81966 2000 QJ_{41} 3 14.9 251°.77 2°.7/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 1.94	− 7 37.6	2.394	3.192	12.1	19.7
2 21	11 56.95	− 7 41.9	2.301	3.185	9.4	19.5
3 2	11 50.30	− 7 32.2	2.232	3.178	6.3	19.3
3 12	11 42.57	− 7 10.1	2.190	3.171	3.4	19.1
3 22	11 34.47	− 6 38.7	2.178	3.164	3.1	19.1
4 1	11 26.82	− 6 2.2	2.195	3.157	5.9	19.3
4 11	11 20.34	− 5 25.4	2.239	3.150	9.0	19.4
4 21	11 15.57	− 4 52.9	2.307	3.143	11.9	19.6

359915 2011 WC_{116} 3 14.9 216°.14 4°.0/11.3 18

2 11	12 6.67	+10 25.5	1.804	2.659	13.0	21.2
2 21	12 0.84	+11 25.9	1.728	2.652	9.5	20.9
3 2	11 52.73	+12 31.0	1.677	2.644	5.9	20.7
3 12	11 43.15	+13 32.8	1.654	2.636	4.0	20.6
3 22	11 33.13	+14 23.6	1.658	2.627	6.4	20.7
4 1	11 23.83	+14 57.1	1.691	2.618	10.1	20.9
4 11	11 16.25	+15 10.2	1.747	2.608	13.8	21.1
4 21	11 11.02	+15 2.9	1.824	2.598	16.9	21.3

284465 2007 GU_{53} 3 14.9 89°.71 4°.0/11.7 18

2 11	12 5.81	+ 7 48.5	1.374	2.240	15.5	20.8
2 21	12 0.43	+ 9 7.1	1.325	2.255	11.2	20.6
3 2	11 52.50	+10 33.3	1.299	2.270	6.6	20.3
3 12	11 43.07	+11 56.4	1.299	2.286	4.0	20.2
3 22	11 33.44	+13 6.1	1.326	2.301	6.8	20.4
4 1	11 24.94	+13 54.7	1.378	2.315	11.1	20.7
4 11	11 18.61	+14 18.7	1.453	2.330	15.1	21.0
4 21	11 14.99	+14 18.7	1.546	2.344	18.5	21.2

2056 Nancy 3 14.9 158°.66 2°.0/16.8 18

2 11	12 5.65	− 6 0.4	1.675	2.493	15.5	16.3
2 21	12 0.14	− 5 31.6	1.600	2.499	11.8	16.0
3 2	11 52.33	− 4 42.8	1.547	2.505	7.5	15.8
3 12	11 43.05	− 3 38.2	1.522	2.510	3.1	15.5
3 22	11 33.39	− 2 24.5	1.524	2.514	3.3	15.5
4 1	11 24.53	− 1 10.2	1.554	2.517	7.7	15.8
4 11	11 17.46	− 0 3.4	1.610	2.520	11.9	16.1
4 21	11 12.81	+ 0 50.2	1.688	2.523	15.6	16.3

391546 2007 TL_{7} 3 14.9 123°.27 1°.0/16.3 17

2 11	12 0.64	− 3 56.2	2.479	3.293	11.2	22.1
2 21	11 55.81	− 3 26.7	2.405	3.304	8.4	21.9
3 2	11 49.53	− 2 45.0	2.356	3.315	5.1	21.7
3 12	11 42.36	− 1 54.7	2.336	3.326	1.8	21.5
3 22	11 35.01	− 1 0.1	2.345	3.336	2.3	21.5
4 1	11 28.17	− 0 6.2	2.385	3.345	5.6	21.8
4 11	11 22.49	+ 0 42.2	2.452	3.355	8.7	22.0
4 21	11 18.39	+ 1 21.6	2.543	3.364	11.4	22.2

92385 2000 HL_{81} 3 15.0 278°.65 2°.8/17.2 18

2 11	12 2.84	− 7 7.8	1.453	2.281	17.0	19.8
2 21	11 58.61	− 6 50.0	1.364	2.266	13.2	19.5
3 2	11 51.73	− 6 8.1	1.295	2.252	8.7	19.2
3 12	11 42.98	− 5 5.0	1.251	2.238	4.0	18.9
3 22	11 33.50	− 3 47.0	1.233	2.224	3.9	18.8
4 1	11 24.68	− 2 23.9	1.242	2.209	8.7	19.1
4 11	11 17.77	− 1 6.3	1.274	2.195	13.6	19.3
4 21	11 13.57	− 0 2.3	1.327	2.180	17.9	19.5

309809 2009 BP_{87} 3 15.0 95°.84 2°.3/13.1 18

2 11	12 4.02	+ 4 18.6	1.484	2.342	15.0	21.1
2 21	11 59.11	+ 5 17.6	1.421	2.347	10.9	20.9
3 2	11 51.78	+ 6 28.4	1.380	2.352	6.2	20.6
3 12	11 42.93	+ 7 42.6	1.366	2.357	2.3	20.4
3 22	11 33.74	+ 8 50.9	1.379	2.362	5.2	20.6
4 1	11 25.46	+ 9 45.1	1.419	2.367	9.8	20.9
4 11	11 19.14	+10 19.9	1.482	2.372	14.1	21.1
4 21	11 15.37	+10 33.6	1.564	2.377	17.6	21.4

79883 1999 AL_{3} 3 15.0 64°.45 17°.0/26.5 18

2 11	12 16.34	+47 28.2	1.564	2.351	17.9	18.1
2 21	12 8.31	+49 26.7	1.576	2.379	17.1	18.1
3 2	11 56.97	+50 47.0	1.607	2.407	17.1	18.1
3 12	11 44.04	+51 20.4	1.656	2.435	17.7	18.3
3 22	11 31.51	+51 5.5	1.723	2.463	18.6	18.4
4 1	11 21.12	+50 6.6	1.805	2.491	19.7	18.6
4 11	11 13.95	+48 32.5	1.901	2.518	20.8	18.7
4 21	11 10.26	+46 32.5	2.008	2.546	21.6	18.9

429313 2010 EZ_{32} 3 15.0 342°.64 0°.2/14.8 17

2 11	11 59.86	− 0 30.9	2.054	2.890	12.3	21.3
2 21	11 55.58	+ 0 15.4	1.975	2.890	9.0	21.1
3 2	11 49.54	+ 1 14.4	1.922	2.889	5.3	20.9
3 12	11 42.40	+ 2 21.3	1.897	2.889	1.2	20.6
3 22	11 34.95	+ 3 29.7	1.900	2.889	3.0	20.7
4 1	11 28.07	+ 4 33.1	1.932	2.889	7.0	21.0
4 11	11 22.54	+ 5 25.9	1.990	2.888	10.6	21.2
4 21	11 18.85	+ 6 4.5	2.070	2.888	13.7	21.4

96110 4224 $T\text{-}_{2}$ 3 15.0 192°.53 1°.2/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.99	+ 1 58.4	1.831	2.671	13.4	21.4
2 21	11 59.53	+ 2 54.4	1.752	2.670	9.8	21.2
3 2	11 51.94	+ 4 3.2	1.698	2.667	5.6	20.9
3 12	11 42.98	+ 5 18.2	1.673	2.665	1.5	20.6
3 22	11 33.61	+ 6 31.7	1.676	2.661	4.0	20.8
4 1	11 24.92	+ 7 36.2	1.707	2.657	8.4	21.1
4 11	11 17.85	+ 8 25.8	1.765	2.652	12.3	21.3
4 21	11 13.01	+ 8 57.6	1.843	2.647	15.7	21.5

294511 2007 XO_{10} 3 15.0 164°.85 0°.6/15.7 17

2 11	12 0.62	− 2 11.6	2.625	3.444	10.5	21.7
2 21	11 55.77	− 1 41.1	2.544	3.447	7.8	21.6
3 2	11 49.51	− 1 0.0	2.489	3.451	4.7	21.4
3 12	11 42.38	− 0 11.7	2.463	3.454	1.4	21.1
3 22	11 35.02	+ 0 39.6	2.467	3.457	2.2	21.2
4 1	11 28.13	+ 1 29.2	2.501	3.459	5.5	21.4
4 11	11 22.31	+ 2 12.8	2.563	3.461	8.5	21.6
4 21	11 18.00	+ 2 47.3	2.649	3.463	11.2	21.8

135335 2001 TC_{3} 3 15.0 165°.02 0°.6/14.1 18

2 11	12 0.74	+ 2 33.6	3.014	3.841	9.1	21.6
2 21	11 55.68	+ 3 9.2	2.936	3.847	6.5	21.5
3 2	11 49.38	+ 3 51.3	2.885	3.852	3.7	21.3
3 12	11 42.34	+ 4 36.3	2.864	3.857	0.9	21.1
3 22	11 35.12	+ 5 20.5	2.875	3.861	2.5	21.2
4 1	11 28.31	+ 6 0.1	2.916	3.864	5.4	21.4
4 11	11 22.46	+ 6 31.9	2.985	3.867	8.0	21.6
4 21	11 17.94	+ 6 54.2	3.078	3.869	10.3	21.7

202778 Dmytria 3 15.0 102°.13 1°.9/16.9 17

2 11	12 3.38	− 5 5.6	2.307	3.115	12.1	20.4
2 21	11 57.90	− 5 5.5	2.233	3.127	9.2	20.2
3 2	11 50.79	− 4 52.8	2.184	3.138	5.9	20.0
3 12	11 42.68	− 4 29.9	2.163	3.149	2.7	19.9
3 22	11 34.35	− 4 0.2	2.171	3.160	2.7	19.9
4 1	11 26.60	− 3 28.2	2.209	3.171	5.8	20.1
4 11	11 20.15	− 2 58.4	2.274	3.182	9.0	20.3
4 21	11 15.48	− 2 34.6	2.363	3.192	11.9	20.5

333430 2003 QT_{110} 3 15.0 202°.65 0°.9/15.9 17

2 11	12 7.24	− 1 15.3	2.597	3.406	10.9	21.5
2 21	12 0.65	− 1 19.9	2.503	3.401	8.1	21.3
3 2	11 52.40	− 1 16.0	2.437	3.396	5.0	21.1
3 12	11 43.08	− 1 5.6	2.400	3.390	1.6	20.9
3 22	11 33.42	− 0 51.7	2.394	3.383	2.4	20.9
4 1	11 24.22	− 0 37.6	2.419	3.376	5.8	21.1
4 11	11 16.21	− 0 26.7	2.473	3.368	8.9	21.3
4 21	11 9.90	− 0 21.7	2.552	3.360	11.7	21.5

497806 2006 TW_{32} 3 15.0 132°.77 1°.8/17.5 17

2 11	11 59.38	− 7 25.0	2.774	3.570	10.6	22.7
2 21	11 54.79	− 6 55.3	2.695	3.581	8.1	22.5
3 2	11 48.91	− 6 12.4	2.641	3.591	5.3	22.3
3 12	11 42.24	− 5 19.1	2.617	3.601	2.5	22.1
3 22	11 35.39	− 4 19.5	2.622	3.610	2.3	22.1
4 1	11 28.99	− 3 18.0	2.657	3.620	5.0	22.3
4 11	11 23.61	− 2 19.6	2.721	3.629	7.8	22.5
4 21	11 19.64	− 1 28.2	2.810	3.637	10.2	22.7

357334 2003 OJ_{12} 3 15.0 207°.48 0°.3/15.4 17

2 11	12 2.38	− 4 57.6	2.049	2.865	13.1	21.4
2 21	11 57.51	− 3 27.2	1.957	2.859	9.8	21.2
3 2	11 50.73	− 1 36.2	1.890	2.853	5.9	20.9
3 12	11 42.71	+ 0 29.2	1.853	2.845	1.5	20.6
3 22	11 34.28	+ 2 40.2	1.847	2.837	3.0	20.7
4 1	11 26.38	+ 4 46.7	1.872	2.827	7.3	21.0
4 11	11 19.86	+ 6 39.8	1.925	2.818	11.2	21.2
4 21	11 15.30	+ 8 13.6	2.002	2.807	14.6	21.4

146336 2001 OK_{13} 3 15.0 193°.60 1°.4/13.3 17

2 11	12 3.70	+ 4 15.7	2.566	3.399	10.3	21.4
2 21	11 58.08	+ 5 4.3	2.482	3.397	7.4	21.2
3 2	11 50.89	+ 6 0.2	2.425	3.393	4.2	21.0
3 12	11 42.73	+ 6 58.6	2.398	3.389	1.5	20.7
3 22	11 34.28	+ 7 54.5	2.401	3.383	3.4	20.9
4 1	11 26.30	+ 8 42.9	2.435	3.377	6.7	21.1
4 11	11 19.47	+ 9 20.1	2.497	3.370	9.7	21.3
4 21	11 14.26	+ 9 44.2	2.582	3.363	12.3	21.4

333233 2012 HY_{48} 3 15.0 104°.10 7°.5/ 6.7 18

2 11	12 3.05	+20 12.6	1.816	2.680	12.4	20.4
2 21	11 58.12	+21 55.1	1.768	2.686	9.7	20.2
3 2	11 51.08	+23 32.3	1.745	2.691	7.8	20.1
3 12	11 42.77	+24 54.0	1.748	2.696	7.9	20.1
3 22	11 34.22	+25 52.3	1.778	2.701	9.8	20.2
4 1	11 26.49	+26 22.9	1.833	2.706	12.5	20.4
4 11	11 20.49	+26 25.3	1.909	2.712	15.2	20.6
4 21	11 16.74	+26 2.5	2.003	2.716	17.4	20.8

62901 2000 UL_{105} 3 15.0 280°.71 0°.6/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 59.61	− 0 38.8	1.830	2.672	13.4	19.2
2 21	11 55.68	+ 0 27.9	1.745	2.663	9.8	19.0
3 2	11 49.74	+ 1 51.2	1.684	2.653	5.7	18.7
3 12	11 42.49	+ 3 24.7	1.651	2.643	1.3	18.4
3 22	11 34.81	+ 5 0.1	1.646	2.633	3.6	18.5
4 1	11 27.69	+ 6 28.5	1.669	2.624	8.1	18.8
4 11	11 22.04	+ 7 42.6	1.717	2.614	12.1	19.0
4 21	11 18.46	+ 8 37.8	1.787	2.604	15.6	19.2

231798 2000 EP_2 3 15.0 113°.78 0°.3/15.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.49	+ 0 18.8	1.452	2.293	16.3	20.0
2 21	12 3.15	+ 0 25.1	1.387	2.302	12.0	19.7
3 2	11 54.16	+ 0 45.1	1.345	2.311	7.1	19.5
3 12	11 43.52	+ 1 13.8	1.328	2.320	1.8	19.2
3 22	11 32.52	+ 1 45.1	1.339	2.329	3.7	19.3
4 1	11 22.57	+ 2 12.3	1.377	2.337	8.8	19.6
4 11	11 14.78	+ 2 29.9	1.439	2.346	13.4	19.9
4 21	11 9.80	+ 2 34.7	1.522	2.353	17.2	20.2

363309 2002 NW_{53} 3 15.0 250°.54 0°.4/15.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.35	− 1 21.7	1.850	2.681	13.7	22.0
2 21	11 59.22	− 0 52.5	1.756	2.666	10.2	21.7
3 2	11 51.87	− 0 8.5	1.685	2.650	6.1	21.4
3 12	11 43.01	+ 0 46.2	1.642	2.634	1.6	21.1
3 22	11 33.58	+ 1 45.5	1.627	2.617	3.2	21.2
4 1	11 24.68	+ 2 42.2	1.640	2.599	7.8	21.4
4 11	11 17.31	+ 3 29.9	1.679	2.581	12.0	21.6
4 21	11 12.17	+ 4 4.0	1.740	2.563	15.7	21.8

4760 Jia–xiang 3 15.0 237°.01 0°.3/15.3 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.25	− 3 12.2	1.709	2.542	14.6	18.0
2 21	11 57.76	− 2 12.0	1.621	2.533	10.9	17.7
3 2	11 51.04	− 0 51.8	1.558	2.523	6.5	17.5
3 12	11 42.82	+ 0 42.7	1.521	2.512	1.7	17.1
3 22	11 34.08	+ 2 22.9	1.512	2.502	3.4	17.2
4 1	11 25.95	+ 3 59.0	1.531	2.491	8.2	17.5
4 11	11 19.45	+ 5 22.2	1.576	2.479	12.6	17.7
4 21	11 15.25	+ 6 26.8	1.643	2.467	16.4	17.9

81627 2000 HW_{75} 3 15.0 209°.02 4°.7/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.69	+15 55.6	2.470	3.325	9.9	19.6
2 21	11 56.70	+17 2.6	2.401	3.321	7.4	19.4
3 2	11 50.12	+18 8.8	2.359	3.317	5.3	19.3
3 12	11 42.56	+19 7.9	2.346	3.312	4.8	19.3
3 22	11 34.74	+19 54.2	2.362	3.307	6.4	19.4
4 1	11 27.45	+20 23.8	2.405	3.302	9.0	19.5
4 11	11 21.38	+20 35.0	2.472	3.297	11.5	19.7
4 21	11 16.98	+20 28.2	2.561	3.291	13.7	19.8

173819 2001 SD_{324} 3 15.0 159°.53 1°.8/17.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.90	− 6 13.8	2.601	3.403	11.1	21.2
2 21	11 56.02	− 5 57.6	2.518	3.407	8.5	21.0
3 2	11 49.69	− 5 28.6	2.459	3.411	5.5	20.9
3 12	11 42.46	− 4 49.3	2.429	3.415	2.6	20.7
3 22	11 34.99	− 4 3.4	2.429	3.418	2.4	20.7
4 1	11 27.99	− 3 15.3	2.459	3.421	5.3	20.9
4 11	11 22.07	− 2 29.8	2.516	3.423	8.3	21.1
4 21	11 17.70	− 1 50.6	2.598	3.426	11.0	21.2

428402 2007 TQ_{32} 3 15.0 115°.28 0°.5/15.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.53	− 3 34.0	2.334	3.155	11.6	21.6
2 21	11 55.11	− 2 35.8	2.262	3.166	8.6	21.5
3 2	11 49.17	− 1 23.9	2.215	3.177	5.1	21.3
3 12	11 42.34	− 0 3.1	2.197	3.188	1.5	21.0
3 22	11 35.30	+ 1 20.7	2.209	3.199	2.4	21.1
4 1	11 28.81	+ 2 40.9	2.251	3.209	6.0	21.4
4 11	11 23.52	+ 3 51.8	2.320	3.219	9.3	21.6
4 21	11 19.86	+ 4 49.8	2.413	3.229	12.1	21.8

387376 2012 XB_{137} 3 15.0 222°.66 4°.9/ 8.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.57	+16 46.1	2.462	3.318	9.8	20.5
2 21	11 55.89	+17 57.6	2.395	3.315	7.4	20.3
3 2	11 49.66	+19 7.8	2.356	3.311	5.4	20.2
3 12	11 42.46	+20 10.2	2.345	3.308	5.1	20.2
3 22	11 35.01	+20 59.0	2.363	3.304	6.7	20.3
4 1	11 28.09	+21 30.4	2.408	3.300	9.2	20.4
4 11	11 22.36	+21 42.6	2.477	3.296	11.6	20.6
4 21	11 18.30	+21 36.3	2.566	3.291	13.7	20.7

142163 2002 RF_{32} 3 15.0 258°.31 2°.1/16.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.60	− 4 28.4	1.865	2.681	14.3	20.8
2 21	12 0.93	− 4 32.3	1.764	2.662	10.9	20.5
3 2	11 52.93	− 4 21.2	1.687	2.644	7.0	20.3
3 12	11 43.29	− 3 57.0	1.637	2.624	3.1	20.0
3 22	11 32.98	− 3 23.7	1.615	2.604	3.3	19.9
4 1	11 23.14	− 2 46.7	1.622	2.584	7.5	20.2
4 11	11 14.86	− 2 12.4	1.655	2.564	11.8	20.4
4 21	11 8.89	− 1 45.8	1.710	2.542	15.5	20.5

28278 1999 CQ_{27} 3 15.0 272°.03 5°.5/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 2.07	+17 2.0	2.143	3.002	11.0	18.2
2 21	11 57.19	+18 10.8	2.076	2.997	8.3	18.0
3 2	11 50.49	+19 17.9	2.036	2.992	6.1	17.9
3 12	11 42.66	+20 15.8	2.023	2.986	5.7	17.9
3 22	11 34.55	+20 58.2	2.038	2.981	7.5	18.0
4 1	11 27.05	+21 20.9	2.079	2.976	10.2	18.1
4 11	11 20.97	+21 22.4	2.144	2.970	12.9	18.3
4 21	11 16.80	+21 3.8	2.229	2.965	15.3	18.4

502875 2015 DU_{209} 3 15.0 262°.03 4°.5/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.30	+14 13.4	2.305	3.164	10.3	21.2
2 21	11 55.79	+15 24.1	2.235	3.159	7.6	21.0
3 2	11 49.63	+16 35.5	2.192	3.154	5.2	20.8
3 12	11 42.46	+17 40.9	2.177	3.148	4.6	20.8
3 22	11 35.01	+18 34.1	2.191	3.143	6.4	20.9
4 1	11 28.09	+19 10.6	2.232	3.138	9.1	21.0
4 11	11 22.43	+19 28.1	2.297	3.133	11.8	21.2
4 21	11 18.50	+19 26.6	2.383	3.128	14.2	21.4

429364 2010 GC_{142} 3 15.0 344°.39 0°.1/14.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.98	+ 0 42.8	1.960	2.799	12.7	21.3
2 21	11 57.22	+ 1 2.7	1.881	2.796	9.4	21.1
3 2	11 50.56	+ 1 33.6	1.827	2.794	5.5	20.9
3 12	11 42.69	+ 2 11.1	1.800	2.793	1.3	20.6
3 22	11 34.48	+ 2 50.1	1.802	2.791	3.0	20.7
4 1	11 26.88	+ 3 25.1	1.832	2.790	7.2	21.0
4 11	11 20.73	+ 3 51.3	1.887	2.789	10.9	21.2
4 21	11 16.58	+ 4 5.9	1.964	2.788	14.1	21.4

87098 2000 LS_{10} 3 15.0 203°.21 1°.5/16.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.66	− 6 34.9	2.573	3.373	11.3	20.4
2 21	11 56.65	− 5 52.4	2.478	3.367	8.6	20.2
3 2	11 50.11	− 4 54.9	2.408	3.361	5.5	20.0
3 12	11 42.58	− 3 45.6	2.367	3.354	2.3	19.8
3 22	11 34.73	− 2 29.3	2.356	3.346	2.4	19.7
4 1	11 27.31	− 1 11.8	2.376	3.337	5.6	19.9
4 11	11 20.98	+ 0 1.1	2.425	3.328	8.8	20.1
4 21	11 16.23	+ 1 4.8	2.499	3.318	11.6	20.3

53231 1999 CN_{112} 3 15.0 19°.28 2°.7/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 58.84	− 9 23.8	2.055	2.859	13.6	19.1
2 21	11 54.88	− 8 53.3	1.973	2.861	10.5	18.9
3 2	11 49.18	− 8 3.3	1.914	2.862	7.1	18.7
3 12	11 42.37	− 6 57.0	1.881	2.864	3.7	18.5
3 22	11 35.25	− 5 39.6	1.877	2.865	3.2	18.5
4 1	11 28.69	− 4 18.2	1.901	2.867	6.3	18.7
4 11	11 23.46	− 3 0.2	1.952	2.869	9.8	18.9
4 21	11 20.07	− 1 51.7	2.027	2.871	13.0	19.1

309318 2007 RR_{315} 3 15.0 187°.86 2°.4/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.97	+ 5 32.0	1.832	2.680	13.1	21.1
2 21	11 59.52	+ 6 33.4	1.758	2.680	9.4	20.9
3 2	11 51.95	+ 7 44.0	1.709	2.679	5.4	20.6
3 12	11 43.03	+ 8 56.6	1.688	2.678	2.4	20.4
3 22	11 33.74	+10 3.4	1.696	2.676	4.9	20.6
4 1	11 25.16	+10 57.3	1.732	2.673	9.0	20.8
4 11	11 18.21	+11 33.8	1.793	2.670	12.7	21.1
4 21	11 13.48	+11 51.2	1.875	2.666	15.9	21.3

43763 Russert 3 15.0 297°.29 1°.1/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.37	− 0 39.7	1.513	2.364	15.2	18.7
2 21	11 56.88	+ 0 37.5	1.408	2.330	11.3	18.4
3 2	11 50.83	+ 2 18.7	1.326	2.296	6.6	18.0
3 12	11 42.85	+ 4 17.2	1.270	2.262	1.6	17.6
3 22	11 33.97	+ 6 22.3	1.241	2.228	4.7	17.7
4 1	11 25.48	+ 8 21.0	1.238	2.193	10.3	17.9
4 11	11 18.68	+10 1.5	1.260	2.159	15.5	18.1
4 21	11 14.48	+11 16.6	1.301	2.124	20.0	18.3

434896 2006 SC_{409} 3 15.0 217°.67 0°.5/15.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.58	− 0 50.2	2.807	3.623	10.0	21.4
2 21	11 57.19	− 0 39.4	2.713	3.615	7.4	21.2
3 2	11 50.37	− 0 20.1	2.646	3.607	4.4	21.0
3 12	11 42.64	+ 0 5.1	2.608	3.599	1.3	20.7
3 22	11 34.62	+ 0 32.9	2.600	3.590	2.2	20.8
4 1	11 26.99	+ 0 59.7	2.624	3.581	5.4	21.0
4 11	11 20.37	+ 1 22.2	2.675	3.571	8.3	21.2
4 21	11 15.22	+ 1 37.6	2.751	3.561	10.9	21.3

461601 2004 TO_{111} 3 15.0 152°.67 0°.4/15.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.97	− 1 58.5	1.948	2.772	13.4	22.3
2 21	12 0.06	− 1 18.4	1.876	2.782	9.9	22.1
3 2	11 52.17	− 0 24.2	1.828	2.792	5.9	21.9
3 12	11 43.07	+ 0 39.3	1.809	2.800	1.6	21.6
3 22	11 33.69	+ 1 45.6	1.818	2.808	3.0	21.7
4 1	11 25.03	+ 2 47.8	1.858	2.815	7.2	22.0
4 11	11 17.95	+ 3 40.1	1.923	2.821	11.0	22.3
4 21	11 12.99	+ 4 18.7	2.012	2.826	14.2	22.5

371184 2005 YV_{111} 3 15.0 171°.65 2°.2/17.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 1.89	− 6 27.9	1.935	2.750	13.9	20.9
2 21	11 57.20	− 6 9.9	1.854	2.750	10.6	20.7
3 2	11 50.58	− 5 34.6	1.796	2.751	6.9	20.5
3 12	11 42.71	− 4 45.0	1.765	2.751	3.2	20.2
3 22	11 34.48	− 3 46.3	1.762	2.751	3.0	20.2
4 1	11 26.87	− 2 45.0	1.787	2.751	6.7	20.5
4 11	11 20.72	− 1 47.9	1.838	2.751	10.5	20.7
4 21	11 16.60	− 1 0.4	1.912	2.751	13.8	20.9

411231 2010 PG_{57} 3 15.0 193°.49 1°.5/16.3 18

2 11	12 6.44	− 3 16.0	1.845	2.666	14.2	21.1
2 21	12 0.63	− 3 9.2	1.763	2.665	10.7	20.8
3 2	11 52.64	− 2 47.9	1.704	2.664	6.6	20.6
3 12	11 43.21	− 2 15.2	1.672	2.662	2.5	20.3
3 22	11 33.35	− 1 35.8	1.669	2.659	3.0	20.3
4 1	11 24.16	− 0 55.8	1.694	2.656	7.3	20.6
4 11	11 16.61	− 0 21.0	1.746	2.653	11.4	20.8
4 21	11 11.33	+ 0 4.1	1.820	2.649	14.9	21.0

422787 2001 WS_{1} 3 15.0 137°.78 0°.6/14.2 18

2 11	12 6.00	+ 2 32.6	3.145	3.961	9.0	22.6
2 21	11 59.35	+ 3 6.0	3.078	3.983	6.5	22.4
3 2	11 51.46	+ 3 45.3	3.038	4.003	3.7	22.3
3 12	11 42.88	+ 4 26.9	3.031	4.023	0.9	22.1
3 22	11 34.20	+ 5 7.3	3.056	4.041	2.4	22.2
4 1	11 26.02	+ 5 43.0	3.113	4.058	5.2	22.4
4 11	11 18.88	+ 6 11.3	3.199	4.075	7.7	22.6
4 21	11 13.15	+ 6 30.6	3.311	4.090	9.9	22.8

425161 2009 SA_{360} 3 15.0 172°.08 1°.8/16.9 18

2 11	12 5.79	− 5 18.0	2.514	3.312	11.5	21.7
2 21	11 59.62	− 5 15.3	2.428	3.316	8.8	21.5
3 2	11 51.82	− 5 0.7	2.368	3.320	5.7	21.3
3 12	11 43.00	− 4 36.1	2.337	3.323	2.6	21.1
3 22	11 33.89	− 4 4.8	2.336	3.325	2.6	21.1
4 1	11 25.30	− 3 31.0	2.366	3.326	5.7	21.3
4 11	11 17.92	− 2 59.1	2.424	3.327	8.8	21.5
4 21	11 12.26	− 2 32.8	2.507	3.327	11.6	21.7

373500 2000 YH_{100} 3 15.0 57°.11 17°.9/30.2 18

2 11	12 7.02	−32 55.1	1.117	1.827	27.8	20.3
2 21	12 2.79	−34 58.7	1.059	1.836	25.3	20.1
3 2	11 54.70	−36 16.9	1.012	1.845	22.7	19.9
3 12	11 43.81	−36 39.1	0.980	1.854	20.2	19.8
3 22	11 31.94	−36 0.5	0.964	1.863	18.4	19.7
4 1	11 21.28	−34 25.8	0.966	1.873	17.9	19.7
4 11	11 13.73	−32 10.4	0.987	1.883	18.9	19.8
4 21	11 10.24	−29 34.3	1.025	1.893	20.9	20.0

405196 2003 CQ_{25} 3 15.0 25°.25 8°.7/ 5.8 18

2 11	11 53.46	+11 4.7	0.976	1.877	17.0	18.4
2 21	11 52.04	+14 48.2	0.954	1.900	12.3	18.2
3 2	11 47.85	+18 32.1	0.956	1.924	9.0	18.1
3 12	11 42.08	+21 51.7	0.983	1.950	9.5	18.2
3 22	11 36.15	+24 28.4	1.033	1.977	12.8	18.5
4 1	11 31.45	+26 13.0	1.105	2.006	16.7	18.8
4 11	11 29.01	+27 6.5	1.195	2.037	20.1	19.1
4 21	11 29.24	+27 15.8	1.300	2.068	22.8	19.4

317326 2002 JG_{24} 3 15.0 302°.77 4°.2/11.8 17

2 11	12 3.75	+ 8 47.9	1.396	2.265	15.1	20.1
2 21	11 59.39	+ 9 44.4	1.314	2.246	11.1	19.8
3 2	11 52.26	+10 49.8	1.255	2.227	6.7	19.5
3 12	11 43.20	+11 54.9	1.221	2.208	4.2	19.3
3 22	11 33.41	+12 49.6	1.213	2.189	7.1	19.4
4 1	11 24.36	+13 25.5	1.230	2.171	11.8	19.6
4 11	11 17.33	+13 37.4	1.268	2.153	16.4	19.9
4 21	11 13.13	+13 24.7	1.325	2.136	20.3	20.1

216738 2005 JA_{90} 3 15.0 235°.86 0°.7/15.7 17

2 11	12 3.46	− 2 40.1	1.981	2.806	13.2	21.3
2 21	11 58.42	− 2 4.9	1.888	2.794	9.9	21.1
3 2	11 51.37	− 1 14.4	1.819	2.781	6.0	20.8
3 12	11 42.94	− 0 12.5	1.777	2.768	1.8	20.5
3 22	11 34.03	+ 0 54.7	1.764	2.754	2.9	20.5
4 1	11 25.63	+ 2 0.3	1.780	2.740	7.2	20.8
4 11	11 18.66	+ 2 57.6	1.823	2.725	11.2	21.0
4 21	11 13.74	+ 3 42.1	1.888	2.710	14.7	21.2

430848 2005 LW_{25} 3 15.0 283°.33 2°.3/17.8 17

2 11	11 58.72	− 8 28.4	2.197	3.001	12.8	21.1
2 21	11 54.79	− 7 54.3	2.100	2.989	9.9	20.9
3 2	11 49.16	− 7 1.8	2.027	2.977	6.6	20.7
3 12	11 42.41	− 5 53.7	1.981	2.965	3.3	20.5
3 22	11 35.26	− 4 35.0	1.964	2.953	2.9	20.4
4 1	11 28.56	− 3 12.4	1.976	2.941	6.2	20.6
4 11	11 23.07	− 1 53.1	2.015	2.929	9.7	20.8
4 21	11 19.34	− 0 42.9	2.077	2.917	12.9	21.0

22134 Kirian 3 15.0 242°.99 0°.2/15.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 0.49	− 0 46.0	2.690	3.512	10.2	20.2
2 21	11 55.77	− 0 19.4	2.594	3.500	7.5	20.0
3 2	11 49.61	+ 0 16.8	2.524	3.487	4.5	19.8
3 12	11 42.50	+ 0 59.6	2.482	3.474	1.2	19.5
3 22	11 35.08	+ 1 44.8	2.471	3.461	2.3	19.6
4 1	11 28.03	+ 2 28.2	2.490	3.447	5.6	19.8
4 11	11 21.98	+ 3 5.6	2.537	3.433	8.7	20.0
4 21	11 17.42	+ 3 34.1	2.607	3.418	11.4	20.2

359006 2008 UR_{84} 3 15.0 97°.03 3°.0/17.6 18

2 11	12 5.87	− 8 13.2	1.505	2.321	17.1	21.2
2 21	12 0.40	− 7 53.4	1.443	2.339	13.1	21.0
3 2	11 52.53	− 7 10.5	1.403	2.356	8.6	20.8
3 12	11 43.19	− 6 8.5	1.389	2.373	4.2	20.6
3 22	11 33.59	− 4 54.6	1.401	2.390	3.8	20.6
4 1	11 24.98	− 3 38.0	1.440	2.406	7.9	20.9
4 11	11 18.37	− 2 27.7	1.505	2.422	12.1	21.1
4 21	11 14.34	− 1 30.3	1.591	2.438	15.8	21.4

39435 2029 $T\text{-}_{3}$ 3 15.0 30°.32 0°.1/14.9 18

2 11	12 6.06	+ 2 9.5	1.518	2.367	15.3	18.1
2 21	12 0.54	+ 2 5.3	1.456	2.376	11.2	17.9
3 2	11 52.61	+ 2 11.5	1.417	2.385	6.5	17.6
3 12	11 43.22	+ 2 23.7	1.403	2.396	1.5	17.3
3 22	11 33.54	+ 2 36.8	1.417	2.406	3.6	17.5
4 1	11 24.82	+ 2 45.5	1.457	2.418	8.4	17.8
4 11	11 18.08	+ 2 45.7	1.522	2.430	12.6	18.1
4 21	11 13.89	+ 2 35.1	1.607	2.442	16.2	18.3

53126 1999 AO_{24} 3 15.0 274°.28 1°.3/16.3 18

2 11	12 1.80	− 3 17.8	2.227	3.047	12.1	18.9
2 21	11 57.01	− 3 7.1	2.133	3.035	9.1	18.7
3 2	11 50.45	− 2 43.8	2.063	3.023	5.7	18.4
3 12	11 42.72	− 2 10.6	2.021	3.011	2.1	18.2
3 22	11 34.58	− 1 31.6	2.008	2.999	2.6	18.2
4 1	11 26.90	− 0 51.8	2.024	2.986	6.3	18.4
4 11	11 20.46	− 0 16.1	2.067	2.974	9.9	18.6
4 21	11 15.82	+ 0 11.4	2.133	2.962	13.0	18.8

377369 2004 RL_{150} 3 15.0 195°.24 1°.1/13.7 17

2 11	12 2.59	+ 3 7.4	2.393	3.228	10.9	21.9
2 21	11 57.39	+ 3 53.2	2.311	3.226	7.9	21.7
3 2	11 50.57	+ 4 47.5	2.255	3.223	4.5	21.5
3 12	11 42.73	+ 5 45.5	2.228	3.219	1.3	21.3
3 22	11 34.60	+ 6 41.8	2.231	3.215	3.3	21.4
4 1	11 26.96	+ 7 31.3	2.263	3.211	6.8	21.6
4 11	11 20.53	+ 8 9.8	2.323	3.205	10.0	21.8
4 21	11 15.80	+ 8 34.9	2.406	3.199	12.8	22.0

191713 2004 RE_{199} 3 15.0 158°.87 0°.0/15.1 18

2 11	12 6.12	+ 1 5.9	2.345	3.169	11.4	20.5
2 21	11 59.92	+ 1 15.6	2.267	3.175	8.4	20.3
3 2	11 52.01	+ 1 33.6	2.216	3.180	4.9	20.1
3 12	11 43.07	+ 1 56.6	2.193	3.185	1.2	19.8
3 22	11 33.87	+ 2 20.7	2.201	3.190	2.6	19.9
4 1	11 25.26	+ 2 41.9	2.238	3.194	6.3	20.2
4 11	11 17.97	+ 2 56.5	2.304	3.197	9.6	20.4
4 21	11 12.50	+ 3 2.5	2.393	3.200	12.4	20.6

411687 2011 YZ_{25} 3 15.0 92°.55 2°.5/12.8 18

2 11	12 5.57	+ 5 34.7	1.624	2.477	14.2	21.4
2 21	11 59.96	+ 6 33.2	1.571	2.496	10.2	21.2
3 2	11 52.16	+ 7 39.9	1.543	2.514	5.8	21.0
3 12	11 43.10	+ 8 47.1	1.542	2.532	2.5	20.8
3 22	11 33.87	+ 9 46.5	1.569	2.550	5.1	21.0
4 1	11 25.61	+10 31.6	1.623	2.567	9.2	21.3
4 11	11 19.22	+10 58.5	1.701	2.584	13.0	21.6
4 21	11 15.20	+11 6.4	1.800	2.601	16.1	21.8

171310 2006 HN_{43} 3 15.0 191°.54 7°.1/ 7.5 18

2 11	12 8.17	+21 11.4	2.027	2.877	11.9	20.6
2 21	12 1.76	+22 31.9	1.966	2.876	9.3	20.5
3 2	11 53.22	+23 46.9	1.931	2.874	7.5	20.4
3 12	11 43.36	+24 47.3	1.924	2.871	7.4	20.3
3 22	11 33.21	+25 26.4	1.945	2.867	9.1	20.4
4 1	11 23.83	+25 40.5	1.991	2.863	11.7	20.6
4 11	11 16.16	+25 29.3	2.060	2.858	14.4	20.8
4 21	11 10.75	+24 55.6	2.148	2.852	16.7	20.9

128181 2003 RS_{14} 3 15.0 225°.18 1°.5/13.4 17

2 11	12 1.21	+ 3 32.7	2.066	2.911	11.9	20.2
2 21	11 56.61	+ 4 25.3	1.987	2.908	8.6	20.0
3 2	11 50.21	+ 5 27.6	1.934	2.904	4.9	19.8
3 12	11 42.66	+ 6 33.8	1.909	2.901	1.6	19.5
3 22	11 34.79	+ 7 37.5	1.913	2.897	3.9	19.7
4 1	11 27.47	+ 8 32.3	1.945	2.893	7.7	19.9
4 11	11 21.52	+ 9 13.6	2.003	2.889	11.2	20.1
4 21	11 17.46	+ 9 38.9	2.083	2.884	14.2	20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
505049 2011 SV_7			3 15.0 172.°83		1.°0/16.4 17	
	h m	° ′			°	m
2 11	11 58.88	− 4 40.7	2.682	3.493	10.5	21.8
2 21	11 54.55	− 4 1.5	2.598	3.495	7.9	21.6
3 2	11 48.86	− 3 9.8	2.539	3.496	4.9	21.5
3 12	11 42.33	− 2 9.1	2.508	3.497	1.8	21.2
3 22	11 35.58	− 1 3.6	2.508	3.498	2.1	21.3
4 1	11 29.25	+ 0 1.5	2.538	3.499	5.3	21.5
4 11	11 23.93	+ 1 1.3	2.596	3.499	8.3	21.7
4 21	11 20.05	+ 1 52.0	2.679	3.500	10.9	21.8
403876 2011 WH_{66}			3 15.0 151.°44		0.°5/14.5 18	
2 11	12 6.49	+ 1 4.3	1.900	2.733	13.3	22.4
2 21	12 0.50	+ 1 42.2	1.830	2.743	9.7	22.1
3 2	11 52.47	+ 2 31.6	1.784	2.751	5.6	21.9
3 12	11 43.20	+ 3 27.1	1.767	2.759	1.3	21.6
3 22	11 33.64	+ 4 22.3	1.779	2.767	3.4	21.8
4 1	11 24.83	+ 5 11.0	1.819	2.773	7.6	22.1
4 11	11 17.66	+ 5 48.0	1.886	2.779	11.4	22.3
4 21	11 12.66	+ 6 10.7	1.975	2.784	14.6	22.5
235394 2003 WX_{134}			3 15.0 88.°89		3.°4/11.3 18	
2 11	12 3.68	+10 41.8	2.136	2.989	11.3	20.7
2 21	11 58.15	+11 36.1	2.086	3.009	8.1	20.6
3 2	11 50.95	+12 32.3	2.062	3.029	5.0	20.4
3 12	11 42.81	+13 24.0	2.067	3.049	3.4	20.3
3 22	11 34.57	+14 5.6	2.100	3.069	5.3	20.5
4 1	11 27.07	+14 32.9	2.162	3.088	8.3	20.7
4 11	11 21.02	+14 44.0	2.249	3.107	11.2	20.9
4 21	11 16.85	+14 38.9	2.357	3.126	13.7	21.1
86999 2000 JG_{40}			3 15.0 292.°60		2.°3/17.0 17	
2 11	12 2.48	− 5 48.9	1.701	2.524	15.1	20.3
2 21	11 58.14	− 5 39.1	1.599	2.501	11.7	20.0
3 2	11 51.44	− 5 10.2	1.520	2.477	7.6	19.7
3 12	11 43.03	− 4 24.4	1.466	2.454	3.4	19.4
3 22	11 33.89	− 3 26.8	1.440	2.430	3.4	19.4
4 1	11 25.21	− 2 24.4	1.440	2.406	7.9	19.6
4 11	11 18.12	− 1 25.6	1.466	2.382	12.4	19.8
4 21	11 13.41	− 0 37.1	1.513	2.359	16.5	19.9
62764 2000 UL_{13}			3 15.0 137.°15		3.°5/19.8 18	
2 11	11 59.48	−13 19.5	2.690	3.457	11.7	19.4
2 21	11 55.00	−13 6.0	2.605	3.464	9.3	19.2
3 2	11 49.13	−12 35.8	2.543	3.470	6.8	19.0
3 12	11 42.40	−11 50.6	2.509	3.476	4.4	18.9
3 22	11 35.45	−10 53.5	2.504	3.482	3.6	18.8
4 1	11 28.94	− 9 49.4	2.528	3.488	5.3	19.0
4 11	11 23.48	− 8 43.5	2.580	3.494	7.9	19.1
4 21	11 19.51	− 7 41.1	2.658	3.499	10.3	19.3
179418 2002 AV_{19}			3 15.0 355.°49		5.°7/19.8 17	
2 11	12 2.04	−12 51.4	1.848	2.636	15.5	19.2
2 21	11 57.54	−13 35.5	1.763	2.632	12.6	19.0
3 2	11 50.91	−14 0.2	1.701	2.629	9.4	18.8
3 12	11 42.87	−14 4.7	1.662	2.626	6.6	18.6
3 22	11 34.33	−13 50.8	1.650	2.625	5.8	18.5
4 1	11 26.37	−13 22.6	1.665	2.624	7.7	18.7
4 11	11 19.96	−12 46.6	1.705	2.624	10.8	18.8
4 21	11 15.73	−12 9.7	1.767	2.624	14.0	19.0
27541 2000 JU_2			3 15.0 153.°80		6.°3/ 7.2 18	
2 11	12 2.48	+20 31.1	2.286	3.142	10.5	18.7
2 21	11 57.39	+21 49.1	2.231	3.144	8.2	18.6
3 2	11 50.59	+23 2.3	2.202	3.147	6.5	18.5
3 12	11 42.76	+24 3.4	2.202	3.150	6.5	18.5
3 22	11 34.72	+24 46.5	2.229	3.152	8.1	18.6
4 1	11 27.32	+25 8.1	2.282	3.154	10.4	18.7
4 11	11 21.29	+25 7.7	2.357	3.156	12.7	18.9
4 21	11 17.12	+24 47.0	2.453	3.158	14.8	19.1
303197 2004 GB_{29}			3 15.0 293.°53		1.°6/16.8 17	
2 11	11 59.62	− 5 42.3	2.226	3.040	12.3	20.8
2 21	11 55.56	− 5 11.3	2.114	3.012	9.4	20.5
3 2	11 49.70	− 4 23.8	2.026	2.983	6.0	20.3
3 12	11 42.60	− 3 22.4	1.965	2.953	2.5	20.0
3 22	11 34.97	− 2 12.0	1.934	2.924	2.7	19.9
4 1	11 27.67	− 0 58.6	1.931	2.895	6.4	20.1
4 11	11 21.51	+ 0 10.7	1.956	2.865	10.2	20.3
4 21	11 17.13	+ 1 10.5	2.003	2.835	13.6	20.5
385757 2005 YK_{32}			3 15.0 345.°03		3.°6/11.4 17	
2 11	12 0.71	+ 8 14.7	1.712	2.575	13.1	20.9
2 21	11 56.56	+ 9 26.9	1.643	2.573	9.4	20.7
3 2	11 50.31	+10 46.6	1.599	2.570	5.7	20.4
3 12	11 42.73	+12 5.1	1.583	2.568	3.6	20.3
3 22	11 34.79	+13 14.0	1.593	2.566	6.1	20.4
4 1	11 27.57	+14 6.0	1.630	2.565	9.9	20.7
4 11	11 21.97	+14 37.1	1.691	2.564	13.6	20.9
4 21	11 18.57	+14 46.2	1.771	2.563	16.7	21.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
221303 2005 UQ_{501}			3 15.0 180.°25		0.°3/14.6 16	
	h m	° ′			°	m
2 11	12 1.77	− 0 44.9	2.486	3.309	10.9	21.8
2 21	11 56.74	+ 0 18.6	2.403	3.311	8.0	21.6
3 2	11 50.19	+ 1 34.0	2.346	3.312	4.6	21.4
3 12	11 42.68	+ 2 56.1	2.320	3.312	1.0	21.1
3 22	11 34.90	+ 4 19.2	2.324	3.312	2.7	21.2
4 1	11 27.61	+ 5 37.1	2.359	3.311	6.3	21.4
4 11	11 21.46	+ 6 44.5	2.422	3.309	9.5	21.6
4 21	11 16.92	+ 7 38.1	2.509	3.306	12.2	21.8
418266 2008 EH_{33}			3 15.0 166.°48		0.°1/14.9 16	
2 11	12 2.69	− 0 35.7	1.773	2.611	13.9	21.7
2 21	11 57.93	+ 0 6.7	1.698	2.613	10.2	21.5
3 2	11 51.09	+ 1 3.6	1.646	2.614	6.0	21.2
3 12	11 42.92	+ 2 9.5	1.622	2.614	1.4	20.9
3 22	11 34.38	+ 3 17.4	1.626	2.615	3.3	21.1
4 1	11 26.54	+ 4 19.6	1.658	2.616	7.8	21.3
4 11	11 20.31	+ 5 10.0	1.715	2.616	11.9	21.6
4 21	11 16.27	+ 5 44.6	1.793	2.616	15.3	21.8
379684 2011 FB_{31}			3 15.0 337.°49		6.°2/ 9.8 17	
2 11	12 6.62	+17 40.0	1.769	2.629	12.9	20.6
2 21	12 0.82	+18 25.4	1.704	2.625	9.8	20.4
3 2	11 52.76	+19 7.0	1.664	2.622	7.0	20.2
3 12	11 43.31	+19 36.7	1.651	2.619	6.2	20.2
3 22	11 33.55	+19 48.3	1.665	2.616	8.2	20.3
4 1	11 24.65	+19 38.1	1.704	2.613	11.3	20.4
4 11	11 17.58	+19 6.0	1.767	2.611	14.4	20.6
4 21	11 12.91	+18 14.3	1.849	2.609	17.2	20.8
352706 2008 SF_{179}			3 15.0 72.°92		0.°3/15.3 18	
2 11	12 7.35	− 0 9.1	1.330	2.178	17.0	21.6
2 21	12 1.84	+ 0 3.3	1.266	2.185	12.6	21.4
3 2	11 53.55	+ 0 31.2	1.224	2.192	7.5	21.1
3 12	11 43.52	+ 1 9.5	1.208	2.200	1.9	20.8
3 22	11 33.08	+ 1 50.9	1.217	2.207	3.8	20.9
4 1	11 23.71	+ 2 27.4	1.252	2.215	9.2	21.2
4 11	11 16.59	+ 2 52.7	1.311	2.222	14.0	21.5
4 21	11 12.37	+ 3 3.1	1.389	2.230	18.0	21.8
340614 2006 QN_{66}			3 15.0 191.°09		2.°1/17.2 17	
2 11	12 3.85	− 5 24.5	2.394	3.198	11.9	20.9
2 21	11 58.35	− 5 32.3	2.307	3.197	9.1	20.7
3 2	11 51.18	− 5 28.1	2.245	3.197	5.9	20.5
3 12	11 42.93	− 5 13.5	2.211	3.196	2.9	20.3
3 22	11 34.37	− 4 51.5	2.207	3.195	2.8	20.3
4 1	11 26.30	− 4 26.0	2.232	3.194	5.8	20.5
4 11	11 19.45	− 4 1.5	2.285	3.192	9.0	20.7
4 21	11 14.34	− 3 41.5	2.362	3.191	11.9	20.9
116914 2004 GB_{14}			3 15.0 261.°30		0.°0/15.1 18	
2 11	11 58.50	− 1 49.5	2.484	3.309	10.8	20.1
2 21	11 54.47	− 0 51.9	2.387	3.296	8.0	19.8
3 2	11 48.93	+ 0 18.8	2.317	3.282	4.7	19.6
3 12	11 42.41	+ 1 38.3	2.275	3.267	1.1	19.3
3 22	11 35.55	+ 3 0.9	2.264	3.253	2.6	19.4
4 1	11 29.07	+ 4 20.3	2.282	3.238	6.1	19.6
4 11	11 23.65	+ 5 31.0	2.328	3.223	9.4	19.8
4 21	11 19.77	+ 6 28.8	2.398	3.208	12.3	20.0
522415 2016 CN_{311}			3 15.0 285.°80		1.°9/16.6 17	
2 11	12 3.95	− 4 2.0	1.766	2.591	14.5	21.5
2 21	11 59.06	− 4 0.6	1.674	2.578	11.1	21.3
3 2	11 51.89	− 3 43.4	1.605	2.564	7.0	21.0
3 12	11 43.15	− 3 13.1	1.561	2.550	2.9	20.7
3 22	11 33.84	− 2 34.2	1.546	2.536	3.2	20.7
4 1	11 25.07	− 1 52.8	1.558	2.522	7.6	20.9
4 11	11 17.91	− 1 15.5	1.595	2.509	11.8	21.1
4 21	11 13.06	− 0 47.5	1.655	2.495	15.6	21.3
336962 2011 JZ_{14}			3 15.1 356.°52		1.°8/12.9 17	
2 11	11 57.96	+ 1 44.2	1.771	2.624	13.2	20.1
2 21	11 54.50	+ 3 16.9	1.698	2.623	9.5	19.9
3 2	11 49.09	+ 5 4.6	1.650	2.622	5.4	19.6
3 12	11 42.46	+ 6 58.9	1.629	2.621	1.9	19.4
3 22	11 35.48	+ 8 50.0	1.638	2.620	4.6	19.6
4 1	11 29.14	+10 28.4	1.674	2.620	8.8	19.8
4 11	11 24.28	+11 47.0	1.735	2.621	12.6	20.0
4 21	11 21.45	+12 42.6	1.817	2.621	15.9	20.3
388597 2007 RY_{179}			3 15.1 106.°05		4.°0/10.7 17	
2 11	12 3.36	+13 30.3	2.290	3.143	10.6	21.1
2 21	11 57.94	+14 16.4	2.229	3.151	7.8	20.9
3 2	11 50.88	+15 2.5	2.195	3.158	5.1	20.7
3 12	11 42.86	+15 42.5	2.189	3.166	4.0	20.7
3 22	11 34.65	+16 11.6	2.212	3.173	5.7	20.8
4 1	11 27.10	+16 26.1	2.263	3.180	8.5	21.0
4 11	11 20.90	+16 24.5	2.339	3.187	11.2	21.2
4 21	11 16.49	+16 7.2	2.436	3.194	13.6	21.3

27972 1997 TA_{18} 3 15.1 102°.67 1°.3/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 1.90	− 5 49.9	1.949	2.766	13.7	18.8
2 21	11 57.09	− 4 55.0	1.883	2.783	10.3	18.7
3 2	11 50.46	− 3 42.4	1.842	2.800	6.3	18.5
3 12	11 42.76	− 2 17.2	1.828	2.817	2.3	18.2
3 22	11 34.87	− 0 46.7	1.843	2.833	2.7	18.3
4 1	11 27.69	+ 0 41.1	1.887	2.849	6.7	18.6
4 11	11 21.99	+ 1 59.2	1.958	2.865	10.3	18.8
4 21	11 18.25	+ 3 2.9	2.053	2.880	13.5	19.0

224479 2005 VA_{83} 3 15.1 355°.83 2°.7/17.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.45	− 8 21.9	1.617	2.438	15.8	20.1
2 21	11 55.79	− 7 52.1	1.538	2.436	12.2	19.9
3 2	11 49.95	− 6 58.9	1.481	2.435	8.1	19.7
3 12	11 42.68	− 5 46.1	1.449	2.434	3.9	19.4
3 22	11 34.99	− 4 20.6	1.444	2.433	3.5	19.4
4 1	11 27.99	− 2 51.6	1.465	2.433	7.5	19.6
4 11	11 22.66	− 1 28.5	1.512	2.434	11.8	19.8
4 21	11 19.61	− 0 18.6	1.580	2.434	15.5	20.1

367788 2011 AL_{3} 3 15.1 155°.01 5°.5/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.88	+15 24.1	1.919	2.778	12.1	20.9
2 21	11 59.38	+16 40.5	1.861	2.783	9.0	20.7
3 2	11 51.86	+17 56.1	1.828	2.787	6.3	20.5
3 12	11 43.11	+19 2.4	1.822	2.791	5.7	20.5
3 22	11 34.11	+19 52.3	1.845	2.794	7.6	20.6
4 1	11 25.87	+20 20.8	1.894	2.798	10.6	20.8
4 11	11 19.28	+20 26.6	1.967	2.801	13.6	21.0
4 21	11 14.84	+20 10.9	2.059	2.803	16.2	21.2

312980 1999 RK_{60} 3 15.1 118°.79 3°.5/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.20	+ 8 18.4	1.930	2.781	12.4	20.3
2 21	11 59.45	+ 9 45.4	1.879	2.802	8.9	20.1
3 2	11 51.81	+11 17.5	1.854	2.822	5.3	19.9
3 12	11 43.08	+12 46.4	1.858	2.841	3.5	19.8
3 22	11 34.21	+14 3.9	1.891	2.860	5.7	20.0
4 1	11 26.15	+15 4.0	1.953	2.878	9.1	20.3
4 11	11 19.71	+15 43.6	2.039	2.895	12.3	20.5
4 21	11 15.34	+16 2.3	2.147	2.911	15.0	20.7

195521 2002 JV_{16} 3 15.1 342°.45 0°.3/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 56.72	− 1 42.1	1.468	2.323	15.3	18.9
2 21	11 53.99	− 0 37.9	1.389	2.313	11.3	18.6
3 2	11 48.99	+ 0 47.2	1.333	2.303	6.6	18.3
3 12	11 42.47	+ 2 26.2	1.302	2.295	1.5	18.0
3 22	11 35.47	+ 4 8.9	1.297	2.287	3.9	18.1
4 1	11 29.15	+ 5 44.3	1.319	2.280	9.0	18.4
4 11	11 24.55	+ 7 3.0	1.364	2.275	13.6	18.6
4 21	11 22.32	+ 7 59.4	1.429	2.270	17.6	18.9

150071 2006 SZ_{110} 3 15.1 235°.09 1°.3/13.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.71	+ 4 14.9	2.683	3.520	9.8	21.0
2 21	11 55.97	+ 4 58.8	2.591	3.508	7.1	20.8
3 2	11 49.77	+ 5 49.8	2.526	3.495	4.0	20.6
3 12	11 42.63	+ 6 43.7	2.491	3.482	1.4	20.4
3 22	11 35.19	+ 7 35.7	2.485	3.468	3.2	20.5
4 1	11 28.13	+ 8 21.2	2.510	3.454	6.4	20.7
4 11	11 22.08	+ 8 56.6	2.562	3.440	9.3	20.8
4 21	11 17.53	+ 9 19.6	2.637	3.425	11.9	21.0

135272 2001 SK_{122} 3 15.1 99°.82 1°.9/17.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.82	− 7 36.7	2.371	3.174	12.0	19.8
2 21	11 55.36	− 7 1.7	2.298	3.187	9.2	19.6
3 2	11 49.39	− 6 11.1	2.249	3.200	6.0	19.5
3 12	11 42.53	− 5 8.5	2.227	3.212	2.8	19.3
3 22	11 35.47	− 3 58.7	2.236	3.225	2.5	19.3
4 1	11 28.96	− 2 47.4	2.273	3.237	5.6	19.5
4 11	11 23.63	− 1 40.7	2.339	3.249	8.7	19.7
4 21	11 19.92	− 0 42.9	2.429	3.261	11.5	19.9

99623 2002 GZ_{88} 3 15.1 178°.29 3°.4/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.90	+ 9 8.1	2.014	2.870	11.7	19.7
2 21	11 57.16	+10 13.7	1.945	2.870	8.5	19.5
3 2	11 50.57	+11 24.3	1.902	2.870	5.1	19.3
3 12	11 42.83	+12 32.8	1.886	2.870	3.4	19.2
3 22	11 34.80	+13 32.3	1.900	2.870	5.5	19.3
4 1	11 27.40	+14 17.1	1.941	2.870	8.9	19.5
4 11	11 21.44	+14 43.7	2.006	2.870	12.2	19.7
4 21	11 17.43	+14 51.5	2.093	2.870	14.9	19.9

317376 2002 NS_{74} 3 15.1 208°.71 2°.7/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.74	− 7 47.9	2.250	3.049	12.7	21.0
2 21	11 57.68	− 7 47.1	2.161	3.047	9.9	20.8
3 2	11 50.86	− 7 31.2	2.097	3.044	6.6	20.6
3 12	11 42.91	− 7 1.9	2.060	3.041	3.5	20.4
3 22	11 34.60	− 6 22.8	2.051	3.038	3.2	20.4
4 1	11 26.78	− 5 38.6	2.072	3.035	6.1	20.6
4 11	11 20.25	− 4 54.9	2.119	3.031	9.4	20.8
4 21	11 15.52	− 4 16.5	2.191	3.028	12.4	20.9

68769 2002 ER_{110} 3 15.1 291°.25 2°.9/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 59.73	+ 5 43.0	1.838	2.696	12.6	19.3
2 21	11 55.80	+ 7 6.7	1.760	2.687	9.1	19.1
3 2	11 49.89	+ 8 41.1	1.708	2.679	5.3	18.8
3 12	11 42.69	+10 18.2	1.683	2.671	2.9	18.7
3 22	11 35.09	+11 48.9	1.686	2.662	5.4	18.8
4 1	11 28.07	+13 5.1	1.717	2.654	9.3	19.0
4 11	11 22.52	+14 1.2	1.772	2.646	13.0	19.2
4 21	11 19.04	+14 34.9	1.848	2.638	16.2	19.4

120603 1995 VN_{4} 3 15.1 205°.48 2°.0/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.14	+ 6 37.7	2.599	3.438	10.0	21.7
2 21	11 57.74	+ 7 26.3	2.514	3.431	7.2	21.5
3 2	11 50.80	+ 8 20.5	2.456	3.425	4.2	21.3
3 12	11 42.88	+ 9 15.4	2.428	3.417	2.0	21.1
3 22	11 34.67	+10 5.9	2.431	3.409	3.8	21.2
4 1	11 26.91	+10 47.6	2.463	3.400	6.9	21.4
4 11	11 20.27	+11 17.1	2.523	3.390	9.9	21.6
4 21	11 15.21	+11 32.9	2.605	3.380	12.4	21.8

88393 2001 QK_{14} 3 15.1 76°.05 1°.0/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.15	+ 0 15.3	1.675	2.520	14.3	18.6
2 21	11 57.45	+ 1 32.2	1.622	2.542	10.3	18.4
3 2	11 50.73	+ 3 3.3	1.594	2.563	5.8	18.2
3 12	11 42.86	+ 4 40.3	1.592	2.585	1.4	18.0
3 22	11 34.83	+ 6 14.2	1.620	2.606	3.9	18.2
4 1	11 27.66	+ 7 36.2	1.675	2.627	8.3	18.5
4 11	11 22.20	+ 8 40.4	1.755	2.648	12.1	18.8
4 21	11 18.91	+ 9 24.1	1.856	2.669	15.3	19.0

100858 1998 HB_{44} 3 15.1 295°.71 4°.0/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.42	+13 23.5	2.205	3.059	10.9	19.4
2 21	11 58.20	+14 2.3	2.125	3.047	8.0	19.2
3 2	11 51.17	+14 41.6	2.072	3.036	5.3	19.0
3 12	11 42.99	+15 15.4	2.046	3.024	4.0	18.9
3 22	11 34.47	+15 38.6	2.049	3.013	5.9	19.0
4 1	11 26.51	+15 47.0	2.080	3.002	8.9	19.2
4 11	11 19.90	+15 39.0	2.136	2.990	11.9	19.3
4 21	11 15.19	+15 14.6	2.213	2.979	14.5	19.5

462135 2007 RU_{315} 3 15.1 120°.39 0°.1/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.23	+ 0 13.4	1.743	2.576	14.4	21.7
2 21	12 1.89	+ 0 33.0	1.679	2.591	10.6	21.5
3 2	11 53.35	+ 1 4.7	1.639	2.605	6.2	21.2
3 12	11 43.51	+ 1 43.8	1.627	2.619	1.5	20.9
3 22	11 33.41	+ 2 24.2	1.643	2.632	3.3	21.1
4 1	11 24.21	+ 3 0.0	1.687	2.645	7.7	21.4
4 11	11 16.82	+ 3 26.1	1.757	2.657	11.7	21.7
4 21	11 11.80	+ 3 39.8	1.849	2.669	15.1	21.9

375974 2009 WK_{223} 3 15.1 157°.04 0°.4/15.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.43	− 1 34.4	2.100	2.927	12.5	22.1
2 21	11 57.47	− 1 0.2	2.023	2.931	9.2	21.9
3 2	11 50.74	− 0 13.2	1.970	2.934	5.5	21.7
3 12	11 42.89	+ 0 42.2	1.946	2.938	1.5	21.4
3 22	11 34.76	+ 1 40.5	1.951	2.940	2.7	21.5
4 1	11 27.21	+ 2 35.6	1.984	2.943	6.7	21.7
4 11	11 21.03	+ 3 22.1	2.045	2.945	10.3	22.0
4 21	11 16.74	+ 3 56.6	2.128	2.947	13.3	22.2

272829 2006 AL_{100} 3 15.1 5°.61 0°.6/15.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.14	− 0 25.2	1.569	2.414	15.1	20.5
2 21	11 58.51	− 0 19.1	1.497	2.414	11.2	20.3
3 2	11 51.56	+ 0 0.7	1.448	2.415	6.7	20.0
3 12	11 43.12	+ 0 29.9	1.424	2.416	1.8	19.7
3 22	11 34.28	+ 1 2.8	1.427	2.418	3.3	19.8
4 1	11 26.22	+ 1 33.0	1.457	2.420	8.1	20.1
4 11	11 19.96	+ 1 54.9	1.511	2.424	12.4	20.4
4 21	11 16.14	+ 2 4.7	1.586	2.427	16.1	20.6

363353 2002 RM_{21} 3 15.1 184°.67 0°.6/14.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.85	+ 1 50.2	2.134	2.965	12.2	21.9
2 21	11 59.97	+ 2 21.3	2.054	2.965	8.9	21.7
3 2	11 52.21	+ 3 2.1	1.998	2.965	5.1	21.5
3 12	11 43.26	+ 3 48.0	1.972	2.964	1.2	21.2
3 22	11 33.98	+ 4 33.7	1.975	2.963	3.2	21.4
4 1	11 25.29	+ 5 13.9	2.008	2.960	7.1	21.6
4 11	11 18.03	+ 5 44.0	2.068	2.957	10.7	21.8
4 21	11 12.73	+ 6 1.6	2.150	2.954	13.7	22.0

124460 2001 QM_{292} 3 15.1 139°.29 0°.9/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.00	+ 2 33.8	1.746	2.583	14.1	19.9
2 21	12 2.48	+ 3 1.7	1.680	2.595	10.3	19.7
3 2	11 53.73	+ 3 39.8	1.638	2.606	5.9	19.4
3 12	11 43.62	+ 4 22.7	1.624	2.616	1.4	19.1
3 22	11 33.23	+ 5 4.0	1.639	2.626	3.7	19.3
4 1	11 23.73	+ 5 37.6	1.682	2.635	8.2	19.6
4 11	11 16.06	+ 5 59.3	1.751	2.644	12.2	19.9
4 21	11 10.79	+ 6 6.8	1.842	2.651	15.5	20.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
246622 2008 WO_{59}			3 15.1	59°.67	5°.6/ 9.0	18
	h m	° ′			°	m
2 11	12 2.38	+16 2.1	1.951	2.813	11.8	20.0
2 21	11 57.54	+17 16.0	1.896	2.819	8.8	19.8
3 2	11 50.79	+18 28.4	1.866	2.825	6.3	19.7
3 12	11 42.91	+19 31.0	1.864	2.831	5.7	19.7
3 22	11 34.81	+20 17.2	1.889	2.837	7.6	19.8
4 1	11 27.44	+20 42.5	1.940	2.843	10.5	20.0
4 11	11 21.63	+20 45.6	2.015	2.849	13.3	20.2
4 21	11 17.85	+20 27.7	2.109	2.855	15.8	20.4
182547 2001 TK_{83}			3 15.1	229°.91	3°.6/18.8	17
2 11	12 1.45	−11 16.9	1.891	2.687	14.9	20.6
2 21	11 57.06	−10 55.1	1.803	2.682	11.8	20.3
3 2	11 50.65	−10 10.8	1.736	2.678	8.2	20.1
3 12	11 42.91	− 9 6.1	1.696	2.673	4.8	19.9
3 22	11 34.74	− 7 46.3	1.683	2.669	3.9	19.8
4 1	11 27.14	− 6 19.0	1.698	2.664	6.9	20.0
4 11	11 21.02	− 4 52.9	1.740	2.659	10.7	20.2
4 21	11 17.01	− 3 35.4	1.805	2.654	14.1	20.4
294203 2007 TQ_{430}			3 15.1	50°.01	3°.8/19.5	17
2 11	11 59.41	−12 35.8	2.094	2.880	14.0	20.9
2 21	11 55.33	−12 16.9	2.013	2.885	11.1	20.7
3 2	11 49.52	−11 37.2	1.955	2.890	7.9	20.5
3 12	11 42.62	−10 38.9	1.923	2.896	4.9	20.3
3 22	11 35.43	− 9 26.4	1.918	2.901	4.0	20.3
4 1	11 28.81	− 8 6.4	1.942	2.907	6.3	20.4
4 11	11 23.51	− 6 46.5	1.993	2.913	9.5	20.6
4 21	11 20.05	− 5 33.2	2.068	2.919	12.5	20.8
373427 1999 RB_{252}			3 15.1	147°.30	2°.7/18.4	17 R
2 11	12 2.86	− 9 32.1	2.547	3.331	11.8	21.9
2 21	11 57.51	− 9 17.5	2.467	3.342	9.2	21.7
3 2	11 50.66	− 8 47.8	2.411	3.352	6.3	21.5
3 12	11 42.88	− 8 5.1	2.383	3.361	3.5	21.4
3 22	11 34.87	− 7 13.1	2.385	3.370	3.0	21.3
4 1	11 27.37	− 6 16.6	2.417	3.379	5.4	21.5
4 11	11 21.04	− 5 20.9	2.477	3.386	8.3	21.7
4 21	11 16.33	− 4 30.6	2.562	3.393	11.0	21.9
29715 1999 AW_{7}			3 15.1	165°.25	7°.0/ 7.0	18
2 11	12 5.09	+20 38.8	2.036	2.892	11.6	18.4
2 21	11 59.51	+22 10.5	1.983	2.896	9.1	18.2
3 2	11 51.96	+23 37.0	1.956	2.899	7.3	18.1
3 12	11 43.19	+24 49.3	1.956	2.902	7.3	18.1
3 22	11 34.18	+25 40.6	1.984	2.905	9.1	18.2
4 1	11 25.92	+26 6.8	2.037	2.907	11.6	18.4
4 11	11 19.26	+26 7.5	2.113	2.909	14.1	18.5
4 21	11 14.72	+25 45.2	2.207	2.910	16.3	18.7
264617 2001 UJ_{220}			3 15.1	155°.90	0°.9/14.2	16
2 11	12 4.47	+ 2 26.0	2.147	2.982	11.9	22.0
2 21	11 58.90	+ 3 3.2	2.074	2.988	8.7	21.8
3 2	11 51.54	+ 3 49.6	2.027	2.995	5.0	21.5
3 12	11 43.10	+ 4 40.1	2.008	3.000	1.2	21.3
3 22	11 34.39	+ 5 29.4	2.019	3.005	3.3	21.4
4 1	11 26.32	+ 6 12.0	2.059	3.010	7.1	21.7
4 11	11 19.64	+ 6 43.8	2.126	3.014	10.5	21.9
4 21	11 14.86	+ 7 2.3	2.215	3.018	13.4	22.1
204645 2006 BE_{38}			3 15.1	122°.87	3°.4/12.1	18
2 11	12 5.26	+ 6 47.7	1.540	2.399	14.5	20.6
2 21	12 0.01	+ 8 2.0	1.481	2.408	10.5	20.3
3 2	11 52.38	+ 9 25.2	1.446	2.417	6.1	20.1
3 12	11 43.31	+10 47.9	1.438	2.426	3.4	19.9
3 22	11 33.95	+12 0.5	1.457	2.434	6.0	20.1
4 1	11 25.51	+12 55.2	1.503	2.442	10.3	20.4
4 11	11 19.00	+13 27.8	1.572	2.449	14.2	20.6
4 21	11 15.01	+13 37.6	1.661	2.456	17.5	20.9
340699 2006 SM_{21}			3 15.1	129°.51	0°.5/15.8	18
2 11	12 0.89	− 2 6.3	2.864	3.678	9.9	21.3
2 21	11 55.89	− 1 38.7	2.791	3.692	7.3	21.1
3 2	11 49.63	− 1 1.8	2.745	3.706	4.4	20.9
3 12	11 42.63	− 0 18.7	2.728	3.719	1.3	20.7
3 22	11 35.46	+ 0 26.8	2.741	3.731	2.0	20.8
4 1	11 28.76	+ 1 10.7	2.785	3.744	5.0	21.0
4 11	11 23.06	+ 1 49.3	2.858	3.755	7.8	21.2
4 21	11 18.75	+ 2 19.9	2.955	3.767	10.2	21.4
389272 2009 HP_{4}			3 15.1	279°.44	0°.1/15.3	17
2 11	11 58.08	− 2 21.6	2.331	3.158	11.4	21.2
2 21	11 54.24	− 1 22.7	2.242	3.151	8.4	21.0
3 2	11 48.85	− 0 10.0	2.180	3.144	5.0	20.8
3 12	11 42.47	+ 1 12.0	2.145	3.137	1.3	20.5
3 22	11 35.78	+ 2 37.2	2.141	3.130	2.6	20.6
4 1	11 29.53	+ 3 58.9	2.166	3.123	6.3	20.8
4 11	11 24.41	+ 5 11.2	2.218	3.116	9.7	21.0
4 21	11 20.90	+ 6 9.9	2.293	3.109	12.6	21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
401128 2011 US_{306}			3 15.1	90°.99	1°.7/16.5	18
	h m	° ′			°	m
2 11	12 4.54	− 4 48.8	1.467	2.300	16.6	20.9
2 21	11 59.62	− 4 22.1	1.400	2.308	12.5	20.7
3 2	11 52.23	− 3 34.8	1.356	2.317	7.8	20.4
3 12	11 43.29	− 2 31.8	1.337	2.326	2.9	20.2
3 22	11 33.99	− 1 20.8	1.344	2.335	3.4	20.2
4 1	11 25.60	− 0 10.9	1.378	2.343	8.2	20.5
4 11	11 19.19	+ 0 49.5	1.436	2.352	12.7	20.8
4 21	11 15.36	+ 1 34.7	1.516	2.360	16.6	21.1
202349 2005 EK_{172}			3 15.1	327°.39	2°.8/17.4	17
2 11	12 2.23	− 5 55.8	1.764	2.585	14.7	19.8
2 21	11 57.80	− 6 7.7	1.674	2.573	11.4	19.6
3 2	11 51.18	− 6 3.1	1.607	2.562	7.5	19.3
3 12	11 43.06	− 5 43.8	1.566	2.551	3.8	19.1
3 22	11 34.40	− 5 13.6	1.551	2.540	3.5	19.0
4 1	11 26.30	− 4 37.9	1.564	2.530	7.3	19.2
4 11	11 19.77	− 4 3.4	1.602	2.521	11.4	19.4
4 21	11 15.48	− 3 35.4	1.661	2.512	15.1	19.6
392183 2009 PA			3 15.1	296°.83	5°.1/19.5	16
2 11	12 5.60	−13 20.8	2.442	3.204	12.9	20.6
2 21	11 59.97	−14 4.7	2.321	3.173	10.6	20.4
3 2	11 52.39	−14 34.1	2.223	3.142	8.1	20.2
3 12	11 43.37	−14 47.9	2.152	3.111	5.8	20.0
3 22	11 33.65	−14 46.4	2.110	3.079	5.2	19.9
4 1	11 24.12	−14 31.8	2.097	3.048	6.9	19.9
4 11	11 15.71	−14 8.6	2.111	3.016	9.8	20.1
4 21	11 9.08	−13 42.0	2.149	2.984	12.7	20.2
520989 2015 AP_{286}			3 15.1	190°.35	2°.6/17.8	17
2 11	12 2.34	− 7 47.6	2.121	2.924	13.2	21.8
2 21	11 57.47	− 7 37.2	2.036	2.924	10.2	21.6
3 2	11 50.79	− 7 10.3	1.974	2.923	6.8	21.4
3 12	11 42.94	− 6 29.1	1.939	2.922	3.5	21.2
3 22	11 34.74	− 5 37.9	1.933	2.921	3.1	21.2
4 1	11 27.08	− 4 42.3	1.956	2.920	6.3	21.4
4 11	11 20.76	− 3 48.6	2.005	2.919	9.8	21.6
4 21	11 16.34	− 3 1.9	2.078	2.917	12.9	21.8
304011 2006 CQ_{61}			3 15.1	334°.24	4°.0/12.4	18
2 11	12 3.89	+ 8 11.2	1.175	2.051	16.8	19.9
2 21	11 59.81	+ 8 54.2	1.106	2.041	12.3	19.6
3 2	11 52.67	+ 9 46.3	1.058	2.031	7.3	19.3
3 12	11 43.45	+10 37.6	1.033	2.022	4.0	19.1
3 22	11 33.59	+11 18.1	1.033	2.014	7.0	19.2
4 1	11 24.70	+11 39.2	1.057	2.007	12.2	19.5
4 11	11 18.19	+11 36.5	1.101	2.000	17.1	19.7
4 21	11 14.83	+11 10.1	1.162	1.995	21.3	20.0
470376 2007 TG_{176}			3 15.1	203°.86	4°.1/20.4	17
2 11	11 59.88	−15 3.5	2.522	3.283	12.6	21.8
2 21	11 55.49	−14 43.5	2.427	3.279	10.2	21.7
3 2	11 49.56	−14 3.9	2.354	3.276	7.5	21.5
3 12	11 42.64	−13 6.3	2.308	3.272	5.0	21.3
3 22	11 35.42	−11 54.1	2.291	3.268	4.1	21.2
4 1	11 28.62	−10 32.6	2.304	3.264	5.8	21.3
4 11	11 22.95	− 9 8.5	2.344	3.259	8.5	21.5
4 21	11 18.86	− 7 48.1	2.410	3.254	11.2	21.7
69183 6638 $P–L$			3 15.1	244°.59	1°.4/13.7	17
2 11	12 3.78	+ 4 4.6	2.207	3.046	11.5	20.5
2 21	11 58.53	+ 4 42.6	2.114	3.031	8.4	20.3
3 2	11 51.44	+ 5 29.1	2.047	3.016	4.8	20.1
3 12	11 43.12	+ 6 19.3	2.008	3.000	1.5	19.8
3 22	11 34.36	+ 7 7.6	1.999	2.983	3.7	19.9
4 1	11 26.06	+ 7 48.6	2.019	2.967	7.4	20.1
4 11	11 19.06	+ 8 18.0	2.066	2.949	11.0	20.3
4 21	11 13.92	+ 8 33.3	2.134	2.932	14.1	20.5
522554 2016 EL_{241}			3 15.1	252°.67	0°.1/15.1	17
2 11	12 3.92	− 0 12.9	1.892	2.726	13.3	22.0
2 21	11 58.89	+ 0 14.5	1.802	2.715	9.9	21.8
3 2	11 51.76	+ 0 54.9	1.736	2.703	5.9	21.5
3 12	11 43.21	+ 1 44.1	1.698	2.690	1.4	21.2
3 22	11 34.17	+ 2 36.2	1.688	2.678	3.2	21.3
4 1	11 25.67	+ 3 24.6	1.706	2.665	7.6	21.5
4 11	11 18.67	+ 4 3.7	1.750	2.651	11.7	21.7
4 21	11 13.82	+ 4 29.5	1.816	2.638	15.2	21.9
371074 2005 US_{307}			3 15.1	76°.17	0°.6/14.5	18
2 11	12 3.64	+ 1 32.2	1.771	2.614	13.7	21.6
2 21	11 58.62	+ 2 2.8	1.702	2.619	10.0	21.4
3 2	11 51.52	+ 2 45.0	1.656	2.625	5.8	21.2
3 12	11 43.13	+ 3 33.2	1.637	2.630	1.3	20.9
3 22	11 34.43	+ 4 21.2	1.647	2.635	3.5	21.0
4 1	11 26.47	+ 5 2.7	1.684	2.640	7.9	21.3
4 11	11 20.16	+ 5 32.6	1.746	2.646	11.8	21.5
4 21	11 16.04	+ 5 48.1	1.830	2.651	15.1	21.8

166634 2002 SR_{32} 3 15.1 216°.28 1°.5/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 0.39	− 6 0.0	2.562	3.367	11.2	21.3
2 21	11 55.82	− 5 25.7	2.468	3.360	8.5	21.1
3 2	11 49.75	− 4 37.3	2.398	3.352	5.4	20.9
3 12	11 42.71	− 3 37.8	2.357	3.345	2.3	20.6
3 22	11 35.36	− 2 31.6	2.347	3.336	2.3	20.6
4 1	11 28.42	− 1 24.1	2.366	3.328	5.5	20.8
4 11	11 22.54	− 0 20.7	2.413	3.319	8.7	21.0
4 21	11 18.21	+ 0 34.3	2.485	3.309	11.5	21.2

272946 2006 BL_{279} 3 15.1 244°.50 1°.0/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.14	+ 2 1.1	2.009	2.851	12.3	20.7
2 21	11 56.67	+ 2 51.1	1.929	2.848	9.0	20.5
3 2	11 50.36	+ 3 52.4	1.875	2.844	5.1	20.3
3 12	11 42.87	+ 4 59.3	1.848	2.840	1.3	20.0
3 22	11 35.03	+ 6 5.2	1.850	2.837	3.6	20.1
4 1	11 27.76	+ 7 3.6	1.881	2.833	7.6	20.4
4 11	11 21.88	+ 7 49.3	1.937	2.829	11.2	20.6
4 21	11 17.91	+ 8 19.2	2.015	2.825	14.3	20.8

141898 2002 PC_{62} 3 15.1 166°.87 1°.3/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.86	+ 3 19.5	2.163	2.999	11.8	21.3
2 21	11 59.20	+ 4 9.5	2.089	3.004	8.6	21.1
3 2	11 51.75	+ 5 8.5	2.041	3.009	4.9	20.9
3 12	11 43.19	+ 6 10.9	2.022	3.013	1.5	20.6
3 22	11 34.36	+ 7 10.7	2.033	3.017	3.6	20.8
4 1	11 26.15	+ 8 2.1	2.073	3.020	7.3	21.0
4 11	11 19.33	+ 8 40.7	2.140	3.022	10.8	21.2
4 21	11 14.41	+ 9 4.5	2.230	3.023	13.7	21.4

