496295 2013 AA_{131} 2 7.9 132.°64 7.°9/17.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.75	−16 40.1	3.147	3.746	13.0	21.8
1 12	9 42.09	−17 30.4	3.060	3.759	11.7	21.7
1 22	9 35.94	−18 2.6	2.992	3.771	10.3	21.6
2 1	9 28.71	−18 14.3	2.946	3.783	8.9	21.5
2 11	9 20.97	−18 4.7	2.927	3.795	8.1	21.5
2 21	9 13.38	−17 35.4	2.933	3.806	8.0	21.5
3 2	9 6.55	−16 49.3	2.966	3.817	8.7	21.6
3 12	9 1.02	−15 51.4	3.025	3.827	9.9	21.7

496562 2014 XT_{26} 2 7.9 147.°24 1.°2/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.80	+15 52.0	2.103	2.900	13.4	20.9
1 12	9 43.64	+16 37.4	2.020	2.903	10.3	20.7
1 22	9 37.32	+17 32.4	1.961	2.905	6.6	20.5
2 1	9 29.37	+18 32.2	1.929	2.908	2.8	20.2
2 11	9 20.68	+19 30.7	1.927	2.910	2.1	20.2
2 21	9 12.23	+20 22.4	1.955	2.913	5.9	20.4
3 2	9 4.96	+21 3.2	2.010	2.915	9.6	20.7
3 12	8 59.65	+21 31.0	2.090	2.917	12.8	20.9

357989 2006 DZ_{13} 2 8.0 273.°41 1.°4/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.72	+14 28.0	1.542	2.353	16.8	20.5
1 12	9 45.27	+15 21.4	1.455	2.344	13.0	20.2
1 22	9 38.90	+16 30.9	1.389	2.336	8.5	19.9
2 1	9 30.20	+17 50.5	1.349	2.328	3.5	19.6
2 11	9 20.29	+19 11.2	1.336	2.320	2.6	19.5
2 21	9 10.55	+20 23.9	1.351	2.311	7.6	19.8
3 2	9 2.38	+21 21.6	1.391	2.303	12.4	20.1
3 12	8 56.87	+22 0.9	1.453	2.295	16.6	20.3

318113 2004 JJ_{13} 2 8.0 238.°16 6.°5/14.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.89	− 9 19.8	2.417	3.092	15.0	22.0
1 12	9 42.80	− 9 7.7	2.300	3.077	13.0	21.8
1 22	9 36.76	− 8 31.8	2.203	3.061	10.6	21.6
2 1	9 29.17	− 7 30.2	2.130	3.045	8.2	21.4
2 11	9 20.75	− 6 4.2	2.085	3.028	6.6	21.3
2 21	9 12.33	− 4 18.3	2.069	3.010	7.0	21.3
3 2	9 4.77	− 2 19.4	2.083	2.992	9.1	21.4
3 12	8 58.84	− 0 16.0	2.124	2.973	11.8	21.5

295689 2008 TC_{137} 2 8.0 72.°66 0.°1/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.26	+13 47.4	2.052	2.844	13.9	21.3
1 12	9 43.92	+14 7.5	1.976	2.854	10.7	21.1
1 22	9 37.44	+14 37.5	1.923	2.865	7.0	20.9
2 1	9 29.40	+15 13.6	1.897	2.875	2.9	20.7
2 11	9 20.71	+15 51.0	1.900	2.885	1.3	20.6
2 21	9 12.34	+16 25.3	1.932	2.895	5.4	20.9
3 2	9 5.22	+16 52.6	1.992	2.905	9.2	21.1
3 12	9 0.08	+17 10.8	2.076	2.916	12.4	21.4

404375 2013 GR_{29} 2 8.0 281.°56 4.°1/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.88	+ 3 42.9	1.608	2.383	17.8	21.3
1 12	9 44.42	+ 3 36.4	1.514	2.373	14.5	21.1
1 22	9 38.25	+ 3 50.7	1.440	2.363	10.6	20.8
2 1	9 29.92	+ 4 25.8	1.390	2.354	6.4	20.6
2 11	9 20.44	+ 5 18.3	1.366	2.344	4.1	20.4
2 21	9 11.07	+ 6 22.1	1.369	2.334	6.8	20.5
3 2	9 3.11	+ 7 29.8	1.398	2.325	11.2	20.8
3 12	8 57.58	+ 8 33.8	1.450	2.315	15.3	21.0

424709 2008 SH_{100} 2 8.0 5.°46 9.°4/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.67	+37 44.5	1.748	2.563	14.9	20.5
1 12	9 48.33	+39 6.3	1.688	2.563	12.4	20.3
1 22	9 40.81	+40 20.0	1.651	2.564	10.3	20.2
2 1	9 30.93	+41 15.1	1.638	2.565	9.4	20.1
2 11	9 20.06	+41 42.9	1.651	2.567	10.2	20.2
2 21	9 9.76	+41 39.7	1.688	2.569	12.4	20.3
3 2	9 1.47	+41 6.7	1.748	2.572	14.9	20.5
3 12	8 56.14	+40 9.0	1.826	2.576	17.3	20.7

234150 2000 FO_{14} 2 8.0 120.°39 0.°5/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.81	+13 54.1	1.571	2.372	17.0	21.3
1 12	9 48.09	+14 23.8	1.498	2.381	13.1	21.0
1 22	9 40.51	+15 6.8	1.447	2.391	8.6	20.8
2 1	9 30.79	+15 57.9	1.422	2.400	3.6	20.5
2 11	9 20.13	+16 49.8	1.424	2.409	1.8	20.4
2 21	9 9.90	+17 35.8	1.454	2.417	6.8	20.7
3 2	9 1.42	+18 10.9	1.511	2.425	11.5	21.0
3 12	8 55.59	+18 32.6	1.591	2.433	15.4	21.3

405981 2006 SO_{182} 2 8.0 110.°78 0.°2/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.15	+13 45.5	1.979	2.765	14.5	22.5
1 12	9 46.90	+14 12.9	1.909	2.785	11.2	22.3
1 22	9 39.37	+14 50.6	1.863	2.803	7.3	22.1
2 1	9 30.21	+15 34.2	1.843	2.821	3.0	21.9
2 11	9 20.40	+16 18.3	1.854	2.839	1.4	21.8
2 21	9 11.01	+16 57.9	1.894	2.856	5.6	22.1
3 2	9 3.03	+17 29.2	1.962	2.872	9.5	22.4
3 12	8 57.18	+17 50.2	2.055	2.888	12.8	22.6

28391 1999 LV_{11} 2 8.0 30.°67 9.°1/15.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 44.71	− 9 59.2	1.851	2.549	18.3	17.4
1 12	9 41.41	−10 53.1	1.780	2.564	16.0	17.3
1 22	9 35.91	−11 21.5	1.727	2.580	13.4	17.1
2 1	9 28.80	−11 21.0	1.695	2.596	10.9	17.0
2 11	9 20.99	−10 51.8	1.687	2.613	9.3	16.9
2 21	9 13.49	− 9 57.5	1.705	2.631	9.4	17.0
3 2	9 7.26	− 8 44.7	1.747	2.649	11.0	17.1
3 12	9 3.05	− 7 22.1	1.813	2.667	13.3	17.3

414842 2010 VP_{26} 2 8.0 53.°15 1.°0/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.86	+10 46.4	1.702	2.496	16.2	21.4
1 12	9 44.85	+10 57.8	1.625	2.502	12.7	21.2
1 22	9 38.29	+11 23.5	1.569	2.508	8.5	21.0
2 1	9 29.84	+12 0.2	1.538	2.514	3.9	20.7
2 11	9 20.55	+12 42.8	1.535	2.521	1.5	20.5
2 21	9 11.60	+13 25.4	1.561	2.527	6.0	20.9
3 2	9 4.12	+14 2.9	1.613	2.534	10.4	21.1
3 12	8 58.98	+14 31.6	1.688	2.541	14.1	21.4

497753 2006 SC_{248} 2 8.0 151.°99 0.°7/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.28	+15 21.3	2.527	3.316	11.6	22.0
1 12	9 42.10	+15 53.0	2.440	3.318	8.9	21.8
1 22	9 36.14	+16 32.2	2.378	3.320	5.8	21.6
2 1	9 28.86	+17 15.7	2.344	3.323	2.4	21.4
2 11	9 20.99	+17 59.0	2.341	3.325	1.5	21.4
2 21	9 13.31	+18 38.0	2.367	3.327	4.9	21.6
3 2	9 6.60	+19 9.6	2.422	3.328	8.1	21.8
3 12	9 1.48	+19 31.8	2.503	3.330	10.9	22.0

252914 2002 LK_{49} 2 8.0 228.°92 3.°5/10.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.18	+ 3 57.8	2.084	2.836	15.0	21.6
1 12	9 45.60	+ 3 53.0	1.978	2.824	12.2	21.4
1 22	9 38.73	+ 4 4.5	1.895	2.812	8.9	21.1
2 1	9 30.06	+ 4 31.7	1.837	2.799	5.4	20.9
2 11	9 20.44	+ 5 12.2	1.808	2.786	3.5	20.7
2 21	9 10.87	+ 6 1.4	1.809	2.772	5.8	20.9
3 2	9 2.39	+ 6 54.2	1.838	2.757	9.5	21.0
3 12	8 55.87	+ 7 45.2	1.892	2.741	13.0	21.2

392695 2011 WO_{56} 2 8.0 153.°91 3.°1/ 4.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.78	+25 9.9	3.088	3.887	9.5	21.8
1 12	9 41.48	+26 1.5	3.009	3.891	7.3	21.7
1 22	9 35.61	+26 54.5	2.956	3.895	5.0	21.5
2 1	9 28.61	+27 44.4	2.932	3.898	3.2	21.4
2 11	9 21.11	+28 27.0	2.938	3.902	3.6	21.4
2 21	9 13.78	+28 59.2	2.975	3.905	5.7	21.6
3 2	9 7.29	+29 19.1	3.040	3.908	8.0	21.7
3 12	9 2.19	+29 26.5	3.130	3.911	10.1	21.9

197767 2004 PD_{39} 2 8.0 220.°60 0.°3/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.93	+12 22.0	1.908	2.691	15.1	21.5
1 12	9 47.94	+12 40.5	1.809	2.682	11.8	21.2
1 22	9 40.38	+13 11.4	1.733	2.672	7.9	21.0
2 1	9 30.79	+13 51.4	1.684	2.661	3.4	20.7
2 11	9 20.13	+14 35.3	1.664	2.649	1.4	20.5
2 21	9 9.59	+15 17.4	1.673	2.637	6.0	20.8
3 2	9 0.36	+15 53.1	1.710	2.623	10.4	21.0
3 12	8 53.40	+16 19.0	1.772	2.609	14.3	21.2

1376 Michelle 2 8.0 176.°78 0.°8/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.60	+10 5.6	1.924	2.700	15.2	16.8
1 12	9 47.53	+10 33.9	1.836	2.704	11.9	16.6
1 22	9 39.99	+11 16.8	1.770	2.706	8.0	16.4
2 1	9 30.57	+12 10.7	1.732	2.707	3.6	16.1
2 11	9 20.26	+13 10.2	1.722	2.708	1.4	15.9
2 21	9 10.16	+14 9.0	1.743	2.707	5.8	16.2
3 2	9 1.41	+15 1.5	1.792	2.706	10.0	16.5
3 12	8 54.86	+15 44.1	1.866	2.704	13.6	16.7

293704 2007 QG 2 8.0 143.°28 2.°8/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.96	+ 6 18.6	1.863	2.629	16.0	21.1
1 12	9 46.99	+ 6 16.8	1.781	2.638	12.8	20.9
1 22	9 39.59	+ 6 30.9	1.721	2.646	9.0	20.7
2 1	9 30.39	+ 6 59.5	1.686	2.654	5.0	20.5
2 11	9 20.37	+ 7 38.7	1.681	2.662	2.8	20.3
2 21	9 10.66	+ 8 23.5	1.704	2.669	5.8	20.6
3 2	9 2.34	+ 9 8.4	1.755	2.675	9.8	20.8
3 12	8 56.24	+ 9 48.8	1.831	2.681	13.3	21.0

290319 2005 SP_{204} 2 8.0 228.°59 3.°1/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.84	+ 3 20.1	2.242	2.991	14.1	21.8
1 12	9 43.63	+ 3 31.5	2.136	2.981	11.5	21.6
1 22	9 37.35	+ 3 59.7	2.053	2.969	8.3	21.4
2 1	9 29.46	+ 4 43.7	1.996	2.958	5.0	21.2
2 11	9 20.74	+ 5 40.6	1.968	2.946	3.1	21.0
2 21	9 12.07	+ 6 45.3	1.969	2.933	5.3	21.1
3 2	9 4.38	+ 7 52.4	2.000	2.920	8.8	21.3
3 12	8 58.46	+ 8 56.4	2.057	2.906	12.1	21.5

493777 2015 UQ_{25} 2 8.0 21°.79 0°.2/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.08	+12 8.5	1.251	2.072	19.4	21.1
1 12	9 45.16	+12 46.2	1.181	2.075	15.1	20.9
1 22	9 38.99	+13 43.5	1.130	2.078	9.9	20.6
2 1	9 30.28	+14 54.6	1.103	2.082	4.2	20.3
2 11	9 20.40	+16 10.0	1.100	2.086	1.9	20.1
2 21	9 10.94	+17 19.8	1.124	2.091	7.8	20.5
3 2	9 3.43	+18 16.1	1.172	2.096	13.1	20.8
3 12	8 58.96	+18 54.7	1.240	2.102	17.6	21.1

259748 2003 YM_{170} 2 8.0 86°.04 0°.9/ 7.5 18

1 2	9 54.21	+16 1.3	1.687	2.485	16.1	20.2
1 12	9 48.81	+16 20.5	1.624	2.506	12.4	20.0
1 22	9 40.76	+16 48.8	1.583	2.527	8.0	19.8
2 1	9 30.84	+17 21.3	1.569	2.548	3.3	19.5
2 11	9 20.22	+17 52.0	1.583	2.568	1.9	19.5
2 21	9 10.19	+18 16.0	1.626	2.588	6.5	19.8
3 2	9 1.89	+18 30.2	1.696	2.607	10.6	20.1
3 12	8 56.10	+18 33.3	1.790	2.627	14.2	20.4

355819 2008 TB_{83} 2 8.0 64°.11 1°.8/ 7.0 18

1 2	9 53.53	+16 12.9	1.299	2.118	18.9	21.3
1 12	9 48.96	+16 55.8	1.248	2.141	14.5	21.0
1 22	9 41.16	+17 51.2	1.216	2.164	9.3	20.8
2 1	9 31.06	+18 51.3	1.209	2.188	3.9	20.6
2 11	9 20.15	+19 46.9	1.229	2.212	2.9	20.6
2 21	9 10.03	+20 30.4	1.275	2.236	7.9	20.9
3 2	9 2.07	+20 57.7	1.346	2.259	12.6	21.3
3 12	8 57.16	+21 8.0	1.438	2.283	16.6	21.6

65538 7561 P–L 2 8.0 190°.11 4°.5/ 4.2 18

1 2	9 53.81	+28 22.9	2.444	3.240	11.8	20.3
1 12	9 48.11	+29 10.9	2.361	3.239	9.2	20.1
1 22	9 40.18	+29 58.3	2.304	3.237	6.6	20.0
2 1	9 30.61	+30 38.9	2.275	3.235	4.7	19.8
2 11	9 20.31	+31 7.1	2.276	3.232	5.2	19.9
2 21	9 10.29	+31 19.5	2.306	3.228	7.5	20.0
3 2	9 1.52	+31 14.8	2.364	3.224	10.2	20.2
3 12	8 54.76	+30 54.3	2.446	3.220	12.7	20.3

102154 1999 RK_{203} 2 8.0 45°.39 4°.5/ 9.9 18

1 2	9 55.42	+ 7 30.0	1.432	2.215	19.2	18.9
1 12	9 50.21	+ 6 24.8	1.361	2.226	15.4	18.7
1 22	9 41.95	+ 5 34.0	1.311	2.238	11.1	18.4
2 1	9 31.43	+ 4 58.7	1.284	2.250	6.6	18.2
2 11	9 19.98	+ 4 38.0	1.285	2.262	4.5	18.1
2 21	9 9.08	+ 4 29.4	1.312	2.275	7.5	18.3
3 2	9 0.10	+ 4 28.9	1.365	2.288	11.7	18.6
3 12	8 53.99	+ 4 31.8	1.440	2.301	15.7	18.9

187830 1999 VG_{61} 2 8.0 180°.39 1°.8/ 9.2 18

1 2	9 53.25	+ 8 12.9	1.833	2.605	16.0	21.7
1 12	9 48.16	+ 8 28.2	1.744	2.607	12.7	21.4
1 22	9 40.48	+ 8 59.5	1.677	2.608	8.7	21.2
2 1	9 30.83	+ 9 44.3	1.636	2.608	4.3	20.9
2 11	9 20.21	+10 37.5	1.624	2.608	2.0	20.8
2 21	9 9.81	+11 33.2	1.641	2.606	5.9	21.0
3 2	9 0.81	+12 25.6	1.686	2.604	10.3	21.3
3 12	8 54.13	+13 9.9	1.756	2.601	14.1	21.5

207958 1995 NA_{1} 2 8.0 228°.01 0°.9/ 7.4 18

1 2	9 49.92	+13 47.1	1.870	2.665	14.9	21.5
1 12	9 45.71	+14 36.5	1.776	2.656	11.6	21.3
1 22	9 38.97	+15 39.7	1.704	2.647	7.6	21.0
2 1	9 30.23	+16 51.9	1.659	2.637	3.1	20.7
2 11	9 20.44	+18 5.8	1.643	2.627	1.9	20.6
2 21	9 10.76	+19 14.2	1.656	2.617	6.5	20.9
3 2	9 2.37	+20 11.2	1.697	2.606	10.8	21.1
3 12	8 56.21	+20 53.3	1.762	2.594	14.6	21.3

209719 2005 EX_{129} 2 8.0 112°.70 0°.9/ 8.7 18

1 2	9 49.88	+ 9 17.0	1.730	2.516	16.3	21.4
1 12	9 45.58	+ 9 54.2	1.655	2.528	12.7	21.2
1 22	9 38.76	+10 48.4	1.602	2.539	8.5	20.9
2 1	9 30.07	+11 55.3	1.575	2.550	3.9	20.7
2 11	9 20.55	+13 8.3	1.576	2.561	1.5	20.5
2 21	9 11.38	+14 19.9	1.606	2.572	6.0	20.8
3 2	9 3.68	+15 23.7	1.664	2.582	10.3	21.1
3 12	8 58.30	+16 15.3	1.745	2.592	14.0	21.4

84281 2002 TS_{22} 2 8.0 70°.66 0°.9/ 8.6 18

1 2	9 50.81	+11 3.8	1.628	2.422	16.8	20.6
1 12	9 46.32	+11 19.1	1.562	2.440	13.1	20.4
1 22	9 39.22	+11 48.7	1.518	2.458	8.7	20.2
2 1	9 30.24	+12 28.8	1.499	2.475	3.9	19.9
2 11	9 20.51	+13 13.7	1.508	2.493	1.5	19.8
2 21	9 11.28	+13 57.2	1.545	2.511	6.1	20.1
3 2	9 3.69	+14 34.4	1.609	2.529	10.5	20.4
3 12	8 58.53	+15 1.7	1.696	2.547	14.2	20.7

264576 2001 TV_{118} 2 8.0 90°.75 2°.0/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.07	+ 9 35.5	1.922	2.693	15.4	20.3
1 12	9 48.36	+ 9 17.0	1.852	2.714	12.1	20.1
1 22	9 40.32	+ 9 10.1	1.804	2.734	8.3	19.9
2 1	9 30.64	+ 9 13.3	1.783	2.755	4.2	19.7
2 11	9 20.35	+ 9 23.4	1.791	2.774	2.2	19.6
2 21	9 10.53	+ 9 36.9	1.829	2.794	5.5	19.9
3 2	9 2.19	+ 9 50.4	1.895	2.813	9.3	20.2
3 12	8 56.05	+10 0.9	1.986	2.832	12.6	20.4

459529 2013 EY_{152} 2 8.0 17°.14 4°.8/ 5.8 16

1 2	9 49.81	+23 0.0	1.110	1.955	19.6	20.9
1 12	9 46.89	+23 37.6	1.054	1.961	15.1	20.6
1 22	9 40.25	+24 20.9	1.017	1.969	10.1	20.4
2 1	9 30.82	+25 0.4	1.002	1.977	5.6	20.1
2 11	9 20.28	+25 25.9	1.011	1.987	5.7	20.2
2 21	9 10.51	+25 31.1	1.044	1.999	10.2	20.5
3 2	9 3.19	+25 14.6	1.099	2.011	15.0	20.8
3 12	8 59.31	+24 38.7	1.173	2.024	19.1	21.0

417141 2005 VF_{81} 2 8.0 333°.48 7°.7/12.7 18

1 2	9 46.53	− 3 2.5	1.708	2.450	18.2	20.3
1 12	9 43.22	− 3 58.0	1.616	2.442	15.5	20.1
1 22	9 37.39	− 4 32.5	1.543	2.434	12.4	19.9
2 1	9 29.58	− 4 42.7	1.492	2.427	9.4	19.7
2 11	9 20.74	− 4 28.1	1.466	2.420	7.7	19.6
2 21	9 12.02	− 3 51.5	1.466	2.414	8.6	19.6
3 2	9 4.59	− 2 58.8	1.491	2.408	11.4	19.8
3 12	8 59.41	− 1 57.8	1.540	2.403	14.7	20.0

415156 2012 FQ_{25} 2 8.0 39°.37 12°.0/ 1.5 18

1 2	10 6.26	+45 11.5	1.652	2.441	16.8	20.6
1 12	9 59.18	+46 17.5	1.600	2.446	14.6	20.5
1 22	9 48.02	+47 6.9	1.568	2.451	12.7	20.4
2 1	9 33.97	+47 27.2	1.560	2.457	12.0	20.3
2 11	9 19.00	+47 9.9	1.576	2.463	12.6	20.4
2 21	9 5.26	+46 14.1	1.615	2.469	14.3	20.5
3 2	8 54.48	+44 45.2	1.677	2.476	16.6	20.7
3 12	8 47.58	+42 52.4	1.758	2.482	18.7	20.9

68728 2002 EP_{6} 2 8.0 320°.49 0°.0/ 7.8 18

1 2	9 47.92	+13 31.9	1.355	2.173	18.3	19.9
1 12	9 45.06	+13 46.5	1.267	2.160	14.3	19.6
1 22	9 39.01	+14 16.6	1.199	2.147	9.5	19.3
2 1	9 30.38	+14 58.2	1.155	2.134	4.1	18.9
2 11	9 20.39	+15 44.3	1.136	2.122	1.8	18.7
2 21	9 10.56	+16 27.3	1.143	2.110	7.6	19.1
3 2	9 2.48	+17 0.8	1.174	2.099	13.0	19.3
3 12	8 57.33	+17 20.7	1.226	2.089	17.7	19.6

403811 2011 UX_{116} 2 8.0 27°.35 0°.0/ 8.1 18

1 2	9 48.25	+12 56.0	1.219	2.043	19.6	20.9
1 12	9 45.22	+13 12.0	1.157	2.052	15.2	20.6
1 22	9 38.94	+13 44.5	1.115	2.063	10.0	20.4
2 1	9 30.24	+14 28.6	1.095	2.074	4.2	20.1
2 11	9 20.52	+15 16.3	1.100	2.086	1.7	19.9
2 21	9 11.38	+15 59.9	1.131	2.099	7.5	20.3
3 2	9 4.29	+16 33.1	1.186	2.113	12.7	20.6
3 12	9 0.22	+16 52.6	1.261	2.127	17.1	20.9

282449 2004 BS_{100} 2 8.0 295°.79 2°.1/ 5.8 17

1 2	9 45.04	+15 49.3	2.165	2.966	12.9	20.3
1 12	9 41.68	+17 19.6	2.070	2.956	9.9	20.1
1 22	9 36.20	+19 3.1	2.000	2.946	6.4	19.8
2 1	9 29.04	+20 53.5	1.959	2.936	2.9	19.6
2 11	9 20.99	+22 42.5	1.948	2.927	3.0	19.6
2 21	9 13.00	+24 22.2	1.968	2.917	6.6	19.8
3 2	9 6.03	+25 46.5	2.015	2.908	10.2	20.0
3 12	9 0.90	+26 51.9	2.087	2.899	13.4	20.2

169204 2001 RO_{82} 2 8.0 172°.38 4°.5/12.7 18

1 2	9 44.89	− 2 55.0	2.734	3.444	12.7	20.6
1 12	9 40.90	− 2 53.3	2.637	3.446	10.6	20.5
1 22	9 35.32	− 2 35.0	2.561	3.448	8.2	20.3
2 1	9 28.56	− 2 0.1	2.512	3.449	5.9	20.2
2 11	9 21.24	− 1 10.6	2.491	3.450	4.5	20.1
2 21	9 14.04	− 0 9.9	2.500	3.451	5.2	20.1
3 2	9 7.66	+ 0 57.5	2.538	3.452	7.4	20.3
3 12	9 2.66	+ 2 6.3	2.603	3.452	9.9	20.4

456235 2006 KL_{117} 2 8.0 111°.56 1°.5/ 9.3 18

1 2	9 49.65	+ 6 5.5	1.877	2.646	15.8	21.0
1 12	9 45.17	+ 7 1.3	1.803	2.664	12.4	20.8
1 22	9 38.38	+ 8 16.5	1.751	2.682	8.5	20.6
2 1	9 29.90	+ 9 46.6	1.726	2.699	4.1	20.4
2 11	9 20.68	+11 24.6	1.731	2.716	1.7	20.3
2 21	9 11.79	+13 2.3	1.766	2.732	5.5	20.6
3 2	9 4.26	+14 32.2	1.830	2.747	9.6	20.8
3 12	8 58.85	+15 49.2	1.918	2.762	13.1	21.1

424649 2008 PG_{20} 2 8.0 171.°65 2.°9/ 5.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.31	+22 16.0	2.733	3.526	10.7	22.4
1 12	9 44.40	+23 20.3	2.650	3.530	8.2	22.2
1 22	9 37.66	+24 28.5	2.593	3.534	5.5	22.1
2 1	9 29.56	+25 35.5	2.566	3.537	3.2	21.9
2 11	9 20.82	+26 35.7	2.570	3.539	3.5	21.9
2 21	9 12.25	+27 24.9	2.604	3.541	6.0	22.1
3 2	9 4.64	+28 0.3	2.668	3.541	8.7	22.3
3 12	8 58.64	+28 21.4	2.756	3.542	11.2	22.4

275336 2010 WF_{10} 2 8.0 123.°28 0.°5/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.13	+14 19.8	2.002	2.791	14.3	21.7
1 12	9 46.21	+14 47.9	1.926	2.803	11.0	21.5
1 22	9 39.01	+15 26.1	1.874	2.815	7.1	21.3
2 1	9 30.15	+16 10.0	1.849	2.827	3.0	21.1
2 11	9 20.59	+16 54.1	1.853	2.838	1.5	21.0
2 21	9 11.37	+17 33.4	1.887	2.848	5.7	21.3
3 2	9 3.50	+18 4.2	1.949	2.859	9.5	21.6
3 12	8 57.72	+18 24.3	2.035	2.868	12.9	21.8

193860 2001 QT_{133} 2 8.0 115.°58 3.°3/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.83	+ 4 45.8	1.766	2.526	17.0	20.8
1 12	9 48.43	+ 4 43.7	1.695	2.547	13.6	20.7
1 22	9 40.52	+ 4 59.6	1.645	2.566	9.6	20.5
2 1	9 30.79	+ 5 31.8	1.620	2.585	5.6	20.3
2 11	9 20.32	+ 6 16.4	1.624	2.603	3.4	20.2
2 21	9 10.30	+ 7 7.6	1.657	2.621	6.1	20.4
3 2	9 1.82	+ 7 59.4	1.717	2.637	9.9	20.6
3 12	8 55.70	+ 8 46.7	1.803	2.653	13.5	20.9

425995 2011 HX_{97} 2 8.0 172.°86 1.°5/ 6.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.34	+17 52.1	2.733	3.521	10.9	21.6
1 12	9 42.83	+18 37.4	2.645	3.524	8.3	21.4
1 22	9 36.60	+19 28.9	2.583	3.526	5.4	21.2
2 1	9 29.11	+20 22.4	2.551	3.528	2.4	21.0
2 11	9 21.03	+21 13.4	2.549	3.529	2.1	21.0
2 21	9 13.11	+21 57.8	2.578	3.530	5.0	21.2
3 2	9 6.10	+22 32.6	2.636	3.531	8.0	21.4
3 12	9 0.61	+22 56.3	2.720	3.531	10.6	21.6

491274 2011 UU_{335} 2 8.0 173.°29 1.°5/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.23	+ 8 4.2	1.967	2.737	15.1	22.0
1 12	9 46.42	+ 8 29.3	1.879	2.741	12.0	21.8
1 22	9 39.26	+ 9 10.3	1.812	2.744	8.2	21.6
2 1	9 30.31	+10 4.1	1.773	2.746	4.0	21.3
2 11	9 20.51	+11 5.7	1.763	2.747	1.7	21.1
2 21	9 10.91	+12 9.0	1.783	2.748	5.5	21.4
3 2	9 2.59	+13 8.2	1.831	2.748	9.6	21.6
3 12	8 56.38	+13 58.9	1.904	2.747	13.2	21.9

135474 2001 WE_{26} 2 8.0 154.°41 0.°0/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.88	+13 22.1	2.823	3.599	10.9	21.2
1 12	9 42.35	+13 46.0	2.736	3.605	8.4	21.0
1 22	9 36.22	+14 17.6	2.673	3.611	5.5	20.9
2 1	9 28.93	+14 54.0	2.640	3.617	2.3	20.7
2 11	9 21.13	+15 31.7	2.637	3.622	1.0	20.6
2 21	9 13.51	+16 7.4	2.665	3.627	4.2	20.8
3 2	9 6.75	+16 38.0	2.723	3.632	7.2	21.0
3 12	9 1.42	+17 1.5	2.807	3.636	9.8	21.2

41845 2000 WW_{83} 2 8.0 308.°51 1.°5/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.80	+17 41.1	1.881	2.685	14.5	19.1
1 12	9 45.52	+18 3.1	1.795	2.681	11.2	18.9
1 22	9 38.77	+18 33.0	1.731	2.676	7.3	18.7
2 1	9 30.13	+19 6.1	1.694	2.672	3.1	18.4
2 11	9 20.61	+19 36.8	1.685	2.668	2.3	18.3
2 21	9 11.35	+20 0.3	1.705	2.665	6.5	18.6
3 2	9 3.46	+20 13.2	1.752	2.661	10.5	18.8
3 12	8 57.81	+20 14.2	1.823	2.657	14.1	19.0

111297 2001 XH_{55} 2 8.0 199.°61 7.°8/29.0 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.52	+41 17.8	2.771	3.558	10.8	19.3
1 12	9 46.65	+43 1.4	2.707	3.555	9.2	19.2
1 22	9 39.43	+44 38.1	2.669	3.552	8.1	19.2
2 1	9 30.41	+45 59.9	2.659	3.549	7.9	19.1
2 11	9 20.49	+47 0.6	2.676	3.546	8.7	19.2
2 21	9 10.72	+47 36.6	2.720	3.543	10.1	19.3
3 2	9 2.15	+47 47.7	2.786	3.539	11.8	19.4
3 12	8 55.65	+47 36.5	2.872	3.535	13.3	19.5

492547 2014 OM_{110} 2 8.0 220.°28 1.°6/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.65	+16 55.3	1.898	2.694	14.7	22.8
1 12	9 47.82	+17 34.7	1.804	2.686	11.4	22.5
1 22	9 40.37	+18 24.1	1.733	2.677	7.4	22.3
2 1	9 30.86	+19 18.3	1.689	2.667	3.2	22.0
2 11	9 20.30	+20 10.4	1.674	2.656	2.5	21.9
2 21	9 9.89	+20 54.4	1.689	2.645	6.8	22.2
3 2	9 0.84	+21 25.9	1.731	2.634	11.0	22.4
3 12	8 54.10	+21 42.9	1.796	2.621	14.7	22.6

239894 2000 RD_{75} 2 8.0 200.°63 3.°5/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 45.25	+ 1 11.0	2.825	3.554	12.0	21.0
1 12	9 41.16	+ 1 8.6	2.723	3.551	9.8	20.9
1 22	9 35.49	+ 1 19.9	2.645	3.548	7.3	20.7
2 1	9 28.66	+ 1 44.4	2.593	3.544	4.8	20.5
2 11	9 21.26	+ 2 20.2	2.571	3.541	3.5	20.4
2 21	9 13.97	+ 3 4.2	2.579	3.537	4.7	20.5
3 2	9 7.46	+ 3 52.8	2.616	3.532	7.1	20.7
3 12	9 2.28	+ 4 41.8	2.680	3.528	9.7	20.8

39230 2000 YZ_{37} 2 8.0 143.°70 0.°3/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.79	+11 36.4	2.017	2.797	14.5	19.3
1 12	9 46.73	+12 8.0	1.938	2.808	11.3	19.1
1 22	9 39.37	+12 52.1	1.882	2.819	7.4	18.9
2 1	9 30.34	+13 44.7	1.853	2.829	3.2	18.6
2 11	9 20.56	+14 40.3	1.853	2.839	1.2	18.5
2 21	9 11.09	+15 33.2	1.884	2.848	5.5	18.8
3 2	9 2.93	+16 18.8	1.943	2.856	9.4	19.0
3 12	8 56.86	+16 54.0	2.028	2.863	12.8	19.3

231410 2007 BC_{76} 2 8.0 245.°89 0.°2/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.92	+12 7.7	1.669	2.464	16.4	21.0
1 12	9 46.89	+12 50.0	1.570	2.450	12.9	20.7
1 22	9 40.01	+13 49.3	1.493	2.435	8.5	20.4
2 1	9 30.80	+15 1.3	1.441	2.419	3.6	20.1
2 11	9 20.30	+16 18.4	1.418	2.404	1.7	19.9
2 21	9 9.83	+17 32.2	1.424	2.387	6.9	20.2
3 2	9 0.76	+18 35.5	1.456	2.370	11.8	20.4
3 12	8 54.21	+19 23.8	1.511	2.352	16.1	20.6

37337 2001 RH_{72} 2 8.0 64.°24 6.°8/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.74	− 8 0.0	2.298	2.990	15.3	18.7
1 12	9 41.07	− 8 21.3	2.215	3.001	13.1	18.6
1 22	9 35.55	− 8 21.2	2.152	3.013	10.7	18.4
2 1	9 28.70	− 7 58.5	2.112	3.025	8.4	18.3
2 11	9 21.26	− 7 14.2	2.099	3.037	7.0	18.2
2 21	9 14.03	− 6 12.0	2.113	3.049	7.2	18.3
3 2	9 7.81	− 4 57.5	2.155	3.061	9.0	18.4
3 12	9 3.23	− 3 37.4	2.222	3.073	11.2	18.6

394805 2008 RY_{77} 2 8.0 129.°12 0.°3/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.15	+14 0.6	1.737	2.526	16.1	22.0
1 12	9 49.61	+14 23.8	1.664	2.541	12.4	21.8
1 22	9 41.39	+14 58.4	1.614	2.555	8.1	21.5
2 1	9 31.21	+15 39.6	1.591	2.569	3.4	21.3
2 11	9 20.22	+16 21.3	1.597	2.582	1.6	21.2
2 21	9 9.69	+16 58.0	1.632	2.594	6.3	21.5
3 2	9 0.81	+17 25.5	1.694	2.605	10.6	21.8
3 12	8 54.42	+17 41.7	1.780	2.616	14.3	22.0

385422 2003 DF_{4} 2 8.0 320.°60 0.°9/ 8.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.16	+ 5 34.5	2.046	2.820	14.5	20.3
1 12	9 40.36	+ 6 59.3	1.937	2.803	11.5	20.1
1 22	9 35.43	+ 8 47.6	1.852	2.786	7.8	19.8
2 1	9 28.78	+10 55.4	1.794	2.769	3.7	19.5
2 11	9 21.18	+13 15.2	1.767	2.753	1.3	19.3
2 21	9 13.56	+15 37.1	1.771	2.737	5.5	19.6
3 2	9 6.90	+17 51.2	1.805	2.722	9.8	19.8
3 12	9 2.09	+19 49.8	1.865	2.707	13.5	20.0

347552 2000 SB_{302} 2 8.0 83.°09 2.°1/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.40	+ 8 6.3	1.584	2.366	17.7	21.1
1 12	9 48.29	+ 8 14.4	1.523	2.391	13.9	20.9
1 22	9 40.50	+ 8 39.5	1.483	2.416	9.5	20.7
2 1	9 30.81	+ 9 18.5	1.469	2.441	4.8	20.5
2 11	9 20.42	+10 5.9	1.482	2.466	2.2	20.4
2 21	9 10.62	+10 55.2	1.523	2.490	6.1	20.7
3 2	9 2.56	+11 40.7	1.591	2.513	10.4	21.0
3 12	8 57.04	+12 18.0	1.683	2.536	14.2	21.3

194548 2001 XC_{72} 2 8.0 4.°36 3.°2/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 38.99	+ 4 54.1	0.987	1.818	22.6	18.5
1 12	9 38.73	+ 5 15.9	0.922	1.816	18.2	18.3
1 22	9 35.10	+ 6 10.3	0.873	1.816	12.8	18.0
2 1	9 28.80	+ 7 35.1	0.845	1.819	6.9	17.6
2 11	9 21.21	+ 9 20.9	0.838	1.823	3.3	17.4
2 21	9 14.04	+11 13.9	0.855	1.829	7.9	17.7
3 2	9 8.93	+12 59.6	0.894	1.836	13.7	18.1
3 12	9 7.01	+14 27.1	0.952	1.846	18.8	18.4

365687 2010 VP_{104} 2 8.0 115.°54 3.°3/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.19	+21 44.2	2.073	2.874	13.4	21.0
1 12	9 47.02	+22 48.5	2.007	2.892	10.2	20.8
1 22	9 39.55	+23 57.6	1.967	2.909	6.8	20.6
2 1	9 30.41	+25 4.6	1.954	2.927	3.8	20.4
2 11	9 20.59	+26 2.5	1.971	2.943	4.1	20.5
2 21	9 11.16	+26 46.3	2.018	2.959	7.1	20.7
3 2	9 3.14	+27 13.3	2.092	2.975	10.4	20.9
3 12	8 57.27	+27 23.7	2.189	2.990	13.2	21.1

218266 2003 CQ_6 2 8.0 317°.40 3°.3/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.06	+20 17.0	1.272	2.103	18.5	20.1
1 12	9 47.84	+20 46.4	1.189	2.089	14.4	19.8
1 22	9 41.05	+21 25.3	1.125	2.076	9.6	19.5
2 1	9 31.34	+22 6.1	1.086	2.063	4.6	19.2
2 11	9 20.12	+22 39.7	1.071	2.051	4.3	19.1
2 21	9 9.17	+22 58.3	1.081	2.040	9.4	19.3
3 2	9 0.27	+22 57.9	1.115	2.029	14.6	19.6
3 12	8 54.68	+22 38.7	1.168	2.019	19.3	19.8

72433 2001 CT_{42} 2 8.0 41°.77 0°.3/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.81	+10 54.8	1.315	2.129	19.0	19.0
1 12	9 44.65	+11 34.2	1.254	2.144	14.7	18.8
1 22	9 38.47	+12 32.8	1.213	2.158	9.7	18.5
2 1	9 30.06	+13 44.8	1.196	2.174	4.2	18.2
2 11	9 20.73	+15 1.3	1.204	2.190	1.6	18.1
2 21	9 11.94	+16 13.0	1.239	2.206	7.1	18.5
3 2	9 5.03	+17 12.4	1.299	2.224	12.1	18.8
3 12	9 0.92	+17 55.5	1.381	2.241	16.2	19.1

217060 2001 RP_{95} 2 8.0 26°.37 8°.2/15.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 40.75	−10 37.4	1.095	1.850	25.5	19.1
1 12	9 39.71	− 9 47.0	1.030	1.862	21.8	18.9
1 22	9 35.51	− 8 5.1	0.980	1.876	17.3	18.6
2 1	9 28.90	− 5 30.6	0.949	1.890	12.4	18.4
2 11	9 21.20	− 2 12.3	0.941	1.907	8.7	18.3
2 21	9 13.97	+ 1 30.8	0.958	1.924	9.0	18.3
3 2	9 8.68	+ 5 15.2	1.002	1.943	12.8	18.6
3 12	9 6.34	+ 8 39.8	1.069	1.962	17.3	18.9

52132 5034 *P–L* 2 8.0 46°.84 7°.3/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.00	− 3 49.5	1.428	2.179	20.7	18.5
1 12	9 44.39	− 4 14.1	1.372	2.205	17.3	18.3
1 22	9 38.08	− 4 9.8	1.333	2.230	13.4	18.1
2 1	9 29.83	− 3 35.7	1.316	2.257	9.7	18.0
2 11	9 20.85	− 2 35.1	1.323	2.284	7.4	17.9
2 21	9 12.43	− 1 15.5	1.356	2.311	8.3	18.1
3 2	9 5.73	+ 0 13.3	1.414	2.339	11.3	18.3
3 12	9 1.56	+ 1 41.6	1.495	2.366	14.6	18.6

176797 2002 TY_2 2 8.0 71°.57 2°.1/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.75	+ 7 41.5	1.686	2.470	16.7	20.2
1 12	9 44.82	+ 7 51.7	1.608	2.477	13.2	20.0
1 22	9 38.36	+ 8 19.1	1.550	2.484	9.1	19.7
2 1	9 29.99	+ 9 1.2	1.518	2.490	4.7	19.5
2 11	9 20.75	+ 9 53.1	1.513	2.497	2.3	19.3
2 21	9 11.84	+10 48.4	1.537	2.504	6.0	19.6
3 2	9 4.38	+11 40.9	1.587	2.511	10.3	19.9
3 12	8 59.24	+12 25.7	1.660	2.518	14.1	20.1

86745 2000 GJ_{57} 2 8.0 158°.86 2°.6/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.20	+ 5 38.1	1.974	2.733	15.5	19.8
1 12	9 47.12	+ 5 48.1	1.888	2.741	12.4	19.6
1 22	9 39.69	+ 6 14.6	1.825	2.748	8.7	19.4
2 1	9 30.52	+ 6 55.9	1.787	2.755	4.8	19.2
2 11	9 20.54	+ 7 47.6	1.779	2.760	2.7	19.0
2 21	9 10.82	+ 8 44.5	1.800	2.765	5.6	19.2
3 2	9 2.39	+ 9 40.7	1.850	2.769	9.4	19.5
3 12	8 56.06	+10 31.4	1.926	2.772	12.9	19.7

129332 Markhunten 2 8.0 181°.54 6°.1/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.17	+30 41.1	2.028	2.834	13.5	19.9
1 12	9 48.91	+31 42.0	1.954	2.835	10.7	19.7
1 22	9 40.99	+32 41.1	1.904	2.835	7.9	19.5
2 1	9 31.09	+33 30.2	1.882	2.835	6.2	19.4
2 11	9 20.31	+34 2.0	1.887	2.835	6.8	19.5
2 21	9 9.92	+34 12.4	1.920	2.834	9.3	19.6
3 2	9 1.11	+34 0.9	1.979	2.833	12.2	19.8
3 12	8 54.75	+33 29.8	2.059	2.832	14.9	20.0

382710 2002 WP_{25} 2 8.0 90°.82 4°.5/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.51	+ 0 23.2	2.320	3.055	14.1	20.9
1 12	9 42.42	+ 0 4.5	2.231	3.060	11.6	20.7
1 22	9 36.45	+ 0 1.8	2.164	3.066	8.8	20.5
2 1	9 29.11	+ 0 15.3	2.123	3.071	6.0	20.3
2 11	9 21.14	+ 0 43.1	2.110	3.076	4.5	20.3
2 21	9 13.36	+ 1 22.1	2.126	3.082	5.7	20.3
3 2	9 6.59	+ 2 7.6	2.170	3.087	8.3	20.5
3 12	9 1.47	+ 2 54.9	2.239	3.092	11.1	20.7

429254 2010 BU_{63} 2 8.1 205°.15 4°.0/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.45	− 4 21.9	3.217	3.908	11.3	22.1
1 12	9 40.39	− 4 0.0	3.106	3.903	9.5	21.9
1 22	9 34.93	− 3 22.0	3.018	3.897	7.4	21.8
2 1	9 28.44	− 2 28.4	2.957	3.890	5.3	21.6
2 11	9 21.43	− 1 20.9	2.925	3.883	4.0	21.5
2 21	9 14.49	− 0 3.2	2.925	3.875	4.6	21.6
3 2	9 8.19	+ 1 20.3	2.955	3.867	6.6	21.7
3 12	9 3.06	+ 2 44.8	3.015	3.859	8.8	21.8

194467 2001 WU_{11} 2 8.1 353°.79 0°.3/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.69	+11 29.2	1.251	2.072	19.3	20.0
1 12	9 44.20	+11 56.4	1.176	2.069	15.2	19.8
1 22	9 38.48	+12 43.6	1.119	2.066	10.1	19.5
2 1	9 30.21	+13 46.0	1.086	2.064	4.4	19.1
2 11	9 20.68	+14 55.3	1.077	2.063	1.7	18.9
2 21	9 11.47	+16 1.8	1.094	2.062	7.6	19.3
3 2	9 4.14	+16 57.4	1.135	2.062	13.1	19.6
3 12	8 59.82	+17 37.0	1.196	2.063	17.7	19.9

462690 2009 VW_{16} 2 8.1 220°.07 5°.4/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.85	− 2 30.5	2.470	3.180	13.9	21.6
1 12	9 44.23	− 3 0.9	2.364	3.172	11.7	21.4
1 22	9 37.69	− 3 15.5	2.279	3.163	9.2	21.2
2 1	9 29.69	− 3 12.8	2.220	3.154	6.8	21.0
2 11	9 20.92	− 2 53.6	2.189	3.144	5.4	20.9
2 21	9 12.21	− 2 20.2	2.187	3.133	6.3	21.0
3 2	9 4.40	− 1 36.5	2.214	3.122	8.6	21.1
3 12	8 58.19	− 0 47.7	2.267	3.111	11.3	21.2

253198 2002 XO_{60} 2 8.1 67°.62 4°.5/10.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.44	+ 3 21.0	1.682	2.447	17.5	20.0
1 12	9 46.02	+ 2 53.7	1.609	2.460	14.2	19.8
1 22	9 39.08	+ 2 45.0	1.557	2.474	10.4	19.6
2 1	9 30.28	+ 2 54.8	1.529	2.488	6.6	19.4
2 11	9 20.70	+ 3 20.6	1.527	2.502	4.5	19.3
2 21	9 11.51	+ 3 57.7	1.554	2.516	6.6	19.5
3 2	9 3.83	+ 4 40.2	1.607	2.530	10.3	19.7
3 12	8 58.49	+ 5 22.2	1.683	2.544	13.8	19.9

354502 2004 PN_{13} 2 8.1 124°.32 0°.2/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.87	+12 32.4	1.770	2.558	15.9	21.9
1 12	9 47.84	+13 11.5	1.698	2.574	12.3	21.7
1 22	9 40.24	+14 4.2	1.648	2.589	8.0	21.5
2 1	9 30.77	+15 5.2	1.625	2.603	3.4	21.3
2 11	9 20.50	+16 7.8	1.632	2.617	1.5	21.2
2 21	9 10.63	+17 5.4	1.667	2.630	6.2	21.5
3 2	9 2.30	+17 52.7	1.730	2.642	10.4	21.8
3 12	8 56.35	+18 27.0	1.817	2.654	14.0	22.0

5572 Bliskunov 2 8.1 240°.53 3°.0/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.12	+ 2 49.7	2.716	3.456	12.1	18.1
1 12	9 41.20	+ 2 54.8	2.609	3.446	9.9	17.9
1 22	9 35.62	+ 3 13.7	2.524	3.435	7.2	17.7
2 1	9 28.79	+ 3 45.6	2.466	3.424	4.5	17.5
2 11	9 21.32	+ 4 28.2	2.438	3.413	3.0	17.4
2 21	9 13.91	+ 5 18.2	2.439	3.401	4.6	17.5
3 2	9 7.28	+ 6 11.4	2.471	3.389	7.4	17.6
3 12	9 2.04	+ 7 3.7	2.529	3.377	10.2	17.8

216412 2008 RF_{54} 2 8.1 129°.84 1°.5/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.94	+ 9 25.2	2.153	2.927	13.9	20.6
1 12	9 44.44	+ 9 28.2	2.068	2.932	10.9	20.4
1 22	9 37.85	+ 9 43.0	2.005	2.937	7.5	20.2
2 1	9 29.74	+10 7.6	1.969	2.942	3.7	20.0
2 11	9 20.94	+10 38.5	1.962	2.947	1.7	19.8
2 21	9 12.38	+11 11.5	1.985	2.951	5.0	20.1
3 2	9 4.97	+11 42.7	2.037	2.955	8.7	20.3
3 12	8 59.43	+12 8.7	2.113	2.959	11.9	20.5

138606 2000 QR_{179} 2 8.1 145°.49 1°.8/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.90	+19 48.6	2.739	3.531	10.8	20.3
1 12	9 43.26	+20 21.4	2.657	3.537	8.2	20.1
1 22	9 36.89	+20 58.4	2.601	3.543	5.3	20.0
2 1	9 29.30	+21 35.7	2.573	3.549	2.5	19.8
2 11	9 21.17	+22 9.1	2.576	3.555	2.3	19.8
2 21	9 13.27	+22 35.4	2.609	3.560	5.1	20.0
3 2	9 6.31	+22 52.3	2.671	3.565	8.0	20.2
3 12	9 0.89	+22 59.0	2.759	3.570	10.5	20.3

267425 2002 CA_{56} 2 8.1 301°.24 5°.3/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.26	− 4 22.4	1.888	2.619	17.0	20.0
1 12	9 41.50	− 3 46.3	1.768	2.591	14.4	19.7
1 22	9 36.39	− 2 40.3	1.666	2.564	11.2	19.4
2 1	9 29.32	− 1 2.9	1.589	2.537	7.7	19.2
2 11	9 21.09	+ 1 2.7	1.540	2.509	5.4	19.0
2 21	9 12.71	+ 3 28.8	1.519	2.482	6.7	19.0
3 2	9 5.33	+ 6 4.2	1.528	2.455	10.4	19.1
3 12	8 59.95	+ 8 37.0	1.563	2.428	14.4	19.3

163508 2002 SE_{59} 2 8.1 104°.47 3°.1/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.75	+24 31.7	2.543	3.338	11.4	20.2
1 12	9 46.23	+25 9.9	2.478	3.358	8.7	20.1
1 22	9 38.82	+25 49.1	2.439	3.378	5.9	19.9
2 1	9 30.09	+26 24.3	2.429	3.398	3.5	19.8
2 11	9 20.87	+26 50.9	2.449	3.418	3.7	19.9
2 21	9 12.04	+27 5.9	2.499	3.437	6.1	20.0
3 2	9 4.40	+27 8.0	2.577	3.455	8.8	20.2
3 12	8 58.56	+26 57.9	2.680	3.473	11.3	20.4

454336 2014 KM_{95} 2 8.1 90°.22 7°.1/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.66	+25 41.1	1.562	2.382	16.2	20.9
1 12	9 49.15	+28 14.6	1.512	2.403	12.5	20.7
1 22	9 41.49	+30 52.5	1.487	2.425	9.0	20.6
2 1	9 31.42	+33 20.3	1.490	2.446	7.1	20.5
2 11	9 20.29	+35 24.2	1.521	2.466	8.4	20.6
2 21	9 9.63	+36 55.4	1.580	2.487	11.4	20.9
3 2	9 0.91	+37 51.6	1.662	2.507	14.6	21.1
3 12	8 55.13	+38 16.2	1.765	2.526	17.4	21.4

445873 2012 TB_{243} 2 8.1 105°.93 0°.0/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.94	+12 2.9	1.385	2.191	18.6	21.9
1 12	9 47.88	+12 37.2	1.313	2.198	14.5	21.6
1 22	9 40.69	+13 29.1	1.262	2.206	9.6	21.4
2 1	9 31.11	+14 33.1	1.235	2.213	4.0	21.1
2 11	9 20.43	+15 40.8	1.235	2.220	1.7	20.9
2 21	9 10.19	+16 43.6	1.262	2.227	7.3	21.3
3 2	9 1.83	+17 34.6	1.314	2.234	12.3	21.6
3 12	8 56.37	+18 10.2	1.388	2.240	16.6	21.9

178868 2001 MU_4 2 8.1 154°.29 0°.8/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.25	+13 46.9	2.133	2.921	13.5	20.8
1 12	9 44.79	+14 41.6	2.050	2.927	10.4	20.6
1 22	9 38.16	+15 47.9	1.991	2.933	6.8	20.3
2 1	9 29.92	+17 0.9	1.961	2.939	2.8	20.1
2 11	9 20.93	+18 14.2	1.960	2.944	1.7	20.0
2 21	9 12.16	+19 21.5	1.989	2.949	5.7	20.3
3 2	9 4.56	+20 18.1	2.047	2.953	9.4	20.5
3 12	8 58.90	+21 1.1	2.130	2.956	12.6	20.7

51295 2000 KF_{36} 2 8.1 346°.47 0°.7/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.14	+13 31.4	1.400	2.221	17.6	18.1
1 12	9 42.75	+14 7.8	1.319	2.214	13.7	17.8
1 22	9 37.43	+15 0.9	1.259	2.207	9.0	17.5
2 1	9 29.78	+16 5.5	1.222	2.201	3.8	17.2
2 11	9 20.97	+17 13.4	1.211	2.196	2.0	17.1
2 21	9 12.41	+18 15.8	1.227	2.192	7.4	17.4
3 2	9 5.50	+19 5.7	1.267	2.189	12.5	17.7
3 12	9 1.31	+19 39.1	1.328	2.187	16.8	17.9

416040 2002 ER_{137} 2 8.1 346°.96 0°.6/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.93	+11 23.2	1.631	2.435	16.3	21.1
1 12	9 42.90	+11 44.2	1.546	2.430	12.8	20.8
1 22	9 37.28	+12 20.6	1.482	2.425	8.5	20.6
2 1	9 29.65	+13 8.9	1.444	2.421	3.8	20.3
2 11	9 21.04	+14 3.0	1.432	2.418	1.4	20.1
2 21	9 12.65	+14 56.3	1.447	2.415	6.3	20.4
3 2	9 5.69	+15 42.7	1.489	2.412	10.9	20.7
3 12	9 1.09	+16 17.9	1.553	2.411	14.9	20.9

85747 1998 SL_{132} 2 8.1 172°.47 0°.9/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.44	+15 59.0	1.824	2.615	15.4	20.2
1 12	9 49.92	+16 21.7	1.741	2.619	11.9	20.0
1 22	9 41.71	+16 53.8	1.680	2.622	7.8	19.8
2 1	9 31.47	+17 30.5	1.646	2.624	3.3	19.5
2 11	9 20.30	+18 5.9	1.642	2.626	1.9	19.4
2 21	9 9.45	+18 34.8	1.666	2.627	6.5	19.7
3 2	9 0.14	+18 53.6	1.719	2.627	10.7	19.9
3 12	8 53.27	+19 0.7	1.795	2.626	14.4	20.2

217111 2001 YL_{53} 2 8.1 143°.34 3°.1/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.13	+ 4 46.8	2.378	3.123	13.5	20.6
1 12	9 45.87	+ 4 33.9	2.292	3.134	10.9	20.5
1 22	9 38.68	+ 4 33.9	2.229	3.144	7.8	20.3
2 1	9 30.10	+ 4 46.2	2.193	3.154	4.7	20.1
2 11	9 20.90	+ 5 8.4	2.187	3.164	3.1	20.0
2 21	9 11.95	+ 5 37.2	2.211	3.173	5.0	20.2
3 2	9 4.07	+ 6 9.0	2.265	3.181	8.1	20.4
3 12	8 57.92	+ 6 39.8	2.345	3.188	11.0	20.6

398360 2011 SS_{61} 2 8.1 143°.17 1°.1/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.17	+ 9 48.6	2.004	2.775	14.9	22.7
1 12	9 47.81	+10 9.8	1.924	2.788	11.6	22.5
1 22	9 40.13	+10 44.4	1.868	2.801	7.8	22.2
2 1	9 30.75	+11 29.0	1.838	2.813	3.6	22.0
2 11	9 20.63	+12 18.9	1.838	2.824	1.4	21.9
2 21	9 10.84	+13 8.5	1.869	2.834	5.4	22.2
3 2	9 2.38	+13 53.1	1.928	2.843	9.3	22.4
3 12	8 56.04	+14 29.3	2.012	2.851	12.8	22.6

310862 2003 EW_{40} 2 8.1 343°.08 3°.6/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.05	+18 10.7	1.629	2.449	15.6	19.7
1 12	9 43.17	+19 47.1	1.549	2.445	12.0	19.4
1 22	9 37.58	+21 37.5	1.493	2.442	7.8	19.2
2 1	9 29.83	+23 33.1	1.463	2.439	4.1	18.9
2 11	9 20.99	+25 22.5	1.461	2.436	4.6	19.0
2 21	9 12.34	+26 55.8	1.487	2.434	8.6	19.2
3 2	9 5.16	+28 6.4	1.538	2.432	12.7	19.4
3 12	9 0.46	+28 52.3	1.612	2.430	16.4	19.6

288626 2004 PQ_4 2 8.1 161°.67 1°.5/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.42	+ 8 53.9	2.048	2.814	14.8	21.7
1 12	9 48.01	+ 9 5.9	1.962	2.822	11.6	21.5
1 22	9 40.28	+ 9 31.4	1.899	2.829	7.9	21.3
2 1	9 30.84	+10 7.8	1.863	2.835	3.9	21.1
2 11	9 20.61	+10 50.8	1.856	2.840	1.7	20.9
2 21	9 10.65	+11 35.4	1.880	2.845	5.4	21.2
3 2	9 1.96	+12 17.0	1.933	2.848	9.3	21.4
3 12	8 55.36	+12 52.0	2.011	2.851	12.7	21.6

83265 2001 RU_{76} 2 8.1 332°.31 10°.4/27.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.68	+47 40.1	2.354	3.130	12.8	18.7
1 12	9 50.51	+49 20.1	2.302	3.129	11.4	18.6
1 22	9 42.30	+50 47.1	2.274	3.128	10.5	18.5
2 1	9 31.78	+51 52.0	2.270	3.127	10.5	18.5
2 11	9 20.22	+52 27.9	2.290	3.126	11.3	18.6
2 21	9 9.10	+52 32.2	2.334	3.125	12.6	18.7
3 2	8 59.81	+52 6.6	2.398	3.124	14.2	18.8
3 12	8 53.33	+51 15.7	2.480	3.123	15.6	18.9

323449 2004 HY_{30} 2 8.1 216°.87 0°.7/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.47	+16 1.1	2.623	3.401	11.6	22.3
1 12	9 46.19	+16 24.7	2.519	3.390	8.9	22.1
1 22	9 38.97	+16 55.2	2.440	3.379	5.9	21.8
2 1	9 30.28	+17 29.3	2.389	3.367	2.5	21.6
2 11	9 20.84	+18 2.8	2.370	3.354	1.5	21.5
2 21	9 11.50	+18 32.0	2.382	3.340	5.0	21.7
3 2	9 3.10	+18 54.0	2.423	3.325	8.3	21.9
3 12	8 56.34	+19 7.1	2.491	3.310	11.2	22.1

116617 2004 BJ_{115} 2 8.1 75°.69 8°.2/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.37	+38 27.5	2.165	2.964	13.0	19.1
1 12	9 49.00	+39 54.8	2.121	2.984	10.7	19.0
1 22	9 40.99	+41 13.5	2.101	3.004	8.9	18.9
2 1	9 31.12	+42 14.7	2.107	3.024	8.2	18.9
2 11	9 20.54	+42 51.9	2.141	3.044	9.0	19.0
2 21	9 10.53	+43 2.5	2.200	3.063	10.7	19.1
3 2	9 2.22	+42 47.4	2.283	3.083	12.7	19.3
3 12	8 56.41	+42 10.8	2.386	3.102	14.5	19.5

152683 1998 KT_{23} 2 8.1 262°.17 6°.5/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.69	− 4 47.3	2.195	2.906	15.5	20.1
1 12	9 42.91	− 5 13.2	2.087	2.892	13.2	19.9
1 22	9 37.04	− 5 19.3	1.999	2.878	10.6	19.7
2 1	9 29.53	− 5 3.6	1.935	2.863	8.0	19.5
2 11	9 21.14	− 4 26.7	1.898	2.848	6.5	19.4
2 21	9 12.75	− 3 31.5	1.888	2.833	7.2	19.4
3 2	9 5.33	− 2 23.3	1.906	2.818	9.6	19.5
3 12	8 59.66	− 1 8.9	1.949	2.802	12.5	19.6

283325 1997 AA_{23} 2 8.1 120°.00 0°.6/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.24	+10 2.8	2.554	3.328	12.0	21.5
1 12	9 41.34	+10 40.4	2.468	3.335	9.3	21.3
1 22	9 35.73	+11 29.4	2.406	3.341	6.2	21.1
2 1	9 28.87	+12 26.7	2.372	3.348	2.8	20.9
2 11	9 21.46	+13 27.9	2.369	3.354	1.0	20.8
2 21	9 14.21	+14 28.5	2.396	3.361	4.4	21.0
3 2	9 7.88	+15 24.1	2.453	3.367	7.6	21.2
3 12	9 3.05	+16 11.5	2.535	3.373	10.5	21.4

165695 2001 PT_{32} 2 8.1 139°.77 1°.2/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.64	+ 8 49.6	2.703	3.466	11.6	21.0
1 12	9 42.27	+ 9 10.1	2.616	3.475	9.1	20.8
1 22	9 36.26	+ 9 41.3	2.554	3.484	6.2	20.6
2 1	9 29.08	+10 20.8	2.520	3.492	3.0	20.4
2 11	9 21.38	+11 5.3	2.516	3.500	1.3	20.3
2 21	9 13.86	+11 50.9	2.543	3.508	4.1	20.5
3 2	9 7.22	+12 34.2	2.600	3.516	7.2	20.7
3 12	9 2.03	+13 11.9	2.683	3.523	9.9	20.9

140170 2001 SL_{182} 2 8.1 56°.48 7°.3/ 4.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 3.24	+33 26.0	1.575	2.382	16.7	19.2
1 12	9 56.22	+33 53.0	1.521	2.399	13.3	19.0
1 22	9 45.82	+34 12.0	1.489	2.417	9.9	18.8
2 1	9 33.13	+34 14.0	1.482	2.435	7.5	18.7
2 11	9 19.78	+33 52.4	1.503	2.454	7.8	18.8
2 21	9 7.51	+33 6.0	1.550	2.472	10.4	19.0
3 2	8 57.71	+31 58.2	1.623	2.491	13.6	19.2
3 12	8 51.19	+30 35.2	1.717	2.510	16.6	19.5

497677 2006 SQ_7 2 8.1 123°.47 3°.0/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.65	+ 2 48.7	2.895	3.628	11.6	22.6
1 12	9 42.11	+ 2 46.0	2.810	3.642	9.4	22.5
1 22	9 36.08	+ 2 55.5	2.749	3.657	6.9	22.3
2 1	9 28.98	+ 3 16.4	2.715	3.671	4.3	22.2
2 11	9 21.43	+ 3 46.6	2.711	3.684	3.0	22.1
2 21	9 14.07	+ 4 23.2	2.738	3.698	4.3	22.2
3 2	9 7.54	+ 5 2.7	2.795	3.710	6.7	22.4
3 12	9 2.36	+ 5 41.7	2.878	3.723	9.2	22.6

464168 2015 AC_{38} 2 8.1 137°.58 0°.1/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.04	+13 57.0	2.318	3.100	12.8	21.8
1 12	9 45.15	+14 15.0	2.236	3.109	9.9	21.7
1 22	9 38.27	+14 41.4	2.178	3.117	6.5	21.5
2 1	9 29.96	+15 13.1	2.148	3.125	2.7	21.2
2 11	9 21.03	+15 45.9	2.148	3.133	1.2	21.1
2 21	9 12.36	+16 15.8	2.178	3.141	5.0	21.4
3 2	9 4.82	+16 39.7	2.237	3.148	8.5	21.6
3 12	8 59.07	+16 55.5	2.322	3.154	11.5	21.8

240517 2004 FL_{54} 2 8.1 179°.19 1°.5/ 6.5 17

1 2	9 46.65	+18 22.0	2.876	3.665	10.4	21.2
1 12	9 42.29	+19 5.6	2.788	3.666	7.9	21.0
1 22	9 36.30	+19 54.8	2.724	3.667	5.1	20.8
2 1	9 29.12	+20 45.7	2.690	3.667	2.3	20.6
2 11	9 21.37	+21 33.8	2.687	3.667	2.1	20.6
2 21	9 13.78	+22 15.6	2.715	3.667	4.9	20.8
3 2	9 7.02	+22 48.2	2.772	3.666	7.7	21.0
3 12	9 1.69	+23 10.2	2.855	3.665	10.2	21.2

216830 2006 VX_{130} 2 8.1 183°.96 0°.4/ 7.7 18

1 2	9 49.86	+13 23.2	2.124	2.910	13.7	20.8
1 12	9 45.32	+14 2.9	2.035	2.910	10.6	20.6
1 22	9 38.57	+14 54.1	1.969	2.910	6.9	20.4
2 1	9 30.15	+15 52.5	1.932	2.910	2.9	20.1
2 11	9 20.93	+16 52.5	1.923	2.908	1.4	20.0
2 21	9 11.90	+17 48.2	1.945	2.907	5.6	20.3
3 2	9 4.03	+18 35.3	1.996	2.905	9.4	20.5
3 12	8 58.11	+19 10.7	2.071	2.902	12.7	20.7

82891 2001 QC_{84} 2 8.1 207°.76 3°.5/ 5.7 18

1 2	9 55.90	+24 57.0	2.237	3.031	12.8	18.9
1 12	9 49.94	+25 24.5	2.147	3.026	9.9	18.7
1 22	9 41.58	+25 53.1	2.081	3.020	6.7	18.5
2 1	9 31.42	+26 17.3	2.044	3.014	4.0	18.3
2 11	9 20.44	+26 31.6	2.037	3.007	4.1	18.3
2 21	9 9.73	+26 32.5	2.059	3.000	7.0	18.5
3 2	9 0.37	+26 18.9	2.110	2.992	10.3	18.7
3 12	8 53.19	+25 51.7	2.185	2.984	13.3	18.8

380964 2006 QQ_{75} 2 8.1 5°.62 2°.9/ 6.2 18

1 2	9 51.62	+23 22.1	2.064	2.868	13.3	20.6
1 12	9 46.72	+23 37.1	1.983	2.869	10.3	20.4
1 22	9 39.47	+23 53.9	1.926	2.869	6.8	20.2
2 1	9 30.51	+24 7.6	1.896	2.870	3.6	20.0
2 11	9 20.83	+24 13.3	1.895	2.871	3.6	20.0
2 21	9 11.50	+24 8.0	1.923	2.873	6.7	20.2
3 2	9 3.56	+23 50.3	1.978	2.874	10.2	20.4
3 12	8 57.78	+23 21.0	2.057	2.876	13.3	20.6

383652 2007 TT_{37} 2 8.1 75°.59 0°.1/ 8.2 18

1 2	9 47.86	+12 30.9	2.214	2.999	13.2	21.1
1 12	9 43.50	+12 56.8	2.143	3.017	10.2	20.9
1 22	9 37.19	+13 32.7	2.096	3.035	6.7	20.7
2 1	9 29.50	+14 15.2	2.076	3.054	2.8	20.5
2 11	9 21.26	+14 59.7	2.086	3.072	1.1	20.4
2 21	9 13.34	+15 41.6	2.126	3.090	4.9	20.7
3 2	9 6.59	+16 17.2	2.194	3.108	8.4	20.9
3 12	9 1.62	+16 44.0	2.287	3.126	11.4	21.2

502656 2015 CS_{46} 2 8.1 182°.79 1°.2/ 7.2 18

1 2	9 50.14	+18 8.7	2.290	3.083	12.6	20.8
1 12	9 45.34	+18 19.9	2.203	3.083	9.7	20.6
1 22	9 38.46	+18 36.3	2.140	3.083	6.3	20.4
2 1	9 30.08	+18 54.5	2.105	3.083	2.7	20.1
2 11	9 21.02	+19 10.3	2.100	3.083	1.9	20.1
2 21	9 12.21	+19 20.4	2.124	3.083	5.4	20.3
3 2	9 4.56	+19 22.6	2.177	3.083	8.9	20.5
3 12	8 58.77	+19 16.0	2.255	3.083	12.0	20.7

124172 2001 OY_{23} 2 8.1 108°.22 2°.0/ 6.6 18

1 2	9 55.55	+16 45.5	1.758	2.553	15.7	20.4
1 12	9 49.88	+17 48.5	1.698	2.580	12.0	20.2
1 22	9 41.58	+19 1.3	1.661	2.605	7.7	20.0
2 1	9 31.40	+20 16.7	1.652	2.630	3.4	19.8
2 11	9 20.50	+21 26.5	1.673	2.653	2.9	19.8
2 21	9 10.15	+22 24.0	1.722	2.676	7.0	20.1
3 2	9 1.48	+23 5.3	1.800	2.698	10.9	20.4
3 12	8 55.30	+23 29.7	1.900	2.719	14.2	20.7

472444 2015 BN_{313} 2 8.1 328°.71 0°.8/ 7.4 17

1 2	9 45.51	+13 47.8	2.027	2.825	13.8	21.0
1 12	9 42.14	+14 40.4	1.938	2.821	10.6	20.8
1 22	9 36.58	+15 45.7	1.873	2.817	6.9	20.5
2 1	9 29.35	+16 58.8	1.835	2.813	2.9	20.3
2 11	9 21.31	+18 13.2	1.826	2.810	1.8	20.2
2 21	9 13.43	+19 22.3	1.846	2.807	5.9	20.4
3 2	9 6.68	+20 20.8	1.894	2.804	9.8	20.7
3 12	9 1.86	+21 5.4	1.966	2.801	13.2	20.9

341605 2007 UH_{114} 2 8.1 176°.47 2°.9/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.81	+ 4 12.8	2.617	3.362	12.4	21.2
1 12	9 42.50	+ 4 8.3	2.522	3.364	10.0	21.0
1 22	9 36.49	+ 4 16.3	2.450	3.364	7.3	20.8
2 1	9 29.23	+ 4 36.2	2.405	3.365	4.4	20.6
2 11	9 21.38	+ 5 5.8	2.389	3.365	2.9	20.5
2 21	9 13.67	+ 5 41.8	2.404	3.366	4.6	20.6
3 2	9 6.84	+ 6 20.6	2.447	3.365	7.5	20.8
3 12	9 1.49	+ 6 58.4	2.517	3.365	10.2	21.0

81970 2000 QT_{55} 2 8.1 181°.31 0°.6/ 7.5 18

1 2	9 46.79	+15 26.7	2.838	3.620	10.7	20.3
1 12	9 42.40	+15 56.9	2.747	3.621	8.2	20.2
1 22	9 36.38	+16 34.0	2.680	3.621	5.3	20.0
2 1	9 29.17	+17 14.6	2.643	3.621	2.2	19.8
2 11	9 21.41	+17 55.1	2.636	3.620	1.3	19.7
2 21	9 13.80	+18 31.8	2.661	3.620	4.4	19.9
3 2	9 7.03	+19 2.0	2.714	3.619	7.4	20.1
3 12	9 1.68	+19 23.7	2.794	3.617	10.0	20.3

406825 2008 YR_{21} 2 8.1 283°.38 1°.6/ 8.9 18

1 2	9 51.12	+10 29.8	1.566	2.361	17.3	21.6
1 12	9 47.09	+10 24.7	1.478	2.354	13.7	21.3
1 22	9 40.17	+10 34.3	1.410	2.348	9.4	21.0
2 1	9 30.98	+10 56.2	1.366	2.341	4.5	20.7
2 11	9 20.64	+11 26.2	1.350	2.335	1.9	20.5
2 21	9 10.52	+11 58.5	1.361	2.328	6.6	20.8
3 2	9 1.95	+12 28.0	1.397	2.322	11.4	21.1
3 12	8 56.00	+12 50.3	1.457	2.315	15.7	21.3

466941 2016 AA_{124} 2 8.1 32°.70 4°.0/ 5.7 18

1 2	9 48.72	+19 54.7	1.161	2.001	19.3	20.1
1 12	9 45.75	+21 2.0	1.117	2.022	14.7	19.9
1 22	9 39.37	+22 18.9	1.092	2.044	9.6	19.7
2 1	9 30.57	+23 34.9	1.091	2.068	4.9	19.5
2 11	9 20.91	+24 38.6	1.115	2.092	5.1	19.6
2 21	9 12.06	+25 22.1	1.163	2.117	9.5	19.9
3 2	9 5.47	+25 42.3	1.235	2.143	13.9	20.2
3 12	9 2.00	+25 40.2	1.326	2.170	17.8	20.5

201193 2002 PH_{91} 2 8.1 121°.65 3°.7/11.1 18

1 2	9 48.86	+ 2 33.2	2.497	3.233	13.2	19.9
1 12	9 44.07	+ 2 12.7	2.412	3.244	10.7	19.7
1 22	9 37.51	+ 2 5.7	2.349	3.255	7.9	19.6
2 1	9 29.66	+ 2 11.8	2.313	3.266	5.2	19.4
2 11	9 21.25	+ 2 29.4	2.306	3.276	3.7	19.3
2 21	9 13.06	+ 2 55.6	2.329	3.286	5.1	19.4
3 2	9 5.85	+ 3 26.9	2.380	3.296	7.8	19.6
3 12	9 0.23	+ 3 59.2	2.459	3.306	10.5	19.8

246010 2006 TD_{20} 2 8.1 194°.43 1°.6/ 6.5 17

1 2	9 47.91	+19 36.1	2.916	3.704	10.3	21.4
1 12	9 43.25	+20 6.7	2.824	3.702	7.9	21.3
1 22	9 36.94	+20 41.4	2.758	3.700	5.1	21.1
2 1	9 29.42	+21 16.8	2.721	3.697	2.4	20.9
2 11	9 21.35	+21 48.8	2.715	3.694	2.2	20.9
2 21	9 13.43	+22 14.4	2.739	3.690	4.9	21.0
3 2	9 6.36	+22 31.4	2.793	3.687	7.7	21.2
3 12	9 0.74	+22 38.7	2.872	3.682	10.2	21.4

90742 1993 FX_{44} 2 8.1 248°.01 3°.0/10.1 18

1 2	9 49.08	+ 5 13.8	1.582	2.362	17.8	20.2
1 12	9 45.50	+ 5 27.1	1.490	2.355	14.4	19.9
1 22	9 39.15	+ 6 2.1	1.419	2.348	10.2	19.7
2 1	9 30.58	+ 6 57.3	1.371	2.340	5.7	19.4
2 11	9 20.83	+ 8 7.5	1.351	2.333	3.0	19.2
2 21	9 11.21	+ 9 25.4	1.358	2.325	6.6	19.4
3 2	9 3.04	+10 42.4	1.391	2.317	11.3	19.6
3 12	8 57.36	+11 51.4	1.447	2.309	15.5	19.9

518646 2008 QD_{1} 2 8.1 138°.79 2°.8/ 5.8 18

1 2	9 57.03	+20 57.6	2.291	3.075	12.8	24.0
1 12	9 50.55	+21 57.9	2.221	3.096	9.8	23.8
1 22	9 41.83	+23 2.8	2.176	3.116	6.4	23.6
2 1	9 31.50	+24 6.1	2.161	3.134	3.4	23.5
2 11	9 20.52	+25 1.3	2.178	3.151	3.5	23.5
2 21	9 9.91	+25 43.7	2.225	3.167	6.5	23.7
3 2	9 0.65	+26 10.9	2.302	3.182	9.7	24.0
3 12	8 53.48	+26 22.9	2.403	3.195	12.4	24.2

354879 2006 BG_{76} 2 8.1 254°.51 1°.9/ 6.8 18

1 2	9 51.20	+16 32.4	1.654	2.461	16.0	21.9
1 12	9 47.20	+17 19.0	1.561	2.449	12.4	21.7
1 22	9 40.31	+18 18.4	1.490	2.436	8.2	21.4
2 1	9 31.09	+19 24.7	1.444	2.423	3.6	21.1
2 11	9 20.62	+20 29.6	1.427	2.409	2.9	21.0
2 21	9 10.25	+21 25.4	1.438	2.396	7.6	21.2
3 2	9 1.38	+22 6.4	1.474	2.382	12.2	21.5
3 12	8 55.08	+22 30.1	1.533	2.367	16.3	21.7

298905 2004 TL_{71} 2 8.1 85°.47 1°.1/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.77	+10 25.3	1.549	2.339	17.7	21.5
1 12	9 48.76	+10 41.4	1.487	2.361	13.8	21.3
1 22	9 40.97	+11 13.1	1.446	2.384	9.2	21.1
2 1	9 31.19	+11 56.4	1.430	2.406	4.2	20.9
2 11	9 20.66	+12 44.8	1.443	2.428	1.6	20.7
2 21	9 10.71	+13 32.0	1.483	2.450	6.3	21.1
3 2	9 2.55	+14 12.5	1.550	2.471	10.8	21.4
3 12	8 56.99	+14 42.8	1.641	2.491	14.6	21.7

151078 2001 VD_{64} 2 8.1 136°.91 3°.4/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.14	+22 41.4	1.969	2.775	13.9	20.1
1 12	9 47.28	+23 26.7	1.893	2.780	10.7	19.9
1 22	9 39.94	+24 16.1	1.841	2.785	7.1	19.7
2 1	9 30.78	+25 3.3	1.816	2.789	4.0	19.5
2 11	9 20.81	+25 41.6	1.821	2.794	4.2	19.5
2 21	9 11.19	+26 6.2	1.853	2.798	7.4	19.7
3 2	9 3.02	+26 14.9	1.913	2.802	10.9	19.9
3 12	8 57.11	+26 7.9	1.996	2.806	14.0	20.1

421596 2014 OU_{223} 2 8.1 338°.22 1°.8/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.05	+18 33.7	1.443	2.257	17.6	20.9
1 12	9 49.59	+18 42.7	1.364	2.255	13.6	20.6
1 22	9 41.91	+18 59.7	1.306	2.253	9.0	20.3
2 1	9 31.74	+19 19.2	1.272	2.251	3.9	20.0
2 11	9 20.41	+19 34.6	1.266	2.249	2.8	20.0
2 21	9 9.49	+19 40.7	1.286	2.247	7.8	20.3
3 2	9 0.48	+19 34.5	1.331	2.246	12.6	20.5
3 12	8 54.45	+19 15.9	1.398	2.245	16.9	20.8

381309 2007 VH_{56} 2 8.1 66°.55 4°.2/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.34	+25 17.9	2.212	3.021	12.4	20.8
1 12	9 44.13	+26 22.3	2.143	3.030	9.5	20.6
1 22	9 37.76	+27 28.7	2.099	3.040	6.6	20.4
2 1	9 29.83	+28 30.8	2.083	3.049	4.4	20.3
2 11	9 21.21	+29 22.0	2.096	3.058	4.9	20.3
2 21	9 12.90	+29 57.8	2.137	3.068	7.5	20.5
3 2	9 5.84	+30 16.1	2.205	3.077	10.4	20.7
3 12	9 0.75	+30 17.3	2.296	3.087	13.0	20.9

52692 1998 FO_{8} 2 8.1 286°.86 6°.6/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.42	+34 53.2	2.363	3.162	12.0	17.2
1 12	9 48.26	+35 45.6	2.274	3.145	9.8	17.0
1 22	9 40.62	+36 33.6	2.210	3.128	7.7	16.8
2 1	9 31.10	+37 10.0	2.172	3.111	6.6	16.7
2 11	9 20.68	+37 28.4	2.163	3.094	7.3	16.8
2 21	9 10.50	+37 25.4	2.181	3.077	9.3	16.9
3 2	9 1.68	+37 0.6	2.225	3.060	11.8	17.0
3 12	8 55.07	+36 16.3	2.291	3.043	14.1	17.1

8721 AMOS 2 8.1 148°.20 1°.5/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.76	+ 8 10.3	3.220	3.978	10.0	17.6
1 12	9 39.87	+ 8 14.3	3.125	3.979	7.9	17.4
1 22	9 34.63	+ 8 27.0	3.055	3.981	5.5	17.3
2 1	9 28.43	+ 8 46.9	3.012	3.982	2.9	17.1
2 11	9 21.80	+ 9 11.9	3.000	3.983	1.5	17.0
2 21	9 15.28	+ 9 39.5	3.019	3.984	3.6	17.1
3 2	9 9.46	+10 7.0	3.068	3.985	6.2	17.3
3 12	9 4.79	+10 32.0	3.143	3.986	8.5	17.5

363094 2000 SG_{173} 2 8.1 152°.21 4°.5/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.41	− 0 14.1	2.533	3.251	13.5	21.3
1 12	9 45.27	− 0 37.4	2.443	3.260	11.1	21.1
1 22	9 38.32	− 0 45.9	2.375	3.269	8.5	20.9
2 1	9 30.04	− 0 39.4	2.334	3.277	5.9	20.8
2 11	9 21.15	− 0 19.1	2.322	3.284	4.5	20.7
2 21	9 12.46	+ 0 12.2	2.339	3.291	5.5	20.8
3 2	9 4.73	+ 0 50.5	2.386	3.297	8.0	20.9
3 12	8 58.61	+ 1 31.4	2.460	3.303	10.6	21.1

203633 2002 FO_{38} 2 8.1 3°.03 2°.0/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.75	+15 41.3	1.107	1.949	19.9	20.0
1 12	9 43.12	+16 27.1	1.041	1.947	15.4	19.7
1 22	9 38.01	+17 30.4	0.993	1.947	10.0	19.4
2 1	9 30.18	+18 43.5	0.968	1.948	4.3	19.1
2 11	9 21.07	+19 55.2	0.966	1.950	3.3	19.0
2 21	9 12.40	+20 54.9	0.989	1.953	8.9	19.3
3 2	9 5.84	+21 35.5	1.033	1.958	14.4	19.6
3 12	9 2.52	+21 54.3	1.097	1.965	19.0	19.9

272793 2005 YG_{272} 2 8.1 7°.51 3°.7/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.87	+19 14.5	1.457	2.287	16.6	20.1
1 12	9 42.47	+20 30.3	1.387	2.288	12.7	19.9
1 22	9 37.21	+21 57.8	1.340	2.291	8.3	19.6
2 1	9 29.75	+23 28.2	1.317	2.294	4.3	19.4
2 11	9 21.26	+24 50.8	1.321	2.298	4.7	19.4
2 21	9 13.11	+25 56.8	1.351	2.303	8.8	19.7
3 2	9 6.65	+26 40.9	1.406	2.308	13.0	19.9
3 12	9 2.83	+27 1.9	1.481	2.315	16.8	20.2

240510 2004 EG_{87} 2 8.1 55°.08 0°.9/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.21	+15 42.7	2.014	2.812	13.9	20.9
1 12	9 44.01	+16 12.1	1.946	2.829	10.6	20.7
1 22	9 37.66	+16 50.2	1.901	2.845	6.9	20.5
2 1	9 29.78	+17 32.5	1.883	2.861	2.8	20.3
2 11	9 21.28	+18 13.7	1.894	2.878	1.8	20.2
2 21	9 13.15	+18 49.0	1.934	2.895	5.6	20.5
3 2	9 6.32	+19 15.1	2.002	2.912	9.3	20.7
3 12	9 1.48	+19 30.2	2.093	2.929	12.5	21.0

329855 2004 TD_{308} 2 8.1 157°.17 5°.3/12.6 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.40	− 2 29.9	2.367	3.082	14.4	20.9
1 12	9 43.92	− 2 53.0	2.275	3.087	12.0	20.8
1 22	9 37.53	− 2 58.9	2.205	3.091	9.4	20.6
2 1	9 29.74	− 2 46.8	2.160	3.096	6.8	20.4
2 11	9 21.28	− 2 17.9	2.143	3.100	5.3	20.3
2 21	9 12.99	− 1 35.3	2.154	3.103	6.2	20.4
3 2	9 5.68	− 0 43.7	2.194	3.106	8.5	20.6
3 12	9 0.04	+ 0 11.5	2.260	3.109	11.2	20.7

176835 2002 TF_{189} 2 8.1 57°.46 2°.9/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 58.86	+22 31.4	1.506	2.315	17.2	19.7
1 12	9 52.82	+22 31.7	1.445	2.333	13.2	19.5
1 22	9 43.67	+22 34.3	1.406	2.351	8.7	19.3
2 1	9 32.34	+22 33.2	1.393	2.369	4.2	19.1
2 11	9 20.28	+22 23.0	1.407	2.387	3.6	19.1
2 21	9 9.04	+22 1.0	1.450	2.406	7.7	19.4
3 2	8 59.93	+21 27.0	1.518	2.424	12.0	19.7
3 12	8 53.80	+20 42.9	1.609	2.443	15.7	19.9

66824 1999 UM_{26} 2 8.1 181°.12 1°.2/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.76	+ 9 48.7	2.284	3.056	13.2	18.8
1 12	9 44.30	+ 9 59.2	2.192	3.056	10.4	18.6
1 22	9 37.83	+10 21.1	2.124	3.056	7.1	18.4
2 1	9 29.88	+10 52.2	2.083	3.056	3.4	18.2
2 11	9 21.23	+11 28.9	2.071	3.056	1.4	18.0
2 21	9 12.76	+12 6.9	2.090	3.056	4.8	18.2
3 2	9 5.34	+12 42.3	2.137	3.055	8.4	18.5
3 12	8 59.68	+13 12.0	2.210	3.054	11.6	18.7

426878 2013 WR_{37} 2 8.1 27°.59 1°.6/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.91	+11 3.6	1.981	2.764	14.6	20.2
1 12	9 45.37	+10 41.9	1.900	2.770	11.5	20.0
1 22	9 38.60	+10 30.2	1.842	2.777	7.8	19.8
2 1	9 30.20	+10 26.9	1.811	2.784	3.9	19.6
2 11	9 21.11	+10 29.4	1.808	2.792	1.8	19.4
2 21	9 12.35	+10 34.6	1.834	2.800	5.3	19.7
3 2	9 4.88	+10 39.6	1.887	2.808	9.1	19.9
3 12	8 59.44	+10 41.6	1.966	2.817	12.5	20.2

17392 1981 EY_{40} 2 8.1 197°.08 0°.7/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.18	+11 11.5	2.078	2.860	14.1	19.7
1 12	9 44.85	+11 29.0	1.988	2.858	11.0	19.5
1 22	9 38.32	+11 58.4	1.920	2.857	7.4	19.2
2 1	9 30.13	+12 37.0	1.879	2.855	3.3	19.0
2 11	9 21.13	+13 20.2	1.868	2.853	1.2	18.8
2 21	9 12.33	+14 3.0	1.886	2.851	5.3	19.1
3 2	9 4.69	+14 41.1	1.932	2.849	9.2	19.3
3 12	8 59.00	+15 11.1	2.003	2.846	12.6	19.5

266601 2008 JV_{30} 2 8.1 171°.32 1°.3/ 7.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.50	+16 1.3	2.208	3.000	13.0	21.4
1 12	9 44.99	+16 47.2	2.123	3.002	10.0	21.2
1 22	9 38.35	+17 42.2	2.062	3.004	6.5	21.0
2 1	9 30.12	+18 41.7	2.028	3.006	2.8	20.7
2 11	9 21.14	+19 39.7	2.025	3.008	2.1	20.7
2 21	9 12.36	+20 31.0	2.052	3.009	5.7	20.9
3 2	9 4.73	+21 11.5	2.106	3.009	9.3	21.1
3 12	8 58.98	+21 39.3	2.186	3.009	12.5	21.3

332380 2007 FA_{25} 2 8.1 12°.08 6°.8/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 41.21	− 3 18.4	1.332	2.104	21.0	20.2
1 12	9 39.66	− 3 21.8	1.260	2.108	17.6	19.9
1 22	9 35.37	− 2 53.1	1.206	2.114	13.6	19.7
2 1	9 28.98	− 1 51.0	1.172	2.121	9.6	19.5
2 11	9 21.61	− 0 19.9	1.161	2.130	6.9	19.4
2 21	9 14.56	+ 1 31.1	1.176	2.139	8.0	19.5
3 2	9 9.11	+ 3 29.9	1.215	2.151	11.6	19.7
3 12	9 6.18	+ 5 24.3	1.277	2.163	15.5	20.0

419478 2010 DN_{43} 2 8.1 313°.41 0°.2/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.25	+14 50.6	1.944	2.742	14.3	20.7
1 12	9 44.42	+14 57.9	1.845	2.727	11.1	20.5
1 22	9 38.21	+15 14.4	1.769	2.712	7.4	20.2
2 1	9 30.14	+15 36.9	1.719	2.698	3.1	19.9
2 11	9 21.12	+16 1.1	1.698	2.683	1.4	19.8
2 21	9 12.23	+16 22.4	1.705	2.670	5.9	20.1
3 2	9 4.55	+16 37.3	1.739	2.656	10.1	20.3
3 12	8 58.96	+16 43.3	1.797	2.643	13.7	20.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
81444 2000 GR_{117}			2 8.1 76°.37	1°.1/ 7.4 18		
	h m	° ′			°	m
1 2	9 53.03	+16 11.0	1.667	2.469	16.1	19.9
1 12	9 48.09	+16 36.9	1.604	2.489	12.4	19.7
1 22	9 40.50	+17 12.4	1.564	2.508	8.0	19.5
2 1	9 31.02	+17 52.1	1.550	2.528	3.3	19.3
2 11	9 20.82	+18 29.6	1.563	2.547	2.1	19.2
2 21	9 11.17	+18 59.5	1.606	2.567	6.5	19.6
3 2	9 3.21	+19 18.5	1.674	2.586	10.7	19.9
3 12	8 57.74	+19 25.2	1.767	2.605	14.3	20.1
454104 2013 CF_{6}			2 8.1 314°.88	0°.8/ 8.7 18		
1 2	9 47.61	+ 9 15.7	1.426	2.230	18.3	21.0
1 12	9 44.66	+ 9 55.8	1.342	2.225	14.4	20.7
1 22	9 38.75	+10 57.7	1.279	2.220	9.7	20.4
2 1	9 30.48	+12 17.1	1.239	2.216	4.4	20.1
2 11	9 20.99	+13 45.9	1.226	2.211	1.6	19.9
2 21	9 11.69	+15 14.2	1.240	2.207	7.0	20.2
3 2	9 4.01	+16 32.8	1.279	2.204	12.2	20.5
3 12	8 59.05	+17 35.6	1.340	2.200	16.7	20.7
5057 Weeks			2 8.1 43°.58	1°.1/ 9.1 18		
1 2	9 45.52	+ 8 57.7	2.010	2.794	14.4	17.0
1 12	9 41.99	+ 9 26.6	1.934	2.805	11.3	16.8
1 22	9 36.39	+10 9.9	1.881	2.817	7.6	16.6
2 1	9 29.29	+11 4.4	1.854	2.829	3.6	16.3
2 11	9 21.52	+12 5.0	1.856	2.841	1.4	16.2
2 21	9 14.04	+13 5.9	1.887	2.854	5.1	16.5
3 2	9 7.74	+14 1.8	1.945	2.867	8.9	16.7
3 12	9 3.31	+14 48.7	2.029	2.880	12.2	17.0
233055 2005 GA_{111}			2 8.1 249°.65	0°.4/ 7.7 17		
1 2	9 47.74	+14 45.4	2.276	3.066	12.7	21.1
1 12	9 43.58	+15 8.7	2.185	3.062	9.8	20.9
1 22	9 37.41	+15 40.7	2.118	3.059	6.4	20.6
2 1	9 29.73	+16 17.9	2.078	3.056	2.7	20.4
2 11	9 21.34	+16 56.0	2.068	3.053	1.4	20.3
2 21	9 13.13	+17 30.4	2.087	3.049	5.2	20.5
3 2	9 5.97	+17 57.9	2.135	3.046	8.8	20.8
3 12	9 0.59	+18 16.1	2.208	3.043	11.9	21.0
413089 2001 TZ_{254}			2 8.1 148°.48	5°.4/ 3.9 18		
1 2	9 52.77	+27 28.4	1.951	2.761	13.8	21.5
1 12	9 47.95	+28 36.2	1.879	2.764	10.8	21.4
1 22	9 40.51	+29 45.0	1.831	2.768	7.7	21.2
2 1	9 31.10	+30 46.9	1.810	2.772	5.5	21.0
2 11	9 20.81	+31 33.9	1.818	2.775	6.1	21.1
2 21	9 10.88	+32 1.1	1.853	2.778	8.9	21.3
3 2	9 2.48	+32 6.9	1.914	2.781	12.0	21.5
3 12	8 56.48	+31 52.9	1.998	2.783	14.8	21.7
405973 2006 SJ_{123}			2 8.1 78°.16	8°.2/ 2.9 18		
1 2	9 59.41	+34 22.7	1.690	2.498	15.7	20.9
1 12	9 53.29	+35 41.3	1.648	2.524	12.6	20.7
1 22	9 44.00	+36 52.7	1.628	2.549	9.8	20.6
2 1	9 32.51	+37 46.2	1.634	2.574	8.2	20.6
2 11	9 20.31	+38 13.8	1.667	2.599	8.9	20.7
2 21	9 8.99	+38 12.8	1.726	2.623	11.2	20.9
3 2	8 59.89	+37 45.0	1.808	2.648	13.8	21.1
3 12	8 53.82	+36 55.8	1.912	2.671	16.3	21.3
102095 1999 RK_{156}			2 8.1 61°.65	1°.2/ 8.8 18		
1 2	9 52.35	+10 42.2	1.449	2.247	18.3	18.6
1 12	9 47.87	+10 48.5	1.388	2.267	14.3	18.4
1 22	9 40.51	+11 10.7	1.348	2.288	9.6	18.2
2 1	9 31.08	+11 44.8	1.333	2.308	4.4	17.9
2 11	9 20.86	+12 24.9	1.344	2.329	1.7	17.8
2 21	9 11.25	+13 4.7	1.383	2.350	6.5	18.2
3 2	9 3.48	+13 38.7	1.447	2.371	11.1	18.5
3 12	8 58.41	+14 3.2	1.534	2.392	15.0	18.8
379007 2008 UZ_{347}			2 8.1 50°.67	3°.3/ 5.6 18		
1 2	9 49.31	+22 3.5	1.958	2.768	13.7	20.8
1 12	9 45.09	+22 50.7	1.887	2.776	10.5	20.6
1 22	9 38.52	+23 42.6	1.840	2.785	7.0	20.4
2 1	9 30.22	+24 32.8	1.820	2.794	3.8	20.2
2 11	9 21.20	+25 14.9	1.828	2.803	4.0	20.2
2 21	9 12.53	+25 44.0	1.865	2.812	7.2	20.4
3 2	9 5.26	+25 57.6	1.929	2.821	10.6	20.6
3 12	9 0.15	+25 55.8	2.015	2.830	13.7	20.9
457133 2008 FG_{75}			2 8.1 232°.24	2°.8/10.5 18		
1 2	9 47.45	+ 3 42.1	2.111	2.867	14.7	22.2
1 12	9 43.58	+ 4 5.1	2.009	2.858	11.9	22.0
1 22	9 37.56	+ 4 46.6	1.929	2.849	8.5	21.8
2 1	9 29.87	+ 5 45.0	1.875	2.840	5.0	21.5
2 11	9 21.31	+ 6 56.5	1.850	2.830	2.8	21.4
2 21	9 12.81	+ 8 15.2	1.854	2.820	5.3	21.5
3 2	9 5.34	+ 9 34.5	1.887	2.809	9.1	21.7
3 12	8 59.72	+10 48.4	1.946	2.798	12.6	21.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
375949 2009 WH_{165}			2 8.1 91°.51	2°.6/ 6.1 18		
	h m	° ′			°	m
1 2	9 49.61	+19 55.6	2.004	2.809	13.7	21.0
1 12	9 45.28	+20 43.7	1.930	2.817	10.5	20.8
1 22	9 38.62	+21 38.4	1.879	2.824	6.8	20.6
2 1	9 30.27	+22 33.6	1.856	2.832	3.4	20.4
2 11	9 21.18	+23 22.8	1.862	2.839	3.3	20.4
2 21	9 12.40	+24 1.0	1.896	2.847	6.7	20.7
3 2	9 4.95	+24 25.0	1.958	2.854	10.3	20.9
3 12	8 59.61	+24 34.0	2.043	2.862	13.4	21.1
170936 2005 AH_{26}			2 8.1 331°.28	1°.1/ 8.8 18		
1 2	9 45.85	+10 29.2	1.311	2.127	18.9	19.5
1 12	9 43.61	+10 42.8	1.224	2.114	15.0	19.2
1 22	9 38.25	+11 15.9	1.157	2.102	10.2	18.9
2 1	9 30.35	+12 5.6	1.113	2.090	4.7	18.5
2 11	9 21.10	+13 5.2	1.094	2.079	1.7	18.3
2 21	9 11.99	+14 6.2	1.100	2.069	7.3	18.6
3 2	9 4.58	+15 0.4	1.130	2.060	12.8	18.9
3 12	9 0.06	+15 41.9	1.181	2.052	17.6	19.1
401336 2013 AU_{78}			2 8.1 202°.18	5°.7/11.2 18		
1 2	9 53.34	+ 1 45.6	1.700	2.451	17.9	20.8
1 12	9 48.57	+ 1 1.0	1.609	2.449	14.8	20.6
1 22	9 41.07	+ 0 34.5	1.538	2.447	11.2	20.4
2 1	9 31.43	+ 0 27.7	1.492	2.444	7.6	20.2
2 11	9 20.70	+ 0 39.8	1.472	2.441	5.7	20.0
2 21	9 10.14	+ 1 7.4	1.480	2.437	7.5	20.1
3 2	9 1.03	+ 1 45.2	1.514	2.433	11.1	20.3
3 12	8 54.35	+ 2 26.6	1.572	2.429	14.8	20.5
242927 2006 QK_{28}			2 8.1 137°.91	7°.2/31.6 18		
1 2	9 52.12	+37 32.0	2.512	3.308	11.5	20.6
1 12	9 47.13	+38 55.9	2.451	3.314	9.5	20.5
1 22	9 39.81	+40 13.8	2.415	3.319	7.9	20.4
2 1	9 30.78	+41 18.1	2.406	3.324	7.2	20.3
2 11	9 20.99	+42 2.4	2.425	3.329	8.0	20.4
2 21	9 11.51	+42 23.6	2.471	3.334	9.6	20.5
3 2	9 3.36	+42 21.5	2.541	3.339	11.6	20.7
3 12	8 57.33	+41 58.8	2.632	3.343	13.4	20.8
239367 2007 RW_{228}			2 8.1 150°.11	0°.5/ 8.5 18		
1 2	9 51.04	+10 23.8	1.853	2.636	15.5	21.2
1 12	9 46.51	+11 2.6	1.772	2.643	12.1	21.0
1 22	9 39.53	+11 56.7	1.713	2.650	8.0	20.7
2 1	9 30.71	+13 2.0	1.680	2.657	3.6	20.5
2 11	9 21.02	+14 12.1	1.677	2.662	1.3	20.3
2 21	9 11.60	+15 20.0	1.703	2.668	5.8	20.6
3 2	9 3.55	+16 19.8	1.757	2.673	10.0	20.9
3 12	8 57.70	+17 7.6	1.835	2.677	13.7	21.1
186563 2002 YY_{12}			2 8.1 12°.39	1°.2/ 7.3 18		
1 2	9 46.08	+14 22.7	1.376	2.199	17.8	19.2
1 12	9 43.48	+15 7.3	1.306	2.201	13.8	19.0
1 22	9 37.93	+16 7.8	1.256	2.205	9.0	18.7
2 1	9 30.12	+17 17.6	1.230	2.209	3.7	18.4
2 11	9 21.26	+18 28.0	1.230	2.214	2.4	18.3
2 21	9 12.79	+19 30.1	1.256	2.221	7.5	18.7
3 2	9 6.06	+20 17.4	1.307	2.228	12.4	19.0
3 12	9 2.05	+20 46.8	1.379	2.235	16.5	19.2
432855 2011 HJ_{75}			2 8.1 178°.37	1°.0/ 7.2 17		
1 2	9 47.00	+15 1.1	2.568	3.354	11.6	21.6
1 12	9 42.82	+15 52.7	2.479	3.355	8.9	21.4
1 22	9 36.83	+16 53.3	2.414	3.356	5.8	21.2
2 1	9 29.50	+17 58.7	2.378	3.356	2.4	21.0
2 11	9 21.52	+19 3.8	2.373	3.356	1.7	20.9
2 21	9 13.69	+20 3.6	2.399	3.356	5.0	21.1
3 2	9 6.77	+20 54.2	2.454	3.356	8.2	21.4
3 12	9 1.42	+21 33.4	2.534	3.355	11.0	21.5
85607 1998 FV_{146}			2 8.1 333°.96	1°.3/ 9.2 18		
1 2	9 44.92	+ 8 53.8	2.146	2.926	13.7	19.6
1 12	9 41.55	+ 9 14.1	2.052	2.921	10.8	19.4
1 22	9 36.17	+ 9 48.1	1.982	2.916	7.4	19.1
2 1	9 29.27	+10 33.4	1.937	2.911	3.6	18.9
2 11	9 21.61	+11 25.8	1.922	2.907	1.5	18.7
2 21	9 14.10	+12 20.1	1.936	2.903	5.0	19.0
3 2	9 7.62	+13 11.4	1.977	2.899	8.7	19.2
3 12	9 2.92	+13 55.6	2.044	2.895	12.1	19.4
463477 2013 PX_{57}			2 8.1 285°.13	5°.3/10.8 17		
1 2	9 52.23	+ 3 27.6	1.800	2.556	16.8	21.2
1 12	9 47.64	+ 2 32.4	1.701	2.546	13.9	21.0
1 22	9 40.44	+ 1 51.5	1.624	2.536	10.5	20.7
2 1	9 31.18	+ 1 26.8	1.571	2.525	7.0	20.5
2 11	9 20.82	+ 1 18.1	1.545	2.515	5.3	20.4
2 21	9 10.55	+ 1 23.3	1.547	2.505	7.2	20.5
3 2	9 1.59	+ 1 38.7	1.576	2.494	10.8	20.7
3 12	8 54.91	+ 1 59.1	1.629	2.484	14.4	20.8

381162 2007 HQ_{18} 2 8.1 229°.47 2°.2/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.09	+19 50.4	2.366	3.160	12.2	21.9
1 12	9 45.45	+20 31.2	2.269	3.150	9.4	21.7
1 22	9 38.70	+21 17.9	2.197	3.140	6.1	21.5
2 1	9 30.34	+22 5.8	2.154	3.130	3.0	21.2
2 11	9 21.18	+22 49.4	2.140	3.119	2.9	21.2
2 21	9 12.14	+23 24.3	2.157	3.107	6.1	21.4
3 2	9 4.15	+23 47.3	2.201	3.095	9.4	21.6
3 12	8 57.99	+23 57.2	2.271	3.083	12.4	21.8

271813 2004 TH_{118} 2 8.1 210°.31 3°.0/ 5.4 17

1 2	9 51.54	+22 57.7	2.568	3.361	11.4	21.8
1 12	9 46.40	+23 44.2	2.474	3.354	8.8	21.6
1 22	9 39.24	+24 34.1	2.406	3.346	5.9	21.4
2 1	9 30.55	+25 22.4	2.366	3.337	3.4	21.2
2 11	9 21.10	+26 3.8	2.357	3.328	3.6	21.2
2 21	9 11.79	+26 34.2	2.378	3.318	6.3	21.4
3 2	9 3.51	+26 51.1	2.428	3.308	9.2	21.5
3 12	8 56.99	+26 54.2	2.502	3.296	11.9	21.7

461814 2005 YB_{227} 2 8.1 49°.38 5°.3/ 4.2 18

1 2	9 49.89	+24 14.8	1.583	2.407	15.8	21.0
1 12	9 46.06	+25 44.4	1.531	2.426	12.1	20.8
1 22	9 39.39	+27 18.1	1.501	2.446	8.3	20.6
2 1	9 30.66	+28 45.8	1.498	2.465	5.6	20.5
2 11	9 21.10	+29 57.7	1.521	2.485	6.3	20.6
2 21	9 12.09	+30 47.2	1.572	2.505	9.4	20.8
3 2	9 4.86	+31 12.1	1.647	2.526	12.9	21.1
3 12	9 0.27	+31 14.0	1.743	2.547	15.9	21.3

425337 2010 AR_{105} 2 8.1 10°.50 1°.8/ 6.6 18

1 2	9 46.43	+17 15.0	2.039	2.844	13.5	20.8
1 12	9 42.85	+18 5.3	1.958	2.845	10.3	20.6
1 22	9 37.08	+19 4.7	1.900	2.846	6.7	20.4
2 1	9 29.66	+20 7.9	1.869	2.847	3.0	20.1
2 11	9 21.48	+21 8.5	1.867	2.848	2.6	20.1
2 21	9 13.51	+22 0.8	1.894	2.850	6.2	20.3
3 2	9 6.74	+22 40.4	1.949	2.852	9.9	20.6
3 12	9 1.93	+23 5.6	2.026	2.854	13.1	20.8

92794 2000 QP_{152} 2 8.1 97°.80 3°.9/10.7 18

1 2	9 52.16	+ 3 29.5	1.654	2.417	17.8	19.7
1 12	9 47.45	+ 3 27.0	1.584	2.436	14.4	19.5
1 22	9 40.15	+ 3 44.8	1.535	2.454	10.3	19.3
2 1	9 30.96	+ 4 21.6	1.510	2.472	6.2	19.1
2 11	9 20.99	+ 5 13.2	1.512	2.490	3.9	19.0
2 21	9 11.44	+ 6 13.1	1.543	2.507	6.3	19.2
3 2	9 3.47	+ 7 14.5	1.600	2.524	10.2	19.5
3 12	8 57.90	+ 8 11.1	1.682	2.541	13.9	19.7

428969 2008 YZ_{140} 2 8.1 17°.50 0°.6/ 7.5 17

1 2	9 45.18	+13 2.5	2.135	2.929	13.3	21.1
1 12	9 41.78	+13 58.6	2.050	2.930	10.3	20.9
1 22	9 36.33	+15 7.2	1.989	2.932	6.7	20.6
2 1	9 29.34	+16 23.7	1.955	2.933	2.8	20.4
2 11	9 21.62	+17 41.7	1.951	2.935	1.6	20.3
2 21	9 14.07	+18 54.9	1.976	2.937	5.5	20.6
3 2	9 7.61	+19 58.0	2.029	2.940	9.2	20.8
3 12	9 2.95	+20 47.6	2.107	2.942	12.4	21.0

399715 2004 VE_{36} 2 8.1 189°.84 1°.1/ 8.9 18

1 2	9 52.89	+10 2.9	2.080	2.850	14.4	22.5
1 12	9 47.75	+10 20.0	1.986	2.849	11.4	22.3
1 22	9 40.29	+10 50.1	1.914	2.847	7.7	22.0
2 1	9 31.05	+11 30.2	1.870	2.845	3.6	21.8
2 11	9 20.94	+12 16.1	1.856	2.841	1.4	21.6
2 21	9 10.99	+13 2.5	1.872	2.837	5.4	21.9
3 2	9 2.25	+13 44.8	1.917	2.832	9.4	22.1
3 12	8 55.55	+14 19.3	1.987	2.826	12.9	22.3

495917 2005 UT_{390} 2 8.1 178°.32 6°.0/ 2.9 18

1 2	9 54.72	+31 56.7	2.333	3.131	12.2	21.6
1 12	9 49.17	+33 6.2	2.259	3.132	9.7	21.5
1 22	9 41.19	+34 13.2	2.210	3.134	7.4	21.3
2 1	9 31.42	+35 10.3	2.189	3.134	6.0	21.3
2 11	9 20.83	+35 50.7	2.197	3.134	6.7	21.3
2 21	9 10.53	+36 10.5	2.233	3.134	8.8	21.4
3 2	9 1.62	+36 8.9	2.295	3.133	11.3	21.6
3 12	8 54.89	+35 48.0	2.380	3.131	13.7	21.7

444398 2005 YC_{280} 2 8.1 84°.14 2°.1/ 6.9 15

1 2	9 56.83	+17 46.5	1.468	2.275	17.7	22.2
1 12	9 51.32	+18 26.5	1.414	2.301	13.5	22.0
1 22	9 42.77	+19 15.8	1.381	2.327	8.7	21.8
2 1	9 32.07	+20 7.2	1.374	2.352	3.8	21.6
2 11	9 20.62	+20 52.3	1.395	2.377	3.1	21.6
2 21	9 9.92	+21 25.2	1.443	2.401	7.6	21.9
3 2	9 1.26	+21 42.8	1.518	2.425	11.9	22.3
3 12	8 55.49	+21 44.9	1.614	2.448	15.6	22.5

131695 2001 XS_{254} 2 8.1 35°.90 0°.1/ 7.2 07 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 27.12	+18 7.7	34.860	35.642	1.0	23.3
1 12	9 26.36	+18 12.0	34.767	35.643	0.7	23.3
1 22	9 25.50	+18 16.5	34.702	35.644	0.5	23.3
2 1	9 24.57	+18 21.2	34.667	35.645	0.2	23.2
2 11	9 23.62	+18 25.9	34.663	35.646	0.1	23.2
2 21	9 22.67	+18 30.2	34.689	35.647	0.4	23.2
3 2	9 21.77	+18 34.2	34.745	35.648	0.7	23.3
3 12	9 20.96	+18 37.7	34.829	35.648	0.9	23.3

284650 2007 XK_{1} 2 8.1 268°.81 3°.2/10.8 17

1 2	9 46.31	+ 3 55.6	2.362	3.114	13.4	20.7
1 12	9 42.39	+ 3 49.7	2.268	3.113	10.9	20.5
1 22	9 36.61	+ 3 58.1	2.197	3.113	7.9	20.3
2 1	9 29.45	+ 4 19.9	2.152	3.112	4.9	20.1
2 11	9 21.63	+ 4 52.7	2.135	3.112	3.2	20.0
2 21	9 13.96	+ 5 33.0	2.148	3.111	5.0	20.1
3 2	9 7.24	+ 6 16.5	2.190	3.111	8.0	20.3
3 12	9 2.14	+ 6 58.8	2.257	3.110	11.0	20.5

113113 2002 RH_{79} 2 8.1 195°.46 0°.6/ 7.6 18

1 2	9 48.51	+15 24.6	2.461	3.247	12.0	20.5
1 12	9 44.04	+15 50.9	2.370	3.245	9.3	20.3
1 22	9 37.68	+16 25.0	2.302	3.243	6.0	20.1
2 1	9 29.90	+17 3.4	2.263	3.241	2.5	19.9
2 11	9 21.45	+17 41.7	2.254	3.239	1.4	19.8
2 21	9 13.17	+18 15.9	2.276	3.236	5.0	20.1
3 2	9 5.88	+18 42.9	2.326	3.233	8.3	20.3
3 12	9 0.26	+19 0.7	2.402	3.230	11.3	20.4