494894 2008 UO_{22} 3 15.1 60°.86 4°.0/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.50	+ 9 17.9	1.241	2.108	16.8	21.1
2 21	12 3.40	+ 9 54.7	1.194	2.124	12.1	20.9
3 2	11 54.44	+10 36.2	1.169	2.140	7.2	20.6
3 12	11 43.83	+11 13.2	1.169	2.157	4.0	20.5
3 22	11 33.06	+11 37.4	1.195	2.173	6.7	20.7
4 1	11 23.64	+11 43.4	1.245	2.190	11.3	21.0
4 11	11 16.71	+11 29.1	1.318	2.207	15.6	21.3
4 21	11 12.80	+10 56.0	1.409	2.224	19.1	21.6

372436 2009 SK_{53} 3 15.1 207°.98 1°.1/16.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.64	− 3 46.9	2.227	3.042	12.3	22.0
2 21	11 58.38	− 3 21.8	2.137	3.036	9.3	21.8
3 2	11 51.33	− 2 42.8	2.071	3.030	5.7	21.5
3 12	11 43.11	− 1 53.4	2.034	3.024	2.1	21.3
3 22	11 34.52	− 0 58.3	2.026	3.017	2.6	21.3
4 1	11 26.42	− 0 3.1	2.048	3.009	6.3	21.5
4 11	11 19.61	+ 0 46.5	2.097	3.001	9.9	21.7
4 21	11 14.63	+ 1 26.4	2.170	2.992	13.0	21.9

501127 2013 TO_{31} 3 15.1 168°.57 1°.3/16.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.81	− 3 34.5	2.167	2.983	12.5	21.8
2 21	11 58.48	− 3 19.9	2.086	2.986	9.4	21.6
3 2	11 51.36	− 2 52.2	2.030	2.988	5.9	21.4
3 12	11 43.12	− 2 14.5	2.001	2.990	2.2	21.1
3 22	11 34.56	− 1 31.3	2.001	2.992	2.6	21.2
4 1	11 26.57	− 0 47.9	2.031	2.993	6.3	21.4
4 11	11 19.93	− 0 9.3	2.088	2.994	9.8	21.6
4 21	11 15.16	+ 0 20.5	2.168	2.994	12.9	21.8

193669 2001 DV_{66} 3 15.1 48°.21 1°.2/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.05	+ 2 25.8	1.850	2.698	13.0	20.1
2 21	11 56.67	+ 3 17.8	1.781	2.702	9.4	19.8
3 2	11 50.37	+ 4 21.1	1.736	2.706	5.4	19.6
3 12	11 42.88	+ 5 29.3	1.719	2.711	1.5	19.3
3 22	11 35.10	+ 6 35.4	1.730	2.715	3.8	19.5
4 1	11 27.99	+ 7 32.4	1.768	2.720	7.9	19.8
4 11	11 22.39	+ 8 15.1	1.832	2.725	11.7	20.0
4 21	11 18.83	+ 8 41.0	1.917	2.730	14.8	20.2

298841 2004 RM_{188} 3 15.1 162°.73 3°.6/18.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.57	− 9 33.7	1.799	2.596	15.4	21.1
2 21	12 0.85	− 9 30.2	1.719	2.602	12.1	20.9
3 2	11 52.90	− 9 6.3	1.662	2.606	8.3	20.7
3 12	11 43.51	− 8 23.9	1.631	2.610	4.6	20.4
3 22	11 33.70	− 7 27.5	1.628	2.614	4.0	20.4
4 1	11 24.60	− 6 24.3	1.653	2.617	7.3	20.6
4 11	11 17.21	− 5 21.9	1.704	2.619	11.1	20.8
4 21	11 12.15	− 4 27.1	1.779	2.620	14.6	21.1

104439 2000 FW_{73} 3 15.1 217°.71 6°.0/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.86	+17 55.9	2.095	2.955	11.1	19.5
2 21	11 57.15	+19 19.0	2.035	2.955	8.5	19.3
3 2	11 50.60	+20 39.5	2.002	2.954	6.4	19.2
3 12	11 42.93	+21 49.5	1.996	2.954	6.2	19.1
3 22	11 34.99	+22 42.2	2.017	2.953	8.0	19.2
4 1	11 27.70	+23 13.0	2.065	2.952	10.7	19.4
4 11	11 21.84	+23 20.8	2.135	2.952	13.3	19.6
4 21	11 17.92	+23 6.7	2.225	2.951	15.6	19.7

17443 1989 UU_5 3 15.1 84°.41 2°.6/18.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 58.54	−10 17.0	2.359	3.151	12.4	18.3
2 21	11 54.53	− 9 37.5	2.278	3.158	9.6	18.1
3 2	11 49.00	− 8 40.1	2.221	3.165	6.5	17.9
3 12	11 42.55	− 7 27.8	2.192	3.172	3.5	17.7
3 22	11 35.86	− 6 5.7	2.191	3.179	2.9	17.7
4 1	11 29.68	− 4 40.1	2.221	3.186	5.6	17.9
4 11	11 24.66	− 3 17.7	2.278	3.193	8.7	18.1
4 21	11 21.25	− 2 3.9	2.360	3.200	11.5	18.3

502040 2015 AS_{133} 3 15.1 140°.23 3°.1/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.62	+ 8 23.2	2.026	2.879	11.8	21.6
2 21	11 57.67	+ 9 27.9	1.961	2.885	8.5	21.4
3 2	11 50.90	+10 38.1	1.921	2.890	5.1	21.2
3 12	11 43.01	+11 46.6	1.909	2.895	3.1	21.1
3 22	11 34.86	+12 46.6	1.927	2.899	5.2	21.3
4 1	11 27.37	+13 32.5	1.972	2.904	8.6	21.5
4 11	11 21.33	+14 0.8	2.042	2.908	11.9	21.7
4 21	11 17.23	+14 10.9	2.133	2.912	14.6	21.9

472553 2015 DD_{41} 3 15.1 128°.10 3°.9/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.73	+10 42.4	2.156	3.014	11.0	21.1
2 21	11 56.22	+12 4.8	2.094	3.019	8.0	20.9
3 2	11 50.02	+13 30.8	2.057	3.024	5.0	20.7
3 12	11 42.80	+14 52.9	2.050	3.029	3.9	20.6
3 22	11 35.33	+16 4.1	2.071	3.034	5.9	20.8
4 1	11 28.45	+16 58.8	2.120	3.038	8.9	20.9
4 11	11 22.91	+17 34.0	2.194	3.043	11.8	21.1
4 21	11 19.17	+17 49.2	2.289	3.047	14.4	21.3

151858 2003 HD_{15} 3 15.1 276°.96 1°.8/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.14	+ 3 26.4	1.812	2.663	13.1	20.0
2 21	11 56.87	+ 4 29.7	1.734	2.658	9.5	19.7
3 2	11 50.58	+ 5 44.7	1.682	2.653	5.4	19.5
3 12	11 42.97	+ 7 4.6	1.656	2.647	1.9	19.2
3 22	11 34.97	+ 8 21.4	1.659	2.642	4.4	19.4
4 1	11 27.59	+ 9 27.2	1.689	2.637	8.6	19.6
4 11	11 21.74	+10 16.5	1.745	2.632	12.5	19.9
4 21	11 17.99	+10 46.5	1.821	2.627	15.8	20.1

305816 2009 DN_{113} 3 15.1 37°.46 1°.1/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.06	+ 1 25.6	1.259	2.120	16.9	20.9
2 21	11 58.79	+ 2 9.8	1.203	2.130	12.3	20.7
3 2	11 51.85	+ 3 10.0	1.168	2.140	7.1	20.4
3 12	11 43.28	+ 4 18.0	1.158	2.150	1.7	20.1
3 22	11 34.38	+ 5 24.1	1.173	2.162	4.5	20.3
4 1	11 26.54	+ 6 18.9	1.213	2.173	9.8	20.6
4 11	11 20.90	+ 6 55.7	1.276	2.185	14.5	20.9
4 21	11 18.03	+ 7 12.0	1.358	2.198	18.4	21.2

492410 2014 KN_{40} 3 15.1 243°.69 2°.8/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.39	+ 7 3.5	1.728	2.575	13.8	22.3
2 21	12 3.22	+ 7 48.5	1.636	2.556	10.1	22.1
3 2	11 54.49	+ 8 42.0	1.568	2.537	6.0	21.8
3 12	11 43.96	+ 9 36.9	1.528	2.517	2.9	21.5
3 22	11 32.72	+10 25.6	1.516	2.495	5.4	21.6
4 1	11 22.08	+11 0.8	1.532	2.473	9.9	21.8
4 11	11 13.21	+11 18.2	1.573	2.450	14.2	22.0
4 21	11 6.88	+11 16.1	1.635	2.426	17.9	22.2

184104 2004 HQ_{23} 3 15.1 86°.95 2°.2/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.30	+ 6 10.1	1.703	2.553	13.8	20.2
2 21	12 1.22	+ 6 42.8	1.648	2.570	10.0	20.0
3 2	11 53.00	+ 7 22.1	1.617	2.587	5.7	19.8
3 12	11 43.52	+ 8 1.6	1.613	2.604	2.2	19.6
3 22	11 33.88	+ 8 35.0	1.638	2.621	4.6	19.8
4 1	11 25.18	+ 8 57.0	1.690	2.637	8.7	20.0
4 11	11 18.33	+ 9 4.6	1.767	2.653	12.4	20.3
4 21	11 13.82	+ 8 57.0	1.865	2.669	15.5	20.5

291272 2006 BM_{91} 3 15.1 40°.52 1°.1/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.23	− 2 27.7	1.164	2.019	18.5	20.6
2 21	11 59.79	− 2 8.6	1.110	2.031	13.8	20.4
3 2	11 52.49	− 1 28.8	1.076	2.044	8.3	20.1
3 12	11 43.44	− 0 34.4	1.066	2.057	2.6	19.8
3 22	11 34.05	+ 0 25.7	1.080	2.072	3.8	19.9
4 1	11 25.85	+ 1 21.4	1.119	2.086	9.4	20.3
4 11	11 20.01	+ 2 4.5	1.180	2.101	14.4	20.6
4 21	11 17.15	+ 2 30.3	1.260	2.117	18.5	20.9

141044 2001 WL_{80} 3 15.1 194°.97 1°.0/13.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.69	+ 3 23.5	2.577	3.414	10.1	21.3
2 21	11 55.98	+ 4 3.8	2.496	3.412	7.3	21.1
3 2	11 49.83	+ 4 51.4	2.442	3.410	4.2	20.9
3 12	11 42.77	+ 5 42.2	2.417	3.408	1.2	20.7
3 22	11 35.47	+ 6 31.3	2.421	3.406	3.0	20.8
4 1	11 28.61	+ 7 14.4	2.455	3.404	6.3	21.0
4 11	11 22.83	+ 7 47.6	2.517	3.401	9.2	21.2
4 21	11 18.58	+ 8 9.0	2.601	3.398	11.8	21.4

310044 2010 GW_{159} 3 15.1 214°.53 2°.3/13.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 7.68	+ 6 11.8	1.855	2.700	13.1	22.0
2 21	12 1.66	+ 6 55.3	1.773	2.692	9.5	21.7
3 2	11 53.41	+ 7 46.6	1.715	2.684	5.6	21.5
3 12	11 43.68	+ 8 39.5	1.686	2.675	2.4	21.2
3 22	11 33.47	+ 9 27.1	1.685	2.666	4.8	21.4
4 1	11 23.92	+10 3.1	1.713	2.656	8.9	21.6
4 11	11 16.02	+10 23.4	1.766	2.645	12.8	21.8
4 21	11 10.43	+10 26.5	1.840	2.633	16.1	22.0

31685 1999 JB_{25} 3 15.1 87°.67 3°.9/11.9 18

2 11	12 9.39	+12 2.4	1.800	2.652	13.1	17.4
2 21	12 2.64	+12 32.4	1.747	2.668	9.5	17.2
3 2	11 53.78	+13 2.9	1.719	2.685	5.9	17.0
3 12	11 43.71	+13 27.1	1.719	2.701	3.9	16.9
3 22	11 33.53	+13 39.7	1.747	2.717	5.9	17.0
4 1	11 24.33	+13 37.1	1.802	2.733	9.4	17.3
4 11	11 16.98	+13 18.4	1.883	2.749	12.7	17.5
4 21	11 11.98	+12 44.6	1.984	2.764	15.5	17.7

310527 2001 AP_{1} 3 15.1 140°.38 5°.1/ 9.6 18

2 11	12 6.21	+13 45.6	1.979	2.834	12.0	21.0
2 21	12 0.29	+15 15.0	1.927	2.848	8.8	20.8
3 2	11 52.42	+16 44.9	1.900	2.861	6.0	20.6
3 12	11 43.40	+18 6.4	1.902	2.873	5.2	20.6
3 22	11 34.18	+19 12.0	1.934	2.885	7.2	20.8
4 1	11 25.76	+19 56.5	1.992	2.896	10.2	21.0
4 11	11 18.94	+20 18.3	2.074	2.906	13.1	21.2
4 21	11 14.25	+20 18.3	2.177	2.915	15.6	21.4

130722 2000 SS_{214} 3 15.1 355°.09 2°.1/13.8 18

2 11	12 7.77	+ 5 46.1	1.342	2.202	16.2	19.4
2 21	12 2.29	+ 6 1.8	1.274	2.201	11.8	19.2
3 2	11 53.98	+ 6 26.0	1.228	2.199	6.9	18.9
3 12	11 43.83	+ 6 52.3	1.207	2.199	2.3	18.6
3 22	11 33.19	+ 7 13.3	1.212	2.198	5.1	18.8
4 1	11 23.55	+ 7 22.9	1.243	2.198	10.2	19.0
4 11	11 16.15	+ 7 17.1	1.297	2.198	14.9	19.3
4 21	11 11.69	+ 6 54.9	1.370	2.199	18.8	19.6

107002 2000 YY_{109} 3 15.1 327°.64 6°.1/ 9.9 18

2 11	12 3.78	+13 10.3	1.409	2.282	14.7	19.3
2 21	11 59.31	+14 30.8	1.346	2.277	10.9	19.0
3 2	11 52.21	+15 54.6	1.306	2.272	7.4	18.8
3 12	11 43.41	+17 10.2	1.291	2.268	6.2	18.7
3 22	11 34.15	+18 7.4	1.302	2.263	8.8	18.8
4 1	11 25.80	+18 38.9	1.337	2.259	12.7	19.1
4 11	11 19.52	+18 42.2	1.393	2.256	16.6	19.3
4 21	11 15.96	+18 18.9	1.467	2.252	19.9	19.5

148608 2001 RS_{80} 3 15.1 81°.49 1°.6/16.4 18

2 11	12 8.39	− 2 46.6	1.746	2.568	14.8	19.8
2 21	12 2.03	− 2 54.3	1.684	2.587	11.1	19.6
3 2	11 53.50	− 2 48.3	1.646	2.605	6.9	19.4
3 12	11 43.67	− 2 31.6	1.635	2.624	2.6	19.1
3 22	11 33.64	− 2 8.7	1.652	2.642	3.1	19.2
4 1	11 24.51	− 1 44.9	1.698	2.660	7.2	19.5
4 11	11 17.19	− 1 25.3	1.769	2.678	11.1	19.8
4 21	11 12.24	− 1 13.6	1.863	2.696	14.4	20.0

233930 2009 UG_{88} 3 15.1 39°.36 8°.6/ 8.6 18

2 11	12 7.47	+21 33.5	1.423	2.290	15.0	19.6
2 21	12 1.62	+22 38.8	1.392	2.311	11.7	19.4
3 2	11 53.27	+23 33.5	1.384	2.333	9.1	19.4
3 12	11 43.59	+24 7.7	1.401	2.355	8.7	19.4
3 22	11 33.95	+24 14.9	1.443	2.378	10.6	19.5
4 1	11 25.63	+23 53.6	1.508	2.402	13.4	19.8
4 11	11 19.57	+23 6.2	1.594	2.426	16.3	20.0
4 21	11 16.22	+21 57.7	1.697	2.451	18.8	20.3

212619 2006 TD_{9} 3 15.1 214°.99 1°.4/16.7 18

2 11	12 2.27	− 4 7.6	2.584	3.392	11.0	20.7
2 21	11 57.19	− 3 59.7	2.493	3.387	8.3	20.5
3 2	11 50.58	− 3 40.6	2.427	3.382	5.3	20.3
3 12	11 42.99	− 3 12.6	2.389	3.377	2.2	20.1
3 22	11 35.09	− 2 39.1	2.382	3.372	2.3	20.1
4 1	11 27.62	− 2 4.1	2.404	3.366	5.5	20.3
4 11	11 21.23	− 1 31.9	2.454	3.360	8.6	20.5
4 21	11 16.41	− 1 5.9	2.529	3.353	11.3	20.6

149450 2003 CE_{14} 3 15.1 225°.36 3°.2/18.0 17

2 11	12 4.02	− 8 16.3	1.860	2.666	14.7	20.6
2 21	11 59.00	− 8 18.2	1.775	2.663	11.5	20.4
3 2	11 51.86	− 8 1.6	1.713	2.661	7.8	20.1
3 12	11 43.32	− 7 28.4	1.677	2.658	4.2	19.9
3 22	11 34.34	− 6 42.8	1.668	2.655	3.7	19.9
4 1	11 25.96	− 5 50.8	1.688	2.652	7.0	20.1
4 11	11 19.13	− 4 59.4	1.733	2.649	10.9	20.3
4 21	11 14.49	− 4 14.8	1.801	2.646	14.3	20.5

127026 2002 GL_{21} 3 15.1 302°.54 1°.5/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 2.99	+ 4 9.6	1.863	2.711	12.9	19.8
2 21	11 58.18	+ 4 43.8	1.785	2.706	9.4	19.5
3 2	11 51.34	+ 5 27.1	1.731	2.701	5.4	19.3
3 12	11 43.20	+ 6 13.9	1.705	2.697	1.7	19.0
3 22	11 34.67	+ 6 58.1	1.707	2.692	4.0	19.2
4 1	11 26.77	+ 7 33.7	1.736	2.687	8.1	19.4
4 11	11 20.40	+ 7 56.3	1.790	2.683	11.9	19.6
4 21	11 16.15	+ 8 3.6	1.866	2.678	15.2	19.8

293518 2007 GU_{36} 3 15.1 308°.13 0°.2/14.9 17

2 11	12 1.68	− 1 16.3	1.260	2.117	17.2	21.1
2 21	11 58.12	− 0 29.3	1.180	2.104	12.8	20.8
3 2	11 51.72	+ 0 39.9	1.122	2.092	7.6	20.5
3 12	11 43.35	+ 2 4.5	1.088	2.080	1.8	20.1
3 22	11 34.26	+ 3 34.3	1.079	2.069	4.3	20.2
4 1	11 25.95	+ 4 57.3	1.094	2.058	10.1	20.5
4 11	11 19.76	+ 6 3.2	1.132	2.047	15.4	20.8
4 21	11 16.49	+ 6 46.3	1.189	2.037	20.0	21.0

212507 2006 RB_{18} 3 15.1 212°.82 2°.4/17.9 18

2 11	12 2.35	− 7 43.6	2.678	3.469	11.1	20.6
2 21	11 57.23	− 7 43.0	2.583	3.463	8.6	20.4
3 2	11 50.60	− 7 29.6	2.513	3.458	5.8	20.3
3 12	11 43.01	− 7 5.0	2.471	3.452	3.1	20.1
3 22	11 35.09	− 6 32.0	2.459	3.445	2.8	20.0
4 1	11 27.57	− 5 54.4	2.477	3.439	5.3	20.2
4 11	11 21.10	− 5 16.8	2.523	3.432	8.2	20.4
4 21	11 16.16	− 4 43.1	2.594	3.424	10.9	20.5

160357 2003 WF_{117} 3 15.1 242°.74 3°.6/19.4 18

2 11	12 2.98	−12 41.7	2.778	3.541	11.5	21.4
2 21	11 57.76	−12 37.6	2.663	3.520	9.2	21.2
3 2	11 50.98	−12 17.6	2.572	3.499	6.7	21.0
3 12	11 43.12	−11 42.6	2.509	3.477	4.4	20.8
3 22	11 34.82	−10 54.8	2.476	3.454	3.7	20.7
4 1	11 26.81	− 9 58.3	2.473	3.431	5.6	20.8
4 11	11 19.78	− 8 58.3	2.498	3.407	8.3	20.9
4 21	11 14.27	− 8 0.1	2.549	3.382	11.0	21.1

247833 2003 SO_{251} 3 15.1 117°.58 3°.4/18.8 18

2 11	12 4.36	−11 22.3	1.889	2.679	15.1	20.8
2 21	11 59.04	−10 52.5	1.820	2.697	11.8	20.6
3 2	11 51.76	−10 0.4	1.773	2.714	8.1	20.4
3 12	11 43.28	− 8 49.5	1.752	2.730	4.6	20.2
3 22	11 34.57	− 7 25.6	1.760	2.746	3.7	20.2
4 1	11 26.61	− 5 56.8	1.797	2.761	6.7	20.4
4 11	11 20.26	− 4 31.5	1.860	2.776	10.3	20.6
4 21	11 16.02	− 3 16.4	1.948	2.790	13.5	20.9

383853 2008 OO_{23} 3 15.1 244°.68 4°.6/20.2 17

2 11	12 2.74	−14 52.9	2.401	3.160	13.1	21.6
2 21	11 57.81	−14 50.2	2.291	3.143	10.8	21.4
3 2	11 51.10	−14 27.9	2.204	3.125	8.0	21.2
3 12	11 43.16	−13 46.4	2.144	3.106	5.5	21.0
3 22	11 34.72	−12 48.2	2.111	3.086	4.6	20.9
4 1	11 26.64	−11 38.2	2.108	3.066	6.4	20.9
4 11	11 19.73	−10 23.1	2.133	3.046	9.3	21.1
4 21	11 14.57	− 9 9.5	2.182	3.025	12.2	21.2

236745 2007 KS_{8} 3 15.1 281°.57 4°.4/19.9 17

2 11	11 59.95	−13 52.1	1.970	2.752	14.8	20.5
2 21	11 56.05	−13 31.6	1.869	2.737	12.0	20.3
3 2	11 50.18	−12 46.9	1.790	2.722	8.7	20.0
3 12	11 42.94	−11 39.3	1.736	2.707	5.6	19.8
3 22	11 35.20	−10 13.0	1.709	2.691	4.5	19.7
4 1	11 27.93	− 8 35.3	1.711	2.676	6.9	19.8
4 11	11 22.03	− 6 55.5	1.739	2.661	10.5	20.0
4 21	11 18.14	− 5 22.1	1.791	2.646	14.0	20.2

429692 2011 HT_{43} 3 15.1 357°.50 8°.0/ 5.9 18

2 11	12 0.74	+20 24.3	1.713	2.583	12.7	20.3
2 21	11 56.73	+22 15.1	1.661	2.581	10.0	20.1
3 2	11 50.55	+24 1.2	1.634	2.580	8.2	20.0
3 12	11 43.01	+25 31.3	1.633	2.579	8.5	20.0
3 22	11 35.15	+26 36.7	1.658	2.579	10.5	20.1
4 1	11 28.07	+27 12.2	1.706	2.579	13.3	20.3
4 11	11 22.71	+27 17.2	1.775	2.580	16.0	20.5
4 21	11 19.63	+26 54.6	1.861	2.581	18.4	20.7

350159 2011 ST_{202} 3 15.1 243°.71 3°.5/19.2 17

2 11	12 0.47	−11 25.6	2.384	3.167	12.6	20.9
2 21	11 56.02	−11 21.4	2.294	3.164	10.0	20.8
3 2	11 49.96	−11 0.1	2.227	3.162	7.1	20.6
3 12	11 42.87	−10 23.2	2.186	3.159	4.4	20.4
3 22	11 35.44	− 9 33.9	2.174	3.156	3.7	20.3
4 1	11 28.47	− 8 37.2	2.191	3.154	5.8	20.5
4 11	11 22.67	− 7 38.9	2.235	3.151	8.8	20.6
4 21	11 18.53	− 6 44.4	2.304	3.148	11.6	20.8

138552 2000 QF_{33} 3 15.1 234°.38 3°.2/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 2.51	+12 18.0	2.789	3.636	9.1	20.5
2 21	11 57.30	+13 4.2	2.704	3.623	6.7	20.4
3 2	11 50.62	+13 51.9	2.645	3.609	4.3	20.2
3 12	11 43.02	+14 36.2	2.617	3.595	3.2	20.1
3 22	11 35.13	+15 12.5	2.618	3.581	4.8	20.2
4 1	11 27.64	+15 37.2	2.649	3.566	7.4	20.3
4 11	11 21.19	+15 48.1	2.705	3.551	10.0	20.5
4 21	11 16.24	+15 44.7	2.785	3.535	12.2	20.6

39394 6027 *P–L* 3 15.1 300°.12 0°.5/14.7 18

2 11	12 4.33	+ 1 14.8	1.402	2.255	16.0	19.1
2 21	11 59.97	+ 1 37.3	1.312	2.235	11.9	18.8
3 2	11 52.82	+ 2 15.4	1.244	2.214	7.1	18.4
3 12	11 43.66	+ 3 3.5	1.200	2.193	1.6	18.0
3 22	11 33.66	+ 3 54.3	1.183	2.172	4.2	18.1
4 1	11 24.28	+ 4 39.0	1.191	2.152	9.8	18.4
4 11	11 16.87	+ 5 10.3	1.222	2.132	14.9	18.6
4 21	11 12.29	+ 5 23.7	1.272	2.113	19.3	18.8

337704 2001 UJ_{6} 3 15.1 94°.36 6°.8/ 6.8 18

2 11	12 5.66	+25 0.6	2.489	3.332	10.2	20.6
2 21	11 59.54	+26 4.2	2.455	3.353	8.2	20.6
3 2	11 51.84	+26 58.8	2.447	3.374	6.9	20.5
3 12	11 43.30	+27 38.1	2.466	3.395	7.0	20.5
3 22	11 34.71	+27 58.1	2.513	3.416	8.3	20.6
4 1	11 26.89	+27 57.1	2.586	3.436	10.1	20.8
4 11	11 20.49	+27 35.8	2.682	3.456	12.0	21.0
4 21	11 15.91	+26 56.9	2.798	3.475	13.7	21.1

324556 2006 WP_{92} 3 15.1 122°.10 0°.1/15.1 18

2 11	12 4.28	− 0 32.7	1.869	2.702	13.5	21.8
2 21	11 59.01	+ 0 6.8	1.801	2.713	9.9	21.6
3 2	11 51.77	+ 0 59.4	1.758	2.724	5.8	21.4
3 12	11 43.32	+ 1 59.8	1.742	2.734	1.4	21.1
3 22	11 34.61	+ 3 1.5	1.755	2.744	3.1	21.2
4 1	11 26.64	+ 3 57.8	1.796	2.754	7.4	21.5
4 11	11 20.24	+ 4 42.9	1.864	2.763	11.2	21.8
4 21	11 15.95	+ 5 13.8	1.953	2.772	14.4	22.0

336878 2011 GL_{46} 3 15.1 271°.83 1°.2/13.8 17

2 11	11 59.99	+ 1 15.3	1.989	2.832	12.4	21.1
2 21	11 55.98	+ 2 25.4	1.901	2.819	9.0	20.9
3 2	11 50.09	+ 3 49.5	1.837	2.807	5.2	20.6
3 12	11 42.95	+ 5 21.3	1.802	2.794	1.4	20.3
3 22	11 35.38	+ 6 53.0	1.795	2.781	3.8	20.4
4 1	11 28.30	+ 8 16.6	1.817	2.767	7.9	20.7
4 11	11 22.56	+ 9 25.5	1.865	2.754	11.7	20.9
4 21	11 18.75	+10 15.9	1.935	2.741	15.0	21.1

110921 2001 UX_{141} 3 15.1 27°.34 2°.8/11.3 18

2 11	11 59.64	+11 35.1	2.825	3.675	8.9	19.6
2 21	11 55.11	+12 11.2	2.757	3.678	6.5	19.4
3 2	11 49.29	+12 48.4	2.716	3.682	4.0	19.3
3 12	11 42.71	+13 22.4	2.704	3.685	2.8	19.2
3 22	11 35.96	+13 49.2	2.722	3.689	4.3	19.3
4 1	11 29.67	+14 5.8	2.768	3.693	6.8	19.5
4 11	11 24.38	+14 10.4	2.840	3.697	9.2	19.6
4 21	11 20.48	+14 2.5	2.935	3.701	11.3	19.8

303305 2004 TS_{19} 3 15.1 197°.01 1°.4/13.7 18

2 11	12 5.05	+ 2 18.2	1.824	2.666	13.4	21.2
2 21	11 59.75	+ 3 19.6	1.745	2.663	9.8	21.0
3 2	11 52.32	+ 4 33.8	1.691	2.660	5.6	20.7
3 12	11 43.48	+ 5 54.0	1.664	2.656	1.6	20.4
3 22	11 34.23	+ 7 12.3	1.667	2.652	4.1	20.6
4 1	11 25.63	+ 8 20.8	1.698	2.647	8.5	20.8
4 11	11 18.64	+ 9 13.4	1.754	2.641	12.5	21.1
4 21	11 13.87	+ 9 47.3	1.832	2.634	15.8	21.3

168935 2000 YC_{95} 3 15.1 29°.15 2°.6/13.1 18

2 11	12 2.53	+ 4 33.5	1.219	2.090	16.7	19.7
2 21	11 58.50	+ 5 29.2	1.166	2.098	12.1	19.5
3 2	11 51.76	+ 6 37.5	1.134	2.107	6.9	19.2
3 12	11 43.35	+ 7 48.8	1.126	2.117	2.7	19.0
3 22	11 34.62	+ 8 52.8	1.143	2.127	5.7	19.2
4 1	11 26.98	+ 9 40.2	1.185	2.139	10.7	19.5
4 11	11 21.56	+10 5.9	1.248	2.150	15.3	19.8
4 21	11 18.95	+10 8.6	1.330	2.163	19.1	20.1

315777 2008 FO_{104} 3 15.1 353°.07 0°.1/15.2 18

2 11	11 57.96	− 1 45.7	1.257	2.118	17.0	19.7
2 21	11 55.26	− 1 2.0	1.186	2.111	12.6	19.4
3 2	11 49.97	+ 0 3.2	1.136	2.106	7.5	19.1
3 12	11 42.95	+ 1 23.3	1.110	2.102	1.9	18.8
3 22	11 35.41	+ 2 48.1	1.108	2.099	3.9	18.9
4 1	11 28.70	+ 4 6.4	1.131	2.097	9.5	19.2
4 11	11 24.00	+ 5 8.6	1.177	2.097	14.5	19.5
4 21	11 21.99	+ 5 49.3	1.241	2.098	18.7	19.7

162641 2000 SB_{179} 3 15.1 93°.08 2°.9/13.0 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 12.58	+ 8 21.8	1.621	2.467	14.6	20.1
2 21	12 5.07	+ 8 48.8	1.573	2.493	10.5	19.9
3 2	11 55.24	+ 9 19.7	1.550	2.518	6.1	19.7
3 12	11 44.14	+ 9 47.8	1.554	2.543	2.9	19.6
3 22	11 33.00	+10 7.1	1.587	2.567	5.2	19.8
4 1	11 23.04	+10 13.3	1.648	2.590	9.2	20.1
4 11	11 15.19	+10 4.6	1.734	2.613	13.0	20.3
4 21	11 9.95	+ 9 41.4	1.841	2.635	16.1	20.6

465727 2009 UD_{140} 3 15.1 106°.54 3°.6/11.7 17

2 11	12 4.69	+10 14.5	1.896	2.751	12.4	21.2
2 21	11 59.30	+11 5.0	1.834	2.758	9.0	21.0
3 2	11 51.94	+11 58.7	1.797	2.764	5.5	20.8
3 12	11 43.38	+12 48.6	1.787	2.771	3.6	20.7
3 22	11 34.57	+13 28.4	1.806	2.777	5.7	20.9
4 1	11 26.52	+13 53.1	1.852	2.783	9.1	21.1
4 11	11 20.07	+14 0.2	1.922	2.789	12.5	21.3
4 21	11 15.74	+13 49.7	2.014	2.795	15.3	21.5

497822 2006 TL_{124} 3 15.1 113°.66 2°.1/12.4 17

2 11	12 1.71	+ 7 50.1	2.626	3.469	9.7	22.1
2 21	11 56.63	+ 8 33.6	2.564	3.483	7.0	22.0
3 2	11 50.18	+ 9 20.8	2.528	3.497	4.1	21.8
3 12	11 42.93	+10 6.8	2.523	3.510	2.1	21.7
3 22	11 35.54	+10 47.3	2.547	3.523	3.8	21.8
4 1	11 28.68	+11 18.5	2.600	3.536	6.6	22.0
4 11	11 22.94	+11 37.9	2.681	3.548	9.3	22.2
4 21	11 18.72	+11 44.5	2.784	3.561	11.6	22.4

42950 1999 TF_{101} 3 15.1 240°.11 4°.0/11.2 18 R

2 11	12 4.34	+ 9 13.1	1.776	2.633	13.0	19.0
2 21	11 59.36	+10 27.8	1.697	2.623	9.5	18.8
3 2	11 52.16	+11 49.6	1.643	2.612	5.8	18.5
3 12	11 43.47	+13 10.1	1.617	2.600	4.0	18.4
3 22	11 34.30	+14 20.6	1.619	2.589	6.4	18.5
4 1	11 25.76	+15 13.5	1.648	2.576	10.3	18.7
4 11	11 18.86	+15 44.7	1.700	2.564	14.0	18.9
4 21	11 14.25	+15 53.3	1.773	2.551	17.2	19.1

374311 2005 SP_{221} 3 15.1 219°.66 0°.8/14.2 17

2 11	12 5.09	+ 2 37.0	2.374	3.203	11.1	23.2
2 21	11 59.41	+ 3 10.9	2.281	3.193	8.1	23.0
3 2	11 51.99	+ 3 53.5	2.214	3.181	4.7	22.7
3 12	11 43.41	+ 4 40.6	2.177	3.169	1.2	22.5
3 22	11 34.45	+ 5 27.2	2.170	3.156	3.1	22.6
4 1	11 25.93	+ 6 8.3	2.192	3.142	6.8	22.8
4 11	11 18.64	+ 6 39.7	2.242	3.128	10.2	23.0
4 21	11 13.12	+ 6 58.9	2.316	3.113	13.1	23.2

238045 2003 AE_{50} 3 15.1 89°.48 6°.7/ 6.6 17

2 11	12 2.08	+21 35.4	2.244	3.100	10.7	20.3
2 21	11 57.20	+23 2.1	2.199	3.110	8.4	20.2
3 2	11 50.63	+24 22.6	2.180	3.120	6.9	20.1
3 12	11 43.05	+25 29.3	2.189	3.130	7.0	20.1
3 22	11 35.31	+26 16.4	2.224	3.140	8.5	20.2
4 1	11 28.24	+26 40.7	2.286	3.150	10.7	20.4
4 11	11 22.57	+26 41.9	2.370	3.160	12.9	20.5
4 21	11 18.74	+26 22.0	2.473	3.170	14.9	20.7

362180 2009 FD_{34} 3 15.1 326°.35 1°.5/14.0 17

2 11	12 2.83	+ 3 1.8	1.294	2.158	16.4	20.6
2 21	11 58.90	+ 3 34.5	1.217	2.146	12.1	20.3
3 2	11 52.17	+ 4 21.8	1.162	2.135	7.0	20.0
3 12	11 43.52	+ 5 16.6	1.131	2.124	1.9	19.6
3 22	11 34.20	+ 6 9.9	1.126	2.113	4.9	19.8
4 1	11 25.69	+ 6 52.8	1.145	2.104	10.3	20.1
4 11	11 19.29	+ 7 18.3	1.186	2.095	15.4	20.3
4 21	11 15.77	+ 7 23.5	1.245	2.087	19.6	20.6

9622 Terryjones 3 15.1 61°.52 3°.2/17.7 18 R

2 11	12 4.56	− 8 43.5	1.223	2.054	19.4	17.9
2 21	11 59.90	− 8 13.8	1.173	2.076	14.8	17.7
3 2	11 52.52	− 7 16.1	1.142	2.098	9.7	17.4
3 12	11 43.54	− 5 56.0	1.135	2.120	4.6	17.2
3 22	11 34.34	− 4 23.1	1.152	2.143	4.0	17.2
4 1	11 26.35	− 2 49.6	1.196	2.165	8.6	17.6
4 11	11 20.65	− 1 26.6	1.263	2.188	13.3	17.9
4 21	11 17.79	− 0 21.2	1.350	2.211	17.3	18.2

345568 2006 RH_{85} 3 15.1 61°.26 0°.4/14.7 17

2 11	12 1.96	+ 1 44.4	2.175	3.012	11.7	20.7
2 21	11 57.11	+ 2 9.3	2.105	3.020	8.5	20.5
3 2	11 50.59	+ 2 43.1	2.061	3.028	4.9	20.3
3 12	11 43.07	+ 3 21.6	2.044	3.037	1.1	20.0
3 22	11 35.32	+ 4 0.0	2.057	3.045	2.9	20.2
4 1	11 28.17	+ 4 33.5	2.098	3.054	6.6	20.4
4 11	11 22.33	+ 4 58.0	2.166	3.063	10.0	20.7
4 21	11 18.29	+ 5 11.2	2.256	3.071	12.8	20.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
15221 1981 UA_{23}			3 15.1 82°.06	2°.4/13.3 18		
	h m	° ′			°	m
2 11	12 7.21	+ 4 24.8	1.355	2.213	16.2	18.2
2 21	12 1.61	+ 5 21.2	1.306	2.232	11.7	17.9
3 2	11 53.44	+ 6 28.7	1.279	2.250	6.7	17.7
3 12	11 43.76	+ 7 38.2	1.278	2.269	2.5	17.5
3 22	11 33.90	+ 8 40.2	1.303	2.287	5.3	17.7
4 1	11 25.20	+ 9 26.9	1.355	2.305	10.0	18.0
4 11	11 18.70	+ 9 53.6	1.430	2.323	14.3	18.3
4 21	11 14.94	+ 9 59.5	1.524	2.341	17.8	18.6
211195 2002 LN_{46}			3 15.1 308°.40	11°.6/29.9 17		
2 11	11 59.81	+23 32.3	1.352	2.231	14.8	19.3
2 21	11 56.92	+26 38.2	1.290	2.208	12.5	19.1
3 2	11 51.15	+29 41.2	1.253	2.186	11.6	19.0
3 12	11 43.31	+32 22.2	1.241	2.163	13.0	19.0
3 22	11 34.67	+34 25.6	1.252	2.141	15.8	19.1
4 1	11 26.77	+35 41.9	1.283	2.120	19.1	19.2
4 11	11 21.00	+36 10.3	1.331	2.099	22.2	19.4
4 21	11 18.24	+35 55.5	1.391	2.078	24.9	19.6
126042 2001 YB_{71}			3 15.1 301°.03	8°.9/22.8 17		
2 11	12 4.02	−21 21.4	1.829	2.566	17.4	19.4
2 21	11 59.36	−22 16.6	1.735	2.556	15.0	19.2
3 2	11 52.31	−22 46.5	1.660	2.547	12.4	19.0
3 12	11 43.57	−22 47.8	1.608	2.537	10.0	18.8
3 22	11 34.12	−22 20.5	1.581	2.528	8.9	18.7
4 1	11 25.19	−21 28.2	1.579	2.519	9.7	18.7
4 11	11 17.88	−20 19.1	1.601	2.510	12.1	18.8
4 21	11 12.99	−19 2.6	1.645	2.501	14.9	19.0
453385 2009 BB_{189}			3 15.1 45°.87	5°.2/11.6 18		
2 11	12 7.01	+10 53.0	1.156	2.032	17.1	20.5
2 21	12 1.74	+11 50.9	1.116	2.050	12.4	20.2
3 2	11 53.58	+12 51.8	1.099	2.069	7.7	20.0
3 12	11 43.79	+13 44.5	1.105	2.089	5.2	19.9
3 22	11 33.90	+14 19.5	1.135	2.109	7.9	20.2
4 1	11 25.41	+14 31.2	1.190	2.130	12.3	20.5
4 11	11 19.43	+14 18.3	1.266	2.151	16.4	20.8
4 21	11 16.46	+13 43.2	1.359	2.172	19.8	21.0
436718 2011 UL_{101}			3 15.1 251°.47	2°.0/17.9 17		
2 11	11 59.35	− 8 4.5	2.735	3.529	10.8	21.8
2 21	11 55.09	− 7 38.3	2.632	3.515	8.4	21.6
3 2	11 49.41	− 6 57.6	2.553	3.501	5.6	21.4
3 12	11 42.80	− 6 4.9	2.503	3.486	2.8	21.2
3 22	11 35.87	− 5 3.8	2.483	3.471	2.5	21.1
4 1	11 29.27	− 3 59.0	2.492	3.456	5.2	21.3
4 11	11 23.63	− 2 55.8	2.530	3.440	8.1	21.5
4 21	11 19.42	− 1 58.8	2.593	3.424	10.9	21.6
161940 2007 FU_{38}			3 15.1 272°.12	5°.3/10.2 18		
2 11	12 7.29	+16 2.1	1.987	2.840	12.0	20.0
2 21	12 1.39	+16 48.5	1.904	2.822	9.0	19.8
3 2	11 53.31	+17 33.6	1.846	2.804	6.3	19.6
3 12	11 43.77	+18 10.3	1.815	2.786	5.4	19.5
3 22	11 33.77	+18 32.0	1.813	2.767	7.3	19.5
4 1	11 24.37	+18 34.3	1.837	2.748	10.5	19.7
4 11	11 16.56	+18 15.8	1.886	2.729	13.7	19.8
4 21	11 10.97	+17 37.9	1.955	2.710	16.6	20.0
310970 2003 UA_{182}			3 15.1 80°.06	1°.5/13.8 18		
2 11	12 5.13	+ 2 19.5	1.537	2.387	15.0	20.8
2 21	11 59.85	+ 3 19.5	1.486	2.408	10.8	20.5
3 2	11 52.32	+ 4 31.7	1.459	2.429	6.1	20.3
3 12	11 43.49	+ 5 48.2	1.458	2.450	1.8	20.1
3 22	11 34.51	+ 7 0.1	1.485	2.471	4.4	20.3
4 1	11 26.51	+ 7 59.5	1.539	2.491	8.9	20.6
4 11	11 20.44	+ 8 41.2	1.618	2.512	12.9	20.9
4 21	11 16.78	+ 9 3.5	1.717	2.532	16.2	21.2
500267 2012 LL_{13}			3 15.1 248°.51	1°.8/13.1 17		
2 11	12 1.11	+ 2 54.5	2.076	2.920	11.9	22.1
2 21	11 56.75	+ 4 12.0	1.986	2.906	8.7	21.9
3 2	11 50.55	+ 5 42.1	1.922	2.892	5.0	21.6
3 12	11 43.10	+ 7 18.0	1.887	2.878	1.8	21.4
3 22	11 35.22	+ 8 52.0	1.881	2.863	4.2	21.5
4 1	11 27.80	+10 16.2	1.904	2.848	8.1	21.7
4 11	11 21.69	+11 24.4	1.953	2.832	11.8	21.9
4 21	11 17.46	+12 13.5	2.025	2.816	14.9	22.1
81971 Turonclavere			3 15.1 197°.28	3°.5/ 9.9 18		
2 11	11 59.69	+11 44.0	2.677	3.529	9.3	20.4
2 21	11 55.29	+13 3.5	2.605	3.527	6.8	20.2
3 2	11 49.49	+14 25.6	2.561	3.525	4.4	20.1
3 12	11 42.82	+15 44.3	2.546	3.522	3.6	20.0
3 22	11 35.90	+16 53.8	2.561	3.519	5.3	20.1
4 1	11 29.41	+17 49.4	2.606	3.515	7.8	20.3
4 11	11 23.95	+18 28.5	2.675	3.512	10.3	20.4
4 21	11 19.98	+18 50.1	2.767	3.507	12.5	20.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
286942 2002 PZ_{161}			3 15.1 257°.74	1°.3/13.9 17		
	h m	° ′			°	m
2 11	12 4.92	+ 2 49.1	1.798	2.641	13.5	21.9
2 21	11 59.85	+ 3 30.5	1.706	2.625	9.9	21.6
3 2	11 52.51	+ 4 23.9	1.638	2.608	5.8	21.3
3 12	11 43.61	+ 5 23.7	1.598	2.590	1.6	21.0
3 22	11 34.12	+ 6 22.7	1.586	2.572	4.1	21.1
4 1	11 25.16	+ 7 13.9	1.602	2.554	8.6	21.3
4 11	11 17.79	+ 7 51.2	1.643	2.535	12.8	21.6
4 21	11 12.69	+ 8 11.5	1.705	2.516	16.5	21.7
101636 1999 CO_{42}			3 15.1 29°.65	1°.3/14.0 18		
2 11	12 1.17	+ 2 45.1	1.512	2.370	14.8	18.3
2 21	11 57.02	+ 3 24.3	1.461	2.387	10.7	18.1
3 2	11 50.70	+ 4 14.8	1.433	2.404	6.1	17.9
3 12	11 43.12	+ 5 9.8	1.430	2.423	1.6	17.6
3 22	11 35.35	+ 6 1.5	1.455	2.442	4.1	17.8
4 1	11 28.51	+ 6 43.1	1.505	2.462	8.6	18.1
4 11	11 23.47	+ 7 9.7	1.580	2.483	12.6	18.4
4 21	11 20.73	+ 7 19.4	1.674	2.505	15.9	18.7
4036 Whitehouse			3 15.1 29°.19	0°.9/14.3 18		
2 11	12 0.37	+ 0 56.5	1.567	2.420	14.6	16.7
2 21	11 56.47	+ 1 48.0	1.506	2.429	10.6	16.5
3 2	11 50.43	+ 2 53.7	1.468	2.438	6.1	16.2
3 12	11 43.07	+ 4 6.6	1.455	2.448	1.4	16.0
3 22	11 35.43	+ 5 18.3	1.470	2.458	3.9	16.1
4 1	11 28.59	+ 6 20.6	1.511	2.469	8.5	16.4
4 11	11 23.48	+ 7 7.3	1.576	2.480	12.6	16.7
4 21	11 20.63	+ 7 35.5	1.662	2.492	16.0	17.0
99948 1952 SU_{1}			3 15.1 198°.48	4°.1/19.9 17		
2 11	12 5.37	−13 48.2	2.647	3.401	12.2	21.0
2 21	11 59.52	−13 53.4	2.547	3.397	9.9	20.8
3 2	11 52.04	−13 41.9	2.471	3.392	7.3	20.6
3 12	11 43.46	−13 14.3	2.423	3.386	4.9	20.5
3 22	11 34.51	−12 33.0	2.404	3.379	4.2	20.4
4 1	11 25.95	−11 42.0	2.415	3.371	5.9	20.5
4 11	11 18.53	−10 46.7	2.455	3.362	8.5	20.7
4 21	11 12.76	− 9 52.5	2.520	3.353	11.1	20.8
333255 2012 JS_{8}			3 15.1 34°.01	0°.1/15.1 17		
2 11	12 3.57	+ 0 6.5	1.739	2.579	14.0	21.5
2 21	11 58.73	+ 0 33.7	1.664	2.580	10.4	21.2
3 2	11 51.75	+ 1 13.9	1.614	2.581	6.1	21.0
3 12	11 43.40	+ 2 2.4	1.590	2.582	1.5	20.7
3 22	11 34.68	+ 2 52.7	1.594	2.583	3.3	20.8
4 1	11 26.67	+ 3 38.1	1.625	2.585	7.8	21.1
4 11	11 20.30	+ 4 13.0	1.681	2.586	11.9	21.3
4 21	11 16.17	+ 4 34.0	1.759	2.587	15.3	21.5
244917 2003 WB_{155}			3 15.1 237°.52	2°.8/17.9 18		
2 11	12 2.11	− 9 6.8	1.735	2.545	15.4	20.3
2 21	11 57.80	− 8 31.5	1.647	2.538	12.0	20.0
3 2	11 51.29	− 7 32.8	1.581	2.532	8.0	19.8
3 12	11 43.32	− 6 13.8	1.541	2.525	4.0	19.5
3 22	11 34.84	− 4 41.1	1.528	2.518	3.4	19.5
4 1	11 26.97	− 3 3.8	1.544	2.511	7.4	19.7
4 11	11 20.70	− 1 31.6	1.585	2.503	11.6	19.9
4 21	11 16.69	− 0 12.2	1.649	2.495	15.4	20.1
469075 2015 BY_{87}			3 15.1 4°.91	1°.0/14.1 18		
2 11	12 1.10	+ 1 43.6	1.871	2.716	13.0	21.1
2 21	11 56.80	+ 2 32.4	1.796	2.716	9.4	20.9
3 2	11 50.57	+ 3 33.2	1.746	2.716	5.4	20.6
3 12	11 43.12	+ 4 40.0	1.724	2.716	1.4	20.3
3 22	11 35.33	+ 5 45.8	1.729	2.716	3.6	20.5
4 1	11 28.18	+ 6 43.8	1.763	2.717	7.8	20.8
4 11	11 22.50	+ 7 28.5	1.822	2.718	11.6	21.0
4 21	11 18.84	+ 7 56.9	1.902	2.718	14.8	21.2
45360 2000 AW_{102}			3 15.1 263°.20	4°.3/11.1 18		
2 11	12 3.94	+ 9 46.7	1.653	2.515	13.5	18.5
2 21	11 59.22	+11 0.1	1.577	2.504	9.9	18.2
3 2	11 52.16	+12 20.3	1.526	2.494	6.2	18.0
3 12	11 43.53	+13 38.3	1.501	2.484	4.3	17.8
3 22	11 34.41	+14 44.9	1.504	2.473	6.8	18.0
4 1	11 25.99	+15 32.5	1.533	2.463	10.8	18.2
4 11	11 19.31	+15 57.0	1.585	2.452	14.6	18.4
4 21	11 15.04	+15 58.0	1.656	2.441	18.0	18.6
270565 2002 HO_{12}			3 15.1 310°.34	11°.3/ 1.8 17		
2 11	12 4.15	+29 54.8	1.688	2.542	13.7	19.8
2 21	11 59.60	+31 49.4	1.631	2.525	12.0	19.6
3 2	11 52.47	+33 31.0	1.598	2.507	11.3	19.5
3 12	11 43.62	+34 47.5	1.589	2.490	12.1	19.5
3 22	11 34.27	+35 30.0	1.602	2.473	14.0	19.6
4 1	11 25.74	+35 34.7	1.637	2.456	16.4	19.7
4 11	11 19.21	+35 3.0	1.689	2.440	18.8	19.8
4 21	11 15.34	+34 0.0	1.756	2.424	21.0	20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
79625 1998 RW_{64}			3 15.1	67°.91	0°.3/14.9	18
	h m	° ′			°	m
2 11	12 8.86	+ 1 48.9	1.520	2.363	15.5	19.1
2 21	12 2.57	+ 2 0.0	1.469	2.386	11.3	18.9
3 2	11 53.92	+ 2 22.3	1.441	2.408	6.6	18.7
3 12	11 43.91	+ 2 50.5	1.439	2.431	1.5	18.4
3 22	11 33.77	+ 3 18.5	1.464	2.454	3.6	18.6
4 1	11 24.73	+ 3 40.5	1.517	2.476	8.3	19.0
4 11	11 17.74	+ 3 52.1	1.595	2.499	12.5	19.2
4 21	11 13.33	+ 3 51.1	1.694	2.521	15.9	19.5
303725 2005 QK_{34}			3 15.1	180°.34	1°.2/13.4	18
2 11	11 58.81	+ 2 44.8	2.726	3.562	9.7	21.0
2 21	11 54.61	+ 3 51.2	2.646	3.562	7.0	20.8
3 2	11 49.09	+ 5 6.0	2.594	3.563	3.9	20.6
3 12	11 42.75	+ 6 24.4	2.572	3.563	1.3	20.4
3 22	11 36.19	+ 7 40.7	2.580	3.563	3.1	20.5
4 1	11 30.03	+ 8 50.0	2.618	3.562	6.1	20.7
4 11	11 24.85	+ 9 47.9	2.684	3.562	9.0	20.9
4 21	11 21.07	+10 32.0	2.773	3.561	11.4	21.1
498990 2009 BC_{172}			3 15.1	181°.95	5°.2/20.9	17
2 11	12 4.42	−16 20.6	2.596	3.339	12.7	21.7
2 21	11 58.88	−16 49.0	2.504	3.339	10.5	21.6
3 2	11 51.68	−17 0.4	2.434	3.339	8.1	21.4
3 12	11 43.41	−16 54.4	2.391	3.339	6.0	21.3
3 22	11 34.76	−16 32.4	2.376	3.339	5.2	21.2
4 1	11 26.53	−15 57.8	2.389	3.338	6.4	21.3
4 11	11 19.46	−15 15.5	2.431	3.337	8.6	21.4
4 21	11 14.07	−14 30.9	2.497	3.335	11.0	21.6
225534 2000 SX_{25}			3 15.1	233°.17	1°.4/16.9	17 R
2 11	12 1.47	− 6 36.0	2.221	3.028	12.6	20.9
2 21	11 56.94	− 5 44.7	2.122	3.016	9.6	20.7
3 2	11 50.64	− 4 35.4	2.048	3.003	6.1	20.4
3 12	11 43.17	− 3 11.6	2.002	2.990	2.5	20.2
3 22	11 35.27	− 1 39.3	1.986	2.976	2.6	20.1
4 1	11 27.81	− 0 5.9	2.000	2.962	6.3	20.4
4 11	11 21.58	+ 1 21.2	2.041	2.948	10.0	20.5
4 21	11 17.13	+ 2 36.3	2.107	2.932	13.3	20.7
248677 2006 JO_{80}			3 15.1	233°.84	1°.2/14.1	17
2 11	12 5.37	+ 2 20.9	1.839	2.679	13.4	21.8
2 21	12 0.10	+ 3 6.5	1.750	2.667	9.8	21.6
3 2	11 52.63	+ 4 4.5	1.687	2.655	5.7	21.3
3 12	11 43.67	+ 5 8.9	1.651	2.643	1.5	21.0
3 22	11 34.18	+ 6 12.7	1.643	2.629	3.9	21.1
4 1	11 25.27	+ 7 8.5	1.664	2.616	8.4	21.4
4 11	11 17.92	+ 7 50.7	1.710	2.601	12.5	21.6
4 21	11 12.81	+ 8 15.9	1.778	2.586	16.0	21.8
15363 Ysaye			3 15.2	217°.71	0°.2/14.9	18
2 11	12 5.24	− 1 4.1	1.910	2.739	13.4	18.7
2 21	11 59.93	− 0 13.6	1.820	2.730	10.0	18.4
3 2	11 52.50	+ 0 52.4	1.754	2.720	5.9	18.2
3 12	11 43.64	+ 2 8.5	1.717	2.709	1.4	17.8
3 22	11 34.28	+ 3 27.8	1.709	2.698	3.3	17.9
4 1	11 25.47	+ 4 42.2	1.729	2.685	7.8	18.2
4 11	11 18.17	+ 5 44.8	1.776	2.672	11.8	18.4
4 21	11 13.03	+ 6 31.5	1.846	2.658	15.3	18.6
167835 2005 CR_{47}			3 15.2	80°.30	0°.8/15.8	18
2 11	12 6.21	− 2 29.2	1.499	2.335	16.1	20.6
2 21	12 0.77	− 2 3.1	1.442	2.353	11.9	20.4
3 2	11 52.96	− 1 20.0	1.406	2.371	7.2	20.1
3 12	11 43.72	− 0 25.3	1.397	2.388	2.2	19.9
3 22	11 34.25	+ 0 33.4	1.415	2.406	3.3	20.0
4 1	11 25.77	+ 1 28.4	1.460	2.423	8.1	20.3
4 11	11 19.28	+ 2 12.7	1.529	2.440	12.4	20.6
4 21	11 15.31	+ 2 42.3	1.620	2.457	16.0	20.9
414910 2010 XB_{84}			3 15.2	80°.05	0°.3/14.9	18
2 11	12 4.19	− 0 43.5	1.718	2.556	14.3	21.4
2 21	11 58.99	+ 0 7.7	1.665	2.579	10.4	21.2
3 2	11 51.79	+ 1 12.7	1.635	2.602	6.0	21.0
3 12	11 43.42	+ 2 25.2	1.632	2.625	1.4	20.7
3 22	11 34.91	+ 3 37.4	1.658	2.647	3.3	20.9
4 1	11 27.27	+ 4 41.9	1.712	2.669	7.7	21.2
4 11	11 21.35	+ 5 32.9	1.791	2.691	11.5	21.5
4 21	11 17.61	+ 6 7.5	1.892	2.713	14.7	21.8
414109 2007 TZ_{448}			3 15.2	219°.97	1°.3/13.9	17
2 11	12 5.61	+ 2 34.7	1.965	2.802	12.8	22.1
2 21	12 0.14	+ 3 25.9	1.877	2.793	9.3	21.8
3 2	11 52.60	+ 4 28.7	1.814	2.782	5.4	21.6
3 12	11 43.67	+ 5 37.4	1.779	2.771	1.5	21.3
3 22	11 34.26	+ 6 44.9	1.774	2.759	3.9	21.4
4 1	11 25.39	+ 7 44.3	1.797	2.746	8.1	21.6
4 11	11 18.01	+ 8 29.9	1.846	2.732	12.0	21.8
4 21	11 12.74	+ 8 58.9	1.918	2.718	15.3	22.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
422959 2003 AY_{49}			3 15.2	168°.80	3°.8/19.4	16
	h m	° ′			°	m
2 11	12 5.92	−12 29.3	2.531	3.294	12.4	21.3
2 21	11 59.92	−12 31.1	2.443	3.300	9.9	21.2
3 2	11 52.27	−12 16.4	2.378	3.305	7.2	21.0
3 12	11 43.56	−11 46.1	2.341	3.310	4.6	20.8
3 22	11 34.54	−11 3.1	2.334	3.313	3.9	20.8
4 1	11 26.02	−10 11.9	2.358	3.316	5.8	20.9
4 11	11 18.71	− 9 17.9	2.409	3.317	8.6	21.1
4 21	11 13.12	− 8 26.4	2.486	3.318	11.3	21.3
468670 2009 AL_{31}			3 15.2	129°.99	0°.7/14.3	17
2 11	12 1.36	+ 1 44.6	2.357	3.191	11.0	22.1
2 21	11 56.60	+ 2 28.6	2.285	3.199	8.0	21.9
3 2	11 50.30	+ 3 21.7	2.239	3.207	4.6	21.7
3 12	11 43.07	+ 4 19.1	2.222	3.214	1.1	21.4
3 22	11 35.62	+ 5 15.7	2.235	3.222	2.9	21.6
4 1	11 28.70	+ 6 6.3	2.276	3.228	6.4	21.8
4 11	11 22.99	+ 6 46.6	2.345	3.235	9.6	22.0
4 21	11 18.93	+ 7 14.2	2.437	3.242	12.3	22.2
81054 2000 ED_{64}			3 15.2	187°.65	0°.4/14.8	18
2 11	12 3.43	− 0 5.0	2.080	2.911	12.4	19.7
2 21	11 58.37	+ 0 43.5	1.999	2.911	9.1	19.4
3 2	11 51.46	+ 1 44.5	1.944	2.910	5.3	19.2
3 12	11 43.38	+ 2 53.0	1.916	2.909	1.2	18.9
3 22	11 34.95	+ 4 2.6	1.918	2.907	3.1	19.0
4 1	11 27.09	+ 5 6.7	1.949	2.904	7.1	19.3
4 11	11 20.61	+ 5 59.8	2.007	2.901	10.8	19.5
4 21	11 16.05	+ 6 38.3	2.088	2.898	13.9	19.7
261952 2006 PD_{6}			3 15.2	255°.40	1°.0/14.2	17
2 11	12 4.19	+ 1 34.3	1.778	2.620	13.7	21.5
2 21	11 59.35	+ 2 23.1	1.686	2.604	10.1	21.3
3 2	11 52.26	+ 3 26.0	1.619	2.587	5.9	21.0
3 12	11 43.61	+ 4 37.0	1.578	2.570	1.5	20.6
3 22	11 34.38	+ 5 48.6	1.566	2.553	3.9	20.8
4 1	11 25.68	+ 6 52.9	1.582	2.535	8.6	21.0
4 11	11 18.55	+ 7 43.0	1.623	2.517	12.8	21.2
4 21	11 13.70	+ 8 15.4	1.685	2.499	16.5	21.4
41587 2000 SX_{38}			3 15.2	50°.07	4°.1/12.3	18
2 11	12 7.22	+ 8 57.3	1.221	2.092	16.7	18.6
2 21	12 1.83	+ 9 47.1	1.178	2.109	12.1	18.4
3 2	11 53.66	+10 42.3	1.156	2.128	7.2	18.2
3 12	11 43.90	+11 32.9	1.159	2.146	4.2	18.1
3 22	11 33.99	+12 10.0	1.188	2.166	6.8	18.3
4 1	11 25.40	+12 27.2	1.241	2.185	11.4	18.6
4 11	11 19.21	+12 22.4	1.315	2.205	15.6	18.9
4 21	11 15.94	+11 56.8	1.409	2.225	19.0	19.1
41071 1999 VY_{36}			3 15.2	240°.61	4°.0/19.9	18
2 11	12 2.46	−13 43.4	2.510	3.274	12.5	19.4
2 21	11 57.57	−13 37.2	2.401	3.257	10.2	19.2
3 2	11 51.00	−13 12.8	2.316	3.241	7.5	19.0
3 12	11 43.29	−12 30.9	2.257	3.223	4.9	18.8
3 22	11 35.12	−11 34.3	2.228	3.206	4.1	18.7
4 1	11 27.31	−10 27.6	2.228	3.187	6.0	18.8
4 11	11 20.60	− 9 17.1	2.255	3.168	8.9	19.0
4 21	11 15.54	− 8 8.8	2.308	3.149	11.7	19.1
135293 2001 SY_{164}			3 15.2	110°.21	0°.8/15.9	17
2 11	12 4.08	− 1 34.8	2.458	3.275	11.2	20.0
2 21	11 58.50	− 1 27.9	2.386	3.287	8.3	19.8
3 2	11 51.38	− 1 11.4	2.339	3.299	5.0	19.7
3 12	11 43.34	− 0 48.0	2.321	3.312	1.6	19.4
3 22	11 35.11	− 0 21.5	2.333	3.323	2.3	19.5
4 1	11 27.42	+ 0 4.3	2.375	3.335	5.7	19.7
4 11	11 20.96	+ 0 25.7	2.445	3.346	8.8	20.0
4 21	11 16.16	+ 0 39.8	2.539	3.358	11.5	20.2
112172 2002 JY_{93}			3 15.2	301°.85	2°.4/17.0	17
2 11	12 3.15	− 5 24.6	1.443	2.277	16.7	20.2
2 21	11 59.08	− 5 19.0	1.352	2.259	12.9	19.9
3 2	11 52.34	− 4 52.3	1.282	2.241	8.4	19.6
3 12	11 43.68	− 4 7.0	1.235	2.223	3.7	19.2
3 22	11 34.23	− 3 8.9	1.215	2.206	3.7	19.2
4 1	11 25.37	− 2 6.4	1.221	2.189	8.7	19.4
4 11	11 18.39	− 1 8.8	1.250	2.172	13.7	19.7
4 21	11 14.14	− 0 23.5	1.299	2.156	18.1	19.9
114887 2003 QS_{16}			3 15.2	163°.81	0°.1/15.2	18
2 11	12 4.79	− 1 29.5	1.872	2.701	13.7	20.4
2 21	11 59.50	− 0 42.9	1.797	2.706	10.1	20.2
3 2	11 52.17	+ 0 18.5	1.746	2.711	6.0	19.9
3 12	11 43.56	+ 1 29.4	1.722	2.714	1.5	19.6
3 22	11 34.61	+ 2 42.7	1.728	2.718	3.1	19.8
4 1	11 26.34	+ 3 50.9	1.763	2.720	7.5	20.0
4 11	11 19.65	+ 4 47.8	1.823	2.722	11.4	20.3
4 21	11 15.08	+ 5 29.4	1.906	2.724	14.7	20.5

80056 1999 JM_{71} 3 15.2 273°.59 4°.6/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 2.98	+15 22.1	2.413	3.266	10.1	19.7
2 21	11 57.98	+16 21.3	2.325	3.244	7.6	19.5
3 2	11 51.24	+17 20.9	2.263	3.221	5.3	19.4
3 12	11 43.34	+18 14.5	2.229	3.198	4.7	19.3
3 22	11 35.04	+18 56.2	2.225	3.175	6.4	19.3
4 1	11 27.17	+19 21.7	2.248	3.152	9.2	19.5
4 11	11 20.49	+19 28.7	2.295	3.128	11.9	19.6
4 21	11 15.55	+19 17.3	2.364	3.104	14.4	19.7

167019 2003 QU_{31} 3 15.2 234°.88 1°.2/16.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.39	− 3 34.0	1.831	2.654	14.2	21.2
2 21	12 0.17	− 3 8.9	1.739	2.642	10.7	21.0
3 2	11 52.72	− 2 27.1	1.670	2.630	6.7	20.7
3 12	11 43.74	− 1 32.3	1.627	2.618	2.3	20.4
3 22	11 34.20	− 0 30.4	1.614	2.604	3.0	20.4
4 1	11 25.19	+ 0 31.5	1.628	2.590	7.5	20.7
4 11	11 17.76	+ 1 26.2	1.669	2.576	11.8	20.9
4 21	11 12.57	+ 2 8.5	1.732	2.561	15.5	21.1

213653 2002 RJ_{197} 3 15.2 218°.02 0°.8/14.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.25	+ 1 47.4	1.949	2.786	12.9	21.8
2 21	11 59.88	+ 2 24.1	1.864	2.779	9.5	21.6
3 2	11 52.45	+ 3 12.1	1.804	2.771	5.5	21.3
3 12	11 43.66	+ 4 6.3	1.771	2.764	1.3	21.0
3 22	11 34.44	+ 5 0.5	1.768	2.755	3.5	21.2
4 1	11 25.79	+ 5 48.3	1.793	2.746	7.7	21.4
4 11	11 18.64	+ 6 24.6	1.844	2.737	11.6	21.6
4 21	11 13.59	+ 6 46.3	1.917	2.727	14.9	21.8

206844 2004 EF_{88} 3 15.2 281°.28 1°.1/16.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.77	− 2 15.1	2.216	3.036	12.1	20.3
2 21	11 58.58	− 2 15.4	2.127	3.030	9.1	20.1
3 2	11 51.60	− 2 4.7	2.063	3.023	5.7	19.8
3 12	11 43.45	− 1 45.5	2.027	3.017	2.0	19.6
3 22	11 34.92	− 1 21.4	2.020	3.011	2.6	19.6
4 1	11 26.88	− 0 56.7	2.042	3.004	6.3	19.8
4 11	11 20.13	− 0 35.8	2.091	2.998	9.8	20.0
4 21	11 15.22	− 0 22.1	2.164	2.992	12.8	20.2

425153 2009 SR_{337} 3 15.2 149°.56 4°.3/20.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.05	−15 29.1	2.434	3.188	13.1	21.9
2 21	11 57.88	−15 14.8	2.350	3.198	10.6	21.8
3 2	11 51.10	−14 40.7	2.289	3.208	7.9	21.6
3 12	11 43.31	−13 48.0	2.255	3.217	5.3	21.4
3 22	11 35.26	−12 40.5	2.250	3.225	4.4	21.4
4 1	11 27.74	−11 23.5	2.274	3.232	6.0	21.5
4 11	11 21.45	−10 3.9	2.326	3.239	8.6	21.7
4 21	11 16.88	− 8 47.9	2.404	3.246	11.3	21.9

303693 2005 NT_{80} 3 15.2 203°.48 3°.8/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.94	−14 12.0	2.717	3.477	11.7	21.5
2 21	11 55.54	−13 58.6	2.621	3.474	9.5	21.3
3 2	11 49.72	−13 28.0	2.548	3.471	7.0	21.2
3 12	11 42.98	−12 41.4	2.503	3.467	4.6	21.0
3 22	11 35.95	−11 41.9	2.486	3.464	3.8	20.9
4 1	11 29.31	−10 34.1	2.499	3.459	5.4	21.0
4 11	11 23.69	− 9 23.5	2.541	3.455	7.9	21.2
4 21	11 19.54	− 8 15.7	2.607	3.450	10.5	21.3

376807 2000 VK_5 3 15.2 236°.82 3°.6/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.40	+12 16.3	2.426	3.270	10.4	21.7
2 21	12 0.43	+13 4.2	2.336	3.253	7.7	21.5
3 2	11 52.67	+13 54.0	2.272	3.236	4.9	21.2
3 12	11 43.71	+14 40.1	2.238	3.217	3.6	21.1
3 22	11 34.35	+15 16.8	2.234	3.198	5.4	21.2
4 1	11 25.44	+15 40.0	2.259	3.178	8.4	21.4
4 11	11 17.78	+15 47.1	2.310	3.158	11.4	21.5
4 21	11 11.93	+15 37.9	2.384	3.136	14.0	21.7

36420 2000 OG_{60} 3 15.2 119°.94 0°.7/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.17	− 2 34.9	1.755	2.580	14.6	19.7
2 21	12 1.23	− 2 3.0	1.691	2.597	10.8	19.5
3 2	11 53.16	− 1 15.8	1.651	2.614	6.5	19.3
3 12	11 43.81	− 0 18.3	1.638	2.630	1.9	19.0
3 22	11 34.23	+ 0 42.9	1.654	2.645	3.0	19.1
4 1	11 25.49	+ 1 40.6	1.699	2.659	7.4	19.4
4 11	11 18.52	+ 2 28.6	1.769	2.673	11.4	19.7
4 21	11 13.83	+ 3 3.0	1.862	2.687	14.8	19.9

364769 2007 XR_{51} 3 15.2 143°.01 2°.9/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.33	+ 7 38.6	1.939	2.786	12.5	22.1
2 21	12 0.50	+ 8 36.8	1.876	2.797	9.0	21.9
3 2	11 52.69	+ 9 40.8	1.838	2.807	5.3	21.7
3 12	11 43.70	+10 43.5	1.829	2.816	2.9	21.6
3 22	11 34.47	+11 38.1	1.850	2.825	5.1	21.7
4 1	11 26.00	+12 19.0	1.898	2.834	8.7	21.9
4 11	11 19.12	+12 42.7	1.972	2.841	12.1	22.2
4 21	11 14.36	+12 48.7	2.067	2.848	15.0	22.4

378359 2007 LX_2 3 15.2 33°.95 12°.7/28.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 58.69	−30 41.7	1.065	1.806	27.2	20.4
2 21	11 56.55	−30 39.4	0.995	1.810	24.1	20.2
3 2	11 51.10	−29 39.1	0.936	1.814	20.3	20.0
3 12	11 43.41	−27 34.3	0.894	1.818	16.4	19.7
3 22	11 35.04	−24 27.7	0.871	1.823	13.3	19.6
4 1	11 27.84	−20 35.1	0.871	1.829	12.9	19.6
4 11	11 23.30	−16 23.2	0.894	1.834	15.5	19.7
4 21	11 22.17	−12 19.7	0.939	1.840	19.4	20.0

162724 2000 VW_2 3 15.2 105°.40 0°.8/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.79	+ 1 50.2	1.672	2.512	14.5	20.3
2 21	12 1.72	+ 2 26.3	1.614	2.530	10.6	20.1
3 2	11 53.45	+ 3 13.9	1.580	2.548	6.1	19.9
3 12	11 43.88	+ 4 6.8	1.574	2.566	1.5	19.6
3 22	11 34.12	+ 4 57.9	1.596	2.584	3.7	19.8
4 1	11 25.29	+ 5 40.7	1.646	2.600	8.2	20.1
4 11	11 18.33	+ 6 10.4	1.721	2.617	12.1	20.4
4 21	11 13.75	+ 6 24.8	1.817	2.632	15.4	20.6

173022 2006 QU_2 3 15.2 211°.30 0°.8/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.45	− 1 38.1	1.639	2.474	15.0	20.7
2 21	12 0.29	− 1 22.5	1.562	2.473	11.2	20.4
3 2	11 52.80	− 0 51.8	1.508	2.472	6.8	20.2
3 12	11 43.77	− 0 10.3	1.480	2.471	2.0	19.9
3 22	11 34.29	+ 0 36.0	1.480	2.471	3.2	19.9
4 1	11 25.54	+ 1 20.1	1.507	2.470	8.0	20.2
4 11	11 18.58	+ 1 55.7	1.559	2.469	12.3	20.5
4 21	11 14.04	+ 2 18.6	1.632	2.468	16.0	20.7

434987 2006 UM_{145} 3 15.2 183°.51 3°.3/19.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.24	−12 19.5	2.643	3.415	11.7	21.6
2 21	11 55.77	−12 2.0	2.551	3.415	9.3	21.4
3 2	11 49.85	−11 27.9	2.484	3.415	6.7	21.2
3 12	11 43.02	−10 38.8	2.443	3.415	4.1	21.1
3 22	11 35.91	− 9 38.2	2.432	3.414	3.4	21.0
4 1	11 29.21	− 8 30.9	2.451	3.413	5.3	21.2
4 11	11 23.57	− 7 22.5	2.497	3.412	8.1	21.3
4 21	11 19.43	− 6 18.3	2.569	3.410	10.7	21.5

8591 Excubitor 3 15.2 209°.60 0°.8/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.74	+ 2 50.4	2.890	3.721	9.3	18.8
2 21	11 55.99	+ 3 26.6	2.803	3.715	6.8	18.6
3 2	11 49.93	+ 4 9.7	2.742	3.709	3.9	18.4
3 12	11 43.03	+ 4 56.2	2.710	3.702	1.0	18.2
3 22	11 35.88	+ 5 41.8	2.710	3.695	2.6	18.3
4 1	11 29.10	+ 6 22.8	2.739	3.688	5.6	18.5
4 11	11 23.27	+ 6 55.6	2.796	3.681	8.4	18.6
4 21	11 18.81	+ 7 18.1	2.878	3.673	10.9	18.8

134183 2005 CL_{33} 3 15.2 203°.05 1°.1/14.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.71	+ 3 14.3	2.218	3.057	11.5	20.6
2 21	11 57.76	+ 3 50.4	2.139	3.055	8.3	20.4
3 2	11 51.09	+ 4 34.9	2.084	3.053	4.8	20.1
3 12	11 43.34	+ 5 23.2	2.059	3.051	1.3	19.9
3 22	11 35.27	+ 6 10.0	2.062	3.048	3.3	20.0
4 1	11 27.74	+ 6 50.0	2.095	3.045	7.0	20.2
4 11	11 21.49	+ 7 19.3	2.153	3.042	10.4	20.4
4 21	11 17.04	+ 7 35.4	2.235	3.039	13.3	20.6

4337 Arecibo 3 15.2 318°.28 0°.8/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.65	+ 2 35.8	2.233	3.073	11.3	17.2
2 21	11 56.28	+ 3 5.9	2.149	3.066	8.3	17.0
3 2	11 50.24	+ 3 44.9	2.091	3.059	4.8	16.7
3 12	11 43.14	+ 4 28.2	2.060	3.053	1.2	16.5
3 22	11 35.71	+ 5 11.1	2.059	3.046	3.1	16.6
4 1	11 28.76	+ 5 48.4	2.086	3.040	6.8	16.8
4 11	11 23.04	+ 6 16.0	2.139	3.034	10.2	17.0
4 21	11 19.04	+ 6 31.4	2.215	3.028	13.1	17.2

468214 2015 BZ_{73} 3 15.2 243°.88 2°.3/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.09	+ 6 28.5	2.198	3.043	11.3	21.0
2 21	11 58.16	+ 7 23.5	2.109	3.029	8.2	20.8
3 2	11 51.40	+ 8 26.0	2.046	3.015	4.8	20.6
3 12	11 43.44	+ 9 30.1	2.012	3.000	2.4	20.4
3 22	11 35.06	+10 29.5	2.007	2.985	4.5	20.5
4 1	11 27.14	+11 18.4	2.031	2.969	8.0	20.7
4 11	11 20.50	+11 52.4	2.080	2.953	11.4	20.8
4 21	11 15.71	+12 9.8	2.152	2.936	14.4	21.0

429664 2011 GA_{61} 3 15.2 300°.20 5°.6/ 9.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.63	+15 4.5	1.822	2.685	12.4	20.7
2 21	11 58.89	+16 9.2	1.745	2.670	9.3	20.5
3 2	11 51.96	+17 14.5	1.694	2.655	6.5	20.3
3 12	11 43.59	+18 11.9	1.669	2.640	5.7	20.2
3 22	11 34.75	+18 53.9	1.671	2.625	7.8	20.3
4 1	11 26.56	+19 14.9	1.698	2.611	11.1	20.4
4 11	11 19.98	+19 12.6	1.749	2.597	14.4	20.6
4 21	11 15.64	+18 48.0	1.819	2.583	17.3	20.8

57646 2001 TO_{202} 3 15.2 107°.36 3°.2/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 0.42	+ 9 30.5	2.380	3.232	10.3	19.0
2 21	11 55.92	+10 50.5	2.321	3.244	7.4	18.8
3 2	11 49.93	+12 14.3	2.289	3.257	4.5	18.7
3 12	11 43.05	+13 35.1	2.287	3.269	3.3	18.6
3 22	11 35.98	+14 46.7	2.315	3.280	5.1	18.7
4 1	11 29.47	+15 44.0	2.371	3.292	7.9	18.9
4 11	11 24.15	+16 24.0	2.452	3.303	10.7	19.1
4 21	11 20.45	+16 46.1	2.556	3.315	13.0	19.3

500714 2012 XL_{10} 3 15.2 154°.17 8°.7/29.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.11	+38 5.1	3.030	3.829	9.7	22.1
2 21	12 0.67	+39 19.3	3.000	3.837	8.9	22.0
3 2	11 52.64	+40 18.6	2.996	3.844	8.7	22.0
3 12	11 43.69	+40 57.6	3.017	3.851	9.1	22.0
3 22	11 34.63	+41 13.1	3.063	3.858	10.0	22.1
4 1	11 26.27	+41 4.4	3.131	3.864	11.2	22.2
4 11	11 19.28	+40 33.2	3.220	3.869	12.4	22.3
4 21	11 14.09	+39 42.7	3.324	3.874	13.5	22.4

199152 2005 YG_{156} 3 15.2 194°.15 0°.9/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.98	+ 1 37.1	1.676	2.516	14.5	21.5
2 21	12 1.39	+ 2 19.6	1.598	2.515	10.6	21.3
3 2	11 53.45	+ 3 15.4	1.544	2.513	6.2	21.0
3 12	11 43.96	+ 4 18.3	1.518	2.510	1.5	20.7
3 22	11 34.00	+ 5 20.7	1.519	2.507	3.9	20.9
4 1	11 24.78	+ 6 15.0	1.549	2.503	8.6	21.1
4 11	11 17.35	+ 6 55.2	1.603	2.499	12.9	21.4
4 21	11 12.35	+ 7 18.2	1.679	2.494	16.5	21.6

203372 2001 WK_{78} 3 15.2 327°.65 5°.9/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.50	+12 23.0	1.302	2.175	15.7	19.8
2 21	12 0.84	+13 33.9	1.239	2.170	11.6	19.6
3 2	11 53.33	+14 48.7	1.198	2.165	7.6	19.3
3 12	11 43.95	+15 56.1	1.181	2.161	6.0	19.2
3 22	11 34.06	+16 45.5	1.190	2.157	8.7	19.3
4 1	11 25.16	+17 9.3	1.223	2.153	12.9	19.6
4 11	11 18.50	+17 5.1	1.277	2.149	17.1	19.8
4 21	11 14.79	+16 34.6	1.348	2.146	20.7	20.0

292155 2006 RN_{102} 3 15.2 109°.91 1°.0/14.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.90	+ 4 18.4	2.403	3.239	10.8	20.8
2 21	11 58.42	+ 4 39.1	2.333	3.248	7.8	20.7
3 2	11 51.39	+ 5 5.8	2.290	3.258	4.5	20.5
3 12	11 43.42	+ 5 34.5	2.275	3.267	1.3	20.2
3 22	11 35.26	+ 6 1.2	2.290	3.276	3.1	20.4
4 1	11 27.67	+ 6 21.9	2.335	3.285	6.4	20.6
4 11	11 21.32	+ 6 33.8	2.406	3.294	9.5	20.8
4 21	11 16.66	+ 6 35.1	2.501	3.302	12.1	21.0