380502 2004 DZ_{69} 2 8.1 22°.19 0°.1/ 8.3 18

1 2	9 43.96	+ 9 54.3	1.775	2.573	15.5	20.0
1 12	9 41.18	+10 54.2	1.699	2.580	12.0	19.8
1 22	9 36.09	+12 11.6	1.646	2.588	7.9	19.6
2 1	9 29.29	+13 41.5	1.618	2.596	3.4	19.3
2 11	9 21.70	+15 16.0	1.619	2.605	1.3	19.2
2 21	9 14.37	+16 47.1	1.649	2.614	5.9	19.5
3 2	9 8.32	+18 7.4	1.705	2.625	10.0	19.8
3 12	9 4.35	+19 12.4	1.786	2.635	13.6	20.0

222784 2002 CF_{179} 2 8.1 96°.07 1°.3/ 7.2 18

1 2	9 50.10	+16 19.4	1.941	2.739	14.3	20.6
1 12	9 45.67	+16 55.3	1.866	2.749	11.0	20.4
1 22	9 38.92	+17 40.3	1.814	2.758	7.1	20.2
2 1	9 30.46	+18 29.3	1.790	2.768	3.0	20.0
2 11	9 21.25	+19 16.5	1.794	2.777	2.1	19.9
2 21	9 12.37	+19 56.5	1.827	2.787	6.1	20.2
3 2	9 4.85	+20 25.5	1.888	2.796	9.9	20.5
3 12	8 59.46	+20 41.8	1.973	2.805	13.3	20.7

92593 2000 PN_{16} 2 8.1 53°.24 0°.4/ 7.9 18

1 2	9 49.05	+11 43.0	1.331	2.145	18.8	18.6
1 12	9 45.76	+12 36.4	1.268	2.158	14.6	18.4
1 22	9 39.41	+13 49.0	1.225	2.171	9.5	18.2
2 1	9 30.76	+15 14.1	1.206	2.185	4.0	17.9
2 11	9 21.13	+16 41.7	1.214	2.199	1.8	17.8
2 21	9 11.99	+18 1.7	1.248	2.214	7.3	18.1
3 2	9 4.73	+19 6.7	1.308	2.229	12.3	18.5
3 12	9 0.30	+19 52.7	1.389	2.244	16.5	18.8

375507 2008 UH_{101} 2 8.1 206°.40 3°.1/10.6 17

1 2	9 47.58	+ 4 20.1	2.251	3.004	14.0	21.6
1 12	9 43.48	+ 4 16.4	2.156	3.003	11.3	21.5
1 22	9 37.39	+ 4 27.3	2.083	3.001	8.2	21.2
2 1	9 29.81	+ 4 52.2	2.036	2.999	4.9	21.0
2 11	9 21.50	+ 5 28.3	2.019	2.996	3.1	20.9
2 21	9 13.34	+ 6 11.8	2.030	2.994	5.1	21.0
3 2	9 6.19	+ 6 58.0	2.070	2.991	8.4	21.2
3 12	9 0.77	+ 7 42.4	2.136	2.989	11.6	21.4

333007 2011 LT_{25} 2 8.1 167°.36 3°.8/11.3 18

1 2	9 48.03	+ 1 56.9	2.494	3.229	13.2	20.7
1 12	9 43.58	+ 1 39.0	2.400	3.231	10.8	20.5
1 22	9 37.33	+ 1 35.0	2.328	3.233	8.1	20.3
2 1	9 29.75	+ 1 44.8	2.283	3.235	5.3	20.2
2 11	9 21.53	+ 2 6.8	2.266	3.236	3.8	20.1
2 21	9 13.47	+ 2 38.2	2.280	3.237	5.2	20.2
3 2	9 6.34	+ 3 15.0	2.322	3.238	7.9	20.3
3 12	9 0.78	+ 3 53.0	2.390	3.239	10.6	20.5

309218 2007 OE_{7} 2 8.1 212°.92 0°.0/ 7.9 18

1 2	9 54.87	+14 1.0	1.937	2.720	14.9	21.4
1 12	9 49.53	+14 10.1	1.840	2.713	11.6	21.2
1 22	9 41.61	+14 29.2	1.766	2.705	7.7	20.9
2 1	9 31.68	+14 54.8	1.720	2.697	3.3	20.7
2 11	9 20.74	+15 22.2	1.703	2.688	1.3	20.5
2 21	9 9.95	+15 46.7	1.715	2.678	6.0	20.8
3 2	9 0.51	+16 4.7	1.756	2.668	10.3	21.0
3 12	8 53.35	+16 13.8	1.821	2.657	14.0	21.2

378863 2008 TX_{88} 2 8.1 159°.73 3°.1/ 5.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.52	+22 38.3	2.220	3.022	12.6	21.0
1 12	9 45.85	+23 22.2	2.140	3.024	9.7	20.8
1 22	9 38.97	+24 9.8	2.084	3.026	6.5	20.6
2 1	9 30.48	+24 55.6	2.056	3.028	3.6	20.4
2 11	9 21.25	+25 33.7	2.057	3.030	3.8	20.4
2 21	9 12.29	+25 59.9	2.088	3.032	6.7	20.6
3 2	9 4.56	+26 11.8	2.146	3.033	9.9	20.8
3 12	8 58.81	+26 9.3	2.228	3.035	12.8	21.0

69026 2002 VL_{93} 2 8.1 2°.59 4°.4/10.5 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.33	+ 5 43.2	1.428	2.219	18.9	18.0
1 12	9 45.10	+ 5 5.9	1.349	2.218	15.3	17.7
1 22	9 38.98	+ 4 46.8	1.289	2.217	11.1	17.5
2 1	9 30.62	+ 4 46.2	1.252	2.218	6.7	17.2
2 11	9 21.18	+ 5 2.1	1.241	2.219	4.4	17.1
2 21	9 12.05	+ 5 29.6	1.255	2.221	7.2	17.3
3 2	9 4.56	+ 6 2.9	1.294	2.224	11.6	17.5
3 12	8 59.72	+ 6 35.5	1.355	2.228	15.7	17.8

498373 2007 WL_{21} 2 8.1 33°.17 4°.0/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.49	+ 3 31.4	2.067	2.823	15.0	21.1
1 12	9 43.49	+ 3 5.6	1.984	2.830	12.2	20.9
1 22	9 37.41	+ 2 55.0	1.922	2.837	8.9	20.7
2 1	9 29.81	+ 2 59.5	1.886	2.844	5.7	20.5
2 11	9 21.53	+ 3 17.1	1.878	2.852	4.0	20.4
2 21	9 13.49	+ 3 44.5	1.899	2.860	5.7	20.5
3 2	9 6.60	+ 4 17.2	1.946	2.868	8.8	20.7
3 12	9 1.57	+ 4 50.7	2.019	2.877	11.9	20.9

143580 2003 FO_{9} 2 8.1 263°.15 0°.9/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.06	+12 37.7	2.130	2.907	13.9	20.0
1 12	9 48.01	+12 27.9	2.019	2.887	11.0	19.7
1 22	9 40.58	+12 26.8	1.931	2.867	7.4	19.5
2 1	9 31.26	+12 32.4	1.871	2.846	3.4	19.2
2 11	9 20.92	+12 41.6	1.840	2.825	1.3	19.0
2 21	9 10.60	+12 51.0	1.839	2.803	5.5	19.2
3 2	9 1.40	+12 57.7	1.866	2.782	9.6	19.4
3 12	8 54.21	+12 59.3	1.919	2.759	13.2	19.6

337491 2001 SC_{96} 2 8.1 123°.42 2°.5/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.84	+ 4 17.9	2.503	3.254	12.8	21.1
1 12	9 41.88	+ 4 34.0	2.415	3.261	10.3	20.9
1 22	9 36.20	+ 5 4.4	2.350	3.268	7.3	20.8
2 1	9 29.27	+ 5 47.5	2.312	3.276	4.3	20.6
2 11	9 21.75	+ 6 40.0	2.303	3.282	2.5	20.5
2 21	9 14.42	+ 7 37.7	2.324	3.289	4.5	20.6
3 2	9 7.99	+ 8 35.8	2.375	3.296	7.5	20.8
3 12	9 3.09	+ 9 30.2	2.452	3.302	10.4	21.0

456208 2006 JQ_{36} 2 8.1 241°.77 5°.0/ 4.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.80	+22 37.2	1.745	2.560	15.0	21.3
1 12	9 46.95	+24 16.8	1.659	2.551	11.6	21.0
1 22	9 40.23	+26 6.4	1.597	2.541	7.9	20.8
2 1	9 31.20	+27 56.0	1.563	2.531	5.2	20.6
2 11	9 20.93	+29 34.7	1.557	2.521	6.0	20.6
2 21	9 10.74	+30 53.3	1.579	2.511	9.5	20.8
3 2	9 2.01	+31 46.7	1.626	2.500	13.3	21.0
3 12	8 55.85	+32 14.4	1.695	2.489	16.7	21.2

112441 2002 OL_{3} 2 8.2 67°.15 4°.3/11.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.65	+ 1 54.3	2.157	2.903	14.7	18.3
1 12	9 43.54	+ 1 33.7	2.072	2.909	12.1	18.1
1 22	9 37.42	+ 1 29.0	2.008	2.916	9.0	17.9
2 1	9 29.82	+ 1 40.3	1.969	2.922	5.9	17.8
2 11	9 21.54	+ 2 5.6	1.958	2.929	4.3	17.7
2 21	9 13.48	+ 2 41.5	1.976	2.936	5.7	17.8
3 2	9 6.50	+ 3 23.3	2.022	2.942	8.7	18.0
3 12	9 1.32	+ 4 6.0	2.093	2.949	11.7	18.2

258489 2002 AM_{45} 2 8.2 281°.43 2°.3/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.00	+16 6.4	1.923	2.727	14.2	20.2
1 12	9 43.67	+17 25.7	1.825	2.712	10.9	20.0
1 22	9 37.90	+18 59.5	1.750	2.696	7.1	19.7
2 1	9 30.17	+20 41.1	1.703	2.681	3.3	19.4
2 11	9 21.35	+22 22.0	1.686	2.665	3.2	19.4
2 21	9 12.54	+23 53.3	1.697	2.650	7.2	19.6
3 2	9 4.89	+25 8.5	1.736	2.634	11.3	19.8
3 12	8 59.35	+26 4.1	1.798	2.618	14.9	20.0

442626 2012 SH_{21} 2 8.2 105°.40 3°.6/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.37	+ 3 41.7	1.491	2.263	19.1	21.8
1 12	9 47.95	+ 3 51.7	1.421	2.279	15.3	21.6
1 22	9 40.68	+ 4 24.9	1.371	2.295	11.0	21.4
2 1	9 31.29	+ 5 19.2	1.344	2.310	6.3	21.1
2 11	9 20.97	+ 6 29.0	1.344	2.325	3.6	21.0
2 21	9 11.08	+ 7 46.2	1.372	2.339	6.6	21.2
3 2	9 2.91	+ 9 2.5	1.426	2.353	11.1	21.5
3 12	8 57.39	+10 10.5	1.504	2.366	15.1	21.8

517631 2014 YY_{55} 2 8.2 39°.16 0°.7/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.87	+14 39.3	2.001	2.797	14.0	21.9
1 12	9 43.97	+15 13.3	1.918	2.799	10.8	21.7
1 22	9 37.84	+15 57.9	1.857	2.801	7.1	21.5
2 1	9 30.04	+16 48.7	1.824	2.803	2.9	21.2
2 11	9 21.46	+17 39.9	1.820	2.805	1.6	21.2
2 21	9 13.11	+18 26.2	1.845	2.807	5.8	21.4
3 2	9 5.98	+19 3.2	1.897	2.809	9.6	21.7
3 12	9 0.86	+19 28.4	1.973	2.811	13.0	21.9

170490 2003 UZ_{300} 2 8.2 214°.40 0°.1/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.98	+13 25.2	1.866	2.654	15.2	20.6
1 12	9 48.14	+13 35.5	1.774	2.649	11.9	20.4
1 22	9 40.73	+13 56.7	1.704	2.643	7.9	20.1
2 1	9 31.33	+14 25.5	1.660	2.638	3.4	19.8
2 11	9 20.94	+14 57.0	1.646	2.632	1.3	19.7
2 21	9 10.74	+15 26.1	1.660	2.625	6.0	20.0
3 2	9 1.91	+15 48.9	1.703	2.618	10.3	20.2
3 12	8 55.36	+16 2.7	1.769	2.610	14.1	20.4

200561 2001 OJ_{16} 2 8.2 111°.50 4°.8/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.51	+24 26.0	1.686	2.493	15.7	20.8
1 12	9 51.75	+25 35.5	1.628	2.514	12.1	20.6
1 22	9 43.05	+26 48.2	1.594	2.534	8.2	20.4
2 1	9 32.25	+27 54.8	1.586	2.554	5.2	20.3
2 11	9 20.62	+28 46.6	1.606	2.573	5.6	20.3
2 21	9 9.61	+29 18.1	1.655	2.591	8.8	20.6
3 2	9 0.49	+29 27.8	1.730	2.608	12.4	20.8
3 12	8 54.14	+29 17.7	1.826	2.625	15.5	21.1

164572 2006 KD_{122} 2 8.2 89°.40 5°.4/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.89	− 5 12.7	2.642	3.331	13.6	20.0
1 12	9 43.96	− 5 33.7	2.571	3.361	11.4	19.9
1 22	9 37.41	− 5 37.5	2.522	3.391	9.1	19.8
2 1	9 29.73	− 5 23.7	2.498	3.420	6.8	19.7
2 11	9 21.63	− 4 53.7	2.503	3.449	5.5	19.6
2 21	9 13.81	− 4 10.6	2.537	3.477	5.9	19.7
3 2	9 6.96	− 3 18.7	2.600	3.504	7.7	19.8
3 12	9 1.62	− 2 23.0	2.689	3.531	9.8	20.0

492509 2014 OW_{29} 2 8.2 221°.69 0°.8/ 7.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.23	+15 6.9	1.828	2.621	15.3	22.5
1 12	9 48.47	+15 35.3	1.734	2.613	11.9	22.3
1 22	9 41.04	+16 14.8	1.663	2.605	7.8	22.0
2 1	9 31.50	+17 1.0	1.618	2.596	3.3	21.7
2 11	9 20.87	+17 47.7	1.601	2.586	1.9	21.6
2 21	9 10.39	+18 28.7	1.614	2.576	6.5	21.9
3 2	9 1.29	+18 59.5	1.655	2.565	10.9	22.1
3 12	8 54.56	+19 17.7	1.719	2.553	14.8	22.3

288437 2004 ES_{32} 2 8.2 339°.79 4°.1/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.27	+ 6 0.4	1.893	2.662	15.7	19.3
1 12	9 45.20	+ 5 11.9	1.798	2.653	12.8	19.0
1 22	9 38.76	+ 4 35.7	1.724	2.645	9.3	18.8
2 1	9 30.48	+ 4 12.7	1.675	2.637	5.8	18.6
2 11	9 21.29	+ 4 1.9	1.654	2.629	4.1	18.5
2 21	9 12.24	+ 4 1.3	1.660	2.622	6.3	18.6
3 2	9 4.43	+ 4 7.5	1.694	2.616	9.9	18.8
3 12	8 58.70	+ 4 16.6	1.752	2.611	13.4	19.0

493734 2015 TK_{193} 2 8.2 85°.55 3°.7/ 6.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 58.30	+22 5.0	1.416	2.230	17.8	21.2
1 12	9 52.73	+22 40.1	1.358	2.248	13.7	21.0
1 22	9 43.87	+23 20.2	1.321	2.266	9.1	20.8
2 1	9 32.62	+23 57.1	1.309	2.284	4.7	20.6
2 11	9 20.51	+24 22.6	1.324	2.301	4.5	20.6
2 21	9 9.16	+24 31.6	1.367	2.319	8.6	20.9
3 2	9 0.03	+24 22.8	1.435	2.336	12.9	21.2
3 12	8 54.02	+23 58.0	1.524	2.352	16.6	21.5

351649 2005 YY_{123} 2 8.2 32°.28 0°.0/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.54	+15 16.1	1.265	2.081	19.5	20.1
1 12	9 50.22	+15 1.5	1.197	2.087	15.2	19.8
1 22	9 42.47	+14 57.9	1.148	2.094	10.0	19.6
2 1	9 32.12	+15 1.4	1.122	2.101	4.3	19.2
2 11	9 20.68	+15 6.8	1.123	2.108	1.7	19.1
2 21	9 9.82	+15 8.9	1.149	2.117	7.5	19.5
3 2	9 1.13	+15 4.5	1.200	2.125	12.8	19.8
3 12	8 55.62	+14 51.9	1.272	2.134	17.2	20.1

227601 2006 AB_{55} 2 8.2 14°.89 1°.1/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.43	+ 9 41.7	1.940	2.725	14.8	20.8
1 12	9 43.70	+10 4.8	1.854	2.725	11.6	20.6
1 22	9 37.71	+10 42.4	1.789	2.725	7.9	20.4
2 1	9 30.01	+11 31.4	1.751	2.726	3.7	20.1
2 11	9 21.50	+12 26.9	1.741	2.726	1.4	20.0
2 21	9 13.19	+13 23.0	1.760	2.727	5.4	20.2
3 2	9 6.09	+14 14.3	1.807	2.727	9.5	20.5
3 12	9 1.00	+14 56.7	1.878	2.728	13.0	20.7

371750 2007 EM_{223} 2 8.2 187°.40 6°.8/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.86	+33 27.5	2.129	2.932	13.1	20.5
1 12	9 49.54	+34 32.7	2.057	2.932	10.5	20.4
1 22	9 41.58	+35 34.0	2.009	2.931	8.1	20.2
2 1	9 31.65	+36 23.3	1.988	2.931	6.8	20.1
2 11	9 20.86	+36 53.5	1.995	2.930	7.5	20.2
2 21	9 10.44	+37 0.8	2.029	2.929	9.7	20.3
3 2	9 1.58	+36 44.9	2.088	2.927	12.2	20.5
3 12	8 55.13	+36 8.7	2.169	2.926	14.7	20.6

179767 2002 SK_{8} 2 8.2 41°.88 2°.7/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.93	+19 10.7	1.526	2.343	16.6	20.4
1 12	9 46.99	+19 51.9	1.457	2.350	12.8	20.1
1 22	9 40.13	+20 41.9	1.410	2.358	8.3	19.9
2 1	9 31.09	+21 33.7	1.388	2.366	3.9	19.6
2 11	9 21.11	+22 19.2	1.394	2.374	3.6	19.6
2 21	9 11.58	+22 52.0	1.426	2.382	7.8	19.9
3 2	9 3.82	+23 8.7	1.484	2.391	12.1	20.2
3 12	8 58.75	+23 8.6	1.563	2.400	15.9	20.4

462878 2010 VX_{149} 2 8.2 76°.80 6°.3/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.06	− 3 14.9	1.794	2.525	17.8	21.2
1 12	9 44.94	− 3 35.4	1.722	2.543	14.9	21.0
1 22	9 38.48	− 3 32.6	1.669	2.561	11.5	20.9
2 1	9 30.31	− 3 5.6	1.640	2.579	8.3	20.7
2 11	9 21.42	− 2 16.8	1.637	2.597	6.4	20.6
2 21	9 12.88	− 1 11.5	1.662	2.615	7.2	20.7
3 2	9 5.71	+ 0 3.1	1.713	2.632	10.0	20.9
3 12	9 0.67	+ 1 19.1	1.789	2.650	13.1	21.1

424802 2008 UR_{56} 2 8.2 119°.70 3°.0/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.87	+23 33.6	2.239	3.035	12.7	21.8
1 12	9 48.28	+24 0.5	2.165	3.046	9.8	21.6
1 22	9 40.48	+24 29.1	2.116	3.057	6.5	21.4
2 1	9 31.11	+24 54.3	2.095	3.067	3.6	21.3
2 11	9 21.12	+25 11.3	2.103	3.077	3.6	21.3
2 21	9 11.51	+25 16.7	2.142	3.087	6.5	21.5
3 2	9 3.25	+25 9.3	2.208	3.096	9.6	21.7
3 12	8 57.04	+24 49.7	2.299	3.106	12.5	21.9

97941 2000 QW_{117} 2 8.2 211°.72 3°.0/ 6.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.05	+20 28.0	1.904	2.704	14.5	19.8
1 12	9 49.07	+21 17.8	1.814	2.698	11.2	19.5
1 22	9 41.41	+22 15.1	1.748	2.691	7.4	19.3
2 1	9 31.66	+23 13.3	1.709	2.684	3.8	19.1
2 11	9 20.86	+24 4.9	1.699	2.676	3.8	19.0
2 21	9 10.24	+24 43.7	1.718	2.667	7.5	19.2
3 2	9 1.03	+25 6.3	1.764	2.657	11.4	19.5
3 12	8 54.21	+25 12.1	1.834	2.647	14.9	19.7

122497 2000 QM_{185} 2 8.2 125°.94 1°.9/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.81	+18 0.2	2.213	3.006	12.9	20.6
1 12	9 45.96	+18 50.4	2.139	3.020	9.9	20.4
1 22	9 39.00	+19 47.8	2.090	3.033	6.4	20.2
2 1	9 30.51	+20 47.0	2.069	3.046	2.9	20.0
2 11	9 21.36	+21 42.2	2.078	3.058	2.6	20.0
2 21	9 12.50	+22 28.3	2.117	3.070	5.9	20.2
3 2	9 4.87	+23 2.0	2.185	3.082	9.3	20.5
3 12	8 59.16	+23 22.2	2.277	3.093	12.3	20.7

416034 2002 EA_{27} 2 8.2 117°.65 1°.6/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.03	+18 5.7	1.967	2.766	14.1	21.3
1 12	9 46.46	+18 28.7	1.884	2.767	10.9	21.1
1 22	9 39.51	+18 58.7	1.824	2.768	7.1	20.8
2 1	9 30.79	+19 31.2	1.792	2.770	3.1	20.6
2 11	9 21.25	+20 0.6	1.788	2.771	2.3	20.5
2 21	9 12.00	+20 22.5	1.813	2.772	6.2	20.8
3 2	9 4.09	+20 33.9	1.866	2.773	10.1	21.0
3 12	8 58.34	+20 33.7	1.943	2.774	13.5	21.2

521196 2015 FA_{413} 2 8.2 19°.81 11°.9/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.10	−19 47.4	1.804	2.443	20.5	20.1
1 12	9 39.81	−20 25.2	1.729	2.452	18.6	20.0
1 22	9 35.25	−20 29.5	1.667	2.463	16.4	19.9
2 1	9 28.99	−19 55.3	1.624	2.474	14.3	19.7
2 11	9 21.96	−18 42.0	1.602	2.487	12.6	19.6
2 21	9 15.18	−16 53.5	1.602	2.500	11.9	19.6
3 2	9 9.68	−14 38.6	1.627	2.514	12.6	19.7
3 12	9 6.23	−12 9.3	1.676	2.529	14.2	19.8

131963 2002 CT_{49} 2 8.2 85°.87 4°.2/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.93	+ 3 14.6	1.551	2.320	18.6	20.0
1 12	9 46.77	+ 3 8.9	1.479	2.334	15.0	19.8
1 22	9 39.89	+ 3 24.9	1.427	2.347	10.9	19.6
2 1	9 30.98	+ 4 1.5	1.398	2.361	6.6	19.4
2 11	9 21.19	+ 4 54.7	1.396	2.374	4.2	19.3
2 21	9 11.80	+ 5 57.6	1.422	2.387	6.6	19.5
3 2	9 4.01	+ 7 2.7	1.474	2.400	10.7	19.7
3 12	8 58.74	+ 8 3.0	1.549	2.413	14.6	20.0

506870 2007 YK_{16} 2 8.2 98°.45 2°.6/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.58	+ 5 45.9	2.464	3.218	12.9	21.9
1 12	9 43.22	+ 5 39.8	2.379	3.228	10.3	21.7
1 22	9 37.10	+ 5 46.0	2.318	3.238	7.3	21.5
2 1	9 29.69	+ 6 3.4	2.283	3.247	4.3	21.3
2 11	9 21.73	+ 6 29.4	2.278	3.257	2.6	21.2
2 21	9 13.98	+ 7 0.8	2.302	3.266	4.6	21.4
3 2	9 7.21	+ 7 33.9	2.356	3.275	7.6	21.6
3 12	9 2.01	+ 8 5.2	2.435	3.285	10.5	21.8

181652 2007 VO_{11} 2 8.2 102°.48 4°.1/ 4.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.99	+25 45.6	2.477	3.280	11.4	20.5
1 12	9 44.48	+26 58.3	2.412	3.295	8.8	20.3
1 22	9 38.00	+28 12.6	2.372	3.310	6.1	20.2
2 1	9 30.09	+29 22.1	2.361	3.324	4.2	20.1
2 11	9 21.58	+30 20.7	2.380	3.338	4.8	20.1
2 21	9 13.34	+31 4.4	2.428	3.352	7.0	20.3
3 2	9 6.22	+31 31.0	2.503	3.366	9.6	20.5
3 12	9 0.88	+31 40.9	2.602	3.379	12.0	20.6

316716 1997 WS_{6} 2 8.2 193°.42 3°.1/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.36	+ 5 5.8	1.842	2.605	16.3	22.0
1 12	9 46.89	+ 5 7.1	1.750	2.604	13.1	21.8
1 22	9 39.93	+ 5 26.1	1.679	2.602	9.4	21.5
2 1	9 31.04	+ 6 1.6	1.634	2.600	5.4	21.3
2 11	9 21.18	+ 6 50.0	1.617	2.597	3.1	21.1
2 21	9 11.49	+ 7 45.7	1.628	2.594	6.0	21.3
3 2	9 3.10	+ 8 42.6	1.668	2.590	10.0	21.5
3 12	8 56.91	+ 9 35.0	1.731	2.586	13.8	21.7

422195 2014 RK_{42} 2 8.2 208°.47 1°.1/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.66	+ 9 47.9	2.080	2.851	14.4	22.6
1 12	9 46.90	+10 8.2	1.981	2.845	11.3	22.4
1 22	9 39.84	+10 42.1	1.906	2.839	7.7	22.1
2 1	9 30.98	+11 26.8	1.857	2.831	3.6	21.8
2 11	9 21.21	+12 17.7	1.838	2.823	1.4	21.7
2 21	9 11.54	+13 9.6	1.849	2.814	5.4	21.9
3 2	9 3.01	+13 57.3	1.889	2.805	9.4	22.1
3 12	8 56.49	+14 37.0	1.953	2.794	13.0	22.3

497111 2004 DE_{64} 2 8.2 334°.76 5°.4/ 5.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.54	+28 51.0	1.762	2.577	14.8	20.3
1 12	9 48.98	+29 12.7	1.675	2.562	11.7	20.1
1 22	9 41.48	+29 32.4	1.610	2.548	8.4	19.8
2 1	9 31.73	+29 42.8	1.571	2.535	5.7	19.7
2 11	9 20.93	+29 37.4	1.559	2.523	6.0	19.6
2 21	9 10.47	+29 12.5	1.574	2.511	9.1	19.8
3 2	9 1.72	+28 28.2	1.614	2.500	12.7	20.0
3 12	8 55.66	+27 27.2	1.677	2.490	16.0	20.2

235554 2004 EO_{85} 2 8.2 297°.08 2°.9/ 5.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.36	+21 56.1	2.225	3.030	12.5	20.3
1 12	9 44.31	+22 37.2	2.134	3.021	9.6	20.1
1 22	9 38.08	+23 23.0	2.068	3.011	6.4	19.9
2 1	9 30.21	+24 8.2	2.029	3.002	3.5	19.7
2 11	9 21.53	+24 47.1	2.019	2.993	3.6	19.6
2 21	9 13.01	+25 15.2	2.038	2.984	6.6	19.8
3 2	9 5.63	+25 29.6	2.084	2.976	10.0	20.0
3 12	9 0.16	+25 29.8	2.154	2.967	13.0	20.2

59241 1999 CC_{4} 2 8.2 10°.92 0°.0/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.59	+11 7.9	1.219	2.041	19.7	18.0
1 12	9 44.28	+11 49.3	1.148	2.042	15.4	17.7
1 22	9 38.74	+12 52.5	1.097	2.044	10.2	17.4
2 1	9 30.66	+14 11.7	1.068	2.047	4.4	17.1
2 11	9 21.35	+15 37.1	1.064	2.050	1.7	16.9
2 21	9 12.41	+16 57.9	1.086	2.054	7.7	17.3
3 2	9 5.39	+18 5.1	1.132	2.059	13.1	17.6
3 12	9 1.37	+18 53.4	1.198	2.065	17.7	17.9

299518 2006 CX_{63} 2 8.2 259°.95 1°.0/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.89	+11 17.7	1.525	2.322	17.6	21.4
1 12	9 47.90	+11 24.5	1.436	2.315	13.9	21.1
1 22	9 40.93	+11 46.7	1.367	2.307	9.4	20.8
2 1	9 31.57	+12 21.3	1.323	2.300	4.3	20.5
2 11	9 20.98	+13 2.7	1.306	2.292	1.6	20.3
2 21	9 10.56	+13 44.4	1.317	2.284	6.8	20.6
3 2	9 1.75	+14 20.5	1.353	2.276	11.8	20.9
3 12	8 55.63	+14 46.9	1.411	2.268	16.2	21.1

354029 2001 RK_{16} 2 8.2 169°.49 0°.3/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.52	+10 48.7	1.923	2.702	15.1	21.9
1 12	9 47.67	+11 30.2	1.837	2.707	11.8	21.7
1 22	9 40.37	+12 26.5	1.774	2.711	7.9	21.5
2 1	9 31.21	+13 33.5	1.738	2.714	3.4	21.2
2 11	9 21.15	+14 44.6	1.731	2.717	1.2	21.0
2 21	9 11.30	+15 53.2	1.755	2.719	5.8	21.4
3 2	9 2.77	+16 53.3	1.807	2.720	10.0	21.6
3 12	8 56.43	+17 41.2	1.883	2.720	13.6	21.8

30834 1990 VR_6 2 8.2 50°.72 0°.2/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.87	+11 28.4	1.402	2.212	18.3	17.9
1 12	9 45.62	+12 17.7	1.331	2.218	14.2	17.7
1 22	9 39.38	+13 26.2	1.280	2.225	9.4	17.4
2 1	9 30.87	+14 47.8	1.254	2.232	4.0	17.1
2 11	9 21.29	+16 13.5	1.254	2.240	1.7	17.0
2 21	9 12.09	+17 33.4	1.281	2.247	7.2	17.3
3 2	9 4.63	+18 39.8	1.334	2.255	12.1	17.6
3 12	8 59.91	+19 28.5	1.409	2.263	16.3	17.9

137010 1998 ST_{121} 2 8.2 89°.27 0°.2/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.69	+13 48.7	1.851	2.637	15.4	20.6
1 12	9 49.09	+14 10.8	1.790	2.665	11.8	20.4
1 22	9 41.08	+14 43.1	1.752	2.692	7.7	20.2
2 1	9 31.40	+15 21.3	1.742	2.719	3.2	20.0
2 11	9 21.13	+15 59.8	1.760	2.746	1.4	19.9
2 21	9 11.40	+16 33.6	1.808	2.771	5.7	20.3
3 2	9 3.23	+16 59.3	1.884	2.797	9.7	20.5
3 12	8 57.35	+17 14.9	1.985	2.821	13.0	20.8

285321 1999 CT_{57} 2 8.2 337°.41 5°.5/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.02	+27 45.0	1.467	2.295	16.6	18.9
1 12	9 48.51	+27 55.6	1.373	2.269	13.2	18.6
1 22	9 41.60	+28 4.5	1.300	2.244	9.3	18.3
2 1	9 31.93	+28 4.0	1.251	2.221	6.0	18.1
2 11	9 20.85	+27 46.3	1.227	2.198	6.2	18.0
2 21	9 10.00	+27 7.4	1.229	2.177	9.9	18.2
3 2	9 1.06	+26 7.1	1.255	2.158	14.3	18.4
3 12	8 55.23	+24 49.2	1.302	2.141	18.4	18.6

185626 2008 CU_{175} 2 8.2 176°.37 4°.5/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.70	+27 26.5	2.195	2.991	12.9	20.1
1 12	9 50.70	+28 7.7	2.115	2.993	10.1	20.0
1 22	9 42.24	+28 48.6	2.060	2.995	7.1	19.8
2 1	9 31.96	+29 22.7	2.032	2.996	4.8	19.6
2 11	9 20.89	+29 43.9	2.035	2.996	5.1	19.7
2 21	9 10.18	+29 48.7	2.066	2.996	7.7	19.8
3 2	9 0.90	+29 36.1	2.125	2.996	10.8	20.0
3 12	8 53.89	+29 7.9	2.208	2.995	13.6	20.2

413135 2001 YZ_{25} 2 8.2 357°.39 4°.9/ 5.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.52	+22 37.3	1.364	2.201	17.1	20.1
1 12	9 44.13	+23 41.5	1.294	2.197	13.2	19.8
1 22	9 38.58	+24 53.8	1.244	2.194	8.9	19.6
2 1	9 30.58	+26 4.7	1.219	2.192	5.4	19.4
2 11	9 21.41	+27 3.6	1.219	2.192	5.9	19.4
2 21	9 12.63	+27 42.6	1.244	2.192	9.8	19.6
3 2	9 5.70	+27 57.9	1.293	2.193	14.1	19.9
3 12	9 1.69	+27 50.1	1.361	2.196	17.9	20.1

132056 2002 CA_{141} 2 8.2 265°.85 3°.1/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.42	+ 5 48.2	1.761	2.532	16.6	20.1
1 12	9 46.52	+ 5 45.8	1.654	2.513	13.5	19.9
1 22	9 39.94	+ 6 1.1	1.567	2.493	9.7	19.6
2 1	9 31.17	+ 6 33.8	1.505	2.473	5.5	19.3
2 11	9 21.14	+ 7 20.5	1.471	2.452	3.1	19.1
2 21	9 11.05	+ 8 15.8	1.464	2.431	6.4	19.2
3 2	9 2.18	+ 9 13.1	1.485	2.409	10.9	19.4
3 12	8 55.61	+10 6.3	1.530	2.387	15.1	19.6

58727 1998 DA_{21} 2 8.2 30°.44 0°.2/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.09	+12 51.1	1.022	1.858	21.6	18.5
1 12	9 45.61	+13 18.3	0.975	1.877	16.7	18.3
1 22	9 39.56	+14 4.8	0.947	1.897	10.9	18.1
2 1	9 30.93	+15 3.4	0.940	1.919	4.6	17.8
2 11	9 21.34	+16 4.2	0.956	1.942	1.9	17.7
2 21	9 12.58	+16 57.4	0.997	1.966	8.0	18.1
3 2	9 6.17	+17 36.4	1.060	1.991	13.4	18.5
3 12	9 3.02	+17 58.0	1.143	2.017	17.9	18.8

179012 2001 RH_{57} 2 8.2 218°.93 0°.1/ 8.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.90	+12 4.1	2.225	3.004	13.3	21.4
1 12	9 45.44	+12 37.6	2.125	2.996	10.4	21.2
1 22	9 38.83	+13 23.1	2.049	2.987	6.9	20.9
2 1	9 30.56	+14 17.1	2.001	2.977	3.0	20.7
2 11	9 21.43	+15 14.6	1.982	2.967	1.1	20.5
2 21	9 12.38	+16 10.2	1.993	2.957	5.3	20.8
3 2	9 4.38	+16 59.1	2.034	2.946	9.1	21.0
3 12	8 58.22	+17 38.0	2.100	2.934	12.5	21.2

121319 1999 RN_{247} 2 8.2 116°.63 0°.2/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.05	+11 1.6	2.355	3.129	12.8	21.1
1 12	9 44.44	+11 45.9	2.279	3.147	9.9	20.9
1 22	9 37.94	+12 41.6	2.228	3.164	6.5	20.7
2 1	9 30.09	+13 44.9	2.205	3.181	2.8	20.5
2 11	9 21.65	+14 50.7	2.212	3.198	1.0	20.4
2 21	9 13.48	+15 53.7	2.250	3.214	4.7	20.7
3 2	9 6.38	+16 49.5	2.318	3.229	8.2	20.9
3 12	9 0.98	+17 35.2	2.411	3.244	11.1	21.2

331263 2011 CK_{47} 2 8.2 176°.96 0°.8/ 8.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.27	+11 21.3	2.235	3.010	13.4	21.9
1 12	9 45.58	+11 31.1	2.145	3.012	10.5	21.7
1 22	9 38.82	+11 51.3	2.078	3.013	7.0	21.5
2 1	9 30.51	+12 19.4	2.038	3.013	3.2	21.3
2 11	9 21.48	+12 51.7	2.028	3.014	1.2	21.1
2 21	9 12.64	+13 24.0	2.048	3.014	4.9	21.4
3 2	9 4.91	+13 52.5	2.097	3.013	8.6	21.6
3 12	8 59.01	+14 14.6	2.171	3.012	11.9	21.8

301819 2011 PE_6 2 8.2 218°.22 0°.7/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.07	+16 53.6	2.879	3.660	10.6	21.8
1 12	9 44.26	+17 8.5	2.779	3.652	8.2	21.6
1 22	9 37.76	+17 28.4	2.705	3.645	5.3	21.4
2 1	9 30.02	+17 50.7	2.659	3.637	2.3	21.2
2 11	9 21.68	+18 12.0	2.644	3.628	1.4	21.1
2 21	9 13.46	+18 29.5	2.661	3.620	4.5	21.3
3 2	9 6.09	+18 40.9	2.707	3.611	7.5	21.5
3 12	9 0.16	+18 44.8	2.779	3.601	10.1	21.7

337809 2001 UG_{227} 2 8.2 185°.43 4°.6/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.70	+29 46.8	2.726	3.524	10.6	21.5
1 12	9 45.74	+30 42.6	2.647	3.524	8.4	21.3
1 22	9 38.83	+31 37.4	2.594	3.523	6.1	21.2
2 1	9 30.49	+32 25.3	2.569	3.522	4.7	21.1
2 11	9 21.50	+33 1.3	2.573	3.521	5.2	21.1
2 21	9 12.72	+33 22.0	2.607	3.520	7.2	21.2
3 2	9 5.00	+33 26.1	2.668	3.518	9.5	21.4
3 12	8 59.02	+33 14.5	2.753	3.516	11.7	21.5

431631 2007 WJ_{49} 2 8.2 105°.67 6°.4/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.36	− 7 1.6	2.500	3.188	14.3	21.1
1 12	9 42.35	− 7 32.1	2.411	3.195	12.3	21.0
1 22	9 36.59	− 7 44.0	2.342	3.203	10.0	20.8
2 1	9 29.54	− 7 35.8	2.297	3.210	7.8	20.7
2 11	9 21.89	− 7 8.3	2.280	3.217	6.5	20.6
2 21	9 14.40	− 6 24.1	2.290	3.224	6.8	20.7
3 2	9 7.81	− 5 27.6	2.328	3.231	8.5	20.8
3 12	9 2.76	− 4 24.6	2.392	3.238	10.7	20.9

85384 1996 NZ 2 8.2 243°.85 0°.1/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.18	+12 48.8	2.055	2.841	14.1	20.2
1 12	9 45.86	+13 9.8	1.956	2.829	11.0	20.0
1 22	9 39.22	+13 42.3	1.879	2.818	7.3	19.8
2 1	9 30.77	+14 22.9	1.829	2.806	3.2	19.5
2 11	9 21.38	+15 6.8	1.808	2.794	1.2	19.3
2 21	9 12.09	+15 48.9	1.817	2.782	5.6	19.6
3 2	9 3.94	+16 24.7	1.854	2.769	9.7	19.8
3 12	8 57.79	+16 51.0	1.916	2.756	13.3	20.0

501072 2013 SX_{45} 2 8.2 152°.22 3°.4/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.99	+ 2 16.8	2.479	3.213	13.3	22.6
1 12	9 44.34	+ 2 16.3	2.389	3.222	10.8	22.4
1 22	9 37.88	+ 2 30.6	2.322	3.230	7.9	22.2
2 1	9 30.10	+ 2 58.9	2.281	3.237	5.0	22.1
2 11	9 21.70	+ 3 38.8	2.270	3.244	3.4	22.0
2 21	9 13.48	+ 4 26.4	2.289	3.250	4.9	22.1
3 2	9 6.22	+ 5 17.5	2.338	3.255	7.8	22.3
3 12	9 0.55	+ 6 7.4	2.413	3.260	10.6	22.4

42261 2001 OC_{92} 2 8.2 116°.87 1°.2/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.25	+18 11.7	2.089	2.875	13.9	19.3
1 12	9 50.15	+18 22.5	2.016	2.892	10.6	19.1
1 22	9 41.76	+18 38.6	1.968	2.909	6.9	18.9
2 1	9 31.73	+18 55.9	1.948	2.925	3.0	18.7
2 11	9 21.09	+19 9.9	1.958	2.941	2.0	18.6
2 21	9 10.89	+19 17.3	1.998	2.957	5.7	18.9
3 2	9 2.14	+19 16.0	2.067	2.971	9.4	19.2
3 12	8 55.55	+19 5.8	2.161	2.986	12.5	19.4

461960 2006 UR_{61} 2 8.2 106°.04 7°.8/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.52	− 6 29.5	1.946	2.649	17.4	20.8
1 12	9 46.01	− 7 18.6	1.866	2.661	14.9	20.6
1 22	9 39.22	− 7 45.5	1.805	2.673	12.1	20.4
2 1	9 30.73	− 7 47.6	1.767	2.684	9.5	20.3
2 11	9 21.46	− 7 25.1	1.755	2.695	7.9	20.2
2 21	9 12.43	− 6 41.3	1.770	2.706	8.3	20.3
3 2	9 4.67	− 5 41.9	1.811	2.717	10.4	20.4
3 12	8 58.96	− 4 34.6	1.877	2.727	13.1	20.6

412650 2014 OQ_{189} 2 8.2 176°.39 0°.1/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.88	+12 52.9	2.130	2.910	13.8	22.2
1 12	9 46.97	+13 24.7	2.041	2.913	10.7	21.9
1 22	9 39.82	+14 7.6	1.976	2.915	7.1	21.7
2 1	9 31.00	+14 57.9	1.939	2.916	3.0	21.5
2 11	9 21.37	+15 50.3	1.931	2.917	1.2	21.3
2 21	9 11.93	+16 39.4	1.954	2.916	5.4	21.6
3 2	9 3.69	+17 20.9	2.005	2.916	9.3	21.9
3 12	8 57.41	+17 52.0	2.081	2.914	12.6	22.1

343987 2011 OK_{12} 2 8.2 66°.47 2°.4/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.11	+ 7 31.0	2.336	3.097	13.3	20.3
1 12	9 44.54	+ 7 11.9	2.249	3.103	10.6	20.1
1 22	9 38.06	+ 7 3.7	2.186	3.110	7.5	19.9
2 1	9 30.19	+ 7 5.6	2.150	3.116	4.2	19.7
2 11	9 21.70	+ 7 15.4	2.142	3.123	2.5	19.6
2 21	9 13.45	+ 7 30.5	2.165	3.129	4.8	19.8
3 2	9 6.24	+ 7 47.4	2.216	3.136	8.0	20.0
3 12	9 0.73	+ 8 3.2	2.293	3.143	11.0	20.2

396826 2004 RN_{93} 2 8.2 173°.51 3°.1/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.45	+ 4 46.1	1.934	2.690	15.8	22.2
1 12	9 47.59	+ 4 48.7	1.844	2.694	12.8	22.0
1 22	9 40.34	+ 5 8.4	1.776	2.697	9.1	21.8
2 1	9 31.26	+ 5 44.0	1.734	2.699	5.3	21.6
2 11	9 21.28	+ 6 32.0	1.720	2.700	3.1	21.4
2 21	9 11.51	+ 7 26.9	1.736	2.700	5.7	21.6
3 2	9 3.01	+ 8 23.0	1.780	2.700	9.6	21.8
3 12	8 56.63	+ 9 14.8	1.849	2.699	13.2	22.1

399303 2014 HG_{186} 2 8.2 222°.87 1°.3/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.52	+ 7 56.7	1.827	2.601	16.0	22.1
1 12	9 47.23	+ 8 33.2	1.726	2.591	12.7	21.8
1 22	9 40.34	+ 9 28.4	1.648	2.581	8.7	21.5
2 1	9 31.36	+10 39.5	1.595	2.569	4.2	21.2
2 11	9 21.23	+12 0.3	1.572	2.557	1.6	21.0
2 21	9 11.14	+13 23.2	1.578	2.544	6.0	21.3
3 2	9 2.29	+14 40.7	1.612	2.531	10.6	21.5
3 12	8 55.69	+15 47.1	1.670	2.516	14.6	21.7

284974 2010 GV_{26} 2 8.2 230°.72 1°.0/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.94	+ 9 3.4	2.538	3.306	12.1	21.0
1 12	9 42.10	+ 9 30.0	2.439	3.301	9.6	20.9
1 22	9 36.50	+10 8.5	2.364	3.295	6.5	20.7
2 1	9 29.56	+10 56.6	2.316	3.290	3.1	20.4
2 11	9 21.97	+11 50.4	2.299	3.284	1.2	20.3
2 21	9 14.48	+12 45.5	2.312	3.278	4.4	20.5
3 2	9 7.84	+13 37.6	2.354	3.271	7.7	20.7
3 12	9 2.72	+14 23.1	2.422	3.265	10.7	20.9

20147 1996 SV_{7} 2 8.2 115°.93 1°.6/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.09	+ 9 50.1	1.765	2.543	16.3	18.8
1 12	9 48.93	+ 9 49.5	1.690	2.557	12.8	18.6
1 22	9 41.21	+10 2.6	1.637	2.571	8.7	18.4
2 1	9 31.60	+10 26.8	1.610	2.584	4.3	18.2
2 11	9 21.20	+10 57.7	1.612	2.596	1.8	18.0
2 21	9 11.20	+11 30.3	1.642	2.608	5.8	18.3
3 2	9 2.72	+12 0.1	1.700	2.620	10.0	18.6
3 12	8 56.61	+12 23.4	1.782	2.631	13.7	18.8

341413 2007 TW_{184} 2 8.2 23°.33 4°.0/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.19	+ 0 52.4	2.163	2.908	14.7	20.7
1 12	9 41.77	+ 0 57.3	2.072	2.910	12.0	20.5
1 22	9 36.39	+ 1 20.5	2.003	2.912	9.0	20.3
2 1	9 29.54	+ 2 1.5	1.959	2.914	5.9	20.1
2 11	9 21.99	+ 2 57.3	1.943	2.916	4.0	20.0
2 21	9 14.59	+ 4 3.1	1.956	2.918	5.5	20.1
3 2	9 8.22	+ 5 13.1	1.997	2.921	8.5	20.3
3 12	9 3.57	+ 6 21.4	2.063	2.923	11.6	20.5

104526 2000 GE_{51} 2 8.2 215°.46 4°.5/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.81	+26 12.1	2.129	2.931	13.1	20.6
1 12	9 48.71	+27 6.8	2.043	2.925	10.2	20.4
1 22	9 41.12	+28 3.6	1.981	2.918	7.1	20.2
2 1	9 31.61	+28 55.5	1.946	2.911	4.8	20.1
2 11	9 21.18	+29 35.6	1.941	2.904	5.2	20.1
2 21	9 10.96	+29 59.0	1.964	2.895	8.0	20.2
3 2	9 2.09	+30 3.8	2.015	2.887	11.2	20.4
3 12	8 55.43	+29 50.9	2.088	2.878	14.1	20.6

98800 2000 YN_{114} 2 8.2 82°.34 1°.5/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.55	+17 25.9	1.962	2.761	14.1	19.9
1 12	9 46.07	+17 55.7	1.887	2.770	10.9	19.7
1 22	9 39.27	+18 33.2	1.835	2.779	7.1	19.5
2 1	9 30.77	+19 13.6	1.810	2.788	3.1	19.2
2 11	9 21.53	+19 51.2	1.815	2.797	2.3	19.2
2 21	9 12.64	+20 21.3	1.848	2.806	6.1	19.4
3 2	9 5.10	+20 40.6	1.908	2.816	9.9	19.7
3 12	8 59.67	+20 47.9	1.993	2.825	13.2	19.9

95713 2003 AJ_{60} 2 8.2 312°.09 5°.0/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.20	+25 57.1	1.623	2.442	15.7	18.9
1 12	9 49.08	+26 31.5	1.532	2.423	12.4	18.7
1 22	9 41.82	+27 8.2	1.462	2.405	8.6	18.4
2 1	9 32.05	+27 39.4	1.418	2.387	5.5	18.2
2 11	9 20.99	+27 57.0	1.401	2.370	5.8	18.2
2 21	9 10.13	+27 55.4	1.410	2.353	9.3	18.3
3 2	9 0.99	+27 32.8	1.444	2.337	13.4	18.5
3 12	8 54.70	+26 51.3	1.499	2.321	17.2	18.7

241377 2008 RK_{120} 2 8.2 325°.82 2°.5/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.95	+ 7 55.5	1.429	2.225	18.7	21.4
1 12	9 46.52	+ 7 52.6	1.346	2.221	14.9	21.1
1 22	9 40.09	+ 8 8.5	1.282	2.217	10.4	20.8
2 1	9 31.29	+ 8 41.8	1.242	2.214	5.5	20.5
2 11	9 21.29	+ 9 27.5	1.227	2.211	2.7	20.4
2 21	9 11.52	+10 18.8	1.239	2.208	6.8	20.6
3 2	9 3.40	+11 8.6	1.277	2.206	11.8	20.9
3 12	8 58.02	+11 50.8	1.336	2.203	16.3	21.1

195294 2002 EE_{86} 2 8.2 311°.42 3°.3/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.42	+ 3 45.9	1.830	2.600	16.1	20.3
1 12	9 42.45	+ 3 58.7	1.732	2.588	13.1	20.0
1 22	9 37.13	+ 4 31.7	1.654	2.577	9.5	19.8
2 1	9 29.96	+ 5 24.0	1.601	2.566	5.6	19.5
2 11	9 21.81	+ 6 31.5	1.575	2.555	3.3	19.3
2 21	9 13.73	+ 7 48.1	1.577	2.545	5.9	19.5
3 2	9 6.81	+ 9 6.3	1.607	2.534	9.9	19.7
3 12	9 1.94	+10 19.2	1.660	2.524	13.8	19.9

30699 2356 $T\text{-}_{3}$ 2 8.2 0°.76 2°.0/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.22	+ 9 19.0	1.282	2.091	19.7	18.1
1 12	9 46.23	+ 9 18.9	1.206	2.090	15.6	17.9
1 22	9 40.02	+ 9 38.4	1.149	2.089	10.7	17.6
2 1	9 31.28	+10 14.8	1.114	2.089	5.3	17.3
2 11	9 21.31	+11 2.4	1.104	2.089	2.2	17.1
2 21	9 11.66	+11 53.3	1.120	2.090	7.2	17.4
3 2	9 3.87	+12 40.1	1.161	2.092	12.5	17.7
3 12	8 59.03	+13 17.0	1.222	2.094	17.1	17.9

234042 1999 AH_{32} 2 8.2 286°.32 0°.6/ 7.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.42	+14 50.3	2.186	2.979	13.1	21.0
1 12	9 43.62	+15 19.4	2.088	2.967	10.1	20.8
1 22	9 37.70	+15 58.3	2.013	2.955	6.7	20.6
2 1	9 30.15	+16 43.3	1.966	2.944	2.8	20.3
2 11	9 21.76	+17 29.3	1.948	2.932	1.5	20.2
2 21	9 13.48	+18 11.4	1.959	2.921	5.5	20.4
3 2	9 6.24	+18 45.6	1.998	2.909	9.3	20.6
3 12	9 0.84	+19 9.2	2.061	2.898	12.6	20.8

282134 2001 QU_{114} 2 8.2 175°.20 2°.2/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.85	+ 7 50.3	1.872	2.639	15.9	21.6
1 12	9 48.76	+ 7 53.3	1.783	2.642	12.7	21.4
1 22	9 41.16	+ 8 11.3	1.716	2.645	8.8	21.2
2 1	9 31.64	+ 8 42.5	1.676	2.646	4.6	20.9
2 11	9 21.19	+ 9 22.8	1.664	2.647	2.3	20.8
2 21	9 10.96	+10 6.9	1.681	2.647	5.8	21.0
3 2	9 2.09	+10 49.6	1.727	2.647	9.9	21.2
3 12	8 55.46	+11 26.5	1.797	2.645	13.6	21.5

83317 2001 RQ_{121} 2 8.2 70°.68 0°.6/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.50	+14 49.2	2.234	3.026	12.9	19.3
1 12	9 43.47	+15 20.2	2.154	3.033	9.9	19.1
1 22	9 37.45	+16 0.2	2.097	3.039	6.5	18.9
2 1	9 29.98	+16 45.2	2.068	3.046	2.7	18.7
2 11	9 21.86	+17 30.5	2.069	3.053	1.5	18.6
2 21	9 13.97	+18 11.2	2.099	3.060	5.2	18.9
3 2	9 7.19	+18 44.0	2.157	3.067	8.7	19.1
3 12	9 2.18	+19 6.5	2.240	3.075	11.8	19.3

42289 2001 TY_{105} 2 8.2 120°.76 2°.5/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.66	+19 4.6	1.656	2.460	16.1	18.2
1 12	9 50.42	+19 43.6	1.587	2.472	12.4	18.0
1 22	9 42.33	+20 30.5	1.540	2.485	8.1	17.8
2 1	9 32.12	+21 18.6	1.519	2.496	3.8	17.5
2 11	9 21.03	+22 0.5	1.527	2.507	3.3	17.5
2 21	9 10.42	+22 30.2	1.563	2.518	7.4	17.8
3 2	9 1.57	+22 44.9	1.626	2.529	11.6	18.1
3 12	8 55.37	+22 44.3	1.711	2.538	15.2	18.3

401094 2011 UT_{170} 2 8.2 215°.55 0°.9/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.48	+16 22.7	1.756	2.550	15.7	21.9
1 12	9 50.33	+16 34.5	1.665	2.545	12.3	21.7
1 22	9 42.36	+16 55.1	1.597	2.539	8.1	21.4
2 1	9 32.21	+17 20.3	1.555	2.533	3.4	21.1
2 11	9 20.97	+17 44.5	1.542	2.527	1.9	21.0
2 21	9 9.95	+18 2.7	1.558	2.520	6.6	21.3
3 2	9 0.48	+18 11.4	1.600	2.512	11.1	21.5
3 12	8 53.52	+18 9.2	1.667	2.504	15.0	21.7

420124 2011 FP_{36} 2 8.2 55°.05 9°.5/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 58.19	+40 8.6	1.865	2.665	14.7	20.1
1 12	9 52.57	+41 23.1	1.814	2.676	12.4	20.0
1 22	9 43.78	+42 26.8	1.786	2.687	10.4	19.9
2 1	9 32.72	+43 9.6	1.783	2.698	9.5	19.8
2 11	9 20.83	+43 24.2	1.805	2.710	10.2	19.9
2 21	9 9.68	+43 8.1	1.853	2.722	12.1	20.0
3 2	9 0.64	+42 23.7	1.923	2.733	14.3	20.2
3 12	8 54.59	+41 16.7	2.013	2.746	16.4	20.4

188350 2003 UA_5 2 8.2 148°.58 16°.9/26.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	10 7.16	+46 11.1	1.236	2.043	20.4	19.6
1 12	10 2.52	+49 27.1	1.202	2.050	18.2	19.5
1 22	9 52.14	+52 24.2	1.188	2.057	17.0	19.4
2 1	9 36.85	+54 40.2	1.196	2.063	17.2	19.5
2 11	9 19.13	+55 58.6	1.225	2.068	18.5	19.6
2 21	9 2.38	+56 15.2	1.272	2.073	20.6	19.7
3 2	8 49.61	+55 37.4	1.335	2.077	22.8	19.9
3 12	8 42.45	+54 19.0	1.411	2.081	24.7	20.1

444328 2005 WR_{40} 2 8.2 51°.46 4°.3/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.21	+20 37.5	1.272	2.102	18.6	20.7
1 12	9 48.58	+21 43.7	1.213	2.112	14.3	20.5
1 22	9 41.52	+22 59.7	1.174	2.123	9.4	20.2
2 1	9 31.88	+24 15.4	1.159	2.134	5.1	20.0
2 11	9 21.13	+25 19.6	1.170	2.146	5.2	20.0
2 21	9 10.98	+26 3.7	1.206	2.157	9.6	20.3
3 2	9 2.99	+26 24.4	1.266	2.170	14.1	20.6
3 12	8 58.18	+26 22.3	1.346	2.182	18.0	20.9

473639 2015 XN_{315} 2 8.2 51°.36 0°.0/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.99	+13 0.5	1.330	2.142	18.9	21.2
1 12	9 48.01	+13 17.0	1.270	2.158	14.7	21.0
1 22	9 40.92	+13 48.6	1.230	2.175	9.7	20.8
2 1	9 31.55	+14 30.3	1.213	2.192	4.1	20.5
2 11	9 21.27	+15 14.7	1.223	2.209	1.6	20.4
2 21	9 11.61	+15 54.8	1.260	2.227	7.0	20.8
3 2	9 3.91	+16 25.2	1.321	2.245	12.0	21.1
3 12	8 59.11	+16 43.0	1.404	2.263	16.1	21.4

497251 2005 GQ_{135} 2 8.2 189°.75 6°.1/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.80	+32 46.7	2.428	3.231	11.6	21.3
1 12	9 46.21	+34 4.0	2.356	3.231	9.3	21.1
1 22	9 39.37	+35 18.9	2.308	3.230	7.2	21.0
2 1	9 30.84	+36 23.9	2.289	3.229	6.2	20.9
2 11	9 21.53	+37 12.6	2.297	3.229	6.9	21.0
2 21	9 12.44	+37 41.0	2.334	3.227	8.8	21.1
3 2	9 4.59	+37 47.9	2.396	3.226	11.2	21.2
3 12	8 58.74	+37 35.0	2.480	3.225	13.3	21.4

8829 Buczkowski 2 8.2 323°.12 0°.2/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.79	+12 16.4	2.194	2.983	13.2	17.5
1 12	9 42.30	+12 39.9	2.099	2.975	10.3	17.3
1 22	9 36.80	+13 14.4	2.028	2.968	6.8	17.1
2 1	9 29.75	+13 57.1	1.983	2.960	3.0	16.8
2 11	9 21.95	+14 43.4	1.968	2.953	1.1	16.7
2 21	9 14.27	+15 28.4	1.981	2.947	5.1	17.0
3 2	9 7.62	+16 8.0	2.023	2.940	8.8	17.2
3 12	9 2.74	+16 38.8	2.089	2.934	12.1	17.4

471167 2010 HF_{109} 2 8.2 243°.65 2°.2/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.22	+ 3 56.3	2.847	3.590	11.6	22.2
1 12	9 41.41	+ 4 23.4	2.735	3.576	9.3	22.0
1 22	9 36.00	+ 5 4.6	2.645	3.562	6.7	21.8
2 1	9 29.37	+ 5 58.3	2.584	3.547	3.9	21.6
2 11	9 22.10	+ 7 1.6	2.552	3.532	2.2	21.4
2 21	9 14.85	+ 8 10.4	2.552	3.517	4.1	21.5
3 2	9 8.30	+ 9 20.1	2.582	3.501	7.1	21.7
3 12	9 3.07	+10 26.2	2.639	3.485	9.9	21.9

411355 2010 UV_{82} 2 8.2 121°.29 6°.5/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.15	+30 26.7	1.854	2.664	14.4	20.8
1 12	9 50.05	+31 35.4	1.788	2.671	11.4	20.6
1 22	9 42.11	+32 42.5	1.746	2.677	8.5	20.4
2 1	9 32.05	+33 38.8	1.729	2.683	6.6	20.3
2 11	9 21.08	+34 16.3	1.740	2.688	7.3	20.4
2 21	9 10.58	+34 30.4	1.779	2.694	9.8	20.5
3 2	9 1.80	+34 20.7	1.842	2.699	12.8	20.7
3 12	8 55.66	+33 50.0	1.927	2.704	15.6	20.9

356387 2010 OF_{100} 2 8.2 284°.05 2°.8/ 9.9 13 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.16	+ 5 56.0	1.649	2.428	17.3	21.5
1 12	9 45.88	+ 6 7.0	1.536	2.400	14.0	21.2
1 22	9 39.77	+ 6 38.8	1.442	2.372	10.0	20.9
2 1	9 31.27	+ 7 30.8	1.374	2.344	5.5	20.6
2 11	9 21.29	+ 8 38.8	1.332	2.315	2.8	20.3
2 21	9 11.10	+ 9 56.0	1.317	2.285	6.7	20.5
3 2	9 2.11	+11 14.1	1.330	2.256	11.7	20.7
3 12	8 55.54	+12 25.3	1.365	2.226	16.3	20.9

36453 2000 QK_5 2 8.2 197°.14 0°.6/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.88	+11 16.4	1.758	2.546	16.0	20.1
1 12	9 47.49	+11 38.4	1.670	2.544	12.6	19.9
1 22	9 40.46	+12 14.8	1.604	2.542	8.4	19.6
2 1	9 31.40	+13 2.3	1.563	2.540	3.8	19.3
2 11	9 21.32	+13 54.9	1.551	2.537	1.3	19.2
2 21	9 11.44	+14 46.3	1.568	2.534	6.1	19.5
3 2	9 2.97	+15 31.1	1.612	2.530	10.6	19.7
3 12	8 56.85	+16 5.3	1.680	2.526	14.5	20.0

416979 2005 TT_{65} 2 8.2 61°.72 1°.3/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.11	+16 11.7	1.699	2.504	15.8	21.4
1 12	9 46.74	+16 43.5	1.635	2.521	12.1	21.2
1 22	9 39.81	+17 25.0	1.593	2.538	7.8	21.0
2 1	9 31.02	+18 10.9	1.577	2.555	3.3	20.8
2 11	9 21.50	+18 54.7	1.589	2.573	2.2	20.7
2 21	9 12.46	+19 30.5	1.629	2.590	6.5	21.0
3 2	9 5.00	+19 54.9	1.696	2.608	10.6	21.3
3 12	8 59.91	+20 6.2	1.786	2.626	14.1	21.6

457067 2008 ER_{47} 2 8.2 206°.11 4°.0/ 4.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.97	+25 15.3	2.341	3.138	12.2	22.0
1 12	9 47.84	+26 9.9	2.253	3.133	9.5	21.8
1 22	9 40.44	+27 7.1	2.189	3.127	6.5	21.6
2 1	9 31.32	+28 0.6	2.155	3.121	4.2	21.4
2 11	9 21.37	+28 44.1	2.150	3.114	4.6	21.4
2 21	9 11.59	+29 13.2	2.174	3.106	7.3	21.6
3 2	9 3.00	+29 25.5	2.226	3.098	10.3	21.8
3 12	8 56.40	+29 21.5	2.302	3.089	13.0	21.9

300862 2007 YS_{68} 2 8.2 233°.13 0°.8/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.44	+15 45.3	2.824	3.607	10.7	21.4
1 12	9 42.36	+16 18.7	2.724	3.599	8.2	21.2
1 22	9 36.61	+16 59.1	2.650	3.590	5.4	21.0
2 1	9 29.63	+17 43.4	2.604	3.582	2.3	20.8
2 11	9 22.03	+18 27.6	2.589	3.572	1.4	20.7
2 21	9 14.52	+19 7.9	2.604	3.563	4.5	20.9
3 2	9 7.82	+19 41.2	2.649	3.553	7.6	21.1
3 12	9 2.51	+20 5.6	2.720	3.544	10.3	21.3

157235 2004 RD_{86} 2 8.2 224°.59 2°.5/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.04	+ 3 50.5	2.110	2.867	14.7	20.4
1 12	9 43.35	+ 4 23.3	2.011	2.862	11.8	20.2
1 22	9 37.54	+ 5 15.1	1.935	2.856	8.4	20.0
2 1	9 30.11	+ 6 24.0	1.885	2.851	4.8	19.8
2 11	9 21.83	+ 7 45.4	1.863	2.845	2.6	19.6
2 21	9 13.65	+ 9 12.8	1.872	2.839	5.2	19.8
3 2	9 6.49	+10 39.4	1.910	2.832	8.9	20.0
3 12	9 1.16	+11 59.0	1.973	2.826	12.4	20.2

310423 1999 VA_{104} 2 8.2 118°.81 0°.4/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.24	+11 29.4	2.002	2.779	14.7	21.8
1 12	9 47.97	+11 54.6	1.930	2.798	11.4	21.7
1 22	9 40.43	+12 31.8	1.881	2.817	7.6	21.5
2 1	9 31.27	+13 17.1	1.858	2.835	3.3	21.2
2 11	9 21.42	+14 5.5	1.866	2.852	1.2	21.1
2 21	9 11.96	+14 51.5	1.904	2.868	5.3	21.4
3 2	9 3.85	+15 30.9	1.970	2.884	9.2	21.7
3 12	8 57.83	+16 0.9	2.061	2.899	12.5	21.9

67753 2000 UQ_{48} 2 8.2 278°.77 3°.7/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.53	+ 5 37.5	1.605	2.382	17.7	18.8
1 12	9 46.69	+ 5 20.3	1.515	2.377	14.4	18.6
1 22	9 40.08	+ 5 21.2	1.445	2.371	10.3	18.3
2 1	9 31.29	+ 5 39.7	1.399	2.365	6.1	18.1
2 11	9 21.37	+ 6 12.8	1.380	2.359	3.7	17.9
2 21	9 11.61	+ 6 55.4	1.387	2.354	6.6	18.1
3 2	9 3.31	+ 7 41.2	1.421	2.348	11.0	18.3
3 12	8 57.48	+ 8 24.1	1.479	2.343	15.1	18.5

422272 2014 SB_{152} 2 8.2 224°.84 2°.0/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.24	+ 7 58.5	1.955	2.726	15.2	22.0
1 12	9 46.79	+ 8 6.0	1.856	2.717	12.1	21.7
1 22	9 39.92	+ 8 28.4	1.779	2.708	8.4	21.5
2 1	9 31.17	+ 9 4.0	1.728	2.699	4.4	21.2
2 11	9 21.42	+ 9 48.8	1.705	2.689	2.1	21.0
2 21	9 11.76	+10 37.5	1.712	2.678	5.6	21.3
3 2	9 3.29	+11 24.8	1.747	2.667	9.8	21.5
3 12	8 56.91	+12 6.1	1.806	2.656	13.5	21.7

433307 2013 PG_6 2 8.2 155°.61 6°.6/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.19	− 8 0.7	1.465	2.182	21.7	21.8
1 12	9 48.97	− 7 10.3	1.379	2.190	18.4	21.5
1 22	9 41.69	− 5 39.9	1.310	2.198	14.3	21.3
2 1	9 32.01	− 3 28.6	1.263	2.205	10.0	21.1
2 11	9 21.09	− 0 42.8	1.244	2.211	6.8	20.9
2 21	9 10.40	+ 2 24.0	1.254	2.216	7.9	21.0
3 2	9 1.39	+ 5 34.5	1.293	2.220	11.9	21.2
3 12	8 55.14	+ 8 32.8	1.358	2.223	16.2	21.5

420356 Praamzius 2 8.2 181°.57 0°.0/ 8.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 26.89	+14 56.8	42.251	43.024	0.8	22.1
1 12	9 26.25	+14 59.8	42.155	43.024	0.6	22.1
1 22	9 25.53	+15 3.1	42.087	43.024	0.4	22.1
2 1	9 24.76	+15 6.7	42.047	43.024	0.2	22.0
2 11	9 23.96	+15 10.4	42.039	43.024	0.1	22.0
2 21	9 23.17	+15 14.1	42.061	43.024	0.3	22.1
3 2	9 22.42	+15 17.6	42.113	43.024	0.5	22.1
3 12	9 21.74	+15 20.7	42.193	43.024	0.7	22.1

366867 2005 SS_{143} 2 8.2 130°.20 0°.4/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.03	+11 0.6	1.938	2.724	14.8	21.4
1 12	9 44.98	+11 31.9	1.855	2.728	11.5	21.2
1 22	9 38.63	+12 16.9	1.794	2.732	7.7	21.0
2 1	9 30.56	+13 12.0	1.760	2.736	3.4	20.7
2 11	9 21.68	+14 11.5	1.755	2.740	1.2	20.6
2 21	9 13.03	+15 9.5	1.778	2.744	5.5	20.9
3 2	9 5.63	+16 0.5	1.830	2.748	9.6	21.1
3 12	9 0.29	+16 40.9	1.906	2.751	13.1	21.4

420638 2012 JY_{1} 2 8.2 310°.27 1°.6/ 9.3 18

1 2	9 46.91	+ 8 41.7	1.703	2.494	16.3	21.1
1 12	9 43.82	+ 8 57.5	1.607	2.481	13.0	20.9
1 22	9 38.17	+ 9 30.5	1.532	2.469	8.9	20.6
2 1	9 30.47	+10 18.5	1.482	2.457	4.4	20.3
2 11	9 21.69	+11 16.4	1.460	2.445	1.8	20.1
2 21	9 12.99	+12 17.7	1.465	2.433	6.1	20.3
3 2	9 5.59	+13 15.6	1.496	2.422	10.7	20.6
3 12	9 0.45	+14 4.7	1.551	2.411	14.8	20.8

114357 2002 XC_{83} 2 8.2 137°.03 0°.9/ 8.9 18

1 2	9 52.07	+10 30.3	2.222	2.991	13.6	20.5
1 12	9 46.91	+10 46.4	2.141	3.004	10.7	20.3
1 22	9 39.68	+11 13.9	2.084	3.017	7.2	20.1
2 1	9 30.94	+11 49.7	2.055	3.029	3.3	19.9
2 11	9 21.56	+12 29.9	2.055	3.041	1.2	19.8
2 21	9 12.45	+13 9.8	2.087	3.052	4.9	20.0
3 2	9 4.52	+13 45.6	2.147	3.062	8.5	20.3
3 12	8 58.47	+14 14.3	2.233	3.071	11.7	20.5

20453 1999 KL_{6} 2 8.2 227°.42 8°.7/15.8 18

1 2	9 49.94	−13 4.5	2.306	2.953	16.3	19.1
1 12	9 45.55	−13 32.8	2.193	2.939	14.5	19.0
1 22	9 39.02	−13 37.5	2.098	2.925	12.4	18.8
2 1	9 30.78	−13 14.9	2.026	2.909	10.3	18.6
2 11	9 21.58	−12 24.1	1.979	2.893	8.9	18.5
2 21	9 12.34	−11 7.4	1.959	2.876	8.9	18.5
3 2	9 4.02	− 9 30.6	1.966	2.857	10.5	18.5
3 12	8 57.47	− 7 41.8	2.000	2.839	12.8	18.6

20287 Munteanu 2 8.2 259°.00 0°.8/ 8.8 18

1 2	9 51.43	+11 6.9	1.829	2.614	15.6	19.0
1 12	9 47.23	+11 19.9	1.725	2.597	12.3	18.7
1 22	9 40.40	+11 46.8	1.643	2.580	8.4	18.4
2 1	9 31.46	+12 24.9	1.587	2.562	3.9	18.1
2 11	9 21.33	+13 9.4	1.559	2.544	1.4	17.9
2 21	9 11.22	+13 54.5	1.559	2.526	6.1	18.2
3 2	9 2.35	+14 34.8	1.588	2.507	10.7	18.4
3 12	8 55.74	+15 6.3	1.639	2.487	14.7	18.6

67550 2000 SG_{56} 2 8.2 247°.30 0°.9/ 7.6 18

1 2	9 53.98	+15 28.6	1.883	2.674	15.0	20.8
1 12	9 49.20	+15 54.0	1.778	2.656	11.7	20.6
1 22	9 41.71	+16 30.2	1.696	2.637	7.8	20.3
2 1	9 32.02	+17 13.0	1.640	2.618	3.3	20.0
2 11	9 21.11	+17 56.2	1.613	2.598	1.9	19.8
2 21	9 10.21	+18 34.1	1.616	2.577	6.5	20.1
3 2	9 0.58	+19 2.0	1.646	2.555	11.0	20.3
3 12	8 53.28	+19 17.4	1.700	2.533	15.0	20.5

120692 1997 EA_{37} 2 8.2 316°.61 0°.9/ 7.5 18

1 2	9 44.53	+12 26.1	1.660	2.468	15.9	19.1
1 12	9 42.21	+13 28.5	1.558	2.446	12.4	18.8
1 22	9 37.27	+14 50.3	1.478	2.424	8.2	18.5
2 1	9 30.17	+16 26.3	1.424	2.403	3.5	18.2
2 11	9 21.83	+18 8.2	1.397	2.382	2.1	18.1
2 21	9 13.44	+19 46.0	1.398	2.361	7.1	18.3
3 2	9 6.30	+21 11.1	1.425	2.341	11.9	18.5
3 12	9 1.49	+22 17.8	1.475	2.322	16.1	18.7

326391 2001 QE_{203} 2 8.2 105°.28 1°.4/ 7.2 18

1 2	9 54.45	+17 30.5	2.067	2.856	13.9	21.0
1 12	9 48.82	+17 59.5	2.001	2.878	10.6	20.9
1 22	9 40.94	+18 35.3	1.959	2.900	6.9	20.7
2 1	9 31.48	+19 13.0	1.944	2.922	3.0	20.5
2 11	9 21.42	+19 47.2	1.960	2.943	2.1	20.5
2 21	9 11.81	+20 13.7	2.006	2.963	5.8	20.7
3 2	9 3.60	+20 29.9	2.079	2.983	9.4	21.0
3 12	8 57.51	+20 35.0	2.178	3.002	12.5	21.2

135459 2001 VM_{60} 2 8.2 262°.59 1°.4/ 7.3 18

1 2	9 51.22	+17 11.4	1.854	2.654	14.8	19.8
1 12	9 46.87	+17 35.7	1.769	2.653	11.4	19.6
1 22	9 39.99	+18 8.6	1.706	2.651	7.5	19.3
2 1	9 31.20	+18 45.3	1.671	2.649	3.2	19.0
2 11	9 21.49	+19 20.0	1.663	2.647	2.2	19.0
2 21	9 12.04	+19 47.4	1.685	2.645	6.4	19.2
3 2	9 3.98	+20 4.2	1.733	2.643	10.5	19.5
3 12	8 58.19	+20 8.8	1.805	2.641	14.1	19.7

101244 1998 SS_{83} 2 8.2 90°.13 0°.7/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 52.20	+11 5.7	1.769	2.555	16.0	20.1
1 12	9 47.45	+11 26.1	1.701	2.574	12.4	19.9
1 22	9 40.23	+11 59.9	1.655	2.593	8.3	19.7
2 1	9 31.23	+12 43.5	1.635	2.611	3.7	19.5
2 11	9 21.51	+13 31.2	1.644	2.630	1.3	19.4
2 21	9 12.22	+14 17.1	1.682	2.648	5.7	19.7
3 2	9 4.43	+14 56.4	1.747	2.665	9.9	20.0
3 12	8 58.93	+15 26.0	1.836	2.683	13.4	20.2

246477 2007 WD_{40} 2 8.2 226°.49 4°.9/ 3.9 17

1 2	9 50.77	+29 9.5	2.391	3.194	11.8	20.8
1 12	9 46.12	+30 3.9	2.312	3.192	9.2	20.7
1 22	9 39.28	+30 57.6	2.257	3.190	6.7	20.5
2 1	9 30.84	+31 44.3	2.231	3.188	5.0	20.4
2 11	9 21.66	+32 18.3	2.234	3.186	5.6	20.4
2 21	9 12.72	+32 35.6	2.265	3.184	7.8	20.5
3 2	9 4.99	+32 35.0	2.322	3.181	10.4	20.7
3 12	8 59.21	+32 17.7	2.403	3.179	12.9	20.9

48902 1998 MP_{31} 2 8.2 167°.24 1°.5/ 9.2 18

1 2	9 55.59	+ 9 40.3	1.914	2.683	15.5	19.0
1 12	9 50.05	+ 9 45.0	1.827	2.689	12.3	18.8
1 22	9 41.99	+10 2.8	1.763	2.694	8.4	18.6
2 1	9 32.04	+10 31.4	1.725	2.698	4.1	18.3
2 11	9 21.19	+11 6.5	1.717	2.702	1.7	18.1
2 21	9 10.61	+11 43.2	1.739	2.704	5.6	18.4
3 2	9 1.41	+12 16.9	1.789	2.706	9.8	18.7
3 12	8 54.48	+12 44.0	1.864	2.706	13.5	18.9

260026 2004 GT_{24} 2 8.2 291°.66 3°.4/ 5.8 18

1 2	9 49.92	+20 32.1	1.717	2.531	15.2	20.7
1 12	9 46.34	+21 26.6	1.624	2.515	11.8	20.5
1 22	9 39.95	+22 30.4	1.553	2.499	7.9	20.2
2 1	9 31.31	+23 36.4	1.508	2.483	4.2	19.9
2 11	9 21.44	+24 36.3	1.490	2.466	4.3	19.9
2 21	9 11.66	+25 22.5	1.500	2.450	8.2	20.1
3 2	9 3.31	+25 50.6	1.536	2.434	12.4	20.3
3 12	8 57.45	+25 59.2	1.594	2.419	16.2	20.5

173903 2001 UH_{179} 2 8.2 131°.14 0°.5/ 7.9 17

1 2	9 50.47	+16 6.9	2.497	3.280	11.9	20.1
1 12	9 45.52	+16 13.8	2.412	3.285	9.2	19.9
1 22	9 38.71	+16 26.6	2.351	3.291	6.0	19.7
2 1	9 30.54	+16 42.4	2.319	3.296	2.5	19.5
2 11	9 21.79	+16 57.8	2.316	3.301	1.2	19.4
2 21	9 13.28	+17 9.7	2.345	3.306	4.7	19.7
3 2	9 5.82	+17 15.9	2.402	3.311	8.0	19.9
3 12	9 0.03	+17 15.1	2.485	3.316	10.9	20.1

243864 2000 WJ_{163} 2 8.2 110°.64 0°.1/ 8.3 18

1 2	9 54.12	+12 30.3	1.784	2.570	15.9	21.6
1 12	9 48.94	+12 54.7	1.715	2.588	12.3	21.4
1 22	9 41.22	+13 31.5	1.667	2.606	8.1	21.2
2 1	9 31.67	+14 16.5	1.647	2.624	3.5	20.9
2 11	9 21.37	+15 3.6	1.655	2.641	1.3	20.8
2 21	9 11.51	+15 47.1	1.693	2.657	5.9	21.1
3 2	9 3.19	+16 22.5	1.758	2.673	10.1	21.4
3 12	8 57.22	+16 47.2	1.847	2.688	13.6	21.7

140072 2001 SP_{114} 2 8.2 297°.24 10°.8/30.0 18

1 2	10 4.78	+49 23.9	2.290	3.049	13.6	19.5
1 12	9 57.70	+50 29.7	2.227	3.042	12.1	19.4
1 22	9 47.22	+51 20.4	2.187	3.036	11.1	19.3
2 1	9 34.28	+51 46.4	2.170	3.029	10.8	19.3
2 11	9 20.39	+51 41.1	2.179	3.022	11.5	19.3
2 21	9 7.26	+51 2.7	2.211	3.016	12.8	19.4
3 2	8 56.40	+49 54.0	2.265	3.009	14.4	19.5
3 12	8 48.75	+48 21.6	2.339	3.003	16.0	19.6

448135 2008 SF_{82} 2 8.2 85°.03 1°.0/ 8.9 18

1 2	9 51.93	+ 9 15.4	1.455	2.250	18.4	21.6
1 12	9 47.78	+ 9 50.2	1.389	2.266	14.4	21.4
1 22	9 40.73	+10 44.2	1.344	2.283	9.7	21.2
2 1	9 31.54	+11 52.7	1.324	2.300	4.4	20.9
2 11	9 21.42	+13 7.8	1.330	2.316	1.5	20.7
2 21	9 11.79	+14 20.8	1.365	2.332	6.5	21.1
3 2	9 3.93	+15 24.3	1.425	2.348	11.3	21.4
3 12	8 58.76	+16 13.9	1.509	2.364	15.4	21.7

455441 2003 SX_{119} 2 8.2 97°.46 0°.9/ 8.9 18

1 2	9 53.43	+10 6.1	1.778	2.557	16.1	22.2
1 12	9 48.35	+10 30.2	1.712	2.581	12.6	22.0
1 22	9 40.80	+11 8.7	1.668	2.604	8.4	21.8
2 1	9 31.48	+11 57.8	1.651	2.626	3.9	21.5
2 11	9 21.47	+12 51.5	1.662	2.648	1.4	21.4
2 21	9 11.92	+13 43.8	1.703	2.669	5.7	21.7
3 2	9 3.90	+14 29.5	1.772	2.690	9.8	22.0
3 12	8 58.18	+15 5.3	1.864	2.710	13.3	22.3

245601 2005 VF_{124} 2 8.2 1°.15 3°.5/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 52.50	+ 7 36.6	1.385	2.176	19.3	20.6
1 12	9 48.57	+ 7 7.8	1.304	2.176	15.5	20.3
1 22	9 41.50	+ 6 56.3	1.244	2.176	11.0	20.0
2 1	9 31.97	+ 7 1.8	1.206	2.176	6.2	19.8
2 11	9 21.23	+ 7 21.0	1.194	2.176	3.5	19.6
2 21	9 10.80	+ 7 48.8	1.209	2.176	7.2	19.8
3 2	9 2.16	+ 8 19.1	1.248	2.177	12.0	20.1
3 12	8 56.38	+ 8 46.4	1.310	2.178	16.4	20.4

323851 2005 SU_{102} 2 8.2 128°.86 4°.4/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.66	− 0 27.7	2.266	2.992	14.6	21.7
1 12	9 45.04	− 0 32.9	2.183	3.006	12.1	21.5
1 22	9 38.47	− 0 20.4	2.121	3.019	9.1	21.3
2 1	9 30.47	+ 0 9.5	2.085	3.032	6.2	21.2
2 11	9 21.84	+ 0 54.4	2.077	3.045	4.5	21.1
2 21	9 13.44	+ 1 50.0	2.099	3.056	5.6	21.2
3 2	9 6.12	+ 2 51.1	2.150	3.068	8.4	21.4
3 12	9 0.53	+ 3 52.2	2.227	3.078	11.2	21.6

268156 2004 TF_{334} 2 8.2 55°.10 0°.8/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.16	+15 11.1	1.929	2.727	14.4	21.1
1 12	9 45.12	+15 40.1	1.849	2.731	11.1	20.9
1 22	9 38.75	+16 19.1	1.792	2.735	7.3	20.7
2 1	9 30.66	+17 3.7	1.761	2.739	3.1	20.4
2 11	9 21.77	+17 48.3	1.759	2.744	1.7	20.3
2 21	9 13.15	+18 27.5	1.786	2.748	5.9	20.6
3 2	9 5.84	+18 57.4	1.840	2.753	9.8	20.9
3 12	9 0.61	+19 15.6	1.918	2.757	13.3	21.1

302975 2003 UH_{317} 2 8.2 296°.22 3°.2/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.47	+20 55.3	1.539	2.355	16.6	20.7
1 12	9 49.28	+21 25.0	1.455	2.346	12.9	20.4
1 22	9 41.96	+22 1.8	1.392	2.338	8.6	20.2
2 1	9 32.17	+22 38.8	1.354	2.330	4.3	19.9
2 11	9 21.17	+23 8.3	1.343	2.322	4.0	19.8
2 21	9 10.44	+23 24.2	1.360	2.315	8.3	20.1
3 2	9 1.46	+23 23.4	1.401	2.307	12.8	20.3
3 12	8 55.33	+23 6.2	1.464	2.300	16.8	20.5

48792 1997 SC_{34} 2 8.2 55°.36 7°.8/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.49	+35 37.9	2.008	2.816	13.6	18.8
1 12	9 48.66	+36 55.5	1.955	2.828	11.0	18.7
1 22	9 41.13	+38 6.6	1.925	2.841	8.8	18.6
2 1	9 31.66	+39 2.6	1.922	2.854	7.8	18.5
2 11	9 21.41	+39 36.2	1.945	2.868	8.5	18.6
2 21	9 11.69	+39 44.2	1.994	2.881	10.5	18.8
3 2	9 3.67	+39 27.1	2.068	2.895	12.8	18.9
3 12	8 58.14	+38 48.6	2.162	2.908	15.0	19.1

170273 2003 QO_{84} 2 8.2 90°.43 0°.6/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.06	+14 26.7	1.654	2.450	16.5	21.0
1 12	9 49.06	+14 56.3	1.590	2.470	12.7	20.8
1 22	9 41.38	+15 37.4	1.548	2.490	8.3	20.6
2 1	9 31.76	+16 24.9	1.532	2.510	3.5	20.4
2 11	9 21.38	+17 11.9	1.544	2.529	1.7	20.3
2 21	9 11.52	+17 52.5	1.586	2.549	6.4	20.6
3 2	9 3.35	+18 22.4	1.654	2.567	10.7	20.9
3 12	8 57.68	+18 39.8	1.745	2.586	14.3	21.2

464993 2006 BK_{145} 2 8.2 359°.73 2°.9/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.13	+ 8 22.9	1.636	2.424	17.0	20.5
1 12	9 45.48	+ 7 56.6	1.552	2.422	13.6	20.3
1 22	9 39.20	+ 7 44.6	1.489	2.421	9.5	20.0
2 1	9 30.92	+ 7 46.1	1.451	2.421	5.3	19.8
2 11	9 21.67	+ 7 58.4	1.439	2.421	2.9	19.6
2 21	9 12.69	+ 8 17.3	1.454	2.422	6.2	19.8
3 2	9 5.16	+ 8 38.2	1.496	2.423	10.5	20.1
3 12	9 0.00	+ 8 56.8	1.560	2.426	14.4	20.3

288959 2004 TJ_{16} 2 8.2 85°.00 3°.0/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.96	+20 50.3	1.508	2.318	17.1	20.5
1 12	9 51.66	+21 18.7	1.444	2.333	13.2	20.3
1 22	9 43.26	+21 52.9	1.403	2.348	8.7	20.1
2 1	9 32.61	+22 26.0	1.386	2.363	4.2	19.9
2 11	9 21.08	+22 50.5	1.398	2.377	3.8	19.9
2 21	9 10.19	+23 1.4	1.437	2.392	7.9	20.1
3 2	9 1.30	+22 56.8	1.501	2.406	12.2	20.4
3 12	8 55.30	+22 37.7	1.588	2.420	15.9	20.7

17490 1991 UC_{3} 2 8.2 105°.43 1°.2/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.29	+ 9 17.2	2.140	2.911	14.0	19.2
1 12	9 45.61	+ 9 37.2	2.065	2.928	11.0	19.0
1 22	9 38.87	+10 9.9	2.013	2.946	7.4	18.8
2 1	9 30.65	+10 52.4	1.989	2.963	3.6	18.6
2 11	9 21.82	+11 40.3	1.994	2.979	1.4	18.5
2 21	9 13.29	+12 28.6	2.029	2.995	4.9	18.7
3 2	9 5.96	+13 12.8	2.093	3.011	8.5	19.0
3 12	9 0.51	+13 49.6	2.182	3.027	11.7	19.2

400107 2006 TO_{85} 2 8.2 96°.82 1°.5/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.04	+ 8 47.8	2.048	2.813	14.8	21.8
1 12	9 48.42	+ 9 1.3	1.984	2.842	11.6	21.7
1 22	9 40.64	+ 9 27.8	1.942	2.872	7.9	21.5
2 1	9 31.38	+10 4.3	1.928	2.900	3.9	21.3
2 11	9 21.56	+10 46.5	1.944	2.928	1.6	21.2
2 21	9 12.19	+11 29.4	1.989	2.955	5.0	21.5
3 2	9 4.19	+12 8.8	2.064	2.981	8.7	21.7
3 12	8 58.23	+12 41.5	2.164	3.007	11.9	22.0

428715 2008 RG_{38} 2 8.2 84°.90 0°.7/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.61	+11 5.4	2.056	2.839	14.1	21.8
1 12	9 44.51	+11 24.5	1.975	2.846	11.0	21.6
1 22	9 38.26	+11 55.7	1.916	2.853	7.4	21.4
2 1	9 30.43	+12 35.9	1.884	2.860	3.4	21.2
2 11	9 21.89	+13 20.4	1.882	2.867	1.2	21.0
2 21	9 13.60	+14 4.2	1.908	2.874	5.1	21.3
3 2	9 6.50	+14 43.1	1.963	2.881	9.0	21.6
3 12	9 1.32	+15 13.7	2.042	2.888	12.3	21.8

345617 2006 SP_{226} 2 8.2 135°.51 3°.3/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.35	+ 2 14.3	2.624	3.361	12.6	21.6
1 12	9 42.30	+ 2 12.4	2.533	3.367	10.3	21.4
1 22	9 36.60	+ 2 24.5	2.464	3.372	7.6	21.2
2 1	9 29.67	+ 2 49.8	2.422	3.377	4.9	21.1
2 11	9 22.19	+ 3 26.1	2.409	3.382	3.3	21.0
2 21	9 14.86	+ 4 10.1	2.426	3.387	4.7	21.1
3 2	9 8.38	+ 4 57.7	2.472	3.392	7.3	21.3
3 12	9 3.35	+ 5 44.8	2.545	3.396	10.0	21.4

371253 2006 BV_{172} 2 8.2 176°.38 1°.3/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.68	+ 9 50.1	2.168	2.941	13.8	21.3
1 12	9 45.26	+ 9 56.1	2.077	2.942	10.9	21.1
1 22	9 38.74	+10 13.8	2.010	2.942	7.4	20.9
2 1	9 30.65	+10 41.1	1.970	2.943	3.6	20.7
2 11	9 21.81	+11 14.3	1.958	2.943	1.5	20.5
2 21	9 13.16	+11 49.2	1.977	2.943	5.0	20.7
3 2	9 5.62	+12 21.8	2.024	2.943	8.7	21.0
3 12	8 59.94	+12 48.7	2.096	2.943	12.0	21.2

374970 2007 DD_{41} 2 8.2 217°.61 12°.5/ 3.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 15.53	+40 3.1	1.234	2.037	20.6	20.8
1 12	10 8.02	+41 6.8	1.167	2.033	17.4	20.6
1 22	9 55.11	+41 57.5	1.119	2.028	14.4	20.4
2 1	9 37.95	+42 17.3	1.093	2.023	12.6	20.3
2 11	9 19.06	+41 51.9	1.091	2.018	13.2	20.3
2 21	9 1.46	+40 38.4	1.114	2.012	15.9	20.4
3 2	8 47.68	+38 44.5	1.158	2.006	19.4	20.6
3 12	8 39.01	+36 24.4	1.220	1.999	22.8	20.8

137146 1999 CS_{145} 2 8.2 201°.27 1°.1/ 7.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.25	+17 40.4	2.791	3.574	10.8	21.0
1 12	9 44.51	+18 3.7	2.696	3.571	8.3	20.8
1 22	9 38.04	+18 32.2	2.626	3.567	5.4	20.6
2 1	9 30.30	+19 2.6	2.585	3.563	2.4	20.4
2 11	9 21.96	+19 31.3	2.575	3.558	1.7	20.3
2 21	9 13.75	+19 55.0	2.596	3.553	4.7	20.5
3 2	9 6.43	+20 11.3	2.646	3.548	7.7	20.7
3 12	9 0.60	+20 18.8	2.722	3.542	10.4	20.9

308863 2006 SW_{6} 2 8.2 49°.22 1°.5/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.03	+11 31.1	1.523	2.319	17.7	19.9
1 12	9 48.50	+11 15.4	1.454	2.332	13.9	19.6
1 22	9 41.15	+11 12.8	1.406	2.345	9.4	19.4
2 1	9 31.72	+11 20.8	1.383	2.358	4.5	19.2
2 11	9 21.43	+11 35.1	1.387	2.372	1.8	19.0
2 21	9 11.65	+11 51.0	1.418	2.386	6.3	19.3
3 2	9 3.61	+12 4.5	1.475	2.400	10.9	19.6
3 12	8 58.19	+12 12.4	1.556	2.415	14.8	19.9

320372 2007 TA_{419} 2 8.2 108°.25 0°.2/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.67	+12 29.3	2.400	3.183	12.4	20.6
1 12	9 42.75	+13 15.8	2.318	3.191	9.5	20.4
1 22	9 36.98	+14 13.0	2.260	3.200	6.3	20.2
2 1	9 29.87	+15 17.0	2.230	3.208	2.6	20.0
2 11	9 22.14	+16 22.8	2.231	3.216	1.2	19.8
2 21	9 14.60	+17 25.1	2.261	3.224	4.8	20.1
3 2	9 8.04	+18 19.5	2.321	3.232	8.2	20.3
3 12	9 3.11	+19 3.3	2.406	3.240	11.1	20.6

367624 2009 UR_{126} 2 8.2 170°.27 4°.2/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.52	− 0 20.2	2.656	3.369	13.0	22.2
1 12	9 45.48	− 0 36.7	2.560	3.374	10.8	22.1
1 22	9 38.68	− 0 38.8	2.486	3.378	8.2	21.9
2 1	9 30.58	− 0 26.1	2.439	3.382	5.7	21.7
2 11	9 21.86	− 0 0.3	2.421	3.385	4.3	21.6
2 21	9 13.27	+ 0 36.0	2.434	3.387	5.3	21.7
3 2	9 5.58	+ 1 18.8	2.476	3.388	7.7	21.9
3 12	8 59.39	+ 2 3.8	2.545	3.388	10.3	22.0

250202 2002 US_{44} 2 8.2 72°.16 0°.9/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.23	+13 49.2	1.652	2.449	16.5	20.9
1 12	9 48.31	+14 38.8	1.599	2.480	12.6	20.7
1 22	9 40.81	+15 40.8	1.568	2.511	8.2	20.5
2 1	9 31.50	+16 48.8	1.563	2.541	3.4	20.3
2 11	9 21.55	+17 55.1	1.587	2.572	1.9	20.3
2 21	9 12.19	+18 52.9	1.640	2.602	6.4	20.6
3 2	9 4.53	+19 37.7	1.719	2.631	10.5	20.9
3 12	8 59.30	+20 7.5	1.823	2.660	13.9	21.2

454116 2013 CM_{84} 2 8.2 3°.83 2°.9/ 6.7 17

1 2	9 48.11	+18 16.9	1.139	1.978	19.6	20.9
1 12	9 45.85	+18 54.8	1.072	1.977	15.2	20.6
1 22	9 40.04	+19 45.7	1.024	1.977	10.0	20.3
2 1	9 31.43	+20 41.4	0.999	1.978	4.6	20.0
2 11	9 21.52	+21 31.8	0.998	1.980	3.9	19.9
2 21	9 12.10	+22 7.9	1.021	1.984	9.2	20.2
3 2	9 4.83	+22 24.8	1.067	1.988	14.4	20.5
3 12	9 0.86	+22 21.6	1.132	1.994	18.9	20.8

312333 2008 CA_{177} 2 8.2 67°.76 1°.9/ 7.5 18

1 2	10 2.35	+21 40.0	1.687	2.481	16.3	20.0
1 12	9 55.52	+21 16.5	1.609	2.488	12.6	19.8
1 22	9 45.67	+20 54.1	1.554	2.495	8.4	19.5
2 1	9 33.63	+20 28.4	1.525	2.502	3.8	19.3
2 11	9 20.74	+19 55.7	1.526	2.509	2.6	19.2
2 21	9 8.47	+19 14.3	1.557	2.516	6.9	19.5
3 2	8 58.16	+18 24.8	1.616	2.524	11.3	19.7
3 12	8 50.70	+17 29.0	1.698	2.531	15.0	20.0

491126 2011 SB_{118} 2 8.2 189°.55 3°.8/10.6 18

1 2	9 52.91	+ 4 26.9	1.815	2.573	16.7	21.3
1 12	9 48.19	+ 4 9.8	1.723	2.573	13.5	21.1
1 22	9 40.93	+ 4 9.7	1.653	2.572	9.8	20.9
2 1	9 31.68	+ 4 26.4	1.608	2.570	6.0	20.7
2 11	9 21.44	+ 4 57.1	1.591	2.568	3.8	20.5
2 21	9 11.38	+ 5 37.3	1.602	2.566	6.3	20.7
3 2	9 2.66	+ 6 21.6	1.641	2.563	10.2	20.9
3 12	8 56.20	+ 7 4.3	1.704	2.559	13.9	21.1

125 Liberatrix 2 8.2 224°.89 1°.2/ 9.2 18 A

1 2	9 48.30	+ 9 13.4	2.143	2.917	13.9	13.6
1 12	9 44.30	+ 9 34.9	2.047	2.913	11.0	13.5
1 22	9 38.19	+10 9.9	1.975	2.908	7.5	13.3
2 1	9 30.46	+10 56.0	1.929	2.903	3.6	13.1
2 11	9 21.91	+11 48.7	1.913	2.898	1.4	12.9
2 21	9 13.49	+12 43.0	1.926	2.892	5.1	13.1
3 2	9 6.14	+13 33.7	1.967	2.887	8.9	13.3
3 12	9 0.62	+14 16.8	2.034	2.881	12.3	13.5

324080 2005 WP_{75} 2 8.2 202°.59 1°.6/ 7.1 18

1 2	9 51.18	+17 37.3	2.112	2.906	13.4	21.5
1 12	9 46.58	+18 10.1	2.023	2.904	10.4	21.3
1 22	9 39.71	+18 50.7	1.958	2.901	6.8	21.1
2 1	9 31.11	+19 34.4	1.920	2.898	3.0	20.8
2 11	9 21.68	+20 15.5	1.912	2.894	2.3	20.8
2 21	9 12.44	+20 49.3	1.934	2.891	6.0	21.0
3 2	9 4.42	+21 12.3	1.983	2.887	9.7	21.2
3 12	8 58.40	+21 23.0	2.056	2.883	13.0	21.4

492537 2014 OP_{94} 2 8.2 263°.34 0°.9/ 7.6 17

1 2	9 51.58	+13 33.1	1.762	2.557	15.7	22.0
1 12	9 47.65	+14 21.6	1.653	2.533	12.3	21.7
1 22	9 40.92	+15 26.3	1.567	2.510	8.2	21.4
2 1	9 31.83	+16 42.5	1.507	2.485	3.5	21.1
2 11	9 21.36	+18 2.6	1.475	2.460	2.0	20.9
2 21	9 10.74	+19 18.2	1.473	2.434	7.0	21.2
3 2	9 1.36	+20 22.1	1.497	2.407	11.8	21.4
3 12	8 54.37	+21 9.9	1.544	2.380	16.1	21.6

452294 2015 TZ_{234} 2 8.2 70°.41 1°.8/ 9.5 18

1 2	9 50.34	+ 7 21.7	1.388	2.183	19.1	21.5
1 12	9 46.75	+ 7 51.0	1.320	2.196	15.1	21.2
1 22	9 40.18	+ 8 42.3	1.272	2.209	10.3	21.0
2 1	9 31.39	+ 9 51.8	1.248	2.222	5.1	20.7
2 11	9 21.60	+11 11.6	1.250	2.235	2.0	20.6
2 21	9 12.25	+12 32.5	1.280	2.249	6.6	20.9
3 2	9 4.68	+13 45.9	1.334	2.262	11.5	21.2
3 12	8 59.84	+14 45.8	1.412	2.275	15.8	21.5

38532 1999 UQ_{24} 2 8.3 147°.35 2°.0/ 9.8 18

1 2	9 49.97	+ 7 47.0	2.273	3.036	13.6	18.8
1 12	9 45.35	+ 7 45.0	2.185	3.041	10.8	18.6
1 22	9 38.73	+ 7 55.1	2.120	3.046	7.5	18.4
2 1	9 30.65	+ 8 15.8	2.082	3.051	4.0	18.2
2 11	9 21.90	+ 8 44.1	2.073	3.055	2.1	18.1
2 21	9 13.35	+ 9 16.2	2.094	3.060	4.8	18.2
3 2	9 5.87	+ 9 48.2	2.144	3.064	8.3	18.5
3 12	9 0.15	+10 16.7	2.220	3.067	11.4	18.7

419141 2009 SD_{279} 2 8.3 28°.74 3°.7/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 45.77	+ 2 32.9	1.665	2.437	17.4	21.0
1 12	9 42.81	+ 2 47.3	1.587	2.443	14.1	20.7
1 22	9 37.41	+ 3 24.2	1.528	2.450	10.3	20.5
2 1	9 30.17	+ 4 22.2	1.494	2.457	6.2	20.3
2 11	9 22.08	+ 5 36.4	1.486	2.465	3.7	20.2
2 21	9 14.25	+ 6 59.5	1.506	2.473	6.1	20.3
3 2	9 7.77	+ 8 23.2	1.552	2.482	10.0	20.6
3 12	9 3.49	+ 9 40.3	1.623	2.491	13.8	20.8

238763 2005 JT_{68} 2 8.3 209°.09 3°.1/ 4.7 17

1 2	9 48.46	+24 5.8	2.996	3.789	9.9	21.2
1 12	9 43.95	+25 6.0	2.904	3.783	7.6	21.1
1 22	9 37.72	+26 9.0	2.837	3.776	5.2	20.9
2 1	9 30.22	+27 10.1	2.801	3.768	3.3	20.7
2 11	9 22.07	+28 4.4	2.795	3.760	3.7	20.8
2 21	9 14.00	+28 48.0	2.820	3.752	5.8	20.9
3 2	9 6.75	+29 18.5	2.874	3.743	8.3	21.0
3 12	9 0.93	+29 35.3	2.952	3.733	10.6	21.2

281741 2008 YY_{80} 2 8.3 106°.25 2°.0/ 6.4 18

1 2	9 49.21	+19 13.8	2.461	3.254	11.8	21.0
1 12	9 44.63	+19 59.6	2.389	3.270	9.0	20.9
1 22	9 38.18	+20 50.6	2.342	3.285	5.8	20.7
2 1	9 30.39	+21 42.4	2.323	3.299	2.8	20.5
2 11	9 22.04	+22 29.6	2.335	3.314	2.6	20.5
2 21	9 13.96	+23 8.3	2.377	3.328	5.5	20.7
3 2	9 6.95	+23 35.7	2.447	3.342	8.5	20.9
3 12	9 1.63	+23 50.9	2.542	3.355	11.2	21.1

238668 2005 ED_{160} 2 8.3 60°.60 0°.2/ 8.4 18

1 2	9 48.58	+12 20.9	2.005	2.793	14.3	20.8
1 12	9 44.49	+12 42.8	1.932	2.807	11.0	20.7
1 22	9 38.26	+13 15.9	1.881	2.821	7.3	20.5
2 1	9 30.46	+13 56.6	1.857	2.834	3.2	20.2
2 11	9 22.01	+14 40.1	1.863	2.848	1.1	20.1
2 21	9 13.88	+15 21.3	1.897	2.862	5.2	20.4
3 2	9 7.00	+15 56.2	1.959	2.877	9.0	20.7
3 12	9 2.07	+16 21.9	2.046	2.891	12.3	20.9

421334 2013 TL_{80} 2 8.3 87°.44 1°.1/ 7.3 18

1 2	9 49.07	+15 56.3	2.065	2.861	13.7	21.0
1 12	9 44.91	+16 33.2	1.987	2.868	10.5	20.8
1 22	9 38.57	+17 19.2	1.933	2.876	6.8	20.6
2 1	9 30.62	+18 9.6	1.905	2.883	2.9	20.4
2 11	9 21.95	+18 58.9	1.907	2.891	1.9	20.3
2 21	9 13.55	+19 41.7	1.938	2.898	5.7	20.6
3 2	9 6.37	+20 14.3	1.997	2.905	9.4	20.8
3 12	9 1.15	+20 34.8	2.080	2.913	12.6	21.1

406070 2006 UR_{94} 2 8.3 96°.28 1°.2/ 7.4 18

1 2	9 52.59	+15 45.3	1.846	2.641	15.1	22.3
1 12	9 47.75	+16 26.1	1.779	2.660	11.5	22.1
1 22	9 40.47	+17 16.8	1.736	2.679	7.5	21.9
2 1	9 31.43	+18 11.8	1.719	2.697	3.2	21.6
2 11	9 21.67	+19 4.6	1.731	2.715	2.1	21.6
2 21	9 12.34	+19 49.5	1.773	2.733	6.2	21.9
3 2	9 4.49	+20 22.5	1.842	2.750	10.1	22.2
3 12	8 58.90	+20 42.1	1.935	2.767	13.5	22.4

446940 2003 BH_{34} 2 8.3 341°.02 1°.6/ 7.5 18

1 2	9 48.61	+16 20.7	1.143	1.978	19.9	20.8
1 12	9 46.37	+16 40.9	1.067	1.969	15.5	20.5
1 22	9 40.53	+17 15.8	1.009	1.960	10.3	20.1
2 1	9 31.76	+17 59.2	0.973	1.953	4.4	19.8
2 11	9 21.49	+18 42.3	0.961	1.946	2.8	19.7
2 21	9 11.51	+19 16.3	0.974	1.940	8.7	20.0
3 2	9 3.62	+19 35.3	1.009	1.936	14.4	20.3
3 12	8 59.09	+19 36.9	1.063	1.932	19.3	20.5

141706 2002 LC_{6} 2 8.3 174°.05 0°.0/ 8.1 18

1 2	9 52.83	+13 21.9	2.154	2.933	13.7	20.7
1 12	9 47.74	+13 44.2	2.065	2.936	10.7	20.5
1 22	9 40.42	+14 16.5	2.001	2.938	7.1	20.3
2 1	9 31.44	+14 55.4	1.963	2.940	3.0	20.0
2 11	9 21.67	+15 36.0	1.956	2.941	1.2	19.9
2 21	9 12.11	+16 13.7	1.979	2.942	5.3	20.2
3 2	9 3.75	+16 44.6	2.030	2.942	9.1	20.4
3 12	8 57.35	+17 6.3	2.107	2.941	12.5	20.6

264186 2010 EP_{135} 2 8.3 10°.81 2°.6/ 6.3 18

1 2	9 48.17	+20 7.8	1.896	2.707	14.1	20.4
1 12	9 44.50	+20 48.6	1.819	2.709	10.8	20.1
1 22	9 38.45	+21 36.0	1.765	2.711	7.1	19.9
2 1	9 30.62	+22 24.3	1.737	2.714	3.5	19.7
2 11	9 21.99	+23 6.9	1.738	2.716	3.4	19.7
2 21	9 13.63	+23 38.6	1.767	2.720	6.9	19.9
3 2	9 6.62	+23 56.3	1.822	2.724	10.6	20.1
3 12	9 1.77	+23 59.1	1.900	2.728	13.9	20.4

416664 2004 TB_{328} 2 8.3 99°.11 4°.7/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.17	+27 21.8	2.271	3.070	12.5	21.4
1 12	9 48.62	+28 31.1	2.217	3.096	9.6	21.2
1 22	9 40.87	+29 39.9	2.187	3.121	6.8	21.1
2 1	9 31.56	+30 41.4	2.186	3.146	4.9	21.0
2 11	9 21.66	+31 29.1	2.215	3.170	5.3	21.1
2 21	9 12.20	+31 59.4	2.273	3.194	7.6	21.3
3 2	9 4.13	+32 11.0	2.358	3.217	10.3	21.5
3 12	8 58.13	+32 5.5	2.466	3.240	12.7	21.7

481475 2007 BO_{73} 2 8.3 271°.57 1°.9/ 7.9 18

1 2	10 10.82	+22 31.3	1.104	1.916	22.0	20.3
1 12	10 4.05	+21 40.5	1.022	1.909	17.4	20.0
1 22	9 52.46	+20 47.1	0.958	1.902	11.8	19.6
2 1	9 36.96	+19 45.0	0.918	1.896	5.3	19.2
2 11	9 19.57	+18 29.7	0.904	1.889	2.9	19.1
2 21	9 2.87	+17 1.7	0.917	1.882	9.5	19.4
3 2	8 49.25	+15 25.8	0.955	1.875	15.9	19.7
3 12	8 40.17	+13 47.7	1.014	1.868	21.3	20.0

262816 2007 AM_{10} 2 8.3 47°.57 0°.6/ 7.9 18

1 2	9 53.41	+16 5.1	1.573	2.377	16.8	20.5
1 12	9 48.78	+16 6.5	1.505	2.390	13.0	20.2
1 22	9 41.34	+16 17.0	1.458	2.402	8.5	20.0
2 1	9 31.85	+16 32.4	1.437	2.416	3.6	19.7
2 11	9 21.54	+16 47.3	1.444	2.429	1.7	19.6
2 21	9 11.75	+16 57.3	1.478	2.443	6.5	20.0
3 2	9 3.71	+16 59.3	1.538	2.457	11.0	20.3
3 12	8 58.27	+16 52.1	1.622	2.471	14.8	20.5

247573 2002 TJ_{2} 2 8.3 84°.61 2°.9/10.5 18

1 2	9 52.87	+ 4 44.2	1.846	2.604	16.4	21.5
1 12	9 47.77	+ 4 55.0	1.784	2.635	13.1	21.3
1 22	9 40.37	+ 5 23.4	1.743	2.664	9.2	21.1
2 1	9 31.36	+ 6 7.2	1.728	2.694	5.2	21.0
2 11	9 21.75	+ 7 1.6	1.742	2.723	2.9	20.9
2 21	9 12.61	+ 8 0.7	1.785	2.751	5.5	21.1
3 2	9 4.93	+ 8 58.6	1.856	2.778	9.2	21.4
3 12	8 59.42	+ 9 50.3	1.953	2.805	12.5	21.6

27563 2000 KD_{60} 2 8.3 78°.01 1°.6/ 9.6 18

1 2	9 46.83	+ 7 54.1	2.228	2.999	13.6	18.9
1 12	9 43.02	+ 8 12.5	2.142	3.004	10.7	18.7
1 22	9 37.26	+ 8 44.4	2.079	3.009	7.4	18.5
2 1	9 30.07	+ 9 27.6	2.043	3.014	3.8	18.3
2 11	9 22.21	+10 18.0	2.036	3.020	1.7	18.2
2 21	9 14.54	+11 10.7	2.058	3.025	4.7	18.4
3 2	9 7.91	+12 1.2	2.109	3.030	8.3	18.6
3 12	9 3.00	+12 45.4	2.185	3.035	11.4	18.8

268567 2006 BX_{64} 2 8.3 194°.39 0°.6/ 8.8 18

1 2	9 50.31	+11 48.7	2.432	3.204	12.5	21.3
1 12	9 45.58	+12 0.2	2.337	3.202	9.8	21.1
1 22	9 38.90	+12 21.2	2.265	3.200	6.6	20.9
2 1	9 30.77	+12 49.2	2.222	3.197	3.0	20.7
2 11	9 21.95	+13 20.7	2.208	3.194	1.0	20.5
2 21	9 13.27	+13 51.8	2.225	3.190	4.7	20.8
3 2	9 5.58	+14 19.2	2.272	3.186	8.1	21.0
3 12	8 59.57	+14 40.2	2.344	3.182	11.2	21.2