77752 2001 PD_{5} 3 15.2 342°.21 1°.2/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.05	+ 4 45.6	2.062	2.903	12.1	19.1
2 21	11 59.57	+ 4 58.1	1.985	2.902	8.8	18.9
3 2	11 52.21	+ 5 17.2	1.932	2.901	5.1	18.7
3 12	11 43.65	+ 5 38.4	1.908	2.900	1.5	18.4
3 22	11 34.77	+ 5 57.4	1.913	2.899	3.5	18.6
4 1	11 26.50	+ 6 9.8	1.946	2.898	7.3	18.8
4 11	11 19.68	+ 6 12.4	2.005	2.897	10.9	19.0
4 21	11 14.83	+ 6 3.7	2.087	2.897	13.9	19.2

469252 2016 JD_{24} 3 15.2 39°.51 3°.2/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.23	+ 7 38.3	1.783	2.641	12.9	20.8
2 21	11 57.73	+ 8 44.2	1.717	2.643	9.3	20.6
3 2	11 51.21	+ 9 57.1	1.675	2.645	5.5	20.4
3 12	11 43.41	+11 9.4	1.661	2.647	3.2	20.2
3 22	11 35.29	+12 13.0	1.674	2.650	5.5	20.4
4 1	11 27.88	+13 1.5	1.715	2.652	9.3	20.6
4 11	11 22.06	+13 30.8	1.779	2.654	12.9	20.8
4 21	11 18.37	+13 39.9	1.864	2.657	16.0	21.0

464338 2016 AL_{113} 3 15.2 163°.11 2°.9/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.51	− 6 56.9	1.883	2.684	14.7	21.3
2 21	12 3.03	− 7 5.9	1.803	2.689	11.4	21.1
3 2	11 54.33	− 6 58.3	1.746	2.695	7.6	20.9
3 12	11 44.19	− 6 35.9	1.717	2.699	3.9	20.7
3 22	11 33.63	− 6 2.5	1.716	2.703	3.5	20.7
4 1	11 23.77	− 5 23.7	1.744	2.706	7.1	20.9
4 11	11 15.60	− 4 45.7	1.799	2.709	10.9	21.1
4 21	11 9.74	− 4 13.8	1.877	2.711	14.3	21.3

227683 2006 CO_{49} 3 15.2 16°.34 1°.6/16.6 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.60	− 3 46.9	1.781	2.607	14.4	19.9
2 21	11 58.79	− 3 41.6	1.704	2.608	10.9	19.7
3 2	11 51.86	− 3 20.9	1.650	2.610	6.8	19.5
3 12	11 43.59	− 2 48.1	1.622	2.611	2.7	19.2
3 22	11 34.92	− 2 8.1	1.622	2.613	3.0	19.2
4 1	11 26.92	− 1 27.0	1.650	2.615	7.2	19.5
4 11	11 20.52	− 0 51.0	1.703	2.618	11.2	19.7
4 21	11 16.32	− 0 24.6	1.779	2.620	14.6	20.0

190716 2001 KH_{32} 3 15.2 199°.84 1°.5/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 7.22	+ 3 0.7	1.956	2.791	12.9	21.1
2 21	12 1.33	+ 3 56.1	1.872	2.787	9.4	20.9
3 2	11 53.33	+ 5 2.8	1.814	2.782	5.4	20.7
3 12	11 43.95	+ 6 14.5	1.784	2.776	1.7	20.4
3 22	11 34.13	+ 7 24.0	1.784	2.769	4.0	20.5
4 1	11 24.90	+ 8 24.2	1.814	2.760	8.2	20.8
4 11	11 17.22	+ 9 9.8	1.869	2.751	12.0	21.0
4 21	11 11.70	+ 9 38.1	1.946	2.741	15.3	21.2

238468 2004 RA_{64} 3 15.2 251°.39 0°.1/15.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.06	− 0 19.7	1.668	2.503	14.8	21.4
2 21	12 1.68	+ 0 5.5	1.574	2.487	11.0	21.2
3 2	11 53.78	+ 0 45.7	1.504	2.470	6.6	20.9
3 12	11 44.11	+ 1 36.4	1.460	2.452	1.7	20.5
3 22	11 33.74	+ 2 31.0	1.445	2.434	3.5	20.6
4 1	11 23.92	+ 3 21.9	1.456	2.416	8.6	20.8
4 11	11 15.83	+ 4 2.4	1.493	2.397	13.2	21.0
4 21	11 10.26	+ 4 27.9	1.551	2.377	17.2	21.2

413084 2001 TJ_{123} 3 15.2 89°.75 2°.4/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.38	− 7 24.6	2.018	2.816	14.0	21.4
2 21	12 1.07	− 7 10.9	1.962	2.848	10.7	21.2
3 2	11 52.95	− 6 40.8	1.931	2.880	6.9	21.0
3 12	11 43.81	− 5 57.4	1.927	2.911	3.4	20.9
3 22	11 34.58	− 5 5.8	1.953	2.941	3.0	20.9
4 1	11 26.19	− 4 12.0	2.007	2.970	6.3	21.2
4 11	11 19.38	− 3 22.0	2.090	2.999	9.6	21.4
4 21	11 14.61	− 2 40.3	2.196	3.027	12.6	21.7

368745 2005 US_{407} 3 15.2 208°.11 0°.1/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.29	+ 0 6.6	2.211	3.038	11.9	22.6
2 21	11 58.98	+ 0 38.6	2.124	3.033	8.8	22.3
3 2	11 51.87	+ 1 21.7	2.062	3.027	5.2	22.1
3 12	11 43.59	+ 2 11.7	2.029	3.021	1.2	21.8
3 22	11 34.94	+ 3 3.4	2.025	3.014	2.8	21.9
4 1	11 26.79	+ 3 51.3	2.050	3.006	6.7	22.2
4 11	11 19.95	+ 4 30.5	2.103	2.999	10.3	22.4
4 21	11 14.95	+ 4 57.9	2.179	2.990	13.3	22.5

117750 2005 GF_{48} 3 15.2 42°.73 0°.8/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.57	+ 0 47.2	1.310	2.167	16.7	20.1
2 21	11 59.18	+ 1 29.0	1.255	2.179	12.2	19.8
3 2	11 52.22	+ 2 26.7	1.221	2.192	7.0	19.6
3 12	11 43.68	+ 3 32.7	1.212	2.205	1.6	19.2
3 22	11 34.85	+ 4 37.7	1.229	2.218	4.2	19.5
4 1	11 27.06	+ 5 32.8	1.271	2.232	9.3	19.8
4 11	11 21.38	+ 6 11.4	1.336	2.246	13.9	20.1
4 21	11 18.38	+ 6 30.5	1.421	2.261	17.7	20.4

388856 2008 GD_{106} 3 15.2 276°.49 1°.9/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 57.97	− 8 28.2	2.589	3.386	11.3	21.4
2 21	11 54.20	− 7 45.9	2.490	3.376	8.7	21.2
3 2	11 49.01	− 6 47.4	2.416	3.365	5.8	21.0
3 12	11 42.89	− 5 35.6	2.370	3.354	2.8	20.8
3 22	11 36.46	− 4 15.1	2.354	3.344	2.4	20.7
4 1	11 30.40	− 2 51.6	2.368	3.333	5.3	20.9
4 11	11 25.34	− 1 31.4	2.410	3.322	8.4	21.1
4 21	11 21.75	− 0 19.4	2.477	3.312	11.2	21.3

337042 1995 XG_{4} 3 15.2 111°.33 0°.3/15.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.67	− 1 48.9	2.596	3.416	10.6	21.5
2 21	11 56.00	− 1 11.7	2.526	3.430	7.8	21.3
3 2	11 49.96	− 0 24.1	2.481	3.444	4.6	21.2
3 12	11 43.11	+ 0 29.9	2.466	3.457	1.3	20.9
3 22	11 36.08	+ 1 26.0	2.481	3.471	2.2	21.0
4 1	11 29.55	+ 2 19.3	2.525	3.484	5.5	21.3
4 11	11 24.10	+ 3 5.6	2.597	3.496	8.4	21.5
4 21	11 20.14	+ 3 42.0	2.694	3.509	11.0	21.7

461386 2001 PZ_{31} 3 15.2 200°.38 2°.4/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.99	+ 8 17.6	2.221	3.061	11.4	21.9
2 21	12 1.64	+ 8 48.8	2.140	3.057	8.3	21.7
3 2	11 53.41	+ 9 24.1	2.085	3.053	4.9	21.4
3 12	11 43.98	+ 9 58.3	2.060	3.047	2.5	21.3
3 22	11 34.20	+10 26.3	2.064	3.042	4.4	21.4
4 1	11 25.01	+10 43.9	2.098	3.035	7.9	21.6
4 11	11 17.23	+10 48.3	2.158	3.028	11.1	21.8
4 21	11 11.42	+10 38.8	2.240	3.021	14.0	22.0

187907 2000 UH_{37} 3 15.2 202°.64 0°.1/15.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.28	− 0 8.8	2.715	3.533	10.2	22.1
2 21	11 57.96	+ 0 31.2	2.622	3.527	7.5	21.9
3 2	11 51.17	+ 1 20.9	2.557	3.521	4.4	21.7
3 12	11 43.43	+ 2 16.7	2.521	3.513	1.1	21.4
3 22	11 35.38	+ 3 13.9	2.516	3.505	2.4	21.5
4 1	11 27.73	+ 4 7.9	2.542	3.496	5.7	21.7
4 11	11 21.12	+ 4 54.2	2.596	3.486	8.8	21.9
4 21	11 16.01	+ 5 30.2	2.675	3.475	11.4	22.0

422152 2014 *RD* 3 15.2 117°.76 2°.2/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 7.02	+ 6 42.0	2.252	3.090	11.3	21.8
2 21	12 0.69	+ 7 29.8	2.197	3.113	8.1	21.6
3 2	11 52.70	+ 8 22.5	2.169	3.136	4.7	21.5
3 12	11 43.77	+ 9 14.5	2.170	3.158	2.2	21.3
3 22	11 34.74	+10 0.2	2.201	3.180	4.1	21.5
4 1	11 26.43	+10 35.3	2.262	3.200	7.3	21.7
4 11	11 19.56	+10 56.9	2.350	3.220	10.4	22.0
4 21	11 14.55	+11 4.3	2.460	3.238	12.9	22.2

201523 2003 QX_8 3 15.2 211°.57 1°.8/17.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.85	− 5 53.8	2.399	3.202	11.9	21.3
2 21	11 57.84	− 5 35.4	2.306	3.197	9.1	21.1
3 2	11 51.18	− 5 3.0	2.238	3.190	5.9	20.9
3 12	11 43.44	− 4 19.3	2.198	3.184	2.6	20.7
3 22	11 35.34	− 3 28.1	2.187	3.177	2.5	20.7
4 1	11 27.69	− 2 34.6	2.206	3.169	5.8	20.9
4 11	11 21.20	− 1 44.2	2.253	3.161	9.1	21.1
4 21	11 16.40	− 1 1.3	2.324	3.153	12.1	21.3

357994 2006 DC_{35} 3 15.2 342°.51 0°.4/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.89	− 0 41.9	1.378	2.229	16.4	20.8
2 21	11 58.79	+ 0 5.8	1.306	2.227	12.1	20.5
3 2	11 52.10	+ 1 12.4	1.256	2.225	7.1	20.3
3 12	11 43.70	+ 2 30.9	1.231	2.224	1.7	19.9
3 22	11 34.80	+ 3 51.8	1.233	2.222	4.0	20.1
4 1	11 26.73	+ 5 4.9	1.260	2.221	9.3	20.4
4 11	11 20.65	+ 6 1.9	1.310	2.220	14.1	20.6
4 21	11 17.24	+ 6 38.3	1.381	2.220	18.2	20.9

465426 2008 PM_{21} 3 15.2 250°.81 3°.8/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.25	+12 9.5	2.377	3.224	10.5	22.0
2 21	11 59.71	+13 8.1	2.283	3.202	7.7	21.8
3 2	11 52.35	+14 9.7	2.216	3.179	5.0	21.6
3 12	11 43.75	+15 8.0	2.177	3.155	3.9	21.4
3 22	11 34.68	+15 57.0	2.169	3.131	5.7	21.5
4 1	11 26.02	+16 31.5	2.189	3.106	8.8	21.7
4 11	11 18.59	+16 48.7	2.235	3.080	11.8	21.8
4 21	11 12.96	+16 48.1	2.303	3.054	14.5	22.0

54293 2000 JB_{59} 3 15.2 223°.63 4°.9/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.73	+16 22.7	2.399	3.252	10.2	18.2
2 21	11 57.73	+17 26.7	2.329	3.247	7.6	18.0
3 2	11 51.09	+18 29.5	2.286	3.242	5.5	17.9
3 12	11 43.41	+19 24.7	2.271	3.237	5.0	17.9
3 22	11 35.46	+20 6.6	2.285	3.231	6.6	17.9
4 1	11 28.05	+20 31.4	2.327	3.225	9.2	18.1
4 11	11 21.87	+20 37.3	2.393	3.219	11.7	18.2
4 21	11 17.43	+20 24.9	2.479	3.212	14.0	18.4

46859 1998 QB_{51} 3 15.2 263°.06 1°.1/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.35	+ 1 29.4	1.783	2.626	13.6	19.4
2 21	11 58.79	+ 2 23.7	1.691	2.609	10.0	19.2
3 2	11 52.01	+ 3 32.6	1.623	2.592	5.8	18.9
3 12	11 43.69	+ 4 50.0	1.582	2.574	1.5	18.5
3 22	11 34.79	+ 6 8.0	1.569	2.556	4.0	18.7
4 1	11 26.41	+ 7 18.3	1.584	2.538	8.6	18.9
4 11	11 19.57	+ 8 14.1	1.625	2.519	12.8	19.1
4 21	11 14.96	+ 8 51.3	1.686	2.500	16.5	19.3

138694 2000 SV_{59} 3 15.2 248°.50 2°.0/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 58.59	− 9 31.6	2.467	3.260	11.9	20.2
2 21	11 54.71	− 8 35.1	2.370	3.253	9.2	20.0
3 2	11 49.33	− 7 20.1	2.299	3.246	6.1	19.8
3 12	11 42.99	− 5 50.1	2.256	3.239	3.0	19.6
3 22	11 36.34	− 4 10.4	2.243	3.232	2.5	19.6
4 1	11 30.10	− 2 27.9	2.260	3.225	5.5	19.8
4 11	11 24.94	− 0 49.9	2.306	3.217	8.8	19.9
4 21	11 21.32	+ 0 37.9	2.377	3.210	11.7	20.1

13676 1997 MA_4 3 15.2 50°.85 0°.1/15.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.65	− 0 21.2	1.989	2.822	12.8	18.6
2 21	11 57.90	+ 0 4.6	1.912	2.823	9.4	18.4
3 2	11 51.28	+ 0 42.4	1.859	2.825	5.6	18.2
3 12	11 43.47	+ 1 27.8	1.834	2.826	1.4	17.9
3 22	11 35.34	+ 2 15.5	1.837	2.827	2.9	18.0
4 1	11 27.80	+ 2 59.5	1.869	2.828	6.9	18.2
4 11	11 21.69	+ 3 34.8	1.927	2.830	10.7	18.5
4 21	11 17.54	+ 3 58.0	2.007	2.831	13.8	18.7

182480 2001 SQ_{130} 3 15.2 262°.03 0°.1/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.28	+ 0 44.3	1.913	2.745	13.3	21.5
2 21	12 0.84	+ 1 0.5	1.816	2.727	9.9	21.2
3 2	11 53.18	+ 1 28.1	1.743	2.708	5.9	20.9
3 12	11 43.98	+ 2 3.4	1.697	2.689	1.4	20.6
3 22	11 34.19	+ 2 41.1	1.681	2.670	3.2	20.7
4 1	11 24.87	+ 3 15.4	1.692	2.650	7.7	20.9
4 11	11 17.05	+ 3 41.0	1.730	2.630	11.8	21.1
4 21	11 11.42	+ 3 54.4	1.790	2.610	15.5	21.3

425081 2009 RO_{72} 3 15.2 35°.20 3°.4/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 58.28	−12 18.3	1.496	2.307	17.4	20.7
2 21	11 55.13	−11 19.2	1.431	2.320	13.6	20.5
3 2	11 49.79	− 9 50.3	1.386	2.334	9.3	20.3
3 12	11 43.11	− 7 56.8	1.367	2.348	5.0	20.1
3 22	11 36.15	− 5 48.4	1.374	2.364	3.8	20.0
4 1	11 30.01	− 3 37.4	1.409	2.379	7.5	20.3
4 11	11 25.63	− 1 36.1	1.469	2.396	11.7	20.5
4 21	11 23.53	+ 0 6.9	1.552	2.412	15.4	20.8

14375 1989 *SU* 3 15.2 226°.61 1°.8/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.81	− 5 42.5	2.234	3.039	12.6	18.6
2 21	11 59.45	− 5 26.3	2.136	3.027	9.7	18.4
3 2	11 52.22	− 4 55.2	2.062	3.015	6.2	18.2
3 12	11 43.73	− 4 11.7	2.016	3.002	2.8	17.9
3 22	11 34.77	− 3 20.0	1.999	2.988	2.7	17.9
4 1	11 26.24	− 2 25.5	2.012	2.974	6.3	18.1
4 11	11 18.99	− 1 34.2	2.052	2.959	9.9	18.3
4 21	11 13.61	− 0 50.8	2.116	2.944	13.1	18.4

270443 2002 CN_{142} 3 15.2 104°.87 2°.7/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.29	− 8 57.1	2.279	3.065	12.9	21.8
2 21	12 0.17	− 8 43.4	2.216	3.093	10.0	21.6
3 2	11 52.42	− 8 13.6	2.178	3.121	6.7	21.5
3 12	11 43.72	− 7 30.6	2.167	3.148	3.6	21.3
3 22	11 34.89	− 6 38.5	2.187	3.173	3.1	21.3
4 1	11 26.76	− 5 42.8	2.236	3.198	5.8	21.5
4 11	11 20.02	− 4 49.3	2.314	3.223	8.9	21.8
4 21	11 15.12	− 4 2.4	2.416	3.246	11.6	22.0

41211 1999 XB_1 3 15.2 241°.72 3°.1/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.81	+11 6.8	2.686	3.537	9.3	18.1
2 21	11 55.45	+12 4.3	2.610	3.532	6.7	17.9
3 2	11 49.70	+13 4.4	2.560	3.526	4.3	17.8
3 12	11 43.07	+14 1.6	2.541	3.520	3.2	17.7
3 22	11 36.20	+14 51.2	2.550	3.515	4.8	17.8
4 1	11 29.75	+15 28.9	2.588	3.509	7.4	17.9
4 11	11 24.33	+15 52.2	2.652	3.503	10.0	18.1
4 21	11 20.36	+16 0.3	2.738	3.497	12.2	18.2

301232 2009 BY_{24} 3 15.2 45°.59 2°.7/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.23	+ 4 44.4	1.274	2.140	16.5	20.5
2 21	11 59.74	+ 5 42.3	1.220	2.150	11.9	20.2
3 2	11 52.59	+ 6 52.1	1.189	2.162	6.8	20.0
3 12	11 43.81	+ 8 4.3	1.182	2.173	2.7	19.7
3 22	11 34.73	+ 9 8.8	1.201	2.185	5.6	19.9
4 1	11 26.74	+ 9 56.8	1.245	2.197	10.5	20.3
4 11	11 20.94	+10 23.3	1.312	2.210	15.0	20.5
4 21	11 17.90	+10 27.3	1.397	2.223	18.7	20.8

506259 2016 PY_{70} 3 15.2 259°.02 5°.4/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.48	+18 54.1	2.542	3.394	9.7	21.6
2 21	11 57.57	+20 3.2	2.463	3.377	7.5	21.4
3 2	11 51.02	+21 10.1	2.412	3.361	5.8	21.3
3 12	11 43.42	+22 8.3	2.389	3.344	5.6	21.3
3 22	11 35.47	+22 52.1	2.394	3.326	7.2	21.3
4 1	11 27.97	+23 17.6	2.427	3.309	9.5	21.5
4 11	11 21.64	+23 23.3	2.484	3.291	11.9	21.6
4 21	11 16.97	+23 9.9	2.560	3.273	14.1	21.7

433747 2015 AX_{257} 3 15.2 37°.41 2°.1/16.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.31	− 3 47.5	1.497	2.330	16.3	20.7
2 21	12 0.19	− 3 57.5	1.439	2.347	12.3	20.5
3 2	11 52.72	− 3 50.8	1.404	2.364	7.7	20.3
3 12	11 43.83	− 3 30.7	1.394	2.382	3.2	20.0
3 22	11 34.69	− 3 2.2	1.410	2.400	3.4	20.1
4 1	11 26.51	− 2 31.9	1.453	2.419	7.7	20.4
4 11	11 20.28	− 2 6.0	1.520	2.439	11.9	20.7
4 21	11 16.54	− 1 49.1	1.608	2.459	15.5	20.9

405842 2006 BQ_{223} 3 15.2 348°.04 1°.4/14.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.43	+ 1 23.2	1.082	1.957	18.0	20.6
2 21	11 56.79	+ 2 12.4	1.015	1.949	13.3	20.3
3 2	11 51.18	+ 3 22.0	0.968	1.942	7.7	19.9
3 12	11 43.54	+ 4 43.2	0.943	1.936	2.0	19.5
3 22	11 35.24	+ 6 4.0	0.942	1.931	5.2	19.7
4 1	11 27.90	+ 7 12.1	0.964	1.928	11.2	20.0
4 11	11 22.87	+ 7 58.4	1.007	1.926	16.5	20.3
4 21	11 20.92	+ 8 18.8	1.067	1.925	21.0	20.6

244198 2001 YP_{85} 3 15.2 113°.50 4°.2/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.29	+10 0.6	1.631	2.486	14.0	20.5
2 21	12 2.19	+11 9.2	1.579	2.504	10.1	20.3
3 2	11 53.81	+12 21.6	1.553	2.520	6.2	20.1
3 12	11 44.09	+13 28.9	1.554	2.536	4.2	20.1
3 22	11 34.20	+14 22.9	1.582	2.552	6.5	20.2
4 1	11 25.30	+14 57.7	1.638	2.567	10.3	20.5
4 11	11 18.34	+15 10.9	1.717	2.582	13.8	20.7
4 21	11 13.85	+15 3.4	1.816	2.595	16.8	21.0

212319 2005 QZ_{71} 3 15.2 221°.87 0°.0/15.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 59.99	− 0 37.9	2.834	3.656	9.7	21.1
2 21	11 55.54	+ 0 0.9	2.742	3.648	7.2	20.9
3 2	11 49.75	+ 0 49.2	2.676	3.640	4.2	20.7
3 12	11 43.10	+ 1 43.6	2.639	3.631	1.1	20.5
3 22	11 36.19	+ 2 40.0	2.632	3.622	2.2	20.5
4 1	11 29.62	+ 3 33.7	2.656	3.612	5.4	20.8
4 11	11 24.00	+ 4 20.6	2.708	3.603	8.3	20.9
4 21	11 19.75	+ 4 57.8	2.785	3.592	10.8	21.1

308726 2006 HB_{28} 3 15.2 77°.62 3°.2/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.72	+ 5 46.6	1.455	2.317	15.0	20.3
2 21	11 59.19	+ 7 3.8	1.394	2.323	10.8	20.0
3 2	11 52.23	+ 8 32.0	1.357	2.329	6.3	19.8
3 12	11 43.74	+10 1.4	1.346	2.335	3.2	19.6
3 22	11 34.90	+11 21.6	1.362	2.341	6.0	19.8
4 1	11 26.96	+12 23.8	1.404	2.347	10.4	20.1
4 11	11 20.97	+13 3.0	1.469	2.353	14.6	20.3
4 21	11 17.52	+13 18.0	1.553	2.359	18.0	20.6

112061 2002 JT_{14} 3 15.2 291°.28 2°.4/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.44	+ 5 57.7	1.869	2.721	12.6	19.8
2 21	11 57.96	+ 6 46.7	1.786	2.710	9.2	19.5
3 2	11 51.43	+ 7 44.5	1.728	2.698	5.4	19.3
3 12	11 43.55	+ 8 44.4	1.697	2.687	2.4	19.1
3 22	11 35.23	+ 9 39.5	1.694	2.675	4.7	19.2
4 1	11 27.47	+10 23.2	1.719	2.664	8.7	19.4
4 11	11 21.19	+10 51.0	1.768	2.653	12.5	19.6
4 21	11 17.02	+11 0.9	1.838	2.641	15.8	19.8

426190 2012 JB_{46} 3 15.2 328°.20 6°.2/ 9.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.39	+13 42.3	1.464	2.337	14.2	20.1
2 21	11 58.41	+14 59.8	1.395	2.326	10.6	19.8
3 2	11 51.89	+16 20.2	1.349	2.315	7.3	19.6
3 12	11 43.68	+17 32.8	1.329	2.304	6.3	19.5
3 22	11 34.97	+18 27.7	1.334	2.294	8.8	19.6
4 1	11 27.05	+18 57.5	1.364	2.285	12.6	19.8
4 11	11 21.05	+18 59.5	1.414	2.276	16.4	20.0
4 21	11 17.66	+18 35.0	1.482	2.268	19.7	20.2

381812 2009 VQ_{2} 3 15.2 245°.92 1°.3/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.25	− 3 10.5	2.304	3.112	12.1	20.5
2 21	12 1.26	− 3 7.8	2.197	3.093	9.2	20.3
3 2	11 53.32	− 2 53.4	2.116	3.072	5.8	20.0
3 12	11 44.04	− 2 29.4	2.062	3.051	2.2	19.7
3 22	11 34.20	− 1 59.4	2.039	3.029	2.6	19.7
4 1	11 24.72	− 1 27.7	2.047	3.007	6.4	19.9
4 11	11 16.49	− 0 59.1	2.081	2.984	10.0	20.1
4 21	11 10.13	− 0 37.6	2.140	2.960	13.3	20.3

324539 2006 WA_{17} 3 15.2 109°.77 2°.4/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.82	+ 5 33.3	1.796	2.646	13.2	21.2
2 21	11 59.54	+ 6 34.4	1.737	2.659	9.5	20.9
3 2	11 52.24	+ 7 43.6	1.702	2.672	5.5	20.7
3 12	11 43.73	+ 8 53.7	1.696	2.685	2.5	20.6
3 22	11 34.99	+ 9 57.0	1.717	2.697	4.8	20.7
4 1	11 27.04	+10 47.0	1.767	2.710	8.7	21.0
4 11	11 20.75	+11 19.7	1.841	2.721	12.3	21.2
4 21	11 16.63	+11 33.8	1.937	2.733	15.3	21.5

117073 2004 KP_{14} 3 15.2 253°.23 0°.5/15.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.09	− 3 23.0	2.608	3.425	10.6	20.4
2 21	11 55.03	− 2 30.6	2.510	3.412	7.9	20.2
3 2	11 49.53	− 1 24.9	2.437	3.398	4.8	20.0
3 12	11 43.08	− 0 9.7	2.393	3.384	1.4	19.7
3 22	11 36.29	+ 1 9.9	2.380	3.370	2.2	19.8
4 1	11 29.87	+ 2 28.1	2.397	3.356	5.7	20.0
4 11	11 24.44	+ 3 39.3	2.441	3.341	8.9	20.2
4 21	11 20.47	+ 4 39.4	2.511	3.326	11.7	20.3

126792 2002 EK_{21} 3 15.2 282°.89 1°.6/16.6 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.51	− 3 53.6	1.903	2.725	13.7	19.9
2 21	11 58.77	− 3 45.2	1.810	2.713	10.5	19.6
3 2	11 51.95	− 3 21.7	1.742	2.701	6.6	19.4
3 12	11 43.71	− 2 46.0	1.699	2.688	2.6	19.1
3 22	11 34.95	− 2 2.8	1.685	2.676	2.9	19.1
4 1	11 26.70	− 1 17.9	1.699	2.663	7.1	19.3
4 11	11 19.91	− 0 37.5	1.739	2.651	11.1	19.5
4 21	11 15.23	− 0 6.5	1.801	2.639	14.6	19.7

214231 2005 EA_{154} 3 15.2 286°.73 11°.9/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.36	+30 55.2	1.571	2.408	15.5	19.6
2 21	12 9.56	+31 58.5	1.504	2.390	13.3	19.5
3 2	11 58.51	+32 44.5	1.460	2.372	12.0	19.3
3 12	11 45.33	+33 0.7	1.439	2.353	12.2	19.3
3 22	11 31.64	+32 39.4	1.443	2.335	13.9	19.3
4 1	11 19.17	+31 38.6	1.470	2.317	16.5	19.4
4 11	11 9.33	+30 2.8	1.517	2.299	19.3	19.6
4 21	11 2.83	+28 0.1	1.581	2.281	21.9	19.7

288583 2004 JO 3 15.2 214°.54 0°.3/15.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.72	− 1 45.9	2.393	3.211	11.4	22.2
2 21	11 58.51	− 1 8.1	2.299	3.202	8.5	22.0
3 2	11 51.61	− 0 18.1	2.231	3.193	5.1	21.8
3 12	11 43.60	+ 0 40.4	2.191	3.183	1.4	21.5
3 22	11 35.22	+ 1 42.2	2.182	3.172	2.5	21.6
4 1	11 27.26	+ 2 41.8	2.203	3.160	6.2	21.8
4 11	11 20.48	+ 3 34.0	2.251	3.148	9.7	22.0
4 21	11 15.40	+ 4 15.0	2.324	3.134	12.6	22.2

465416 2008 KC_{36} 3 15.2 293°.68 6°.5/ 8.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.38	+14 34.2	1.671	2.541	13.0	21.1
2 21	11 57.48	+16 25.2	1.598	2.526	9.8	20.9
3 2	11 51.30	+18 20.1	1.550	2.511	7.1	20.7
3 12	11 43.56	+20 7.5	1.529	2.496	6.7	20.6
3 22	11 35.30	+21 36.7	1.535	2.481	9.2	20.7
4 1	11 27.66	+22 39.4	1.566	2.467	12.6	20.9
4 11	11 21.71	+23 12.2	1.619	2.452	16.0	21.1
4 21	11 18.10	+23 15.8	1.689	2.438	19.0	21.2

328338 2008 JV_{39} 3 15.2 223°.19 1°.4/16.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.96	− 4 50.5	2.015	2.832	13.3	21.6
2 21	11 58.22	− 4 21.0	1.927	2.826	10.1	21.3
3 2	11 51.55	− 3 35.2	1.862	2.820	6.4	21.1
3 12	11 43.60	− 2 36.6	1.825	2.813	2.5	20.8
3 22	11 35.24	− 1 30.7	1.816	2.807	2.7	20.8
4 1	11 27.40	− 0 24.2	1.836	2.799	6.7	21.1
4 11	11 20.95	+ 0 36.2	1.883	2.792	10.5	21.3
4 21	11 16.47	+ 1 25.4	1.952	2.784	13.9	21.5

138399 2000 HK_{11} 3 15.2 81°.27 4°.8/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.82	+13 54.3	1.641	2.494	14.1	19.4
2 21	12 4.76	+14 21.3	1.587	2.508	10.4	19.2
3 2	11 55.31	+14 46.6	1.558	2.521	6.7	19.0
3 12	11 44.49	+15 3.0	1.555	2.535	4.8	18.9
3 22	11 33.52	+15 5.0	1.581	2.548	6.8	19.0
4 1	11 23.65	+14 49.4	1.633	2.562	10.4	19.3
4 11	11 15.86	+14 15.9	1.710	2.575	13.8	19.5
4 21	11 10.67	+13 26.8	1.807	2.588	16.8	19.7

8947 Mizutani 3 15.2 128°.62 3°.3/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.61	+ 9 52.0	2.291	3.140	10.8	18.6
2 21	11 58.30	+11 0.0	2.233	3.154	7.8	18.4
3 2	11 51.39	+12 11.2	2.201	3.168	4.8	18.2
3 12	11 43.52	+13 19.1	2.199	3.181	3.3	18.1
3 22	11 35.48	+14 17.5	2.226	3.194	5.1	18.3
4 1	11 28.06	+15 1.9	2.282	3.206	8.1	18.5
4 11	11 21.96	+15 29.4	2.364	3.218	10.9	18.7
4 21	11 17.61	+15 39.9	2.467	3.229	13.3	18.9

70363 1999 RJ_{193} 3 15.2 155°.16 5°.4/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.53	+13 20.7	1.635	2.497	13.7	19.3
2 21	12 1.09	+14 30.9	1.574	2.499	10.1	19.1
3 2	11 53.29	+15 42.5	1.537	2.501	6.7	18.9
3 12	11 44.03	+16 46.2	1.527	2.503	5.5	18.9
3 22	11 34.42	+17 33.6	1.544	2.505	7.7	19.0
4 1	11 25.69	+17 59.1	1.587	2.506	11.3	19.2
4 11	11 18.84	+18 0.6	1.653	2.508	14.8	19.4
4 21	11 14.47	+17 39.5	1.738	2.509	17.7	19.6

330964 2009 SF_{346} 3 15.2 160°.13 1°.5/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.85	+ 3 37.3	2.009	2.851	12.3	22.1
2 21	11 58.76	+ 4 24.7	1.937	2.855	9.0	21.9
3 2	11 51.79	+ 5 21.4	1.889	2.858	5.1	21.7
3 12	11 43.65	+ 6 21.6	1.869	2.861	1.6	21.5
3 22	11 35.21	+ 7 18.9	1.879	2.864	3.8	21.6
4 1	11 27.39	+ 8 7.3	1.917	2.866	7.7	21.8
4 11	11 21.03	+ 8 42.2	1.981	2.868	11.2	22.1
4 21	11 16.63	+ 9 1.7	2.067	2.870	14.3	22.3

210441 2008 YW_{127} 3 15.2 154°.27 0°.8/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.99	+ 1 15.0	1.672	2.513	14.5	21.8
2 21	12 0.64	+ 1 59.8	1.601	2.518	10.6	21.6
3 2	11 53.02	+ 2 57.9	1.554	2.523	6.1	21.3
3 12	11 43.97	+ 4 3.0	1.535	2.527	1.5	21.0
3 22	11 34.54	+ 5 7.4	1.543	2.531	3.8	21.2
4 1	11 25.90	+ 6 3.6	1.579	2.534	8.4	21.5
4 11	11 19.03	+ 6 45.7	1.640	2.537	12.6	21.7
4 21	11 14.53	+ 7 10.6	1.722	2.539	16.1	22.0

87773 2000 SR_{98} 3 15.2 211°.31 0°.8/16.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.54	− 2 20.7	2.175	2.994	12.4	20.5
2 21	11 59.23	− 2 2.0	2.087	2.989	9.3	20.3
3 2	11 52.09	− 1 30.8	2.023	2.984	5.7	20.1
3 12	11 43.74	− 0 50.4	1.987	2.978	1.8	19.8
3 22	11 35.00	− 0 5.4	1.981	2.971	2.6	19.8
4 1	11 26.77	+ 0 38.7	2.004	2.965	6.5	20.1
4 11	11 19.86	+ 1 17.0	2.054	2.958	10.1	20.3
4 21	11 14.83	+ 1 45.5	2.127	2.950	13.2	20.5

279107 2009 AB_{28} 3 15.2 113°.42 4°.8/20.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.07	−15 26.8	2.464	3.216	13.0	21.5
2 21	11 58.66	−15 41.4	2.387	3.231	10.6	21.3
3 2	11 51.63	−15 37.8	2.332	3.246	8.0	21.2
3 12	11 43.61	−15 16.6	2.304	3.260	5.7	21.0
3 22	11 35.33	−14 40.3	2.304	3.274	4.8	21.0
4 1	11 27.58	−13 53.0	2.333	3.287	6.1	21.1
4 11	11 21.08	−13 0.6	2.390	3.301	8.5	21.3
4 21	11 16.29	−12 8.5	2.471	3.313	11.0	21.5

501477 2014 BW_{54} 3 15.2 124°.34 2°.2/17.7 17

2 11	12 2.85	− 6 41.3	2.485	3.284	11.6	21.8
2 21	11 57.73	− 6 39.5	2.405	3.291	9.0	21.6
3 2	11 51.08	− 6 24.8	2.349	3.298	5.9	21.4
3 12	11 43.47	− 5 59.2	2.321	3.304	3.0	21.2
3 22	11 35.61	− 5 25.9	2.323	3.311	2.7	21.2
4 1	11 28.23	− 4 49.2	2.354	3.317	5.5	21.4
4 11	11 22.02	− 4 13.7	2.413	3.324	8.5	21.6
4 21	11 17.43	− 3 43.1	2.496	3.330	11.2	21.8

359097 2009 AV_{33} 3 15.2 271°.70 2°.4/13.3 16

2 11	12 5.79	+ 5 10.6	1.542	2.397	14.7	21.3
2 21	12 0.88	+ 5 56.2	1.458	2.382	10.8	21.0
3 2	11 53.40	+ 6 53.1	1.396	2.367	6.3	20.7
3 12	11 44.12	+ 7 54.1	1.361	2.352	2.5	20.4
3 22	11 34.18	+ 8 50.7	1.353	2.336	5.2	20.5
4 1	11 24.90	+ 9 34.7	1.372	2.321	10.0	20.8
4 11	11 17.48	+10 0.6	1.413	2.305	14.5	21.0
4 21	11 12.68	+10 6.0	1.475	2.289	18.4	21.2

271711 2004 RN_{191} 3 15.2 145°.35 1°.4/16.6 17

2 11	12 5.74	− 3 41.3	2.227	3.038	12.4	20.6
2 21	11 59.97	− 3 35.4	2.149	3.046	9.4	20.4
3 2	11 52.44	− 3 17.3	2.096	3.053	5.9	20.2
3 12	11 43.82	− 2 49.5	2.071	3.060	2.3	20.0
3 22	11 34.91	− 2 16.1	2.076	3.066	2.6	20.0
4 1	11 26.58	− 1 41.8	2.111	3.072	6.1	20.2
4 11	11 19.61	− 1 11.2	2.172	3.078	9.5	20.5
4 21	11 14.50	− 0 48.0	2.258	3.083	12.5	20.7

149431 2003 BK_{52} 3 15.2 258°.25 6°.1/20.2 17

2 11	12 7.04	−14 48.2	1.975	2.740	15.4	19.6
2 21	12 1.49	−15 30.5	1.875	2.727	12.7	19.4
3 2	11 53.65	−15 53.1	1.796	2.713	9.8	19.2
3 12	11 44.19	−15 54.5	1.742	2.699	7.1	19.0
3 22	11 34.03	−15 35.6	1.716	2.685	6.2	18.9
4 1	11 24.29	−15 0.2	1.717	2.671	8.0	19.0
4 11	11 16.05	−14 14.9	1.744	2.656	11.1	19.1
4 21	11 10.05	−13 27.0	1.794	2.641	14.3	19.3

330881 2009 RL_{33} 3 15.2 178°.63 0°.2/15.0 16

2 11	12 4.65	+ 0 28.6	2.654	3.473	10.4	22.1
2 21	11 58.96	+ 1 1.4	2.570	3.476	7.6	21.9
3 2	11 51.77	+ 1 43.1	2.513	3.477	4.5	21.7
3 12	11 43.65	+ 2 29.9	2.486	3.478	1.1	21.4
3 22	11 35.27	+ 3 17.6	2.490	3.478	2.4	21.6
4 1	11 27.35	+ 4 1.7	2.524	3.478	5.8	21.8
4 11	11 20.54	+ 4 38.3	2.587	3.476	8.8	22.0
4 21	11 15.30	+ 5 4.8	2.674	3.474	11.5	22.1

253271 2003 AU_{76} 3 15.2 39°.04 8°.7/ 8.4 18

2 11	12 8.63	+21 57.8	1.470	2.334	14.8	19.5
2 21	12 2.76	+23 3.9	1.426	2.343	11.6	19.3
3 2	11 54.27	+24 0.4	1.405	2.352	9.3	19.2
3 12	11 44.27	+24 36.7	1.409	2.362	8.9	19.2
3 22	11 34.11	+24 45.9	1.438	2.372	10.8	19.3
4 1	11 25.16	+24 25.4	1.491	2.383	13.7	19.5
4 11	11 18.45	+23 37.3	1.564	2.394	16.7	19.8
4 21	11 14.51	+22 26.5	1.655	2.405	19.3	20.0

245175 2004 TL_{136} 3 15.2 86°.97 1°.8/16.9 18

2 11	12 6.15	− 4 42.8	2.002	2.814	13.6	20.6
2 21	12 0.31	− 4 36.5	1.940	2.836	10.2	20.5
3 2	11 52.63	− 4 15.9	1.902	2.858	6.5	20.3
3 12	11 43.86	− 3 44.2	1.892	2.879	2.7	20.1
3 22	11 34.92	− 3 6.0	1.911	2.901	2.8	20.1
4 1	11 26.73	− 2 26.6	1.959	2.922	6.4	20.4
4 11	11 20.09	− 1 51.3	2.033	2.943	9.9	20.6
4 21	11 15.46	− 1 24.1	2.131	2.963	12.9	20.9

82486 2001 OX_{36} 3 15.2 236°.11 0°.4/14.9 18

2 11	12 5.88	+ 1 15.3	1.870	2.706	13.4	19.8
2 21	12 0.50	+ 1 37.7	1.785	2.698	9.9	19.6
3 2	11 52.96	+ 2 11.4	1.724	2.690	5.8	19.3
3 12	11 44.00	+ 2 51.9	1.690	2.682	1.4	19.0
3 22	11 34.56	+ 3 33.6	1.685	2.674	3.3	19.1
4 1	11 25.71	+ 4 10.5	1.708	2.665	7.7	19.3
4 11	11 18.42	+ 4 37.4	1.756	2.656	11.7	19.6
4 21	11 13.32	+ 4 51.3	1.827	2.646	15.2	19.8

208172 2000 QM_{15} 3 15.2 235°.01 0°.1/15.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 1.25	− 0 31.6	2.795	3.615	9.9	21.7
2 21	11 56.53	+ 0 0.7	2.696	3.601	7.3	21.5
3 2	11 50.39	+ 0 42.4	2.624	3.588	4.3	21.3
3 12	11 43.33	+ 1 30.3	2.582	3.574	1.1	21.0
3 22	11 35.96	+ 2 20.4	2.570	3.559	2.2	21.1
4 1	11 28.92	+ 3 8.4	2.588	3.544	5.5	21.3
4 11	11 22.84	+ 3 50.0	2.634	3.528	8.5	21.4
4 21	11 18.18	+ 4 22.4	2.704	3.513	11.1	21.6

309316 2007 RD_{311} 3 15.2 110°.55 4°.4/11.2 18

2 11	12 7.41	+10 35.4	1.689	2.545	13.6	21.1
2 21	12 1.51	+11 50.4	1.639	2.563	9.8	21.0
3 2	11 53.43	+13 8.6	1.614	2.581	6.2	20.8
3 12	11 44.07	+14 21.0	1.617	2.598	4.4	20.7
3 22	11 34.54	+15 19.3	1.647	2.614	6.7	20.9
4 1	11 25.97	+15 57.9	1.705	2.630	10.2	21.1
4 11	11 19.25	+16 14.5	1.786	2.646	13.6	21.4
4 21	11 14.89	+16 9.8	1.887	2.660	16.5	21.6

215996 2005 SP_{185} 3 15.2 277°.38 0°.3/14.9 17

2 11	12 0.84	+ 0 51.3	2.394	3.226	11.0	21.3
2 21	11 56.45	+ 1 23.7	2.299	3.211	8.1	21.1
3 2	11 50.44	+ 2 6.0	2.230	3.196	4.7	20.9
3 12	11 43.36	+ 2 54.5	2.189	3.181	1.1	20.6
3 22	11 35.91	+ 3 44.4	2.177	3.166	2.7	20.7
4 1	11 28.86	+ 4 30.5	2.195	3.150	6.3	20.9
4 11	11 22.91	+ 5 8.3	2.239	3.135	9.7	21.1
4 21	11 18.60	+ 5 34.9	2.307	3.120	12.6	21.2

255850 2006 SO_{143} 3 15.2 217°.35 1°.7/16.9 16

2 11	12 3.57	− 5 48.8	1.913	2.728	14.0	22.0
2 21	11 58.78	− 5 15.3	1.825	2.723	10.7	21.8
3 2	11 51.95	− 4 23.4	1.760	2.716	6.8	21.5
3 12	11 43.75	− 3 16.8	1.721	2.710	2.8	21.2
3 22	11 35.10	− 2 1.5	1.712	2.703	2.9	21.2
4 1	11 27.00	− 0 45.1	1.731	2.695	7.0	21.5
4 11	11 20.38	+ 0 24.9	1.777	2.687	11.0	21.7
4 21	11 15.84	+ 1 22.8	1.845	2.679	14.5	21.9

40423 1999 RJ_{23} 3 15.2 102°.15 1°.3/13.9 18

2 11	12 4.34	+ 3 44.3	1.976	2.818	12.5	19.6
2 21	11 59.10	+ 4 18.6	1.909	2.827	9.1	19.4
3 2	11 51.98	+ 5 1.4	1.866	2.835	5.2	19.1
3 12	11 43.73	+ 5 47.3	1.852	2.844	1.5	18.9
3 22	11 35.22	+ 6 30.5	1.866	2.852	3.6	19.1
4 1	11 27.40	+ 7 5.6	1.909	2.860	7.5	19.3
4 11	11 21.07	+ 7 28.8	1.978	2.869	11.1	19.6
4 21	11 16.74	+ 7 38.0	2.068	2.877	14.1	19.8

62730 2000 TE_{59} 3 15.2 237°.51 4°.8/10.2 18

2 11	12 7.05	+12 25.7	1.989	2.840	12.0	19.5
2 21	12 1.37	+13 45.4	1.902	2.823	8.9	19.3
3 2	11 53.51	+15 9.5	1.841	2.804	5.9	19.0
3 12	11 44.16	+16 29.5	1.809	2.785	4.8	18.9
3 22	11 34.24	+17 37.1	1.806	2.764	7.0	19.0
4 1	11 24.84	+18 25.7	1.831	2.743	10.4	19.2
4 11	11 16.95	+18 51.8	1.880	2.721	13.8	19.3
4 21	11 11.25	+18 55.1	1.949	2.698	16.8	19.5

21020 1988 VH_{2} 3 15.2 156°.12 4°.9/10.2 18

2 11	12 7.53	+14 5.7	2.031	2.882	11.9	18.5
2 21	12 1.41	+15 15.9	1.971	2.890	8.8	18.3
3 2	11 53.33	+16 26.2	1.938	2.898	5.9	18.1
3 12	11 44.06	+17 28.7	1.933	2.905	5.0	18.1
3 22	11 34.56	+18 16.8	1.957	2.911	6.8	18.2
4 1	11 25.80	+18 45.8	2.008	2.917	9.8	18.4
4 11	11 18.64	+18 54.0	2.084	2.922	12.8	18.6
4 21	11 13.58	+18 42.6	2.180	2.926	15.3	18.8

57258 2001 QX_{104} 3 15.2 202°.18 3°.4/18.9 17

2 11	12 3.50	−10 49.7	2.149	2.935	13.6	20.0
2 21	11 58.55	−10 36.4	2.057	2.932	10.8	19.8
3 2	11 51.74	−10 4.0	1.989	2.928	7.5	19.6
3 12	11 43.70	− 9 14.3	1.947	2.924	4.4	19.4
3 22	11 35.25	− 8 11.5	1.934	2.919	3.6	19.3
4 1	11 27.31	− 7 1.4	1.950	2.914	6.3	19.5
4 11	11 20.70	− 5 51.3	1.993	2.908	9.7	19.7
4 21	11 15.99	− 4 47.3	2.060	2.902	12.9	19.8

41000 1999 UB_{9} 3 15.2 33°.52 2°.6/12.7 18

2 11	12 3.75	+ 7 18.8	1.918	2.770	12.4	19.0
2 21	11 58.79	+ 8 2.0	1.847	2.770	9.0	18.8
3 2	11 51.87	+ 8 51.3	1.801	2.771	5.3	18.5
3 12	11 43.72	+ 9 40.4	1.783	2.772	2.6	18.4
3 22	11 35.26	+10 23.0	1.793	2.772	4.8	18.5
4 1	11 27.46	+10 53.7	1.831	2.773	8.5	18.7
4 11	11 21.18	+11 9.0	1.894	2.774	12.0	18.9
4 21	11 16.95	+11 7.9	1.978	2.775	15.0	19.1

96224 1993 TY_{17} 3 15.2 113°.25 0°.6/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.45	+ 0 4.2	1.601	2.442	15.0	20.0
2 21	12 0.27	+ 0 56.2	1.538	2.454	11.0	19.8
3 2	11 52.81	+ 2 3.1	1.498	2.466	6.4	19.5
3 12	11 43.97	+ 3 18.2	1.485	2.477	1.5	19.2
3 22	11 34.82	+ 4 32.9	1.499	2.488	3.7	19.4
4 1	11 26.54	+ 5 39.0	1.542	2.499	8.4	19.7
4 11	11 20.09	+ 6 30.1	1.609	2.509	12.6	20.0
4 21	11 16.03	+ 7 2.9	1.697	2.519	16.1	20.2

419180 2009 TM_{40} 3 15.2 75°.25 5°.8/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.23	+14 58.7	1.764	2.627	12.8	20.6
2 21	11 59.20	+16 19.5	1.715	2.640	9.5	20.4
3 2	11 52.09	+17 39.3	1.692	2.652	6.6	20.3
3 12	11 43.77	+18 49.0	1.695	2.665	5.9	20.2
3 22	11 35.26	+19 40.9	1.726	2.678	7.9	20.4
4 1	11 27.60	+20 10.3	1.783	2.690	10.9	20.6
4 11	11 21.66	+20 15.8	1.862	2.703	13.9	20.8
4 21	11 17.93	+19 59.2	1.960	2.716	16.5	21.0

522500 2016 ES_{232} 3 15.2 182°.51 3°.1/18.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.87	−10 0.4	2.019	2.814	14.1	21.9
2 21	11 58.15	− 9 40.0	1.934	2.815	11.0	21.7
3 2	11 51.53	− 8 59.9	1.871	2.815	7.6	21.5
3 12	11 43.67	− 8 2.3	1.835	2.815	4.2	21.2
3 22	11 35.43	− 6 52.1	1.827	2.814	3.5	21.2
4 1	11 27.75	− 5 36.2	1.848	2.813	6.5	21.4
4 11	11 21.47	− 4 22.1	1.896	2.812	10.1	21.6
4 21	11 17.17	− 3 16.1	1.967	2.811	13.3	21.8

126669 2002 CV_{212} 3 15.2 286°.63 0°.2/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.33	+ 0 17.1	2.383	3.214	11.0	20.2
2 21	11 56.06	+ 0 49.0	2.292	3.203	8.1	20.0
3 2	11 50.21	+ 1 31.2	2.227	3.193	4.8	19.8
3 12	11 43.34	+ 2 19.7	2.190	3.182	1.2	19.5
3 22	11 36.11	+ 3 10.0	2.182	3.171	2.6	19.6
4 1	11 29.31	+ 3 56.9	2.203	3.160	6.2	19.8
4 11	11 23.62	+ 4 35.8	2.251	3.150	9.6	20.0
4 21	11 19.55	+ 5 3.6	2.323	3.139	12.5	20.2

114030 2002 VD_{7} 3 15.2 155°.12 3°.3/19.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.67	−12 2.9	2.416	3.194	12.5	20.0
2 21	11 56.27	−11 43.1	2.330	3.198	10.0	19.8
3 2	11 50.30	−11 5.4	2.267	3.201	7.0	19.6
3 12	11 43.35	−10 11.6	2.230	3.204	4.3	19.5
3 22	11 36.11	− 9 5.7	2.223	3.206	3.5	19.4
4 1	11 29.35	− 7 53.3	2.245	3.209	5.6	19.5
4 11	11 23.74	− 6 40.6	2.295	3.211	8.6	19.7
4 21	11 19.76	− 5 33.2	2.369	3.213	11.4	19.9

387359 2012 XZ_{37} 3 15.2 329°.49 1°.9/17.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.15	− 6 5.5	2.219	3.031	12.4	21.0
2 21	11 56.02	− 5 46.8	2.132	3.027	9.5	20.8
3 2	11 50.22	− 5 13.1	2.070	3.024	6.2	20.6
3 12	11 43.34	− 4 27.2	2.034	3.020	2.8	20.3
3 22	11 36.13	− 3 33.4	2.027	3.017	2.6	20.3
4 1	11 29.39	− 2 37.2	2.048	3.013	6.0	20.5
4 11	11 23.86	− 1 44.6	2.096	3.010	9.4	20.7
4 21	11 20.06	− 1 0.1	2.168	3.008	12.4	20.9

503671 2016 HA_{1} 3 15.2 285°.33 2°.0/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.75	+ 6 26.3	1.795	2.641	13.4	20.5
2 21	12 2.06	+ 6 40.9	1.704	2.624	9.8	20.2
3 2	11 54.01	+ 7 1.7	1.637	2.606	5.8	19.9
3 12	11 44.33	+ 7 23.7	1.597	2.588	2.1	19.6
3 22	11 34.04	+ 7 41.3	1.586	2.570	4.4	19.7
4 1	11 24.33	+ 7 49.4	1.602	2.552	8.8	20.0
4 11	11 16.26	+ 7 44.5	1.644	2.534	12.9	20.2
4 21	11 10.57	+ 7 25.3	1.706	2.516	16.5	20.3

96824 1999 RA_{182} 3 15.2 150°.73 0°.8/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.09	− 0 39.5	1.654	2.485	15.1	19.6
2 21	12 3.01	− 0 42.8	1.579	2.488	11.3	19.4
3 2	11 54.51	− 0 33.4	1.526	2.490	6.8	19.1
3 12	11 44.43	− 0 14.8	1.501	2.492	2.1	18.8
3 22	11 33.91	+ 0 8.1	1.503	2.494	3.2	18.9
4 1	11 24.18	+ 0 29.8	1.534	2.496	7.9	19.2
4 11	11 16.32	+ 0 44.9	1.589	2.497	12.2	19.4
4 21	11 10.97	+ 0 50.1	1.667	2.499	15.9	19.7

87303 2000 PJ_{26} 3 15.2 158°.99 3°.4/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.02	−13 53.5	3.261	4.010	10.2	20.0
2 21	11 56.88	−13 55.9	3.172	4.017	8.2	19.9
3 2	11 50.52	−13 44.9	3.107	4.024	6.1	19.8
3 12	11 43.40	−13 21.2	3.070	4.031	4.1	19.6
3 22	11 36.07	−12 46.9	3.063	4.036	3.5	19.6
4 1	11 29.09	−12 5.2	3.086	4.042	4.8	19.7
4 11	11 23.00	−11 20.1	3.138	4.046	6.8	19.8
4 21	11 18.19	−10 35.6	3.217	4.051	8.9	20.0

170746 2004 BW_{116} 3 15.2 358°.56 0°.5/15.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.13	− 0 10.8	2.099	2.926	12.5	19.9
2 21	11 59.69	− 0 10.9	2.018	2.926	9.3	19.7
3 2	11 52.39	− 0 1.1	1.962	2.926	5.6	19.4
3 12	11 43.89	+ 0 15.5	1.934	2.925	1.6	19.2
3 22	11 35.05	+ 0 35.0	1.935	2.925	2.6	19.2
4 1	11 26.79	+ 0 53.2	1.965	2.925	6.6	19.5
4 11	11 19.92	+ 1 6.0	2.021	2.926	10.2	19.7
4 21	11 14.99	+ 1 10.6	2.101	2.926	13.3	19.9

115188 2003 SP_{103} 3 15.2 89°.87 1°.1/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.68	+ 3 35.3	2.044	2.884	12.3	19.9
2 21	11 59.27	+ 4 3.8	1.980	2.897	8.9	19.7
3 2	11 52.07	+ 4 40.3	1.942	2.910	5.1	19.5
3 12	11 43.79	+ 5 19.7	1.931	2.923	1.4	19.2
3 22	11 35.31	+ 5 56.8	1.949	2.936	3.4	19.4
4 1	11 27.52	+ 6 26.7	1.996	2.948	7.2	19.7
4 11	11 21.20	+ 6 45.8	2.069	2.961	10.6	19.9
4 21	11 16.81	+ 6 52.2	2.165	2.973	13.5	20.1

114856 2003 PP_{8} 3 15.2 167°.27 0°.5/15.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.25	− 2 13.5	2.089	2.907	12.8	21.2
2 21	12 0.49	− 1 37.9	2.010	2.913	9.5	21.0
3 2	11 52.84	− 0 48.8	1.956	2.918	5.7	20.7
3 12	11 44.00	+ 0 9.5	1.931	2.922	1.7	20.5
3 22	11 34.84	+ 1 11.2	1.936	2.926	2.7	20.6
4 1	11 26.30	+ 2 10.1	1.970	2.928	6.7	20.8
4 11	11 19.19	+ 3 0.5	2.031	2.930	10.4	21.0
4 21	11 14.07	+ 3 38.7	2.116	2.931	13.5	21.2

310453 2000 QX_{20} 3 15.2 176°.14 0°.5/15.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.71	− 2 15.3	2.043	2.862	13.1	22.4
2 21	12 0.89	− 1 41.8	1.962	2.865	9.7	22.2
3 2	11 53.11	− 0 54.5	1.906	2.868	5.9	22.0
3 12	11 44.08	+ 0 2.4	1.878	2.869	1.7	21.7
3 22	11 34.69	+ 1 3.0	1.880	2.870	2.7	21.7
4 1	11 25.91	+ 2 1.2	1.911	2.870	6.9	22.0
4 11	11 18.60	+ 2 50.9	1.969	2.869	10.7	22.2
4 21	11 13.33	+ 3 28.3	2.051	2.867	13.9	22.4

36876 2000 SS_{152} 3 15.2 144°.53 0°.4/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.30	+ 1 31.0	2.879	3.704	9.5	19.9
2 21	11 56.42	+ 2 3.4	2.804	3.713	6.9	19.7
3 2	11 50.27	+ 2 43.0	2.756	3.722	4.0	19.5
3 12	11 43.35	+ 3 26.4	2.737	3.730	0.9	19.3
3 22	11 36.24	+ 4 9.6	2.749	3.737	2.3	19.4
4 1	11 29.57	+ 4 48.8	2.792	3.745	5.3	19.6
4 11	11 23.88	+ 5 20.8	2.862	3.752	8.1	19.8
4 21	11 19.56	+ 5 43.3	2.957	3.758	10.4	20.0

224250 2005 SP_{191} 3 15.2 199°.95 2°.3/17.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.21	− 8 35.4	2.101	2.901	13.4	21.0
2 21	11 57.63	− 7 57.5	2.012	2.898	10.4	20.8
3 2	11 51.22	− 7 0.3	1.946	2.896	6.9	20.6
3 12	11 43.62	− 5 47.2	1.908	2.892	3.4	20.3
3 22	11 35.64	− 4 23.6	1.899	2.888	2.9	20.3
4 1	11 28.18	− 2 56.8	1.919	2.884	6.3	20.5
4 11	11 22.05	− 1 34.4	1.967	2.880	10.0	20.7
4 21	11 17.80	− 0 22.4	2.038	2.875	13.2	20.9

1705 Tapio 3 15.2 195°.70 0°.9/16.2 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.29	− 4 23.5	2.047	2.860	13.3	17.8
2 21	11 59.92	− 3 37.2	1.958	2.857	10.0	17.6
3 2	11 52.59	− 2 34.0	1.895	2.854	6.2	17.3
3 12	11 43.98	− 1 18.4	1.859	2.849	2.1	17.1
3 22	11 34.95	+ 0 3.4	1.853	2.844	2.7	17.1
4 1	11 26.46	+ 1 23.8	1.877	2.838	6.9	17.3
4 11	11 19.40	+ 2 35.7	1.929	2.831	10.7	17.6
4 21	11 14.34	+ 3 34.3	2.003	2.823	14.0	17.8

23830 1998 QZ_{85} 3 15.2 350°.81 20°.8/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.36	−29 21.7	1.308	2.002	25.0	16.4
2 21	12 13.88	−33 51.7	1.229	1.987	23.4	16.2
3 2	12 2.61	−38 1.9	1.169	1.974	22.0	16.1
3 12	11 46.89	−41 33.4	1.130	1.962	21.0	16.0
3 22	11 28.16	−44 9.2	1.112	1.953	20.9	15.9
4 1	11 9.03	−45 41.1	1.114	1.947	21.6	15.9
4 11	10 52.53	−46 14.5	1.133	1.942	23.0	16.0
4 21	10 40.85	−46 4.4	1.166	1.940	24.6	16.1

423732 2006 BR_{185} 3 15.2 122°.49 1°.5/16.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.50	− 4 29.6	2.022	2.839	13.3	21.9
2 21	11 58.55	− 4 11.2	1.945	2.845	10.0	21.7
3 2	11 51.74	− 3 38.0	1.893	2.850	6.3	21.4
3 12	11 43.76	− 2 53.3	1.867	2.856	2.5	21.2
3 22	11 35.46	− 2 2.2	1.870	2.861	2.7	21.2
4 1	11 27.77	− 1 10.5	1.902	2.866	6.5	21.5
4 11	11 21.51	− 0 24.2	1.960	2.871	10.1	21.7
4 21	11 17.19	+ 0 12.4	2.042	2.875	13.3	21.9

215583 2003 GL_{29} 3 15.2 302°.00 5°.0/21.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 59.13	−16 17.1	2.250	3.011	13.8	19.9
2 21	11 55.47	−16 9.5	2.138	2.989	11.5	19.7
3 2	11 50.03	−15 39.6	2.049	2.966	8.7	19.5
3 12	11 43.37	−14 47.8	1.985	2.944	6.1	19.3
3 22	11 36.20	−13 36.8	1.948	2.922	5.0	19.2
4 1	11 29.38	−12 12.0	1.939	2.900	6.6	19.2
4 11	11 23.72	−10 40.9	1.957	2.878	9.5	19.4
4 21	11 19.84	− 9 11.5	1.999	2.856	12.6	19.5

508675 2017 UU_{12} 3 15.3 323°.40 0°.2/15.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.29	+ 2 32.2	1.470	2.317	15.7	20.1
2 21	12 2.96	+ 2 9.2	1.380	2.299	11.8	19.8
3 2	11 54.79	+ 1 54.7	1.313	2.281	7.1	19.5
3 12	11 44.61	+ 1 45.8	1.271	2.263	1.8	19.1
3 22	11 33.63	+ 1 38.2	1.256	2.247	3.7	19.2
4 1	11 23.29	+ 1 27.7	1.268	2.231	9.1	19.5
4 11	11 14.93	+ 1 10.0	1.303	2.216	14.0	19.7
4 21	11 9.41	+ 0 42.6	1.359	2.202	18.2	19.9

324063 2005 VK_{66} 3 15.3 289°.75 7°.9/ 8.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.97	+21 9.6	1.717	2.575	13.3	20.8
2 21	12 2.31	+22 15.8	1.648	2.562	10.5	20.6
3 2	11 54.17	+23 16.1	1.603	2.550	8.3	20.4
3 12	11 44.41	+24 0.7	1.584	2.537	8.1	20.4
3 22	11 34.18	+24 21.9	1.591	2.524	10.0	20.5
4 1	11 24.77	+24 15.5	1.622	2.511	13.0	20.6
4 11	11 17.26	+23 41.6	1.676	2.499	16.1	20.8
4 21	11 12.30	+22 43.6	1.747	2.486	18.8	21.0

300194 2006 WC_{95} 3 15.3 184°.06 2°.8/19.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.25	−11 15.3	2.863	3.637	10.9	21.6
2 21	11 55.78	−10 56.6	2.771	3.637	8.6	21.4
3 2	11 49.97	−10 23.0	2.703	3.637	6.0	21.2
3 12	11 43.32	− 9 36.3	2.662	3.636	3.6	21.1
3 22	11 36.42	− 8 39.8	2.652	3.635	3.0	21.0
4 1	11 29.89	− 7 37.7	2.671	3.634	4.9	21.2
4 11	11 24.32	− 6 35.2	2.719	3.632	7.5	21.3
4 21	11 20.14	− 5 36.8	2.793	3.630	10.0	21.5

109139 2001 QJ_{55} 3 15.3 151°.73 2°.9/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.66	+ 6 44.5	1.877	2.729	12.6	20.0
2 21	11 58.78	+ 7 53.8	1.810	2.733	9.1	19.8
3 2	11 51.92	+ 9 10.8	1.768	2.737	5.4	19.6
3 12	11 43.82	+10 28.1	1.753	2.741	2.9	19.4
3 22	11 35.41	+11 37.8	1.768	2.744	5.2	19.6
4 1	11 27.69	+12 33.1	1.810	2.747	8.9	19.8
4 11	11 21.50	+13 10.0	1.877	2.750	12.4	20.0
4 21	11 17.39	+13 27.2	1.964	2.752	15.4	20.2

419059 2009 ST_{1} 3 15.3 324°.73 1°.6/16.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.81	− 2 5.1	1.541	2.377	15.7	20.1
2 21	12 0.91	− 2 16.6	1.457	2.368	11.9	19.8
3 2	11 53.46	− 2 13.7	1.396	2.358	7.5	19.5
3 12	11 44.26	− 1 59.0	1.360	2.350	2.8	19.2
3 22	11 34.44	− 1 37.0	1.351	2.342	3.3	19.2
4 1	11 25.30	− 1 13.8	1.368	2.334	8.2	19.5
4 11	11 18.00	− 0 55.4	1.409	2.327	12.8	19.7
4 21	11 13.30	− 0 46.5	1.472	2.320	16.8	20.0

465730 2009 VY_{12} 3 15.3 176°.14 3°.6/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.33	+11 31.5	2.224	3.071	11.1	22.2
2 21	12 0.46	+12 18.5	2.154	3.073	8.1	22.0
3 2	11 52.80	+13 7.4	2.110	3.075	5.1	21.8
3 12	11 44.03	+13 52.1	2.095	3.076	3.6	21.7
3 22	11 35.00	+14 27.0	2.109	3.077	5.4	21.8
4 1	11 26.58	+14 48.0	2.152	3.077	8.5	22.0
4 11	11 19.56	+14 52.9	2.220	3.076	11.4	22.2
4 21	11 14.45	+14 41.8	2.310	3.075	14.0	22.4

502127 2015 BO_{16} 3 15.3 77°.91 1°.5/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.46	+ 3 20.7	1.864	2.710	13.0	20.9
2 21	11 58.52	+ 4 12.3	1.807	2.727	9.4	20.7
3 2	11 51.69	+ 5 13.4	1.775	2.744	5.3	20.5
3 12	11 43.75	+ 6 17.5	1.770	2.761	1.7	20.3
3 22	11 35.63	+ 7 17.6	1.793	2.778	3.9	20.4
4 1	11 28.26	+ 8 7.7	1.845	2.795	7.8	20.7
4 11	11 22.45	+ 8 43.3	1.922	2.812	11.4	21.0
4 21	11 18.66	+ 9 2.5	2.020	2.828	14.4	21.2

264650 2001 XJ_{46} 3 15.3 99°.87 0°.8/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.64	+ 2 52.4	1.995	2.829	12.8	20.8
2 21	12 1.41	+ 3 16.8	1.937	2.850	9.3	20.6
3 2	11 53.32	+ 3 49.4	1.904	2.871	5.3	20.4
3 12	11 44.15	+ 4 25.6	1.900	2.892	1.3	20.2
3 22	11 34.83	+ 5 0.0	1.925	2.912	3.3	20.4
4 1	11 26.32	+ 5 27.8	1.978	2.932	7.1	20.6
4 11	11 19.38	+ 5 45.4	2.059	2.951	10.6	20.9
4 21	11 14.51	+ 5 51.0	2.162	2.969	13.6	21.1

179150 2001 TB_{20} 3 15.3 166°.94 0°.9/16.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.58	− 2 6.5	2.599	3.412	10.8	20.1
2 21	11 58.26	− 1 58.2	2.516	3.415	8.0	19.9
3 2	11 51.45	− 1 40.2	2.458	3.417	4.9	19.7
3 12	11 43.70	− 1 15.1	2.429	3.419	1.7	19.5
3 22	11 35.69	− 0 46.4	2.431	3.421	2.2	19.6
4 1	11 28.13	− 0 17.8	2.462	3.423	5.4	19.8
4 11	11 21.69	+ 0 6.7	2.521	3.424	8.5	20.0
4 21	11 16.81	+ 0 24.5	2.605	3.425	11.2	20.1

171087 2005 EB_{204} 3 15.3 127°.04 0°.8/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.39	+ 1 44.4	1.794	2.631	13.8	21.2
2 21	12 1.49	+ 2 24.6	1.730	2.645	10.1	21.0
3 2	11 53.49	+ 3 16.1	1.691	2.658	5.8	20.7
3 12	11 44.21	+ 4 12.9	1.679	2.671	1.4	20.5
3 22	11 34.69	+ 5 8.3	1.696	2.684	3.6	20.6
4 1	11 25.98	+ 5 55.7	1.742	2.696	7.9	20.9
4 11	11 18.98	+ 6 30.3	1.813	2.707	11.7	21.2
4 21	11 14.23	+ 6 49.6	1.906	2.718	15.0	21.4

299756 Kerryaileen 3 15.3 314°.23 0°.2/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.38	+ 0 26.7	2.067	2.903	12.3	21.1
2 21	11 57.06	+ 0 53.5	1.981	2.895	9.1	20.9
3 2	11 50.92	+ 1 31.5	1.920	2.886	5.3	20.7
3 12	11 43.60	+ 2 16.5	1.886	2.878	1.3	20.4
3 22	11 35.88	+ 3 3.3	1.880	2.870	2.9	20.5
4 1	11 28.67	+ 3 46.3	1.903	2.862	6.9	20.7
4 11	11 22.77	+ 4 20.4	1.952	2.854	10.6	20.9
4 21	11 18.73	+ 4 42.5	2.023	2.847	13.8	21.1

462798 2010 PD_{40} 3 15.3 63°.96 7°.1/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.17	+17 14.4	1.518	2.384	14.3	20.9
2 21	12 1.50	+18 38.4	1.484	2.407	10.8	20.7
3 2	11 53.48	+19 57.3	1.474	2.431	7.9	20.6
3 12	11 44.19	+21 0.7	1.491	2.455	7.2	20.6
3 22	11 34.84	+21 41.0	1.533	2.478	9.2	20.8
4 1	11 26.64	+21 54.3	1.600	2.502	12.3	21.0
4 11	11 20.52	+21 41.3	1.688	2.526	15.3	21.3
4 21	11 16.92	+21 5.5	1.795	2.549	17.9	21.5

132451 2002 HV_{1} 3 15.3 256°.60 4°.2/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.08	+10 29.1	1.649	2.505	13.9	19.5
2 21	12 2.46	+11 16.7	1.569	2.493	10.2	19.2
3 2	11 54.32	+12 8.9	1.513	2.480	6.4	19.0
3 12	11 44.49	+12 57.8	1.483	2.467	4.2	18.8
3 22	11 34.08	+13 35.6	1.481	2.454	6.5	18.9
4 1	11 24.38	+13 55.9	1.506	2.441	10.6	19.1
4 11	11 16.53	+13 55.5	1.554	2.427	14.6	19.3
4 21	11 11.23	+13 34.7	1.623	2.413	18.0	19.5

335598 2006 DD_{202} 3 15.3 68°.48 2°.6/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.08	+ 7 3.7	1.844	2.697	12.8	20.2
2 21	11 59.08	+ 7 49.0	1.780	2.703	9.2	20.0
3 2	11 52.09	+ 8 40.6	1.740	2.710	5.4	19.8
3 12	11 43.88	+ 9 31.9	1.727	2.716	2.6	19.6
3 22	11 35.40	+10 16.4	1.743	2.723	4.8	19.8
4 1	11 27.64	+10 48.6	1.786	2.729	8.6	20.0
4 11	11 21.47	+11 4.9	1.854	2.736	12.1	20.3
4 21	11 17.41	+11 4.4	1.943	2.743	15.2	20.5

242452 2004 QB_{27} 3 15.3 102°.91 2°.3/17.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.12	− 6 55.3	1.909	2.720	14.2	20.8
2 21	11 58.40	− 6 39.1	1.831	2.725	10.9	20.6
3 2	11 51.73	− 6 5.3	1.777	2.729	7.1	20.4
3 12	11 43.81	− 5 16.8	1.749	2.734	3.4	20.1
3 22	11 35.54	− 4 18.8	1.749	2.738	3.0	20.1
4 1	11 27.90	− 3 17.8	1.777	2.743	6.7	20.3
4 11	11 21.74	− 2 20.8	1.832	2.747	10.4	20.6
4 21	11 17.63	− 1 33.1	1.909	2.752	13.7	20.8

165300 2000 TY_{66} 3 15.3 263°.53 1°.4/14.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.12	+ 1 23.9	1.635	2.480	14.5	20.7
2 21	11 59.64	+ 2 25.5	1.543	2.462	10.7	20.4
3 2	11 52.73	+ 3 43.7	1.474	2.444	6.2	20.1
3 12	11 44.12	+ 5 11.9	1.433	2.425	1.7	19.7
3 22	11 34.82	+ 6 40.9	1.419	2.405	4.4	19.9
4 1	11 26.05	+ 8 0.9	1.432	2.385	9.3	20.1
4 11	11 18.97	+ 9 4.1	1.470	2.365	13.9	20.3
4 21	11 14.32	+ 9 46.1	1.529	2.345	17.8	20.5

339126 2004 RD_{319} 3 15.3 150°.14 0°.4/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.73	− 0 53.4	2.001	2.834	12.7	21.0
2 21	11 57.29	+ 0 7.1	1.926	2.838	9.4	20.8
3 2	11 51.04	+ 1 21.6	1.875	2.841	5.5	20.6
3 12	11 43.64	+ 2 44.5	1.852	2.845	1.3	20.3
3 22	11 35.93	+ 4 8.5	1.859	2.848	3.1	20.4
4 1	11 28.80	+ 5 26.1	1.894	2.850	7.2	20.7
4 11	11 23.06	+ 6 31.2	1.956	2.853	10.9	20.9
4 21	11 19.23	+ 7 20.1	2.040	2.855	14.0	21.1

286033 2001 SR_{175} 3 15.3 239°.43 1°.7/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 6.25	+ 2 47.0	1.790	2.632	13.6	21.7
2 21	12 1.02	+ 3 48.5	1.698	2.615	10.0	21.4
3 2	11 53.47	+ 5 3.8	1.630	2.598	5.8	21.1
3 12	11 44.30	+ 6 26.3	1.589	2.580	1.9	20.8
3 22	11 34.49	+ 7 47.5	1.578	2.562	4.4	20.9
4 1	11 25.20	+ 8 59.0	1.594	2.542	9.0	21.1
4 11	11 17.51	+ 9 54.0	1.636	2.522	13.3	21.3
4 21	11 12.13	+10 29.1	1.699	2.501	16.9	21.5

360582 2003 UZ_{317} 3 15.3 276°.32 2°.1/13.6 16

2 11	12 6.41	+ 5 3.2	1.536	2.390	14.8	21.6
2 21	12 1.32	+ 5 38.2	1.458	2.382	10.9	21.3
3 2	11 53.68	+ 6 23.3	1.403	2.374	6.3	21.0
3 12	11 44.34	+ 7 11.8	1.375	2.366	2.3	20.7
3 22	11 34.45	+ 7 56.1	1.373	2.358	4.9	20.9
4 1	11 25.29	+ 8 28.8	1.398	2.350	9.6	21.1
4 11	11 18.04	+ 8 45.1	1.446	2.342	14.0	21.3
4 21	11 13.39	+ 8 43.2	1.515	2.334	17.8	21.6

201257 2002 RP_{138} 3 15.3 95°.96 6°.0/ 8.2 18

2 11	12 2.67	+17 47.3	2.076	2.936	11.3	19.7
2 21	11 57.96	+19 10.1	2.019	2.938	8.6	19.6
3 2	11 51.40	+20 30.4	1.988	2.941	6.5	19.4
3 12	11 43.73	+21 40.0	1.985	2.944	6.2	19.4
3 22	11 35.80	+22 32.1	2.009	2.946	8.0	19.5
4 1	11 28.52	+23 2.4	2.060	2.949	10.6	19.7
4 11	11 22.69	+23 9.6	2.133	2.952	13.2	19.9
4 21	11 18.80	+22 55.2	2.225	2.954	15.5	20.0

378348 2007 HA_{83} 3 15.3 290°.38 7°.3/ 7.9 18

2 11	12 5.57	+20 18.2	1.841	2.700	12.5	20.1
2 21	12 0.34	+21 33.5	1.781	2.696	9.8	19.9
3 2	11 52.91	+22 43.7	1.745	2.693	7.7	19.8
3 12	11 44.12	+23 39.8	1.736	2.689	7.5	19.8
3 22	11 35.00	+24 14.4	1.753	2.685	9.3	19.9
4 1	11 26.65	+24 23.5	1.796	2.681	12.1	20.0
4 11	11 20.02	+24 6.9	1.860	2.678	14.9	20.2
4 21	11 15.68	+23 27.0	1.943	2.674	17.4	20.4

393803 2005 QM_{56} 3 15.3 138°.54 1°.7/13.5 18

2 11	12 7.22	+ 2 27.6	1.768	2.607	13.9	21.8
2 21	12 1.41	+ 3 42.9	1.705	2.622	10.0	21.6
3 2	11 53.48	+ 5 10.4	1.668	2.637	5.7	21.4
3 12	11 44.25	+ 6 42.1	1.659	2.650	1.9	21.1
3 22	11 34.77	+ 8 9.2	1.679	2.663	4.3	21.3
4 1	11 26.11	+ 9 23.6	1.728	2.674	8.6	21.6
4 11	11 19.18	+10 19.8	1.803	2.685	12.4	21.9
4 21	11 14.52	+10 55.8	1.898	2.695	15.6	22.1

31907 Wongsumming 3 15.3 296°.78 0°.5/14.9 18

2 11	12 3.80	+ 0 3.5	1.335	2.189	16.6	18.9
2 21	11 59.80	+ 0 42.5	1.252	2.175	12.4	18.6
3 2	11 53.00	+ 1 40.3	1.191	2.161	7.3	18.3
3 12	11 44.23	+ 2 50.7	1.155	2.147	1.8	17.9
3 22	11 34.70	+ 4 4.5	1.144	2.133	4.2	18.0
4 1	11 25.88	+ 5 11.3	1.158	2.120	9.9	18.3
4 11	11 19.09	+ 6 2.4	1.195	2.107	15.0	18.5
4 21	11 15.16	+ 6 32.6	1.251	2.094	19.5	18.8

167631 2004 CE_{87} 3 15.3 148°.33 0°.4/14.8 18 R

2 11	12 0.58	− 0 16.3	2.471	3.298	10.8	20.3
2 21	11 56.14	+ 0 39.4	2.394	3.304	7.9	20.1
3 2	11 50.24	+ 1 45.9	2.344	3.310	4.6	19.9
3 12	11 43.44	+ 2 58.5	2.323	3.315	1.1	19.7
3 22	11 36.41	+ 4 11.6	2.332	3.320	2.6	19.8
4 1	11 29.85	+ 5 19.5	2.370	3.325	6.1	20.1
4 11	11 24.40	+ 6 17.5	2.437	3.329	9.2	20.3
4 21	11 20.50	+ 7 2.5	2.527	3.333	11.9	20.4

288559 2004 HA_{5} 3 15.3 303°.13 0°.0/15.3 17

2 11	12 0.58	− 0 33.3	2.180	3.012	11.9	20.8
2 21	11 56.40	+ 0 2.2	2.095	3.006	8.8	20.6
3 2	11 50.51	+ 0 49.5	2.034	3.000	5.2	20.4
3 12	11 43.53	+ 1 44.5	2.002	2.994	1.3	20.1
3 22	11 36.20	+ 2 41.7	1.998	2.988	2.7	20.2
4 1	11 29.35	+ 3 35.5	2.023	2.982	6.6	20.4
4 11	11 23.74	+ 4 20.6	2.075	2.977	10.1	20.6
4 21	11 19.87	+ 4 53.4	2.149	2.971	13.1	20.8

61693 2000 QT_{130} 3 15.3 179°.24 4°.7/ 9.1 18

2 11	12 3.96	+14 38.3	2.385	3.236	10.3	19.2
2 21	11 58.71	+16 5.4	2.319	3.238	7.7	19.0
3 2	11 51.79	+17 33.1	2.281	3.239	5.4	18.9
3 12	11 43.84	+18 54.0	2.273	3.239	4.8	18.8
3 22	11 35.61	+20 1.6	2.293	3.239	6.6	19.0
4 1	11 27.92	+20 51.0	2.342	3.239	9.2	19.1
4 11	11 21.49	+21 20.0	2.416	3.237	11.8	19.3
4 21	11 16.81	+21 29.0	2.510	3.235	14.0	19.4

489578 2007 TF_{84} 3 15.3 93°.02 3°.7/20.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 1.34	−13 34.3	2.387	3.157	12.9	21.3
2 21	11 56.72	−13 11.9	2.315	3.175	10.3	21.2
3 2	11 50.58	−12 30.7	2.266	3.194	7.4	21.0
3 12	11 43.53	−11 32.8	2.243	3.213	4.7	20.9
3 22	11 36.29	−10 22.4	2.250	3.231	3.7	20.9
4 1	11 29.61	− 9 5.5	2.286	3.249	5.6	21.0
4 11	11 24.15	− 7 48.5	2.350	3.266	8.4	21.2
4 21	11 20.33	− 6 37.1	2.439	3.284	11.0	21.4

185009 2006 PO_{30} 3 15.3 173°.69 4°.0/ 9.9 18

2 11	12 2.56	+14 19.1	2.674	3.523	9.4	20.6
2 21	11 57.51	+15 19.8	2.607	3.525	6.9	20.4
3 2	11 51.02	+16 20.5	2.567	3.527	4.7	20.3
3 12	11 43.65	+17 15.5	2.557	3.528	4.0	20.2
3 22	11 36.06	+18 0.0	2.577	3.530	5.5	20.3
4 1	11 28.96	+18 30.3	2.624	3.530	7.9	20.5
4 11	11 22.96	+18 44.5	2.698	3.531	10.4	20.7
4 21	11 18.50	+18 42.7	2.793	3.531	12.5	20.8

468134 2014 UD_{109} 3 15.3 16°.30 9°.6/ 7.7 16

2 11	12 7.78	+23 30.9	1.413	2.280	15.1	20.7
2 21	12 2.37	+24 40.8	1.368	2.283	12.2	20.5
3 2	11 54.23	+25 39.4	1.345	2.288	10.0	20.4
3 12	11 44.48	+26 15.5	1.346	2.293	9.8	20.4
3 22	11 34.49	+26 21.9	1.371	2.299	11.7	20.5
4 1	11 25.70	+25 55.8	1.418	2.305	14.6	20.7
4 11	11 19.21	+25 0.0	1.486	2.312	17.6	20.9
4 21	11 15.56	+23 39.9	1.571	2.320	20.2	21.1

377341 2004 PG_{104} 3 15.3 208°.89 0°.2/15.0 17

2 11	12 7.10	+ 1 38.5	2.494	3.314	10.9	22.2
2 21	12 0.98	+ 1 53.6	2.402	3.307	8.1	22.0
3 2	11 53.15	+ 2 16.5	2.336	3.300	4.7	21.7
3 12	11 44.21	+ 2 44.1	2.299	3.291	1.1	21.5
3 22	11 34.91	+ 3 12.4	2.294	3.282	2.6	21.6
4 1	11 26.06	+ 3 37.3	2.318	3.272	6.2	21.8
4 11	11 18.40	+ 3 55.4	2.371	3.262	9.5	22.0
4 21	11 12.46	+ 4 4.2	2.448	3.251	12.3	22.1

118044 3224 T_{-2} 3 15.3 82°.81 1°.5/13.7 18

2 11	12 3.40	+ 4 2.1	2.020	2.863	12.2	19.6
2 21	11 58.41	+ 4 44.4	1.958	2.877	8.8	19.5
3 2	11 51.64	+ 5 34.8	1.921	2.890	5.1	19.2
3 12	11 43.82	+ 6 27.7	1.912	2.903	1.6	19.0
3 22	11 35.78	+ 7 17.0	1.932	2.917	3.7	19.2
4 1	11 28.43	+ 7 57.4	1.980	2.930	7.4	19.5
4 11	11 22.51	+ 8 25.1	2.054	2.943	10.8	19.7
4 21	11 18.51	+ 8 38.2	2.151	2.956	13.7	19.9

230073 2000 UG_{70} 3 15.3 174°.88 0°.4/14.9 17

2 11	12 5.22	+ 1 23.3	2.354	3.180	11.3	21.3
2 21	11 59.61	+ 1 50.3	2.274	3.183	8.3	21.1
3 2	11 52.33	+ 2 26.2	2.220	3.185	4.8	20.9
3 12	11 44.00	+ 3 7.0	2.194	3.186	1.2	20.6
3 22	11 35.38	+ 3 48.2	2.199	3.187	2.7	20.7
4 1	11 27.29	+ 4 25.0	2.234	3.188	6.4	21.0
4 11	11 20.45	+ 4 53.4	2.295	3.188	9.7	21.2
4 21	11 15.37	+ 5 11.0	2.381	3.187	12.5	21.3

496386 2013 TF_{28} 3 15.3 178°.01 0°.4/14.7 17

2 11	12 3.72	+ 0 55.6	2.511	3.335	10.7	22.7
2 21	11 58.44	+ 1 36.5	2.429	3.338	7.9	22.5
3 2	11 51.62	+ 2 26.8	2.374	3.339	4.6	22.3
3 12	11 43.82	+ 3 22.2	2.348	3.340	1.1	22.0
3 22	11 35.76	+ 4 17.9	2.352	3.340	2.7	22.2
4 1	11 28.17	+ 5 8.9	2.387	3.340	6.1	22.4
4 11	11 21.73	+ 5 50.9	2.449	3.339	9.3	22.6
4 21	11 16.90	+ 6 21.3	2.536	3.337	12.0	22.8

183392 2002 XU_{72} 3 15.3 94°.48 1°.4/14.1 18

2 11	12 6.85	+ 3 28.3	1.758	2.601	13.8	20.8
2 21	12 1.10	+ 4 5.6	1.700	2.618	10.0	20.6
3 2	11 53.28	+ 4 52.3	1.667	2.636	5.7	20.4
3 12	11 44.24	+ 5 42.2	1.661	2.653	1.7	20.1
3 22	11 35.00	+ 6 28.7	1.684	2.670	3.9	20.3
4 1	11 26.62	+ 7 5.9	1.734	2.686	8.1	20.6
4 11	11 19.97	+ 7 29.6	1.810	2.703	11.8	20.9
4 21	11 15.57	+ 7 38.2	1.908	2.719	15.0	21.1

173997 2001 XJ_{207} 3 15.3 127°.37 0°.2/15.0 18

2 11	12 0.90	− 0 7.7	2.700	3.523	10.1	20.6
2 21	11 56.25	+ 0 35.2	2.628	3.535	7.4	20.5
3 2	11 50.26	+ 1 27.1	2.582	3.547	4.3	20.3
3 12	11 43.48	+ 2 24.2	2.566	3.558	1.0	20.1
3 22	11 36.51	+ 3 21.8	2.581	3.570	2.3	20.2
4 1	11 30.01	+ 4 15.4	2.625	3.580	5.5	20.4
4 11	11 24.54	+ 5 0.9	2.697	3.591	8.4	20.6
4 21	11 20.51	+ 5 35.8	2.794	3.601	10.8	20.8

501015 2013 RR_{45} 3 15.3 231°.97 1°.9/17.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.19	− 5 25.3	1.999	2.812	13.6	21.9
2 21	11 59.24	− 5 10.8	1.909	2.805	10.4	21.7
3 2	11 52.30	− 4 40.3	1.842	2.798	6.7	21.5
3 12	11 44.04	− 3 56.6	1.803	2.790	2.9	21.2
3 22	11 35.31	− 3 4.5	1.792	2.782	2.9	21.2
4 1	11 27.10	− 2 9.9	1.810	2.774	6.7	21.4
4 11	11 20.30	− 1 19.4	1.854	2.766	10.5	21.6
4 21	11 15.53	− 0 37.9	1.921	2.757	13.9	21.8

145015 2005 ES_{240} 3 15.3 302°.74 1°.2/16.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.26	− 3 1.6	1.429	2.271	16.4	20.1
2 21	11 59.40	− 2 44.0	1.334	2.248	12.5	19.8
3 2	11 52.82	− 2 6.4	1.260	2.225	7.8	19.5
3 12	11 44.24	− 1 12.4	1.211	2.202	2.7	19.1
3 22	11 34.79	− 0 8.7	1.187	2.179	3.5	19.1
4 1	11 25.86	+ 0 55.6	1.190	2.156	9.0	19.4
4 11	11 18.78	+ 1 51.1	1.215	2.134	14.2	19.6
4 21	11 14.44	+ 2 31.2	1.260	2.113	18.8	19.8

2737 Kotka 3 15.3 68°.31 1°.5/16.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.59	− 3 0.2	1.761	2.584	14.7	15.9
2 21	12 1.64	− 3 3.3	1.702	2.605	11.0	15.7
3 2	11 53.61	− 2 52.3	1.666	2.625	6.8	15.5
3 12	11 44.33	− 2 30.7	1.657	2.646	2.6	15.3
3 22	11 34.85	− 2 3.0	1.676	2.667	2.9	15.4
4 1	11 26.24	− 1 34.7	1.723	2.687	7.0	15.6
4 11	11 19.38	− 1 11.2	1.797	2.708	10.8	15.9
4 21	11 14.79	− 0 56.0	1.892	2.728	14.1	16.2

245205 2004 VT_{15} 3 15.3 201°.88 3°.8/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.04	+ 9 52.4	1.910	2.758	12.6	21.1
2 21	12 2.10	+10 55.8	1.834	2.754	9.2	20.8
3 2	11 53.99	+12 4.3	1.783	2.749	5.7	20.6
3 12	11 44.46	+13 10.2	1.760	2.743	3.8	20.5
3 22	11 34.51	+14 5.9	1.767	2.737	6.0	20.6
4 1	11 25.21	+14 45.4	1.801	2.729	9.6	20.8
4 11	11 17.54	+15 5.2	1.861	2.721	13.1	21.0
4 21	11 12.10	+15 5.2	1.941	2.712	16.2	21.2

68917 2002 KW_9 3 15.3 301°.62 3°.2/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.28	+ 8 41.6	1.842	2.697	12.7	19.4
2 21	11 59.39	+ 9 25.5	1.767	2.691	9.2	19.2
3 2	11 52.40	+10 14.8	1.716	2.685	5.6	19.0
3 12	11 44.07	+11 2.8	1.692	2.679	3.2	18.8
3 22	11 35.34	+11 42.8	1.697	2.673	5.3	18.9
4 1	11 27.25	+12 9.1	1.728	2.667	9.1	19.1
4 11	11 20.73	+12 18.6	1.784	2.662	12.7	19.3
4 21	11 16.38	+12 10.3	1.860	2.656	15.9	19.5

390359 2013 CO_{209} 3 15.3 308°.74 2°.6/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.97	− 5 54.4	2.354	3.154	12.2	20.1
2 21	11 59.62	− 6 19.9	2.254	3.141	9.4	19.9
3 2	11 52.46	− 6 33.9	2.179	3.127	6.3	19.7
3 12	11 44.09	− 6 37.3	2.132	3.114	3.4	19.4
3 22	11 35.25	− 6 32.1	2.114	3.101	3.1	19.4
4 1	11 26.79	− 6 21.6	2.126	3.088	6.0	19.6
4 11	11 19.53	− 6 9.7	2.164	3.076	9.3	19.7
4 21	11 14.03	− 6 0.3	2.227	3.063	12.3	19.9

382340 2013 TB_{51} 3 15.3 182°.35 0°.1/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.81	− 0 26.9	2.165	2.994	12.1	21.8
2 21	11 58.01	+ 0 13.9	2.085	2.995	8.9	21.6
3 2	11 51.47	+ 1 6.8	2.030	2.995	5.2	21.4
3 12	11 43.82	+ 2 7.0	2.003	2.995	1.3	21.1
3 22	11 35.85	+ 3 8.9	2.005	2.994	2.8	21.2
4 1	11 28.42	+ 4 6.4	2.036	2.993	6.7	21.4
4 11	11 22.28	+ 4 54.4	2.094	2.992	10.2	21.6
4 21	11 17.95	+ 5 29.5	2.175	2.991	13.2	21.8

390384 2013 WB_{46} 3 15.3 162°.11 4°.3/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.80	+14 10.6	2.377	3.227	10.4	20.8
2 21	11 59.29	+15 11.0	2.314	3.232	7.7	20.6
3 2	11 52.13	+16 11.4	2.277	3.237	5.2	20.5
3 12	11 43.97	+17 5.4	2.269	3.241	4.3	20.4
3 22	11 35.59	+17 47.6	2.290	3.245	6.0	20.5
4 1	11 27.80	+18 13.9	2.339	3.248	8.6	20.7
4 11	11 21.30	+18 22.8	2.413	3.251	11.3	20.9
4 21	11 16.56	+18 14.5	2.509	3.253	13.6	21.0

496550 2014 WA_{353} 3 15.3 127°.82 6°.3/21.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.80	−18 21.0	2.033	2.778	15.7	21.7
2 21	12 0.38	−18 39.5	1.955	2.789	13.0	21.5
3 2	11 52.94	−18 34.3	1.897	2.801	10.1	21.4
3 12	11 44.20	−18 5.2	1.864	2.811	7.5	21.2
3 22	11 35.10	−17 14.6	1.858	2.821	6.3	21.2
4 1	11 26.65	−16 8.1	1.879	2.831	7.6	21.3
4 11	11 19.72	−14 53.7	1.927	2.841	10.1	21.4
4 21	11 14.91	−13 39.3	1.999	2.849	12.9	21.6

336341 2008 TX_{113} 3 15.3 217°.81 3°.5/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.32	+11 35.8	2.304	3.151	10.8	20.8
2 21	11 59.79	+12 22.3	2.225	3.145	7.9	20.6
3 2	11 52.50	+13 10.9	2.173	3.138	5.0	20.4
3 12	11 44.09	+13 55.7	2.150	3.131	3.5	20.3
3 22	11 35.35	+14 31.4	2.156	3.123	5.3	20.4
4 1	11 27.13	+14 53.5	2.190	3.115	8.3	20.5
4 11	11 20.23	+14 59.9	2.251	3.106	11.3	20.7
4 21	11 15.14	+14 50.2	2.332	3.097	13.9	20.9

209013 2003 BB_{87} 3 15.3 184°.25 0°.2/15.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.21	+ 0 26.2	2.599	3.425	10.4	20.8
2 21	11 56.59	+ 1 1.4	2.516	3.425	7.6	20.6
3 2	11 50.54	+ 1 45.8	2.460	3.425	4.4	20.4
3 12	11 43.58	+ 2 35.6	2.432	3.425	1.1	20.2
3 22	11 36.37	+ 3 26.2	2.435	3.424	2.4	20.3
4 1	11 29.59	+ 4 13.2	2.467	3.423	5.8	20.5
4 11	11 23.87	+ 4 52.4	2.527	3.422	8.8	20.7
4 21	11 19.65	+ 5 21.1	2.611	3.420	11.4	20.9

86394 2000 AH_{124} 3 15.3 41°.33 1°.8/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.05	+ 2 2.3	1.237	2.100	17.1	19.2
2 21	11 59.90	+ 3 4.3	1.176	2.104	12.5	18.9
3 2	11 52.96	+ 4 23.4	1.137	2.109	7.2	18.6
3 12	11 44.24	+ 5 50.3	1.122	2.114	2.1	18.3
3 22	11 35.07	+ 7 13.5	1.132	2.119	5.1	18.5
4 1	11 26.91	+ 8 22.2	1.168	2.125	10.5	18.8
4 11	11 20.96	+ 9 9.1	1.226	2.131	15.3	19.1
4 21	11 17.88	+ 9 31.7	1.302	2.137	19.3	19.4

91466 1999 RU_{81} 3 15.3 112°.95 0°.7/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.94	− 3 40.3	2.268	3.083	12.1	20.0
2 21	11 57.92	− 2 54.4	2.201	3.101	9.0	19.8
3 2	11 51.32	− 1 55.1	2.159	3.119	5.4	19.6
3 12	11 43.77	− 0 46.9	2.146	3.137	1.7	19.4
3 22	11 36.04	+ 0 24.6	2.163	3.154	2.4	19.4
4 1	11 28.92	+ 1 33.2	2.210	3.170	6.0	19.7
4 11	11 23.07	+ 2 33.5	2.284	3.186	9.3	19.9
4 21	11 18.94	+ 3 22.0	2.382	3.202	12.1	20.1

309140 2006 XY_{54} 3 15.3 176°.61 1°.8/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.23	+ 5 27.6	2.266	3.103	11.3	20.7
2 21	12 0.42	+ 6 9.9	2.190	3.105	8.2	20.5
3 2	11 52.84	+ 6 58.8	2.140	3.108	4.8	20.3
3 12	11 44.17	+ 7 49.1	2.119	3.109	1.9	20.1
3 22	11 35.21	+ 8 35.5	2.128	3.109	3.8	20.3
4 1	11 26.81	+ 9 12.9	2.166	3.109	7.3	20.5
4 11	11 19.75	+ 9 37.8	2.231	3.109	10.6	20.7
4 21	11 14.53	+ 9 48.7	2.319	3.107	13.3	20.9

450178 2001 TV_{251} 3 15.3 81°.77 2°.4/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.72	+ 4 44.2	1.387	2.242	16.1	22.0
2 21	12 2.84	+ 5 38.2	1.340	2.264	11.6	21.8
3 2	11 54.43	+ 6 42.2	1.316	2.287	6.6	21.6
3 12	11 44.56	+ 7 47.6	1.318	2.309	2.5	21.4
3 22	11 34.55	+ 8 45.2	1.347	2.331	5.2	21.6
4 1	11 25.71	+ 9 27.7	1.403	2.352	9.8	21.9
4 11	11 19.06	+ 9 50.9	1.481	2.374	14.0	22.2
4 21	11 15.10	+ 9 54.2	1.580	2.395	17.4	22.5

236216 2005 WQ_{171} 3 15.3 158°.03 0°.4/15.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.60	− 1 58.4	1.763	2.589	14.5	21.5
2 21	12 1.82	− 1 19.6	1.690	2.597	10.8	21.3
3 2	11 53.84	− 0 25.2	1.640	2.604	6.5	21.0
3 12	11 44.44	+ 0 39.5	1.618	2.610	1.8	20.7
3 22	11 34.69	+ 1 47.6	1.625	2.615	3.1	20.9
4 1	11 25.68	+ 2 51.5	1.660	2.620	7.7	21.1
4 11	11 18.40	+ 3 44.4	1.721	2.623	11.8	21.4
4 21	11 13.43	+ 4 22.5	1.805	2.627	15.3	21.6

223492 2004 BV_{28} 3 15.3 29°.79 1°.8/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.35	+ 6 15.0	2.521	3.367	10.0	20.1
2 21	11 55.22	+ 6 53.4	2.455	3.375	7.2	19.9
3 2	11 49.71	+ 7 36.7	2.415	3.384	4.1	19.7
3 12	11 43.38	+ 8 20.5	2.404	3.394	1.8	19.6
3 22	11 36.86	+ 9 0.2	2.422	3.403	3.5	19.7
4 1	11 30.84	+ 9 31.7	2.469	3.413	6.5	19.9
4 11	11 25.89	+ 9 52.3	2.542	3.423	9.3	20.1
4 21	11 22.43	+10 0.5	2.638	3.434	11.7	20.3

2414 Vibeke 3 15.3 118°.02 0°.3/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.62	+ 2 31.2	2.575	3.400	10.5	17.0
2 21	11 59.73	+ 2 37.0	2.502	3.410	7.7	16.8
3 2	11 52.33	+ 2 49.3	2.455	3.420	4.5	16.6
3 12	11 44.04	+ 3 4.8	2.437	3.429	1.1	16.4
3 22	11 35.54	+ 3 20.4	2.450	3.439	2.5	16.5
4 1	11 27.57	+ 3 32.6	2.493	3.448	5.8	16.7
4 11	11 20.79	+ 3 38.7	2.565	3.457	8.8	16.9
4 21	11 15.64	+ 3 37.0	2.660	3.466	11.3	17.1

190040 2004 RY_{103} 3 15.3 171°.89 2°.6/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.21	− 7 51.3	1.997	2.801	13.9	20.2
2 21	11 58.49	− 7 37.7	1.914	2.802	10.7	20.0
3 2	11 51.84	− 7 6.3	1.854	2.803	7.2	19.8
3 12	11 43.96	− 6 19.7	1.821	2.804	3.6	19.6
3 22	11 35.69	− 5 22.7	1.815	2.804	3.1	19.5
4 1	11 27.99	− 4 21.3	1.839	2.804	6.5	19.8
4 11	11 21.71	− 3 22.6	1.889	2.805	10.1	20.0
4 21	11 17.40	− 2 31.9	1.962	2.805	13.4	20.2

203749 2002 RN_{55} 3 15.3 100°.40 2°.1/17.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.38	− 5 44.7	2.270	3.072	12.5	20.2
2 21	11 59.74	− 5 48.0	2.198	3.087	9.5	20.0
3 2	11 52.43	− 5 38.1	2.150	3.101	6.2	19.8
3 12	11 44.08	− 5 17.3	2.130	3.114	3.0	19.6
3 22	11 35.49	− 4 49.0	2.139	3.128	2.7	19.6
4 1	11 27.50	− 4 17.6	2.178	3.141	5.8	19.8
4 11	11 20.84	− 3 47.8	2.244	3.154	9.0	20.1
4 21	11 15.98	− 3 23.5	2.334	3.167	11.9	20.3

229922 1995 ST_{60} 3 15.3 218°.13 0°.8/14.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.30	+ 1 42.0	2.222	3.055	11.6	21.5
2 21	11 58.40	+ 2 25.5	2.136	3.049	8.5	21.3
3 2	11 51.73	+ 3 19.5	2.075	3.042	4.9	21.0
3 12	11 43.93	+ 4 19.0	2.042	3.034	1.2	20.7
3 22	11 35.75	+ 5 18.4	2.039	3.026	3.1	20.9
4 1	11 28.05	+ 6 12.0	2.065	3.018	6.9	21.1
4 11	11 21.61	+ 6 54.8	2.118	3.009	10.4	21.3
4 21	11 16.97	+ 7 23.9	2.194	3.000	13.4	21.5

124801 2001 SF_{277} 3 15.3 59°.29 14°.4/25.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.23	−26 18.7	1.330	2.042	23.9	19.2
2 21	12 12.16	−28 51.9	1.282	2.070	21.1	19.1
3 2	12 0.41	−30 49.0	1.251	2.099	18.2	18.9
3 12	11 46.18	−32 0.9	1.240	2.128	15.8	18.9
3 22	11 31.25	−32 24.0	1.251	2.157	14.5	18.9
4 1	11 17.68	−32 2.9	1.284	2.186	14.8	19.0
4 11	11 7.11	−31 9.8	1.339	2.215	16.3	19.1
4 21	11 0.38	−29 59.6	1.413	2.244	18.3	19.4

401810 3165 $T\text{-}_{3}$ 3 15.3 139°.68 2°.5/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.27	+ 7 28.2	2.004	2.845	12.4	21.5
2 21	12 2.72	+ 8 10.0	1.941	2.858	9.0	21.3
3 2	11 54.21	+ 8 56.8	1.904	2.872	5.3	21.1
3 12	11 44.53	+ 9 42.6	1.896	2.884	2.6	21.0
3 22	11 34.63	+10 21.4	1.917	2.896	4.6	21.1
4 1	11 25.51	+10 48.3	1.967	2.906	8.2	21.4
4 11	11 18.01	+11 0.6	2.043	2.916	11.6	21.6
4 21	11 12.64	+10 57.7	2.142	2.926	14.4	21.8

437669 2014 CS_{12} 3 15.3 206°.31 3°.8/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.68	+12 45.5	2.516	3.368	9.8	21.4
2 21	11 57.01	+13 48.1	2.445	3.366	7.2	21.2
3 2	11 50.82	+14 52.2	2.400	3.363	4.7	21.0
3 12	11 43.68	+15 51.8	2.384	3.360	3.8	21.0
3 22	11 36.28	+16 41.6	2.397	3.356	5.5	21.1
4 1	11 29.36	+17 17.4	2.439	3.353	8.1	21.2
4 11	11 23.57	+17 36.7	2.506	3.349	10.7	21.4
4 21	11 19.38	+17 39.3	2.594	3.345	13.0	21.6

31947 2000 GO_{109} 3 15.3 219°.79 0°.4/14.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.82	+ 0 3.5	2.514	3.336	10.8	19.5
2 21	11 58.64	+ 0 53.4	2.417	3.324	8.0	19.3
3 2	11 51.84	+ 1 54.5	2.347	3.312	4.7	19.1
3 12	11 43.96	+ 3 2.4	2.306	3.298	1.1	18.8
3 22	11 35.70	+ 4 11.9	2.296	3.284	2.7	18.9
4 1	11 27.82	+ 5 17.1	2.316	3.269	6.3	19.1
4 11	11 21.04	+ 6 13.3	2.364	3.253	9.6	19.3
4 21	11 15.88	+ 6 56.9	2.436	3.236	12.5	19.4

31720 1999 JW_{59} 3 15.3 264°.20 3°.0/19.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.25	−10 53.8	2.446	3.230	12.2	19.2
2 21	11 56.12	−10 33.6	2.344	3.217	9.7	19.0
3 2	11 50.39	− 9 55.8	2.266	3.204	6.8	18.8
3 12	11 43.60	− 9 2.4	2.214	3.191	4.0	18.6
3 22	11 36.43	− 7 56.9	2.192	3.177	3.2	18.5
4 1	11 29.62	− 6 44.8	2.199	3.164	5.7	18.7
4 11	11 23.90	− 5 32.3	2.233	3.150	8.8	18.8
4 21	11 19.78	− 4 25.2	2.293	3.136	11.7	19.0

37250 2000 WX_{183} 3 15.3 237°.48 0°.1/15.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.07	+ 0 36.4	2.701	3.523	10.2	19.5
2 21	11 57.97	+ 0 51.8	2.607	3.512	7.5	19.3
3 2	11 51.39	+ 1 15.2	2.538	3.502	4.5	19.1
3 12	11 43.84	+ 1 43.7	2.499	3.491	1.1	18.9
3 22	11 35.98	+ 2 13.8	2.491	3.480	2.3	18.9
4 1	11 28.48	+ 2 41.7	2.512	3.469	5.6	19.2
4 11	11 22.01	+ 3 3.8	2.561	3.457	8.6	19.3
4 21	11 17.04	+ 3 17.7	2.635	3.445	11.3	19.5

461748 2005 UU_{166} 3 15.3 221°.64 0°.7/14.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.89	+ 1 40.4	1.992	2.827	12.7	21.9
2 21	11 59.73	+ 2 12.6	1.908	2.822	9.3	21.7
3 2	11 52.60	+ 2 55.6	1.849	2.816	5.5	21.4
3 12	11 44.17	+ 3 44.6	1.818	2.810	1.3	21.1
3 22	11 35.32	+ 4 33.8	1.815	2.803	3.3	21.3
4 1	11 27.04	+ 5 17.3	1.842	2.797	7.4	21.5
4 11	11 20.19	+ 5 50.2	1.894	2.790	11.2	21.7
4 21	11 15.37	+ 6 9.4	1.968	2.782	14.5	21.9

366806 2005 BG_{20} 3 15.3 319°.78 0°.2/15.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.27	− 0 25.7	1.328	2.182	16.7	20.7
2 21	11 59.45	− 0 5.4	1.246	2.167	12.5	20.4
3 2	11 52.85	+ 0 32.6	1.185	2.153	7.5	20.1
3 12	11 44.30	+ 1 23.2	1.148	2.140	2.0	19.7
3 22	11 35.00	+ 2 18.7	1.136	2.127	3.8	19.8
4 1	11 26.41	+ 3 9.8	1.149	2.115	9.5	20.1
4 11	11 19.83	+ 3 48.5	1.185	2.103	14.6	20.3
4 21	11 16.10	+ 4 9.8	1.240	2.092	19.0	20.5

39897 1998 FL_{23} 3 15.3 36°.68 1°.4/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.55	+ 4 8.9	1.116	1.982	18.3	18.5
2 21	12 3.21	+ 4 14.7	1.070	1.999	13.3	18.2
3 2	11 54.86	+ 4 31.7	1.044	2.016	7.7	18.0
3 12	11 44.72	+ 4 52.9	1.042	2.034	2.0	17.7
3 22	11 34.37	+ 5 11.0	1.064	2.053	4.7	17.9
4 1	11 25.38	+ 5 19.2	1.111	2.073	10.2	18.3
4 11	11 18.97	+ 5 13.6	1.179	2.093	15.0	18.6
4 21	11 15.69	+ 4 52.8	1.267	2.114	19.0	18.9

257523 1997 SH_{11} 3 15.3 140°.88 1°.2/14.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.40	+ 3 38.8	2.296	3.127	11.4	21.4
2 21	12 0.44	+ 4 17.1	2.228	3.141	8.3	21.2
3 2	11 52.82	+ 5 2.7	2.187	3.154	4.7	21.0
3 12	11 44.19	+ 5 50.9	2.174	3.166	1.4	20.8
3 22	11 35.36	+ 6 36.5	2.192	3.177	3.3	20.9
4 1	11 27.15	+ 7 14.8	2.240	3.188	6.8	21.2
4 11	11 20.29	+ 7 42.1	2.315	3.198	10.0	21.4
4 21	11 15.23	+ 7 56.7	2.413	3.208	12.7	21.6

177885 2005 QD_{137} 3 15.3 333°.64 1°.6/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.35	+ 5 13.4	2.105	2.951	11.7	20.2
2 21	11 57.76	+ 5 40.8	2.025	2.945	8.5	20.0
3 2	11 51.38	+ 6 15.0	1.970	2.939	4.9	19.7
3 12	11 43.86	+ 6 51.4	1.943	2.934	1.7	19.5
3 22	11 35.99	+ 7 24.6	1.944	2.929	3.7	19.6
4 1	11 28.66	+ 7 50.0	1.974	2.924	7.4	19.8
4 11	11 22.65	+ 8 3.9	2.029	2.920	10.8	20.0
4 21	11 18.50	+ 8 4.6	2.107	2.916	13.8	20.2

357112 2001 VB_{9} 3 15.3 118°.05 0°.4/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.04	+ 0 22.4	1.738	2.570	14.4	21.7
2 21	12 2.75	+ 1 1.5	1.679	2.590	10.6	21.5
3 2	11 54.30	+ 1 53.2	1.644	2.609	6.2	21.2
3 12	11 44.57	+ 2 51.6	1.636	2.628	1.5	21.0
3 22	11 34.64	+ 3 49.8	1.657	2.646	3.4	21.1
4 1	11 25.61	+ 4 40.9	1.707	2.663	7.8	21.4
4 11	11 18.38	+ 5 19.5	1.783	2.680	11.7	21.7
4 21	11 13.50	+ 5 43.1	1.880	2.695	15.0	22.0

57121 2001 OK_{98} 3 15.3 119°.19 1°.2/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.81	+ 3 18.0	2.073	2.907	12.3	20.0
2 21	12 0.86	+ 3 55.6	2.011	2.925	8.9	19.9
3 2	11 53.09	+ 4 41.4	1.975	2.942	5.1	19.6
3 12	11 44.26	+ 5 30.2	1.967	2.959	1.5	19.4
3 22	11 35.25	+ 6 16.3	1.990	2.975	3.4	19.6
4 1	11 26.96	+ 6 54.5	2.041	2.991	7.2	19.9
4 11	11 20.17	+ 7 21.0	2.118	3.006	10.6	20.1
4 21	11 15.34	+ 7 34.1	2.219	3.020	13.5	20.3

386135 2007 TC_{81} 3 15.3 106°.41 0°.1/15.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.41	− 0 15.6	2.343	3.170	11.4	22.0
2 21	11 57.53	+ 0 18.8	2.274	3.183	8.3	21.8
3 2	11 51.11	+ 1 3.4	2.231	3.196	4.9	21.6
3 12	11 43.77	+ 1 53.9	2.216	3.208	1.2	21.3
3 22	11 36.22	+ 2 45.4	2.231	3.220	2.5	21.5
4 1	11 29.22	+ 3 32.9	2.275	3.233	6.0	21.7
4 11	11 23.45	+ 4 12.1	2.346	3.244	9.2	21.9
4 21	11 19.33	+ 4 40.2	2.441	3.256	12.0	22.1

156472 2002 CP_{45} 3 15.3 17°.84 1°.0/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.88	+ 1 49.9	1.782	2.627	13.5	20.3
2 21	11 58.39	+ 2 32.1	1.708	2.627	9.9	20.1
3 2	11 51.84	+ 3 26.3	1.659	2.628	5.7	19.9
3 12	11 43.98	+ 4 26.7	1.637	2.629	1.5	19.6
3 22	11 35.76	+ 5 26.3	1.642	2.630	3.6	19.7
4 1	11 28.20	+ 6 18.0	1.675	2.631	8.0	20.0
4 11	11 22.21	+ 6 56.6	1.734	2.632	11.9	20.2
4 21	11 18.35	+ 7 19.1	1.813	2.634	15.2	20.4

383850 2008 OU_1 3 15.3 218°.02 3°.4/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.56	+10 38.3	2.528	3.374	10.0	21.7
2 21	11 58.44	+11 47.7	2.445	3.364	7.3	21.5
3 2	11 51.71	+13 0.9	2.388	3.353	4.6	21.3
3 12	11 43.94	+14 11.9	2.362	3.342	3.4	21.2
3 22	11 35.83	+15 14.6	2.366	3.329	5.2	21.3
4 1	11 28.14	+16 4.2	2.398	3.317	8.0	21.5
4 11	11 21.57	+16 37.4	2.457	3.303	10.8	21.6
4 21	11 16.64	+16 53.3	2.538	3.289	13.3	21.8

241682 2000 RD_{21} 3 15.3 185°.11 1°.1/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.12	− 4 40.9	2.159	2.967	12.8	22.2
2 21	12 0.49	− 4 3.6	2.072	2.968	9.7	22.0
3 2	11 52.99	− 3 10.8	2.010	2.967	6.1	21.8
3 12	11 44.27	− 2 6.2	1.977	2.966	2.2	21.5
3 22	11 35.18	− 0 55.5	1.973	2.964	2.6	21.5
4 1	11 26.63	+ 0 14.7	2.000	2.961	6.5	21.8
4 11	11 19.44	+ 1 18.2	2.054	2.957	10.1	22.0
4 21	11 14.18	+ 2 10.3	2.132	2.952	13.3	22.2

462154 2007 TV_{118} 3 15.3 114°.55 1°.9/13.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.27	+ 4 17.4	1.777	2.621	13.6	22.4
2 21	12 1.43	+ 5 12.0	1.720	2.639	9.8	22.2
3 2	11 53.52	+ 6 15.7	1.687	2.656	5.6	22.0
3 12	11 44.38	+ 7 21.4	1.682	2.673	2.1	21.8
3 22	11 35.04	+ 8 21.8	1.706	2.690	4.3	22.0
4 1	11 26.55	+ 9 10.2	1.758	2.705	8.4	22.3
4 11	11 19.79	+ 9 42.7	1.836	2.721	12.1	22.5
4 21	11 15.27	+ 9 57.6	1.935	2.735	15.2	22.8

188697 2005 TJ_{26} 3 15.3 235°.14 0°.6/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.16	− 2 37.1	1.905	2.733	13.5	21.0
2 21	11 58.56	− 2 2.5	1.820	2.728	10.1	20.7
3 2	11 51.95	− 1 12.3	1.760	2.722	6.2	20.5
3 12	11 44.03	− 0 11.2	1.726	2.717	1.9	20.2
3 22	11 35.67	+ 0 54.9	1.720	2.711	2.8	20.2
4 1	11 27.87	+ 1 58.9	1.743	2.705	7.1	20.5
4 11	11 21.53	+ 2 54.0	1.792	2.699	11.1	20.7
4 21	11 17.24	+ 3 36.0	1.864	2.693	14.6	20.9

378756 2008 RD_{111} 3 15.3 174°.72 0°.7/16.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.98	− 3 2.3	2.432	3.246	11.4	21.9
2 21	11 57.99	− 2 28.0	2.348	3.248	8.5	21.7
3 2	11 51.42	− 1 41.4	2.290	3.250	5.2	21.5
3 12	11 43.87	− 0 46.2	2.261	3.252	1.7	21.2
3 22	11 36.03	+ 0 13.0	2.262	3.253	2.3	21.3
4 1	11 28.66	+ 1 10.8	2.293	3.253	5.8	21.5
4 11	11 22.46	+ 2 2.1	2.351	3.253	9.1	21.7
4 21	11 17.90	+ 2 43.3	2.434	3.253	11.9	21.9

205335 2000 UB_{98} 3 15.3 150°.30 1°.2/16.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.52	− 3 27.4	1.845	2.664	14.3	20.7
2 21	12 1.71	− 3 7.6	1.771	2.672	10.7	20.5
3 2	11 53.76	− 2 32.5	1.720	2.680	6.6	20.2
3 12	11 44.47	− 1 46.1	1.697	2.687	2.4	20.0
3 22	11 34.83	− 0 53.9	1.702	2.693	2.8	20.0
4 1	11 25.91	− 0 2.4	1.736	2.699	7.1	20.3
4 11	11 18.63	+ 0 42.0	1.797	2.704	11.1	20.5
4 21	11 13.59	+ 1 15.2	1.880	2.709	14.5	20.7

108511 2001 KO_{72} 3 15.3 199°.24 2°.0/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.29	− 6 12.9	1.793	2.603	15.0	20.2
2 21	12 1.74	− 5 48.0	1.705	2.600	11.5	19.9
3 2	11 53.91	− 5 3.9	1.641	2.596	7.4	19.7
3 12	11 44.54	− 4 3.8	1.604	2.591	3.2	19.4
3 22	11 34.65	− 2 53.8	1.595	2.586	3.1	19.4
4 1	11 25.37	− 1 41.5	1.615	2.579	7.4	19.6
4 11	11 17.75	− 0 34.9	1.661	2.572	11.6	19.9
4 21	11 12.44	+ 0 19.8	1.730	2.564	15.3	20.1

338047 2002 NP 3 15.3 212°.11 1°.5/17.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.83	− 7 1.8	2.485	3.286	11.6	21.8
2 21	11 56.46	− 6 15.2	2.391	3.280	8.9	21.6
3 2	11 50.56	− 5 12.7	2.322	3.274	5.7	21.4
3 12	11 43.66	− 3 57.6	2.281	3.268	2.5	21.1
3 22	11 36.44	− 2 35.0	2.271	3.261	2.3	21.1
4 1	11 29.63	− 1 11.1	2.290	3.254	5.6	21.3
4 11	11 23.90	+ 0 7.9	2.338	3.246	8.8	21.5
4 21	11 19.74	+ 1 17.0	2.411	3.238	11.7	21.7

453390 2009 CH_{32} 3 15.3 351°.42 0°.3/15.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.14	+ 1 10.8	1.147	2.014	17.9	21.1
2 21	11 59.56	+ 1 21.7	1.079	2.007	13.3	20.8
3 2	11 52.98	+ 1 48.8	1.030	2.002	7.9	20.4
3 12	11 44.35	+ 2 26.3	1.005	1.997	1.9	20.0
3 22	11 35.07	+ 3 6.1	1.003	1.994	4.2	20.2
4 1	11 26.74	+ 3 39.3	1.025	1.992	10.1	20.5
4 11	11 20.71	+ 3 58.5	1.069	1.991	15.4	20.8
4 21	11 17.77	+ 4 0.1	1.130	1.992	19.9	21.1

368604 2004 RD_{210} 3 15.3 102°.15 5°.1/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 7.41	−15 47.2	2.323	3.070	13.9	21.5
2 21	12 1.22	−16 4.9	2.255	3.096	11.3	21.3
3 2	11 53.30	−16 3.2	2.210	3.121	8.5	21.2
3 12	11 44.35	−15 42.6	2.191	3.146	6.0	21.1
3 22	11 35.18	−15 5.9	2.201	3.170	5.1	21.0
4 1	11 26.68	−14 17.6	2.240	3.193	6.4	21.2
4 11	11 19.58	−13 24.0	2.306	3.216	8.9	21.4
4 21	11 14.36	−12 31.0	2.398	3.238	11.4	21.6

230939 2004 XH_{10} 3 15.3 149°.48 1°.2/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.82	+ 3 37.7	2.519	3.351	10.5	21.7
2 21	11 58.49	+ 4 23.4	2.448	3.361	7.6	21.5
3 2	11 51.66	+ 5 16.3	2.403	3.371	4.3	21.3
3 12	11 43.93	+ 6 11.7	2.388	3.380	1.4	21.1
3 22	11 36.00	+ 7 4.6	2.404	3.388	3.1	21.3
4 1	11 28.58	+ 7 50.4	2.449	3.396	6.4	21.5
4 11	11 22.32	+ 8 25.4	2.522	3.403	9.3	21.7
4 21	11 17.67	+ 8 47.8	2.618	3.409	11.9	21.9

57228 2001 QY_{75} 3 15.3 248°.86 4°.4/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.83	+13 14.2	1.977	2.826	12.2	18.4
2 21	12 2.72	+13 54.8	1.894	2.813	9.1	18.1
3 2	11 54.42	+14 36.3	1.836	2.799	5.9	17.9
3 12	11 44.68	+15 11.8	1.807	2.785	4.4	17.8
3 22	11 34.46	+15 35.3	1.805	2.770	6.4	17.9
4 1	11 24.85	+15 42.0	1.832	2.755	9.7	18.1
4 11	11 16.83	+15 30.1	1.883	2.740	13.1	18.2
4 21	11 11.03	+15 0.2	1.956	2.724	16.1	18.4

171925 2001 ST_{143} 3 15.3 100°.80 1°.1/16.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.35	− 2 18.8	2.246	3.064	12.1	20.1
2 21	11 59.09	− 2 15.7	2.166	3.067	9.1	19.9
3 2	11 52.12	− 2 1.5	2.111	3.071	5.6	19.7
3 12	11 44.07	− 1 39.1	2.084	3.074	2.0	19.5
3 22	11 35.71	− 1 12.2	2.087	3.078	2.4	19.5
4 1	11 27.90	− 0 45.1	2.119	3.081	6.0	19.7
4 11	11 21.37	− 0 22.2	2.177	3.084	9.4	20.0
4 21	11 16.64	− 0 6.6	2.260	3.088	12.4	20.2

332189 2006 BN_{256} 3 15.3 212°.40 0°.6/14.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.19	+ 1 42.6	2.150	2.983	12.0	21.5
2 21	11 59.10	+ 2 12.0	2.067	2.979	8.8	21.2
3 2	11 52.19	+ 2 51.2	2.009	2.975	5.1	21.0
3 12	11 44.11	+ 3 35.8	1.979	2.971	1.3	20.7
3 22	11 35.67	+ 4 20.7	1.979	2.967	3.0	20.8
4 1	11 27.76	+ 5 0.3	2.007	2.962	6.9	21.1
4 11	11 21.17	+ 5 30.4	2.062	2.957	10.5	21.3
4 21	11 16.45	+ 5 48.2	2.140	2.952	13.5	21.5

360267 2000 SH_{116} 3 15.3 189°.71 2°.4/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.51	+ 6 44.9	1.970	2.811	12.6	21.0
2 21	12 2.39	+ 7 29.5	1.893	2.811	9.2	20.7
3 2	11 54.17	+ 8 20.8	1.841	2.809	5.4	20.5
3 12	11 44.62	+ 9 12.6	1.818	2.807	2.5	20.3
3 22	11 34.67	+ 9 58.5	1.824	2.804	4.6	20.4
4 1	11 25.39	+10 32.8	1.859	2.800	8.5	20.7
4 11	11 17.67	+10 51.8	1.919	2.795	12.1	20.9
4 21	11 12.12	+10 54.5	2.002	2.790	15.2	21.1

284349 2006 RO_{95} 3 15.3 170°.83 1°.8/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.41	− 7 18.7	2.641	3.438	11.1	21.8
2 21	11 56.04	− 6 48.2	2.554	3.440	8.5	21.6
3 2	11 50.26	− 6 3.7	2.493	3.442	5.6	21.4
3 12	11 43.61	− 5 8.0	2.459	3.443	2.6	21.2
3 22	11 36.69	− 4 5.1	2.455	3.445	2.3	21.2
4 1	11 30.19	− 3 0.1	2.481	3.446	5.1	21.4
4 11	11 24.73	− 1 58.3	2.536	3.446	8.1	21.6
4 21	11 20.72	− 1 3.9	2.615	3.447	10.8	21.8

320371 2007 TF_{414} 3 15.3 182°.09 3°.2/19.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.33	−11 47.9	2.553	3.328	12.0	20.8
2 21	11 56.79	−11 32.8	2.462	3.328	9.6	20.6
3 2	11 50.75	−11 1.0	2.395	3.328	6.8	20.4
3 12	11 43.74	−10 14.2	2.355	3.328	4.2	20.2
3 22	11 36.43	− 9 15.8	2.345	3.328	3.4	20.2
4 1	11 29.54	− 8 10.8	2.364	3.327	5.4	20.3
4 11	11 23.74	− 7 4.9	2.411	3.326	8.3	20.5
4 21	11 19.50	− 6 3.3	2.483	3.324	11.0	20.7

384258 2009 EG_{20} 3 15.3 45°.22 3°.5/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 58.97	+ 5 56.4	1.967	2.823	11.9	20.1
2 21	11 55.35	+ 8 11.0	1.907	2.834	8.5	19.9
3 2	11 49.98	+10 35.4	1.874	2.844	5.1	19.8
3 12	11 43.54	+12 59.3	1.872	2.855	3.6	19.7
3 22	11 36.84	+15 12.0	1.899	2.866	6.0	19.8
4 1	11 30.73	+17 4.8	1.956	2.877	9.3	20.1
4 11	11 25.98	+18 32.4	2.037	2.889	12.5	20.3
4 21	11 23.05	+19 33.5	2.140	2.900	15.2	20.5

223237 2003 EJ_{34} 3 15.3 7°.81 2°.7/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 59.44	− 7 48.4	1.388	2.221	17.3	19.8
2 21	11 56.37	− 7 19.9	1.317	2.222	13.4	19.5
3 2	11 50.89	− 6 25.8	1.266	2.224	8.8	19.2
3 12	11 43.81	− 5 10.4	1.240	2.226	4.1	19.0
3 22	11 36.28	− 3 41.9	1.238	2.230	3.6	18.9
4 1	11 29.54	− 2 10.8	1.263	2.234	8.1	19.2
4 11	11 24.65	− 0 47.8	1.311	2.239	12.7	19.5
4 21	11 22.27	+ 0 19.5	1.380	2.245	16.7	19.7

99756 2002 JH_{90} 3 15.3 35°.44 0°.1/15.4 18

2 11	12 5.57	+ 0 6.6	1.170	2.029	18.1	19.3
2 21	12 1.05	+ 0 22.4	1.117	2.041	13.4	19.1
3 2	11 53.65	+ 0 55.2	1.085	2.054	7.9	18.8
3 12	11 44.50	+ 1 38.5	1.076	2.069	2.0	18.5
3 22	11 35.01	+ 2 23.7	1.093	2.084	3.9	18.6
4 1	11 26.71	+ 3 2.4	1.133	2.100	9.5	19.0
4 11	11 20.77	+ 3 27.7	1.197	2.116	14.4	19.3
4 21	11 17.77	+ 3 36.3	1.279	2.133	18.5	19.6

319715 2006 UM_{50} 3 15.3 201°.93 0°.2/15.5 17

2 11	12 7.12	− 0 4.2	1.841	2.671	13.8	21.8
2 21	12 1.51	+ 0 10.9	1.759	2.669	10.3	21.6
3 2	11 53.73	+ 0 38.1	1.702	2.667	6.1	21.4
3 12	11 44.53	+ 1 13.4	1.672	2.664	1.6	21.1
3 22	11 34.88	+ 1 51.4	1.671	2.661	3.0	21.1
4 1	11 25.87	+ 2 26.2	1.698	2.658	7.5	21.4
4 11	11 18.47	+ 2 52.6	1.751	2.654	11.5	21.6
4 21	11 13.31	+ 3 7.4	1.826	2.650	15.0	21.9

16382 1981 ER_{27} 3 15.3 129°.06 0°.6/14.9 18 R

2 11	12 9.70	+ 2 3.7	1.640	2.478	14.8	18.8
2 21	12 3.48	+ 2 21.8	1.573	2.487	10.9	18.5
3 2	11 54.89	+ 2 51.0	1.529	2.496	6.4	18.3
3 12	11 44.80	+ 3 26.0	1.512	2.505	1.6	18.0
3 22	11 34.38	+ 4 0.6	1.524	2.513	3.6	18.2
4 1	11 24.84	+ 4 28.8	1.563	2.521	8.3	18.5
4 11	11 17.20	+ 4 45.9	1.628	2.528	12.5	18.7
4 21	11 12.06	+ 4 49.4	1.714	2.535	16.0	19.0

492700 2014 PV_{66} 3 15.3 209°.01 0°.1/15.4 17

2 11	12 7.11	− 0 50.9	1.955	2.780	13.3	22.9
2 21	12 1.46	− 0 15.7	1.867	2.774	9.9	22.6
3 2	11 53.70	+ 0 33.2	1.803	2.766	5.9	22.4
3 12	11 44.53	+ 1 31.3	1.766	2.758	1.5	22.0
3 22	11 34.87	+ 2 32.5	1.760	2.749	3.0	22.1
4 1	11 25.76	+ 3 29.9	1.782	2.740	7.4	22.4
4 11	11 18.15	+ 4 17.5	1.831	2.729	11.4	22.6
4 21	11 12.68	+ 4 51.5	1.902	2.718	14.8	22.8

32072 Revanur 3 15.3 233°.06 0°.3/14.9 18

2 11	12 2.00	+ 0 53.5	2.569	3.396	10.5	19.6
2 21	11 57.28	+ 1 28.0	2.477	3.386	7.7	19.4
3 2	11 51.05	+ 2 11.8	2.410	3.376	4.5	19.1
3 12	11 43.83	+ 3 1.1	2.373	3.365	1.1	18.9
3 22	11 36.28	+ 3 51.4	2.365	3.354	2.5	19.0
4 1	11 29.11	+ 4 37.9	2.388	3.342	6.0	19.2
4 11	11 22.99	+ 5 16.6	2.437	3.330	9.1	19.4
4 21	11 18.41	+ 5 44.4	2.511	3.318	11.9	19.5

32391 2000 QO_{203} 3 15.3 308°.35 1°.1/14.2 18

2 11	12 2.82	+ 3 49.9	2.099	2.942	11.9	18.6
2 21	11 58.17	+ 4 15.2	2.014	2.932	8.7	18.3
3 2	11 51.70	+ 4 48.7	1.953	2.922	5.0	18.1
3 12	11 44.02	+ 5 25.7	1.921	2.912	1.5	17.8
3 22	11 35.95	+ 6 1.2	1.916	2.903	3.4	18.0
4 1	11 28.38	+ 6 30.2	1.941	2.894	7.3	18.2
4 11	11 22.13	+ 6 48.6	1.991	2.885	10.8	18.4
4 21	11 17.76	+ 6 54.2	2.063	2.876	13.9	18.6

167107 2003 SK_{61} 3 15.3 108°.38 2°.4/13.2 18

2 11	12 7.36	+ 5 21.3	1.700	2.548	13.9	20.8
2 21	12 1.61	+ 6 16.1	1.644	2.565	10.1	20.6
3 2	11 53.70	+ 7 19.3	1.612	2.581	5.8	20.4
3 12	11 44.50	+ 8 23.4	1.607	2.597	2.4	20.2
3 22	11 35.09	+ 9 20.8	1.631	2.613	4.8	20.4
4 1	11 26.58	+10 4.9	1.683	2.628	8.8	20.6
4 11	11 19.86	+10 31.9	1.759	2.643	12.6	20.9
4 21	11 15.45	+10 40.6	1.856	2.657	15.7	21.1

432208 2009 DS_{135} 3 15.3 258°.29 4°.6/21.9 17

2 11	11 59.19	−18 25.6	2.459	3.201	13.3	20.7
2 21	11 55.35	−17 45.3	2.359	3.197	11.0	20.5
3 2	11 49.96	−16 41.5	2.282	3.192	8.3	20.3
3 12	11 43.58	−15 15.7	2.231	3.188	5.8	20.1
3 22	11 36.88	−13 31.9	2.209	3.183	4.6	20.0
4 1	11 30.62	−11 36.9	2.217	3.179	5.9	20.1
4 11	11 25.48	− 9 38.8	2.254	3.174	8.5	20.3
4 21	11 21.94	− 7 45.5	2.317	3.169	11.3	20.4

131535 2001 UU_{111} 3 15.3 78°.76 1°.1/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 8.30	+ 2 40.4	1.378	2.230	16.4	20.1
2 21	12 2.80	+ 3 7.2	1.317	2.239	12.0	19.9
3 2	11 54.62	+ 3 46.5	1.279	2.248	7.0	19.6
3 12	11 44.78	+ 4 31.7	1.265	2.257	1.8	19.3
3 22	11 34.56	+ 5 14.8	1.278	2.267	4.3	19.5
4 1	11 25.37	+ 5 48.6	1.317	2.276	9.4	19.8
4 11	11 18.34	+ 6 7.6	1.380	2.285	13.9	20.1
4 21	11 14.10	+ 6 9.8	1.463	2.294	17.7	20.4

58043 2002 VJ_{128} 3 15.3 123°.84 0°.3/15.7 18

2 11	12 2.13	− 1 28.2	2.405	3.227	11.3	20.4
2 21	11 57.36	− 0 55.6	2.331	3.236	8.3	20.3
3 2	11 51.07	− 0 12.2	2.282	3.245	5.0	20.1
3 12	11 43.84	+ 0 38.2	2.262	3.254	1.4	19.8
3 22	11 36.39	+ 1 30.9	2.272	3.262	2.3	19.9
4 1	11 29.45	+ 2 20.8	2.311	3.270	5.8	20.2
4 11	11 23.68	+ 3 3.5	2.377	3.278	9.0	20.4
4 21	11 19.53	+ 3 35.8	2.467	3.286	11.8	20.6

437472 2013 YJ_{43} 3 15.3 29°.07 2°.7/12.4 17

2 11	12 1.47	+ 7 24.3	1.999	2.853	11.9	20.9
2 21	11 57.16	+ 8 18.7	1.933	2.857	8.6	20.7
3 2	11 51.06	+ 9 19.2	1.892	2.862	5.1	20.5
3 12	11 43.85	+10 19.2	1.879	2.866	2.7	20.3
3 22	11 36.38	+11 12.3	1.894	2.871	4.8	20.5
4 1	11 29.53	+11 52.9	1.937	2.877	8.2	20.7
4 11	11 24.06	+12 17.4	2.004	2.882	11.5	20.9
4 21	11 20.49	+12 24.9	2.093	2.888	14.4	21.1

25317 1999 BL_{12} 3 15.3 188°.52 4°.0/11.6 18

2 11	12 8.34	+10 3.5	1.801	2.652	13.1	17.6
2 21	12 2.44	+11 9.3	1.730	2.652	9.6	17.3
3 2	11 54.29	+12 20.0	1.685	2.651	6.0	17.1
3 12	11 44.70	+13 27.6	1.667	2.649	4.0	17.0
3 22	11 34.70	+14 23.8	1.677	2.647	6.3	17.1
4 1	11 25.43	+15 2.6	1.715	2.643	10.0	17.3
4 11	11 17.89	+15 20.6	1.778	2.640	13.6	17.5
4 21	11 12.68	+15 17.9	1.861	2.635	16.6	17.7

130411 2000 OU_{44} 3 15.3 184°.65 2°.8/17.8 18

2 11	12 7.60	− 7 37.4	1.916	2.716	14.5	20.0
2 21	12 1.85	− 7 31.1	1.831	2.717	11.3	19.8
3 2	11 53.95	− 7 6.8	1.768	2.717	7.5	19.6
3 12	11 44.63	− 6 26.9	1.733	2.716	3.8	19.3
3 22	11 34.84	− 5 35.7	1.726	2.715	3.4	19.3
4 1	11 25.67	− 4 39.5	1.748	2.712	6.9	19.5
4 11	11 18.06	− 3 45.4	1.797	2.709	10.8	19.7
4 21	11 12.64	− 2 59.0	1.869	2.706	14.2	19.9

422672 1999 VZ_{99} 3 15.3 226°.91 2°.6/12.1 18

2 11	12 4.93	+ 9 6.1	2.592	3.432	10.0	21.7
2 21	11 59.44	+ 9 53.2	2.501	3.418	7.3	21.5
3 2	11 52.35	+10 44.4	2.438	3.404	4.4	21.3
3 12	11 44.20	+11 34.6	2.405	3.390	2.6	21.1
3 22	11 35.69	+12 18.6	2.402	3.375	4.4	21.2
4 1	11 27.59	+12 52.3	2.429	3.359	7.3	21.4
4 11	11 20.59	+13 12.5	2.482	3.342	10.2	21.6
4 21	11 15.21	+13 18.3	2.558	3.325	12.8	21.7

375325 2008 RZ_{102} 3 15.3 76°.91 1°.8/17.3 17

2 11	12 2.02	− 6 19.3	1.951	2.765	13.8	21.0
2 21	11 57.60	− 5 48.3	1.879	2.775	10.5	20.9
3 2	11 51.34	− 4 59.8	1.830	2.785	6.7	20.6
3 12	11 43.94	− 3 57.9	1.808	2.795	2.9	20.4
3 22	11 36.25	− 2 48.3	1.814	2.805	2.7	20.4
4 1	11 29.20	− 1 38.0	1.849	2.815	6.4	20.7
4 11	11 23.58	− 0 34.0	1.911	2.825	10.1	20.9
4 21	11 19.89	+ 0 18.9	1.995	2.835	13.3	21.1

375850 2009 VD_7 3 15.3 240°.33 0°.4/15.8 17

2 11	12 5.81	− 1 26.4	2.367	3.183	11.6	22.2
2 21	12 0.30	− 1 1.0	2.262	3.164	8.7	22.0
3 2	11 52.97	− 0 23.8	2.183	3.144	5.3	21.7
3 12	11 44.38	+ 0 21.8	2.133	3.124	1.5	21.4
3 22	11 35.30	+ 1 11.3	2.113	3.103	2.5	21.5
4 1	11 26.58	+ 1 59.5	2.123	3.081	6.4	21.7
4 11	11 19.02	+ 2 41.4	2.161	3.058	9.9	21.8
4 21	11 13.24	+ 3 13.3	2.222	3.035	13.1	22.0

228261 1999 RJ_{82} 3 15.3 177°.78 1°.6/16.7 18

2 11	12 7.97	− 4 55.4	1.658	2.477	15.6	21.4
2 21	12 2.36	− 4 27.9	1.579	2.479	11.9	21.2
3 2	11 54.34	− 3 41.2	1.523	2.481	7.5	20.9
3 12	11 44.74	− 2 39.4	1.493	2.482	2.9	20.6
3 22	11 34.65	− 1 29.3	1.491	2.482	3.1	20.7
4 1	11 25.30	− 0 19.1	1.517	2.481	7.8	20.9
4 11	11 17.75	+ 0 43.0	1.570	2.480	12.2	21.2
4 21	11 12.68	+ 1 31.5	1.644	2.478	15.9	21.4

109769 2001 RU_{78} 3 15.3 136°.83 1°.8/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 8.50	+ 3 54.2	1.807	2.646	13.6	20.3
2 21	12 2.39	+ 4 46.5	1.744	2.660	9.9	20.1
3 2	11 54.16	+ 5 48.4	1.706	2.674	5.7	19.9
3 12	11 44.65	+ 6 53.1	1.696	2.687	1.9	19.6
3 22	11 34.89	+ 7 53.2	1.715	2.699	4.2	19.8
4 1	11 25.94	+ 8 42.2	1.763	2.710	8.3	20.1
4 11	11 18.72	+ 9 15.8	1.836	2.720	12.1	20.3
4 21	11 13.77	+ 9 32.1	1.931	2.730	15.2	20.6

264724 2002 CJ_{76} 3 15.3 343°.85 2°.6/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.37	+ 4 43.0	1.335	2.206	15.5	20.0
2 21	11 56.49	+ 5 36.4	1.261	2.194	11.3	19.7
3 2	11 51.08	+ 6 43.4	1.209	2.183	6.6	19.4
3 12	11 43.94	+ 7 55.4	1.182	2.173	2.7	19.1
3 22	11 36.22	+ 9 2.6	1.179	2.164	5.6	19.3
4 1	11 29.24	+ 9 55.4	1.201	2.156	10.5	19.5
4 11	11 24.18	+10 27.2	1.245	2.149	15.2	19.8
4 21	11 21.73	+10 35.5	1.307	2.144	19.1	20.0

200084 1981 EH_{29} 3 15.3 321°.44 3°.0/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.58	− 5 5.8	1.242	2.086	18.3	20.2
2 21	12 0.00	− 5 20.3	1.156	2.067	14.2	19.9
3 2	11 53.40	− 5 13.7	1.089	2.049	9.4	19.6
3 12	11 44.59	− 4 47.4	1.045	2.032	4.4	19.2
3 22	11 34.83	− 4 6.4	1.025	2.016	4.2	19.2
4 1	11 25.71	− 3 19.1	1.029	2.000	9.4	19.4
4 11	11 18.72	− 2 35.0	1.055	1.985	14.8	19.6
4 21	11 14.82	− 2 2.1	1.100	1.972	19.6	19.9

87226 2000 OY_{41} 3 15.3 148°.85 0°.8/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.58	− 4 45.3	2.298	3.109	12.1	20.2
2 21	11 57.77	− 3 46.2	2.220	3.118	9.0	20.0
3 2	11 51.35	− 2 32.0	2.168	3.127	5.5	19.8
3 12	11 43.94	− 1 7.2	2.145	3.135	1.8	19.6
3 22	11 36.27	+ 0 21.9	2.152	3.143	2.3	19.6
4 1	11 29.14	+ 1 48.5	2.189	3.150	6.0	19.9
4 11	11 23.24	+ 3 6.2	2.255	3.156	9.4	20.1
4 21	11 19.04	+ 4 10.8	2.344	3.162	12.3	20.3

460425 2014 ST_{154} 3 15.3 263°.18 0°.2/15.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.08	+ 1 4.2	1.606	2.445	15.0	21.3
2 21	12 2.64	+ 1 15.5	1.519	2.434	11.2	21.0
3 2	11 54.63	+ 1 39.2	1.456	2.422	6.7	20.7
3 12	11 44.84	+ 2 11.1	1.418	2.410	1.7	20.4
3 22	11 34.40	+ 2 45.3	1.408	2.398	3.5	20.5
4 1	11 24.61	+ 3 15.1	1.425	2.386	8.6	20.7
4 11	11 16.63	+ 3 34.8	1.467	2.373	13.2	21.0
4 21	11 11.23	+ 3 41.0	1.530	2.361	17.1	21.2

326353 2000 SC_{268} 3 15.3 212°.88 2°.2/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.94	− 8 51.4	2.194	2.991	13.0	20.9
2 21	11 57.51	− 8 6.7	2.100	2.986	10.1	20.7
3 2	11 51.31	− 7 2.6	2.031	2.980	6.7	20.5
3 12	11 43.96	− 5 42.5	1.989	2.973	3.3	20.3
3 22	11 36.23	− 4 12.0	1.977	2.967	2.7	20.2
4 1	11 28.96	− 2 38.4	1.995	2.960	6.1	20.4
4 11	11 22.94	− 1 9.2	2.040	2.952	9.7	20.6
4 21	11 18.71	+ 0 9.3	2.109	2.944	12.9	20.8

379416 2010 AV_{73} 3 15.3 48°.49 6°.0/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.17	+15 34.3	1.809	2.673	12.4	20.4
2 21	11 58.60	+16 59.8	1.754	2.677	9.3	20.2
3 2	11 51.99	+18 24.6	1.723	2.682	6.7	20.0
3 12	11 44.12	+19 39.5	1.720	2.686	6.1	20.0
3 22	11 35.97	+20 36.6	1.743	2.691	8.1	20.1
4 1	11 28.56	+21 10.7	1.792	2.696	11.1	20.3
4 11	11 22.78	+21 20.1	1.864	2.701	14.1	20.5
4 21	11 19.15	+21 6.2	1.955	2.706	16.7	20.7

369778 2012 GS_{26} 3 15.3 269°.00 0°.5/15.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.33	− 1 28.2	1.770	2.604	14.1	20.9
2 21	11 59.58	− 1 4.8	1.689	2.599	10.6	20.7
3 2	11 52.67	− 0 26.8	1.630	2.595	6.4	20.4
3 12	11 44.32	+ 0 21.3	1.599	2.590	1.8	20.1
3 22	11 35.51	+ 1 13.7	1.595	2.586	3.0	20.2
4 1	11 27.32	+ 2 3.5	1.619	2.581	7.5	20.4
4 11	11 20.72	+ 2 44.4	1.668	2.576	11.7	20.7
4 21	11 16.33	+ 3 12.3	1.739	2.572	15.3	20.9

422998 2003 SG_{211} 3 15.3 187°.21 2°.5/12.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.28	+ 7 2.5	2.381	3.226	10.6	21.3
2 21	11 57.56	+ 8 11.3	2.305	3.225	7.6	21.1
3 2	11 51.25	+ 9 26.4	2.256	3.224	4.5	20.9
3 12	11 43.93	+10 41.8	2.237	3.223	2.5	20.8
3 22	11 36.32	+11 51.2	2.247	3.222	4.4	20.9
4 1	11 29.20	+12 49.0	2.286	3.219	7.6	21.1
4 11	11 23.26	+13 31.7	2.352	3.217	10.6	21.3
4 21	11 18.97	+13 57.5	2.440	3.214	13.1	21.4

495439 2014 SD_{292} 3 15.3 163°.56 1°.8/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.07	− 6 29.9	2.004	2.811	13.7	22.1
2 21	11 59.85	− 5 58.8	1.924	2.817	10.5	21.9
3 2	11 52.70	− 5 10.1	1.868	2.821	6.7	21.7
3 12	11 44.32	− 4 7.4	1.839	2.825	2.9	21.5
3 22	11 35.58	− 2 56.5	1.839	2.829	2.8	21.5
4 1	11 27.46	− 1 44.4	1.868	2.832	6.5	21.7
4 11	11 20.78	− 0 37.9	1.924	2.834	10.3	21.9
4 21	11 16.12	+ 0 17.7	2.003	2.836	13.6	22.2

298877 Michaelreynolds 3 15.3 162°.62 0°.8/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.87	− 3 0.2	1.998	2.813	13.5	22.5
2 21	12 1.88	− 2 30.6	1.920	2.820	10.1	22.3
3 2	11 53.88	− 1 46.6	1.867	2.827	6.2	22.1
3 12	11 44.62	− 0 52.4	1.843	2.833	2.0	21.8
3 22	11 35.01	+ 0 6.4	1.847	2.838	2.7	21.9
4 1	11 26.06	+ 1 3.4	1.882	2.842	6.8	22.2
4 11	11 18.65	+ 1 52.6	1.943	2.845	10.6	22.4
4 21	11 13.32	+ 2 30.0	2.027	2.848	13.9	22.6

121929 2000 DB_{105} 3 15.3 312°.85 4°.9/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.05	+ 9 22.2	1.230	2.104	16.4	20.1
2 21	12 0.97	+10 26.7	1.159	2.092	12.1	19.8
3 2	11 53.87	+11 40.2	1.108	2.080	7.5	19.6
3 12	11 44.69	+12 51.9	1.082	2.068	4.9	19.4
3 22	11 34.79	+13 50.3	1.081	2.056	7.8	19.5
4 1	11 25.76	+14 26.0	1.103	2.045	12.7	19.7
4 11	11 19.00	+14 34.2	1.146	2.035	17.4	20.0
4 21	11 15.30	+14 15.1	1.206	2.025	21.5	20.2

202917 1997 WZ_{5} 3 15.3 66°.65 0°.5/15.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.59	− 2 10.2	2.138	2.964	12.3	20.1
2 21	11 57.21	− 1 37.7	2.058	2.965	9.2	19.9
3 2	11 51.10	− 0 52.2	2.004	2.966	5.5	19.7
3 12	11 43.91	+ 0 2.2	1.977	2.968	1.7	19.5
3 22	11 36.40	+ 1 0.2	1.978	2.969	2.5	19.5
4 1	11 29.42	+ 1 55.9	2.009	2.970	6.4	19.8
4 11	11 23.73	+ 2 43.8	2.066	2.972	9.9	20.0
4 21	11 19.82	+ 3 20.2	2.146	2.973	13.0	20.2

325616 2009 SO_{235} 3 15.3 228°.41 1°.4/16.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.56	− 4 25.1	2.141	2.953	12.8	21.5
2 21	11 59.49	− 4 3.1	2.046	2.943	9.7	21.2
3 2	11 52.53	− 3 26.2	1.976	2.933	6.1	21.0
3 12	11 44.30	− 2 37.7	1.934	2.922	2.4	20.7
3 22	11 35.60	− 1 42.1	1.920	2.911	2.6	20.7
4 1	11 27.36	− 0 45.5	1.936	2.899	6.5	20.9
4 11	11 20.43	+ 0 6.1	1.979	2.887	10.2	21.1
4 21	11 15.40	+ 0 48.2	2.045	2.874	13.5	21.3

169960 2002 TF_{116} 3 15.3 149°.53 3°.3/18.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.31	− 9 10.4	2.217	3.008	13.1	20.1
2 21	11 59.19	− 9 20.8	2.132	3.009	10.3	19.9
3 2	11 52.29	− 9 15.6	2.070	3.011	7.2	19.7
3 12	11 44.22	− 8 55.9	2.035	3.012	4.2	19.5
3 22	11 35.79	− 8 24.8	2.028	3.013	3.5	19.5
4 1	11 27.86	− 7 46.8	2.051	3.014	6.1	19.6
4 11	11 21.23	− 7 7.3	2.100	3.015	9.3	19.8
4 21	11 16.44	− 6 31.4	2.173	3.016	12.3	20.0

373331 2012 JG_{25} 3 15.3 232°.82 4°.5/20.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.07	−14 48.2	2.097	2.867	14.5	20.9
2 21	11 57.76	−14 27.6	2.000	2.859	11.8	20.7
3 2	11 51.54	−13 43.6	1.925	2.851	8.6	20.5
3 12	11 44.06	−12 37.6	1.875	2.843	5.7	20.3
3 22	11 36.12	−11 13.6	1.854	2.834	4.5	20.2
4 1	11 28.66	− 9 38.6	1.861	2.825	6.6	20.3
4 11	11 22.52	− 8 1.1	1.895	2.816	9.9	20.5
4 21	11 18.31	− 6 29.1	1.954	2.806	13.1	20.7

324018 2005 UE_{352} 3 15.3 221°.53 1°.6/13.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.99	+ 5 34.6	2.191	3.025	11.7	21.1
2 21	12 1.93	+ 5 58.7	2.102	3.016	8.6	20.9
3 2	11 53.93	+ 6 29.0	2.040	3.007	5.0	20.7
3 12	11 44.66	+ 7 1.0	2.006	2.997	1.8	20.4
3 22	11 34.96	+ 7 29.8	2.002	2.986	3.7	20.5
4 1	11 25.79	+ 7 50.7	2.028	2.975	7.5	20.7
4 11	11 17.98	+ 8 0.5	2.080	2.963	11.0	20.9
4 21	11 12.14	+ 7 57.5	2.155	2.951	14.0	21.1

298964 2004 VK_{16} 3 15.3 110°.29 1°.1/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.96	− 3 32.9	1.674	2.498	15.3	21.5
2 21	12 2.13	− 3 5.0	1.612	2.516	11.4	21.2
3 2	11 54.08	− 2 20.3	1.573	2.533	7.0	21.0
3 12	11 44.68	− 1 23.8	1.560	2.551	2.4	20.8
3 22	11 35.03	− 0 22.2	1.576	2.567	3.0	20.8
4 1	11 26.26	+ 0 37.0	1.620	2.583	7.5	21.1
4 11	11 19.31	+ 1 27.0	1.690	2.599	11.6	21.4
4 21	11 14.73	+ 2 3.6	1.782	2.614	15.0	21.7

216445 2009 FK_{34} 3 15.4 329°.14 2°.5/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.16	+ 5 10.1	1.271	2.138	16.4	20.5
2 21	12 0.21	+ 5 45.3	1.196	2.126	12.1	20.2
3 2	11 53.40	+ 6 32.6	1.143	2.115	7.1	19.8
3 12	11 44.60	+ 7 24.1	1.113	2.104	2.6	19.5
3 22	11 35.10	+ 8 10.6	1.109	2.094	5.5	19.7
4 1	11 26.43	+ 8 43.6	1.129	2.085	10.8	19.9
4 11	11 19.90	+ 8 57.1	1.170	2.077	15.8	20.2
4 21	11 16.30	+ 8 49.2	1.230	2.069	20.0	20.4

168294 4883 *P–L* 3 15.4 111°.52 0°.7/16.0 18

2 11	12 7.36	− 2 56.3	1.729	2.553	14.8	21.4
2 21	12 1.63	− 2 20.2	1.667	2.572	11.0	21.1
3 2	11 53.76	− 1 28.1	1.628	2.590	6.7	20.9
3 12	11 44.61	− 0 25.3	1.617	2.608	2.1	20.7
3 22	11 35.21	+ 0 41.2	1.634	2.625	2.9	20.8
4 1	11 26.68	+ 1 43.9	1.680	2.642	7.4	21.1
4 11	11 19.89	+ 2 36.3	1.751	2.657	11.4	21.3
4 21	11 15.39	+ 3 14.5	1.845	2.673	14.7	21.6

177623 2004 HU_{61} 3 15.4 0°.44 0°.5/15.0 18

2 11	12 5.61	+ 2 22.0	1.329	2.186	16.5	19.0
2 21	12 1.05	+ 2 24.1	1.261	2.184	12.2	18.7
3 2	11 53.76	+ 2 38.2	1.213	2.183	7.2	18.4
3 12	11 44.67	+ 2 59.3	1.191	2.183	1.8	18.1
3 22	11 35.05	+ 3 20.9	1.193	2.183	3.9	18.2
4 1	11 26.34	+ 3 36.6	1.221	2.185	9.3	18.5
4 11	11 19.74	+ 3 41.0	1.272	2.187	14.0	18.8
4 21	11 15.95	+ 3 31.4	1.342	2.191	18.1	19.1

163183 2002 CZ_{282} 3 15.4 61°.31 4°.7/11.6 18

2 11	12 6.22	+ 9 35.0	1.338	2.206	15.7	19.5
2 21	12 1.31	+10 47.2	1.287	2.218	11.4	19.3
3 2	11 53.76	+12 5.0	1.260	2.229	7.0	19.1
3 12	11 44.63	+13 17.9	1.258	2.242	4.7	19.0
3 22	11 35.21	+14 15.8	1.281	2.254	7.3	19.1
4 1	11 26.88	+14 51.4	1.330	2.266	11.5	19.4
4 11	11 20.73	+15 2.1	1.400	2.279	15.5	19.7
4 21	11 17.30	+14 48.7	1.489	2.292	18.8	19.9

260520 2005 EW_{97} 3 15.4 325°.51 2°.3/17.0 17

2 11	12 2.44	− 4 53.9	1.320	2.162	17.5	20.2
2 21	11 58.94	− 4 48.5	1.236	2.148	13.5	19.9
3 2	11 52.67	− 4 21.2	1.173	2.135	8.7	19.6
3 12	11 44.43	− 3 35.0	1.134	2.122	3.7	19.3
3 22	11 35.44	− 2 36.3	1.119	2.110	3.7	19.2
4 1	11 27.12	− 1 34.2	1.129	2.099	8.9	19.5
4 11	11 20.80	− 0 38.6	1.162	2.089	14.0	19.7
4 21	11 17.31	+ 0 3.2	1.214	2.079	18.5	20.0

466310 2013 QG_{48} 3 15.4 226°.31 0°.1/15.4 17

2 11	12 9.20	+ 1 7.3	2.283	3.102	11.9	21.8
2 21	12 2.80	+ 1 12.5	2.187	3.091	8.8	21.5
3 2	11 54.47	+ 1 26.2	2.116	3.079	5.3	21.3
3 12	11 44.83	+ 1 45.3	2.074	3.066	1.4	21.0
3 22	11 34.71	+ 2 6.1	2.062	3.052	2.7	21.1
4 1	11 25.05	+ 2 24.4	2.081	3.038	6.6	21.3
4 11	11 16.71	+ 2 36.4	2.128	3.023	10.2	21.5
4 21	11 10.28	+ 2 39.5	2.199	3.007	13.3	21.7

124183 2001 OE_{52} 3 15.4 222°.52 4°.9/10.9 18

2 11	12 9.00	+11 51.0	1.723	2.577	13.5	20.3
2 21	12 3.16	+12 59.8	1.646	2.568	10.0	20.1
3 2	11 54.88	+14 12.8	1.593	2.558	6.5	19.8
3 12	11 44.96	+15 21.0	1.568	2.547	4.9	19.7
3 22	11 34.50	+16 15.7	1.571	2.536	7.2	19.8
4 1	11 24.74	+16 50.2	1.601	2.524	10.9	20.0
4 11	11 16.77	+17 1.5	1.655	2.511	14.7	20.2
4 21	11 11.29	+16 50.0	1.728	2.498	17.9	20.4

429171 2009 VY_{65} 3 15.4 122°.99 0°.7/16.1 15

2 11	12 5.31	− 2 42.5	2.447	3.257	11.4	22.9
2 21	11 59.61	− 2 12.2	2.379	3.277	8.5	22.7
3 2	11 52.39	− 1 30.7	2.338	3.297	5.2	22.6
3 12	11 44.27	− 0 41.7	2.326	3.316	1.7	22.3
3 22	11 35.98	+ 0 10.2	2.344	3.334	2.2	22.4
4 1	11 28.27	+ 1 0.2	2.392	3.352	5.6	22.7
4 11	11 21.80	+ 1 43.7	2.469	3.369	8.8	22.9
4 21	11 17.01	+ 2 17.6	2.569	3.385	11.4	23.1

492419 2014 LA_{4} 3 15.4 255°.15 1°.1/14.5 17

2 11	12 6.64	+ 1 13.1	1.531	2.376	15.4	22.5
2 21	12 1.78	+ 2 1.7	1.441	2.360	11.4	22.2
3 2	11 54.26	+ 3 6.9	1.374	2.343	6.7	21.8
3 12	11 44.85	+ 4 22.3	1.333	2.325	1.7	21.5
3 22	11 34.68	+ 5 39.2	1.319	2.307	4.3	21.6
4 1	11 25.10	+ 6 47.8	1.332	2.288	9.5	21.8
4 11	11 17.35	+ 7 40.4	1.370	2.269	14.4	22.1
4 21	11 12.25	+ 8 12.6	1.427	2.250	18.5	22.3

388722 2007 VX_{167} 3 15.4 159°.68 4°.4/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.23	+17 8.2	2.831	3.677	9.1	21.5
2 21	11 58.74	+18 2.6	2.770	3.683	6.8	21.4
3 2	11 51.85	+18 54.7	2.736	3.689	4.9	21.2
3 12	11 44.13	+19 39.3	2.732	3.694	4.4	21.2
3 22	11 36.24	+20 12.1	2.757	3.699	5.8	21.3
4 1	11 28.84	+20 30.1	2.810	3.704	7.9	21.4
4 11	11 22.55	+20 32.4	2.889	3.708	10.1	21.6
4 21	11 17.76	+20 19.4	2.989	3.711	12.1	21.8

374347 2005 UF_{126} 3 15.4 64°.89 2°.1/17.4 18

2 11	12 3.35	− 6 17.0	1.726	2.546	15.1	21.1
2 21	11 58.82	− 5 55.0	1.657	2.556	11.5	20.8
3 2	11 52.19	− 5 14.0	1.610	2.566	7.4	20.6
3 12	11 44.26	− 4 18.0	1.589	2.576	3.3	20.4
3 22	11 36.00	− 3 13.1	1.595	2.586	3.0	20.4
4 1	11 28.46	− 2 6.9	1.629	2.596	7.0	20.7
4 11	11 22.56	− 1 6.8	1.689	2.606	11.0	20.9
4 21	11 18.84	− 0 18.3	1.771	2.617	14.5	21.1

352667 2008 RA_{69} 3 15.4 123°.11 1°.5/16.5 18

2 11	12 9.84	− 3 41.2	1.640	2.461	15.7	21.5
2 21	12 3.61	− 3 27.5	1.574	2.476	11.8	21.3
3 2	11 55.03	− 2 57.2	1.531	2.490	7.3	21.0
3 12	11 44.98	− 2 14.3	1.515	2.504	2.7	20.8
3 22	11 34.62	− 1 24.9	1.527	2.518	3.1	20.8
4 1	11 25.15	− 0 36.1	1.567	2.530	7.6	21.1
4 11	11 17.59	+ 0 5.6	1.632	2.542	11.8	21.4
4 21	11 12.52	+ 0 35.5	1.720	2.554	15.4	21.7

34366 Rosavestal 3 15.4 114°.92 3°.2/12.3 18

2 11	12 6.73	+ 9 27.5	1.976	2.825	12.2	18.5
2 21	12 1.00	+10 9.9	1.915	2.835	8.9	18.3
3 2	11 53.35	+10 55.8	1.878	2.845	5.4	18.1
3 12	11 44.54	+11 38.7	1.870	2.855	3.2	18.0
3 22	11 35.50	+12 12.9	1.890	2.864	5.1	18.1
4 1	11 27.19	+12 33.8	1.938	2.874	8.5	18.3
4 11	11 20.45	+12 38.9	2.012	2.883	11.8	18.5
4 21	11 15.77	+12 28.1	2.107	2.891	14.6	18.7

93885 2000 WO_{132} 3 15.4 228°.14 6°.6/21.9 18

2 11	12 5.49	−18 42.0	2.187	2.925	14.9	19.3
2 21	12 0.31	−19 13.6	2.089	2.918	12.6	19.1
3 2	11 53.12	−19 23.8	2.013	2.910	10.0	18.9
3 12	11 44.53	−19 11.3	1.961	2.902	7.6	18.7
3 22	11 35.40	−18 37.2	1.936	2.894	6.6	18.6
4 1	11 26.69	−17 45.5	1.938	2.886	7.7	18.7
4 11	11 19.34	−16 43.0	1.967	2.877	10.1	18.8
4 21	11 13.98	−15 37.1	2.020	2.868	12.9	19.0