363552 2003 WX_{49} 2 8.3 94°.36 0°.2/ 8.1 18

1 2	9 54.53	+14 31.3	1.679	2.473	16.3	21.3
1 12	9 49.49	+14 40.8	1.608	2.487	12.7	21.1
1 22	9 41.75	+15 0.9	1.559	2.500	8.3	20.8
2 1	9 32.04	+15 27.3	1.535	2.513	3.5	20.6
2 11	9 21.50	+15 54.5	1.540	2.526	1.4	20.4
2 21	9 11.42	+16 17.7	1.574	2.538	6.2	20.8
3 2	9 2.99	+16 33.1	1.634	2.551	10.6	21.1
3 12	8 57.05	+16 38.8	1.718	2.563	14.3	21.3

495384 2014 QX_{129} 2 8.3 230°.45 0°.2/ 8.1 17

1 2	9 52.90	+13 35.0	1.874	2.662	15.1	22.6
1 12	9 48.31	+13 57.7	1.777	2.652	11.8	22.4
1 22	9 41.11	+14 32.4	1.701	2.641	7.9	22.1
2 1	9 31.86	+15 15.3	1.653	2.630	3.4	21.8
2 11	9 21.52	+16 0.8	1.633	2.619	1.4	21.6
2 21	9 11.28	+16 43.0	1.643	2.606	6.1	21.9
3 2	9 2.34	+17 17.1	1.680	2.594	10.5	22.2
3 12	8 55.66	+17 40.2	1.741	2.580	14.4	22.4

114193 2002 VL_{89} 2 8.3 105°.68 3°.2/ 5.5 18

1 2	9 51.81	+19 38.2	1.937	2.740	14.2	19.0
1 12	9 47.20	+21 2.4	1.873	2.758	10.8	18.8
1 22	9 40.16	+22 34.4	1.832	2.776	7.1	18.7
2 1	9 31.35	+24 6.5	1.820	2.794	3.8	18.5
2 11	9 21.76	+25 30.2	1.837	2.811	4.0	18.5
2 21	9 12.53	+26 38.7	1.884	2.827	7.3	18.8
3 2	9 4.70	+27 28.1	1.958	2.844	10.8	19.0
3 12	8 59.08	+27 57.9	2.055	2.859	13.8	19.2

331291 2011 EN_{1} 2 8.3 240°.67 1°.3/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.89	+ 8 37.1	1.996	2.774	14.7	21.1
1 12	9 44.15	+ 9 0.6	1.905	2.772	11.6	20.9
1 22	9 38.19	+ 9 39.2	1.837	2.770	7.9	20.7
2 1	9 30.54	+10 30.3	1.794	2.768	3.9	20.4
2 11	9 22.05	+11 29.0	1.781	2.766	1.5	20.3
2 21	9 13.71	+12 29.5	1.796	2.763	5.3	20.5
3 2	9 6.52	+13 26.3	1.840	2.761	9.3	20.7
3 12	9 1.27	+14 14.7	1.908	2.759	12.8	21.0

483568 2004 CC_{15} 2 8.3 316°.60 2°.0/ 7.2 18

1 2	9 50.67	+16 24.1	1.242	2.068	19.1	21.3
1 12	9 47.79	+17 1.3	1.162	2.060	14.9	21.0
1 22	9 41.40	+17 53.9	1.101	2.051	9.9	20.7
2 1	9 32.16	+18 55.1	1.064	2.043	4.3	20.4
2 11	9 21.42	+19 55.0	1.052	2.035	3.1	20.3
2 21	9 10.91	+20 44.3	1.065	2.028	8.7	20.6
3 2	9 2.37	+21 16.3	1.101	2.021	14.2	20.8
3 12	8 57.07	+21 28.7	1.158	2.015	18.9	21.1

345058 2005 GY_{129} 2 8.3 156°.46 2°.3/10.8 17

1 2	9 46.44	+ 3 52.9	3.073	3.808	11.0	22.0
1 12	9 42.15	+ 4 8.6	2.979	3.815	8.8	21.9
1 22	9 36.43	+ 4 36.2	2.910	3.822	6.3	21.7
2 1	9 29.66	+ 5 14.2	2.868	3.829	3.8	21.6
2 11	9 22.42	+ 6 0.3	2.857	3.835	2.3	21.5
2 21	9 15.30	+ 6 51.1	2.877	3.841	3.8	21.6
3 2	9 8.91	+ 7 42.9	2.928	3.846	6.4	21.7
3 12	9 3.76	+ 8 32.3	3.006	3.851	8.8	21.9

369908 2013 AS_{121} 2 8.3 261°.32 0°.5/ 8.5 18

1 2	9 54.62	+13 28.4	1.524	2.322	17.6	20.6
1 12	9 50.17	+13 23.0	1.434	2.314	13.8	20.3
1 22	9 42.61	+13 29.6	1.365	2.306	9.3	20.0
2 1	9 32.58	+13 44.9	1.321	2.298	4.2	19.7
2 11	9 21.28	+14 4.1	1.303	2.289	1.5	19.5
2 21	9 10.18	+14 21.9	1.314	2.281	6.9	19.8
3 2	9 0.75	+14 33.8	1.350	2.272	11.9	20.1
3 12	8 54.10	+14 37.3	1.409	2.263	16.3	20.3

210719 2000 SW_{277} 2 8.3 28°.98 17°.6/26.7 17

1 2	9 42.92	−24 6.1	1.104	1.775	29.8	19.0
1 12	9 41.68	−25 37.0	1.063	1.798	27.3	18.8
1 22	9 37.15	−26 17.1	1.032	1.824	24.6	18.7
2 1	9 30.19	−25 57.5	1.012	1.851	21.8	18.6
2 11	9 22.25	−24 36.1	1.008	1.880	19.3	18.6
2 21	9 14.93	−22 19.2	1.021	1.910	17.8	18.6
3 2	9 9.68	−19 21.7	1.054	1.941	17.7	18.7
3 12	9 7.44	−16 4.1	1.107	1.974	18.9	18.9

267479 2002 GT_{29} 2 8.3 113°.65 1°.3/ 9.5 18

1 2	9 48.92	+ 7 38.5	2.201	2.967	13.9	21.1
1 12	9 44.59	+ 8 12.7	2.123	2.982	10.9	20.9
1 22	9 38.28	+ 9 1.3	2.067	2.997	7.4	20.7
2 1	9 30.52	+10 1.4	2.039	3.011	3.7	20.5
2 11	9 22.12	+11 8.0	2.040	3.025	1.5	20.3
2 21	9 13.97	+12 15.3	2.072	3.038	4.8	20.6
3 2	9 6.93	+13 18.3	2.133	3.052	8.3	20.8
3 12	9 1.67	+14 12.8	2.219	3.064	11.5	21.1

273752 2007 EZ_{138} 2 8.3 233°.73 0°.9/ 7.6 17

1 2	9 49.24	+14 47.8	2.034	2.828	13.9	21.5
1 12	9 45.23	+15 25.4	1.944	2.823	10.8	21.3
1 22	9 38.93	+16 13.8	1.876	2.819	7.1	21.0
2 1	9 30.88	+17 8.7	1.836	2.814	3.0	20.8
2 11	9 21.96	+18 4.2	1.824	2.809	1.7	20.7
2 21	9 13.20	+18 54.5	1.842	2.804	5.8	20.9
3 2	9 5.61	+19 35.0	1.888	2.799	9.8	21.2
3 12	9 0.01	+20 3.3	1.958	2.793	13.2	21.4

320727 2008 EH_{2} 2 8.3 300°.24 0°.0/ 8.2 18

1 2	9 48.38	+12 15.2	1.681	2.481	16.1	21.1
1 12	9 45.10	+12 42.9	1.586	2.468	12.6	20.8
1 22	9 39.15	+13 25.7	1.514	2.456	8.4	20.5
2 1	9 31.08	+14 19.9	1.466	2.444	3.7	20.2
2 11	9 21.87	+15 19.2	1.446	2.432	1.4	20.0
2 21	9 12.75	+16 16.6	1.453	2.420	6.4	20.3
3 2	9 4.97	+17 5.7	1.487	2.408	11.1	20.6
3 12	8 59.56	+17 42.3	1.544	2.397	15.2	20.8

131433 2001 PB_{40} 2 8.3 101°.91 2°.5/10.3 18

1 2	9 49.10	+ 6 32.9	2.397	3.153	13.1	19.8
1 12	9 44.57	+ 6 21.1	2.311	3.161	10.5	19.6
1 22	9 38.19	+ 6 21.1	2.248	3.170	7.4	19.4
2 1	9 30.47	+ 6 31.9	2.213	3.178	4.3	19.2
2 11	9 22.15	+ 6 51.1	2.206	3.186	2.5	19.1
2 21	9 14.04	+ 7 15.5	2.230	3.194	4.7	19.3
3 2	9 6.94	+ 7 41.7	2.282	3.202	7.8	19.5
3 12	9 1.49	+ 8 6.4	2.361	3.210	10.7	19.7

322792 2001 QH_{136} 2 8.3 116°.45 2°.3/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 52.21	+ 6 26.3	2.257	3.010	13.9	21.6
1 12	9 46.97	+ 6 30.2	2.181	3.030	11.1	21.4
1 22	9 39.75	+ 6 47.3	2.128	3.050	7.8	21.2
2 1	9 31.12	+ 7 16.0	2.103	3.070	4.3	21.0
2 11	9 21.91	+ 7 52.8	2.107	3.088	2.3	20.9
2 21	9 13.01	+ 8 33.4	2.142	3.107	4.8	21.1
3 2	9 5.28	+ 9 13.8	2.206	3.124	8.1	21.4
3 12	8 59.35	+ 9 50.2	2.296	3.141	11.2	21.6

144045 2004 BK_{27} 2 8.3 338°.11 17°.3/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 20.59	+55 5.7	1.431	2.191	20.3	19.3
1 12	10 12.62	+56 18.2	1.374	2.180	18.8	19.1
1 22	9 58.34	+57 4.7	1.335	2.169	17.6	19.0
2 1	9 39.36	+57 6.9	1.314	2.160	17.3	19.0
2 11	9 18.94	+56 12.3	1.314	2.151	17.9	19.0
2 21	9 0.75	+54 20.4	1.333	2.143	19.3	19.1
3 2	8 47.39	+51 41.4	1.372	2.136	21.2	19.2
3 12	8 39.81	+48 31.2	1.429	2.131	23.3	19.3

408865 2001 SF_{302} 2 8.3 66°.16 0°.1/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.53	+13 29.2	1.665	2.461	16.4	21.6
1 12	9 47.86	+13 49.9	1.604	2.484	12.6	21.5
1 22	9 40.62	+14 22.6	1.565	2.506	8.3	21.2
2 1	9 31.54	+15 2.5	1.551	2.529	3.5	21.0
2 11	9 21.77	+15 43.6	1.566	2.552	1.4	20.9
2 21	9 12.52	+16 20.4	1.609	2.574	6.0	21.3
3 2	9 4.91	+16 48.5	1.679	2.597	10.3	21.6
3 12	8 59.69	+17 5.8	1.772	2.619	13.9	21.8

303261 2004 RV_{79} 2 8.3 198°.70 11°.3/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 5.62	+46 15.1	2.092	2.864	14.3	21.5
1 12	9 58.99	+48 11.5	2.033	2.860	12.7	21.4
1 22	9 48.61	+49 55.7	1.996	2.855	11.5	21.3
2 1	9 35.22	+51 15.5	1.985	2.850	11.4	21.3
2 11	9 20.33	+52 1.3	1.998	2.843	12.3	21.3
2 21	9 5.85	+52 9.5	2.036	2.836	13.9	21.4
3 2	8 53.60	+51 41.9	2.094	2.828	15.7	21.5
3 12	8 44.84	+50 45.3	2.170	2.819	17.5	21.7

428496 2007 VF_{319} 2 8.3 290°.52 5°.6/ 3.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.02	+29 45.0	2.254	3.062	12.2	21.1
1 12	9 45.85	+30 51.9	2.170	3.053	9.7	20.9
1 22	9 39.35	+31 58.7	2.111	3.043	7.2	20.8
2 1	9 31.07	+32 58.3	2.080	3.034	5.6	20.7
2 11	9 21.90	+33 43.9	2.076	3.024	6.3	20.7
2 21	9 12.92	+34 10.7	2.101	3.015	8.6	20.8
3 2	9 5.15	+34 17.0	2.151	3.005	11.3	21.0
3 12	8 59.45	+34 3.9	2.224	2.996	13.9	21.1

408910 2001 WS_{36} 2 8.3 99°.49 6°.5/ 3.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.30	+31 59.4	2.106	2.905	13.3	21.9
1 12	9 51.32	+33 20.4	2.058	2.931	10.5	21.8
1 22	9 42.78	+34 37.3	2.034	2.957	8.0	21.7
2 1	9 32.44	+35 41.6	2.038	2.983	6.5	21.6
2 11	9 21.45	+36 26.3	2.071	3.007	7.2	21.7
2 21	9 11.01	+36 47.9	2.132	3.031	9.3	21.9
3 2	9 2.22	+36 46.6	2.218	3.055	11.7	22.1
3 12	8 55.85	+36 25.3	2.326	3.078	14.0	22.3

86543 2000 DR_{106} 2 8.3 248°.96 1°.5/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.67	+14 38.3	1.672	2.472	16.1	19.8
1 12	9 47.80	+15 32.9	1.575	2.458	12.6	19.5
1 22	9 41.05	+16 43.2	1.500	2.444	8.3	19.2
2 1	9 31.96	+18 3.4	1.451	2.429	3.6	18.9
2 11	9 21.55	+19 25.1	1.430	2.414	2.5	18.8
2 21	9 11.15	+20 39.4	1.438	2.398	7.3	19.0
3 2	9 2.15	+21 39.4	1.472	2.381	12.1	19.3
3 12	8 55.66	+22 21.4	1.529	2.364	16.3	19.5

10602 Masakazu 2 8.3 176°.19 5°.6/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.69	+31 19.0	2.402	3.197	12.0	17.9
1 12	9 49.97	+32 18.8	2.326	3.199	9.5	17.7
1 22	9 41.92	+33 16.2	2.276	3.201	7.1	17.5
2 1	9 32.13	+34 4.3	2.253	3.202	5.6	17.4
2 11	9 21.57	+34 37.0	2.260	3.203	6.2	17.5
2 21	9 11.31	+34 50.6	2.295	3.203	8.3	17.6
3 2	9 2.38	+34 44.5	2.358	3.203	10.8	17.8
3 12	8 55.56	+34 20.5	2.443	3.202	13.2	17.9

429896 2012 TU_{87} 2 8.3 214°.89 3°.1/ 5.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.41	+23 49.4	2.559	3.355	11.3	21.8
1 12	9 45.70	+24 28.1	2.470	3.351	8.7	21.6
1 22	9 39.02	+25 9.2	2.406	3.346	5.9	21.4
2 1	9 30.88	+25 47.9	2.371	3.342	3.5	21.2
2 11	9 22.05	+26 19.3	2.366	3.336	3.6	21.2
2 21	9 13.40	+26 39.7	2.390	3.331	6.2	21.4
3 2	9 5.78	+26 47.2	2.443	3.326	9.1	21.6
3 12	8 59.88	+26 41.6	2.520	3.320	11.7	21.7

127893 2003 GU_9 2 8.3 272°.60 2°.3/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.72	+18 31.1	1.972	2.775	13.9	19.8
1 12	9 45.84	+19 19.6	1.875	2.760	10.8	19.5
1 22	9 39.50	+20 17.4	1.800	2.745	7.1	19.3
2 1	9 31.22	+21 19.1	1.753	2.730	3.4	19.0
2 11	9 21.89	+22 17.5	1.734	2.714	3.1	19.0
2 21	9 12.63	+23 6.5	1.745	2.699	6.9	19.2
3 2	9 4.56	+23 41.6	1.782	2.683	10.8	19.4
3 12	8 58.63	+24 0.7	1.842	2.667	14.4	19.6

78313 2002 PG_{69} 2 8.3 159°.07 5°.0/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.33	− 2 10.0	2.393	3.111	14.1	19.9
1 12	9 43.31	− 2 26.3	2.299	3.114	11.8	19.7
1 22	9 37.45	− 2 25.4	2.227	3.116	9.2	19.5
2 1	9 30.21	− 2 6.6	2.180	3.118	6.6	19.4
2 11	9 22.30	− 1 31.6	2.160	3.120	5.1	19.3
2 21	9 14.53	− 0 43.6	2.169	3.121	5.9	19.3
3 2	9 7.68	+ 0 12.7	2.207	3.123	8.3	19.5
3 12	9 2.44	+ 1 11.8	2.271	3.124	11.0	19.6

169177 2001 QP_{259} 2 8.3 125°.00 3°.8/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.26	+ 1 4.9	2.567	3.298	13.0	20.6
1 12	9 43.07	+ 0 57.1	2.479	3.306	10.6	20.4
1 22	9 37.19	+ 1 4.0	2.412	3.314	8.0	20.3
2 1	9 30.06	+ 1 25.1	2.372	3.322	5.3	20.1
2 11	9 22.37	+ 1 58.4	2.360	3.330	3.8	20.0
2 21	9 14.84	+ 2 40.6	2.379	3.337	4.9	20.1
3 2	9 8.21	+ 3 27.6	2.426	3.345	7.5	20.3
3 12	9 3.06	+ 4 15.0	2.500	3.352	10.1	20.5

252605 2001 XA_{56} 2 8.3 110°.45 2°.5/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.73	+19 16.6	2.050	2.848	13.6	20.8
1 12	9 46.99	+20 13.8	1.981	2.864	10.4	20.6
1 22	9 39.98	+21 17.8	1.936	2.879	6.8	20.4
2 1	9 31.30	+22 22.6	1.919	2.894	3.3	20.3
2 11	9 21.92	+23 21.3	1.931	2.909	3.2	20.3
2 21	9 12.87	+24 8.5	1.973	2.923	6.5	20.5
3 2	9 5.16	+24 41.0	2.042	2.937	10.0	20.7
3 12	8 59.52	+24 58.0	2.136	2.950	13.0	21.0

30877 1992 ES_{30} 2 8.3 55°.37 4°.6/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.63	− 3 30.7	2.305	3.024	14.6	18.7
1 12	9 41.30	− 3 5.2	2.215	3.031	12.2	18.6
1 22	9 36.15	− 2 18.3	2.145	3.037	9.3	18.4
2 1	9 29.65	− 1 10.6	2.101	3.044	6.5	18.2
2 11	9 22.52	+ 0 14.5	2.086	3.051	4.6	18.1
2 21	9 15.54	+ 1 51.4	2.100	3.058	5.5	18.2
3 2	9 9.51	+ 3 33.0	2.143	3.066	8.1	18.4
3 12	9 5.08	+ 5 12.5	2.213	3.073	10.9	18.5

425692 2011 AL_{62} 2 8.3 122°.86 4°.5/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.04	+24 2.9	2.003	2.812	13.5	21.5
1 12	9 46.72	+25 26.1	1.933	2.820	10.4	21.3
1 22	9 39.95	+26 53.8	1.887	2.827	7.2	21.2
2 1	9 31.35	+28 18.1	1.868	2.835	4.7	21.0
2 11	9 21.89	+29 30.7	1.879	2.842	5.3	21.1
2 21	9 12.71	+30 25.4	1.918	2.849	8.2	21.3
3 2	9 4.89	+30 59.4	1.984	2.856	11.3	21.5
3 12	8 59.27	+31 12.9	2.072	2.863	14.2	21.7

248315 2005 OF_1 2 8.3 225°.84 2°.9/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.08	+25 40.4	2.846	3.630	10.6	20.8
1 12	9 49.04	+25 53.0	2.749	3.622	8.2	20.7
1 22	9 41.08	+26 5.1	2.677	3.613	5.6	20.5
2 1	9 31.74	+26 12.8	2.635	3.603	3.3	20.3
2 11	9 21.76	+26 12.4	2.623	3.594	3.3	20.3
2 21	9 11.99	+26 1.5	2.643	3.584	5.7	20.4
3 2	9 3.25	+25 39.6	2.693	3.574	8.4	20.6
3 12	8 56.20	+25 7.2	2.769	3.563	10.9	20.8

369612 2011 CK_{70} 2 8.3 54°.58 6°.8/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.68	− 2 2.7	1.847	2.579	17.3	20.4
1 12	9 46.41	− 2 57.8	1.764	2.585	14.6	20.2
1 22	9 39.75	− 3 33.7	1.701	2.590	11.5	20.0
2 1	9 31.27	− 3 48.0	1.661	2.596	8.5	19.9
2 11	9 21.93	− 3 40.8	1.647	2.602	6.9	19.8
2 21	9 12.81	− 3 15.0	1.661	2.609	7.8	19.8
3 2	9 4.98	− 2 35.5	1.701	2.615	10.4	20.0
3 12	8 59.28	− 1 49.2	1.764	2.621	13.4	20.2

56694 2000 LC_{24} 2 8.3 135°.50 3°.3/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.97	+ 1 7.8	2.315	3.049	14.1	19.4
1 12	9 44.57	+ 1 32.2	2.230	3.062	11.5	19.3
1 22	9 38.26	+ 2 14.6	2.166	3.074	8.4	19.1
2 1	9 30.55	+ 3 13.5	2.129	3.086	5.2	18.9
2 11	9 22.21	+ 4 25.1	2.122	3.097	3.3	18.8
2 21	9 14.07	+ 5 43.9	2.145	3.108	5.0	18.9
3 2	9 6.94	+ 7 3.9	2.197	3.118	8.0	19.1
3 12	9 1.51	+ 8 19.7	2.276	3.127	11.0	19.3

424692 2008 RW_{144} 2 8.3 56°.06 0°.9/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.66	+15 9.5	1.993	2.789	14.0	21.3
1 12	9 44.75	+15 44.9	1.912	2.793	10.8	21.1
1 22	9 38.59	+16 30.4	1.854	2.797	7.1	20.9
2 1	9 30.76	+17 21.6	1.822	2.801	3.0	20.6
2 11	9 22.14	+18 12.6	1.820	2.804	1.7	20.6
2 21	9 13.76	+18 58.0	1.847	2.808	5.8	20.8
3 2	9 6.61	+19 33.5	1.901	2.813	9.6	21.1
3 12	9 1.48	+19 56.9	1.979	2.817	13.0	21.3

4130 Ramanujan 2 8.3 281°.30 2°.7/10.7 18

1 2	9 45.79	+ 4 14.6	2.292	3.048	13.7	17.3
1 12	9 42.27	+ 4 30.5	2.196	3.044	11.0	17.1
1 22	9 36.85	+ 5 2.4	2.121	3.041	7.9	16.9
2 1	9 29.99	+ 5 48.8	2.073	3.037	4.6	16.7
2 11	9 22.42	+ 6 46.3	2.054	3.034	2.7	16.6
2 21	9 14.95	+ 7 50.0	2.064	3.030	4.8	16.7
3 2	9 8.42	+ 8 54.6	2.103	3.027	8.2	16.9
3 12	9 3.53	+ 9 55.1	2.168	3.023	11.3	17.1

278003 2006 UC_{118} 2 8.3 299°.77 6°.5/ 2.6 17

1 2	9 52.08	+33 57.3	2.330	3.133	12.1	20.6
1 12	9 47.42	+34 57.7	2.252	3.125	9.8	20.5
1 22	9 40.36	+35 54.4	2.198	3.118	7.6	20.3
2 1	9 31.52	+36 40.2	2.170	3.111	6.5	20.2
2 11	9 21.85	+37 8.8	2.171	3.103	7.1	20.3
2 21	9 12.44	+37 16.4	2.199	3.096	9.1	20.4
3 2	9 4.35	+37 2.6	2.252	3.090	11.5	20.5
3 12	8 58.40	+36 29.4	2.328	3.083	13.8	20.7

455430 2003 QW_{35} 2 8.3 133°.79 0°.7/ 7.8 18

1 2	9 55.71	+15 19.6	2.165	2.943	13.7	22.6
1 12	9 49.83	+15 45.4	2.090	2.960	10.5	22.4
1 22	9 41.73	+16 19.3	2.039	2.977	6.9	22.2
2 1	9 32.04	+16 57.1	2.016	2.994	2.9	22.0
2 11	9 21.69	+17 34.0	2.024	3.009	1.5	21.9
2 21	9 11.70	+18 5.4	2.063	3.023	5.4	22.2
3 2	9 3.04	+18 28.2	2.130	3.037	9.0	22.5
3 12	8 56.41	+18 41.1	2.224	3.049	12.2	22.7

184016 2004 FW_{27} 2 8.3 300°.34 0°.3/ 8.1 18

1 2	9 50.18	+14 15.2	1.653	2.456	16.2	20.7
1 12	9 46.60	+14 29.7	1.556	2.440	12.7	20.4
1 22	9 40.23	+14 56.4	1.482	2.425	8.5	20.2
2 1	9 31.62	+15 31.7	1.432	2.410	3.7	19.8
2 11	9 21.79	+16 9.6	1.410	2.395	1.5	19.6
2 21	9 12.06	+16 44.3	1.415	2.381	6.6	19.9
3 2	9 3.73	+17 10.6	1.446	2.366	11.4	20.2
3 12	8 57.88	+17 25.4	1.500	2.352	15.6	20.4

104813 2000 HO_{49} 2 8.3 149°.48 6°.9/ 1.6 18

1 2	9 53.45	+36 17.1	2.467	3.263	11.7	19.7
1 12	9 48.34	+37 30.7	2.402	3.267	9.6	19.6
1 22	9 40.89	+38 39.0	2.361	3.271	7.7	19.5
2 1	9 31.73	+39 34.6	2.348	3.275	6.9	19.4
2 11	9 21.80	+40 11.2	2.363	3.278	7.6	19.5
2 21	9 12.19	+40 25.6	2.404	3.281	9.3	19.6
3 2	9 3.92	+40 17.6	2.471	3.285	11.4	19.7
3 12	8 57.76	+39 49.9	2.559	3.287	13.4	19.9

200086 1992 QS_2 2 8.3 70°.42 3°.6/11.4 18

1 2	9 47.86	+ 2 16.4	2.095	2.844	15.0	20.5
1 12	9 43.84	+ 2 18.7	2.021	2.862	12.2	20.3
1 22	9 37.83	+ 2 38.4	1.968	2.880	8.9	20.2
2 1	9 30.38	+ 3 14.4	1.940	2.898	5.6	20.0
2 11	9 22.32	+ 4 3.3	1.941	2.916	3.6	19.9
2 21	9 14.54	+ 5 0.2	1.971	2.935	5.3	20.0
3 2	9 7.92	+ 5 59.7	2.029	2.953	8.4	20.3
3 12	9 3.10	+ 6 56.4	2.113	2.971	11.5	20.5

505664 2014 UU_7 2 8.3 62°.36 2°.8/10.7 18

1 2	9 46.99	+ 3 3.7	1.746	2.513	16.9	20.3
1 12	9 43.73	+ 3 43.4	1.663	2.519	13.6	20.1
1 22	9 38.08	+ 4 46.3	1.601	2.524	9.7	19.9
2 1	9 30.59	+ 6 9.8	1.563	2.530	5.5	19.6
2 11	9 22.21	+ 7 47.7	1.554	2.536	2.8	19.5
2 21	9 14.05	+ 9 31.5	1.573	2.542	5.7	19.7
3 2	9 7.18	+11 12.4	1.620	2.548	9.9	19.9
3 12	9 2.46	+12 42.8	1.692	2.554	13.7	20.2

359629 2011 QX_{20} 2 8.3 87°.19 1°.1/ 8.9 18

1 2	9 54.03	+10 32.5	1.545	2.335	17.7	21.7
1 12	9 49.29	+10 44.3	1.479	2.353	13.9	21.5
1 22	9 41.73	+11 11.6	1.434	2.371	9.3	21.3
2 1	9 32.13	+11 50.7	1.414	2.389	4.3	21.0
2 11	9 21.68	+12 35.5	1.421	2.407	1.5	20.9
2 21	9 11.74	+13 19.7	1.456	2.424	6.2	21.2
3 2	9 3.53	+13 57.7	1.518	2.441	10.8	21.5
3 12	8 57.93	+14 26.0	1.603	2.457	14.7	21.8

340834 2006 UP_{306} 2 8.3 327°.84 1°.5/ 7.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.54	+18 2.4	2.135	2.935	13.1	20.7
1 12	9 44.59	+18 27.8	2.046	2.929	10.1	20.4
1 22	9 38.47	+19 0.1	1.980	2.924	6.6	20.2
2 1	9 30.72	+19 35.0	1.942	2.919	2.9	20.0
2 11	9 22.18	+20 7.6	1.932	2.914	2.2	19.9
2 21	9 13.83	+20 33.5	1.951	2.910	5.8	20.1
3 2	9 6.63	+20 49.4	1.998	2.906	9.5	20.3
3 12	9 1.33	+20 54.1	2.069	2.902	12.7	20.5

326311 1999 RL_{162} 2 8.3 133°.50 4°.0/ 4.7 18

1 2	9 53.83	+26 47.6	2.547	3.340	11.4	21.4
1 12	9 48.23	+27 38.4	2.478	3.355	8.9	21.2
1 22	9 40.61	+28 29.3	2.435	3.369	6.2	21.0
2 1	9 31.55	+29 14.5	2.420	3.383	4.2	20.9
2 11	9 21.90	+29 48.9	2.436	3.396	4.5	21.0
2 21	9 12.58	+30 9.1	2.482	3.409	6.8	21.1
3 2	9 4.45	+30 13.8	2.555	3.421	9.4	21.3
3 12	8 58.17	+30 4.0	2.653	3.432	11.7	21.5

151816 2003 FF_{90} 2 8.3 233°.71 1°.5/ 7.1 17

1 2	9 53.54	+19 3.1	2.599	3.380	11.6	20.6
1 12	9 48.13	+19 24.6	2.491	3.364	9.0	20.4
1 22	9 40.68	+19 51.1	2.408	3.347	5.9	20.2
2 1	9 31.66	+20 18.7	2.353	3.330	2.7	20.0
2 11	9 21.83	+20 43.3	2.330	3.312	2.1	19.9
2 21	9 12.06	+21 1.1	2.338	3.293	5.3	20.1
3 2	9 3.25	+21 9.8	2.376	3.273	8.6	20.2
3 12	8 56.13	+21 8.5	2.439	3.253	11.6	20.4

369427 2009 WB_{211} 2 8.3 162°.57 5°.1/12.4 18

1 2	9 48.98	− 1 23.9	2.251	2.974	14.8	21.3
1 12	9 44.71	− 1 45.1	2.159	2.977	12.3	21.1
1 22	9 38.45	− 1 48.9	2.088	2.980	9.5	20.9
2 1	9 30.69	− 1 34.6	2.041	2.982	6.8	20.7
2 11	9 22.21	− 1 3.5	2.023	2.985	5.1	20.6
2 21	9 13.88	− 0 19.1	2.033	2.986	6.1	20.7
3 2	9 6.56	+ 0 33.8	2.072	2.988	8.7	20.9
3 12	9 0.96	+ 1 29.4	2.136	2.989	11.6	21.0

463283 2012 HS_{16} 2 8.3 197°.42 2°.3/10.5 17

1 2	9 47.95	+ 4 12.7	2.484	3.230	13.0	22.2
1 12	9 43.79	+ 4 40.5	2.383	3.227	10.4	22.0
1 22	9 37.80	+ 5 23.7	2.305	3.224	7.4	21.8
2 1	9 30.41	+ 6 20.8	2.255	3.220	4.3	21.6
2 11	9 22.32	+ 7 28.0	2.235	3.215	2.3	21.4
2 21	9 14.31	+ 8 40.3	2.245	3.210	4.6	21.6
3 2	9 7.17	+ 9 52.5	2.285	3.205	7.8	21.8
3 12	9 1.60	+10 59.7	2.352	3.199	10.9	22.0

336542 2009 BM_{52} 2 8.3 41°.66 0°.4/ 8.7 18

1 2	9 46.28	+ 8 33.3	1.772	2.560	15.8	20.1
1 12	9 42.97	+ 9 40.5	1.711	2.586	12.3	20.0
1 22	9 37.41	+11 5.3	1.674	2.612	8.1	19.8
2 1	9 30.24	+12 42.1	1.662	2.639	3.6	19.6
2 11	9 22.42	+14 22.6	1.680	2.665	1.1	19.4
2 21	9 14.98	+15 58.5	1.726	2.693	5.5	19.8
3 2	9 8.90	+17 22.9	1.801	2.720	9.6	20.1
3 12	9 4.88	+18 31.4	1.900	2.748	13.0	20.3

17010 1999 CQ_{72} 2 8.3 284°.70 7°.1/13.3 18 R

1 2	9 47.70	− 4 44.5	1.945	2.664	16.9	17.9
1 12	9 44.34	− 5 14.3	1.830	2.640	14.6	17.6
1 22	9 38.61	− 5 22.4	1.734	2.616	11.8	17.4
2 1	9 30.93	− 5 5.8	1.661	2.592	9.0	17.2
2 11	9 22.09	− 4 24.3	1.614	2.567	7.2	17.0
2 21	9 13.11	− 3 20.7	1.594	2.542	8.0	17.0
3 2	9 5.13	− 2 1.4	1.600	2.517	10.7	17.1
3 12	8 59.12	− 0 34.5	1.631	2.492	14.1	17.2

243660 1999 VU_{13} 2 8.3 131°.94 9°.0/16.5 18

1 2	9 53.24	−14 13.6	2.374	3.002	16.3	21.6
1 12	9 47.85	−15 5.9	2.293	3.021	14.4	21.5
1 22	9 40.43	−15 35.7	2.231	3.040	12.4	21.4
2 1	9 31.52	−15 39.6	2.192	3.057	10.5	21.3
2 11	9 21.93	−15 16.9	2.178	3.073	9.2	21.2
2 21	9 12.56	−14 30.2	2.190	3.089	9.1	21.3
3 2	9 4.29	−13 24.2	2.230	3.103	10.2	21.4
3 12	8 57.82	−12 6.3	2.295	3.117	12.0	21.5

168923 2000 YU_{56} 2 8.3 41°.27 0°.3/ 8.1 18

1 2	9 49.99	+12 50.4	1.401	2.212	18.2	19.8
1 12	9 46.60	+13 22.1	1.332	2.220	14.1	19.6
1 22	9 40.22	+14 10.0	1.283	2.228	9.3	19.3
2 1	9 31.58	+15 8.6	1.259	2.237	4.0	19.0
2 11	9 21.91	+16 10.0	1.261	2.247	1.6	18.9
2 21	9 12.67	+17 6.2	1.290	2.256	7.0	19.2
3 2	9 5.20	+17 50.7	1.344	2.267	11.9	19.5
3 12	9 0.47	+18 20.3	1.420	2.277	16.1	19.8

222781 2002 CX_{142} 2 8.3 3°.30 1°.5/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.53	+ 8 29.3	1.624	2.418	16.8	20.4
1 12	9 43.60	+ 8 50.8	1.542	2.417	13.3	20.1
1 22	9 38.12	+ 9 30.5	1.480	2.417	9.1	19.9
2 1	9 30.66	+10 25.5	1.443	2.418	4.5	19.6
2 11	9 22.24	+11 29.8	1.434	2.419	1.7	19.4
2 21	9 14.04	+12 36.3	1.451	2.420	6.0	19.7
3 2	9 7.24	+13 37.9	1.495	2.423	10.5	20.0
3 12	9 2.75	+14 29.1	1.562	2.425	14.5	20.2

508622 2017 SG_{40} 2 8.3 183°.98 1°.6/ 6.8 17

1 2	9 50.09	+20 7.6	2.855	3.640	10.5	22.0
1 12	9 45.17	+20 28.1	2.764	3.640	8.1	21.8
1 22	9 38.54	+20 51.9	2.700	3.640	5.3	21.6
2 1	9 30.68	+21 15.7	2.664	3.640	2.5	21.4
2 11	9 22.26	+21 36.0	2.659	3.639	2.1	21.4
2 21	9 14.01	+21 49.8	2.685	3.638	4.8	21.6
3 2	9 6.67	+21 55.2	2.740	3.636	7.7	21.7
3 12	9 0.82	+21 51.7	2.821	3.634	10.2	21.9

127844 2003 FL_{109} 2 8.3 227°.95 4°.7/ 3.9 17

1 2	9 50.99	+25 36.9	2.244	3.048	12.4	20.5
1 12	9 46.64	+26 58.3	2.156	3.039	9.7	20.3
1 22	9 39.94	+28 23.9	2.092	3.030	6.8	20.1
2 1	9 31.42	+29 46.3	2.058	3.020	4.8	20.0
2 11	9 21.95	+30 57.6	2.052	3.010	5.5	20.0
2 21	9 12.56	+31 52.1	2.076	3.000	8.1	20.1
3 2	9 4.31	+32 26.4	2.127	2.989	11.1	20.3
3 12	8 58.09	+32 40.5	2.200	2.978	13.9	20.5

151873 2003 KL_{9} 2 8.3 229°.02 1°.1/ 7.5 18

1 2	9 52.02	+17 8.3	2.283	3.070	12.8	20.8
1 12	9 47.17	+17 28.5	2.185	3.061	9.9	20.6
1 22	9 40.15	+17 55.6	2.111	3.052	6.5	20.3
2 1	9 31.47	+18 25.8	2.064	3.042	2.8	20.1
2 11	9 21.96	+18 54.6	2.048	3.031	1.8	20.0
2 21	9 12.57	+19 17.7	2.061	3.021	5.5	20.2
3 2	9 4.27	+19 32.4	2.104	3.010	9.2	20.4
3 12	8 57.85	+19 37.0	2.171	2.998	12.4	20.6

210402 2007 VJ_{254} 2 8.3 90°.99 1°.7/ 9.9 18

1 2	9 46.39	+ 6 24.8	2.402	3.163	13.0	20.8
1 12	9 42.55	+ 6 55.4	2.320	3.175	10.3	20.6
1 22	9 36.92	+ 7 40.0	2.261	3.187	7.1	20.4
2 1	9 30.01	+ 8 36.2	2.230	3.200	3.7	20.2
2 11	9 22.52	+ 9 39.7	2.228	3.212	1.7	20.1
2 21	9 15.23	+10 45.5	2.257	3.224	4.4	20.3
3 2	9 8.90	+11 48.8	2.315	3.236	7.7	20.5
3 12	9 4.14	+12 45.3	2.399	3.248	10.6	20.7

214232 2005 EL_{155} 2 8.3 52°.92 0°.7/ 8.8 18

1 2	9 51.06	+11 6.3	1.424	2.227	18.3	21.0
1 12	9 47.26	+11 25.0	1.360	2.243	14.3	20.7
1 22	9 40.54	+12 0.4	1.317	2.258	9.5	20.5
2 1	9 31.68	+12 47.9	1.297	2.274	4.3	20.2
2 11	9 21.92	+13 40.6	1.304	2.290	1.4	20.1
2 21	9 12.66	+14 31.3	1.338	2.307	6.5	20.4
3 2	9 5.19	+15 13.8	1.398	2.323	11.3	20.8
3 12	9 0.40	+15 44.5	1.480	2.340	15.4	21.0

75194 1999 VQ_{171} 2 8.3 143°.85 3°.8/ 5.3 18

1 2	9 55.63	+23 56.3	2.141	2.937	13.2	20.6
1 12	9 50.01	+24 52.8	2.069	2.949	10.2	20.4
1 22	9 41.99	+25 52.2	2.022	2.961	6.9	20.2
2 1	9 32.24	+26 47.9	2.003	2.972	4.2	20.1
2 11	9 21.72	+27 33.1	2.014	2.982	4.5	20.1
2 21	9 11.56	+28 3.2	2.054	2.991	7.3	20.3
3 2	9 2.80	+28 16.4	2.122	3.000	10.5	20.5
3 12	8 56.21	+28 13.2	2.214	3.008	13.3	20.7

219396 2000 SP_{173} 2 8.3 177°.14 6°.5/13.4 18

1 2	9 49.97	− 4 52.5	2.276	2.976	15.2	20.2
1 12	9 45.50	− 5 31.1	2.181	2.978	13.0	20.0
1 22	9 39.00	− 5 51.3	2.107	2.979	10.4	19.9
2 1	9 30.97	− 5 51.2	2.057	2.979	8.0	19.7
2 11	9 22.17	− 5 31.3	2.034	2.980	6.5	19.6
2 21	9 13.49	− 4 54.0	2.039	2.980	7.1	19.6
3 2	9 5.81	− 4 3.9	2.072	2.979	9.2	19.8
3 12	8 59.87	− 3 7.0	2.131	2.978	11.8	19.9

193768 2001 MW_{16} 2 8.3 194°.69 3°.6/ 5.7 18

1 2	9 56.01	+21 42.3	1.860	2.661	14.8	21.5
1 12	9 50.83	+22 41.0	1.775	2.659	11.4	21.3
1 22	9 42.86	+23 46.5	1.714	2.656	7.7	21.0
2 1	9 32.73	+24 51.5	1.680	2.652	4.3	20.8
2 11	9 21.52	+25 47.7	1.674	2.648	4.4	20.8
2 21	9 10.52	+26 28.7	1.698	2.643	7.9	21.0
3 2	9 1.02	+26 51.1	1.749	2.637	11.8	21.2
3 12	8 54.01	+26 55.0	1.823	2.630	15.2	21.4

160762 2000 SL_{106} 2 8.3 96°.40 0°.4/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.17	+11 30.1	1.660	2.447	16.8	20.8
1 12	9 49.23	+11 54.4	1.594	2.468	13.1	20.6
1 22	9 41.62	+12 32.9	1.549	2.488	8.7	20.4
2 1	9 32.10	+13 21.1	1.531	2.507	3.8	20.2
2 11	9 21.79	+14 12.8	1.541	2.527	1.3	20.0
2 21	9 11.97	+15 1.6	1.579	2.545	6.0	20.4
3 2	9 3.78	+15 42.3	1.645	2.564	10.4	20.7
3 12	8 58.05	+16 11.9	1.735	2.582	14.1	21.0

79997 1999 FW_{22} 2 8.3 144°.46 3°.1/ 6.2 18

1 2	9 56.93	+23 46.5	2.215	3.006	13.0	18.1
1 12	9 50.86	+24 12.2	2.138	3.016	10.0	17.9
1 22	9 42.47	+24 39.5	2.086	3.025	6.7	17.7
2 1	9 32.42	+25 3.1	2.062	3.033	3.7	17.5
2 11	9 21.68	+25 17.8	2.068	3.041	3.7	17.5
2 21	9 11.32	+25 20.5	2.104	3.049	6.6	17.7
3 2	9 2.36	+25 9.9	2.168	3.056	9.8	17.9
3 12	8 55.53	+24 47.0	2.257	3.062	12.7	18.1

1635 Bohrmann 2 8.3 176°.81 0°.6/ 8.8 18 R

1 2	9 48.87	+11 9.5	2.240	3.018	13.3	15.9
1 12	9 44.68	+11 29.3	2.150	3.019	10.4	15.7
1 22	9 38.47	+12 0.4	2.084	3.019	7.0	15.5
2 1	9 30.73	+12 40.0	2.044	3.020	3.2	15.3
2 11	9 22.28	+13 23.8	2.034	3.020	1.1	15.1
2 21	9 13.99	+14 7.2	2.054	3.020	4.9	15.4
3 2	9 6.75	+14 46.0	2.102	3.020	8.5	15.6
3 12	9 1.29	+15 17.1	2.176	3.019	11.8	15.8

44054 1998 FR_{26} 2 8.3 26°.34 1°.3/ 7.6 18

1 2	9 51.13	+14 21.5	1.226	2.048	19.6	18.8
1 12	9 48.03	+15 2.9	1.155	2.050	15.2	18.5
1 22	9 41.50	+16 1.9	1.104	2.052	10.0	18.2
2 1	9 32.25	+17 11.7	1.076	2.055	4.2	17.9
2 11	9 21.71	+18 22.1	1.074	2.059	2.5	17.8
2 21	9 11.56	+19 23.4	1.097	2.062	8.2	18.1
3 2	9 3.45	+20 8.3	1.144	2.066	13.6	18.5
3 12	8 58.51	+20 33.9	1.211	2.070	18.2	18.7

357995 2006 DD_{36} 2 8.3 342°.17 0°.2/ 8.4 17

1 2	9 47.98	+12 14.3	1.263	2.083	19.2	21.3
1 12	9 45.56	+12 33.0	1.184	2.076	15.1	21.0
1 22	9 39.88	+13 9.9	1.123	2.070	10.2	20.7
2 1	9 31.58	+14 0.9	1.086	2.064	4.5	20.3
2 11	9 21.94	+14 58.3	1.073	2.059	1.6	20.1
2 21	9 12.53	+15 53.4	1.086	2.055	7.5	20.5
3 2	9 4.95	+16 38.6	1.122	2.052	13.0	20.8
3 12	9 0.36	+17 9.1	1.179	2.049	17.8	21.0

29193 Dolphyn 2 8.3 320°.11 5°.8/ 2.9 18

1 2	9 47.50	+27 52.4	2.035	2.852	13.0	18.1
1 12	9 44.25	+29 19.5	1.950	2.839	10.3	17.9
1 22	9 38.54	+30 49.7	1.889	2.826	7.5	17.7
2 1	9 30.88	+32 14.8	1.856	2.813	5.9	17.6
2 11	9 22.21	+33 26.1	1.850	2.801	6.7	17.6
2 21	9 13.64	+34 17.3	1.872	2.789	9.3	17.7
3 2	9 6.31	+34 45.2	1.919	2.777	12.3	17.9
3 12	9 1.15	+34 50.3	1.987	2.766	15.1	18.0

147402 2003 FB_{34} 2 8.3 51°.73 1°.0/ 7.6 18

1 2	9 50.86	+15 53.4	1.804	2.604	15.2	20.1
1 12	9 46.71	+16 18.5	1.724	2.607	11.7	19.9
1 22	9 40.04	+16 53.4	1.666	2.610	7.7	19.6
2 1	9 31.47	+17 33.5	1.635	2.613	3.3	19.4
2 11	9 22.03	+18 13.0	1.631	2.616	1.9	19.3
2 21	9 12.87	+18 46.3	1.657	2.619	6.2	19.6
3 2	9 5.13	+19 9.5	1.709	2.622	10.4	19.8
3 12	8 59.66	+19 20.7	1.784	2.626	14.0	20.1

61615 2000 QE_{98} 2 8.3 222°.44 0°.7/ 7.9 18

1 2	9 52.26	+13 49.1	1.800	2.592	15.5	20.0
1 12	9 47.96	+14 26.6	1.707	2.585	12.1	19.8
1 22	9 41.01	+15 17.5	1.636	2.578	8.0	19.5
2 1	9 31.97	+16 17.1	1.592	2.570	3.4	19.2
2 11	9 21.83	+17 18.7	1.576	2.561	1.7	19.0
2 21	9 11.80	+18 15.4	1.589	2.552	6.4	19.3
3 2	9 3.12	+19 1.5	1.630	2.543	10.9	19.6
3 12	8 56.77	+19 34.0	1.694	2.533	14.8	19.8

301424 2009 DG_{57} 2 8.3 330°.93 0°.2/ 8.5 18

1 2	9 45.65	+11 41.7	2.086	2.876	13.7	20.5
1 12	9 42.44	+12 11.3	1.992	2.868	10.7	20.3
1 22	9 37.13	+12 53.5	1.921	2.861	7.2	20.0
2 1	9 30.21	+13 45.2	1.877	2.854	3.2	19.8
2 11	9 22.49	+14 41.2	1.861	2.847	1.1	19.6
2 21	9 14.88	+15 36.0	1.874	2.840	5.2	19.9
3 2	9 8.33	+16 24.7	1.915	2.834	9.1	20.1
3 12	9 3.60	+17 3.7	1.981	2.829	12.6	20.3

258169 2001 SR_{121} 2 8.3 95°.07 3°.7/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.87	+ 2 49.2	1.953	2.703	15.9	21.1
1 12	9 46.31	+ 2 48.0	1.880	2.722	12.9	20.9
1 22	9 39.55	+ 3 4.7	1.827	2.741	9.4	20.7
2 1	9 31.19	+ 3 38.3	1.801	2.760	5.8	20.5
2 11	9 22.16	+ 4 25.3	1.802	2.778	3.7	20.4
2 21	9 13.46	+ 5 20.4	1.832	2.796	5.6	20.6
3 2	9 6.04	+ 6 17.8	1.891	2.814	9.0	20.8
3 12	9 0.64	+ 7 12.1	1.975	2.831	12.2	21.1

290327 2005 SJ_{217} 2 8.3 38°.32 9°.6/ 2.7 18

1 2	9 57.50	+36 30.5	1.499	2.317	16.8	19.6
1 12	9 52.62	+37 44.9	1.453	2.331	13.8	19.4
1 22	9 44.20	+38 50.0	1.428	2.347	11.1	19.3
2 1	9 33.26	+39 34.3	1.427	2.363	9.6	19.3
2 11	9 21.44	+39 48.9	1.451	2.379	10.3	19.4
2 21	9 10.51	+39 31.3	1.500	2.397	12.6	19.5
3 2	9 1.98	+38 44.0	1.570	2.414	15.3	19.7
3 12	8 56.73	+37 33.6	1.660	2.432	17.9	20.0

24169 1999 WQ_{11} 2 8.3 242°.89 1°.9/ 9.6 18

1 2	9 52.39	+ 8 42.0	1.998	2.767	15.0	19.3
1 12	9 47.82	+ 8 41.0	1.892	2.753	12.0	19.1
1 22	9 40.81	+ 8 53.4	1.809	2.738	8.3	18.9
2 1	9 31.87	+ 9 17.7	1.752	2.723	4.3	18.6
2 11	9 21.88	+ 9 50.5	1.723	2.707	2.0	18.4
2 21	9 11.90	+10 27.2	1.724	2.691	5.6	18.6
3 2	9 3.06	+11 3.1	1.753	2.674	9.7	18.8
3 12	8 56.29	+11 34.1	1.808	2.656	13.5	19.0

340565 2006 KS_{96} 2 8.3 128°.75 2°.8/ 5.0 17

1 2	9 48.65	+20 17.9	2.735	3.526	10.8	21.3
1 12	9 44.24	+21 48.0	2.659	3.538	8.2	21.1
1 22	9 38.05	+23 24.2	2.609	3.550	5.4	21.0
2 1	9 30.54	+25 0.3	2.591	3.562	3.1	20.8
2 11	9 22.40	+26 30.0	2.604	3.574	3.4	20.9
2 21	9 14.40	+27 48.0	2.648	3.585	5.9	21.1
3 2	9 7.30	+28 50.8	2.722	3.595	8.6	21.2
3 12	9 1.73	+29 37.3	2.821	3.606	11.0	21.4

296464 2009 HC_{84} 2 8.3 172°.03 2°.5/10.5 18

1 2	9 50.54	+ 4 53.4	2.298	3.047	13.8	21.9
1 12	9 45.89	+ 5 8.0	2.205	3.050	11.1	21.7
1 22	9 39.25	+ 5 37.7	2.135	3.054	7.9	21.5
2 1	9 31.10	+ 6 21.0	2.091	3.056	4.5	21.3
2 11	9 22.22	+ 7 14.3	2.077	3.058	2.5	21.2
2 21	9 13.49	+ 8 12.8	2.094	3.059	4.9	21.3
3 2	9 5.78	+ 9 11.6	2.140	3.060	8.3	21.6
3 12	8 59.81	+10 5.8	2.212	3.059	11.4	21.8

284726 2008 UE_{111} 2 8.3 87°.58 1°.5/ 9.2 18

1 2	9 54.51	+10 18.0	1.486	2.278	18.2	21.4
1 12	9 49.85	+10 18.1	1.417	2.292	14.3	21.2
1 22	9 42.24	+10 33.9	1.369	2.305	9.7	20.9
2 1	9 32.46	+11 2.3	1.344	2.319	4.7	20.7
2 11	9 21.74	+11 37.9	1.347	2.332	1.8	20.5
2 21	9 11.50	+12 14.5	1.378	2.346	6.4	20.8
3 2	9 3.05	+12 46.8	1.435	2.359	11.1	21.1
3 12	8 57.32	+13 10.9	1.514	2.372	15.2	21.4

168490 1999 RC_{152} 2 8.3 197°.97 1°.5/ 7.2 18

1 2	9 54.78	+17 37.7	2.160	2.945	13.5	21.3
1 12	9 49.42	+18 7.8	2.067	2.942	10.4	21.1
1 22	9 41.72	+18 45.2	1.997	2.938	6.8	20.9
2 1	9 32.21	+19 25.4	1.956	2.933	3.0	20.6
2 11	9 21.82	+20 3.0	1.945	2.927	2.2	20.5
2 21	9 11.59	+20 33.2	1.964	2.921	6.0	20.8
3 2	9 2.58	+20 52.8	2.012	2.914	9.7	21.0
3 12	8 55.63	+21 0.5	2.084	2.906	13.0	21.2

290914 2005 WY_{113} 2 8.3 164°.72 0°.4/ 8.6 18

1 2	9 51.47	+12 45.0	2.067	2.849	14.1	21.5
1 12	9 46.85	+12 54.3	1.980	2.851	11.0	21.2
1 22	9 39.98	+13 13.9	1.916	2.853	7.3	21.0
2 1	9 31.44	+13 40.7	1.878	2.855	3.3	20.8
2 11	9 22.11	+14 10.5	1.870	2.856	1.1	20.6
2 21	9 13.00	+14 39.0	1.892	2.857	5.3	20.9
3 2	9 5.11	+15 2.5	1.941	2.858	9.2	21.1
3 12	8 59.20	+15 18.4	2.016	2.859	12.6	21.3

310335 2011 UT_{191} 2 8.3 167°.26 3°.2/10.9 18

1 2	9 51.49	+ 2 50.9	2.024	2.770	15.5	21.5
1 12	9 46.91	+ 3 10.8	1.933	2.776	12.6	21.3
1 22	9 40.06	+ 3 50.0	1.865	2.780	9.1	21.1
2 1	9 31.49	+ 4 46.8	1.822	2.784	5.4	20.9
2 11	9 22.08	+ 5 57.0	1.808	2.787	3.2	20.7
2 21	9 12.84	+ 7 14.5	1.824	2.789	5.5	20.9
3 2	9 4.77	+ 8 32.5	1.869	2.791	9.1	21.1
3 12	8 58.69	+ 9 45.1	1.940	2.792	12.6	21.3

358485 2007 RF_{38} 2 8.3 75°.20 2°.6/ 6.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.52	+18 24.1	1.515	2.326	17.1	20.9
1 12	9 49.81	+19 12.0	1.458	2.346	13.1	20.7
1 22	9 42.15	+20 9.1	1.421	2.367	8.5	20.5
2 1	9 32.39	+21 7.8	1.411	2.388	3.9	20.3
2 11	9 21.80	+21 59.8	1.428	2.409	3.4	20.3
2 21	9 11.81	+22 38.5	1.473	2.429	7.6	20.6
3 2	9 3.69	+23 0.7	1.543	2.449	11.8	20.9
3 12	8 58.30	+23 6.0	1.636	2.470	15.5	21.2

158223 2001 SS_{182} 2 8.3 87°.76 2°.6/ 6.9 18

1 2	9 57.27	+19 3.3	1.463	2.271	17.6	20.3
1 12	9 52.04	+19 38.7	1.403	2.291	13.5	20.1
1 22	9 43.68	+20 22.4	1.364	2.309	8.9	19.9
2 1	9 33.06	+21 7.1	1.351	2.328	4.1	19.7
2 11	9 21.56	+21 44.7	1.365	2.347	3.4	19.7
2 21	9 10.72	+22 9.3	1.407	2.365	7.8	20.0
3 2	9 1.90	+22 18.2	1.475	2.382	12.2	20.3
3 12	8 56.01	+22 11.6	1.565	2.400	16.0	20.5

6778 Tosamakoto 2 8.3 53°.84 0°.5/ 7.9 18

1 2	9 48.75	+14 3.8	1.960	2.754	14.3	17.3
1 12	9 44.89	+14 36.7	1.878	2.758	11.1	17.1
1 22	9 38.76	+15 20.7	1.819	2.761	7.3	16.8
2 1	9 30.93	+16 11.6	1.787	2.765	3.1	16.6
2 11	9 22.30	+17 3.5	1.784	2.769	1.5	16.5
2 21	9 13.91	+17 51.0	1.810	2.773	5.7	16.8
3 2	9 6.77	+18 29.4	1.863	2.777	9.6	17.0
3 12	9 1.64	+18 56.3	1.940	2.782	13.1	17.2

4520 Dovzhenko 2 8.3 126°.13 1°.7/ 7.1 18 R

1 2	9 55.60	+16 25.8	1.785	2.579	15.6	17.4
1 12	9 50.30	+17 16.5	1.716	2.596	12.0	17.2
1 22	9 42.36	+18 17.5	1.670	2.612	7.8	17.0
2 1	9 32.47	+19 22.5	1.650	2.628	3.4	16.7
2 11	9 21.76	+20 23.7	1.660	2.643	2.5	16.7
2 21	9 11.46	+21 14.8	1.700	2.657	6.7	17.0
3 2	9 2.74	+21 51.6	1.767	2.670	10.7	17.2
3 12	8 56.45	+22 12.9	1.857	2.683	14.2	17.5

34446 2000 SN_{74} 2 8.3 306°.86 0°.4/ 8.1 18

1 2	9 48.79	+11 49.9	1.498	2.303	17.5	18.1
1 12	9 45.74	+12 38.1	1.413	2.298	13.7	17.8
1 22	9 39.79	+13 45.1	1.349	2.293	9.1	17.6
2 1	9 31.53	+15 5.7	1.309	2.288	3.9	17.2
2 11	9 22.06	+16 31.4	1.297	2.283	1.7	17.1
2 21	9 12.75	+17 52.6	1.312	2.278	7.0	17.4
3 2	9 4.98	+19 1.3	1.353	2.273	12.0	17.7
3 12	8 59.83	+19 52.8	1.416	2.269	16.3	17.9

160765 2000 SK_{126} 2 8.3 95°.67 0°.5/ 8.7 18

1 2	9 52.39	+10 14.5	1.652	2.439	16.9	19.9
1 12	9 47.93	+10 54.6	1.585	2.458	13.1	19.7
1 22	9 40.84	+11 51.3	1.539	2.477	8.7	19.5
2 1	9 31.83	+12 59.6	1.519	2.495	3.9	19.3
2 11	9 22.00	+14 12.2	1.527	2.513	1.3	19.1
2 21	9 12.58	+15 21.5	1.564	2.530	6.0	19.5
3 2	9 4.75	+16 21.2	1.628	2.547	10.4	19.8
3 12	8 59.32	+17 7.5	1.716	2.564	14.2	20.0

162665 2000 SZ_{259} 2 8.3 41°.17 1°.8/ 9.4 18

1 2	9 50.94	+ 9 33.9	1.337	2.141	19.3	19.4
1 12	9 47.41	+ 9 34.3	1.270	2.151	15.2	19.1
1 22	9 40.81	+ 9 52.9	1.223	2.162	10.4	18.9
2 1	9 31.89	+10 26.7	1.198	2.173	5.1	18.6
2 11	9 21.97	+11 9.8	1.200	2.185	2.1	18.4
2 21	9 12.51	+11 55.0	1.227	2.197	6.8	18.8
3 2	9 4.91	+12 35.8	1.280	2.210	11.7	19.1
3 12	9 0.13	+13 7.3	1.355	2.223	16.0	19.4

263241 2008 AT_{102} 2 8.3 224°.60 0°.3/ 8.1 18

1 2	9 48.54	+11 44.9	2.014	2.800	14.3	20.7
1 12	9 44.79	+12 39.0	1.921	2.796	11.1	20.4
1 22	9 38.76	+13 48.0	1.851	2.791	7.4	20.2
2 1	9 30.97	+15 7.2	1.808	2.786	3.1	19.9
2 11	9 22.28	+16 30.2	1.795	2.780	1.3	19.8
2 21	9 13.67	+17 49.6	1.812	2.775	5.7	20.1
3 2	9 6.20	+18 59.4	1.856	2.769	9.8	20.3
3 12	9 0.70	+19 55.4	1.925	2.763	13.3	20.5

344560 2002 XK_{31} 2 8.3 41°.81 2°.5/ 9.5 18

1 2	9 53.36	+ 9 45.6	1.207	2.015	20.7	20.1
1 12	9 49.57	+ 9 24.1	1.143	2.025	16.4	19.8
1 22	9 42.38	+ 9 20.5	1.096	2.035	11.3	19.5
2 1	9 32.61	+ 9 32.8	1.072	2.046	5.8	19.3
2 11	9 21.72	+ 9 56.2	1.073	2.058	2.6	19.1
2 21	9 11.38	+10 24.2	1.100	2.069	7.3	19.4
3 2	9 3.16	+10 50.7	1.150	2.082	12.5	19.7
3 12	8 58.08	+11 10.8	1.222	2.095	17.1	20.0

69189 1263 T-1 2 8.3 44°.92 6°.4/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 59.98	+28 4.2	1.231	2.058	19.2	17.9
1 12	9 54.64	+28 38.7	1.185	2.079	15.0	17.7
1 22	9 45.54	+29 11.0	1.160	2.102	10.5	17.5
2 1	9 33.83	+29 30.8	1.158	2.125	6.9	17.4
2 11	9 21.34	+29 30.0	1.181	2.148	7.0	17.4
2 21	9 9.96	+29 5.5	1.230	2.172	10.5	17.7
3 2	9 1.23	+28 19.4	1.302	2.197	14.5	18.0
3 12	8 56.01	+27 16.8	1.394	2.221	18.0	18.3

424982 2009 BA_{153} 2 8.3 318°.19 1°.4/ 7.3 17

1 2	9 47.72	+17 2.0	2.034	2.835	13.6	20.9
1 12	9 44.18	+17 29.8	1.938	2.823	10.5	20.7
1 22	9 38.38	+18 6.1	1.865	2.810	6.9	20.4
2 1	9 30.81	+18 46.8	1.819	2.797	3.0	20.1
2 11	9 22.35	+19 26.5	1.802	2.785	2.1	20.0
2 21	9 14.00	+20 0.0	1.813	2.774	6.0	20.3
3 2	9 6.79	+20 23.5	1.852	2.762	9.9	20.5
3 12	9 1.56	+20 35.1	1.914	2.751	13.4	20.7

34925 6114 P–L 2 8.3 298°.67 4°.3/ 5.9 18

1 2	9 55.75	+25 42.1	1.792	2.600	14.9	18.0
1 12	9 50.85	+26 4.9	1.700	2.585	11.7	17.7
1 22	9 43.01	+26 28.9	1.630	2.571	8.1	17.5
2 1	9 32.88	+26 47.2	1.586	2.556	4.9	17.3
2 11	9 21.60	+26 53.2	1.570	2.542	5.0	17.2
2 21	9 10.56	+26 42.5	1.582	2.527	8.3	17.4
3 2	9 1.12	+26 14.1	1.621	2.513	12.2	17.6
3 12	8 54.32	+25 29.8	1.681	2.500	15.8	17.8

465181 2007 EB_{190} 2 8.3 5°.12 0°.1/ 8.4 18

1 2	9 49.75	+13 29.9	1.635	2.438	16.4	21.5
1 12	9 46.12	+13 39.5	1.555	2.438	12.8	21.2
1 22	9 39.80	+14 1.1	1.496	2.438	8.5	21.0
2 1	9 31.45	+14 31.3	1.461	2.439	3.7	20.7
2 11	9 22.14	+15 4.7	1.455	2.440	1.3	20.5
2 21	9 13.11	+15 35.5	1.475	2.442	6.2	20.9
3 2	9 5.58	+15 59.3	1.522	2.444	10.8	21.1
3 12	9 0.46	+16 13.1	1.592	2.447	14.7	21.4

287598 2003 FY_{131} 2 8.3 311°.94 1°.0/ 7.5 17

1 2	9 45.89	+12 36.3	1.653	2.460	16.0	20.6
1 12	9 43.37	+13 39.4	1.555	2.442	12.5	20.3
1 22	9 38.20	+15 1.4	1.480	2.425	8.3	20.0
2 1	9 30.87	+16 37.0	1.429	2.408	3.5	19.7
2 11	9 22.31	+18 17.4	1.407	2.392	2.1	19.6
2 21	9 13.75	+19 53.0	1.413	2.376	7.0	19.8
3 2	9 6.47	+21 15.2	1.444	2.360	11.8	20.1
3 12	9 1.53	+22 18.7	1.499	2.345	16.0	20.3

425098 2009 SY_{89} 2 8.3 59°.92 0°.6/ 7.9 18

1 2	9 54.39	+15 53.7	1.706	2.503	16.0	21.1
1 12	9 49.27	+16 1.6	1.646	2.527	12.3	20.9
1 22	9 41.58	+16 18.1	1.608	2.551	8.0	20.7
2 1	9 32.09	+16 38.9	1.597	2.575	3.4	20.5
2 11	9 21.96	+16 58.9	1.614	2.599	1.6	20.4
2 21	9 12.41	+17 13.7	1.660	2.624	6.1	20.8
3 2	9 4.53	+17 20.5	1.732	2.648	10.2	21.1
3 12	8 59.05	+17 18.2	1.828	2.672	13.6	21.3

258302 2001 UY_{122} 2 8.3 116°.57 0°.6/ 8.8 18

1 2	9 52.36	+11 4.7	2.289	3.058	13.3	21.5
1 12	9 47.15	+11 28.5	2.216	3.079	10.3	21.3
1 22	9 39.97	+12 3.1	2.166	3.100	6.9	21.1
2 1	9 31.37	+12 45.0	2.145	3.120	3.1	20.9
2 11	9 22.21	+13 30.0	2.154	3.139	1.0	20.8
2 21	9 13.35	+14 13.6	2.193	3.158	4.7	21.1
3 2	9 5.66	+14 51.8	2.262	3.176	8.2	21.4
3 12	8 59.77	+15 22.1	2.356	3.193	11.2	21.6

345178 2005 TS_{74} 2 8.3 45°.94 0°.7/ 8.7 18

1 2	9 54.86	+13 18.1	1.231	2.044	20.1	20.0
1 12	9 50.70	+13 7.0	1.167	2.054	15.7	19.8
1 22	9 43.11	+13 9.9	1.121	2.065	10.5	19.5
2 1	9 32.92	+13 23.3	1.099	2.076	4.7	19.2
2 11	9 21.64	+13 41.4	1.102	2.087	1.6	19.0
2 21	9 10.96	+13 58.1	1.130	2.099	7.3	19.4
3 2	9 2.44	+14 8.9	1.184	2.111	12.6	19.7
3 12	8 57.11	+14 10.9	1.258	2.124	17.1	20.0

502354 2015 BY_{207} 2 8.3 76°.59 3°.6/ 5.2 18

1 2	9 50.00	+20 6.6	1.861	2.669	14.4	20.2
1 12	9 46.00	+21 35.7	1.797	2.686	11.0	20.0
1 22	9 39.55	+23 12.8	1.758	2.702	7.3	19.8
2 1	9 31.29	+24 49.8	1.746	2.719	4.1	19.7
2 11	9 22.23	+26 17.4	1.763	2.735	4.4	19.7
2 21	9 13.50	+27 28.7	1.809	2.751	7.7	19.9
3 2	9 6.19	+28 19.7	1.882	2.768	11.2	20.2
3 12	9 1.11	+28 49.8	1.977	2.784	14.2	20.4

459279 2012 FH_{78} 2 8.3 347°.99 7°.7/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 55.27	+31 37.2	1.482	2.306	16.7	20.7
1 12	9 51.09	+32 29.8	1.411	2.300	13.4	20.4
1 22	9 43.43	+33 19.2	1.362	2.296	10.1	20.2
2 1	9 33.10	+33 55.0	1.336	2.292	7.9	20.1
2 11	9 21.57	+34 7.7	1.336	2.288	8.5	20.1
2 21	9 10.57	+33 52.8	1.361	2.286	11.4	20.3
3 2	9 1.70	+33 10.6	1.409	2.284	14.9	20.5
3 12	8 56.03	+32 6.1	1.477	2.282	18.2	20.7

59769 1999 NG_{15} 2 8.3 220°.29 0°.3/ 8.6 18

1 2	9 53.22	+12 25.4	1.937	2.719	14.9	20.4
1 12	9 48.51	+12 41.7	1.840	2.711	11.7	20.2
1 22	9 41.29	+13 10.0	1.766	2.703	7.9	20.0
2 1	9 32.11	+13 47.1	1.718	2.694	3.5	19.7
2 11	9 21.91	+14 28.0	1.699	2.685	1.2	19.5
2 21	9 11.81	+15 7.4	1.710	2.675	5.8	19.8
3 2	9 2.97	+15 40.6	1.748	2.664	10.1	20.0
3 12	8 56.30	+16 4.6	1.811	2.653	13.8	20.2

262665 2006 WK_{109} 2 8.3 121°.17 5°.8/ 3.2 18

1 2	9 56.10	+29 53.1	2.230	3.027	12.7	21.3
1 12	9 50.40	+31 18.3	2.173	3.048	10.0	21.2
1 22	9 42.28	+32 42.0	2.141	3.068	7.4	21.0
2 1	9 32.42	+33 55.8	2.137	3.087	5.8	21.0
2 11	9 21.84	+34 52.8	2.163	3.106	6.5	21.0
2 21	9 11.65	+35 28.5	2.218	3.124	8.6	21.2
3 2	9 2.91	+35 42.2	2.299	3.141	11.2	21.4
3 12	8 56.39	+35 35.9	2.402	3.157	13.5	21.6

168500 1999 RJ_{249} 2 8.3 234°.04 2°.7/ 6.4 18

1 2	9 54.23	+20 3.6	2.011	2.807	14.0	20.7
1 12	9 49.36	+20 48.7	1.913	2.794	10.8	20.4
1 22	9 41.91	+21 41.3	1.838	2.780	7.2	20.2
2 1	9 32.40	+22 35.5	1.790	2.766	3.6	19.9
2 11	9 21.80	+23 24.5	1.772	2.750	3.4	19.9
2 21	9 11.26	+24 2.3	1.784	2.734	7.1	20.1
3 2	9 1.99	+24 25.2	1.822	2.718	11.0	20.3
3 12	8 54.95	+24 32.2	1.885	2.700	14.5	20.4

392491 2011 KQ_{30} 2 8.3 240°.03 2°.9/ 6.6 18

1 2	9 55.75	+19 20.0	1.633	2.437	16.3	21.8
1 12	9 51.14	+20 3.9	1.539	2.425	12.7	21.5
1 22	9 43.42	+20 57.8	1.467	2.411	8.4	21.2
2 1	9 33.16	+21 54.8	1.421	2.397	4.1	20.9
2 11	9 21.51	+22 46.4	1.403	2.383	3.7	20.9
2 21	9 9.95	+23 25.3	1.413	2.367	8.1	21.1
3 2	8 59.98	+23 46.8	1.449	2.351	12.7	21.3
3 12	8 52.77	+23 50.1	1.507	2.335	16.8	21.5

253977 2004 ES_{25} 2 8.3 25°.88 3°.0/10.1 18

1 2	9 49.60	+ 7 4.1	1.514	2.302	18.1	20.3
1 12	9 46.12	+ 6 53.6	1.437	2.307	14.5	20.1
1 22	9 39.87	+ 7 1.2	1.380	2.312	10.2	19.9
2 1	9 31.50	+ 7 25.5	1.347	2.317	5.6	19.6
2 11	9 22.16	+ 8 2.4	1.341	2.323	3.0	19.5
2 21	9 13.12	+ 8 45.9	1.361	2.329	6.4	19.7
3 2	9 5.66	+ 9 29.7	1.407	2.336	10.9	20.0
3 12	9 0.72	+10 8.3	1.475	2.343	14.9	20.2

474051 2016 GU_{246} 2 8.3 302°.59 5°.4/12.0 17

1 2	9 47.39	+ 0 12.9	1.852	2.602	16.7	20.8
1 12	9 44.12	− 0 10.9	1.751	2.588	13.9	20.6
1 22	9 38.48	− 0 15.3	1.669	2.574	10.7	20.3
2 1	9 30.93	+ 0 1.3	1.611	2.561	7.4	20.1
2 11	9 22.35	+ 0 37.3	1.579	2.547	5.4	20.0
2 21	9 13.78	+ 1 29.0	1.574	2.534	6.8	20.0
3 2	9 6.34	+ 2 30.1	1.596	2.521	10.2	20.2
3 12	9 0.95	+ 3 33.6	1.643	2.509	13.8	20.4

306160 2010 LO_{60} 2 8.3 253°.20 3°.0/10.1 18

1 2	9 53.07	+ 6 43.0	1.807	2.574	16.4	21.1
1 12	9 48.67	+ 6 29.7	1.701	2.558	13.3	20.9
1 22	9 41.59	+ 6 31.8	1.615	2.541	9.5	20.6
2 1	9 32.32	+ 6 48.9	1.556	2.523	5.4	20.3
2 11	9 21.83	+ 7 18.1	1.524	2.505	3.1	20.1
2 21	9 11.30	+ 7 54.9	1.520	2.486	6.2	20.3
3 2	9 2.00	+ 8 34.1	1.544	2.467	10.6	20.5
3 12	8 54.99	+ 9 10.4	1.592	2.448	14.7	20.7

148837 2001 UK_{210} 2 8.3 56°.42 1°.1/ 8.8 18

1 2	10 0.41	+14 47.8	1.730	2.512	16.4	19.8
1 12	9 54.05	+14 0.6	1.649	2.519	12.9	19.6
1 22	9 44.86	+13 19.3	1.590	2.526	8.7	19.3
2 1	9 33.59	+12 42.4	1.558	2.533	4.0	19.0
2 11	9 21.45	+12 8.1	1.555	2.541	1.6	18.9
2 21	9 9.79	+11 34.8	1.583	2.548	6.1	19.2
3 2	8 59.86	+11 1.5	1.638	2.556	10.5	19.5
3 12	8 52.55	+10 27.5	1.718	2.564	14.3	19.7

283518 2001 TD_{31} 2 8.3 155°.98 3°.6/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.02	+ 1 35.6	2.788	3.514	12.2	20.6
1 12	9 43.60	+ 1 21.4	2.694	3.519	10.0	20.4
1 22	9 37.57	+ 1 20.0	2.622	3.523	7.5	20.3
2 1	9 30.37	+ 1 31.3	2.578	3.528	5.0	20.1
2 11	9 22.62	+ 1 53.6	2.563	3.532	3.6	20.0
2 21	9 15.00	+ 2 24.3	2.578	3.536	4.7	20.1
3 2	9 8.19	+ 3 0.1	2.623	3.539	7.1	20.3
3 12	9 2.77	+ 3 37.0	2.694	3.542	9.6	20.4

298732 2004 FB_{148} 2 8.3 269°.06 0°.5/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.20	+16 45.4	2.510	3.290	12.0	20.6
1 12	9 47.17	+16 44.1	2.401	3.273	9.3	20.4
1 22	9 40.13	+16 48.0	2.317	3.256	6.2	20.2
2 1	9 31.55	+16 54.3	2.262	3.239	2.6	19.9
2 11	9 22.17	+16 59.9	2.236	3.221	1.3	19.8
2 21	9 12.88	+17 1.8	2.242	3.204	4.9	20.0
3 2	9 4.54	+16 58.1	2.276	3.186	8.4	20.2
3 12	8 57.91	+16 47.5	2.337	3.168	11.5	20.4

76676 2000 HH_{62} 2 8.3 26°.26 0°.8/ 7.7 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.65	+15 29.3	2.126	2.920	13.4	20.0
1 12	9 44.67	+15 55.7	2.041	2.921	10.3	19.8
1 22	9 38.56	+16 30.9	1.980	2.923	6.8	19.6
2 1	9 30.87	+17 11.0	1.946	2.924	2.9	19.4
2 11	9 22.44	+17 50.9	1.941	2.926	1.6	19.3
2 21	9 14.21	+18 26.2	1.966	2.928	5.4	19.5
3 2	9 7.14	+18 53.0	2.018	2.930	9.1	19.8
3 12	9 1.95	+19 9.4	2.094	2.932	12.4	20.0

295862 2008 WB_{1} 2 8.3 206°.10 4°.9/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.52	+24 12.4	1.717	2.526	15.4	21.0
1 12	9 50.78	+25 19.1	1.636	2.523	12.0	20.8
1 22	9 43.03	+26 31.3	1.578	2.519	8.3	20.6
2 1	9 32.94	+27 40.2	1.546	2.515	5.2	20.4
2 11	9 21.67	+28 36.6	1.542	2.510	5.7	20.4
2 21	9 10.64	+29 13.6	1.567	2.504	9.1	20.6
3 2	9 1.27	+29 28.2	1.616	2.498	12.9	20.8
3 12	8 54.60	+29 21.4	1.688	2.492	16.3	21.0

433060 2012 TM_{17} 2 8.3 110°.59 1°.7/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.91	+ 7 33.8	2.406	3.170	12.9	21.6
1 12	9 43.03	+ 7 49.6	2.317	3.174	10.2	21.4
1 22	9 37.34	+ 8 18.1	2.251	3.179	7.1	21.2
2 1	9 30.31	+ 8 57.3	2.212	3.183	3.7	21.0
2 11	9 22.65	+ 9 43.5	2.203	3.187	1.7	20.8
2 21	9 15.15	+10 32.6	2.224	3.190	4.5	21.0
3 2	9 8.60	+11 20.2	2.273	3.194	7.8	21.3
3 12	9 3.63	+12 2.6	2.349	3.198	10.8	21.5

470398 2007 UN_{20} 2 8.3 63°.02 8°.0/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.75	−10 36.5	2.235	2.906	16.2	20.9
1 12	9 43.74	−11 18.6	2.161	2.927	14.1	20.8
1 22	9 37.82	−11 38.3	2.107	2.947	11.8	20.7
2 1	9 30.51	−11 33.4	2.075	2.968	9.6	20.6
2 11	9 22.60	−11 4.1	2.068	2.989	8.2	20.5
2 21	9 14.95	−10 13.8	2.088	3.010	8.2	20.6
3 2	9 8.37	− 9 7.7	2.135	3.030	9.6	20.7
3 12	9 3.51	− 7 52.8	2.206	3.051	11.6	20.8

194150 2001 TF_{4} 2 8.3 156°.85 3°.1/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.63	+ 4 21.5	1.832	2.590	16.5	21.1
1 12	9 48.02	+ 4 31.2	1.747	2.597	13.3	20.9
1 22	9 40.93	+ 4 59.8	1.683	2.603	9.5	20.6
2 1	9 31.95	+ 5 45.7	1.644	2.609	5.5	20.4
2 11	9 22.06	+ 6 44.6	1.634	2.614	3.1	20.3
2 21	9 12.40	+ 7 50.5	1.652	2.618	5.8	20.4
3 2	9 4.08	+ 8 56.5	1.699	2.622	9.8	20.7
3 12	8 57.96	+ 9 56.9	1.771	2.625	13.5	20.9

49318 1998 VE_{25} 2 8.3 109°.87 1°.5/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.63	+16 38.4	1.959	2.750	14.4	20.1
1 12	9 48.54	+17 19.2	1.890	2.769	11.1	19.9
1 22	9 41.10	+18 8.6	1.845	2.787	7.2	19.7
2 1	9 31.95	+19 1.2	1.827	2.805	3.1	19.5
2 11	9 22.09	+19 50.8	1.839	2.822	2.2	19.4
2 21	9 12.63	+20 32.0	1.880	2.839	6.1	19.7
3 2	9 4.58	+21 1.4	1.950	2.855	9.8	20.0
3 12	8 58.70	+21 17.8	2.043	2.870	13.1	20.2

287369 2002 UN_{72} 2 8.4 82°.64 1°.2/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.69	+ 9 44.1	1.774	2.553	16.2	21.9
1 12	9 48.65	+ 9 59.2	1.712	2.579	12.7	21.7
1 22	9 41.16	+10 28.6	1.671	2.605	8.5	21.5
2 1	9 31.96	+11 8.7	1.657	2.631	4.1	21.3
2 11	9 22.11	+11 54.2	1.671	2.656	1.5	21.1
2 21	9 12.74	+12 39.5	1.714	2.681	5.5	21.5
3 2	9 4.91	+13 19.7	1.785	2.705	9.6	21.7
3 12	8 59.35	+13 51.4	1.880	2.730	13.1	22.0

437162 2012 VJ_{41} 2 8.4 353°.35 6°.3/14.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 45.61	− 6 7.6	2.353	3.053	14.8	21.6
1 12	9 42.14	− 6 31.2	2.258	3.052	12.7	21.4
1 22	9 36.83	− 6 35.4	2.182	3.052	10.3	21.3
2 1	9 30.13	− 6 18.5	2.131	3.051	7.9	21.1
2 11	9 22.74	− 5 41.5	2.106	3.051	6.4	21.0
2 21	9 15.46	− 4 47.4	2.109	3.050	6.8	21.1
3 2	9 9.08	− 3 41.3	2.139	3.050	8.8	21.2
3 12	9 4.29	− 2 29.4	2.195	3.050	11.2	21.3

408970 2002 PV_{114} 2 8.4 103°.47 2°.1/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.12	+ 4 38.4	1.873	2.636	16.1	22.7
1 12	9 45.94	+ 5 22.8	1.798	2.653	12.8	22.5
1 22	9 39.46	+ 6 27.3	1.745	2.670	8.9	22.3
2 1	9 31.28	+ 7 48.4	1.718	2.687	4.7	22.1
2 11	9 22.36	+ 9 19.7	1.720	2.703	2.2	22.0
2 21	9 13.73	+10 53.4	1.751	2.719	5.3	22.2
3 2	9 6.40	+12 22.0	1.812	2.734	9.3	22.5
3 12	9 1.15	+13 39.7	1.897	2.750	12.8	22.7

229779 2008 ON_{20} 2 8.4 23°.16 0°.8/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.14	+11 45.0	1.955	2.740	14.7	20.9
1 12	9 45.99	+11 51.6	1.869	2.741	11.5	20.7
1 22	9 39.53	+12 9.6	1.805	2.742	7.7	20.4
2 1	9 31.34	+12 36.4	1.767	2.742	3.6	20.2
2 11	9 22.33	+13 7.7	1.757	2.743	1.2	20.0
2 21	9 13.53	+13 38.9	1.777	2.744	5.4	20.3
3 2	9 5.97	+14 5.8	1.824	2.745	9.4	20.5
3 12	9 0.46	+14 25.5	1.896	2.746	13.0	20.7

133456 2003 SY_{227} 2 8.4 172°.09 0°.5/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.41	+11 33.6	2.159	2.930	13.9	21.7
1 12	9 48.29	+11 53.9	2.069	2.935	10.9	21.5
1 22	9 40.94	+12 25.6	2.003	2.938	7.3	21.3
2 1	9 31.93	+13 5.5	1.965	2.941	3.3	21.0
2 11	9 22.12	+13 49.0	1.957	2.942	1.1	20.9
2 21	9 12.51	+14 31.3	1.979	2.944	5.1	21.2
3 2	9 4.07	+15 8.1	2.030	2.944	9.0	21.4
3 12	8 57.58	+15 36.7	2.106	2.944	12.3	21.6

47935 2000 HR_{11} 2 8.4 31°.61 8°.6/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.65	− 5 18.9	1.461	2.202	20.7	17.7
1 12	9 44.67	− 6 9.7	1.390	2.213	17.7	17.5
1 22	9 38.95	− 6 32.7	1.337	2.224	14.3	17.3
2 1	9 31.16	− 6 24.6	1.305	2.235	10.9	17.1
2 11	9 22.40	− 5 46.2	1.296	2.248	8.8	17.0
2 21	9 13.97	− 4 42.6	1.312	2.261	9.3	17.1
3 2	9 7.12	− 3 22.4	1.353	2.275	11.9	17.3
3 12	9 2.75	− 1 56.2	1.416	2.289	15.1	17.5

106925 2000 YS_{58} 2 8.4 338°.24 2°.3/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.58	+ 9 40.2	1.540	2.330	17.8	19.7
1 12	9 48.51	+ 9 21.1	1.455	2.328	14.2	19.5
1 22	9 41.55	+ 9 16.5	1.391	2.326	9.8	19.2
2 1	9 32.32	+ 9 24.9	1.351	2.324	5.1	18.9
2 11	9 21.97	+ 9 42.7	1.338	2.322	2.4	18.7
2 21	9 11.87	+10 5.1	1.352	2.321	6.5	19.0
3 2	9 3.37	+10 27.2	1.392	2.319	11.2	19.2
3 12	8 57.48	+10 44.7	1.455	2.318	15.4	19.5

406848 2009 BM_{24} 2 8.4 5°.32 3°.0/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.60	+ 8 45.9	1.346	2.145	19.4	20.6
1 12	9 48.08	+ 8 16.8	1.268	2.145	15.5	20.3
1 22	9 41.42	+ 8 4.3	1.210	2.145	10.9	20.1
2 1	9 32.29	+ 8 7.5	1.174	2.146	5.9	19.8
2 11	9 21.98	+ 8 23.1	1.164	2.147	3.1	19.6
2 21	9 11.99	+ 8 46.0	1.180	2.150	7.0	19.8
3 2	9 3.81	+ 9 10.4	1.221	2.152	12.0	20.1
3 12	8 58.50	+ 9 31.1	1.283	2.156	16.5	20.4

1266 Tone 2 8.4 242°.90 0°.3/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.25	+16 9.4	2.679	3.456	11.4	14.9
1 12	9 46.20	+16 4.3	2.582	3.452	8.8	14.8
1 22	9 39.36	+16 4.0	2.511	3.449	5.8	14.6
2 1	9 31.19	+16 6.3	2.467	3.444	2.5	14.3
2 11	9 22.41	+16 8.4	2.455	3.440	1.0	14.2
2 21	9 13.80	+16 8.0	2.473	3.436	4.4	14.4
3 2	9 6.13	+16 3.2	2.521	3.432	7.6	14.6
3 12	9 0.04	+15 52.9	2.596	3.428	10.5	14.8

125671 2001 XP_{78} 2 8.4 35°.37 1°.8/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.13	+ 8 37.4	1.367	2.167	19.1	20.2
1 12	9 46.87	+ 8 49.2	1.293	2.172	15.1	20.0
1 22	9 40.57	+ 9 21.1	1.239	2.177	10.4	19.7
2 1	9 31.91	+10 10.0	1.207	2.182	5.2	19.4
2 11	9 22.13	+11 9.4	1.202	2.187	2.0	19.2
2 21	9 12.70	+12 11.3	1.223	2.193	6.8	19.5
3 2	9 5.02	+13 7.9	1.269	2.199	11.8	19.8
3 12	9 0.11	+13 53.5	1.338	2.205	16.2	20.1

28142 1998 *TU* 2 8.4 37°.44 5°.2/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.49	+23 26.5	1.224	2.056	19.0	18.6
1 12	9 50.72	+24 18.4	1.165	2.064	14.7	18.3
1 22	9 43.30	+25 16.2	1.125	2.072	10.0	18.1
2 1	9 33.10	+26 9.6	1.108	2.081	5.9	17.9
2 11	9 21.73	+26 48.0	1.117	2.090	6.0	17.9
2 21	9 11.03	+27 4.5	1.150	2.100	10.1	18.2
3 2	9 2.64	+26 57.3	1.207	2.110	14.7	18.5
3 12	8 57.63	+26 28.9	1.283	2.121	18.6	18.7

460019 2014 OG_{139} 2 8.4 127°.63 0°.2/ 8.5 18

1 2	9 53.07	+11 42.4	1.958	2.737	14.9	22.2
1 12	9 48.14	+12 14.8	1.882	2.752	11.6	22.0
1 22	9 40.88	+12 59.8	1.829	2.766	7.7	21.8
2 1	9 31.90	+13 53.5	1.804	2.780	3.4	21.5
2 11	9 22.16	+14 49.9	1.807	2.793	1.1	21.4
2 21	9 12.75	+15 43.3	1.841	2.806	5.5	21.7
3 2	9 4.67	+16 28.9	1.903	2.817	9.5	22.0
3 12	8 58.71	+17 3.8	1.989	2.829	12.9	22.2

327423 2005 WH_{21} 2 8.4 123°.83 3°.8/ 5.4 18

1 2	9 52.45	+23 24.6	2.010	2.814	13.6	21.5
1 12	9 47.80	+24 19.8	1.936	2.821	10.5	21.4
1 22	9 40.73	+25 19.0	1.886	2.828	7.1	21.2
2 1	9 31.86	+26 15.3	1.864	2.834	4.2	21.0
2 11	9 22.18	+27 1.8	1.871	2.841	4.5	21.0
2 21	9 12.81	+27 33.5	1.906	2.847	7.5	21.2
3 2	9 4.82	+27 48.0	1.968	2.853	10.8	21.4
3 12	8 59.04	+27 45.7	2.053	2.858	13.8	21.6

95872 2003 GB_{36} 2 8.4 245°.24 5°.8/ 3.1 18

1 2	9 51.32	+27 28.2	2.035	2.845	13.3	20.0
1 12	9 47.25	+29 0.8	1.952	2.837	10.5	19.8
1 22	9 40.60	+30 37.0	1.893	2.828	7.6	19.6
2 1	9 31.91	+32 8.0	1.861	2.819	5.8	19.5
2 11	9 22.13	+33 24.6	1.859	2.809	6.7	19.5
2 21	9 12.46	+34 20.4	1.884	2.799	9.3	19.6
3 2	9 4.08	+34 52.2	1.935	2.789	12.4	19.8
3 12	8 57.98	+35 0.6	2.007	2.779	15.2	20.0

91476 1999 RA_{97} 2 8.4 89°.99 2°.7/10.6 18

1 2	9 48.95	+ 4 50.3	2.057	2.816	14.9	20.1
1 12	9 44.85	+ 5 0.0	1.978	2.829	12.0	20.0
1 22	9 38.65	+ 5 26.0	1.922	2.843	8.5	19.8
2 1	9 30.93	+ 6 6.5	1.891	2.856	4.9	19.6
2 11	9 22.53	+ 6 57.7	1.889	2.870	2.8	19.5
2 21	9 14.39	+ 7 54.3	1.916	2.883	5.1	19.6
3 2	9 7.42	+ 8 51.1	1.972	2.896	8.6	19.9
3 12	9 2.32	+ 9 43.0	2.053	2.908	11.9	20.1

36282 2000 CT_{98} 2 8.4 182°.15 0°.0/ 8.3 18

1 2	9 56.98	+13 30.8	2.039	2.813	14.5	19.9
1 12	9 51.21	+13 44.2	1.947	2.815	11.4	19.7
1 22	9 42.97	+14 7.6	1.879	2.815	7.6	19.5
2 1	9 32.86	+14 37.4	1.839	2.815	3.3	19.2
2 11	9 21.83	+15 9.1	1.828	2.814	1.2	19.0
2 21	9 11.01	+15 38.0	1.848	2.812	5.6	19.3
3 2	9 1.50	+16 0.3	1.897	2.809	9.7	19.6
3 12	8 54.18	+16 13.9	1.971	2.804	13.2	19.8

95052 2002 AS_{45} 2 8.4 121°.72 0°.3/ 8.1 18

1 2	9 53.94	+12 41.2	1.767	2.555	15.9	20.8
1 12	9 49.06	+13 21.0	1.695	2.570	12.3	20.6
1 22	9 41.61	+14 14.2	1.645	2.585	8.1	20.4
2 1	9 32.25	+15 15.8	1.622	2.599	3.5	20.2
2 11	9 22.06	+16 18.9	1.628	2.613	1.4	20.0
2 21	9 12.25	+17 16.7	1.663	2.626	6.1	20.4
3 2	9 3.94	+18 4.1	1.725	2.639	10.3	20.7
3 12	8 57.98	+18 38.3	1.812	2.651	13.9	20.9

375966 2009 WZ_{205} 2 8.4 179°.21 0°.2/ 8.5 18

1 2	9 50.90	+12 55.3	2.146	2.927	13.7	21.6
1 12	9 46.39	+13 8.1	2.056	2.928	10.7	21.4
1 22	9 39.71	+13 30.9	1.991	2.928	7.1	21.2
2 1	9 31.42	+14 0.6	1.952	2.928	3.1	20.9
2 11	9 22.35	+14 33.0	1.942	2.928	1.1	20.7
2 21	9 13.48	+15 3.9	1.963	2.928	5.1	21.0
3 2	9 5.75	+15 29.4	2.011	2.927	8.9	21.3
3 12	8 59.93	+15 47.2	2.085	2.927	12.3	21.5

383802 2007 YQ_{30} 2 8.4 179°.29 2°.0/10.0 17

1 2	9 48.58	+ 7 38.9	2.554	3.312	12.4	21.4
1 12	9 44.23	+ 7 33.5	2.460	3.312	9.9	21.2
1 22	9 38.11	+ 7 38.8	2.388	3.312	6.9	21.0
2 1	9 30.68	+ 7 53.6	2.345	3.312	3.8	20.8
2 11	9 22.63	+ 8 15.5	2.331	3.312	2.0	20.7
2 21	9 14.71	+ 8 41.4	2.347	3.312	4.4	20.8
3 2	9 7.71	+ 9 8.0	2.392	3.312	7.5	21.0
3 12	9 2.22	+ 9 32.2	2.464	3.312	10.4	21.2

12398 Pickhardt 2 8.4 260°.51 0°.7/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.25	+14 9.0	1.478	2.282	17.7	19.4
1 12	9 49.45	+14 37.0	1.385	2.269	13.9	19.1
1 22	9 42.46	+15 20.1	1.312	2.256	9.3	18.8
2 1	9 32.85	+16 13.8	1.264	2.242	4.0	18.4
2 11	9 21.79	+17 10.2	1.243	2.228	1.9	18.2
2 21	9 10.78	+18 1.4	1.249	2.214	7.5	18.5
3 2	9 1.38	+18 40.9	1.280	2.199	12.7	18.8
3 12	8 54.84	+19 5.1	1.334	2.184	17.3	19.0

491068 2011 QV_{88} 2 8.4 235°.52 2°.6/ 6.7 17

1 2	9 56.65	+19 44.1	1.788	2.586	15.4	22.5
1 12	9 51.59	+20 18.9	1.691	2.573	12.0	22.2
1 22	9 43.60	+21 1.6	1.616	2.559	8.0	21.9
2 1	9 33.26	+21 46.1	1.568	2.544	3.9	21.7
2 11	9 21.66	+22 25.3	1.549	2.529	3.4	21.6
2 21	9 10.14	+22 52.8	1.559	2.513	7.5	21.8
3 2	9 0.10	+23 5.1	1.596	2.497	11.9	22.0
3 12	8 52.62	+23 1.5	1.655	2.479	15.8	22.2

416051 2002 GX_{56} 2 8.4 326°.87 9°.1/13.4 16

1 2	9 44.18	− 4 16.3	1.512	2.262	19.8	20.5
1 12	9 42.34	− 5 19.4	1.405	2.234	17.2	20.2
1 22	9 37.76	− 5 59.7	1.316	2.206	14.1	19.9
2 1	9 30.84	− 6 11.8	1.247	2.179	11.1	19.7
2 11	9 22.49	− 5 53.2	1.201	2.153	9.2	19.5
2 21	9 13.96	− 5 5.4	1.179	2.129	10.0	19.4
3 2	9 6.64	− 3 54.8	1.181	2.105	13.0	19.5
3 12	9 1.77	− 2 31.1	1.203	2.083	16.8	19.7

402881 2007 RV_{268} 2 8.4 225°.64 0°.0/ 8.2 17

1 2	9 52.55	+12 5.3	1.996	2.776	14.6	22.2
1 12	9 48.03	+12 41.1	1.894	2.765	11.5	22.0
1 22	9 41.04	+13 30.7	1.815	2.753	7.7	21.7
2 1	9 32.10	+14 30.2	1.763	2.740	3.4	21.4
2 11	9 22.09	+15 33.8	1.741	2.727	1.2	21.3
2 21	9 12.10	+16 35.1	1.748	2.712	5.8	21.5
3 2	9 3.28	+17 28.4	1.784	2.697	10.1	21.8
3 12	8 56.54	+18 10.1	1.845	2.682	13.8	22.0

37660 1994 PG_{22} 2 8.4 250°.94 2°.7/ 6.6 18

1 2	9 54.56	+22 10.3	2.133	2.928	13.3	18.8
1 12	9 49.38	+22 28.2	2.039	2.919	10.3	18.6
1 22	9 41.78	+22 49.2	1.969	2.910	6.9	18.4
2 1	9 32.35	+23 8.5	1.926	2.901	3.5	18.2
2 11	9 22.03	+23 20.9	1.913	2.891	3.2	18.1
2 21	9 11.91	+23 22.8	1.930	2.881	6.5	18.3
3 2	9 3.07	+23 12.4	1.974	2.871	10.1	18.5
3 12	8 56.37	+22 49.9	2.043	2.861	13.4	18.7

120753 1997 WW_{28} 2 8.4 225°.00 2°.1/ 6.9 18

1 2	9 53.35	+17 19.3	1.791	2.591	15.3	21.2
1 12	9 48.93	+18 5.9	1.700	2.583	11.9	20.9
1 22	9 41.78	+19 3.4	1.631	2.575	7.8	20.7
2 1	9 32.45	+20 5.9	1.588	2.566	3.5	20.4
2 11	9 21.98	+21 5.8	1.575	2.556	2.9	20.3
2 21	9 11.64	+21 56.0	1.590	2.547	7.1	20.6
3 2	9 2.69	+22 31.8	1.632	2.536	11.4	20.8
3 12	8 56.15	+22 51.3	1.697	2.525	15.2	21.0

312156 2007 UN_{14} 2 8.4 89°.58 2°.2/ 6.8 18

1 2	9 52.25	+16 51.8	1.608	2.415	16.4	20.8
1 12	9 48.09	+17 49.0	1.540	2.427	12.6	20.6
1 22	9 41.14	+18 57.7	1.494	2.439	8.2	20.4
2 1	9 32.11	+20 10.8	1.474	2.451	3.7	20.1
2 11	9 22.15	+21 19.6	1.482	2.463	3.1	20.1
2 21	9 12.58	+22 16.6	1.518	2.475	7.3	20.4
3 2	9 4.67	+22 57.1	1.580	2.487	11.6	20.7
3 12	8 59.30	+23 19.6	1.665	2.498	15.2	20.9

465259 2007 SS_{22} 2 8.4 124°.80 6°.3/ 3.2 18

1 2	9 56.28	+34 47.9	2.440	3.232	11.9	21.4
1 12	9 50.44	+35 38.9	2.374	3.240	9.6	21.3
1 22	9 42.29	+36 24.6	2.333	3.249	7.5	21.1
2 1	9 32.49	+36 58.1	2.319	3.257	6.3	21.1
2 11	9 22.03	+37 14.1	2.334	3.265	6.8	21.1
2 21	9 11.99	+37 10.0	2.377	3.273	8.6	21.2
3 2	9 3.38	+36 45.9	2.446	3.280	10.9	21.4
3 12	8 56.91	+36 4.8	2.538	3.287	13.0	21.6

344042 2012 PY_{8} 2 8.4 208°.13 2°.1/10.2 17

1 2	9 50.10	+ 6 54.3	2.712	3.460	12.0	22.0
1 12	9 45.34	+ 6 49.2	2.608	3.454	9.6	21.8
1 22	9 38.83	+ 6 54.7	2.528	3.448	6.8	21.6
2 1	9 31.01	+ 7 9.7	2.475	3.441	3.8	21.4
2 11	9 22.53	+ 7 32.1	2.453	3.433	2.2	21.3
2 21	9 14.13	+ 7 58.9	2.461	3.425	4.3	21.4
3 2	9 6.56	+ 8 27.0	2.499	3.417	7.3	21.6
3 12	9 0.46	+ 8 53.1	2.565	3.408	10.2	21.8

36703 2000 RO_{23} 2 8.4 85°.77 1°.6/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.18	+ 9 32.7	1.917	2.695	15.2	19.2
1 12	9 46.73	+ 9 34.8	1.840	2.706	12.0	19.0
1 22	9 39.98	+ 9 50.1	1.784	2.717	8.2	18.8
2 1	9 31.55	+10 16.0	1.755	2.728	4.1	18.6
2 11	9 22.37	+10 48.7	1.754	2.739	1.7	18.4
2 21	9 13.49	+11 23.3	1.782	2.749	5.3	18.7
3 2	9 5.93	+11 55.5	1.838	2.760	9.2	18.9
3 12	9 0.44	+12 21.7	1.918	2.771	12.7	19.2

330468 2007 EH_{195} 2 8.4 65°.16 1°.6/ 9.6 18

1 2	9 48.92	+ 8 8.1	1.803	2.584	15.9	20.9
1 12	9 45.17	+ 8 29.2	1.726	2.594	12.6	20.7
1 22	9 39.05	+ 9 6.7	1.671	2.604	8.6	20.5
2 1	9 31.17	+ 9 57.6	1.641	2.614	4.3	20.2
2 11	9 22.50	+10 56.6	1.640	2.625	1.7	20.1
2 21	9 14.12	+11 57.3	1.667	2.635	5.5	20.4
3 2	9 7.06	+12 53.8	1.721	2.646	9.6	20.6
3 12	9 2.13	+13 41.4	1.800	2.656	13.2	20.9

16864 1998 AL 2 8.4 51°.51 1°.4/ 7.5 18

1 2	9 50.97	+14 1.1	1.288	2.107	19.1	17.7
1 12	9 47.55	+14 57.6	1.232	2.125	14.7	17.5
1 22	9 40.98	+16 10.7	1.196	2.144	9.5	17.3
2 1	9 32.07	+17 32.3	1.184	2.163	4.0	17.0
2 11	9 22.20	+18 52.2	1.199	2.183	2.5	17.0
2 21	9 12.93	+20 0.8	1.239	2.203	7.7	17.3
3 2	9 5.63	+20 52.0	1.305	2.223	12.5	17.7
3 12	9 1.24	+21 23.3	1.391	2.244	16.6	18.0

331769 2003 BQ_{35} 2 8.4 111°.75 0°.3/ 8.2 17

1 2	10 8.88	+ 6 18.6	0.712	1.532	30.1	21.2
1 12	10 3.28	+ 8 7.5	0.671	1.563	23.4	20.9
1 22	9 52.29	+10 38.9	0.646	1.591	15.5	20.6
2 1	9 37.15	+13 37.9	0.640	1.618	6.6	20.3
2 11	9 20.43	+16 38.3	0.658	1.643	2.5	20.1
2 21	9 5.17	+19 14.6	0.699	1.666	10.9	20.7
3 2	8 53.88	+21 12.1	0.762	1.687	18.0	21.2
3 12	8 47.79	+22 28.9	0.842	1.706	23.6	21.6

502608 2015 CW_{16} 2 8.4 299°.38 1°.1/ 7.6 17

1 2	9 51.76	+17 44.5	2.135	2.927	13.4	21.1
1 12	9 47.13	+17 51.7	2.043	2.922	10.4	20.8
1 22	9 40.25	+18 4.8	1.976	2.918	6.8	20.6
2 1	9 31.69	+18 20.2	1.935	2.913	3.0	20.4
2 11	9 22.32	+18 33.8	1.924	2.908	1.8	20.3
2 21	9 13.16	+18 41.9	1.942	2.903	5.6	20.5
3 2	9 5.20	+18 42.0	1.988	2.899	9.4	20.7
3 12	8 59.22	+18 33.3	2.059	2.894	12.7	20.9

4931 Tomsk 2 8.4 35°.36 4°.8/12.8 18 R

1 2	9 45.21	− 5 22.7	1.247	2.008	22.7	15.7
1 12	9 43.06	− 3 54.8	1.188	2.032	18.7	15.5
1 22	9 37.99	− 1 44.9	1.146	2.058	13.8	15.3
2 1	9 30.78	+ 1 2.6	1.128	2.085	8.6	15.0
2 11	9 22.67	+ 4 14.8	1.135	2.113	4.9	14.9
2 21	9 15.08	+ 7 33.6	1.171	2.142	6.8	15.1
3 2	9 9.28	+10 40.8	1.235	2.171	11.4	15.4
3 12	9 6.15	+13 23.2	1.323	2.201	15.7	15.8

92934 2000 RV_{29} 2 8.4 340°.87 0°.9/ 8.9 18

1 2	9 52.52	+13 18.0	1.664	2.460	16.4	18.5
1 12	9 48.30	+12 58.6	1.576	2.455	12.9	18.3
1 22	9 41.33	+12 49.0	1.510	2.450	8.7	18.0
2 1	9 32.24	+12 47.1	1.469	2.445	4.0	17.7
2 11	9 22.12	+12 49.3	1.456	2.441	1.4	17.5
2 21	9 12.24	+12 51.8	1.470	2.438	6.1	17.8
3 2	9 3.87	+12 51.5	1.511	2.435	10.7	18.1
3 12	8 57.96	+12 46.0	1.575	2.432	14.7	18.3

291972 2006 QU_{77} 2 8.4 99°.19 0°.6/ 8.9 18

1 2	9 47.85	+10 38.4	2.582	3.351	11.9	21.4
1 12	9 43.58	+11 6.8	2.505	3.369	9.3	21.2
1 22	9 37.62	+11 45.4	2.452	3.386	6.2	21.1
2 1	9 30.46	+12 31.1	2.428	3.403	2.8	20.9
2 11	9 22.79	+13 20.1	2.433	3.419	0.9	20.7
2 21	9 15.35	+14 8.1	2.470	3.435	4.2	21.0
3 2	9 8.84	+14 51.6	2.536	3.451	7.3	21.2
3 12	9 3.83	+15 27.7	2.628	3.467	10.1	21.4

459555 2013 GT_{74} 2 8.4 235°.20 0°.5/ 8.0 17

1 2	9 52.99	+14 25.0	1.949	2.737	14.6	22.3
1 12	9 48.42	+14 49.8	1.850	2.726	11.4	22.0
1 22	9 41.33	+15 25.6	1.773	2.714	7.6	21.8
2 1	9 32.25	+16 8.6	1.724	2.701	3.3	21.5
2 11	9 22.11	+16 53.1	1.703	2.688	1.5	21.3
2 21	9 12.03	+17 33.5	1.712	2.675	6.0	21.6
3 2	9 3.19	+18 5.3	1.748	2.661	10.3	21.8
3 12	8 56.52	+18 25.9	1.809	2.646	14.0	22.0

245100 2004 PY_{38} 2 8.4 248°.09 1°.6/ 7.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.23	+18 51.8	2.144	2.934	13.4	20.6
1 12	9 49.15	+19 4.8	2.044	2.921	10.4	20.3
1 22	9 41.67	+19 23.3	1.967	2.908	6.9	20.1
2 1	9 32.35	+19 43.2	1.918	2.895	3.1	19.8
2 11	9 22.09	+19 59.8	1.899	2.882	2.2	19.7
2 21	9 11.96	+20 9.2	1.910	2.868	6.0	20.0
3 2	9 3.02	+20 9.0	1.948	2.854	9.8	20.2
3 12	8 56.15	+19 58.2	2.012	2.839	13.2	20.4

422985 2003 RG_{25} 2 8.4 103°.02 4°.1/11.7 18

1 2	9 50.94	+ 1 29.4	2.324	3.056	14.2	21.4
1 12	9 46.09	+ 1 7.8	2.245	3.073	11.6	21.2
1 22	9 39.34	+ 1 1.4	2.188	3.091	8.7	21.0
2 1	9 31.23	+ 1 9.9	2.158	3.108	5.8	20.9
2 11	9 22.53	+ 1 31.6	2.156	3.124	4.1	20.8
2 21	9 14.09	+ 2 3.1	2.183	3.141	5.4	20.9
3 2	9 6.71	+ 2 40.3	2.239	3.157	8.1	21.1
3 12	9 1.05	+ 3 18.8	2.322	3.172	10.9	21.3

299427 2005 YN_{271} 2 8.4 342°.21 3°.7/10.1 18

1 2	9 49.13	+ 7 32.2	1.231	2.038	20.4	20.9
1 12	9 46.57	+ 7 2.7	1.150	2.030	16.5	20.6
1 22	9 40.69	+ 6 52.4	1.087	2.023	11.8	20.3
2 1	9 32.12	+ 7 1.5	1.046	2.016	6.7	20.0
2 11	9 22.15	+ 7 26.6	1.029	2.011	3.7	19.8
2 21	9 12.38	+ 8 1.8	1.036	2.006	7.6	20.0
3 2	9 4.44	+ 8 39.9	1.067	2.003	12.8	20.3
3 12	8 59.55	+ 9 13.9	1.119	2.000	17.6	20.6

376483 2012 JX_{62} 2 8.4 283°.86 2°.1/ 6.9 17

1 2	9 50.07	+17 47.2	1.838	2.642	14.7	21.7
1 12	9 46.34	+18 30.3	1.746	2.632	11.4	21.4
1 22	9 40.04	+19 23.5	1.676	2.621	7.5	21.2
2 1	9 31.71	+20 21.1	1.633	2.610	3.4	20.9
2 11	9 22.33	+21 16.2	1.618	2.600	2.9	20.8
2 21	9 13.06	+22 2.1	1.632	2.589	6.9	21.0
3 2	9 5.10	+22 34.4	1.672	2.579	11.1	21.3
3 12	8 59.40	+22 51.1	1.735	2.568	14.7	21.5

200010 2007 LO_{7} 2 8.4 229°.17 3°.2/11.1 17

1 2	9 48.52	+ 3 24.4	2.375	3.119	13.6	21.2
1 12	9 44.44	+ 3 25.7	2.270	3.110	11.0	21.0
1 22	9 38.42	+ 3 42.1	2.188	3.101	8.1	20.8
2 1	9 30.91	+ 4 12.9	2.133	3.092	5.0	20.6
2 11	9 22.63	+ 4 55.5	2.106	3.083	3.2	20.5
2 21	9 14.40	+ 5 46.1	2.109	3.073	5.0	20.6
3 2	9 7.08	+ 6 39.9	2.141	3.062	8.2	20.8
3 12	9 1.37	+ 7 32.0	2.199	3.052	11.3	20.9

119469 2001 UE_{11} 2 8.4 147°.43 3°.9/ 5.1 18

1 2	9 52.33	+23 21.3	2.144	2.945	13.0	20.4
1 12	9 47.63	+24 28.7	2.069	2.952	10.0	20.2
1 22	9 40.61	+25 40.4	2.019	2.959	6.8	20.0
2 1	9 31.87	+26 49.5	1.996	2.965	4.2	19.8
2 11	9 22.32	+27 48.8	2.004	2.971	4.5	19.9
2 21	9 13.03	+28 33.2	2.040	2.977	7.4	20.1
3 2	9 5.01	+28 59.8	2.104	2.982	10.5	20.3
3 12	8 59.06	+29 8.8	2.191	2.987	13.4	20.5

49641 1999 JX_{25} 2 8.4 18°.96 7°.6/ 2.1 18

1 2	9 52.68	+35 3.1	2.014	2.823	13.5	18.2
1 12	9 48.30	+36 17.3	1.951	2.826	11.0	18.0
1 22	9 41.23	+37 26.4	1.911	2.829	8.7	17.9
2 1	9 32.16	+38 21.6	1.897	2.832	7.6	17.8
2 11	9 22.22	+38 55.5	1.910	2.836	8.4	17.8
2 21	9 12.68	+39 4.4	1.949	2.841	10.4	18.0
3 2	9 4.74	+38 48.2	2.012	2.845	12.9	18.1
3 12	8 59.25	+38 10.1	2.096	2.850	15.2	18.3