190110 2004 TD_{356} 3 15.4 212°.39 3°.2/11.5 17

2 11	12 3.86	+ 9 26.8	2.352	3.199	10.6	21.0
2 21	11 58.81	+10 32.8	2.272	3.192	7.7	20.8
3 2	11 52.06	+11 43.4	2.218	3.184	4.8	20.6
3 12	11 44.23	+12 52.6	2.193	3.176	3.2	20.4
3 22	11 36.05	+13 54.0	2.199	3.168	5.1	20.5
4 1	11 28.34	+14 42.3	2.233	3.158	8.1	20.7
4 11	11 21.84	+15 14.2	2.293	3.149	11.1	20.9
4 21	11 17.08	+15 28.7	2.374	3.139	13.7	21.0

245196 2004 TA_{325} 3 15.4 165°.82 0°.2/15.5 18

2 11	12 7.78	− 0 47.5	1.737	2.567	14.5	21.4
2 21	12 2.11	− 0 19.5	1.662	2.571	10.8	21.1
3 2	11 54.17	+ 0 22.7	1.610	2.575	6.4	20.9
3 12	11 44.78	+ 1 14.1	1.586	2.578	1.7	20.6
3 22	11 34.98	+ 2 8.3	1.590	2.580	3.1	20.7
4 1	11 25.91	+ 2 58.3	1.622	2.582	7.8	21.0
4 11	11 18.57	+ 3 38.1	1.680	2.583	11.9	21.2
4 21	11 13.57	+ 4 3.9	1.760	2.584	15.5	21.4

426033 2011 QF_{75} 3 15.4 246°.56 0°.1/15.5 17

2 11	12 0.35	− 1 42.1	2.317	3.143	11.5	21.3
2 21	11 56.26	− 0 52.9	2.230	3.138	8.5	21.1
3 2	11 50.57	+ 0 9.1	2.169	3.133	5.1	20.9
3 12	11 43.85	+ 1 19.7	2.135	3.127	1.3	20.6
3 22	11 36.80	+ 2 33.0	2.132	3.122	2.5	20.7
4 1	11 30.19	+ 3 43.0	2.157	3.116	6.2	20.9
4 11	11 24.73	+ 4 44.1	2.210	3.110	9.6	21.1
4 21	11 20.90	+ 5 32.4	2.286	3.105	12.6	21.3

387015 2012 RW_{24} 3 15.4 94°.17 1°.3/16.9 15

2 11	12 4.75	− 4 7.6	2.577	3.380	11.1	21.6
2 21	11 59.12	− 3 55.4	2.514	3.406	8.4	21.4
3 2	11 52.07	− 3 32.2	2.477	3.431	5.2	21.3
3 12	11 44.21	− 3 0.9	2.468	3.456	2.1	21.1
3 22	11 36.21	− 2 25.1	2.490	3.480	2.2	21.1
4 1	11 28.79	− 1 49.0	2.542	3.504	5.2	21.4
4 11	11 22.55	− 1 16.4	2.623	3.528	8.1	21.6
4 21	11 17.88	− 0 50.6	2.728	3.551	10.6	21.8

380919 2006 FF_{27} 3 15.4 221°.73 2°.0/13.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.57	+ 6 20.0	2.188	3.030	11.4	21.0
2 21	11 59.40	+ 6 55.7	2.108	3.026	8.3	20.8
3 2	11 52.44	+ 7 37.5	2.054	3.022	4.9	20.6
3 12	11 44.34	+ 8 20.3	2.028	3.017	2.1	20.4
3 22	11 35.89	+ 8 58.6	2.031	3.013	4.0	20.5
4 1	11 27.98	+ 9 27.8	2.063	3.008	7.5	20.7
4 11	11 21.39	+ 9 44.4	2.121	3.002	10.8	20.9
4 21	11 16.65	+ 9 46.9	2.202	2.997	13.7	21.1

2020 Ukko 3 15.4 48°.38 2°.4/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.42	+ 5 10.4	2.026	2.877	11.9	15.8
2 21	11 56.43	+ 6 24.1	1.959	2.883	8.5	15.6
3 2	11 50.70	+ 7 46.5	1.918	2.888	4.9	15.4
3 12	11 43.89	+ 9 10.6	1.904	2.893	2.4	15.3
3 22	11 36.81	+10 29.0	1.920	2.899	4.5	15.4
4 1	11 30.31	+11 35.0	1.963	2.904	8.1	15.6
4 11	11 25.15	+12 23.9	2.032	2.910	11.4	15.9
4 21	11 21.81	+12 54.1	2.122	2.916	14.2	16.1

517558 2014 TE_{8} 3 15.4 99°.88 0°.4/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.53	− 0 7.1	1.862	2.695	13.6	22.2
2 21	12 0.16	+ 0 41.3	1.803	2.715	9.9	22.0
3 2	11 52.87	+ 1 42.3	1.769	2.735	5.8	21.8
3 12	11 44.44	+ 2 50.0	1.762	2.754	1.4	21.5
3 22	11 35.81	+ 3 57.3	1.784	2.773	3.1	21.7
4 1	11 27.97	+ 4 57.5	1.835	2.792	7.3	22.0
4 11	11 21.71	+ 5 45.3	1.912	2.810	11.0	22.2
4 21	11 17.54	+ 6 17.7	2.011	2.828	14.1	22.5

241173 2007 RC_{207} 3 15.4 77°.97 1°.7/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.97	+ 5 9.8	2.094	2.938	11.9	21.0
2 21	11 58.92	+ 5 44.1	2.029	2.947	8.6	20.8
3 2	11 52.11	+ 6 25.0	1.988	2.957	5.0	20.6
3 12	11 44.25	+ 7 7.4	1.976	2.967	1.8	20.4
3 22	11 36.16	+ 7 46.0	1.993	2.977	3.7	20.5
4 1	11 28.70	+ 8 16.0	2.038	2.986	7.3	20.8
4 11	11 22.63	+ 8 33.9	2.109	2.996	10.6	21.0
4 21	11 18.43	+ 8 38.3	2.202	3.006	13.5	21.2

171239 2005 KO_{10} 3 15.4 199°.38 4°.9/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.19	+16 39.9	2.375	3.226	10.3	20.2
2 21	11 59.00	+17 36.7	2.308	3.225	7.8	20.0
3 2	11 52.14	+18 31.6	2.268	3.223	5.6	19.9
3 12	11 44.26	+19 18.5	2.256	3.222	5.0	19.8
3 22	11 36.12	+19 51.9	2.273	3.220	6.6	19.9
4 1	11 28.55	+20 8.3	2.317	3.218	9.1	20.1
4 11	11 22.25	+20 6.4	2.386	3.216	11.6	20.2
4 21	11 17.71	+19 46.9	2.476	3.214	13.9	20.4

192745 1999 TO_{226} 3 15.4 129°.19 0°.8/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.28	+ 2 36.8	1.995	2.832	12.6	20.5
2 21	12 0.02	+ 2 59.9	1.920	2.834	9.2	20.3
3 2	11 52.84	+ 3 32.1	1.870	2.837	5.4	20.1
3 12	11 44.46	+ 4 8.8	1.848	2.840	1.4	19.8
3 22	11 35.74	+ 4 44.8	1.854	2.842	3.2	19.9
4 1	11 27.65	+ 5 14.8	1.889	2.844	7.2	20.2
4 11	11 21.02	+ 5 34.7	1.950	2.847	10.9	20.4
4 21	11 16.39	+ 5 42.3	2.033	2.849	14.0	20.6

1303 Luthera 3 15.4 354°.03 9°.6/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.16	+30 13.9	2.057	2.900	12.1	14.1
2 21	12 0.05	+31 35.3	2.011	2.898	10.4	14.0
3 2	11 52.87	+32 43.3	1.990	2.896	9.6	13.9
3 12	11 44.45	+33 29.5	1.993	2.894	10.0	14.0
3 22	11 35.79	+33 48.5	2.021	2.893	11.4	14.0
4 1	11 27.93	+33 38.1	2.072	2.892	13.4	14.2
4 11	11 21.74	+33 0.1	2.142	2.892	15.3	14.3
4 21	11 17.73	+31 58.4	2.230	2.892	17.1	14.5

503763 2016 PS_{9} 3 15.4 282°.92 3°.0/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.79	+ 9 1.4	2.316	3.168	10.5	21.2
2 21	11 56.61	+10 3.7	2.235	3.158	7.7	21.0
3 2	11 50.80	+11 11.1	2.180	3.148	4.7	20.8
3 12	11 43.94	+12 17.6	2.154	3.138	3.1	20.7
3 22	11 36.73	+13 16.9	2.157	3.128	4.9	20.8
4 1	11 29.98	+14 3.9	2.188	3.118	8.0	20.9
4 11	11 24.40	+14 35.0	2.245	3.108	11.0	21.1
4 21	11 20.48	+14 48.9	2.323	3.099	13.7	21.3

457266 2008 RL_{41} 3 15.4 156°.73 0°.1/15.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.66	− 0 56.4	1.609	2.443	15.3	22.7
2 21	12 2.16	− 0 19.5	1.537	2.449	11.3	22.5
3 2	11 54.27	+ 0 33.2	1.489	2.454	6.7	22.2
3 12	11 44.85	+ 1 35.9	1.466	2.458	1.7	21.9
3 22	11 35.00	+ 2 41.2	1.472	2.462	3.4	22.0
4 1	11 25.95	+ 3 40.9	1.506	2.466	8.2	22.3
4 11	11 18.75	+ 4 28.3	1.564	2.469	12.6	22.6
4 21	11 14.02	+ 4 59.6	1.644	2.471	16.3	22.8

44836 1999 TB_{262} 3 15.4 337°.89 1°.3/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.17	− 2 49.7	1.321	2.169	17.2	19.3
2 21	11 59.41	− 2 38.8	1.244	2.161	13.0	19.0
3 2	11 52.92	− 2 8.3	1.188	2.153	8.1	18.7
3 12	11 44.56	− 1 22.4	1.155	2.146	2.8	18.4
3 22	11 35.53	− 0 28.2	1.148	2.140	3.5	18.4
4 1	11 27.27	+ 0 25.5	1.165	2.134	8.9	18.7
4 11	11 21.04	+ 1 10.0	1.206	2.129	14.0	18.9
4 21	11 17.59	+ 1 39.5	1.266	2.125	18.3	19.2

270562 2002 GC_{189} 3 15.4 228°.71 2°.3/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.54	+ 6 33.9	2.043	2.889	12.0	20.8
2 21	11 59.50	+ 7 15.6	1.965	2.885	8.7	20.6
3 2	11 52.56	+ 8 3.9	1.913	2.881	5.1	20.3
3 12	11 44.40	+ 8 53.1	1.888	2.877	2.3	20.1
3 22	11 35.88	+ 9 37.1	1.892	2.873	4.4	20.3
4 1	11 27.93	+10 10.6	1.925	2.868	8.0	20.5
4 11	11 21.39	+10 30.0	1.982	2.864	11.5	20.7
4 21	11 16.81	+10 33.7	2.062	2.859	14.5	20.9

492664 2014 PX_{8} 3 15.4 193°.30 2°.0/13.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.71	+ 3 29.6	1.794	2.638	13.5	22.5
2 21	12 0.60	+ 4 37.4	1.717	2.637	9.8	22.2
3 2	11 53.31	+ 5 57.2	1.666	2.635	5.7	22.0
3 12	11 44.61	+ 7 21.7	1.641	2.632	2.1	21.7
3 22	11 35.48	+ 8 42.5	1.646	2.629	4.5	21.9
4 1	11 27.00	+ 9 51.5	1.679	2.625	8.8	22.1
4 11	11 20.12	+10 43.0	1.737	2.621	12.7	22.3
4 21	11 15.48	+11 14.4	1.816	2.615	16.0	22.6

166858 2002 XL 3 15.4 103°.17 4°.0/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.94	+12 21.5	2.288	3.141	10.6	20.2
2 21	11 58.05	+13 29.1	2.233	3.154	7.8	20.0
3 2	11 51.55	+14 37.8	2.203	3.167	5.1	19.8
3 12	11 44.12	+15 41.2	2.203	3.179	4.0	19.8
3 22	11 36.50	+16 33.3	2.232	3.192	5.7	19.9
4 1	11 29.48	+17 9.8	2.288	3.204	8.5	20.1
4 11	11 23.76	+17 28.7	2.370	3.216	11.1	20.3
4 21	11 19.76	+17 30.0	2.472	3.228	13.5	20.5

221103 2005 SN_{111} 3 15.4 101°.72 1°.4/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.27	+ 5 26.3	1.901	2.738	13.1	20.3
2 21	12 3.62	+ 5 37.6	1.838	2.753	9.6	20.1
3 2	11 54.91	+ 5 54.9	1.801	2.768	5.5	19.8
3 12	11 44.98	+ 6 13.4	1.791	2.782	1.7	19.6
3 22	11 34.84	+ 6 28.4	1.811	2.797	3.7	19.8
4 1	11 25.53	+ 6 35.8	1.859	2.810	7.7	20.0
4 11	11 17.93	+ 6 32.8	1.934	2.824	11.3	20.3
4 21	11 12.55	+ 6 18.3	2.031	2.837	14.4	20.5

111525 2001 YX_{109} 3 15.4 192°.22 9°.7/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.71	−31 7.1	2.611	3.241	15.0	18.7
2 21	12 1.15	−32 19.0	2.518	3.241	13.6	18.5
3 2	11 53.63	−33 8.5	2.444	3.241	12.0	18.4
3 12	11 44.72	−33 32.2	2.392	3.240	10.6	18.3
3 22	11 35.23	−33 28.8	2.363	3.240	9.8	18.3
4 1	11 26.11	−33 0.1	2.359	3.240	9.8	18.3
4 11	11 18.26	−32 11.0	2.380	3.239	10.7	18.3
4 21	11 12.33	−31 8.2	2.424	3.239	12.1	18.4

23415 1979 MQ_{3} 3 15.4 93°.71 3°.3/12.1 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.75	+ 6 27.7	1.690	2.543	13.8	18.4
2 21	12 0.47	+ 7 56.4	1.642	2.566	9.9	18.2
3 2	11 53.10	+ 9 32.7	1.619	2.588	5.8	18.0
3 12	11 44.52	+11 7.2	1.624	2.610	3.3	17.9
3 22	11 35.79	+12 30.8	1.657	2.632	5.7	18.1
4 1	11 27.95	+13 36.1	1.718	2.653	9.4	18.3
4 11	11 21.86	+14 19.5	1.803	2.674	13.0	18.6
4 21	11 18.02	+14 40.5	1.909	2.695	15.9	18.8

478385 2012 BP_{13} 3 15.4 122°.72 5°.1/18.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.41	−10 57.6	1.350	2.145	19.8	22.6
2 21	12 8.90	−11 16.8	1.289	2.168	15.6	22.4
3 2	11 58.36	−11 9.7	1.249	2.189	10.9	22.2
3 12	11 45.91	−10 37.3	1.233	2.209	6.5	22.0
3 22	11 33.09	− 9 44.9	1.244	2.228	5.4	22.0
4 1	11 21.51	− 8 41.3	1.282	2.245	8.9	22.2
4 11	11 12.47	− 7 37.3	1.344	2.262	13.3	22.5
4 21	11 6.63	− 6 41.3	1.428	2.277	17.2	22.8

82708 2001 PX_{42} 3 15.4 276°.40 7°.2/21.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.26	−17 35.3	1.827	2.585	16.7	19.1
2 21	12 0.58	−18 12.2	1.727	2.570	14.1	18.8
3 2	11 53.52	−18 25.4	1.647	2.555	11.1	18.6
3 12	11 44.73	−18 12.6	1.590	2.539	8.4	18.4
3 22	11 35.19	−17 34.7	1.559	2.524	7.2	18.3
4 1	11 26.08	−16 36.4	1.554	2.508	8.7	18.3
4 11	11 18.53	−15 25.8	1.575	2.492	11.7	18.5
4 21	11 13.33	−14 12.0	1.618	2.476	15.0	18.6

140021 2001 SW_{52} 3 15.4 129°.07 3°.4/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.75	+12 19.6	2.369	3.216	10.5	20.3
2 21	12 0.07	+12 53.4	2.302	3.221	7.7	20.1
3 2	11 52.75	+13 27.7	2.262	3.226	4.9	19.9
3 12	11 44.44	+13 57.4	2.250	3.231	3.4	19.8
3 22	11 35.92	+14 17.8	2.268	3.235	5.1	20.0
4 1	11 27.99	+14 25.8	2.314	3.240	7.9	20.1
4 11	11 21.37	+14 19.5	2.386	3.244	10.7	20.3
4 21	11 16.51	+13 59.3	2.481	3.249	13.1	20.5

246784 2009 DA_{56} 3 15.4 215°.02 1°.5/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.25	+ 4 21.7	2.575	3.413	10.1	21.3
2 21	11 56.77	+ 5 11.8	2.492	3.408	7.3	21.1
3 2	11 50.84	+ 6 9.1	2.435	3.403	4.2	20.9
3 12	11 43.97	+ 7 9.1	2.408	3.398	1.6	20.7
3 22	11 36.81	+ 8 6.6	2.410	3.393	3.3	20.8
4 1	11 30.07	+ 8 56.7	2.442	3.387	6.5	21.0
4 11	11 24.38	+ 9 35.6	2.501	3.381	9.4	21.2
4 21	11 20.19	+10 1.3	2.583	3.375	12.0	21.3

415759 2000 RA_{100} 3 15.4 96°.29 7°.7/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.72	−23 25.0	2.315	3.006	15.4	21.1
2 21	12 4.58	−24 17.8	2.249	3.036	13.2	20.9
3 2	11 55.48	−24 47.2	2.204	3.065	10.8	20.8
3 12	11 45.16	−24 51.7	2.184	3.094	8.8	20.7
3 22	11 34.56	−24 32.2	2.191	3.122	7.8	20.7
4 1	11 24.68	−23 52.5	2.226	3.150	8.2	20.8
4 11	11 16.36	−22 59.3	2.287	3.176	9.8	20.9
4 21	11 10.15	−21 59.9	2.373	3.202	11.8	21.1

135326 2001 SP_{318} 3 15.4 218°.11 0°.1/15.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.40	− 0 35.8	2.795	3.613	10.0	22.2
2 21	11 57.54	− 0 5.7	2.701	3.604	7.4	22.0
3 2	11 51.27	+ 0 33.8	2.633	3.595	4.4	21.8
3 12	11 44.09	+ 1 19.3	2.594	3.585	1.2	21.5
3 22	11 36.60	+ 2 7.0	2.585	3.575	2.2	21.6
4 1	11 29.46	+ 2 52.5	2.607	3.564	5.4	21.8
4 11	11 23.29	+ 3 31.9	2.657	3.553	8.4	22.0
4 21	11 18.54	+ 4 2.2	2.732	3.542	11.0	22.1

277446 2005 UV_{476} 3 15.4 160°.50 1°.7/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.34	+ 4 39.9	2.157	2.995	11.8	21.9
2 21	11 59.94	+ 5 25.0	2.084	3.001	8.5	21.7
3 2	11 52.76	+ 6 17.6	2.037	3.005	4.9	21.5
3 12	11 44.48	+ 7 12.5	2.019	3.010	1.8	21.2
3 22	11 35.90	+ 8 3.8	2.031	3.014	3.8	21.4
4 1	11 27.92	+ 8 46.0	2.071	3.017	7.4	21.6
4 11	11 21.31	+ 9 15.4	2.137	3.020	10.7	21.8
4 21	11 16.57	+ 9 30.2	2.227	3.022	13.6	22.0

500692 2012 VF_{95} 3 15.4 161°.88 1°.1/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.30	+ 3 59.3	2.785	3.617	9.6	22.3
2 21	11 57.38	+ 4 39.2	2.709	3.622	6.9	22.2
3 2	11 51.12	+ 5 25.2	2.660	3.627	4.0	22.0
3 12	11 44.04	+ 6 13.5	2.640	3.631	1.3	21.8
3 22	11 36.74	+ 6 59.7	2.651	3.635	2.9	21.9
4 1	11 29.88	+ 7 39.7	2.692	3.639	5.8	22.1
4 11	11 24.02	+ 8 10.4	2.760	3.642	8.6	22.3
4 21	11 19.59	+ 8 29.9	2.852	3.644	11.0	22.5

279970 2001 TZ_{54} 3 15.4 163°.91 0°.4/15.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.11	+ 1 16.4	1.813	2.643	14.0	21.4
2 21	12 3.74	+ 1 41.1	1.739	2.649	10.3	21.2
3 2	11 55.13	+ 2 17.1	1.689	2.654	6.1	20.9
3 12	11 45.10	+ 2 59.4	1.667	2.659	1.5	20.6
3 22	11 34.69	+ 3 42.2	1.674	2.663	3.3	20.8
4 1	11 25.03	+ 4 19.4	1.709	2.666	7.8	21.0
4 11	11 17.09	+ 4 45.9	1.771	2.668	11.8	21.3
4 21	11 11.49	+ 4 59.0	1.855	2.670	15.2	21.5

299528 2006 DF_{21} 3 15.4 151°.99 2°.0/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.65	− 5 5.5	1.684	2.500	15.5	21.7
2 21	12 2.85	− 4 56.6	1.609	2.506	11.8	21.4
3 2	11 54.68	− 4 30.1	1.556	2.512	7.6	21.2
3 12	11 45.00	− 3 49.2	1.530	2.518	3.2	20.9
3 22	11 34.88	− 2 59.3	1.532	2.523	3.2	21.0
4 1	11 25.53	− 2 7.7	1.563	2.527	7.5	21.2
4 11	11 17.98	− 1 21.2	1.618	2.531	11.7	21.5
4 21	11 12.87	− 0 45.2	1.696	2.535	15.4	21.7

39734 Marchiori 3 15.4 199°.43 0°.5/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.29	+ 1 5.5	2.082	2.909	12.5	20.3
2 21	12 1.53	+ 1 41.0	1.996	2.905	9.3	20.0
3 2	11 53.80	+ 2 27.7	1.935	2.901	5.4	19.8
3 12	11 44.78	+ 3 20.7	1.903	2.895	1.3	19.5
3 22	11 35.33	+ 4 14.5	1.901	2.889	3.1	19.6
4 1	11 26.43	+ 5 2.9	1.928	2.882	7.2	19.9
4 11	11 18.95	+ 5 40.9	1.982	2.875	10.9	20.1
4 21	11 13.47	+ 6 5.6	2.058	2.866	14.1	20.3

185881 2000 OQ_{44} 3 15.4 202°.23 1°.3/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.18	− 5 24.1	2.721	3.518	10.8	21.2
2 21	11 58.89	− 4 55.9	2.624	3.513	8.2	21.0
3 2	11 52.09	− 4 15.0	2.553	3.506	5.2	20.8
3 12	11 44.33	− 3 24.1	2.511	3.499	2.2	20.6
3 22	11 36.22	− 2 27.2	2.500	3.490	2.2	20.6
4 1	11 28.50	− 1 29.0	2.520	3.481	5.3	20.7
4 11	11 21.80	− 0 34.4	2.568	3.471	8.3	20.9
4 21	11 16.61	+ 0 12.6	2.642	3.461	11.0	21.1

415809 2001 PX_{31} 3 15.4 232°.80 3°.8/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.15	+11 28.8	2.104	2.950	11.7	21.3
2 21	12 2.21	+12 15.5	2.019	2.937	8.6	21.1
3 2	11 54.23	+13 4.9	1.960	2.924	5.5	20.8
3 12	11 44.90	+13 50.6	1.929	2.910	3.8	20.7
3 22	11 35.11	+14 26.4	1.928	2.896	5.7	20.8
4 1	11 25.86	+14 47.4	1.955	2.881	9.1	21.0
4 11	11 18.07	+14 51.0	2.007	2.866	12.4	21.1
4 21	11 12.33	+14 37.0	2.081	2.850	15.3	21.3

332094 2005 UR_{121} 3 15.4 228°.96 1°.6/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.64	− 4 57.4	1.889	2.708	14.0	21.8
2 21	11 59.03	− 4 33.0	1.804	2.704	10.6	21.6
3 2	11 52.40	− 3 51.6	1.743	2.701	6.8	21.4
3 12	11 44.43	− 2 56.9	1.709	2.697	2.7	21.1
3 22	11 36.02	− 1 54.3	1.703	2.694	2.8	21.1
4 1	11 28.18	− 0 50.9	1.725	2.690	6.9	21.3
4 11	11 21.81	+ 0 6.5	1.773	2.686	10.9	21.6
4 21	11 17.51	+ 0 52.7	1.844	2.682	14.3	21.8

218674 2005 SX_{255} 3 15.4 221°.20 0°.1/15.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.66	− 1 4.7	1.778	2.613	14.0	20.9
2 21	11 59.11	− 0 26.2	1.700	2.612	10.4	20.7
3 2	11 52.46	+ 0 27.2	1.646	2.611	6.2	20.4
3 12	11 44.44	+ 1 30.3	1.618	2.610	1.6	20.1
3 22	11 36.01	+ 2 36.3	1.619	2.609	3.1	20.2
4 1	11 28.21	+ 3 37.8	1.647	2.608	7.6	20.5
4 11	11 21.98	+ 4 28.1	1.701	2.606	11.7	20.7
4 21	11 17.91	+ 5 3.5	1.776	2.605	15.2	21.0

351922 2006 SC_{389} 3 15.4 160°.24 3°.9/10.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.77	+13 36.4	2.615	3.466	9.5	21.7
2 21	11 57.11	+14 43.3	2.550	3.469	7.0	21.6
3 2	11 51.01	+15 50.8	2.512	3.473	4.7	21.4
3 12	11 44.03	+16 53.1	2.503	3.476	4.0	21.4
3 22	11 36.83	+17 44.9	2.524	3.478	5.5	21.5
4 1	11 30.10	+18 22.4	2.573	3.481	8.0	21.6
4 11	11 24.48	+18 43.2	2.647	3.483	10.4	21.8
4 21	11 20.37	+18 47.5	2.743	3.485	12.6	21.9

471369 2011 SF_{62} 3 15.4 136°.13 3°.4/19.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.02	−11 8.4	2.584	3.359	11.9	22.2
2 21	11 58.08	−11 13.9	2.499	3.365	9.5	22.0
3 2	11 51.62	−11 4.3	2.438	3.370	6.7	21.9
3 12	11 44.20	−10 41.0	2.404	3.375	4.2	21.7
3 22	11 36.49	−10 6.5	2.399	3.380	3.5	21.7
4 1	11 29.23	− 9 24.9	2.423	3.385	5.4	21.8
4 11	11 23.07	− 8 41.0	2.476	3.390	8.1	22.0
4 21	11 18.47	− 7 59.6	2.553	3.394	10.7	22.2

275591 1999 VJ_{75} 3 15.4 112°.74 1°.1/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.85	− 4 23.2	2.252	3.063	12.3	21.4
2 21	11 58.74	− 3 50.9	2.183	3.080	9.2	21.3
3 2	11 52.00	− 3 5.1	2.139	3.096	5.7	21.1
3 12	11 44.29	− 2 9.5	2.123	3.112	2.1	20.8
3 22	11 36.37	− 1 9.3	2.137	3.128	2.3	20.9
4 1	11 29.05	− 0 10.0	2.181	3.143	5.9	21.1
4 11	11 23.02	+ 0 42.8	2.252	3.158	9.2	21.4
4 21	11 18.73	+ 1 25.4	2.346	3.172	12.0	21.6

519611 2012 UF_{103} 3 15.4 299°.25 1°.6/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.19	+ 4 33.1	2.137	2.982	11.6	21.6
2 21	11 57.75	+ 5 13.6	2.056	2.976	8.4	21.4
3 2	11 51.54	+ 6 2.0	2.001	2.970	4.9	21.2
3 12	11 44.20	+ 6 53.4	1.973	2.964	1.7	21.0
3 22	11 36.51	+ 7 41.9	1.974	2.958	3.7	21.1
4 1	11 29.32	+ 8 22.2	2.004	2.953	7.4	21.3
4 11	11 23.42	+ 8 50.2	2.059	2.947	10.8	21.5
4 21	11 19.32	+ 9 3.7	2.136	2.942	13.8	21.7

3202 Graff 3 15.4 51°.42 1°.9/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 58.00	− 8 12.3	2.868	3.662	10.4	16.7
2 21	11 54.26	− 7 43.4	2.788	3.670	8.0	16.5
3 2	11 49.30	− 7 1.4	2.732	3.679	5.3	16.3
3 12	11 43.60	− 6 8.8	2.705	3.688	2.7	16.2
3 22	11 37.71	− 5 9.4	2.708	3.696	2.2	16.2
4 1	11 32.20	− 4 7.7	2.740	3.705	4.6	16.3
4 11	11 27.61	− 3 8.3	2.800	3.714	7.3	16.5
4 21	11 24.31	− 2 15.1	2.886	3.724	9.7	16.7

148531 2001 QZ_{27} 3 15.4 102°.50 1°.7/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 8.15	+ 5 2.7	2.056	2.892	12.3	20.1
2 21	12 1.89	+ 5 41.9	2.002	2.917	8.9	19.9
3 2	11 53.83	+ 6 27.5	1.974	2.941	5.1	19.7
3 12	11 44.75	+ 7 14.1	1.975	2.965	1.8	19.6
3 22	11 35.56	+ 7 55.9	2.005	2.989	3.8	19.7
4 1	11 27.16	+ 8 28.2	2.065	3.011	7.4	20.0
4 11	11 20.30	+ 8 47.8	2.151	3.033	10.7	20.2
4 21	11 15.44	+ 8 53.7	2.259	3.055	13.4	20.5

82046 2000 SA_{246} 3 15.4 257°.60 2°.2/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.94	+ 7 28.3	2.415	3.258	10.5	19.7
2 21	11 58.15	+ 8 7.8	2.329	3.248	7.6	19.5
3 2	11 51.73	+ 8 52.4	2.270	3.238	4.5	19.3
3 12	11 44.25	+ 9 37.1	2.239	3.227	2.2	19.1
3 22	11 36.44	+10 17.1	2.238	3.216	4.0	19.3
4 1	11 29.06	+10 47.7	2.265	3.205	7.2	19.4
4 11	11 22.83	+11 5.8	2.319	3.194	10.3	19.6
4 21	11 18.26	+11 10.1	2.395	3.183	13.0	19.8

308228 2005 EE_{250} 3 15.4 65°.67 10°.1/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.12	+24 26.8	1.473	2.334	14.9	19.9
2 21	12 3.47	+26 1.8	1.431	2.341	12.1	19.8
3 2	11 55.11	+27 25.2	1.412	2.347	10.3	19.7
3 12	11 45.13	+28 24.8	1.417	2.354	10.4	19.7
3 22	11 34.89	+28 52.7	1.447	2.361	12.3	19.8
4 1	11 25.83	+28 45.6	1.499	2.368	15.1	20.0
4 11	11 19.02	+28 6.2	1.571	2.375	17.8	20.2
4 21	11 15.04	+26 59.9	1.659	2.382	20.2	20.4

209654 2005 CX_{15} 3 15.4 55°.88 0°.6/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.45	− 2 11.4	1.346	2.190	17.1	20.5
2 21	12 0.79	− 1 40.7	1.289	2.205	12.7	20.2
3 2	11 53.55	− 0 51.3	1.253	2.219	7.6	20.0
3 12	11 44.74	+ 0 10.5	1.243	2.234	2.2	19.7
3 22	11 35.61	+ 1 16.2	1.258	2.249	3.4	19.8
4 1	11 27.50	+ 2 16.6	1.300	2.265	8.6	20.1
4 11	11 21.48	+ 3 4.1	1.365	2.281	13.2	20.4
4 21	11 18.12	+ 3 34.6	1.450	2.297	17.1	20.7

500304 2012 QQ_{39} 3 15.4 105°.71 1°.2/16.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.46	− 2 56.7	2.312	3.124	12.0	21.4
2 21	11 59.91	− 2 52.8	2.239	3.137	9.0	21.2
3 2	11 52.71	− 2 37.8	2.191	3.149	5.6	21.0
3 12	11 44.50	− 2 14.4	2.172	3.161	2.1	20.8
3 22	11 36.05	− 1 46.3	2.182	3.172	2.4	20.9
4 1	11 28.17	− 1 17.7	2.221	3.184	5.8	21.1
4 11	11 21.57	− 0 52.9	2.288	3.195	9.0	21.3
4 21	11 16.74	− 0 35.1	2.379	3.206	11.9	21.5

12346 1993 FK_{25} 3 15.4 103°.85 1°.0/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.43	− 3 31.3	1.769	2.592	14.6	18.6
2 21	12 0.99	− 2 58.6	1.706	2.610	10.9	18.4
3 2	11 53.47	− 2 10.0	1.667	2.627	6.7	18.2
3 12	11 44.70	− 1 10.1	1.654	2.644	2.2	18.0
3 22	11 35.69	− 0 5.6	1.670	2.661	2.8	18.0
4 1	11 27.48	+ 0 56.1	1.714	2.677	7.1	18.3
4 11	11 20.95	+ 1 48.7	1.784	2.693	11.1	18.6
4 21	11 16.63	+ 2 27.9	1.877	2.708	14.4	18.8

68583 2001 YD_{150} 3 15.4 356°.44 3°.1/18.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 58.83	−10 6.1	1.486	2.306	17.0	18.9
2 21	11 55.95	− 9 25.4	1.407	2.303	13.3	18.6
3 2	11 50.77	− 8 16.6	1.349	2.301	9.0	18.4
3 12	11 44.06	− 6 43.9	1.316	2.300	4.6	18.1
3 22	11 36.87	− 4 55.3	1.308	2.299	3.6	18.0
4 1	11 30.36	− 3 2.0	1.327	2.299	7.7	18.3
4 11	11 25.59	− 1 15.9	1.371	2.299	12.2	18.5
4 21	11 23.18	+ 0 14.2	1.437	2.301	16.2	18.8

33243 1998 HY_{7} 3 15.4 315°.88 11°.1/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.78	+26 46.0	1.557	2.420	14.1	17.6
2 21	11 59.85	+28 45.5	1.493	2.398	12.1	17.4
3 2	11 53.21	+30 35.7	1.453	2.377	11.1	17.3
3 12	11 44.72	+32 3.1	1.436	2.355	11.8	17.3
3 22	11 35.58	+32 57.4	1.443	2.335	13.9	17.3
4 1	11 27.21	+33 13.0	1.471	2.314	16.7	17.5
4 11	11 20.83	+32 50.2	1.516	2.295	19.5	17.6
4 21	11 17.19	+31 53.7	1.576	2.276	22.0	17.7

79898 1999 BD_{6} 3 15.4 340°.39 1°.1/14.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.05	+ 1 17.3	2.151	2.991	11.7	19.4
2 21	11 56.16	+ 2 26.8	2.074	2.990	8.5	19.1
3 2	11 50.60	+ 3 48.2	2.021	2.990	4.9	18.9
3 12	11 43.99	+ 5 15.5	1.998	2.989	1.4	18.7
3 22	11 37.06	+ 6 41.8	2.003	2.989	3.4	18.8
4 1	11 30.63	+ 7 59.9	2.038	2.989	7.1	19.0
4 11	11 25.43	+ 9 4.4	2.099	2.988	10.6	19.3
4 21	11 21.96	+ 9 51.9	2.182	2.988	13.5	19.5

245461 2005 ME 3 15.4 248°.92 3°.5/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 0.87	+ 9 52.4	2.329	3.182	10.5	20.5
2 21	11 56.70	+11 12.0	2.251	3.175	7.6	20.3
3 2	11 50.91	+12 36.8	2.200	3.167	4.8	20.1
3 12	11 44.07	+13 59.7	2.178	3.159	3.5	20.0
3 22	11 36.89	+15 14.1	2.186	3.151	5.4	20.1
4 1	11 30.17	+16 14.1	2.221	3.143	8.4	20.3
4 11	11 24.60	+16 56.3	2.282	3.134	11.3	20.5
4 21	11 20.70	+17 19.3	2.364	3.126	13.9	20.6

176686 2002 PE_{103} 3 15.4 169°.01 0°.9/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.12	− 4 0.9	1.821	2.645	14.2	20.5
2 21	11 59.41	− 3 16.6	1.743	2.647	10.7	20.3
3 2	11 52.64	− 2 14.6	1.688	2.649	6.6	20.1
3 12	11 44.53	− 0 59.9	1.660	2.651	2.2	19.8
3 22	11 36.03	+ 0 20.6	1.661	2.652	2.8	19.8
4 1	11 28.16	+ 1 38.8	1.690	2.653	7.2	20.1
4 11	11 21.83	+ 2 47.2	1.745	2.653	11.3	20.3
4 21	11 17.64	+ 3 40.8	1.822	2.654	14.8	20.5

29076 1972 TR_{8} 3 15.4 223°.38 4°.3/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.65	−11 28.2	2.166	2.941	13.9	18.5
2 21	12 1.91	−11 49.7	2.068	2.932	11.2	18.3
3 2	11 54.12	−11 54.1	1.993	2.923	8.1	18.1
3 12	11 44.93	−11 41.5	1.944	2.914	5.2	17.9
3 22	11 35.19	−11 14.1	1.924	2.903	4.4	17.8
4 1	11 25.89	−10 36.0	1.933	2.893	6.7	17.9
4 11	11 17.94	− 9 53.2	1.969	2.882	10.0	18.1
4 21	11 11.99	− 9 11.7	2.029	2.870	13.1	18.3

348933 2006 TR_{66} 3 15.4 213°.28 3°.5/20.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.77	−13 17.8	2.611	3.377	12.0	21.3
2 21	11 56.50	−12 58.1	2.514	3.373	9.6	21.1
3 2	11 50.75	−12 20.7	2.441	3.368	7.0	20.9
3 12	11 44.03	−11 27.2	2.395	3.364	4.5	20.7
3 22	11 36.99	−10 20.9	2.378	3.358	3.6	20.7
4 1	11 30.33	− 9 6.8	2.390	3.353	5.4	20.8
4 11	11 24.72	− 7 51.1	2.431	3.347	8.1	20.9
4 21	11 20.61	− 6 39.4	2.497	3.341	10.8	21.1

407662 2011 SR_{177} 3 15.4 49°.71 2°.5/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.51	+ 6 37.9	1.309	2.167	16.6	21.0
2 21	12 4.65	+ 6 54.4	1.249	2.175	12.1	20.7
3 2	11 55.91	+ 7 18.3	1.212	2.182	7.1	20.4
3 12	11 45.38	+ 7 42.6	1.200	2.190	2.7	20.2
3 22	11 34.47	+ 8 0.1	1.213	2.199	5.2	20.4
4 1	11 24.69	+ 8 4.9	1.253	2.207	10.2	20.7
4 11	11 17.23	+ 7 53.9	1.315	2.216	14.8	20.9
4 21	11 12.75	+ 7 26.7	1.396	2.225	18.6	21.2

152704 1998 SD_{4} 3 15.4 215°.40 2°.0/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.03	−11 6.3	0.851	1.696	24.5	20.4
2 21	12 3.63	− 9 25.2	0.778	1.691	19.1	20.1
3 2	11 56.15	− 6 47.4	0.722	1.684	12.3	19.7
3 12	11 45.62	− 3 19.7	0.687	1.676	4.6	19.2
3 22	11 33.84	+ 0 36.9	0.675	1.668	4.8	19.2
4 1	11 23.14	+ 4 30.7	0.687	1.658	12.9	19.5
4 11	11 15.53	+ 7 52.4	0.721	1.646	20.3	19.9
4 21	11 12.11	+10 25.9	0.770	1.634	26.4	20.2

145464 2005 SW_{133} 3 15.4 117°.59 9°.4/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.18	+25 3.9	1.832	2.690	12.6	19.2
2 21	11 59.57	+27 20.5	1.791	2.695	10.5	19.1
3 2	11 52.75	+29 27.4	1.777	2.700	9.4	19.0
3 12	11 44.56	+31 13.0	1.788	2.705	10.0	19.1
3 22	11 36.04	+32 28.9	1.825	2.710	11.8	19.2
4 1	11 28.30	+33 11.1	1.885	2.715	14.1	19.3
4 11	11 22.29	+33 20.2	1.964	2.719	16.4	19.5
4 21	11 18.58	+33 0.1	2.060	2.724	18.3	19.7

184629 2005 SX_{1} 3 15.4 211°.98 2°.1/13.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.04	+ 4 43.7	1.906	2.753	12.7	20.9
2 21	11 59.30	+ 5 42.8	1.829	2.750	9.2	20.6
3 2	11 52.56	+ 6 51.6	1.777	2.746	5.4	20.4
3 12	11 44.53	+ 8 3.5	1.752	2.743	2.2	20.2
3 22	11 36.09	+ 9 11.0	1.757	2.739	4.4	20.3
4 1	11 28.25	+10 7.4	1.789	2.735	8.4	20.5
4 11	11 21.88	+10 47.6	1.846	2.730	12.1	20.7
4 21	11 17.57	+11 9.5	1.925	2.725	15.3	20.9

357971 2006 BJ_{110} 3 15.4 13°.87 3°.3/13.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.89	+ 5 31.6	1.047	1.927	18.1	20.8
2 21	11 59.54	+ 6 23.0	0.993	1.930	13.2	20.5
3 2	11 53.11	+ 7 27.5	0.960	1.934	7.7	20.2
3 12	11 44.71	+ 8 34.4	0.949	1.939	3.3	20.0
3 22	11 35.84	+ 9 32.2	0.961	1.946	6.4	20.2
4 1	11 28.12	+10 10.9	0.997	1.954	11.8	20.5
4 11	11 22.87	+10 25.3	1.052	1.963	16.8	20.8
4 21	11 20.72	+10 14.8	1.125	1.973	20.9	21.1

437782 2015 CT_5 3 15.4 131°.30 2°.3/12.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.51	+ 5 39.5	2.029	2.875	12.0	21.6
2 21	11 58.73	+ 6 41.4	1.961	2.882	8.7	21.4
3 2	11 52.13	+ 7 51.2	1.919	2.888	5.1	21.1
3 12	11 44.41	+ 9 2.0	1.906	2.895	2.3	21.0
3 22	11 36.40	+10 7.2	1.921	2.901	4.4	21.1
4 1	11 29.02	+11 0.5	1.964	2.906	8.0	21.3
4 11	11 23.04	+11 37.9	2.034	2.912	11.4	21.6
4 21	11 18.97	+11 57.8	2.124	2.917	14.3	21.8

394352 2007 BN_{16} 3 15.4 65°.67 5°.1/12.0 18

2 11	12 10.00	+10 39.4	1.218	2.087	16.9	20.0
2 21	12 4.42	+11 32.8	1.166	2.095	12.4	19.8
3 2	11 55.83	+12 30.5	1.135	2.104	7.7	19.5
3 12	11 45.39	+13 21.8	1.129	2.113	5.1	19.4
3 22	11 34.59	+13 57.1	1.148	2.122	7.7	19.6
4 1	11 25.04	+14 9.8	1.191	2.131	12.2	19.9
4 11	11 17.96	+13 58.0	1.256	2.141	16.5	20.1
4 21	11 13.98	+13 23.7	1.338	2.150	20.1	20.4

1248 Jugurtha 3 15.4 104°.14 5°.1/10.3 18 A

2 11	12 5.05	+14 0.8	1.869	2.728	12.4	14.2
2 21	12 0.04	+15 7.7	1.807	2.730	9.2	14.0
3 2	11 52.97	+16 15.2	1.770	2.731	6.2	13.8
3 12	11 44.63	+17 15.2	1.759	2.733	5.2	13.7
3 22	11 35.98	+18 0.4	1.777	2.735	7.2	13.9
4 1	11 28.05	+18 25.9	1.821	2.736	10.3	14.0
4 11	11 21.72	+18 29.7	1.888	2.738	13.4	14.2
4 21	11 17.52	+18 12.8	1.976	2.739	16.1	14.4

353176 2009 MA_7 3 15.4 340°.32 5°.5/21.6 17

2 11	11 58.11	−16 44.6	1.922	2.693	15.5	20.2
2 21	11 55.10	−16 37.4	1.827	2.682	12.9	20.0
3 2	11 50.17	−16 4.5	1.753	2.673	9.8	19.8
3 12	11 43.94	−15 6.5	1.704	2.664	6.9	19.6
3 22	11 37.24	−13 46.9	1.680	2.655	5.5	19.5
4 1	11 31.03	−12 12.7	1.683	2.647	7.1	19.6
4 11	11 26.18	−10 33.0	1.712	2.640	10.2	19.7
4 21	11 23.29	− 8 56.7	1.765	2.634	13.5	19.9

284982 2010 GS_{124} 3 15.4 165°.84 4°.3/10.1 17

2 11	12 2.70	+13 55.5	2.377	3.230	10.3	20.7
2 21	11 57.95	+14 59.4	2.312	3.232	7.6	20.5
3 2	11 51.60	+16 3.8	2.272	3.233	5.2	20.4
3 12	11 44.27	+17 2.3	2.262	3.234	4.3	20.3
3 22	11 36.68	+17 49.2	2.280	3.235	6.0	20.4
4 1	11 29.62	+18 20.5	2.326	3.236	8.6	20.6
4 11	11 23.79	+18 34.1	2.396	3.237	11.2	20.7
4 21	11 19.64	+18 30.1	2.488	3.237	13.6	20.9

289935 2005 NR_{35} 3 15.4 168°.75 0°.1/15.3 17

2 11	12 1.74	+ 0 20.4	2.959	3.779	9.4	22.4
2 21	11 56.96	+ 0 51.4	2.877	3.782	6.9	22.2
3 2	11 50.91	+ 1 30.3	2.822	3.786	4.1	22.0
3 12	11 44.08	+ 2 13.8	2.796	3.788	1.0	21.8
3 22	11 37.04	+ 2 58.3	2.801	3.791	2.1	21.9
4 1	11 30.38	+ 3 39.8	2.837	3.793	5.1	22.1
4 11	11 24.65	+ 4 14.9	2.901	3.794	7.8	22.3
4 21	11 20.24	+ 4 41.1	2.989	3.795	10.2	22.4

87005 2000 JJ_{52} 3 15.4 185°.77 2°.7/12.7 18

2 11	12 9.66	+ 8 2.0	2.182	3.018	11.7	20.1
2 21	12 3.18	+ 8 50.5	2.104	3.019	8.5	19.9
3 2	11 54.76	+ 9 44.2	2.052	3.018	5.1	19.7
3 12	11 45.10	+10 37.1	2.030	3.017	2.7	19.5
3 22	11 35.09	+11 23.0	2.038	3.014	4.7	19.6
4 1	11 25.68	+11 57.0	2.076	3.010	8.1	19.8
4 11	11 17.72	+12 15.9	2.140	3.006	11.4	20.0
4 21	11 11.76	+12 18.8	2.226	3.000	14.3	20.2

194954 2002 AS_{165} 3 15.4 135°.43 1°.5/16.8 18

2 11	12 7.28	− 4 52.4	1.746	2.563	15.0	20.9
2 21	12 1.75	− 4 24.7	1.675	2.575	11.4	20.7
3 2	11 54.02	− 3 39.2	1.627	2.585	7.1	20.4
3 12	11 44.91	− 2 40.3	1.606	2.595	2.7	20.2
3 22	11 35.47	− 1 34.2	1.614	2.605	2.9	20.2
4 1	11 26.78	− 0 28.8	1.649	2.614	7.2	20.5
4 11	11 19.81	+ 0 28.9	1.711	2.622	11.3	20.8
4 21	11 15.13	+ 1 13.9	1.795	2.630	14.8	21.0

217918 2001 SY_{315} 3 15.4 143°.72 0°.1/15.5 18

2 11	12 8.70	+ 0 42.9	2.170	2.991	12.3	20.6
2 21	12 2.39	+ 0 53.4	2.096	3.001	9.1	20.4
3 2	11 54.24	+ 1 13.2	2.048	3.011	5.4	20.2
3 12	11 44.96	+ 1 38.6	2.028	3.019	1.4	19.9
3 22	11 35.39	+ 2 5.4	2.038	3.028	2.6	20.0
4 1	11 26.47	+ 2 29.2	2.078	3.036	6.5	20.3
4 11	11 18.98	+ 2 46.1	2.145	3.043	10.0	20.5
4 21	11 13.44	+ 2 53.6	2.236	3.049	13.0	20.7

351468 2005 NY_{122} 3 15.4 193°.17 5°.4/22.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.29	−20 27.8	3.187	3.888	11.3	21.7
2 21	11 59.64	−20 59.7	3.086	3.885	9.6	21.5
3 2	11 52.57	−21 16.0	3.007	3.883	7.8	21.4
3 12	11 44.53	−21 15.7	2.956	3.880	6.2	21.3
3 22	11 36.14	−20 59.6	2.932	3.876	5.4	21.2
4 1	11 28.05	−20 30.0	2.938	3.872	6.0	21.3
4 11	11 20.89	−19 51.0	2.972	3.867	7.6	21.3
4 21	11 15.13	−19 7.2	3.032	3.862	9.5	21.5

497001 2002 UC_{43} 3 15.4 169°.31 0°.8/16.5 17

2 11	12 2.50	− 3 27.9	2.667	3.476	10.6	22.5
2 21	11 57.65	− 2 59.1	2.583	3.480	8.0	22.3
3 2	11 51.38	− 2 18.9	2.525	3.483	4.9	22.1
3 12	11 44.22	− 1 30.7	2.496	3.485	1.7	21.9
3 22	11 36.81	− 0 38.4	2.497	3.488	2.1	21.9
4 1	11 29.81	+ 0 13.3	2.528	3.489	5.3	22.2
4 11	11 23.86	+ 1 0.0	2.587	3.491	8.3	22.4
4 21	11 19.39	+ 1 38.3	2.671	3.492	10.9	22.5

504618 2008 UF_{314} 3 15.4 195°.33 3°.0/19.4 17

2 11	12 3.46	−11 34.2	2.793	3.560	11.3	22.6
2 21	11 58.38	−11 20.1	2.695	3.557	9.0	22.4
3 2	11 51.84	−10 50.5	2.622	3.553	6.4	22.2
3 12	11 44.36	−10 7.1	2.577	3.549	3.9	22.1
3 22	11 36.55	− 9 12.9	2.561	3.544	3.1	22.0
4 1	11 29.12	− 8 12.3	2.576	3.538	5.1	22.1
4 11	11 22.69	− 7 10.5	2.620	3.531	7.8	22.3
4 21	11 17.73	− 6 12.3	2.689	3.524	10.4	22.4

384108 2008 WV_{91} 3 15.4 149°.33 3°.1/18.9 17

2 11	12 3.57	− 9 46.1	2.415	3.200	12.4	21.1
2 21	11 58.61	− 9 46.6	2.330	3.204	9.7	20.9
3 2	11 52.02	− 9 31.6	2.269	3.208	6.8	20.7
3 12	11 44.41	− 9 2.8	2.235	3.211	4.0	20.5
3 22	11 36.47	− 8 23.4	2.230	3.215	3.3	20.5
4 1	11 29.01	− 7 37.7	2.255	3.218	5.6	20.7
4 11	11 22.73	− 6 51.2	2.306	3.221	8.6	20.8
4 21	11 18.11	− 6 8.6	2.383	3.224	11.4	21.0

208709 2002 JD_{61} 3 15.4 255°.91 0°.4/15.1 17

2 11	12 5.76	+ 0 3.0	1.778	2.613	14.0	20.5
2 21	12 0.88	+ 0 42.4	1.683	2.596	10.4	20.3
3 2	11 53.70	+ 1 36.6	1.612	2.578	6.2	20.0
3 12	11 44.90	+ 2 40.8	1.568	2.560	1.5	19.6
3 22	11 35.46	+ 3 48.0	1.553	2.542	3.4	19.7
4 1	11 26.51	+ 4 50.2	1.565	2.523	8.2	20.0
4 11	11 19.11	+ 5 40.7	1.603	2.504	12.6	20.2
4 21	11 14.00	+ 6 15.0	1.662	2.484	16.4	20.4

297657 2001 TS_{258} 3 15.4 231°.40 4°.4/11.7 17

2 11	12 9.89	+10 58.1	1.718	2.570	13.6	22.0
2 21	12 3.94	+11 55.5	1.637	2.558	10.1	21.8
3 2	11 55.49	+12 57.5	1.581	2.546	6.4	21.5
3 12	11 45.36	+13 55.9	1.552	2.534	4.4	21.4
3 22	11 34.63	+14 42.3	1.551	2.520	6.7	21.5
4 1	11 24.58	+15 10.4	1.577	2.506	10.6	21.7
4 11	11 16.32	+15 16.9	1.627	2.491	14.5	21.9
4 21	11 10.58	+15 2.0	1.697	2.475	17.8	22.0

11317 Hitoshi 3 15.4 233°.85 0°.0/15.5 18

2 11	12 1.87	− 0 11.5	2.781	3.601	9.9	19.2
2 21	11 57.21	+ 0 17.2	2.686	3.591	7.4	19.1
3 2	11 51.16	+ 0 54.9	2.616	3.580	4.4	18.8
3 12	11 44.18	+ 1 38.4	2.576	3.568	1.1	18.6
3 22	11 36.90	+ 2 23.9	2.567	3.556	2.2	18.7
4 1	11 29.95	+ 3 7.0	2.587	3.544	5.4	18.9
4 11	11 23.96	+ 3 44.0	2.635	3.532	8.4	19.0
4 21	11 19.38	+ 4 11.8	2.708	3.519	11.0	19.2

286249 2001 UP_{216} 3 15.4 152°.41 0°.8/14.6 16

2 11	12 5.19	+ 1 43.1	2.086	2.919	12.3	22.3
2 21	11 59.93	+ 2 26.3	2.013	2.925	9.0	22.1
3 2	11 52.84	+ 3 20.0	1.965	2.932	5.2	21.8
3 12	11 44.62	+ 4 18.7	1.945	2.938	1.3	21.6
3 22	11 36.10	+ 5 16.5	1.955	2.943	3.2	21.7
4 1	11 28.19	+ 6 7.6	1.994	2.948	7.1	22.0
4 11	11 21.68	+ 6 47.1	2.060	2.952	10.6	22.2
4 21	11 17.07	+ 7 12.6	2.148	2.956	13.6	22.4

115567 2003 UY_{82} 3 15.4 204°.96 3°.3/11.8 18

2 11	12 6.05	+ 8 16.4	2.059	2.905	11.9	20.6
2 21	12 0.70	+ 9 29.9	1.979	2.900	8.7	20.4
3 2	11 53.39	+10 50.2	1.926	2.893	5.3	20.2
3 12	11 44.78	+12 9.9	1.902	2.887	3.3	20.0
3 22	11 35.76	+13 21.5	1.908	2.879	5.4	20.1
4 1	11 27.30	+14 18.5	1.941	2.871	8.9	20.3
4 11	11 20.25	+14 56.8	2.000	2.862	12.3	20.5
4 21	11 15.20	+15 15.2	2.081	2.852	15.2	20.7

141388 2002 AQ_{85} 3 15.4 52°.79 4°.0/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 0.31	+10 46.8	2.153	3.011	11.0	19.6
2 21	11 56.31	+12 12.5	2.095	3.020	8.0	19.5
3 2	11 50.68	+13 41.4	2.064	3.030	5.1	19.3
3 12	11 44.06	+15 6.2	2.061	3.040	4.0	19.3
3 22	11 37.20	+16 19.6	2.087	3.049	5.9	19.4
4 1	11 30.93	+17 16.2	2.141	3.059	8.8	19.6
4 11	11 25.93	+17 53.0	2.219	3.069	11.7	19.8
4 21	11 22.65	+18 9.8	2.318	3.080	14.1	20.0

212060 2005 EC_{32} 3 15.4 299°.31 0°.1/15.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.05	− 0 17.6	1.474	2.320	15.8	20.6
2 21	12 0.78	+ 0 1.9	1.383	2.300	11.9	20.3
3 2	11 53.84	+ 0 37.6	1.314	2.281	7.2	20.0
3 12	11 44.98	+ 1 25.0	1.270	2.262	1.9	19.6
3 22	11 35.32	+ 2 17.1	1.252	2.243	3.6	19.7
4 1	11 26.21	+ 3 5.7	1.260	2.224	9.0	19.9
4 11	11 18.94	+ 3 43.3	1.292	2.205	14.0	20.2
4 21	11 14.35	+ 4 4.8	1.343	2.187	18.3	20.4

504921 2011 BO_{75} 3 15.4 278°.97 4°.7/19.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.91	−11 34.7	1.969	2.752	14.8	21.3
2 21	12 0.93	−11 59.0	1.863	2.732	12.0	21.1
3 2	11 53.74	−12 4.9	1.780	2.712	8.8	20.8
3 12	11 44.94	−11 51.9	1.722	2.692	5.7	20.6
3 22	11 35.42	−11 22.1	1.691	2.671	4.9	20.5
4 1	11 26.27	−10 39.8	1.688	2.650	7.3	20.6
4 11	11 18.51	− 9 51.8	1.711	2.629	10.9	20.7
4 21	11 12.90	− 9 5.0	1.758	2.608	14.4	20.9

467860 2011 AF_{5} 3 15.4 313°.75 7°.6/20.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.04	−14 32.3	1.581	2.363	17.9	20.5
2 21	12 2.32	−15 40.3	1.483	2.345	15.0	20.2
3 2	11 54.83	−16 27.3	1.406	2.327	11.7	20.0
3 12	11 45.27	−16 50.1	1.353	2.309	8.7	19.8
3 22	11 34.73	−16 47.8	1.323	2.292	7.7	19.7
4 1	11 24.62	−16 23.8	1.320	2.276	9.6	19.7
4 11	11 16.28	−15 45.5	1.340	2.260	13.1	19.9
4 21	11 10.68	−15 1.8	1.381	2.244	16.8	20.1

32466 2000 SN_{153} 3 15.4 302°.63 7°.5/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.03	+19 39.6	1.651	2.506	13.9	17.1
2 21	12 5.07	+20 26.5	1.564	2.480	10.9	16.8
3 2	11 56.32	+21 8.7	1.501	2.453	8.3	16.6
3 12	11 45.62	+21 36.5	1.464	2.426	7.5	16.5
3 22	11 34.17	+21 42.0	1.454	2.400	9.6	16.5
4 1	11 23.41	+21 20.4	1.468	2.374	13.0	16.7
4 11	11 14.60	+20 31.4	1.505	2.348	16.6	16.8
4 21	11 8.56	+19 18.4	1.561	2.322	19.8	17.0

387823 2004 GU_{7} 3 15.4 320°.77 5°.1/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.34	+16 0.8	1.955	2.808	12.2	20.6
2 21	12 2.49	+16 26.6	1.877	2.795	9.2	20.4
3 2	11 54.48	+16 49.8	1.824	2.783	6.3	20.2
3 12	11 45.08	+17 3.9	1.798	2.771	5.1	20.1
3 22	11 35.27	+17 3.7	1.799	2.760	6.8	20.2
4 1	11 26.13	+16 45.8	1.829	2.749	10.0	20.4
4 11	11 18.60	+16 9.6	1.882	2.738	13.2	20.5
4 21	11 13.28	+15 16.6	1.956	2.728	16.0	20.7

43129 1999 XY_{68} 3 15.4 217°.45 2°.3/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.07	− 7 34.6	2.193	2.993	12.9	19.4
2 21	11 58.44	− 7 18.4	2.103	2.990	10.0	19.2
3 2	11 52.02	− 6 45.9	2.037	2.986	6.7	19.0
3 12	11 44.45	− 5 59.5	1.998	2.982	3.3	18.8
3 22	11 36.48	− 5 3.6	1.988	2.977	2.8	18.8
4 1	11 28.98	− 4 3.6	2.007	2.973	6.0	19.0
4 11	11 22.74	− 3 6.1	2.053	2.968	9.5	19.2
4 21	11 18.31	− 2 15.9	2.123	2.963	12.6	19.3

100616 1997 TN_{2} 3 15.4 196°.05 2°.1/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.25	+ 7 13.5	2.240	3.074	11.5	21.0
2 21	12 2.86	+ 7 39.1	2.158	3.072	8.4	20.8
3 2	11 54.59	+ 8 9.4	2.102	3.068	5.0	20.6
3 12	11 45.11	+ 8 39.5	2.075	3.065	2.1	20.4
3 22	11 35.28	+ 9 4.6	2.079	3.060	4.0	20.5
4 1	11 26.01	+ 9 20.6	2.112	3.055	7.5	20.7
4 11	11 18.13	+ 9 24.7	2.173	3.049	10.8	20.9
4 21	11 12.20	+ 9 15.9	2.256	3.043	13.7	21.1

286212 2001 UO_{97} 3 15.4 81°.80 4°.7/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.87	+15 32.3	2.228	3.080	10.9	20.5
2 21	11 59.59	+16 22.6	2.169	3.087	8.1	20.3
3 2	11 52.60	+17 11.5	2.135	3.094	5.6	20.2
3 12	11 44.58	+17 52.4	2.130	3.101	4.8	20.1
3 22	11 36.35	+18 20.2	2.153	3.107	6.4	20.2
4 1	11 28.77	+18 31.5	2.204	3.114	9.0	20.4
4 11	11 22.56	+18 24.9	2.279	3.121	11.7	20.6
4 21	11 18.19	+18 1.5	2.375	3.127	14.0	20.8

65163 2002 CJ_{161} 3 15.4 222°.56 5°.2/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.97	+15 11.8	2.210	3.064	10.9	19.7
2 21	11 59.12	+16 40.9	2.137	3.056	8.2	19.5
3 2	11 52.44	+18 11.1	2.090	3.047	5.9	19.4
3 12	11 44.57	+19 34.2	2.073	3.038	5.4	19.3
3 22	11 36.31	+20 43.1	2.084	3.029	7.2	19.4
4 1	11 28.57	+21 32.3	2.122	3.019	10.0	19.6
4 11	11 22.14	+21 59.2	2.185	3.008	12.8	19.7
4 21	11 17.58	+22 4.1	2.267	2.997	15.2	19.9

376358 2011 JO_{5} 3 15.4 148°.51 2°.6/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.82	+ 7 37.1	2.082	2.929	11.8	20.5
2 21	11 59.68	+ 8 23.7	2.012	2.933	8.5	20.3
3 2	11 52.72	+ 9 15.8	1.968	2.936	5.1	20.1
3 12	11 44.63	+10 7.2	1.952	2.939	2.6	20.0
3 22	11 36.24	+10 52.1	1.964	2.942	4.6	20.1
4 1	11 28.46	+11 25.4	2.005	2.945	8.0	20.3
4 11	11 22.09	+11 43.8	2.072	2.948	11.3	20.5
4 21	11 17.63	+11 46.3	2.160	2.950	14.1	20.7

279316 2009 WA_{262} 3 15.4 250°.66 4°.3/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.48	+12 5.6	2.048	2.904	11.6	20.7
2 21	11 58.83	+13 14.8	1.975	2.898	8.5	20.5
3 2	11 52.29	+14 26.9	1.928	2.892	5.6	20.3
3 12	11 44.53	+15 34.6	1.908	2.886	4.4	20.2
3 22	11 36.40	+16 30.7	1.917	2.880	6.3	20.3
4 1	11 28.85	+17 9.7	1.954	2.873	9.5	20.5
4 11	11 22.68	+17 28.9	2.014	2.867	12.6	20.7
4 21	11 18.46	+17 28.0	2.095	2.860	15.3	20.8

342973 2009 BH_{24} 3 15.4 67°.81 2°.6/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.25	+ 7 36.7	2.075	2.925	11.7	20.7
2 21	11 58.48	+ 8 25.8	2.015	2.936	8.4	20.5
3 2	11 51.97	+ 9 20.0	1.980	2.948	5.0	20.4
3 12	11 44.42	+10 13.2	1.973	2.960	2.6	20.2
3 22	11 36.66	+10 59.5	1.994	2.972	4.5	20.4
4 1	11 29.55	+11 33.8	2.044	2.984	7.9	20.6
4 11	11 23.82	+11 53.3	2.119	2.996	11.1	20.8
4 21	11 19.94	+11 56.9	2.216	3.008	13.8	21.0

497 Iva 3 15.4 152°.48 0°.4/14.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.52	+ 1 21.2	2.801	3.620	9.9	15.7
2 21	11 59.02	+ 1 51.8	2.725	3.631	7.2	15.6
3 2	11 52.16	+ 2 29.9	2.676	3.640	4.2	15.4
3 12	11 44.47	+ 3 11.9	2.657	3.649	1.0	15.1
3 22	11 36.58	+ 3 53.9	2.669	3.658	2.3	15.2
4 1	11 29.14	+ 4 32.0	2.712	3.665	5.4	15.5
4 11	11 22.75	+ 5 2.7	2.783	3.672	8.3	15.7
4 21	11 17.82	+ 5 24.0	2.878	3.679	10.7	15.9

369599 2011 CW_{34} 3 15.4 103°.56 7°.5/21.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.78	−17 7.8	1.930	2.675	16.4	20.4
2 21	12 5.23	−18 22.3	1.845	2.679	13.8	20.3
3 2	11 56.26	−19 16.5	1.783	2.682	10.9	20.1
3 12	11 45.62	−19 47.4	1.745	2.686	8.5	19.9
3 22	11 34.34	−19 54.6	1.735	2.690	7.5	19.9
4 1	11 23.63	−19 41.1	1.752	2.693	8.8	20.0
4 11	11 14.61	−19 13.1	1.794	2.697	11.3	20.1
4 21	11 8.01	−18 38.1	1.860	2.701	14.1	20.3

89915 2002 ED_{32} 3 15.4 177°.54 0°.6/14.8 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.10	+ 1 49.3	2.287	3.116	11.5	20.3
2 21	11 59.78	+ 2 21.5	2.207	3.117	8.4	20.1
3 2	11 52.76	+ 3 2.8	2.153	3.118	4.9	19.9
3 12	11 44.65	+ 3 48.8	2.127	3.119	1.2	19.6
3 22	11 36.24	+ 4 34.7	2.131	3.119	2.9	19.7
4 1	11 28.34	+ 5 15.3	2.165	3.119	6.6	19.9
4 11	11 21.70	+ 5 46.5	2.226	3.119	9.9	20.2
4 21	11 16.84	+ 6 5.9	2.310	3.118	12.8	20.3

502890 2015 DX_{220} 3 15.4 186°.90 4°.1/20.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.90	−13 7.8	2.234	3.008	13.5	20.8
2 21	11 57.57	−13 1.7	2.145	3.008	10.9	20.6
3 2	11 51.52	−12 36.2	2.079	3.008	7.9	20.4
3 12	11 44.34	−11 52.6	2.039	3.008	5.1	20.3
3 22	11 36.80	−10 54.3	2.027	3.008	4.1	20.2
4 1	11 29.74	− 9 47.0	2.044	3.008	6.1	20.3
4 11	11 23.91	− 8 37.3	2.088	3.007	9.1	20.5
4 21	11 19.85	− 7 31.5	2.156	3.007	12.0	20.7

498791 2008 UM_{181} 3 15.4 155°.04 1°.4/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.12	+ 4 5.5	2.191	3.030	11.6	22.2
2 21	11 59.11	+ 4 45.0	2.117	3.033	8.4	22.0
3 2	11 52.37	+ 5 32.4	2.068	3.036	4.9	21.8
3 12	11 44.55	+ 6 22.5	2.048	3.039	1.6	21.6
3 22	11 36.44	+ 7 10.0	2.057	3.042	3.5	21.7
4 1	11 28.89	+ 7 49.6	2.095	3.045	7.1	21.9
4 11	11 22.64	+ 8 17.4	2.160	3.047	10.4	22.2
4 21	11 18.20	+ 8 31.6	2.247	3.049	13.3	22.4

224979 2007 EW_{70} 3 15.4 181°.39 2°.4/13.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 6.29	+ 7 3.7	2.033	2.877	12.1	20.8
2 21	12 0.83	+ 7 41.3	1.959	2.877	8.8	20.6
3 2	11 53.45	+ 8 24.6	1.910	2.878	5.2	20.3
3 12	11 44.84	+ 9 8.1	1.889	2.878	2.4	20.1
3 22	11 35.89	+ 9 45.8	1.897	2.877	4.4	20.3
4 1	11 27.57	+10 12.9	1.934	2.877	8.0	20.5
4 11	11 20.71	+10 25.9	1.996	2.876	11.5	20.7
4 21	11 15.85	+10 23.9	2.080	2.875	14.4	20.9

105993 2000 SZ_{277} 3 15.4 234°.63 4°.9/22.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.71	−19 56.1	2.890	3.610	12.0	20.2
2 21	11 56.45	−19 40.4	2.781	3.598	10.1	20.1
3 2	11 50.76	−19 5.0	2.693	3.586	7.9	19.9
3 12	11 44.14	−18 10.2	2.632	3.573	5.9	19.7
3 22	11 37.18	−16 58.4	2.599	3.561	4.9	19.6
4 1	11 30.55	−15 33.8	2.595	3.547	5.7	19.7
4 11	11 24.86	−14 2.7	2.620	3.534	7.8	19.8
4 21	11 20.60	−12 31.1	2.672	3.520	10.1	19.9

54565 2000 QK_{149} 3 15.4 267°.35 0°.1/15.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.32	+ 1 0.1	2.342	3.167	11.4	19.2
2 21	11 59.98	+ 1 4.6	2.252	3.159	8.5	18.9
3 2	11 52.91	+ 1 17.4	2.187	3.151	5.1	18.7
3 12	11 44.71	+ 1 35.4	2.151	3.142	1.3	18.4
3 22	11 36.12	+ 1 55.2	2.144	3.134	2.5	18.5
4 1	11 27.99	+ 2 12.7	2.167	3.126	6.2	18.7
4 11	11 21.06	+ 2 24.3	2.217	3.117	9.6	18.9
4 21	11 15.89	+ 2 27.5	2.290	3.109	12.5	19.1

402535 2006 FC_{24} 3 15.4 84°.50 0°.4/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.90	− 0 38.4	1.460	2.305	16.0	21.3
2 21	12 0.38	+ 0 12.4	1.394	2.312	11.8	21.1
3 2	11 53.40	+ 1 20.6	1.350	2.318	6.9	20.8
3 12	11 44.86	+ 2 39.2	1.332	2.324	1.7	20.5
3 22	11 35.90	+ 3 59.0	1.340	2.330	3.7	20.6
4 1	11 27.78	+ 5 10.5	1.375	2.336	8.8	20.9
4 11	11 21.59	+ 6 6.3	1.435	2.342	13.3	21.2
4 21	11 17.92	+ 6 42.4	1.514	2.348	17.1	21.5

337898 2001 XC_{56} 3 15.4 112°.54 5°.2/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.32	+20 33.0	2.835	3.680	9.1	21.5
2 21	11 58.85	+21 41.7	2.794	3.701	7.0	21.4
3 2	11 52.02	+22 45.5	2.781	3.722	5.5	21.3
3 12	11 44.43	+23 38.8	2.796	3.742	5.4	21.3
3 22	11 36.74	+24 17.3	2.840	3.762	6.6	21.4
4 1	11 29.61	+24 38.5	2.912	3.781	8.5	21.6
4 11	11 23.62	+24 42.0	3.009	3.800	10.4	21.8
4 21	11 19.15	+24 29.0	3.125	3.819	12.1	21.9

246073 2006 WC_{62} 3 15.4 180°.76 2°.5/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.72	+ 8 10.7	2.879	3.722	9.0	20.9
2 21	11 56.31	+ 9 21.2	2.804	3.723	6.5	20.7
3 2	11 50.60	+10 36.2	2.756	3.723	3.9	20.5
3 12	11 44.09	+11 50.5	2.739	3.723	2.5	20.4
3 22	11 37.35	+12 59.0	2.752	3.723	4.1	20.5
4 1	11 30.98	+13 57.1	2.795	3.722	6.7	20.7
4 11	11 25.56	+14 41.8	2.865	3.721	9.2	20.9
4 21	11 21.48	+15 11.6	2.958	3.719	11.4	21.0

9234 Matsumototaku 3 15.4 258°.77 1°.7/14.1 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.83	+ 2 54.1	1.444	2.296	15.7	18.0
2 21	12 2.05	+ 3 39.9	1.364	2.286	11.6	17.7
3 2	11 54.57	+ 4 40.1	1.306	2.275	6.8	17.4
3 12	11 45.21	+ 5 47.7	1.273	2.265	2.1	17.0
3 22	11 35.17	+ 6 53.6	1.267	2.254	4.7	17.2
4 1	11 25.85	+ 7 48.6	1.288	2.243	9.9	17.4
4 11	11 18.49	+ 8 25.9	1.332	2.232	14.7	17.7
4 21	11 13.86	+ 8 42.5	1.395	2.221	18.7	17.9

81691 2000 JD_{14} 3 15.4 208°.39 4°.9/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.59	+16 28.3	2.450	3.294	10.3	20.0
2 21	12 1.59	+17 29.9	2.374	3.287	7.8	19.8
3 2	11 53.83	+18 30.3	2.325	3.279	5.6	19.7
3 12	11 44.96	+19 23.0	2.305	3.270	5.0	19.6
3 22	11 35.74	+20 2.5	2.315	3.261	6.6	19.7
4 1	11 27.04	+20 24.7	2.353	3.250	9.1	19.8
4 11	11 19.62	+20 28.1	2.416	3.239	11.7	20.0
4 21	11 14.00	+20 13.3	2.500	3.227	14.0	20.1

35029 1981 EM_{22} 3 15.4 41°.45 0°.6/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.57	− 1 13.5	1.183	2.036	18.4	19.5
2 21	12 1.93	− 0 59.7	1.129	2.049	13.7	19.2
3 2	11 54.42	− 0 27.3	1.096	2.063	8.2	18.9
3 12	11 45.13	+ 0 17.5	1.087	2.078	2.4	18.6
3 22	11 35.49	+ 1 6.5	1.102	2.094	3.7	18.8
4 1	11 27.00	+ 1 50.7	1.142	2.109	9.2	19.1
4 11	11 20.87	+ 2 22.7	1.205	2.126	14.2	19.4
4 21	11 17.69	+ 2 38.4	1.287	2.143	18.2	19.7

55074 2001 QH_{93} 3 15.4 110°.34 0°.5/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 6.22	+ 2 49.7	2.358	3.186	11.2	19.2
2 21	12 0.51	+ 2 57.2	2.284	3.193	8.2	19.0
3 2	11 53.14	+ 3 11.4	2.235	3.200	4.8	18.8
3 12	11 44.76	+ 3 29.1	2.214	3.207	1.2	18.5
3 22	11 36.13	+ 3 46.5	2.224	3.213	2.7	18.7
4 1	11 28.05	+ 3 59.9	2.264	3.219	6.2	18.9
4 11	11 21.25	+ 4 6.3	2.330	3.226	9.4	19.1
4 21	11 16.18	+ 4 3.9	2.421	3.232	12.2	19.3

522673 2016 GW_{266} 3 15.4 194°.31 1°.6/17.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.59	− 5 41.6	2.344	3.148	12.1	22.2
2 21	11 58.71	− 5 16.6	2.255	3.146	9.2	22.0
3 2	11 52.16	− 4 37.1	2.191	3.144	5.9	21.8
3 12	11 44.54	− 3 46.2	2.155	3.141	2.5	21.5
3 22	11 36.56	− 2 48.3	2.148	3.138	2.4	21.5
4 1	11 29.04	− 1 48.8	2.171	3.135	5.8	21.7
4 11	11 22.71	− 0 53.4	2.221	3.131	9.2	21.9
4 21	11 18.07	− 0 6.6	2.296	3.126	12.1	22.1

143675 2003 SJ_{214} 3 15.4 176°.04 0°.8/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.06	+ 1 43.1	2.255	3.088	11.5	20.8
2 21	11 58.33	+ 2 25.3	2.177	3.090	8.4	20.6
3 2	11 51.93	+ 3 17.3	2.124	3.090	4.9	20.4
3 12	11 44.47	+ 4 14.4	2.099	3.091	1.3	20.1
3 22	11 36.71	+ 5 11.0	2.104	3.091	3.0	20.3
4 1	11 29.45	+ 6 1.6	2.138	3.091	6.6	20.5
4 11	11 23.43	+ 6 41.7	2.198	3.091	10.0	20.7
4 21	11 19.14	+ 7 8.8	2.282	3.091	12.9	20.9

17362 1978 UT_{7} 3 15.5 246°.67 1°.6/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.49	− 6 38.0	2.887	3.681	10.3	19.7
2 21	11 56.99	− 6 10.8	2.778	3.663	7.9	19.5
3 2	11 51.09	− 5 30.6	2.695	3.644	5.2	19.3
3 12	11 44.27	− 4 39.8	2.640	3.625	2.4	19.1
3 22	11 37.08	− 3 41.8	2.615	3.605	2.1	19.0
4 1	11 30.17	− 2 41.2	2.621	3.585	5.0	19.2
4 11	11 24.15	− 1 42.6	2.656	3.564	7.9	19.3
4 21	11 19.49	− 0 50.4	2.716	3.543	10.6	19.5

250300 2003 QK_{29} 3 15.5 269°.46 1°.1/16.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.14	− 4 32.5	1.726	2.549	14.9	21.1
2 21	12 0.64	− 3 52.6	1.621	2.524	11.4	20.9
3 2	11 53.73	− 2 51.8	1.538	2.498	7.2	20.5
3 12	11 45.04	− 1 33.8	1.481	2.471	2.5	20.2
3 22	11 35.54	− 0 5.4	1.453	2.444	3.1	20.2
4 1	11 26.41	+ 1 24.2	1.452	2.416	8.1	20.4
4 11	11 18.83	+ 2 45.6	1.477	2.388	12.8	20.6
4 21	11 13.60	+ 3 51.7	1.524	2.359	17.0	20.8

427538 2002 QK_{135} 3 15.5 273°.45 1°.4/14.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.94	+ 5 32.9	2.092	2.929	12.1	21.3
2 21	12 2.14	+ 5 41.8	2.001	2.916	8.9	21.0
3 2	11 54.31	+ 5 56.5	1.936	2.903	5.2	20.8
3 12	11 45.13	+ 6 12.7	1.898	2.890	1.7	20.5
3 22	11 35.47	+ 6 26.0	1.891	2.876	3.6	20.6
4 1	11 26.32	+ 6 32.5	1.912	2.863	7.5	20.8
4 11	11 18.57	+ 6 28.9	1.959	2.850	11.2	21.0
4 21	11 12.86	+ 6 13.8	2.029	2.836	14.3	21.2

463972 2014 WB_{5} 3 15.5 161°.79 4°.3/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.52	+14 48.1	2.475	3.316	10.3	21.6
2 21	12 2.13	+15 45.3	2.411	3.325	7.7	21.5
3 2	11 54.07	+16 41.7	2.375	3.332	5.2	21.3
3 12	11 45.02	+17 31.1	2.369	3.339	4.3	21.3
3 22	11 35.75	+18 8.5	2.392	3.345	5.9	21.4
4 1	11 27.09	+18 30.1	2.444	3.350	8.5	21.5
4 11	11 19.74	+18 34.7	2.523	3.355	11.0	21.7
4 21	11 14.19	+18 22.9	2.623	3.358	13.3	21.9

12035 Ruggieri 3 15.5 8°.03 0°.6/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.90	− 1 26.6	1.404	2.249	16.5	18.3
2 21	12 0.55	− 1 8.0	1.333	2.249	12.3	18.0
3 2	11 53.61	− 0 32.2	1.284	2.250	7.5	17.7
3 12	11 44.97	+ 0 15.7	1.259	2.251	2.2	17.4
3 22	11 35.81	+ 1 8.5	1.261	2.253	3.4	17.5
4 1	11 27.48	+ 1 57.9	1.289	2.255	8.6	17.8
4 11	11 21.12	+ 2 36.4	1.340	2.257	13.3	18.1
4 21	11 17.42	+ 2 59.7	1.411	2.260	17.3	18.3

495129 2011 WK_{150} 3 15.5 97°.49 5°.0/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.14	+10 43.6	1.531	2.394	14.4	20.9
2 21	12 1.15	+12 11.8	1.478	2.405	10.5	20.7
3 2	11 53.79	+13 44.5	1.449	2.416	6.7	20.5
3 12	11 44.98	+15 11.2	1.447	2.427	5.1	20.5
3 22	11 35.87	+16 21.9	1.472	2.437	7.5	20.6
4 1	11 27.69	+17 9.8	1.522	2.448	11.2	20.9
4 11	11 21.42	+17 31.9	1.595	2.458	14.8	21.1
4 21	11 17.64	+17 29.2	1.688	2.468	17.9	21.3

148310 2000 NN_4 3 15.5 262.°75 0.°5/14.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.54	+ 0 8.0	1.880	2.717	13.3	20.2
2 21	11 59.11	+ 0 53.1	1.791	2.704	9.9	20.0
3 2	11 52.61	+ 1 52.3	1.725	2.692	5.8	19.7
3 12	11 44.71	+ 3 0.5	1.687	2.679	1.4	19.4
3 22	11 36.29	+ 4 10.8	1.677	2.666	3.3	19.5
4 1	11 28.37	+ 5 15.7	1.695	2.653	7.7	19.7
4 11	11 21.89	+ 6 8.8	1.739	2.639	11.8	19.9
4 21	11 17.49	+ 6 46.0	1.804	2.626	15.3	20.1