435862 2008 XW_{43} 2 8.4 340°.20 0°.4/ 7.9 16

1 2	9 44.52	+ 8 0.9	1.898	2.683	15.1	20.3
1 12	9 41.95	+ 9 48.0	1.799	2.674	11.8	20.0
1 22	9 37.11	+11 59.1	1.725	2.665	7.8	19.8
2 1	9 30.45	+14 28.2	1.679	2.656	3.3	19.5
2 11	9 22.79	+17 5.0	1.664	2.649	1.5	19.3
2 21	9 15.12	+19 38.0	1.679	2.642	6.2	19.6
3 2	9 8.52	+21 56.6	1.724	2.635	10.5	19.9
3 12	9 3.89	+23 53.7	1.795	2.630	14.2	20.1

347014 2010 DT_{55} 2 8.4 252°.94 5°.5/13.8 17

1 2	9 45.51	− 5 8.9	2.547	3.247	13.8	21.2
1 12	9 41.99	− 5 17.5	2.443	3.241	11.7	21.0
1 22	9 36.73	− 5 7.5	2.361	3.235	9.4	20.8
2 1	9 30.16	− 4 38.3	2.302	3.229	7.0	20.7
2 11	9 22.92	− 3 50.9	2.272	3.223	5.6	20.6
2 21	9 15.74	− 2 48.7	2.270	3.216	6.0	20.6
3 2	9 9.37	− 1 36.6	2.296	3.210	8.1	20.7
3 12	9 4.45	− 0 20.5	2.349	3.204	10.6	20.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
209448 2004 FO_{137}			2 8.4 235°.75	5°.4/ 2.3 17		
	h m	° ′			°	m
1 2	9 49.28	+29 46.7	2.557	3.360	11.1	20.2
1 12	9 45.19	+31 17.5	2.475	3.354	8.8	20.0
1 22	9 39.00	+32 49.1	2.419	3.347	6.6	19.8
2 1	9 31.19	+34 14.4	2.392	3.340	5.4	19.8
2 11	9 22.55	+35 26.4	2.395	3.333	6.2	19.8
2 21	9 13.98	+36 20.1	2.426	3.326	8.2	19.9
3 2	9 6.42	+36 53.3	2.483	3.319	10.6	20.1
3 12	9 0.65	+37 6.3	2.563	3.312	12.9	20.2
1432 Ethiopia			2 8.4 142°.25	1°.1/ 7.5 18		
1 2	9 53.37	+14 31.9	2.022	2.806	14.3	16.6
1 12	9 48.41	+15 26.8	1.944	2.819	11.0	16.4
1 22	9 41.12	+16 32.9	1.891	2.831	7.2	16.2
2 1	9 32.09	+17 44.9	1.865	2.842	3.1	15.9
2 11	9 22.26	+18 55.9	1.869	2.853	1.9	15.9
2 21	9 12.70	+19 59.4	1.904	2.863	5.9	16.1
3 2	9 4.44	+20 50.7	1.967	2.872	9.7	16.4
3 12	8 58.27	+21 27.7	2.054	2.880	13.0	16.6
454228 2013 JJ_{38}			2 8.4 290°.89	3°.8/ 5.4 18		
1 2	9 49.52	+19 5.6	1.628	2.444	15.8	21.1
1 12	9 46.27	+20 33.5	1.546	2.439	12.2	20.8
1 22	9 40.19	+22 14.4	1.487	2.434	8.1	20.6
2 1	9 31.85	+23 59.3	1.455	2.429	4.4	20.3
2 11	9 22.31	+25 37.6	1.450	2.424	4.7	20.3
2 21	9 12.92	+26 59.5	1.473	2.420	8.6	20.6
3 2	9 5.02	+27 59.0	1.521	2.415	12.8	20.8
3 12	8 59.67	+28 34.5	1.591	2.411	16.5	21.0
228268 1999 TR_{219}			2 8.4 69°.33	0°.9/ 7.8 18		
1 2	9 53.82	+16 36.3	1.891	2.685	14.8	20.1
1 12	9 48.70	+16 50.2	1.828	2.707	11.4	19.9
1 22	9 41.21	+17 11.7	1.787	2.729	7.4	19.7
2 1	9 32.07	+17 36.3	1.773	2.751	3.2	19.5
2 11	9 22.30	+17 59.2	1.789	2.773	1.7	19.4
2 21	9 13.02	+18 16.2	1.833	2.795	5.8	19.7
3 2	9 5.22	+18 24.8	1.905	2.817	9.6	20.0
3 12	8 59.64	+18 23.8	2.001	2.839	12.9	20.2
104237 2000 EU_{132}			2 8.4 209°.51	4°.8/ 5.2 18		
1 2	9 57.59	+27 26.7	2.045	2.843	13.7	20.2
1 12	9 51.91	+28 5.2	1.960	2.839	10.7	20.0
1 22	9 43.56	+28 43.8	1.899	2.834	7.6	19.8
2 1	9 33.19	+29 15.5	1.865	2.829	5.1	19.6
2 11	9 21.89	+29 33.7	1.861	2.824	5.4	19.6
2 21	9 10.89	+29 34.5	1.885	2.818	8.1	19.8
3 2	9 1.39	+29 16.9	1.936	2.812	11.4	20.0
3 12	8 54.29	+28 42.7	2.011	2.806	14.4	20.2
464978 2005 YN_{203}			2 8.4 72°.13	0°.2/ 8.2 18		
1 2	9 50.09	+13 31.9	1.905	2.697	14.8	21.9
1 12	9 46.03	+13 56.4	1.825	2.703	11.5	21.7
1 22	9 39.61	+14 32.1	1.768	2.709	7.6	21.4
2 1	9 31.46	+15 15.1	1.738	2.715	3.3	21.2
2 11	9 22.51	+16 0.0	1.736	2.722	1.3	21.1
2 21	9 13.82	+16 41.3	1.763	2.728	5.6	21.4
3 2	9 6.44	+17 14.7	1.818	2.734	9.7	21.6
3 12	9 1.15	+17 37.6	1.896	2.741	13.2	21.8
306033 2010 EV_{125}			2 8.4 224°.87	5°.4/ 4.1 18		
1 2	9 55.17	+25 18.0	1.893	2.699	14.3	21.2
1 12	9 50.47	+26 44.2	1.804	2.688	11.2	20.9
1 22	9 42.91	+28 16.5	1.739	2.677	7.9	20.7
2 1	9 33.04	+29 45.6	1.701	2.665	5.5	20.5
2 11	9 21.91	+31 1.7	1.693	2.652	6.2	20.5
2 21	9 10.84	+31 57.4	1.712	2.639	9.3	20.7
3 2	9 1.19	+32 28.9	1.758	2.624	12.8	20.9
3 12	8 54.04	+32 36.8	1.825	2.609	16.1	21.1
213592 2002 OP_{23}			2 8.4 211°.47	1°.1/ 9.1 18		
1 2	9 52.42	+10 48.6	1.846	2.628	15.6	20.7
1 12	9 47.99	+10 54.6	1.756	2.625	12.3	20.5
1 22	9 41.03	+11 13.7	1.687	2.622	8.4	20.2
2 1	9 32.13	+11 43.2	1.644	2.618	4.0	19.9
2 11	9 22.25	+12 18.7	1.629	2.614	1.4	19.7
2 21	9 12.55	+12 55.1	1.643	2.610	5.7	20.0
3 2	9 4.16	+13 27.6	1.685	2.606	10.0	20.3
3 12	8 57.99	+13 52.6	1.751	2.601	13.8	20.5
90364 2003 JS_{7}			2 8.4 240°.43	4°.3/11.9 18		
1 2	9 47.52	+ 0 19.2	2.034	2.776	15.6	19.6
1 12	9 43.98	+ 0 24.7	1.937	2.772	12.9	19.4
1 22	9 38.27	+ 0 50.3	1.862	2.769	9.7	19.2
2 1	9 30.91	+ 1 35.8	1.811	2.765	6.4	19.0
2 11	9 22.69	+ 2 38.3	1.788	2.761	4.3	18.9
2 21	9 14.56	+ 3 52.4	1.794	2.757	5.8	18.9
3 2	9 7.50	+ 5 11.5	1.827	2.752	9.1	19.1
3 12	9 2.30	+ 6 28.7	1.886	2.748	12.5	19.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
60707 2000 GP_{56}			2 8.4 0°.62	0°.5/ 8.8 18		
	h m	° ′			°	m
1 2	9 47.95	+11 35.6	2.065	2.850	14.0	19.4
1 12	9 44.24	+11 54.6	1.977	2.850	10.9	19.2
1 22	9 38.39	+12 25.4	1.912	2.850	7.3	19.0
2 1	9 30.93	+13 5.0	1.874	2.850	3.3	18.8
2 11	9 22.70	+13 48.9	1.864	2.850	1.1	18.6
2 21	9 14.64	+14 32.1	1.884	2.850	5.1	18.9
3 2	9 7.71	+15 10.1	1.931	2.851	9.0	19.1
3 12	9 2.66	+15 39.8	2.003	2.851	12.4	19.3
114229 2002 VB_{118}			2 8.4 139°.63	0°.1/ 8.5 18		
1 2	10 5.22	+16 53.9	2.039	2.805	14.8	19.0
1 12	9 57.38	+16 15.9	1.951	2.813	11.6	18.8
1 22	9 46.93	+15 41.2	1.887	2.821	7.7	18.6
2 1	9 34.58	+15 7.6	1.853	2.829	3.4	18.3
2 11	9 21.44	+14 32.8	1.850	2.836	1.2	18.2
2 21	9 8.77	+13 55.8	1.880	2.843	5.6	18.5
3 2	8 57.73	+13 16.3	1.940	2.849	9.6	18.7
3 12	8 49.13	+12 34.4	2.026	2.855	13.1	19.0
310913 2003 SF_{82}			2 8.4 168°.96	2°.3/10.2 18		
1 2	9 51.20	+ 5 44.3	1.965	2.726	15.4	21.6
1 12	9 46.84	+ 6 5.6	1.876	2.730	12.4	21.4
1 22	9 40.17	+ 6 44.3	1.809	2.733	8.7	21.2
2 1	9 31.73	+ 7 38.3	1.768	2.736	4.7	20.9
2 11	9 22.42	+ 8 43.0	1.755	2.738	2.3	20.8
2 21	9 13.28	+ 9 52.1	1.772	2.739	5.4	21.0
3 2	9 5.35	+10 59.5	1.818	2.740	9.3	21.2
3 12	8 59.44	+11 59.6	1.889	2.741	12.9	21.4
200353 2000 KR_{39}			2 8.4 135°.69	3°.4/ 5.9 18		
1 2	9 54.79	+19 59.0	1.729	2.533	15.5	21.2
1 12	9 49.99	+21 7.3	1.658	2.544	11.9	20.9
1 22	9 42.41	+22 24.1	1.610	2.554	7.9	20.7
2 1	9 32.72	+23 41.4	1.589	2.563	4.1	20.5
2 11	9 22.08	+24 50.4	1.597	2.573	4.2	20.5
2 21	9 11.80	+25 43.9	1.633	2.581	7.9	20.8
3 2	9 3.12	+26 18.2	1.696	2.589	11.8	21.0
3 12	8 56.98	+26 33.0	1.781	2.596	15.2	21.3
37071 2000 UY_{51}			2 8.4 224°.63	2°.4/10.4 18		
1 2	9 50.12	+ 5 56.5	2.422	3.173	13.2	19.7
1 12	9 45.65	+ 5 58.4	2.316	3.163	10.6	19.5
1 22	9 39.23	+ 6 13.4	2.233	3.152	7.6	19.3
2 1	9 31.30	+ 6 40.4	2.176	3.141	4.3	19.1
2 11	9 22.58	+ 7 16.6	2.149	3.130	2.4	18.9
2 21	9 13.90	+ 7 58.5	2.153	3.118	4.8	19.0
3 2	9 6.12	+ 8 41.6	2.185	3.105	8.1	19.2
3 12	8 59.97	+ 9 22.1	2.244	3.092	11.3	19.4
293291 2007 DT_{11}			2 8.4 9°.61	4°.9/12.1 18		
1 2	9 40.57	+ 0 7.0	1.203	1.999	21.4	19.7
1 12	9 39.77	+ 0 28.1	1.133	2.002	17.6	19.5
1 22	9 36.06	+ 1 22.7	1.082	2.007	13.0	19.2
2 1	9 30.08	+ 2 49.7	1.051	2.014	8.2	19.0
2 11	9 23.02	+ 4 42.0	1.043	2.022	4.9	18.8
2 21	9 16.28	+ 6 47.6	1.061	2.032	7.2	19.0
3 2	9 11.21	+ 8 52.6	1.102	2.044	11.8	19.3
3 12	9 8.83	+10 44.9	1.166	2.057	16.3	19.6
359156 2009 BA_{130}			2 8.4 347°.09	3°.6/ 6.5 18		
1 2	9 53.71	+21 38.9	1.399	2.221	17.6	21.2
1 12	9 49.88	+22 8.8	1.323	2.218	13.7	20.9
1 22	9 42.72	+22 45.2	1.268	2.215	9.1	20.7
2 1	9 32.97	+23 20.8	1.237	2.212	4.7	20.4
2 11	9 21.99	+23 47.1	1.232	2.210	4.4	20.4
2 21	9 11.40	+23 57.9	1.253	2.209	8.7	20.6
3 2	9 2.75	+23 50.7	1.298	2.207	13.4	20.9
3 12	8 57.14	+23 26.2	1.365	2.207	17.5	21.1
135289 2001 SD_{156}			2 8.4 241°.99	0°.8/ 8.9 18		
1 2	9 50.12	+12 10.3	2.316	3.092	13.0	19.8
1 12	9 45.65	+12 8.2	2.225	3.092	10.1	19.6
1 22	9 39.19	+12 14.9	2.157	3.092	6.8	19.4
2 1	9 31.25	+12 28.4	2.117	3.091	3.2	19.2
2 11	9 22.62	+12 45.4	2.106	3.091	1.1	19.0
2 21	9 14.18	+13 2.7	2.125	3.091	4.7	19.3
3 2	9 6.78	+13 17.2	2.173	3.091	8.3	19.5
3 12	9 1.12	+13 26.6	2.246	3.091	11.4	19.7
221703 2007 DT_{96}			2 8.4 168°.12	2°.0/ 9.9 18		
1 2	9 49.10	+ 7 15.6	1.985	2.756	15.0	20.8
1 12	9 45.21	+ 7 27.5	1.896	2.756	11.9	20.6
1 22	9 39.08	+ 7 54.8	1.829	2.757	8.3	20.4
2 1	9 31.26	+ 8 35.5	1.787	2.757	4.4	20.2
2 11	9 22.61	+ 9 25.5	1.774	2.758	2.1	20.0
2 21	9 14.13	+10 19.3	1.791	2.758	5.2	20.2
3 2	9 6.80	+11 11.6	1.835	2.758	9.2	20.4
3 12	9 1.44	+11 57.7	1.904	2.759	12.7	20.7

287440 2002 XY_{24} 2 8.4 54°.61 7°.0/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.51	+31 51.8	1.976	2.788	13.5	20.2
1 12	9 47.29	+33 32.4	1.928	2.809	10.8	20.0
1 22	9 40.50	+35 9.7	1.906	2.831	8.3	19.9
2 1	9 31.85	+36 34.3	1.910	2.852	7.1	19.9
2 11	9 22.44	+37 38.2	1.942	2.874	7.9	20.0
2 21	9 13.47	+38 16.9	2.000	2.896	10.0	20.2
3 2	9 6.05	+38 29.9	2.083	2.917	12.4	20.4
3 12	9 0.98	+38 19.9	2.186	2.939	14.7	20.6

332375 2007 ER_{200} 2 8.4 11°.85 0°.3/ 8.2 18

1 2	9 46.86	+11 3.5	1.697	2.496	16.0	20.3
1 12	9 43.91	+12 2.5	1.616	2.497	12.5	20.1
1 22	9 38.45	+13 19.2	1.556	2.498	8.3	19.8
2 1	9 31.05	+14 48.5	1.522	2.500	3.5	19.5
2 11	9 22.70	+16 22.1	1.517	2.502	1.4	19.4
2 21	9 14.54	+17 51.3	1.539	2.505	6.3	19.7
3 2	9 7.71	+19 8.7	1.589	2.507	10.7	20.0
3 12	9 3.12	+20 9.5	1.662	2.510	14.5	20.2

62632 2000 SB_{356} 2 8.4 34°.94 4°.6/ 4.9 18

1 2	9 48.79	+21 36.4	1.515	2.341	16.3	18.3
1 12	9 45.69	+23 2.5	1.456	2.353	12.5	18.1
1 22	9 39.72	+24 36.7	1.420	2.367	8.4	17.9
2 1	9 31.59	+26 9.0	1.408	2.380	5.0	17.7
2 11	9 22.54	+27 29.1	1.424	2.395	5.5	17.8
2 21	9 13.91	+28 29.0	1.467	2.410	9.0	18.0
3 2	9 7.00	+29 5.0	1.534	2.425	12.9	18.3
3 12	9 2.71	+29 17.6	1.622	2.441	16.2	18.6

454379 2014 MD_{56} 2 8.4 270°.95 1°.2/ 7.6 17

1 2	9 51.42	+14 18.5	1.558	2.363	16.9	21.8
1 12	9 47.96	+15 2.5	1.461	2.347	13.3	21.5
1 22	9 41.49	+16 2.6	1.386	2.330	8.8	21.2
2 1	9 32.53	+17 13.8	1.335	2.313	3.8	20.9
2 11	9 22.15	+18 27.5	1.311	2.296	2.2	20.7
2 21	9 11.74	+19 35.1	1.315	2.278	7.4	21.0
3 2	9 2.80	+20 29.3	1.345	2.261	12.5	21.3
3 12	8 56.51	+21 6.1	1.397	2.243	16.9	21.5

309257 2007 RC_{58} 2 8.4 102°.70 0°.2/ 8.6 18

1 2	9 53.69	+11 29.6	1.766	2.551	16.1	21.3
1 12	9 48.84	+12 3.4	1.698	2.571	12.5	21.1
1 22	9 41.47	+12 51.2	1.653	2.590	8.3	20.9
2 1	9 32.28	+13 48.4	1.633	2.610	3.6	20.7
2 11	9 22.32	+14 48.4	1.643	2.628	1.2	20.5
2 21	9 12.77	+15 44.7	1.681	2.647	5.8	20.9
3 2	9 4.74	+16 32.2	1.748	2.665	10.0	21.2
3 12	8 59.02	+17 7.8	1.838	2.682	13.6	21.4

405523 2005 EG_{60} 2 8.4 0°.36 2°.7/ 9.7 18

1 2	9 47.71	+ 9 28.4	1.182	2.000	20.4	20.6
1 12	9 45.50	+ 9 5.8	1.108	1.996	16.3	20.3
1 22	9 39.98	+ 9 1.6	1.053	1.995	11.4	20.0
2 1	9 31.85	+ 9 14.7	1.020	1.994	5.9	19.7
2 11	9 22.43	+ 9 40.6	1.011	1.995	2.8	19.5
2 21	9 13.35	+10 12.6	1.026	1.997	7.3	19.8
3 2	9 6.19	+10 44.0	1.064	2.001	12.7	20.1
3 12	9 2.08	+11 8.9	1.122	2.005	17.5	20.4

35813 1999 JM_{47} 2 8.4 48°.32 8°.3/14.3 18

1 2	9 49.68	− 5 49.7	1.636	2.360	19.5	17.8
1 12	9 45.94	− 6 42.8	1.568	2.378	16.6	17.6
1 22	9 39.67	− 7 10.4	1.518	2.395	13.4	17.5
2 1	9 31.53	− 7 9.6	1.489	2.413	10.4	17.3
2 11	9 22.58	− 6 41.2	1.485	2.431	8.5	17.3
2 21	9 13.97	− 5 49.4	1.507	2.450	8.9	17.3
3 2	9 6.83	− 4 41.6	1.554	2.469	11.2	17.5
3 12	9 2.00	− 3 26.8	1.625	2.488	14.0	17.7

458365 2010 VU_{218} 2 8.4 52°.80 2°.0/ 9.6 18

1 2	9 51.41	+ 8 50.0	1.561	2.350	17.6	21.3
1 12	9 47.35	+ 8 49.4	1.495	2.367	13.9	21.1
1 22	9 40.62	+ 9 5.2	1.450	2.384	9.5	20.9
2 1	9 31.94	+ 9 34.7	1.429	2.402	4.8	20.7
2 11	9 22.45	+10 12.9	1.435	2.420	2.1	20.5
2 21	9 13.41	+10 53.9	1.469	2.438	6.0	20.8
3 2	9 5.99	+11 32.1	1.529	2.456	10.4	21.1
3 12	9 1.03	+12 3.1	1.612	2.474	14.2	21.4

288827 2004 RO_{187} 2 8.4 106°.86 4°.5/11.3 18

1 2	9 53.03	+ 2 37.5	1.643	2.402	18.1	20.6
1 12	9 48.56	+ 2 23.3	1.568	2.414	14.8	20.4
1 22	9 41.44	+ 2 29.5	1.512	2.427	10.8	20.2
2 1	9 32.32	+ 2 56.1	1.481	2.440	6.8	20.0
2 11	9 22.31	+ 3 39.4	1.476	2.452	4.5	19.9
2 21	9 12.63	+ 4 33.9	1.499	2.463	6.6	20.0
3 2	9 4.47	+ 5 32.5	1.550	2.475	10.4	20.3
3 12	8 58.72	+ 6 28.7	1.624	2.486	14.1	20.5

450158 2000 DW_{98} 2 8.4 45°.73 6°.8/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	10 6.25	+29 43.0	1.200	2.020	20.1	18.7
1 12	9 59.21	+30 13.9	1.170	2.058	15.6	18.6
1 22	9 48.36	+30 39.3	1.160	2.098	11.0	18.4
2 1	9 35.11	+30 48.7	1.174	2.137	7.4	18.3
2 11	9 21.46	+30 35.1	1.213	2.177	7.4	18.4
2 21	9 9.37	+29 57.6	1.278	2.217	10.6	18.7
3 2	9 0.25	+29 0.0	1.368	2.257	14.3	19.1
3 12	8 54.79	+27 48.6	1.478	2.297	17.5	19.4

504342 2007 TF_{226} 2 8.4 120°.84 4°.5/12.6 18

1 2	9 47.92	− 1 31.3	2.553	3.268	13.4	21.7
1 12	9 43.72	− 1 43.1	2.465	3.279	11.1	21.5
1 22	9 37.81	− 1 38.9	2.399	3.289	8.6	21.4
2 1	9 30.64	− 1 18.5	2.359	3.300	6.0	21.2
2 11	9 22.91	− 0 43.8	2.348	3.310	4.5	21.1
2 21	9 15.34	+ 0 2.1	2.366	3.319	5.3	21.2
3 2	9 8.67	+ 0 54.7	2.412	3.329	7.6	21.4
3 12	9 3.49	+ 1 49.1	2.486	3.338	10.2	21.5

223717 2004 RG_{92} 2 8.4 113°.23 2°.0/10.0 18

1 2	9 50.14	+ 7 6.4	2.144	2.907	14.3	21.2
1 12	9 45.74	+ 7 18.3	2.064	2.920	11.3	21.0
1 22	9 39.28	+ 7 44.3	2.006	2.932	7.9	20.8
2 1	9 31.31	+ 8 22.3	1.975	2.944	4.2	20.6
2 11	9 22.68	+ 9 8.3	1.972	2.955	2.0	20.5
2 21	9 14.28	+ 9 57.6	2.000	2.967	4.9	20.7
3 2	9 7.03	+10 45.3	2.056	2.978	8.4	20.9
3 12	9 1.60	+11 27.5	2.138	2.988	11.7	21.1

245052 2004 FO_{85} 2 8.4 167°.89 6°.4/ 2.3 18

1 2	9 53.39	+35 9.2	2.524	3.320	11.5	20.6
1 12	9 48.34	+36 12.4	2.454	3.321	9.3	20.5
1 22	9 41.04	+37 11.0	2.408	3.322	7.4	20.4
2 1	9 32.09	+37 58.1	2.390	3.323	6.4	20.3
2 11	9 22.41	+38 28.0	2.400	3.324	7.0	20.3
2 21	9 13.01	+38 37.5	2.437	3.325	8.8	20.4
3 2	9 4.89	+38 26.3	2.500	3.325	10.9	20.6
3 12	8 58.78	+37 56.6	2.586	3.326	13.0	20.7

204102 2003 WG_{106} 2 8.4 97°.66 1°.4/ 7.2 18

1 2	9 50.07	+17 19.6	2.199	2.993	13.0	20.8
1 12	9 45.72	+17 54.0	2.122	3.002	10.0	20.6
1 22	9 39.28	+18 35.8	2.068	3.010	6.5	20.4
2 1	9 31.32	+19 20.3	2.042	3.019	2.9	20.1
2 11	9 22.68	+20 2.4	2.045	3.028	2.1	20.1
2 21	9 14.30	+20 37.5	2.078	3.036	5.6	20.4
3 2	9 7.08	+21 2.4	2.139	3.045	9.0	20.6
3 12	9 1.73	+21 15.8	2.225	3.053	12.1	20.8

379082 2008 WF_{137} 2 8.4 239°.83 4°.4/ 4.3 17

1 2	9 50.10	+25 47.9	2.257	3.063	12.3	20.4
1 12	9 45.95	+26 54.8	2.175	3.059	9.6	20.2
1 22	9 39.58	+28 4.5	2.117	3.055	6.7	20.1
2 1	9 31.51	+29 10.3	2.087	3.051	4.6	19.9
2 11	9 22.60	+30 5.4	2.086	3.047	5.1	19.9
2 21	9 13.85	+30 44.7	2.114	3.043	7.7	20.1
3 2	9 6.27	+31 5.8	2.169	3.039	10.6	20.3
3 12	9 0.64	+31 8.8	2.246	3.034	13.3	20.4

256916 2008 EC_{2} 2 8.4 14°.49 1°.9/ 9.5 18

1 2	9 48.80	+ 9 26.4	1.396	2.199	18.6	21.0
1 12	9 45.82	+ 9 23.5	1.322	2.202	14.7	20.7
1 22	9 39.90	+ 9 38.0	1.268	2.206	10.1	20.5
2 1	9 31.74	+10 7.8	1.237	2.211	5.1	20.2
2 11	9 22.52	+10 47.4	1.232	2.216	2.1	20.0
2 21	9 13.65	+11 30.2	1.253	2.223	6.6	20.3
3 2	9 6.46	+12 9.9	1.298	2.230	11.4	20.6
3 12	9 1.93	+12 41.3	1.366	2.238	15.7	20.9

397829 2008 SV_{152} 2 8.4 71°.11 4°.3/ 6.3 18

1 2	9 59.70	+23 9.2	1.343	2.160	18.5	21.1
1 12	9 54.25	+23 45.9	1.290	2.181	14.2	20.9
1 22	9 45.36	+24 26.7	1.258	2.202	9.5	20.6
2 1	9 34.00	+25 2.6	1.250	2.223	5.2	20.5
2 11	9 21.78	+25 25.0	1.269	2.245	5.0	20.5
2 21	9 10.42	+25 29.0	1.315	2.266	9.0	20.8
3 2	9 1.38	+25 14.0	1.385	2.287	13.3	21.1
3 12	8 55.57	+24 42.5	1.476	2.307	17.0	21.4

209035 2003 NJ_{1} 2 8.4 120°.89 4°.1/ 5.1 18

1 2	9 57.50	+24 21.0	2.120	2.913	13.4	21.0
1 12	9 51.50	+25 30.1	2.059	2.937	10.3	20.9
1 22	9 43.09	+26 41.5	2.023	2.960	7.0	20.7
2 1	9 32.96	+27 48.0	2.015	2.982	4.5	20.6
2 11	9 22.13	+28 42.3	2.038	3.003	4.8	20.6
2 21	9 11.74	+29 19.8	2.090	3.023	7.5	20.8
3 2	9 2.82	+29 38.7	2.170	3.042	10.5	21.1
3 12	8 56.14	+29 40.1	2.273	3.060	13.2	21.3

429027 2009 BS_{165} 2 8.4 180°.32 2°.6/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.99	+22 50.5	2.519	3.312	11.6	21.6
1 12	9 47.00	+23 14.1	2.434	3.312	8.9	21.4
1 22	9 40.04	+23 39.8	2.373	3.313	6.0	21.2
2 1	9 31.64	+24 3.4	2.340	3.313	3.2	21.1
2 11	9 22.59	+24 20.7	2.337	3.312	3.1	21.1
2 21	9 13.77	+24 28.4	2.365	3.312	5.8	21.2
3 2	9 6.03	+24 25.0	2.421	3.312	8.8	21.4
3 12	9 0.04	+24 10.5	2.501	3.311	11.5	21.6

50154 2000 AK_{141} 2 8.4 40°.23 4°.1/10.8 18

1 2	9 50.23	+ 4 19.4	1.302	2.091	20.5	18.3
1 12	9 47.12	+ 4 12.9	1.229	2.096	16.6	18.0
1 22	9 40.89	+ 4 30.7	1.174	2.102	12.0	17.8
2 1	9 32.22	+ 5 11.9	1.142	2.108	7.0	17.5
2 11	9 22.37	+ 6 11.6	1.134	2.114	4.1	17.4
2 21	9 12.87	+ 7 21.6	1.152	2.121	7.2	17.6
3 2	9 5.16	+ 8 32.7	1.195	2.128	12.0	17.9
3 12	9 0.31	+ 9 36.8	1.259	2.135	16.4	18.1

186110 2001 TB_{82} 2 8.4 93°.90 5°.6/12.9 18

1 2	9 51.30	− 2 39.1	2.016	2.736	16.4	20.4
1 12	9 46.67	− 2 55.2	1.944	2.759	13.6	20.2
1 22	9 39.90	− 2 50.6	1.891	2.781	10.5	20.1
2 1	9 31.59	− 2 25.0	1.864	2.803	7.5	19.9
2 11	9 22.63	− 1 40.7	1.863	2.824	5.6	19.9
2 21	9 13.99	− 0 42.3	1.892	2.845	6.5	19.9
3 2	9 6.59	+ 0 23.9	1.948	2.865	9.1	20.1
3 12	9 1.14	+ 1 31.4	2.029	2.886	12.0	20.4

469200 2016 GH_{190} 2 8.4 139°.76 5°.6/13.6 17

1 2	9 46.67	− 4 24.4	2.345	3.054	14.6	21.2
1 12	9 43.01	− 4 36.0	2.251	3.055	12.4	21.0
1 22	9 37.49	− 4 28.3	2.178	3.057	9.8	20.9
2 1	9 30.57	− 4 0.5	2.128	3.059	7.3	20.7
2 11	9 22.97	− 3 14.0	2.107	3.061	5.7	20.6
2 21	9 15.49	− 2 12.7	2.113	3.062	6.2	20.6
3 2	9 8.93	− 1 1.8	2.148	3.064	8.4	20.8
3 12	9 3.97	+ 0 12.5	2.209	3.066	11.1	20.9

453797 2011 QW_{87} 2 8.4 242°.10 3°.1/ 6.7 18

1 2	9 57.05	+21 12.8	1.566	2.375	16.7	21.5
1 12	9 52.20	+21 37.8	1.482	2.369	13.0	21.3
1 22	9 44.18	+22 8.9	1.420	2.364	8.7	21.0
2 1	9 33.65	+22 39.5	1.383	2.358	4.4	20.8
2 11	9 21.88	+23 1.9	1.373	2.352	3.9	20.7
2 21	9 10.42	+23 10.7	1.391	2.346	8.1	20.9
3 2	9 0.75	+23 3.3	1.435	2.340	12.6	21.2
3 12	8 53.97	+22 40.3	1.500	2.334	16.6	21.4

500411 2012 TN_{114} 2 8.4 107°.82 1°.7/ 7.0 17

1 2	9 51.04	+19 37.7	2.462	3.252	11.9	21.9
1 12	9 46.23	+19 58.6	2.382	3.260	9.1	21.8
1 22	9 39.51	+20 23.6	2.326	3.268	6.0	21.6
2 1	9 31.40	+20 49.1	2.299	3.276	2.8	21.4
2 11	9 22.70	+21 10.8	2.302	3.283	2.2	21.3
2 21	9 14.26	+21 25.4	2.335	3.291	5.3	21.6
3 2	9 6.90	+21 30.9	2.397	3.298	8.4	21.8
3 12	9 1.25	+21 26.7	2.484	3.305	11.2	22.0

422394 2014 SV_{278} 2 8.4 85°.98 0°.1/ 8.5 18

1 2	9 55.03	+13 17.4	1.881	2.664	15.3	21.4
1 12	9 49.63	+13 31.6	1.818	2.690	11.8	21.3
1 22	9 41.86	+13 56.1	1.778	2.715	7.8	21.1
2 1	9 32.43	+14 27.2	1.764	2.741	3.4	20.9
2 11	9 22.38	+14 59.7	1.780	2.765	1.1	20.7
2 21	9 12.81	+15 29.0	1.825	2.790	5.5	21.1
3 2	9 4.74	+15 51.6	1.898	2.814	9.4	21.4
3 12	8 58.89	+16 5.4	1.996	2.837	12.7	21.6

147854 2005 UF_{250} 2 8.4 155°.61 1°.0/ 9.1 18

1 2	9 54.68	+11 43.0	2.300	3.066	13.3	20.5
1 12	9 49.11	+11 37.2	2.212	3.073	10.5	20.3
1 22	9 41.46	+11 40.3	2.148	3.080	7.1	20.1
2 1	9 32.28	+11 50.3	2.112	3.086	3.4	19.9
2 11	9 22.40	+12 3.9	2.106	3.091	1.2	19.7
2 21	9 12.77	+12 18.1	2.131	3.096	4.8	20.0
3 2	9 4.28	+12 30.0	2.185	3.101	8.4	20.2
3 12	8 57.65	+12 37.2	2.266	3.105	11.5	20.4

144591 2004 FV_{41} 2 8.4 229°.92 2°.0/ 6.8 18

1 2	9 51.47	+17 26.9	1.987	2.783	14.1	20.4
1 12	9 47.26	+18 16.6	1.894	2.775	10.9	20.2
1 22	9 40.60	+19 16.3	1.824	2.767	7.2	19.9
2 1	9 32.03	+20 20.3	1.782	2.759	3.3	19.7
2 11	9 22.46	+21 21.9	1.769	2.750	2.7	19.6
2 21	9 13.00	+22 14.6	1.785	2.740	6.6	19.8
3 2	9 4.75	+22 54.0	1.828	2.731	10.5	20.1
3 12	8 58.62	+23 17.9	1.895	2.721	14.0	20.3

500975 2013 QJ_{77} 2 8.4 237°.44 0°.8/ 9.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.04	+11 1.8	2.078	2.855	14.2	22.1
1 12	9 46.74	+11 13.7	1.979	2.847	11.2	21.8
1 22	9 40.16	+11 37.6	1.903	2.837	7.6	21.6
2 1	9 31.82	+12 11.0	1.853	2.828	3.6	21.3
2 11	9 22.56	+12 49.6	1.833	2.818	1.2	21.1
2 21	9 13.38	+13 28.8	1.842	2.808	5.3	21.4
3 2	9 5.32	+14 4.0	1.879	2.798	9.3	21.6
3 12	8 59.20	+14 31.9	1.941	2.787	12.9	21.8

114861 2003 QD 2 8.4 136°.40 0°.5/ 8.0 18

1 2	9 53.34	+13 30.2	1.837	2.625	15.4	20.7
1 12	9 48.64	+14 7.5	1.760	2.636	11.9	20.5
1 22	9 41.44	+14 57.2	1.705	2.645	7.9	20.2
2 1	9 32.35	+15 54.5	1.677	2.654	3.4	20.0
2 11	9 22.40	+16 52.9	1.678	2.663	1.5	19.8
2 21	9 12.75	+17 45.9	1.708	2.671	6.0	20.2
3 2	9 4.51	+18 28.8	1.765	2.679	10.2	20.4
3 12	8 58.53	+18 58.9	1.847	2.686	13.7	20.7

57787 2001 VX_{87} 2 8.4 81°.56 0°.1/ 8.5 18

1 2	9 46.91	+11 21.5	2.340	3.119	12.7	19.6
1 12	9 43.18	+12 3.7	2.258	3.128	9.9	19.4
1 22	9 37.57	+12 57.5	2.200	3.138	6.5	19.2
2 1	9 30.61	+13 59.3	2.170	3.147	2.9	19.0
2 11	9 23.01	+15 4.1	2.170	3.156	1.0	18.8
2 21	9 15.60	+16 6.4	2.200	3.165	4.7	19.1
3 2	9 9.18	+17 1.9	2.259	3.174	8.1	19.3
3 12	9 4.39	+17 47.4	2.343	3.183	11.2	19.6

12592 1999 RD_{134} 2 8.4 180°.66 1°.8/ 9.8 18

1 2	9 51.17	+ 8 34.8	2.300	3.062	13.5	18.7
1 12	9 46.49	+ 8 32.7	2.206	3.062	10.7	18.5
1 22	9 39.80	+ 8 42.0	2.136	3.063	7.4	18.3
2 1	9 31.59	+ 9 1.2	2.093	3.063	3.9	18.1
2 11	9 22.66	+ 9 27.3	2.079	3.063	1.9	17.9
2 21	9 13.88	+ 9 56.7	2.096	3.062	4.8	18.1
3 2	9 6.14	+10 25.5	2.141	3.061	8.3	18.4
3 12	9 0.14	+10 50.6	2.213	3.060	11.4	18.6

492500 2014 NG_{62} 2 8.4 255°.04 4°.1/ 5.5 18

1 2	9 53.63	+21 6.7	1.634	2.446	16.0	21.9
1 12	9 49.67	+22 15.6	1.542	2.431	12.4	21.6
1 22	9 42.63	+23 35.1	1.472	2.416	8.4	21.3
2 1	9 33.07	+24 56.7	1.428	2.401	4.8	21.1
2 11	9 22.09	+26 10.4	1.412	2.385	5.0	21.1
2 21	9 11.15	+27 7.3	1.423	2.369	9.0	21.2
3 2	9 1.73	+27 42.4	1.460	2.352	13.3	21.5
3 12	8 55.04	+27 54.9	1.518	2.336	17.2	21.7

195510 2002 HX_{4} 2 8.4 246°.03 3°.1/ 5.9 18

1 2	9 52.62	+23 0.2	2.345	3.140	12.2	20.2
1 12	9 47.84	+23 40.1	2.246	3.126	9.5	20.0
1 22	9 40.83	+24 23.8	2.172	3.112	6.4	19.7
2 1	9 32.10	+25 6.0	2.125	3.097	3.7	19.5
2 11	9 22.48	+25 41.1	2.109	3.082	3.7	19.5
2 21	9 12.94	+26 4.6	2.122	3.066	6.6	19.7
3 2	9 4.49	+26 14.1	2.163	3.050	9.9	19.8
3 12	8 57.95	+26 9.2	2.229	3.034	12.9	20.0

432229 2009 HL_{36} 2 8.4 3°.98 6°.9/ 3.5 18

1 2	9 48.78	+29 56.8	1.635	2.462	15.2	20.5
1 12	9 45.76	+31 5.2	1.570	2.462	12.0	20.3
1 22	9 39.84	+32 12.6	1.527	2.463	8.9	20.1
2 1	9 31.72	+33 9.8	1.509	2.465	7.0	20.0
2 11	9 22.64	+33 47.9	1.517	2.468	7.7	20.0
2 21	9 13.96	+34 1.8	1.550	2.472	10.4	20.2
3 2	9 7.00	+33 50.5	1.607	2.478	13.6	20.4
3 12	9 2.67	+33 16.7	1.684	2.484	16.6	20.6

95915 2003 HM_{46} 2 8.4 300°.53 1°.8/ 7.3 18

1 2	9 50.54	+15 29.6	1.432	2.246	17.6	20.0
1 12	9 47.43	+16 16.0	1.347	2.238	13.7	19.7
1 22	9 41.20	+17 17.9	1.283	2.230	9.1	19.4
2 1	9 32.44	+18 29.1	1.243	2.221	4.0	19.1
2 11	9 22.35	+19 40.2	1.230	2.213	2.7	19.0
2 21	9 12.41	+20 42.3	1.243	2.206	7.9	19.2
3 2	9 4.12	+21 28.5	1.282	2.198	12.9	19.5
3 12	8 58.66	+21 55.8	1.341	2.191	17.3	19.8

143422 2003 BJ_{56} 2 8.4 61°.41 1°.4/ 7.4 18

1 2	9 51.21	+18 39.6	2.235	3.028	12.8	19.7
1 12	9 46.55	+18 54.3	2.158	3.037	9.9	19.5
1 22	9 39.81	+19 14.2	2.104	3.046	6.5	19.3
2 1	9 31.58	+19 35.3	2.077	3.054	2.9	19.1
2 11	9 22.71	+19 53.4	2.080	3.063	2.0	19.1
2 21	9 14.14	+20 5.1	2.113	3.072	5.4	19.3
3 2	9 6.75	+20 8.1	2.174	3.081	8.9	19.5
3 12	9 1.24	+20 1.8	2.260	3.090	11.9	19.7

473437 2015 WV_{14} 2 8.4 36°.80 6°.0/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.40	+24 59.6	1.364	2.192	17.6	20.5
1 12	9 49.78	+26 15.2	1.300	2.197	13.7	20.3
1 22	9 42.73	+27 36.0	1.258	2.202	9.6	20.0
2 1	9 33.06	+28 51.1	1.240	2.207	6.4	19.9
2 11	9 22.18	+29 49.1	1.247	2.213	7.0	19.9
2 21	9 11.80	+30 22.5	1.280	2.219	10.5	20.1
3 2	9 3.48	+30 28.9	1.337	2.226	14.6	20.4
3 12	8 58.31	+30 10.8	1.413	2.232	18.2	20.6

496613 2015 FE_{382} 2 8.4 91°.29 2°.4/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.89	+ 7 0.6	2.289	3.048	13.6	21.2
1 12	9 45.44	+ 6 50.4	2.204	3.057	10.8	21.0
1 22	9 39.06	+ 6 52.4	2.143	3.065	7.7	20.8
2 1	9 31.26	+ 7 5.3	2.108	3.074	4.3	20.6
2 11	9 22.82	+ 7 26.5	2.102	3.083	2.4	20.5
2 21	9 14.61	+ 7 52.7	2.126	3.092	4.8	20.7
3 2	9 7.44	+ 8 20.1	2.179	3.100	8.0	20.9
3 12	9 2.00	+ 8 45.4	2.257	3.109	11.1	21.1

284991 2010 JU_{111} 2 8.4 190°.52 2°.3/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.94	+19 37.7	2.481	3.277	11.6	20.6
1 12	9 44.01	+20 34.9	2.395	3.277	8.9	20.4
1 22	9 38.17	+21 38.4	2.334	3.277	5.9	20.2
2 1	9 30.90	+22 43.3	2.301	3.276	3.0	20.0
2 11	9 22.94	+23 43.9	2.298	3.275	2.9	20.0
2 21	9 15.11	+24 35.2	2.326	3.274	5.8	20.2
3 2	9 8.24	+25 14.0	2.381	3.273	8.9	20.4
3 12	9 3.02	+25 38.9	2.461	3.272	11.6	20.5

113172 2002 RN_{102} 2 8.4 88°.20 0°.6/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.96	+10 57.3	2.298	3.073	13.1	20.1
1 12	9 44.70	+11 22.0	2.223	3.090	10.2	19.9
1 22	9 38.54	+11 57.7	2.171	3.106	6.8	19.8
2 1	9 31.02	+12 41.2	2.146	3.121	3.1	19.5
2 11	9 22.92	+13 28.2	2.151	3.137	1.0	19.4
2 21	9 15.08	+14 14.1	2.187	3.153	4.6	19.7
3 2	9 8.30	+14 55.0	2.251	3.168	8.0	19.9
3 12	9 3.22	+15 28.0	2.340	3.183	11.1	20.1

464727 2002 TV_{264} 2 8.4 72°.55 6°.0/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.03	+31 58.2	2.185	2.984	12.9	20.9
1 12	9 50.34	+33 1.8	2.139	3.013	10.2	20.8
1 22	9 42.29	+34 1.0	2.118	3.042	7.6	20.7
2 1	9 32.62	+34 48.5	2.124	3.071	6.1	20.6
2 11	9 22.40	+35 18.3	2.159	3.100	6.6	20.7
2 21	9 12.75	+35 27.8	2.222	3.128	8.6	20.9
3 2	9 4.66	+35 17.0	2.311	3.156	11.0	21.1
3 12	8 58.81	+34 48.8	2.422	3.184	13.2	21.3

150253 1999 LQ_{8} 2 8.4 269°.72 2°.2/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.90	+16 31.2	1.968	2.768	14.1	19.9
1 12	9 45.41	+17 42.5	1.869	2.754	10.9	19.6
1 22	9 39.49	+19 6.9	1.794	2.739	7.2	19.4
2 1	9 31.62	+20 38.2	1.747	2.724	3.3	19.1
2 11	9 22.68	+22 8.4	1.729	2.709	3.0	19.1
2 21	9 13.72	+23 29.4	1.740	2.694	6.9	19.3
3 2	9 5.90	+24 35.2	1.778	2.678	10.9	19.5
3 12	9 0.14	+25 22.7	1.840	2.663	14.5	19.7

214203 2005 EM_{54} 2 8.4 290°.42 0°.5/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.36	+11 45.9	1.607	2.405	16.8	20.9
1 12	9 46.96	+12 3.4	1.512	2.392	13.3	20.7
1 22	9 40.74	+12 36.5	1.438	2.378	9.0	20.4
2 1	9 32.23	+13 21.7	1.388	2.365	4.1	20.1
2 11	9 22.46	+14 13.1	1.365	2.351	1.3	19.8
2 21	9 12.76	+15 4.0	1.370	2.338	6.5	20.1
3 2	9 4.45	+15 47.9	1.401	2.325	11.4	20.4
3 12	8 58.64	+16 20.6	1.455	2.312	15.8	20.6

141394 2002 AS_{109} 2 8.4 44°.71 0°.1/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.34	+13 9.8	2.205	2.991	13.2	20.3
1 12	9 44.36	+13 23.9	2.127	3.001	10.3	20.1
1 22	9 38.39	+13 47.4	2.072	3.011	6.8	19.9
2 1	9 30.99	+14 17.2	2.044	3.021	3.0	19.7
2 11	9 22.95	+14 49.3	2.045	3.031	1.0	19.5
2 21	9 15.17	+15 19.4	2.076	3.041	4.8	19.8
3 2	9 8.49	+15 44.3	2.134	3.052	8.4	20.0
3 12	9 3.59	+16 1.6	2.218	3.063	11.5	20.3

95610 2002 FQ_{34} 2 8.4 4°.76 4°.4/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.33	+ 1 34.3	1.729	2.492	17.2	19.5
1 12	9 43.43	+ 1 32.6	1.643	2.492	14.1	19.3
1 22	9 38.13	+ 1 52.5	1.577	2.492	10.5	19.0
2 1	9 30.99	+ 2 33.8	1.535	2.493	6.7	18.8
2 11	9 22.93	+ 3 33.0	1.519	2.494	4.4	18.7
2 21	9 15.05	+ 4 44.1	1.530	2.496	6.2	18.8
3 2	9 8.43	+ 5 59.5	1.568	2.498	9.9	19.0
3 12	9 3.93	+ 7 12.0	1.631	2.501	13.6	19.2

498382 2007 WV_{46} 2 8.4 64°.47 0°.2/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.70	+13 54.0	2.231	3.013	13.2	21.4
1 12	9 46.14	+13 56.0	2.149	3.021	10.2	21.2
1 22	9 39.56	+14 6.0	2.091	3.029	6.8	21.0
2 1	9 31.49	+14 21.5	2.060	3.037	3.0	20.8
2 11	9 22.79	+14 38.7	2.059	3.045	1.0	20.6
2 21	9 14.34	+14 54.4	2.087	3.053	4.8	20.9
3 2	9 7.02	+15 5.6	2.144	3.061	8.4	21.2
3 12	9 1.53	+15 10.5	2.226	3.069	11.6	21.4

117014 2004 JG_{5} 2 8.4 310°.30 7°.5/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.23	− 3 29.2	1.796	2.523	17.9	19.5
1 12	9 46.44	− 4 25.1	1.703	2.519	15.2	19.3
1 22	9 40.15	− 5 0.6	1.630	2.515	12.2	19.1
2 1	9 31.90	− 5 12.6	1.580	2.510	9.3	18.9
2 11	9 22.62	− 5 0.6	1.555	2.506	7.6	18.8
2 21	9 13.42	− 4 27.1	1.556	2.502	8.4	18.8
3 2	9 5.46	− 3 37.5	1.584	2.499	11.0	19.0
3 12	8 59.67	− 2 39.5	1.634	2.495	14.1	19.2

377948 2006 HA_{102} 2 8.4 75°.45 4°.4/ 4.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.24	+24 49.5	2.090	2.898	13.1	21.0
1 12	9 46.15	+26 0.5	2.020	2.906	10.1	20.8
1 22	9 39.75	+27 14.8	1.974	2.914	7.0	20.6
2 1	9 31.63	+28 25.0	1.956	2.922	4.6	20.5
2 11	9 22.74	+29 24.0	1.967	2.930	5.1	20.5
2 21	9 14.12	+30 6.6	2.006	2.938	7.8	20.7
3 2	9 6.78	+30 30.2	2.071	2.946	10.8	20.9
3 12	9 1.52	+30 35.1	2.160	2.954	13.6	21.1

254051 2004 GT_{41} 2 8.4 351°.47 0°.9/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.82	+13 36.6	1.154	1.985	20.0	19.5
1 12	9 45.05	+13 14.6	1.076	1.975	15.8	19.2
1 22	9 39.86	+13 6.1	1.017	1.966	10.7	18.9
2 1	9 31.93	+13 8.6	0.980	1.958	4.9	18.5
2 11	9 22.61	+13 17.3	0.967	1.953	1.6	18.3
2 21	9 13.57	+13 26.6	0.977	1.949	7.6	18.6
3 2	9 6.48	+13 31.4	1.010	1.947	13.2	18.9
3 12	9 2.53	+13 28.0	1.063	1.947	18.1	19.2

134462 1998 ST_{163} 2 8.4 68°.95 5°.2/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 59.45	+25 41.6	1.606	2.414	16.3	19.9
1 12	9 53.47	+26 44.9	1.565	2.450	12.6	19.8
1 22	9 44.55	+27 48.7	1.546	2.485	8.6	19.6
2 1	9 33.64	+28 43.7	1.554	2.520	5.6	19.5
2 11	9 22.12	+29 22.0	1.589	2.554	5.9	19.6
2 21	9 11.43	+29 39.3	1.652	2.588	8.9	19.9
3 2	9 2.80	+29 35.6	1.741	2.622	12.2	20.1
3 12	8 56.98	+29 13.6	1.852	2.655	15.2	20.4

408855 2001 SL_{193} 2 8.4 90°.13 2°.7/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.42	+ 4 14.4	1.903	2.662	16.0	21.5
1 12	9 46.18	+ 4 36.5	1.831	2.682	12.8	21.3
1 22	9 39.70	+ 5 17.3	1.780	2.702	9.0	21.1
2 1	9 31.60	+ 6 14.2	1.755	2.721	5.1	20.9
2 11	9 22.79	+ 7 22.3	1.759	2.740	2.7	20.8
2 21	9 14.31	+ 8 35.1	1.791	2.759	5.3	21.0
3 2	9 7.12	+ 9 46.2	1.852	2.777	9.0	21.3
3 12	9 1.95	+10 50.1	1.938	2.795	12.4	21.5

492908 2014 QX_{437} 2 8.4 182°.66 5°.1/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.16	− 2 55.6	2.178	2.895	15.4	21.5
1 12	9 45.13	− 2 50.7	2.081	2.895	12.9	21.4
1 22	9 39.03	− 2 24.7	2.005	2.896	10.0	21.2
2 1	9 31.35	− 1 37.4	1.954	2.895	7.0	21.0
2 11	9 22.86	− 0 31.3	1.931	2.895	5.1	20.9
2 21	9 14.48	+ 0 48.7	1.937	2.893	6.0	20.9
3 2	9 7.12	+ 2 16.0	1.971	2.892	8.8	21.1
3 12	9 1.52	+ 3 43.4	2.032	2.889	11.9	21.3

36660 2000 QF_{206} 2 8.4 177°.37 0°.2/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.93	+12 17.6	3.004	3.771	10.5	20.9
1 12	9 43.57	+12 39.5	2.909	3.772	8.2	20.8
1 22	9 37.68	+13 9.3	2.840	3.774	5.4	20.6
2 1	9 30.66	+13 44.5	2.799	3.774	2.4	20.4
2 11	9 23.12	+14 21.9	2.789	3.775	0.8	20.2
2 21	9 15.69	+14 58.3	2.810	3.775	3.8	20.5
3 2	9 9.01	+15 30.8	2.862	3.774	6.7	20.7
3 12	9 3.64	+15 57.2	2.940	3.774	9.3	20.8

464693 2001 XO_{260} 2 8.4 27°.66 7°.2/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.10	+27 56.0	1.382	2.215	17.2	20.4
1 12	9 47.91	+29 20.5	1.329	2.226	13.4	20.2
1 22	9 41.42	+30 46.0	1.297	2.238	9.7	20.1
2 1	9 32.48	+32 0.9	1.290	2.251	7.3	19.9
2 11	9 22.51	+32 54.5	1.308	2.265	8.1	20.0
2 21	9 13.14	+33 20.6	1.351	2.279	11.1	20.2
3 2	9 5.84	+33 18.2	1.417	2.295	14.7	20.5
3 12	9 1.55	+32 50.9	1.502	2.311	17.8	20.7

19390 1998 DK_{14} 2 8.4 281°.18 1°.7/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.38	+17 19.5	1.621	2.426	16.3	18.9
1 12	9 49.44	+17 43.5	1.522	2.408	12.8	18.6
1 22	9 42.49	+18 18.0	1.444	2.389	8.5	18.3
2 1	9 33.06	+18 57.9	1.392	2.370	3.8	17.9
2 11	9 22.24	+19 36.2	1.367	2.351	2.6	17.8
2 21	9 11.44	+20 6.3	1.370	2.332	7.4	18.1
3 2	9 2.12	+20 23.5	1.399	2.313	12.3	18.3
3 12	8 55.44	+20 26.0	1.450	2.293	16.6	18.5

127548 2002 YM 2 8.4 27°.71 3°.9/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.52	+19 21.8	1.236	2.067	18.9	19.5
1 12	9 48.51	+20 25.3	1.171	2.071	14.6	19.2
1 22	9 42.03	+21 41.3	1.126	2.076	9.7	19.0
2 1	9 32.83	+23 0.0	1.104	2.081	4.9	18.7
2 11	9 22.36	+24 9.8	1.108	2.086	4.8	18.7
2 21	9 12.36	+25 1.2	1.137	2.093	9.4	19.0
3 2	9 4.44	+25 29.3	1.189	2.099	14.3	19.3
3 12	8 59.72	+25 34.0	1.262	2.106	18.5	19.6

327374 2005 UX_{322} 2 8.4 119°.47 2°.7/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.99	+ 5 34.9	2.096	2.853	14.8	21.8
1 12	9 46.48	+ 5 35.9	2.014	2.864	11.8	21.6
1 22	9 39.86	+ 5 51.9	1.954	2.875	8.4	21.4
2 1	9 31.67	+ 6 21.4	1.921	2.886	4.8	21.2
2 11	9 22.78	+ 7 1.0	1.916	2.896	2.7	21.1
2 21	9 14.13	+ 7 46.2	1.941	2.907	5.1	21.3
3 2	9 6.64	+ 8 32.1	1.994	2.916	8.6	21.5
3 12	9 1.04	+ 9 14.3	2.072	2.926	11.9	21.7

228068 2008 OF_{8} 2 8.4 223°.31 1°.1/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.58	+ 9 40.5	2.444	3.208	12.7	22.2
1 12	9 46.06	+ 9 53.9	2.339	3.198	10.1	22.0
1 22	9 39.58	+10 18.6	2.258	3.187	6.9	21.8
2 1	9 31.58	+10 52.4	2.204	3.176	3.4	21.6
2 11	9 22.80	+11 31.9	2.180	3.165	1.3	21.4
2 21	9 14.07	+12 13.1	2.187	3.153	4.6	21.6
3 2	9 6.24	+12 51.8	2.223	3.140	8.1	21.8
3 12	9 0.05	+13 24.9	2.285	3.127	11.3	22.0

42304 2001 VZ_{34} 2 8.4 221°.84 8°.2/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.47	+41 22.8	2.579	3.366	11.5	19.3
1 12	9 48.77	+42 59.2	2.514	3.363	9.8	19.2
1 22	9 41.60	+44 28.3	2.475	3.359	8.6	19.1
2 1	9 32.51	+45 41.8	2.462	3.355	8.3	19.1
2 11	9 22.48	+46 33.0	2.476	3.352	9.1	19.1
2 21	9 12.63	+46 58.6	2.516	3.348	10.6	19.2
3 2	9 4.10	+46 58.3	2.578	3.344	12.3	19.3
3 12	8 57.76	+46 35.0	2.661	3.340	14.0	19.4

189432 1998 QJ_{29} 2 8.4 91°.57 1°.7/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.16	+ 9 57.3	1.488	2.274	18.5	21.1
1 12	9 51.93	+ 9 55.6	1.424	2.295	14.6	20.9
1 22	9 43.74	+10 9.6	1.381	2.315	9.9	20.7
2 1	9 33.41	+10 36.3	1.362	2.335	4.8	20.4
2 11	9 22.21	+11 10.2	1.370	2.355	1.9	20.3
2 21	9 11.58	+11 45.4	1.407	2.375	6.3	20.6
3 2	9 2.81	+12 16.7	1.470	2.394	11.0	20.9
3 12	8 56.79	+12 40.1	1.556	2.412	15.0	21.2

136200 2003 VS_{5} 2 8.4 210°.15 4°.0/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.12	+22 42.7	1.861	2.666	14.6	20.3
1 12	9 49.54	+23 41.2	1.777	2.662	11.3	20.1
1 22	9 42.24	+24 45.6	1.716	2.658	7.7	19.8
2 1	9 32.83	+25 48.5	1.682	2.653	4.5	19.6
2 11	9 22.37	+26 42.0	1.677	2.648	4.7	19.6
2 21	9 12.10	+27 19.8	1.700	2.643	8.0	19.8
3 2	9 3.29	+27 38.7	1.750	2.637	11.8	20.0
3 12	8 56.89	+27 38.7	1.822	2.631	15.1	20.2

97812 2000 OH_{46} 2 8.4 159°.72 0°.9/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.20	+10 1.8	2.080	2.848	14.5	20.8
1 12	9 49.05	+10 22.6	1.994	2.856	11.4	20.6
1 22	9 41.61	+10 56.3	1.931	2.863	7.7	20.4
2 1	9 32.47	+11 40.0	1.896	2.870	3.7	20.1
2 11	9 22.52	+12 28.8	1.890	2.875	1.2	20.0
2 21	9 12.79	+13 17.5	1.914	2.880	5.2	20.2
3 2	9 4.29	+14 1.5	1.968	2.884	9.1	20.5
3 12	8 57.80	+14 37.3	2.046	2.887	12.5	20.7

363120 2001 OC_{59} 2 8.4 171°.92 0°.6/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.14	+14 13.9	2.354	3.132	12.7	21.9
1 12	9 47.26	+14 50.0	2.266	3.136	9.9	21.7
1 22	9 40.34	+15 35.6	2.201	3.139	6.5	21.5
2 1	9 31.90	+16 26.6	2.164	3.142	2.8	21.3
2 11	9 22.72	+17 18.2	2.159	3.144	1.3	21.1
2 21	9 13.70	+18 5.4	2.183	3.145	5.1	21.4
3 2	9 5.75	+18 44.5	2.237	3.145	8.6	21.6
3 12	8 59.56	+19 13.1	2.317	3.145	11.7	21.8

341043 2007 GC_{63} 2 8.4 128°.55 2°.6/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.77	+ 5 46.6	2.139	2.897	14.4	21.3
1 12	9 45.56	+ 5 47.0	2.051	2.903	11.6	21.1
1 22	9 39.28	+ 6 2.0	1.987	2.908	8.2	20.9
2 1	9 31.44	+ 6 30.2	1.948	2.913	4.7	20.7
2 11	9 22.88	+ 7 8.5	1.938	2.918	2.6	20.5
2 21	9 14.50	+ 7 52.5	1.957	2.923	5.0	20.7
3 2	9 7.22	+ 8 37.3	2.005	2.928	8.5	20.9
3 12	9 1.77	+ 9 18.7	2.078	2.932	11.8	21.1

5118 Elnapoul 2 8.4 190°.26 5°.1/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.29	− 2 0.4	2.456	3.164	14.1	17.7
1 12	9 46.53	− 2 25.2	2.355	3.163	11.8	17.5
1 22	9 39.84	− 2 33.8	2.276	3.161	9.2	17.3
2 1	9 31.69	− 2 25.4	2.222	3.159	6.6	17.1
2 11	9 22.79	− 2 0.8	2.197	3.155	5.1	17.0
2 21	9 13.97	− 1 23.0	2.202	3.152	6.0	17.1
3 2	9 6.06	− 0 36.1	2.235	3.147	8.4	17.2
3 12	8 59.78	+ 0 14.8	2.295	3.142	11.1	17.4

204190 2004 BO_{77} 2 8.4 351°.97 0°.6/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.07	+15 14.6	2.043	2.837	13.8	20.2
1 12	9 45.22	+15 34.1	1.956	2.836	10.7	20.0
1 22	9 39.15	+16 2.6	1.892	2.834	7.1	19.8
2 1	9 31.42	+16 36.5	1.855	2.833	3.0	19.5
2 11	9 22.89	+17 10.9	1.847	2.832	1.4	19.4
2 21	9 14.55	+17 41.2	1.868	2.831	5.5	19.7
3 2	9 7.39	+18 3.7	1.916	2.831	9.4	19.9
3 12	9 2.18	+18 16.3	1.988	2.831	12.7	20.1

132179 2002 EL_{27} 2 8.4 3°.07 2°.9/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.66	+18 27.5	1.194	2.029	19.2	19.7
1 12	9 47.18	+19 3.9	1.125	2.027	14.9	19.4
1 22	9 41.21	+19 52.5	1.076	2.027	9.8	19.1
2 1	9 32.51	+20 45.6	1.049	2.027	4.6	18.8
2 11	9 22.50	+21 33.4	1.047	2.029	3.8	18.8
2 21	9 12.92	+22 7.4	1.070	2.032	8.9	19.1
3 2	9 5.40	+22 22.8	1.115	2.036	14.0	19.4
3 12	9 1.08	+22 18.8	1.180	2.040	18.5	19.7

490529 2009 VC 2 8.4 185°.58 9°.9/27.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 4.51	+50 6.2	2.717	3.465	12.0	21.9
1 12	9 57.62	+51 45.4	2.664	3.465	10.8	21.8
1 22	9 47.61	+53 11.6	2.635	3.464	10.1	21.8
2 1	9 35.18	+54 16.0	2.630	3.463	10.0	21.7
2 11	9 21.59	+54 52.0	2.651	3.461	10.7	21.8
2 21	9 8.35	+54 57.3	2.696	3.458	11.9	21.9
3 2	8 56.90	+54 33.3	2.762	3.454	13.2	22.0
3 12	8 48.30	+53 45.0	2.846	3.450	14.5	22.1

452144 2015 RL_{19} 2 8.4 89°.65 3°.9/ 6.1 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 59.11	+21 24.7	1.536	2.343	17.1	21.9
1 12	9 53.43	+22 25.9	1.484	2.370	13.1	21.7
1 22	9 44.70	+23 33.0	1.455	2.398	8.6	21.5
2 1	9 33.80	+24 37.1	1.451	2.425	4.7	21.3
2 11	9 22.13	+25 29.1	1.476	2.451	4.6	21.4
2 21	9 11.17	+26 3.0	1.529	2.477	8.3	21.7
3 2	9 2.23	+26 17.0	1.607	2.502	12.2	22.0
3 12	8 56.17	+26 12.3	1.708	2.526	15.6	22.2

377093 2002 VX_{146} 2 8.4 63°.27 1°.8/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.16	+ 8 7.0	2.068	2.837	14.5	21.3
1 12	9 45.74	+ 8 15.2	2.002	2.862	11.4	21.1
1 22	9 39.29	+ 8 36.8	1.959	2.887	7.9	20.9
2 1	9 31.40	+ 9 9.1	1.942	2.913	4.1	20.7
2 11	9 22.96	+ 9 48.4	1.954	2.938	1.8	20.6
2 21	9 14.87	+10 29.8	1.995	2.963	4.8	20.9
3 2	9 8.02	+11 9.0	2.065	2.988	8.4	21.1
3 12	9 3.03	+11 42.5	2.160	3.013	11.5	21.4

73996 1998 FU_{28} 2 8.5 22°.94 4°.2/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.71	− 0 47.9	1.730	2.487	17.4	18.2
1 12	9 41.33	− 0 15.3	1.655	2.498	14.3	18.0
1 22	9 36.69	+ 0 43.0	1.599	2.510	10.6	17.8
2 1	9 30.37	+ 2 5.3	1.567	2.523	6.8	17.6
2 11	9 23.29	+ 3 46.1	1.561	2.537	4.3	17.5
2 21	9 16.46	+ 5 36.9	1.584	2.551	5.8	17.6
3 2	9 10.87	+ 7 28.3	1.634	2.567	9.4	17.8
3 12	9 7.29	+ 9 11.7	1.710	2.583	13.0	18.1

403808 2011 UR_{101} 2 8.5 50°.93 0°.5/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.91	+13 2.3	1.432	2.240	18.0	21.5
1 12	9 47.43	+13 39.5	1.363	2.250	14.0	21.2
1 22	9 40.99	+14 32.7	1.315	2.259	9.2	21.0
2 1	9 32.31	+15 36.1	1.291	2.270	3.9	20.7
2 11	9 22.63	+16 41.7	1.295	2.280	1.7	20.6
2 21	9 13.34	+17 41.1	1.325	2.291	6.9	20.9
3 2	9 5.79	+18 28.1	1.380	2.302	11.7	21.2
3 12	9 0.93	+18 59.5	1.458	2.313	15.8	21.5

182540 2001 TS_{49} 2 8.5 102.°83 8.°4/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 58.09	+36 3.1	1.871	2.675	14.6	20.1
1 12	9 52.76	+37 24.7	1.814	2.684	11.9	20.0
1 22	9 44.38	+38 39.9	1.780	2.693	9.6	19.8
2 1	9 33.74	+39 38.4	1.771	2.702	8.5	19.8
2 11	9 22.16	+40 12.0	1.789	2.711	9.2	19.8
2 21	9 11.11	+40 16.9	1.833	2.720	11.3	20.0
3 2	9 1.97	+39 54.1	1.901	2.728	13.8	20.2
3 12	8 55.64	+39 8.0	1.989	2.737	16.1	20.4

179842 2002 TK_{225} 2 8.5 85.°65 1.°4/ 9.5 18

1 2	9 53.10	+ 8 34.7	1.816	2.590	16.1	20.8
1 12	9 48.29	+ 8 59.5	1.752	2.616	12.6	20.7
1 22	9 41.10	+ 9 39.9	1.710	2.642	8.5	20.5
2 1	9 32.23	+10 32.0	1.694	2.667	4.2	20.3
2 11	9 22.69	+11 30.3	1.707	2.692	1.5	20.1
2 21	9 13.59	+12 28.4	1.750	2.717	5.4	20.4
3 2	9 5.94	+13 21.0	1.820	2.741	9.4	20.7
3 12	9 0.48	+14 4.1	1.915	2.765	12.8	21.0

185425 2006 XR_{7} 2 8.5 161.°67 2.°2/ 6.6 18

1 2	9 53.46	+19 31.3	2.336	3.124	12.5	21.4
1 12	9 48.32	+20 17.8	2.254	3.131	9.6	21.2
1 22	9 41.06	+21 10.2	2.196	3.137	6.3	21.0
2 1	9 32.23	+22 3.4	2.167	3.142	3.1	20.8
2 11	9 22.67	+22 51.6	2.169	3.147	2.8	20.8
2 21	9 13.33	+23 30.4	2.201	3.151	5.9	21.0
3 2	9 5.12	+23 56.7	2.261	3.155	9.2	21.2
3 12	8 58.79	+24 9.6	2.347	3.158	12.1	21.4

465651 2009 RN_{15} 2 8.5 179.°21 5.°0/ 4.3 18

1 2	9 56.60	+29 33.6	2.371	3.165	12.2	21.8
1 12	9 50.87	+30 24.4	2.292	3.166	9.6	21.6
1 22	9 42.80	+31 13.9	2.238	3.167	7.0	21.5
2 1	9 33.00	+31 55.5	2.212	3.168	5.2	21.4
2 11	9 22.42	+32 23.2	2.215	3.168	5.6	21.4
2 21	9 12.12	+32 33.5	2.248	3.167	7.8	21.5
3 2	9 3.13	+32 25.4	2.308	3.166	10.5	21.7
3 12	8 56.23	+32 0.5	2.391	3.164	13.0	21.9

498943 2009 BN_{52} 2 8.5 43.°52 1.°2/ 9.7 18

1 2	9 45.78	+ 6 41.6	2.087	2.859	14.3	20.9
1 12	9 42.57	+ 7 34.1	2.006	2.869	11.3	20.7
1 22	9 37.35	+ 8 43.9	1.947	2.878	7.7	20.5
2 1	9 30.64	+10 7.4	1.915	2.888	3.8	20.3
2 11	9 23.22	+11 38.5	1.913	2.898	1.4	20.1
2 21	9 16.00	+13 10.2	1.940	2.908	4.9	20.4
3 2	9 9.84	+14 35.9	1.996	2.918	8.6	20.6
3 12	9 5.44	+15 50.5	2.077	2.929	11.9	20.8

64300 2001 UH_{16} 2 8.5 266.°83 2.°8/ 6.5 18

1 2	9 51.73	+20 3.9	1.861	2.667	14.5	19.3
1 12	9 47.62	+20 47.3	1.777	2.663	11.2	19.1
1 22	9 40.94	+21 38.2	1.715	2.659	7.5	18.8
2 1	9 32.28	+22 30.3	1.680	2.656	3.7	18.6
2 11	9 22.65	+23 16.7	1.674	2.652	3.5	18.6
2 21	9 13.22	+23 51.6	1.695	2.648	7.1	18.8
3 2	9 5.17	+24 11.5	1.744	2.645	11.0	19.0
3 12	8 59.40	+24 15.4	1.815	2.641	14.5	19.2

190330 1998 RO_{25} 2 8.5 135.°08 2.°2/ 7.2 18

1 2	9 58.43	+18 42.1	1.690	2.487	16.2	21.1
1 12	9 52.83	+19 12.4	1.618	2.499	12.5	20.9
1 22	9 44.35	+19 50.5	1.568	2.510	8.2	20.6
2 1	9 33.73	+20 30.2	1.544	2.521	3.8	20.4
2 11	9 22.18	+21 4.4	1.549	2.531	2.9	20.4
2 21	9 11.08	+21 27.9	1.583	2.540	7.1	20.6
3 2	9 1.71	+21 37.7	1.644	2.549	11.3	20.9
3 12	8 54.99	+21 33.6	1.728	2.557	15.0	21.2

199475 2006 DQ_{66} 2 8.5 327.°91 5.°6/13.1 18

1 2	9 44.69	− 2 52.6	1.798	2.539	17.4	19.9
1 12	9 42.21	− 2 45.1	1.699	2.529	14.6	19.7
1 22	9 37.42	− 2 11.9	1.620	2.519	11.3	19.5
2 1	9 30.78	− 1 12.2	1.564	2.510	7.9	19.2
2 11	9 23.16	+ 0 11.4	1.533	2.501	5.7	19.1
2 21	9 15.58	+ 1 52.4	1.531	2.493	6.7	19.1
3 2	9 9.12	+ 3 41.9	1.555	2.485	10.0	19.3
3 12	9 4.69	+ 5 30.2	1.604	2.477	13.7	19.5

122637 2000 RA_{82} 2 8.5 97.°07 3.°3/11.1 18

1 2	9 50.29	+ 3 29.2	2.028	2.780	15.3	20.7
1 12	9 46.00	+ 3 31.6	1.951	2.795	12.4	20.5
1 22	9 39.58	+ 3 51.2	1.895	2.810	9.0	20.3
2 1	9 31.60	+ 4 26.6	1.864	2.825	5.4	20.1
2 11	9 22.92	+ 5 14.3	1.862	2.840	3.3	20.0
2 21	9 14.52	+ 6 9.3	1.889	2.854	5.3	20.2
3 2	9 7.31	+ 7 6.1	1.944	2.868	8.7	20.4
3 12	9 2.01	+ 7 59.4	2.025	2.882	11.9	20.7

11414 Allanchu 2 8.5 213.°11 0.°5/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.53	+14 9.4	1.825	2.615	15.4	19.5
1 12	9 49.04	+14 37.5	1.733	2.610	12.0	19.3
1 22	9 41.93	+15 17.7	1.664	2.605	8.0	19.0
2 1	9 32.75	+16 5.5	1.621	2.599	3.4	18.8
2 11	9 22.51	+16 55.0	1.607	2.592	1.5	18.6
2 21	9 12.41	+17 39.8	1.622	2.586	6.2	18.9
3 2	9 3.67	+18 15.3	1.664	2.578	10.6	19.1
3 12	8 57.23	+18 38.5	1.730	2.571	14.4	19.4

47022 1998 VK_{14} 2 8.5 242.°34 8.°8/ 2.3 18

1 2	9 59.13	+36 12.0	1.790	2.595	15.1	17.9
1 12	9 53.88	+37 26.8	1.721	2.591	12.4	17.7
1 22	9 45.33	+38 35.6	1.673	2.588	10.0	17.5
2 1	9 34.26	+39 27.7	1.651	2.584	8.8	17.4
2 11	9 22.03	+39 54.0	1.655	2.580	9.5	17.5
2 21	9 10.25	+39 50.2	1.685	2.576	11.8	17.6
3 2	9 0.45	+39 16.9	1.739	2.572	14.6	17.8
3 12	8 53.66	+38 19.2	1.812	2.568	17.2	17.9

388068 2005 US_{14} 2 8.5 237.°31 3.°5/ 6.3 18

1 2	9 55.80	+20 33.4	1.637	2.444	16.2	21.6
1 12	9 51.32	+21 24.0	1.547	2.433	12.6	21.3
1 22	9 43.73	+22 23.7	1.478	2.422	8.4	21.1
2 1	9 33.64	+23 25.0	1.436	2.410	4.4	20.8
2 11	9 22.20	+24 19.2	1.421	2.398	4.3	20.7
2 21	9 10.88	+24 58.6	1.434	2.385	8.4	21.0
3 2	9 1.15	+25 19.0	1.473	2.372	12.8	21.2
3 12	8 54.18	+25 20.0	1.534	2.359	16.8	21.4

83822 2001 UN_{7} 2 8.5 191.°44 5.°5/13.9 18

1 2	9 47.11	− 5 46.5	2.736	3.423	13.2	20.1
1 12	9 43.15	− 6 4.5	2.635	3.422	11.3	20.0
1 22	9 37.54	− 6 5.5	2.555	3.421	9.1	19.8
2 1	9 30.70	− 5 48.6	2.500	3.419	6.9	19.7
2 11	9 23.24	− 5 14.5	2.473	3.417	5.6	19.6
2 21	9 15.86	− 4 26.1	2.474	3.415	6.0	19.6
3 2	9 9.25	− 3 27.3	2.504	3.412	7.8	19.7
3 12	9 4.02	− 2 23.4	2.561	3.410	10.0	19.9

505543 2013 YF_{114} 2 8.5 226.°83 1.°8/ 9.8 17

1 2	9 50.91	+ 9 23.7	2.557	3.316	12.3	21.6
1 12	9 46.14	+ 9 5.6	2.459	3.314	9.8	21.4
1 22	9 39.54	+ 8 56.2	2.385	3.311	6.8	21.2
2 1	9 31.58	+ 8 54.7	2.339	3.308	3.6	21.0
2 11	9 22.96	+ 8 58.9	2.323	3.305	1.8	20.9
2 21	9 14.48	+ 9 6.5	2.337	3.302	4.4	21.0
3 2	9 6.91	+ 9 14.8	2.380	3.299	7.6	21.2
3 12	9 0.92	+ 9 21.4	2.450	3.296	10.5	21.4

334185 2001 SS_{168} 2 8.5 108.°92 1.°9/ 9.8 18

1 2	9 54.20	+ 7 9.5	1.678	2.450	17.3	21.3
1 12	9 49.43	+ 7 31.2	1.608	2.469	13.7	21.1
1 22	9 42.04	+ 8 11.0	1.558	2.488	9.4	20.9
2 1	9 32.73	+ 9 5.8	1.534	2.506	4.8	20.6
2 11	9 22.58	+10 9.6	1.539	2.523	2.0	20.5
2 21	9 12.82	+11 15.3	1.572	2.540	5.8	20.8
3 2	9 4.62	+12 16.4	1.633	2.556	10.1	21.1
3 12	8 58.80	+13 7.9	1.718	2.571	13.9	21.3

237346 2010 AV_{38} 2 8.5 52.°27 0.°0/ 8.3 18

1 2	9 57.47	+15 7.9	1.190	2.006	20.5	19.9
1 12	9 52.88	+14 58.5	1.133	2.022	15.9	19.7
1 22	9 44.73	+15 1.4	1.094	2.039	10.6	19.4
2 1	9 33.97	+15 12.0	1.078	2.056	4.6	19.1
2 11	9 22.19	+15 24.1	1.088	2.074	1.6	19.0
2 21	9 11.17	+15 32.1	1.123	2.092	7.5	19.4
3 2	9 2.48	+15 32.4	1.183	2.110	12.8	19.7
3 12	8 57.09	+15 23.3	1.264	2.128	17.2	20.1

27983 Bernardi 2 8.5 179.°17 1.°0/ 7.7 18

1 2	9 53.13	+16 15.6	2.198	2.982	13.3	19.1
1 12	9 48.21	+16 42.6	2.109	2.984	10.3	18.9
1 22	9 41.08	+17 17.6	2.045	2.985	6.8	18.6
2 1	9 32.30	+17 56.5	2.008	2.985	2.9	18.4
2 11	9 22.72	+18 34.3	2.001	2.985	1.7	18.3
2 21	9 13.34	+19 6.4	2.024	2.984	5.5	18.6
3 2	9 5.12	+19 29.5	2.076	2.983	9.2	18.8
3 12	8 58.83	+19 42.0	2.153	2.982	12.4	19.0

457549 2008 YT_{43} 2 8.5 4.°97 3.°4/10.1 16

1 2	9 48.00	+ 7 53.9	1.135	1.951	21.2	21.2
1 12	9 45.89	+ 7 29.6	1.064	1.950	17.1	20.9
1 22	9 40.40	+ 7 26.4	1.012	1.950	12.1	20.6
2 1	9 32.22	+ 7 43.5	0.980	1.952	6.6	20.3
2 11	9 22.74	+ 8 16.5	0.972	1.955	3.4	20.1
2 21	9 13.62	+ 8 58.1	0.987	1.959	7.5	20.4
3 2	9 6.46	+ 9 40.5	1.026	1.965	12.9	20.7
3 12	9 2.43	+10 16.5	1.085	1.971	17.7	21.0

65732 1993 OJ_{10} 2 8.5 155.°80 2.°6/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 52.50	+ 6 23.8	2.499	3.244	12.9	20.0
1 12	9 47.35	+ 6 4.8	2.407	3.250	10.4	19.8
1 22	9 40.32	+ 5 56.8	2.338	3.255	7.4	19.6
2 1	9 31.92	+ 5 59.0	2.297	3.261	4.3	19.5
2 11	9 22.88	+ 6 9.5	2.287	3.265	2.6	19.3
2 21	9 14.01	+ 6 25.7	2.306	3.270	4.6	19.5
3 2	9 6.13	+ 6 44.5	2.355	3.273	7.7	19.7
3 12	8 59.87	+ 7 2.8	2.431	3.277	10.6	19.9

460858 2014 WV_{112} 2 8.5 154.°15 4.°6/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.23	+ 0 29.4	2.276	2.999	14.7	21.1
1 12	9 48.11	+ 0 3.6	2.186	3.007	12.1	20.9
1 22	9 40.93	− 0 6.5	2.118	3.015	9.2	20.7
2 1	9 32.22	− 0 0.4	2.076	3.022	6.3	20.6
2 11	9 22.78	+ 0 20.5	2.063	3.028	4.6	20.5
2 21	9 13.52	+ 0 53.0	2.079	3.034	5.8	20.6
3 2	9 5.33	+ 1 32.8	2.124	3.040	8.6	20.7
3 12	8 58.93	+ 2 15.0	2.195	3.044	11.5	20.9

322214 2011 AN_{46} 2 8.5 116.°79 0.°0/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.80	+11 45.7	2.055	2.838	14.2	21.1
1 12	9 45.72	+12 24.5	1.974	2.846	11.0	20.9
1 22	9 39.48	+13 16.0	1.917	2.855	7.3	20.7
2 1	9 31.61	+14 16.1	1.886	2.863	3.2	20.5
2 11	9 22.99	+15 19.3	1.885	2.870	1.1	20.3
2 21	9 14.59	+16 19.5	1.913	2.878	5.3	20.6
3 2	9 7.36	+17 11.8	1.969	2.885	9.1	20.9
3 12	9 2.05	+17 52.9	2.051	2.892	12.4	21.1

41435 2000 GQ_{89} 2 8.5 191.°55 2.°5/10.8 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.71	+ 3 49.5	2.338	3.082	13.7	19.6
1 12	9 45.46	+ 4 14.9	2.238	3.081	11.1	19.4
1 22	9 39.23	+ 4 56.9	2.162	3.078	8.0	19.2
2 1	9 31.51	+ 5 53.8	2.112	3.076	4.6	19.0
2 11	9 23.01	+ 7 1.8	2.092	3.073	2.5	18.8
2 21	9 14.60	+ 8 15.6	2.103	3.069	4.8	19.0
3 2	9 7.13	+ 9 29.6	2.143	3.064	8.2	19.2
3 12	9 1.32	+10 38.4	2.210	3.060	11.4	19.4

63719 2001 QV_{225} 2 8.5 13.°86 3.°5/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.99	+ 4 17.7	2.189	2.941	14.3	18.8
1 12	9 44.97	+ 3 56.0	2.098	2.942	11.6	18.6
1 22	9 38.93	+ 3 48.2	2.028	2.943	8.5	18.4
2 1	9 31.37	+ 3 54.1	1.985	2.944	5.3	18.2
2 11	9 23.07	+ 4 11.8	1.970	2.945	3.5	18.1
2 21	9 14.93	+ 4 38.1	1.984	2.947	5.3	18.2
3 2	9 7.83	+ 5 9.0	2.026	2.949	8.5	18.4
3 12	9 2.49	+ 5 40.2	2.093	2.950	11.6	18.6

462056 2007 EM_{30} 2 8.5 40.°98 3.°8/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.70	+ 2 41.1	1.554	2.327	18.4	21.0
1 12	9 44.62	+ 2 51.6	1.486	2.343	14.9	20.8
1 22	9 38.98	+ 3 25.2	1.437	2.359	10.8	20.6
2 1	9 31.44	+ 4 20.3	1.412	2.375	6.5	20.4
2 11	9 23.07	+ 5 31.5	1.413	2.392	3.8	20.3
2 21	9 15.06	+ 6 51.2	1.441	2.409	6.2	20.5
3 2	9 8.54	+ 8 11.0	1.496	2.427	10.2	20.8
3 12	9 4.33	+ 9 23.6	1.574	2.446	14.0	21.0

105181 2000 OS_{29} 2 8.5 310.°60 5.°2/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.15	+ 3 13.0	1.807	2.560	16.9	18.7
1 12	9 48.70	+ 2 18.4	1.713	2.555	14.0	18.5
1 22	9 41.69	+ 1 38.5	1.640	2.550	10.5	18.3
2 1	9 32.68	+ 1 15.2	1.592	2.545	7.1	18.1
2 11	9 22.63	+ 1 8.0	1.571	2.540	5.2	17.9
2 21	9 12.69	+ 1 14.9	1.577	2.536	7.0	18.0
3 2	9 4.06	+ 1 31.8	1.611	2.532	10.4	18.2
3 12	8 57.65	+ 1 53.6	1.668	2.527	14.0	18.4

465222 2007 RB_{118} 2 8.5 45.°25 1.°5/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.91	+ 9 56.4	1.302	2.107	19.6	21.4
1 12	9 48.30	+10 2.1	1.243	2.124	15.4	21.2
1 22	9 41.60	+10 26.2	1.202	2.142	10.4	20.9
2 1	9 32.61	+11 4.9	1.185	2.161	5.0	20.7
2 11	9 22.69	+11 51.6	1.194	2.180	1.8	20.5
2 21	9 13.34	+12 38.8	1.229	2.199	6.7	20.9
3 2	9 5.92	+13 20.0	1.289	2.219	11.6	21.2
3 12	9 1.33	+13 50.7	1.371	2.239	15.8	21.5

40498 1999 RG_{80} 2 8.5 269.°50 1.°6/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.37	+ 9 29.5	2.017	2.793	14.6	19.6
1 12	9 46.31	+ 9 29.3	1.921	2.786	11.6	19.4
1 22	9 39.98	+ 9 41.7	1.848	2.779	8.0	19.1
2 1	9 31.89	+10 4.8	1.800	2.773	4.1	18.9
2 11	9 22.90	+10 35.2	1.781	2.766	1.7	18.7
2 21	9 14.03	+11 8.5	1.791	2.759	5.2	18.9
3 2	9 6.29	+11 40.3	1.829	2.752	9.2	19.1
3 12	9 0.52	+12 6.8	1.892	2.745	12.8	19.3

306896 2001 TC_{146} 2 8.5 129.°18 2.°9/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.63	+ 3 43.9	2.045	2.798	15.2	21.1
1 12	9 45.58	+ 4 3.5	1.960	2.807	12.2	20.9
1 22	9 39.38	+ 4 41.2	1.897	2.815	8.8	20.7
2 1	9 31.58	+ 5 35.2	1.859	2.823	5.1	20.5
2 11	9 23.02	+ 6 41.1	1.851	2.831	2.9	20.4
2 21	9 14.66	+ 7 53.2	1.872	2.838	5.2	20.6
3 2	9 7.43	+ 9 5.1	1.921	2.846	8.8	20.8
3 12	9 2.08	+10 11.3	1.996	2.852	12.1	21.0

426495 2013 RY_{31} 2 8.5 137.°32 1.°6/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.95	+17 53.6	2.209	3.000	13.0	22.1
1 12	9 47.26	+18 25.2	2.128	3.007	10.0	21.9
1 22	9 40.42	+19 3.6	2.072	3.013	6.6	21.7
2 1	9 32.01	+19 44.2	2.043	3.020	2.9	21.5
2 11	9 22.88	+20 21.9	2.043	3.026	2.2	21.4
2 21	9 14.00	+20 52.3	2.074	3.031	5.6	21.6
3 2	9 6.30	+21 12.4	2.133	3.037	9.1	21.9
3 12	9 0.50	+21 21.0	2.216	3.042	12.2	22.1

190084 2004 TO_{83} 2 8.5 230.°54 2.°3/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.25	+ 6 19.3	2.153	2.915	14.3	20.8
1 12	9 45.30	+ 6 28.5	2.055	2.909	11.4	20.6
1 22	9 39.24	+ 6 52.7	1.979	2.903	8.1	20.4
2 1	9 31.55	+ 7 30.3	1.929	2.896	4.5	20.1
2 11	9 23.03	+ 8 17.9	1.908	2.890	2.3	20.0
2 21	9 14.58	+ 9 10.6	1.916	2.883	5.0	20.1
3 2	9 7.16	+10 3.3	1.953	2.876	8.7	20.3
3 12	9 1.54	+10 51.3	2.015	2.869	12.1	20.5

482806 2013 WH_{4} 2 8.5 65.°02 4.°4/12.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.87	+ 1 3.4	2.108	2.849	15.2	20.7
1 12	9 44.85	+ 0 47.0	2.030	2.863	12.4	20.6
1 22	9 38.81	+ 0 47.7	1.973	2.877	9.3	20.4
2 1	9 31.30	+ 1 5.6	1.941	2.892	6.2	20.2
2 11	9 23.14	+ 1 38.2	1.937	2.907	4.4	20.1
2 21	9 15.23	+ 2 21.6	1.961	2.921	5.7	20.2
3 2	9 8.43	+ 3 10.7	2.014	2.936	8.5	20.4
3 12	9 3.43	+ 4 0.2	2.091	2.951	11.5	20.7

224656 2005 YG_{282} 2 8.5 166.°94 0.°9/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.55	+15 35.0	2.106	2.895	13.7	21.4
1 12	9 47.09	+16 3.8	2.020	2.897	10.6	21.2
1 22	9 40.40	+16 41.5	1.958	2.899	6.9	21.0
2 1	9 32.04	+17 24.2	1.923	2.900	3.0	20.7
2 11	9 22.89	+18 6.4	1.917	2.902	1.6	20.6
2 21	9 13.93	+18 43.3	1.941	2.903	5.6	20.9
3 2	9 6.16	+19 11.2	1.993	2.904	9.3	21.1
3 12	9 0.35	+19 28.1	2.070	2.904	12.6	21.3

36757 2000 RY_{71} 2 8.5 66.°74 4.°5/ 6.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.92	+23 39.4	1.456	2.273	17.3	17.5
1 12	9 52.16	+24 21.3	1.394	2.285	13.4	17.3
1 22	9 44.15	+25 7.1	1.353	2.296	9.1	17.1
2 1	9 33.73	+25 48.5	1.336	2.308	5.2	16.9
2 11	9 22.34	+26 16.8	1.347	2.320	5.2	16.9
2 21	9 11.55	+26 26.8	1.384	2.332	8.9	17.1
3 2	9 2.80	+26 16.9	1.446	2.345	13.0	17.4
3 12	8 57.04	+25 49.4	1.529	2.357	16.7	17.7

218708 2005 UB_{17} 2 8.5 127.°11 1.°4/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.42	+17 36.9	1.983	2.776	14.2	20.5
1 12	9 48.63	+17 58.5	1.903	2.782	11.0	20.3
1 22	9 41.45	+18 27.3	1.846	2.788	7.2	20.1
2 1	9 32.50	+18 58.7	1.816	2.793	3.2	19.8
2 11	9 22.74	+19 27.6	1.815	2.798	2.1	19.8
2 21	9 13.28	+19 49.5	1.843	2.803	6.0	20.0
3 2	9 5.15	+20 1.3	1.899	2.808	9.8	20.3
3 12	8 59.17	+20 2.0	1.979	2.812	13.2	20.5

344129 1999 XW_{148} 2 8.5 315.°40 4.°9/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.02	+21 18.7	1.277	2.107	18.5	20.5
1 12	9 49.13	+22 28.0	1.200	2.100	14.4	20.2
1 22	9 42.68	+23 48.9	1.144	2.092	9.7	19.9
2 1	9 33.32	+25 11.3	1.111	2.085	5.6	19.7
2 11	9 22.43	+26 23.1	1.104	2.079	5.8	19.7
2 21	9 11.79	+27 14.0	1.122	2.072	10.3	19.9
3 2	9 3.14	+27 38.8	1.163	2.066	15.1	20.1
3 12	8 57.76	+27 37.9	1.223	2.061	19.4	20.4

383645 2007 RA_{298} 2 8.5 111.°71 1.°9/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.86	+19 24.5	2.696	3.482	11.1	21.9
1 12	9 45.96	+20 8.4	2.626	3.502	8.5	21.7
1 22	9 39.33	+20 56.9	2.582	3.522	5.5	21.5
2 1	9 31.48	+21 45.6	2.567	3.542	2.7	21.4
2 11	9 23.12	+22 30.0	2.583	3.561	2.4	21.4
2 21	9 15.01	+23 6.2	2.629	3.580	5.1	21.6
3 2	9 7.90	+23 32.1	2.705	3.598	7.9	21.8
3 12	9 2.35	+23 46.7	2.806	3.616	10.4	22.0

406054 2006 UK_{31} 2 8.5 96°.19 3°.6/ 6.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 55.32	+22 24.7	1.803	2.608	15.0	22.0
1 12	9 50.30	+23 12.8	1.738	2.623	11.5	21.8
1 22	9 42.62	+24 5.4	1.696	2.638	7.7	21.6
2 1	9 33.01	+24 55.4	1.681	2.653	4.3	21.4
2 11	9 22.60	+25 35.5	1.694	2.668	4.3	21.5
2 21	9 12.65	+26 0.7	1.736	2.683	7.6	21.7
3 2	9 4.32	+26 8.9	1.804	2.697	11.2	21.9
3 12	8 58.42	+26 0.7	1.895	2.711	14.4	22.2

126282 2002 AR_{100} 2 8.5 77°.72 1°.3/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 58.53	+16 26.5	1.471	2.272	17.9	20.6
1 12	9 53.01	+16 50.1	1.416	2.299	13.8	20.4
1 22	9 44.47	+17 23.9	1.383	2.326	9.0	20.1
2 1	9 33.79	+18 1.5	1.375	2.352	3.9	19.9
2 11	9 22.37	+18 36.0	1.394	2.379	2.2	19.9
2 21	9 11.66	+19 1.6	1.442	2.405	7.0	20.2
3 2	9 2.95	+19 15.2	1.516	2.430	11.4	20.5
3 12	8 57.09	+19 15.9	1.612	2.455	15.2	20.8

211628 2003 UM_{128} 2 8.5 121°.50 0°.6/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.49	+10 32.0	1.913	2.689	15.3	21.6
1 12	9 48.65	+11 0.3	1.838	2.705	12.0	21.4
1 22	9 41.44	+11 42.3	1.786	2.720	8.0	21.2
2 1	9 32.49	+12 34.3	1.760	2.735	3.7	21.0
2 11	9 22.77	+13 30.6	1.764	2.749	1.1	20.8
2 21	9 13.37	+14 25.2	1.797	2.763	5.4	21.1
3 2	9 5.33	+15 13.1	1.858	2.776	9.4	21.4
3 12	8 59.42	+15 50.9	1.944	2.788	12.9	21.6

471756 2012 UV_{106} 2 8.5 144°.57 3°.4/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.59	+ 2 1.7	2.667	3.399	12.5	22.0
1 12	9 43.51	+ 1 56.4	2.574	3.404	10.2	21.9
1 22	9 37.79	+ 2 4.8	2.504	3.408	7.6	21.7
2 1	9 30.84	+ 2 26.3	2.460	3.413	4.9	21.5
2 11	9 23.33	+ 2 58.9	2.445	3.417	3.4	21.4
2 21	9 15.94	+ 3 39.5	2.460	3.421	4.6	21.5
3 2	9 9.38	+ 4 24.2	2.505	3.425	7.2	21.7
3 12	9 4.23	+ 5 8.8	2.576	3.429	9.8	21.9

14757 6309 P–L 2 8.5 212°.56 2°.8/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.29	+ 4 33.2	2.176	2.928	14.4	19.8
1 12	9 46.10	+ 4 42.5	2.076	2.922	11.7	19.6
1 22	9 39.78	+ 5 7.9	1.998	2.916	8.4	19.4
2 1	9 31.81	+ 5 48.4	1.945	2.909	4.9	19.2
2 11	9 22.99	+ 6 40.4	1.922	2.902	2.8	19.0
2 21	9 14.22	+ 7 39.2	1.929	2.895	5.1	19.2
3 2	9 6.47	+ 8 39.4	1.964	2.887	8.7	19.4
3 12	9 0.52	+ 9 35.8	2.025	2.878	12.1	19.6

207470 2006 HZ_{3} 2 8.5 279°.36 1°.1/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.20	+10 20.3	1.613	2.404	17.0	21.2
1 12	9 47.74	+10 34.6	1.511	2.386	13.6	21.0
1 22	9 41.41	+11 5.7	1.430	2.368	9.3	20.7
2 1	9 32.71	+11 51.0	1.374	2.350	4.4	20.3
2 11	9 22.64	+12 45.0	1.345	2.331	1.5	20.1
2 21	9 12.53	+13 40.8	1.344	2.313	6.5	20.4
3 2	9 3.77	+14 31.7	1.369	2.294	11.5	20.6
3 12	8 57.50	+15 12.2	1.416	2.275	16.0	20.8

399117 2014 DU_{113} 2 8.5 263°.88 0°.4/ 8.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.22	+13 41.0	2.758	3.538	11.0	20.9
1 12	9 42.57	+14 20.0	2.655	3.526	8.5	20.7
1 22	9 37.25	+15 8.2	2.576	3.514	5.6	20.5
2 1	9 30.66	+16 2.3	2.525	3.502	2.4	20.3
2 11	9 23.40	+16 58.1	2.505	3.490	1.1	20.2
2 21	9 16.18	+17 51.4	2.515	3.478	4.4	20.4
3 2	9 9.72	+18 38.3	2.555	3.465	7.6	20.6
3 12	9 4.65	+19 16.3	2.621	3.453	10.4	20.7

374098 2004 RX_{259} 2 8.5 270°.36 1°.9/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.85	+ 7 32.7	1.966	2.739	15.0	21.8
1 12	9 45.21	+ 7 47.0	1.872	2.734	12.0	21.6
1 22	9 39.30	+ 8 17.1	1.799	2.729	8.4	21.3
2 1	9 31.64	+ 9 0.8	1.752	2.723	4.4	21.1
2 11	9 23.07	+ 9 53.9	1.734	2.718	1.9	20.9
2 21	9 14.60	+10 50.9	1.744	2.712	5.3	21.1
3 2	9 7.27	+11 46.1	1.782	2.707	9.3	21.3
3 12	9 1.89	+12 34.6	1.845	2.701	13.0	21.5

496826 1995 SR_{65} 2 8.5 169°.86 0°.0/ 8.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.55	+12 55.8	2.842	3.612	10.9	22.9
1 12	9 44.19	+13 20.3	2.750	3.615	8.5	22.8
1 22	9 38.20	+13 52.9	2.682	3.618	5.6	22.6
2 1	9 31.03	+14 30.8	2.644	3.620	2.5	22.4
2 11	9 23.30	+15 10.5	2.636	3.622	0.8	22.2
2 21	9 15.70	+15 48.5	2.660	3.624	4.1	22.5
3 2	9 8.91	+16 21.6	2.713	3.625	7.1	22.7
3 12	9 3.50	+16 47.8	2.792	3.626	9.8	22.9

166991 2003 PY 2 8.5 120°.23 0°.2/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.61	+11 4.5	1.942	2.718	15.1	20.4
1 12	9 48.71	+11 43.3	1.869	2.737	11.7	20.3
1 22	9 41.47	+12 35.6	1.818	2.754	7.8	20.1
2 1	9 32.51	+13 37.1	1.795	2.771	3.5	19.8
2 11	9 22.81	+14 41.7	1.801	2.787	1.1	19.7
2 21	9 13.43	+15 43.0	1.837	2.803	5.4	20.0
3 2	9 5.40	+16 36.0	1.902	2.817	9.4	20.3
3 12	8 59.48	+17 17.4	1.991	2.832	12.8	20.5

209056 2003 QT_{36} 2 8.5 150°.46 0°.7/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.11	+14 58.5	2.030	2.812	14.3	21.5
1 12	9 49.86	+15 26.3	1.949	2.821	11.1	21.3
1 22	9 42.24	+16 3.6	1.891	2.830	7.3	21.1
2 1	9 32.86	+16 46.1	1.861	2.838	3.1	20.8
2 11	9 22.69	+17 28.2	1.861	2.846	1.5	20.7
2 21	9 12.79	+18 5.0	1.891	2.852	5.6	21.0
3 2	9 4.20	+18 32.8	1.949	2.859	9.5	21.3
3 12	8 57.74	+18 49.6	2.032	2.864	12.9	21.5

380702 2005 JE_{133} 2 8.5 338°.30 4°.0/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.62	+ 3 5.9	1.737	2.510	16.8	20.2
1 12	9 42.28	+ 3 1.0	1.641	2.497	13.7	20.0
1 22	9 37.55	+ 3 16.2	1.564	2.484	10.1	19.7
2 1	9 30.93	+ 3 51.5	1.511	2.473	6.4	19.5
2 11	9 23.31	+ 4 43.9	1.485	2.462	4.0	19.3
2 21	9 15.73	+ 5 47.9	1.485	2.452	6.1	19.4
3 2	9 9.33	+ 6 56.4	1.511	2.443	10.1	19.6
3 12	9 5.01	+ 8 2.4	1.561	2.435	13.9	19.8

317001 2001 PP_{34} 2 8.5 178°.22 3°.0/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.33	+ 3 54.5	2.377	3.117	13.7	21.3
1 12	9 46.64	+ 3 56.0	2.281	3.119	11.1	21.1
1 22	9 39.99	+ 4 12.0	2.207	3.120	8.0	21.0
2 1	9 31.87	+ 4 41.6	2.161	3.121	4.9	20.8
2 11	9 23.02	+ 5 22.2	2.144	3.121	3.0	20.6
2 21	9 14.28	+ 6 9.6	2.157	3.121	4.9	20.8
3 2	9 6.52	+ 6 59.3	2.200	3.120	8.1	20.9
3 12	9 0.43	+ 7 47.0	2.268	3.118	11.1	21.1

427187 2014 VZ_{12} 2 8.5 130°.43 1°.1/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.31	+15 27.7	2.279	3.059	13.0	22.2
1 12	9 48.17	+16 12.2	2.204	3.076	10.0	22.0
1 22	9 40.97	+17 5.4	2.154	3.093	6.5	21.8
2 1	9 32.26	+18 2.4	2.132	3.109	2.8	21.6
2 11	9 22.90	+18 57.9	2.140	3.124	1.7	21.5
2 21	9 13.82	+19 46.7	2.179	3.138	5.3	21.8
3 2	9 5.90	+20 25.4	2.247	3.152	8.7	22.0
3 12	8 59.84	+20 52.2	2.341	3.165	11.7	22.3

106227 2000 UA_{40} 2 8.5 121°.51 0°.7/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.69	+14 32.3	1.892	2.677	15.1	20.8
1 12	9 50.37	+15 5.9	1.821	2.695	11.7	20.6
1 22	9 42.58	+15 50.1	1.773	2.712	7.7	20.4
2 1	9 33.00	+16 39.9	1.752	2.729	3.3	20.1
2 11	9 22.66	+17 29.1	1.760	2.745	1.6	20.0
2 21	9 12.69	+18 12.2	1.799	2.761	5.9	20.3
3 2	9 4.19	+18 45.1	1.865	2.775	9.9	20.6
3 12	8 57.94	+19 6.0	1.955	2.789	13.3	20.9

140660 2001 UH_{42} 2 8.5 237°.57 7°.6/16.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.08	−13 19.0	2.805	3.439	13.9	20.5
1 12	9 43.24	−13 49.2	2.693	3.427	12.4	20.4
1 22	9 37.71	−14 0.1	2.600	3.415	10.6	20.2
2 1	9 30.88	−13 49.1	2.530	3.402	8.9	20.1
2 11	9 23.34	−13 15.6	2.485	3.389	7.8	20.0
2 21	9 15.80	−12 21.4	2.468	3.376	7.8	20.0
3 2	9 8.98	−11 10.4	2.478	3.363	8.9	20.0
3 12	9 3.53	− 9 48.4	2.514	3.349	10.7	20.1

170054 2002 VM_{68} 2 8.5 133°.96 0°.4/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.56	+13 8.1	2.515	3.286	12.2	20.3
1 12	9 46.64	+13 11.5	2.429	3.295	9.5	20.1
1 22	9 39.87	+13 22.6	2.368	3.303	6.3	20.0
2 1	9 31.77	+13 39.1	2.335	3.310	2.8	19.7
2 11	9 23.08	+13 57.6	2.332	3.318	0.9	19.6
2 21	9 14.60	+14 15.2	2.359	3.325	4.4	19.9
3 2	9 7.12	+14 29.1	2.416	3.331	7.7	20.1
3 12	9 1.27	+14 37.4	2.500	3.338	10.6	20.3

493467 2014 WA_{486} 2 8.5 97°.36 3°.6/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.28	+21 22.4	2.038	2.837	13.7	21.2
1 12	9 48.45	+22 43.3	1.978	2.861	10.4	21.0
1 22	9 41.28	+24 9.8	1.943	2.884	7.0	20.9
2 1	9 32.43	+25 34.1	1.935	2.907	4.0	20.7
2 11	9 22.87	+26 48.6	1.958	2.929	4.3	20.8
2 21	9 13.68	+27 47.4	2.010	2.950	7.2	21.0
3 2	9 5.86	+28 27.4	2.090	2.971	10.4	21.2
3 12	9 0.16	+28 48.8	2.193	2.992	13.2	21.5

150777 2001 QW_{263} 2 8.5 132.°00 1.°9/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.89	+18 54.7	2.444	3.227	12.1	21.5
1 12	9 48.49	+19 40.4	2.371	3.245	9.3	21.3
1 22	9 41.12	+20 31.6	2.323	3.262	6.1	21.2
2 1	9 32.32	+21 23.5	2.303	3.279	2.9	21.0
2 11	9 22.91	+22 10.9	2.315	3.294	2.5	21.0
2 21	9 13.78	+22 49.4	2.357	3.309	5.5	21.2
3 2	9 5.78	+23 16.4	2.429	3.323	8.6	21.4
3 12	8 59.57	+23 31.0	2.525	3.336	11.4	21.6

384236 2009 DC_{58} 2 8.5 344.°30 1.°7/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.15	+18 33.8	2.181	2.979	12.9	21.2
1 12	9 45.24	+19 2.2	2.094	2.977	10.0	21.0
1 22	9 39.19	+19 37.1	2.031	2.974	6.6	20.8
2 1	9 31.56	+20 14.1	1.995	2.972	3.0	20.6
2 11	9 23.16	+20 48.2	1.988	2.970	2.3	20.5
2 21	9 14.95	+21 15.0	2.011	2.968	5.8	20.7
3 2	9 7.86	+21 31.5	2.060	2.967	9.3	20.9
3 12	9 2.62	+21 36.4	2.135	2.965	12.4	21.1

204633 2005 YD_{65} 2 8.5 289.°61 1.°6/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.73	+15 38.3	1.448	2.260	17.6	20.8
1 12	9 48.48	+16 14.5	1.358	2.247	13.8	20.5
1 22	9 42.06	+17 5.4	1.289	2.235	9.2	20.2
2 1	9 33.05	+18 5.3	1.244	2.222	4.0	19.9
2 11	9 22.62	+19 5.6	1.225	2.209	2.5	19.7
2 21	9 12.26	+19 58.0	1.233	2.197	7.7	20.0
3 2	9 3.53	+20 35.9	1.267	2.185	12.9	20.3
3 12	8 57.64	+20 56.5	1.321	2.172	17.4	20.5

426980 2014 AH_{37} 2 8.5 150.°32 0.°7/ 7.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.35	+14 50.5	3.005	3.780	10.3	22.0
1 12	9 43.95	+15 34.1	2.920	3.789	7.9	21.9
1 22	9 38.01	+16 24.8	2.860	3.798	5.2	21.7
2 1	9 30.95	+17 19.3	2.829	3.806	2.2	21.5
2 11	9 23.38	+18 13.5	2.830	3.814	1.2	21.4
2 21	9 15.94	+19 3.6	2.862	3.821	4.1	21.7
3 2	9 9.28	+19 46.5	2.924	3.828	7.0	21.9
3 12	9 3.95	+20 20.4	3.013	3.834	9.4	22.0

110086 2001 ST_{117} 2 8.5 349.°45 2.°1/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.34	+20 29.5	1.540	2.350	16.9	18.8
1 12	9 51.68	+20 23.3	1.459	2.346	13.1	18.5
1 22	9 43.89	+20 21.5	1.398	2.343	8.7	18.3
2 1	9 33.72	+20 19.0	1.363	2.340	4.0	18.0
2 11	9 22.44	+20 10.6	1.355	2.338	2.8	17.9
2 21	9 11.55	+19 52.6	1.375	2.337	7.3	18.2
3 2	9 2.46	+19 23.8	1.420	2.335	12.0	18.4
3 12	8 56.20	+18 44.7	1.488	2.335	16.0	18.7

373722 2002 SR_{5} 2 8.5 49.°23 0.°7/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.88	+14 17.2	1.778	2.573	15.5	20.8
1 12	9 47.37	+14 52.3	1.728	2.607	11.9	20.6
1 22	9 40.51	+15 37.9	1.700	2.642	7.7	20.4
2 1	9 32.05	+16 28.7	1.698	2.676	3.3	20.2
2 11	9 23.05	+17 18.5	1.726	2.711	1.5	20.1
2 21	9 14.58	+18 1.8	1.782	2.745	5.7	20.5
3 2	9 7.63	+18 34.7	1.865	2.780	9.6	20.8
3 12	9 2.87	+18 55.6	1.972	2.815	12.8	21.1

159929 2005 UK 2 8.5 311.°67 33.°2/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.51	−64 54.7	1.582	1.791	33.2	21.2
1 12	9 54.40	−68 58.3	1.510	1.738	34.4	21.0
1 22	9 51.65	−72 36.8	1.435	1.683	35.7	20.9
2 1	9 40.60	−75 42.6	1.354	1.627	37.2	20.7
2 11	9 18.59	−78 5.5	1.267	1.572	38.9	20.5
2 21	8 45.49	−79 33.6	1.170	1.516	40.7	20.3
3 2	8 8.90	−79 56.6	1.065	1.460	42.7	20.1
3 12	7 42.64	−79 14.5	0.951	1.406	44.9	19.8

367538 2009 RB_{13} 2 8.5 104.°71 0.°9/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.19	+15 46.1	2.160	2.944	13.5	22.5
1 12	9 48.14	+16 17.6	2.090	2.964	10.4	22.3
1 22	9 40.96	+16 57.2	2.044	2.984	6.8	22.1
2 1	9 32.28	+17 40.5	2.026	3.003	2.9	21.9
2 11	9 22.97	+18 22.2	2.038	3.022	1.6	21.9
2 21	9 14.00	+18 58.0	2.080	3.040	5.3	22.1
3 2	9 6.28	+19 24.5	2.150	3.058	8.9	22.4
3 12	9 0.51	+19 40.2	2.245	3.076	11.9	22.6

329789 2004 PV_{31} 2 8.5 254.°41 2.°6/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.87	+21 35.3	2.067	2.861	13.7	20.8
1 12	9 50.69	+21 52.4	1.969	2.848	10.7	20.6
1 22	9 42.97	+22 13.3	1.894	2.835	7.1	20.4
2 1	9 33.29	+22 33.1	1.847	2.822	3.6	20.1
2 11	9 22.61	+22 46.4	1.829	2.808	3.1	20.1
2 21	9 12.07	+22 49.3	1.841	2.795	6.6	20.3
3 2	9 2.83	+22 39.7	1.881	2.781	10.4	20.5
3 12	8 55.79	+22 17.8	1.944	2.766	13.8	20.6

135128 2001 QW_{162} 2 8.5 146.°00 0.°6/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.48	+12 6.2	2.436	3.208	12.5	20.2
1 12	9 45.92	+12 10.0	2.346	3.211	9.8	20.0
1 22	9 39.48	+12 22.6	2.281	3.215	6.6	19.8
2 1	9 31.65	+12 41.6	2.243	3.218	3.1	19.6
2 11	9 23.18	+13 3.9	2.235	3.221	1.0	19.4
2 21	9 14.88	+13 26.1	2.257	3.224	4.5	19.7
3 2	9 7.58	+13 45.2	2.309	3.226	7.9	19.9
3 12	9 1.93	+13 58.8	2.386	3.229	10.9	20.1

421283 2013 TQ 2 8.5 336.°35 8.°3/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.06	− 3 7.9	1.743	2.474	18.2	19.7
1 12	9 47.26	− 4 28.1	1.651	2.467	15.6	19.5
1 22	9 40.88	− 5 29.8	1.577	2.460	12.7	19.3
2 1	9 32.44	− 6 8.9	1.526	2.454	9.9	19.1
2 11	9 22.88	− 6 23.6	1.501	2.448	8.3	19.0
2 21	9 13.39	− 6 14.9	1.501	2.443	9.1	19.0
3 2	9 5.16	− 5 47.2	1.527	2.438	11.6	19.2
3 12	8 59.17	− 5 7.5	1.575	2.434	14.7	19.3

257020 2008 FJ_{17} 2 8.5 38.°66 0.°9/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.39	+14 21.8	1.587	2.393	16.6	21.1
1 12	9 46.89	+14 59.7	1.512	2.398	12.9	20.9
1 22	9 40.64	+15 51.2	1.459	2.403	8.5	20.6
2 1	9 32.30	+16 50.8	1.431	2.409	3.6	20.3
2 11	9 22.98	+17 51.0	1.430	2.415	1.9	20.2
2 21	9 13.96	+18 44.5	1.457	2.421	6.7	20.5
3 2	9 6.49	+19 25.9	1.509	2.428	11.2	20.8
3 12	9 1.49	+19 52.3	1.585	2.434	15.1	21.1

495410 2014 RO_{19} 2 8.5 155.°59 1.°6/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.69	+ 5 28.7	1.956	2.718	15.5	21.7
1 12	9 46.61	+ 6 20.7	1.869	2.724	12.3	21.5
1 22	9 40.22	+ 7 32.6	1.803	2.730	8.6	21.2
2 1	9 32.08	+ 9 1.0	1.764	2.735	4.4	21.0
2 11	9 23.06	+10 39.4	1.755	2.739	1.7	20.8
2 21	9 14.19	+12 19.8	1.776	2.744	5.3	21.1
3 2	9 6.50	+13 54.6	1.826	2.747	9.4	21.3
3 12	9 0.82	+15 17.5	1.902	2.750	13.0	21.6

424058 2007 BL_{102} 2 8.5 302.°95 3.°0/ 6.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.92	+20 55.3	1.772	2.581	15.0	21.2
1 12	9 48.08	+21 29.1	1.679	2.567	11.7	21.0
1 22	9 41.50	+22 9.7	1.608	2.553	7.8	20.7
2 1	9 32.73	+22 51.1	1.564	2.539	4.0	20.5
2 11	9 22.83	+23 26.2	1.547	2.526	3.7	20.4
2 21	9 13.04	+23 49.2	1.558	2.512	7.5	20.6
3 2	9 4.66	+23 56.9	1.595	2.499	11.7	20.8
3 12	8 58.70	+23 48.5	1.654	2.486	15.4	21.0

236900 2007 TB_{31} 2 8.5 253.°73 0.°7/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.64	+10 58.6	2.422	3.194	12.6	21.4
1 12	9 44.66	+11 14.5	2.320	3.185	9.9	21.2
1 22	9 38.76	+11 41.1	2.241	3.175	6.7	21.0
2 1	9 31.40	+12 15.9	2.190	3.165	3.2	20.7
2 11	9 23.29	+12 55.3	2.169	3.155	1.0	20.5
2 21	9 15.24	+13 35.2	2.178	3.145	4.6	20.8
3 2	9 8.10	+14 11.6	2.216	3.134	8.1	21.0
3 12	9 2.56	+14 41.6	2.279	3.124	11.3	21.2

164666 1996 TB_{30} 2 8.5 190.°80 0.°9/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.46	+15 20.7	2.073	2.856	14.0	21.6
1 12	9 49.48	+15 54.0	1.981	2.855	10.9	21.3
1 22	9 42.11	+16 37.1	1.913	2.853	7.2	21.1
2 1	9 32.91	+17 25.6	1.873	2.850	3.1	20.9
2 11	9 22.79	+18 13.8	1.863	2.847	1.7	20.7
2 21	9 12.83	+18 56.2	1.882	2.843	5.8	21.0
3 2	9 4.08	+19 28.9	1.930	2.838	9.7	21.2
3 12	8 57.40	+19 49.6	2.003	2.833	13.2	21.4

426181 2012 JE_{21} 2 8.5 258.°90 1.°5/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.07	+10 32.2	2.233	2.998	13.7	21.5
1 12	9 49.13	+10 21.0	2.119	2.977	10.9	21.3
1 22	9 41.90	+10 19.5	2.027	2.956	7.6	21.0
2 1	9 32.86	+10 26.3	1.962	2.934	3.8	20.8
2 11	9 22.79	+10 38.8	1.927	2.912	1.6	20.6
2 21	9 12.68	+10 53.7	1.923	2.889	5.1	20.8
3 2	9 3.56	+11 7.7	1.947	2.866	9.1	20.9
3 12	8 56.31	+11 18.1	1.998	2.842	12.6	21.1

176678 2002 PX_{63} 2 8.5 96.°35 3.°4/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.14	+ 3 42.0	1.948	2.695	16.0	20.7
1 12	9 48.98	+ 3 42.1	1.880	2.722	12.9	20.5
1 22	9 41.58	+ 3 59.5	1.833	2.748	9.3	20.3
2 1	9 32.58	+ 4 32.7	1.813	2.774	5.5	20.2
2 11	9 22.95	+ 5 17.9	1.821	2.799	3.4	20.1
2 21	9 13.71	+ 6 9.9	1.859	2.823	5.4	20.2
3 2	9 5.82	+ 7 3.0	1.925	2.847	8.9	20.5
3 12	9 0.00	+ 7 52.4	2.016	2.870	12.1	20.7

209142 2003 SG_{274} 2 8.5 77°.18 2°.2/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.05	+ 6 28.5	1.587	2.367	17.8	20.2
1 12	9 47.26	+ 6 49.5	1.515	2.380	14.1	20.0
1 22	9 40.81	+ 7 30.5	1.463	2.394	9.8	19.8
2 1	9 32.36	+ 8 28.5	1.436	2.407	5.2	19.5
2 11	9 23.01	+ 9 37.4	1.437	2.421	2.3	19.4
2 21	9 14.00	+10 49.5	1.465	2.434	5.9	19.6
3 2	9 6.53	+11 57.4	1.520	2.448	10.4	19.9
3 12	9 1.46	+12 55.4	1.599	2.461	14.3	20.2

362416 2010 PK_{57} 2 8.5 247°.04 0°.4/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.55	+11 34.6	1.844	2.628	15.5	21.5
1 12	9 48.41	+11 56.1	1.743	2.615	12.2	21.2
1 22	9 41.66	+12 31.6	1.664	2.601	8.3	21.0
2 1	9 32.82	+13 18.1	1.611	2.587	3.8	20.7
2 11	9 22.82	+14 10.2	1.586	2.572	1.2	20.4
2 21	9 12.84	+15 1.5	1.590	2.557	5.9	20.7
3 2	9 4.08	+15 46.6	1.622	2.541	10.5	20.9
3 12	8 57.55	+16 21.4	1.678	2.525	14.5	21.2

521099 2015 DT_{243} 2 8.5 298°.77 6°.1/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.83	− 2 32.0	2.335	3.048	14.6	21.1
1 12	9 45.64	− 3 24.9	2.232	3.039	12.4	20.9
1 22	9 39.47	− 4 2.6	2.150	3.030	9.9	20.7
2 1	9 31.75	− 4 23.2	2.093	3.022	7.5	20.5
2 11	9 23.21	− 4 26.2	2.063	3.013	6.1	20.4
2 21	9 14.71	− 4 13.2	2.062	3.005	6.8	20.5
3 2	9 7.11	− 3 47.6	2.088	2.997	9.1	20.6
3 12	9 1.17	− 3 14.2	2.139	2.989	11.7	20.7

350951 2002 WN_{18} 2 8.5 57°.01 4°.8/11.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.30	+ 4 37.6	1.183	1.971	22.2	20.6
1 12	9 51.83	+ 4 3.1	1.131	1.997	17.9	20.4
1 22	9 44.01	+ 3 52.2	1.097	2.023	12.9	20.2
2 1	9 33.76	+ 4 4.6	1.085	2.049	7.8	20.0
2 11	9 22.60	+ 4 36.0	1.097	2.075	4.8	19.9
2 21	9 12.21	+ 5 19.3	1.135	2.102	7.6	20.1
3 2	9 4.01	+ 6 6.4	1.197	2.129	12.1	20.5
3 12	8 58.95	+ 6 50.0	1.281	2.155	16.3	20.8

374376 2005 UV_{382} 2 8.5 325°.21 2°.9/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.16	+ 6 35.0	1.522	2.314	17.8	20.3
1 12	9 43.95	+ 6 33.1	1.423	2.295	14.5	20.0
1 22	9 38.98	+ 6 50.9	1.343	2.275	10.3	19.7
2 1	9 31.73	+ 7 27.8	1.287	2.257	5.8	19.4
2 11	9 23.19	+ 8 20.0	1.256	2.239	3.0	19.1
2 21	9 14.62	+ 9 20.9	1.252	2.222	6.5	19.3
3 2	9 7.37	+10 22.9	1.272	2.206	11.4	19.5
3 12	9 2.57	+11 18.8	1.315	2.191	15.9	19.8

296003 2008 YU_{101} 2 8.5 137°.71 1°.2/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.62	+ 9 50.7	1.827	2.602	16.0	21.4
1 12	9 49.72	+10 3.8	1.748	2.612	12.6	21.1
1 22	9 42.30	+10 31.2	1.690	2.623	8.6	20.9
2 1	9 33.00	+11 9.8	1.658	2.632	4.1	20.7
2 11	9 22.82	+11 54.5	1.656	2.641	1.5	20.5
2 21	9 12.94	+12 39.9	1.682	2.649	5.6	20.8
3 2	9 4.47	+13 20.7	1.737	2.657	9.8	21.1
3 12	8 58.26	+13 53.3	1.816	2.665	13.5	21.3

53303 1999 GF_{45} 2 8.5 182°.38 3°.5/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.44	+23 31.4	2.440	3.240	11.7	19.1
1 12	9 45.34	+24 33.0	2.358	3.240	9.0	18.9
1 22	9 39.24	+25 38.4	2.300	3.240	6.1	18.7
2 1	9 31.62	+26 41.9	2.272	3.240	3.8	18.6
2 11	9 23.28	+27 37.4	2.272	3.240	4.1	18.6
2 21	9 15.09	+28 20.3	2.303	3.240	6.6	18.8
3 2	9 7.93	+28 47.9	2.360	3.239	9.5	18.9
3 12	9 2.50	+28 59.7	2.442	3.239	12.1	19.1

220582 2004 JU_{22} 2 8.5 304°.26 2°.7/10.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.31	+ 7 26.0	1.647	2.431	17.1	20.7
1 12	9 46.26	+ 7 17.4	1.540	2.408	13.8	20.4
1 22	9 40.47	+ 7 25.6	1.454	2.385	9.9	20.1
2 1	9 32.39	+ 7 50.0	1.392	2.362	5.5	19.8
2 11	9 22.98	+ 8 27.5	1.357	2.340	2.8	19.6
2 21	9 13.46	+ 9 12.6	1.348	2.317	6.4	19.8
3 2	9 5.19	+ 9 59.2	1.366	2.295	11.1	20.0
3 12	8 59.28	+10 41.3	1.406	2.274	15.6	20.2

417107 2005 UD_{396} 2 8.5 46°.53 7°.8/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.40	− 6 0.9	1.676	2.400	19.1	20.4
1 12	9 45.08	− 6 34.7	1.604	2.414	16.3	20.2
1 22	9 39.30	− 6 42.3	1.550	2.429	13.1	20.0
2 1	9 31.70	− 6 21.4	1.518	2.444	10.0	19.9
2 11	9 23.27	− 5 33.7	1.510	2.460	7.9	19.8
2 21	9 15.13	− 4 24.1	1.528	2.476	8.3	19.9
3 2	9 8.38	− 3 0.8	1.573	2.492	10.7	20.0
3 12	9 3.82	− 1 33.0	1.641	2.509	13.7	20.3

464071 2014 WR_{271} 2 8.5 71°.24 1°.9/ 7.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.45	+16 49.7	1.816	2.619	15.0	21.5
1 12	9 46.63	+17 42.1	1.740	2.625	11.5	21.3
1 22	9 40.34	+18 45.1	1.687	2.632	7.5	21.1
2 1	9 32.16	+19 52.5	1.661	2.638	3.4	20.8
2 11	9 23.11	+20 57.0	1.663	2.645	2.7	20.8
2 21	9 14.33	+21 51.9	1.694	2.651	6.6	21.1
3 2	9 6.91	+22 32.6	1.751	2.658	10.6	21.3
3 12	9 1.72	+22 57.3	1.832	2.665	14.1	21.5

288656 2004 PR_{54} 2 8.5 213°.45 0°.7/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.74	+15 36.0	1.748	2.539	16.0	21.0
1 12	9 51.72	+15 48.3	1.657	2.534	12.5	20.8
1 22	9 43.87	+16 10.4	1.588	2.528	8.3	20.5
2 1	9 33.78	+16 38.2	1.544	2.522	3.6	20.2
2 11	9 22.56	+17 6.0	1.530	2.515	1.6	20.0
2 21	9 11.51	+17 28.6	1.544	2.508	6.4	20.3
3 2	9 1.96	+17 42.1	1.585	2.500	11.0	20.6
3 12	8 54.90	+17 44.7	1.651	2.492	15.0	20.8

430479 2001 SY_{139} 2 8.5 118°.89 5°.0/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.23	− 5 53.8	2.804	3.489	13.0	21.5
1 12	9 43.16	− 5 50.5	2.717	3.504	11.0	21.4
1 22	9 37.54	− 5 29.6	2.651	3.519	8.7	21.2
2 1	9 30.81	− 4 50.9	2.611	3.534	6.5	21.1
2 11	9 23.58	− 3 56.4	2.599	3.548	5.1	21.0
2 21	9 16.51	− 2 49.5	2.616	3.562	5.4	21.1
3 2	9 10.23	− 1 35.0	2.663	3.576	7.2	21.2
3 12	9 5.31	− 0 18.3	2.738	3.589	9.4	21.4

218756 2005 VH_{77} 2 8.5 215°.11 0°.6/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.30	+10 29.0	2.483	3.247	12.5	21.6
1 12	9 46.69	+10 55.8	2.378	3.238	9.9	21.4
1 22	9 40.12	+11 34.0	2.296	3.228	6.7	21.2
2 1	9 32.04	+12 21.0	2.243	3.217	3.1	20.9
2 11	9 23.15	+13 12.7	2.220	3.206	1.0	20.7
2 21	9 14.30	+14 4.6	2.229	3.194	4.6	21.0
3 2	9 6.34	+14 52.2	2.267	3.181	8.1	21.2
3 12	9 0.00	+15 32.4	2.331	3.168	11.3	21.3

55287 2001 SC_{24} 2 8.5 349°.71 1°.3/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.42	+ 9 53.7	1.541	2.340	17.4	19.1
1 12	9 45.51	+10 5.8	1.457	2.335	13.8	18.8
1 22	9 39.86	+10 34.9	1.393	2.332	9.4	18.6
2 1	9 32.05	+11 18.2	1.354	2.329	4.6	18.3
2 11	9 23.15	+12 10.0	1.341	2.327	1.6	18.1
2 21	9 14.44	+13 3.5	1.355	2.325	6.2	18.4
3 2	9 7.19	+13 52.1	1.395	2.324	11.0	18.6
3 12	9 2.41	+14 30.6	1.457	2.323	15.2	18.9

165936 2001 UK_{30} 2 8.5 47°.75 9°.2/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.58	+40 20.3	2.031	2.829	13.7	19.4
1 12	9 50.79	+41 49.2	1.985	2.844	11.6	19.3
1 22	9 43.11	+43 8.0	1.963	2.859	9.9	19.2
2 1	9 33.35	+44 7.4	1.966	2.874	9.2	19.2
2 11	9 22.76	+44 40.2	1.995	2.890	10.0	19.2
2 21	9 12.73	+44 43.8	2.049	2.905	11.6	19.4
3 2	9 4.49	+44 19.6	2.125	2.921	13.6	19.5
3 12	8 58.91	+43 32.0	2.221	2.937	15.5	19.7

432206 2009 DR_{107} 2 8.5 329°.35 3°.7/ 5.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.60	+21 15.4	1.906	2.722	13.9	20.8
1 12	9 43.81	+22 26.5	1.816	2.708	10.7	20.5
1 22	9 38.61	+23 46.3	1.749	2.695	7.2	20.3
2 1	9 31.48	+25 7.8	1.709	2.682	4.2	20.1
2 11	9 23.33	+26 22.6	1.697	2.670	4.5	20.1
2 21	9 15.25	+27 23.6	1.713	2.658	7.8	20.2
3 2	9 8.37	+28 6.1	1.755	2.647	11.5	20.4
3 12	9 3.61	+28 28.4	1.819	2.636	14.8	20.6

461704 2005 SL_{17} 2 8.5 151°.00 1°.6/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.77	+18 0.7	2.250	3.036	13.0	22.0
1 12	9 48.67	+18 32.8	2.169	3.044	10.0	21.8
1 22	9 41.41	+19 11.4	2.111	3.052	6.6	21.6
2 1	9 32.57	+19 51.9	2.082	3.059	3.0	21.4
2 11	9 23.01	+20 29.4	2.083	3.065	2.2	21.4
2 21	9 13.69	+20 59.3	2.114	3.071	5.6	21.6
3 2	9 5.56	+21 18.8	2.174	3.077	9.1	21.8
3 12	8 59.34	+21 26.9	2.259	3.082	12.1	22.0

368620 2004 TG_{58} 2 8.5 118°.05 1°.4/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.33	+ 8 44.7	2.144	2.912	14.1	21.7
1 12	9 46.06	+ 9 1.5	2.061	2.922	11.1	21.5
1 22	9 39.72	+ 9 31.5	2.001	2.931	7.6	21.3
2 1	9 31.84	+10 12.3	1.968	2.940	3.8	21.1
2 11	9 23.25	+10 59.5	1.964	2.949	1.5	20.9
2 21	9 14.89	+11 48.2	1.990	2.958	4.8	21.2
3 2	9 7.64	+12 33.9	2.045	2.966	8.5	21.4
3 12	9 2.22	+13 12.8	2.125	2.974	11.8	21.6

315474 2007 YR_{15} 2 8.5 57°.07 0°.4/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.27	+14 15.9	1.501	2.305	17.5	21.3
1 12	9 49.17	+14 33.0	1.432	2.316	13.6	21.1
1 22	9 42.17	+15 2.7	1.385	2.328	9.0	20.8
2 1	9 32.99	+15 40.1	1.362	2.340	3.9	20.6
2 11	9 22.88	+16 18.8	1.366	2.352	1.5	20.4
2 21	9 13.20	+16 52.5	1.398	2.364	6.6	20.8
3 2	9 5.26	+17 16.6	1.455	2.376	11.3	21.1
3 12	8 59.97	+17 28.7	1.535	2.389	15.2	21.4

107218 2001 BG_{46} 2 8.5 90°.20 4°.2/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.15	+ 1 2.6	1.678	2.431	18.0	19.9
1 12	9 47.17	+ 1 16.5	1.605	2.449	14.7	19.7
1 22	9 40.67	+ 1 53.8	1.553	2.466	10.8	19.5
2 1	9 32.31	+ 2 53.2	1.524	2.483	6.7	19.3
2 11	9 23.11	+ 4 9.5	1.523	2.499	4.2	19.2
2 21	9 14.24	+ 5 35.4	1.550	2.515	6.1	19.3
3 2	9 6.81	+ 7 2.4	1.604	2.532	9.9	19.6
3 12	9 1.65	+ 8 23.1	1.683	2.547	13.6	19.8

88819 2001 SP_{153} 2 8.5 97°.39 1°.1/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.17	+10 0.6	1.852	2.633	15.5	19.5
1 12	9 47.07	+10 14.2	1.771	2.640	12.2	19.3
1 22	9 40.57	+10 41.9	1.711	2.646	8.3	19.1
2 1	9 32.26	+11 20.7	1.678	2.652	4.0	18.8
2 11	9 23.11	+12 5.7	1.672	2.658	1.4	18.6
2 21	9 14.21	+12 51.5	1.696	2.664	5.4	18.9
3 2	9 6.61	+13 33.0	1.747	2.670	9.6	19.2
3 12	9 1.14	+14 6.3	1.822	2.675	13.2	19.4

431473 2007 SO_{2} 2 8.5 60°.06 7°.9/17.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.72	−13 53.3	2.168	2.822	17.1	20.8
1 12	9 43.25	−13 45.8	2.089	2.841	15.0	20.7
1 22	9 37.83	−13 10.5	2.028	2.860	12.5	20.6
2 1	9 31.00	−12 5.9	1.989	2.879	10.1	20.4
2 11	9 23.54	−10 34.0	1.975	2.899	8.3	20.4
2 21	9 16.33	− 8 40.4	1.989	2.918	8.0	20.4
3 2	9 10.20	− 6 33.1	2.031	2.938	9.4	20.5
3 12	9 5.80	− 4 21.6	2.100	2.957	11.6	20.7

426036 2011 SN_{47} 2 8.5 290°.58 1°.3/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.55	+17 54.1	2.387	3.178	12.2	21.0
1 12	9 45.44	+18 14.9	2.289	3.168	9.4	20.8
1 22	9 39.33	+18 41.9	2.216	3.158	6.2	20.6
2 1	9 31.69	+19 11.4	2.171	3.148	2.8	20.4
2 11	9 23.30	+19 39.1	2.154	3.137	1.9	20.3
2 21	9 15.01	+20 1.1	2.168	3.127	5.3	20.5
3 2	9 7.71	+20 14.6	2.210	3.118	8.7	20.7
3 12	9 2.12	+20 18.2	2.277	3.108	11.8	20.9

339574 2005 LR_{23} 2 8.5 241°.70 1°.1/ 7.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.08	+16 17.8	2.412	3.200	12.2	21.4
1 12	9 45.03	+16 50.0	2.318	3.194	9.4	21.2
1 22	9 39.04	+17 30.0	2.248	3.189	6.2	21.0
2 1	9 31.57	+18 14.1	2.205	3.183	2.7	20.7
2 11	9 23.36	+18 57.5	2.193	3.177	1.7	20.6
2 21	9 15.26	+19 35.8	2.211	3.171	5.1	20.9
3 2	9 8.13	+20 5.6	2.257	3.165	8.5	21.1
3 12	9 2.65	+20 25.0	2.328	3.158	11.6	21.2

420925 2013 NA_{17} 2 8.5 271°.81 2°.3/10.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.36	+ 7 24.7	1.847	2.621	15.8	22.4
1 12	9 46.65	+ 7 27.6	1.747	2.609	12.7	22.1
1 22	9 40.47	+ 7 46.5	1.668	2.596	9.0	21.9
2 1	9 32.32	+ 8 20.0	1.614	2.584	4.9	21.6
2 11	9 23.09	+ 9 4.3	1.589	2.572	2.3	21.4
2 21	9 13.89	+ 9 54.0	1.591	2.559	5.7	21.6
3 2	9 5.87	+10 43.4	1.621	2.547	10.0	21.8
3 12	8 59.98	+11 27.3	1.675	2.534	13.9	22.0

95816 2003 FR_{74} 2 8.5 269°.70 3°.6/ 6.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.18	+19 18.8	1.527	2.342	16.7	20.1
1 12	9 48.75	+20 27.3	1.441	2.333	13.0	19.8
1 22	9 42.23	+21 48.4	1.377	2.324	8.7	19.5
2 1	9 33.19	+23 13.7	1.339	2.314	4.5	19.3
2 11	9 22.79	+24 32.9	1.328	2.305	4.5	19.2
2 21	9 12.51	+25 36.6	1.344	2.295	8.8	19.4
3 2	9 3.83	+26 19.0	1.385	2.286	13.3	19.7
3 12	8 57.92	+26 38.6	1.447	2.276	17.3	19.9

423734 2006 BM_{194} 2 8.5 27°.28 1°.1/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.35	+11 27.4	1.573	2.372	17.1	21.5
1 12	9 46.77	+11 25.1	1.502	2.381	13.4	21.2
1 22	9 40.52	+11 36.6	1.451	2.390	9.1	21.0
2 1	9 32.27	+11 58.8	1.425	2.401	4.3	20.8
2 11	9 23.15	+12 27.0	1.426	2.412	1.4	20.6
2 21	9 14.40	+12 55.7	1.454	2.423	6.0	20.9
3 2	9 7.20	+13 20.3	1.508	2.436	10.5	21.2
3 12	9 2.43	+13 37.3	1.585	2.449	14.3	21.5

52024 2002 OH_{4} 2 8.5 121°.54 3°.2/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.15	+ 4 2.3	2.440	3.181	13.3	19.0
1 12	9 45.65	+ 3 49.0	2.353	3.191	10.8	18.9
1 22	9 39.32	+ 3 49.0	2.288	3.200	7.9	18.7
2 1	9 31.65	+ 4 1.5	2.250	3.208	4.9	18.5
2 11	9 23.36	+ 4 24.4	2.241	3.217	3.2	18.4
2 21	9 15.25	+ 4 54.6	2.263	3.225	4.8	18.5
3 2	9 8.11	+ 5 28.3	2.313	3.233	7.7	18.7
3 12	9 2.56	+ 6 1.5	2.389	3.241	10.5	18.9

385877 2006 SO_{16} 2 8.5 197°.38 0°.3/ 8.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.37	+14 58.1	3.085	3.854	10.2	21.9
1 12	9 45.52	+15 12.1	2.985	3.851	7.9	21.8
1 22	9 39.10	+15 31.9	2.911	3.847	5.2	21.6
2 1	9 31.53	+15 55.0	2.866	3.842	2.3	21.4
2 11	9 23.40	+16 18.6	2.852	3.837	0.9	21.2
2 21	9 15.36	+16 39.8	2.869	3.831	3.9	21.5
3 2	9 8.09	+16 56.4	2.917	3.825	6.8	21.6
3 12	9 2.13	+17 6.7	2.992	3.819	9.3	21.8

159009 2004 TT_{7} 2 8.5 97°.46 5°.3/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.88	+29 12.6	2.168	2.966	13.0	20.2
1 12	9 51.16	+30 11.6	2.113	2.989	10.2	20.1
1 22	9 43.05	+31 8.7	2.081	3.011	7.4	19.9
2 1	9 33.27	+31 56.8	2.077	3.033	5.4	19.8
2 11	9 22.86	+32 29.6	2.103	3.055	5.8	19.9
2 21	9 12.93	+32 43.8	2.156	3.076	8.1	20.1
3 2	9 4.50	+32 38.8	2.237	3.097	10.7	20.3
3 12	8 58.29	+32 16.8	2.341	3.117	13.2	20.5

153037 2000 PZ_{25} 2 8.5 109°.49 6°.5/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.89	− 5 44.1	2.222	2.918	15.7	20.0
1 12	9 46.39	− 6 13.6	2.142	2.934	13.3	19.9
1 22	9 39.89	− 6 23.0	2.081	2.950	10.7	19.7
2 1	9 31.92	− 6 10.8	2.045	2.966	8.2	19.6
2 11	9 23.29	− 5 38.2	2.036	2.981	6.6	19.5
2 21	9 14.88	− 4 48.7	2.055	2.996	7.0	19.6
3 2	9 7.55	− 3 47.5	2.101	3.011	9.0	19.7
3 12	9 1.98	− 2 41.0	2.174	3.025	11.5	19.9

196776 2003 SV_{180} 2 8.5 143°.08 0°.7/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.11	+10 55.3	2.225	2.999	13.5	21.0
1 12	9 45.87	+11 15.0	2.138	3.004	10.5	20.8
1 22	9 39.60	+11 46.1	2.074	3.008	7.1	20.6
2 1	9 31.82	+12 25.8	2.038	3.013	3.3	20.4
2 11	9 23.32	+13 9.9	2.031	3.017	1.0	20.2
2 21	9 14.99	+13 53.6	2.054	3.021	4.8	20.5
3 2	9 7.74	+14 32.8	2.105	3.024	8.4	20.7
3 12	9 2.25	+15 4.3	2.182	3.028	11.7	20.9

419948 2011 BY_{86} 2 8.5 68°.71 0°.1/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.09	+12 25.1	1.825	2.617	15.3	21.3
1 12	9 46.29	+12 59.0	1.749	2.625	11.9	21.1
1 22	9 40.08	+13 46.1	1.694	2.634	7.9	20.9
2 1	9 32.07	+14 42.2	1.666	2.643	3.5	20.7
2 11	9 23.24	+15 41.0	1.666	2.651	1.2	20.5
2 21	9 14.67	+16 36.2	1.694	2.660	5.7	20.8
3 2	9 7.43	+17 22.7	1.750	2.669	9.9	21.1
3 12	9 2.33	+17 57.1	1.830	2.678	13.4	21.3

315927 2008 SS_{150} 2 8.5 81°.96 18°.1/ 3.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 25.96	+50 10.9	1.081	1.870	23.8	19.9
1 12	10 17.64	+51 43.9	1.044	1.881	21.3	19.8
1 22	10 2.34	+52 50.1	1.023	1.892	19.1	19.7
2 1	9 41.91	+53 6.7	1.020	1.903	18.1	19.7
2 11	9 20.19	+52 19.7	1.037	1.913	18.5	19.7
2 21	9 1.27	+50 31.0	1.074	1.924	20.2	19.9
3 2	8 47.85	+47 55.4	1.130	1.935	22.6	20.1
3 12	8 40.69	+44 52.3	1.202	1.945	24.9	20.3

284358 2006 SX_{86} 2 8.5 172°.85 0°.2/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.43	+12 27.3	2.868	3.637	10.9	22.0
1 12	9 44.14	+12 49.6	2.775	3.640	8.5	21.8
1 22	9 38.24	+13 20.0	2.707	3.641	5.6	21.6
2 1	9 31.17	+13 56.0	2.667	3.643	2.5	21.4
2 11	9 23.55	+14 34.3	2.658	3.644	0.8	21.3
2 21	9 16.04	+15 11.4	2.680	3.645	4.0	21.5
3 2	9 9.33	+15 44.2	2.732	3.646	7.0	21.7
3 12	9 3.98	+16 10.4	2.810	3.646	9.6	21.9

27352 2000 DL_{74} 2 8.5 158°.32 0°.6/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.59	+15 4.3	1.937	2.717	15.0	19.1
1 12	9 51.95	+15 26.2	1.855	2.726	11.6	18.9
1 22	9 43.77	+15 57.6	1.796	2.734	7.7	18.7
2 1	9 33.69	+16 34.2	1.764	2.740	3.3	18.4
2 11	9 22.73	+17 10.5	1.761	2.746	1.5	18.3
2 21	9 12.05	+17 41.5	1.789	2.752	5.9	18.6
3 2	9 2.80	+18 3.5	1.845	2.756	10.0	18.9
3 12	8 55.82	+18 14.7	1.926	2.759	13.5	19.1

239421 2007 TA_{112} 2 8.5 273°.88 2°.3/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.86	+ 7 33.8	2.259	3.021	13.7	20.4
1 12	9 45.71	+ 7 23.1	2.161	3.016	10.9	20.2
1 22	9 39.53	+ 7 24.4	2.087	3.011	7.7	19.9
2 1	9 31.82	+ 7 36.5	2.038	3.006	4.3	19.7
2 11	9 23.33	+ 7 57.0	2.019	3.001	2.3	19.6
2 21	9 14.96	+ 8 22.5	2.029	2.996	4.8	19.7
3 2	9 7.57	+ 8 49.2	2.068	2.991	8.3	19.9
3 12	9 1.92	+ 9 13.6	2.132	2.986	11.6	20.1

93975 2000 XC_8 2 8.5 345°.86 5°.1/ 5.3 18

1 2	9 53.12	+26 13.9	1.729	2.544	15.1	17.9
1 12	9 49.06	+26 59.1	1.651	2.540	11.8	17.6
1 22	9 42.15	+27 46.3	1.596	2.537	8.3	17.4
2 1	9 33.05	+28 27.6	1.567	2.534	5.4	17.2
2 11	9 22.93	+28 55.5	1.564	2.531	5.7	17.2
2 21	9 13.13	+29 4.9	1.589	2.529	8.8	17.4
3 2	9 4.94	+28 54.0	1.639	2.527	12.4	17.6
3 12	8 59.32	+28 24.6	1.711	2.525	15.7	17.8

498300 2007 VW_{106} 2 8.5 165°.49 0°.2/ 8.3 17

1 2	9 49.44	+14 6.7	2.626	3.402	11.6	22.4
1 12	9 45.07	+14 29.3	2.536	3.405	9.0	22.2
1 22	9 38.93	+14 59.8	2.470	3.408	5.9	22.0
2 1	9 31.50	+15 35.1	2.433	3.410	2.6	21.8
2 11	9 23.45	+16 11.4	2.427	3.412	1.0	21.6
2 21	9 15.56	+16 45.1	2.450	3.414	4.4	21.9
3 2	9 8.56	+17 13.0	2.503	3.415	7.6	22.1
3 12	9 3.08	+17 33.2	2.583	3.417	10.4	22.3

412300 2013 JJ_{46} 2 8.5 161°.04 2°.9/11.0 18

1 2	9 50.96	+ 3 42.7	2.236	2.980	14.3	22.2
1 12	9 46.51	+ 3 54.7	2.145	2.986	11.6	22.0
1 22	9 40.03	+ 4 22.8	2.076	2.991	8.3	21.8
2 1	9 32.03	+ 5 5.9	2.034	2.996	5.0	21.6
2 11	9 23.28	+ 6 0.4	2.021	3.000	2.9	21.5
2 21	9 14.68	+ 7 1.3	2.038	3.004	5.0	21.7
3 2	9 7.12	+ 8 3.5	2.085	3.007	8.3	21.9
3 12	9 1.32	+ 9 1.7	2.157	3.009	11.5	22.1

503801 2017 GA_7 2 8.5 254°.56 3°.7/ 5.8 17

1 2	9 54.08	+21 7.7	1.840	2.644	14.8	22.4
1 12	9 49.85	+22 9.3	1.741	2.626	11.5	22.1
1 22	9 42.80	+23 20.0	1.665	2.608	7.8	21.8
2 1	9 33.44	+24 32.6	1.616	2.589	4.3	21.6
2 11	9 22.78	+25 38.3	1.596	2.570	4.4	21.6
2 21	9 12.09	+26 29.8	1.603	2.550	8.1	21.7
3 2	9 2.72	+27 2.3	1.638	2.529	12.2	21.9
3 12	8 55.77	+27 14.7	1.695	2.509	15.9	22.1

146689 2001 VB_{56} 2 8.5 110°.07 0°.4/ 8.9 18

1 2	9 53.56	+12 21.8	2.008	2.786	14.6	20.7
1 12	9 48.65	+12 32.8	1.931	2.800	11.4	20.5
1 22	9 41.48	+12 54.4	1.878	2.813	7.6	20.3
2 1	9 32.65	+13 23.5	1.851	2.827	3.4	20.0
2 11	9 23.10	+13 55.6	1.854	2.839	1.0	19.9
2 21	9 13.87	+14 26.3	1.886	2.852	5.2	20.2
3 2	9 5.93	+14 51.6	1.946	2.864	9.1	20.4
3 12	9 0.04	+15 9.2	2.032	2.876	12.4	20.7

124173 2001 OJ_{24} 2 8.5 174°.30 1°.6/ 9.6 18

1 2	9 55.44	+ 8 56.5	1.853	2.622	16.0	20.9
1 12	9 50.45	+ 9 4.2	1.764	2.625	12.7	20.7
1 22	9 42.90	+ 9 26.5	1.698	2.627	8.8	20.4
2 1	9 33.36	+10 1.2	1.657	2.629	4.4	20.2
2 11	9 22.86	+10 43.6	1.646	2.630	1.8	20.0
2 21	9 12.54	+11 28.3	1.663	2.631	5.6	20.3
3 2	9 3.58	+12 10.1	1.709	2.630	9.9	20.5
3 12	8 56.87	+12 44.8	1.780	2.629	13.7	20.7

164505 2006 GP_{44} 2 8.5 126°.81 5°.4/ 4.5 18

1 2	9 58.51	+27 35.0	1.994	2.792	14.0	20.3
1 12	9 52.71	+28 45.9	1.932	2.810	10.9	20.2
1 22	9 44.27	+29 57.1	1.894	2.827	7.8	20.0
2 1	9 33.89	+31 0.2	1.884	2.843	5.6	19.9
2 11	9 22.71	+31 47.6	1.902	2.858	6.0	19.9
2 21	9 11.97	+32 14.7	1.950	2.873	8.6	20.1
3 2	9 2.83	+32 20.4	2.024	2.887	11.6	20.3
3 12	8 56.13	+32 6.7	2.120	2.900	14.3	20.6

236096 2005 NM_{36} 2 8.5 201°.91 3°.5/12.1 18

1 2	9 46.81	+ 0 31.6	2.685	3.411	12.6	20.9
1 12	9 43.04	+ 0 40.6	2.584	3.408	10.4	20.7
1 22	9 37.62	+ 1 5.0	2.505	3.406	7.8	20.5
2 1	9 30.95	+ 1 44.2	2.452	3.403	5.1	20.3
2 11	9 23.66	+ 2 35.9	2.428	3.399	3.5	20.2
2 21	9 16.44	+ 3 36.3	2.435	3.396	4.6	20.3
3 2	9 9.99	+ 4 40.8	2.471	3.392	7.2	20.4
3 12	9 4.92	+ 5 44.6	2.534	3.388	9.9	20.6

87383 2000 QU_{62} 2 8.5 105°.15 1°.5/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.78	+ 6 1.8	1.995	2.761	15.1	19.7
1 12	9 45.08	+ 6 50.8	1.912	2.770	12.0	19.5
1 22	9 39.21	+ 7 58.3	1.851	2.780	8.3	19.3
2 1	9 31.70	+ 9 20.9	1.817	2.788	4.2	19.1
2 11	9 23.41	+10 52.3	1.812	2.797	1.6	18.9
2 21	9 15.31	+12 25.3	1.838	2.806	5.1	19.2
3 2	9 8.35	+13 52.6	1.891	2.814	9.0	19.4
3 12	9 3.29	+15 8.9	1.971	2.822	12.5	19.7

132276 2002 EA_{149} 2 8.5 230°.52 0°.9/ 7.9 18

1 2	9 54.01	+15 7.3	1.927	2.715	14.8	21.2
1 12	9 49.46	+15 37.3	1.829	2.705	11.5	21.0
1 22	9 42.34	+16 18.3	1.753	2.694	7.7	20.7
2 1	9 33.18	+17 6.0	1.705	2.682	3.3	20.4
2 11	9 22.92	+17 54.2	1.685	2.670	1.7	20.3
2 21	9 12.73	+18 37.2	1.695	2.657	6.1	20.5
3 2	9 3.77	+19 10.3	1.732	2.644	10.4	20.8
3 12	8 57.02	+19 30.9	1.794	2.630	14.2	21.0

2362 Mark Twain 2 8.5 119°.24 2°.1/ 7.3 18

1 2	9 59.03	+17 46.8	1.609	2.406	16.8	17.1
1 12	9 53.47	+18 23.6	1.542	2.423	13.0	16.9
1 22	9 44.95	+19 9.6	1.498	2.440	8.5	16.7
2 1	9 34.24	+19 58.1	1.479	2.456	3.9	16.5
2 11	9 22.63	+20 41.6	1.489	2.471	2.8	16.4
2 21	9 11.53	+21 14.0	1.528	2.486	7.1	16.7
3 2	9 2.24	+21 31.9	1.593	2.500	11.5	17.0
3 12	8 55.69	+21 35.0	1.681	2.513	15.2	17.3

451004 2008 US_{25} 2 8.5 77°.33 4°.1/11.1 18

1 2	9 51.72	+ 3 25.0	1.448	2.222	19.4	21.5
1 12	9 48.11	+ 3 23.3	1.374	2.232	15.8	21.3
1 22	9 41.59	+ 3 44.8	1.319	2.241	11.5	21.1
2 1	9 32.85	+ 4 28.6	1.287	2.251	6.9	20.8
2 11	9 23.07	+ 5 30.0	1.281	2.261	4.1	20.7
2 21	9 13.60	+ 6 41.5	1.302	2.270	6.7	20.9
3 2	9 5.78	+ 7 54.3	1.349	2.280	11.1	21.1
3 12	9 0.58	+ 9 0.9	1.419	2.290	15.3	21.4

419169 2009 TP_9 2 8.5 19°.44 8°.8/15.5 18

1 2	9 45.35	− 8 0.7	1.558	2.283	20.3	20.5
1 12	9 43.02	− 8 35.7	1.482	2.290	17.5	20.3
1 22	9 38.15	− 8 41.2	1.423	2.297	14.4	20.1
2 1	9 31.33	− 8 13.9	1.385	2.306	11.2	19.9
2 11	9 23.57	− 7 14.7	1.370	2.315	9.1	19.8
2 21	9 16.04	− 5 49.3	1.379	2.325	9.2	19.8
3 2	9 9.90	− 4 6.8	1.414	2.336	11.4	20.0
3 12	9 6.03	− 2 18.4	1.472	2.348	14.5	20.2

329281 1999 VQ_{172} 2 8.5 129°.17 5°.4/ 3.3 18

1 2	9 54.69	+31 1.4	2.544	3.337	11.4	20.8
1 12	9 49.33	+32 13.6	2.481	3.353	9.1	20.7
1 22	9 41.84	+33 23.6	2.444	3.368	6.8	20.6
2 1	9 32.81	+34 24.7	2.435	3.382	5.4	20.5
2 11	9 23.11	+35 10.9	2.456	3.396	6.0	20.6
2 21	9 13.70	+35 38.7	2.506	3.409	7.9	20.7
3 2	9 5.51	+35 47.2	2.583	3.422	10.2	20.9
3 12	8 59.24	+35 37.8	2.682	3.434	12.3	21.1

492160 2013 PP_{26} 2 8.5 158°.50 0°.7/ 9.3 17

1 2	9 50.43	+ 9 16.5	2.719	3.476	11.7	22.7
1 12	9 45.75	+ 9 54.4	2.629	3.484	9.2	22.5
1 22	9 39.36	+10 43.5	2.564	3.492	6.2	22.3
2 1	9 31.71	+11 41.1	2.527	3.500	3.0	22.1
2 11	9 23.46	+12 42.8	2.521	3.507	0.9	22.0
2 21	9 15.35	+13 44.4	2.547	3.512	4.1	22.2
3 2	9 8.09	+14 41.5	2.603	3.518	7.2	22.4
3 12	9 2.29	+15 31.0	2.687	3.522	10.0	22.6

280208 2002 TL_{214} 2 8.5 184°.90 3°.2/10.6 18

1 2	9 53.45	+ 4 55.7	1.632	2.400	17.9	21.1
1 12	9 49.29	+ 5 0.8	1.544	2.400	14.5	20.9
1 22	9 42.35	+ 5 26.4	1.477	2.400	10.4	20.6
2 1	9 33.22	+ 6 11.0	1.433	2.400	5.9	20.4
2 11	9 22.95	+ 7 10.2	1.417	2.399	3.2	20.2
2 21	9 12.84	+ 8 17.2	1.429	2.397	6.3	20.4
3 2	9 4.18	+ 9 24.5	1.468	2.395	10.7	20.6
3 12	8 57.96	+10 25.4	1.531	2.392	14.9	20.8

120889 1998 RT_{75} 2 8.6 162°.97 1°.6/ 9.7 18

1 2	9 53.84	+ 7 30.3	1.826	2.594	16.2	20.7
1 12	9 49.25	+ 7 58.8	1.740	2.600	12.9	20.4
1 22	9 42.12	+ 8 45.0	1.676	2.605	8.9	20.2
2 1	9 33.05	+ 9 45.8	1.638	2.610	4.5	19.9
2 11	9 23.02	+10 55.5	1.629	2.614	1.7	19.8
2 21	9 13.19	+12 7.1	1.649	2.617	5.6	20.0
3 2	9 4.68	+13 14.0	1.698	2.620	9.9	20.3
3 12	8 58.41	+14 11.0	1.771	2.621	13.7	20.5

414887 2010 WM_{49} 2 8.6 349°.08 1°.4/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.18	+10 24.1	1.610	2.404	17.0	20.7
1 12	9 46.78	+10 25.2	1.525	2.401	13.4	20.5
1 22	9 40.68	+10 41.2	1.461	2.398	9.2	20.2
2 1	9 32.47	+11 9.6	1.421	2.396	4.5	20.0
2 11	9 23.21	+11 45.7	1.408	2.394	1.6	19.7
2 21	9 14.15	+12 23.9	1.423	2.392	6.1	20.0
3 2	9 6.53	+12 58.4	1.464	2.391	10.7	20.3
3 12	9 1.31	+13 25.1	1.527	2.391	14.8	20.5

274799 2008 WO_{71} 2 8.6 152°.04 1°.5/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.68	+18 14.1	2.206	2.996	13.1	20.9
1 12	9 47.93	+18 38.5	2.122	3.000	10.1	20.7
1 22	9 41.02	+19 9.1	2.062	3.003	6.6	20.5
2 1	9 32.50	+19 41.7	2.030	3.006	3.0	20.2
2 11	9 23.23	+20 11.4	2.027	3.009	2.1	20.2
2 21	9 14.19	+20 34.0	2.054	3.012	5.6	20.4
3 2	9 6.33	+20 46.9	2.109	3.015	9.2	20.6
3 12	9 0.39	+20 48.9	2.189	3.017	12.3	20.8

240130 2002 GZ_{152} 2 8.6 155°.74 18°.5/27.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 14.10	+50 23.3	1.198	1.992	21.7	20.2
1 12	10 8.92	+53 2.6	1.163	1.995	19.8	20.1
1 22	9 57.28	+55 19.0	1.145	1.998	18.6	20.1
2 1	9 40.21	+56 50.4	1.146	2.001	18.6	20.1
2 11	9 20.73	+57 21.1	1.166	2.004	19.7	20.1
2 21	9 2.77	+56 48.3	1.204	2.006	21.5	20.3
3 2	8 49.51	+55 21.3	1.257	2.007	23.5	20.4
3 12	8 42.38	+53 15.7	1.323	2.008	25.5	20.6

411196 2010 KU_{47} 2 8.6 215°.30 0°.9/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.73	+10 41.2	2.087	2.857	14.4	21.9
1 12	9 48.97	+10 54.5	1.987	2.850	11.4	21.7
1 22	9 41.88	+11 20.1	1.909	2.841	7.8	21.4
2 1	9 32.96	+11 55.4	1.858	2.832	3.7	21.2
2 11	9 23.06	+12 36.3	1.837	2.823	1.2	20.9
2 21	9 13.24	+13 17.7	1.846	2.812	5.3	21.2
3 2	9 4.53	+13 55.2	1.883	2.801	9.3	21.4
3 12	8 57.81	+14 25.2	1.946	2.790	12.9	21.6

57549 2001 TE_{28} 2 8.6 354°.82 1°.6/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.44	+10 21.5	1.703	2.490	16.4	18.8
1 12	9 47.59	+10 15.6	1.617	2.489	13.0	18.6
1 22	9 41.13	+10 23.3	1.553	2.488	9.0	18.3
2 1	9 32.65	+10 42.3	1.514	2.487	4.5	18.1
2 11	9 23.18	+11 8.8	1.502	2.487	1.7	17.9
2 21	9 13.92	+11 37.7	1.518	2.487	5.8	18.1
3 2	9 6.06	+12 4.4	1.561	2.487	10.3	18.4
3 12	9 0.52	+12 24.8	1.627	2.487	14.2	18.6

34782 2001 RV_{72} 2 8.6 271°.75 2°.3/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.51	+ 7 27.1	1.890	2.662	15.6	18.4
1 12	9 46.76	+ 7 28.4	1.788	2.649	12.5	18.1
1 22	9 40.57	+ 7 45.3	1.708	2.636	8.9	17.9
2 1	9 32.43	+ 8 16.4	1.653	2.622	4.8	17.6
2 11	9 23.23	+ 8 58.0	1.625	2.609	2.3	17.4
2 21	9 14.04	+ 9 45.2	1.627	2.595	5.6	17.6
3 2	9 6.00	+10 32.3	1.655	2.581	9.8	17.8
3 12	9 0.03	+11 14.3	1.708	2.567	13.7	18.0

490662 2010 HG_{43} 2 8.6 197°.66 1°.1/ 7.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.47	+16 36.5	2.304	3.082	13.0	22.9
1 12	9 50.09	+17 4.8	2.208	3.079	10.1	22.7
1 22	9 42.49	+17 40.8	2.136	3.074	6.6	22.5
2 1	9 33.18	+18 20.3	2.092	3.069	2.9	22.2
2 11	9 23.01	+18 58.4	2.079	3.063	1.8	22.1
2 21	9 12.97	+19 30.5	2.096	3.055	5.5	22.4
3 2	9 4.02	+19 53.4	2.143	3.047	9.1	22.6
3 12	8 56.98	+20 5.5	2.215	3.039	12.3	22.8

490226 2008 VH_{54} 2 8.6 151°.25 3°.8/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.82	+ 1 50.9	2.438	3.170	13.6	22.2
1 12	9 45.48	+ 1 37.3	2.346	3.175	11.1	22.1
1 22	9 39.28	+ 1 38.3	2.276	3.179	8.3	21.9
2 1	9 31.72	+ 1 53.7	2.232	3.184	5.5	21.7
2 11	9 23.50	+ 2 21.6	2.217	3.188	3.8	21.6
2 21	9 15.41	+ 2 58.7	2.231	3.192	5.1	21.7
3 2	9 8.26	+ 3 40.9	2.275	3.195	7.8	21.9
3 12	9 2.69	+ 4 23.7	2.345	3.198	10.7	22.0

83961 2001 XQ_{113} 2 8.6 213°.29 0°.7/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.55	+14 28.9	2.651	3.424	11.6	20.2
1 12	9 46.83	+15 12.5	2.547	3.414	9.0	20.0
1 22	9 40.23	+16 5.3	2.467	3.404	5.9	19.8
2 1	9 32.17	+17 3.6	2.416	3.393	2.6	19.5
2 11	9 23.34	+18 2.7	2.397	3.381	1.4	19.4
2 21	9 14.53	+18 57.7	2.409	3.369	4.8	19.7
3 2	9 6.56	+19 44.8	2.451	3.355	8.1	19.8
3 12	9 0.13	+20 21.5	2.519	3.341	11.0	20.0

428016 2006 BE_{153} 2 8.6 348°.86 1°.0/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.05	+17 17.1	1.758	2.559	15.5	20.4
1 12	9 48.80	+17 18.5	1.673	2.556	12.0	20.2
1 22	9 41.90	+17 27.1	1.610	2.553	8.0	19.9
2 1	9 32.98	+17 39.1	1.573	2.551	3.5	19.7
2 11	9 23.09	+17 49.7	1.564	2.549	1.8	19.5
2 21	9 13.46	+17 54.8	1.583	2.547	6.2	19.8
3 2	9 5.29	+17 51.4	1.628	2.546	10.6	20.1
3 12	8 59.49	+17 38.7	1.698	2.545	14.3	20.3

378745 2008 RS_{67} 2 8.6 134°.21 1°.3/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.22	+16 56.1	2.206	2.996	13.1	21.5
1 12	9 46.81	+17 28.7	2.124	3.002	10.1	21.3
1 22	9 40.28	+18 8.9	2.066	3.007	6.6	21.1
2 1	9 32.18	+18 52.4	2.035	3.012	2.9	20.8
2 11	9 23.36	+19 34.0	2.034	3.017	1.9	20.8
2 21	9 14.75	+20 9.1	2.062	3.022	5.5	21.0
3 2	9 7.27	+20 34.4	2.119	3.026	9.0	21.2
3 12	9 1.66	+20 48.3	2.200	3.030	12.1	21.4

32259 2000 OT_{53} 2 8.6 282°.65 5°.0/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.78	− 0 0.6	2.424	3.147	13.9	17.3
1 12	9 45.60	− 0 41.0	2.316	3.134	11.6	17.1
1 22	9 39.48	− 1 7.6	2.229	3.122	9.0	16.9
2 1	9 31.87	− 1 19.1	2.169	3.109	6.5	16.7
2 11	9 23.45	− 1 15.9	2.136	3.097	5.0	16.6
2 21	9 15.04	− 0 59.8	2.133	3.085	6.0	16.7
3 2	9 7.48	− 0 34.1	2.157	3.072	8.5	16.8
3 12	9 1.51	− 0 3.3	2.207	3.060	11.3	16.9

142253 2002 RN_{104} 2 8.6 101°.00 2°.1/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.00	+18 48.2	1.907	2.700	14.7	20.4
1 12	9 50.66	+19 25.9	1.842	2.722	11.3	20.2
1 22	9 42.86	+20 10.3	1.801	2.742	7.4	20.0
2 1	9 33.29	+20 55.7	1.786	2.762	3.4	19.8
2 11	9 23.03	+21 35.6	1.801	2.782	2.8	19.8
2 21	9 13.20	+22 5.3	1.846	2.802	6.4	20.1
3 2	9 4.88	+22 22.0	1.918	2.820	10.1	20.3
3 12	8 58.84	+22 25.3	2.014	2.839	13.3	20.6

365114 2009 CQ_{44} 2 8.6 351°.33 1°.8/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.78	+16 39.0	1.264	2.091	18.8	20.7
1 12	9 47.27	+17 4.9	1.189	2.086	14.7	20.4
1 22	9 41.43	+17 44.2	1.132	2.081	9.7	20.1
2 1	9 32.93	+18 30.8	1.099	2.078	4.3	19.8
2 11	9 23.10	+19 16.0	1.091	2.075	2.7	19.7
2 21	9 13.56	+19 51.8	1.108	2.073	8.1	20.0
3 2	9 5.91	+20 12.8	1.149	2.073	13.3	20.3
3 12	9 1.30	+20 16.8	1.209	2.073	17.9	20.5

375913 2009 WY_{18} 2 8.6 184°.11 1°.8/10.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.21	+ 7 19.7	2.254	3.014	13.7	22.2
1 12	9 45.99	+ 7 32.8	2.160	3.015	10.9	22.1
1 22	9 39.75	+ 7 59.6	2.089	3.015	7.6	21.8
2 1	9 31.98	+ 8 38.2	2.045	3.014	4.1	21.6
2 11	9 23.44	+ 9 24.8	2.030	3.013	1.9	21.5
2 21	9 15.02	+10 15.0	2.045	3.012	4.7	21.7
3 2	9 7.61	+11 3.9	2.089	3.011	8.3	21.9
3 12	9 1.94	+11 47.4	2.158	3.009	11.6	22.1

79532 1998 QX_{17} 2 8.6 213°.21 1°.8/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.34	+ 7 5.9	1.835	2.602	16.2	20.3
1 12	9 49.03	+ 7 32.4	1.736	2.595	13.0	20.0
1 22	9 42.13	+ 8 17.4	1.659	2.587	9.0	19.8
2 1	9 33.15	+ 9 18.4	1.608	2.579	4.7	19.5
2 11	9 23.04	+10 30.2	1.585	2.570	1.9	19.3
2 21	9 12.96	+11 45.6	1.592	2.560	5.8	19.5
3 2	9 4.11	+12 57.5	1.627	2.549	10.2	19.7
3 12	8 57.48	+14 0.2	1.686	2.538	14.2	20.0

254120 2004 OX_{10} 2 8.6 98°.15 2°.0/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 5.87	+12 58.9	1.234	2.027	21.2	20.2
1 12	9 59.47	+12 8.9	1.168	2.042	16.8	20.0
1 22	9 49.29	+11 30.0	1.121	2.057	11.5	19.7
2 1	9 36.28	+11 0.7	1.097	2.071	5.6	19.4
2 11	9 22.10	+10 38.2	1.101	2.086	2.3	19.3
2 21	9 8.67	+10 19.5	1.131	2.099	7.5	19.6
3 2	8 57.72	+10 2.0	1.187	2.113	12.9	20.0
3 12	8 50.31	+ 9 43.3	1.266	2.125	17.5	20.3

156656 2002 JL_{69} 2 8.6 318°.70 7°.3/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.31	+31 4.3	1.796	2.613	14.5	19.5
1 12	9 48.64	+32 29.9	1.720	2.605	11.7	19.3
1 22	9 42.04	+33 55.5	1.667	2.597	8.9	19.1
2 1	9 33.13	+35 11.1	1.640	2.589	7.4	19.0
2 11	9 23.07	+36 7.1	1.640	2.582	8.2	19.0
2 21	9 13.21	+36 37.4	1.666	2.575	10.8	19.1
3 2	9 4.95	+36 40.2	1.716	2.568	13.8	19.3
3 12	8 59.30	+36 18.0	1.785	2.562	16.7	19.5

466196 2012 KD_{51} 2 8.6 216°.37 1°.1/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.32	+15 0.3	2.577	3.356	11.7	22.5
1 12	9 45.97	+15 55.2	2.475	3.347	9.1	22.3
1 22	9 39.71	+17 0.0	2.398	3.337	6.0	22.1
2 1	9 31.97	+18 10.3	2.350	3.327	2.6	21.8
2 11	9 23.45	+19 20.9	2.333	3.316	1.7	21.8
2 21	9 14.94	+20 26.3	2.347	3.305	5.1	22.0
3 2	9 7.29	+21 22.3	2.390	3.293	8.4	22.2
3 12	9 1.20	+22 6.2	2.460	3.280	11.3	22.3

35511 1998 FY_{48} 2 8.6 105°.03 1°.4/ 9.6 18

1 2	9 51.41	+ 9 20.9	2.033	2.805	14.6	19.2
1 12	9 47.04	+ 9 32.0	1.953	2.816	11.5	19.0
1 22	9 40.47	+ 9 56.1	1.896	2.827	7.9	18.8
2 1	9 32.29	+10 30.8	1.865	2.837	3.9	18.6
2 11	9 23.37	+11 11.7	1.863	2.848	1.5	18.4
2 21	9 14.71	+11 54.1	1.890	2.858	5.0	18.7
3 2	9 7.26	+12 33.3	1.946	2.868	8.8	18.9
3 12	9 1.74	+13 5.8	2.027	2.878	12.2	19.2

95838 2003 FJ_{107} 2 8.6 217°.96 4°.6/ 5.4 18

1 2	9 55.85	+23 30.8	1.744	2.551	15.3	19.7
1 12	9 51.27	+24 34.1	1.660	2.546	11.9	19.5
1 22	9 43.75	+25 43.6	1.599	2.540	8.2	19.2
2 1	9 33.89	+26 50.9	1.564	2.533	5.0	19.0
2 11	9 22.82	+27 47.0	1.557	2.526	5.3	19.0
2 21	9 11.94	+28 25.1	1.578	2.519	8.7	19.2
3 2	9 2.62	+28 41.8	1.625	2.511	12.6	19.4
3 12	8 55.92	+28 37.7	1.694	2.503	16.1	19.6

70376 1999 RB_{211} 2 8.6 257°.83 4°.6/11.5 18

1 2	9 52.49	+ 1 59.4	1.936	2.679	16.2	19.7
1 12	9 48.34	+ 1 38.8	1.823	2.660	13.5	19.4
1 22	9 41.70	+ 1 35.8	1.731	2.640	10.2	19.2
2 1	9 33.00	+ 1 51.3	1.664	2.619	6.7	18.9
2 11	9 23.09	+ 2 23.9	1.625	2.597	4.7	18.7
2 21	9 13.07	+ 3 9.9	1.614	2.575	6.5	18.8
3 2	9 4.10	+ 4 3.7	1.630	2.553	10.2	18.9
3 12	8 57.19	+ 4 59.0	1.671	2.530	14.0	19.1

32071 Matthewretchin 2 8.6 205°.81 4°.0/ 5.5 18

1 2	9 53.63	+23 30.3	1.983	2.786	13.9	19.0
1 12	9 49.12	+24 25.9	1.900	2.784	10.8	18.8
1 22	9 42.07	+25 26.2	1.841	2.781	7.3	18.6
2 1	9 33.07	+26 24.2	1.809	2.779	4.4	18.4
2 11	9 23.11	+27 12.5	1.805	2.775	4.6	18.4
2 21	9 13.35	+27 45.7	1.831	2.772	7.7	18.6
3 2	9 4.94	+28 0.9	1.883	2.768	11.2	18.8
3 12	8 58.77	+27 58.3	1.957	2.765	14.3	19.0

244115 2001 VG_{4} 2 8.6 196°.80 9°.4/16.3 18

1 2	9 55.07	−15 9.3	2.485	3.098	15.9	21.2
1 12	9 49.73	−16 6.0	2.380	3.095	14.3	21.0
1 22	9 42.28	−16 41.6	2.293	3.090	12.5	20.9
2 1	9 33.15	−16 52.1	2.228	3.084	10.7	20.8
2 11	9 23.09	−16 35.6	2.189	3.076	9.5	20.7
2 21	9 13.00	−15 53.0	2.176	3.068	9.5	20.6
3 2	9 3.83	−14 48.7	2.191	3.058	10.6	20.7
3 12	8 56.37	−13 29.3	2.231	3.048	12.5	20.8

143097 2002 XN_{17} 2 8.6 156°.53 5°.3/ 4.9 18

1 2	9 57.31	+27 55.4	1.948	2.750	14.1	19.8
1 12	9 51.99	+28 47.1	1.874	2.754	11.1	19.7
1 22	9 43.95	+29 38.8	1.823	2.757	7.9	19.5
2 1	9 33.87	+30 22.9	1.799	2.761	5.5	19.3
2 11	9 22.88	+30 52.2	1.804	2.764	5.9	19.4
2 21	9 12.26	+31 2.3	1.837	2.766	8.6	19.5
3 2	9 3.22	+30 52.1	1.896	2.769	11.8	19.7
3 12	8 56.63	+30 23.7	1.978	2.771	14.7	19.9

123410 2000 WV_{96} 2 8.6 40°.41 4°.2/11.2 18

1 2	9 50.89	+ 4 19.1	1.600	2.372	18.0	18.7
1 12	9 47.08	+ 3 52.7	1.533	2.388	14.6	18.5
1 22	9 40.70	+ 3 44.9	1.485	2.405	10.6	18.3
2 1	9 32.43	+ 3 55.5	1.462	2.423	6.5	18.1
2 11	9 23.36	+ 4 21.4	1.464	2.441	4.2	18.0
2 21	9 14.68	+ 4 57.7	1.494	2.460	6.3	18.2
3 2	9 7.52	+ 5 38.4	1.550	2.479	10.1	18.5
3 12	9 2.70	+ 6 17.6	1.629	2.498	13.7	18.7

51922 2001 QZ_{92} 2 8.6 103°.87 4°.5/12.1 18

1 2	9 50.94	+ 0 49.1	2.432	3.157	13.8	18.9
1 12	9 46.33	+ 0 12.7	2.343	3.164	11.4	18.8
1 22	9 39.85	− 0 9.6	2.276	3.172	8.7	18.6
2 1	9 32.00	− 0 17.5	2.235	3.179	6.1	18.4
2 11	9 23.50	− 0 11.6	2.222	3.186	4.5	18.3
2 21	9 15.16	+ 0 5.6	2.239	3.193	5.6	18.4
3 2	9 7.78	+ 0 30.6	2.285	3.200	8.0	18.6
3 12	9 2.01	+ 0 59.4	2.356	3.207	10.7	18.8

221100 2005 SK_{105} 2 8.6 110°.55 4°.4/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.17	− 1 13.0	2.162	2.886	15.3	21.4
1 12	9 45.92	− 1 3.3	2.081	2.903	12.6	21.3
1 22	9 39.65	− 0 33.8	2.022	2.920	9.5	21.1
2 1	9 31.92	+ 0 14.9	1.988	2.936	6.4	20.9
2 11	9 23.53	+ 1 19.5	1.983	2.952	4.4	20.8
2 21	9 15.36	+ 2 34.6	2.007	2.967	5.5	20.9
3 2	9 8.29	+ 3 53.9	2.060	2.982	8.4	21.1
3 12	9 2.99	+ 5 11.2	2.139	2.997	11.4	21.3

297454 2000 SD_{262} 2 8.6 83°.84 4°.3/ 6.1 18

1 2	9 57.18	+22 57.8	1.517	2.330	16.9	20.3
1 12	9 52.35	+23 46.1	1.455	2.343	13.1	20.1
1 22	9 44.39	+24 39.3	1.413	2.357	8.8	19.9
2 1	9 34.10	+25 29.0	1.398	2.370	5.0	19.7
2 11	9 22.85	+26 6.5	1.409	2.383	5.0	19.7
2 21	9 12.15	+26 26.1	1.448	2.396	8.6	20.0
3 2	9 3.39	+26 25.9	1.511	2.409	12.7	20.3
3 12	8 57.51	+26 7.5	1.597	2.421	16.2	20.5

38486 1999 TE_{108} 2 8.6 178°.99 2°.2/10.3 18

1 2	9 50.91	+ 7 13.8	2.177	2.938	14.1	19.6
1 12	9 46.60	+ 7 11.1	2.085	2.939	11.3	19.4
1 22	9 40.19	+ 7 21.5	2.015	2.939	8.0	19.2
2 1	9 32.21	+ 7 43.7	1.972	2.939	4.4	19.0
2 11	9 23.44	+ 8 14.6	1.957	2.939	2.3	18.9
2 21	9 14.82	+ 8 50.1	1.972	2.939	4.9	19.0
3 2	9 7.26	+ 9 26.2	2.016	2.939	8.5	19.2
3 12	9 1.51	+ 9 58.7	2.085	2.938	11.8	19.5

218773 2005 WL_{148} 2 8.6 118°.13 1°.7/ 9.9 18

1 2	9 49.75	+ 7 27.6	1.971	2.742	15.1	20.6
1 12	9 45.91	+ 7 50.6	1.886	2.747	12.0	20.4
1 22	9 39.83	+ 8 29.7	1.823	2.752	8.3	20.2
2 1	9 32.07	+ 9 22.1	1.786	2.757	4.3	19.9
2 11	9 23.49	+10 23.0	1.778	2.762	1.7	19.8
2 21	9 15.09	+11 26.6	1.798	2.767	5.1	20.0
3 2	9 7.87	+12 26.9	1.847	2.771	9.1	20.3
3 12	9 2.60	+13 19.2	1.921	2.776	12.6	20.5

80202 1999 VU_{57} 2 8.6 42°.56 3°.7/10.6 18

1 2	9 51.94	+ 5 49.8	1.233	2.029	21.0	19.2
1 12	9 48.77	+ 5 37.1	1.164	2.036	16.9	19.0
1 22	9 42.31	+ 5 47.5	1.113	2.045	12.1	18.7
2 1	9 33.30	+ 6 19.9	1.084	2.053	6.9	18.5
2 11	9 23.10	+ 7 9.2	1.080	2.062	3.7	18.3
2 21	9 13.28	+ 8 7.5	1.101	2.071	7.2	18.5
3 2	9 5.40	+ 9 6.1	1.147	2.081	12.3	18.8
3 12	9 0.51	+ 9 57.6	1.213	2.091	16.8	19.1

375610 2008 WQ_{36} 2 8.6 135°.24 1°.4/ 7.4 18

1 2	9 50.67	+17 15.8	2.308	3.097	12.6	21.7
1 12	9 46.32	+17 50.1	2.225	3.103	9.7	21.5
1 22	9 39.94	+18 31.6	2.167	3.108	6.4	21.3
2 1	9 32.07	+19 16.0	2.136	3.113	2.8	21.1
2 11	9 23.50	+19 58.3	2.135	3.117	2.0	21.1
2 21	9 15.13	+20 34.0	2.163	3.122	5.4	21.3
3 2	9 7.84	+21 0.0	2.221	3.126	8.8	21.5
3 12	9 2.32	+21 14.7	2.303	3.130	11.8	21.7

85348 1995 SV_{82} 2 8.6 191°.50 2°.4/ 6.3 17

1 2	9 54.26	+22 8.1	2.810	3.591	10.8	21.0
1 12	9 48.78	+22 43.1	2.717	3.589	8.3	20.8
1 22	9 41.44	+23 21.1	2.649	3.587	5.6	20.6
2 1	9 32.70	+23 57.8	2.611	3.583	3.0	20.5
2 11	9 23.30	+24 28.8	2.604	3.579	2.9	20.4
2 21	9 14.03	+24 50.6	2.628	3.574	5.4	20.6
3 2	9 5.70	+25 1.3	2.682	3.568	8.2	20.8
3 12	8 58.97	+25 0.6	2.762	3.562	10.8	20.9

320667 2008 CE_{179} 2 8.6 336°.96 8°.4/ 2.9 18

1 2	9 52.95	+31 2.2	1.467	2.295	16.6	20.2
1 12	9 49.75	+32 28.9	1.396	2.287	13.4	20.0
1 22	9 43.11	+33 55.6	1.347	2.280	10.2	19.8
2 1	9 33.72	+35 10.4	1.321	2.273	8.4	19.7
2 11	9 22.95	+36 1.8	1.321	2.267	9.3	19.7
2 21	9 12.51	+36 22.7	1.345	2.262	12.2	19.9
3 2	9 4.05	+36 11.8	1.392	2.257	15.7	20.0
3 12	8 58.74	+35 33.0	1.458	2.253	18.9	20.2

79348 1996 XK_{9} 2 8.6 180°.08 3°.6/11.9 18

1 2	9 49.26	+ 1 1.1	2.924	3.642	11.8	20.2
1 12	9 44.77	+ 0 46.1	2.824	3.643	9.8	20.0
1 22	9 38.71	+ 0 43.5	2.747	3.643	7.4	19.8
2 1	9 31.49	+ 0 53.4	2.697	3.643	5.0	19.7
2 11	9 23.70	+ 1 14.4	2.676	3.643	3.6	19.6
2 21	9 16.00	+ 1 43.9	2.686	3.643	4.6	19.7
3 2	9 9.04	+ 2 18.9	2.726	3.642	6.9	19.8
3 12	9 3.39	+ 2 55.6	2.792	3.640	9.3	20.0

136240 2003 WY_{143} 2 8.6 287°.03 7°.3/12.3 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 52.32	− 0 54.5	1.663	2.406	18.5	19.4
1 12	9 48.59	− 1 55.7	1.561	2.390	15.7	19.1
1 22	9 42.08	− 2 38.4	1.478	2.374	12.4	18.9
2 1	9 33.25	− 2 59.1	1.417	2.358	9.2	18.6
2 11	9 23.08	− 2 56.6	1.382	2.342	7.3	18.5
2 21	9 12.82	− 2 32.8	1.373	2.325	8.5	18.5
3 2	9 3.81	− 1 52.8	1.389	2.309	11.8	18.6
3 12	8 57.19	− 1 4.0	1.429	2.293	15.5	18.8

377227 2003 YL_{163} 2 8.6 96°.12 4°.8/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.86	+26 52.2	2.178	2.983	12.7	21.4
1 12	9 47.51	+27 59.0	2.108	2.990	9.9	21.2
1 22	9 40.86	+29 7.1	2.061	2.997	7.0	21.1
2 1	9 32.51	+30 9.5	2.043	3.004	5.0	21.0
2 11	9 23.38	+30 59.4	2.053	3.011	5.5	21.0
2 21	9 14.52	+31 32.1	2.092	3.018	7.9	21.2
3 2	9 6.93	+31 45.7	2.157	3.025	10.7	21.3
3 12	9 1.38	+31 41.2	2.245	3.032	13.4	21.5

313067 2000 SF_{160} 2 8.6 5°.61 21°.4/23.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.68	−23 4.4	1.110	1.778	29.8	20.1
1 12	9 47.07	−25 42.7	1.047	1.777	28.0	19.9
1 22	9 41.77	−27 40.6	0.994	1.777	25.9	19.7
2 1	9 33.32	−28 44.1	0.953	1.778	23.9	19.6
2 11	9 23.05	−28 42.8	0.926	1.779	22.3	19.5
2 21	9 12.80	−27 34.3	0.914	1.781	21.5	19.4
3 2	9 4.54	−25 25.7	0.918	1.783	21.8	19.4
3 12	8 59.80	−22 34.3	0.938	1.786	23.0	19.5

29423 1997 AF_{22} 2 8.6 58°.44 2°.5/ 7.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.51	+22 37.0	2.076	2.868	13.7	17.5
1 12	9 51.52	+22 43.2	2.016	2.894	10.5	17.3
1 22	9 43.25	+22 51.0	1.980	2.920	7.0	17.1
2 1	9 33.45	+22 55.8	1.971	2.945	3.5	17.0
2 11	9 23.13	+22 53.6	1.993	2.971	3.0	17.0
2 21	9 13.38	+22 41.9	2.044	2.997	6.1	17.2
3 2	9 5.13	+22 20.2	2.123	3.023	9.4	17.5
3 12	8 59.05	+21 49.1	2.227	3.049	12.3	17.7

260804 2005 NU_{122} 2 8.6 95°.13 2°.9/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.74	+18 38.4	1.935	2.733	14.3	20.1
1 12	9 48.25	+19 59.0	1.872	2.754	10.9	19.9
1 22	9 41.37	+21 28.1	1.832	2.775	7.2	19.8
2 1	9 32.73	+22 58.2	1.821	2.796	3.7	19.6
2 11	9 23.33	+24 21.0	1.839	2.815	3.6	19.6
2 21	9 14.27	+25 29.8	1.887	2.835	7.0	19.9
3 2	9 6.59	+26 20.5	1.962	2.854	10.5	20.1
3 12	9 1.07	+26 52.2	2.061	2.873	13.5	20.3

492887 2014 QW_{405} 2 8.6 158°.32 2°.7/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.53	+ 5 31.3	1.954	2.712	15.6	21.9
1 12	9 48.08	+ 5 36.3	1.866	2.717	12.6	21.7
1 22	9 41.30	+ 5 57.8	1.800	2.722	9.0	21.5
2 1	9 32.75	+ 6 34.4	1.760	2.726	5.1	21.2
2 11	9 23.33	+ 7 22.1	1.749	2.730	2.7	21.1
2 21	9 14.09	+ 8 15.8	1.766	2.733	5.4	21.3
3 2	9 6.07	+ 9 9.7	1.812	2.736	9.2	21.5
3 12	9 0.09	+ 9 58.9	1.883	2.738	12.8	21.7

147376 2003 EM_{21} 2 8.6 350°.33 5°.5/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.22	− 1 34.6	1.566	2.325	18.9	19.3
1 12	9 43.05	− 1 28.4	1.478	2.320	15.8	19.0
1 22	9 38.31	− 0 54.7	1.408	2.316	12.1	18.8
2 1	9 31.54	+ 0 7.2	1.360	2.313	8.2	18.6
2 11	9 23.69	+ 1 33.8	1.338	2.310	5.6	18.4
2 21	9 15.96	+ 3 17.1	1.342	2.308	6.9	18.5
3 2	9 9.54	+ 5 7.2	1.373	2.307	10.7	18.7
3 12	9 5.40	+ 6 53.5	1.427	2.306	14.7	18.9

214276 2005 GQ_{63} 2 8.6 295°.66 5°.5/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.94	+23 12.8	1.558	2.380	16.1	20.6
1 12	9 47.97	+24 41.4	1.470	2.364	12.6	20.4
1 22	9 41.89	+26 20.3	1.404	2.349	8.8	20.1
2 1	9 33.24	+27 59.6	1.364	2.333	5.8	19.9
2 11	9 23.12	+29 27.7	1.351	2.318	6.5	19.9
2 21	9 13.02	+30 34.6	1.364	2.302	10.2	20.0
3 2	9 4.48	+31 14.9	1.402	2.287	14.3	20.2
3 12	8 58.71	+31 28.2	1.460	2.272	18.1	20.4

344542 2002 VU_{10} 2 8.6 98°.33 1°.7/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.87	+ 8 34.6	1.568	2.343	18.2	21.4
1 12	9 52.48	+ 8 48.0	1.505	2.369	14.3	21.2
1 22	9 44.26	+ 9 18.5	1.463	2.395	9.8	21.0
2 1	9 34.02	+10 2.7	1.447	2.419	4.8	20.7
2 11	9 22.97	+10 54.4	1.458	2.443	1.8	20.6
2 21	9 12.46	+11 46.8	1.499	2.467	6.0	20.9
3 2	9 3.72	+12 34.0	1.566	2.489	10.5	21.2
3 12	8 57.59	+13 11.8	1.657	2.511	14.3	21.5

357487 2004 JG_{39} 2 8.6 235°.57 2°.7/ 5.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.20	+20 47.3	2.564	3.360	11.3	20.6
1 12	9 44.39	+21 52.0	2.474	3.355	8.7	20.4
1 22	9 38.70	+23 2.7	2.409	3.350	5.8	20.2
2 1	9 31.58	+24 14.1	2.372	3.345	3.2	20.0
2 11	9 23.72	+25 20.5	2.366	3.340	3.3	20.0
2 21	9 15.94	+26 16.8	2.390	3.334	6.0	20.2
3 2	9 9.05	+26 59.6	2.442	3.328	8.9	20.4
3 12	9 3.75	+27 27.5	2.519	3.323	11.6	20.5

208693 2002 GA_{164} 2 8.6 253°.91 0°.5/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.53	+13 23.3	1.813	2.603	15.5	20.6
1 12	9 48.57	+13 56.8	1.712	2.588	12.2	20.4
1 22	9 41.95	+14 44.3	1.633	2.573	8.1	20.1
2 1	9 33.17	+15 41.5	1.580	2.557	3.6	19.8
2 11	9 23.18	+16 42.0	1.556	2.541	1.4	19.6
2 21	9 13.17	+17 39.0	1.560	2.525	6.3	19.9
3 2	9 4.41	+18 26.6	1.592	2.508	10.9	20.1
3 12	8 57.92	+19 1.0	1.647	2.491	14.9	20.3

200954 2002 BB_{22} 2 8.6 95°.16 5°.1/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.77	+23 53.8	1.561	2.373	16.5	20.1
1 12	9 52.02	+25 7.1	1.501	2.390	12.8	19.9
1 22	9 44.18	+26 25.1	1.464	2.405	8.7	19.7
2 1	9 34.06	+27 38.2	1.453	2.421	5.5	19.6
2 11	9 22.96	+28 36.5	1.469	2.437	5.8	19.6
2 21	9 12.39	+29 13.7	1.512	2.452	9.2	19.9
3 2	9 3.70	+29 27.5	1.581	2.466	12.9	20.1
3 12	8 57.85	+29 19.7	1.671	2.481	16.2	20.4

153958 2002 AM_{31} 2 8.6 124°.18 0°.3/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 8.65	+ 9 38.9	1.438	2.203	20.0	21.8
1 12	10 1.08	+10 33.2	1.376	2.237	15.6	21.6
1 22	9 50.10	+11 47.0	1.336	2.268	10.4	21.4
2 1	9 36.62	+13 13.4	1.322	2.297	4.6	21.1
2 11	9 22.16	+14 42.3	1.338	2.324	1.4	20.9
2 21	9 8.44	+16 3.6	1.385	2.349	7.0	21.4
3 2	8 56.96	+17 10.5	1.459	2.371	12.0	21.7
3 12	8 48.74	+17 59.7	1.558	2.391	16.1	22.0

83640 2001 SW_{334} 2 8.6 37°.73 2°.5/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.25	+ 4 2.5	1.886	2.654	15.8	19.8
1 12	9 43.22	+ 4 35.8	1.812	2.668	12.6	19.6
1 22	9 38.05	+ 5 28.7	1.760	2.684	9.0	19.4
2 1	9 31.30	+ 6 38.6	1.733	2.699	5.0	19.2
2 11	9 23.84	+ 7 59.9	1.734	2.716	2.5	19.0
2 21	9 16.63	+ 9 25.5	1.763	2.732	5.1	19.2
3 2	9 10.61	+10 48.4	1.821	2.749	8.9	19.5
3 12	9 6.49	+12 2.5	1.903	2.767	12.3	19.7

370190 2002 CO_{183} 2 8.6 34°.70 0°.1/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.25	+14 18.9	1.738	2.532	15.9	20.7
1 12	9 48.91	+14 16.6	1.659	2.537	12.4	20.5
1 22	9 41.96	+14 24.2	1.602	2.542	8.3	20.2
2 1	9 33.07	+14 38.3	1.570	2.547	3.7	20.0
2 11	9 23.28	+14 54.6	1.567	2.553	1.1	19.8
2 21	9 13.81	+15 8.5	1.592	2.559	5.9	20.1
3 2	9 5.82	+15 16.8	1.643	2.565	10.2	20.4
3 12	9 0.15	+15 17.2	1.719	2.571	13.9	20.6

372896 2011 AL_{31} 2 8.6 116°.63 3°.2/ 6.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.83	+20 46.7	1.916	2.721	14.2	20.9
1 12	9 47.74	+21 44.8	1.839	2.725	11.0	20.7
1 22	9 41.18	+22 49.9	1.785	2.728	7.3	20.5
2 1	9 32.73	+23 55.4	1.758	2.731	3.9	20.3
2 11	9 23.38	+24 53.6	1.759	2.735	3.9	20.3
2 21	9 14.27	+25 38.6	1.789	2.738	7.2	20.5
3 2	9 6.51	+26 6.9	1.846	2.741	10.9	20.7
3 12	9 0.94	+26 17.8	1.926	2.744	14.1	20.9

419874 2011 AL_{32} 2 8.6 62°.29 3°.0/ 6.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.02	+19 18.5	1.659	2.468	15.9	20.9
1 12	9 48.76	+20 17.2	1.602	2.490	12.2	20.7
1 22	9 41.83	+21 23.9	1.567	2.512	8.0	20.5
2 1	9 32.97	+22 31.0	1.559	2.535	4.0	20.3
2 11	9 23.34	+23 30.3	1.579	2.557	3.7	20.4
2 21	9 14.20	+24 15.6	1.626	2.579	7.4	20.6
3 2	9 6.70	+24 43.5	1.700	2.602	11.2	20.9
3 12	9 1.65	+24 53.8	1.796	2.624	14.5	21.2

335905 2007 RS_{300} 2 8.6 105°.98 1°.4/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.19	+ 8 13.2	2.465	3.225	12.7	22.0
1 12	9 44.95	+ 8 32.3	2.384	3.240	10.0	21.8
1 22	9 38.94	+ 9 3.2	2.327	3.254	6.9	21.6
2 1	9 31.63	+ 9 43.7	2.297	3.268	3.5	21.4
2 11	9 23.76	+10 30.0	2.298	3.282	1.4	21.3
2 21	9 16.09	+11 18.0	2.328	3.296	4.2	21.5
3 2	9 9.37	+12 3.5	2.388	3.309	7.5	21.7
3 12	9 4.22	+12 43.2	2.474	3.322	10.4	21.9

401808 2014 JB_{24} 2 8.6 137°.14 1°.5/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.94	+14 45.1	1.581	2.381	16.9	21.1
1 12	9 49.80	+15 37.5	1.505	2.388	13.1	20.8
1 22	9 42.77	+16 44.2	1.451	2.394	8.6	20.6
2 1	9 33.50	+17 58.9	1.422	2.400	3.8	20.3
2 11	9 23.15	+19 12.7	1.421	2.405	2.3	20.2
2 21	9 13.08	+20 17.4	1.449	2.411	7.1	20.5
3 2	9 4.63	+21 7.2	1.503	2.415	11.6	20.8
3 12	8 58.77	+21 39.5	1.579	2.420	15.6	21.1

277969 2006 SC_{391} 2 8.6 123°.55 0°.8/ 9.2 18

1 2	9 51.10	+10 11.4	1.766	2.551	16.0	20.8
1 12	9 47.27	+10 35.5	1.682	2.553	12.6	20.6
1 22	9 40.93	+11 15.1	1.620	2.556	8.6	20.4
2 1	9 32.65	+12 6.8	1.583	2.558	4.0	20.1
2 11	9 23.42	+13 4.7	1.575	2.560	1.2	19.9
2 21	9 14.39	+14 2.5	1.594	2.563	5.7	20.2
3 2	9 6.69	+14 54.1	1.642	2.565	10.1	20.5
3 12	9 1.22	+15 35.3	1.713	2.567	13.9	20.7

126747 2002 CS_{311} 2 8.6 143°.18 0°.3/ 8.3 18

1 2	9 54.94	+15 30.1	2.328	3.104	12.9	20.4
1 12	9 49.51	+15 36.1	2.244	3.113	10.0	20.2
1 22	9 42.02	+15 48.8	2.184	3.121	6.6	20.0
2 1	9 33.01	+16 5.2	2.153	3.129	2.9	19.7
2 11	9 23.34	+16 21.4	2.151	3.137	1.1	19.6
2 21	9 13.92	+16 34.3	2.181	3.144	4.9	19.9
3 2	9 5.65	+16 41.3	2.239	3.151	8.4	20.1
3 12	8 59.23	+16 41.2	2.323	3.157	11.5	20.3

411630 2011 UW_{134} 2 8.6 272°.76 2°.6/10.1 17

1 2	9 52.70	+ 7 52.4	1.592	2.374	17.6	21.8
1 12	9 48.87	+ 7 42.5	1.502	2.369	14.2	21.6
1 22	9 42.21	+ 7 49.2	1.433	2.363	10.0	21.3
2 1	9 33.30	+ 8 11.3	1.387	2.358	5.4	21.0
2 11	9 23.21	+ 8 45.0	1.369	2.352	2.7	20.8
2 21	9 13.24	+ 9 24.8	1.377	2.346	6.3	21.0
3 2	9 4.72	+10 4.7	1.413	2.341	11.0	21.3
3 12	8 58.71	+10 39.4	1.471	2.335	15.2	21.5

53052 1998 XN_{8} 2 8.6 125°.88 2°.7/ 6.1 18

1 2	9 52.02	+18 5.4	2.015	2.812	13.9	19.1
1 12	9 47.73	+19 26.7	1.942	2.823	10.7	18.9
1 22	9 41.09	+20 57.6	1.892	2.835	7.0	18.7
2 1	9 32.68	+22 31.1	1.870	2.845	3.5	18.5
2 11	9 23.43	+23 58.9	1.879	2.856	3.4	18.5
2 21	9 14.40	+25 13.9	1.917	2.866	6.8	18.7
3 2	9 6.63	+26 11.5	1.983	2.875	10.4	18.9
3 12	9 0.93	+26 50.2	2.073	2.885	13.5	19.2

464893 2005 QQ_{140} 2 8.6 186°.74 6°.6/29.9 18

1 2	9 56.38	+44 49.1	3.719	4.477	8.8	22.3
1 12	9 50.41	+45 58.2	3.654	4.477	7.6	22.2
1 22	9 42.53	+46 59.4	3.615	4.475	6.8	22.2
2 1	9 33.23	+47 47.4	3.603	4.473	6.6	22.1
2 11	9 23.26	+48 18.1	3.619	4.471	7.1	22.2
2 21	9 13.45	+48 29.6	3.661	4.467	8.1	22.2
3 2	9 4.63	+48 21.8	3.729	4.464	9.3	22.3
3 12	8 57.47	+47 56.7	3.817	4.459	10.5	22.4

116760 2004 EF_{5} 2 8.6 164°.40 0°.6/ 9.2 18

1 2	9 47.69	+10 9.1	2.408	3.180	12.6	20.4
1 12	9 43.98	+10 39.5	2.316	3.181	9.9	20.2
1 22	9 38.41	+11 21.8	2.248	3.182	6.7	20.0
2 1	9 31.46	+12 13.2	2.208	3.182	3.1	19.7
2 11	9 23.82	+13 9.3	2.197	3.183	0.9	19.6
2 21	9 16.31	+14 5.3	2.216	3.183	4.5	19.8
3 2	9 9.71	+14 56.8	2.265	3.184	7.9	20.0
3 12	9 4.69	+15 40.3	2.339	3.184	11.0	20.2

435322 2007 UV_{140} 2 8.6 354°.61 5°.2/ 4.1 18

1 2	9 50.49	+27 43.2	2.110	2.919	12.9	20.6
1 12	9 46.64	+28 48.4	2.033	2.918	10.1	20.4
1 22	9 40.42	+29 54.8	1.981	2.917	7.3	20.2
2 1	9 32.40	+30 55.1	1.956	2.916	5.3	20.1
2 11	9 23.54	+31 42.4	1.959	2.915	5.9	20.1
2 21	9 14.89	+32 11.6	1.990	2.915	8.3	20.3
3 2	9 7.51	+32 21.0	2.047	2.915	11.2	20.5
3 12	9 2.23	+32 11.2	2.125	2.915	13.9	20.7

313409 2002 PN_{155} 2 8.6 286°.06 0°.2/ 8.6 18

1 2	10 10.31	+19 40.1	1.119	1.927	22.0	20.5
1 12	10 3.95	+18 36.6	1.037	1.922	17.5	20.2
1 22	9 52.97	+17 33.2	0.974	1.917	11.9	19.9
2 1	9 38.24	+16 26.1	0.934	1.912	5.3	19.5
2 11	9 21.66	+15 12.7	0.921	1.907	1.8	19.2
2 21	9 5.64	+13 53.5	0.935	1.902	8.7	19.6
3 2	8 52.47	+12 31.6	0.973	1.898	15.1	20.0
3 12	8 43.57	+11 10.4	1.032	1.893	20.5	20.3

66561 1999 RW_{135} 2 8.6 111°.59 2°.4/ 7.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 58.02	+19 40.3	1.869	2.662	15.0	19.7
1 12	9 52.33	+20 13.8	1.803	2.681	11.5	19.5
1 22	9 44.07	+20 53.3	1.759	2.700	7.6	19.3
2 1	9 33.95	+21 32.8	1.743	2.718	3.6	19.1
2 11	9 23.08	+22 6.0	1.756	2.736	3.0	19.1
2 21	9 12.67	+22 28.2	1.798	2.753	6.6	19.4
3 2	9 3.85	+22 37.2	1.869	2.770	10.4	19.6
3 12	8 57.41	+22 32.9	1.962	2.786	13.7	19.9

109022 2001 QY_{7} 2 8.6 171°.84 0°.6/ 9.0 17

1 2	9 51.31	+12 28.6	2.458	3.229	12.4	19.8
1 12	9 46.68	+12 30.0	2.366	3.230	9.7	19.7
1 22	9 40.15	+12 39.6	2.298	3.231	6.6	19.5
2 1	9 32.22	+12 55.4	2.257	3.232	3.0	19.2
2 11	9 23.62	+13 14.2	2.247	3.233	0.9	19.1
2 21	9 15.18	+13 32.7	2.267	3.233	4.4	19.3
3 2	9 7.71	+13 48.1	2.316	3.233	7.9	19.5
3 12	9 1.89	+13 58.2	2.391	3.234	10.9	19.7

208224 2000 SR_{206} 2 8.6 142°.86 0°.6/ 9.0 18

1 2	9 54.85	+11 0.6	1.957	2.731	15.1	21.8
1 12	9 49.84	+11 24.8	1.877	2.742	11.8	21.6
1 22	9 42.45	+12 2.1	1.819	2.753	8.0	21.4
2 1	9 33.28	+12 48.8	1.788	2.763	3.7	21.1
2 11	9 23.28	+13 39.6	1.787	2.773	1.1	20.9
2 21	9 13.55	+14 29.0	1.815	2.782	5.4	21.3
3 2	9 5.13	+15 11.9	1.872	2.790	9.4	21.5
3 12	8 58.84	+15 45.3	1.954	2.797	12.9	21.7

381281 2007 TS_{337} 2 8.6 131°.26 1°.2/ 7.5 17

1 2	9 51.07	+17 18.0	2.681	3.462	11.3	22.1
1 12	9 46.31	+17 49.7	2.602	3.475	8.7	22.0
1 22	9 39.79	+18 27.1	2.548	3.487	5.7	21.8
2 1	9 32.02	+19 6.7	2.522	3.499	2.5	21.6
2 11	9 23.69	+19 44.1	2.528	3.510	1.7	21.6
2 21	9 15.58	+20 15.9	2.564	3.521	4.7	21.8
3 2	9 8.41	+20 39.3	2.629	3.532	7.7	22.0
3 12	9 2.78	+20 53.3	2.720	3.542	10.3	22.2

132301 2002 GG_{7} 2 8.6 228°.80 5°.3/ 4.8 18

1 2	9 55.86	+25 43.5	1.805	2.612	14.9	20.6
1 12	9 51.29	+26 50.2	1.721	2.605	11.7	20.4
1 22	9 43.81	+28 1.1	1.659	2.597	8.2	20.1
2 1	9 34.01	+29 7.6	1.624	2.589	5.6	20.0
2 11	9 23.03	+30 0.7	1.618	2.581	6.0	20.0
2 21	9 12.21	+30 33.9	1.639	2.572	9.1	20.1
3 2	9 2.92	+30 44.4	1.685	2.563	12.7	20.3
3 12	8 56.22	+30 33.4	1.754	2.553	16.0	20.5

456453 2006 VS_{108} 2 8.6 126°.39 7°.3/13.9 18

1 2	9 52.29	− 5 12.5	1.981	2.687	17.1	21.5
1 12	9 47.88	− 6 0.1	1.896	2.694	14.6	21.4
1 22	9 41.19	− 6 26.9	1.830	2.702	11.8	21.2
2 1	9 32.75	− 6 30.5	1.787	2.709	9.1	21.0
2 11	9 23.45	− 6 10.9	1.771	2.716	7.4	20.9
2 21	9 14.32	− 5 31.2	1.781	2.723	7.9	21.0
3 2	9 6.38	− 4 36.9	1.819	2.729	10.1	21.1
3 12	9 0.43	− 3 34.9	1.881	2.735	12.9	21.3

122732 2000 SY_{46} 2 8.6 143°.41 4°.4/12.7 18

1 2	9 50.53	− 1 24.6	2.412	3.126	14.1	20.5
1 12	9 46.07	− 1 27.6	2.323	3.137	11.7	20.3
1 22	9 39.74	− 1 13.2	2.255	3.147	9.0	20.2
2 1	9 32.04	− 0 41.4	2.214	3.157	6.2	20.0
2 11	9 23.69	+ 0 5.4	2.201	3.166	4.5	19.9
2 21	9 15.49	+ 1 3.4	2.217	3.174	5.4	20.0
3 2	9 8.25	+ 2 7.4	2.263	3.182	7.9	20.1
3 12	9 2.62	+ 3 11.9	2.336	3.189	10.7	20.3

141853 2002 PD_{9} 2 8.6 275°.16 2°.7/10.2 18

1 2	9 51.64	+ 7 7.2	1.735	2.509	16.7	20.5
1 12	9 47.98	+ 7 2.8	1.631	2.493	13.5	20.2
1 22	9 41.63	+ 7 15.1	1.548	2.475	9.6	19.9
2 1	9 33.09	+ 7 43.2	1.489	2.458	5.3	19.7
2 11	9 23.31	+ 8 23.6	1.458	2.441	2.7	19.4
2 21	9 13.47	+ 9 10.9	1.455	2.423	6.1	19.6
3 2	9 4.85	+ 9 59.2	1.478	2.405	10.6	19.8
3 12	8 58.52	+10 42.7	1.525	2.388	14.9	20.0

7784 Watterson 2 8.6 174°.29 11°.2/18.7 18

1 2	9 53.55	−19 16.0	2.193	2.791	18.1	18.4
1 12	9 48.85	−20 14.8	2.101	2.795	16.5	18.2
1 22	9 41.86	−20 47.6	2.024	2.798	14.7	18.1
2 1	9 33.08	−20 49.1	1.968	2.800	12.9	18.0
2 11	9 23.34	−20 17.0	1.934	2.802	11.6	17.9
2 21	9 13.67	−19 12.9	1.925	2.802	11.3	17.9
3 2	9 5.09	−17 42.1	1.941	2.802	12.1	17.9
3 12	8 58.46	−15 53.4	1.981	2.800	13.7	18.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
87403 2000 QH_{76}			2 8.6 222°.73		1°.3/ 9.7 18	
	h m	° ′			°	m
1 2	9 51.06	+ 8 48.9	2.276	3.040	13.5	20.8
1 12	9 46.77	+ 9 4.6	2.174	3.031	10.7	20.6
1 22	9 40.39	+ 9 33.2	2.094	3.023	7.4	20.3
2 1	9 32.40	+10 12.5	2.042	3.013	3.8	20.1
2 11	9 23.56	+10 58.8	2.019	3.003	1.5	19.9
2 21	9 14.76	+11 47.5	2.026	2.993	4.8	20.1
3 2	9 6.93	+12 33.8	2.062	2.982	8.5	20.3
3 12	9 0.84	+13 14.0	2.124	2.971	11.9	20.5
93664 2000 UJ_{106}			2 8.6 34°.35		0°.2/ 8.8 18	
1 2	9 48.48	+10 53.9	1.682	2.477	16.3	19.4
1 12	9 45.33	+11 33.6	1.606	2.484	12.7	19.2
1 22	9 39.67	+12 29.5	1.552	2.492	8.5	18.9
2 1	9 32.12	+13 37.2	1.523	2.500	3.8	18.7
2 11	9 23.67	+14 49.6	1.522	2.508	1.1	18.5
2 21	9 15.47	+15 59.2	1.549	2.517	5.9	18.8
3 2	9 8.66	+16 59.6	1.603	2.526	10.3	19.1
3 12	9 4.07	+17 46.4	1.680	2.535	14.1	19.3
308760 2006 KE_{62}			2 8.6 207°.61		1°.2/ 9.4 18	
1 2	9 51.28	+ 9 2.7	1.675	2.460	16.8	21.1
1 12	9 47.62	+ 9 29.0	1.588	2.459	13.3	20.8
1 22	9 41.30	+10 13.1	1.522	2.457	9.1	20.6
2 1	9 32.89	+11 11.7	1.482	2.456	4.4	20.3
2 11	9 23.41	+12 18.8	1.469	2.454	1.4	20.1
2 21	9 14.08	+13 26.9	1.484	2.453	6.0	20.4
3 2	9 6.13	+14 29.1	1.526	2.451	10.6	20.6
3 12	9 0.52	+15 20.3	1.592	2.449	14.6	20.9
197602 2004 JT_{4}			2 8.6 210°.52		2°.8/10.5 18	
1 2	9 54.65	+ 5 48.6	1.897	2.654	16.1	21.9
1 12	9 49.98	+ 5 49.4	1.798	2.648	13.0	21.7
1 22	9 42.77	+ 6 6.9	1.719	2.641	9.3	21.4
2 1	9 33.53	+ 6 40.0	1.667	2.633	5.3	21.1
2 11	9 23.20	+ 7 25.2	1.643	2.624	2.8	21.0
2 21	9 12.91	+ 8 17.3	1.648	2.614	5.7	21.1
3 2	9 3.83	+ 9 10.3	1.681	2.604	9.9	21.3
3 12	8 56.92	+ 9 58.9	1.739	2.593	13.8	21.6
414990 2011 EM_{51}			2 8.6 249°.10		0°.2/ 8.5 17	
1 2	10 7.94	+10 47.8	0.854	1.670	26.6	23.9
1 12	10 4.72	+11 18.1	0.755	1.644	21.8	23.4
1 22	9 55.76	+12 23.2	0.671	1.615	15.3	22.9
2 1	9 40.68	+14 2.6	0.605	1.583	7.1	22.3
2 11	9 20.55	+16 4.9	0.562	1.548	2.5	21.9
2 21	8 58.16	+18 9.1	0.541	1.509	12.8	22.2
3 2	8 37.55	+19 53.8	0.542	1.468	22.8	22.5
3 12	8 22.25	+21 7.7	0.558	1.424	31.6	22.7
316881 2000 SB_{17}			2 8.6 89°.64		3°.0/10.9 18	
1 2	9 53.17	+ 4 36.8	2.080	2.829	15.1	21.2
1 12	9 48.22	+ 4 33.8	2.011	2.854	12.1	21.0
1 22	9 41.18	+ 4 46.2	1.963	2.879	8.7	20.9
2 1	9 32.66	+ 5 12.5	1.942	2.904	5.1	20.7
2 11	9 23.53	+ 5 49.5	1.950	2.928	3.0	20.6
2 21	9 14.76	+ 6 32.6	1.987	2.952	5.1	20.8
3 2	9 7.22	+ 7 17.0	2.053	2.976	8.4	21.0
3 12	9 1.59	+ 7 58.3	2.145	2.999	11.5	21.2
99322 2001 TW_{136}			2 8.6 340°.97		4°.6/ 4.4 18	
1 2	9 49.38	+25 15.8	2.150	2.959	12.7	19.3
1 12	9 45.74	+26 29.8	2.071	2.957	9.9	19.1
1 22	9 39.83	+27 47.5	2.016	2.955	6.9	18.9
2 1	9 32.17	+29 1.8	1.989	2.953	4.8	18.8
2 11	9 23.66	+30 5.2	1.990	2.951	5.3	18.8
2 21	9 15.29	+30 52.3	2.020	2.950	7.9	18.9
3 2	9 8.11	+31 20.1	2.076	2.949	10.9	19.1
3 12	9 2.90	+31 28.5	2.154	2.947	13.6	19.3
247868 2003 UY_{98}			2 8.6 131°.17		9°.2/ 1.8 18	
1 2	10 1.97	+37 51.0	1.863	2.659	14.9	20.5
1 12	9 56.07	+39 19.4	1.808	2.670	12.4	20.4
1 22	9 46.91	+40 39.9	1.775	2.680	10.2	20.2
2 1	9 35.31	+41 41.4	1.768	2.690	9.2	20.2
2 11	9 22.69	+42 15.4	1.788	2.699	9.9	20.3
2 21	9 10.65	+42 18.2	1.833	2.708	11.9	20.4
3 2	9 0.64	+41 51.1	1.902	2.716	14.3	20.6
3 12	8 53.65	+40 59.6	1.990	2.724	16.5	20.8
358509 2007 RB_{211}			2 8.6 304°.89		2°.0/ 9.8 18	
1 2	9 50.83	+ 8 3.9	1.512	2.302	18.1	21.2
1 12	9 47.57	+ 8 14.5	1.426	2.297	14.4	21.0
1 22	9 41.44	+ 8 44.4	1.359	2.293	10.1	20.7
2 1	9 33.01	+ 9 31.3	1.316	2.288	5.2	20.4
2 11	9 23.38	+10 29.6	1.299	2.284	2.1	20.2
2 21	9 13.88	+11 32.1	1.310	2.280	6.4	20.5
3 2	9 5.87	+12 31.2	1.346	2.276	11.3	20.7
3 12	9 0.42	+13 20.9	1.405	2.272	15.6	21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
134152 2005 AF_{60}			2 8.6 56°.61		1°.4/ 7.5 18	
	h m	° ′			°	m
1 2	9 50.65	+16 58.0	2.018	2.814	13.9	20.6
1 12	9 46.63	+17 30.6	1.938	2.819	10.7	20.4
1 22	9 40.35	+18 11.5	1.881	2.824	7.0	20.1
2 1	9 32.37	+18 56.0	1.851	2.829	3.1	19.9
2 11	9 23.61	+19 38.7	1.851	2.834	2.1	19.8
2 21	9 15.09	+20 14.3	1.879	2.839	5.8	20.1
3 2	9 7.79	+20 39.4	1.934	2.844	9.6	20.3
3 12	9 2.49	+20 52.2	2.014	2.849	12.9	20.6
24879 1996 KO_{5}			2 8.6 40°.85		6°.7/ 2.9 18	
1 2	9 52.12	+30 34.0	1.951	2.764	13.7	17.8
1 12	9 48.15	+31 59.4	1.886	2.768	10.9	17.7
1 22	9 41.55	+33 23.9	1.844	2.773	8.2	17.5
2 1	9 32.95	+34 38.7	1.829	2.779	6.7	17.4
2 11	9 23.44	+35 35.2	1.842	2.784	7.4	17.5
2 21	9 14.21	+36 8.4	1.881	2.790	9.8	17.6
3 2	9 6.47	+36 17.0	1.945	2.795	12.5	17.8
3 12	9 1.09	+36 2.9	2.030	2.801	15.1	18.0
468373 2016 FG_{41}			2 8.6 297°.04		3°.7/ 5.8 17	
1 2	9 50.80	+21 23.9	1.800	2.611	14.7	21.0
1 12	9 47.36	+22 21.6	1.707	2.596	11.5	20.7
1 22	9 41.21	+23 27.7	1.637	2.581	7.7	20.5
2 1	9 32.90	+24 35.0	1.593	2.566	4.3	20.2
2 11	9 23.42	+25 35.4	1.577	2.552	4.4	20.2
2 21	9 13.99	+26 21.7	1.589	2.537	8.0	20.4
3 2	9 5.89	+26 49.5	1.626	2.523	12.0	20.6
3 12	9 0.13	+26 57.8	1.686	2.508	15.6	20.8
342924 2008 YT_{168}			2 8.6 72°.43		1°.4/ 9.7 18	
1 2	9 51.13	+10 6.7	2.195	2.966	13.7	20.5
1 12	9 46.69	+10 1.9	2.114	2.976	10.8	20.3
1 22	9 40.23	+10 7.7	2.055	2.985	7.4	20.1
2 1	9 32.28	+10 22.3	2.023	2.995	3.7	19.9
2 11	9 23.66	+10 42.6	2.020	3.005	1.5	19.7
2 21	9 15.29	+11 4.8	2.047	3.015	4.7	20.0
3 2	9 8.02	+11 25.7	2.102	3.024	8.3	20.2
3 12	9 2.56	+11 42.3	2.183	3.034	11.4	20.4
310029 2010 DQ_{36}			2 8.6 248°.02		1°.1/ 7.9 18	
1 2	9 56.09	+16 3.2	1.626	2.424	16.7	22.2
1 12	9 51.65	+16 20.7	1.532	2.413	13.1	21.9
1 22	9 44.17	+16 49.2	1.459	2.401	8.7	21.6
2 1	9 34.25	+17 23.8	1.411	2.389	3.8	21.3
2 11	9 22.99	+17 58.2	1.392	2.376	1.9	21.1
2 21	9 11.82	+18 26.2	1.400	2.364	7.0	21.4
3 2	9 2.18	+18 43.2	1.435	2.351	11.8	21.7
3 12	8 55.20	+18 47.3	1.492	2.337	16.1	21.9
265646 2005 TQ_{75}			2 8.6 73°.03		6°.5/13.7 18	
1 2	9 50.79	− 4 0.2	1.865	2.585	17.5	20.3
1 12	9 46.73	− 4 27.4	1.792	2.604	14.8	20.2
1 22	9 40.39	− 4 31.9	1.739	2.623	11.6	20.0
2 1	9 32.38	− 4 12.6	1.709	2.642	8.5	19.9
2 11	9 23.63	− 3 31.3	1.705	2.661	6.6	19.8
2 21	9 15.18	− 2 32.6	1.729	2.679	7.2	19.9
3 2	9 8.01	− 1 23.3	1.779	2.698	9.7	20.0
3 12	9 2.88	− 0 10.9	1.854	2.717	12.6	20.3
298784 2004 PU_{46}			2 8.6 150°.37		1°.2/ 9.5 18	
1 2	9 55.53	+ 9 20.2	2.026	2.790	15.0	22.3
1 12	9 50.30	+ 9 39.8	1.943	2.801	11.8	22.1
1 22	9 42.73	+10 13.2	1.883	2.812	8.1	21.9
2 1	9 33.42	+10 57.2	1.849	2.822	3.9	21.6
2 11	9 23.30	+11 47.1	1.845	2.831	1.4	21.5
2 21	9 13.41	+12 37.5	1.872	2.839	5.2	21.8
3 2	9 4.79	+13 23.5	1.927	2.846	9.1	22.0
3 12	8 58.24	+14 1.5	2.008	2.852	12.6	22.2
214391 2005 MY_{26}			2 8.6 131°.84		0°.2/ 8.8 18	
1 2	9 47.85	+11 49.7	2.633	3.406	11.7	20.8
1 12	9 43.92	+12 21.4	2.546	3.412	9.1	20.6
1 22	9 38.29	+13 2.7	2.483	3.417	6.0	20.4
2 1	9 31.41	+13 50.7	2.447	3.423	2.7	20.2
2 11	9 23.94	+14 41.4	2.442	3.428	0.8	20.0
2 21	9 16.61	+15 30.6	2.468	3.433	4.2	20.3
3 2	9 10.14	+16 14.6	2.523	3.438	7.4	20.5
3 12	9 5.13	+16 50.7	2.604	3.443	10.2	20.7
2429 Schürer			2 8.6 72°.48		8°.5/ 3.5 18	A
1 2	10 1.14	+35 15.4	1.680	2.486	15.9	16.0
1 12	9 55.50	+36 19.4	1.624	2.497	12.9	15.8
1 22	9 46.53	+37 16.3	1.589	2.507	10.2	15.7
2 1	9 35.13	+37 55.8	1.579	2.518	8.6	15.6
2 11	9 22.80	+38 9.6	1.596	2.529	9.1	15.6
2 21	9 11.16	+37 54.3	1.638	2.540	11.4	15.8
3 2	9 1.69	+37 11.9	1.704	2.551	14.2	16.0
3 12	8 55.30	+36 7.7	1.791	2.562	16.8	16.2

168952 2001 AN_{39} 2 8.6 15.°56 2.°6/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.19	+17 24.2	1.193	2.026	19.3	19.8
1 12	9 46.91	+18 8.8	1.129	2.030	14.9	19.5
1 22	9 41.25	+19 7.1	1.085	2.036	9.8	19.3
2 1	9 32.95	+20 11.2	1.064	2.042	4.5	19.0
2 11	9 23.45	+21 10.7	1.067	2.050	3.5	18.9
2 21	9 14.41	+21 56.7	1.096	2.059	8.6	19.3
3 2	9 7.39	+22 23.7	1.147	2.069	13.6	19.6
3 12	9 3.45	+22 30.4	1.219	2.079	17.9	19.9

460548 2014 TN_{56} 2 8.6 115.°60 0.°6/ 9.1 18

1 2	9 52.63	+10 6.9	2.118	2.887	14.2	21.9
1 12	9 47.90	+10 39.3	2.043	2.906	11.1	21.8
1 22	9 41.05	+11 24.5	1.991	2.924	7.5	21.6
2 1	9 32.65	+12 19.0	1.967	2.941	3.5	21.3
2 11	9 23.57	+13 17.7	1.972	2.958	1.0	21.2
2 21	9 14.77	+14 14.9	2.007	2.974	4.9	21.5
3 2	9 7.17	+15 6.0	2.072	2.989	8.6	21.7
3 12	9 1.46	+15 47.6	2.162	3.004	11.9	22.0