110371 2001 SR_{328} 3 15.5 87.°91 1.°3/14.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.28	+ 0 38.0	1.769	2.610	13.8	19.8
2 21	11 58.74	+ 2 1.0	1.711	2.628	10.0	19.6
3 2	11 52.24	+ 3 37.9	1.677	2.646	5.7	19.4
3 12	11 44.56	+ 5 20.6	1.672	2.664	1.6	19.2
3 22	11 36.66	+ 6 59.8	1.695	2.681	3.9	19.3
4 1	11 29.51	+ 8 27.1	1.747	2.698	8.1	19.6
4 11	11 23.95	+ 9 36.3	1.824	2.715	11.8	19.9
4 21	11 20.47	+10 24.6	1.923	2.732	15.0	20.1

348865 2006 SO_{141} 3 15.5 138.°09 2.°5/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.79	+ 9 9.7	2.896	3.738	9.0	21.9
2 21	11 57.03	+10 8.7	2.832	3.750	6.5	21.7
3 2	11 51.01	+11 10.6	2.795	3.761	3.9	21.6
3 12	11 44.23	+12 10.7	2.789	3.772	2.5	21.5
3 22	11 37.27	+13 4.3	2.812	3.782	4.0	21.6
4 1	11 30.76	+13 47.5	2.866	3.792	6.5	21.8
4 11	11 25.23	+14 18.0	2.946	3.802	8.9	21.9
4 21	11 21.05	+14 34.8	3.049	3.811	11.0	22.1

341363 2007 TU_{84} 3 15.5 129.°85 0.°6/16.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.19	− 3 2.1	2.803	3.612	10.2	21.4
2 21	11 57.35	− 2 23.0	2.730	3.627	7.6	21.2
3 2	11 51.20	− 1 33.3	2.683	3.642	4.6	21.0
3 12	11 44.28	− 0 36.7	2.666	3.656	1.5	20.8
3 22	11 37.18	+ 0 22.6	2.680	3.670	1.9	20.9
4 1	11 30.53	+ 1 20.0	2.724	3.684	5.0	21.1
4 11	11 24.89	+ 2 11.4	2.796	3.696	7.8	21.3
4 21	11 20.65	+ 2 53.6	2.894	3.709	10.3	21.5

370826 2004 VE_{26} 3 15.5 95.°05 3.°1/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.49	+ 9 40.0	2.033	2.880	12.0	20.6
2 21	12 1.56	+10 19.8	1.978	2.898	8.7	20.4
3 2	11 53.79	+11 2.2	1.949	2.915	5.3	20.2
3 12	11 44.95	+11 41.4	1.947	2.933	3.1	20.1
3 22	11 35.96	+12 11.8	1.975	2.950	4.9	20.2
4 1	11 27.74	+12 29.4	2.031	2.966	8.2	20.5
4 11	11 21.05	+12 32.0	2.113	2.983	11.4	20.7
4 21	11 16.37	+12 19.6	2.216	2.999	14.0	20.9

518908 2010 FN_{112} 3 15.5 159.°94 1.°6/17.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.04	− 5 17.5	2.174	2.984	12.7	21.6
2 21	11 59.12	− 4 57.2	2.093	2.987	9.7	21.4
3 2	11 52.44	− 4 22.3	2.036	2.990	6.2	21.2
3 12	11 44.63	− 3 35.7	2.006	2.993	2.6	21.0
3 22	11 36.49	− 2 42.3	2.005	2.996	2.5	21.0
4 1	11 28.88	− 1 47.6	2.033	2.998	6.1	21.2
4 11	11 22.57	− 0 57.4	2.089	3.000	9.6	21.4
4 21	11 18.08	− 0 16.0	2.168	3.002	12.6	21.6

224374 2005 UF_{178} 3 15.5 229.°34 1.°4/14.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.39	+ 4 9.0	2.230	3.064	11.6	21.4
2 21	12 0.90	+ 4 45.2	2.139	3.052	8.5	21.2
3 2	11 53.55	+ 5 29.5	2.072	3.039	5.0	20.9
3 12	11 44.94	+ 6 17.3	2.035	3.026	1.6	20.7
3 22	11 35.89	+ 7 3.1	2.027	3.012	3.5	20.8
4 1	11 27.28	+ 7 41.6	2.049	2.998	7.3	21.0
4 11	11 19.96	+ 8 8.7	2.098	2.983	10.8	21.2
4 21	11 14.50	+ 8 22.1	2.169	2.967	13.8	21.3

474704 2005 GU_{111} 3 15.5 291.°76 20.°6/ 3.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 31.81	+41 50.3	1.025	1.846	23.0	20.1
2 21	12 22.23	+43 22.5	0.983	1.837	21.4	19.9
3 2	12 7.08	+44 16.1	0.957	1.828	20.6	19.8
3 12	11 48.48	+44 10.2	0.949	1.819	21.0	19.8
3 22	11 29.61	+42 54.5	0.958	1.811	22.6	19.9
4 1	11 13.64	+40 32.7	0.985	1.802	24.9	20.0
4 11	11 2.51	+37 20.3	1.027	1.794	27.5	20.2
4 21	10 56.67	+33 35.7	1.082	1.786	29.9	20.3

240172 2002 PC_{180} 3 15.5 170.°42 1.°2/16.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.82	− 3 51.8	2.240	3.054	12.3	21.4
2 21	11 58.92	− 3 35.1	2.158	3.055	9.3	21.2
3 2	11 52.32	− 3 5.4	2.099	3.056	5.8	21.0
3 12	11 44.61	− 2 25.7	2.069	3.057	2.3	20.8
3 22	11 36.58	− 1 40.4	2.067	3.058	2.4	20.8
4 1	11 29.04	− 0 54.7	2.095	3.059	6.0	21.0
4 11	11 22.76	− 0 13.7	2.150	3.059	9.4	21.2
4 21	11 18.24	+ 0 18.8	2.229	3.060	12.4	21.4

354883 2006 BE_{116} 3 15.5 5.°75 0.°6/15.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 1.19	− 0 25.5	1.090	1.958	18.5	20.3
2 21	11 58.32	+ 0 18.1	1.029	1.958	13.7	20.0
3 2	11 52.50	+ 1 23.4	0.987	1.958	8.1	19.7
3 12	11 44.73	+ 2 42.0	0.968	1.960	2.0	19.3
3 22	11 36.38	+ 4 2.7	0.972	1.963	4.4	19.5
4 1	11 29.04	+ 5 13.5	1.000	1.967	10.3	19.8
4 11	11 23.99	+ 6 4.8	1.049	1.972	15.6	20.1
4 21	11 21.95	+ 6 32.3	1.116	1.978	20.0	20.4

123602 2000 YG_7 3 15.5 76.°73 5.°5/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.82	+14 59.2	1.834	2.693	12.6	19.7
2 21	12 0.53	+16 14.9	1.790	2.712	9.3	19.5
3 2	11 53.25	+17 29.1	1.771	2.730	6.5	19.4
3 12	11 44.83	+18 33.3	1.779	2.749	5.6	19.4
3 22	11 36.26	+19 20.4	1.815	2.768	7.5	19.5
4 1	11 28.54	+19 46.2	1.877	2.786	10.4	19.8
4 11	11 22.50	+19 49.5	1.963	2.804	13.3	20.0
4 21	11 18.59	+19 32.1	2.068	2.822	15.8	20.2

457639 2009 BQ_{157} 3 15.5 328.°65 2.°6/13.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.07	+ 3 13.0	1.196	2.068	16.8	20.8
2 21	11 57.50	+ 4 18.7	1.118	2.051	12.4	20.4
3 2	11 52.09	+ 5 43.4	1.061	2.034	7.2	20.1
3 12	11 44.65	+ 7 17.8	1.028	2.019	2.7	19.8
3 22	11 36.44	+ 8 49.5	1.019	2.004	5.9	19.9
4 1	11 28.95	+10 6.0	1.034	1.991	11.5	20.2
4 11	11 23.55	+10 58.1	1.069	1.978	16.7	20.4
4 21	11 21.08	+11 22.0	1.122	1.967	21.1	20.7

209859 2005 JZ_{32} 3 15.5 257.°74 3.°9/11.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.14	+12 53.9	2.290	3.139	10.8	20.4
2 21	11 59.92	+13 38.4	2.210	3.129	7.9	20.2
3 2	11 52.92	+14 24.1	2.156	3.118	5.2	20.0
3 12	11 44.78	+15 5.1	2.130	3.108	3.9	19.9
3 22	11 36.28	+15 36.0	2.133	3.097	5.6	20.0
4 1	11 28.29	+15 52.6	2.164	3.086	8.6	20.1
4 11	11 21.57	+15 52.7	2.221	3.075	11.5	20.3
4 21	11 16.68	+15 36.5	2.299	3.064	14.1	20.4

120045 2003 BB_{25} 3 15.5 274.°79 0.°9/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.23	− 0 57.7	1.785	2.625	13.8	19.5
2 21	11 57.48	+ 0 22.1	1.699	2.615	10.1	19.3
3 2	11 51.68	+ 2 0.2	1.638	2.606	5.9	19.0
3 12	11 44.49	+ 3 49.5	1.604	2.596	1.5	18.7
3 22	11 36.81	+ 5 40.8	1.599	2.587	3.7	18.8
4 1	11 29.67	+ 7 24.1	1.622	2.577	8.2	19.1
4 11	11 23.99	+ 8 51.2	1.670	2.567	12.4	19.3
4 21	11 20.41	+ 9 57.0	1.740	2.558	15.9	19.5

384891 2012 TJ_{16} 3 15.5 247.°86 1.°0/16.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.03	− 4 3.7	2.230	3.046	12.2	21.3
2 21	11 57.68	− 3 32.5	2.139	3.039	9.2	21.1
3 2	11 51.63	− 2 47.1	2.074	3.032	5.8	20.9
3 12	11 44.46	− 1 50.8	2.036	3.025	2.1	20.6
3 22	11 36.90	− 0 48.7	2.027	3.018	2.4	20.6
4 1	11 29.78	+ 0 13.4	2.047	3.010	6.1	20.8
4 11	11 23.87	+ 1 9.5	2.094	3.003	9.6	21.0
4 21	11 19.69	+ 1 55.3	2.165	2.995	12.8	21.2

368739 2005 UD_{289} 3 15.5 167.°45 1.°2/16.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.51	− 3 35.8	1.996	2.813	13.4	21.9
2 21	12 0.35	− 3 19.3	1.915	2.815	10.1	21.7
3 2	11 53.24	− 2 48.5	1.859	2.817	6.3	21.5
3 12	11 44.88	− 2 6.8	1.830	2.819	2.4	21.2
3 22	11 36.14	− 1 19.1	1.829	2.820	2.6	21.2
4 1	11 27.98	− 0 31.4	1.858	2.821	6.6	21.5
4 11	11 21.25	+ 0 10.7	1.912	2.822	10.4	21.7
4 21	11 16.54	+ 0 42.9	1.990	2.823	13.6	21.9

154978 2004 UN_3 3 15.5 222.°24 1.°4/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.09	+ 4 36.3	2.600	3.431	10.2	21.1
2 21	11 59.72	+ 5 18.3	2.506	3.419	7.5	20.9
3 2	11 52.76	+ 6 7.4	2.439	3.406	4.3	20.7
3 12	11 44.75	+ 6 59.1	2.402	3.392	1.6	20.5
3 22	11 36.36	+ 7 48.6	2.395	3.378	3.3	20.6
4 1	11 28.36	+ 8 31.2	2.418	3.363	6.5	20.7
4 11	11 21.43	+ 9 3.2	2.469	3.347	9.6	20.9
4 21	11 16.08	+ 9 22.5	2.544	3.331	12.3	21.1

437156 2012 VG_{36} 3 15.5 148.°21 5.°0/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.29	+17 41.3	2.509	3.358	9.9	21.4
2 21	11 59.08	+18 39.3	2.449	3.363	7.5	21.2
3 2	11 52.31	+19 34.5	2.415	3.367	5.5	21.1
3 12	11 44.61	+20 21.1	2.410	3.371	5.1	21.1
3 22	11 36.69	+20 54.0	2.433	3.375	6.5	21.2
4 1	11 29.33	+21 10.2	2.484	3.378	8.8	21.3
4 11	11 23.18	+21 8.4	2.560	3.382	11.2	21.5
4 21	11 18.71	+20 49.6	2.656	3.385	13.3	21.6

286115 2001 TB_{125} 3 15.5 81°.31 5°.8/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 8.10	−12 45.8	1.431	2.228	18.8	20.7
2 21	12 2.91	−13 9.9	1.363	2.239	15.1	20.5
3 2	11 55.02	−13 7.7	1.315	2.250	11.0	20.2
3 12	11 45.38	−12 39.5	1.290	2.261	7.2	20.1
3 22	11 35.24	−11 49.3	1.291	2.272	5.9	20.0
4 1	11 26.01	−10 45.2	1.318	2.283	8.5	20.2
4 11	11 18.88	− 9 37.3	1.368	2.294	12.5	20.4
4 21	11 14.53	− 8 34.8	1.441	2.305	16.2	20.7

341396 2007 TY_{140} 3 15.5 246°.53 4°.1/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.91	+13 15.8	2.283	3.133	10.7	20.4
2 21	11 59.75	+14 6.0	2.205	3.124	8.0	20.3
3 2	11 52.83	+14 57.3	2.153	3.116	5.3	20.1
3 12	11 44.77	+15 43.5	2.130	3.106	4.1	20.0
3 22	11 36.37	+16 19.1	2.136	3.097	5.8	20.1
4 1	11 28.48	+16 39.6	2.169	3.088	8.7	20.2
4 11	11 21.88	+16 43.1	2.228	3.078	11.6	20.4
4 21	11 17.08	+16 29.5	2.307	3.068	14.2	20.6

286182 2001 UT_{49} 3 15.5 156°.48 1°.3/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.13	+ 1 42.5	1.879	2.713	13.4	21.5
2 21	12 1.57	+ 2 47.7	1.809	2.722	9.8	21.3
3 2	11 53.97	+ 4 5.2	1.763	2.730	5.6	21.1
3 12	11 45.07	+ 5 28.4	1.746	2.738	1.6	20.8
3 22	11 35.85	+ 6 49.3	1.758	2.744	3.8	21.0
4 1	11 27.32	+ 8 0.2	1.800	2.750	8.0	21.2
4 11	11 20.38	+ 8 55.6	1.867	2.755	11.8	21.5
4 21	11 15.58	+ 9 32.7	1.956	2.758	15.0	21.7

374126 2004 TQ_{72} 3 15.5 172°.83 2°.4/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.93	+ 7 4.7	2.021	2.866	12.1	21.0
2 21	12 0.61	+ 7 42.9	1.948	2.867	8.8	20.8
3 2	11 53.37	+ 8 26.9	1.900	2.868	5.2	20.6
3 12	11 44.92	+ 9 10.9	1.880	2.869	2.4	20.4
3 22	11 36.13	+ 9 49.2	1.889	2.870	4.4	20.6
4 1	11 27.97	+10 16.6	1.927	2.870	8.0	20.8
4 11	11 21.27	+10 30.0	1.989	2.870	11.5	21.0
4 21	11 16.55	+10 28.1	2.074	2.870	14.4	21.2

341777 2007 WC_8 3 15.5 73°.39 7°.3/24.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.49	−23 50.4	2.296	2.999	15.2	21.0
2 21	11 58.73	−24 11.8	2.223	3.019	13.0	20.9
3 2	11 52.21	−24 8.8	2.170	3.039	10.7	20.8
3 12	11 44.60	−23 40.9	2.141	3.058	8.6	20.7
3 22	11 36.73	−22 50.1	2.137	3.078	7.4	20.6
4 1	11 29.44	−21 41.2	2.160	3.097	7.7	20.7
4 11	11 23.51	−20 21.3	2.210	3.116	9.3	20.8
4 21	11 19.42	−18 58.1	2.284	3.136	11.4	21.0

433739 2015 AR_{174} 3 15.5 68°.17 0°.6/16.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.34	− 1 17.7	1.864	2.693	13.7	21.6
2 21	12 0.31	− 1 3.6	1.789	2.697	10.2	21.4
3 2	11 53.25	− 0 36.7	1.738	2.701	6.2	21.1
3 12	11 44.90	− 0 0.8	1.714	2.705	1.9	20.9
3 22	11 36.18	+ 0 38.8	1.718	2.709	2.7	20.9
4 1	11 28.11	+ 1 16.4	1.751	2.714	7.0	21.2
4 11	11 21.58	+ 1 46.6	1.809	2.718	10.9	21.4
4 21	11 17.15	+ 2 5.9	1.889	2.722	14.2	21.7

92566 2000 OM_{53} 3 15.5 267°.74 4°.9/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.15	−11 21.4	1.593	2.392	17.1	18.2
2 21	12 1.53	−11 34.6	1.500	2.379	13.8	18.0
3 2	11 54.33	−11 24.3	1.427	2.366	9.9	17.7
3 12	11 45.26	−10 50.6	1.378	2.352	6.2	17.4
3 22	11 35.41	− 9 56.9	1.355	2.339	5.1	17.3
4 1	11 26.10	− 8 50.1	1.359	2.325	8.2	17.5
4 11	11 18.55	− 7 39.8	1.387	2.311	12.4	17.7
4 21	11 13.58	− 6 34.9	1.437	2.298	16.4	17.9

500948 2013 QN_{12} 3 15.5 149°.40 3°.1/18.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.12	− 8 7.9	2.062	2.857	13.8	22.0
2 21	12 1.50	− 8 16.9	1.981	2.862	10.8	21.8
3 2	11 53.93	− 8 9.9	1.923	2.867	7.4	21.6
3 12	11 45.08	− 7 48.3	1.892	2.871	4.1	21.4
3 22	11 35.85	− 7 15.5	1.889	2.876	3.4	21.4
4 1	11 27.19	− 6 36.6	1.915	2.880	6.4	21.6
4 11	11 19.98	− 5 57.4	1.969	2.883	9.9	21.8
4 21	11 14.79	− 5 22.9	2.046	2.886	13.0	22.0

332643 2008 UC_{106} 3 15.5 177°.27 0°.8/16.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.34	− 2 36.8	2.198	3.016	12.3	21.2
2 21	11 59.35	− 2 15.3	2.115	3.017	9.2	21.0
3 2	11 52.60	− 1 41.2	2.058	3.018	5.7	20.8
3 12	11 44.73	− 0 58.1	2.028	3.018	1.9	20.6
3 22	11 36.51	− 0 10.5	2.027	3.018	2.4	20.6
4 1	11 28.81	+ 0 36.1	2.056	3.018	6.2	20.8
4 11	11 22.39	+ 1 16.6	2.111	3.018	9.7	21.1
4 21	11 17.78	+ 1 47.3	2.191	3.017	12.8	21.3

161929 2007 ET_{133} 3 15.5 7°.22 0°.5/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.01	+ 1 17.1	1.724	2.566	14.1	20.4
2 21	12 0.24	+ 1 42.2	1.650	2.566	10.4	20.2
3 2	11 53.29	+ 2 19.3	1.599	2.566	6.1	19.9
3 12	11 44.93	+ 3 3.2	1.574	2.567	1.5	19.6
3 22	11 36.15	+ 3 47.9	1.578	2.567	3.3	19.8
4 1	11 28.06	+ 4 26.7	1.608	2.568	7.9	20.0
4 11	11 21.60	+ 4 54.5	1.664	2.569	11.9	20.3
4 21	11 17.38	+ 5 8.2	1.741	2.570	15.4	20.5

374550 2006 BT_{110} 3 15.5 101°.63 0°.2/15.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.32	+ 0 42.6	1.930	2.764	13.1	21.4
2 21	12 0.22	+ 1 5.9	1.857	2.769	9.7	21.2
3 2	11 53.17	+ 1 40.3	1.808	2.774	5.7	21.0
3 12	11 44.88	+ 2 21.3	1.786	2.778	1.4	20.7
3 22	11 36.26	+ 3 3.3	1.793	2.783	2.9	20.8
4 1	11 28.28	+ 3 40.8	1.829	2.788	7.1	21.1
4 11	11 21.79	+ 4 9.0	1.890	2.793	10.9	21.3
4 21	11 17.34	+ 4 24.9	1.974	2.797	14.1	21.5

20779 Xiajunchao 3 15.5 162°.20 4°.9/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.45	+11 25.8	1.601	2.461	14.0	19.1
2 21	12 2.16	+12 33.4	1.538	2.463	10.3	18.9
3 2	11 54.46	+13 44.8	1.499	2.464	6.6	18.6
3 12	11 45.23	+14 50.6	1.486	2.466	4.9	18.5
3 22	11 35.61	+15 42.3	1.500	2.467	7.1	18.7
4 1	11 26.82	+16 13.5	1.540	2.468	10.9	18.9
4 11	11 19.91	+16 21.4	1.604	2.469	14.6	19.1
4 21	11 15.48	+16 7.0	1.686	2.470	17.7	19.3

42120 2001 BU_7 3 15.5 69°.17 1°.8/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.04	+ 5 1.9	1.858	2.705	13.0	19.2
2 21	12 0.05	+ 5 39.2	1.791	2.711	9.4	19.0
3 2	11 53.07	+ 6 24.5	1.749	2.718	5.5	18.7
3 12	11 44.85	+ 7 11.8	1.734	2.724	2.0	18.5
3 22	11 36.33	+ 7 54.8	1.747	2.731	4.1	18.7
4 1	11 28.51	+ 8 28.0	1.788	2.738	8.0	18.9
4 11	11 22.25	+ 8 47.4	1.854	2.745	11.7	19.1
4 21	11 18.07	+ 8 51.5	1.942	2.752	14.8	19.4

383379 2006 SL_{289} 3 15.5 155°.49 2°.4/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.35	+ 7 33.4	2.692	3.535	9.5	21.3
2 21	11 56.85	+ 8 37.1	2.621	3.540	6.9	21.2
3 2	11 51.00	+ 9 45.7	2.578	3.545	4.1	21.0
3 12	11 44.30	+10 53.8	2.564	3.550	2.4	20.9
3 22	11 37.38	+11 56.1	2.580	3.554	4.0	21.0
4 1	11 30.89	+12 48.2	2.626	3.558	6.8	21.2
4 11	11 25.43	+13 26.9	2.699	3.562	9.4	21.3
4 21	11 21.40	+13 50.9	2.794	3.565	11.7	21.5

35110 1992 BJ_2 3 15.5 14°.04 3°.4/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.36	− 8 4.0	1.246	2.080	18.9	18.3
2 21	11 59.72	− 7 54.3	1.177	2.081	14.7	18.1
3 2	11 53.29	− 7 17.8	1.128	2.083	9.8	17.8
3 12	11 44.98	− 6 17.8	1.101	2.086	4.9	17.5
3 22	11 36.09	− 5 1.8	1.099	2.089	4.1	17.5
4 1	11 28.09	− 3 40.4	1.121	2.093	8.7	17.7
4 11	11 22.23	− 2 25.2	1.167	2.098	13.6	18.0
4 21	11 19.24	− 1 24.4	1.232	2.103	18.0	18.3

301219 2009 BP_2 3 15.5 22°.19 3°.2/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.04	+ 6 33.3	1.186	2.056	17.1	20.3
2 21	12 1.67	+ 7 13.2	1.130	2.061	12.5	20.1
3 2	11 54.37	+ 8 2.8	1.095	2.067	7.3	19.8
3 12	11 45.23	+ 8 53.0	1.084	2.074	3.3	19.6
3 22	11 35.67	+ 9 34.2	1.097	2.081	6.0	19.8
4 1	11 27.21	+ 9 58.7	1.135	2.089	11.1	20.1
4 11	11 21.09	+10 2.3	1.194	2.098	15.7	20.4
4 21	11 17.93	+ 9 44.6	1.272	2.108	19.6	20.6

490348 2009 DS_{139} 3 15.5 58°.95 1°.6/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.37	− 3 17.8	2.102	2.916	12.9	21.0
2 21	12 0.85	− 3 28.1	2.028	2.925	9.8	20.8
3 2	11 53.48	− 3 26.6	1.978	2.934	6.2	20.6
3 12	11 44.97	− 3 15.5	1.956	2.943	2.6	20.4
3 22	11 36.15	− 2 58.2	1.962	2.953	2.6	20.4
4 1	11 27.94	− 2 39.1	1.998	2.962	6.2	20.6
4 11	11 21.14	− 2 22.4	2.060	2.972	9.7	20.9
4 21	11 16.26	− 2 11.6	2.146	2.981	12.7	21.1

248734 2006 QQ_{112} 3 15.5 181°.63 3°.2/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.10	+ 9 30.5	2.525	3.374	9.9	20.8
2 21	11 56.80	+10 51.7	2.453	3.375	7.2	20.6
3 2	11 51.02	+12 17.4	2.409	3.375	4.5	20.4
3 12	11 44.32	+13 41.2	2.394	3.375	3.2	20.4
3 22	11 37.34	+14 56.8	2.409	3.374	5.0	20.5
4 1	11 30.81	+15 59.1	2.453	3.374	7.7	20.6
4 11	11 25.35	+16 44.7	2.523	3.373	10.4	20.8
4 21	11 21.43	+17 12.5	2.615	3.372	12.8	21.0

35792 1999 JL_{29} 3 15.5 32°.35 6°.0/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 7.52	+13 0.9	1.374	2.243	15.3	18.7
2 21	12 2.52	+14 10.3	1.317	2.245	11.4	18.5
3 2	11 54.79	+15 21.9	1.282	2.247	7.6	18.2
3 12	11 45.34	+16 24.8	1.272	2.250	6.0	18.2
3 22	11 35.48	+17 9.3	1.288	2.253	8.4	18.3
4 1	11 26.63	+17 29.2	1.328	2.256	12.3	18.5
4 11	11 19.93	+17 22.5	1.390	2.259	16.2	18.8
4 21	11 16.03	+16 51.2	1.470	2.262	19.5	19.0

61284 2000 OF_{39} 3 15.5 217°.99 0°.1/15.6 17

2 11	12 2.47	− 2 53.2	2.141	2.963	12.5	20.0
2 21	11 58.09	− 1 47.0	2.051	2.956	9.3	19.7
3 2	11 51.92	− 0 24.6	1.986	2.949	5.6	19.5
3 12	11 44.58	+ 1 8.7	1.950	2.942	1.5	19.2
3 22	11 36.83	+ 2 46.0	1.944	2.934	2.7	19.3
4 1	11 29.55	+ 4 19.4	1.967	2.926	6.8	19.5
4 11	11 23.52	+ 5 41.8	2.018	2.917	10.5	19.7
4 21	11 19.31	+ 6 48.5	2.092	2.908	13.7	19.9

242495 2004 XN_{10} 3 15.5 154°.63 2°.3/17.7 18

2 11	12 6.89	− 7 18.9	1.840	2.646	14.8	21.0
2 21	12 1.50	− 6 54.1	1.763	2.653	11.4	20.8
3 2	11 54.00	− 6 9.9	1.709	2.660	7.5	20.5
3 12	11 45.12	− 5 9.9	1.681	2.666	3.5	20.3
3 22	11 35.86	− 4 0.0	1.681	2.672	3.0	20.3
4 1	11 27.28	− 2 47.5	1.711	2.676	6.9	20.5
4 11	11 20.30	− 1 40.2	1.767	2.681	10.8	20.8
4 21	11 15.51	− 0 43.8	1.846	2.684	14.3	21.0

501495 2014 DO_{8} 3 15.5 52°.56 4°.3/19.9 17

2 11	12 4.18	−12 7.9	2.163	2.941	13.8	21.0
2 21	11 59.31	−12 26.7	2.082	2.947	11.1	20.8
3 2	11 52.62	−12 27.8	2.024	2.954	8.1	20.6
3 12	11 44.76	−12 11.7	1.992	2.960	5.3	20.5
3 22	11 36.55	−11 41.2	1.988	2.967	4.4	20.4
4 1	11 28.87	−11 0.8	2.012	2.974	6.4	20.6
4 11	11 22.52	−10 16.5	2.063	2.981	9.3	20.8
4 21	11 18.04	− 9 33.8	2.138	2.988	12.2	21.0

372539 2009 TD_{9} 3 15.5 218°.36 1°.4/14.0 17

2 11	12 8.36	+ 5 7.4	2.406	3.235	11.0	21.6
2 21	12 2.23	+ 5 33.0	2.314	3.225	8.1	21.4
3 2	11 54.32	+ 6 4.7	2.248	3.214	4.7	21.2
3 12	11 45.22	+ 6 38.5	2.211	3.202	1.6	21.0
3 22	11 35.70	+ 7 9.7	2.205	3.190	3.4	21.1
4 1	11 26.64	+ 7 34.0	2.230	3.177	6.9	21.3
4 11	11 18.80	+ 7 48.1	2.281	3.163	10.2	21.4
4 21	11 12.76	+ 7 50.3	2.357	3.148	13.1	21.6

98937 2001 CO_{11} 3 15.5 40°.26 1°.0/14.8 18

2 11	12 6.78	+ 2 21.3	1.324	2.180	16.7	18.8
2 21	12 1.95	+ 2 45.6	1.266	2.189	12.2	18.5
3 2	11 54.44	+ 3 23.1	1.229	2.199	7.1	18.3
3 12	11 45.26	+ 4 7.0	1.217	2.209	1.8	18.0
3 22	11 35.71	+ 4 49.5	1.230	2.220	4.1	18.2
4 1	11 27.18	+ 5 22.9	1.270	2.231	9.3	18.5
4 11	11 20.79	+ 5 41.8	1.332	2.242	13.9	18.8
4 21	11 17.15	+ 5 43.7	1.414	2.254	17.8	19.0

119739 2001 YN_{24} 3 15.5 335°.61 3°.5/12.6 18

2 11	12 5.25	+ 8 28.7	1.587	2.447	14.1	19.4
2 21	12 0.62	+ 9 13.0	1.515	2.442	10.3	19.2
3 2	11 53.62	+10 3.6	1.467	2.437	6.2	18.9
3 12	11 45.06	+10 53.0	1.445	2.432	3.5	18.8
3 22	11 36.04	+11 33.5	1.450	2.428	5.8	18.9
4 1	11 27.75	+11 58.6	1.480	2.424	10.0	19.1
4 11	11 21.26	+12 4.8	1.535	2.421	13.9	19.3
4 21	11 17.20	+11 51.3	1.608	2.418	17.4	19.6

456755 2007 TJ_{81} 3 15.5 127°.94 0°.3/15.8 18

2 11	12 7.40	− 1 59.0	1.886	2.709	13.8	22.3
2 21	12 1.71	− 1 18.2	1.820	2.725	10.3	22.1
3 2	11 54.03	− 0 23.0	1.778	2.740	6.1	21.9
3 12	11 45.13	+ 0 41.2	1.763	2.755	1.7	21.6
3 22	11 35.96	+ 1 47.9	1.778	2.769	2.8	21.8
4 1	11 27.54	+ 2 50.2	1.822	2.782	7.1	22.0
4 11	11 20.71	+ 3 42.0	1.892	2.794	10.9	22.3
4 21	11 16.00	+ 4 19.8	1.985	2.806	14.1	22.5

462279 2008 EZ_{167} 3 15.5 318°.47 1°.5/16.6 17

2 11	12 3.79	− 2 54.0	1.447	2.288	16.3	21.9
2 21	11 59.95	− 2 49.6	1.357	2.270	12.5	21.6
3 2	11 53.46	− 2 27.3	1.289	2.252	7.9	21.3
3 12	11 45.08	− 1 50.4	1.245	2.235	2.9	20.9
3 22	11 35.92	− 1 4.4	1.227	2.219	3.3	20.9
4 1	11 27.33	− 0 17.3	1.235	2.203	8.6	21.2
4 11	11 20.56	+ 0 22.8	1.266	2.188	13.5	21.4
4 21	11 16.46	+ 0 50.2	1.317	2.174	17.9	21.6

202269 2005 AZ_{72} 3 15.5 96°.98 0°.0/15.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.09	− 0 11.2	2.039	2.869	12.7	21.4
2 21	11 59.25	+ 0 15.4	1.964	2.874	9.4	21.2
3 2	11 52.58	+ 0 53.4	1.914	2.879	5.6	21.0
3 12	11 44.76	+ 1 38.6	1.892	2.884	1.5	20.7
3 22	11 36.63	+ 2 25.6	1.898	2.888	2.7	20.8
4 1	11 29.08	+ 3 8.8	1.933	2.893	6.7	21.0
4 11	11 22.92	+ 3 43.2	1.995	2.898	10.3	21.3
4 21	11 18.67	+ 4 5.9	2.079	2.903	13.4	21.5

194838 2002 AU_{3} 3 15.5 96°.69 1°.2/16.5 18

2 11	12 9.43	− 3 49.6	1.603	2.426	15.9	20.1
2 21	12 3.40	− 3 21.9	1.547	2.450	11.9	19.9
3 2	11 55.08	− 2 36.9	1.514	2.474	7.3	19.7
3 12	11 45.41	− 1 39.7	1.507	2.497	2.6	19.5
3 22	11 35.53	− 0 37.4	1.528	2.519	3.0	19.5
4 1	11 26.63	+ 0 22.3	1.577	2.541	7.5	19.9
4 11	11 19.64	+ 1 12.5	1.652	2.563	11.7	20.1
4 21	11 15.11	+ 1 49.0	1.749	2.583	15.1	20.4

502245 2015 BC_{100} 3 15.5 110°.35 1°.9/17.3 17

2 11	12 4.72	− 5 21.8	1.974	2.787	13.7	21.8
2 21	11 59.80	− 5 9.2	1.897	2.793	10.4	21.6
3 2	11 52.95	− 4 41.1	1.843	2.798	6.7	21.4
3 12	11 44.87	− 4 0.4	1.817	2.804	2.9	21.1
3 22	11 36.44	− 3 12.0	1.818	2.809	2.7	21.1
4 1	11 28.62	− 2 21.7	1.849	2.814	6.5	21.4
4 11	11 22.24	− 1 35.7	1.905	2.819	10.2	21.6
4 21	11 17.85	− 0 58.6	1.985	2.824	13.4	21.8

200718 2001 UL_{219} 3 15.5 75°.77 4°.7/11.8 18

2 11	12 8.77	+ 9 28.6	1.339	2.203	15.9	20.5
2 21	12 3.22	+10 44.5	1.296	2.224	11.5	20.3
3 2	11 55.07	+12 5.2	1.276	2.245	7.1	20.1
3 12	11 45.41	+13 20.1	1.282	2.266	4.7	20.0
3 22	11 35.58	+14 19.0	1.314	2.287	7.2	20.2
4 1	11 26.94	+14 55.4	1.372	2.307	11.3	20.5
4 11	11 20.53	+15 6.8	1.451	2.328	15.2	20.8
4 21	11 16.86	+14 54.8	1.550	2.348	18.4	21.1

100645 1997 VP_{8} 3 15.5 152°.30 0°.5/14.9 18

2 11	12 6.43	+ 1 12.2	2.308	3.132	11.6	20.6
2 21	12 0.74	+ 1 47.3	2.234	3.142	8.5	20.4
3 2	11 53.37	+ 2 31.9	2.186	3.151	5.0	20.2
3 12	11 44.97	+ 3 21.4	2.167	3.159	1.2	20.0
3 22	11 36.30	+ 4 10.9	2.178	3.167	2.8	20.1
4 1	11 28.21	+ 4 55.2	2.219	3.174	6.4	20.3
4 11	11 21.40	+ 5 30.1	2.288	3.180	9.7	20.5
4 21	11 16.37	+ 5 53.2	2.380	3.186	12.5	20.7

473272 2015 MR_{91} 3 15.5 258°.57 6°.8/23.5 18

2 11	12 3.44	−21 37.3	2.458	3.171	14.0	20.6
2 21	11 58.76	−22 10.3	2.364	3.170	12.0	20.4
3 2	11 52.33	−22 22.5	2.291	3.168	9.8	20.2
3 12	11 44.73	−22 12.8	2.242	3.166	7.9	20.1
3 22	11 36.70	−21 42.1	2.219	3.164	6.8	20.0
4 1	11 29.07	−20 53.8	2.224	3.163	7.4	20.1
4 11	11 22.63	−19 53.8	2.255	3.161	9.2	20.2
4 21	11 17.93	−18 48.6	2.311	3.159	11.4	20.3

86434 2000 CX_{7} 3 15.5 112°.32 2°.5/13.6 18

2 11	12 11.02	+ 5 55.5	1.442	2.294	15.8	19.5
2 21	12 4.89	+ 6 32.9	1.383	2.305	11.5	19.2
3 2	11 56.12	+ 7 19.0	1.347	2.316	6.7	19.0
3 12	11 45.71	+ 8 5.9	1.337	2.327	2.7	18.8
3 22	11 34.98	+ 8 45.9	1.354	2.338	5.1	18.9
4 1	11 25.28	+ 9 12.3	1.398	2.348	9.8	19.2
4 11	11 17.74	+ 9 21.2	1.465	2.358	14.1	19.5
4 21	11 12.95	+ 9 12.1	1.553	2.367	17.7	19.8

189066 2000 WC_{74} 3 15.5 239°.42 3°.8/11.4 17

2 11	12 8.01	+12 34.7	2.412	3.254	10.6	20.8
2 21	12 2.05	+13 21.4	2.321	3.236	7.8	20.6
3 2	11 54.26	+14 9.8	2.256	3.218	5.1	20.4
3 12	11 45.24	+14 54.2	2.221	3.199	3.8	20.3
3 22	11 35.77	+15 29.0	2.215	3.179	5.5	20.4
4 1	11 26.74	+15 50.0	2.239	3.158	8.4	20.5
4 11	11 18.94	+15 54.7	2.288	3.137	11.4	20.7
4 21	11 12.96	+15 42.9	2.360	3.115	14.0	20.8

217030 2001 OZ_{97} 3 15.5 221°.70 3°.2/11.7 17

2 11	12 5.80	+ 9 21.7	2.406	3.248	10.6	22.1
2 21	12 0.41	+10 28.1	2.318	3.235	7.7	21.9
3 2	11 53.28	+11 39.5	2.257	3.222	4.8	21.7
3 12	11 44.99	+12 49.9	2.226	3.208	3.2	21.6
3 22	11 36.29	+13 53.0	2.225	3.193	5.0	21.7
4 1	11 28.01	+14 43.3	2.253	3.178	8.1	21.8
4 11	11 20.91	+15 17.3	2.307	3.161	11.1	22.0
4 21	11 15.56	+15 33.8	2.384	3.144	13.8	22.2

420001 2011 CN_{47} 3 15.5 266°.24 0°.2/15.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.47	+ 0 28.7	1.929	2.762	13.2	21.5
2 21	12 0.57	+ 0 53.6	1.835	2.747	9.8	21.3
3 2	11 53.56	+ 1 30.8	1.766	2.731	5.9	21.0
3 12	11 45.10	+ 2 15.9	1.723	2.715	1.5	20.7
3 22	11 36.07	+ 3 3.4	1.709	2.699	3.0	20.7
4 1	11 27.52	+ 3 47.0	1.724	2.683	7.5	21.0
4 11	11 20.39	+ 4 21.3	1.764	2.667	11.5	21.2
4 21	11 15.36	+ 4 42.6	1.826	2.650	15.0	21.4

211203 2002 NJ_{62} 3 15.5 247°.12 1°.1/14.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.63	+ 2 11.1	1.855	2.692	13.4	21.3
2 21	12 1.50	+ 2 50.1	1.763	2.677	9.9	21.0
3 2	11 54.15	+ 3 41.1	1.695	2.662	5.8	20.7
3 12	11 45.26	+ 4 39.0	1.655	2.647	1.6	20.4
3 22	11 35.79	+ 5 36.8	1.643	2.631	3.7	20.5
4 1	11 26.81	+ 6 27.8	1.660	2.615	8.2	20.8
4 11	11 19.35	+ 7 5.9	1.702	2.598	12.3	21.0
4 21	11 14.10	+ 7 28.2	1.766	2.580	15.9	21.2

181467 2006 TY_{55} 3 15.5 152°.30 2°.4/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.01	+ 8 0.3	2.551	3.395	10.0	20.5
2 21	11 57.43	+ 8 53.4	2.479	3.398	7.2	20.4
3 2	11 51.40	+ 9 51.0	2.434	3.402	4.3	20.2
3 12	11 44.48	+10 47.7	2.419	3.405	2.4	20.0
3 22	11 37.31	+11 38.6	2.433	3.408	4.1	20.2
4 1	11 30.61	+12 19.3	2.476	3.411	7.0	20.4
4 11	11 25.01	+12 46.7	2.546	3.414	9.8	20.5
4 21	11 20.92	+12 59.7	2.638	3.416	12.2	20.7

29792 1999 CG_{65} 3 15.5 59°.04 1°.2/16.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.96	− 5 14.2	2.060	2.878	13.0	18.4
2 21	11 56.98	− 4 29.6	1.984	2.884	9.8	18.2
3 2	11 51.26	− 3 28.6	1.931	2.889	6.2	18.0
3 12	11 44.46	− 2 15.5	1.906	2.895	2.3	17.8
3 22	11 37.35	− 0 56.3	1.910	2.901	2.4	17.8
4 1	11 30.79	+ 0 21.8	1.942	2.907	6.3	18.0
4 11	11 25.53	+ 1 32.0	2.001	2.913	9.9	18.3
4 21	11 22.07	+ 2 29.7	2.084	2.919	13.0	18.5

341833 2008 CS_{89} 3 15.5 82°.27 0°.3/15.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.59	+ 0 21.9	2.302	3.131	11.4	21.5
2 21	11 57.92	+ 0 58.1	2.236	3.146	8.4	21.3
3 2	11 51.70	+ 1 44.1	2.195	3.161	4.9	21.1
3 12	11 44.55	+ 2 35.4	2.183	3.175	1.2	20.9
3 22	11 37.20	+ 3 27.1	2.201	3.190	2.6	21.0
4 1	11 30.42	+ 4 14.0	2.248	3.205	6.1	21.3
4 11	11 24.85	+ 4 51.9	2.321	3.220	9.3	21.5
4 21	11 20.93	+ 5 18.3	2.418	3.234	12.0	21.7

263744 2008 JX_{21} 3 15.5 8°.63 9°.2/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.12	+22 14.4	1.382	2.247	15.5	19.4
2 21	12 4.46	+23 11.4	1.331	2.248	12.3	19.2
3 2	11 55.95	+23 58.5	1.302	2.249	9.8	19.1
3 12	11 45.70	+24 24.7	1.297	2.252	9.3	19.0
3 22	11 35.14	+24 22.4	1.317	2.255	11.2	19.2
4 1	11 25.77	+23 49.1	1.359	2.259	14.3	19.3
4 11	11 18.76	+22 47.1	1.423	2.263	17.5	19.6
4 21	11 14.68	+21 21.9	1.503	2.268	20.3	19.8

299830 2006 SX_{178} 3 15.5 270°.03 1°.5/13.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.81	+ 5 3.7	2.434	3.269	10.7	22.1
2 21	11 59.73	+ 5 35.1	2.331	3.245	7.9	21.9
3 2	11 52.93	+ 6 13.5	2.254	3.221	4.6	21.6
3 12	11 44.93	+ 6 54.6	2.205	3.196	1.7	21.4
3 22	11 36.45	+ 7 33.6	2.187	3.171	3.4	21.4
4 1	11 28.30	+ 8 5.8	2.198	3.146	6.9	21.6
4 11	11 21.26	+ 8 27.4	2.236	3.120	10.3	21.8
4 21	11 15.89	+ 8 36.3	2.297	3.094	13.2	21.9

451665 2013 AV_{38} 3 15.5 47°.08 3°.4/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.06	− 6 58.0	1.277	2.107	18.7	21.2
2 21	12 2.40	− 7 3.9	1.211	2.113	14.5	21.0
3 2	11 54.87	− 6 46.3	1.165	2.120	9.6	20.7
3 12	11 45.47	− 6 7.9	1.143	2.128	4.8	20.4
3 22	11 35.53	− 5 15.0	1.145	2.135	4.1	20.4
4 1	11 26.56	− 4 16.5	1.173	2.143	8.7	20.7
4 11	11 19.81	− 3 22.2	1.224	2.151	13.5	21.0
4 21	11 15.99	− 2 39.4	1.295	2.159	17.6	21.3

455200 2001 BM_{12} 3 15.5 113°.25 0°.9/16.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.49	− 3 25.0	1.747	2.569	14.8	22.3
2 21	12 1.94	− 2 53.5	1.682	2.585	11.1	22.1
3 2	11 54.25	− 2 5.8	1.640	2.601	6.8	21.9
3 12	11 45.25	− 1 6.7	1.626	2.616	2.3	21.6
3 22	11 35.97	− 0 2.9	1.640	2.631	2.8	21.7
4 1	11 27.50	+ 0 58.2	1.682	2.646	7.2	22.0
4 11	11 20.73	+ 1 50.2	1.751	2.659	11.2	22.2
4 21	11 16.22	+ 2 28.7	1.841	2.673	14.6	22.5

428395 2007 SX_{8} 3 15.5 228°.07 1°.3/14.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.06	+ 3 32.6	2.341	3.177	11.0	21.2
2 21	11 58.39	+ 4 15.9	2.255	3.170	8.0	21.0
3 2	11 52.07	+ 5 7.6	2.196	3.164	4.7	20.8
3 12	11 44.69	+ 6 2.9	2.165	3.157	1.5	20.6
3 22	11 36.95	+ 6 56.5	2.164	3.149	3.3	20.7
4 1	11 29.67	+ 7 43.1	2.192	3.142	6.8	20.9
4 11	11 23.54	+ 8 18.6	2.247	3.134	10.1	21.1
4 21	11 19.10	+ 8 40.5	2.324	3.126	12.9	21.3

69790 1998 QM_{88} 3 15.5 78°.75 3°.8/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.08	−12 57.4	2.085	2.861	14.3	19.6
2 21	11 59.13	−12 35.3	2.023	2.888	11.3	19.4
3 2	11 52.45	−11 52.5	1.983	2.915	8.0	19.3
3 12	11 44.77	−10 51.8	1.969	2.941	4.9	19.1
3 22	11 36.90	− 9 38.3	1.984	2.967	3.8	19.1
4 1	11 29.74	− 8 18.6	2.028	2.993	6.0	19.3
4 11	11 23.98	− 7 0.3	2.100	3.019	9.1	19.5
4 21	11 20.10	− 5 49.4	2.196	3.044	12.0	19.7

174511 2003 BH_{77} 3 15.5 96°.24 5°.5/ 8.1 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.47	+18 15.2	2.447	3.298	10.1	20.6
2 21	11 58.50	+19 43.6	2.406	3.320	7.7	20.5
3 2	11 52.01	+21 8.4	2.392	3.341	5.8	20.4
3 12	11 44.65	+22 22.5	2.408	3.361	5.6	20.4
3 22	11 37.14	+23 20.2	2.452	3.382	7.1	20.5
4 1	11 30.25	+23 58.2	2.523	3.402	9.3	20.7
4 11	11 24.61	+24 15.5	2.618	3.421	11.5	20.9
4 21	11 20.62	+24 13.4	2.733	3.440	13.4	21.0

341240 2007 RB_{176} 3 15.5 122°.04 2°.3/18.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.22	−10 7.8	2.865	3.641	10.8	21.5
2 21	11 57.41	− 9 36.0	2.790	3.660	8.4	21.3
3 2	11 51.33	− 8 49.9	2.739	3.678	5.7	21.2
3 12	11 44.48	− 7 52.1	2.717	3.695	3.2	21.0
3 22	11 37.46	− 6 46.4	2.726	3.713	2.5	21.0
4 1	11 30.89	− 5 37.6	2.765	3.729	4.7	21.2
4 11	11 25.32	− 4 30.7	2.833	3.745	7.3	21.4
4 21	11 21.13	− 3 30.0	2.927	3.761	9.7	21.5

135387 2001 TB_{187} 3 15.5 45°.38 4°.7/19.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.36	−12 5.3	1.261	2.078	19.7	19.9
2 21	11 59.67	−11 50.0	1.198	2.088	15.6	19.6
3 2	11 53.24	−11 3.3	1.153	2.099	11.0	19.4
3 12	11 45.05	− 9 48.1	1.131	2.110	6.4	19.2
3 22	11 36.41	− 8 12.6	1.134	2.121	4.9	19.1
4 1	11 28.72	− 6 28.4	1.162	2.133	8.5	19.4
4 11	11 23.19	− 4 48.8	1.213	2.146	13.0	19.6
4 21	11 20.44	− 3 23.6	1.285	2.159	17.2	19.9

392506 2011 OJ_{51} 3 15.5 197°.54 4°.8/21.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.23	−16 50.4	2.931	3.661	11.6	21.6
2 21	11 59.79	−17 13.0	2.830	3.658	9.7	21.4
3 2	11 52.85	−17 20.0	2.754	3.654	7.5	21.3
3 12	11 44.92	−17 11.0	2.704	3.650	5.6	21.1
3 22	11 36.61	−16 47.5	2.683	3.645	4.8	21.1
4 1	11 28.64	−16 12.4	2.692	3.640	5.8	21.1
4 11	11 21.65	−15 30.0	2.729	3.635	7.8	21.2
4 21	11 16.13	−14 45.2	2.792	3.629	10.0	21.4

498238 2007 UP_{57} 3 15.5 92°.59 2°.4/12.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.52	+ 7 45.2	2.232	3.077	11.2	21.7
2 21	11 59.40	+ 8 24.4	2.168	3.087	8.1	21.5
3 2	11 52.61	+ 9 7.9	2.130	3.098	4.8	21.3
3 12	11 44.83	+ 9 50.5	2.120	3.108	2.4	21.2
3 22	11 36.83	+10 27.0	2.139	3.118	4.2	21.3
4 1	11 29.44	+10 53.1	2.187	3.128	7.4	21.5
4 11	11 23.35	+11 6.1	2.261	3.138	10.5	21.7
4 21	11 19.03	+11 5.0	2.357	3.148	13.1	21.9

114681 2003 FK_{71} 3 15.5 277°.98 1°.2/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.12	+ 3 32.8	2.417	3.253	10.7	20.1
2 21	11 57.72	+ 4 10.2	2.322	3.237	7.8	19.8
3 2	11 51.71	+ 4 55.9	2.254	3.221	4.6	19.6
3 12	11 44.63	+ 5 45.5	2.214	3.205	1.4	19.3
3 22	11 37.15	+ 6 33.9	2.203	3.189	3.1	19.4
4 1	11 30.04	+ 7 16.3	2.221	3.172	6.6	19.6
4 11	11 24.02	+ 7 48.5	2.266	3.156	9.9	19.8
4 21	11 19.61	+ 8 8.0	2.335	3.139	12.8	20.0

83150 2001 QA_{268} 3 15.5 152°.35 1°.5/17.3 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.83	− 4 53.8	2.621	3.422	11.0	19.8
2 21	11 58.75	− 4 41.8	2.538	3.428	8.4	19.6
3 2	11 52.20	− 4 18.2	2.481	3.434	5.4	19.4
3 12	11 44.73	− 3 45.4	2.453	3.439	2.3	19.2
3 22	11 37.00	− 3 7.0	2.454	3.444	2.2	19.2
4 1	11 29.71	− 2 27.2	2.485	3.449	5.2	19.4
4 11	11 23.50	− 1 50.1	2.545	3.453	8.2	19.6
4 21	11 18.82	− 1 19.4	2.629	3.457	10.8	19.8

175530 2006 SH_{120} 3 15.5 128°.69 5°.9/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 9.39	+21 43.5	2.445	3.285	10.5	20.0
2 21	12 2.85	+22 21.4	2.386	3.290	8.2	19.8
3 2	11 54.60	+22 52.7	2.354	3.295	6.4	19.7
3 12	11 45.35	+23 11.7	2.350	3.300	6.0	19.7
3 22	11 35.93	+23 14.3	2.374	3.305	7.3	19.8
4 1	11 27.21	+22 58.4	2.426	3.309	9.5	19.9
4 11	11 19.90	+22 24.4	2.503	3.314	11.7	20.1
4 21	11 14.47	+21 34.5	2.601	3.318	13.8	20.3

368720 2005 UF_{16} 3 15.5 184°.64 1°.5/13.7 13 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.16	+ 4 45.8	2.639	3.467	10.2	23.5
2 21	12 0.46	+ 5 28.7	2.556	3.467	7.4	23.3
3 2	11 53.22	+ 6 18.0	2.501	3.467	4.3	23.1
3 12	11 45.01	+ 7 9.2	2.475	3.466	1.6	22.9
3 22	11 36.51	+ 7 57.7	2.481	3.464	3.2	23.0
4 1	11 28.46	+ 8 38.8	2.517	3.461	6.4	23.2
4 11	11 21.52	+ 9 9.3	2.581	3.457	9.3	23.4
4 21	11 16.16	+ 9 27.5	2.668	3.453	11.9	23.5

123761 2001 AD_{41} 3 15.5 24°.79 7°.9/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.44	+17 31.0	1.502	2.377	13.9	18.9
2 21	11 57.88	+19 29.7	1.458	2.385	10.6	18.7
3 2	11 52.00	+21 25.3	1.439	2.393	8.3	18.6
3 12	11 44.70	+23 5.5	1.445	2.403	8.2	18.6
3 22	11 37.11	+24 20.1	1.477	2.413	10.4	18.7
4 1	11 30.39	+25 3.3	1.532	2.423	13.4	18.9
4 11	11 25.52	+25 14.2	1.607	2.434	16.4	19.1
4 21	11 23.02	+24 56.1	1.699	2.446	19.0	19.4

138789 2000 SU_{362} 3 15.5 250°.26 3°.6/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.23	+12 33.6	2.632	3.479	9.6	20.5
2 21	11 58.44	+13 32.1	2.544	3.462	7.1	20.3
3 2	11 52.10	+14 32.8	2.484	3.446	4.7	20.2
3 12	11 44.75	+15 30.0	2.453	3.429	3.7	20.1
3 22	11 37.03	+16 18.5	2.451	3.411	5.3	20.1
4 1	11 29.68	+16 53.9	2.478	3.393	7.9	20.3
4 11	11 23.39	+17 13.6	2.531	3.375	10.6	20.4
4 21	11 18.64	+17 16.9	2.605	3.357	13.0	20.6

376403 2012 FP_{54} 3 15.5 288°.88 3°.6/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.22	+ 9 41.3	1.720	2.572	13.6	20.9
2 21	12 2.88	+10 14.1	1.631	2.554	10.0	20.6
3 2	11 55.08	+10 51.7	1.567	2.535	6.2	20.4
3 12	11 45.59	+11 27.1	1.530	2.516	3.6	20.2
3 22	11 35.45	+11 53.6	1.520	2.497	5.8	20.3
4 1	11 25.89	+12 5.2	1.538	2.479	9.9	20.4
4 11	11 18.03	+11 58.9	1.579	2.460	13.9	20.6
4 21	11 12.61	+11 34.1	1.641	2.441	17.5	20.8

253055 2002 TG_{46} 3 15.5 219°.10 8°.3/23.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.56	−22 59.8	1.335	2.090	21.9	20.4
2 21	12 0.85	−22 32.4	1.246	2.085	18.7	20.1
3 2	11 54.16	−21 20.0	1.174	2.080	14.8	19.9
3 12	11 45.39	−19 20.2	1.123	2.075	10.8	19.6
3 22	11 35.83	−16 38.1	1.097	2.068	8.4	19.5
4 1	11 27.05	−13 27.6	1.096	2.062	9.8	19.5
4 11	11 20.46	−10 9.0	1.121	2.055	13.8	19.7
4 21	11 16.89	− 7 1.8	1.169	2.047	18.2	19.9

162736 2000 VD_{52} 3 15.5 101°.46 2°.0/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.69	− 5 18.0	1.639	2.456	15.8	20.1
2 21	12 2.96	− 5 4.5	1.576	2.474	12.0	19.9
3 2	11 54.94	− 4 32.9	1.535	2.491	7.7	19.7
3 12	11 45.51	− 3 47.0	1.520	2.507	3.2	19.4
3 22	11 35.77	− 2 52.9	1.533	2.524	3.1	19.4
4 1	11 26.91	− 1 57.9	1.574	2.540	7.3	19.7
4 11	11 19.89	− 1 9.1	1.640	2.555	11.5	20.0
4 21	11 15.29	− 0 31.6	1.729	2.570	15.0	20.3

202846 2008 TK_{20} 3 15.5 141°.83 0°.4/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.39	+ 0 58.2	2.173	3.003	12.0	21.3
2 21	11 59.42	+ 1 28.8	2.097	3.008	8.8	21.1
3 2	11 52.71	+ 2 9.5	2.047	3.012	5.2	20.9
3 12	11 44.91	+ 2 55.9	2.024	3.016	1.3	20.6
3 22	11 36.81	+ 3 42.8	2.031	3.020	2.8	20.7
4 1	11 29.26	+ 4 24.9	2.067	3.024	6.6	21.0
4 11	11 23.02	+ 4 57.8	2.129	3.027	10.0	21.2
4 21	11 18.58	+ 5 18.8	2.214	3.031	13.0	21.4

456858 2007 UK_{137} 3 15.5 135°.53 3°.2/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.95	− 8 38.6	1.798	2.597	15.4	22.0
2 21	12 2.39	− 8 35.3	1.723	2.607	12.0	21.8
3 2	11 54.62	− 8 12.6	1.670	2.616	8.1	21.6
3 12	11 45.44	− 7 32.6	1.643	2.624	4.4	21.4
3 22	11 35.87	− 6 40.2	1.645	2.633	3.6	21.3
4 1	11 27.01	− 5 42.0	1.675	2.640	7.0	21.5
4 11	11 19.82	− 4 45.4	1.730	2.648	10.8	21.8
4 21	11 14.90	− 3 56.7	1.809	2.655	14.3	22.0

244079 2001 TU_{237} 3 15.5 79°.45 1°.0/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 1.38	+ 1 30.9	2.221	3.057	11.5	20.7
2 21	11 57.12	+ 2 34.8	2.158	3.072	8.4	20.5
3 2	11 51.30	+ 3 48.9	2.120	3.088	4.8	20.3
3 12	11 44.53	+ 5 7.2	2.111	3.103	1.4	20.1
3 22	11 37.56	+ 6 23.5	2.132	3.118	3.2	20.2
4 1	11 31.16	+ 7 31.5	2.181	3.133	6.7	20.5
4 11	11 25.98	+ 8 26.5	2.258	3.148	9.9	20.7
4 21	11 22.47	+ 9 6.1	2.357	3.163	12.6	20.9

125414 2001 VG_{109} 3 15.5 253°.29 2°.2/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.50	+ 4 55.2	1.514	2.365	15.2	20.1
2 21	12 3.26	+ 5 31.7	1.435	2.357	11.2	19.8
3 2	11 55.38	+ 6 18.8	1.379	2.348	6.6	19.5
3 12	11 45.69	+ 7 9.7	1.348	2.339	2.4	19.3
3 22	11 35.38	+ 7 56.4	1.345	2.330	4.9	19.4
4 1	11 25.79	+ 8 31.4	1.368	2.321	9.7	19.6
4 11	11 18.12	+ 8 49.5	1.416	2.312	14.2	19.9
4 21	11 13.12	+ 8 48.8	1.482	2.302	18.1	20.1

64857 2001 YE_{42} 3 15.5 124°.04 0°.2/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.71	− 0 54.3	2.113	2.934	12.6	19.7
2 21	12 1.09	− 0 27.5	2.044	2.949	9.3	19.5
3 2	11 53.68	+ 0 10.7	2.000	2.963	5.6	19.3
3 12	11 45.17	+ 0 56.1	1.985	2.976	1.6	19.1
3 22	11 36.42	+ 1 43.6	1.999	2.989	2.6	19.2
4 1	11 28.31	+ 2 27.7	2.042	3.002	6.4	19.4
4 11	11 21.62	+ 3 3.6	2.112	3.014	10.0	19.7
4 21	11 16.83	+ 3 28.5	2.206	3.025	12.9	19.9

410244 2007 TH_{63} 3 15.5 193°.64 3°.2/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.02	+ 8 25.8	1.877	2.722	12.9	22.5
2 21	12 3.13	+ 9 14.6	1.802	2.721	9.4	22.3
3 2	11 55.05	+10 9.2	1.752	2.718	5.7	22.0
3 12	11 45.57	+11 2.5	1.729	2.716	3.2	21.9
3 22	11 35.66	+11 47.6	1.736	2.712	5.3	22.0
4 1	11 26.43	+12 18.8	1.771	2.708	9.1	22.2
4 11	11 18.82	+12 32.8	1.831	2.704	12.7	22.4
4 21	11 13.45	+12 28.8	1.912	2.699	15.8	22.6

190490 2000 EU_{172} 3 15.5 135°.91 1°.3/16.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.38	− 3 36.1	1.755	2.569	15.1	20.5
2 21	12 4.85	− 3 20.8	1.686	2.584	11.4	20.3
3 2	11 56.04	− 2 49.7	1.641	2.599	7.1	20.1
3 12	11 45.82	− 2 6.9	1.623	2.613	2.6	19.8
3 22	11 35.27	− 1 18.0	1.634	2.625	2.9	19.9
4 1	11 25.55	− 0 29.6	1.674	2.637	7.3	20.2
4 11	11 17.64	+ 0 11.8	1.740	2.648	11.3	20.4
4 21	11 12.13	+ 0 42.1	1.829	2.658	14.8	20.7

450730 2007 GX_{7} 3 15.5 285°.16 2°.2/14.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.71	+ 5 22.1	1.346	2.202	16.4	20.8
2 21	12 4.43	+ 5 46.2	1.270	2.194	12.1	20.6
3 2	11 56.19	+ 6 20.4	1.217	2.187	7.1	20.3
3 12	11 45.93	+ 6 57.8	1.189	2.180	2.5	19.9
3 22	11 34.98	+ 7 30.3	1.186	2.172	5.1	20.1
4 1	11 24.88	+ 7 50.7	1.209	2.165	10.3	20.4
4 11	11 16.97	+ 7 54.2	1.256	2.158	15.2	20.6
4 21	11 12.03	+ 7 39.1	1.321	2.151	19.3	20.8

434869 2006 SH_{297} 3 15.5 32°.29 0°.1/15.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.60	− 1 53.1	2.246	3.072	11.8	21.2
2 21	11 56.64	− 1 3.1	2.165	3.073	8.7	21.0
3 2	11 51.09	− 0 0.0	2.110	3.074	5.2	20.8
3 12	11 44.51	+ 1 11.5	2.083	3.075	1.4	20.5
3 22	11 37.63	+ 2 25.7	2.085	3.076	2.5	20.6
4 1	11 31.23	+ 3 36.1	2.116	3.077	6.2	20.9
4 11	11 25.99	+ 4 37.2	2.175	3.078	9.6	21.1
4 21	11 22.42	+ 5 25.2	2.256	3.079	12.6	21.3

152673 1998 HU_{14} 3 15.5 268°.30 2°.0/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.08	+ 5 19.7	1.972	2.817	12.4	20.2
2 21	12 0.27	+ 6 1.1	1.883	2.802	9.1	19.9
3 2	11 53.41	+ 6 51.1	1.819	2.787	5.4	19.7
3 12	11 45.17	+ 7 44.0	1.782	2.772	2.1	19.4
3 22	11 36.42	+ 8 33.4	1.774	2.757	4.2	19.5
4 1	11 28.16	+ 9 13.2	1.794	2.742	8.2	19.7
4 11	11 21.30	+ 9 38.9	1.839	2.726	12.0	19.9
4 21	11 16.48	+ 9 48.3	1.906	2.710	15.2	20.1

246437 2007 VO_{125} 3 15.5 90°.99 4°.1/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.81	+ 8 44.0	1.577	2.436	14.3	20.4
2 21	12 1.61	+10 4.2	1.527	2.453	10.3	20.2
3 2	11 54.14	+11 30.3	1.501	2.470	6.3	20.0
3 12	11 45.32	+12 52.4	1.502	2.486	4.1	19.9
3 22	11 36.27	+14 1.6	1.531	2.503	6.4	20.1
4 1	11 28.15	+14 50.9	1.586	2.519	10.3	20.4
4 11	11 21.90	+15 17.1	1.664	2.535	13.9	20.6
4 21	11 18.04	+15 20.6	1.762	2.550	16.9	20.9

146498 2001 SK_{30} 3 15.5 359°.92 1°.1/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.90	+ 2 48.0	1.634	2.481	14.5	19.7
2 21	12 1.07	+ 3 15.7	1.561	2.480	10.6	19.4
3 2	11 53.94	+ 3 54.7	1.511	2.480	6.2	19.2
3 12	11 45.31	+ 4 39.1	1.488	2.480	1.7	18.8
3 22	11 36.23	+ 5 22.3	1.492	2.480	3.8	19.0
4 1	11 27.87	+ 5 57.5	1.522	2.480	8.4	19.3
4 11	11 21.25	+ 6 19.8	1.578	2.481	12.6	19.5
4 21	11 17.00	+ 6 26.5	1.654	2.481	16.2	19.7

251790 1999 RM_{228} 3 15.5 204°.85 1°.8/13.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.55	+ 5 4.1	2.091	2.926	12.2	22.2
2 21	12 2.64	+ 5 44.2	2.006	2.920	8.9	21.9
3 2	11 54.73	+ 6 32.2	1.947	2.914	5.2	21.7
3 12	11 45.51	+ 7 22.6	1.917	2.907	2.0	21.5
3 22	11 35.84	+ 8 9.5	1.916	2.899	3.9	21.6
4 1	11 26.72	+ 8 47.3	1.945	2.891	7.8	21.8
4 11	11 19.03	+ 9 12.0	2.000	2.882	11.4	22.0
4 21	11 13.36	+ 9 21.7	2.077	2.872	14.5	22.2

352696 2008 SP_{105} 3 15.5 135°.84 0°.5/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.75	+ 0 30.6	1.594	2.431	15.2	21.7
2 21	12 3.14	+ 1 8.5	1.527	2.441	11.2	21.5
3 2	11 55.14	+ 2 0.4	1.483	2.449	6.6	21.2
3 12	11 45.62	+ 3 0.3	1.466	2.458	1.7	20.9
3 22	11 35.72	+ 4 0.6	1.476	2.466	3.5	21.0
4 1	11 26.66	+ 4 53.5	1.514	2.473	8.4	21.3
4 11	11 19.47	+ 5 33.1	1.577	2.480	12.6	21.6
4 21	11 14.77	+ 5 56.1	1.661	2.486	16.2	21.9

337944 2001 YH_{102} 3 15.5 53°.11 8°.1/25.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.82	−25 43.6	2.277	2.968	15.6	20.4
2 21	11 58.45	−26 16.3	2.196	2.978	13.6	20.3
3 2	11 52.24	−26 24.0	2.134	2.988	11.4	20.1
3 12	11 44.85	−26 5.4	2.094	2.998	9.4	20.0
3 22	11 37.07	−25 21.5	2.079	3.008	8.3	20.0
4 1	11 29.83	−24 16.3	2.090	3.019	8.4	20.0
4 11	11 23.92	−22 57.1	2.127	3.029	9.9	20.1
4 21	11 19.89	−21 31.6	2.188	3.040	11.9	20.2

285942 2001 QC_{335} 3 15.5 209°.57 1°.5/14.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.62	+ 3 28.9	1.812	2.649	13.7	22.3
2 21	12 3.73	+ 4 8.9	1.728	2.643	10.1	22.0
3 2	11 55.52	+ 4 59.7	1.668	2.636	5.9	21.8
3 12	11 45.76	+ 5 55.3	1.636	2.628	1.8	21.5
3 22	11 35.45	+ 6 48.7	1.633	2.619	4.0	21.6
4 1	11 25.76	+ 7 33.2	1.659	2.610	8.4	21.9
4 11	11 17.72	+ 8 3.7	1.710	2.600	12.5	22.1
4 21	11 12.00	+ 8 17.7	1.782	2.589	16.1	22.3

400266 2007 RP_{147} 3 15.5 120°.59 2°.0/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.91	+ 5 1.8	1.767	2.607	13.8	21.3
2 21	12 3.70	+ 5 41.7	1.707	2.623	10.0	21.1
3 2	11 55.33	+ 6 29.6	1.671	2.639	5.8	20.9
3 12	11 45.66	+ 7 19.1	1.663	2.653	2.1	20.7
3 22	11 35.73	+ 8 3.4	1.684	2.668	4.3	20.8
4 1	11 26.66	+ 8 36.9	1.733	2.681	8.4	21.1
4 11	11 19.37	+ 8 55.6	1.807	2.694	12.1	21.4
4 21	11 14.38	+ 8 58.5	1.903	2.707	15.3	21.6

210564 1999 TR_{195} 3 15.5 184°.62 0°.7/16.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.14	− 2 15.1	2.199	3.011	12.5	21.3
2 21	12 2.23	− 1 53.3	2.113	3.012	9.4	21.1
3 2	11 54.45	− 1 19.1	2.053	3.012	5.8	20.9
3 12	11 45.45	− 0 36.0	2.020	3.011	1.9	20.6
3 22	11 36.05	+ 0 11.2	2.018	3.009	2.5	20.7
4 1	11 27.18	+ 0 57.2	2.046	3.006	6.4	20.9
4 11	11 19.67	+ 1 36.9	2.101	3.003	10.0	21.1
4 21	11 14.06	+ 2 6.5	2.180	2.999	13.1	21.3

188985 2008 FD_{78} 3 15.5 240°.68 1°.1/16.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.58	− 3 48.2	1.822	2.645	14.2	21.1
2 21	12 0.00	− 3 20.2	1.737	2.640	10.8	20.9
3 2	11 53.29	− 2 35.4	1.675	2.635	6.7	20.6
3 12	11 45.16	− 1 37.8	1.639	2.629	2.4	20.3
3 22	11 36.54	− 0 33.4	1.632	2.623	2.8	20.3
4 1	11 28.49	+ 0 30.5	1.652	2.617	7.2	20.6
4 11	11 21.94	+ 1 26.9	1.699	2.611	11.3	20.8
4 21	11 17.55	+ 2 10.6	1.767	2.605	14.9	21.0

504046 2005 VB_{127} 3 15.5 201°.10 0°.7/16.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.37	− 3 56.0	2.600	3.412	10.8	22.1
2 21	11 56.31	− 3 13.9	2.513	3.411	8.1	21.9
3 2	11 50.84	− 2 19.3	2.451	3.409	5.0	21.7
3 12	11 44.47	− 1 15.5	2.418	3.408	1.7	21.5
3 22	11 37.83	− 0 7.5	2.415	3.406	2.0	21.5
4 1	11 31.57	+ 0 59.6	2.442	3.404	5.3	21.7
4 11	11 26.32	+ 2 0.7	2.496	3.402	8.4	21.9
4 21	11 22.52	+ 2 51.9	2.575	3.400	11.1	22.1

7413 Galibina 3 15.5 159°.81 0°.1/15.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 2.84	+ 0 7.0	2.840	3.658	9.8	19.1
2 21	11 57.95	+ 0 38.7	2.760	3.664	7.2	19.0
3 2	11 51.74	+ 1 18.7	2.707	3.670	4.3	18.8
3 12	11 44.71	+ 2 3.7	2.683	3.675	1.1	18.5
3 22	11 37.45	+ 2 49.7	2.690	3.679	2.1	18.6
4 1	11 30.61	+ 3 32.6	2.727	3.683	5.2	18.8
4 11	11 24.73	+ 4 8.9	2.792	3.687	8.1	19.0
4 21	11 20.25	+ 4 36.0	2.882	3.691	10.5	19.2

310893 2003 QB_{114} 3 15.5 151°.63 1°.9/17.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.17	− 6 25.5	2.002	2.806	13.9	22.0
2 21	12 1.62	− 5 58.7	1.925	2.815	10.6	21.8
3 2	11 54.11	− 5 14.9	1.872	2.824	6.8	21.6
3 12	11 45.37	− 4 17.4	1.846	2.832	3.0	21.4
3 22	11 36.28	− 3 11.8	1.849	2.840	2.7	21.4
4 1	11 27.82	− 2 4.8	1.882	2.846	6.5	21.6
4 11	11 20.84	− 1 3.1	1.941	2.852	10.2	21.9
4 21	11 15.90	− 0 11.8	2.025	2.857	13.4	22.1

177923 2005 SL_{245} 3 15.5 239°.36 0°.1/15.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.00	− 0 36.3	2.699	3.518	10.2	21.2
2 21	11 57.49	− 0 7.8	2.605	3.509	7.6	21.0
3 2	11 51.56	+ 0 30.3	2.537	3.499	4.6	20.8
3 12	11 44.68	+ 1 14.6	2.497	3.489	1.3	20.6
3 22	11 37.48	+ 2 1.3	2.488	3.479	2.2	20.6
4 1	11 30.64	+ 2 45.8	2.509	3.468	5.5	20.8
4 11	11 24.77	+ 3 24.1	2.558	3.457	8.5	21.0
4 21	11 20.33	+ 3 53.2	2.631	3.446	11.2	21.2

190655 2000 YT_{25} 3 15.5 138°.86 2°.1/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.39	− 6 18.8	2.113	2.917	13.2	20.3
2 21	12 0.26	− 6 10.2	2.034	2.923	10.2	20.1
3 2	11 53.29	− 5 46.3	1.978	2.929	6.7	19.9
3 12	11 45.15	− 5 9.8	1.949	2.934	3.2	19.7
3 22	11 36.67	− 4 24.9	1.950	2.939	2.8	19.7
4 1	11 28.74	− 3 37.1	1.979	2.944	6.1	19.9
4 11	11 22.18	− 2 52.0	2.035	2.949	9.6	20.1
4 21	11 17.51	− 2 14.2	2.115	2.953	12.7	20.3

320591 2008 BD_{25} 3 15.5 146°.78 0°.1/15.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.83	− 0 42.2	1.984	2.809	13.2	21.7
2 21	12 1.35	− 0 0.9	1.912	2.819	9.7	21.5
3 2	11 53.94	+ 0 53.2	1.864	2.828	5.8	21.3
3 12	11 45.32	+ 1 55.0	1.845	2.837	1.5	21.0
3 22	11 36.39	+ 2 58.4	1.855	2.845	2.8	21.1
4 1	11 28.11	+ 3 56.7	1.894	2.852	7.0	21.4
4 11	11 21.32	+ 4 44.4	1.959	2.859	10.7	21.6
4 21	11 16.55	+ 5 18.3	2.048	2.865	13.9	21.8

136256 2003 YS_{31} 3 15.5 193°.87 1°.7/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.16	− 4 51.1	1.917	2.729	14.1	20.8
2 21	12 1.79	− 4 35.6	1.831	2.727	10.7	20.6
3 2	11 54.32	− 4 4.0	1.770	2.725	6.9	20.3
3 12	11 45.45	− 3 19.5	1.735	2.723	2.8	20.1
3 22	11 36.12	− 2 27.0	1.729	2.720	2.8	20.1
4 1	11 27.35	− 1 33.0	1.752	2.717	6.8	20.3
4 11	11 20.09	− 0 44.0	1.801	2.713	10.8	20.5
4 21	11 14.97	− 0 4.9	1.873	2.708	14.3	20.7

258947 2002 RT_{210} 3 15.5 247°.83 0°.2/15.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.02	− 2 9.8	1.760	2.592	14.3	21.0
2 21	11 59.68	− 1 21.6	1.674	2.584	10.7	20.8
3 2	11 53.16	− 0 16.0	1.611	2.575	6.4	20.5
3 12	11 45.16	+ 1 1.7	1.575	2.567	1.8	20.2
3 22	11 36.63	+ 2 24.0	1.567	2.558	3.1	20.2
4 1	11 28.66	+ 3 42.4	1.587	2.549	7.7	20.5
4 11	11 22.23	+ 4 49.2	1.632	2.539	12.0	20.7
4 21	11 18.00	+ 5 39.4	1.700	2.530	15.7	20.9

423565 2005 UG_{469} 3 15.5 170°.44 0°.2/15.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.26	− 1 4.9	2.454	3.269	11.3	23.1
2 21	12 0.65	− 0 37.1	2.372	3.273	8.4	22.9
3 2	11 53.43	+ 0 1.1	2.316	3.277	5.0	22.7
3 12	11 45.18	+ 0 46.2	2.289	3.280	1.4	22.5
3 22	11 36.64	+ 1 33.7	2.293	3.283	2.3	22.5
4 1	11 28.58	+ 2 18.6	2.326	3.285	5.9	22.8
4 11	11 21.72	+ 2 56.8	2.388	3.286	9.1	23.0
4 21	11 16.53	+ 3 25.1	2.474	3.286	11.9	23.2