176900 2002 VN_{57} 2 8.6 58.°41 0.°3/ 8.4 18

1 2	9 51.05	+12 19.5	1.570	2.370	17.1	20.0
1 12	9 47.43	+13 0.4	1.503	2.384	13.2	19.7
1 22	9 41.11	+13 56.7	1.456	2.398	8.8	19.5
2 1	9 32.77	+15 3.1	1.435	2.412	3.8	19.3
2 11	9 23.54	+16 11.8	1.441	2.427	1.4	19.1
2 21	9 14.67	+17 15.2	1.475	2.442	6.3	19.5
3 2	9 7.38	+18 7.1	1.536	2.456	10.8	19.8
3 12	9 2.52	+18 44.3	1.619	2.471	14.7	20.0

124115 2001 JH_{4} 2 8.6 210.°98 2.°8/ 6.6 18

1 2	9 56.77	+19 10.4	1.883	2.677	14.9	21.4
1 12	9 51.80	+20 3.3	1.791	2.670	11.6	21.2
1 22	9 44.08	+21 5.5	1.721	2.662	7.7	21.0
2 1	9 34.16	+22 10.4	1.678	2.653	3.8	20.7
2 11	9 23.07	+23 10.2	1.665	2.644	3.4	20.7
2 21	9 12.07	+23 58.1	1.681	2.633	7.3	20.9
3 2	9 2.43	+24 29.8	1.724	2.622	11.4	21.1
3 12	8 55.17	+24 44.1	1.791	2.609	15.0	21.3

105223 2000 PJ 2 8.6 118.°30 0.°9/ 9.2 18

1 2	9 55.88	+10 13.9	1.862	2.634	15.8	21.5
1 12	9 50.67	+10 35.2	1.790	2.654	12.4	21.3
1 22	9 43.01	+11 10.5	1.740	2.673	8.4	21.1
2 1	9 33.56	+11 55.9	1.716	2.691	3.9	20.9
2 11	9 23.33	+12 46.2	1.722	2.708	1.2	20.7
2 21	9 13.47	+13 35.4	1.758	2.725	5.4	21.0
3 2	9 5.03	+14 18.7	1.821	2.740	9.5	21.3
3 12	8 58.83	+14 52.7	1.910	2.756	13.1	21.6

413204 2003 BA_{14} 2 8.6 0.°66 2.°1/ 9.8 18

1 2	9 45.93	+ 8 53.7	1.263	2.077	19.6	20.3
1 12	9 44.18	+ 8 52.3	1.188	2.074	15.6	20.0
1 22	9 39.37	+ 9 11.0	1.132	2.072	10.9	19.7
2 1	9 32.16	+ 9 47.6	1.098	2.072	5.6	19.4
2 11	9 23.74	+10 36.5	1.088	2.073	2.2	19.2
2 21	9 15.59	+11 29.9	1.103	2.076	6.8	19.5
3 2	9 9.14	+12 19.8	1.142	2.080	12.0	19.8
3 12	9 5.47	+13 0.0	1.203	2.085	16.6	20.1

256796 Almanzor 2 8.6 62.°41 0.°2/ 8.7 18

1 2	9 58.58	+15 12.2	1.570	2.363	17.3	21.0
1 12	9 53.19	+14 51.5	1.500	2.377	13.5	20.7
1 22	9 44.87	+14 39.3	1.451	2.390	9.0	20.5
2 1	9 34.41	+14 32.7	1.427	2.404	4.0	20.2
2 11	9 23.07	+14 27.6	1.432	2.418	1.2	20.1
2 21	9 12.26	+14 20.6	1.465	2.432	6.2	20.4
3 2	9 3.25	+14 9.4	1.524	2.446	10.8	20.7
3 12	8 56.95	+13 52.6	1.607	2.460	14.7	21.0

98736 2000 YO_{35} 2 8.6 17.°78 2.°1/ 7.4 18

1 2	9 49.53	+16 8.2	1.237	2.065	19.1	18.7
1 12	9 47.07	+16 52.6	1.171	2.069	14.8	18.4
1 22	9 41.32	+17 52.1	1.125	2.074	9.7	18.2
2 1	9 33.00	+18 59.1	1.102	2.081	4.3	17.9
2 11	9 23.49	+20 3.8	1.104	2.088	3.0	17.8
2 21	9 14.40	+20 56.8	1.132	2.096	8.2	18.1
3 2	9 7.25	+21 32.1	1.183	2.105	13.2	18.5
3 12	9 3.09	+21 47.8	1.254	2.115	17.6	18.7

428367 2007 RX_{132} 2 8.6 147.°37 0.°3/ 8.3 18

1 2	9 52.29	+15 20.2	2.374	3.154	12.6	21.4
1 12	9 47.52	+15 28.4	2.287	3.157	9.8	21.2
1 22	9 40.77	+15 43.5	2.223	3.161	6.5	21.0
2 1	9 32.55	+16 2.7	2.187	3.164	2.8	20.8
2 11	9 23.65	+16 22.1	2.182	3.167	1.1	20.7
2 21	9 14.96	+16 38.4	2.206	3.170	4.8	20.9
3 2	9 7.32	+16 49.0	2.259	3.173	8.2	21.2
3 12	9 1.42	+16 52.3	2.338	3.175	11.3	21.4

276824 2004 PV_{98} 2 8.6 132.°49 1.°7/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.09	+16 18.8	2.256	3.043	12.9	20.9
1 12	9 46.75	+17 23.7	2.178	3.054	9.9	20.8
1 22	9 40.34	+18 38.0	2.124	3.065	6.5	20.6
2 1	9 32.39	+19 56.2	2.099	3.075	2.9	20.4
2 11	9 23.70	+21 11.6	2.104	3.085	2.4	20.3
2 21	9 15.21	+22 18.5	2.139	3.095	5.7	20.6
3 2	9 7.80	+23 12.5	2.204	3.103	9.1	20.8
3 12	9 2.21	+23 51.6	2.293	3.112	12.1	21.0

81917 2000 NN_{12} 2 8.6 164.°68 5.°6/13.9 18

1 2	9 48.84	− 5 6.3	2.741	3.429	13.2	19.8
1 12	9 44.63	− 5 38.3	2.644	3.432	11.2	19.7
1 22	9 38.76	− 5 54.6	2.568	3.434	9.0	19.5
2 1	9 31.66	− 5 53.8	2.518	3.436	7.0	19.4
2 11	9 23.94	− 5 36.6	2.495	3.438	5.7	19.3
2 21	9 16.30	− 5 5.1	2.501	3.440	6.1	19.3
3 2	9 9.46	− 4 22.7	2.535	3.441	7.8	19.5
3 12	9 4.00	− 3 34.3	2.596	3.442	10.0	19.6

495213 2013 CA_{192} 2 8.6 275.°27 8.°5/13.8 18

1 2	9 50.66	− 5 34.0	1.683	2.404	19.1	21.0
1 12	9 47.37	− 6 23.3	1.578	2.387	16.6	20.8
1 22	9 41.36	− 6 49.0	1.492	2.370	13.6	20.5
2 1	9 33.07	− 6 46.9	1.426	2.352	10.6	20.3
2 11	9 23.44	− 6 15.5	1.386	2.335	8.6	20.1
2 21	9 13.67	− 5 17.5	1.371	2.317	9.3	20.1
3 2	9 5.08	− 3 59.5	1.381	2.299	12.0	20.2
3 12	8 58.81	− 2 31.1	1.414	2.281	15.6	20.4

50722 2000 EW_{141} 2 8.6 113.°92 1.°9/ 6.8 18

1 2	9 49.38	+17 16.7	2.349	3.140	12.3	18.5
1 12	9 45.37	+18 17.0	2.271	3.150	9.5	18.3
1 22	9 39.39	+19 25.4	2.217	3.159	6.2	18.1
2 1	9 31.96	+20 36.7	2.191	3.168	2.9	17.9
2 11	9 23.85	+21 45.0	2.196	3.176	2.4	17.9
2 21	9 15.91	+22 44.9	2.231	3.185	5.6	18.1
3 2	9 9.00	+23 32.5	2.294	3.193	8.8	18.3
3 12	9 3.80	+24 6.0	2.382	3.201	11.7	18.5

243533 2010 EH_{34} 2 8.6 289.°82 1.°6/ 9.9 17

1 2	9 47.90	+ 8 0.3	2.220	2.989	13.7	21.1
1 12	9 44.42	+ 8 14.4	2.117	2.977	10.9	20.9
1 22	9 38.90	+ 8 42.2	2.037	2.965	7.6	20.7
2 1	9 31.81	+ 9 22.0	1.983	2.954	4.0	20.4
2 11	9 23.88	+10 9.9	1.958	2.942	1.7	20.2
2 21	9 15.99	+11 1.5	1.962	2.930	4.8	20.4
3 2	9 9.04	+11 51.6	1.995	2.919	8.5	20.6
3 12	9 3.78	+12 36.1	2.053	2.908	11.9	20.8

246290 2007 TH_{76} 2 8.6 30.°77 1.°4/ 9.8 18

1 2	9 46.91	+ 7 39.5	1.897	2.677	15.3	20.4
1 12	9 43.84	+ 8 14.0	1.817	2.684	12.1	20.2
1 22	9 38.57	+ 9 5.5	1.759	2.692	8.3	20.0
2 1	9 31.65	+10 10.8	1.727	2.700	4.2	19.7
2 11	9 23.95	+11 24.2	1.723	2.709	1.5	19.5
2 21	9 16.46	+12 38.9	1.748	2.717	5.1	19.8
3 2	9 10.13	+13 48.5	1.801	2.727	9.1	20.1
3 12	9 5.74	+14 48.0	1.878	2.736	12.7	20.3

321789 2010 OT_{106} 2 8.6 123.°82 2.°3/ 7.0 18

1 2	9 56.63	+20 6.9	2.004	2.796	14.2	21.5
1 12	9 51.21	+20 36.4	1.931	2.809	10.9	21.4
1 22	9 43.36	+21 11.1	1.881	2.822	7.2	21.2
2 1	9 33.73	+21 45.7	1.859	2.834	3.5	20.9
2 11	9 23.34	+22 14.4	1.866	2.846	2.9	20.9
2 21	9 13.32	+22 33.0	1.903	2.857	6.3	21.2
3 2	9 4.73	+22 39.1	1.967	2.868	10.0	21.4
3 12	8 58.34	+22 32.7	2.056	2.879	13.2	21.6

74014 1998 FK_{114} 2 8.6 227.°88 2.°2/10.1 18

1 2	9 54.05	+ 7 39.8	2.076	2.835	14.8	19.9
1 12	9 49.36	+ 7 37.3	1.971	2.824	11.9	19.6
1 22	9 42.30	+ 7 48.4	1.888	2.812	8.4	19.4
2 1	9 33.38	+ 8 11.8	1.831	2.800	4.6	19.1
2 11	9 23.43	+ 8 44.4	1.804	2.787	2.2	19.0
2 21	9 13.49	+ 9 21.9	1.806	2.773	5.3	19.1
3 2	9 4.63	+ 9 59.6	1.837	2.758	9.3	19.3
3 12	8 57.74	+10 33.2	1.893	2.743	12.9	19.5

453419 2009 HP_{80} 2 8.6 326.°62 4.°1/ 5.9 16

1 2	9 48.70	+19 41.2	1.347	2.177	17.7	21.2
1 12	9 46.56	+20 50.3	1.264	2.164	13.8	20.9
1 22	9 41.16	+22 13.3	1.201	2.151	9.3	20.6
2 1	9 33.07	+23 41.3	1.162	2.138	5.0	20.3
2 11	9 23.50	+25 2.7	1.149	2.126	5.1	20.3
2 21	9 14.02	+26 7.0	1.162	2.115	9.6	20.5
3 2	9 6.25	+26 47.6	1.197	2.105	14.4	20.7
3 12	9 1.45	+27 2.9	1.253	2.096	18.7	21.0

324531 2006 VD_{139} 2 8.6 66°.69 1°.8/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.37	+16 53.5	1.620	2.422	16.5	21.3
1 12	9 49.86	+17 32.0	1.560	2.444	12.7	21.1
1 22	9 42.62	+18 20.2	1.523	2.467	8.3	20.8
2 1	9 33.43	+19 12.0	1.511	2.489	3.7	20.6
2 11	9 23.46	+19 59.9	1.528	2.511	2.5	20.6
2 21	9 14.01	+20 37.9	1.572	2.533	6.7	20.9
3 2	9 6.23	+21 2.4	1.643	2.555	10.9	21.2
3 12	9 0.95	+21 12.4	1.737	2.577	14.4	21.5

279147 2009 SR_{34} 2 8.6 127°.59 0°.8/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.12	+15 38.1	2.054	2.841	14.0	21.2
1 12	9 48.49	+15 58.8	1.972	2.847	10.9	21.0
1 22	9 41.58	+16 28.0	1.914	2.854	7.2	20.8
2 1	9 32.97	+17 1.8	1.883	2.860	3.1	20.6
2 11	9 23.59	+17 35.2	1.881	2.866	1.5	20.5
2 21	9 14.45	+18 3.7	1.909	2.872	5.5	20.7
3 2	9 6.56	+18 23.8	1.964	2.877	9.3	21.0
3 12	9 0.69	+18 33.8	2.045	2.883	12.6	21.2

427067 2014 UF_{15} 2 8.6 58°.20 0°.4/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.25	+12 30.5	1.720	2.512	16.1	21.0
1 12	9 48.19	+12 42.3	1.644	2.520	12.6	20.8
1 22	9 41.56	+13 6.7	1.589	2.528	8.4	20.6
2 1	9 33.01	+13 40.1	1.560	2.536	3.8	20.3
2 11	9 23.58	+14 17.1	1.559	2.545	1.1	20.2
2 21	9 14.45	+14 52.3	1.586	2.554	5.8	20.5
3 2	9 6.77	+15 21.1	1.640	2.562	10.1	20.8
3 12	9 1.39	+15 40.5	1.717	2.571	13.9	21.0

104994 2000 JY_{85} 2 8.6 146°.10 3°.8/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.80	+26 20.8	2.907	3.699	10.2	19.9
1 12	9 46.19	+27 33.8	2.833	3.709	7.9	19.8
1 22	9 39.81	+28 48.1	2.786	3.719	5.6	19.6
2 1	9 32.14	+29 58.2	2.768	3.727	4.0	19.5
2 11	9 23.85	+30 58.8	2.780	3.736	4.4	19.6
2 21	9 15.70	+31 46.0	2.824	3.744	6.4	19.7
3 2	9 8.44	+32 17.6	2.895	3.752	8.7	19.9
3 12	9 2.71	+32 33.7	2.990	3.759	10.8	20.0

201031 2002 CL_{306} 2 8.6 321°.09 3°.6/ 6.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.51	+18 30.9	1.351	2.178	17.9	20.1
1 12	9 47.16	+19 35.5	1.268	2.166	13.9	19.8
1 22	9 41.54	+20 54.9	1.205	2.154	9.3	19.5
2 1	9 33.24	+22 20.8	1.166	2.142	4.7	19.2
2 11	9 23.46	+23 41.9	1.152	2.131	4.5	19.1
2 21	9 13.77	+24 47.8	1.164	2.121	9.1	19.4
3 2	9 5.79	+25 31.7	1.200	2.111	14.1	19.6
3 12	9 0.78	+25 51.4	1.257	2.102	18.5	19.9

417555 2006 UK_{87} 2 8.6 120°.23 2°.1/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.41	+ 6 52.2	2.084	2.841	14.8	22.5
1 12	9 48.55	+ 7 0.3	2.006	2.858	11.8	22.3
1 22	9 41.53	+ 7 22.9	1.950	2.874	8.2	22.1
2 1	9 32.92	+ 7 57.9	1.921	2.889	4.5	21.9
2 11	9 23.62	+ 8 41.2	1.921	2.904	2.2	21.8
2 21	9 14.59	+ 9 28.2	1.951	2.918	4.9	22.0
3 2	9 6.76	+10 13.9	2.010	2.932	8.6	22.2
3 12	9 0.86	+10 54.3	2.094	2.945	11.9	22.5

90535 2004 FC_{42} 2 8.6 282°.29 7°.7/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.72	− 5 4.3	1.837	2.556	17.8	20.0
1 12	9 46.33	− 5 48.6	1.736	2.544	15.4	19.8
1 22	9 40.47	− 6 10.9	1.653	2.531	12.5	19.6
2 1	9 32.63	− 6 8.1	1.593	2.519	9.6	19.3
2 11	9 23.67	− 5 39.5	1.558	2.507	7.8	19.2
2 21	9 14.68	− 4 48.0	1.549	2.495	8.4	19.2
3 2	9 6.80	− 3 39.7	1.566	2.483	11.0	19.3
3 12	9 1.00	− 2 22.7	1.607	2.471	14.2	19.5

130613 2000 SG_{29} 2 8.6 282°.72 3°.4/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.14	+ 5 35.2	1.562	2.340	18.1	19.9
1 12	9 47.88	+ 5 28.5	1.464	2.326	14.7	19.6
1 22	9 41.76	+ 5 41.4	1.386	2.313	10.7	19.3
2 1	9 33.28	+ 6 13.7	1.332	2.299	6.2	19.0
2 11	9 23.46	+ 7 1.8	1.303	2.285	3.4	18.8
2 21	9 13.62	+ 7 59.6	1.302	2.271	6.6	19.0
3 2	9 5.14	+ 8 59.7	1.326	2.257	11.3	19.2
3 12	8 59.16	+ 9 55.1	1.374	2.243	15.7	19.4

331894 2004 LZ 2 8.6 224°.97 3°.7/12.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.20	+ 0 13.4	2.514	3.235	13.5	21.9
1 12	9 45.97	+ 0 22.4	2.401	3.223	11.2	21.7
1 22	9 39.84	+ 0 48.2	2.311	3.210	8.4	21.5
2 1	9 32.24	+ 1 30.7	2.246	3.196	5.6	21.3
2 11	9 23.82	+ 2 27.5	2.211	3.182	3.8	21.2
2 21	9 15.38	+ 3 34.6	2.206	3.167	5.0	21.2
3 2	9 7.74	+ 4 46.7	2.231	3.152	7.9	21.4
3 12	9 1.62	+ 5 58.3	2.283	3.136	11.0	21.6

411990 2012 JB_{27} 2 8.6 32°.09 2°.1/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.54	+ 2 47.0	1.801	2.564	16.6	20.1
1 12	9 44.54	+ 3 55.5	1.713	2.567	13.4	19.9
1 22	9 39.20	+ 5 29.4	1.645	2.570	9.4	19.7
2 1	9 32.01	+ 7 25.3	1.604	2.573	5.1	19.4
2 11	9 23.89	+ 9 35.3	1.592	2.576	2.1	19.2
2 21	9 15.88	+11 49.3	1.609	2.579	5.4	19.4
3 2	9 9.06	+13 56.9	1.656	2.583	9.7	19.7
3 12	9 4.29	+15 49.9	1.728	2.586	13.6	19.9

8321 Akim 2 8.6 331°.48 2°.3/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.67	+10 56.5	1.646	2.431	17.0	16.7
1 12	9 50.35	+10 17.3	1.554	2.424	13.6	16.5
1 22	9 43.20	+ 9 48.6	1.484	2.416	9.5	16.2
2 1	9 33.83	+ 9 29.5	1.438	2.410	5.0	15.9
2 11	9 23.32	+ 9 18.1	1.420	2.403	2.4	15.7
2 21	9 12.98	+ 9 11.4	1.429	2.397	6.2	16.0
3 2	9 4.11	+ 9 6.5	1.465	2.392	10.8	16.2
3 12	8 57.73	+ 9 0.1	1.525	2.387	14.9	16.4

495387 2014 QL_{174} 2 8.6 90°.65 0°.5/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.08	+11 8.0	1.671	2.461	16.6	21.6
1 12	9 48.19	+11 32.3	1.593	2.467	13.0	21.3
1 22	9 41.65	+12 11.9	1.535	2.473	8.8	21.1
2 1	9 33.09	+13 2.9	1.504	2.480	4.0	20.8
2 11	9 23.57	+13 58.9	1.500	2.486	1.1	20.6
2 21	9 14.31	+14 53.3	1.524	2.492	5.9	21.0
3 2	9 6.50	+15 40.2	1.575	2.498	10.4	21.2
3 12	9 1.05	+16 15.8	1.649	2.504	14.3	21.5

322848 2001 TC_{190} 2 8.6 126°.99 6°.1/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.21	− 2 40.5	2.020	2.740	16.4	20.7
1 12	9 47.05	− 3 12.5	1.933	2.746	13.8	20.5
1 22	9 40.67	− 3 24.9	1.865	2.752	10.8	20.3
2 1	9 32.61	− 3 16.2	1.822	2.757	7.9	20.2
2 11	9 23.73	− 2 47.5	1.805	2.763	6.1	20.1
2 21	9 15.00	− 2 2.5	1.817	2.768	6.9	20.1
3 2	9 7.40	− 1 6.4	1.855	2.773	9.5	20.3
3 12	9 1.72	− 0 6.1	1.919	2.778	12.4	20.5

31394 1998 YX_{9} 2 8.6 8°.52 1°.3/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.68	+11 0.5	1.088	1.914	21.3	18.5
1 12	9 46.77	+10 57.8	1.021	1.915	16.8	18.3
1 22	9 41.34	+11 14.8	0.972	1.917	11.5	18.0
2 1	9 33.13	+11 48.5	0.944	1.920	5.5	17.6
2 11	9 23.57	+12 31.8	0.939	1.925	1.7	17.4
2 21	9 14.41	+13 16.2	0.959	1.931	7.5	17.8
3 2	9 7.32	+13 54.1	1.001	1.938	13.2	18.1
3 12	9 3.46	+14 19.9	1.062	1.947	18.1	18.4

309869 2009 DB_{89} 2 8.6 263°.53 1°.8/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.51	+ 8 19.9	1.653	2.436	17.1	21.2
1 12	9 47.92	+ 8 30.5	1.562	2.430	13.6	21.0
1 22	9 41.61	+ 8 58.7	1.491	2.424	9.5	20.7
2 1	9 33.15	+ 9 42.1	1.446	2.418	4.9	20.4
2 11	9 23.55	+10 35.7	1.427	2.412	1.9	20.2
2 21	9 14.05	+11 33.1	1.437	2.406	6.0	20.5
3 2	9 5.91	+12 27.5	1.473	2.400	10.7	20.7
3 12	9 0.15	+13 13.5	1.532	2.394	14.8	21.0

123457 2000 WN_{138} 2 8.6 82°.46 0°.9/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.77	+10 44.5	1.937	2.716	15.0	20.1
1 12	9 47.50	+10 56.5	1.860	2.728	11.8	19.9
1 22	9 40.95	+11 21.0	1.805	2.739	8.0	19.7
2 1	9 32.71	+11 55.2	1.777	2.751	3.8	19.5
2 11	9 23.72	+12 34.3	1.777	2.763	1.2	19.3
2 21	9 15.01	+13 13.4	1.807	2.774	5.2	19.6
3 2	9 7.57	+13 48.2	1.864	2.786	9.1	19.9
3 12	9 2.17	+14 15.1	1.946	2.797	12.6	20.1

254060 2004 HM_{6} 2 8.6 321°.94 9°.7/ 1.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.64	+34 41.0	1.567	2.389	16.0	19.4
1 12	9 50.41	+36 27.5	1.496	2.378	13.2	19.2
1 22	9 43.72	+38 11.6	1.447	2.368	10.8	19.1
2 1	9 34.20	+39 40.6	1.423	2.358	9.7	19.0
2 11	9 23.22	+40 42.3	1.423	2.348	10.8	19.0
2 21	9 12.48	+41 9.7	1.448	2.339	13.4	19.1
3 2	9 3.67	+41 1.9	1.494	2.330	16.4	19.3
3 12	8 58.02	+40 23.3	1.558	2.322	19.2	19.5

496412 2013 WB_{106} 2 8.6 45°.74 12°.6/25.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 58.16	+49 3.3	1.949	2.729	14.9	19.8
1 12	9 53.92	+51 30.9	1.924	2.747	13.5	19.7
1 22	9 45.99	+53 40.6	1.923	2.764	12.7	19.7
2 1	9 35.15	+55 20.7	1.945	2.782	12.8	19.7
2 11	9 22.96	+56 23.1	1.989	2.801	13.7	19.8
2 21	9 11.28	+56 45.6	2.055	2.820	15.0	19.9
3 2	9 1.87	+56 31.3	2.139	2.839	16.4	20.1
3 12	8 55.87	+55 47.1	2.238	2.858	17.7	20.3

493733 2015 TU_{177} 2 8.6 65°.64 2°.8/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.99	+ 5 7.5	1.386	2.172	19.6	21.2
1 12	9 47.84	+ 5 27.3	1.311	2.178	15.8	20.9
1 22	9 41.69	+ 6 11.6	1.255	2.185	11.2	20.7
2 1	9 33.21	+ 7 17.8	1.221	2.191	6.1	20.4
2 11	9 23.57	+ 8 39.3	1.214	2.198	2.9	20.2
2 21	9 14.19	+10 6.8	1.234	2.204	6.6	20.5
3 2	9 6.49	+11 30.7	1.279	2.211	11.5	20.8
3 12	9 1.48	+12 43.1	1.346	2.217	15.9	21.0

151534 2002 RM_{104} 2 8.6 102°.39 3°.0/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.50	+ 5 15.1	1.531	2.301	18.8	20.6
1 12	9 50.89	+ 5 23.0	1.462	2.320	15.0	20.4
1 22	9 43.44	+ 5 51.7	1.414	2.338	10.6	20.2
2 1	9 33.88	+ 6 38.9	1.389	2.356	5.9	19.9
2 11	9 23.39	+ 7 39.1	1.392	2.374	3.0	19.8
2 21	9 13.32	+ 8 44.9	1.423	2.391	6.2	20.0
3 2	9 4.93	+ 9 48.9	1.480	2.407	10.6	20.3
3 12	8 59.12	+10 45.0	1.561	2.423	14.6	20.6

379055 2008 WA_{49} 2 8.6 34°.15 5°.4/12.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.35	− 1 38.8	2.052	2.782	15.8	21.2
1 12	9 44.82	− 2 0.7	1.964	2.786	13.3	21.1
1 22	9 39.19	− 2 3.4	1.896	2.790	10.3	20.9
2 1	9 31.98	− 1 46.0	1.852	2.794	7.3	20.7
2 11	9 23.98	− 1 10.1	1.835	2.798	5.5	20.6
2 21	9 16.12	− 0 19.6	1.846	2.802	6.4	20.7
3 2	9 9.32	+ 0 40.0	1.884	2.806	9.0	20.8
3 12	9 4.35	+ 1 42.2	1.947	2.811	12.0	21.0

34130 Isabellaivy 2 8.6 231°.69 1°.8/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.74	+18 8.4	1.722	2.519	15.9	18.9
1 12	9 51.98	+18 30.1	1.631	2.511	12.4	18.7
1 22	9 44.32	+19 0.4	1.561	2.504	8.3	18.4
2 1	9 34.37	+19 33.8	1.518	2.495	3.8	18.1
2 11	9 23.22	+20 3.9	1.504	2.487	2.5	18.0
2 21	9 12.22	+20 25.2	1.517	2.478	7.0	18.3
3 2	9 2.74	+20 34.0	1.558	2.469	11.4	18.5
3 12	8 55.81	+20 29.3	1.622	2.459	15.4	18.8

358077 2006 JM_5 2 8.6 202°.39 0°.3/ 8.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.65	+13 40.7	2.058	2.836	14.3	22.2
1 12	9 49.82	+14 6.2	1.963	2.832	11.2	22.0
1 22	9 42.60	+14 42.6	1.891	2.828	7.5	21.8
2 1	9 33.53	+15 26.2	1.846	2.822	3.3	21.5
2 11	9 23.49	+16 11.6	1.830	2.816	1.2	21.3
2 21	9 13.55	+16 53.7	1.845	2.809	5.5	21.6
3 2	9 4.80	+17 27.9	1.888	2.802	9.6	21.8
3 12	8 58.09	+17 51.7	1.956	2.793	13.1	22.1

425356 2010 BV_{63} 2 8.6 104°.53 2°.5/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.17	+ 2 51.4	2.447	3.189	13.3	20.7
1 12	9 43.54	+ 3 26.9	2.358	3.198	10.7	20.6
1 22	9 38.16	+ 4 19.1	2.292	3.206	7.7	20.4
2 1	9 31.47	+ 5 26.0	2.253	3.215	4.5	20.2
2 11	9 24.15	+ 6 43.5	2.243	3.223	2.5	20.1
2 21	9 16.97	+ 8 6.1	2.264	3.231	4.4	20.2
3 2	9 10.68	+ 9 28.1	2.315	3.239	7.5	20.4
3 12	9 5.89	+10 44.3	2.392	3.247	10.4	20.6

389204 2009 DZ_1 2 8.6 22°.39 0°.0/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.81	+13 7.3	1.993	2.784	14.3	21.2
1 12	9 45.24	+13 26.0	1.913	2.789	11.1	21.0
1 22	9 39.49	+13 55.6	1.854	2.794	7.4	20.8
2 1	9 32.10	+14 32.6	1.822	2.799	3.3	20.6
2 11	9 23.96	+15 12.2	1.819	2.805	1.0	20.4
2 21	9 16.04	+15 49.5	1.844	2.811	5.2	20.7
3 2	9 9.29	+16 20.4	1.897	2.818	9.1	21.0
3 12	9 4.46	+16 42.1	1.974	2.825	12.5	21.2

207744 2007 RY_{247} 2 8.6 98°.85 0°.8/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.42	+15 12.2	2.364	3.147	12.5	21.0
1 12	9 46.08	+15 44.7	2.287	3.161	9.6	20.8
1 22	9 39.83	+16 25.4	2.235	3.174	6.3	20.6
2 1	9 32.19	+17 10.3	2.211	3.188	2.7	20.4
2 11	9 23.94	+17 54.7	2.216	3.201	1.4	20.3
2 21	9 15.93	+18 34.3	2.252	3.214	4.9	20.6
3 2	9 8.96	+19 5.7	2.316	3.227	8.2	20.8
3 12	9 3.69	+19 27.2	2.406	3.239	11.1	21.1

325713 2009 UO_{96} 2 8.6 162°.53 1°.5/ 7.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.40	+17 11.8	2.248	3.035	13.0	21.6
1 12	9 47.82	+17 50.7	2.163	3.039	10.0	21.4
1 22	9 41.11	+18 37.3	2.102	3.043	6.6	21.2
2 1	9 32.81	+19 27.1	2.070	3.046	3.0	21.0
2 11	9 23.75	+20 14.5	2.067	3.049	2.1	20.9
2 21	9 14.86	+20 54.9	2.094	3.052	5.6	21.2
3 2	9 7.09	+21 24.6	2.150	3.054	9.1	21.4
3 12	9 1.17	+21 42.2	2.230	3.056	12.1	21.6

92849 2000 QC_{198} 2 8.6 51°.12 3°.0/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 56.73	+19 58.9	1.293	2.113	18.9	19.2
1 12	9 52.41	+20 27.4	1.236	2.129	14.6	19.0
1 22	9 44.68	+21 3.8	1.200	2.146	9.6	18.8
2 1	9 34.47	+21 40.5	1.187	2.163	4.6	18.5
2 11	9 23.27	+22 9.1	1.200	2.181	3.7	18.5
2 21	9 12.75	+22 23.5	1.239	2.199	8.3	18.9
3 2	9 4.41	+22 21.4	1.303	2.217	12.9	19.2
3 12	8 59.19	+22 3.6	1.388	2.236	16.9	19.5

465488 2008 TU_{84} 2 8.6 208°.01 0°.4/ 8.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.68	+14 30.9	2.734	3.505	11.3	23.0
1 12	9 46.93	+14 57.1	2.632	3.498	8.8	22.8
1 22	9 40.39	+15 31.0	2.555	3.491	5.8	22.6
2 1	9 32.47	+16 9.6	2.506	3.482	2.5	22.4
2 11	9 23.86	+16 49.0	2.488	3.474	1.0	22.2
2 21	9 15.30	+17 25.5	2.502	3.464	4.4	22.5
3 2	9 7.58	+17 55.7	2.545	3.454	7.6	22.7
3 12	9 1.35	+18 17.8	2.615	3.444	10.5	22.8

242102 2002 UZ_{40} 2 8.6 54°.36 1°.2/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.26	+15 14.2	1.430	2.236	18.1	20.7
1 12	9 50.73	+15 48.5	1.381	2.266	13.9	20.5
1 22	9 43.27	+16 34.8	1.352	2.296	9.1	20.3
2 1	9 33.75	+17 26.6	1.349	2.326	3.9	20.0
2 11	9 23.51	+18 16.0	1.372	2.357	2.0	20.0
2 21	9 13.95	+18 56.3	1.423	2.387	6.8	20.4
3 2	9 6.29	+19 23.6	1.500	2.418	11.2	20.7
3 12	9 1.35	+19 36.4	1.599	2.448	15.0	21.0

397524 2007 TN_{127} 2 8.6 141°.43 2°.9/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.83	+ 4 44.1	1.885	2.642	16.2	22.0
1 12	9 48.45	+ 4 53.0	1.801	2.650	13.0	21.8
1 22	9 41.68	+ 5 20.0	1.738	2.658	9.3	21.5
2 1	9 33.11	+ 6 3.3	1.701	2.666	5.4	21.3
2 11	9 23.66	+ 6 58.8	1.692	2.673	2.9	21.2
2 21	9 14.43	+ 8 0.6	1.713	2.680	5.5	21.4
3 2	9 6.46	+ 9 2.6	1.761	2.686	9.4	21.6
3 12	9 0.59	+ 9 59.0	1.834	2.692	13.0	21.8

328536 2009 RQ_{20} 2 8.6 133°.53 1°.9/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.09	+ 7 10.4	2.189	2.949	14.1	21.9
1 12	9 46.76	+ 7 24.7	2.104	2.958	11.2	21.7
1 22	9 40.38	+ 7 53.0	2.042	2.967	7.8	21.5
2 1	9 32.48	+ 8 33.2	2.006	2.975	4.2	21.3
2 11	9 23.87	+ 9 21.4	2.000	2.983	1.9	21.1
2 21	9 15.44	+10 12.8	2.023	2.991	4.7	21.3
3 2	9 8.08	+11 2.5	2.076	2.998	8.3	21.5
3 12	9 2.52	+11 46.4	2.154	3.005	11.5	21.8

14204 1999 AM_{20} 2 8.7 198°.59 1°.2/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.92	+15 29.5	2.454	3.239	12.1	18.1
1 12	9 45.03	+16 22.0	2.362	3.237	9.3	17.9
1 22	9 39.23	+17 23.8	2.295	3.235	6.1	17.7
2 1	9 31.99	+18 30.7	2.256	3.233	2.7	17.5
2 11	9 24.01	+19 37.0	2.248	3.231	1.8	17.4
2 21	9 16.13	+20 37.6	2.270	3.228	5.1	17.7
3 2	9 9.15	+21 28.3	2.320	3.225	8.5	17.9
3 12	9 3.79	+22 6.6	2.397	3.222	11.4	18.0

161256 2003 EP_{53} 2 8.7 268°.90 0°.2/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.55	+10 6.9	2.112	2.888	14.0	20.4
1 12	9 46.00	+10 56.1	1.999	2.867	11.1	20.2
1 22	9 40.19	+12 1.6	1.910	2.845	7.5	19.9
2 1	9 32.54	+13 20.2	1.847	2.823	3.4	19.6
2 11	9 23.81	+14 45.8	1.815	2.801	1.0	19.4
2 21	9 14.97	+16 11.6	1.812	2.778	5.4	19.7
3 2	9 7.07	+17 30.6	1.838	2.755	9.6	19.9
3 12	9 1.01	+18 37.7	1.889	2.731	13.3	20.0

213625 2002 QH_{56} 2 8.7 242°.38 0°.6/ 8.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.99	+13 45.1	2.006	2.790	14.4	22.0
1 12	9 48.74	+14 19.7	1.902	2.775	11.3	21.7
1 22	9 42.03	+15 6.7	1.821	2.760	7.6	21.5
2 1	9 33.35	+16 2.0	1.768	2.745	3.3	21.2
2 11	9 23.57	+16 59.9	1.743	2.728	1.4	21.0
2 21	9 13.77	+17 54.0	1.748	2.712	5.8	21.2
3 2	9 5.09	+18 39.2	1.781	2.695	10.1	21.5
3 12	8 58.46	+19 12.2	1.839	2.677	13.8	21.7

363164 2001 SF_{290} 2 8.7 129°.90 10°.4/18.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.96	−16 59.0	2.128	2.754	18.0	20.6
1 12	9 46.11	−17 46.3	2.042	2.762	16.2	20.4
1 22	9 40.08	−18 7.1	1.972	2.769	14.2	20.3
2 1	9 32.40	−17 57.2	1.922	2.776	12.2	20.2
2 11	9 23.89	−17 15.3	1.895	2.783	10.7	20.1
2 21	9 15.50	−16 3.9	1.893	2.790	10.4	20.1
3 2	9 8.20	−14 29.2	1.917	2.796	11.3	20.1
3 12	9 2.78	−12 40.0	1.965	2.802	13.1	20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
126909 2002 EK_{119}			2 8.7 56°.54	0°.4/ 8.4 18		
	h m	° ′			°	m
1 2	9 53.37	+15 17.1	1.912	2.703	14.8	20.3
1 12	9 48.89	+15 23.6	1.829	2.705	11.5	20.1
1 22	9 41.97	+15 38.7	1.768	2.708	7.6	19.8
2 1	9 33.24	+15 59.0	1.734	2.711	3.4	19.6
2 11	9 23.65	+16 19.9	1.728	2.714	1.2	19.4
2 21	9 14.31	+16 37.1	1.752	2.717	5.6	19.7
3 2	9 6.29	+16 47.3	1.803	2.720	9.7	20.0
3 12	9 0.43	+16 48.9	1.878	2.723	13.2	20.2
64160 2001 TB_{44}			2 8.7 152°.49	6°.0/ 3.5 18		
1 2	9 57.56	+32 1.6	2.340	3.133	12.3	19.3
1 12	9 51.92	+33 8.3	2.271	3.141	9.9	19.1
1 22	9 43.86	+34 12.2	2.228	3.149	7.5	19.0
2 1	9 34.03	+35 5.9	2.211	3.156	6.0	18.9
2 11	9 23.41	+35 42.9	2.224	3.163	6.6	18.9
2 21	9 13.10	+35 59.6	2.266	3.169	8.6	19.1
3 2	9 4.17	+35 55.1	2.334	3.175	11.0	19.2
3 12	8 57.40	+35 31.9	2.424	3.180	13.3	19.4
439718 Danielcervantes			2 8.7 319°.99	6°.2/ 2.6 17		
1 2	9 48.32	+28 8.5	2.031	2.847	13.1	20.8
1 12	9 45.36	+29 47.2	1.944	2.831	10.4	20.6
1 22	9 39.90	+31 30.0	1.882	2.816	7.7	20.4
2 1	9 32.43	+33 7.8	1.847	2.801	6.2	20.2
2 11	9 23.86	+34 31.5	1.840	2.787	7.1	20.3
2 21	9 15.30	+35 34.0	1.860	2.772	9.6	20.4
3 2	9 7.93	+36 11.7	1.905	2.759	12.6	20.6
3 12	9 2.72	+36 24.7	1.972	2.745	15.4	20.7
203837 2002 VM_{46}			2 8.7 59°.27	4°.9/ 4.4 18		
1 2	9 51.14	+26 8.2	2.068	2.876	13.2	19.9
1 12	9 47.12	+27 20.9	2.003	2.888	10.2	19.8
1 22	9 40.76	+28 35.6	1.963	2.900	7.2	19.6
2 1	9 32.68	+29 44.7	1.950	2.912	5.0	19.5
2 11	9 23.83	+30 41.0	1.965	2.924	5.5	19.5
2 21	9 15.28	+31 19.6	2.008	2.937	8.0	19.7
3 2	9 8.05	+31 38.4	2.078	2.949	10.9	19.9
3 12	9 2.90	+31 38.2	2.170	2.962	13.6	20.1
165877 2001 SH_{137}			2 8.7 140°.57	3°.9/12.8 18		
1 2	9 47.79	− 1 17.0	2.772	3.483	12.5	20.4
1 12	9 43.80	− 1 11.9	2.679	3.492	10.4	20.2
1 22	9 38.23	− 0 51.2	2.609	3.500	7.9	20.1
2 1	9 31.49	− 0 15.4	2.565	3.508	5.5	19.9
2 11	9 24.21	+ 0 33.4	2.550	3.516	3.9	19.8
2 21	9 17.04	+ 1 31.6	2.565	3.523	4.7	19.9
3 2	9 10.66	+ 2 34.8	2.610	3.530	7.0	20.0
3 12	9 5.62	+ 3 38.3	2.682	3.536	9.5	20.2
184753 2005 SF_{253}			2 8.7 88°.72	3°.9/ 5.7 18		
1 2	9 54.53	+22 58.3	1.894	2.697	14.4	20.0
1 12	9 49.81	+23 58.6	1.831	2.715	11.1	19.8
1 22	9 42.56	+25 3.1	1.792	2.733	7.5	19.6
2 1	9 33.48	+26 4.4	1.780	2.750	4.4	19.4
2 11	9 23.63	+26 55.1	1.797	2.767	4.5	19.5
2 21	9 14.18	+27 30.1	1.842	2.784	7.6	19.7
3 2	9 6.22	+27 46.9	1.914	2.801	10.9	19.9
3 12	9 0.56	+27 46.2	2.009	2.818	13.9	20.2
26777 1225 $T\text{-}_2$			2 8.7 133°.28	2°.1/10.4 18		
1 2	9 52.50	+ 5 57.9	2.201	2.953	14.3	19.8
1 12	9 47.80	+ 6 16.2	2.119	2.967	11.4	19.6
1 22	9 41.05	+ 6 49.6	2.059	2.981	8.0	19.4
2 1	9 32.79	+ 7 35.7	2.027	2.994	4.4	19.2
2 11	9 23.83	+ 8 30.6	2.024	3.006	2.1	19.1
2 21	9 15.08	+ 9 29.0	2.051	3.018	4.7	19.3
3 2	9 7.44	+10 26.0	2.107	3.029	8.3	19.5
3 12	9 1.61	+11 17.0	2.189	3.039	11.5	19.7
461245 2015 WU_{15}			2 8.7 32°.94	5°.3/11.8 18		
1 2	9 51.41	+ 2 12.0	1.444	2.215	19.7	20.3
1 12	9 48.08	+ 1 46.1	1.366	2.218	16.2	20.1
1 22	9 41.84	+ 1 42.8	1.305	2.222	12.1	19.8
2 1	9 33.31	+ 2 3.0	1.267	2.225	7.9	19.6
2 11	9 23.65	+ 2 43.9	1.255	2.229	5.3	19.5
2 21	9 14.21	+ 3 39.6	1.268	2.234	7.2	19.6
3 2	9 6.35	+ 4 42.2	1.307	2.238	11.4	19.8
3 12	9 1.10	+ 5 43.5	1.368	2.243	15.4	20.1
471123 2010 CO_{213}			2 8.7 317°.98	10°.6/13.8 16		
1 2	9 51.23	− 9 11.5	1.959	2.644	17.8	21.6
1 12	9 47.56	−10 55.9	1.847	2.620	15.9	21.4
1 22	9 41.41	−12 23.3	1.755	2.596	13.8	21.2
2 1	9 33.18	−13 27.7	1.685	2.572	11.8	21.0
2 11	9 23.65	−14 4.9	1.639	2.549	10.7	20.9
2 21	9 13.89	−14 13.3	1.618	2.527	11.0	20.8
3 2	9 5.08	−13 55.2	1.621	2.505	12.8	20.9
3 12	8 58.27	−13 16.9	1.646	2.484	15.2	21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
313034 2000 KM_{75}			2 8.7 295°.97	5°.2/ 4.4 18		
	h m	° ′			°	m
1 2	9 50.40	+22 34.7	1.684	2.501	15.3	19.8
1 12	9 47.52	+24 8.0	1.585	2.478	12.0	19.5
1 22	9 41.70	+25 53.1	1.510	2.454	8.3	19.2
2 1	9 33.39	+27 40.9	1.461	2.430	5.5	19.0
2 11	9 23.59	+29 19.9	1.439	2.406	6.2	19.0
2 21	9 13.64	+30 40.0	1.445	2.382	9.8	19.1
3 2	9 5.01	+31 34.8	1.476	2.358	13.9	19.3
3 12	8 58.94	+32 2.7	1.527	2.334	17.7	19.5
99550 2002 EJ_{128}			2 8.7 205°.11	3°.0/ 6.6 18		
1 2	9 54.04	+19 14.9	1.678	2.484	15.9	20.2
1 12	9 49.95	+20 7.1	1.596	2.482	12.3	19.9
1 22	9 43.00	+21 9.0	1.537	2.481	8.2	19.7
2 1	9 33.82	+22 13.4	1.503	2.479	4.1	19.4
2 11	9 23.51	+23 12.1	1.498	2.477	3.7	19.4
2 21	9 13.41	+23 57.9	1.520	2.475	7.7	19.6
3 2	9 4.84	+24 26.4	1.569	2.472	11.9	19.9
3 12	8 58.80	+24 36.7	1.640	2.470	15.6	20.1
397472 2007 MV_9			2 8.7 100°.59	1°.4/ 9.7 17		
1 2	9 56.61	+ 8 21.3	1.890	2.653	15.9	21.5
1 12	9 51.12	+ 8 45.6	1.825	2.683	12.5	21.3
1 22	9 43.28	+ 9 24.9	1.783	2.712	8.5	21.1
2 1	9 33.76	+10 15.6	1.768	2.740	4.2	20.9
2 11	9 23.58	+11 12.3	1.782	2.767	1.5	20.8
2 21	9 13.83	+12 9.0	1.826	2.793	5.2	21.1
3 2	9 5.53	+13 0.4	1.899	2.819	9.1	21.4
3 12	8 59.42	+13 42.9	1.996	2.843	12.5	21.6
434945 2006 UN_{15}			2 8.7 194°.94	4°.6/13.3 17		
1 2	9 47.09	− 2 54.5	2.740	3.444	12.8	21.3
1 12	9 43.36	− 3 4.5	2.639	3.443	10.8	21.2
1 22	9 38.00	− 2 58.7	2.561	3.442	8.4	21.0
2 1	9 31.44	− 2 36.6	2.507	3.441	6.1	20.9
2 11	9 24.27	− 1 59.7	2.482	3.439	4.7	20.8
2 21	9 17.16	− 1 10.8	2.486	3.438	5.3	20.8
3 2	9 10.81	− 0 14.2	2.519	3.436	7.4	20.9
3 12	9 5.81	+ 0 45.4	2.579	3.434	9.8	21.1
10117 Tanikawa			2 8.7 106°.17	3°.6/11.9 18		
1 2	9 48.54	+ 1 12.8	2.338	3.072	14.0	18.2
1 12	9 44.67	+ 1 21.0	2.252	3.083	11.5	18.0
1 22	9 38.95	+ 1 46.0	2.188	3.093	8.5	17.8
2 1	9 31.87	+ 2 27.0	2.149	3.103	5.5	17.7
2 11	9 24.15	+ 3 20.9	2.140	3.113	3.6	17.6
2 21	9 16.59	+ 4 23.2	2.160	3.123	4.9	17.7
3 2	9 9.98	+ 5 28.7	2.209	3.133	7.8	17.9
3 12	9 4.98	+ 6 32.1	2.284	3.142	10.7	18.1
147335 2003 BK_{49}			2 8.7 40°.95	1°.4/ 7.8 18		
1 2	9 51.93	+15 57.1	1.478	2.289	17.4	20.1
1 12	9 48.35	+16 30.0	1.414	2.302	13.4	19.8
1 22	9 41.89	+17 14.7	1.370	2.315	8.8	19.6
2 1	9 33.27	+18 5.3	1.351	2.329	3.9	19.3
2 11	9 23.73	+18 54.1	1.359	2.344	2.2	19.3
2 21	9 14.63	+19 34.2	1.394	2.358	6.9	19.6
3 2	9 7.25	+20 1.1	1.455	2.374	11.5	19.9
3 12	9 2.48	+20 13.1	1.538	2.389	15.3	20.2
413883 2006 VQ_{59}			2 8.7 196°.54	6°.8/ 2.9 18		
1 2	9 55.68	+30 47.7	1.978	2.783	13.8	20.9
1 12	9 51.07	+32 15.9	1.904	2.782	11.0	20.7
1 22	9 43.68	+33 44.1	1.854	2.780	8.4	20.5
2 1	9 34.12	+35 2.6	1.830	2.778	6.9	20.4
2 11	9 23.47	+36 2.7	1.835	2.775	7.6	20.5
2 21	9 13.03	+36 38.5	1.867	2.772	10.0	20.6
3 2	9 4.08	+36 48.5	1.924	2.769	12.9	20.8
3 12	8 57.59	+36 34.9	2.002	2.766	15.5	21.0
302059 2000 UH_{69}			2 8.7 118°.46	1°.3/ 9.6 18		
1 2	9 56.47	+ 9 18.5	1.934	2.699	15.5	21.6
1 12	9 51.08	+ 9 31.2	1.861	2.720	12.2	21.5
1 22	9 43.32	+ 9 57.6	1.811	2.740	8.3	21.3
2 1	9 33.82	+10 34.6	1.787	2.759	4.1	21.0
2 11	9 23.60	+11 17.5	1.792	2.777	1.5	20.9
2 21	9 13.72	+12 1.2	1.828	2.795	5.2	21.2
3 2	9 5.23	+12 40.9	1.892	2.812	9.2	21.4
3 12	8 58.90	+13 13.1	1.981	2.828	12.6	21.7
32470 2000 SD_{190}			2 8.7 37°.81	1°.0/ 9.6 18		
1 2	9 46.94	+ 8 31.9	2.296	3.067	13.2	19.1
1 12	9 43.57	+ 9 9.3	2.207	3.070	10.4	18.9
1 22	9 38.31	+10 0.6	2.141	3.072	7.1	18.7
2 1	9 31.63	+11 3.0	2.102	3.075	3.5	18.5
2 11	9 24.25	+12 11.6	2.093	3.078	1.1	18.3
2 21	9 17.00	+13 20.9	2.113	3.082	4.5	18.6
3 2	9 10.69	+14 25.7	2.163	3.085	8.1	18.8
3 12	9 5.99	+15 21.9	2.238	3.088	11.2	19.0

265750 2005 VK_{39} 2 8.7 52°.81 5°.0/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.20	+ 2 43.4	1.650	2.408	18.1	20.4
1 12	9 48.91	+ 2 4.6	1.582	2.426	14.8	20.2
1 22	9 42.05	+ 1 44.6	1.533	2.445	11.0	20.1
2 1	9 33.31	+ 1 44.0	1.509	2.464	7.2	19.9
2 11	9 23.76	+ 2 0.6	1.510	2.483	5.0	19.8
2 21	9 14.60	+ 2 30.3	1.540	2.502	6.6	19.9
3 2	9 6.94	+ 3 7.3	1.595	2.521	10.1	20.2
3 12	9 1.61	+ 3 45.5	1.675	2.541	13.6	20.4

429329 2010 ED_{113} 2 8.7 279°.59 5°.1/ 4.2 17

1 2	9 52.56	+28 27.3	2.278	3.080	12.3	21.2
1 12	9 48.28	+29 24.1	2.186	3.066	9.7	21.0
1 22	9 41.64	+30 21.8	2.119	3.052	7.1	20.8
2 1	9 33.18	+31 13.6	2.079	3.037	5.2	20.6
2 11	9 23.78	+31 53.0	2.068	3.023	5.7	20.6
2 21	9 14.47	+32 15.2	2.085	3.008	8.1	20.8
3 2	9 6.32	+32 18.3	2.128	2.994	11.0	20.9
3 12	9 0.19	+32 3.1	2.195	2.979	13.7	21.1

522194 2016 AU_{260} 2 8.7 252°.76 1°.3/ 7.5 17

1 2	9 50.12	+14 19.6	2.079	2.868	13.8	21.8
1 12	9 46.46	+15 22.6	1.978	2.855	10.7	21.5
1 22	9 40.51	+16 39.2	1.901	2.842	7.1	21.3
2 1	9 32.72	+18 4.4	1.851	2.828	3.1	21.0
2 11	9 23.91	+19 31.0	1.831	2.814	2.0	20.9
2 21	9 15.07	+20 51.6	1.841	2.800	6.0	21.1
3 2	9 7.26	+22 0.2	1.879	2.786	10.0	21.3
3 12	9 1.38	+22 53.2	1.941	2.771	13.5	21.5

40476 1999 RH_{53} 2 8.7 77°.18 2°.6/10.5 18

1 2	9 51.94	+ 5 24.9	1.582	2.357	18.0	18.4
1 12	9 48.12	+ 5 43.3	1.512	2.373	14.4	18.2
1 22	9 41.64	+ 6 22.5	1.462	2.389	10.2	18.0
2 1	9 33.18	+ 7 19.9	1.436	2.404	5.6	17.7
2 11	9 23.82	+ 8 29.5	1.437	2.420	2.6	17.6
2 21	9 14.80	+ 9 43.6	1.466	2.436	5.9	17.8
3 2	9 7.31	+10 54.6	1.522	2.451	10.3	18.1
3 12	9 2.21	+11 56.3	1.602	2.467	14.1	18.4

133665 2003 UE_{184} 2 8.7 186°.51 2°.3/10.6 18

1 2	9 49.42	+ 5 54.0	2.328	3.083	13.5	20.4
1 12	9 45.46	+ 6 2.4	2.234	3.082	10.9	20.2
1 22	9 39.56	+ 6 24.8	2.161	3.082	7.7	20.0
2 1	9 32.20	+ 6 59.7	2.116	3.081	4.4	19.8
2 11	9 24.11	+ 7 43.9	2.099	3.081	2.3	19.6
2 21	9 16.12	+ 8 33.0	2.113	3.080	4.6	19.8
3 2	9 9.08	+ 9 22.6	2.155	3.079	8.0	20.0
3 12	9 3.67	+10 8.3	2.223	3.077	11.1	20.2

211147 2002 GA_{114} 2 8.7 238°.67 0°.7/ 8.1 18

1 2	9 52.30	+13 14.4	1.818	2.608	15.4	20.8
1 12	9 48.45	+14 0.6	1.722	2.598	12.1	20.6
1 22	9 41.99	+15 1.6	1.648	2.588	8.1	20.3
2 1	9 33.42	+16 12.7	1.600	2.577	3.5	20.0
2 11	9 23.71	+17 26.8	1.581	2.566	1.6	19.8
2 21	9 14.01	+18 36.2	1.591	2.555	6.3	20.1
3 2	9 5.56	+19 34.7	1.628	2.543	10.8	20.4
3 12	8 59.35	+20 18.3	1.689	2.531	14.7	20.6

165783 2001 RQ_{1} 2 8.7 127°.18 2°.3/10.9 18 R

1 2	9 48.11	+ 4 38.8	2.543	3.289	12.7	20.5
1 12	9 44.23	+ 4 57.5	2.453	3.297	10.2	20.3
1 22	9 38.62	+ 5 30.3	2.387	3.304	7.3	20.1
2 1	9 31.74	+ 6 15.5	2.348	3.312	4.2	19.9
2 11	9 24.26	+ 7 9.6	2.339	3.319	2.3	19.8
2 21	9 16.91	+ 8 8.4	2.359	3.326	4.2	20.0
3 2	9 10.43	+ 9 7.3	2.410	3.333	7.3	20.2
3 12	9 5.43	+10 2.1	2.486	3.340	10.1	20.3

695 Bella 2 8.7 135°.05 5°.3/12.3 18 R

1 2	9 55.03	− 0 10.0	2.102	2.823	15.8	14.0
1 12	9 49.89	− 0 50.0	2.016	2.834	13.1	13.9
1 22	9 42.53	− 1 13.3	1.952	2.845	10.1	13.7
2 1	9 33.52	− 1 19.0	1.913	2.855	7.1	13.5
2 11	9 23.72	− 1 7.7	1.902	2.864	5.4	13.4
2 21	9 14.11	− 0 42.6	1.920	2.873	6.4	13.5
3 2	9 5.68	− 0 7.9	1.966	2.881	9.1	13.7
3 12	8 59.19	+ 0 31.0	2.038	2.889	12.1	13.9

111171 2001 VL_{120} 2 8.7 122°.11 2°.5/ 6.6 18

1 2	9 54.70	+20 14.2	2.301	3.088	12.7	20.4
1 12	9 49.48	+21 2.7	2.230	3.107	9.7	20.2
1 22	9 42.15	+21 56.3	2.185	3.124	6.4	20.1
2 1	9 33.30	+22 49.6	2.168	3.142	3.3	19.9
2 11	9 23.80	+23 36.7	2.181	3.158	3.0	19.9
2 21	9 14.60	+24 13.3	2.225	3.174	5.9	20.1
3 2	9 6.60	+24 36.8	2.297	3.190	9.1	20.3
3 12	9 0.50	+24 46.7	2.394	3.204	11.9	20.5

110555 2001 TX_{105} 2 8.7 18°.11 12°.8/17.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.76	−11 57.1	1.401	2.110	22.8	18.3
1 12	9 45.35	−13 40.4	1.335	2.118	20.3	18.2
1 22	9 40.08	−14 53.0	1.283	2.128	17.6	18.0
2 1	9 32.59	−15 28.0	1.251	2.139	15.0	17.9
2 11	9 24.00	−15 22.0	1.238	2.151	13.2	17.8
2 21	9 15.66	−14 37.6	1.247	2.164	13.0	17.8
3 2	9 8.89	−13 22.4	1.278	2.178	14.3	17.9
3 12	9 4.71	−11 48.4	1.330	2.194	16.5	18.1

21493 1998 JA_{2} 2 8.7 260°.00 1°.9/ 7.4 18

1 2	9 53.82	+17 26.5	1.755	2.554	15.5	18.5
1 12	9 49.78	+18 2.4	1.659	2.542	12.1	18.3
1 22	9 42.95	+18 48.7	1.586	2.529	8.1	18.0
2 1	9 33.88	+19 40.1	1.539	2.516	3.7	17.7
2 11	9 23.59	+20 29.4	1.520	2.502	2.6	17.6
2 21	9 13.35	+21 10.0	1.529	2.489	7.0	17.8
3 2	9 4.47	+21 37.1	1.565	2.475	11.4	18.0
3 12	8 58.00	+21 48.9	1.623	2.461	15.4	18.3

69865 1998 SO_{60} 2 8.7 157°.80 0°.2/ 8.5 18

1 2	9 50.73	+13 18.1	2.434	3.209	12.4	20.2
1 12	9 46.37	+13 47.0	2.346	3.214	9.7	20.0
1 22	9 40.11	+14 25.3	2.282	3.219	6.4	19.8
2 1	9 32.43	+15 9.5	2.246	3.223	2.8	19.6
2 11	9 24.07	+15 55.4	2.241	3.226	1.0	19.4
2 21	9 15.87	+16 38.6	2.265	3.230	4.6	19.7
3 2	9 8.63	+17 15.3	2.319	3.233	8.0	19.9
3 12	9 3.03	+17 43.1	2.399	3.235	11.0	20.1

340643 2006 QZ_{163} 2 8.7 97°.73 0°.9/ 9.5 18

1 2	9 49.98	+10 15.5	2.581	3.345	12.1	21.2
1 12	9 45.56	+10 28.1	2.503	3.362	9.5	21.1
1 22	9 39.43	+10 50.5	2.449	3.378	6.4	20.9
2 1	9 32.07	+11 20.2	2.422	3.395	3.1	20.7
2 11	9 24.19	+11 54.0	2.425	3.411	1.1	20.5
2 21	9 16.52	+12 28.3	2.459	3.426	4.1	20.8
3 2	9 9.79	+12 59.8	2.523	3.442	7.2	21.0
3 12	9 4.57	+13 25.8	2.612	3.457	10.0	21.2

433837 2015 BG_{249} 2 8.7 264°.80 0°.5/ 8.3 17

1 2	9 49.71	+13 59.8	2.151	2.938	13.5	21.3
1 12	9 45.91	+14 31.3	2.061	2.936	10.5	21.1
1 22	9 39.98	+15 13.3	1.995	2.934	6.9	20.9
2 1	9 32.43	+16 2.0	1.955	2.932	3.0	20.6
2 11	9 24.07	+16 52.1	1.944	2.930	1.2	20.5
2 21	9 15.84	+17 38.6	1.963	2.928	5.2	20.7
3 2	9 8.67	+18 17.1	2.011	2.926	9.0	21.0
3 12	9 3.34	+18 45.0	2.082	2.924	12.3	21.2

501079 2013 SE_{54} 2 8.7 189°.61 3°.3/ 6.3 18

1 2	9 54.25	+22 58.5	2.098	2.896	13.4	20.8
1 12	9 49.52	+23 33.6	2.015	2.896	10.4	20.6
1 22	9 42.41	+24 12.3	1.956	2.896	7.0	20.4
2 1	9 33.50	+24 48.8	1.923	2.895	3.9	20.2
2 11	9 23.75	+25 17.2	1.920	2.895	3.8	20.2
2 21	9 14.23	+25 33.3	1.946	2.894	6.8	20.4
3 2	9 6.00	+25 35.0	2.000	2.893	10.2	20.6
3 12	8 59.87	+25 22.3	2.077	2.892	13.3	20.8

404187 2013 CC_{112} 2 8.7 268°.54 1°.5/ 7.8 14 C

1 2	9 56.06	+16 52.3	1.746	2.541	15.8	21.6
1 12	9 51.70	+17 14.6	1.639	2.518	12.4	21.3
1 22	9 44.38	+17 47.2	1.553	2.494	8.4	21.0
2 1	9 34.60	+18 25.5	1.493	2.470	3.8	20.7
2 11	9 23.36	+19 3.0	1.461	2.445	2.2	20.5
2 21	9 12.01	+19 33.3	1.458	2.420	7.0	20.8
3 2	9 1.97	+19 52.0	1.482	2.395	11.8	21.0
3 12	8 54.43	+19 56.7	1.529	2.368	16.0	21.2

296336 2009 EA_{26} 2 8.7 261°.31 5°.1/13.8 18

1 2	9 46.39	− 4 23.0	2.548	3.251	13.7	20.9
1 12	9 43.00	− 4 26.4	2.446	3.247	11.6	20.7
1 22	9 37.89	− 4 11.4	2.364	3.242	9.2	20.5
2 1	9 31.46	− 3 37.5	2.308	3.238	6.8	20.4
2 11	9 24.36	− 2 46.1	2.279	3.234	5.2	20.3
2 21	9 17.32	− 1 40.9	2.279	3.230	5.7	20.3
3 2	9 11.07	− 0 26.9	2.307	3.225	7.8	20.4
3 12	9 6.25	+ 0 50.1	2.362	3.221	10.4	20.6

472502 2015 CS_{23} 2 8.7 286°.08 1°.9/10.4 17

1 2	9 47.62	+ 6 28.1	2.245	3.008	13.7	21.4
1 12	9 44.20	+ 6 49.9	2.148	3.003	11.0	21.2
1 22	9 38.81	+ 7 26.8	2.073	2.998	7.7	21.0
2 1	9 31.90	+ 8 16.9	2.025	2.993	4.2	20.8
2 11	9 24.23	+ 9 16.2	2.005	2.989	1.9	20.6
2 21	9 16.62	+10 19.6	2.016	2.984	4.6	20.8
3 2	9 9.95	+11 21.7	2.054	2.979	8.2	21.0
3 12	9 4.95	+12 17.8	2.119	2.975	11.5	21.2

443658 2015 FY_{115} 2 8.7 298°.37 5°.4/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.37	− 5 51.0	2.307	3.009	15.0	20.2
1 12	9 43.18	− 5 33.9	2.206	3.006	12.8	20.1
1 22	9 38.11	− 4 54.0	2.125	3.003	10.1	19.9
2 1	9 31.59	− 3 50.9	2.068	2.999	7.4	19.7
2 11	9 24.33	− 2 27.1	2.039	2.996	5.5	19.6
2 21	9 17.12	− 0 47.8	2.039	2.993	6.0	19.6
3 2	9 10.80	+ 1 0.1	2.068	2.990	8.4	19.7
3 12	9 6.07	+ 2 48.7	2.124	2.988	11.2	19.9

182622 2001 UN_{106} 2 8.7 179°.28 1°.2/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.16	+ 8 57.9	2.044	2.815	14.6	20.9
1 12	9 47.09	+ 9 18.6	1.954	2.816	11.6	20.7
1 22	9 40.80	+ 9 53.7	1.886	2.817	8.0	20.5
2 1	9 32.81	+10 40.4	1.844	2.817	3.9	20.2
2 11	9 23.96	+11 34.1	1.831	2.817	1.4	20.1
2 21	9 15.24	+12 29.3	1.848	2.816	5.0	20.3
3 2	9 7.65	+13 20.8	1.893	2.816	9.0	20.5
3 12	9 1.97	+14 4.4	1.964	2.815	12.5	20.8

67374 2000 NE_{14} 2 8.7 148°.09 0°.0/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.23	+11 54.1	2.000	2.774	14.8	20.8
1 12	9 50.22	+12 27.5	1.918	2.785	11.6	20.6
1 22	9 42.84	+13 13.4	1.860	2.795	7.7	20.4
2 1	9 33.69	+14 7.9	1.829	2.805	3.4	20.2
2 11	9 23.71	+15 5.2	1.827	2.813	1.0	20.0
2 21	9 13.96	+15 59.4	1.856	2.821	5.4	20.3
3 2	9 5.49	+16 45.7	1.914	2.829	9.4	20.6
3 12	8 59.10	+17 21.0	1.996	2.835	12.8	20.8

456452 2006 VR_{108} 2 8.7 118°.35 0°.7/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.71	+11 1.6	2.102	2.871	14.3	22.3
1 12	9 49.59	+11 18.0	2.027	2.889	11.2	22.1
1 22	9 42.28	+11 45.9	1.975	2.907	7.6	21.9
2 1	9 33.39	+12 22.2	1.950	2.924	3.5	21.7
2 11	9 23.81	+13 2.2	1.955	2.940	1.0	21.6
2 21	9 14.54	+13 41.4	1.990	2.956	4.9	21.9
3 2	9 6.51	+14 15.7	2.053	2.972	8.7	22.1
3 12	9 0.44	+14 42.2	2.143	2.986	11.9	22.4

383654 2007 TD_{52} 2 8.7 59°.19 4°.8/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.53	+27 38.8	2.135	2.938	13.0	20.6
1 12	9 48.89	+28 26.6	2.067	2.948	10.1	20.5
1 22	9 41.92	+29 14.3	2.024	2.959	7.2	20.3
2 1	9 33.25	+29 55.2	2.007	2.969	5.0	20.2
2 11	9 23.86	+30 23.4	2.020	2.980	5.3	20.2
2 21	9 14.83	+30 35.0	2.060	2.990	7.7	20.4
3 2	9 7.16	+30 29.1	2.127	3.001	10.6	20.6
3 12	9 1.59	+30 6.9	2.217	3.012	13.2	20.8

1286 Banachiewicza 2 8.7 194°.33 3°.5/12.0 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.23	+ 1 12.4	2.563	3.292	13.0	16.3
1 12	9 44.37	+ 1 14.0	2.464	3.291	10.7	16.1
1 22	9 38.77	+ 1 30.9	2.386	3.289	8.0	15.9
2 1	9 31.85	+ 2 2.5	2.336	3.287	5.3	15.7
2 11	9 24.27	+ 2 46.6	2.313	3.285	3.5	15.6
2 21	9 16.76	+ 3 39.6	2.321	3.283	4.8	15.7
3 2	9 10.07	+ 4 36.9	2.358	3.281	7.5	15.9
3 12	9 4.84	+ 5 33.8	2.422	3.278	10.3	16.0

299325 2005 QR_{141} 2 8.7 250°.58 0°.5/ 8.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.98	+13 57.9	2.568	3.348	11.7	21.1
1 12	9 44.25	+14 32.3	2.471	3.343	9.1	20.9
1 22	9 38.73	+15 15.7	2.399	3.337	6.0	20.7
2 1	9 31.85	+16 4.8	2.355	3.331	2.6	20.5
2 11	9 24.28	+16 55.4	2.340	3.326	1.1	20.3
2 21	9 16.79	+17 43.1	2.357	3.320	4.6	20.6
3 2	9 10.15	+18 24.0	2.402	3.314	7.9	20.8
3 12	9 5.01	+18 55.6	2.472	3.308	10.8	20.9

1006 Lagrangea 2 8.7 78°.84 2°.0/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.87	+ 7 25.9	2.474	3.221	13.0	16.6
1 12	9 48.45	+ 7 19.1	2.409	3.254	10.3	16.4
1 22	9 41.26	+ 7 23.2	2.367	3.287	7.2	16.3
2 1	9 32.87	+ 7 36.8	2.354	3.320	4.0	16.1
2 11	9 24.04	+ 7 57.0	2.371	3.352	2.0	16.0
2 21	9 15.55	+ 8 20.7	2.418	3.384	4.2	16.2
3 2	9 8.14	+ 8 44.7	2.495	3.415	7.2	16.5
3 12	9 2.39	+ 9 6.1	2.599	3.446	10.0	16.7

135417 2001 UB_{31} 2 8.7 182°.31 8°.7/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.60	+43 31.9	2.564	3.341	11.8	19.7
1 12	9 52.26	+44 55.8	2.503	3.341	10.2	19.6
1 22	9 44.31	+46 10.3	2.467	3.341	9.0	19.5
2 1	9 34.39	+47 7.4	2.457	3.341	8.7	19.5
2 11	9 23.55	+47 40.8	2.472	3.341	9.4	19.5
2 21	9 13.02	+47 47.6	2.514	3.340	10.7	19.6
3 2	9 3.95	+47 28.5	2.578	3.339	12.4	19.7
3 12	8 57.22	+46 47.1	2.662	3.338	14.0	19.8

477579 2010 JH_{15} 2 8.7 59°.53 20°.4/23.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	10 3.40	+48 0.3	0.972	1.799	23.2	19.9
1 12	10 1.59	+51 59.1	0.953	1.809	21.3	19.8
1 22	9 53.24	+55 29.4	0.953	1.819	20.5	19.8
2 1	9 39.11	+58 5.5	0.971	1.829	20.9	19.9
2 11	9 22.10	+59 30.2	1.006	1.840	22.4	20.0
2 21	9 6.33	+59 41.8	1.057	1.851	24.3	20.2
3 2	8 55.31	+58 50.8	1.119	1.862	26.3	20.4
3 12	8 50.62	+57 14.1	1.192	1.874	28.0	20.6

194276 2001 UJ_{24} 2 8.7 161°.99 0°.7/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.58	+12 15.7	1.768	2.547	16.3	20.6
1 12	9 52.39	+12 18.5	1.684	2.552	12.8	20.4
1 22	9 44.48	+12 33.1	1.622	2.556	8.7	20.2
2 1	9 34.50	+12 56.6	1.585	2.560	4.0	19.9
2 11	9 23.52	+13 24.0	1.578	2.564	1.2	19.7
2 21	9 12.80	+13 50.6	1.599	2.566	5.8	20.0
3 2	9 3.56	+14 12.1	1.649	2.569	10.3	20.3
3 12	8 56.73	+14 25.6	1.722	2.570	14.1	20.5

182549 2001 TG_{86} 2 8.7 178°.95 0°.6/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.18	+11 15.0	2.274	3.042	13.4	21.3
1 12	9 48.42	+11 30.7	2.181	3.043	10.5	21.1
1 22	9 41.58	+11 57.2	2.112	3.044	7.1	20.9
2 1	9 33.14	+12 31.8	2.071	3.045	3.4	20.6
2 11	9 23.93	+13 10.5	2.059	3.045	1.0	20.4
2 21	9 14.86	+13 48.8	2.078	3.044	4.8	20.7
3 2	9 6.84	+14 22.9	2.125	3.043	8.4	20.9
3 12	9 0.61	+14 49.8	2.199	3.041	11.7	21.1

432116 2009 BG_{18} 2 8.7 293°.37 0°.1/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.19	+12 48.8	2.208	2.991	13.3	21.9
1 12	9 45.51	+13 8.5	2.109	2.981	10.4	21.7
1 22	9 39.75	+13 38.7	2.034	2.971	7.0	21.4
2 1	9 32.37	+14 16.6	1.985	2.961	3.1	21.2
2 11	9 24.16	+14 57.8	1.966	2.952	0.9	21.0
2 21	9 16.02	+15 37.5	1.976	2.942	5.0	21.2
3 2	9 8.86	+16 11.7	2.014	2.932	8.8	21.5
3 12	9 3.47	+16 37.4	2.076	2.923	12.1	21.6

455771 2005 NA_{68} 2 8.7 226°.68 2°.4/ 6.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.42	+19 32.9	2.185	2.974	13.2	22.1
1 12	9 49.69	+20 14.3	2.086	2.964	10.2	21.9
1 22	9 42.60	+21 2.7	2.012	2.953	6.8	21.7
2 1	9 33.67	+21 53.0	1.966	2.941	3.4	21.4
2 11	9 23.77	+22 39.0	1.950	2.929	2.9	21.4
2 21	9 13.92	+23 15.5	1.963	2.916	6.3	21.6
3 2	9 5.18	+23 39.0	2.004	2.902	10.0	21.8
3 12	8 58.44	+23 48.3	2.070	2.888	13.2	22.0

114587 2003 BQ_{82} 2 8.7 335°.35 2°.4/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.86	+21 29.4	1.538	2.347	16.9	19.2
1 12	9 53.21	+21 20.1	1.452	2.338	13.3	18.9
1 22	9 45.35	+21 13.7	1.387	2.330	8.9	18.6
2 1	9 34.98	+21 5.3	1.347	2.323	4.3	18.4
2 11	9 23.39	+20 49.5	1.334	2.316	3.0	18.3
2 21	9 12.12	+20 22.9	1.348	2.310	7.5	18.5
3 2	9 2.64	+19 44.7	1.388	2.304	12.2	18.8
3 12	8 56.03	+18 56.0	1.451	2.299	16.3	19.0

496348 2013 QU_{47} 2 8.7 184°.88 3°.2/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.23	+ 0 58.8	2.688	3.408	12.7	22.9
1 12	9 45.84	+ 1 15.5	2.586	3.408	10.4	22.7
1 22	9 39.72	+ 1 47.8	2.506	3.408	7.7	22.5
2 1	9 32.30	+ 2 34.8	2.454	3.407	5.0	22.3
2 11	9 24.21	+ 3 33.8	2.431	3.405	3.2	22.2
2 21	9 16.18	+ 4 40.6	2.440	3.402	4.5	22.3
3 2	9 8.95	+ 5 50.5	2.478	3.399	7.3	22.5
3 12	9 3.15	+ 6 58.6	2.545	3.395	10.0	22.6

242807 2006 BQ_{93} 2 8.7 252°.74 0°.8/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.48	+10 15.5	1.827	2.605	15.8	21.4
1 12	9 49.45	+10 37.2	1.720	2.588	12.6	21.2
1 22	9 42.75	+11 14.6	1.635	2.569	8.7	20.9
2 1	9 33.86	+12 5.0	1.576	2.551	4.1	20.6
2 11	9 23.71	+13 3.2	1.545	2.531	1.2	20.3
2 21	9 13.46	+14 2.5	1.543	2.511	5.9	20.6
3 2	9 4.38	+14 56.7	1.569	2.491	10.6	20.8
3 12	8 57.53	+15 40.9	1.619	2.470	14.8	21.0

319395 2006 FP_{7} 2 8.7 295°.57 0°.5/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.87	+11 24.5	2.101	2.881	14.0	21.4
1 12	9 46.07	+11 45.5	2.011	2.880	11.0	21.2
1 22	9 40.12	+12 18.6	1.944	2.880	7.4	21.0
2 1	9 32.54	+13 0.6	1.904	2.879	3.4	20.7
2 11	9 24.15	+13 47.1	1.892	2.878	0.9	20.5
2 21	9 15.90	+14 32.9	1.910	2.878	5.0	20.8
3 2	9 8.72	+15 13.4	1.956	2.877	8.9	21.1
3 12	9 3.40	+15 45.5	2.027	2.876	12.3	21.3

162990 2001 SR_{54} 2 8.7 94°.54 5°.5/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 55.08	+32 7.4	2.534	3.328	11.5	20.0
1 12	9 49.75	+33 9.4	2.479	3.349	9.1	19.9
1 22	9 42.32	+34 7.8	2.449	3.370	6.9	19.8
2 1	9 33.42	+34 56.4	2.446	3.391	5.6	19.7
2 11	9 23.93	+35 29.8	2.473	3.411	6.0	19.8
2 21	9 14.80	+35 45.0	2.529	3.432	7.8	19.9
3 2	9 6.94	+35 41.7	2.610	3.452	10.0	20.1
3 12	9 0.99	+35 21.7	2.715	3.471	12.1	20.3

390064 2012 UF_{98} 2 8.7 93°.33 8°.3/16.7 18

1 2	9 49.60	−13 15.3	2.618	3.252	14.8	20.8
1 12	9 45.41	−14 13.0	2.531	3.263	13.1	20.7
1 22	9 39.46	−14 51.3	2.464	3.273	11.3	20.5
2 1	9 32.19	−15 7.2	2.419	3.284	9.6	20.4
2 11	9 24.28	−14 59.9	2.399	3.294	8.5	20.4
2 21	9 16.48	−14 31.0	2.406	3.304	8.4	20.4
3 2	9 9.54	−13 44.2	2.439	3.314	9.4	20.5
3 12	9 4.10	−12 45.0	2.497	3.324	10.9	20.6

138791 2000 SK_{363} 2 8.7 160°.88 2°.1/11.1 18

1 2	9 47.90	+ 4 14.6	3.076	3.810	11.0	21.3
1 12	9 43.79	+ 4 31.7	2.981	3.816	8.8	21.2
1 22	9 38.23	+ 5 0.5	2.909	3.821	6.4	21.0
2 1	9 31.61	+ 5 39.8	2.865	3.826	3.8	20.9
2 11	9 24.47	+ 6 26.9	2.852	3.831	2.1	20.7
2 21	9 17.43	+ 7 18.5	2.869	3.835	3.7	20.9
3 2	9 11.09	+ 8 10.9	2.917	3.838	6.3	21.0
3 12	9 5.96	+ 9 0.7	2.993	3.842	8.7	21.2

376152 2011 BN_{66} 2 8.7 278°.35 2°.3/10.4 17

1 2	9 49.67	+ 6 34.8	1.957	2.725	15.3	21.7
1 12	9 46.12	+ 6 44.1	1.862	2.720	12.3	21.5
1 22	9 40.28	+ 7 9.6	1.788	2.714	8.7	21.2
2 1	9 32.67	+ 7 49.6	1.741	2.709	4.8	21.0
2 11	9 24.13	+ 8 40.4	1.721	2.704	2.3	20.8
2 21	9 15.68	+ 9 36.4	1.730	2.698	5.2	21.0
3 2	9 8.33	+10 31.9	1.766	2.693	9.2	21.2
3 12	9 2.93	+11 21.8	1.828	2.688	12.9	21.4

337579 2001 SO_{321} 2 8.7 106°.87 3°.5/11.8 18

1 2	9 49.69	+ 2 19.9	2.517	3.249	13.2	21.1
1 12	9 45.44	+ 2 10.1	2.431	3.261	10.7	21.0
1 22	9 39.44	+ 2 14.2	2.368	3.273	8.0	20.8
2 1	9 32.17	+ 2 31.9	2.331	3.285	5.2	20.6
2 11	9 24.31	+ 3 1.0	2.324	3.296	3.5	20.6
2 21	9 16.62	+ 3 38.1	2.346	3.307	4.7	20.7
3 2	9 9.84	+ 4 19.4	2.397	3.318	7.4	20.8
3 12	9 4.57	+ 5 0.7	2.474	3.329	10.1	21.0

225279 1991 VY_{10} 2 8.7 190°.40 3°.3/11.7 18

1 2	9 50.63	+ 2 12.6	2.517	3.247	13.2	21.5
1 12	9 46.28	+ 2 15.4	2.416	3.246	10.8	21.4
1 22	9 40.09	+ 2 33.0	2.338	3.244	8.0	21.2
2 1	9 32.50	+ 3 5.1	2.286	3.241	5.1	21.0
2 11	9 24.20	+ 3 49.0	2.264	3.238	3.3	20.9
2 21	9 15.97	+ 4 41.0	2.272	3.235	4.7	20.9
3 2	9 8.60	+ 5 36.6	2.310	3.231	7.7	21.1
3 12	9 2.75	+ 6 31.1	2.374	3.226	10.6	21.3

406026 2006 TL_{69} 2 8.7 106°.47 9°.9/ 1.0 14 C

1 2	10 4.96	+41 51.1	1.985	2.768	14.6	22.2
1 12	9 58.36	+43 24.9	1.943	2.789	12.4	22.1
1 22	9 48.50	+44 46.9	1.924	2.810	10.6	22.0
2 1	9 36.26	+45 46.5	1.931	2.830	9.9	22.0
2 11	9 23.14	+46 15.9	1.964	2.850	10.6	22.1
2 21	9 10.73	+46 12.7	2.022	2.869	12.2	22.2
3 2	9 0.49	+45 39.6	2.103	2.887	14.1	22.4
3 12	8 53.30	+44 42.5	2.204	2.905	16.0	22.6

108975 2001 PR_{44} 2 8.7 225°.84 1°.8/ 7.2 18

1 2	9 54.41	+18 16.1	2.310	3.094	12.7	20.7
1 12	9 49.56	+18 53.4	2.208	3.082	9.9	20.5
1 22	9 42.48	+19 38.0	2.130	3.070	6.6	20.3
2 1	9 33.64	+20 25.3	2.081	3.056	3.1	20.0
2 11	9 23.87	+21 10.0	2.061	3.042	2.4	20.0
2 21	9 14.13	+21 47.1	2.072	3.028	5.8	20.1
3 2	9 5.41	+22 13.0	2.112	3.012	9.4	20.3
3 12	8 58.56	+22 26.2	2.176	2.996	12.6	20.5

286848 2002 ND_{62} 2 8.7 221°.05 3°.1/ 6.3 18

1 2	9 53.97	+20 0.7	1.893	2.693	14.5	21.4
1 12	9 49.71	+20 58.7	1.804	2.687	11.3	21.1
1 22	9 42.83	+22 5.2	1.738	2.681	7.5	20.9
2 1	9 33.86	+23 13.8	1.700	2.674	4.0	20.7
2 11	9 23.81	+24 16.4	1.690	2.666	3.8	20.6
2 21	9 13.86	+25 6.4	1.709	2.659	7.4	20.8
3 2	9 5.23	+25 39.5	1.754	2.651	11.2	21.0
3 12	8 58.87	+25 54.5	1.823	2.642	14.7	21.2

261000 2005 SY_{94} 2 8.7 111°.03 0°.9/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 58.04	+12 46.3	2.059	2.828	14.6	20.4
1 12	9 52.21	+12 31.3	1.981	2.843	11.4	20.3
1 22	9 44.07	+12 24.8	1.926	2.858	7.7	20.1
2 1	9 34.26	+12 24.7	1.899	2.873	3.7	19.8
2 11	9 23.74	+12 27.8	1.901	2.887	1.2	19.7
2 21	9 13.57	+12 31.2	1.934	2.901	5.0	20.0
3 2	9 4.76	+12 32.2	1.996	2.914	8.9	20.2
3 12	8 58.04	+12 29.0	2.083	2.927	12.2	20.5

334644 2002 WD_{3} 2 8.7 66°.05 1°.2/ 9.5 18

1 2	9 53.99	+11 2.9	2.096	2.867	14.3	20.4
1 12	9 48.96	+10 56.0	2.030	2.892	11.2	20.2
1 22	9 41.82	+10 59.4	1.986	2.917	7.6	20.1
2 1	9 33.23	+11 10.8	1.969	2.942	3.7	19.9
2 11	9 24.06	+11 26.9	1.981	2.966	1.3	19.7
2 21	9 15.27	+11 44.0	2.024	2.991	4.7	20.0
3 2	9 7.75	+11 59.0	2.094	3.016	8.3	20.3
3 12	9 2.16	+12 9.5	2.190	3.040	11.5	20.5

219383 2000 SB_{93} 2 8.7 90°.69 6°.8/15.1 18

1 2	9 51.07	− 7 48.8	2.122	2.808	16.6	20.6
1 12	9 46.78	− 8 3.6	2.048	2.832	14.2	20.4
1 22	9 40.46	− 7 55.1	1.993	2.855	11.4	20.3
2 1	9 32.66	− 7 22.3	1.962	2.878	8.8	20.2
2 11	9 24.21	− 6 27.0	1.957	2.900	7.0	20.1
2 21	9 16.03	− 5 13.8	1.980	2.922	7.2	20.1
3 2	9 8.99	− 3 49.3	2.032	2.944	9.1	20.3
3 12	9 3.76	− 2 21.2	2.109	2.965	11.6	20.5

399558 2003 SR_{66} 2 8.7 148°.21 1°.9/10.1 18

1 2	9 54.70	+ 7 32.2	2.056	2.814	15.0	22.1
1 12	9 49.75	+ 7 41.3	1.971	2.824	11.9	21.9
1 22	9 42.54	+ 8 4.6	1.909	2.834	8.3	21.7
2 1	9 33.63	+ 8 40.2	1.873	2.842	4.4	21.5
2 11	9 23.92	+ 9 23.9	1.867	2.851	2.0	21.4
2 21	9 14.42	+10 10.8	1.891	2.858	5.0	21.6
3 2	9 6.12	+10 56.0	1.943	2.865	8.9	21.8
3 12	8 59.81	+11 35.4	2.021	2.871	12.3	22.1

170105 2002 XA_{85} 2 8.7 19°.31 0°.2/ 8.8 18

1 2	9 50.19	+13 23.8	1.914	2.705	14.7	19.8
1 12	9 46.47	+13 30.2	1.833	2.709	11.5	19.6
1 22	9 40.46	+13 47.0	1.775	2.714	7.7	19.4
2 1	9 32.72	+14 10.9	1.743	2.720	3.5	19.1
2 11	9 24.20	+14 37.7	1.740	2.726	1.0	18.9
2 21	9 15.92	+15 2.7	1.764	2.732	5.3	19.3
3 2	9 8.88	+15 22.4	1.816	2.739	9.3	19.5
3 12	9 3.87	+15 34.0	1.892	2.746	12.8	19.7

239523 2008 PG 2 8.7 184°.25 5°.7/13.3 18

1 2	9 50.18	− 6 49.6	1.143	1.897	24.7	20.2
1 12	9 48.10	− 5 34.8	1.059	1.897	20.9	19.9
1 22	9 42.52	− 3 27.9	0.990	1.897	16.0	19.6
2 1	9 33.98	− 0 27.4	0.942	1.897	10.4	19.3
2 11	9 23.77	+ 3 16.8	0.920	1.897	5.9	19.1
2 21	9 13.58	+ 7 23.3	0.925	1.897	7.9	19.2
3 2	9 5.24	+11 25.6	0.958	1.896	13.6	19.5
3 12	9 0.13	+15 1.2	1.015	1.896	19.0	19.8

428913 2008 VY_{62} 2 8.7 95°.94 1°.4/ 7.6 18

1 2	9 51.54	+17 5.3	2.181	2.972	13.2	21.6
1 12	9 47.23	+17 39.5	2.104	2.982	10.2	21.4
1 22	9 40.82	+18 21.3	2.050	2.991	6.7	21.2
2 1	9 32.85	+19 6.2	2.024	3.001	3.0	21.0
2 11	9 24.18	+19 48.8	2.028	3.011	2.0	21.0
2 21	9 15.75	+20 24.5	2.061	3.020	5.5	21.2
3 2	9 8.47	+20 50.2	2.121	3.029	9.0	21.4
3 12	9 3.05	+21 4.2	2.207	3.039	12.1	21.7

228083 2008 QO_{38} 2 8.7 92°.10 1°.5/ 9.8 18

1 2	9 51.82	+ 9 27.5	2.090	2.860	14.4	20.7
1 12	9 47.50	+ 9 27.1	2.007	2.868	11.4	20.5
1 22	9 41.03	+ 9 38.7	1.946	2.875	7.8	20.3
2 1	9 32.97	+10 0.3	1.911	2.883	4.0	20.1
2 11	9 24.16	+10 28.5	1.905	2.890	1.6	19.9
2 21	9 15.57	+10 59.0	1.929	2.897	4.9	20.1
3 2	9 8.12	+11 27.9	1.981	2.904	8.6	20.4
3 12	9 2.55	+11 51.8	2.058	2.911	11.9	20.6

465494 2008 TH_{142} 2 8.7 205°.48 3°.3/ 5.8 17

1 2	9 53.95	+24 2.3	2.524	3.314	11.6	22.5
1 12	9 49.00	+24 46.8	2.433	3.309	9.0	22.3
1 22	9 41.99	+25 34.0	2.367	3.304	6.2	22.1
2 1	9 33.40	+26 18.7	2.329	3.298	3.7	22.0
2 11	9 24.03	+26 55.6	2.322	3.291	3.8	22.0
2 21	9 14.78	+27 20.6	2.345	3.285	6.3	22.1
3 2	9 6.57	+27 31.6	2.396	3.277	9.3	22.3
3 12	9 0.12	+27 28.4	2.472	3.270	12.0	22.5

417268 2006 AM_{29} 2 8.7 350°.73 7°.4/ 3.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.94	+28 1.3	1.405	2.241	16.8	20.5
1 12	9 46.80	+29 23.2	1.334	2.233	13.3	20.2
1 22	9 41.40	+30 48.3	1.285	2.225	9.8	20.0
2 1	9 33.37	+32 5.6	1.259	2.219	7.5	19.9
2 11	9 24.04	+33 3.4	1.258	2.215	8.3	19.9
2 21	9 14.98	+33 34.0	1.281	2.211	11.5	20.1
3 2	9 7.77	+33 35.0	1.327	2.209	15.2	20.3
3 12	9 3.52	+33 8.6	1.392	2.208	18.6	20.5

402671 2006 UN_{238} 2 8.7 79°.22 1°.7/ 7.9 18

1 2	10 3.18	+20 5.0	1.722	2.511	16.2	20.7
1 12	9 56.51	+19 58.0	1.659	2.534	12.6	20.5
1 22	9 47.02	+19 54.9	1.618	2.557	8.3	20.3
2 1	9 35.58	+19 50.9	1.605	2.581	3.8	20.0
2 11	9 23.45	+19 41.7	1.620	2.603	2.3	20.0
2 21	9 12.00	+19 24.6	1.665	2.626	6.4	20.3
3 2	9 2.42	+18 58.8	1.738	2.648	10.5	20.6
3 12	8 55.51	+18 25.0	1.836	2.670	14.0	20.8

432102 2009 AN_{32} 2 8.7 326°.13 0°.5/ 8.3 17

1 2	9 47.94	+13 54.8	2.006	2.800	14.0	21.1
1 12	9 44.82	+14 25.8	1.911	2.790	11.0	20.9
1 22	9 39.46	+15 8.4	1.838	2.779	7.3	20.7
2 1	9 32.36	+15 58.7	1.792	2.770	3.2	20.4
2 11	9 24.35	+16 51.4	1.775	2.760	1.3	20.2
2 21	9 16.41	+17 40.8	1.786	2.751	5.5	20.5
3 2	9 9.55	+18 21.9	1.824	2.743	9.5	20.7
3 12	9 4.60	+18 51.7	1.887	2.734	13.1	20.9

151863 2003 HP_{38} 2 8.7 283°.31 7°.6/13.2 18

1 2	9 52.19	− 4 1.3	1.994	2.706	16.8	20.2
1 12	9 48.25	− 5 3.4	1.882	2.685	14.5	19.9
1 22	9 41.89	− 5 48.1	1.789	2.664	11.8	19.7
2 1	9 33.53	− 6 11.8	1.719	2.643	9.2	19.5
2 11	9 23.98	− 6 13.1	1.676	2.622	7.7	19.4
2 21	9 14.27	− 5 52.9	1.659	2.600	8.4	19.4
3 2	9 5.53	− 5 15.1	1.669	2.579	10.9	19.5
3 12	8 58.75	− 4 26.2	1.703	2.557	14.0	19.6

424318 2007 TK_{430} 2 8.7 180°.81 2°.6/11.1 17

1 2	9 50.01	+ 4 50.7	2.711	3.450	12.2	21.9
1 12	9 45.66	+ 4 44.6	2.613	3.451	9.8	21.7
1 22	9 39.62	+ 4 50.4	2.539	3.451	7.1	21.5
2 1	9 32.32	+ 5 7.1	2.491	3.451	4.3	21.4
2 11	9 24.40	+ 5 32.7	2.473	3.451	2.6	21.2
2 21	9 16.57	+ 6 4.3	2.486	3.450	4.3	21.3
3 2	9 9.55	+ 6 38.4	2.528	3.449	7.1	21.5
3 12	9 3.94	+ 7 11.5	2.597	3.448	9.8	21.7

433171 2012 TH_{291} 2 8.7 170°.49 0°.4/ 8.3 17

1 2	9 49.16	+13 56.9	2.716	3.491	11.3	21.7
1 12	9 45.04	+14 31.2	2.625	3.493	8.7	21.5
1 22	9 39.23	+15 13.9	2.559	3.495	5.8	21.3
2 1	9 32.15	+16 1.7	2.521	3.497	2.5	21.1
2 11	9 24.46	+16 50.4	2.513	3.499	1.0	21.0
2 21	9 16.87	+17 36.1	2.537	3.500	4.3	21.2
3 2	9 10.12	+18 15.4	2.589	3.501	7.4	21.4
3 12	9 4.80	+18 45.8	2.668	3.501	10.2	21.6

35168 1993 RS_{14} 2 8.7 227°.84 0°.6/ 9.2 18

1 2	9 54.56	+10 50.1	1.961	2.734	15.1	20.0
1 12	9 50.07	+11 12.3	1.858	2.723	11.9	19.7
1 22	9 43.06	+11 48.4	1.777	2.710	8.2	19.5
2 1	9 34.03	+12 35.6	1.723	2.697	3.8	19.2
2 11	9 23.87	+13 28.6	1.698	2.684	1.1	19.0
2 21	9 13.71	+14 21.7	1.702	2.669	5.6	19.2
3 2	9 4.69	+15 9.4	1.735	2.654	9.9	19.5
3 12	8 57.77	+15 47.5	1.792	2.638	13.8	19.7

113972 2002 UM_{15} 2 8.7 165°.41 5°.5/ 3.9 18

1 2	9 56.39	+28 24.4	2.173	2.971	13.0	20.5
1 12	9 51.31	+29 43.5	2.099	2.976	10.2	20.3
1 22	9 43.73	+31 3.6	2.050	2.980	7.5	20.2
2 1	9 34.24	+32 16.5	2.029	2.984	5.6	20.1
2 11	9 23.84	+33 14.5	2.038	2.988	6.2	20.1
2 21	9 13.65	+33 52.6	2.074	2.990	8.6	20.3
3 2	9 4.81	+34 8.8	2.138	2.993	11.4	20.4
3 12	8 58.16	+34 4.5	2.224	2.994	14.0	20.6

353265 2010 EC_{112} 2 8.7 340°.13 1°.5/ 9.5 18

1 2	9 50.86	+10 19.1	1.272	2.081	19.8	21.0
1 12	9 48.28	+10 19.9	1.191	2.075	15.7	20.7
1 22	9 42.41	+10 39.3	1.128	2.069	10.9	20.4
2 1	9 33.87	+11 15.0	1.089	2.064	5.3	20.1
2 11	9 23.93	+12 0.8	1.074	2.059	1.7	19.8
2 21	9 14.15	+12 49.0	1.084	2.056	7.1	20.2
3 2	9 6.13	+13 32.2	1.119	2.053	12.6	20.5
3 12	9 1.09	+14 4.6	1.174	2.050	17.4	20.7

57055 2001 MN_{18} 2 8.7 125°.90 0°.0/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 55.70	+11 41.2	1.685	2.469	16.7	19.8
1 12	9 51.04	+12 19.3	1.611	2.483	13.1	19.6
1 22	9 43.66	+13 12.6	1.559	2.496	8.7	19.3
2 1	9 34.23	+14 16.2	1.532	2.509	3.9	19.1
2 11	9 23.86	+15 22.9	1.535	2.521	1.1	18.9
2 21	9 13.81	+16 25.3	1.566	2.532	6.0	19.3
3 2	9 5.29	+17 17.6	1.625	2.543	10.5	19.5
3 12	8 59.21	+17 56.4	1.708	2.554	14.3	19.8

167084 2003 SF_{6} 2 8.7 140°.17 3°.6/ 6.2 18

1 2	9 57.40	+22 22.0	1.900	2.697	14.6	20.6
1 12	9 52.19	+23 10.7	1.827	2.707	11.3	20.4
1 22	9 44.34	+24 4.1	1.776	2.716	7.6	20.2
2 1	9 34.51	+24 55.4	1.753	2.725	4.3	20.0
2 11	9 23.79	+25 37.4	1.759	2.733	4.2	20.0
2 21	9 13.41	+26 4.9	1.794	2.741	7.4	20.2
3 2	9 4.53	+26 15.5	1.856	2.748	11.0	20.4
3 12	8 58.02	+26 9.7	1.942	2.755	14.2	20.6

419742 2010 VG_{74} 2 8.7 130°.67 1°.5/ 9.9 18

1 2	9 53.22	+ 7 35.3	2.247	3.002	13.9	22.4
1 12	9 48.40	+ 8 1.2	2.166	3.019	11.0	22.3
1 22	9 41.54	+ 8 40.9	2.109	3.034	7.6	22.1
2 1	9 33.20	+ 9 31.7	2.079	3.050	3.9	21.9
2 11	9 24.18	+10 29.2	2.080	3.064	1.5	21.7
2 21	9 15.39	+11 28.1	2.110	3.078	4.6	22.0
3 2	9 7.69	+12 23.6	2.171	3.091	8.1	22.2
3 12	9 1.77	+13 11.8	2.257	3.103	11.3	22.4

114778 2003 ML_{2} 2 8.7 180°.50 2°.4/10.4 18

1 2	9 54.97	+ 7 1.0	1.987	2.745	15.4	20.3
1 12	9 50.16	+ 6 57.8	1.894	2.746	12.4	20.1
1 22	9 42.96	+ 7 9.2	1.824	2.747	8.8	19.9
2 1	9 33.92	+ 7 33.6	1.780	2.747	4.9	19.7
2 11	9 23.95	+ 8 7.9	1.764	2.747	2.4	19.5
2 21	9 14.12	+ 8 47.3	1.778	2.746	5.3	19.7
3 2	9 5.49	+ 9 27.0	1.821	2.744	9.3	19.9
3 12	8 58.92	+10 2.7	1.889	2.742	12.9	20.1

467238 2016 EE_{166} 2 8.7 104°.99 2°.6/10.7 18

1 2	9 51.45	+ 5 55.0	1.991	2.751	15.3	20.7
1 12	9 47.35	+ 5 55.4	1.907	2.759	12.3	20.5
1 22	9 41.02	+ 6 11.3	1.845	2.767	8.7	20.3
2 1	9 33.03	+ 6 41.3	1.808	2.774	5.0	20.1
2 11	9 24.24	+ 7 21.9	1.800	2.781	2.7	20.0
2 21	9 15.65	+ 8 8.2	1.821	2.789	5.2	20.2
3 2	9 8.23	+ 8 55.1	1.870	2.796	8.9	20.4
3 12	9 2.75	+ 9 37.9	1.944	2.802	12.3	20.6

463261 2012 GT_{3} 2 8.7 197°.02 4°.2/ 5.3 17

1 2	9 55.32	+25 48.1	2.306	3.101	12.4	21.8
1 12	9 50.30	+26 39.4	2.221	3.098	9.7	21.6
1 22	9 42.98	+27 32.7	2.160	3.096	6.8	21.4
2 1	9 33.91	+28 21.8	2.127	3.092	4.5	21.3
2 11	9 23.99	+29 0.3	2.124	3.088	4.7	21.3
2 21	9 14.24	+29 24.1	2.150	3.084	7.2	21.4
3 2	9 5.67	+29 30.9	2.204	3.079	10.2	21.6
3 12	8 59.10	+29 21.4	2.281	3.074	13.0	21.8

157994 2000 LH_{15} 2 8.7 189°.79 2°.0/ 7.1 18

1 2	9 55.98	+17 29.3	2.130	2.914	13.7	20.9
1 12	9 50.93	+18 23.9	2.039	2.913	10.6	20.6
1 22	9 43.49	+19 27.9	1.972	2.911	7.0	20.4
2 1	9 34.18	+20 35.6	1.933	2.909	3.3	20.2
2 11	9 23.90	+21 40.1	1.924	2.905	2.6	20.1
2 21	9 13.72	+22 35.4	1.946	2.900	6.2	20.3
3 2	9 4.72	+23 17.2	1.996	2.895	10.0	20.6
3 12	8 57.76	+23 43.7	2.071	2.888	13.3	20.8

193776 2001 OT_{11} 2 8.7 273°.15 0°.6/ 8.4 18

1 2	9 57.76	+15 51.7	1.511	2.311	17.6	20.4
1 12	9 53.46	+15 51.8	1.411	2.292	14.0	20.1
1 22	9 45.85	+16 2.3	1.332	2.273	9.5	19.8
2 1	9 35.47	+16 19.0	1.277	2.254	4.2	19.5
2 11	9 23.49	+16 36.3	1.249	2.235	1.6	19.2
2 21	9 11.46	+16 48.4	1.249	2.215	7.2	19.5
3 2	9 1.01	+16 51.2	1.274	2.195	12.5	19.8
3 12	8 53.46	+16 42.9	1.322	2.175	17.2	20.0

89723 2001 YP_{130} 2 8.7 142°.88 3°.2/ 6.5 18

1 2	9 57.85	+20 54.2	1.831	2.627	15.1	20.1
1 12	9 52.63	+21 45.0	1.757	2.638	11.7	19.9
1 22	9 44.70	+22 42.2	1.707	2.647	7.8	19.7
2 1	9 34.72	+23 38.8	1.683	2.657	4.1	19.5
2 11	9 23.80	+24 27.3	1.689	2.665	3.9	19.5
2 21	9 13.21	+25 1.8	1.723	2.673	7.3	19.8
3 2	9 4.18	+25 19.5	1.785	2.680	11.1	20.0
3 12	8 57.58	+25 20.4	1.869	2.687	14.5	20.2

20531 Stevebabcock 2 8.7 246.°72 1.°7/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.79	+16 56.1	1.879	2.671	14.9	18.7
1 12	9 50.46	+17 34.2	1.778	2.656	11.7	18.5
1 22	9 43.46	+18 22.9	1.700	2.641	7.8	18.2
2 1	9 34.28	+19 17.1	1.648	2.625	3.6	17.9
2 11	9 23.89	+20 10.0	1.626	2.609	2.4	17.8
2 21	9 13.48	+20 55.1	1.632	2.591	6.6	18.0
3 2	9 4.32	+21 27.5	1.666	2.574	11.0	18.2
3 12	8 57.42	+21 45.1	1.723	2.556	14.8	18.4

502779 2015 DD_{92} 2 8.7 181.°75 3.°3/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.92	+23 56.2	2.243	3.039	12.7	21.2
1 12	9 49.18	+24 26.7	2.159	3.039	9.8	21.0
1 22	9 42.20	+24 59.5	2.100	3.039	6.7	20.8
2 1	9 33.56	+25 29.3	2.069	3.039	3.9	20.7
2 11	9 24.14	+25 50.9	2.066	3.039	3.8	20.6
2 21	9 14.96	+26 0.4	2.093	3.039	6.6	20.8
3 2	9 6.98	+25 56.3	2.148	3.039	9.7	21.0
3 12	9 0.97	+25 38.8	2.227	3.039	12.6	21.2

140238 2001 SJ_{248} 2 8.7 269.°76 0.°4/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.38	+14 2.7	2.390	3.171	12.4	19.9
1 12	9 45.57	+14 29.2	2.289	3.160	9.7	19.7
1 22	9 39.80	+15 5.2	2.212	3.149	6.5	19.5
2 1	9 32.51	+15 47.4	2.162	3.138	2.9	19.3
2 11	9 24.43	+16 31.3	2.142	3.127	1.1	19.1
2 21	9 16.40	+17 12.6	2.152	3.116	4.8	19.3
3 2	9 9.27	+17 47.3	2.190	3.105	8.4	19.5
3 12	9 3.78	+18 12.9	2.254	3.093	11.5	19.7

285415 1999 VQ_{42} 2 8.7 189.°62 0.°1/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.98	+12 42.0	2.148	2.920	14.0	22.4
1 12	9 50.05	+13 3.0	2.054	2.919	10.9	22.2
1 22	9 42.85	+13 34.8	1.983	2.918	7.4	21.9
2 1	9 33.89	+14 14.0	1.940	2.916	3.3	21.7
2 11	9 24.05	+14 56.1	1.927	2.913	0.9	21.5
2 21	9 14.32	+15 36.0	1.944	2.909	5.1	21.8
3 2	9 5.72	+16 9.6	1.989	2.905	9.1	22.0
3 12	8 59.07	+16 34.2	2.060	2.900	12.5	22.2

15555 2000 FD_{49} 2 8.7 22.°32 5.°0/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.00	− 1 2.9	2.072	2.805	15.6	18.5
1 12	9 44.67	− 1 15.2	1.982	2.807	13.0	18.3
1 22	9 39.26	− 1 8.2	1.913	2.810	10.0	18.1
2 1	9 32.28	− 0 41.5	1.867	2.812	7.0	17.9
2 11	9 24.52	+ 0 3.0	1.849	2.815	5.1	17.8
2 21	9 16.88	+ 1 0.9	1.859	2.818	6.0	17.9
3 2	9 10.27	+ 2 6.4	1.896	2.822	8.8	18.0
3 12	9 5.43	+ 3 13.1	1.959	2.825	11.9	18.2

194280 2001 UC_{33} 2 8.7 88.°88 1.°1/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.88	+13 57.1	1.537	2.332	17.6	20.8
1 12	9 52.06	+14 45.8	1.478	2.357	13.6	20.6
1 22	9 44.36	+15 48.3	1.441	2.382	8.9	20.4
2 1	9 34.55	+16 57.9	1.428	2.406	3.9	20.1
2 11	9 23.90	+18 6.2	1.445	2.429	1.9	20.1
2 21	9 13.76	+19 5.4	1.489	2.453	6.7	20.4
3 2	9 5.41	+19 50.4	1.560	2.475	11.1	20.7
3 12	8 59.69	+20 19.3	1.654	2.497	14.9	21.0

304974 2007 TG_{161} 2 8.7 103.°24 3.°3/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.69	+ 3 59.0	1.691	2.453	17.5	21.0
1 12	9 48.68	+ 4 7.4	1.614	2.465	14.2	20.8
1 22	9 42.11	+ 4 36.2	1.557	2.477	10.2	20.6
2 1	9 33.59	+ 5 23.9	1.524	2.488	6.0	20.4
2 11	9 24.16	+ 6 25.6	1.519	2.500	3.3	20.2
2 21	9 14.99	+ 7 34.8	1.542	2.511	5.8	20.4
3 2	9 7.23	+ 8 44.0	1.593	2.521	9.9	20.7
3 12	9 1.75	+ 9 47.0	1.668	2.532	13.7	20.9

366760 2004 RO_{98} 2 8.8 86.°31 1.°8/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.79	+ 7 52.9	2.040	2.804	14.9	21.6
1 12	9 48.20	+ 8 3.2	1.969	2.826	11.8	21.4
1 22	9 41.48	+ 8 27.3	1.921	2.847	8.1	21.3
2 1	9 33.21	+ 9 2.8	1.899	2.869	4.3	21.1
2 11	9 24.30	+ 9 45.6	1.906	2.890	1.8	20.9
2 21	9 15.70	+10 30.8	1.942	2.910	4.8	21.2
3 2	9 8.34	+11 13.6	2.007	2.931	8.5	21.4
3 12	9 2.89	+11 50.3	2.098	2.951	11.7	21.7

375307 2008 QT_{39} 2 8.8 100.°87 0.°5/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.26	+11 33.3	2.134	2.911	13.9	21.7
1 12	9 47.08	+11 50.7	2.052	2.919	10.9	21.5
1 22	9 40.80	+12 19.4	1.993	2.927	7.3	21.3
2 1	9 32.95	+12 56.3	1.960	2.935	3.4	21.0
2 11	9 24.37	+13 37.0	1.957	2.943	0.9	20.8
2 21	9 16.00	+14 16.8	1.983	2.951	4.8	21.1
3 2	9 8.74	+14 51.7	2.038	2.958	8.6	21.4
3 12	9 3.33	+15 18.6	2.118	2.966	11.9	21.6

264710 2002 AT_{196} 2 8.8 193.°79 0.°8/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.14	+14 12.8	1.939	2.730	14.6	20.7
1 12	9 47.33	+14 49.6	1.853	2.730	11.4	20.5
1 22	9 41.17	+15 38.0	1.789	2.730	7.5	20.3
2 1	9 33.19	+16 33.7	1.752	2.729	3.3	20.0
2 11	9 24.30	+17 30.6	1.744	2.729	1.5	19.9
2 21	9 15.56	+18 22.5	1.765	2.729	5.7	20.2
3 2	9 8.03	+19 4.7	1.813	2.728	9.8	20.4
3 12	9 2.55	+19 34.3	1.885	2.728	13.3	20.6

380054 2013 RN_{73} 2 8.8 246.°11 1.°1/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.99	+17 23.9	2.397	3.171	12.6	21.6
1 12	9 51.57	+17 36.6	2.283	3.151	9.9	21.3
1 22	9 43.89	+17 55.3	2.193	3.129	6.6	21.1
2 1	9 34.41	+18 16.7	2.131	3.107	3.0	20.8
2 11	9 23.93	+18 36.4	2.101	3.085	1.6	20.7
2 21	9 13.42	+18 50.7	2.101	3.061	5.3	20.9
3 2	9 3.89	+18 56.9	2.131	3.037	9.0	21.1
3 12	8 56.19	+18 53.7	2.186	3.012	12.4	21.2

368187 2000 SV_{51} 2 8.8 154.°95 4.°9/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.96	− 0 22.6	2.195	2.919	15.1	21.1
1 12	9 47.60	− 0 47.1	2.104	2.923	12.6	20.9
1 22	9 41.15	− 0 54.6	2.033	2.928	9.7	20.7
2 1	9 33.14	− 0 44.5	1.988	2.931	6.7	20.5
2 11	9 24.34	− 0 18.1	1.970	2.935	5.0	20.4
2 21	9 15.66	+ 0 21.1	1.982	2.938	6.0	20.5
3 2	9 8.02	+ 1 8.5	2.021	2.941	8.7	20.7
3 12	9 2.15	+ 1 58.5	2.087	2.944	11.6	20.9

81453 2000 GN_{126} 2 8.8 208.°09 5.°3/13.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.60	− 3 49.3	2.384	3.086	14.6	19.6
1 12	9 46.49	− 3 56.6	2.279	3.080	12.3	19.4
1 22	9 40.42	− 3 44.8	2.194	3.074	9.7	19.2
2 1	9 32.83	− 3 13.1	2.135	3.068	7.1	19.0
2 11	9 24.43	− 2 23.0	2.103	3.060	5.4	18.9
2 21	9 16.04	− 1 18.1	2.100	3.052	6.0	18.9
3 2	9 8.53	− 0 3.7	2.126	3.044	8.4	19.0
3 12	9 2.61	+ 1 13.6	2.179	3.035	11.3	19.2

57060 2001 MO_{25} 2 8.8 136.°01 0.°5/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.95	+11 59.7	1.778	2.555	16.3	19.9
1 12	9 52.65	+12 11.7	1.701	2.568	12.8	19.7
1 22	9 44.70	+12 36.2	1.645	2.580	8.6	19.4
2 1	9 34.75	+13 9.7	1.616	2.591	4.0	19.2
2 11	9 23.90	+13 46.9	1.616	2.602	1.1	19.0
2 21	9 13.37	+14 22.3	1.645	2.612	5.7	19.3
3 2	9 4.35	+14 51.5	1.702	2.621	10.1	19.6
3 12	8 57.70	+15 11.7	1.783	2.630	13.8	19.8

492733 2014 QL_{123} 2 8.8 257.°96 0.°4/ 8.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.26	+13 46.6	1.769	2.557	15.9	22.9
1 12	9 51.05	+14 9.9	1.663	2.537	12.6	22.7
1 22	9 44.02	+14 46.4	1.578	2.517	8.5	22.4
2 1	9 34.64	+15 32.2	1.520	2.496	3.8	22.0
2 11	9 23.88	+16 21.3	1.489	2.475	1.4	21.8
2 21	9 13.01	+17 7.2	1.487	2.453	6.4	22.1
3 2	9 3.38	+17 44.2	1.513	2.430	11.2	22.3
3 12	8 56.14	+18 8.9	1.562	2.407	15.5	22.5

170323 2003 SL_{75} 2 8.8 125.°03 0.°2/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.70	+11 59.8	1.933	2.708	15.2	21.4
1 12	9 50.69	+12 23.6	1.857	2.724	11.9	21.2
1 22	9 43.27	+12 59.6	1.804	2.739	7.9	21.0
2 1	9 34.09	+13 43.9	1.778	2.753	3.6	20.8
2 11	9 24.11	+14 31.1	1.781	2.767	1.0	20.6
2 21	9 14.44	+15 15.8	1.814	2.780	5.3	21.0
3 2	9 6.11	+15 53.3	1.875	2.792	9.4	21.2
3 12	8 59.93	+16 21.0	1.961	2.804	12.9	21.5

36031 1999 NG_{64} 2 8.8 300.°43 5.°1/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.91	− 1 16.3	1.934	2.672	16.4	19.5
1 12	9 44.89	− 1 18.9	1.834	2.663	13.8	19.2
1 22	9 39.61	− 0 59.7	1.754	2.654	10.6	19.0
2 1	9 32.56	− 0 17.9	1.698	2.645	7.3	18.8
2 11	9 24.54	+ 0 44.0	1.668	2.637	5.1	18.6
2 21	9 16.53	+ 2 0.9	1.667	2.628	6.3	18.7
3 2	9 9.56	+ 3 25.8	1.692	2.620	9.5	18.9
3 12	9 4.51	+ 4 50.8	1.743	2.612	12.9	19.1

211833 2004 EE_{82} 2 8.8 325.°23 6.°3/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.54	+31 47.0	2.135	2.940	12.9	20.4
1 12	9 49.28	+32 48.8	2.057	2.934	10.4	20.3
1 22	9 42.50	+33 48.6	2.003	2.929	7.9	20.1
2 1	9 33.81	+34 38.8	1.976	2.924	6.4	20.0
2 11	9 24.19	+35 12.3	1.977	2.919	7.0	20.0
2 21	9 14.81	+35 24.9	2.004	2.915	9.1	20.1
3 2	9 6.77	+35 15.5	2.057	2.910	11.8	20.3
3 12	9 0.95	+34 46.0	2.132	2.906	14.4	20.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
250187 2002 TT_{297}			2 8.8 66°.00		3°.8/11.4 18	
	h m	° ′			°	m
1 2	9 52.04	+ 3 32.4	1.640	2.404	17.9	20.5
1 12	9 48.20	+ 3 28.1	1.569	2.421	14.5	20.3
1 22	9 41.79	+ 3 44.1	1.518	2.437	10.5	20.1
2 1	9 33.47	+ 4 19.4	1.491	2.453	6.4	19.9
2 11	9 24.31	+ 5 9.8	1.491	2.470	3.8	19.8
2 21	9 15.47	+ 6 9.1	1.519	2.486	6.0	20.0
3 2	9 8.08	+ 7 10.2	1.573	2.503	9.9	20.2
3 12	9 3.00	+ 8 6.9	1.651	2.519	13.6	20.5
175764 1998 US_{3}			2 8.8 85°.65		2°.0/10.4 17	
1 2	9 55.82	+ 6 8.8	1.908	2.664	16.0	21.0
1 12	9 50.56	+ 6 35.5	1.848	2.699	12.7	20.8
1 22	9 43.04	+ 7 18.7	1.810	2.734	8.8	20.7
2 1	9 33.93	+ 8 15.3	1.799	2.767	4.6	20.5
2 11	9 24.21	+ 9 19.6	1.817	2.800	2.0	20.4
2 21	9 14.94	+10 25.5	1.865	2.832	5.0	20.6
3 2	9 7.08	+11 27.0	1.941	2.864	8.8	20.9
3 12	9 1.32	+12 20.0	2.043	2.895	12.1	21.2
79974 1999 CS_{137}			2 8.8 152°.69		0°.2/ 8.9 18	
1 2	9 50.29	+12 27.5	2.471	3.244	12.3	20.9
1 12	9 46.10	+12 48.8	2.382	3.247	9.6	20.7
1 22	9 40.06	+13 19.6	2.316	3.251	6.4	20.5
2 1	9 32.64	+13 56.9	2.279	3.254	2.9	20.3
2 11	9 24.56	+14 36.9	2.271	3.257	0.8	20.1
2 21	9 16.61	+15 15.4	2.294	3.260	4.4	20.4
3 2	9 9.60	+15 48.8	2.346	3.263	7.8	20.6
3 12	9 4.18	+16 14.7	2.423	3.265	10.8	20.8
461372 2000 SM_{321}			2 8.8 141°.45		4°.3/ 5.8 18	
1 2	9 58.44	+26 42.8	2.124	2.918	13.4	21.9
1 12	9 52.79	+27 17.7	2.048	2.925	10.5	21.8
1 22	9 44.66	+27 52.7	1.997	2.931	7.3	21.6
2 1	9 34.71	+28 21.4	1.972	2.937	4.7	21.4
2 11	9 23.97	+28 38.2	1.977	2.943	4.8	21.4
2 21	9 13.58	+28 39.3	2.011	2.948	7.4	21.6
3 2	9 4.63	+28 24.0	2.073	2.954	10.5	21.8
3 12	8 57.92	+27 53.7	2.158	2.958	13.4	22.0
218364 2004 HR_{38}			2 8.8 225°.12		4°.7/ 4.4 18	
1 2	9 52.54	+23 22.1	2.005	2.810	13.7	20.4
1 12	9 48.65	+24 56.2	1.919	2.804	10.6	20.2
1 22	9 42.22	+26 37.8	1.858	2.797	7.4	20.0
2 1	9 33.76	+28 18.4	1.825	2.791	4.9	19.9
2 11	9 24.21	+29 48.8	1.821	2.784	5.5	19.9
2 21	9 14.69	+31 1.3	1.846	2.777	8.4	20.0
3 2	9 6.39	+31 51.5	1.897	2.769	11.8	20.2
3 12	9 0.26	+32 18.9	1.971	2.761	14.8	20.4
506180 2016 GU_{24}			2 8.8 309°.14		3°.2/ 6.9 18	
1 2	9 55.37	+22 11.6	1.747	2.553	15.3	20.8
1 12	9 51.07	+22 33.0	1.658	2.543	12.0	20.5
1 22	9 43.91	+22 58.9	1.591	2.533	8.1	20.3
2 1	9 34.52	+23 23.3	1.550	2.524	4.3	20.0
2 11	9 24.00	+23 39.8	1.536	2.514	3.8	20.0
2 21	9 13.67	+23 43.6	1.551	2.505	7.5	20.2
3 2	9 4.84	+23 32.3	1.591	2.497	11.6	20.4
3 12	8 58.52	+23 6.4	1.655	2.488	15.3	20.6
373275 2012 HQ_{34}			2 8.8 266°.20		1°.7/ 7.5 18	
1 2	9 52.37	+17 0.5	1.968	2.762	14.3	21.4
1 12	9 48.45	+17 38.1	1.868	2.748	11.1	21.1
1 22	9 42.06	+18 25.6	1.792	2.733	7.4	20.9
2 1	9 33.69	+19 18.3	1.742	2.719	3.4	20.6
2 11	9 24.23	+20 9.8	1.721	2.704	2.3	20.5
2 21	9 14.79	+20 54.0	1.729	2.689	6.3	20.7
3 2	9 6.51	+21 26.4	1.764	2.674	10.4	20.9
3 12	9 0.32	+21 44.7	1.823	2.658	14.1	21.1
428832 2008 TN_{146}			2 8.8 120°.42		1°.4/ 7.6 18	
1 2	9 52.05	+16 59.2	2.196	2.984	13.2	21.9
1 12	9 47.71	+17 32.8	2.115	2.991	10.2	21.7
1 22	9 41.24	+18 14.1	2.058	2.998	6.7	21.5
2 1	9 33.19	+18 58.7	2.028	3.005	3.0	21.2
2 11	9 24.41	+19 41.3	2.028	3.011	1.9	21.2
2 21	9 15.84	+20 17.2	2.058	3.017	5.5	21.4
3 2	9 8.39	+20 43.2	2.115	3.024	9.0	21.6
3 12	9 2.81	+20 57.5	2.198	3.029	12.1	21.8
409982 2006 VG_{108}			2 8.8 97°.47		0°.8/ 9.3 18	
1 2	9 54.42	+11 7.6	1.849	2.628	15.7	21.7
1 12	9 49.79	+11 18.4	1.775	2.642	12.3	21.5
1 22	9 42.73	+11 41.9	1.723	2.657	8.3	21.3
2 1	9 33.87	+12 14.9	1.697	2.671	3.9	21.0
2 11	9 24.22	+12 52.5	1.699	2.685	1.1	20.9
2 21	9 14.89	+13 29.6	1.731	2.699	5.3	21.2
3 2	9 6.94	+14 1.8	1.790	2.712	9.4	21.5
3 12	9 1.17	+14 25.8	1.874	2.725	13.0	21.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
332367 2007 EP_{133}			2 8.8 250°.99		2°.6/10.9 17	
	h m	° ′			°	m
1 2	9 50.17	+ 4 29.0	2.335	3.081	13.7	21.4
1 12	9 46.30	+ 4 44.5	2.221	3.064	11.1	21.2
1 22	9 40.41	+ 5 15.8	2.130	3.047	8.1	20.9
2 1	9 32.90	+ 6 2.0	2.065	3.029	4.7	20.7
2 11	9 24.47	+ 6 59.9	2.029	3.010	2.6	20.5
2 21	9 15.98	+ 8 4.7	2.024	2.991	4.8	20.6
3 2	9 8.33	+ 9 11.1	2.047	2.971	8.3	20.8
3 12	9 2.31	+10 13.7	2.097	2.952	11.7	21.0
367170 2006 WQ_{175}			2 8.8 126°.23		5°.8/12.8 18	
1 2	9 54.62	− 1 13.5	2.033	2.752	16.3	20.6
1 12	9 49.78	− 1 55.8	1.948	2.763	13.6	20.4
1 22	9 42.67	− 2 20.3	1.884	2.773	10.6	20.3
2 1	9 33.86	− 2 25.6	1.845	2.783	7.6	20.1
2 11	9 24.22	− 2 12.3	1.833	2.792	5.9	20.0
2 21	9 14.78	− 1 43.6	1.849	2.801	6.8	20.1
3 2	9 6.53	− 1 4.1	1.894	2.810	9.4	20.3
3 12	9 0.24	− 0 19.7	1.963	2.818	12.4	20.5
58731 1998 DE_{32}			2 8.8 204°.82		1°.4/ 9.9 18	
1 2	9 50.81	+ 8 33.0	2.109	2.877	14.3	19.8
1 12	9 46.89	+ 8 52.3	2.015	2.875	11.4	19.6
1 22	9 40.81	+ 9 25.8	1.944	2.873	7.9	19.4
2 1	9 33.06	+10 11.2	1.899	2.870	4.0	19.1
2 11	9 24.46	+11 4.0	1.882	2.867	1.4	19.0
2 21	9 15.95	+11 59.0	1.896	2.864	4.9	19.2
3 2	9 8.50	+12 51.0	1.938	2.861	8.8	19.4
3 12	9 2.88	+13 35.8	2.005	2.858	12.2	19.6
343317 2010 BV_{71}			2 8.8 168°.46		4°.4/ 3.7 17	
1 2	9 50.90	+27 24.5	2.773	3.568	10.6	20.8
1 12	9 46.61	+28 44.9	2.695	3.571	8.3	20.7
1 22	9 40.44	+30 6.8	2.643	3.574	6.0	20.5
2 1	9 32.85	+31 24.0	2.620	3.576	4.5	20.5
2 11	9 24.54	+32 30.6	2.628	3.578	5.0	20.5
2 21	9 16.32	+33 22.3	2.665	3.579	7.0	20.6
3 2	9 9.01	+33 56.6	2.730	3.581	9.3	20.8
3 12	9 3.28	+34 13.6	2.818	3.582	11.5	20.9
252003 2000 EM_{199}			2 8.8 7°.31		2°.0/10.1 18	
1 2	9 49.94	+ 7 20.6	1.617	2.401	17.3	20.8
1 12	9 46.84	+ 7 38.2	1.533	2.401	13.8	20.5
1 22	9 41.09	+ 8 15.1	1.470	2.402	9.7	20.3
2 1	9 33.27	+ 9 8.6	1.431	2.402	5.1	20.0
2 11	9 24.41	+10 13.3	1.419	2.403	2.0	19.8
2 21	9 15.70	+11 21.9	1.434	2.404	5.9	20.1
3 2	9 8.37	+12 26.9	1.476	2.406	10.4	20.3
3 12	9 3.37	+13 22.5	1.541	2.408	14.5	20.6
503539 2016 FD_{27}			2 8.8 235°.39		2°.7/ 6.8 18	
1 2	9 52.88	+20 12.9	2.008	2.807	13.9	21.4
1 12	9 48.69	+20 53.5	1.923	2.805	10.7	21.2
1 22	9 42.10	+21 40.6	1.861	2.803	7.2	21.0
2 1	9 33.66	+22 28.7	1.826	2.801	3.6	20.8
2 11	9 24.31	+23 11.4	1.820	2.798	3.2	20.8
2 21	9 15.14	+23 43.4	1.843	2.796	6.6	21.0
3 2	9 7.21	+24 1.5	1.892	2.794	10.3	21.2
3 12	9 1.38	+24 4.9	1.966	2.791	13.6	21.4
170256 2003 QZ_{54}			2 8.8 164°.59		1°.0/ 7.9 18	
1 2	9 55.10	+14 54.1	2.034	2.815	14.3	21.4
1 12	9 50.28	+15 35.1	1.949	2.821	11.1	21.2
1 22	9 43.10	+16 26.8	1.888	2.826	7.4	21.0
2 1	9 34.10	+17 24.3	1.854	2.830	3.2	20.7
2 11	9 24.21	+18 21.5	1.850	2.834	1.7	20.6
2 21	9 14.51	+19 12.5	1.875	2.837	5.7	20.9
3 2	9 6.04	+19 52.8	1.929	2.839	9.6	21.1
3 12	8 59.64	+20 20.3	2.008	2.841	13.0	21.3
170206 2003 PP_{5}			2 8.8 136°.64		2°.1/10.5 18	
1 2	9 54.42	+ 6 14.1	2.031	2.786	15.2	21.5
1 12	9 49.62	+ 6 31.3	1.950	2.799	12.2	21.3
1 22	9 42.56	+ 7 4.5	1.890	2.812	8.5	21.1
2 1	9 33.83	+ 7 51.2	1.857	2.825	4.6	20.9
2 11	9 24.31	+ 8 47.2	1.854	2.837	2.1	20.8
2 21	9 15.01	+ 9 46.8	1.880	2.848	5.0	21.0
3 2	9 6.92	+10 44.5	1.935	2.858	8.8	21.2
3 12	9 0.82	+11 35.5	2.016	2.867	12.2	21.4
190770 2001 QA_{205}			2 8.8 38°.56		4°.1/10.9 18	
1 2	9 53.26	+ 6 7.6	1.196	1.994	21.5	19.7
1 12	9 50.05	+ 5 39.7	1.133	2.005	17.3	19.5
1 22	9 43.50	+ 5 33.9	1.087	2.018	12.4	19.2
2 1	9 34.40	+ 5 49.6	1.064	2.031	7.2	19.0
2 11	9 24.15	+ 6 22.4	1.064	2.045	4.1	18.9
2 21	9 14.38	+ 7 5.6	1.089	2.060	7.3	19.1
3 2	9 6.59	+ 7 51.2	1.139	2.075	12.2	19.4
3 12	9 1.83	+ 8 32.0	1.209	2.090	16.6	19.7

465777 2009 XJ_4 2 8.8 53°.16 2°.4/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.90	+ 6 59.4	1.950	2.718	15.3	21.5
1 12	9 47.06	+ 6 57.5	1.865	2.722	12.3	21.3
1 22	9 40.96	+ 7 10.4	1.801	2.726	8.7	21.0
2 1	9 33.16	+ 7 36.7	1.762	2.730	4.8	20.8
2 11	9 24.51	+ 8 12.8	1.751	2.734	2.4	20.7
2 21	9 16.04	+ 8 54.1	1.769	2.738	5.2	20.9
3 2	9 8.74	+ 9 35.7	1.815	2.742	9.0	21.1
3 12	9 3.41	+10 12.8	1.886	2.747	12.5	21.3

211996 2005 AL_{76} 2 8.8 120°.22 1°.9/ 7.6 18

1 2	9 56.12	+17 26.6	1.729	2.525	15.9	21.3
1 12	9 51.43	+18 1.6	1.654	2.535	12.3	21.0
1 22	9 44.01	+18 45.9	1.602	2.544	8.1	20.8
2 1	9 34.54	+19 33.6	1.577	2.553	3.7	20.6
2 11	9 24.12	+20 17.9	1.579	2.562	2.5	20.5
2 21	9 14.04	+20 52.7	1.610	2.571	6.7	20.8
3 2	9 5.49	+21 14.5	1.669	2.579	10.8	21.0
3 12	8 59.39	+21 21.9	1.750	2.587	14.5	21.3

341422 2007 TL_{203} 2 8.8 81°.18 4°.8/ 4.6 18

1 2	9 52.73	+27 40.8	2.281	3.083	12.3	20.5
1 12	9 48.30	+28 40.7	2.213	3.093	9.6	20.3
1 22	9 41.67	+29 40.9	2.169	3.103	6.9	20.2
2 1	9 33.42	+30 34.7	2.153	3.112	5.0	20.0
2 11	9 24.45	+31 16.2	2.166	3.122	5.3	20.1
2 21	9 15.76	+31 41.2	2.207	3.132	7.6	20.2
3 2	9 8.29	+31 48.1	2.274	3.142	10.3	20.4
3 12	9 2.77	+31 38.0	2.365	3.152	12.8	20.6

100289 1995 CD_6 2 8.8 195°.47 0°.8/ 9.4 18

1 2	9 53.49	+10 50.2	2.216	2.983	13.7	21.4
1 12	9 48.87	+11 2.3	2.120	2.981	10.8	21.2
1 22	9 42.09	+11 25.8	2.048	2.979	7.4	21.0
2 1	9 33.65	+11 58.0	2.002	2.976	3.6	20.7
2 11	9 24.38	+12 35.0	1.986	2.972	1.1	20.5
2 21	9 15.20	+13 12.5	2.001	2.968	4.8	20.8
3 2	9 7.08	+13 46.3	2.044	2.963	8.6	21.0
3 12	9 0.78	+14 13.2	2.113	2.958	12.0	21.2

240858 2006 BC_{200} 2 8.8 168°.72 2°.0/10.3 18

1 2	9 53.85	+ 6 36.0	1.908	2.670	15.8	21.6
1 12	9 49.45	+ 6 56.9	1.819	2.674	12.7	21.4
1 22	9 42.63	+ 7 35.0	1.752	2.677	8.9	21.2
2 1	9 33.94	+ 8 28.0	1.711	2.680	4.7	20.9
2 11	9 24.30	+ 9 31.0	1.699	2.682	2.0	20.7
2 21	9 14.81	+10 37.7	1.716	2.684	5.3	21.0
3 2	9 6.53	+11 41.9	1.761	2.685	9.4	21.2
3 12	9 0.35	+12 38.2	1.831	2.685	13.1	21.4

337689 2001 TZ_{245} 2 8.8 123°.97 3°.8/ 5.6 16

1 2	9 53.98	+25 57.1	2.410	3.205	12.0	21.8
1 12	9 49.11	+26 34.7	2.332	3.209	9.3	21.6
1 22	9 42.14	+27 13.0	2.279	3.214	6.5	21.4
2 1	9 33.62	+27 46.7	2.253	3.219	4.1	21.3
2 11	9 24.41	+28 10.7	2.257	3.223	4.3	21.3
2 21	9 15.46	+28 21.6	2.291	3.228	6.6	21.4
3 2	9 7.65	+28 18.0	2.352	3.232	9.5	21.6
3 12	9 1.71	+28 0.5	2.437	3.236	12.1	21.8

453332 2008 YA_{18} 2 8.8 109°.59 1°.0/ 9.4 18

1 2	9 57.00	+10 29.6	1.754	2.529	16.5	21.8
1 12	9 51.89	+10 43.2	1.683	2.548	13.0	21.6
1 22	9 44.19	+11 10.7	1.634	2.567	8.8	21.4
2 1	9 34.58	+11 48.8	1.611	2.585	4.2	21.2
2 11	9 24.15	+12 32.0	1.617	2.603	1.2	21.0
2 21	9 14.10	+13 14.7	1.652	2.620	5.6	21.3
3 2	9 5.57	+13 51.8	1.714	2.636	9.8	21.6
3 12	8 59.39	+14 20.1	1.801	2.652	13.5	21.9

180028 2003 AM_{33} 2 8.8 288°.26 3°.4/ 5.9 18

1 2	9 50.28	+18 42.0	1.782	2.590	15.0	19.7
1 12	9 47.22	+20 1.9	1.687	2.575	11.6	19.4
1 22	9 41.49	+21 35.0	1.615	2.559	7.8	19.1
2 1	9 33.57	+23 13.7	1.569	2.544	4.1	18.9
2 11	9 24.40	+24 48.4	1.553	2.529	4.2	18.8
2 21	9 15.18	+26 10.0	1.564	2.513	8.0	19.0
3 2	9 7.19	+27 12.1	1.601	2.498	12.1	19.2
3 12	9 1.50	+27 52.1	1.661	2.483	15.8	19.4

479304 2013 JX_{17} 2 8.8 104°.02 19°.8/24.8 18

1 2	10 9.64	+48 31.7	1.044	1.858	22.9	20.5
1 12	10 6.46	+52 12.6	1.022	1.868	20.9	20.4
1 22	9 56.62	+55 27.5	1.018	1.878	19.9	20.4
2 1	9 40.92	+57 51.3	1.033	1.888	20.2	20.5
2 11	9 22.32	+59 6.6	1.066	1.898	21.5	20.6
2 21	9 4.97	+59 11.0	1.115	1.907	23.4	20.7
3 2	8 52.44	+58 14.9	1.177	1.916	25.4	20.9
3 12	8 46.35	+56 34.9	1.250	1.925	27.2	21.1

406177 2006 WQ_{81} 2 8.8 19°.56 4°.8/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.69	+21 10.4	1.168	2.010	19.1	20.3
1 12	9 46.78	+22 19.5	1.115	2.020	14.7	20.1
1 22	9 41.45	+23 38.2	1.081	2.032	9.9	19.9
2 1	9 33.52	+24 55.8	1.071	2.045	5.6	19.7
2 11	9 24.47	+26 0.6	1.085	2.060	5.7	19.7
2 21	9 15.97	+26 43.8	1.123	2.077	9.8	20.0
3 2	9 9.55	+27 1.8	1.183	2.094	14.3	20.3
3 12	9 6.20	+26 55.6	1.264	2.113	18.2	20.6

239350 2007 RN_{157} 2 8.8 169°.57 2°.1/ 7.2 18

1 2	9 56.16	+17 50.7	2.024	2.812	14.2	21.1
1 12	9 51.18	+18 38.7	1.941	2.816	11.0	20.9
1 22	9 43.74	+19 35.4	1.880	2.820	7.3	20.7
2 1	9 34.43	+20 35.1	1.848	2.823	3.4	20.4
2 11	9 24.20	+21 31.1	1.845	2.826	2.7	20.4
2 21	9 14.15	+22 17.4	1.872	2.828	6.3	20.6
3 2	9 5.38	+22 50.3	1.927	2.829	10.1	20.8
3 12	8 58.75	+23 8.4	2.006	2.829	13.4	21.0

425478 2010 EC_{142} 2 8.8 240°.03 2°.7/ 6.6 17

1 2	9 52.48	+21 54.7	2.362	3.155	12.2	21.1
1 12	9 48.04	+22 27.6	2.272	3.151	9.5	20.9
1 22	9 41.50	+23 4.3	2.207	3.147	6.3	20.7
2 1	9 33.39	+23 40.1	2.170	3.143	3.4	20.5
2 11	9 24.50	+24 10.0	2.162	3.139	3.2	20.5
2 21	9 15.76	+24 30.0	2.184	3.134	6.0	20.6
3 2	9 8.08	+24 37.8	2.234	3.130	9.2	20.8
3 12	9 2.21	+24 32.8	2.309	3.125	12.1	21.0

59087 Maccacaro 2 8.8 42°.79 0°.3/ 8.6 18

1 2	9 57.06	+15 18.0	1.189	2.006	20.4	18.1
1 12	9 53.04	+15 12.5	1.131	2.020	15.9	17.9
1 22	9 45.48	+15 19.5	1.091	2.035	10.6	17.6
2 1	9 35.27	+15 34.2	1.073	2.051	4.7	17.3
2 11	9 23.99	+15 50.1	1.082	2.068	1.5	17.1
2 21	9 13.37	+16 1.3	1.115	2.085	7.3	17.6
3 2	9 4.97	+16 3.8	1.173	2.102	12.6	17.9
3 12	8 59.80	+15 56.1	1.252	2.120	17.1	18.2

496095 2009 TZ_6 2 8.8 96°.60 2°.0/10.3 18

1 2	9 54.10	+ 7 49.6	2.130	2.888	14.5	21.7
1 12	9 49.17	+ 7 49.2	2.056	2.909	11.5	21.5
1 22	9 42.15	+ 8 1.7	2.005	2.929	8.0	21.3
2 1	9 33.62	+ 8 25.1	1.981	2.950	4.3	21.1
2 11	9 24.45	+ 8 55.9	1.987	2.970	2.0	21.0
2 21	9 15.59	+ 9 30.0	2.022	2.989	4.7	21.2
3 2	9 7.93	+10 3.3	2.086	3.008	8.3	21.5
3 12	9 2.14	+10 32.2	2.175	3.027	11.4	21.7

429337 2010 EM_{143} 2 8.8 210°.12 2°.4/ 6.5 17

1 2	9 52.28	+21 57.7	2.708	3.495	11.0	21.8
1 12	9 47.62	+22 31.1	2.615	3.490	8.5	21.6
1 22	9 41.10	+23 7.8	2.547	3.485	5.7	21.4
2 1	9 33.19	+23 43.6	2.508	3.480	3.1	21.2
2 11	9 24.59	+24 14.1	2.499	3.474	2.9	21.2
2 21	9 16.10	+24 35.8	2.520	3.468	5.4	21.4
3 2	9 8.52	+24 46.6	2.570	3.462	8.3	21.5
3 12	9 2.52	+24 45.7	2.646	3.455	10.9	21.7

351476 2005 QQ_7 2 8.8 165°.07 0°.6/ 9.2 18

1 2	9 55.90	+10 15.9	1.774	2.549	16.3	22.1
1 12	9 51.25	+10 48.8	1.689	2.555	12.9	21.8
1 22	9 43.94	+11 37.8	1.626	2.560	8.7	21.6
2 1	9 34.58	+12 38.8	1.589	2.564	4.1	21.3
2 11	9 24.18	+13 45.4	1.581	2.567	1.1	21.1
2 21	9 13.96	+14 50.6	1.603	2.570	5.8	21.4
3 2	9 5.13	+15 48.0	1.652	2.572	10.3	21.7
3 12	8 58.62	+16 33.5	1.725	2.573	14.1	21.9

196681 2003 SZ_{63} 2 8.8 163°.61 0°.1/ 8.7 18

1 2	9 51.92	+13 28.8	2.336	3.112	12.9	21.2
1 12	9 47.51	+13 49.7	2.247	3.115	10.0	21.0
1 22	9 41.11	+14 19.8	2.182	3.117	6.7	20.8
2 1	9 33.21	+14 55.9	2.144	3.120	3.0	20.5
2 11	9 24.58	+15 33.9	2.136	3.122	0.9	20.4
2 21	9 16.11	+16 9.4	2.158	3.124	4.7	20.6
3 2	9 8.64	+16 38.9	2.210	3.126	8.3	20.9
3 12	9 2.90	+17 0.1	2.287	3.127	11.4	21.1

268589 2006 BC_{180} 2 8.8 114°.55 0°.8/ 8.2 18

1 2	9 50.89	+13 55.8	2.086	2.872	13.9	20.4
1 12	9 46.97	+14 39.7	2.004	2.879	10.7	20.2
1 22	9 40.87	+15 34.8	1.946	2.885	7.1	20.0
2 1	9 33.13	+16 36.7	1.915	2.891	3.1	19.7
2 11	9 24.61	+17 39.3	1.913	2.898	1.4	19.6
2 21	9 16.26	+18 36.9	1.940	2.904	5.4	19.9
3 2	9 9.04	+19 24.6	1.996	2.910	9.1	20.1
3 12	9 3.70	+19 59.9	2.077	2.915	12.4	20.4

286740 2002 GZ_{135} 2 8.8 291°.31 1°.0/ 8.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.84	+15 57.3	1.563	2.366	17.0	20.9
1 12	9 51.19	+16 8.3	1.459	2.342	13.5	20.6
1 22	9 44.41	+16 30.4	1.377	2.319	9.1	20.3
2 1	9 35.00	+16 59.7	1.318	2.295	4.1	20.0
2 11	9 24.02	+17 29.7	1.287	2.272	1.8	19.8
2 21	9 12.92	+17 54.3	1.282	2.248	7.1	20.0
3 2	9 3.25	+18 8.4	1.304	2.225	12.3	20.3
3 12	8 56.27	+18 9.7	1.347	2.202	16.9	20.5

64949 2001 YO_{124} 2 8.8 169°.42 4°.5/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 58.27	+23 52.8	1.842	2.642	14.9	19.2
1 12	9 53.18	+24 54.7	1.765	2.646	11.6	19.0
1 22	9 45.26	+26 1.4	1.711	2.649	8.0	18.7
2 1	9 35.17	+27 4.9	1.684	2.652	4.9	18.6
2 11	9 24.03	+27 56.6	1.685	2.654	5.1	18.6
2 21	9 13.15	+28 30.8	1.716	2.656	8.2	18.8
3 2	9 3.82	+28 44.6	1.772	2.656	11.8	19.0
3 12	8 56.98	+28 39.0	1.852	2.657	15.1	19.2

429947 2012 UH_{24} 2 8.8 176°.44 1°.1/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.43	+17 38.7	2.555	3.336	11.7	21.4
1 12	9 47.74	+17 54.1	2.464	3.336	9.1	21.2
1 22	9 41.18	+18 14.8	2.399	3.337	6.0	21.0
2 1	9 33.22	+18 37.6	2.361	3.338	2.7	20.8
2 11	9 24.60	+18 58.7	2.354	3.338	1.6	20.7
2 21	9 16.14	+19 14.7	2.377	3.338	4.8	20.9
3 2	9 8.64	+19 23.4	2.430	3.338	8.0	21.1
3 12	9 2.76	+19 23.6	2.508	3.338	10.8	21.3

40412 1999 RE_{9} 2 8.8 89°.66 1°.4/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.67	+ 7 57.0	2.032	2.801	14.8	19.3
1 12	9 46.76	+ 8 21.5	1.953	2.813	11.7	19.1
1 22	9 40.70	+ 9 1.0	1.897	2.825	8.1	18.9
2 1	9 33.04	+ 9 52.6	1.866	2.838	4.1	18.7
2 11	9 24.65	+10 51.5	1.865	2.850	1.5	18.5
2 21	9 16.47	+11 52.0	1.893	2.862	4.9	18.8
3 2	9 9.44	+12 48.6	1.949	2.873	8.7	19.0
3 12	9 4.30	+13 37.2	2.030	2.885	12.0	19.3

429855 2012 RF_{18} 2 8.8 257°.46 2°.4/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.20	+21 15.4	2.322	3.114	12.4	21.4
1 12	9 48.65	+21 40.5	2.230	3.108	9.7	21.2
1 22	9 41.95	+22 9.6	2.161	3.101	6.5	21.0
2 1	9 33.62	+22 38.3	2.120	3.094	3.3	20.8
2 11	9 24.49	+23 1.7	2.109	3.087	2.9	20.8
2 21	9 15.49	+23 16.0	2.127	3.080	5.9	20.9
3 2	9 7.58	+23 19.0	2.173	3.073	9.2	21.1
3 12	9 1.50	+23 10.0	2.245	3.066	12.2	21.3

67483 2000 RC_{14} 2 8.8 242°.40 4°.1/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.13	+ 4 18.7	1.692	2.453	17.6	19.5
1 12	9 50.11	+ 3 56.1	1.597	2.446	14.4	19.3
1 22	9 43.36	+ 3 51.2	1.521	2.438	10.6	19.0
2 1	9 34.40	+ 4 4.5	1.469	2.430	6.6	18.8
2 11	9 24.24	+ 4 33.6	1.445	2.422	4.1	18.6
2 21	9 14.12	+ 5 14.0	1.448	2.414	6.5	18.7
3 2	9 5.30	+ 5 59.7	1.477	2.405	10.6	18.9
3 12	8 58.83	+ 6 44.6	1.531	2.396	14.6	19.1

341733 2007 VN_{241} 2 8.8 160°.23 0°.8/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.29	+15 39.0	3.261	4.029	9.7	22.4
1 12	9 45.68	+16 19.5	3.172	4.037	7.5	22.3
1 22	9 39.61	+17 6.1	3.109	4.045	4.9	22.1
2 1	9 32.47	+17 55.6	3.075	4.052	2.2	21.9
2 11	9 24.83	+18 44.5	3.074	4.058	1.2	21.9
2 21	9 17.29	+19 29.2	3.105	4.064	3.9	22.1
3 2	9 10.46	+20 7.2	3.166	4.069	6.5	22.2
3 12	9 4.85	+20 36.6	3.254	4.073	8.9	22.4

119665 2001 XR_{67} 2 8.8 145°.40 3°.4/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.27	+21 42.0	2.280	3.073	12.6	19.9
1 12	9 48.72	+22 56.4	2.203	3.082	9.7	19.7
1 22	9 42.00	+24 16.5	2.152	3.091	6.5	19.5
2 1	9 33.64	+25 35.7	2.129	3.099	3.8	19.4
2 11	9 24.49	+26 47.0	2.137	3.107	4.0	19.4
2 21	9 15.51	+27 44.7	2.174	3.114	6.8	19.6
3 2	9 7.65	+28 25.6	2.239	3.121	9.8	19.8
3 12	9 1.68	+28 49.1	2.329	3.127	12.6	20.0

323937 2005 TL_{188} 2 8.8 219°.12 1°.8/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.18	+18 15.4	2.165	2.954	13.4	22.2
1 12	9 49.58	+18 48.5	2.071	2.947	10.4	22.0
1 22	9 42.68	+19 29.0	2.000	2.940	6.9	21.8
2 1	9 33.99	+20 12.2	1.957	2.933	3.2	21.5
2 11	9 24.39	+20 52.5	1.943	2.925	2.4	21.4
2 21	9 14.87	+21 25.0	1.959	2.916	5.9	21.7
3 2	9 6.48	+21 46.4	2.003	2.908	9.6	21.9
3 12	9 0.05	+21 55.1	2.072	2.899	12.9	22.1

214407 2005 NN_{85} 2 8.8 70°.68 0°.0/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.54	+13 5.1	2.347	3.127	12.7	21.0
1 12	9 45.62	+13 29.9	2.267	3.136	9.9	20.8
1 22	9 39.81	+14 4.1	2.210	3.146	6.6	20.6
2 1	9 32.62	+14 44.6	2.180	3.156	2.9	20.4
2 11	9 24.79	+15 27.0	2.180	3.166	0.9	20.2
2 21	9 17.15	+16 7.0	2.210	3.176	4.6	20.5
3 2	9 10.51	+16 41.0	2.269	3.186	8.0	20.8
3 12	9 5.51	+17 6.4	2.353	3.196	11.0	21.0

366343 1994 LC_{1} 2 8.8 132°.90 3°.4/ 5.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.37	+27 18.4	3.240	4.017	9.6	22.8
1 12	9 50.32	+28 5.2	3.172	4.038	7.5	22.7
1 22	9 42.64	+28 51.4	3.130	4.059	5.2	22.6
2 1	9 33.80	+29 32.5	3.119	4.078	3.6	22.5
2 11	9 24.48	+30 4.4	3.139	4.097	3.8	22.5
2 21	9 15.40	+30 24.5	3.191	4.115	5.6	22.6
3 2	9 7.25	+30 31.8	3.272	4.132	7.7	22.8
3 12	9 0.58	+30 26.8	3.379	4.148	9.6	23.0

378934 2008 UH_{132} 2 8.8 169°.42 1°.0/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.18	+10 6.1	2.423	3.188	12.8	21.8
1 12	9 46.87	+10 19.5	2.331	3.190	10.1	21.6
1 22	9 40.65	+10 43.8	2.263	3.192	6.9	21.4
2 1	9 33.02	+11 16.6	2.221	3.194	3.4	21.2
2 11	9 24.68	+11 54.4	2.210	3.195	1.1	21.0
2 21	9 16.47	+12 33.1	2.229	3.196	4.4	21.2
3 2	9 9.20	+13 8.9	2.277	3.197	7.8	21.5
3 12	9 3.54	+13 38.8	2.351	3.198	10.9	21.7

11075 Dönhoff 2 8.8 119°.77 1°.9/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.24	+16 59.7	1.859	2.649	15.1	19.1
1 12	9 51.31	+17 47.1	1.788	2.665	11.7	18.9
1 22	9 43.83	+18 43.9	1.740	2.681	7.7	18.7
2 1	9 34.48	+19 44.2	1.720	2.696	3.5	18.5
2 11	9 24.28	+20 40.7	1.728	2.710	2.5	18.4
2 21	9 14.42	+21 27.4	1.766	2.724	6.4	18.7
3 2	9 6.01	+22 0.5	1.831	2.737	10.3	19.0
3 12	8 59.87	+22 18.7	1.921	2.750	13.7	19.2

462262 2008 ER_{59} 2 8.8 291°.53 1°.2/ 8.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.09	+16 34.5	1.740	2.538	15.7	21.9
1 12	9 50.25	+16 48.4	1.636	2.517	12.4	21.6
1 22	9 43.57	+17 12.0	1.553	2.495	8.3	21.3
2 1	9 34.56	+17 41.2	1.496	2.473	3.7	21.0
2 11	9 24.21	+18 10.2	1.466	2.451	1.9	20.8
2 21	9 13.79	+18 33.3	1.465	2.429	6.6	21.1
3 2	9 4.67	+18 46.3	1.490	2.407	11.3	21.3
3 12	8 57.96	+18 47.0	1.538	2.385	15.5	21.5

150169 1998 BG_{39} 2 8.8 119°.48 0°.0/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.49	+13 6.1	2.182	2.956	13.7	20.9
1 12	9 49.52	+13 26.6	2.105	2.971	10.7	20.8
1 22	9 42.43	+13 56.9	2.052	2.987	7.1	20.6
2 1	9 33.80	+14 33.4	2.026	3.002	3.2	20.3
2 11	9 24.48	+15 11.6	2.031	3.017	0.9	20.2
2 21	9 15.43	+15 47.0	2.065	3.031	4.9	20.5
3 2	9 7.57	+16 16.1	2.128	3.044	8.5	20.7
3 12	9 1.58	+16 36.5	2.217	3.057	11.7	21.0

287513 2003 BA_{73} 2 8.8 318°.60 1°.9/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.68	+18 25.5	1.510	2.324	16.9	19.7
1 12	9 49.60	+18 34.8	1.410	2.299	13.4	19.4
1 22	9 43.39	+18 52.8	1.330	2.275	9.0	19.1
2 1	9 34.55	+19 14.6	1.275	2.252	4.2	18.8
2 11	9 24.20	+19 33.8	1.245	2.229	2.6	18.6
2 21	9 13.80	+19 44.3	1.243	2.207	7.5	18.8
3 2	9 4.89	+19 42.2	1.265	2.186	12.6	19.1
3 12	8 58.72	+19 26.0	1.308	2.165	17.2	19.3

511530 2014 SN_{219} 2 8.8 163°.29 5°.9/ 3.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.79	+30 34.4	2.370	3.163	12.2	21.8
1 12	9 51.58	+32 3.4	2.299	3.170	9.7	21.6
1 22	9 43.98	+33 31.8	2.253	3.176	7.3	21.5
2 1	9 34.57	+34 51.7	2.236	3.182	6.0	21.4
2 11	9 24.26	+35 55.5	2.248	3.186	6.6	21.5
2 21	9 14.12	+36 38.4	2.289	3.190	8.7	21.6
3 2	9 5.22	+36 58.9	2.357	3.193	11.1	21.8
3 12	8 58.40	+36 58.4	2.447	3.196	13.4	21.9

150058 2006 QJ_{147} 2 8.8 210°.70 1°.0/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.62	+ 9 16.3	1.995	2.766	14.9	21.1
1 12	9 48.51	+ 9 41.4	1.899	2.761	11.9	20.9
1 22	9 42.05	+10 21.6	1.825	2.756	8.1	20.7
2 1	9 33.75	+11 14.0	1.777	2.750	4.0	20.4
2 11	9 24.47	+12 13.5	1.759	2.744	1.2	20.2
2 21	9 15.25	+13 14.2	1.770	2.738	5.2	20.5
3 2	9 7.15	+14 10.4	1.809	2.731	9.4	20.7
3 12	9 1.04	+14 57.7	1.873	2.724	13.1	20.9

114346 2002 XU_{73} 2 8.8 26°.38 4°.9/ 4.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.85	+26 58.7	2.138	2.944	12.9	19.2
1 12	9 47.87	+28 1.3	2.063	2.946	10.1	19.0
1 22	9 41.55	+29 5.5	2.013	2.948	7.2	18.8
2 1	9 33.48	+30 4.2	1.990	2.951	5.1	18.7
2 11	9 24.58	+30 50.6	1.995	2.954	5.5	18.7
2 21	9 15.90	+31 19.9	2.028	2.957	8.0	18.9
3 2	9 8.46	+31 30.2	2.087	2.960	10.9	19.0
3 12	9 3.07	+31 22.1	2.169	2.963	13.6	19.2

420807 2013 HU_{16} 2 8.8 237°.39 5°.3/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.48	− 2 41.4	2.101	2.817	15.9	22.4
1 12	9 47.60	− 2 43.4	1.990	2.803	13.4	22.2
1 22	9 41.47	− 2 24.1	1.899	2.789	10.5	22.0
2 1	9 33.53	− 1 42.4	1.833	2.774	7.4	21.8
2 11	9 24.54	− 0 39.8	1.794	2.758	5.4	21.6
2 21	9 15.47	+ 0 38.8	1.784	2.742	6.3	21.6
3 2	9 7.35	+ 2 7.0	1.802	2.725	9.4	21.8
3 12	9 1.05	+ 3 36.9	1.847	2.708	12.7	21.9

102150 1999 RQ_{197} 2 8.8 251°.38 3°.5/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.80	+27 29.3	2.888	3.668	10.6	19.6
1 12	9 51.85	+27 47.2	2.783	3.650	8.3	19.4
1 22	9 43.91	+28 4.1	2.703	3.633	5.9	19.2
2 1	9 34.48	+28 15.5	2.652	3.615	3.8	19.1
2 11	9 24.30	+28 17.4	2.632	3.597	3.8	19.0
2 21	9 14.24	+28 7.4	2.643	3.578	6.0	19.1
3 2	9 5.13	+27 44.4	2.684	3.559	8.6	19.3
3 12	8 57.70	+27 9.4	2.750	3.540	11.1	19.4

518455 2005 GH_{18} 2 8.8 74°.44 14°.5/21.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.89	−20 29.0	1.109	1.792	29.1	21.5
1 12	9 47.98	−20 53.4	1.042	1.803	26.3	21.3
1 22	9 42.51	−20 25.4	0.985	1.814	22.9	21.1
2 1	9 34.17	−18 55.0	0.942	1.825	19.2	20.9
2 11	9 24.37	−16 19.8	0.918	1.836	16.0	20.7
2 21	9 14.86	−12 49.3	0.915	1.847	14.5	20.7
3 2	9 7.40	− 8 44.4	0.936	1.859	15.7	20.8
3 12	9 3.22	− 4 32.3	0.980	1.870	18.8	21.0

304796 2007 PS_{6} 2 8.8 115°.37 1°.3/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.77	+15 39.6	1.858	2.644	15.3	21.4
1 12	9 51.67	+16 22.3	1.789	2.663	11.8	21.2
1 22	9 44.05	+17 15.2	1.742	2.682	7.8	21.0
2 1	9 34.58	+18 12.7	1.723	2.700	3.4	20.8
2 11	9 24.30	+19 8.0	1.733	2.717	2.0	20.7
2 21	9 14.39	+19 55.1	1.772	2.733	6.1	21.0
3 2	9 5.93	+20 29.9	1.840	2.749	10.0	21.3
3 12	8 59.75	+20 50.9	1.931	2.765	13.4	21.5

368998 2007 GB_{5} 2 8.8 160°.04 0°.2/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.89	+11 24.6	2.075	2.854	14.2	21.6
1 12	9 47.02	+11 59.4	1.987	2.856	11.1	21.4
1 22	9 40.96	+12 47.3	1.922	2.857	7.5	21.1
2 1	9 33.23	+13 44.6	1.884	2.859	3.4	20.9
2 11	9 24.66	+14 45.8	1.875	2.861	0.9	20.7
2 21	9 16.23	+15 45.1	1.895	2.862	5.1	21.0
3 2	9 8.89	+16 37.4	1.944	2.863	9.0	21.2
3 12	9 3.44	+17 19.2	2.018	2.864	12.4	21.5

120541 1994 TX_{3} 2 8.8 20°.32 3°.0/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.70	+ 6 46.8	1.101	1.915	21.9	19.8
1 12	9 46.85	+ 6 45.9	1.038	1.922	17.6	19.5
1 22	9 41.61	+ 7 10.2	0.992	1.929	12.4	19.2
2 1	9 33.70	+ 7 57.6	0.966	1.938	6.7	19.0
2 11	9 24.54	+ 9 1.2	0.964	1.948	3.0	18.8
2 21	9 15.77	+10 11.2	0.986	1.959	7.2	19.1
3 2	9 8.99	+11 17.7	1.032	1.972	12.6	19.4
3 12	9 5.29	+12 12.8	1.097	1.985	17.4	19.7

170221 2003 QC_{13} 2 8.8 173°.90 1°.2/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.36	+15 34.2	2.088	2.870	14.0	20.8
1 12	9 50.50	+16 16.2	2.001	2.873	10.9	20.6
1 22	9 43.29	+17 8.2	1.937	2.876	7.2	20.4
2 1	9 34.28	+18 5.5	1.901	2.878	3.2	20.1
2 11	9 24.38	+19 1.8	1.895	2.879	1.8	20.0
2 21	9 14.63	+19 51.4	1.919	2.880	5.7	20.3
3 2	9 6.07	+20 30.1	1.972	2.880	9.6	20.5
3 12	8 59.53	+20 55.8	2.049	2.879	12.9	20.7

279142 2009 RW_{62} 2 8.8 65°.42 3°.5/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.08	+21 42.8	1.776	2.582	15.1	20.8
1 12	9 49.84	+22 31.7	1.708	2.594	11.6	20.6
1 22	9 42.97	+23 26.2	1.663	2.605	7.8	20.4
2 1	9 34.14	+24 19.4	1.644	2.617	4.3	20.3
2 11	9 24.44	+25 3.7	1.654	2.629	4.1	20.3
2 21	9 15.10	+25 33.9	1.691	2.641	7.4	20.5
3 2	9 7.29	+25 47.1	1.754	2.653	11.1	20.7
3 12	9 1.83	+25 43.5	1.841	2.665	14.4	21.0

40876 1999 TH_{123} 2 8.8 122°.62 0°.8/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.16	+10 0.8	2.212	2.982	13.7	20.2
1 12	9 47.01	+10 27.1	2.129	2.991	10.8	20.0
1 22	9 40.83	+11 5.9	2.069	3.000	7.3	19.8
2 1	9 33.13	+11 54.2	2.036	3.009	3.5	19.6
2 11	9 24.73	+12 47.3	2.032	3.018	1.0	19.4
2 21	9 16.50	+13 40.2	2.058	3.026	4.6	19.7
3 2	9 9.32	+14 28.3	2.113	3.034	8.3	19.9
3 12	9 3.91	+15 8.1	2.194	3.042	11.5	20.1

433625 2013 YB_{119} 2 8.8 215°.38 3°.7/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.42	+ 2 39.5	2.508	3.241	13.2	21.7
1 12	9 46.25	+ 2 17.6	2.409	3.239	10.8	21.5
1 22	9 40.25	+ 2 8.9	2.332	3.237	8.1	21.4
2 1	9 32.87	+ 2 13.4	2.282	3.234	5.3	21.2
2 11	9 24.80	+ 2 29.6	2.261	3.232	3.7	21.1
2 21	9 16.80	+ 2 54.9	2.269	3.230	4.9	21.1
3 2	9 9.65	+ 3 25.7	2.306	3.227	7.7	21.3
3 12	9 4.03	+ 3 58.0	2.369	3.225	10.5	21.5

53468 Varros 2 8.8 28°.84 0°.5/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.50	+12 51.5	1.260	2.075	19.6	19.1
1 12	9 49.59	+13 24.7	1.189	2.078	15.4	18.8
1 22	9 43.36	+14 16.3	1.137	2.082	10.3	18.5
2 1	9 34.50	+15 20.6	1.109	2.086	4.6	18.2
2 11	9 24.33	+16 28.5	1.105	2.091	1.6	18.0
2 21	9 14.48	+17 30.5	1.127	2.096	7.4	18.4
3 2	9 6.52	+18 19.1	1.174	2.101	12.8	18.7
3 12	9 1.56	+18 50.5	1.242	2.107	17.4	19.0

415942 2001 WW_{41} 2 8.8 147°.81 5°.8/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 59.47	+32 11.6	2.432	3.219	12.1	21.9
1 12	9 53.47	+33 16.1	2.365	3.231	9.7	21.7
1 22	9 45.12	+34 17.5	2.323	3.242	7.3	21.6
2 1	9 35.04	+35 8.7	2.309	3.252	5.9	21.5
2 11	9 24.21	+35 43.5	2.324	3.262	6.4	21.6
2 21	9 13.70	+35 58.4	2.368	3.271	8.3	21.7
3 2	9 4.53	+35 52.9	2.439	3.279	10.7	21.9
3 12	8 57.48	+35 29.3	2.533	3.287	12.9	22.1

24620 1979 MO_{2} 2 8.8 216°.06 2°.6/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.79	+ 6 28.7	1.786	2.548	16.8	19.9
1 12	9 51.32	+ 6 31.5	1.687	2.541	13.5	19.6
1 22	9 44.15	+ 6 51.7	1.609	2.532	9.7	19.4
2 1	9 34.80	+ 7 28.0	1.556	2.523	5.4	19.1
2 11	9 24.24	+ 8 16.4	1.531	2.514	2.6	18.9
2 21	9 13.68	+ 9 11.2	1.535	2.503	5.9	19.1
3 2	9 4.38	+10 6.0	1.567	2.492	10.3	19.3
3 12	8 57.37	+10 55.1	1.623	2.480	14.4	19.5

480195 2015 FZ_{339} 2 8.8 244°.96 1°.6/10.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.19	+ 7 11.2	3.788	4.519	9.1	22.8
1 12	9 45.50	+ 7 9.7	3.661	4.496	7.3	22.6
1 22	9 39.49	+ 7 15.7	3.558	4.473	5.2	22.4
2 1	9 32.48	+ 7 28.4	3.485	4.449	3.0	22.3
2 11	9 24.92	+ 7 46.4	3.443	4.424	1.6	22.1
2 21	9 17.32	+ 8 7.5	3.434	4.399	3.2	22.2
3 2	9 10.22	+ 8 29.6	3.456	4.373	5.5	22.3
3 12	9 4.09	+ 8 50.7	3.507	4.347	7.8	22.5

311587 2006 HS_{102} 2 8.8 250°.35 4°.4/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.74	+22 13.7	1.695	2.504	15.6	21.0
1 12	9 50.84	+23 20.5	1.608	2.495	12.2	20.7
1 22	9 44.00	+24 35.6	1.544	2.486	8.3	20.5
2 1	9 34.77	+25 50.9	1.505	2.476	4.9	20.3
2 11	9 24.25	+26 56.8	1.495	2.466	5.1	20.3
2 21	9 13.82	+27 45.6	1.512	2.456	8.7	20.4
3 2	9 4.87	+28 12.9	1.554	2.446	12.7	20.7
3 12	8 58.51	+28 18.4	1.619	2.436	16.4	20.9

205062 1999 RH_{29} 2 8.8 237°.79 1°.9/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.44	+ 3 30.1	3.346	4.070	10.3	21.4
1 12	9 44.36	+ 4 8.8	3.223	4.052	8.4	21.3
1 22	9 38.84	+ 5 0.6	3.124	4.034	6.0	21.1
2 1	9 32.22	+ 6 4.0	3.053	4.014	3.5	20.9
2 11	9 24.99	+ 7 16.1	3.014	3.995	1.9	20.7
2 21	9 17.70	+ 8 33.0	3.008	3.974	3.5	20.8
3 2	9 10.95	+ 9 50.5	3.034	3.953	6.1	21.0
3 12	9 5.28	+11 4.6	3.088	3.932	8.6	21.1

472808 2015 FE_{161} 2 8.8 304°.61 5°.8/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.65	+29 58.6	2.178	2.983	12.7	21.0
1 12	9 48.68	+30 59.1	2.088	2.967	10.1	20.8
1 22	9 42.25	+31 59.6	2.022	2.951	7.6	20.6
2 1	9 33.89	+32 52.9	1.982	2.936	5.9	20.5
2 11	9 24.51	+33 31.9	1.971	2.921	6.4	20.5
2 21	9 15.24	+33 51.8	1.987	2.905	8.8	20.6
3 2	9 7.17	+33 50.5	2.029	2.890	11.6	20.8
3 12	9 1.23	+33 29.2	2.093	2.876	14.3	20.9

15274 1991 GO_6 2 8.8 93°.63 6°.9/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.67	− 6 47.6	1.945	2.647	17.5	18.4
1 12	9 46.89	− 7 2.7	1.865	2.661	14.9	18.2
1 22	9 40.88	− 6 53.3	1.804	2.674	12.0	18.0
2 1	9 33.21	− 6 18.0	1.765	2.688	9.1	17.9
2 11	9 24.75	− 5 18.5	1.753	2.702	7.1	17.8
2 21	9 16.49	− 3 59.9	1.768	2.715	7.4	17.8
3 2	9 9.40	− 2 29.4	1.810	2.728	9.6	18.0
3 12	9 4.26	− 0 55.6	1.878	2.741	12.4	18.2

378875 2008 TB_{127} 2 8.8 176°.52 0°.5/ 8.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.45	+15 27.5	2.229	3.010	13.2	21.6
1 12	9 48.84	+15 39.6	2.139	3.011	10.3	21.4
1 22	9 42.09	+15 59.5	2.073	3.011	6.9	21.2
2 1	9 33.74	+16 23.8	2.035	3.011	3.0	20.9
2 11	9 24.60	+16 48.3	2.026	3.012	1.2	20.8
2 21	9 15.64	+17 9.0	2.047	3.012	5.0	21.1
3 2	9 7.77	+17 23.1	2.097	3.012	8.7	21.3
3 12	9 1.75	+17 28.8	2.172	3.011	11.9	21.5

163347 2002 NK_4 2 8.8 222°.19 1°.6/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.98	+ 6 47.5	2.302	3.062	13.5	20.3
1 12	9 45.37	+ 7 18.5	2.204	3.058	10.8	20.1
1 22	9 39.80	+ 8 4.6	2.129	3.054	7.5	19.9
2 1	9 32.73	+ 9 3.5	2.080	3.050	4.0	19.7
2 11	9 24.88	+10 11.0	2.061	3.045	1.6	19.5
2 21	9 17.07	+11 21.6	2.072	3.041	4.5	19.7
3 2	9 10.18	+12 29.7	2.112	3.036	8.1	19.9
3 12	9 4.91	+13 30.8	2.178	3.031	11.4	20.1

493427 2014 WN_{291} 2 8.8 137°.65 5°.2/ 4.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.07	+26 29.2	2.163	2.962	13.0	20.9
1 12	9 50.36	+27 59.6	2.095	2.974	10.1	20.7
1 22	9 43.23	+29 32.4	2.051	2.984	7.2	20.6
2 1	9 34.28	+30 59.6	2.036	2.994	5.3	20.5
2 11	9 24.46	+32 13.0	2.050	3.004	5.8	20.5
2 21	9 14.84	+33 7.0	2.093	3.013	8.3	20.7
3 2	9 6.51	+33 39.1	2.163	3.022	11.1	20.9
3 12	9 0.29	+33 50.2	2.255	3.030	13.7	21.1

289926 2005 NU_{29} 2 8.8 251°.13 0°.7/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.10	+11 38.6	1.800	2.584	15.8	21.2
1 12	9 49.11	+11 48.3	1.711	2.582	12.5	21.0
1 22	9 42.57	+12 10.9	1.644	2.580	8.5	20.7
2 1	9 34.05	+12 43.5	1.603	2.578	4.0	20.4
2 11	9 24.52	+13 21.3	1.590	2.576	1.1	20.2
2 21	9 15.13	+13 58.8	1.605	2.573	5.6	20.5
3 2	9 7.04	+14 31.2	1.647	2.571	10.0	20.8
3 12	9 1.17	+14 55.0	1.713	2.569	13.9	21.0

373894 2003 SN_{334} 2 8.8 55°.28 3°.8/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.79	+ 1 26.6	1.947	2.696	16.0	21.3
1 12	9 45.43	+ 1 36.1	1.867	2.706	13.1	21.1
1 22	9 39.92	+ 2 5.6	1.807	2.717	9.7	20.9
2 1	9 32.79	+ 2 54.0	1.771	2.728	6.1	20.7
2 11	9 24.90	+ 3 57.5	1.764	2.739	3.8	20.6
2 21	9 17.19	+ 5 10.3	1.784	2.751	5.4	20.7
3 2	9 10.62	+ 6 25.6	1.833	2.762	8.8	20.9
3 12	9 5.93	+ 7 37.1	1.907	2.774	12.1	21.1

90461 Matthewgraham 2 8.8 351°.22 0°.9/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.46	+15 48.8	1.617	2.429	16.1	19.0
1 12	9 45.84	+16 3.4	1.532	2.421	12.6	18.8
1 22	9 40.56	+16 28.6	1.469	2.414	8.4	18.5
2 1	9 33.19	+17 0.4	1.430	2.408	3.7	18.2
2 11	9 24.77	+17 32.9	1.418	2.403	1.7	18.1
2 21	9 16.52	+18 0.2	1.432	2.399	6.4	18.4
3 2	9 9.66	+18 18.1	1.472	2.397	10.9	18.6
3 12	9 5.15	+18 23.9	1.535	2.395	14.9	18.9

468887 2013 WC_{35} 2 8.8 336°.05 4°.2/12.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.84	+ 1 50.7	2.159	2.899	14.9	21.0
1 12	9 46.13	+ 1 31.0	2.064	2.898	12.3	20.8
1 22	9 40.35	+ 1 27.3	1.991	2.896	9.2	20.6
2 1	9 33.00	+ 1 39.9	1.943	2.895	6.1	20.4
2 11	9 24.84	+ 2 7.0	1.922	2.893	4.2	20.3
2 21	9 16.77	+ 2 45.1	1.930	2.892	5.5	20.4
3 2	9 9.69	+ 3 29.4	1.966	2.891	8.6	20.6
3 12	9 4.36	+ 4 14.9	2.028	2.890	11.7	20.8

401975 2002 TJ_{273} 2 8.8 105°.07 1°.0/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.52	+ 9 57.4	2.098	2.860	14.6	22.6
1 12	9 51.07	+10 13.8	2.029	2.886	11.4	22.4
1 22	9 43.46	+10 42.4	1.984	2.912	7.8	22.3
2 1	9 34.30	+11 20.1	1.965	2.938	3.8	22.1
2 11	9 24.52	+12 2.1	1.977	2.962	1.2	21.9
2 21	9 15.09	+12 43.9	2.018	2.986	4.8	22.2
3 2	9 6.94	+13 21.3	2.090	3.009	8.5	22.5
3 12	9 0.77	+13 51.2	2.186	3.031	11.7	22.7

284676 2008 RX_{89} 2 8.8 97°.13 3°.4/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.88	+ 5 20.2	1.514	2.286	18.8	21.4
1 12	9 50.78	+ 5 13.8	1.440	2.298	15.2	21.1
1 22	9 43.80	+ 5 27.7	1.385	2.308	10.9	20.9
2 1	9 34.63	+ 6 0.3	1.353	2.319	6.3	20.7
2 11	9 24.41	+ 6 47.4	1.349	2.330	3.4	20.5
2 21	9 14.50	+ 7 42.3	1.371	2.340	6.3	20.7
3 2	9 6.19	+ 8 37.9	1.421	2.351	10.7	21.0
3 12	9 0.46	+ 9 27.9	1.493	2.361	14.8	21.3

17265 Debennett 2 8.8 107°.81 1°.7/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.13	+15 49.6	1.582	2.381	17.0	18.5
1 12	9 51.70	+16 37.9	1.513	2.394	13.1	18.3
1 22	9 44.38	+17 38.6	1.466	2.408	8.7	18.0
2 1	9 34.86	+18 45.1	1.444	2.421	3.9	17.8
2 11	9 24.35	+19 49.0	1.450	2.433	2.4	17.7
2 21	9 14.21	+20 42.7	1.484	2.446	6.9	18.0
3 2	9 5.73	+21 21.4	1.545	2.458	11.4	18.3
3 12	8 59.85	+21 43.3	1.629	2.469	15.2	18.6

194273 2001 UH_{13} 2 8.8 81°.90 1°.6/ 9.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.73	+ 8 30.4	1.514	2.292	18.6	20.8
1 12	9 52.73	+ 8 48.7	1.456	2.322	14.6	20.6
1 22	9 44.90	+ 9 24.9	1.419	2.350	10.0	20.4
2 1	9 35.02	+10 15.0	1.406	2.378	5.0	20.1
2 11	9 24.35	+11 12.4	1.421	2.406	1.7	20.0
2 21	9 14.23	+12 9.9	1.464	2.433	5.9	20.3
3 2	9 5.89	+13 1.1	1.534	2.460	10.4	20.6
3 12	9 0.16	+13 41.9	1.628	2.486	14.3	20.9

66235 1999 ET 2 8.8 154°.30 0°.7/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.67	+14 57.2	1.872	2.654	15.4	20.3
1 12	9 52.49	+15 20.6	1.791	2.662	12.0	20.1
1 22	9 44.73	+15 54.2	1.732	2.669	8.0	19.9
2 1	9 35.00	+16 33.5	1.699	2.676	3.5	19.6
2 11	9 24.33	+17 12.9	1.696	2.682	1.4	19.5
2 21	9 13.92	+17 46.8	1.723	2.687	5.9	19.8
3 2	9 4.92	+18 11.4	1.777	2.691	10.1	20.0
3 12	8 58.21	+18 24.8	1.856	2.695	13.7	20.3

471438 2011 UB_{108} 2 8.8 226°.04 8°.9/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.29	−19 2.3	3.116	3.689	13.5	21.6
1 12	9 46.00	−20 7.0	3.008	3.680	12.4	21.5
1 22	9 40.07	−20 53.9	2.919	3.671	11.1	21.3
2 1	9 32.85	−21 19.6	2.850	3.662	9.9	21.2
2 11	9 24.92	−21 22.4	2.806	3.652	9.1	21.2
2 21	9 16.94	−21 2.5	2.787	3.642	8.9	21.1
3 2	9 9.60	−20 22.3	2.794	3.632	9.5	21.2
3 12	9 3.52	−19 26.3	2.825	3.621	10.7	21.2

503430 2016 ED_{32} 2 8.8 137°.70 5°.0/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.88	+25 54.0	2.151	2.952	13.0	21.3
1 12	9 49.47	+27 22.0	2.080	2.961	10.1	21.1
1 22	9 42.68	+28 53.1	2.034	2.969	7.2	20.9
2 1	9 34.08	+30 19.4	2.016	2.976	5.1	20.8
2 11	9 24.59	+31 32.8	2.027	2.984	5.7	20.9
2 21	9 15.30	+32 27.5	2.067	2.991	8.2	21.0
3 2	9 7.25	+33 0.9	2.134	2.997	11.1	21.2
3 12	9 1.28	+33 13.5	2.223	3.003	13.7	21.4

132060 2002 CH_{143} 2 8.8 121°.22 1°.7/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.76	+ 8 13.1	1.775	2.544	16.6	20.6
1 12	9 51.02	+ 8 27.3	1.699	2.558	13.2	20.4
1 22	9 43.74	+ 8 57.6	1.644	2.573	9.1	20.1
2 1	9 34.55	+ 9 41.2	1.615	2.586	4.7	19.9
2 11	9 24.47	+10 32.9	1.615	2.600	1.8	19.7
2 21	9 14.70	+11 26.5	1.644	2.612	5.5	20.0
3 2	9 6.34	+12 16.3	1.700	2.624	9.7	20.3
3 12	9 0.26	+12 57.9	1.781	2.636	13.4	20.5

318013 2004 CY_{118} 2 8.8 60°.57 0°.7/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.94	+13 49.2	1.591	2.390	16.9	21.1
1 12	9 49.20	+14 21.8	1.520	2.401	13.1	20.9
1 22	9 42.71	+15 7.9	1.470	2.411	8.7	20.6
2 1	9 34.13	+16 2.4	1.445	2.422	3.8	20.4
2 11	9 24.60	+16 58.1	1.447	2.433	1.5	20.2
2 21	9 15.39	+17 48.0	1.478	2.444	6.3	20.6
3 2	9 7.73	+18 26.9	1.534	2.455	10.8	20.9
3 12	9 2.53	+18 51.9	1.614	2.466	14.7	21.1

394939 2008 XP_{39} 2 8.8 104°.97 1°.8/10.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 58.59	+ 8 32.7	1.745	2.510	17.0	22.0
1 12	9 53.12	+ 8 36.7	1.677	2.534	13.4	21.8
1 22	9 45.05	+ 8 55.9	1.630	2.558	9.3	21.6
2 1	9 35.09	+ 9 27.5	1.610	2.581	4.8	21.4
2 11	9 24.35	+10 6.7	1.618	2.603	1.9	21.3
2 21	9 14.04	+10 47.9	1.656	2.624	5.5	21.5
3 2	9 5.29	+11 26.2	1.721	2.644	9.7	21.8
3 12	8 58.92	+11 57.6	1.811	2.664	13.3	22.1

304078 2006 GW_{35} 2 8.8 221°.22 4°.2/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 57.75	+23 21.8	1.793	2.595	15.2	20.6
1 12	9 52.99	+24 10.8	1.706	2.589	11.9	20.3
1 22	9 45.34	+25 5.0	1.642	2.582	8.1	20.1
2 1	9 35.38	+25 57.1	1.605	2.575	4.8	19.9
2 11	9 24.24	+26 38.9	1.596	2.568	4.8	19.9
2 21	9 13.26	+27 4.4	1.614	2.560	8.2	20.1
3 2	9 3.79	+27 10.7	1.660	2.552	12.1	20.3
3 12	8 56.86	+26 58.4	1.728	2.543	15.6	20.5

432579 2010 OX_{83} 2 8.8 271°.14 5°.3/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.97	− 1 10.2	2.406	3.121	14.2	21.4
1 12	9 46.84	− 1 50.9	2.302	3.113	11.9	21.2
1 22	9 40.77	− 2 17.0	2.219	3.105	9.4	21.0
2 1	9 33.21	− 2 26.9	2.162	3.098	6.8	20.8
2 11	9 24.84	− 2 21.0	2.132	3.090	5.3	20.7
2 21	9 16.49	− 2 1.3	2.131	3.082	6.1	20.8
3 2	9 9.01	− 1 31.2	2.159	3.074	8.5	20.9
3 12	9 3.10	− 0 55.5	2.211	3.066	11.2	21.0

60011 1999 TA_{20} 2 8.8 249°.77 0°.3/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.65	+13 6.1	2.072	2.857	14.0	19.8
1 12	9 46.93	+13 39.9	1.980	2.853	10.9	19.5
1 22	9 41.00	+14 25.6	1.911	2.849	7.3	19.3
2 1	9 33.35	+15 19.3	1.869	2.845	3.2	19.0
2 11	9 24.81	+16 15.6	1.855	2.841	1.1	18.9
2 21	9 16.37	+17 8.8	1.871	2.837	5.3	19.2
3 2	9 9.00	+17 54.1	1.915	2.833	9.2	19.4
3 12	9 3.52	+18 28.3	1.984	2.829	12.7	19.6

99514 2002 EL_{26} 2 8.8 312°.39 2°.9/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.03	+ 7 17.2	1.482	2.268	18.5	19.7
1 12	9 48.89	+ 7 7.0	1.392	2.260	15.0	19.4
1 22	9 42.80	+ 7 15.3	1.322	2.252	10.7	19.1
2 1	9 34.31	+ 7 41.2	1.275	2.245	5.9	18.9
2 11	9 24.52	+ 8 20.7	1.254	2.238	2.9	18.6
2 21	9 14.80	+ 9 7.6	1.260	2.231	6.5	18.8
3 2	9 6.56	+ 9 55.2	1.291	2.224	11.4	19.1
3 12	9 0.91	+10 37.1	1.345	2.218	15.8	19.3

79227 1994 PK_{17} 2 8.8 115°.11 0°.9/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.02	+ 9 34.0	1.961	2.731	15.2	20.6
1 12	9 49.45	+10 2.2	1.885	2.748	11.9	20.4
1 22	9 42.57	+10 44.7	1.832	2.763	8.1	20.2
2 1	9 34.00	+11 38.0	1.806	2.779	3.9	20.0
2 11	9 24.66	+12 36.6	1.808	2.794	1.1	19.8
2 21	9 15.58	+13 34.6	1.840	2.808	5.1	20.1
3 2	9 7.77	+14 26.7	1.901	2.822	9.0	20.4
3 12	9 1.99	+15 9.2	1.987	2.836	12.5	20.6

60110 1999 TB_{213} 2 8.8 5°.40 0°.1/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.91	+14 9.7	1.757	2.553	15.7	18.9
1 12	9 48.24	+14 18.7	1.675	2.553	12.3	18.7
1 22	9 42.01	+14 38.5	1.613	2.554	8.2	18.4
2 1	9 33.82	+15 5.5	1.578	2.554	3.7	18.2
2 11	9 24.69	+15 34.7	1.570	2.556	1.1	18.0
2 21	9 15.77	+16 1.0	1.590	2.557	5.8	18.3
3 2	9 8.21	+16 20.4	1.636	2.559	10.1	18.6
3 12	9 2.88	+16 30.2	1.707	2.562	13.9	18.8

336569 2009 SV_{111} 2 8.8 178°.55 0°.4/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 58.62	+12 16.0	1.564	2.350	17.7	21.9
1 12	9 53.82	+12 26.5	1.480	2.351	14.0	21.6
1 22	9 45.96	+12 51.2	1.416	2.353	9.5	21.3
2 1	9 35.69	+13 26.4	1.378	2.353	4.4	21.0
2 11	9 24.18	+14 6.1	1.367	2.353	1.1	20.8
2 21	9 12.89	+14 44.1	1.385	2.353	6.4	21.2
3 2	9 3.22	+15 14.8	1.429	2.351	11.4	21.4
3 12	8 56.27	+15 34.9	1.496	2.349	15.6	21.7

417662 2006 YF_{31} 2 8.8 81°.83 1°.0/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.99	+15 29.2	1.789	2.583	15.5	21.8
1 12	9 49.73	+15 54.9	1.714	2.593	12.0	21.6
1 22	9 42.92	+16 30.8	1.662	2.602	8.0	21.3
2 1	9 34.20	+17 12.2	1.635	2.612	3.5	21.1
2 11	9 24.61	+17 53.0	1.636	2.621	1.6	21.0
2 21	9 15.32	+18 27.8	1.666	2.631	6.0	21.3
3 2	9 7.44	+18 52.6	1.724	2.640	10.1	21.5
3 12	9 1.82	+19 5.3	1.805	2.650	13.7	21.8

476810 2008 UM_{193} 2 8.8 1°.07 20°.7/22.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.52	−21 52.1	1.140	1.809	29.1	21.1
1 12	9 48.77	−24 29.2	1.075	1.808	27.2	21.0
1 22	9 43.35	−26 28.3	1.020	1.808	25.1	20.8
2 1	9 34.79	−27 35.3	0.978	1.807	23.1	20.6
2 11	9 24.38	−27 40.3	0.950	1.808	21.5	20.5
2 21	9 13.92	−26 40.6	0.938	1.809	20.7	20.5
3 2	9 5.35	−24 42.8	0.943	1.810	21.1	20.5
3 12	9 0.20	−22 3.6	0.964	1.812	22.5	20.6

187869 2000 QH_{51} 2 8.8 113°.68 2°.6/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.37	+ 3 19.3	2.080	2.829	15.1	20.3
1 12	9 46.60	+ 3 54.1	1.997	2.840	12.2	20.1
1 22	9 40.64	+ 4 47.8	1.934	2.851	8.7	19.9
2 1	9 33.15	+ 5 58.2	1.898	2.862	5.0	19.7
2 11	9 24.91	+ 7 20.4	1.891	2.873	2.6	19.6
2 21	9 16.82	+ 8 47.6	1.914	2.883	4.9	19.7
3 2	9 9.81	+10 13.2	1.966	2.893	8.5	20.0
3 12	9 4.62	+11 31.2	2.044	2.902	11.8	20.2

12065 Jaworski 2 8.8 258°.19 0°.6/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.20	+10 41.0	1.820	2.600	15.8	19.5
1 12	9 49.40	+11 3.5	1.716	2.584	12.6	19.3
1 22	9 42.96	+11 41.4	1.633	2.568	8.6	19.0
2 1	9 34.37	+12 31.8	1.576	2.551	4.1	18.7
2 11	9 24.54	+13 29.3	1.547	2.533	1.1	18.4
2 21	9 14.63	+14 27.4	1.547	2.515	5.8	18.7
3 2	9 5.89	+15 19.9	1.575	2.497	10.5	18.9
3 12	8 59.36	+16 2.0	1.626	2.479	14.6	19.1

221351 2005 WN_{108} 2 8.9 135°.70 0°.6/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.59	+10 53.4	2.096	2.869	14.2	21.0
1 12	9 48.29	+11 13.8	2.012	2.876	11.2	20.8
1 22	9 41.80	+11 46.5	1.950	2.883	7.6	20.6
2 1	9 33.68	+12 28.3	1.915	2.889	3.6	20.4
2 11	9 24.77	+13 14.5	1.910	2.896	0.9	20.2
2 21	9 16.05	+14 0.3	1.934	2.902	4.9	20.5
3 2	9 8.45	+14 40.9	1.986	2.907	8.7	20.7
3 12	9 2.75	+15 13.3	2.064	2.913	12.1	20.9

497810 2006 TJ_{70} 2 8.9 148°.20 1°.6/10.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.46	+ 7 23.4	2.858	3.606	11.4	22.3
1 12	9 45.26	+ 7 31.7	2.766	3.613	9.1	22.1
1 22	9 39.49	+ 7 50.4	2.698	3.619	6.4	21.9
2 1	9 32.56	+ 8 18.0	2.658	3.625	3.5	21.8
2 11	9 25.09	+ 8 51.8	2.648	3.630	1.6	21.6
2 21	9 17.73	+ 9 28.5	2.668	3.636	3.8	21.8
3 2	9 11.14	+10 5.0	2.719	3.641	6.6	22.0
3 12	9 5.88	+10 38.1	2.797	3.646	9.3	22.2

424261 2007 SK_{9} 2 8.9 138°.20 3°.4/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.36	+ 0 54.7	2.442	3.172	13.6	21.7
1 12	9 44.73	+ 1 10.5	2.348	3.176	11.1	21.6
1 22	9 39.30	+ 1 43.3	2.277	3.181	8.3	21.4
2 1	9 32.54	+ 2 32.1	2.231	3.185	5.3	21.2
2 11	9 25.10	+ 3 33.8	2.214	3.188	3.4	21.1
2 21	9 17.76	+ 4 44.0	2.228	3.192	4.7	21.2
3 2	9 11.28	+ 5 57.0	2.270	3.196	7.5	21.3
3 12	9 6.31	+ 7 7.7	2.340	3.199	10.5	21.5

1689 Floris–Jan 2 8.9 85°.12 1°.1/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.03	+13 47.2	1.650	2.443	16.7	15.7
1 12	9 50.62	+14 40.8	1.588	2.465	12.9	15.5
1 22	9 43.53	+15 48.0	1.547	2.488	8.5	15.3
2 1	9 34.47	+17 2.4	1.533	2.510	3.7	15.1
2 11	9 24.58	+18 15.7	1.547	2.532	1.8	15.0
2 21	9 15.11	+19 20.4	1.590	2.553	6.3	15.3
3 2	9 7.22	+20 11.3	1.660	2.574	10.6	15.6
3 12	9 1.75	+20 46.0	1.753	2.595	14.2	15.9

247582 2002 TR_{47} 2 8.9 108°.72 2°.7/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.54	+20 22.1	2.043	2.832	14.0	21.1
1 12	9 52.08	+21 9.9	1.978	2.855	10.8	20.9
1 22	9 44.27	+22 3.1	1.938	2.877	7.1	20.8
2 1	9 34.74	+22 55.5	1.925	2.898	3.7	20.6
2 11	9 24.52	+23 40.7	1.942	2.919	3.3	20.6
2 21	9 14.68	+24 14.0	1.989	2.939	6.4	20.8
3 2	9 6.25	+24 32.9	2.063	2.959	9.8	21.1
3 12	8 59.98	+24 37.2	2.162	2.978	12.8	21.3

165916 2001 TD_{55} 2 8.9 94°.37 4°.0/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.96	+ 0 27.5	2.392	3.120	13.9	20.3
1 12	9 45.20	+ 0 20.6	2.302	3.127	11.5	20.1
1 22	9 39.62	+ 0 29.8	2.234	3.133	8.7	19.9
2 1	9 32.67	+ 0 55.0	2.191	3.140	5.8	19.8
2 11	9 25.07	+ 1 33.9	2.177	3.146	4.1	19.6
2 21	9 17.59	+ 2 23.0	2.192	3.153	5.1	19.7
3 2	9 11.01	+ 3 17.4	2.235	3.159	7.8	19.9
3 12	9 5.99	+ 4 12.2	2.305	3.165	10.6	20.1

329802 2004 QX_{20} 2 8.9 200°.69 10°.4/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.90	−24 44.9	3.085	3.601	14.4	20.8
1 12	9 48.91	−25 58.6	2.981	3.596	13.5	20.7
1 22	9 42.09	−26 52.6	2.894	3.590	12.4	20.6
2 1	9 33.82	−27 22.6	2.826	3.583	11.4	20.5
2 11	9 24.74	−27 26.1	2.780	3.576	10.6	20.5
2 21	9 15.59	−27 2.9	2.758	3.568	10.4	20.4
3 2	9 7.14	−26 15.3	2.760	3.559	10.8	20.4
3 12	9 0.09	−25 8.2	2.786	3.549	11.6	20.5

474104 2016 LB_{18} 2 8.9 157.°91 1.°8/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.03	+ 5 22.8	2.834	3.577	11.6	22.2
1 12	9 44.22	+ 5 50.5	2.739	3.581	9.3	22.1
1 22	9 38.84	+ 6 30.9	2.667	3.585	6.6	21.9
2 1	9 32.30	+ 7 22.2	2.624	3.589	3.7	21.7
2 11	9 25.19	+ 8 21.2	2.611	3.593	1.8	21.6
2 21	9 18.16	+ 9 23.6	2.628	3.596	3.8	21.7
3 2	9 11.88	+10 25.2	2.676	3.599	6.7	21.9
3 12	9 6.89	+11 22.3	2.751	3.602	9.4	22.1

140639 2001 UQ_{22} 2 8.9 212.°95 3.°6/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.46	+ 2 31.4	2.551	3.282	13.1	19.9
1 12	9 46.30	+ 2 13.5	2.451	3.279	10.7	19.7
1 22	9 40.34	+ 2 8.8	2.372	3.276	8.0	19.5
2 1	9 33.01	+ 2 17.2	2.320	3.272	5.3	19.3
2 11	9 24.99	+ 2 37.3	2.297	3.269	3.6	19.2
2 21	9 17.03	+ 3 6.3	2.304	3.265	4.8	19.3
3 2	9 9.89	+ 3 40.5	2.340	3.261	7.6	19.5
3 12	9 4.25	+ 4 16.0	2.402	3.257	10.4	19.6

13361 1998 UM_{8} 2 8.9 242.°27 2.°1/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.48	+16 43.8	1.723	2.519	15.9	18.0
1 12	9 51.41	+17 33.3	1.625	2.506	12.5	17.7
1 22	9 44.44	+18 35.7	1.550	2.492	8.3	17.4
2 1	9 35.09	+19 45.0	1.501	2.478	3.9	17.1
2 11	9 24.39	+20 53.0	1.480	2.463	2.8	17.0
2 21	9 13.65	+21 51.6	1.488	2.447	7.2	17.2
3 2	9 4.26	+22 35.1	1.522	2.431	11.8	17.5
3 12	8 57.34	+23 0.9	1.580	2.414	15.9	17.7

339559 2005 JW_{138} 2 8.9 181.°86 4.°9/14.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.06	− 5 48.0	3.186	3.858	11.7	22.0
1 12	9 44.84	− 6 6.0	3.082	3.859	10.0	21.8
1 22	9 39.18	− 6 9.4	3.000	3.859	8.1	21.7
2 1	9 32.45	− 5 57.5	2.944	3.859	6.2	21.6
2 11	9 25.16	− 5 31.1	2.916	3.858	5.0	21.5
2 21	9 17.92	− 4 52.2	2.918	3.857	5.3	21.5
3 2	9 11.33	− 4 4.0	2.949	3.855	6.8	21.6
3 12	9 5.90	− 3 10.8	3.008	3.853	8.8	21.7

124217 2001 PV_{5} 2 8.9 202.°47 1.°8/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.02	+16 8.2	1.839	2.628	15.3	21.0
1 12	9 51.52	+17 1.1	1.748	2.625	11.9	20.7
1 22	9 44.31	+18 6.2	1.680	2.620	7.9	20.5
2 1	9 34.96	+19 17.6	1.638	2.615	3.6	20.2
2 11	9 24.45	+20 27.5	1.626	2.609	2.5	20.1
2 21	9 14.01	+21 28.6	1.643	2.602	6.7	20.4
3 2	9 4.90	+22 15.4	1.687	2.594	11.0	20.6
3 12	8 58.09	+22 45.6	1.756	2.586	14.7	20.8

106287 2000 UP_{77} 2 8.9 117.°30 0.°7/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.72	+13 56.2	1.881	2.662	15.3	20.9
1 12	9 51.65	+14 37.1	1.810	2.681	11.9	20.8
1 22	9 44.10	+15 29.5	1.763	2.700	7.9	20.5
2 1	9 34.73	+16 28.4	1.742	2.718	3.4	20.3
2 11	9 24.55	+17 27.0	1.751	2.736	1.4	20.2
2 21	9 14.72	+18 19.2	1.790	2.753	5.7	20.5
3 2	9 6.31	+19 0.6	1.856	2.769	9.8	20.8
3 12	9 0.11	+19 29.0	1.948	2.785	13.2	21.0

47126 1999 CH_{101} 2 8.9 53.°93 1.°2/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.45	+ 7 39.8	2.081	2.852	14.4	18.7
1 12	9 45.10	+ 8 15.8	1.999	2.861	11.4	18.5
1 22	9 39.70	+ 9 7.5	1.940	2.870	7.8	18.3
2 1	9 32.76	+10 11.7	1.908	2.879	4.0	18.1
2 11	9 25.09	+11 23.3	1.904	2.889	1.3	17.9
2 21	9 17.58	+12 35.9	1.929	2.899	4.7	18.1
3 2	9 11.13	+13 44.0	1.983	2.909	8.5	18.4
3 12	9 6.46	+14 42.7	2.063	2.919	11.8	18.6

456727 2007 SY_{13} 2 8.9 144.°72 0.°3/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.43	+11 48.3	2.066	2.835	14.5	22.5
1 12	9 51.26	+12 10.9	1.985	2.848	11.4	22.3
1 22	9 43.78	+12 45.1	1.926	2.859	7.7	22.1
2 1	9 34.59	+13 27.4	1.895	2.870	3.5	21.8
2 11	9 24.59	+14 12.8	1.894	2.880	0.9	21.6
2 21	9 14.83	+14 56.3	1.923	2.889	5.1	21.9
3 2	9 6.31	+15 33.4	1.980	2.897	9.0	22.2
3 12	8 59.81	+16 1.4	2.063	2.905	12.4	22.4

335936 2007 TU_{50} 2 8.9 162.°56 0.°0/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.11	+13 8.7	2.960	3.723	10.7	22.0
1 12	9 46.50	+13 31.7	2.869	3.729	8.3	21.8
1 22	9 40.31	+14 2.2	2.802	3.735	5.6	21.6
2 1	9 32.96	+14 37.6	2.765	3.740	2.5	21.4
2 11	9 25.05	+15 14.5	2.759	3.745	0.7	21.3
2 21	9 17.25	+15 49.6	2.784	3.749	3.8	21.5
3 2	9 10.24	+16 20.0	2.839	3.752	6.8	21.7
3 12	9 4.56	+16 43.6	2.922	3.755	9.4	21.9

79935 1999 CF_{72} 2 8.9 161.°14 2.°5/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 55.86	+ 7 4.5	2.286	3.033	14.0	19.3
1 12	9 50.61	+ 6 47.4	2.195	3.039	11.2	19.1
1 22	9 43.26	+ 6 41.9	2.126	3.044	8.0	18.9
2 1	9 34.35	+ 6 47.1	2.084	3.048	4.6	18.7
2 11	9 24.67	+ 7 0.8	2.072	3.053	2.5	18.6
2 21	9 15.15	+ 7 19.9	2.090	3.056	4.8	18.7
3 2	9 6.69	+ 7 40.9	2.138	3.059	8.2	19.0
3 12	9 0.03	+ 8 0.5	2.212	3.062	11.4	19.2

55162 2001 QT_{238} 2 8.9 125.°72 0.°0/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.64	+12 57.7	1.882	2.666	15.2	19.5
1 12	9 49.40	+13 13.7	1.798	2.670	11.9	19.3
1 22	9 42.72	+13 41.2	1.737	2.674	8.0	19.1
2 1	9 34.17	+14 16.7	1.701	2.677	3.6	18.8
2 11	9 24.71	+14 55.1	1.695	2.681	1.0	18.6
2 21	9 15.46	+15 31.3	1.717	2.684	5.5	19.0
3 2	9 7.50	+16 0.8	1.767	2.687	9.7	19.2
3 12	9 1.68	+16 20.8	1.841	2.690	13.3	19.4

14085 1997 GA_{37} 2 8.9 68.°12 4.°0/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.58	+ 3 57.3	1.355	2.134	20.3	18.7
1 12	9 50.09	+ 3 51.6	1.285	2.146	16.5	18.5
1 22	9 43.53	+ 4 9.6	1.234	2.158	12.0	18.2
2 1	9 34.62	+ 4 50.4	1.205	2.170	7.1	18.0
2 11	9 24.59	+ 5 49.0	1.202	2.182	4.0	17.9
2 21	9 14.91	+ 6 57.4	1.225	2.194	6.8	18.1
3 2	9 6.98	+ 8 6.9	1.273	2.207	11.4	18.3
3 12	9 1.79	+ 9 9.7	1.344	2.219	15.7	18.6

143527 2003 EN_{16} 2 8.9 37.°49 18.°5/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.49	−38 12.8	0.440	1.184	52.9	19.0
1 12	9 43.51	−36 38.2	0.435	1.224	47.4	18.9
1 22	9 39.75	−33 31.9	0.429	1.269	40.7	18.8
2 1	9 32.80	−28 41.4	0.428	1.315	33.2	18.6
2 11	9 25.21	−22 17.0	0.439	1.364	25.6	18.6
2 21	9 19.26	−14 59.9	0.466	1.414	20.0	18.6
3 2	9 16.59	− 7 48.2	0.513	1.464	18.6	18.8
3 12	9 17.85	− 1 32.3	0.581	1.514	21.0	19.3

3249 Musashino 2 8.9 81.°97 2.°0/ 7.6 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 58.56	+16 41.1	1.526	2.325	17.5	17.2
1 12	9 53.49	+17 30.0	1.471	2.353	13.5	17.0
1 22	9 45.49	+18 29.6	1.438	2.380	8.8	16.8
2 1	9 35.37	+19 32.6	1.430	2.407	4.0	16.6
2 11	9 24.44	+20 30.6	1.451	2.434	2.7	16.5
2 21	9 14.09	+21 16.6	1.499	2.460	7.0	16.9
3 2	9 5.60	+21 46.7	1.574	2.485	11.3	17.2
3 12	8 59.81	+22 0.4	1.672	2.510	15.0	17.4

481787 2008 SF_{298} 2 8.9 129.°88 17.°4/ 1.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 22.86	+49 24.5	1.193	1.978	22.2	20.8
1 12	10 15.64	+51 19.4	1.152	1.985	19.9	20.7
1 22	10 1.89	+52 51.5	1.129	1.992	18.1	20.6
2 1	9 43.06	+53 39.4	1.125	1.999	17.4	20.6
2 11	9 22.40	+53 28.1	1.141	2.006	18.1	20.6
2 21	9 3.73	+52 16.5	1.177	2.012	19.9	20.8
3 2	8 49.91	+50 15.5	1.232	2.017	22.1	20.9
3 12	8 42.08	+47 42.0	1.302	2.022	24.3	21.1

488979 2005 UB_{352} 2 8.9 148.°30 1.°2/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.82	+17 21.6	2.616	3.388	11.7	22.5
1 12	9 50.31	+17 49.2	2.534	3.401	9.1	22.3
1 22	9 42.92	+18 22.6	2.477	3.413	6.0	22.1
2 1	9 34.15	+18 57.9	2.448	3.424	2.7	21.9
2 11	9 24.76	+19 30.9	2.451	3.434	1.6	21.8
2 21	9 15.58	+19 58.0	2.485	3.444	4.7	22.1
3 2	9 7.41	+20 16.7	2.549	3.453	7.9	22.3
3 12	9 0.89	+20 25.9	2.640	3.461	10.6	22.5

247486 2002 LA_{38} 2 8.9 186.°68 1.°7/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.46	+17 10.4	2.183	2.966	13.4	21.4
1 12	9 50.59	+17 54.2	2.093	2.966	10.4	21.2
1 22	9 43.42	+18 46.7	2.026	2.965	6.9	21.0
2 1	9 34.49	+19 42.8	1.987	2.963	3.2	20.8
2 11	9 24.65	+20 36.6	1.979	2.961	2.2	20.7
2 21	9 14.93	+21 22.5	2.001	2.958	5.8	20.9
3 2	9 6.33	+21 56.7	2.051	2.954	9.5	21.1
3 12	8 59.70	+22 17.5	2.126	2.950	12.7	21.3

204965 1989 SY_{4} 2 8.9 120.°57 1.°9/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 58.36	+17 24.3	1.995	2.777	14.5	21.0
1 12	9 52.78	+18 10.9	1.926	2.799	11.2	20.9
1 22	9 44.79	+19 5.5	1.882	2.820	7.4	20.7
2 1	9 35.03	+20 2.5	1.865	2.841	3.4	20.5
2 11	9 24.53	+20 55.1	1.878	2.860	2.4	20.4
2 21	9 14.38	+21 38.0	1.922	2.879	6.1	20.7
3 2	9 5.65	+22 7.8	1.993	2.896	9.7	20.9
3 12	8 59.11	+22 23.6	2.090	2.913	12.9	21.2

170119 2002 YY_{16} 2 8.9 98°.01 4°.6/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 52.18	+26 34.8	2.329	3.130	12.1	20.0
1 12	9 47.95	+27 44.3	2.259	3.139	9.5	19.9
1 22	9 41.58	+28 55.3	2.214	3.148	6.7	19.7
2 1	9 33.61	+30 1.3	2.196	3.157	4.8	19.6
2 11	9 24.90	+30 55.6	2.208	3.166	5.2	19.7
2 21	9 16.40	+31 33.9	2.249	3.175	7.4	19.8
3 2	9 9.05	+31 53.9	2.316	3.183	10.1	20.0
3 12	9 3.57	+31 56.2	2.407	3.192	12.6	20.2

171583 1999 VQ_{88} 2 8.9 187°.00 0°.6/ 9.4 18

1 2	9 54.65	+10 39.8	2.207	2.972	13.9	21.0
1 12	9 49.87	+11 3.3	2.112	2.971	10.9	20.8
1 22	9 42.90	+11 39.0	2.040	2.970	7.4	20.6
2 1	9 34.25	+12 24.0	1.995	2.969	3.5	20.3
2 11	9 24.72	+13 13.8	1.981	2.966	0.9	20.1
2 21	9 15.28	+14 3.2	1.996	2.963	4.9	20.4
3 2	9 6.90	+14 47.7	2.041	2.959	8.7	20.6
3 12	9 0.37	+15 23.8	2.112	2.955	12.1	20.8

21265 1996 HJ_{23} 2 8.9 122°.16 0°.0/ 8.9 18

1 2	9 56.96	+11 41.2	1.933	2.705	15.3	19.3
1 12	9 51.76	+12 16.3	1.860	2.725	11.9	19.1
1 22	9 44.15	+13 4.3	1.811	2.745	8.0	18.9
2 1	9 34.77	+14 0.8	1.788	2.763	3.6	18.7
2 11	9 24.61	+14 59.7	1.795	2.781	0.9	18.5
2 21	9 14.77	+15 55.0	1.832	2.798	5.3	18.9
3 2	9 6.29	+16 41.9	1.898	2.814	9.4	19.2
3 12	8 59.97	+17 17.4	1.989	2.830	12.8	19.4

30728 1979 QD_{2} 2 8.9 156°.58 0°.4/ 8.4 18

1 2	9 50.89	+14 35.9	2.947	3.716	10.6	20.8
1 12	9 46.36	+15 1.7	2.858	3.723	8.2	20.6
1 22	9 40.23	+15 34.3	2.794	3.729	5.5	20.4
2 1	9 32.94	+16 10.9	2.759	3.735	2.4	20.2
2 11	9 25.11	+16 47.8	2.756	3.741	0.9	20.1
2 21	9 17.40	+17 21.8	2.783	3.746	4.0	20.4
3 2	9 10.47	+17 50.1	2.841	3.751	6.9	20.6
3 12	9 4.90	+18 10.9	2.925	3.755	9.4	20.7

498124 2007 TP_{6} 2 8.9 129°.20 0°.4/ 9.2 17

1 2	9 53.47	+12 54.6	2.692	3.455	11.7	21.9
1 12	9 48.41	+12 58.6	2.608	3.468	9.1	21.7
1 22	9 41.61	+13 9.9	2.549	3.480	6.1	21.5
2 1	9 33.56	+13 26.3	2.518	3.492	2.8	21.3
2 11	9 24.95	+13 44.7	2.518	3.504	0.7	21.2
2 21	9 16.54	+14 2.2	2.549	3.515	4.0	21.4
3 2	9 9.07	+14 16.4	2.610	3.526	7.1	21.6
3 12	9 3.10	+14 25.4	2.697	3.537	9.9	21.8

372645 2009 WB_{24} 2 8.9 48°.92 3°.3/ 6.4 18

1 2	9 52.32	+20 42.7	1.788	2.596	15.0	20.4
1 12	9 48.56	+21 37.6	1.718	2.605	11.5	20.2
1 22	9 42.22	+22 39.4	1.672	2.615	7.7	20.0
2 1	9 33.97	+23 41.2	1.651	2.625	4.1	19.8
2 11	9 24.83	+24 35.4	1.659	2.635	3.9	19.8
2 21	9 16.00	+25 15.9	1.695	2.646	7.3	20.0
3 2	9 8.60	+25 39.5	1.756	2.657	11.0	20.2
3 12	9 3.47	+25 45.7	1.841	2.667	14.3	20.5

452613 2005 QD_{92} 2 8.9 169°.79 0°.5/ 9.2 18

1 2	9 57.67	+11 8.2	1.906	2.676	15.6	22.8
1 12	9 52.53	+11 31.9	1.819	2.681	12.3	22.6
1 22	9 44.83	+12 9.1	1.754	2.686	8.3	22.3
2 1	9 35.16	+12 56.3	1.715	2.689	3.9	22.1
2 11	9 24.50	+13 48.0	1.706	2.692	1.0	21.9
2 21	9 14.01	+14 38.3	1.727	2.694	5.5	22.2
3 2	9 4.84	+15 21.9	1.776	2.695	9.8	22.4
3 12	8 57.88	+15 55.5	1.851	2.695	13.5	22.7

42865 1999 RR_{103} 2 8.9 178°.68 2°.7/10.7 18

1 2	9 54.88	+ 6 16.1	1.940	2.697	15.8	19.9
1 12	9 50.31	+ 6 9.9	1.849	2.699	12.7	19.6
1 22	9 43.33	+ 6 19.0	1.779	2.700	9.1	19.4
2 1	9 34.48	+ 6 42.2	1.735	2.700	5.2	19.2
2 11	9 24.68	+ 7 16.3	1.719	2.700	2.8	19.0
2 21	9 15.00	+ 7 56.8	1.732	2.700	5.4	19.2
3 2	9 6.53	+ 8 38.5	1.774	2.699	9.3	19.4
3 12	9 0.13	+ 9 16.6	1.840	2.697	13.0	19.6

316075 2009 JD_{7} 2 8.9 266°.44 0°.9/ 8.2 18

1 2	9 51.71	+13 27.4	1.737	2.532	15.9	20.8
1 12	9 48.34	+14 14.9	1.643	2.522	12.4	20.5
1 22	9 42.31	+15 17.8	1.571	2.512	8.3	20.3
2 1	9 34.13	+16 31.1	1.525	2.502	3.7	20.0
2 11	9 24.76	+17 47.3	1.507	2.492	1.7	19.8
2 21	9 15.41	+18 58.5	1.517	2.482	6.4	20.1
3 2	9 7.32	+19 57.9	1.554	2.471	11.0	20.3
3 12	9 1.52	+20 41.5	1.615	2.461	15.0	20.5

137202 1999 KJ_{13} 2 8.9 171°.27 6°.0/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.00	−11 27.5	3.416	4.044	11.7	21.0
1 12	9 44.73	−11 56.2	3.314	4.048	10.3	20.9
1 22	9 39.08	−12 9.4	3.233	4.051	8.7	20.8
2 1	9 32.43	−12 5.8	3.177	4.054	7.2	20.7
2 11	9 25.26	−11 45.4	3.147	4.056	6.2	20.6
2 21	9 18.14	−11 9.8	3.147	4.058	6.2	20.6
3 2	9 11.63	−10 22.0	3.174	4.059	7.1	20.7
3 12	9 6.22	− 9 26.1	3.229	4.060	8.6	20.8

363302 2002 ME_{5} 2 8.9 195°.22 5°.2/ 4.2 18

1 2	9 54.49	+24 10.3	1.926	2.731	14.2	20.7
1 12	9 50.39	+25 52.4	1.846	2.729	11.0	20.5
1 22	9 43.61	+27 41.6	1.790	2.727	7.8	20.3
2 1	9 34.69	+29 28.6	1.761	2.725	5.4	20.1
2 11	9 24.62	+31 3.2	1.762	2.722	6.0	20.2
2 21	9 14.61	+32 17.5	1.792	2.718	9.0	20.3
3 2	9 5.92	+33 7.3	1.848	2.715	12.3	20.5
3 12	8 59.53	+33 32.5	1.925	2.710	15.3	20.7

141146 2001 XU_{105} 2 8.9 120°.10 5°.8/14.2 18

1 2	9 50.08	− 5 4.5	2.584	3.273	13.8	19.7
1 12	9 45.96	− 5 38.8	2.492	3.280	11.8	19.6
1 22	9 40.09	− 5 56.5	2.421	3.287	9.5	19.4
2 1	9 32.93	− 5 56.3	2.375	3.293	7.3	19.3
2 11	9 25.13	− 5 38.7	2.356	3.300	5.9	19.2
2 21	9 17.42	− 5 6.0	2.365	3.306	6.3	19.2
3 2	9 10.55	− 4 22.1	2.403	3.312	8.0	19.4
3 12	9 5.15	− 3 32.0	2.467	3.318	10.3	19.5

148549 2001 QL_{147} 2 8.9 56°.72 8°.2/ 2.6 18

1 2	9 55.79	+31 53.8	1.620	2.437	15.8	19.0
1 12	9 51.79	+33 37.8	1.570	2.453	12.7	18.9
1 22	9 44.64	+35 19.0	1.543	2.468	9.8	18.7
2 1	9 35.11	+36 45.8	1.540	2.484	8.3	18.7
2 11	9 24.54	+37 47.9	1.565	2.500	9.1	18.8
2 21	9 14.47	+38 19.9	1.614	2.517	11.5	18.9
3 2	9 6.30	+38 21.6	1.687	2.533	14.3	19.2
3 12	9 0.97	+37 56.9	1.780	2.550	16.9	19.4

159460 2000 KP_{66} 2 8.9 209°.02 8°.2/16.4 18

1 2	9 52.78	−12 15.9	2.161	2.813	17.2	21.0
1 12	9 48.62	−12 25.3	2.053	2.806	15.1	20.8
1 22	9 42.22	−12 8.3	1.963	2.799	12.7	20.7
2 1	9 34.01	−11 21.8	1.895	2.790	10.3	20.5
2 11	9 24.81	−10 5.8	1.853	2.781	8.5	20.3
2 21	9 15.56	− 8 24.2	1.839	2.771	8.4	20.3
3 2	9 7.29	− 6 24.3	1.854	2.760	10.2	20.4
3 12	9 0.86	− 4 16.0	1.895	2.748	12.8	20.5

318065 2004 FQ_{128} 2 8.9 295°.73 3°.9/ 5.8 18

1 2	9 50.71	+19 36.4	1.681	2.494	15.5	20.5
1 12	9 47.86	+20 56.3	1.586	2.476	12.1	20.2
1 22	9 42.18	+22 29.3	1.513	2.458	8.2	19.9
2 1	9 34.15	+24 7.7	1.467	2.440	4.6	19.7
2 11	9 24.75	+25 40.9	1.448	2.423	4.7	19.6
2 21	9 15.27	+26 59.5	1.457	2.405	8.6	19.8
3 2	9 7.09	+27 56.8	1.491	2.388	12.8	20.0
3 12	9 1.35	+28 30.4	1.547	2.371	16.7	20.2

468333 2016 DK_{16} 2 8.9 289°.09 1°.8/ 7.9 18

1 2	9 57.00	+19 11.4	1.787	2.583	15.4	21.1
1 12	9 52.45	+19 15.8	1.688	2.567	12.1	20.8
1 22	9 45.05	+19 26.0	1.610	2.551	8.1	20.5
2 1	9 35.37	+19 37.6	1.559	2.535	3.8	20.2
2 11	9 24.45	+19 45.4	1.535	2.519	2.3	20.1
2 21	9 13.59	+19 44.8	1.541	2.503	6.7	20.3
3 2	9 4.12	+19 33.3	1.573	2.487	11.1	20.6
3 12	8 57.10	+19 10.5	1.629	2.471	15.1	20.8

322849 2001 TZ_{230} 2 8.9 105°.64 0°.6/ 8.4 18

1 2	9 54.17	+13 18.8	2.100	2.877	14.1	21.2
1 12	9 49.42	+14 5.7	2.030	2.899	10.9	21.0
1 22	9 42.51	+15 3.6	1.984	2.921	7.2	20.8
2 1	9 34.03	+16 7.8	1.966	2.942	3.1	20.6
2 11	9 24.85	+17 12.1	1.977	2.962	1.3	20.5
2 21	9 15.97	+18 10.7	2.019	2.982	5.2	20.8
3 2	9 8.31	+18 59.4	2.089	3.002	8.9	21.1
3 12	9 2.58	+19 35.6	2.185	3.021	12.0	21.3

347295 2011 OM_{3} 2 8.9 167°.21 2°.5/10.9 17 R

1 2	9 52.52	+ 6 14.2	2.727	3.466	12.1	21.0
1 12	9 47.72	+ 5 53.3	2.630	3.469	9.8	20.8
1 22	9 41.21	+ 5 42.5	2.557	3.471	7.0	20.7
2 1	9 33.42	+ 5 41.1	2.512	3.473	4.2	20.5
2 11	9 25.01	+ 5 47.6	2.496	3.474	2.5	20.4
2 21	9 16.71	+ 5 59.7	2.511	3.476	4.2	20.5
3 2	9 9.24	+ 6 14.6	2.556	3.477	7.1	20.7
3 12	9 3.22	+ 6 29.6	2.628	3.478	9.8	20.8

212056 2005 EA_{23} 2 8.9 294°.25 0°.0/ 8.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 52.71	+13 6.2	1.583	2.381	17.0	21.3
1 12	9 49.41	+13 22.4	1.488	2.367	13.5	21.0
1 22	9 43.19	+13 52.9	1.413	2.353	9.1	20.7
2 1	9 34.59	+14 34.1	1.363	2.339	4.2	20.4
2 11	9 24.65	+15 19.9	1.339	2.325	1.2	20.1
2 21	9 14.72	+16 3.5	1.343	2.312	6.5	20.5
3 2	9 6.18	+16 39.0	1.373	2.298	11.5	20.7
3 12	9 0.16	+17 2.6	1.426	2.285	15.9	20.9

261031 2005 SH_{138} 2 8.9 127°.62 2°.7/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.70	+ 7 18.0	2.117	2.867	14.8	21.0
1 12	9 51.39	+ 6 53.6	2.032	2.878	11.9	20.9
1 22	9 43.85	+ 6 41.1	1.970	2.889	8.5	20.7
2 1	9 34.66	+ 6 39.8	1.935	2.899	4.9	20.5
2 11	9 24.70	+ 6 47.6	1.929	2.909	2.7	20.3
2 21	9 14.98	+ 7 1.3	1.952	2.918	5.1	20.5
3 2	9 6.45	+ 7 17.5	2.005	2.927	8.6	20.7
3 12	8 59.88	+ 7 32.7	2.084	2.936	11.9	21.0

17097 Ronneuman 2 8.9 252°.41 0°.5/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.75	+11 15.5	2.533	3.302	12.2	19.5
1 12	9 45.88	+11 33.8	2.429	3.292	9.6	19.3
1 22	9 40.15	+12 2.3	2.349	3.281	6.5	19.1
2 1	9 33.01	+12 38.5	2.297	3.271	3.1	18.9
2 11	9 25.13	+13 18.9	2.275	3.261	0.8	18.7
2 21	9 17.28	+13 59.6	2.282	3.250	4.3	18.9
3 2	9 10.25	+14 36.6	2.319	3.239	7.7	19.1
3 12	9 4.73	+15 7.0	2.382	3.228	10.8	19.3

66398 1999 KS_{14} 2 8.9 218°.05 2°.6/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.42	+19 33.7	2.187	2.973	13.3	19.7
1 12	9 51.50	+20 26.8	2.088	2.962	10.4	19.5
1 22	9 44.17	+21 27.9	2.012	2.951	6.9	19.3
2 1	9 34.91	+22 31.2	1.965	2.939	3.6	19.0
2 11	9 24.60	+23 29.9	1.948	2.926	3.2	19.0
2 21	9 14.29	+24 18.1	1.961	2.912	6.5	19.2
3 2	9 5.08	+24 51.9	2.003	2.897	10.2	19.4
3 12	8 57.87	+25 9.8	2.069	2.882	13.4	19.6

104534 2000 GN_{54} 2 8.9 223°.21 3°.9/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.48	+25 38.0	2.454	3.248	11.8	20.2
1 12	9 48.92	+26 24.4	2.366	3.243	9.2	20.0
1 22	9 42.24	+27 12.6	2.303	3.238	6.4	19.9
2 1	9 33.96	+27 57.2	2.267	3.233	4.2	19.7
2 11	9 24.88	+28 32.5	2.262	3.227	4.4	19.7
2 21	9 15.94	+28 54.6	2.285	3.221	6.8	19.8
3 2	9 8.05	+29 1.3	2.337	3.215	9.6	20.0
3 12	9 1.97	+28 52.9	2.412	3.208	12.3	20.2

377608 2005 RB_{34} 2 8.9 239°.25 0°.2/ 8.7 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.10	+11 30.2	2.066	2.833	14.6	23.4
1 12	9 52.29	+12 18.7	1.949	2.811	11.6	23.1
1 22	9 44.91	+13 23.1	1.855	2.788	7.9	22.8
2 1	9 35.36	+14 39.6	1.789	2.764	3.6	22.5
2 11	9 24.48	+16 1.6	1.753	2.739	1.1	22.3
2 21	9 13.38	+17 21.9	1.748	2.712	5.8	22.5
3 2	9 3.24	+18 33.5	1.772	2.684	10.2	22.7
3 12	8 55.14	+19 31.8	1.822	2.654	14.2	22.9

459402 2012 KT_{49} 2 8.9 231°.53 2°.1/ 7.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.38	+17 16.4	1.982	2.779	14.1	21.4
1 12	9 47.69	+18 11.0	1.896	2.777	10.9	21.2
1 22	9 41.64	+19 15.8	1.833	2.776	7.2	21.0
2 1	9 33.77	+20 25.0	1.798	2.774	3.4	20.7
2 11	9 24.95	+21 31.6	1.791	2.772	2.7	20.7
2 21	9 16.26	+22 29.1	1.814	2.771	6.3	20.9
3 2	9 8.74	+23 12.9	1.863	2.769	10.2	21.1
3 12	9 3.26	+23 40.9	1.937	2.767	13.5	21.3