228887 2003 QR_{31} 3 15.5 219°.93 1°.1/16.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.36	− 3 31.1	2.180	2.995	12.5	20.9
2 21	11 59.52	− 3 10.1	2.091	2.990	9.4	20.7
3 2	11 52.89	− 2 35.6	2.027	2.985	5.9	20.5
3 12	11 45.06	− 1 50.9	1.991	2.980	2.2	20.2
3 22	11 36.83	− 1 0.4	1.983	2.974	2.4	20.2
4 1	11 29.08	− 0 9.9	2.005	2.968	6.2	20.5
4 11	11 22.58	+ 0 35.2	2.053	2.962	9.8	20.7
4 21	11 17.91	+ 1 10.7	2.126	2.956	13.0	20.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
27314 Janemcdonald			3 15.5 281°.78		3°.8/13.0 18	
	h m	° ′			°	m
2 11	12 10.20	+ 8 36.8	1.352	2.212	16.1	18.5
2 21	12 4.85	+ 9 12.4	1.276	2.202	11.9	18.3
3 2	11 56.50	+ 9 55.0	1.222	2.192	7.2	18.0
3 12	11 46.09	+10 36.3	1.194	2.181	3.8	17.7
3 22	11 34.96	+11 7.5	1.191	2.171	6.4	17.9
4 1	11 24.67	+11 21.5	1.213	2.161	11.3	18.1
4 11	11 16.58	+11 14.5	1.258	2.150	15.9	18.3
4 21	11 11.49	+10 46.5	1.322	2.140	20.0	18.6
275360 2011 AS_{32}			3 15.5 106°.96		1°.2/14.4 18	
2 11	12 6.70	+ 2 55.0	1.892	2.730	13.2	21.7
2 21	12 1.28	+ 3 32.8	1.828	2.744	9.6	21.5
3 2	11 53.89	+ 4 20.1	1.789	2.757	5.6	21.3
3 12	11 45.31	+ 5 11.3	1.778	2.770	1.6	21.1
3 22	11 36.47	+ 6 0.2	1.795	2.782	3.5	21.2
4 1	11 28.36	+ 6 40.9	1.841	2.794	7.5	21.5
4 11	11 21.81	+ 7 9.0	1.912	2.806	11.2	21.7
4 21	11 17.34	+ 7 22.7	2.006	2.818	14.3	22.0
464669 2001 SE_{314}			3 15.5 235°.37		2°.0/13.5 17	
2 11	12 6.00	+ 4 56.5	2.071	2.911	12.1	21.9
2 21	12 0.87	+ 5 45.2	1.982	2.899	8.9	21.7
3 2	11 53.76	+ 6 42.9	1.918	2.886	5.2	21.4
3 12	11 45.31	+ 7 43.8	1.883	2.873	2.1	21.2
3 22	11 36.38	+ 8 41.5	1.876	2.859	4.1	21.3
4 1	11 27.93	+ 9 29.6	1.898	2.844	8.0	21.5
4 11	11 20.83	+10 3.7	1.947	2.829	11.6	21.7
4 21	11 15.70	+10 21.4	2.017	2.814	14.8	21.9
43038 1999 VV_{44}			3 15.5 247°.82		0°.8/16.2 17	
2 11	12 9.07	− 1 40.1	1.911	2.731	13.8	19.6
2 21	12 3.38	− 1 30.2	1.811	2.714	10.5	19.3
3 2	11 55.39	− 1 7.0	1.735	2.696	6.5	19.0
3 12	11 45.78	− 0 33.7	1.687	2.677	2.1	18.7
3 22	11 35.50	+ 0 5.1	1.667	2.658	2.8	18.7
4 1	11 25.64	+ 0 43.4	1.676	2.638	7.4	19.0
4 11	11 17.28	+ 1 15.5	1.712	2.618	11.6	19.2
4 21	11 11.15	+ 1 37.0	1.770	2.597	15.3	19.4
35564 1998 GY_5			3 15.5 1°.85		4°.5/10.7 18	
2 11	12 0.79	+ 8 28.8	1.578	2.445	13.8	18.1
2 21	11 57.41	+10 13.3	1.514	2.444	10.0	17.9
3 2	11 51.81	+12 6.9	1.475	2.444	6.2	17.7
3 12	11 44.80	+13 58.7	1.462	2.444	4.6	17.6
3 22	11 37.37	+15 37.7	1.477	2.445	7.1	17.7
4 1	11 30.64	+16 54.8	1.517	2.446	11.0	17.9
4 11	11 25.58	+17 45.1	1.580	2.447	14.7	18.2
4 21	11 22.77	+18 8.0	1.662	2.449	17.8	18.4
174514 2003 BZ_{91}			3 15.6 309°.40		6°.0/ 8.7 18	
2 11	12 3.49	+17 55.1	2.096	2.954	11.2	19.8
2 21	11 59.01	+19 3.2	2.023	2.941	8.6	19.6
3 2	11 52.63	+20 9.4	1.975	2.928	6.5	19.4
3 12	11 45.01	+21 6.0	1.955	2.915	6.1	19.4
3 22	11 36.99	+21 46.4	1.961	2.903	7.9	19.4
4 1	11 29.52	+22 6.1	1.994	2.890	10.6	19.6
4 11	11 23.42	+22 3.4	2.050	2.878	13.3	19.7
4 21	11 19.27	+21 39.5	2.125	2.867	15.8	19.9
195507 2002 GN_{182}			3 15.6 267°.72		2°.8/12.8 18	
2 11	12 4.88	+ 7 30.6	1.927	2.777	12.4	20.8
2 21	12 0.09	+ 8 18.4	1.849	2.771	9.1	20.6
3 2	11 53.29	+ 9 12.7	1.797	2.765	5.4	20.3
3 12	11 45.19	+10 7.1	1.772	2.760	2.8	20.1
3 22	11 36.68	+10 54.9	1.775	2.754	4.9	20.3
4 1	11 28.75	+11 30.4	1.807	2.748	8.6	20.5
4 11	11 22.28	+11 49.6	1.862	2.742	12.2	20.7
4 21	11 17.87	+11 51.4	1.940	2.737	15.3	20.9
498634 2008 RT_{139}			3 15.6 169°.63		1°.0/14.3 17	
2 11	12 4.89	+ 3 6.7	2.632	3.459	10.2	22.8
2 21	11 59.55	+ 3 46.1	2.554	3.464	7.5	22.6
3 2	11 52.74	+ 4 32.8	2.502	3.467	4.3	22.4
3 12	11 45.01	+ 5 22.5	2.479	3.471	1.3	22.2
3 22	11 37.03	+ 6 10.7	2.488	3.474	2.8	22.3
4 1	11 29.50	+ 6 53.1	2.526	3.476	6.0	22.5
4 11	11 23.06	+ 7 25.9	2.592	3.477	9.0	22.7
4 21	11 18.16	+ 7 47.2	2.683	3.478	11.5	22.9
313724 2003 UF_{152}			3 15.6 153°.13		0°.2/15.7 18	
2 11	12 9.19	− 0 10.8	1.836	2.663	14.0	21.1
2 21	12 3.26	+ 0 6.3	1.762	2.669	10.4	20.9
3 2	11 55.17	+ 0 35.6	1.711	2.675	6.2	20.7
3 12	11 45.69	+ 1 12.7	1.688	2.680	1.7	20.4
3 22	11 35.82	+ 1 52.2	1.694	2.685	2.9	20.5
4 1	11 26.66	+ 2 28.3	1.729	2.689	7.3	20.8
4 11	11 19.15	+ 2 55.7	1.789	2.693	11.3	21.0
4 21	11 13.88	+ 3 11.4	1.872	2.696	14.7	21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
389223 2009 DL_{128}			3 15.6 69°.53		1°.7/17.3 17	
	h m	° ′			°	m
2 11	12 5.08	− 4 23.7	2.247	3.056	12.4	21.1
2 21	11 59.98	− 4 26.6	2.163	3.057	9.4	20.9
3 2	11 53.13	− 4 17.1	2.104	3.058	6.1	20.7
3 12	11 45.14	− 3 57.5	2.072	3.059	2.7	20.5
3 22	11 36.81	− 3 31.2	2.069	3.060	2.5	20.5
4 1	11 28.97	− 3 2.5	2.096	3.061	5.9	20.7
4 11	11 22.39	− 2 36.1	2.149	3.062	9.3	20.9
4 21	11 17.59	− 2 15.7	2.227	3.063	12.3	21.1
429710 2011 HC_{100}			3 15.6 238°.20		3°.8/11.5 17	
2 11	12 4.45	+10 30.3	1.982	2.836	12.0	21.3
2 21	11 59.70	+11 30.5	1.911	2.834	8.8	21.1
3 2	11 53.03	+12 34.6	1.866	2.832	5.5	20.9
3 12	11 45.12	+13 35.5	1.849	2.831	3.8	20.8
3 22	11 36.87	+14 26.2	1.860	2.829	5.8	20.9
4 1	11 29.22	+15 1.4	1.898	2.827	9.1	21.1
4 11	11 23.01	+15 18.0	1.961	2.825	12.4	21.3
4 21	11 18.79	+15 15.7	2.044	2.823	15.2	21.4
467506 2007 CD_4			3 15.6 290°.62		7°.9/ 6.0 17	
2 11	12 2.97	+18 42.3	1.737	2.604	12.7	20.8
2 21	11 59.13	+20 49.4	1.663	2.583	10.0	20.6
3 2	11 52.95	+22 57.3	1.615	2.563	8.1	20.5
3 12	11 45.16	+24 53.8	1.593	2.542	8.4	20.4
3 22	11 36.73	+26 27.8	1.598	2.522	10.7	20.5
4 1	11 28.84	+27 31.5	1.627	2.501	13.8	20.6
4 11	11 22.58	+28 2.0	1.677	2.481	16.9	20.8
4 21	11 18.65	+28 1.0	1.743	2.460	19.6	20.9
129555 Armazones			3 15.6 155°.84		2°.1/17.6 18	
2 11	12 7.06	− 6 53.0	1.914	2.718	14.4	20.7
2 21	12 1.66	− 6 29.1	1.836	2.726	11.1	20.5
3 2	11 54.21	− 5 46.9	1.781	2.732	7.2	20.3
3 12	11 45.45	− 4 50.0	1.753	2.738	3.3	20.0
3 22	11 36.30	− 3 43.8	1.753	2.744	2.9	20.0
4 1	11 27.79	− 2 35.4	1.783	2.748	6.7	20.3
4 11	11 20.82	− 1 32.1	1.839	2.753	10.5	20.5
4 21	11 15.96	− 0 39.2	1.919	2.756	13.9	20.7
306888 2001 TH_{92}			3 15.6 169°.30		0°.5/16.0 16	
2 11	12 6.55	− 1 39.9	2.249	3.065	12.1	22.3
2 21	12 1.02	− 1 14.6	2.168	3.070	9.0	22.1
3 2	11 53.72	− 0 37.7	2.113	3.073	5.5	21.9
3 12	11 45.30	+ 0 7.2	2.085	3.076	1.7	21.6
3 22	11 36.56	+ 0 55.4	2.088	3.079	2.4	21.7
4 1	11 28.34	+ 1 41.4	2.120	3.080	6.2	22.0
4 11	11 21.42	+ 2 20.5	2.180	3.082	9.7	22.2
4 21	11 16.32	+ 2 49.4	2.263	3.082	12.7	22.4
503821 2017 KE_{16}			3 15.6 242°.38		3°.5/12.2 18	
2 11	12 6.37	+ 7 11.9	1.722	2.574	13.6	21.5
2 21	12 1.52	+ 8 27.2	1.638	2.561	9.9	21.3
3 2	11 54.33	+ 9 52.6	1.579	2.548	6.0	21.0
3 12	11 45.52	+11 19.7	1.548	2.534	3.5	20.8
3 22	11 36.11	+12 39.1	1.544	2.520	5.9	20.9
4 1	11 27.28	+13 42.4	1.568	2.505	10.1	21.1
4 11	11 20.08	+14 24.1	1.616	2.489	14.1	21.3
4 21	11 15.23	+14 42.7	1.684	2.473	17.5	21.5
264510 2001 QH_{216}			3 15.6 156°.45		0°.7/14.9 18	
2 11	12 7.06	+ 1 53.8	1.927	2.761	13.1	20.6
2 21	12 1.63	+ 2 21.7	1.852	2.764	9.7	20.4
3 2	11 54.18	+ 3 0.0	1.802	2.768	5.7	20.1
3 12	11 45.44	+ 3 43.7	1.779	2.771	1.5	19.9
3 22	11 36.33	+ 4 27.1	1.786	2.774	3.2	20.0
4 1	11 27.88	+ 5 4.5	1.820	2.777	7.4	20.3
4 11	11 20.94	+ 5 31.2	1.881	2.779	11.2	20.5
4 21	11 16.09	+ 5 44.7	1.964	2.781	14.4	20.7
336438 2008 UP_{281}			3 15.6 175°.97		0°.4/16.0 17	
2 11	12 3.96	− 1 42.1	2.268	3.088	11.9	21.7
2 21	11 59.13	− 1 14.7	2.186	3.089	8.9	21.5
3 2	11 52.61	− 0 35.5	2.129	3.090	5.4	21.3
3 12	11 45.01	+ 0 11.7	2.100	3.091	1.6	21.1
3 22	11 37.09	+ 1 2.1	2.100	3.091	2.4	21.1
4 1	11 29.66	+ 1 50.4	2.130	3.091	6.1	21.4
4 11	11 23.45	+ 2 31.8	2.187	3.091	9.5	21.6
4 21	11 18.97	+ 3 2.8	2.267	3.091	12.5	21.8
199827 2007 DE_{105}			3 15.6 311°.94		0°.2/15.7 18	
2 11	12 3.90	− 2 8.4	1.253	2.104	17.7	21.4
2 21	12 0.33	− 1 26.4	1.176	2.096	13.3	21.1
3 2	11 53.89	− 0 21.7	1.120	2.087	8.1	20.8
3 12	11 45.45	+ 0 59.3	1.087	2.079	2.2	20.4
3 22	11 36.27	+ 2 26.8	1.079	2.071	3.8	20.5
4 1	11 27.86	+ 3 49.0	1.097	2.063	9.7	20.8
4 11	11 21.54	+ 4 55.4	1.137	2.056	15.0	21.1
4 21	11 18.15	+ 5 40.1	1.196	2.049	19.5	21.3

36146 1999 RX_{181} 3 15.6 261°.59 0°.1/15.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 2.87	+ 0 16.5	2.595	3.418	10.5	19.6
2 21	11 58.25	+ 0 41.4	2.496	3.402	7.8	19.4
3 2	11 52.08	+ 1 15.6	2.422	3.386	4.7	19.2
3 12	11 44.88	+ 1 55.7	2.378	3.369	1.2	18.9
3 22	11 37.30	+ 2 37.9	2.363	3.353	2.3	19.0
4 1	11 30.06	+ 3 17.5	2.378	3.336	5.8	19.2
4 11	11 23.82	+ 3 50.6	2.420	3.319	9.0	19.3
4 21	11 19.11	+ 4 14.1	2.487	3.302	11.8	19.5

204362 2004 TW_{33} 3 15.6 81°.17 2°.8/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.61	+ 5 44.1	1.441	2.294	15.7	20.6
2 21	12 3.77	+ 6 41.1	1.395	2.318	11.3	20.3
3 2	11 55.47	+ 7 46.7	1.372	2.341	6.6	20.1
3 12	11 45.76	+ 8 52.2	1.375	2.365	2.9	20.0
3 22	11 35.89	+ 9 48.6	1.406	2.388	5.3	20.2
4 1	11 27.12	+10 29.2	1.463	2.410	9.7	20.5
4 11	11 20.46	+10 50.1	1.543	2.432	13.7	20.8
4 21	11 16.41	+10 51.2	1.644	2.454	17.0	21.0

334084 2001 QO_{110} 3 15.6 102°.28 2°.6/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.88	+ 7 52.7	2.474	3.318	10.2	20.8
2 21	11 58.10	+ 8 57.2	2.417	3.336	7.4	20.7
3 2	11 51.87	+10 6.0	2.387	3.354	4.4	20.5
3 12	11 44.79	+11 13.2	2.387	3.372	2.6	20.4
3 22	11 37.55	+12 13.3	2.417	3.390	4.3	20.5
4 1	11 30.85	+13 1.7	2.475	3.407	7.1	20.8
4 11	11 25.31	+13 35.6	2.560	3.424	9.8	21.0
4 21	11 21.34	+13 54.1	2.667	3.441	12.2	21.1

94518 2001 UQ_{109} 3 15.6 145°.54 1°.9/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.75	− 6 30.4	1.692	2.506	15.6	20.4
2 21	12 1.65	− 5 55.2	1.618	2.514	11.9	20.2
3 2	11 54.30	− 4 59.4	1.566	2.522	7.6	19.9
3 12	11 45.49	− 3 47.4	1.541	2.528	3.2	19.7
3 22	11 36.28	− 2 26.2	1.544	2.535	3.0	19.7
4 1	11 27.79	− 1 4.6	1.575	2.541	7.3	19.9
4 11	11 21.02	+ 0 9.1	1.631	2.546	11.5	20.2
4 21	11 16.58	+ 1 8.8	1.711	2.551	15.2	20.4

351209 2004 JY_{32} 3 15.6 250°.58 10°.5/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.38	+41 21.7	2.656	3.444	11.3	20.6
2 21	12 4.00	+42 43.8	2.612	3.431	10.6	20.5
3 2	11 55.54	+43 48.4	2.592	3.418	10.5	20.5
3 12	11 45.81	+44 28.6	2.595	3.405	11.1	20.5
3 22	11 35.78	+44 40.0	2.621	3.392	12.2	20.6
4 1	11 26.49	+44 21.8	2.668	3.379	13.4	20.7
4 11	11 18.82	+43 36.1	2.732	3.365	14.7	20.7
4 21	11 13.33	+42 27.0	2.811	3.351	15.9	20.8

45223 1999 XF_{200} 3 15.6 209°.18 1°.9/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.99	− 5 3.0	2.010	2.817	13.7	19.3
2 21	12 2.40	− 4 55.8	1.920	2.812	10.5	19.0
3 2	11 54.72	− 4 33.5	1.853	2.806	6.8	18.8
3 12	11 45.64	− 3 58.6	1.813	2.800	3.0	18.5
3 22	11 36.04	− 3 15.5	1.803	2.793	2.8	18.5
4 1	11 26.97	− 2 29.6	1.821	2.785	6.7	18.7
4 11	11 19.33	− 1 47.2	1.866	2.777	10.5	18.9
4 21	11 13.77	− 1 13.0	1.935	2.768	13.9	19.1

85332 1995 SH_{4} 3 15.6 117°.18 5°.8/22.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.43	−19 32.5	2.643	3.353	13.2	20.8
2 21	12 3.66	−20 6.1	2.569	3.377	11.1	20.7
3 2	11 55.21	−20 20.9	2.517	3.400	8.8	20.6
3 12	11 45.72	−20 16.2	2.491	3.423	6.8	20.5
3 22	11 35.96	−19 53.4	2.494	3.445	5.8	20.4
4 1	11 26.76	−19 16.1	2.527	3.466	6.6	20.5
4 11	11 18.85	−18 29.7	2.588	3.487	8.5	20.7
4 21	11 12.70	−17 39.9	2.674	3.506	10.6	20.8

33035 Pareschi 3 15.6 165°.74 3°.6/18.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.66	− 9 39.6	1.814	2.607	15.5	19.4
2 21	12 3.02	− 9 38.7	1.733	2.612	12.2	19.2
3 2	11 55.13	− 9 17.7	1.674	2.616	8.4	19.0
3 12	11 45.74	− 8 38.1	1.640	2.619	4.8	18.8
3 22	11 35.88	− 7 44.4	1.635	2.622	3.9	18.7
4 1	11 26.68	− 6 43.3	1.659	2.624	7.1	18.9
4 11	11 19.13	− 5 42.5	1.708	2.626	10.9	19.1
4 21	11 13.87	− 4 48.7	1.781	2.627	14.4	19.4

415333 2013 HX_{57} 3 15.6 271°.16 1°.2/16.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.89	− 2 46.0	1.700	2.525	15.0	21.9
2 21	12 2.85	− 2 34.5	1.598	2.503	11.5	21.6
3 2	11 55.28	− 2 6.8	1.519	2.480	7.2	21.3
3 12	11 45.85	− 1 25.9	1.466	2.456	2.6	21.0
3 22	11 35.59	− 0 37.1	1.440	2.432	3.1	20.9
4 1	11 25.73	+ 0 12.7	1.443	2.407	8.0	21.2
4 11	11 17.48	+ 0 56.1	1.470	2.382	12.7	21.4
4 21	11 11.68	+ 1 27.5	1.519	2.357	16.9	21.6

5965 1990 SV_{15} 3 15.6 115°.49 1°.4/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.01	− 4 41.1	1.971	2.788	13.6	17.5
2 21	11 59.39	− 4 15.1	1.894	2.793	10.3	17.3
3 2	11 52.86	− 3 33.2	1.840	2.798	6.5	17.1
3 12	11 45.12	− 2 39.3	1.814	2.802	2.5	16.8
3 22	11 37.03	− 1 38.8	1.816	2.807	2.6	16.8
4 1	11 29.53	− 0 38.3	1.846	2.811	6.5	17.1
4 11	11 23.43	+ 0 16.0	1.903	2.816	10.2	17.3
4 21	11 19.30	+ 0 59.3	1.983	2.820	13.5	17.5

502268 2015 BH_{124} 3 15.6 23°.39 4°.6/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.23	+10 6.1	1.654	2.519	13.4	21.4
2 21	11 58.35	+11 30.3	1.594	2.523	9.7	21.2
3 2	11 52.33	+12 59.9	1.560	2.527	6.2	21.0
3 12	11 44.99	+14 25.4	1.552	2.533	4.6	20.9
3 22	11 37.30	+15 37.7	1.571	2.538	6.9	21.0
4 1	11 30.35	+16 29.8	1.615	2.544	10.5	21.2
4 11	11 25.05	+16 58.0	1.683	2.550	13.9	21.5
4 21	11 21.94	+17 2.6	1.770	2.557	16.9	21.7

299305 2005 QL_{49} 3 15.6 202°.57 1°.6/13.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.33	+ 5 17.4	2.938	3.773	9.1	21.8
2 21	11 56.90	+ 6 9.9	2.854	3.768	6.6	21.7
3 2	11 51.19	+ 7 8.3	2.797	3.764	3.8	21.5
3 12	11 44.66	+ 8 8.4	2.770	3.759	1.6	21.3
3 22	11 37.87	+ 9 5.5	2.773	3.754	3.1	21.4
4 1	11 31.43	+ 9 55.4	2.807	3.749	5.9	21.6
4 11	11 25.89	+10 34.9	2.868	3.743	8.6	21.7
4 21	11 21.67	+11 2.1	2.953	3.736	10.9	21.9

372538 2009 TF_{7} 3 15.6 197°.94 0°.6/16.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.14	− 2 3.9	2.421	3.233	11.5	22.4
2 21	12 0.68	− 1 38.8	2.331	3.229	8.6	22.2
3 2	11 53.54	− 1 2.2	2.266	3.225	5.3	22.0
3 12	11 45.31	− 0 17.5	2.230	3.220	1.7	21.7
3 22	11 36.70	+ 0 30.9	2.224	3.215	2.3	21.7
4 1	11 28.52	+ 1 18.0	2.248	3.208	5.9	22.0
4 11	11 21.52	+ 1 59.2	2.300	3.201	9.3	22.2
4 21	11 16.22	+ 2 30.9	2.377	3.194	12.2	22.3

283548 2001 UW_{131} 3 15.6 127°.50 3°.6/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.27	+ 9 5.4	1.750	2.596	13.7	21.6
2 21	12 4.75	+10 1.4	1.694	2.613	10.0	21.4
3 2	11 56.01	+11 1.9	1.663	2.629	6.0	21.2
3 12	11 45.94	+11 58.9	1.660	2.644	3.6	21.1
3 22	11 35.65	+12 45.2	1.685	2.659	5.7	21.2
4 1	11 26.27	+13 15.3	1.738	2.673	9.4	21.5
4 11	11 18.73	+13 26.6	1.816	2.686	12.9	21.7
4 21	11 13.57	+13 19.4	1.915	2.698	15.9	21.9

296252 2009 DK_{23} 3 15.6 74°.40 1°.2/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.70	+ 2 40.0	2.157	2.995	11.8	20.9
2 21	11 58.15	+ 3 34.2	2.098	3.014	8.5	20.7
3 2	11 51.99	+ 4 37.1	2.064	3.032	4.9	20.5
3 12	11 44.86	+ 5 43.4	2.059	3.051	1.5	20.3
3 22	11 37.55	+ 6 46.7	2.083	3.069	3.3	20.5
4 1	11 30.86	+ 7 41.5	2.136	3.087	6.8	20.7
4 11	11 25.45	+ 8 23.5	2.215	3.106	10.1	20.9
4 21	11 21.78	+ 8 50.8	2.317	3.124	12.8	21.2

504332 2007 TL_{103} 3 15.6 199°.97 4°.2/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.39	+13 59.9	2.356	3.205	10.5	22.0
2 21	12 0.13	+14 48.9	2.286	3.203	7.8	21.8
3 2	11 53.19	+15 38.0	2.241	3.202	5.2	21.6
3 12	11 45.20	+16 21.2	2.225	3.200	4.2	21.5
3 22	11 36.93	+16 53.4	2.238	3.198	5.8	21.6
4 1	11 29.19	+17 10.7	2.280	3.195	8.5	21.8
4 11	11 22.72	+17 11.3	2.346	3.193	11.2	22.0
4 21	11 18.00	+16 55.6	2.433	3.190	13.6	22.1

414140 2007 VL_{239} 3 15.6 110°.57 1°.2/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.11	− 4 17.5	1.724	2.544	15.0	22.5
2 21	12 1.80	− 3 47.3	1.658	2.559	11.3	22.3
3 2	11 54.33	− 2 59.8	1.614	2.573	7.1	22.1
3 12	11 45.52	− 1 59.6	1.598	2.587	2.6	21.9
3 22	11 36.40	− 0 53.5	1.609	2.601	2.8	21.9
4 1	11 28.06	+ 0 11.0	1.649	2.614	7.2	22.2
4 11	11 21.42	+ 1 6.8	1.715	2.627	11.2	22.5
4 21	11 17.05	+ 1 49.4	1.803	2.639	14.7	22.7

99341 2001 XP_{30} 3 15.6 4°.73 4°.2/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.84	+ 8 27.8	1.153	2.028	17.2	18.2
2 21	12 1.80	+ 9 11.2	1.093	2.027	12.6	17.9
3 2	11 54.73	+10 2.4	1.055	2.027	7.6	17.6
3 12	11 45.68	+10 51.6	1.040	2.028	4.2	17.4
3 22	11 36.11	+11 28.8	1.049	2.030	6.9	17.6
4 1	11 27.60	+11 46.3	1.082	2.033	11.8	17.8
4 11	11 21.46	+11 40.3	1.136	2.037	16.5	18.1
4 21	11 18.37	+11 11.6	1.207	2.042	20.5	18.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
260056 2004 HC_{23}			3 15.6	23°.02	6°.6/11.5 18	
	h m	° ′			°	m
2 11	12 12.29	+16 40.4	1.362	2.225	15.8	20.3
2 21	12 6.09	+17 8.3	1.308	2.231	11.9	20.0
3 2	11 57.04	+17 31.5	1.276	2.237	8.2	19.9
3 12	11 46.25	+17 41.0	1.269	2.244	6.6	19.8
3 22	11 35.17	+17 30.3	1.288	2.252	8.5	19.9
4 1	11 25.30	+16 56.5	1.332	2.260	12.2	20.1
4 11	11 17.79	+16 0.6	1.397	2.269	16.0	20.4
4 21	11 13.25	+14 46.6	1.482	2.278	19.2	20.6
10094 Eijikato			3 15.6	149°.50	0°.3/15.3 18	
2 11	12 11.05	+ 2 14.9	2.068	2.892	12.8	16.7
2 21	12 4.42	+ 2 18.7	1.993	2.899	9.4	16.5
3 2	11 55.79	+ 2 30.6	1.942	2.906	5.6	16.3
3 12	11 45.91	+ 2 47.0	1.921	2.913	1.4	16.0
3 22	11 35.70	+ 3 3.6	1.929	2.919	2.8	16.1
4 1	11 26.16	+ 3 16.4	1.967	2.924	6.9	16.4
4 11	11 18.15	+ 3 21.8	2.032	2.929	10.5	16.6
4 21	11 12.23	+ 3 17.9	2.121	2.934	13.6	16.9
418080 2007 VL_{285}			3 15.6	294°.78	6°.1/10.5 17	
2 11	12 7.10	+13 42.3	1.478	2.344	14.6	21.0
2 21	12 2.40	+14 52.2	1.405	2.331	11.0	20.8
3 2	11 55.00	+16 5.0	1.355	2.318	7.5	20.5
3 12	11 45.77	+17 10.2	1.330	2.306	6.2	20.4
3 22	11 35.91	+17 58.0	1.331	2.293	8.5	20.5
4 1	11 26.81	+18 21.3	1.357	2.281	12.4	20.7
4 11	11 19.68	+18 17.4	1.405	2.269	16.4	20.9
4 21	11 15.27	+17 47.7	1.471	2.257	19.8	21.1
129751 1999 CP_{145}			3 15.6	111°.92	0°.3/15.9 18	
2 11	12 9.28	− 1 30.3	1.610	2.440	15.5	21.0
2 21	12 3.49	− 1 0.8	1.547	2.456	11.5	20.8
3 2	11 55.37	− 0 16.0	1.508	2.471	6.9	20.6
3 12	11 45.80	+ 0 38.7	1.495	2.486	2.0	20.3
3 22	11 35.93	+ 1 36.3	1.510	2.501	3.1	20.4
4 1	11 26.95	+ 2 29.3	1.552	2.515	7.8	20.7
4 11	11 19.84	+ 3 11.3	1.621	2.528	12.1	21.0
4 21	11 15.19	+ 3 38.8	1.710	2.541	15.6	21.2
100441 1996 PZ_{7}			3 15.6	181°.15	0°.3/15.8 18	
2 11	12 9.67	− 1 36.9	1.661	2.488	15.2	20.8
2 21	12 3.92	− 1 2.5	1.583	2.490	11.4	20.6
3 2	11 55.74	− 0 11.9	1.528	2.491	6.9	20.3
3 12	11 45.94	+ 0 49.8	1.500	2.491	1.9	20.0
3 22	11 35.63	+ 1 55.3	1.500	2.490	3.2	20.1
4 1	11 26.04	+ 2 56.8	1.528	2.489	8.1	20.4
4 11	11 18.25	+ 3 47.0	1.582	2.487	12.5	20.6
4 21	11 12.93	+ 4 21.9	1.657	2.484	16.2	20.8
239465 2007 TZ_{373}			3 15.6	115°.94	0°.2/15.8 17	
2 11	12 6.25	+ 0 26.4	2.184	3.009	12.1	20.1
2 21	12 0.86	+ 0 32.5	2.104	3.011	9.0	19.9
3 2	11 53.68	+ 0 48.0	2.050	3.013	5.4	19.7
3 12	11 45.35	+ 1 9.6	2.023	3.015	1.5	19.4
3 22	11 36.69	+ 1 33.1	2.026	3.017	2.5	19.5
4 1	11 28.57	+ 1 54.4	2.058	3.019	6.3	19.8
4 11	11 21.78	+ 2 9.5	2.117	3.021	9.8	20.0
4 21	11 16.84	+ 2 15.7	2.199	3.023	12.8	20.2
123155 2000 TL_{40}			3 15.6	278°.18	4°.5/11.6 18	
2 11	12 5.51	+ 8 52.9	1.463	2.327	14.8	19.1
2 21	12 1.17	+10 11.9	1.391	2.319	10.9	18.8
3 2	11 54.24	+11 40.0	1.342	2.311	6.8	18.6
3 12	11 45.56	+13 6.9	1.319	2.303	4.5	18.4
3 22	11 36.29	+14 21.8	1.323	2.296	7.1	18.5
4 1	11 27.78	+15 15.9	1.352	2.288	11.4	18.8
4 11	11 21.17	+15 44.3	1.404	2.280	15.6	19.0
4 21	11 17.18	+15 46.7	1.473	2.272	19.2	19.2
35716 1999 FY_{32}			3 15.6	59°.43	2°.1/17.0 18	
2 11	12 10.05	− 3 29.1	1.398	2.229	17.3	18.0
2 21	12 4.53	− 3 43.2	1.328	2.234	13.2	17.7
3 2	11 56.23	− 3 40.1	1.279	2.238	8.4	17.5
3 12	11 46.09	− 3 22.4	1.255	2.243	3.5	17.2
3 22	11 35.39	− 2 55.4	1.257	2.248	3.5	17.2
4 1	11 25.60	− 2 25.6	1.285	2.253	8.4	17.5
4 11	11 17.92	− 2 0.3	1.338	2.258	13.1	17.8
4 21	11 13.09	− 1 44.5	1.411	2.263	17.1	18.0
106754 2000 XZ_{4}			3 15.6	156°.49	3°.8/20.4 18	
2 11	12 3.29	−13 18.1	2.781	3.539	11.6	20.1
2 21	11 58.44	−13 25.1	2.692	3.543	9.3	19.9
3 2	11 52.15	−13 17.0	2.626	3.547	6.9	19.8
3 12	11 44.94	−12 54.5	2.588	3.551	4.6	19.6
3 22	11 37.44	−12 20.0	2.578	3.554	3.8	19.6
4 1	11 30.32	−11 37.0	2.598	3.557	5.3	19.7
4 11	11 24.21	−10 50.4	2.646	3.560	7.7	19.8
4 21	11 19.57	−10 4.8	2.719	3.563	10.1	20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
144675 2004 FZ_{132}			3 15.6	82°.22	2°.9/11.9 18	
	h m	° ′			°	m
2 11	12 1.07	+ 6 38.6	2.174	3.024	11.2	19.7
2 21	11 57.05	+ 8 6.2	2.110	3.032	8.1	19.5
3 2	11 51.40	+ 9 40.9	2.072	3.040	4.8	19.3
3 12	11 44.74	+11 15.6	2.063	3.049	2.9	19.2
3 22	11 37.83	+12 42.6	2.083	3.057	4.8	19.3
4 1	11 31.45	+13 55.6	2.132	3.065	8.1	19.5
4 11	11 26.30	+14 50.4	2.207	3.073	11.1	19.7
4 21	11 22.87	+15 25.5	2.303	3.081	13.7	19.9
128362 2004 HW_{19}			3 15.6	208°.74	1°.1/16.6 18	
2 11	12 7.11	− 4 24.2	1.686	2.507	15.3	20.2
2 21	12 2.09	− 3 45.7	1.600	2.502	11.6	19.9
3 2	11 54.69	− 2 47.5	1.537	2.497	7.3	19.7
3 12	11 45.68	− 1 34.3	1.501	2.491	2.6	19.3
3 22	11 36.10	− 0 13.2	1.493	2.484	3.0	19.4
4 1	11 27.13	+ 1 6.9	1.513	2.477	7.8	19.6
4 11	11 19.84	+ 2 17.6	1.558	2.469	12.2	19.9
4 21	11 14.94	+ 3 13.0	1.626	2.461	16.1	20.1
368583 2004 QX_{4}			3 15.6	157°.04	3°.9/19.8 17	
2 11	12 7.24	−12 5.2	2.384	3.150	13.0	21.7
2 21	12 1.53	−12 17.5	2.298	3.157	10.4	21.6
3 2	11 54.06	−12 13.2	2.236	3.163	7.6	21.4
3 12	11 45.47	−11 53.0	2.201	3.169	4.9	21.2
3 22	11 36.52	−11 19.6	2.195	3.174	4.0	21.2
4 1	11 28.06	−10 37.2	2.219	3.179	6.0	21.3
4 11	11 20.85	− 9 51.3	2.270	3.183	8.8	21.5
4 21	11 15.43	− 9 7.3	2.346	3.187	11.6	21.7
467791 2009 WG_{263}			3 15.6	86°.86	2°.9/18.7 18	
2 11	12 4.38	− 9 23.0	1.966	2.763	14.3	21.4
2 21	11 59.60	− 9 4.1	1.897	2.779	11.2	21.2
3 2	11 52.96	− 8 26.1	1.851	2.795	7.6	21.0
3 12	11 45.16	− 7 32.0	1.831	2.811	4.1	20.8
3 22	11 37.10	− 6 27.0	1.839	2.827	3.2	20.8
4 1	11 29.69	− 5 17.8	1.875	2.842	6.3	21.0
4 11	11 23.74	− 4 11.5	1.939	2.858	9.7	21.3
4 21	11 19.75	− 3 13.9	2.026	2.873	12.9	21.5
306520 1999 WS_{19}			3 15.6	129°.61	0°.2/15.8 18	
2 11	12 7.82	− 1 25.5	1.919	2.742	13.6	21.9
2 21	12 2.13	− 0 49.6	1.851	2.757	10.1	21.7
3 2	11 54.46	− 0 0.4	1.808	2.771	6.1	21.5
3 12	11 45.57	+ 0 57.3	1.793	2.784	1.7	21.2
3 22	11 36.40	+ 1 57.2	1.806	2.797	2.8	21.3
4 1	11 27.95	+ 2 52.8	1.849	2.809	7.0	21.6
4 11	11 21.05	+ 3 38.6	1.918	2.820	10.8	21.8
4 21	11 16.25	+ 4 11.0	2.010	2.831	13.9	22.1
375287 2008 KM_{40}			3 15.6	246°.37	3°.8/11.3 17	
2 11	12 5.11	+10 8.2	2.080	2.930	11.6	21.4
2 21	12 0.27	+11 19.0	1.995	2.916	8.6	21.2
3 2	11 53.46	+12 35.3	1.936	2.901	5.4	21.0
3 12	11 45.34	+13 49.9	1.905	2.886	3.8	20.9
3 22	11 36.74	+14 55.3	1.903	2.870	5.9	21.0
4 1	11 28.60	+15 45.3	1.929	2.854	9.2	21.1
4 11	11 21.81	+16 16.1	1.979	2.837	12.5	21.3
4 21	11 16.98	+16 26.5	2.051	2.820	15.5	21.5
313675 2003 SS_{227}			3 15.6	179°.13	0°.1/15.5 18	
2 11	12 8.28	− 0 8.1	2.137	2.957	12.5	21.6
2 21	12 2.42	+ 0 23.0	2.055	2.960	9.3	21.4
3 2	11 54.64	+ 1 5.4	1.998	2.961	5.5	21.2
3 12	11 45.64	+ 1 54.9	1.970	2.962	1.5	20.9
3 22	11 36.26	+ 2 46.2	1.972	2.962	2.7	21.0
4 1	11 27.44	+ 3 33.6	2.003	2.961	6.7	21.3
4 11	11 20.01	+ 4 12.0	2.062	2.959	10.4	21.5
4 21	11 14.54	+ 4 38.4	2.144	2.956	13.5	21.7
366275 2013 AK_{59}			3 15.6	61°.40	3°.0/13.4 18	
2 11	12 8.19	+ 5 51.0	1.276	2.138	16.7	20.9
2 21	12 3.18	+ 6 40.9	1.221	2.149	12.2	20.6
3 2	11 55.38	+ 7 41.1	1.188	2.159	7.1	20.4
3 12	11 45.85	+ 8 42.4	1.180	2.170	3.1	20.2
3 22	11 35.95	+ 9 35.1	1.198	2.181	5.7	20.3
4 1	11 27.15	+10 11.2	1.241	2.193	10.6	20.6
4 11	11 20.59	+10 26.4	1.306	2.204	15.1	20.9
4 21	11 16.90	+10 20.1	1.390	2.216	18.8	21.2
379269 2009 UA_{88}			3 15.6	245°.99	6°.2/22.3 17	
2 11	12 3.51	−18 45.3	2.030	2.776	15.6	21.2
2 21	11 59.23	−18 47.6	1.932	2.768	13.1	21.0
3 2	11 52.92	−18 24.6	1.854	2.759	10.3	20.8
3 12	11 45.21	−17 35.9	1.801	2.750	7.5	20.6
3 22	11 36.97	−16 24.2	1.773	2.741	6.2	20.5
4 1	11 29.18	−14 55.3	1.774	2.731	7.4	20.6
4 11	11 22.77	−13 18.1	1.801	2.722	10.2	20.7
4 21	11 18.40	−11 41.4	1.852	2.712	13.3	20.9

328293 2008 GZ_{128} 3 15.6 269°.54 2°.6/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 7.17	+ 6 57.8	2.017	2.860	12.3	22.0
2 21	12 1.95	+ 7 43.1	1.917	2.835	9.0	21.8
3 2	11 54.58	+ 8 36.4	1.841	2.808	5.4	21.5
3 12	11 45.67	+ 9 31.5	1.793	2.781	2.6	21.3
3 22	11 36.11	+10 21.8	1.775	2.754	4.7	21.4
4 1	11 26.93	+11 1.1	1.784	2.726	8.7	21.5
4 11	11 19.12	+11 24.8	1.820	2.698	12.5	21.7
4 21	11 13.38	+11 30.9	1.876	2.669	15.9	21.9

118204 1995 MS_1 3 15.6 80°.73 8°.5/25.8 18

2 11	12 2.68	−26 3.3	1.887	2.593	17.9	20.3
2 21	11 58.71	−26 3.0	1.803	2.599	15.6	20.1
3 2	11 52.61	−25 30.5	1.737	2.605	12.9	19.9
3 12	11 45.11	−24 24.4	1.692	2.612	10.3	19.8
3 22	11 37.20	−22 47.3	1.673	2.618	8.6	19.7
4 1	11 29.93	−20 46.4	1.680	2.625	8.9	19.7
4 11	11 24.26	−18 32.9	1.713	2.631	10.8	19.8
4 21	11 20.78	−16 18.1	1.770	2.637	13.5	20.0

363340 2002 PX_{197} 3 15.6 214°.58 0°.2/15.8 16

2 11	12 6.08	− 1 46.1	2.033	2.855	13.0	22.6
2 21	12 0.98	− 1 7.3	1.943	2.848	9.7	22.4
3 2	11 53.89	− 0 14.2	1.878	2.840	5.9	22.1
3 12	11 45.46	+ 0 48.7	1.840	2.831	1.7	21.8
3 22	11 36.56	+ 1 55.6	1.832	2.822	2.7	21.9
4 1	11 28.15	+ 2 59.5	1.853	2.813	7.0	22.1
4 11	11 21.12	+ 3 54.3	1.900	2.803	10.8	22.3
4 21	11 16.08	+ 4 35.8	1.971	2.792	14.2	22.5

1628 Strobel 3 15.6 58°.16 0°.9/16.7 18

2 11	12 0.21	− 6 10.7	2.083	2.898	13.0	14.7
2 21	11 56.52	− 4 59.0	2.005	2.903	9.8	14.5
3 2	11 51.14	− 3 28.8	1.951	2.909	6.1	14.3
3 12	11 44.70	− 1 45.3	1.926	2.915	2.2	14.0
3 22	11 37.96	+ 0 4.0	1.930	2.921	2.4	14.0
4 1	11 31.75	+ 1 50.7	1.963	2.927	6.3	14.3
4 11	11 26.80	+ 3 26.9	2.024	2.934	9.9	14.5
4 21	11 23.59	+ 4 47.4	2.109	2.940	13.0	14.7

428777 2008 SW_{217} 3 15.6 268°.39 0°.1/15.6 17

2 11	12 8.62	+ 1 22.7	2.040	2.866	12.8	21.4
2 21	12 2.92	+ 1 24.5	1.942	2.850	9.6	21.1
3 2	11 55.10	+ 1 35.4	1.869	2.833	5.8	20.9
3 12	11 45.81	+ 1 52.2	1.824	2.816	1.6	20.6
3 22	11 35.93	+ 2 10.8	1.808	2.799	2.8	20.6
4 1	11 26.49	+ 2 26.6	1.822	2.781	7.1	20.8
4 11	11 18.45	+ 2 35.5	1.862	2.764	11.0	21.0
4 21	11 12.48	+ 2 34.7	1.924	2.746	14.5	21.2

119073 2001 LD_9 3 15.6 185°.85 0°.8/14.8 18

2 11	12 7.24	− 0 14.3	1.785	2.617	14.1	20.1
2 21	12 2.00	+ 0 48.5	1.706	2.617	10.4	19.9
3 2	11 54.55	+ 2 7.1	1.651	2.617	6.1	19.7
3 12	11 45.64	+ 3 34.8	1.624	2.616	1.6	19.3
3 22	11 36.27	+ 5 3.3	1.625	2.614	3.5	19.5
4 1	11 27.54	+ 6 24.0	1.656	2.611	8.1	19.7
4 11	11 20.42	+ 7 29.7	1.712	2.607	12.2	20.0
4 21	11 15.55	+ 8 16.7	1.790	2.603	15.7	20.2

4049 Noragal′ 3 15.6 242°.11 0°.9/14.4 18

2 11	12 2.94	+ 2 53.1	2.832	3.659	9.6	18.0
2 21	11 58.21	+ 3 31.3	2.733	3.643	7.0	17.8
3 2	11 52.06	+ 4 17.0	2.660	3.626	4.1	17.6
3 12	11 44.96	+ 5 6.6	2.617	3.609	1.2	17.3
3 22	11 37.52	+ 5 55.7	2.605	3.591	2.7	17.4
4 1	11 30.37	+ 6 40.1	2.622	3.573	5.8	17.6
4 11	11 24.16	+ 7 16.0	2.668	3.554	8.7	17.8
4 21	11 19.33	+ 7 41.1	2.738	3.535	11.3	17.9

328236 2008 FD_{61} 3 15.6 335°.05 8°.1/ 9.5 18

2 11	12 11.03	+20 39.6	1.516	2.376	14.7	19.4
2 21	12 5.17	+21 30.8	1.453	2.369	11.5	19.2
3 2	11 56.56	+22 14.8	1.414	2.364	8.9	19.0
3 12	11 46.19	+22 41.6	1.399	2.358	8.2	19.0
3 22	11 35.40	+22 43.6	1.410	2.353	10.1	19.1
4 1	11 25.59	+22 17.5	1.445	2.349	13.3	19.2
4 11	11 17.94	+21 24.3	1.502	2.345	16.6	19.4
4 21	11 13.10	+20 8.5	1.577	2.342	19.5	19.6

125913 2001 XS_{225} 3 15.6 292°.73 0°.5/15.2 18

2 11	12 4.70	+ 0 40.3	1.743	2.583	14.0	20.2
2 21	12 0.22	+ 1 12.6	1.661	2.576	10.4	19.9
3 2	11 53.54	+ 1 58.2	1.603	2.570	6.2	19.7
3 12	11 45.40	+ 2 51.9	1.571	2.563	1.6	19.3
3 22	11 36.75	+ 3 47.2	1.567	2.557	3.3	19.4
4 1	11 28.70	+ 4 37.0	1.590	2.550	7.9	19.7
4 11	11 22.22	+ 5 15.1	1.639	2.544	12.1	19.9
4 21	11 17.96	+ 5 38.2	1.708	2.538	15.7	20.1

334485 2002 QK_{27} 3 15.6 184°.68 2°.5/12.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 2.66	+ 6 55.4	2.369	3.213	10.6	21.4
2 21	11 58.16	+ 8 3.9	2.294	3.213	7.7	21.2
3 2	11 52.07	+ 9 18.9	2.245	3.213	4.6	21.0
3 12	11 44.97	+10 34.2	2.226	3.212	2.5	20.8
3 22	11 37.57	+11 43.6	2.236	3.211	4.4	21.0
4 1	11 30.63	+12 41.6	2.275	3.210	7.5	21.2
4 11	11 24.86	+13 24.4	2.341	3.209	10.5	21.3
4 21	11 20.72	+13 50.4	2.428	3.207	13.1	21.5

215875 2005 EY_{193} 3 15.6 234°.32 0°.8/16.3 16

2 11	12 5.52	− 3 18.0	1.827	2.650	14.2	21.5
2 21	12 0.79	− 2 42.2	1.737	2.641	10.7	21.3
3 2	11 53.89	− 1 49.3	1.671	2.632	6.6	21.0
3 12	11 45.51	− 0 43.6	1.632	2.622	2.2	20.7
3 22	11 36.57	+ 0 28.5	1.621	2.612	2.8	20.7
4 1	11 28.16	+ 1 39.2	1.638	2.601	7.4	21.0
4 11	11 21.26	+ 2 41.2	1.681	2.590	11.6	21.2
4 21	11 16.53	+ 3 29.2	1.746	2.579	15.2	21.4

179888 2002 UX_{26} 3 15.6 85°.03 1°.0/14.6 18

2 11	12 6.16	+ 0 33.1	1.716	2.554	14.3	20.1
2 21	12 1.00	+ 1 37.7	1.664	2.578	10.4	19.9
3 2	11 53.81	+ 2 55.3	1.636	2.603	6.0	19.7
3 12	11 45.43	+ 4 18.6	1.635	2.627	1.6	19.5
3 22	11 36.87	+ 5 39.3	1.663	2.650	3.6	19.7
4 1	11 29.16	+ 6 49.5	1.718	2.674	7.9	20.0
4 11	11 23.15	+ 7 43.8	1.800	2.696	11.7	20.2
4 21	11 19.31	+ 8 19.5	1.903	2.719	14.8	20.5

349405 2007 YF_{26} 3 15.6 16°.09 8°.1/ 4.5 17

2 11	12 4.13	+27 3.4	2.318	3.163	10.8	20.3
2 21	11 59.38	+28 34.2	2.270	3.163	9.1	20.2
3 2	11 52.83	+29 55.7	2.247	3.163	8.1	20.1
3 12	11 45.18	+30 59.9	2.251	3.164	8.5	20.1
3 22	11 37.26	+31 41.2	2.281	3.164	9.9	20.2
4 1	11 29.95	+31 56.9	2.335	3.164	11.8	20.4
4 11	11 24.03	+31 47.2	2.410	3.164	13.7	20.5
4 21	11 19.98	+31 14.9	2.503	3.164	15.5	20.6

347633 2001 SW_{264} 3 15.6 89°.91 3°.8/12.4 18

2 11	12 12.03	+11 36.5	1.857	2.702	13.1	21.3
2 21	12 5.11	+12 11.1	1.809	2.726	9.5	21.1
3 2	11 56.15	+12 46.4	1.786	2.750	5.9	20.9
3 12	11 46.04	+13 15.9	1.791	2.773	3.8	20.8
3 22	11 35.83	+13 34.0	1.825	2.796	5.6	21.0
4 1	11 26.59	+13 37.3	1.887	2.819	9.0	21.2
4 11	11 19.15	+13 24.5	1.974	2.841	12.2	21.5
4 21	11 13.98	+12 56.8	2.083	2.863	14.9	21.7

340646 2006 QH_{169} 3 15.6 117°.03 3°.7/10.6 18

2 11	12 7.21	+16 13.6	3.130	3.966	8.5	21.2
2 21	12 0.96	+16 51.2	3.079	3.988	6.4	21.0
3 2	11 53.49	+17 26.4	3.056	4.010	4.4	20.9
3 12	11 45.32	+17 55.0	3.064	4.031	3.7	20.9
3 22	11 37.08	+18 13.8	3.102	4.052	4.9	21.0
4 1	11 29.36	+18 20.6	3.170	4.072	6.8	21.2
4 11	11 22.71	+18 14.5	3.264	4.092	8.9	21.3
4 21	11 17.47	+17 56.3	3.382	4.111	10.7	21.5

407549 2010 WP_{64} 3 15.6 110°.25 4°.1/11.6 18

2 11	12 8.61	+11 29.8	1.899	2.749	12.6	21.2
2 21	12 2.70	+12 27.8	1.845	2.765	9.2	21.1
3 2	11 54.79	+13 27.6	1.817	2.782	5.9	20.9
3 12	11 45.70	+14 21.7	1.817	2.797	4.2	20.8
3 22	11 36.41	+15 3.6	1.846	2.813	6.0	20.9
4 1	11 27.94	+15 28.6	1.902	2.828	9.3	21.2
4 11	11 21.12	+15 34.8	1.982	2.842	12.4	21.4
4 21	11 16.45	+15 22.8	2.084	2.856	15.1	21.6

384249 2009 DH_{137} 3 15.6 44°.13 1°.6/17.3 17

2 11	12 3.30	− 4 48.4	2.070	2.885	13.1	21.5
2 21	11 58.80	− 4 36.9	1.995	2.892	9.9	21.4
3 2	11 52.52	− 4 11.1	1.944	2.899	6.4	21.1
3 12	11 45.11	− 3 34.0	1.919	2.907	2.7	20.9
3 22	11 37.40	− 2 50.1	1.923	2.914	2.5	20.9
4 1	11 30.24	− 2 4.8	1.956	2.922	6.1	21.2
4 11	11 24.42	− 1 23.8	2.015	2.930	9.6	21.4
4 21	11 20.44	− 0 51.1	2.097	2.938	12.7	21.6

149880 2005 QV_{178} 3 15.6 108°.32 4°.1/19.4 18

2 11	12 7.41	−10 54.0	1.908	2.694	15.1	20.8
2 21	12 1.99	−11 5.8	1.833	2.705	12.0	20.6
3 2	11 54.49	−10 58.1	1.780	2.716	8.5	20.4
3 12	11 45.66	−10 32.1	1.753	2.727	5.2	20.2
3 22	11 36.45	− 9 51.5	1.754	2.737	4.3	20.2
4 1	11 27.91	− 9 1.9	1.783	2.747	6.8	20.4
4 11	11 20.92	− 8 10.4	1.839	2.757	10.2	20.6
4 21	11 16.09	− 7 23.2	1.917	2.767	13.4	20.8

463923 2014 US_{153} 3 15.6 177°.32 0°.8/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 6.70	+ 1 12.1	2.195	3.021	12.0	22.3
2 21	12 1.23	+ 2 4.4	2.115	3.024	8.8	22.1
3 2	11 53.95	+ 3 7.7	2.061	3.026	5.2	21.9
3 12	11 45.51	+ 4 16.8	2.035	3.027	1.4	21.6
3 22	11 36.72	+ 5 25.5	2.040	3.028	3.1	21.8
4 1	11 28.46	+ 6 27.5	2.075	3.027	6.9	22.0
4 11	11 21.53	+ 7 17.7	2.137	3.026	10.4	22.2
4 21	11 16.46	+ 7 53.4	2.222	3.024	13.4	22.4

51657 2001 JG 3 15.6 255°.22 2°.7/18.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.72	− 7 25.1	1.917	2.720	14.4	19.2
2 21	12 1.73	− 7 20.3	1.816	2.703	11.3	19.0
3 2	11 54.51	− 6 57.5	1.737	2.686	7.6	18.7
3 12	11 45.72	− 6 18.5	1.684	2.668	3.9	18.4
3 22	11 36.25	− 5 27.2	1.660	2.649	3.3	18.3
4 1	11 27.20	− 4 29.9	1.664	2.630	7.0	18.5
4 11	11 19.57	− 3 33.7	1.695	2.611	11.1	18.7
4 21	11 14.10	− 2 44.9	1.748	2.591	14.8	18.9

428057 2006 ES 3 15.6 326°.53 2°.7/12.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.85	+ 4 38.0	1.608	2.467	14.0	20.5
2 21	11 57.58	+ 5 50.5	1.528	2.455	10.2	20.2
3 2	11 52.07	+ 7 16.0	1.472	2.443	6.0	19.9
3 12	11 45.05	+ 8 46.5	1.442	2.431	2.7	19.7
3 22	11 37.49	+10 12.3	1.439	2.420	5.3	19.8
4 1	11 30.51	+11 24.2	1.462	2.410	9.7	20.1
4 11	11 25.13	+12 15.7	1.509	2.400	13.8	20.3
4 21	11 22.01	+12 43.9	1.575	2.391	17.4	20.5

160089 2000 OP_{7} 3 15.6 202°.52 4°.2/19.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.06	−10 45.8	2.041	2.817	14.6	20.2
2 21	12 4.76	−11 6.8	1.946	2.813	11.7	20.0
3 2	11 56.23	−11 10.2	1.874	2.807	8.4	19.8
3 12	11 46.16	−10 56.2	1.829	2.801	5.2	19.6
3 22	11 35.50	−10 27.0	1.813	2.794	4.4	19.5
4 1	11 25.33	− 9 47.3	1.825	2.786	7.0	19.6
4 11	11 16.65	− 9 3.6	1.865	2.778	10.4	19.8
4 21	11 10.14	− 8 22.1	1.929	2.768	13.7	20.0

102488 1999 TU_{260} 3 15.6 114°.43 1°.0/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.97	− 2 10.5	1.478	2.307	16.7	19.4
2 21	12 5.70	− 1 59.6	1.415	2.322	12.5	19.1
3 2	11 56.82	− 1 32.3	1.375	2.336	7.7	18.9
3 12	11 46.29	− 0 53.3	1.360	2.350	2.5	18.6
3 22	11 35.40	− 0 8.9	1.372	2.364	3.2	18.7
4 1	11 25.50	+ 0 33.3	1.412	2.377	8.2	19.0
4 11	11 17.70	+ 1 6.8	1.477	2.389	12.7	19.3
4 21	11 12.63	+ 1 27.5	1.564	2.401	16.5	19.6

292237 2006 SJ_{69} 3 15.6 278°.49 0°.3/15.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.79	+ 0 7.9	2.255	3.084	11.7	22.1
2 21	11 58.48	+ 0 44.8	2.155	3.064	8.7	21.9
3 2	11 52.41	+ 1 33.6	2.079	3.044	5.2	21.6
3 12	11 45.12	+ 2 30.0	2.031	3.023	1.3	21.3
3 22	11 37.35	+ 3 28.9	2.013	3.003	2.7	21.4
4 1	11 29.94	+ 4 24.3	2.023	2.982	6.6	21.6
4 11	11 23.67	+ 5 11.0	2.061	2.961	10.2	21.8
4 21	11 19.12	+ 5 45.2	2.121	2.939	13.4	22.0

135100 2001 QO_{81} 3 15.6 172°.08 2°.1/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.20	− 7 11.1	2.715	3.504	11.0	20.3
2 21	11 59.13	− 7 5.8	2.627	3.506	8.5	20.1
3 2	11 52.60	− 6 48.1	2.563	3.508	5.7	19.9
3 12	11 45.14	− 6 19.8	2.528	3.510	2.9	19.7
3 22	11 37.39	− 5 44.0	2.523	3.512	2.5	19.7
4 1	11 30.03	− 5 4.6	2.548	3.513	5.0	19.9
4 11	11 23.71	− 4 26.0	2.602	3.513	7.9	20.1
4 21	11 18.87	− 3 51.9	2.680	3.513	10.5	20.2

11479 1986 EP_{5} 3 15.6 267°.84 0°.2/15.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.06	+ 0 6.3	2.505	3.330	10.7	18.0
2 21	11 57.75	+ 0 40.3	2.408	3.315	8.0	17.8
3 2	11 51.88	+ 1 24.6	2.336	3.300	4.7	17.5
3 12	11 44.97	+ 2 15.4	2.293	3.285	1.2	17.3
3 22	11 37.67	+ 3 8.2	2.280	3.269	2.4	17.3
4 1	11 30.72	+ 3 58.0	2.296	3.254	6.0	17.5
4 11	11 24.80	+ 4 40.1	2.339	3.238	9.2	17.7
4 21	11 20.43	+ 5 11.5	2.406	3.222	12.1	17.9

57641 2001 TW_{191} 3 15.6 115°.67 0°.7/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.96	− 2 30.2	2.582	3.394	10.9	20.1
2 21	11 58.92	− 2 10.9	2.509	3.407	8.1	19.9
3 2	11 52.44	− 1 41.3	2.462	3.420	5.0	19.7
3 12	11 45.09	− 1 4.5	2.443	3.433	1.7	19.5
3 22	11 37.52	− 0 24.3	2.454	3.445	2.0	19.6
4 1	11 30.44	+ 0 14.9	2.495	3.457	5.3	19.8
4 11	11 24.45	+ 0 49.1	2.564	3.469	8.3	20.0
4 21	11 20.00	+ 1 15.5	2.658	3.480	10.9	20.2

443559 2014 KU_{25} 3 15.6 162°.24 4°.3/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 8.93	+ 9 40.1	1.700	2.552	13.7	21.4
2 21	12 3.28	+10 59.5	1.636	2.558	10.0	21.2
3 2	11 55.33	+12 24.6	1.597	2.563	6.3	20.9
3 12	11 45.90	+13 46.3	1.586	2.568	4.3	20.8
3 22	11 36.10	+14 55.4	1.603	2.572	6.6	21.0
4 1	11 27.09	+15 45.0	1.647	2.575	10.3	21.2
4 11	11 19.87	+16 11.7	1.715	2.577	13.9	21.4
4 21	11 15.04	+16 15.6	1.803	2.579	17.0	21.6

174120 2002 JC_{146} 3 15.6 199°.73 4°.2/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.82	+10 40.3	2.153	3.001	11.4	20.5
2 21	12 0.70	+12 18.3	2.077	2.997	8.3	20.2
3 2	11 53.71	+14 1.8	2.029	2.992	5.4	20.1
3 12	11 45.47	+15 42.2	2.010	2.986	4.3	20.0
3 22	11 36.83	+17 11.5	2.021	2.980	6.3	20.1
4 1	11 28.69	+18 22.8	2.060	2.973	9.4	20.3
4 11	11 21.89	+19 12.3	2.125	2.965	12.5	20.4
4 21	11 16.99	+19 39.4	2.210	2.956	15.1	20.6

124263 2001 QN_{13} 3 15.6 98°.48 2°.6/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.22	+ 3 45.5	1.456	2.309	15.6	19.6
2 21	12 2.18	+ 5 4.3	1.402	2.325	11.3	19.4
3 2	11 54.70	+ 6 35.7	1.371	2.341	6.5	19.1
3 12	11 45.73	+ 8 9.9	1.366	2.356	2.7	18.9
3 22	11 36.47	+ 9 36.4	1.389	2.372	5.2	19.1
4 1	11 28.16	+10 46.2	1.438	2.386	9.8	19.4
4 11	11 21.84	+11 33.9	1.511	2.401	13.9	19.7
4 21	11 18.05	+11 57.9	1.605	2.415	17.4	20.0

173357 1999 YG_{8} 3 15.6 51°.06 5°.2/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.48	+11 9.2	1.470	2.337	14.6	19.9
2 21	12 0.97	+12 30.1	1.416	2.344	10.7	19.7
3 2	11 54.02	+13 55.1	1.386	2.352	6.9	19.5
3 12	11 45.56	+15 13.8	1.381	2.361	5.3	19.4
3 22	11 36.76	+16 16.4	1.403	2.369	7.6	19.6
4 1	11 28.88	+16 56.1	1.449	2.378	11.4	19.8
4 11	11 22.92	+17 10.1	1.518	2.387	15.1	20.0
4 21	11 19.48	+16 59.4	1.606	2.396	18.2	20.3

438623 2007 YP_{19} 3 15.6 52°.79 2°.3/18.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.98	− 6 58.5	2.099	2.905	13.2	20.7
2 21	11 58.53	− 6 47.2	2.027	2.917	10.2	20.5
3 2	11 52.35	− 6 20.2	1.979	2.929	6.7	20.3
3 12	11 45.09	− 5 40.2	1.958	2.941	3.3	20.1
3 22	11 37.56	− 4 51.8	1.965	2.954	2.8	20.1
4 1	11 30.61	− 4 0.4	2.000	2.967	5.9	20.3
4 11	11 24.98	− 3 11.9	2.062	2.980	9.3	20.6
4 21	11 21.15	− 2 31.0	2.148	2.993	12.3	20.8

341783 2007 WP_{37} 3 15.6 147°.38 3°.0/19.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.66	−10 27.1	2.590	3.367	11.8	21.3
2 21	11 58.80	−10 22.4	2.505	3.373	9.3	21.2
3 2	11 52.43	−10 2.6	2.444	3.379	6.5	21.0
3 12	11 45.12	− 9 29.3	2.411	3.385	3.9	20.8
3 22	11 37.51	− 8 45.8	2.406	3.390	3.1	20.8
4 1	11 30.34	− 7 56.2	2.431	3.395	5.3	20.9
4 11	11 24.25	− 7 5.8	2.485	3.400	8.1	21.1
4 21	11 19.71	− 6 19.1	2.563	3.404	10.7	21.3

411222 2010 OV_{37} 3 15.6 80°.15 2°.7/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.99	− 7 8.3	1.660	2.472	15.9	20.8
2 21	12 1.85	− 7 2.2	1.594	2.487	12.3	20.6
3 2	11 54.47	− 6 36.8	1.550	2.501	8.1	20.4
3 12	11 45.68	− 5 55.0	1.531	2.515	4.0	20.2
3 22	11 36.56	− 5 2.3	1.540	2.529	3.3	20.2
4 1	11 28.22	− 4 6.0	1.576	2.544	7.1	20.4
4 11	11 21.65	− 3 13.5	1.638	2.558	11.1	20.7
4 21	11 17.41	− 2 30.6	1.722	2.572	14.6	21.0

343100 2009 DE_{57} 3 15.6 49°.13 1°.1/14.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.15	+ 2 47.9	1.978	2.819	12.5	20.4
2 21	11 58.70	+ 3 27.5	1.914	2.831	9.1	20.2
3 2	11 52.46	+ 4 16.5	1.875	2.843	5.3	20.0
3 12	11 45.12	+ 5 9.3	1.864	2.856	1.5	19.7
3 22	11 37.54	+ 6 0.0	1.881	2.868	3.3	19.9
4 1	11 30.60	+ 6 42.9	1.926	2.881	7.2	20.1
4 11	11 25.06	+ 7 13.7	1.997	2.894	10.7	20.4
4 21	11 21.40	+ 7 30.3	2.090	2.908	13.6	20.6

190115 2004 VY_{13} 3 15.6 227°.64 5°.4/21.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.04	−16 30.9	2.382	3.126	13.6	20.8
2 21	12 0.88	−16 49.1	2.279	3.116	11.3	20.7
3 2	11 53.85	−16 48.2	2.198	3.105	8.7	20.5
3 12	11 45.55	−16 27.7	2.142	3.094	6.4	20.3
3 22	11 36.72	−15 49.1	2.115	3.082	5.4	20.2
4 1	11 28.25	−14 56.6	2.116	3.070	6.7	20.3
4 11	11 20.98	−13 56.2	2.144	3.057	9.3	20.4
4 21	11 15.50	−12 54.4	2.198	3.044	12.0	20.6

217926 2001 TW_5 3 15.6 226°.54 2°.0/13.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.41	+ 4 45.6	2.243	3.080	11.4	21.6
2 21	12 0.38	+ 5 46.6	2.152	3.068	8.3	21.4
3 2	11 53.53	+ 6 56.9	2.088	3.055	4.9	21.1
3 12	11 45.46	+ 8 10.5	2.052	3.041	2.1	20.9
3 22	11 36.93	+ 9 20.9	2.046	3.027	4.0	21.0
4 1	11 28.82	+10 21.8	2.070	3.012	7.6	21.2
4 11	11 21.94	+11 8.5	2.120	2.997	11.0	21.4
4 21	11 16.87	+11 38.4	2.192	2.980	14.0	21.6

150983 2001 TM_{229} 3 15.6 230°.13 3°.9/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.98	−10 3.4	2.114	2.894	14.0	20.7
2 21	12 3.20	−10 26.2	2.015	2.885	11.2	20.5
3 2	11 55.31	−10 32.6	1.939	2.875	8.0	20.3
3 12	11 45.96	−10 23.0	1.891	2.864	4.9	20.1
3 22	11 36.02	− 9 59.5	1.871	2.853	4.1	20.0
4 1	11 26.49	− 9 26.3	1.879	2.841	6.7	20.1
4 11	11 18.33	− 8 49.3	1.915	2.829	10.1	20.3
4 21	11 12.22	− 8 14.0	1.975	2.817	13.4	20.5

281770 2009 HG_{52} 3 15.6 317°.74 3°.0/18.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.99	− 8 48.8	2.121	2.920	13.4	20.0
2 21	11 57.98	− 8 45.6	2.026	2.909	10.5	19.8
3 2	11 52.16	− 8 25.4	1.954	2.899	7.2	19.6
3 12	11 45.10	− 7 49.9	1.909	2.888	4.1	19.4
3 22	11 37.57	− 7 2.6	1.891	2.878	3.3	19.3
4 1	11 30.47	− 6 9.0	1.901	2.869	6.1	19.5
4 11	11 24.60	− 5 15.2	1.938	2.859	9.6	19.6
4 21	11 20.56	− 4 27.0	1.999	2.850	12.8	19.8

312855 2011 UO_{87} 3 15.6 259°.59 3°.4/18.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.55	− 9 30.6	1.632	2.438	16.4	21.2
2 21	12 1.18	− 9 16.0	1.537	2.424	13.0	20.9
3 2	11 54.35	− 8 37.7	1.463	2.410	8.9	20.6
3 12	11 45.74	− 7 37.2	1.414	2.396	4.8	20.4
3 22	11 36.40	− 6 20.0	1.392	2.381	3.9	20.3
4 1	11 27.57	− 4 54.4	1.397	2.366	7.7	20.4
4 11	11 20.40	− 3 30.6	1.427	2.350	12.2	20.7
4 21	11 15.69	− 2 17.0	1.479	2.334	16.3	20.9

93674 2000 VZ_3 3 15.6 110°.25 1°.4/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.83	− 4 47.4	1.966	2.781	13.7	20.4
2 21	12 0.02	− 4 22.5	1.892	2.789	10.4	20.2
3 2	11 53.30	− 3 41.8	1.841	2.798	6.5	20.0
3 12	11 45.39	− 2 49.2	1.818	2.806	2.6	19.7
3 22	11 37.14	− 1 50.1	1.823	2.814	2.6	19.7
4 1	11 29.51	− 0 50.9	1.857	2.822	6.4	20.0
4 11	11 23.32	+ 0 2.1	1.917	2.830	10.2	20.2
4 21	11 19.10	+ 0 44.3	2.001	2.838	13.4	20.4

105388 2000 QO_{138} 3 15.6 81°.70 1°.4/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.41	+ 6 4.6	2.315	3.149	11.2	19.1
2 21	12 1.65	+ 6 13.6	2.238	3.152	8.2	18.9
3 2	11 54.17	+ 6 27.2	2.187	3.154	4.8	18.7
3 12	11 45.61	+ 6 41.5	2.165	3.156	1.7	18.5
3 22	11 36.77	+ 6 52.7	2.173	3.158	3.3	18.6
4 1	11 28.47	+ 6 57.4	2.210	3.160	6.7	18.8
4 11	11 21.46	+ 6 52.9	2.274	3.162	9.9	19.0
4 21	11 16.25	+ 6 38.3	2.361	3.164	12.7	19.2

238580 2004 XC_{162} 3 15.6 191°.96 4°.3/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 12.56	+12 41.0	2.031	2.872	12.3	21.1
2 21	12 5.71	+13 27.3	1.956	2.870	9.1	20.9
3 2	11 56.71	+14 14.7	1.906	2.868	5.9	20.7
3 12	11 46.32	+14 56.4	1.886	2.864	4.3	20.5
3 22	11 35.53	+15 26.1	1.895	2.860	6.1	20.6
4 1	11 25.42	+15 39.5	1.932	2.855	9.4	20.8
4 11	11 16.93	+15 34.6	1.995	2.849	12.6	21.0
4 21	11 10.66	+15 12.1	2.080	2.842	15.5	21.2

230954 2004 XV_{98} 3 15.6 136°.55 0°.9/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.42	− 3 26.5	2.469	3.277	11.5	21.1
2 21	12 0.08	− 3 3.3	2.394	3.289	8.6	21.0
3 2	11 53.19	− 2 28.5	2.345	3.301	5.3	20.8
3 12	11 45.35	− 1 45.4	2.324	3.313	1.9	20.6
3 22	11 37.27	− 0 58.1	2.333	3.324	2.1	20.6
4 1	11 29.70	− 0 11.4	2.372	3.335	5.5	20.8
4 11	11 23.31	+ 0 30.1	2.440	3.345	8.6	21.0
4 21	11 18.55	+ 1 3.2	2.531	3.354	11.4	21.2

502394 2015 BP_{248} 3 15.6 87°.95 0°.2/15.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.53	− 0 1.5	1.926	2.759	13.2	21.5
2 21	11 59.84	+ 0 31.7	1.853	2.764	9.7	21.3
3 2	11 53.22	+ 1 17.1	1.805	2.770	5.8	21.1
3 12	11 45.38	+ 2 9.9	1.783	2.775	1.5	20.8
3 22	11 37.21	+ 3 4.1	1.790	2.780	2.9	20.9
4 1	11 29.65	+ 3 53.5	1.825	2.786	7.0	21.2
4 11	11 23.54	+ 4 32.8	1.887	2.791	10.8	21.4
4 21	11 19.42	+ 4 58.7	1.970	2.796	14.0	21.6

245858 2006 OG_9 3 15.6 188°.97 1°.8/17.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 6.48	− 6 15.4	2.128	2.930	13.2	20.9
2 21	12 1.21	− 5 48.1	2.039	2.929	10.1	20.7
3 2	11 54.04	− 5 4.2	1.975	2.927	6.6	20.5
3 12	11 45.61	− 4 7.1	1.939	2.925	2.9	20.3
3 22	11 36.77	− 3 1.6	1.932	2.923	2.6	20.2
4 1	11 28.44	− 1 54.3	1.954	2.919	6.3	20.5
4 11	11 21.44	− 0 51.7	2.004	2.915	9.9	20.7
4 21	11 16.37	+ 0 1.1	2.078	2.910	13.2	20.9

225513 2000 QA_{131} 3 15.6 181°.03 2°.6/18.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.84	− 7 42.6	2.403	3.189	12.4	21.0
2 21	12 2.01	− 7 45.7	2.313	3.190	9.6	20.8
3 2	11 54.44	− 7 34.8	2.248	3.191	6.5	20.6
3 12	11 45.72	− 7 11.5	2.210	3.191	3.5	20.4
3 22	11 36.61	− 6 38.8	2.203	3.190	2.9	20.3
4 1	11 27.97	− 6 1.1	2.226	3.189	5.7	20.5
4 11	11 20.55	− 5 23.3	2.276	3.187	8.9	20.7
4 21	11 14.89	− 4 49.9	2.352	3.185	11.8	20.9

134155 2005 AJ_{71} 3 15.6 248°.60 1°.6/14.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.28	+ 4 13.1	2.055	2.897	12.1	20.6
2 21	11 59.60	+ 4 53.1	1.977	2.894	8.9	20.4
3 2	11 53.08	+ 5 41.7	1.924	2.892	5.2	20.2
3 12	11 45.36	+ 6 33.4	1.899	2.890	1.8	19.9
3 22	11 37.27	+ 7 22.4	1.902	2.888	3.7	20.0
4 1	11 29.72	+ 8 3.0	1.934	2.885	7.5	20.3
4 11	11 23.52	+ 8 31.0	1.992	2.883	11.0	20.5
4 21	11 19.22	+ 8 44.2	2.072	2.880	14.0	20.7

15836 1995 DA_2 3 15.6 64°.43 0°.1/13.6 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 45.18	+ 6 50.2	34.518	35.352	0.9	23.3
2 21	11 44.44	+ 6 56.0	34.439	35.354	0.6	23.2
3 2	11 43.62	+ 7 2.1	34.389	35.356	0.4	23.2
3 12	11 42.75	+ 7 8.1	34.368	35.358	0.1	23.2
3 22	11 41.87	+ 7 14.0	34.378	35.360	0.3	23.2
4 1	11 41.01	+ 7 19.4	34.417	35.362	0.5	23.2
4 11	11 40.21	+ 7 24.2	34.485	35.364	0.8	23.3
4 21	11 39.49	+ 7 28.3	34.579	35.366	1.0	23.3

456714 2007 RF_{292} 3 15.6 62°.26 0°.9/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.73	+ 0 48.6	1.376	2.226	16.5	21.7
2 21	12 1.95	+ 1 32.5	1.321	2.241	12.1	21.5
3 2	11 54.64	+ 2 31.7	1.289	2.257	7.1	21.2
3 12	11 45.78	+ 3 38.6	1.281	2.274	1.8	20.9
3 22	11 36.62	+ 4 44.1	1.301	2.290	3.9	21.1
4 1	11 28.46	+ 5 39.8	1.346	2.307	8.9	21.5
4 11	11 22.34	+ 6 19.2	1.415	2.323	13.4	21.8
4 21	11 18.84	+ 6 39.7	1.504	2.340	17.1	22.0

467600 2007 VA_{253} 3 15.6 142°.78 0°.1/15.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.56	− 1 31.0	2.854	3.667	9.9	21.9
2 21	11 57.82	− 0 47.1	2.778	3.678	7.3	21.8
3 2	11 51.79	+ 0 6.4	2.728	3.689	4.4	21.6
3 12	11 44.98	+ 1 5.9	2.709	3.700	1.2	21.4
3 22	11 37.97	+ 2 6.9	2.720	3.710	2.0	21.5
4 1	11 31.37	+ 3 5.0	2.762	3.720	5.1	21.7
4 11	11 25.74	+ 3 56.0	2.832	3.729	7.9	21.9
4 21	11 21.47	+ 4 37.2	2.927	3.737	10.3	22.1

223728 2004 RZ_{116} 3 15.6 120°.47 1°.4/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.50	+ 4 52.1	2.117	2.951	12.1	20.8
2 21	12 2.51	+ 5 16.7	2.051	2.964	8.8	20.6
3 2	11 54.69	+ 5 47.6	2.010	2.977	5.1	20.4
3 12	11 45.77	+ 6 20.3	1.998	2.989	1.7	20.2
3 22	11 36.61	+ 6 49.8	2.015	3.001	3.4	20.3
4 1	11 28.12	+ 7 11.7	2.062	3.012	7.1	20.6
4 11	11 21.08	+ 7 22.7	2.135	3.023	10.5	20.8
4 21	11 15.98	+ 7 21.7	2.231	3.034	13.3	21.0

472667 2015 ER_7 3 15.6 93°.64 4°.0/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.97	+11 3.7	2.115	2.969	11.3	20.0
2 21	11 58.56	+12 19.7	2.052	2.975	8.3	19.8
3 2	11 52.40	+13 38.8	2.017	2.981	5.3	19.6
3 12	11 45.17	+14 53.7	2.009	2.987	4.0	19.6
3 22	11 37.67	+15 57.6	2.030	2.993	5.9	19.7
4 1	11 30.74	+16 45.1	2.078	2.999	8.9	19.9
4 11	11 25.15	+17 13.2	2.151	3.005	11.8	20.1
4 21	11 21.37	+17 21.8	2.245	3.011	14.4	20.3

186581 2003 AS_{68} 3 15.6 14°.43 4°.0/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.82	+ 8 34.5	1.377	2.244	15.4	19.3
2 21	12 0.67	+ 9 28.6	1.317	2.247	11.2	19.1
3 2	11 53.97	+10 29.8	1.280	2.251	6.8	18.8
3 12	11 45.63	+11 28.7	1.268	2.255	4.0	18.6
3 22	11 36.88	+12 16.4	1.282	2.260	6.4	18.8
4 1	11 29.03	+12 45.7	1.320	2.265	10.8	19.1
4 11	11 23.19	+12 52.8	1.381	2.272	14.9	19.3
4 21	11 19.95	+12 38.0	1.460	2.278	18.4	19.6

313082 2000 TR_{20} 3 15.6 185°.01 4°.5/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 8.41	+11 7.1	1.813	2.664	13.0	21.1
2 21	12 2.87	+12 19.6	1.744	2.665	9.6	20.9
3 2	11 55.11	+13 36.3	1.700	2.665	6.2	20.7
3 12	11 45.93	+14 48.6	1.684	2.664	4.5	20.6
3 22	11 36.33	+15 48.2	1.697	2.663	6.6	20.7
4 1	11 27.44	+16 29.0	1.736	2.661	10.1	20.9
4 11	11 20.21	+16 47.8	1.800	2.658	13.6	21.1
4 21	11 15.26	+16 45.0	1.884	2.655	16.6	21.3

239224 2006 SY_{22} 3 15.6 214°.86 3°.1/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.74	+10 4.9	2.542	3.389	9.9	20.8
2 21	11 58.20	+11 7.0	2.464	3.384	7.2	20.6
3 2	11 52.13	+12 12.7	2.413	3.379	4.5	20.5
3 12	11 45.10	+13 16.4	2.392	3.373	3.1	20.3
3 22	11 37.77	+14 12.6	2.400	3.367	4.8	20.4
4 1	11 30.85	+14 56.5	2.436	3.361	7.6	20.6
4 11	11 25.02	+15 25.4	2.499	3.355	10.3	20.8
4 21	11 20.73	+15 38.1	2.583	3.349	12.7	20.9

131665 2001 XA_{167} 3 15.6 135°.56 4°.8/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.62	+10 38.1	1.572	2.430	14.3	20.1
2 21	12 3.21	+11 51.9	1.513	2.437	10.5	19.9
3 2	11 55.36	+13 10.2	1.478	2.444	6.7	19.7
3 12	11 45.99	+14 23.5	1.469	2.450	4.8	19.6
3 22	11 36.26	+15 22.6	1.488	2.456	7.0	19.7
4 1	11 27.40	+16 0.8	1.533	2.462	10.9	20.0
4 11	11 20.46	+16 15.2	1.601	2.467	14.5	20.2
4 21	11 16.04	+16 6.7	1.688	2.472	17.7	20.4

368697 2005 SQ_{116} 3 15.6 192°.42 3°.1/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.36	+ 5 48.1	2.048	2.895	11.9	20.7
2 21	11 58.97	+ 7 30.7	1.972	2.893	8.6	20.5
3 2	11 52.73	+ 9 23.5	1.924	2.892	5.1	20.3
3 12	11 45.28	+11 18.1	1.904	2.890	3.1	20.1
3 22	11 37.45	+13 5.5	1.915	2.887	5.3	20.2
4 1	11 30.14	+14 37.5	1.954	2.885	8.8	20.5
4 11	11 24.16	+15 48.8	2.019	2.881	12.1	20.7
4 21	11 20.06	+16 37.3	2.105	2.878	15.0	20.8

413707 2005 YU_{143} 3 15.6 93°.75 2°.3/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.01	+ 5 39.4	1.962	2.806	12.5	21.2
2 21	12 0.77	+ 6 34.4	1.906	2.825	9.0	21.1
3 2	11 53.68	+ 7 36.4	1.876	2.844	5.3	20.9
3 12	11 45.51	+ 8 38.7	1.873	2.862	2.3	20.7
3 22	11 37.13	+ 9 34.9	1.899	2.880	4.3	20.9
4 1	11 29.49	+10 19.3	1.954	2.898	7.9	21.1
4 11	11 23.34	+10 48.4	2.034	2.916	11.2	21.4
4 21	11 19.16	+11 0.8	2.136	2.933	14.0	21.6

279058 2008 WU_{3} 3 15.6 251°.95 1°.4/14.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.96	+ 3 48.4	2.054	2.894	12.2	21.2
2 21	12 0.14	+ 4 22.9	1.972	2.888	9.0	21.0
3 2	11 53.43	+ 5 6.2	1.915	2.883	5.2	20.7
3 12	11 45.48	+ 5 53.1	1.886	2.877	1.7	20.5
3 22	11 37.12	+ 6 38.1	1.885	2.871	3.5	20.6
4 1	11 29.28	+ 7 15.6	1.913	2.866	7.4	20.8
4 11	11 22.80	+ 7 41.2	1.967	2.860	11.0	21.0
4 21	11 18.24	+ 7 52.8	2.043	2.854	14.1	21.2

357996 2006 DG_{49} 3 15.6 273°.95 0°.1/15.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.80	− 0 26.2	1.594	2.430	15.3	21.7
2 21	12 2.98	− 0 2.3	1.496	2.408	11.5	21.4
3 2	11 55.52	+ 0 37.7	1.421	2.386	7.0	21.1
3 12	11 46.13	+ 1 29.2	1.371	2.363	1.9	20.7
3 22	11 35.88	+ 2 25.6	1.349	2.340	3.4	20.7
4 1	11 26.07	+ 3 18.8	1.354	2.316	8.7	21.0
4 11	11 17.98	+ 4 1.3	1.383	2.292	13.6	21.2
4 21	11 12.46	+ 4 28.1	1.433	2.268	17.8	21.4

215872 2005 EH_{176} 3 15.6 259°.62 0°.3/15.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.54	− 1 28.2	1.799	2.627	14.2	22.0
2 21	12 1.72	− 0 58.3	1.702	2.610	10.7	21.7
3 2	11 54.60	− 0 12.8	1.629	2.592	6.5	21.4
3 12	11 45.85	+ 0 44.1	1.582	2.574	1.9	21.1
3 22	11 36.43	+ 1 46.1	1.564	2.555	3.0	21.1
4 1	11 27.47	+ 2 45.7	1.574	2.536	7.8	21.4
4 11	11 20.01	+ 3 36.0	1.609	2.516	12.1	21.6
4 21	11 14.81	+ 4 12.2	1.666	2.496	16.0	21.8

105538 2000 RF_{39} 3 15.6 169°.23 4°.7/21.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.73	−16 56.7	2.833	3.567	11.9	20.0
2 21	11 58.85	−17 9.1	2.740	3.570	9.9	19.9
3 2	11 52.50	−17 4.7	2.670	3.572	7.6	19.7
3 12	11 45.22	−16 43.9	2.626	3.574	5.6	19.6
3 22	11 37.61	−16 8.4	2.611	3.576	4.7	19.6
4 1	11 30.38	−15 21.8	2.625	3.578	5.7	19.6
4 11	11 24.14	−14 28.9	2.667	3.579	7.7	19.8
4 21	11 19.37	−13 34.9	2.735	3.580	10.0	19.9