455498 2003 UD_{377} 2 8.9 74°.27 1°.3/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.18	+ 9 27.9	1.555	2.339	17.9	21.8
1 12	9 50.87	+ 9 43.9	1.491	2.360	14.1	21.6
1 22	9 43.80	+10 16.7	1.448	2.381	9.6	21.4
2 1	9 34.70	+11 2.5	1.429	2.402	4.7	21.2
2 11	9 24.75	+11 55.1	1.438	2.423	1.4	21.0
2 21	9 15.23	+12 47.7	1.474	2.444	5.8	21.3
3 2	9 7.34	+13 34.2	1.538	2.465	10.3	21.7
3 12	9 1.95	+14 10.6	1.625	2.485	14.2	21.9

72201 2000 YX_{132} 2 8.9 77°.89 1°.2/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.92	+15 26.0	1.555	2.354	17.2	19.9
1 12	9 51.56	+15 59.4	1.490	2.371	13.3	19.7
1 22	9 44.32	+16 44.6	1.446	2.388	8.8	19.5
2 1	9 34.96	+17 35.7	1.428	2.405	3.9	19.2
2 11	9 24.68	+18 25.4	1.437	2.422	2.0	19.1
2 21	9 14.83	+19 6.9	1.474	2.438	6.6	19.5
3 2	9 6.68	+19 35.8	1.538	2.455	11.1	19.8
3 12	9 1.12	+19 50.4	1.624	2.471	14.9	20.0

196588 2003 QA_{51} 2 8.9 152°.27 0°.1/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.62	+11 30.1	2.256	3.031	13.3	20.3
1 12	9 46.71	+12 5.7	2.168	3.034	10.4	20.2
1 22	9 40.77	+12 53.2	2.103	3.038	7.0	19.9
2 1	9 33.32	+13 49.2	2.065	3.041	3.2	19.7
2 11	9 25.11	+14 48.7	2.058	3.044	0.8	19.5
2 21	9 17.01	+15 46.3	2.080	3.046	4.7	19.8
3 2	9 9.92	+16 37.4	2.130	3.049	8.4	20.0
3 12	9 4.54	+17 18.8	2.207	3.051	11.6	20.3

232943 2005 CD_{31} 2 8.9 80°.86 1°.3/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.90	+16 22.6	2.102	2.892	13.6	20.9
1 12	9 47.80	+16 57.5	2.025	2.902	10.5	20.7
1 22	9 41.52	+17 41.0	1.972	2.912	6.9	20.5
2 1	9 33.65	+18 28.4	1.946	2.922	3.1	20.3
2 11	9 25.03	+19 14.2	1.949	2.933	1.8	20.2
2 21	9 16.64	+19 53.4	1.981	2.943	5.5	20.5
3 2	9 9.42	+20 22.6	2.042	2.953	9.1	20.7
3 12	9 4.11	+20 39.8	2.127	2.963	12.3	20.9

408657 2014 MO_{20} 2 8.9 240°.77 0°.7/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.83	+ 9 49.9	1.753	2.532	16.4	22.3
1 12	9 50.01	+10 19.9	1.653	2.520	13.0	22.1
1 22	9 43.47	+11 7.3	1.574	2.508	9.0	21.8
2 1	9 34.72	+12 9.0	1.520	2.494	4.3	21.5
2 11	9 24.70	+13 18.8	1.495	2.481	1.1	21.2
2 21	9 14.63	+14 29.4	1.498	2.467	5.9	21.5
3 2	9 5.78	+15 33.6	1.529	2.452	10.7	21.7
3 12	8 59.23	+16 26.2	1.584	2.437	14.9	22.0

74553 1999 KR_{1} 2 8.9 141°.71 7°.7/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.82	+39 42.7	2.520	3.303	11.8	18.5
1 12	9 52.47	+40 53.6	2.457	3.308	9.9	18.4
1 22	9 44.68	+41 57.0	2.419	3.312	8.4	18.3
2 1	9 35.07	+42 45.3	2.407	3.316	7.7	18.3
2 11	9 24.65	+43 12.7	2.422	3.320	8.3	18.3
2 21	9 14.55	+43 16.3	2.464	3.324	9.8	18.4
3 2	9 5.84	+42 56.4	2.530	3.327	11.6	18.5
3 12	8 59.32	+42 16.1	2.617	3.330	13.5	18.7

456728 2007 SA_{14} 2 8.9 103°.50 0°.5/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.40	+11 20.7	1.844	2.617	15.9	22.1
1 12	9 52.16	+11 42.6	1.776	2.641	12.4	21.9
1 22	9 44.44	+12 17.3	1.731	2.664	8.3	21.7
2 1	9 34.95	+13 1.0	1.712	2.687	3.9	21.5
2 11	9 24.70	+13 48.0	1.723	2.709	1.0	21.3
2 21	9 14.85	+14 32.7	1.763	2.730	5.3	21.7
3 2	9 6.46	+15 10.6	1.831	2.751	9.4	21.9
3 12	9 0.31	+15 38.7	1.924	2.771	12.9	22.2

209381 2004 EG_{40} 2 8.9 260°.43 1°.2/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.73	+ 8 36.4	2.430	3.194	12.8	20.9
1 12	9 45.16	+ 8 59.0	2.329	3.187	10.1	20.7
1 22	9 39.73	+ 9 34.3	2.251	3.179	7.0	20.5
2 1	9 32.86	+10 20.0	2.200	3.172	3.6	20.3
2 11	9 25.24	+11 12.5	2.179	3.164	1.2	20.1
2 21	9 17.66	+12 7.1	2.188	3.157	4.3	20.3
3 2	9 10.93	+12 59.2	2.226	3.149	7.8	20.5
3 12	9 5.73	+13 45.0	2.290	3.141	10.9	20.7

266076 2006 RQ_{95} 2 8.9 113°.96 2°.1/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.24	+ 7 20.7	1.773	2.546	16.5	20.6
1 12	9 48.50	+ 7 30.3	1.687	2.548	13.2	20.3
1 22	9 42.26	+ 7 56.9	1.623	2.551	9.2	20.1
2 1	9 34.07	+ 8 38.4	1.583	2.553	4.9	19.9
2 11	9 24.92	+ 9 30.1	1.572	2.556	2.1	19.7
2 21	9 15.92	+10 25.9	1.588	2.558	5.5	19.9
3 2	9 8.20	+11 19.8	1.632	2.560	9.8	20.1
3 12	9 2.66	+12 6.6	1.701	2.563	13.6	20.4

354146 2002 CY_{111} 2 8.9 38°.87 4°.9/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 4.21	+25 8.8	1.037	1.867	21.8	19.3
1 12	9 58.93	+25 14.3	0.998	1.894	16.9	19.1
1 22	9 49.50	+25 20.4	0.977	1.922	11.4	18.9
2 1	9 37.23	+25 18.2	0.978	1.951	6.3	18.7
2 11	9 24.19	+25 0.0	1.004	1.981	5.4	18.7
2 21	9 12.46	+24 23.6	1.054	2.012	9.6	19.1
3 2	9 3.69	+23 31.0	1.128	2.044	14.3	19.4
3 12	8 58.68	+22 26.7	1.222	2.076	18.4	19.8

82177 2001 HJ_{12} 2 8.9 193°.77 1°.6/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.54	+16 15.4	1.771	2.560	15.8	20.5
1 12	9 52.80	+16 55.9	1.683	2.559	12.4	20.3
1 22	9 45.25	+17 47.8	1.617	2.556	8.2	20.1
2 1	9 35.49	+18 45.5	1.577	2.554	3.7	19.8
2 11	9 24.57	+19 41.6	1.566	2.550	2.3	19.7
2 21	9 13.77	+20 29.3	1.585	2.545	6.7	19.9
3 2	9 4.39	+21 3.7	1.630	2.540	11.1	20.2
3 12	8 57.45	+21 22.9	1.699	2.534	14.9	20.4

474031 2016 GV_{161} 2 8.9 239°.77 5°.1/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.09	− 2 47.2	2.357	3.066	14.5	21.2
1 12	9 46.32	− 2 56.9	2.247	3.055	12.3	21.0
1 22	9 40.58	− 2 48.2	2.159	3.044	9.6	20.8
2 1	9 33.30	− 2 20.2	2.095	3.032	7.0	20.6
2 11	9 25.16	− 1 34.2	2.059	3.019	5.2	20.5
2 21	9 16.98	− 0 33.6	2.052	3.007	5.9	20.5
3 2	9 9.65	+ 0 36.2	2.073	2.994	8.5	20.6
3 12	9 3.90	+ 1 49.2	2.121	2.980	11.4	20.8

201241 2002 RN_{46} 2 8.9 102°.84 0°.3/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.06	+13 9.5	2.327	3.104	12.9	20.6
1 12	9 46.91	+13 44.5	2.248	3.117	10.0	20.4
1 22	9 40.83	+14 29.4	2.193	3.130	6.6	20.2
2 1	9 33.33	+15 20.5	2.166	3.142	2.9	20.0
2 11	9 25.18	+16 12.9	2.169	3.155	1.0	19.8
2 21	9 17.23	+17 2.0	2.202	3.167	4.7	20.1
3 2	9 10.29	+17 43.6	2.264	3.179	8.1	20.4
3 12	9 5.03	+18 15.4	2.351	3.191	11.1	20.6

134491 1998 XK_{45} 2 8.9 53°.00 0°.0/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.07	+13 41.1	1.436	2.235	18.4	19.0
1 12	9 52.43	+13 48.7	1.383	2.262	14.3	18.8
1 22	9 44.85	+14 9.0	1.350	2.290	9.5	18.6
2 1	9 35.17	+14 37.3	1.341	2.318	4.2	18.3
2 11	9 24.72	+15 7.5	1.360	2.346	1.1	18.2
2 21	9 14.91	+15 33.7	1.405	2.374	6.2	18.6
3 2	9 6.98	+15 51.9	1.477	2.402	10.8	18.9
3 12	9 1.75	+15 59.9	1.572	2.431	14.7	19.2

467990 2012 TX_{94} 2 8.9 191°.24 2°.6/ 6.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.22	+22 46.0	2.804	3.588	10.7	22.3
1 12	9 48.38	+23 20.2	2.713	3.587	8.3	22.1
1 22	9 41.73	+23 57.1	2.648	3.585	5.6	21.9
2 1	9 33.73	+24 32.4	2.612	3.583	3.1	21.8
2 11	9 25.08	+25 1.9	2.606	3.580	3.0	21.8
2 21	9 16.55	+25 22.1	2.631	3.577	5.4	21.9
3 2	9 8.92	+25 31.2	2.685	3.574	8.1	22.1
3 12	9 2.83	+25 28.8	2.765	3.570	10.6	22.2

492626 2014 OE_{286} 2 8.9 227°.73 4°.4/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.13	+23 18.6	1.753	2.558	15.4	21.5
1 12	9 52.68	+24 16.2	1.667	2.551	12.0	21.3
1 22	9 45.30	+25 20.1	1.603	2.543	8.3	21.0
2 1	9 35.56	+26 22.2	1.566	2.536	5.0	20.8
2 11	9 24.57	+27 13.9	1.557	2.527	5.1	20.8
2 21	9 13.72	+27 48.3	1.575	2.519	8.5	21.0
3 2	9 4.37	+28 2.2	1.620	2.510	12.4	21.2
3 12	8 57.59	+27 55.8	1.686	2.501	15.9	21.4

241087 2006 UL_{239} 2 8.9 249°.47 5°.7/ 2.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.37	+33 48.1	2.815	3.602	10.6	21.1
1 12	9 50.37	+34 47.1	2.722	3.586	8.6	20.9
1 22	9 43.25	+35 43.4	2.654	3.568	6.8	20.8
2 1	9 34.49	+36 31.1	2.614	3.551	5.7	20.7
2 11	9 24.88	+37 4.4	2.603	3.533	6.2	20.7
2 21	9 15.33	+37 19.8	2.620	3.514	8.0	20.8
3 2	9 6.76	+37 16.0	2.664	3.496	10.1	20.9
3 12	8 59.96	+36 54.4	2.732	3.477	12.3	21.0

456657 2007 RO_{33} 2 8.9 139°.51 2°.8/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 58.34	+20 22.0	2.069	2.855	13.9	22.5
1 12	9 52.86	+21 12.0	1.995	2.870	10.8	22.3
1 22	9 44.94	+22 8.1	1.945	2.884	7.2	22.1
2 1	9 35.23	+23 3.8	1.924	2.897	3.7	21.9
2 11	9 24.71	+23 52.6	1.932	2.909	3.3	21.9
2 21	9 14.47	+24 29.3	1.970	2.920	6.5	22.1
3 2	9 5.60	+24 51.1	2.036	2.931	10.0	22.3
3 12	8 58.88	+24 57.8	2.127	2.941	13.1	22.5

101801 1999 HS_{8} 2 8.9 340°.49 1°.0/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.53	+11 4.8	1.546	2.344	17.3	19.3
1 12	9 47.66	+11 9.2	1.459	2.337	13.8	19.1
1 22	9 41.98	+11 29.0	1.392	2.330	9.5	18.8
2 1	9 34.07	+12 1.2	1.349	2.324	4.6	18.5
2 11	9 24.99	+12 40.9	1.333	2.319	1.3	18.2
2 21	9 16.02	+13 21.7	1.343	2.314	6.1	18.5
3 2	9 8.48	+13 57.8	1.379	2.310	11.0	18.8
3 12	9 3.39	+14 24.6	1.438	2.306	15.2	19.0

233153 2005 UB_{260} 2 8.9 330°.43 0°.7/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.35	+13 32.6	1.298	2.112	19.2	20.7
1 12	9 49.66	+14 1.5	1.218	2.107	15.1	20.4
1 22	9 43.64	+14 47.9	1.157	2.101	10.2	20.1
2 1	9 34.92	+15 46.5	1.119	2.096	4.5	19.7
2 11	9 24.75	+16 48.9	1.106	2.092	1.7	19.5
2 21	9 14.73	+17 45.9	1.119	2.088	7.5	19.9
3 2	9 6.47	+18 30.2	1.156	2.084	12.9	20.2
3 12	9 1.18	+18 57.6	1.215	2.081	17.6	20.4

256216 2006 VD_{122} 2 8.9 44°.96 7°.7/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.70	− 4 39.1	1.578	2.310	19.8	19.7
1 12	9 47.48	− 5 18.4	1.506	2.323	16.8	19.5
1 22	9 41.66	− 5 31.7	1.451	2.336	13.4	19.3
2 1	9 33.84	− 5 16.5	1.418	2.350	10.1	19.2
2 11	9 25.08	− 4 34.1	1.410	2.364	7.8	19.1
2 21	9 16.58	− 3 29.7	1.427	2.379	8.3	19.1
3 2	9 9.51	− 2 11.3	1.470	2.394	10.9	19.3
3 12	9 4.76	− 0 48.5	1.536	2.410	14.1	19.5

123545 2000 XN_{22} 2 8.9 359°.04 1°.8/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.47	+10 40.9	1.704	2.488	16.5	19.0
1 12	9 49.58	+10 18.7	1.618	2.487	13.2	18.8
1 22	9 43.05	+10 8.5	1.553	2.486	9.2	18.5
2 1	9 34.48	+10 8.7	1.513	2.485	4.7	18.3
2 11	9 24.91	+10 16.4	1.501	2.485	1.9	18.1
2 21	9 15.52	+10 27.6	1.516	2.486	5.7	18.3
3 2	9 7.52	+10 38.5	1.558	2.487	10.1	18.6
3 12	9 1.82	+10 45.6	1.624	2.488	14.0	18.8

68382 2001 QK_{10} 2 8.9 293°.34 0°.3/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.70	+11 38.7	2.227	3.005	13.4	19.4
1 12	9 46.09	+12 2.8	2.133	3.001	10.5	19.2
1 22	9 40.45	+12 38.5	2.062	2.997	7.1	19.0
2 1	9 33.25	+13 22.8	2.018	2.993	3.3	18.7
2 11	9 25.24	+14 11.1	2.003	2.989	0.8	18.5
2 21	9 17.32	+14 58.6	2.017	2.985	4.7	18.8
3 2	9 10.37	+15 40.9	2.060	2.981	8.5	19.0
3 12	9 5.14	+16 14.7	2.128	2.977	11.8	19.2

32755 1981 EP_{15} 2 8.9 72°.94 1°.9/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.42	+ 9 41.9	1.446	2.232	18.9	19.0
1 12	9 52.84	+ 9 33.7	1.381	2.251	15.0	18.8
1 22	9 45.25	+ 9 41.8	1.336	2.269	10.3	18.6
2 1	9 35.44	+10 3.3	1.315	2.288	5.2	18.3
2 11	9 24.69	+10 33.4	1.321	2.306	2.0	18.2
2 21	9 14.41	+11 6.0	1.355	2.325	6.2	18.5
3 2	9 5.94	+11 35.6	1.414	2.343	10.9	18.8
3 12	9 0.19	+11 58.3	1.497	2.361	15.0	19.1

80540 2000 AZ_{81} 2 8.9 308°.50 1°.0/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.74	+10 22.6	1.354	2.155	19.2	19.3
1 12	9 49.82	+10 37.9	1.269	2.149	15.3	19.0
1 22	9 43.69	+11 12.4	1.204	2.143	10.5	18.7
2 1	9 34.95	+12 3.0	1.162	2.137	5.1	18.4
2 11	9 24.77	+13 2.8	1.145	2.131	1.3	18.1
2 21	9 14.69	+14 3.3	1.155	2.126	6.8	18.5
3 2	9 6.26	+14 56.7	1.189	2.120	12.3	18.7
3 12	9 0.68	+15 37.4	1.245	2.115	17.0	19.0

282838 2006 UU_{76} 2 8.9 142°.63 3°.9/12.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.28	− 0 57.7	2.914	3.620	12.1	21.6
1 12	9 45.15	− 1 7.4	2.820	3.629	10.0	21.5
1 22	9 39.50	− 1 3.3	2.749	3.636	7.7	21.3
2 1	9 32.72	− 0 45.4	2.704	3.644	5.4	21.2
2 11	9 25.40	− 0 15.2	2.688	3.651	4.0	21.1
2 21	9 18.18	+ 0 24.6	2.703	3.658	4.6	21.2
3 2	9 11.70	+ 1 10.3	2.746	3.664	6.7	21.3
3 12	9 6.49	+ 1 57.9	2.817	3.671	9.1	21.5

212953 2009 BU_{44} 2 8.9 235°.34 0°.1/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.87	+13 7.9	2.398	3.174	12.6	20.8
1 12	9 46.80	+13 20.7	2.306	3.173	9.8	20.6
1 22	9 40.81	+13 42.5	2.237	3.172	6.6	20.4
2 1	9 33.37	+14 10.4	2.195	3.171	3.0	20.1
2 11	9 25.22	+14 40.7	2.183	3.169	0.8	19.9
2 21	9 17.19	+15 9.7	2.201	3.168	4.5	20.2
3 2	9 10.10	+15 34.0	2.248	3.167	8.0	20.4
3 12	9 4.63	+15 51.2	2.321	3.166	11.1	20.6

401480 2013 CM_{204} 2 8.9 220°.11 2°.4/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.75	+17 5.0	1.782	2.578	15.5	21.7
1 12	9 50.72	+18 5.7	1.691	2.572	12.0	21.4
1 22	9 43.95	+19 18.9	1.623	2.565	8.0	21.2
2 1	9 34.96	+20 38.0	1.581	2.557	3.8	20.9
2 11	9 24.78	+21 54.6	1.569	2.549	3.1	20.8
2 21	9 14.63	+23 0.6	1.584	2.541	7.1	21.0
3 2	9 5.80	+23 50.3	1.627	2.532	11.4	21.3
3 12	8 59.33	+24 21.5	1.693	2.523	15.2	21.5

166877 2002 XG_{61} 2 8.9 31°.18 4°.9/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.78	+26 26.9	2.091	2.898	13.1	19.3
1 12	9 47.98	+27 33.5	2.018	2.902	10.2	19.1
1 22	9 41.81	+28 42.2	1.970	2.906	7.3	18.9
2 1	9 33.88	+29 45.8	1.948	2.910	5.1	18.8
2 11	9 25.10	+30 37.2	1.955	2.915	5.5	18.8
2 21	9 16.54	+31 11.3	1.990	2.920	8.0	19.0
3 2	9 9.23	+31 26.0	2.051	2.925	10.9	19.2
3 12	9 3.98	+31 21.9	2.134	2.930	13.7	19.4

304940 2007 SR_{19} 2 8.9 44°.07 1°.1/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.49	+15 15.1	1.333	2.145	18.8	21.1
1 12	9 50.90	+15 38.2	1.272	2.160	14.6	20.9
1 22	9 44.14	+16 14.7	1.230	2.175	9.7	20.7
2 1	9 34.99	+16 58.4	1.212	2.190	4.3	20.4
2 11	9 24.82	+17 41.5	1.221	2.206	1.9	20.3
2 21	9 15.15	+18 17.0	1.255	2.222	7.1	20.6
3 2	9 7.38	+18 40.1	1.315	2.239	12.0	21.0
3 12	9 2.48	+18 48.7	1.396	2.256	16.1	21.3

114557 2003 BL_{51} 2 8.9 188°.73 1°.6/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.61	+16 1.9	2.214	2.999	13.2	20.2
1 12	9 48.42	+16 59.8	2.124	2.999	10.2	20.0
1 22	9 42.05	+18 7.9	2.058	2.997	6.8	19.8
2 1	9 33.99	+19 21.3	2.020	2.996	3.1	19.5
2 11	9 25.06	+20 33.3	2.012	2.994	2.2	19.5
2 21	9 16.21	+21 37.8	2.034	2.991	5.7	19.7
3 2	9 8.39	+22 30.2	2.084	2.988	9.3	19.9
3 12	9 2.41	+23 8.0	2.160	2.985	12.5	20.1

323480 2004 NS_{10} 2 8.9 247°.50 0°.3/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.05	+12 48.5	2.116	2.891	14.0	21.7
1 12	9 49.67	+12 58.3	2.012	2.879	11.1	21.5
1 22	9 42.98	+13 18.6	1.931	2.866	7.5	21.3
2 1	9 34.45	+13 46.5	1.877	2.852	3.5	21.0
2 11	9 24.93	+14 17.9	1.853	2.839	0.9	20.7
2 21	9 15.42	+14 48.2	1.858	2.825	5.1	21.0
3 2	9 6.96	+15 13.6	1.891	2.810	9.2	21.2
3 12	9 0.42	+15 31.1	1.949	2.796	12.8	21.4

200073 2190 $T\text{-}_2$ 2 8.9 111°.53 3°.2/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.86	+ 3 26.1	1.846	2.591	16.9	21.1
1 12	9 51.75	+ 3 39.3	1.775	2.615	13.6	20.9
1 22	9 44.23	+ 4 11.8	1.725	2.639	9.8	20.7
2 1	9 34.92	+ 5 1.5	1.700	2.662	5.8	20.5
2 11	9 24.84	+ 6 3.8	1.704	2.684	3.2	20.4
2 21	9 15.10	+ 7 12.2	1.738	2.705	5.4	20.6
3 2	9 6.76	+ 8 20.2	1.800	2.725	9.2	20.9
3 12	9 0.60	+ 9 22.1	1.888	2.745	12.7	21.1

65758 1994 PG_3 2 8.9 246°.18 0°.8/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.19	+ 9 9.7	2.184	2.953	13.8	20.1
1 12	9 46.58	+ 9 45.1	2.082	2.944	11.0	19.9
1 22	9 40.86	+10 35.2	2.004	2.935	7.5	19.7
2 1	9 33.48	+11 37.3	1.952	2.925	3.7	19.4
2 11	9 25.19	+12 46.2	1.929	2.915	1.0	19.2
2 21	9 16.91	+13 56.2	1.936	2.905	4.8	19.5
3 2	9 9.57	+15 1.4	1.973	2.895	8.7	19.7
3 12	9 3.99	+15 57.5	2.034	2.884	12.2	19.9

409260 2004 LO_{27} 2 8.9 126°.43 1°.0/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.03	+12 54.5	1.888	2.677	15.0	21.1
1 12	9 47.51	+13 57.4	1.804	2.680	11.7	20.8
1 22	9 41.59	+15 15.0	1.743	2.683	7.7	20.6
2 1	9 33.82	+16 42.1	1.709	2.686	3.4	20.3
2 11	9 25.11	+18 10.7	1.704	2.689	1.7	20.2
2 21	9 16.52	+19 33.1	1.729	2.692	5.9	20.5
3 2	9 9.12	+20 43.0	1.781	2.695	10.0	20.8
3 12	9 3.79	+21 36.7	1.857	2.697	13.6	21.0

45839 2000 RQ_{37} 2 8.9 82°.77 19°.1/21.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.22	−21 13.5	1.234	1.886	27.9	18.7
1 12	9 52.95	−23 46.8	1.174	1.896	25.9	18.5
1 22	9 46.04	−25 42.7	1.125	1.906	23.6	18.4
2 1	9 36.09	−26 48.9	1.090	1.916	21.4	18.2
2 11	9 24.48	−26 57.2	1.071	1.925	19.8	18.2
2 21	9 13.00	−26 6.6	1.070	1.935	19.1	18.2
3 2	9 3.48	−24 25.0	1.087	1.945	19.6	18.2
3 12	8 57.30	−22 8.4	1.121	1.954	21.1	18.3

140842 2001 UH_{199} 2 8.9 168°.29 1°.8/ 7.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.89	+18 57.6	2.778	3.561	10.9	20.6
1 12	9 46.59	+19 42.9	2.690	3.564	8.4	20.4
1 22	9 40.56	+20 33.6	2.628	3.567	5.5	20.2
2 1	9 33.24	+21 25.8	2.595	3.570	2.7	20.0
2 11	9 25.29	+22 14.8	2.592	3.572	2.3	20.0
2 21	9 17.44	+22 56.5	2.620	3.573	4.9	20.2
3 2	9 10.44	+23 28.2	2.678	3.575	7.8	20.4
3 12	9 4.90	+23 48.4	2.761	3.576	10.4	20.5

205999 2002 PY_{25} 2 8.9 258°.12 0°.2/ 9.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.54	+11 57.8	1.831	2.614	15.6	21.2
1 12	9 49.70	+12 20.3	1.729	2.600	12.4	20.9
1 22	9 43.25	+12 57.0	1.649	2.585	8.4	20.6
2 1	9 34.67	+13 44.5	1.595	2.570	3.9	20.3
2 11	9 24.88	+14 37.3	1.569	2.555	1.0	20.1
2 21	9 15.05	+15 29.1	1.571	2.539	5.8	20.4
3 2	9 6.40	+16 14.1	1.601	2.523	10.4	20.6
3 12	8 59.96	+16 48.3	1.655	2.507	14.4	20.8

136628 1994 PL_{21} 2 8.9 146°.93 0°.0/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.15	+13 14.0	2.843	3.611	11.0	20.7
1 12	9 45.90	+13 38.3	2.755	3.618	8.5	20.6
1 22	9 40.03	+14 10.5	2.691	3.625	5.7	20.4
2 1	9 32.98	+14 47.7	2.656	3.631	2.6	20.2
2 11	9 25.37	+15 26.4	2.651	3.637	0.7	20.0
2 21	9 17.88	+16 3.2	2.678	3.643	3.9	20.3
3 2	9 11.19	+16 35.0	2.734	3.649	6.9	20.5
3 12	9 5.87	+16 59.6	2.817	3.654	9.6	20.7

209945 2006 DU_{94} 2 8.9 327°.89 0°.5/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.44	+11 19.5	1.270	2.084	19.5	20.2
1 12	9 47.52	+11 35.3	1.182	2.071	15.5	19.9
1 22	9 42.33	+12 10.5	1.114	2.057	10.6	19.6
2 1	9 34.41	+13 2.1	1.068	2.045	5.0	19.2
2 11	9 24.95	+14 2.7	1.047	2.033	1.2	18.9
2 21	9 15.50	+15 3.5	1.051	2.022	7.2	19.3
3 2	9 7.69	+15 56.0	1.078	2.013	12.9	19.5
3 12	9 2.83	+16 34.1	1.127	2.004	17.9	19.8

237617 2001 RT_{30} 2 8.9 219°.41 1°.2/10.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.85	+ 8 29.7	2.646	3.402	12.0	21.4
1 12	9 45.88	+ 8 48.3	2.543	3.396	9.6	21.2
1 22	9 40.16	+ 9 18.3	2.464	3.389	6.6	21.0
2 1	9 33.10	+ 9 57.8	2.412	3.382	3.4	20.8
2 11	9 25.34	+10 43.6	2.390	3.374	1.3	20.6
2 21	9 17.61	+11 31.5	2.398	3.366	4.0	20.8
3 2	9 10.67	+12 17.7	2.437	3.358	7.3	21.0
3 12	9 5.15	+12 58.6	2.501	3.350	10.2	21.2

463274 2012 GK_{38} 2 8.9 248°.20 6°.2/ 3.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.98	+30 35.9	2.251	3.049	12.6	21.8
1 12	9 51.43	+31 57.9	2.159	3.032	10.1	21.6
1 22	9 44.31	+33 21.0	2.091	3.015	7.7	21.4
2 1	9 35.13	+34 36.9	2.050	2.998	6.3	21.3
2 11	9 24.79	+35 37.5	2.039	2.979	6.9	21.3
2 21	9 14.42	+36 17.1	2.055	2.961	9.2	21.4
3 2	9 5.23	+36 33.0	2.098	2.942	12.0	21.6
3 12	8 58.19	+36 26.5	2.162	2.922	14.6	21.7

139645 2001 QC_{170} 2 8.9 9°.61 0°.0/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.03	+14 44.9	2.108	2.891	13.8	19.5
1 12	9 48.73	+14 44.2	2.020	2.892	10.8	19.3
1 22	9 42.22	+14 51.4	1.956	2.893	7.2	19.1
2 1	9 34.06	+15 3.8	1.918	2.894	3.3	18.8
2 11	9 25.10	+15 17.5	1.909	2.895	0.9	18.7
2 21	9 16.33	+15 28.9	1.929	2.896	5.0	19.0
3 2	9 8.70	+15 35.3	1.978	2.898	8.8	19.2
3 12	9 2.99	+15 34.8	2.052	2.900	12.2	19.4

385519 2004 HO_{78} 2 8.9 148°.65 5°.1/ 4.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.93	+30 43.3	2.501	3.295	11.6	20.7
1 12	9 50.04	+31 32.3	2.425	3.297	9.2	20.5
1 22	9 43.01	+32 19.4	2.374	3.299	6.8	20.4
2 1	9 34.38	+32 58.5	2.350	3.301	5.3	20.3
2 11	9 25.03	+33 24.1	2.356	3.303	5.6	20.3
2 21	9 15.92	+33 33.0	2.389	3.305	7.6	20.4
3 2	9 7.97	+33 24.2	2.450	3.307	10.0	20.6
3 12	9 1.90	+32 59.1	2.534	3.309	12.3	20.8

399689 2004 TT_{87} 2 8.9 209°.33 0°.7/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.86	+10 49.1	1.717	2.498	16.6	21.9
1 12	9 50.77	+11 9.1	1.626	2.495	13.1	21.7
1 22	9 43.96	+11 44.4	1.557	2.491	9.0	21.4
2 1	9 34.98	+12 31.7	1.513	2.487	4.3	21.2
2 11	9 24.85	+13 25.4	1.497	2.483	1.1	20.9
2 21	9 14.81	+14 18.8	1.509	2.478	5.9	21.2
3 2	9 6.13	+15 5.8	1.549	2.473	10.5	21.5
3 12	8 59.79	+15 42.3	1.613	2.467	14.6	21.7

451865 2014 HB_{14} 2 8.9 114°.59 4°.8/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 59.69	+23 21.1	1.489	2.300	17.3	21.5
1 12	9 54.92	+24 20.0	1.423	2.310	13.5	21.3
1 22	9 46.86	+25 24.5	1.379	2.320	9.2	21.0
2 1	9 36.28	+26 25.4	1.360	2.330	5.5	20.9
2 11	9 24.55	+27 12.9	1.368	2.339	5.5	20.9
2 21	9 13.28	+27 40.2	1.402	2.349	9.1	21.1
3 2	9 3.96	+27 45.1	1.462	2.357	13.2	21.4
3 12	8 57.62	+27 29.4	1.544	2.366	16.8	21.6

212118 2005 EG_{190} 2 8.9 265°.19 1°.3/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.34	+ 9 42.0	1.731	2.512	16.5	21.2
1 12	9 49.67	+ 9 51.6	1.632	2.499	13.2	20.9
1 22	9 43.30	+10 16.8	1.554	2.486	9.2	20.6
2 1	9 34.73	+10 55.5	1.500	2.473	4.6	20.3
2 11	9 24.92	+11 42.8	1.474	2.460	1.5	20.1
2 21	9 15.09	+12 32.7	1.476	2.446	5.8	20.4
3 2	9 6.50	+13 19.0	1.506	2.432	10.5	20.6
3 12	9 0.21	+13 57.0	1.559	2.419	14.7	20.8

44069 1998 FG_{61} 2 8.9 143°.05 0°.7/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 57.70	+11 5.7	1.582	2.365	17.7	19.3
1 12	9 53.06	+11 21.5	1.503	2.373	14.0	19.1
1 22	9 45.49	+11 52.8	1.446	2.381	9.5	18.8
2 1	9 35.65	+12 35.8	1.413	2.388	4.5	18.5
2 11	9 24.71	+13 24.3	1.409	2.395	1.1	18.3
2 21	9 14.04	+14 11.7	1.432	2.401	6.1	18.7
3 2	9 4.98	+14 52.0	1.482	2.406	10.9	18.9
3 12	8 58.51	+15 21.6	1.556	2.411	15.0	19.2

215857 2005 EF_{52} 2 8.9 289°.22 0°.2/ 9.1 18

1 2	9 52.21	+11 53.3	1.598	2.393	17.0	20.9
1 12	9 49.07	+12 15.7	1.500	2.377	13.5	20.6
1 22	9 43.06	+12 54.2	1.423	2.362	9.2	20.3
2 1	9 34.67	+13 45.4	1.370	2.347	4.3	20.0
2 11	9 24.94	+14 43.0	1.345	2.331	1.1	19.7
2 21	9 15.15	+15 39.7	1.347	2.316	6.4	20.1
3 2	9 6.69	+16 28.6	1.375	2.301	11.4	20.3
3 12	9 0.71	+17 5.1	1.426	2.286	15.8	20.5

317381 2002 OQ_{28} 2 8.9 109°.22 1°.0/ 9.8 18

1 2	9 54.09	+ 6 29.3	2.085	2.839	14.9	22.1
1 12	9 49.44	+ 7 35.3	2.011	2.863	11.7	21.9
1 22	9 42.62	+ 8 58.9	1.961	2.887	8.0	21.7
2 1	9 34.22	+10 35.5	1.938	2.909	3.9	21.5
2 11	9 25.11	+12 18.1	1.946	2.931	1.1	21.3
2 21	9 16.23	+13 59.0	1.985	2.953	4.8	21.6
3 2	9 8.53	+15 31.4	2.054	2.973	8.6	21.9
3 12	9 2.73	+16 50.4	2.150	2.993	11.9	22.2

262454 2006 UE_{118} 2 8.9 38°.39 10°.1/ 2.5 18

1 2	10 0.76	+37 19.0	1.558	2.368	16.7	20.1
1 12	9 56.08	+38 41.7	1.503	2.374	13.9	20.0
1 22	9 47.77	+39 56.2	1.469	2.381	11.4	19.8
2 1	9 36.71	+40 50.3	1.459	2.387	10.1	19.8
2 11	9 24.46	+41 14.3	1.473	2.395	10.8	19.8
2 21	9 12.86	+41 4.0	1.512	2.402	13.0	20.0
3 2	9 3.52	+40 21.5	1.573	2.410	15.7	20.2
3 12	8 57.50	+39 13.0	1.653	2.418	18.3	20.4

157142 2004 PV_{1} 2 8.9 197°.40 1°.8/ 7.7 18

1 2	9 57.27	+16 56.7	1.866	2.654	15.2	21.6
1 12	9 52.49	+17 36.9	1.776	2.651	11.8	21.4
1 22	9 45.03	+18 27.3	1.708	2.648	7.9	21.1
2 1	9 35.45	+19 22.5	1.668	2.644	3.6	20.9
2 11	9 24.76	+20 15.4	1.657	2.639	2.4	20.8
2 21	9 14.18	+20 59.7	1.674	2.634	6.5	21.0
3 2	9 4.95	+21 31.0	1.720	2.628	10.7	21.3
3 12	8 58.02	+21 47.4	1.789	2.621	14.4	21.5

341785 2007 WU_{42} 2 8.9 104°.21 1°.1/ 7.9 18

1 2	9 51.26	+16 9.6	2.482	3.263	12.0	21.5
1 12	9 46.98	+16 45.2	2.404	3.276	9.3	21.3
1 22	9 40.87	+17 28.0	2.351	3.289	6.1	21.1
2 1	9 33.40	+18 14.2	2.326	3.302	2.7	20.9
2 11	9 25.33	+18 59.1	2.331	3.315	1.5	20.8
2 21	9 17.45	+19 38.6	2.367	3.327	4.8	21.1
3 2	9 10.55	+20 9.4	2.431	3.340	8.0	21.3
3 12	9 5.25	+20 29.9	2.521	3.352	10.8	21.5

102363 1999 TG_{139} 2 8.9 319°.66 1°.0/ 8.4 18

1 2	9 52.41	+15 24.4	1.431	2.243	17.8	19.3
1 12	9 49.53	+15 40.2	1.341	2.229	14.1	19.0
1 22	9 43.52	+16 9.0	1.271	2.216	9.5	18.7
2 1	9 34.92	+16 46.3	1.225	2.203	4.3	18.3
2 11	9 24.90	+17 25.1	1.205	2.191	1.8	18.1
2 21	9 14.92	+17 58.4	1.211	2.179	7.2	18.4
3 2	9 6.52	+18 20.6	1.242	2.168	12.4	18.7
3 12	9 0.89	+18 28.7	1.295	2.158	17.0	18.9

79929 1999 CB_{51} 2 8.9 306°.44 0°.3/ 8.7 17

1 2	9 49.47	+13 29.9	2.066	2.854	13.9	19.5
1 12	9 46.23	+13 57.2	1.963	2.838	10.9	19.3
1 22	9 40.76	+14 36.0	1.883	2.822	7.3	19.1
2 1	9 33.51	+15 23.0	1.830	2.807	3.3	18.8
2 11	9 25.28	+16 13.2	1.805	2.791	1.1	18.6
2 21	9 17.05	+17 1.0	1.809	2.776	5.3	18.8
3 2	9 9.83	+17 41.5	1.841	2.761	9.4	19.1
3 12	9 4.46	+18 11.5	1.897	2.746	13.0	19.2

355882 2008 VP_{66} 2 8.9 132°.68 1°.8/ 7.6 18

1 2	9 57.31	+15 51.2	1.833	2.619	15.5	21.9
1 12	9 52.36	+16 48.2	1.760	2.635	12.0	21.7
1 22	9 44.80	+17 56.4	1.710	2.649	7.9	21.4
2 1	9 35.28	+19 9.6	1.687	2.663	3.6	21.2
2 11	9 24.85	+20 19.9	1.693	2.676	2.4	21.1
2 21	9 14.70	+21 20.3	1.729	2.688	6.4	21.4
3 2	9 5.99	+22 6.2	1.793	2.700	10.4	21.7
3 12	8 59.60	+22 35.7	1.881	2.710	13.9	21.9

258064 2001 OP_{54} 2 8.9 192°.12 2°.6/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 55.89	+20 29.1	2.237	3.024	13.0	21.0
1 12	9 50.97	+21 11.7	2.148	3.023	10.1	20.8
1 22	9 43.76	+22 0.0	2.082	3.021	6.8	20.6
2 1	9 34.81	+22 48.8	2.045	3.018	3.5	20.4
2 11	9 24.96	+23 32.1	2.037	3.015	3.1	20.4
2 21	9 15.25	+24 5.1	2.060	3.011	6.2	20.5
3 2	9 6.67	+24 24.8	2.110	3.006	9.6	20.7
3 12	9 0.04	+24 30.4	2.186	3.001	12.7	20.9

107755 2001 FA_{37} 2 8.9 327°.49 0°.5/ 9.3 18

1 2	9 50.75	+11 33.8	1.432	2.237	18.2	20.3
1 12	9 48.14	+11 47.3	1.344	2.227	14.4	20.0
1 22	9 42.52	+12 17.9	1.276	2.217	9.9	19.7
2 1	9 34.45	+13 2.0	1.231	2.207	4.6	19.4
2 11	9 25.03	+13 53.5	1.212	2.198	1.1	19.1
2 21	9 15.67	+14 44.8	1.219	2.190	6.6	19.4
3 2	9 7.83	+15 29.0	1.252	2.183	11.8	19.7
3 12	9 2.65	+16 1.0	1.306	2.176	16.4	19.9

334091 2001 QK_{143} 2 8.9 70°.79 2°.5/11.3 18

1 2	9 49.69	+ 3 42.3	2.250	2.996	14.2	21.2
1 12	9 45.85	+ 4 8.8	2.177	3.019	11.4	21.1
1 22	9 40.14	+ 4 51.7	2.127	3.042	8.1	20.9
2 1	9 33.08	+ 5 48.7	2.103	3.065	4.7	20.8
2 11	9 25.44	+ 6 55.5	2.108	3.088	2.5	20.6
2 21	9 18.02	+ 8 6.7	2.143	3.111	4.5	20.8
3 2	9 11.63	+ 9 16.7	2.207	3.133	7.7	21.0
3 12	9 6.88	+10 20.7	2.297	3.156	10.7	21.3

79429 1997 SO_{10} 2 8.9 157°.99 2°.1/ 7.3 18

1 2	9 56.67	+19 37.2	2.180	2.966	13.4	20.4
1 12	9 51.52	+20 8.7	2.098	2.972	10.3	20.2
1 22	9 44.07	+20 45.9	2.039	2.978	6.9	20.0
2 1	9 34.92	+21 23.7	2.008	2.983	3.4	19.8
2 11	9 24.95	+21 56.9	2.007	2.987	2.6	19.8
2 21	9 15.21	+22 20.9	2.036	2.992	5.9	20.0
3 2	9 6.69	+22 33.2	2.093	2.995	9.4	20.2
3 12	9 0.16	+22 33.0	2.176	2.998	12.5	20.4

426640 2013 SW_{71} 2 8.9 81°.05 2°.4/ 6.9 18

1 2	9 52.31	+18 50.5	2.046	2.843	13.7	20.9
1 12	9 48.26	+19 43.9	1.975	2.855	10.6	20.7
1 22	9 41.95	+20 44.8	1.927	2.868	7.0	20.5
2 1	9 33.97	+21 47.3	1.906	2.881	3.5	20.3
2 11	9 25.22	+22 44.8	1.915	2.894	3.0	20.3
2 21	9 16.73	+23 31.8	1.952	2.907	6.2	20.6
3 2	9 9.46	+24 4.8	2.017	2.919	9.7	20.8
3 12	9 4.18	+24 22.6	2.107	2.932	12.8	21.0

492685 2014 PX_{44} 2 8.9 172°.69 1°.1/ 9.7 18

1 2	9 55.17	+ 9 26.0	1.980	2.746	15.2	22.6
1 12	9 50.58	+ 9 47.2	1.890	2.750	12.0	22.4
1 22	9 43.60	+10 22.8	1.823	2.753	8.3	22.2
2 1	9 34.77	+11 9.9	1.782	2.755	4.1	21.9
2 11	9 25.00	+12 3.5	1.770	2.756	1.2	21.7
2 21	9 15.37	+12 57.9	1.789	2.757	5.2	22.0
3 2	9 6.93	+13 47.8	1.835	2.757	9.3	22.2
3 12	9 0.53	+14 29.1	1.907	2.756	12.9	22.5

70260 1999 RO_{91} 2 8.9 58°.59 0°.2/ 8.8 18

1 2	9 55.37	+12 31.4	1.408	2.209	18.6	18.7
1 12	9 51.30	+13 1.8	1.353	2.233	14.5	18.5
1 22	9 44.25	+13 47.6	1.317	2.258	9.6	18.3
2 1	9 35.05	+14 43.1	1.306	2.283	4.3	18.1
2 11	9 24.97	+15 40.6	1.322	2.308	1.2	17.9
2 21	9 15.44	+16 32.5	1.364	2.333	6.4	18.3
3 2	9 7.75	+17 13.1	1.433	2.358	11.1	18.6
3 12	9 2.74	+17 39.7	1.525	2.383	15.1	18.9

416274 2003 GA_{52} 2 8.9 60°.68 3°.0/ 6.9 18

1 2	9 55.07	+21 7.0	1.861	2.662	14.7	21.4
1 12	9 50.73	+21 41.5	1.781	2.664	11.4	21.2
1 22	9 43.79	+22 21.7	1.724	2.665	7.7	21.0
2 1	9 34.87	+23 1.6	1.693	2.667	4.0	20.7
2 11	9 25.00	+23 34.8	1.690	2.668	3.5	20.7
2 21	9 15.36	+23 56.0	1.716	2.670	7.0	20.9
3 2	9 7.13	+24 2.6	1.768	2.671	10.8	21.1
3 12	9 1.18	+23 54.3	1.844	2.673	14.2	21.4

390391 2013 WN_{85} 2 8.9 71°.43 0°.2/ 8.7 18

1 2	9 51.89	+13 24.4	2.163	2.943	13.6	21.0
1 12	9 47.67	+13 52.2	2.093	2.963	10.6	20.8
1 22	9 41.41	+14 29.9	2.046	2.983	7.0	20.6
2 1	9 33.68	+15 13.5	2.027	3.003	3.1	20.4
2 11	9 25.33	+15 58.3	2.037	3.023	0.9	20.3
2 21	9 17.25	+16 39.5	2.077	3.043	4.8	20.6
3 2	9 10.31	+17 13.4	2.145	3.062	8.4	20.9
3 12	9 5.18	+17 37.7	2.238	3.082	11.5	21.1

51004 2000 GL_{102} 2 8.9 247°.49 3°.8/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.46	+ 1 27.0	2.331	3.065	14.1	19.2
1 12	9 45.83	+ 1 21.7	2.231	3.060	11.6	19.0
1 22	9 40.27	+ 1 32.6	2.152	3.056	8.7	18.8
2 1	9 33.23	+ 1 59.4	2.099	3.051	5.7	18.6
2 11	9 25.42	+ 2 40.0	2.074	3.046	3.8	18.5
2 21	9 17.65	+ 3 30.6	2.078	3.041	5.1	18.5
3 2	9 10.76	+ 4 26.4	2.111	3.037	8.0	18.7
3 12	9 5.46	+ 5 22.1	2.170	3.032	11.1	18.9

229655 2006 HO_{32} 2 8.9 96°.29 0°.7/ 9.5 18

1 2	9 51.72	+10 48.3	2.111	2.885	14.1	20.8
1 12	9 47.69	+11 6.2	2.028	2.893	11.1	20.6
1 22	9 41.54	+11 36.1	1.968	2.900	7.5	20.4
2 1	9 33.79	+12 15.1	1.934	2.908	3.6	20.2
2 11	9 25.29	+12 58.7	1.929	2.915	0.9	20.0
2 21	9 16.97	+13 42.1	1.954	2.923	4.8	20.3
3 2	9 9.76	+14 20.9	2.007	2.930	8.6	20.5
3 12	9 4.38	+14 51.9	2.086	2.937	11.9	20.8

101035 1998 QL_{83} 2 8.9 206°.74 3°.7/11.6 18

1 2	9 53.50	+ 3 14.9	2.019	2.763	15.6	20.3
1 12	9 49.29	+ 3 5.4	1.921	2.759	12.8	20.1
1 22	9 42.76	+ 3 12.9	1.844	2.755	9.5	19.9
2 1	9 34.42	+ 3 36.9	1.792	2.750	6.0	19.6
2 11	9 25.12	+ 4 15.1	1.769	2.745	3.7	19.5
2 21	9 15.85	+ 5 3.0	1.775	2.740	5.6	19.6
3 2	9 7.67	+ 5 55.3	1.808	2.734	9.1	19.8
3 12	9 1.42	+ 6 46.3	1.867	2.728	12.6	20.0

193822 2001 QD_{20} 2 8.9 150°.08 0°.0/ 8.9 18

1 2	9 57.27	+11 35.1	2.032	2.800	14.8	21.6
1 12	9 52.08	+12 11.6	1.950	2.813	11.6	21.4
1 22	9 44.52	+13 1.1	1.891	2.824	7.8	21.2
2 1	9 35.17	+13 59.3	1.860	2.835	3.5	20.9
2 11	9 24.96	+15 0.4	1.858	2.844	0.9	20.8
2 21	9 14.96	+15 58.4	1.887	2.853	5.2	21.1
3 2	9 6.21	+16 48.3	1.945	2.860	9.2	21.3
3 12	8 59.52	+17 27.0	2.028	2.867	12.7	21.6

412139 2013 GB_{53} 2 8.9 159°.29 4°.6/ 5.3 18

1 2	9 57.63	+25 25.4	2.044	2.840	13.7	21.7
1 12	9 52.58	+26 29.0	1.968	2.846	10.7	21.5
1 22	9 44.96	+27 35.5	1.916	2.852	7.5	21.3
2 1	9 35.40	+28 37.4	1.892	2.857	5.0	21.2
2 11	9 24.90	+29 27.1	1.897	2.861	5.2	21.2
2 21	9 14.64	+29 59.4	1.931	2.865	7.9	21.4
3 2	9 5.77	+30 12.2	1.992	2.868	11.1	21.6
3 12	8 59.14	+30 6.2	2.075	2.871	14.0	21.8

129791 1999 JC_{109} 2 8.9 313°.97 2°.8/ 7.3 18

1 2	9 52.65	+18 21.1	1.349	2.171	18.2	20.1
1 12	9 50.04	+18 58.4	1.261	2.155	14.3	19.8
1 22	9 44.07	+19 48.4	1.192	2.139	9.6	19.5
2 1	9 35.28	+20 44.4	1.147	2.124	4.7	19.1
2 11	9 24.89	+21 37.1	1.127	2.110	3.6	19.0
2 21	9 14.52	+22 17.6	1.133	2.095	8.5	19.3
3 2	9 5.84	+22 40.1	1.163	2.082	13.7	19.5
3 12	9 0.16	+22 42.7	1.214	2.069	18.3	19.7

44028 1998 BD_{1} 2 8.9 303°.10 0°.8/ 9.3 18 R

1 2	9 56.26	+13 40.0	1.789	2.573	15.9	17.7
1 12	9 51.84	+13 18.2	1.690	2.561	12.6	17.4
1 22	9 44.69	+13 4.9	1.613	2.548	8.6	17.2
2 1	9 35.38	+12 58.2	1.561	2.536	4.1	16.9
2 11	9 24.89	+12 54.7	1.537	2.523	1.1	16.6
2 21	9 14.47	+12 51.3	1.543	2.511	5.7	16.9
3 2	9 5.37	+12 45.1	1.575	2.500	10.3	17.1
3 12	8 58.59	+12 33.9	1.631	2.488	14.3	17.4

226855 2004 TR_{11} 2 8.9 35°.82 2°.4/10.7 18

1 2	9 50.37	+ 6 38.9	1.723	2.499	16.7	20.7
1 12	9 47.09	+ 6 44.4	1.645	2.507	13.4	20.5
1 22	9 41.37	+ 7 7.3	1.589	2.516	9.5	20.2
2 1	9 33.79	+ 7 45.8	1.557	2.525	5.2	20.0
2 11	9 25.33	+ 8 35.3	1.552	2.535	2.4	19.8
2 21	9 17.10	+ 9 29.8	1.575	2.545	5.4	20.1
3 2	9 10.18	+10 23.2	1.625	2.556	9.6	20.3
3 12	9 5.40	+11 10.0	1.699	2.567	13.3	20.6

459644 2013 JC_{37} 2 8.9 248°.03 0°.4/ 9.2 16

1 2	9 54.85	+11 53.7	1.945	2.722	15.1	22.0
1 12	9 50.60	+12 8.6	1.840	2.707	12.0	21.7
1 22	9 43.82	+12 36.1	1.757	2.691	8.2	21.4
2 1	9 34.99	+13 13.4	1.701	2.676	3.8	21.1
2 11	9 25.00	+13 55.7	1.673	2.659	0.9	20.9
2 21	9 14.96	+14 37.6	1.674	2.642	5.5	21.2
3 2	9 6.04	+15 14.1	1.704	2.625	9.9	21.4
3 12	8 59.21	+15 41.6	1.758	2.607	13.8	21.6

61020 2000 KC_{47} 2 8.9 122°.89 0°.7/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.21	+ 9 14.3	2.424	3.189	12.7	19.0
1 12	9 45.52	+ 9 50.2	2.335	3.195	10.0	18.8
1 22	9 39.99	+10 38.8	2.270	3.200	6.8	18.6
2 1	9 33.09	+11 37.1	2.232	3.205	3.3	18.4
2 11	9 25.52	+12 40.6	2.225	3.210	0.9	18.2
2 21	9 18.05	+13 44.3	2.247	3.215	4.3	18.5
3 2	9 11.48	+14 43.3	2.299	3.220	7.7	18.7
3 12	9 6.46	+15 34.0	2.377	3.225	10.7	18.9

205878 2002 EP_{127} 2 8.9 284°.26 1°.2/ 8.2 18

1 2	9 54.11	+15 20.6	1.567	2.370	17.0	21.2
1 12	9 50.69	+15 46.7	1.471	2.354	13.4	20.9
1 22	9 44.24	+16 26.1	1.395	2.338	9.0	20.6
2 1	9 35.29	+17 13.9	1.345	2.322	4.1	20.2
2 11	9 24.92	+18 3.1	1.321	2.306	1.9	20.0
2 21	9 14.50	+18 46.3	1.324	2.290	7.0	20.3
3 2	9 5.51	+19 17.8	1.354	2.274	12.0	20.6
3 12	8 59.14	+19 34.5	1.405	2.258	16.4	20.8

124666 2001 SX_{93} 2 8.9 116°.36 0°.7/ 8.5 18

1 2	9 55.63	+15 23.3	1.917	2.703	14.9	20.5
1 12	9 50.96	+15 40.3	1.838	2.711	11.6	20.3
1 22	9 43.84	+16 6.5	1.781	2.719	7.7	20.1
2 1	9 34.88	+16 37.7	1.751	2.727	3.4	19.8
2 11	9 25.07	+17 8.9	1.750	2.735	1.3	19.7
2 21	9 15.52	+17 35.2	1.778	2.743	5.6	20.0
3 2	9 7.30	+17 53.2	1.833	2.750	9.6	20.2
3 12	9 1.24	+18 0.9	1.913	2.757	13.1	20.5

166879 2002 XA_{82} 2 8.9 89°.32 7°.0/16.1 18

1 2	9 50.48	−10 0.2	2.494	3.154	14.9	20.3
1 12	9 46.35	−10 30.9	2.415	3.174	13.0	20.2
1 22	9 40.46	−10 41.4	2.355	3.194	10.8	20.1
2 1	9 33.27	−10 29.9	2.319	3.213	8.7	20.0
2 11	9 25.50	− 9 57.1	2.309	3.233	7.3	19.9
2 21	9 17.90	− 9 5.9	2.326	3.252	7.2	19.9
3 2	9 11.22	− 8 1.1	2.371	3.271	8.6	20.0
3 12	9 6.07	− 6 48.8	2.442	3.290	10.5	20.2

345985 2007 TM_{152} 2 8.9 135°.45 3°.5/12.3 18

1 2	9 49.85	+ 1 15.7	2.547	3.273	13.2	21.3
1 12	9 45.88	+ 1 16.5	2.456	3.280	10.8	21.1
1 22	9 40.16	+ 1 32.5	2.386	3.288	8.1	20.9
2 1	9 33.16	+ 2 3.0	2.343	3.294	5.3	20.8
2 11	9 25.53	+ 2 45.7	2.329	3.301	3.5	20.7
2 21	9 18.00	+ 3 36.9	2.345	3.308	4.6	20.8
3 2	9 11.33	+ 4 32.1	2.390	3.314	7.3	20.9
3 12	9 6.11	+ 5 26.6	2.462	3.320	10.1	21.1

493326 2014 UC_{209} 2 8.9 160°.30 4°.8/ 4.5 18

1 2	9 55.55	+25 45.6	2.223	3.019	12.8	21.4
1 12	9 50.84	+27 8.0	2.148	3.025	10.0	21.2
1 22	9 43.76	+28 33.6	2.097	3.031	7.1	21.0
2 1	9 34.87	+29 54.8	2.075	3.036	5.0	20.9
2 11	9 25.08	+31 3.9	2.082	3.040	5.4	20.9
2 21	9 15.45	+31 55.2	2.119	3.044	7.9	21.1
3 2	9 7.02	+32 26.2	2.183	3.047	10.8	21.3
3 12	9 0.62	+32 37.1	2.270	3.050	13.4	21.5

78721 2002 TU_{219} 2 8.9 68°.29 0°.4/ 8.7 18

1 2	9 53.95	+15 30.9	2.149	2.931	13.6	19.5
1 12	9 49.38	+15 35.7	2.068	2.939	10.6	19.3
1 22	9 42.64	+15 47.9	2.010	2.947	7.1	19.1
2 1	9 34.30	+16 4.3	1.979	2.955	3.2	18.9
2 11	9 25.25	+16 20.9	1.978	2.963	1.0	18.7
2 21	9 16.43	+16 34.2	2.006	2.972	5.0	19.0
3 2	9 8.78	+16 41.5	2.062	2.980	8.7	19.2
3 12	9 3.03	+16 41.2	2.144	2.988	11.9	19.5

454216 2013 HH_{107} 2 8.9 37°.55 2°.9/ 7.4 18

1 2	9 54.26	+18 24.0	1.237	2.062	19.3	21.1
1 12	9 51.05	+19 4.9	1.180	2.076	14.9	20.9
1 22	9 44.44	+19 57.0	1.143	2.090	9.9	20.6
2 1	9 35.27	+20 52.3	1.129	2.106	4.7	20.4
2 11	9 25.01	+21 40.9	1.140	2.122	3.6	20.4
2 21	9 15.31	+22 15.3	1.177	2.139	8.2	20.7
3 2	9 7.67	+22 31.4	1.238	2.157	13.0	21.0
3 12	9 3.09	+22 29.0	1.319	2.175	17.2	21.3

33968 2000 NF_{13} 2 8.9 199°.39 2°.1/10.4 18

1 2	9 55.31	+ 7 23.2	1.900	2.661	15.9	19.7
1 12	9 50.87	+ 7 30.1	1.804	2.659	12.8	19.5
1 22	9 43.93	+ 7 52.9	1.731	2.655	9.0	19.2
2 1	9 35.02	+ 8 29.6	1.683	2.651	4.9	19.0
2 11	9 25.05	+ 9 16.3	1.663	2.647	2.1	18.8
2 21	9 15.14	+10 7.4	1.673	2.641	5.4	19.0
3 2	9 6.43	+10 57.4	1.711	2.636	9.6	19.2
3 12	8 59.84	+11 41.2	1.773	2.629	13.4	19.4

70418 Kholopov 2 8.9 336°.31 3°.1/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 52.14	+18 51.8	1.387	2.208	17.8	18.7
1 12	9 49.43	+19 35.1	1.306	2.200	13.9	18.4
1 22	9 43.50	+20 30.1	1.246	2.193	9.3	18.1
2 1	9 34.97	+21 29.5	1.210	2.186	4.6	17.8
2 11	9 25.06	+22 24.0	1.199	2.180	3.8	17.7
2 21	9 15.30	+23 5.2	1.214	2.175	8.3	18.0
3 2	9 7.26	+23 27.9	1.254	2.170	13.2	18.2
3 12	9 2.08	+23 30.9	1.314	2.166	17.5	18.5

156055 2001 SN_{52} 2 8.9 105°.27 3°.9/ 6.5 18

1 2	10 0.99	+22 18.0	1.623	2.423	16.6	20.1
1 12	9 55.53	+23 8.4	1.561	2.443	12.8	19.9
1 22	9 47.06	+24 3.9	1.522	2.462	8.6	19.7
2 1	9 36.36	+24 56.5	1.509	2.480	4.8	19.5
2 11	9 24.75	+25 37.8	1.524	2.498	4.5	19.5
2 21	9 13.66	+26 2.2	1.567	2.516	8.0	19.7
3 2	9 4.42	+26 7.7	1.636	2.533	11.9	20.0
3 12	8 57.93	+25 55.6	1.728	2.549	15.3	20.3

433794 2015 BR_{89} 2 8.9 336°.13 0°.5/ 9.3 17

1 2	9 54.50	+13 28.0	2.103	2.880	14.1	20.7
1 12	9 49.93	+13 18.1	2.012	2.879	11.1	20.5
1 22	9 43.10	+13 16.5	1.943	2.877	7.5	20.3
2 1	9 34.57	+13 20.9	1.901	2.876	3.5	20.0
2 11	9 25.20	+13 28.2	1.889	2.875	0.9	19.8
2 21	9 15.99	+13 34.9	1.906	2.874	4.9	20.1
3 2	9 7.92	+13 38.5	1.951	2.873	8.8	20.3
3 12	9 1.79	+13 36.7	2.022	2.872	12.2	20.6

58766 1998 FS_{34} 2 8.9 342°.16 0°.7/ 9.5 18

1 2	9 50.12	+11 53.1	2.006	2.790	14.4	19.5
1 12	9 46.70	+11 57.0	1.913	2.784	11.4	19.2
1 22	9 41.05	+12 12.1	1.843	2.778	7.8	19.0
2 1	9 33.68	+12 35.8	1.798	2.773	3.7	18.7
2 11	9 25.43	+13 4.2	1.782	2.768	1.0	18.5
2 21	9 17.28	+13 33.1	1.795	2.764	5.0	18.8
3 2	9 10.23	+13 58.2	1.835	2.760	9.0	19.0
3 12	9 5.07	+14 16.4	1.899	2.757	12.6	19.2

384131 2008 YJ_{75} 2 8.9 282°.00 4°.8/ 3.9 18

1 2	9 50.71	+25 21.0	2.307	3.110	12.2	20.4
1 12	9 47.23	+26 52.5	2.211	3.093	9.5	20.2
1 22	9 41.50	+28 29.7	2.140	3.075	6.8	20.0
2 1	9 33.94	+30 5.4	2.097	3.058	4.9	19.9
2 11	9 25.34	+31 31.4	2.084	3.040	5.5	19.9
2 21	9 16.66	+32 41.1	2.099	3.022	8.1	20.0
3 2	9 8.94	+33 30.3	2.142	3.004	11.0	20.1
3 12	9 3.06	+33 58.2	2.207	2.987	13.8	20.3

469406 2001 UF_{210} 2 8.9 104°.03 6°.4/ 4.6 18

1 2	10 1.42	+31 26.5	1.964	2.759	14.3	22.1
1 12	9 55.55	+32 22.0	1.904	2.776	11.4	21.9
1 22	9 46.91	+33 14.2	1.867	2.792	8.5	21.8
2 1	9 36.26	+33 54.7	1.857	2.807	6.5	21.7
2 11	9 24.80	+34 16.5	1.875	2.822	6.9	21.7
2 21	9 13.86	+34 16.3	1.921	2.837	9.1	21.9
3 2	9 4.63	+33 54.2	1.993	2.852	11.9	22.1
3 12	8 57.95	+33 13.6	2.088	2.866	14.5	22.3

173861 2001 TF_{194} 2 8.9 98°.42 2°.1/10.7 18

1 2	9 51.46	+ 7 9.0	2.461	3.213	12.9	20.3
1 12	9 47.16	+ 7 1.9	2.374	3.222	10.4	20.1
1 22	9 41.04	+ 7 6.1	2.311	3.231	7.3	19.9
2 1	9 33.57	+ 7 20.5	2.274	3.240	4.1	19.7
2 11	9 25.48	+ 7 42.5	2.267	3.248	2.1	19.6
2 21	9 17.55	+ 8 9.0	2.290	3.257	4.3	19.7
3 2	9 10.54	+ 8 36.4	2.341	3.266	7.4	20.0
3 12	9 5.10	+ 9 1.5	2.420	3.274	10.3	20.2

65148 2002 CE_{117} 2 8.9 98°.71 1°.1/ 9.8 18

1 2	9 55.08	+ 7 39.4	1.671	2.444	17.3	19.0
1 12	9 50.75	+ 8 26.8	1.603	2.466	13.6	18.8
1 22	9 43.80	+ 9 33.4	1.556	2.487	9.3	18.6
2 1	9 34.91	+10 54.7	1.535	2.508	4.5	18.3
2 11	9 25.14	+12 22.9	1.542	2.528	1.2	18.1
2 21	9 15.72	+13 49.6	1.578	2.548	5.6	18.5
3 2	9 7.77	+15 7.4	1.643	2.567	10.0	18.8
3 12	9 2.17	+16 11.3	1.731	2.585	13.8	19.0

378970 2008 UN_{237} 2 8.9 99°.32 3°.6/ 6.2 18

1 2	9 55.21	+24 13.0	2.192	2.988	13.0	21.1
1 12	9 50.42	+24 52.8	2.119	2.998	10.1	21.0
1 22	9 43.37	+25 34.7	2.070	3.007	6.9	20.8
2 1	9 34.66	+26 13.2	2.048	3.017	4.1	20.6
2 11	9 25.22	+26 42.6	2.055	3.026	4.1	20.6
2 21	9 16.05	+26 58.8	2.092	3.035	6.7	20.8
3 2	9 8.15	+27 0.2	2.156	3.044	9.8	21.0
3 12	9 2.24	+26 47.2	2.244	3.053	12.6	21.2

135257 2001 SE_{47} 2 8.9 117°.05 4°.9/ 4.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.89	+29 24.2	2.461	3.256	11.7	19.7
1 12	9 50.04	+30 16.0	2.390	3.264	9.3	19.6
1 22	9 43.05	+31 6.6	2.343	3.271	6.8	19.4
2 1	9 34.50	+31 50.0	2.324	3.279	5.0	19.3
2 11	9 25.26	+32 20.7	2.334	3.287	5.4	19.4
2 21	9 16.26	+32 35.2	2.373	3.294	7.4	19.5
3 2	9 8.44	+32 32.3	2.439	3.301	9.9	19.7
3 12	9 2.49	+32 13.4	2.529	3.308	12.2	19.8

4437 Yaroshenko 2 8.9 299°.34 3°.4/10.9 18

1 2	9 51.56	+ 5 46.0	1.554	2.333	18.2	16.5
1 12	9 48.63	+ 5 35.4	1.456	2.318	14.8	16.3
1 22	9 42.84	+ 5 44.0	1.377	2.302	10.8	16.0
2 1	9 34.69	+ 6 11.6	1.321	2.288	6.3	15.7
2 11	9 25.17	+ 6 55.1	1.291	2.273	3.4	15.5
2 21	9 15.57	+ 7 48.5	1.288	2.258	6.4	15.6
3 2	9 7.29	+ 8 44.8	1.311	2.244	11.2	15.8
3 12	9 1.46	+ 9 36.9	1.356	2.230	15.6	16.1

135131 2001 QB_{174} 2 8.9 230°.08 3°.8/12.3 17

1 2	9 50.17	+ 1 3.6	2.613	3.335	13.0	20.5
1 12	9 46.21	+ 0 52.8	2.506	3.327	10.7	20.3
1 22	9 40.47	+ 0 56.3	2.421	3.319	8.1	20.1
2 1	9 33.37	+ 1 14.0	2.362	3.310	5.5	19.9
2 11	9 25.54	+ 1 44.5	2.332	3.302	3.8	19.8
2 21	9 17.72	+ 2 24.8	2.332	3.292	4.9	19.8
3 2	9 10.67	+ 3 10.8	2.361	3.283	7.5	20.0
3 12	9 5.05	+ 3 58.2	2.417	3.273	10.3	20.1

229154 2004 SG_{49} 2 8.9 112°.86 0°.8/ 8.2 18

1 2	9 51.16	+12 25.7	2.111	2.891	13.9	20.4
1 12	9 47.35	+13 32.3	2.030	2.901	10.8	20.2
1 22	9 41.39	+14 52.5	1.974	2.911	7.1	20.0
2 1	9 33.81	+16 20.9	1.945	2.921	3.1	19.8
2 11	9 25.44	+17 50.5	1.946	2.931	1.4	19.7
2 21	9 17.21	+19 14.3	1.977	2.940	5.3	20.0
3 2	9 10.06	+20 26.6	2.037	2.949	9.1	20.2
3 12	9 4.75	+21 24.0	2.123	2.958	12.3	20.4

468192 2015 AV_{241} 2 8.9 100°.07 2°.7/ 6.4 18

1 2	9 51.28	+19 43.5	2.272	3.067	12.6	20.9
1 12	9 47.33	+20 49.2	2.197	3.077	9.7	20.7
1 22	9 41.32	+22 1.6	2.146	3.087	6.4	20.5
2 1	9 33.76	+23 15.0	2.124	3.097	3.4	20.3
2 11	9 25.46	+24 22.7	2.131	3.107	3.3	20.3
2 21	9 17.33	+25 19.4	2.168	3.117	6.1	20.5
3 2	9 10.27	+26 1.5	2.233	3.126	9.3	20.7
3 12	9 5.00	+26 27.7	2.322	3.136	12.1	20.9

24907 Alfredhaar 2 8.9 16°.38 0°.5/ 8.7 18

1 2	9 55.31	+15 10.6	1.483	2.287	17.7	19.1
1 12	9 51.49	+15 15.3	1.406	2.288	13.9	18.8
1 22	9 44.63	+15 31.4	1.348	2.290	9.3	18.6
2 1	9 35.41	+15 54.6	1.315	2.292	4.2	18.3
2 11	9 25.03	+16 18.9	1.309	2.295	1.4	18.1
2 21	9 14.94	+16 38.6	1.330	2.298	6.6	18.4
3 2	9 6.52	+16 49.7	1.376	2.301	11.5	18.7
3 12	9 0.80	+16 49.9	1.445	2.305	15.7	19.0

401630 2013 GP_{73} 2 8.9 259°.00 3°.0/ 6.8 18

1 2	9 54.50	+19 3.6	1.759	2.561	15.4	21.3
1 12	9 50.71	+19 57.1	1.665	2.548	12.0	21.1
1 22	9 44.11	+21 1.2	1.592	2.535	8.1	20.8
2 1	9 35.22	+22 9.3	1.546	2.521	4.1	20.5
2 11	9 25.05	+23 13.0	1.529	2.508	3.6	20.5
2 21	9 14.88	+24 4.9	1.539	2.494	7.5	20.7
3 2	9 6.03	+24 39.8	1.576	2.480	11.8	20.9
3 12	8 59.59	+24 56.1	1.635	2.465	15.6	21.1

469120 2015 DQ_{180} 2 8.9 270°.73 4°.3/12.7 17

1 2	9 49.07	− 0 8.0	2.269	2.998	14.5	20.9
1 12	9 45.61	− 0 13.5	2.170	2.994	12.1	20.7
1 22	9 40.20	− 0 1.4	2.092	2.990	9.2	20.5
2 1	9 33.29	+ 0 28.4	2.039	2.986	6.3	20.3
2 11	9 25.58	+ 1 13.9	2.013	2.982	4.4	20.2
2 21	9 17.92	+ 2 11.1	2.017	2.978	5.4	20.2
3 2	9 11.15	+ 3 14.6	2.049	2.974	8.2	20.4
3 12	9 6.00	+ 4 18.9	2.107	2.970	11.3	20.6

28779 Acthieke 2 8.9 122°.27 1°.7/ 7.8 18

1 2	9 57.92	+16 25.0	1.698	2.490	16.3	19.2
1 12	9 53.06	+17 8.1	1.627	2.504	12.6	19.0
1 22	9 45.42	+18 1.9	1.577	2.518	8.4	18.8
2 1	9 35.68	+19 0.4	1.555	2.531	3.8	18.5
2 11	9 24.99	+19 55.8	1.560	2.544	2.4	18.5
2 21	9 14.64	+20 41.7	1.595	2.556	6.6	18.8
3 2	9 5.86	+21 13.6	1.657	2.567	10.9	19.0
3 12	8 59.57	+21 30.2	1.742	2.578	14.5	19.3

300035 2006 UN_{123} 2 8.9 258°.39 0°.1/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.03	+12 34.9	2.519	3.292	12.1	21.9
1 12	9 46.21	+12 55.9	2.417	3.282	9.5	21.7
1 22	9 40.52	+13 26.5	2.339	3.273	6.4	21.5
2 1	9 33.42	+14 3.9	2.289	3.264	2.9	21.3
2 11	9 25.56	+14 44.3	2.268	3.254	0.7	21.1
2 21	9 17.74	+15 23.6	2.278	3.245	4.4	21.3
3 2	9 10.76	+15 58.2	2.316	3.235	7.8	21.5
3 12	9 5.30	+16 25.3	2.381	3.225	10.9	21.7

167024 2003 QU_{35} 2 8.9 123°.91 0°.1/ 8.9 18

1 2	9 56.04	+12 16.7	1.902	2.679	15.3	21.0
1 12	9 51.27	+12 51.0	1.827	2.695	12.0	20.8
1 22	9 44.06	+13 38.0	1.774	2.710	8.0	20.6
2 1	9 35.03	+14 33.4	1.748	2.724	3.6	20.3
2 11	9 25.17	+15 31.0	1.752	2.738	1.0	20.2
2 21	9 15.58	+16 24.8	1.785	2.751	5.4	20.5
3 2	9 7.32	+17 9.9	1.846	2.764	9.5	20.8
3 12	9 1.22	+17 43.2	1.932	2.776	13.0	21.0

285572 2000 PU_{18} 2 8.9 210°.30 0°.1/ 8.8 17

1 2	9 53.47	+14 55.9	3.110	3.872	10.3	21.7
1 12	9 48.42	+15 1.4	3.005	3.865	8.0	21.5
1 22	9 41.77	+15 12.4	2.925	3.857	5.4	21.3
2 1	9 33.91	+15 26.6	2.874	3.849	2.4	21.1
2 11	9 25.45	+15 41.3	2.854	3.840	0.7	20.9
2 21	9 17.04	+15 54.1	2.866	3.831	3.8	21.2
3 2	9 9.37	+16 2.8	2.909	3.821	6.7	21.3
3 12	9 3.00	+16 5.9	2.979	3.811	9.3	21.5

55601 2002 RC_{110} 2 8.9 143°.48 0°.0/ 8.9 18 R

1 2	9 53.97	+14 8.7	2.368	3.141	12.8	19.2
1 12	9 49.24	+14 12.2	2.279	3.145	10.0	19.0
1 22	9 42.50	+14 23.4	2.215	3.149	6.7	18.8
2 1	9 34.29	+14 39.5	2.177	3.153	3.1	18.6
2 11	9 25.36	+14 57.2	2.170	3.156	0.8	18.4
2 21	9 16.61	+15 12.9	2.193	3.160	4.5	18.7
3 2	9 8.88	+15 24.1	2.245	3.163	8.1	18.9
3 12	9 2.88	+15 28.8	2.323	3.166	11.1	19.1

209368 2004 EG_{11} 2 8.9 218°.83 3°.3/ 5.9 17

1 2	9 53.80	+24 54.4	2.704	3.493	11.0	20.4
1 12	9 49.05	+25 31.8	2.612	3.486	8.6	20.2
1 22	9 42.37	+26 10.9	2.545	3.480	5.9	20.0
2 1	9 34.23	+26 47.0	2.506	3.473	3.7	19.8
2 11	9 25.38	+27 15.4	2.497	3.466	3.7	19.8
2 21	9 16.63	+27 32.7	2.519	3.458	6.0	20.0
3 2	9 8.81	+27 36.9	2.569	3.450	8.7	20.1
3 12	9 2.62	+27 28.0	2.643	3.442	11.2	20.3

334105 2001 QJ_{227} 2 8.9 69°.48 0°.0/ 8.8 18

1 2	9 57.47	+15 6.1	2.237	3.009	13.5	20.9
1 12	9 51.78	+15 0.5	2.173	3.038	10.5	20.8
1 22	9 44.04	+15 1.5	2.132	3.066	6.9	20.6
2 1	9 34.90	+15 6.3	2.119	3.094	3.1	20.4
2 11	9 25.25	+15 11.7	2.136	3.122	0.8	20.3
2 21	9 16.00	+15 14.9	2.184	3.150	4.6	20.6
3 2	9 8.01	+15 13.7	2.261	3.178	8.1	20.8
3 12	9 1.93	+15 7.0	2.364	3.205	11.0	21.1

174802 2003 WV_{168} 2 8.9 253°.60 1°.0/ 9.7 18

1 2	9 52.11	+ 9 4.5	1.766	2.545	16.3	20.3
1 12	9 48.69	+ 9 35.5	1.669	2.536	12.9	20.1
1 22	9 42.67	+10 24.3	1.594	2.527	8.9	19.8
2 1	9 34.56	+11 27.9	1.544	2.517	4.4	19.5
2 11	9 25.28	+12 40.3	1.521	2.507	1.2	19.3
2 21	9 16.00	+13 54.1	1.528	2.498	5.7	19.6
3 2	9 7.92	+15 2.2	1.562	2.487	10.3	19.8
3 12	9 2.04	+15 59.0	1.620	2.477	14.4	20.0

456207 2006 JA_{32} 2 8.9 309°.56 2°.0/10.2 16

1 2	9 50.16	+ 8 9.4	1.404	2.201	18.9	21.4
1 12	9 47.90	+ 8 17.9	1.307	2.182	15.2	21.1
1 22	9 42.58	+ 8 47.3	1.229	2.165	10.8	20.8
2 1	9 34.67	+ 9 36.0	1.174	2.147	5.6	20.5
2 11	9 25.23	+10 38.9	1.145	2.130	2.1	20.2
2 21	9 15.66	+11 47.8	1.141	2.113	6.7	20.4
3 2	9 7.52	+12 54.0	1.162	2.097	12.1	20.7
3 12	9 2.07	+13 50.1	1.205	2.082	17.0	20.9

130657 2000 SH_{97} 2 8.9 10°.31 3°.1/10.7 18

1 2	9 53.27	+ 6 59.5	1.434	2.219	19.1	19.5
1 12	9 49.99	+ 6 45.2	1.353	2.220	15.4	19.2
1 22	9 43.70	+ 6 49.8	1.292	2.221	11.0	19.0
2 1	9 35.05	+ 7 12.3	1.253	2.222	6.2	18.7
2 11	9 25.17	+ 7 48.7	1.241	2.223	3.1	18.5
2 21	9 15.48	+ 8 32.8	1.254	2.225	6.5	18.7
3 2	9 7.37	+ 9 17.8	1.293	2.227	11.2	19.0
3 12	9 1.91	+ 9 57.6	1.355	2.230	15.6	19.3

32994 1997 AT_{21} 2 8.9 343°.67 7°.1/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.21	+29 20.6	1.795	2.610	14.6	18.4
1 12	9 49.79	+31 2.7	1.724	2.608	11.6	18.2
1 22	9 43.50	+32 47.0	1.676	2.607	8.8	18.0
2 1	9 34.94	+34 22.9	1.654	2.605	7.1	17.9
2 11	9 25.20	+35 40.2	1.660	2.604	8.0	17.9
2 21	9 15.62	+36 31.8	1.692	2.603	10.6	18.1
3 2	9 7.53	+36 55.2	1.749	2.602	13.6	18.3
3 12	9 1.96	+36 52.2	1.825	2.601	16.4	18.5

159869 2004 PF_{94} 2 8.9 116°.75 0°.1/ 9.1 18

1 2	9 57.58	+11 48.9	1.778	2.555	16.3	21.1
1 12	9 52.58	+12 17.4	1.706	2.573	12.7	20.9
1 22	9 44.99	+12 59.4	1.657	2.591	8.5	20.6
2 1	9 35.47	+13 50.5	1.633	2.609	3.9	20.4
2 11	9 25.09	+14 44.6	1.639	2.625	0.9	20.2
2 21	9 15.06	+15 35.4	1.674	2.641	5.6	20.6
3 2	9 6.49	+16 17.8	1.737	2.656	9.9	20.9
3 12	9 0.24	+16 48.8	1.824	2.671	13.5	21.1

91419 1999 NP_{59} 2 8.9 90°.81 6°.0/13.3 18

1 2	9 53.04	− 2 4.1	2.045	2.763	16.2	18.8
1 12	9 48.80	− 2 44.1	1.961	2.773	13.7	18.7
1 22	9 42.37	− 3 5.7	1.897	2.783	10.7	18.5
2 1	9 34.29	− 3 7.4	1.857	2.792	7.8	18.3
2 11	9 25.40	− 2 50.0	1.845	2.802	6.0	18.2
2 21	9 16.67	− 2 16.5	1.860	2.811	6.7	18.3
3 2	9 9.06	− 1 32.0	1.902	2.821	9.2	18.5
3 12	9 3.33	− 0 42.4	1.970	2.830	12.1	18.7

456573 2007 DQ_{16} 2 8.9 14°.36 6°.0/ 6.4 18

1 2	10 6.54	+31 9.0	1.705	2.500	16.1	20.5
1 12	9 59.99	+31 18.6	1.629	2.501	12.9	20.3
1 22	9 50.14	+31 22.9	1.574	2.503	9.4	20.1
2 1	9 37.83	+31 13.7	1.546	2.505	6.6	19.9
2 11	9 24.52	+30 44.9	1.545	2.507	6.4	19.9
2 21	9 11.83	+29 54.3	1.573	2.509	9.2	20.1
3 2	9 1.22	+28 44.0	1.628	2.512	12.7	20.3
3 12	8 53.65	+27 19.3	1.705	2.515	16.0	20.5

400278 2007 RE_{301} 2 8.9 187°.38 0°.5/ 8.6 18

1 2	9 56.22	+13 40.2	2.113	2.887	14.1	22.5
1 12	9 51.36	+14 13.0	2.020	2.887	11.0	22.3
1 22	9 44.16	+14 56.8	1.951	2.886	7.4	22.1
2 1	9 35.14	+15 47.8	1.908	2.884	3.3	21.8
2 11	9 25.18	+16 40.2	1.896	2.882	1.1	21.7
2 21	9 15.32	+17 28.7	1.914	2.878	5.3	21.9
3 2	9 6.58	+18 8.6	1.961	2.874	9.3	22.2
3 12	8 59.83	+18 37.4	2.033	2.869	12.7	22.4

288023 2003 UD_{228} 2 8.9 44°.83 3°.9/11.3 18

1 2	9 53.51	+ 5 2.6	1.534	2.307	18.6	20.2
1 12	9 49.90	+ 4 41.6	1.456	2.313	15.1	20.0
1 22	9 43.49	+ 4 39.7	1.397	2.319	11.0	19.7
2 1	9 34.91	+ 4 56.5	1.362	2.325	6.6	19.5
2 11	9 25.25	+ 5 28.8	1.353	2.332	3.9	19.4
2 21	9 15.83	+ 6 11.1	1.370	2.339	6.4	19.5
3 2	9 7.91	+ 6 57.1	1.414	2.346	10.6	19.8
3 12	9 2.46	+ 7 40.2	1.481	2.354	14.6	20.0

15227 1986 VA 2 8.9 165°.08 2°.9/11.4 18

1 2	9 51.64	+ 4 33.8	2.576	3.313	12.8	18.5
1 12	9 47.29	+ 4 22.6	2.480	3.315	10.4	18.3
1 22	9 41.16	+ 4 23.7	2.408	3.318	7.6	18.2
2 1	9 33.70	+ 4 36.4	2.362	3.320	4.7	18.0
2 11	9 25.57	+ 4 58.8	2.345	3.322	2.9	17.9
2 21	9 17.54	+ 5 27.8	2.359	3.324	4.4	18.0
3 2	9 10.36	+ 6 0.0	2.402	3.325	7.3	18.1
3 12	9 4.67	+ 6 31.6	2.472	3.327	10.1	18.3

159967 2006 BZ_{32} 2 8.9 145°.00 0°.6/ 8.5 18

1 2	9 52.12	+14 15.1	2.206	2.987	13.4	20.6
1 12	9 48.03	+14 48.4	2.120	2.991	10.4	20.4
1 22	9 41.83	+15 31.7	2.058	2.995	6.9	20.2
2 1	9 34.05	+16 20.9	2.023	2.999	3.1	19.9
2 11	9 25.49	+17 11.1	2.017	3.003	1.2	19.8
2 21	9 17.07	+17 57.0	2.041	3.006	5.0	20.1
3 2	9 9.71	+18 34.7	2.094	3.009	8.7	20.3
3 12	9 4.14	+19 1.7	2.172	3.012	11.9	20.5

351573 2005 UF_{251} 2 8.9 87°.92 3°.1/10.8 18

1 2	9 58.56	+ 6 39.4	1.472	2.245	19.3	20.7
1 12	9 53.75	+ 6 25.4	1.406	2.265	15.4	20.5
1 22	9 45.97	+ 6 29.9	1.360	2.285	10.9	20.2
2 1	9 35.97	+ 6 51.5	1.338	2.305	6.2	20.0
2 11	9 25.02	+ 7 25.7	1.342	2.324	3.1	19.9
2 21	9 14.52	+ 8 6.5	1.374	2.343	6.3	20.1
3 2	9 5.79	+ 8 47.6	1.433	2.362	10.7	20.4
3 12	8 59.76	+ 9 23.6	1.514	2.380	14.7	20.7

386496 2009 BX_{39} 2 8.9 294.°31 1.°0/ 8.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 59.64	+19 2.2	2.285	3.060	13.1	20.4
1 12	9 54.01	+18 44.6	2.168	3.035	10.4	20.2
1 22	9 45.97	+18 29.7	2.075	3.011	7.0	19.9
2 1	9 36.01	+18 14.3	2.010	2.986	3.2	19.6
2 11	9 24.98	+17 55.4	1.976	2.961	1.4	19.4
2 21	9 13.93	+17 30.7	1.973	2.936	5.3	19.7
3 2	9 3.96	+16 59.1	1.999	2.911	9.2	19.8
3 12	8 55.95	+16 20.4	2.051	2.886	12.7	20.0

315791 2008 FM_{131} 2 8.9 344.°21 2.°2/ 7.7 18

1 2	9 55.58	+18 57.4	1.568	2.375	16.7	21.1
1 12	9 51.68	+19 15.5	1.487	2.372	13.1	20.9
1 22	9 44.78	+19 41.6	1.426	2.370	8.7	20.6
2 1	9 35.53	+20 10.1	1.391	2.367	4.1	20.4
2 11	9 25.11	+20 34.3	1.382	2.365	2.8	20.3
2 21	9 14.93	+20 48.7	1.401	2.363	7.2	20.5
3 2	9 6.36	+20 49.9	1.446	2.362	11.7	20.8
3 12	9 0.44	+20 37.4	1.513	2.361	15.7	21.0

309322 2007 SQ_4 2 8.9 193.°78 0.°9/ 8.3 18

1 2	9 56.10	+14 36.8	2.079	2.857	14.2	22.3
1 12	9 51.35	+15 16.6	1.986	2.855	11.1	22.1
1 22	9 44.21	+16 7.5	1.915	2.852	7.4	21.8
2 1	9 35.19	+17 5.0	1.872	2.849	3.3	21.6
2 11	9 25.20	+18 3.0	1.859	2.844	1.5	21.4
2 21	9 15.27	+18 55.6	1.876	2.839	5.6	21.7
3 2	9 6.48	+19 38.1	1.922	2.833	9.6	21.9
3 12	8 59.72	+20 7.9	1.993	2.826	13.1	22.1

119631 2001 XC_7 2 8.9 349.°42 4.°8/12.7 18

1 2	9 44.89	− 0 27.0	1.457	2.228	19.5	18.7
1 12	9 43.47	− 0 8.8	1.369	2.220	16.2	18.5
1 22	9 39.39	+ 0 39.1	1.298	2.214	12.3	18.2
2 1	9 33.14	+ 1 57.0	1.250	2.208	7.9	18.0
2 11	9 25.70	+ 3 39.9	1.227	2.203	4.9	17.8
2 21	9 18.31	+ 5 38.6	1.229	2.200	6.6	17.9
3 2	9 12.25	+ 7 41.3	1.258	2.197	10.9	18.1
3 12	9 8.54	+ 9 36.5	1.310	2.196	15.2	18.3

228653 2002 EZ_{129} 2 8.9 2.°61 8.°4/14.5 18

1 2	9 46.45	− 3 52.5	1.398	2.154	20.9	19.1
1 12	9 44.72	− 4 45.6	1.320	2.152	17.9	18.9
1 22	9 40.22	− 5 12.0	1.258	2.152	14.4	18.7
2 1	9 33.50	− 5 7.8	1.217	2.152	10.9	18.5
2 11	9 25.62	− 4 32.9	1.198	2.155	8.6	18.3
2 21	9 17.88	− 3 32.1	1.203	2.158	9.1	18.4
3 2	9 11.57	− 2 13.7	1.232	2.163	11.9	18.6
3 12	9 7.73	− 0 48.6	1.283	2.170	15.5	18.8

18319 1981 QS_2 2 8.9 73.°88 0.°3/ 8.8 18

1 2	9 55.84	+12 29.7	1.498	2.292	18.0	18.3
1 12	9 51.63	+13 5.7	1.436	2.314	14.0	18.1
1 22	9 44.55	+13 57.1	1.396	2.335	9.3	17.9
2 1	9 35.33	+14 58.0	1.380	2.357	4.2	17.6
2 11	9 25.20	+16 0.8	1.392	2.378	1.2	17.5
2 21	9 15.53	+16 57.7	1.431	2.399	6.3	17.9
3 2	9 7.58	+17 43.1	1.497	2.420	10.9	18.2
3 12	9 2.23	+18 14.0	1.586	2.441	14.8	18.5

358479 2007 PF_{46} 2 8.9 154.°60 0.°5/ 8.7 18

1 2	9 57.08	+14 19.0	1.782	2.567	15.9	22.1
1 12	9 52.37	+14 38.6	1.699	2.572	12.5	21.8
1 22	9 44.99	+15 9.4	1.639	2.577	8.3	21.6
2 1	9 35.56	+15 47.1	1.605	2.581	3.7	21.3
2 11	9 25.12	+16 26.0	1.599	2.585	1.2	21.2
2 21	9 14.91	+17 0.4	1.622	2.588	5.9	21.5
3 2	9 6.12	+17 26.1	1.673	2.591	10.3	21.7
3 12	8 59.66	+17 40.7	1.748	2.594	14.0	22.0

184766 2005 TO_3 2 8.9 148.°32 3.°4/12.3 18

1 2	9 52.21	+ 0 32.6	2.501	3.219	13.6	21.6
1 12	9 47.76	+ 0 49.2	2.410	3.230	11.2	21.4
1 22	9 41.48	+ 1 22.5	2.341	3.241	8.3	21.3
2 1	9 33.86	+ 2 11.6	2.299	3.251	5.4	21.1
2 11	9 25.57	+ 3 13.3	2.287	3.260	3.4	21.0
2 21	9 17.40	+ 4 23.1	2.305	3.268	4.6	21.1
3 2	9 10.12	+ 5 35.7	2.353	3.276	7.5	21.3
3 12	9 4.38	+ 6 45.9	2.428	3.283	10.3	21.5

378859 2008 TE_{77} 2 8.9 161.°78 0.°6/ 8.4 17

1 2	9 53.05	+14 58.4	2.543	3.316	12.0	22.4
1 12	9 48.44	+15 26.6	2.455	3.322	9.3	22.2
1 22	9 41.96	+16 2.7	2.391	3.327	6.2	22.0
2 1	9 34.08	+16 43.1	2.355	3.331	2.8	21.8
2 11	9 25.52	+17 23.7	2.350	3.335	1.1	21.6
2 21	9 17.10	+18 0.4	2.375	3.338	4.5	21.9
3 2	9 9.61	+18 29.9	2.430	3.341	7.8	22.1
3 12	9 3.71	+18 50.3	2.511	3.344	10.7	22.3

83868 2001 UL_{83} 2 8.9 220.°42 8.°1/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.75	−13 21.3	2.584	3.221	14.9	19.9
1 12	9 45.20	−14 1.8	2.485	3.219	13.3	19.8
1 22	9 39.87	−14 21.9	2.404	3.218	11.4	19.6
2 1	9 33.17	−14 18.8	2.345	3.216	9.6	19.5
2 11	9 25.75	−13 51.9	2.311	3.214	8.4	19.4
2 21	9 18.36	−13 2.9	2.304	3.212	8.2	19.4
3 2	9 11.75	−11 56.1	2.323	3.211	9.3	19.5
3 12	9 6.60	−10 37.6	2.368	3.209	11.0	19.6

460787 2014 WW_{27} 2 8.9 63.°28 1.°5/ 7.9 18

1 2	9 53.69	+16 36.3	1.781	2.579	15.4	21.5
1 12	9 49.75	+17 8.8	1.704	2.584	12.0	21.2
1 22	9 43.23	+17 51.2	1.649	2.590	7.9	21.0
2 1	9 34.76	+18 38.3	1.620	2.597	3.6	20.8
2 11	9 25.36	+19 23.5	1.619	2.603	2.1	20.7
2 21	9 16.20	+20 1.0	1.646	2.609	6.2	20.9
3 2	9 8.42	+20 26.8	1.701	2.615	10.4	21.2
3 12	9 2.91	+20 39.0	1.778	2.622	14.0	21.4

40326 1999 MA 2 8.9 141.°90 3.°1/11.2 18 R

1 2	9 56.43	+ 4 56.5	2.037	2.782	15.5	19.3
1 12	9 51.43	+ 4 48.8	1.953	2.794	12.5	19.1
1 22	9 44.13	+ 4 56.5	1.890	2.805	9.1	18.9
2 1	9 35.12	+ 5 18.7	1.853	2.815	5.4	18.7
2 11	9 25.27	+ 5 52.2	1.845	2.824	3.1	18.6
2 21	9 15.63	+ 6 32.7	1.867	2.833	5.2	18.7
3 2	9 7.18	+ 7 15.3	1.918	2.842	8.8	19.0
3 12	9 0.72	+ 7 55.2	1.994	2.849	12.2	19.2

301679 2010 FA_{48} 2 8.9 207.°21 0.°5/ 9.3 18

1 2	9 55.48	+10 49.8	1.904	2.678	15.5	21.6
1 12	9 51.10	+11 17.7	1.808	2.673	12.2	21.4
1 22	9 44.19	+12 0.1	1.734	2.667	8.3	21.1
2 1	9 35.25	+12 53.9	1.686	2.661	3.9	20.8
2 11	9 25.22	+13 53.3	1.667	2.654	0.9	20.6
2 21	9 15.22	+14 51.9	1.678	2.646	5.5	20.9
3 2	9 6.41	+15 44.0	1.717	2.638	9.9	21.1
3 12	8 59.74	+16 25.5	1.781	2.629	13.7	21.3

294753 2008 CP_{16} 2 8.9 291.°03 0.°0/ 8.8 17

1 2	9 53.18	+13 14.6	1.712	2.504	16.2	21.8
1 12	9 49.64	+13 29.7	1.617	2.493	12.8	21.6
1 22	9 43.39	+13 57.6	1.542	2.481	8.7	21.3
2 1	9 34.94	+14 35.0	1.494	2.470	4.0	21.0
2 11	9 25.29	+15 16.3	1.472	2.458	1.0	20.8
2 21	9 15.67	+15 55.4	1.479	2.447	6.0	21.1
3 2	9 7.34	+16 27.2	1.512	2.436	10.7	21.3
3 12	9 1.35	+16 48.1	1.568	2.425	14.8	21.5

341483 2007 TN_{364} 2 8.9 126.°49 4.°4/13.2 18

1 2	9 50.08	− 1 33.3	2.599	3.308	13.3	21.2
1 12	9 46.06	− 1 44.3	2.509	3.318	11.1	21.1
1 22	9 40.33	− 1 39.4	2.440	3.326	8.6	20.9
2 1	9 33.34	− 1 18.6	2.396	3.335	6.1	20.8
2 11	9 25.73	− 0 43.5	2.381	3.344	4.5	20.7
2 21	9 18.24	+ 0 2.6	2.396	3.352	5.1	20.8
3 2	9 11.58	+ 0 55.6	2.440	3.360	7.4	20.9
3 12	9 6.35	+ 1 50.4	2.510	3.367	9.9	21.1

62317 2000 SU_{121} 2 8.9 102.°19 0.°8/ 9.6 18

1 2	9 52.33	+ 9 41.8	2.043	2.814	14.6	19.8
1 12	9 48.27	+10 10.9	1.965	2.827	11.5	19.6
1 22	9 42.03	+10 53.8	1.908	2.840	7.8	19.4
2 1	9 34.17	+11 47.1	1.879	2.852	3.8	19.2
2 11	9 25.54	+12 45.7	1.878	2.864	1.0	19.0
2 21	9 17.13	+13 43.9	1.908	2.876	4.8	19.3
3 2	9 9.86	+14 36.6	1.965	2.888	8.7	19.6
3 12	9 4.48	+15 19.9	2.048	2.899	12.1	19.8

104715 2000 GZ_{171} 2 8.9 206.°41 3.°0/ 6.1 18

1 2	9 51.22	+20 49.7	2.271	3.067	12.5	19.7
1 12	9 47.43	+21 53.5	2.185	3.066	9.7	19.5
1 22	9 41.52	+23 3.8	2.125	3.065	6.5	19.3
2 1	9 33.97	+24 14.9	2.092	3.064	3.6	19.1
2 11	9 25.58	+25 20.1	2.088	3.062	3.6	19.1
2 21	9 17.29	+26 13.9	2.114	3.061	6.5	19.2
3 2	9 10.03	+26 52.5	2.168	3.059	9.7	19.4
3 12	9 4.57	+27 14.8	2.246	3.058	12.6	19.6

520838 2014 UN_{235} 2 8.9 200.°75 1.°3/ 7.9 17

1 2	9 54.63	+15 59.5	2.091	2.875	13.9	22.1
1 12	9 50.21	+16 37.0	1.999	2.872	10.8	21.9
1 22	9 43.46	+17 24.3	1.930	2.868	7.2	21.6
2 1	9 34.88	+18 16.7	1.888	2.864	3.3	21.4
2 11	9 25.36	+19 8.4	1.876	2.860	1.8	21.3
2 21	9 15.92	+19 53.7	1.894	2.855	5.7	21.5
3 2	9 7.61	+20 28.5	1.940	2.850	9.6	21.7
3 12	9 1.28	+20 50.6	2.010	2.844	13.0	21.9

404369 2013 GC_{26} 2 8.9 21°.59 4°.7/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.75	+21 17.8	1.386	2.208	17.7	20.6
1 12	9 50.69	+22 31.1	1.316	2.210	13.8	20.3
1 22	9 44.36	+23 54.6	1.267	2.213	9.4	20.1
2 1	9 35.44	+25 18.5	1.243	2.216	5.4	19.8
2 11	9 25.21	+26 31.4	1.245	2.219	5.5	19.9
2 21	9 15.27	+27 24.3	1.273	2.222	9.4	20.1
3 2	9 7.15	+27 52.7	1.324	2.226	13.8	20.3
3 12	9 1.96	+27 56.9	1.397	2.230	17.6	20.6

233482 2006 SD_{147} 2 8.9 263°.60 2°.2/11.0 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.12	+ 5 36.0	2.476	3.225	12.9	20.8
1 12	9 45.55	+ 5 45.1	2.371	3.216	10.4	20.6
1 22	9 40.14	+ 6 7.7	2.289	3.207	7.5	20.4
2 1	9 33.32	+ 6 42.7	2.234	3.198	4.3	20.2
2 11	9 25.75	+ 7 27.1	2.208	3.189	2.2	20.0
2 21	9 18.20	+ 8 17.0	2.212	3.180	4.3	20.1
3 2	9 11.45	+ 9 7.9	2.244	3.171	7.6	20.3
3 12	9 6.19	+ 9 55.6	2.304	3.161	10.7	20.5

455541 2004 EE_{16} 2 9.0 343°.04 2°.5/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.75	+19 56.5	1.282	2.108	18.7	20.7
1 12	9 51.00	+19 57.8	1.200	2.096	14.7	20.4
1 22	9 44.77	+20 6.1	1.138	2.085	9.9	20.1
2 1	9 35.71	+20 15.9	1.098	2.075	4.8	19.8
2 11	9 25.17	+20 20.1	1.083	2.067	3.1	19.7
2 21	9 14.83	+20 13.2	1.094	2.059	8.1	19.9
3 2	9 6.39	+19 52.4	1.128	2.053	13.3	20.2
3 12	9 1.06	+19 18.0	1.182	2.049	18.0	20.5

422243 2014 SW_{46} 2 9.0 40°.35 6°.0/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 57.78	+26 43.0	1.431	2.251	17.4	20.4
1 12	9 53.63	+27 34.0	1.372	2.262	13.7	20.1
1 22	9 46.13	+28 26.4	1.334	2.274	9.6	19.9
2 1	9 36.14	+29 10.5	1.320	2.286	6.4	19.8
2 11	9 25.11	+29 37.3	1.333	2.299	6.6	19.8
2 21	9 14.64	+29 41.6	1.371	2.312	9.8	20.0
3 2	9 6.21	+29 22.8	1.433	2.326	13.5	20.3
3 12	9 0.80	+28 43.9	1.516	2.340	17.0	20.6

55865 1997 PZ 2 9.0 276°.27 0°.0/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.15	+11 52.9	1.514	2.311	17.7	19.0
1 12	9 49.99	+12 24.6	1.424	2.302	14.0	18.8
1 22	9 43.84	+13 14.0	1.354	2.293	9.5	18.5
2 1	9 35.24	+14 16.7	1.308	2.284	4.4	18.2
2 11	9 25.29	+15 25.4	1.289	2.276	1.1	17.9
2 21	9 15.36	+16 31.7	1.298	2.267	6.6	18.2
3 2	9 6.88	+17 28.0	1.332	2.258	11.7	18.5
3 12	9 1.00	+18 9.7	1.389	2.249	16.2	18.7

387213 2012 TD_{318} 2 9.0 112°.76 0°.9/ 8.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.56	+15 8.7	2.657	3.433	11.5	21.4
1 12	9 46.43	+15 53.1	2.578	3.448	8.8	21.2
1 22	9 40.57	+16 45.4	2.524	3.461	5.8	21.1
2 1	9 33.47	+17 41.6	2.499	3.475	2.6	20.9
2 11	9 25.78	+18 37.1	2.504	3.488	1.4	20.8
2 21	9 18.25	+19 27.6	2.540	3.501	4.5	21.0
3 2	9 11.59	+20 9.8	2.605	3.514	7.5	21.2
3 12	9 6.41	+20 41.6	2.697	3.526	10.2	21.4

226901 2004 TL_{165} 2 9.0 112°.27 2°.1/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.36	+ 6 54.7	2.096	2.856	14.7	21.3
1 12	9 48.26	+ 7 1.5	2.012	2.864	11.7	21.1
1 22	9 42.03	+ 7 22.7	1.950	2.873	8.3	20.9
2 1	9 34.20	+ 7 56.6	1.913	2.881	4.6	20.7
2 11	9 25.59	+ 8 39.3	1.906	2.889	2.1	20.5
2 21	9 17.16	+ 9 26.1	1.928	2.897	4.8	20.7
3 2	9 9.82	+10 12.2	1.978	2.905	8.4	21.0
3 12	9 4.31	+10 53.3	2.054	2.912	11.8	21.2

282970 2007 SA_{9} 2 9.0 92°.67 3°.1/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.88	+ 2 31.2	2.296	3.037	14.1	20.8
1 12	9 45.44	+ 2 45.2	2.203	3.040	11.5	20.6
1 22	9 40.10	+ 3 16.1	2.132	3.042	8.4	20.4
2 1	9 33.32	+ 4 2.6	2.086	3.044	5.2	20.2
2 11	9 25.81	+ 5 1.6	2.069	3.047	3.1	20.1
2 21	9 18.38	+ 6 8.3	2.082	3.049	4.7	20.2
3 2	9 11.86	+ 7 17.0	2.124	3.051	7.8	20.4
3 12	9 6.94	+ 8 22.5	2.191	3.054	10.9	20.6

303348 2004 TA_{250} 2 9.0 244°.64 4°.7/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 58.13	+23 44.1	1.639	2.446	16.1	20.6
1 12	9 53.81	+24 35.8	1.554	2.439	12.7	20.3
1 22	9 46.34	+25 33.4	1.491	2.431	8.8	20.1
2 1	9 36.35	+26 28.6	1.453	2.423	5.3	19.9
2 11	9 25.03	+27 12.3	1.443	2.414	5.3	19.8
2 21	9 13.85	+27 37.8	1.460	2.406	8.8	20.0
3 2	9 4.30	+27 42.0	1.502	2.397	12.9	20.2
3 12	8 57.50	+27 25.7	1.567	2.388	16.6	20.5

144402 2004 EG_{7} 2 9.0 290°.73 0°.0/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.04	+12 46.7	2.280	3.059	13.0	20.5
1 12	9 46.49	+13 9.3	2.178	3.047	10.2	20.3
1 22	9 40.90	+13 42.5	2.099	3.035	6.9	20.0
2 1	9 33.73	+14 23.4	2.048	3.023	3.2	19.8
2 11	9 25.71	+15 7.6	2.025	3.011	0.8	19.6
2 21	9 17.70	+15 50.4	2.032	3.000	4.8	19.8
3 2	9 10.60	+16 27.7	2.068	2.988	8.5	20.0
3 12	9 5.19	+16 56.3	2.128	2.976	11.8	20.2

68386 2001 QJ_{31} 2 9.0 121°.45 0°.3/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.94	+11 35.5	2.050	2.824	14.5	20.2
1 12	9 49.53	+12 2.7	1.971	2.836	11.3	20.0
1 22	9 42.89	+12 42.1	1.914	2.848	7.6	19.8
2 1	9 34.59	+13 30.1	1.884	2.859	3.5	19.6
2 11	9 25.51	+14 21.4	1.884	2.870	0.8	19.4
2 21	9 16.63	+15 10.8	1.913	2.880	5.0	19.7
3 2	9 8.94	+15 53.5	1.970	2.890	8.9	20.0
3 12	9 3.19	+16 26.6	2.053	2.900	12.2	20.2

170402 2003 TS_{19} 2 9.0 157°.04 1°.3/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.34	+15 51.8	1.966	2.750	14.7	21.1
1 12	9 51.60	+16 29.9	1.883	2.757	11.4	20.9
1 22	9 44.40	+17 18.1	1.824	2.762	7.6	20.7
2 1	9 35.32	+18 11.3	1.792	2.768	3.4	20.4
2 11	9 25.32	+19 3.1	1.789	2.773	1.9	20.3
2 21	9 15.52	+19 47.9	1.815	2.777	5.9	20.6
3 2	9 6.99	+20 21.5	1.870	2.781	9.8	20.8
3 12	9 0.60	+20 41.8	1.949	2.784	13.3	21.0

236106 2005 QU_{84} 2 9.0 120°.55 0°.7/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 2.59	+15 56.4	1.625	2.410	17.2	20.7
1 12	9 56.77	+16 1.8	1.553	2.425	13.4	20.5
1 22	9 47.97	+16 16.5	1.503	2.440	9.0	20.2
2 1	9 36.94	+16 35.8	1.478	2.454	4.0	20.0
2 11	9 24.94	+16 54.2	1.483	2.468	1.4	19.8
2 21	9 13.39	+17 6.8	1.516	2.481	6.3	20.2
3 2	9 3.62	+17 10.7	1.576	2.494	10.8	20.5
3 12	8 56.56	+17 4.6	1.661	2.506	14.7	20.7

262361 2006 TC_{84} 2 9.0 209°.67 3°.6/ 5.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.92	+26 31.6	2.812	3.600	10.6	21.3
1 12	9 49.11	+27 11.0	2.722	3.595	8.3	21.1
1 22	9 42.43	+27 51.0	2.658	3.590	5.8	21.0
2 1	9 34.35	+28 27.0	2.622	3.585	3.9	20.8
2 11	9 25.57	+28 54.2	2.616	3.580	4.0	20.8
2 21	9 16.92	+29 9.6	2.641	3.574	6.1	21.0
3 2	9 9.19	+29 11.4	2.693	3.568	8.6	21.1
3 12	9 3.04	+28 59.8	2.771	3.561	11.0	21.3

426459 2013 QM_{72} 2 9.0 147°.87 1°.6/ 7.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.93	+17 33.4	2.403	3.184	12.4	22.3
1 12	9 49.26	+18 15.4	2.321	3.193	9.6	22.1
1 22	9 42.59	+19 4.4	2.263	3.202	6.3	21.9
2 1	9 34.43	+19 55.9	2.234	3.209	3.0	21.7
2 11	9 25.56	+20 44.7	2.235	3.217	2.1	21.6
2 21	9 16.85	+21 26.2	2.266	3.224	5.2	21.9
3 2	9 9.17	+21 57.2	2.326	3.230	8.5	22.1
3 12	9 3.21	+22 16.2	2.412	3.236	11.4	22.3

401745 2013 JV_{51} 2 9.0 122°.64 0°.0/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.99	+11 29.9	1.780	2.563	16.0	21.4
1 12	9 49.97	+12 7.1	1.700	2.571	12.5	21.1
1 22	9 43.41	+12 59.2	1.643	2.579	8.4	20.9
2 1	9 34.90	+14 1.8	1.611	2.587	3.9	20.7
2 11	9 25.44	+15 8.2	1.608	2.595	0.9	20.5
2 21	9 16.18	+16 11.4	1.634	2.602	5.7	20.8
3 2	9 8.26	+17 5.7	1.688	2.609	10.0	21.1
3 12	9 2.56	+17 47.1	1.765	2.616	13.7	21.3

241149 2007 RR_{33} 2 9.0 134°.65 3°.0/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 58.81	+20 40.7	2.072	2.858	13.9	20.9
1 12	9 53.34	+21 34.7	2.000	2.874	10.8	20.7
1 22	9 45.44	+22 34.4	1.952	2.890	7.2	20.5
2 1	9 35.75	+23 33.5	1.933	2.905	3.8	20.3
2 11	9 25.24	+24 25.2	1.943	2.919	3.5	20.3
2 21	9 15.03	+25 4.1	1.983	2.932	6.6	20.5
3 2	9 6.17	+25 27.6	2.052	2.945	10.0	20.8
3 12	8 59.48	+25 35.3	2.144	2.956	13.1	21.0

263321 2008 CV_{45} 2 9.0 218°.08 1°.9/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.21	+ 5 43.2	2.185	2.937	14.4	20.3
1 12	9 48.26	+ 6 14.6	2.081	2.929	11.6	20.1
1 22	9 42.15	+ 7 3.1	2.000	2.921	8.2	19.9
2 1	9 34.34	+ 8 6.6	1.945	2.912	4.5	19.7
2 11	9 25.59	+ 9 20.7	1.919	2.903	1.9	19.5
2 21	9 16.81	+10 39.3	1.924	2.893	4.8	19.6
3 2	9 8.98	+11 56.1	1.958	2.882	8.6	19.8
3 12	9 2.90	+13 5.7	2.018	2.871	12.1	20.0