205762 2002 CE_{35} 3 15.6 348°.59 1°.6/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 8.47	+ 4 34.2	1.229	2.090	17.3	19.6
2 21	12 3.79	+ 4 41.8	1.159	2.085	12.8	19.3
3 2	11 56.06	+ 5 0.0	1.110	2.081	7.6	19.0
3 12	11 46.27	+ 5 22.3	1.086	2.078	2.3	18.6
3 22	11 35.81	+ 5 41.7	1.086	2.075	4.7	18.8
4 1	11 26.29	+ 5 51.0	1.111	2.073	10.2	19.1
4 11	11 19.06	+ 5 45.7	1.158	2.071	15.3	19.3
4 21	11 14.91	+ 5 23.9	1.223	2.071	19.5	19.6

140760 2001 UN_{119} 3 15.6 51°.16 1°.1/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.58	+ 3 7.0	2.019	2.860	12.3	20.0
2 21	11 58.99	+ 3 43.1	1.958	2.874	9.0	19.9
3 2	11 52.65	+ 4 27.8	1.921	2.889	5.2	19.7
3 12	11 45.26	+ 5 15.9	1.912	2.904	1.5	19.4
3 22	11 37.64	+ 6 1.7	1.932	2.919	3.3	19.6
4 1	11 30.66	+ 6 40.0	1.980	2.935	7.0	19.8
4 11	11 25.07	+ 7 6.6	2.054	2.950	10.4	20.1
4 21	11 21.34	+ 7 19.7	2.150	2.966	13.3	20.3

210683 2000 RL_{85} 3 15.6 277°.42 2°.2/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.07	+ 4 13.5	2.333	3.174	10.9	20.4
2 21	11 57.22	+ 5 37.6	2.235	3.153	7.9	20.2
3 2	11 51.70	+ 7 13.0	2.163	3.132	4.6	20.0
3 12	11 45.04	+ 8 53.3	2.121	3.110	2.2	19.7
3 22	11 37.92	+10 31.2	2.109	3.088	4.2	19.8
4 1	11 31.13	+11 59.3	2.127	3.066	7.7	20.0
4 11	11 25.42	+13 12.0	2.171	3.044	11.0	20.2
4 21	11 21.34	+14 6.0	2.238	3.022	13.9	20.3

175415 2006 PS_{12} 3 15.6 205°.19 0°.2/15.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.58	− 0 27.7	2.084	2.907	12.7	21.3
2 21	12 1.35	+ 0 14.4	1.996	2.902	9.4	21.0
3 2	11 54.17	+ 1 9.5	1.933	2.897	5.6	20.8
3 12	11 45.71	+ 2 12.7	1.898	2.890	1.5	20.5
3 22	11 36.80	+ 3 18.2	1.893	2.883	2.8	20.6
4 1	11 28.38	+ 4 19.3	1.918	2.875	7.0	20.8
4 11	11 21.32	+ 5 10.3	1.969	2.867	10.7	21.0
4 21	11 16.21	+ 5 47.5	2.043	2.858	14.0	21.2

309213 2007 JQ_{22} 3 15.6 266°.13 5°.1/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.94	+11 2.2	1.585	2.442	14.3	20.9
2 21	12 3.84	+12 13.8	1.497	2.420	10.6	20.7
3 2	11 56.04	+13 32.6	1.432	2.398	6.9	20.4
3 12	11 46.29	+14 48.9	1.395	2.375	5.1	20.2
3 22	11 35.73	+15 52.6	1.384	2.352	7.6	20.3
4 1	11 25.71	+16 35.3	1.400	2.328	11.8	20.5
4 11	11 17.52	+16 52.4	1.438	2.304	15.9	20.7
4 21	11 11.98	+16 43.7	1.495	2.279	19.6	20.8

300161 2006 VU_{131} 3 15.6 162°.53 3°.6/20.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.87	−13 49.1	2.770	3.528	11.6	21.2
2 21	11 57.48	−13 37.4	2.679	3.532	9.4	21.0
3 2	11 51.69	−13 9.2	2.613	3.535	6.9	20.8
3 12	11 45.01	−12 25.9	2.573	3.538	4.5	20.7
3 22	11 38.06	−11 30.6	2.562	3.540	3.6	20.6
4 1	11 31.48	−10 27.4	2.580	3.542	5.1	20.7
4 11	11 25.90	− 9 21.9	2.627	3.544	7.6	20.9
4 21	11 21.74	− 8 19.1	2.700	3.546	10.1	21.1

253252 2003 AW_{47} 3 15.6 72°.22 1°.8/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.49	+ 4 18.8	1.610	2.456	14.7	20.6
2 21	12 2.89	+ 4 56.1	1.558	2.477	10.6	20.4
3 2	11 55.05	+ 5 42.5	1.530	2.498	6.2	20.2
3 12	11 45.91	+ 6 31.1	1.528	2.519	2.1	20.0
3 22	11 36.58	+ 7 15.0	1.554	2.540	4.2	20.2
4 1	11 28.19	+ 7 47.9	1.608	2.561	8.5	20.5
4 11	11 21.65	+ 8 6.0	1.686	2.582	12.4	20.7
4 21	11 17.48	+ 8 8.1	1.785	2.602	15.6	21.0

381285 2007 TO_{414} 3 15.6 147°.59 4°.6/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.11	+15 42.4	2.570	3.418	9.8	21.1
2 21	11 59.13	+16 52.6	2.510	3.426	7.3	20.9
3 2	11 52.66	+18 1.7	2.478	3.433	5.2	20.8
3 12	11 45.27	+19 3.7	2.474	3.440	4.6	20.8
3 22	11 37.66	+19 53.1	2.500	3.446	6.1	20.9
4 1	11 30.56	+20 26.4	2.554	3.452	8.5	21.0
4 11	11 24.61	+20 41.7	2.633	3.458	10.8	21.2
4 21	11 20.25	+20 39.6	2.732	3.463	12.9	21.3

111082 2001 VF_{58} 3 15.6 177°.08 0°.8/16.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.01	− 2 34.1	1.900	2.723	13.8	19.9
2 21	12 1.04	− 2 13.3	1.820	2.723	10.3	19.6
3 2	11 54.03	− 1 38.2	1.763	2.724	6.4	19.4
3 12	11 45.68	− 0 52.6	1.734	2.724	2.1	19.1
3 22	11 36.91	− 0 2.0	1.733	2.724	2.6	19.2
4 1	11 28.74	+ 0 47.4	1.760	2.724	6.9	19.4
4 11	11 22.05	+ 1 29.5	1.814	2.724	10.8	19.6
4 21	11 17.43	+ 2 0.3	1.890	2.724	14.2	19.9

271 Penthesilea 3 15.6 134°.26 0°.6/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.41	− 1 48.7	2.400	3.216	11.4	14.9
2 21	11 59.44	− 1 28.1	2.322	3.223	8.5	14.8
3 2	11 52.88	− 0 56.7	2.270	3.230	5.2	14.6
3 12	11 45.34	− 0 18.0	2.246	3.236	1.7	14.3
3 22	11 37.53	+ 0 23.9	2.252	3.243	2.2	14.4
4 1	11 30.20	+ 1 4.3	2.287	3.249	5.7	14.6
4 11	11 24.05	+ 1 38.8	2.350	3.255	8.9	14.8
4 21	11 19.53	+ 2 4.4	2.436	3.260	11.7	15.0

140423 2001 TM_{93} 3 15.6 249°.92 3°.4/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.33	−11 28.9	2.340	3.120	12.8	19.8
2 21	11 58.09	−11 19.5	2.247	3.116	10.2	19.6
3 2	11 52.18	−10 52.3	2.178	3.112	7.3	19.4
3 12	11 45.17	−10 9.1	2.134	3.107	4.5	19.2
3 22	11 37.79	− 9 13.1	2.119	3.103	3.5	19.1
4 1	11 30.81	− 8 9.6	2.133	3.099	5.7	19.3
4 11	11 24.99	− 7 4.9	2.175	3.094	8.8	19.4
4 21	11 20.83	− 6 4.6	2.240	3.090	11.7	19.6

243195 2007 TT_{377} 3 15.6 71°.96 1°.4/17.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.84	− 4 44.4	2.182	2.995	12.6	21.0
2 21	11 58.45	− 4 21.5	2.103	3.000	9.5	20.8
3 2	11 52.37	− 3 44.4	2.050	3.006	6.0	20.6
3 12	11 45.21	− 2 56.4	2.023	3.011	2.5	20.4
3 22	11 37.75	− 2 2.3	2.025	3.016	2.3	20.4
4 1	11 30.80	− 1 7.8	2.056	3.022	5.9	20.6
4 11	11 25.10	− 0 18.4	2.114	3.027	9.4	20.9
4 21	11 21.14	+ 0 21.8	2.196	3.033	12.4	21.1

203304 2001 SF_{265} 3 15.6 167°.47 1°.9/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.24	+ 4 51.3	1.660	2.501	14.5	20.9
2 21	12 5.10	+ 5 21.3	1.588	2.505	10.7	20.7
3 2	11 56.52	+ 6 0.3	1.540	2.508	6.3	20.4
3 12	11 46.36	+ 6 42.0	1.519	2.510	2.2	20.2
3 22	11 35.76	+ 7 19.5	1.527	2.512	4.3	20.3
4 1	11 25.96	+ 7 46.8	1.562	2.514	8.8	20.6
4 11	11 18.01	+ 7 59.7	1.622	2.515	12.9	20.8
4 21	11 12.57	+ 7 56.6	1.703	2.515	16.5	21.0

421634 2014 OB_{298} 3 15.6 170°.28 0°.2/15.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.55	− 2 0.2	1.918	2.742	13.6	22.3
2 21	12 1.40	− 1 18.6	1.840	2.745	10.2	22.1
3 2	11 54.22	− 0 22.1	1.786	2.748	6.1	21.8
3 12	11 45.74	+ 0 44.3	1.759	2.750	1.8	21.5
3 22	11 36.85	+ 1 54.1	1.761	2.752	2.8	21.6
4 1	11 28.57	+ 3 0.1	1.792	2.753	7.1	21.9
4 11	11 21.78	+ 3 56.0	1.850	2.754	11.0	22.1
4 21	11 17.07	+ 4 37.7	1.930	2.754	14.3	22.3

76560 2000 GR_{98} 3 15.6 102°.17 0°.6/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.37	+ 2 54.6	2.122	2.953	12.2	19.1
2 21	12 1.81	+ 3 2.5	2.044	2.954	9.0	18.9
3 2	11 54.39	+ 3 18.1	1.990	2.956	5.3	18.7
3 12	11 45.77	+ 3 37.5	1.965	2.957	1.4	18.4
3 22	11 36.81	+ 3 56.6	1.969	2.958	2.9	18.5
4 1	11 28.41	+ 4 11.1	2.002	2.959	6.8	18.8
4 11	11 21.39	+ 4 17.7	2.061	2.960	10.3	19.0
4 21	11 16.30	+ 4 14.2	2.144	2.961	13.3	19.2

289201 2004 XV_5 3 15.6 81°.58 2°.2/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.35	+ 4 25.8	1.454	2.305	15.7	21.2
2 21	12 3.72	+ 5 15.4	1.403	2.325	11.4	21.0
3 2	11 55.64	+ 6 15.2	1.376	2.345	6.6	20.7
3 12	11 46.10	+ 7 17.0	1.374	2.365	2.4	20.5
3 22	11 36.33	+ 8 12.5	1.400	2.385	4.8	20.7
4 1	11 27.61	+ 8 54.2	1.452	2.404	9.3	21.0
4 11	11 20.94	+ 9 18.0	1.528	2.423	13.4	21.3
4 21	11 16.86	+ 9 22.8	1.625	2.442	16.9	21.6

294580 2007 YA_{60} 3 15.6 118°.09 6°.7/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.48	+23 2.6	2.441	3.289	10.2	20.8
2 21	11 59.51	+24 30.1	2.396	3.300	8.2	20.7
3 2	11 52.92	+25 50.9	2.378	3.310	6.9	20.6
3 12	11 45.35	+26 57.8	2.388	3.321	7.0	20.6
3 22	11 37.58	+27 45.4	2.425	3.331	8.4	20.7
4 1	11 30.40	+28 10.8	2.488	3.341	10.4	20.9
4 11	11 24.51	+28 13.7	2.573	3.350	12.4	21.0
4 21	11 20.35	+27 55.9	2.678	3.359	14.1	21.2

249535 2010 GD_{135} 3 15.6 91°.27 2°.3/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.82	+ 7 2.8	2.171	3.015	11.5	20.9
2 21	11 59.83	+ 7 47.4	2.108	3.027	8.3	20.7
3 2	11 53.13	+ 8 37.1	2.071	3.039	4.9	20.5
3 12	11 45.41	+ 9 26.4	2.062	3.050	2.4	20.4
3 22	11 37.47	+10 9.8	2.083	3.062	4.2	20.5
4 1	11 30.14	+10 42.6	2.132	3.074	7.5	20.7
4 11	11 24.14	+11 1.6	2.206	3.085	10.6	20.9
4 21	11 19.94	+11 6.0	2.303	3.097	13.3	21.1

326431 2001 TM_{250} 3 15.6 29°.38 5°.2/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 11.81	+14 27.9	1.637	2.491	14.1	20.2
2 21	12 5.52	+14 57.5	1.573	2.493	10.5	19.9
3 2	11 56.75	+15 25.6	1.533	2.495	7.0	19.7
3 12	11 46.42	+15 44.6	1.519	2.497	5.2	19.6
3 22	11 35.74	+15 48.4	1.533	2.500	7.1	19.7
4 1	11 25.98	+15 33.2	1.573	2.502	10.6	19.9
4 11	11 18.19	+14 58.5	1.637	2.505	14.2	20.2
4 21	11 12.99	+14 6.4	1.721	2.508	17.3	20.4

258284 2001 UP_{37} 3 15.6 125°.66 2°.4/18.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.46	− 7 3.4	2.069	2.868	13.7	21.3
2 21	12 1.88	− 6 55.4	1.995	2.881	10.5	21.1
3 2	11 54.42	− 6 31.3	1.945	2.894	7.0	20.9
3 12	11 45.78	− 5 53.9	1.922	2.906	3.4	20.7
3 22	11 36.83	− 5 7.4	1.929	2.918	2.9	20.7
4 1	11 28.51	− 4 17.5	1.964	2.929	6.2	20.9
4 11	11 21.62	− 3 30.2	2.026	2.940	9.7	21.1
4 21	11 16.71	− 2 50.3	2.112	2.950	12.8	21.3

219387 2000 SC_{130} 3 15.6 120°.26 4°.8/21.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.74	−15 36.4	2.376	3.122	13.6	21.2
2 21	12 1.91	−15 47.3	2.301	3.142	11.1	21.1
3 2	11 54.36	−15 39.0	2.249	3.161	8.3	20.9
3 12	11 45.75	−15 12.4	2.223	3.179	5.8	20.8
3 22	11 36.87	−14 29.9	2.226	3.197	4.8	20.8
4 1	11 28.57	−13 36.5	2.258	3.214	6.2	20.9
4 11	11 21.57	−12 38.2	2.317	3.230	8.7	21.1
4 21	11 16.38	−11 40.9	2.402	3.246	11.2	21.3

10963 van der Brugge 3 15.6 276°.96 0°.1/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.95	− 2 3.0	2.286	3.111	11.7	19.1
2 21	11 57.07	− 1 12.7	2.197	3.103	8.7	18.9
3 2	11 51.58	− 0 8.9	2.133	3.096	5.2	18.6
3 12	11 45.02	+ 1 4.0	2.098	3.089	1.5	18.4
3 22	11 38.10	+ 2 20.1	2.091	3.082	2.4	18.4
4 1	11 31.60	+ 3 33.3	2.114	3.075	6.2	18.6
4 11	11 26.22	+ 4 37.5	2.164	3.068	9.7	18.8
4 21	11 22.48	+ 5 28.7	2.238	3.061	12.7	19.0

135489 2001 XQ_7 3 15.6 151°.81 2°.5/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.89	+10 21.4	2.851	3.686	9.3	20.3
2 21	12 0.98	+10 48.1	2.781	3.694	6.8	20.2
3 2	11 53.69	+11 16.3	2.737	3.701	4.2	20.0
3 12	11 45.56	+11 41.9	2.724	3.708	2.5	19.9
3 22	11 37.24	+12 1.3	2.741	3.715	3.8	20.0
4 1	11 29.40	+12 11.5	2.789	3.721	6.4	20.2
4 11	11 22.63	+12 11.0	2.864	3.726	9.0	20.3
4 21	11 17.36	+11 59.2	2.963	3.732	11.2	20.5

57954 2002 JA_{101} 3 15.6 178°.11 7°.4/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.62	+35 12.2	3.364	4.166	8.8	19.0
2 21	12 2.22	+36 9.4	3.320	4.168	7.8	19.0
3 2	11 54.40	+36 54.8	3.302	4.169	7.4	18.9
3 12	11 45.74	+37 23.5	3.311	4.170	7.7	19.0
3 22	11 36.95	+37 32.6	3.346	4.170	8.6	19.0
4 1	11 28.70	+37 21.0	3.405	4.170	9.8	19.1
4 11	11 21.63	+36 49.7	3.487	4.169	11.0	19.2
4 21	11 16.12	+36 1.3	3.586	4.168	12.2	19.3

63080 2000 WW_{132} 3 15.6 34°.14 1°.4/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.28	+ 5 59.1	2.297	3.131	11.3	18.9
2 21	12 1.61	+ 6 6.3	2.220	3.133	8.2	18.7
3 2	11 54.20	+ 6 18.2	2.169	3.136	4.8	18.5
3 12	11 45.73	+ 6 30.9	2.147	3.138	1.6	18.3
3 22	11 36.95	+ 6 40.6	2.155	3.140	3.2	18.4
4 1	11 28.73	+ 6 43.9	2.191	3.143	6.7	18.6
4 11	11 21.80	+ 6 38.3	2.255	3.145	9.9	18.8
4 21	11 16.67	+ 6 22.7	2.342	3.148	12.7	19.0

90040 2002 UN_{49} 3 15.6 69°.17 3°.0/18.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.98	− 6 33.9	1.614	2.426	16.3	18.7
2 21	12 3.40	− 6 45.8	1.550	2.443	12.5	18.5
3 2	11 55.48	− 6 39.4	1.508	2.459	8.3	18.3
3 12	11 46.09	− 6 17.0	1.492	2.475	4.2	18.1
3 22	11 36.36	− 5 43.1	1.503	2.492	3.6	18.1
4 1	11 27.49	− 5 4.3	1.541	2.508	7.3	18.4
4 11	11 20.47	− 4 27.3	1.605	2.525	11.3	18.6
4 21	11 15.90	− 3 57.8	1.690	2.541	14.8	18.9

103222 1999 YD_5 3 15.7 139°.96 1°.0/14.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.53	+ 0 44.7	1.572	2.411	15.3	20.1
2 21	12 3.16	+ 1 39.1	1.505	2.420	11.3	19.9
3 2	11 55.39	+ 2 48.5	1.462	2.429	6.6	19.7
3 12	11 46.08	+ 4 5.7	1.445	2.437	1.8	19.4
3 22	11 36.38	+ 5 22.0	1.457	2.445	3.8	19.5
4 1	11 27.51	+ 6 28.6	1.495	2.452	8.6	19.8
4 11	11 20.51	+ 7 19.0	1.559	2.459	12.9	20.1
4 21	11 15.98	+ 7 50.2	1.644	2.465	16.6	20.3

224324 2005 UG_{46} 3 15.7 111°.53 0°.3/15.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.02	− 1 52.2	1.886	2.713	13.7	21.5
2 21	12 0.27	− 1 16.9	1.813	2.720	10.2	21.3
3 2	11 53.54	− 0 27.4	1.764	2.727	6.1	21.1
3 12	11 45.57	+ 0 31.6	1.743	2.734	1.8	20.8
3 22	11 37.26	+ 1 33.8	1.750	2.741	2.7	20.9
4 1	11 29.58	+ 2 32.4	1.785	2.747	7.0	21.2
4 11	11 23.39	+ 3 21.5	1.846	2.754	10.8	21.4
4 21	11 19.23	+ 3 57.0	1.930	2.760	14.1	21.6

43902 1995 VX_{4} 3 15.7 286°.28 2°.1/13.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.10	+ 3 37.1	1.574	2.425	14.7	19.5
2 21	12 0.93	+ 4 31.0	1.485	2.407	10.8	19.2
3 2	11 54.27	+ 5 38.9	1.419	2.389	6.4	18.9
3 12	11 45.84	+ 6 53.7	1.379	2.370	2.3	18.6
3 22	11 36.69	+ 8 6.5	1.366	2.351	4.8	18.7
4 1	11 28.08	+ 9 8.2	1.380	2.333	9.6	19.0
4 11	11 21.16	+ 9 52.0	1.417	2.314	14.2	19.2
4 21	11 16.72	+10 14.5	1.475	2.296	18.1	19.4

357123 2001 XR_{216} 3 15.7 98°.26 4°.4/12.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.64	+ 9 35.4	1.492	2.349	15.0	20.8
2 21	12 3.97	+10 43.4	1.441	2.365	10.9	20.5
3 2	11 55.82	+11 56.3	1.413	2.380	6.8	20.3
3 12	11 46.19	+13 4.5	1.412	2.396	4.4	20.2
3 22	11 36.29	+13 59.0	1.438	2.411	6.7	20.4
4 1	11 27.41	+14 33.4	1.490	2.425	10.6	20.7
4 11	11 20.56	+14 45.0	1.565	2.439	14.4	20.9
4 21	11 16.31	+14 34.8	1.660	2.453	17.6	21.2

417140 2005 VF_{76} 3 15.7 77°.97 0°.5/16.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.93	− 0 23.4	1.802	2.626	14.3	21.3
2 21	12 4.46	− 0 18.2	1.748	2.653	10.6	21.1
3 2	11 55.92	− 0 1.5	1.717	2.679	6.4	20.9
3 12	11 46.19	+ 0 22.7	1.714	2.705	1.9	20.7
3 22	11 36.30	+ 0 49.4	1.740	2.731	2.7	20.8
4 1	11 27.31	+ 1 13.6	1.795	2.757	7.0	21.1
4 11	11 20.08	+ 1 30.7	1.875	2.782	10.7	21.4
4 21	11 15.10	+ 1 38.1	1.979	2.807	13.9	21.6

384085 2008 VR_{60} 3 15.7 229°.06 1°.2/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.58	− 4 24.1	2.117	2.932	12.8	21.5
2 21	11 59.13	− 3 57.0	2.030	2.928	9.7	21.3
3 2	11 52.86	− 3 15.0	1.967	2.924	6.1	21.1
3 12	11 45.41	− 2 21.4	1.932	2.921	2.4	20.8
3 22	11 37.55	− 1 21.4	1.925	2.917	2.4	20.8
4 1	11 30.17	− 0 21.2	1.947	2.913	6.2	21.1
4 11	11 24.07	+ 0 33.3	1.996	2.908	9.9	21.3
4 21	11 19.80	+ 1 17.5	2.069	2.904	13.1	21.5

498947 2009 BU_{61} 3 15.7 311°.89 1°.1/16.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.07	− 2 21.5	1.334	2.179	17.2	21.5
2 21	12 1.32	− 2 11.6	1.246	2.161	13.1	21.2
3 2	11 54.71	− 1 42.4	1.179	2.144	8.2	20.9
3 12	11 46.02	− 0 57.8	1.136	2.126	2.8	20.5
3 22	11 36.43	− 0 4.4	1.117	2.110	3.5	20.5
4 1	11 27.44	+ 0 48.8	1.124	2.093	9.1	20.8
4 11	11 20.41	+ 1 33.0	1.154	2.078	14.4	21.0
4 21	11 16.25	+ 2 1.8	1.203	2.063	19.0	21.2

208680 2002 GZ_{94} 3 15.7 331°.54 3°.2/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.86	− 8 35.6	1.438	2.259	17.5	20.1
2 21	12 0.10	− 8 18.4	1.358	2.255	13.7	19.8
3 2	11 53.79	− 7 36.0	1.299	2.251	9.2	19.5
3 12	11 45.72	− 6 31.2	1.263	2.247	4.7	19.3
3 22	11 37.02	− 5 10.8	1.254	2.244	3.8	19.2
4 1	11 29.02	− 3 44.5	1.270	2.241	8.0	19.4
4 11	11 22.88	− 2 23.1	1.311	2.239	12.7	19.7
4 21	11 19.34	− 1 14.8	1.373	2.236	16.9	19.9

489773 2008 AB_{109} 3 15.7 87°.76 3°.2/19.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.94	−10 7.7	2.388	3.171	12.5	21.8
2 21	11 59.18	−10 12.5	2.306	3.177	9.9	21.7
3 2	11 52.80	−10 1.9	2.248	3.184	7.0	21.5
3 12	11 45.38	− 9 37.1	2.216	3.191	4.2	21.3
3 22	11 37.65	− 9 1.3	2.213	3.197	3.4	21.3
4 1	11 30.39	− 8 18.8	2.239	3.204	5.6	21.4
4 11	11 24.30	− 7 34.8	2.293	3.210	8.5	21.6
4 21	11 19.87	− 6 54.3	2.371	3.217	11.3	21.8

458283 2010 UR_{61} 3 15.7 42°.86 14°.0/11.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 38.10	+36 6.4	1.250	2.060	20.2	19.8
2 21	12 24.45	+36 16.3	1.232	2.096	17.2	19.7
3 2	12 7.37	+35 53.4	1.234	2.132	14.8	19.6
3 12	11 49.07	+34 48.1	1.260	2.169	14.0	19.7
3 22	11 31.94	+33 0.7	1.312	2.206	14.8	19.8
4 1	11 17.86	+30 39.5	1.388	2.243	16.8	20.1
4 11	11 7.76	+27 57.1	1.487	2.281	19.1	20.3
4 21	11 1.73	+25 5.3	1.604	2.319	21.1	20.6

241216 2007 TM_{63} 3 15.7 72°.74 0°.7/14.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.58	+ 1 34.2	2.132	2.966	12.0	20.5
2 21	11 58.98	+ 2 11.2	2.064	2.977	8.8	20.3
3 2	11 52.68	+ 2 57.8	2.022	2.988	5.1	20.1
3 12	11 45.35	+ 3 49.4	2.007	2.999	1.3	19.9
3 22	11 37.76	+ 4 40.3	2.022	3.011	2.9	20.0
4 1	11 30.75	+ 5 25.2	2.065	3.022	6.6	20.3
4 11	11 25.05	+ 5 59.8	2.135	3.033	10.0	20.5
4 21	11 21.12	+ 6 21.4	2.227	3.044	12.9	20.7

404522 2013 HF_{102} 3 15.7 79°.72 0°.1/15.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.75	− 0 34.3	1.459	2.298	16.3	21.9
2 21	12 3.38	− 0 6.4	1.401	2.314	12.1	21.7
3 2	11 55.52	+ 0 36.9	1.365	2.331	7.2	21.4
3 12	11 46.14	+ 1 29.7	1.355	2.347	2.0	21.1
3 22	11 36.44	+ 2 24.3	1.372	2.363	3.3	21.3
4 1	11 27.71	+ 3 12.9	1.416	2.379	8.3	21.6
4 11	11 21.00	+ 3 49.2	1.484	2.395	12.7	21.9
4 21	11 16.86	+ 4 9.8	1.573	2.411	16.4	22.2

150758 2001 QV_{155} 3 15.7 136°.47 0°.7/16.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.36	− 3 4.8	2.237	3.049	12.3	21.5
2 21	12 0.95	− 2 28.7	2.165	3.063	9.2	21.3
3 2	11 53.82	− 1 39.6	2.118	3.076	5.6	21.1
3 12	11 45.66	− 0 41.6	2.099	3.089	1.9	20.9
3 22	11 37.24	+ 0 20.0	2.110	3.101	2.3	20.9
4 1	11 29.39	+ 1 19.4	2.151	3.113	6.0	21.2
4 11	11 22.86	+ 2 11.2	2.220	3.123	9.4	21.4
4 21	11 18.11	+ 2 51.9	2.312	3.134	12.4	21.6

340803 2006 TC_{71} 3 15.7 96°.03 2°.1/18.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.04	− 7 36.1	2.514	3.307	11.7	21.6
2 21	11 58.37	− 7 17.6	2.441	3.323	9.0	21.5
3 2	11 52.24	− 6 45.2	2.392	3.339	6.0	21.3
3 12	11 45.22	− 6 1.5	2.372	3.354	3.0	21.1
3 22	11 37.99	− 5 10.4	2.381	3.370	2.4	21.1
4 1	11 31.25	− 4 16.7	2.419	3.385	5.1	21.3
4 11	11 25.62	− 3 25.5	2.486	3.400	8.1	21.5
4 21	11 21.53	− 2 40.8	2.577	3.415	10.7	21.7

140596 2001 TO_{236} 3 15.7 71°.17 8°.7/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.81	+27 47.3	2.154	2.998	11.5	18.9
2 21	12 0.69	+29 19.6	2.120	3.012	9.7	18.8
3 2	11 53.70	+30 40.1	2.112	3.026	8.7	18.7
3 12	11 45.62	+31 40.8	2.130	3.039	9.0	18.8
3 22	11 37.36	+32 16.4	2.173	3.053	10.4	18.9
4 1	11 29.87	+32 24.6	2.240	3.067	12.3	19.0
4 11	11 23.92	+32 6.8	2.327	3.081	14.2	19.2
4 21	11 19.98	+31 26.3	2.432	3.095	15.8	19.3

277879 2006 JE_{61} 3 15.7 242°.65 7°.4/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.17	+23 38.5	2.250	3.098	11.0	20.9
2 21	12 1.04	+25 2.5	2.186	3.088	8.9	20.7
3 2	11 54.01	+26 20.3	2.147	3.079	7.6	20.6
3 12	11 45.74	+27 23.7	2.136	3.068	7.7	20.6
3 22	11 37.09	+28 6.4	2.151	3.058	9.2	20.7
4 1	11 29.01	+28 24.6	2.192	3.047	11.5	20.8
4 11	11 22.33	+28 17.9	2.255	3.037	13.8	21.0
4 21	11 17.59	+27 48.4	2.336	3.026	15.8	21.1

96686 1999 JP_{53} 3 15.7 143°.74 1°.8/17.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.45	− 6 35.1	1.764	2.575	15.1	19.0
2 21	12 1.48	− 5 57.7	1.689	2.584	11.6	18.8
3 2	11 54.35	− 5 0.3	1.637	2.591	7.4	18.6
3 12	11 45.84	− 3 47.1	1.611	2.598	3.1	18.3
3 22	11 36.93	− 2 25.2	1.614	2.605	2.8	18.3
4 1	11 28.71	− 1 2.8	1.645	2.611	7.0	18.6
4 11	11 22.11	+ 0 11.8	1.702	2.617	11.1	18.8
4 21	11 17.73	+ 1 12.8	1.782	2.622	14.7	19.1

185464 2007 BS_{5} 3 15.7 1°.70 5°.9/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.57	+19 28.9	2.277	3.131	10.6	19.7
2 21	11 58.99	+20 34.2	2.217	3.131	8.2	19.6
3 2	11 52.70	+21 35.7	2.183	3.131	6.4	19.5
3 12	11 45.37	+22 26.3	2.177	3.131	6.1	19.4
3 22	11 37.77	+23 0.7	2.198	3.131	7.6	19.5
4 1	11 30.74	+23 15.2	2.245	3.132	9.9	19.7
4 11	11 25.01	+23 9.0	2.315	3.133	12.4	19.8
4 21	11 21.05	+22 43.4	2.406	3.134	14.5	20.0

406511 2007 VO_{151} 3 15.7 38°.08 11°.6/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.26	+25 56.4	1.357	2.227	15.4	19.4
2 21	12 1.16	+28 15.8	1.328	2.238	12.9	19.2
3 2	11 54.32	+30 20.2	1.322	2.249	11.7	19.2
3 12	11 45.82	+31 55.3	1.340	2.261	12.2	19.2
3 22	11 37.05	+32 51.9	1.380	2.274	14.2	19.4
4 1	11 29.42	+33 7.0	1.440	2.287	16.8	19.6
4 11	11 24.02	+32 43.7	1.518	2.301	19.3	19.8
4 21	11 21.40	+31 48.4	1.611	2.315	21.4	20.0

181239 2005 TC_{190} 3 15.7 287°.74 1°.5/14.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.43	+ 5 0.3	2.394	3.232	10.7	20.6
2 21	11 58.81	+ 5 31.1	2.313	3.228	7.8	20.4
3 2	11 52.59	+ 6 8.3	2.257	3.224	4.6	20.2
3 12	11 45.34	+ 6 47.5	2.230	3.220	1.6	20.0
3 22	11 37.78	+ 7 24.0	2.232	3.216	3.3	20.1
4 1	11 30.67	+ 7 53.6	2.263	3.212	6.6	20.3
4 11	11 24.70	+ 8 12.7	2.320	3.208	9.8	20.5
4 21	11 20.35	+ 8 19.6	2.401	3.204	12.5	20.7

1439 Vogtia 3 15.7 28°.75 1°.1/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.90	+ 4 14.9	2.751	3.587	9.6	16.1
2 21	11 56.72	+ 4 42.8	2.678	3.592	7.0	15.9
3 2	11 51.24	+ 5 16.4	2.631	3.598	4.0	15.7
3 12	11 44.96	+ 5 52.0	2.613	3.604	1.3	15.5
3 22	11 38.47	+ 6 25.7	2.624	3.610	2.7	15.6
4 1	11 32.39	+ 6 54.0	2.665	3.616	5.6	15.8
4 11	11 27.27	+ 7 13.9	2.732	3.623	8.4	16.0
4 21	11 23.53	+ 7 23.6	2.824	3.629	10.8	16.2

232531 2003 SL_{30} 3 15.7 92°.45 0°.7/14.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.99	+ 1 45.0	2.017	2.852	12.6	21.1
2 21	12 0.15	+ 2 16.0	1.944	2.857	9.2	20.9
3 2	11 53.45	+ 2 57.1	1.896	2.862	5.4	20.7
3 12	11 45.58	+ 3 43.5	1.875	2.867	1.4	20.4
3 22	11 37.39	+ 4 29.5	1.883	2.872	3.0	20.6
4 1	11 29.80	+ 5 9.7	1.920	2.877	7.0	20.8
4 11	11 23.59	+ 5 39.5	1.983	2.883	10.6	21.1
4 21	11 19.31	+ 5 56.4	2.068	2.888	13.7	21.3

189305 2005 WT_{190} 3 15.7 263°.99 10°.1/ 3.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.66	+29 29.0	1.948	2.788	12.8	19.9
2 21	12 4.04	+31 6.9	1.886	2.771	11.0	19.8
3 2	11 55.98	+32 33.2	1.848	2.755	10.2	19.7
3 12	11 46.31	+33 37.5	1.835	2.737	10.6	19.7
3 22	11 36.12	+34 12.4	1.847	2.720	12.3	19.7
4 1	11 26.64	+34 14.2	1.881	2.702	14.5	19.8
4 11	11 18.94	+33 44.0	1.936	2.684	16.8	20.0
4 21	11 13.71	+32 46.0	2.006	2.666	18.9	20.1

126092 2001 YR_{101} 3 15.7 133°.18 0°.2/15.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.50	− 0 16.0	1.982	2.811	13.0	20.7
2 21	12 0.55	+ 0 22.0	1.909	2.818	9.6	20.5
3 2	11 53.70	+ 1 12.4	1.861	2.825	5.7	20.3
3 12	11 45.66	+ 2 10.2	1.840	2.832	1.5	20.0
3 22	11 37.28	+ 3 9.3	1.848	2.838	2.8	20.1
4 1	11 29.52	+ 4 3.5	1.885	2.844	6.9	20.4
4 11	11 23.18	+ 4 47.3	1.948	2.850	10.6	20.6
4 21	11 18.81	+ 5 17.6	2.033	2.855	13.8	20.8

173096 2007 TA_{79} 3 15.7 34°.50 0°.4/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.61	− 1 28.0	2.069	2.896	12.6	20.3
2 21	11 59.13	− 1 4.8	1.992	2.898	9.4	20.1
3 2	11 52.85	− 0 29.2	1.938	2.901	5.7	19.9
3 12	11 45.43	+ 0 14.7	1.912	2.903	1.7	19.6
3 22	11 37.66	+ 1 2.0	1.915	2.906	2.5	19.7
4 1	11 30.43	+ 1 47.0	1.946	2.909	6.4	20.0
4 11	11 24.52	+ 2 24.5	2.003	2.912	10.0	20.2
4 21	11 20.46	+ 2 51.2	2.084	2.915	13.1	20.4

123471 2000 WE_{149} 3 15.7 75°.63 4°.7/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.86	+11 24.5	1.796	2.654	12.8	19.3
2 21	12 0.18	+12 46.8	1.744	2.668	9.3	19.2
3 2	11 53.49	+14 11.8	1.718	2.683	6.1	19.0
3 12	11 45.60	+15 30.8	1.719	2.697	4.7	18.9
3 22	11 37.46	+16 35.6	1.748	2.711	6.7	19.1
4 1	11 30.09	+17 20.6	1.803	2.725	10.0	19.3
4 11	11 24.32	+17 43.1	1.882	2.739	13.1	19.5
4 21	11 20.66	+17 43.8	1.981	2.753	15.8	19.7

324023 2005 UO_{383} 3 15.7 231°.22 1°.2/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.97	− 5 5.7	1.995	2.810	13.5	21.4
2 21	11 59.57	− 4 26.9	1.905	2.803	10.3	21.2
3 2	11 53.22	− 3 30.7	1.838	2.796	6.5	20.9
3 12	11 45.56	− 2 21.0	1.799	2.788	2.5	20.7
3 22	11 37.44	− 1 3.8	1.789	2.780	2.5	20.7
4 1	11 29.80	+ 0 13.7	1.807	2.772	6.6	20.9
4 11	11 23.51	+ 1 24.1	1.852	2.764	10.5	21.1
4 21	11 19.17	+ 2 22.0	1.920	2.755	14.0	21.3

500428 2012 TY_{144} 3 15.7 122°.73 1°.5/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.37	+ 4 36.3	2.534	3.368	10.3	22.2
2 21	11 58.59	+ 5 26.3	2.466	3.381	7.5	22.0
3 2	11 52.38	+ 6 22.7	2.426	3.393	4.3	21.9
3 12	11 45.29	+ 7 20.7	2.415	3.405	1.7	21.7
3 22	11 37.99	+ 8 15.3	2.433	3.416	3.3	21.8
4 1	11 31.18	+ 9 1.8	2.482	3.427	6.3	22.0
4 11	11 25.48	+ 9 36.9	2.557	3.438	9.2	22.2
4 21	11 21.31	+ 9 58.7	2.656	3.449	11.7	22.4

121667 1999 XQ_{40} 3 15.7 218°.63 0°.6/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.42	+ 1 37.1	2.604	3.426	10.5	21.0
2 21	12 0.21	+ 2 11.5	2.509	3.415	7.7	20.8
3 2	11 53.43	+ 2 54.7	2.441	3.405	4.6	20.6
3 12	11 45.60	+ 3 42.9	2.401	3.393	1.2	20.3
3 22	11 37.40	+ 4 31.4	2.393	3.381	2.6	20.4
4 1	11 29.56	+ 5 15.8	2.415	3.368	6.0	20.6
4 11	11 22.78	+ 5 51.8	2.464	3.355	9.2	20.8
4 21	11 17.55	+ 6 16.9	2.538	3.341	11.9	21.0

461367 2000 QX_{160} 3 15.7 215°.18 2°.2/17.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.32	− 7 11.7	2.155	2.949	13.4	22.5
2 21	12 2.71	− 6 51.5	2.056	2.939	10.4	22.3
3 2	11 55.09	− 6 14.4	1.980	2.928	6.9	22.0
3 12	11 46.09	− 5 22.7	1.932	2.916	3.3	21.8
3 22	11 36.54	− 4 20.8	1.914	2.904	2.8	21.7
4 1	11 27.42	− 3 15.0	1.925	2.890	6.4	21.9
4 11	11 19.61	− 2 11.9	1.965	2.875	10.1	22.1
4 21	11 13.77	− 1 17.2	2.028	2.859	13.5	22.3

435033 2006 VG_{127} 3 15.7 264°.37 5°.4/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.45	+19 6.9	2.457	3.302	10.3	21.2
2 21	12 1.80	+19 52.3	2.379	3.288	7.9	21.0
3 2	11 54.40	+20 34.2	2.326	3.275	6.0	20.9
3 12	11 45.87	+21 6.5	2.302	3.261	5.5	20.8
3 22	11 36.98	+21 24.3	2.307	3.247	6.9	20.9
4 1	11 28.59	+21 24.4	2.338	3.232	9.3	21.0
4 11	11 21.46	+21 5.9	2.395	3.218	11.8	21.2
4 21	11 16.12	+20 29.9	2.473	3.204	14.1	21.3

25289 1998 WE_{12} 3 15.7 347°.11 1°.8/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.82	+ 4 26.3	1.962	2.807	12.5	17.6
2 21	11 59.39	+ 5 10.2	1.887	2.806	9.1	17.4
3 2	11 53.06	+ 6 2.8	1.837	2.805	5.3	17.2
3 12	11 45.51	+ 6 58.5	1.814	2.804	1.9	17.0
3 22	11 37.59	+ 7 50.9	1.819	2.804	3.9	17.1
4 1	11 30.24	+ 8 34.1	1.852	2.803	7.7	17.3
4 11	11 24.28	+ 9 3.5	1.911	2.802	11.3	17.5
4 21	11 20.27	+ 9 17.2	1.991	2.802	14.4	17.7

284717 2008 TE_{166} 3 15.7 164°.97 0°.7/15.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.70	+ 0 20.7	1.809	2.639	14.0	22.6
2 21	12 3.10	+ 1 9.8	1.735	2.645	10.4	22.4
3 2	11 55.32	+ 2 12.7	1.685	2.650	6.1	22.1
3 12	11 46.13	+ 3 23.2	1.663	2.655	1.6	21.8
3 22	11 36.54	+ 4 34.0	1.669	2.658	3.3	22.0
4 1	11 27.64	+ 5 37.5	1.705	2.661	7.8	22.2
4 11	11 20.37	+ 6 27.8	1.766	2.663	11.8	22.5
4 21	11 15.34	+ 7 1.5	1.849	2.664	15.2	22.7

105632 2000 SQ_{8} 3 15.7 98°.15 0°.5/15.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.14	− 0 3.7	1.950	2.782	13.1	20.4
2 21	12 0.24	+ 0 46.0	1.887	2.798	9.6	20.2
3 2	11 53.48	+ 1 48.1	1.849	2.814	5.6	20.0
3 12	11 45.61	+ 2 56.9	1.838	2.830	1.4	19.8
3 22	11 37.49	+ 4 5.5	1.856	2.846	3.0	19.9
4 1	11 30.04	+ 5 7.3	1.903	2.861	7.0	20.2
4 11	11 24.06	+ 5 57.0	1.976	2.876	10.6	20.4
4 21	11 20.02	+ 6 31.7	2.072	2.891	13.7	20.7

461412 2001 TB_{93} 3 15.7 145°.79 1°.6/14.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.70	+ 5 49.1	2.137	2.968	12.1	21.5
2 21	12 4.21	+ 6 8.7	2.066	2.977	8.8	21.3
3 2	11 55.81	+ 6 33.8	2.020	2.986	5.2	21.1
3 12	11 46.24	+ 6 59.8	2.004	2.994	1.9	20.9
3 22	11 36.39	+ 7 21.9	2.018	3.002	3.6	21.1
4 1	11 27.21	+ 7 36.2	2.061	3.009	7.2	21.3
4 11	11 19.50	+ 7 39.7	2.131	3.016	10.6	21.5
4 21	11 13.80	+ 7 31.4	2.224	3.022	13.5	21.7

165162 2000 QS_{69} 3 15.7 52°.28 2°.1/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.31	− 3 50.2	1.427	2.257	17.1	20.2
2 21	12 4.08	− 3 58.5	1.356	2.261	13.1	20.0
3 2	11 56.13	− 3 49.1	1.306	2.265	8.4	19.7
3 12	11 46.40	− 3 24.9	1.281	2.269	3.5	19.5
3 22	11 36.11	− 2 51.2	1.282	2.273	3.4	19.5
4 1	11 26.66	− 2 15.1	1.310	2.278	8.2	19.7
4 11	11 19.25	− 1 43.9	1.361	2.282	12.9	20.0
4 21	11 14.60	− 1 22.9	1.434	2.287	16.9	20.3

419644 2010 TU_{28} 3 15.7 207°.82 0°.4/16.1 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.75	− 1 45.5	2.098	2.915	12.8	22.7
2 21	12 2.27	− 1 17.0	2.008	2.909	9.6	22.5
3 2	11 54.80	− 0 35.3	1.942	2.902	5.9	22.2
3 12	11 46.01	+ 0 15.7	1.904	2.895	1.8	21.9
3 22	11 36.75	+ 1 10.7	1.896	2.887	2.6	22.0
4 1	11 27.97	+ 2 3.7	1.917	2.878	6.7	22.2
4 11	11 20.55	+ 2 49.0	1.966	2.868	10.5	22.4
4 21	11 15.10	+ 3 22.7	2.037	2.858	13.8	22.6

90852 1996 GS_4 3 15.7 151°.08 3°.7/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 10.57	+ 9 17.5	1.804	2.650	13.3	20.4
2 21	12 4.42	+10 15.4	1.740	2.659	9.7	20.2
3 2	11 56.07	+11 18.0	1.702	2.667	6.0	20.0
3 12	11 46.34	+12 17.6	1.691	2.675	3.7	19.8
3 22	11 36.29	+13 6.8	1.709	2.682	5.7	20.0
4 1	11 27.03	+13 39.9	1.755	2.689	9.4	20.2
4 11	11 19.50	+13 54.0	1.826	2.694	12.9	20.4
4 21	11 14.29	+13 49.1	1.917	2.699	15.9	20.6

6463 Isoda 3 15.7 171°.21 5°.3/21.5 18

2 11	12 7.25	−16 43.4	2.343	3.085	13.9	16.8
2 21	12 1.77	−17 0.0	2.253	3.088	11.5	16.6
3 2	11 54.45	−16 56.8	2.185	3.091	8.8	16.4
3 12	11 45.91	−16 33.8	2.143	3.094	6.4	16.3
3 22	11 36.96	−15 52.9	2.128	3.096	5.3	16.2
4 1	11 28.47	−14 58.6	2.143	3.097	6.6	16.3
4 11	11 21.25	−13 57.2	2.185	3.098	9.1	16.5
4 21	11 15.87	−12 55.3	2.252	3.098	11.8	16.6

206243 2002 XO_{16} 3 15.7 157°.86 1°.9/17.7 17

2 11	12 5.49	− 5 31.2	2.409	3.209	11.9	20.6
2 21	12 0.32	− 5 29.4	2.325	3.213	9.1	20.4
3 2	11 53.50	− 5 15.0	2.265	3.215	6.0	20.2
3 12	11 45.64	− 4 50.1	2.233	3.218	2.8	20.0
3 22	11 37.44	− 4 18.2	2.231	3.221	2.5	20.0
4 1	11 29.71	− 3 43.4	2.258	3.223	5.5	20.2
4 11	11 23.14	− 3 10.5	2.313	3.225	8.7	20.4
4 21	11 18.25	− 2 43.2	2.392	3.227	11.6	20.5

175225 2005 GE_{111} 3 15.7 273°.37 4°.9/10.9 17

2 11	12 6.32	+11 0.2	1.747	2.604	13.2	20.5
2 21	12 1.72	+12 20.4	1.658	2.581	9.8	20.2
3 2	11 54.73	+13 47.7	1.593	2.558	6.4	19.9
3 12	11 46.05	+15 13.2	1.556	2.535	4.9	19.8
3 22	11 36.66	+16 27.1	1.546	2.511	7.2	19.9
4 1	11 27.75	+17 21.3	1.563	2.487	11.1	20.0
4 11	11 20.42	+17 51.2	1.603	2.462	14.9	20.2
4 21	11 15.43	+17 55.9	1.662	2.437	18.3	20.4

383695 2007 TZ_{385} 3 15.7 107°.60 2°.1/12.9 18

2 11	12 3.70	+ 6 16.0	2.609	3.445	10.0	21.9
2 21	11 58.76	+ 7 18.2	2.552	3.467	7.2	21.8
3 2	11 52.44	+ 8 25.4	2.522	3.489	4.2	21.6
3 12	11 45.32	+ 9 32.3	2.522	3.510	2.1	21.5
3 22	11 38.05	+10 33.6	2.552	3.530	3.7	21.6
4 1	11 31.29	+11 24.9	2.613	3.550	6.5	21.8
4 11	11 25.65	+12 3.1	2.700	3.570	9.2	22.0
4 21	11 21.49	+12 27.0	2.810	3.589	11.5	22.2

502863 2015 DL_{202} 3 15.7 135°.58 4°.7/20.9 17

2 11	12 7.08	−14 45.1	2.433	3.184	13.2	21.5
2 21	12 1.51	−15 5.9	2.350	3.194	10.8	21.4
3 2	11 54.23	−15 9.1	2.290	3.204	8.1	21.2
3 12	11 45.84	−14 54.9	2.256	3.213	5.7	21.1
3 22	11 37.11	−14 25.5	2.251	3.222	4.7	21.0
4 1	11 28.86	−13 44.8	2.274	3.230	6.2	21.1
4 11	11 21.84	−12 58.3	2.326	3.238	8.6	21.3
4 21	11 16.57	−12 11.5	2.402	3.246	11.2	21.5

455953 2005 UB_{516} 3 15.7 351°.52 1°.7/13.9 17

2 11	11 59.90	+ 0 2.2	1.521	2.374	15.0	20.5
2 21	11 57.00	+ 1 37.6	1.447	2.370	11.0	20.3
3 2	11 51.86	+ 3 32.9	1.397	2.367	6.4	20.0
3 12	11 45.23	+ 5 38.7	1.373	2.365	1.9	19.7
3 22	11 38.13	+ 7 43.4	1.377	2.363	4.5	19.9
4 1	11 31.68	+ 9 34.9	1.407	2.362	9.3	20.1
4 11	11 26.87	+11 4.4	1.462	2.361	13.7	20.4
4 21	11 24.34	+12 7.4	1.537	2.361	17.4	20.6

341345 2007 TF_{47} 3 15.7 56°.76 1°.1/16.8 17

2 11	12 4.03	− 3 31.0	1.990	2.810	13.3	20.6
2 21	11 59.42	− 3 11.1	1.923	2.825	10.0	20.4
3 2	11 53.02	− 2 37.2	1.881	2.839	6.2	20.2
3 12	11 45.50	− 1 53.2	1.865	2.854	2.3	20.0
3 22	11 37.73	− 1 4.2	1.878	2.869	2.4	20.0
4 1	11 30.58	− 0 16.0	1.919	2.884	6.3	20.3
4 11	11 24.84	+ 0 25.8	1.986	2.899	9.9	20.5
4 21	11 20.99	+ 0 57.4	2.077	2.915	12.9	20.8

455608 2004 TY_{148} 3 15.7 141°.04 1°.9/17.4 18

2 11	12 7.24	− 6 24.2	1.687	2.500	15.6	21.5
2 21	12 2.17	− 5 53.1	1.613	2.508	12.0	21.3
3 2	11 54.84	− 5 1.8	1.561	2.516	7.7	21.0
3 12	11 46.05	− 3 54.5	1.536	2.523	3.3	20.8
3 22	11 36.83	− 2 37.8	1.538	2.530	2.9	20.8
4 1	11 28.34	− 1 20.4	1.569	2.536	7.3	21.0
4 11	11 21.55	− 0 10.5	1.626	2.542	11.5	21.3
4 21	11 17.09	+ 0 46.1	1.705	2.547	15.1	21.5

3395 Jitka 3 15.7 58°.56 0°.4/15.3 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.96	+ 1 16.0	1.864	2.700	13.4	16.1
2 21	12 1.02	+ 1 38.0	1.792	2.705	9.9	15.9
3 2	11 54.06	+ 2 10.8	1.744	2.710	5.9	15.6
3 12	11 45.82	+ 2 49.7	1.723	2.715	1.5	15.4
3 22	11 37.22	+ 3 29.3	1.731	2.721	3.0	15.5
4 1	11 29.27	+ 4 3.8	1.766	2.726	7.2	15.7
4 11	11 22.85	+ 4 28.4	1.827	2.732	11.1	16.0
4 21	11 18.50	+ 4 40.5	1.910	2.737	14.3	16.2

337778 2001 US_{173} 3 15.7 106°.50 3°.7/11.6 18

2 11	12 5.99	+12 44.6	2.357	3.203	10.6	20.8
2 21	12 0.63	+13 26.4	2.294	3.211	7.8	20.6
3 2	11 53.65	+14 8.6	2.257	3.219	5.1	20.4
3 12	11 45.68	+14 45.7	2.249	3.227	3.7	20.4
3 22	11 37.50	+15 12.9	2.270	3.235	5.3	20.5
4 1	11 29.90	+15 26.7	2.320	3.243	8.0	20.6
4 11	11 23.57	+15 25.4	2.395	3.251	10.7	20.8
4 21	11 18.98	+15 9.2	2.491	3.258	13.1	21.0

64438 2001 VH_{21} 3 15.7 22°.13 6°.0/22.4 18

2 11	12 0.85	−17 47.0	1.896	2.658	16.1	18.7
2 21	11 57.36	−17 50.5	1.818	2.665	13.3	18.5
3 2	11 51.93	−17 28.4	1.761	2.673	10.3	18.3
3 12	11 45.25	−16 41.3	1.727	2.681	7.4	18.2
3 22	11 38.19	−15 33.0	1.719	2.690	6.0	18.1
4 1	11 31.72	−14 9.8	1.738	2.699	7.2	18.2
4 11	11 26.68	−12 40.8	1.783	2.709	10.0	18.4
4 21	11 23.63	−11 14.3	1.851	2.720	12.9	18.6

436907 2012 TG_{77} 3 15.7 99°.26 5°.4/22.9 17

2 11	12 2.11	−19 30.8	2.491	3.221	13.5	21.5
2 21	11 57.87	−19 26.5	2.407	3.230	11.3	21.4
3 2	11 52.07	−19 0.9	2.343	3.239	8.8	21.2
3 12	11 45.27	−18 14.7	2.305	3.248	6.6	21.1
3 22	11 38.19	−17 10.6	2.295	3.257	5.4	21.0
4 1	11 31.57	−15 53.6	2.313	3.266	6.2	21.1
4 11	11 26.09	−14 30.4	2.358	3.275	8.3	21.2
4 21	11 22.22	−13 7.6	2.429	3.284	10.7	21.4

248291 2005 KS_{10} 3 15.7 245°.57 1°.7/18.2 17

2 11	12 1.81	− 8 36.8	2.886	3.670	10.6	21.6
2 21	11 57.53	− 7 52.0	2.774	3.651	8.2	21.4
3 2	11 51.84	− 6 51.8	2.687	3.632	5.5	21.2
3 12	11 45.23	− 5 38.9	2.630	3.613	2.7	21.0
3 22	11 38.24	− 4 17.2	2.603	3.593	2.2	20.9
4 1	11 31.52	− 2 52.2	2.607	3.572	4.9	21.1
4 11	11 25.68	− 1 29.4	2.641	3.551	7.9	21.2
4 21	11 21.18	− 0 13.9	2.700	3.529	10.6	21.4

433831 2015 BV_{240} 3 15.7 214°.50 0°.1/15.7 17

2 11	12 4.61	− 0 57.3	2.070	2.896	12.7	21.8
2 21	11 59.95	− 0 22.3	1.985	2.893	9.4	21.6
3 2	11 53.42	+ 0 25.5	1.926	2.889	5.7	21.4
3 12	11 45.67	+ 1 21.7	1.894	2.885	1.6	21.1
3 22	11 37.51	+ 2 20.7	1.891	2.881	2.6	21.2
4 1	11 29.86	+ 3 16.3	1.916	2.877	6.7	21.4
4 11	11 23.52	+ 4 2.8	1.969	2.873	10.4	21.6
4 21	11 19.07	+ 4 36.7	2.044	2.868	13.6	21.8

435356 2007 VF_{230} 3 15.7 69°.61 1°.3/14.3 17

2 11	12 4.10	+ 3 39.5	2.138	2.976	11.8	21.7
2 21	11 59.40	+ 4 15.4	2.070	2.985	8.6	21.5
3 2	11 52.99	+ 4 59.3	2.027	2.995	5.0	21.3
3 12	11 45.53	+ 5 46.1	2.012	3.004	1.6	21.1
3 22	11 37.80	+ 6 30.6	2.026	3.013	3.3	21.3
4 1	11 30.65	+ 7 7.6	2.069	3.022	6.9	21.5
4 11	11 24.81	+ 7 33.4	2.138	3.031	10.2	21.7
4 21	11 20.75	+ 7 45.8	2.229	3.041	13.1	21.9

389239 2009 FQ_7 3 15.7 93°.32 1°.3/14.1 17

2 11	12 1.74	+ 2 28.3	2.320	3.156	11.1	20.8
2 21	11 57.58	+ 3 29.4	2.250	3.165	8.1	20.6
3 2	11 51.87	+ 4 39.7	2.207	3.174	4.7	20.4
3 12	11 45.22	+ 5 53.8	2.192	3.183	1.5	20.2
3 22	11 38.32	+ 7 5.6	2.206	3.192	3.2	20.4
4 1	11 31.92	+ 8 9.4	2.250	3.200	6.6	20.6
4 11	11 26.67	+ 9 0.7	2.320	3.209	9.7	20.8
4 21	11 23.02	+ 9 36.9	2.414	3.217	12.4	21.0

426751 2013 TC_{92} 3 15.7 195°.79 3°.7/19.4 17

2 11	12 7.72	−10 52.9	2.316	3.089	13.2	21.8
2 21	12 2.13	−11 3.0	2.222	3.087	10.5	21.6
3 2	11 54.70	−10 56.7	2.152	3.084	7.5	21.4
3 12	11 46.03	−10 34.9	2.108	3.080	4.6	21.3
3 22	11 36.90	−10 0.1	2.094	3.076	3.8	21.2
4 1	11 28.21	− 9 16.9	2.109	3.072	6.1	21.3
4 11	11 20.77	− 8 30.8	2.152	3.067	9.2	21.5
4 21	11 15.16	− 7 47.2	2.220	3.061	12.1	21.7

145458 2005 SF_{22} 3 15.7 285.°57 3.°2/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.54	+10 46.7	2.313	3.159	10.8	19.5
2 21	12 0.55	+11 23.1	2.222	3.141	8.0	19.3
3 2	11 53.76	+12 2.2	2.157	3.122	5.0	19.1
3 12	11 45.77	+12 38.9	2.120	3.103	3.2	18.9
3 22	11 37.34	+13 7.8	2.113	3.085	4.9	19.0
4 1	11 29.32	+13 24.6	2.133	3.066	8.1	19.1
4 11	11 22.51	+13 26.7	2.180	3.047	11.2	19.3
4 21	11 17.47	+13 13.5	2.248	3.028	13.9	19.5

500501 2012 TW_{282} 3 15.7 121.°26 3.°5/20.9 17

2 11	12 2.20	−14 58.1	2.786	3.536	11.7	21.7
2 21	11 57.71	−14 31.4	2.704	3.551	9.4	21.5
3 2	11 51.87	−13 47.2	2.647	3.566	6.9	21.4
3 12	11 45.21	−12 47.5	2.617	3.580	4.6	21.3
3 22	11 38.35	−11 35.8	2.616	3.594	3.6	21.2
4 1	11 31.92	−10 17.0	2.645	3.607	5.0	21.3
4 11	11 26.50	− 8 57.1	2.703	3.620	7.4	21.5
4 21	11 22.50	− 7 41.3	2.788	3.633	9.8	21.7

192564 1998 WL_{22} 3 15.7 168.°92 1.°8/17.5 18

2 11	12 9.03	− 6 18.7	1.965	2.766	14.2	21.8
2 21	12 3.26	− 5 50.3	1.883	2.772	10.9	21.6
3 2	11 55.41	− 5 4.3	1.825	2.777	7.0	21.3
3 12	11 46.22	− 4 4.0	1.795	2.781	3.0	21.1
3 22	11 36.61	− 2 55.3	1.793	2.784	2.7	21.1
4 1	11 27.62	− 1 45.1	1.822	2.786	6.6	21.3
4 11	11 20.14	− 0 40.6	1.877	2.787	10.5	21.6
4 21	11 14.77	+ 0 13.0	1.956	2.788	13.9	21.8

436290 2010 DV_{30} 3 15.7 349.°20 6.°3/ 8.0 17

2 11	12 2.60	+17 36.5	2.032	2.893	11.4	20.9
2 21	11 58.53	+19 8.9	1.972	2.891	8.8	20.8
3 2	11 52.58	+20 39.6	1.938	2.889	6.7	20.6
3 12	11 45.44	+21 59.9	1.931	2.888	6.5	20.6
3 22	11 37.97	+23 2.4	1.951	2.887	8.3	20.7
4 1	11 31.08	+23 42.0	1.997	2.886	10.9	20.9
4 11	11 25.58	+23 57.1	2.066	2.885	13.6	21.1
4 21	11 22.01	+23 48.9	2.153	2.885	15.9	21.2

82702 2001 PZ_{39} 3 15.7 108.°22 4.°2/20.6 18

2 11	12 3.68	−13 46.4	2.345	3.110	13.3	19.5
2 21	11 59.09	−13 48.6	2.261	3.116	10.7	19.3
3 2	11 52.83	−13 32.4	2.200	3.123	7.9	19.1
3 12	11 45.51	−12 58.8	2.165	3.130	5.3	19.0
3 22	11 37.86	−12 10.9	2.159	3.136	4.2	18.9
4 1	11 30.68	−11 13.5	2.181	3.143	5.9	19.0
4 11	11 24.70	−10 12.7	2.230	3.149	8.6	19.2
4 21	11 20.42	− 9 14.4	2.304	3.155	11.4	19.4

59772 1999 NN_{18} 3 15.7 225.°85 6.°3/ 7.6 18

2 11	12 6.20	+19 46.3	2.331	3.180	10.6	19.7
2 21	12 1.05	+21 13.6	2.260	3.169	8.3	19.6
3 2	11 54.06	+22 38.3	2.215	3.158	6.6	19.4
3 12	11 45.86	+23 52.5	2.199	3.147	6.5	19.4
3 22	11 37.26	+24 49.4	2.210	3.134	8.1	19.5
4 1	11 29.15	+25 24.5	2.249	3.122	10.5	19.6
4 11	11 22.32	+25 36.4	2.310	3.108	13.0	19.7
4 21	11 17.35	+25 26.2	2.391	3.095	15.2	19.9

502038 2015 AO_{130} 3 15.7 211.°08 2.°7/18.5 17

2 11	12 6.76	− 8 24.4	2.300	3.088	12.8	21.9
2 21	12 1.45	− 8 20.2	2.204	3.081	10.0	21.7
3 2	11 54.31	− 8 0.3	2.132	3.074	6.9	21.5
3 12	11 45.94	− 7 26.4	2.087	3.067	3.7	21.3
3 22	11 37.11	− 6 42.1	2.071	3.059	3.0	21.2
4 1	11 28.69	− 5 52.0	2.085	3.050	5.9	21.4
4 11	11 21.49	− 5 2.1	2.127	3.041	9.3	21.6
4 21	11 16.10	− 4 17.5	2.193	3.031	12.4	21.8

266809 2009 SJ_{359} 3 15.7 87.°51 1.°0/14.9 18

2 11	12 11.79	+ 4 33.1	1.832	2.667	13.7	20.3
2 21	12 5.28	+ 4 33.2	1.765	2.677	10.1	20.1
3 2	11 56.58	+ 4 40.0	1.721	2.687	5.9	19.9
3 12	11 46.54	+ 4 49.2	1.706	2.697	1.7	19.6
3 22	11 36.18	+ 4 56.4	1.719	2.708	3.4	19.8
4 1	11 26.62	+ 4 57.6	1.762	2.718	7.6	20.0
4 11	11 18.79	+ 4 49.8	1.830	2.728	11.4	20.3
4 21	11 13.25	+ 4 31.6	1.921	2.738	14.7	20.5

43939 1996 TT_{53} 3 15.7 262.°11 0.°2/15.5 18

2 11	12 7.80	− 0 11.7	1.727	2.559	14.5	20.3
2 21	12 2.86	+ 0 20.3	1.628	2.539	10.9	20.1
3 2	11 55.47	+ 1 7.6	1.553	2.518	6.6	19.8
3 12	11 46.32	+ 2 5.5	1.505	2.497	1.8	19.4
3 22	11 36.40	+ 3 7.3	1.485	2.475	3.3	19.5
4 1	11 26.92	+ 4 5.2	1.492	2.453	8.3	19.7
4 11	11 19.02	+ 4 52.1	1.525	2.430	12.8	19.9
4 21	11 13.48	+ 5 23.4	1.579	2.406	16.8	20.1

125455 2001 WD_3 3 15.7 15.°27 0.°9/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.46	− 2 31.6	1.142	1.998	18.8	19.9
2 21	12 0.95	− 2 11.1	1.080	2.000	14.1	19.6
3 2	11 54.47	− 1 28.8	1.037	2.004	8.7	19.3
3 12	11 46.03	− 0 30.4	1.017	2.008	2.8	18.9
3 22	11 37.01	+ 0 34.8	1.021	2.013	3.6	19.0
4 1	11 28.98	+ 1 36.4	1.049	2.020	9.4	19.4
4 11	11 23.22	+ 2 24.7	1.099	2.026	14.6	19.7
4 21	11 20.45	+ 2 54.5	1.168	2.034	19.0	19.9

518389 2017 QA_{14} 3 15.7 121.°64 1.°0/16.8 17

2 11	12 4.37	− 4 0.1	2.040	2.857	13.2	21.6
2 21	11 59.74	− 3 29.7	1.964	2.863	9.9	21.4
3 2	11 53.27	− 2 44.4	1.911	2.869	6.2	21.2
3 12	11 45.64	− 1 48.1	1.886	2.875	2.3	20.9
3 22	11 37.68	− 0 46.3	1.889	2.880	2.4	20.9
4 1	11 30.27	+ 0 14.5	1.921	2.886	6.3	21.2
4 11	11 24.23	+ 1 8.4	1.980	2.891	10.0	21.4
4 21	11 20.06	+ 1 51.0	2.062	2.896	13.2	21.6

217961 2001 UO_{167} 3 15.7 161.°70 2.°6/18.4 16

2 11	12 8.12	− 7 49.2	2.297	3.084	12.8	21.0
2 21	12 2.34	− 7 49.6	2.213	3.091	10.0	20.8
3 2	11 54.78	− 7 35.2	2.153	3.096	6.7	20.6
3 12	11 46.06	− 7 7.8	2.121	3.101	3.6	20.4
3 22	11 36.97	− 6 30.8	2.118	3.105	3.0	20.4
4 1	11 28.40	− 5 49.0	2.145	3.109	5.8	20.6
4 11	11 21.12	− 5 7.5	2.200	3.112	9.1	20.8
4 21	11 15.66	− 4 31.2	2.279	3.115	12.0	21.0

239733 2009 CY_{15} 3 15.7 46.°37 1.°6/13.7 18

2 11	12 0.92	+ 2 30.4	2.090	2.933	11.9	20.0
2 21	11 57.16	+ 3 46.5	2.020	2.938	8.6	19.8
3 2	11 51.72	+ 5 13.7	1.974	2.943	5.0	19.5
3 12	11 45.22	+ 6 45.2	1.958	2.948	1.8	19.3
3 22	11 38.42	+ 8 13.7	1.970	2.954	3.7	19.5
4 1	11 32.14	+ 9 32.0	2.011	2.959	7.4	19.7
4 11	11 27.12	+10 34.8	2.078	2.965	10.8	19.9
4 21	11 23.83	+11 19.3	2.167	2.971	13.7	20.1

374006 2004 CT_{22} 3 15.7 71.°78 1.°0/14.7 18

2 11	12 6.57	+ 2 36.1	2.052	2.885	12.5	21.8
2 21	12 1.11	+ 3 14.3	2.002	2.914	9.0	21.6
3 2	11 53.93	+ 4 0.9	1.977	2.944	5.2	21.5
3 12	11 45.79	+ 4 50.6	1.981	2.973	1.5	21.2
3 22	11 37.54	+ 5 37.8	2.014	3.001	3.1	21.4
4 1	11 30.02	+ 6 17.3	2.076	3.030	6.8	21.7
4 11	11 23.96	+ 6 45.5	2.164	3.058	10.1	22.0
4 21	11 19.78	+ 7 0.6	2.275	3.086	12.9	22.2

138545 2000 QD_{11} 3 15.7 218.°53 2.°1/12.8 18

2 11	12 2.14	+ 6 13.5	2.607	3.447	9.9	20.3
2 21	11 57.82	+ 7 16.4	2.524	3.441	7.2	20.1
3 2	11 52.04	+ 8 25.9	2.467	3.435	4.3	19.9
3 12	11 45.31	+ 9 36.7	2.440	3.428	2.2	19.8
3 22	11 38.27	+10 43.2	2.443	3.421	3.8	19.9
4 1	11 31.61	+11 40.3	2.476	3.414	6.8	20.0
4 11	11 25.96	+12 24.3	2.535	3.406	9.7	20.2
4 21	11 21.79	+12 53.3	2.617	3.398	12.2	20.4

200608 2001 RW_{148} 3 15.7 214.°56 5.°0/10.9 18

2 11	12 9.86	+12 1.3	1.755	2.607	13.4	21.1
2 21	12 4.20	+13 16.9	1.679	2.599	9.9	20.8
3 2	11 56.15	+14 36.7	1.629	2.592	6.6	20.6
3 12	11 46.48	+15 51.6	1.606	2.583	5.1	20.5
3 22	11 36.28	+16 52.8	1.611	2.574	7.2	20.6
4 1	11 26.73	+17 33.3	1.643	2.563	10.9	20.8
4 11	11 18.91	+17 50.0	1.698	2.553	14.5	21.0
4 21	11 13.50	+17 43.3	1.773	2.541	17.6	21.2

153867 2001 XC_{79} 3 15.7 86.°41 0.°1/15.8 18

2 11	12 6.53	− 1 55.4	1.884	2.708	13.8	20.8
2 21	12 1.25	− 1 3.6	1.829	2.735	10.2	20.6
3 2	11 54.10	+ 0 2.1	1.799	2.762	6.0	20.5
3 12	11 45.86	+ 1 15.8	1.797	2.788	1.7	20.2
3 22	11 37.45	+ 2 30.3	1.824	2.814	2.7	20.3
4 1	11 29.82	+ 3 38.6	1.879	2.839	6.9	20.6
4 11	11 23.74	+ 4 35.0	1.961	2.864	10.5	20.9
4 21	11 19.68	+ 5 16.2	2.066	2.889	13.6	21.2

455673 2005 DG_1 3 15.7 51.°95 1.°5/16.8 16

2 11	12 9.62	− 2 46.4	1.290	2.129	18.0	21.8
2 21	12 4.29	− 2 47.5	1.237	2.148	13.6	21.6
3 2	11 56.22	− 2 30.4	1.205	2.167	8.4	21.4
3 12	11 46.48	− 1 59.6	1.198	2.188	3.1	21.1
3 22	11 36.43	− 1 21.7	1.216	2.208	3.3	21.2
4 1	11 27.51	− 0 44.5	1.260	2.229	8.4	21.5
4 11	11 20.83	− 0 15.1	1.328	2.250	13.0	21.8
4 21	11 16.98	+ 0 1.9	1.416	2.271	16.9	22.1

457196 2008 HZ_{17} 3 15.7 8°.50 2°.9/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	11 53.56	+ 1 15.3	0.945	1.834	18.7	19.6
2 21	11 53.15	+ 2 55.5	0.895	1.837	13.6	19.3
3 2	11 49.89	+ 4 59.6	0.865	1.842	7.8	19.0
3 12	11 44.79	+ 7 13.2	0.857	1.849	3.0	18.7
3 22	11 39.22	+ 9 18.9	0.872	1.858	6.4	18.9
4 1	11 34.64	+11 0.9	0.909	1.870	12.0	19.3
4 11	11 32.24	+12 9.6	0.965	1.884	17.0	19.6
4 21	11 32.61	+12 42.8	1.039	1.900	21.2	19.9

368710 2005 TK_{17} 3 15.7 189°.40 0°.0/15.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.94	− 0 51.7	2.228	3.048	12.1	22.7
2 21	12 0.81	− 0 13.8	2.143	3.047	9.0	22.5
3 2	11 53.90	+ 0 36.1	2.084	3.046	5.4	22.3
3 12	11 45.84	+ 1 33.7	2.052	3.044	1.5	22.0
3 22	11 37.40	+ 2 33.6	2.051	3.041	2.5	22.1
4 1	11 29.45	+ 3 30.0	2.079	3.038	6.4	22.3
4 11	11 22.76	+ 4 17.6	2.135	3.035	9.9	22.5
4 21	11 17.86	+ 4 53.0	2.214	3.030	13.0	22.7

469914 2005 YE_{87} 3 15.7 59°.66 1°.6/14.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.93	+ 3 26.3	1.812	2.657	13.4	21.5
2 21	12 0.35	+ 4 10.8	1.742	2.660	9.8	21.3
3 2	11 53.73	+ 5 5.6	1.695	2.663	5.7	21.0
3 12	11 45.80	+ 6 4.5	1.676	2.667	1.9	20.8
3 22	11 37.50	+ 7 0.7	1.684	2.670	3.9	20.9
4 1	11 29.85	+ 7 47.5	1.720	2.674	8.0	21.2
4 11	11 23.73	+ 8 20.1	1.782	2.677	11.8	21.4
4 21	11 19.71	+ 8 36.2	1.864	2.681	15.0	21.6

240707 2005 GO_{78} 3 15.7 278°.94 7°.6/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.29	+23 31.9	2.200	3.050	11.1	20.0
2 21	12 0.56	+25 0.0	2.129	3.033	9.1	19.9
3 2	11 53.86	+26 22.5	2.083	3.015	7.7	19.7
3 12	11 45.85	+27 31.1	2.064	2.997	7.9	19.7
3 22	11 37.39	+28 18.8	2.072	2.979	9.5	19.8
4 1	11 29.43	+28 41.3	2.105	2.960	11.9	19.9
4 11	11 22.85	+28 37.7	2.159	2.942	14.3	20.0
4 21	11 18.24	+28 9.9	2.232	2.924	16.4	20.2

393925 2005 UX_{94} 3 15.7 211°.26 0°.5/15.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.05	+ 1 0.2	1.818	2.645	14.1	22.6
2 21	12 5.03	+ 1 29.8	1.730	2.638	10.5	22.4
3 2	11 56.65	+ 2 11.9	1.666	2.630	6.3	22.1
3 12	11 46.65	+ 3 1.6	1.629	2.621	1.7	21.8
3 22	11 36.04	+ 3 52.7	1.622	2.611	3.3	21.9
4 1	11 26.01	+ 4 38.4	1.643	2.600	8.0	22.1
4 11	11 17.62	+ 5 12.9	1.691	2.589	12.2	22.3
4 21	11 11.57	+ 5 32.9	1.760	2.576	15.8	22.5

370000 1999 TR_{126} 3 15.7 125°.21 0°.2/15.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.13	+ 0 3.9	2.412	3.231	11.3	21.9
2 21	12 0.69	+ 0 37.0	2.344	3.248	8.3	21.7
3 2	11 53.70	+ 1 19.6	2.301	3.264	4.9	21.5
3 12	11 45.76	+ 2 7.6	2.287	3.279	1.3	21.3
3 22	11 37.62	+ 2 56.4	2.304	3.294	2.4	21.4
4 1	11 30.02	+ 3 41.1	2.351	3.308	5.9	21.6
4 11	11 23.64	+ 4 17.6	2.425	3.322	9.0	21.8
4 21	11 18.93	+ 4 43.4	2.523	3.335	11.7	22.0

297560 2001 RT_{3} 3 15.7 234°.16 2°.0/17.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.02	− 4 23.3	1.711	2.525	15.4	21.6
2 21	12 5.24	− 4 24.8	1.617	2.513	11.9	21.4
3 2	11 56.90	− 4 10.1	1.545	2.501	7.7	21.1
3 12	11 46.75	− 3 41.3	1.500	2.488	3.3	20.8
3 22	11 35.84	− 3 2.8	1.483	2.474	3.2	20.7
4 1	11 25.45	− 2 21.1	1.494	2.460	7.7	21.0
4 11	11 16.75	− 1 43.0	1.531	2.445	12.2	21.2
4 21	11 10.56	− 1 14.1	1.590	2.429	16.2	21.4

191363 2003 QS_{93} 3 15.7 187°.14 1°.5/17.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.45	− 4 16.0	2.573	3.371	11.3	21.0
2 21	12 1.72	− 4 12.7	2.483	3.371	8.6	20.8
3 2	11 54.37	− 3 58.3	2.418	3.370	5.5	20.6
3 12	11 45.97	− 3 35.0	2.381	3.368	2.4	20.4
3 22	11 37.22	− 3 5.9	2.375	3.366	2.2	20.4
4 1	11 28.89	− 2 34.9	2.400	3.363	5.4	20.6
4 11	11 21.67	− 2 6.3	2.453	3.360	8.5	20.8
4 21	11 16.08	− 1 43.3	2.531	3.356	11.3	20.9

434559 2005 TR_{139} 3 15.7 274°.21 1°.0/14.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.53	+ 2 42.7	2.447	3.280	10.7	21.4
2 21	11 58.25	+ 3 21.8	2.353	3.265	7.9	21.2
3 2	11 52.37	+ 4 9.6	2.284	3.251	4.6	21.0
3 12	11 45.44	+ 5 2.1	2.244	3.235	1.4	20.7
3 22	11 38.11	+ 5 54.1	2.233	3.220	2.9	20.8
4 1	11 31.13	+ 6 40.7	2.252	3.205	6.4	21.0
4 11	11 25.22	+ 7 17.5	2.297	3.190	9.7	21.2
4 21	11 20.88	+ 7 41.9	2.366	3.174	12.5	21.3

260462 2005 AX_{75} 3 15.7 338°.17 4°.1/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 1.87	+ 6 38.4	1.190	2.066	16.6	20.1
2 21	11 59.09	+ 7 50.7	1.120	2.054	12.2	19.8
3 2	11 53.45	+ 9 16.9	1.071	2.044	7.4	19.5
3 12	11 45.81	+10 45.8	1.046	2.034	4.1	19.3
3 22	11 37.47	+12 5.1	1.045	2.025	7.1	19.4
4 1	11 29.93	+13 3.6	1.067	2.017	12.1	19.7
4 11	11 24.51	+13 34.5	1.110	2.011	17.0	19.9
4 21	11 22.00	+13 36.5	1.171	2.005	21.1	20.2

12860 Turney 3 15.7 256°.90 2°.3/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.13	+ 5 36.7	1.707	2.553	13.9	18.5
2 21	12 3.02	+ 6 17.0	1.622	2.541	10.3	18.2
3 2	11 55.51	+ 7 6.8	1.561	2.529	6.1	18.0
3 12	11 46.35	+ 7 59.3	1.526	2.516	2.5	17.7
3 22	11 36.58	+ 8 47.4	1.520	2.504	4.7	17.8
4 1	11 27.39	+ 9 24.1	1.541	2.491	9.1	18.0
4 11	11 19.87	+ 9 44.6	1.586	2.477	13.3	18.2
4 21	11 14.73	+ 9 46.9	1.653	2.464	16.9	18.4

27 Euterpe 3 15.7 63°.10 1°.3/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.27	+ 1 46.2	1.315	2.167	17.0	10.2
2 21	12 3.24	+ 2 29.9	1.265	2.186	12.4	9.9
3 2	11 55.57	+ 3 27.9	1.236	2.205	7.2	9.7
3 12	11 46.32	+ 4 32.2	1.233	2.225	2.0	9.4
3 22	11 36.80	+ 5 33.6	1.255	2.244	4.2	9.6
4 1	11 28.37	+ 6 23.5	1.304	2.264	9.3	10.0
4 11	11 22.11	+ 6 56.2	1.376	2.284	13.8	10.3
4 21	11 18.56	+ 7 9.5	1.468	2.303	17.5	10.6

105515 2000 RQ_{15} 3 15.7 219°.78 4°.0/20.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.08	−13 20.8	2.572	3.333	12.3	20.4
2 21	11 59.35	−13 30.2	2.476	3.329	10.0	20.2
3 2	11 53.02	−13 23.4	2.403	3.325	7.4	20.0
3 12	11 45.63	−13 0.8	2.356	3.320	5.0	19.9
3 22	11 37.86	−12 24.9	2.338	3.315	4.1	19.8
4 1	11 30.44	−11 39.3	2.350	3.310	5.7	19.9
4 11	11 24.09	−10 49.4	2.389	3.305	8.3	20.1
4 21	11 19.32	−10 0.4	2.452	3.299	10.9	20.2

338885 2004 BE_{137} 3 15.7 23°.27 2°.0/13.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.65	+ 5 15.2	2.108	2.952	11.8	21.2
2 21	11 59.20	+ 6 2.3	2.034	2.952	8.6	21.0
3 2	11 52.97	+ 6 57.1	1.985	2.953	5.0	20.8
3 12	11 45.63	+ 7 53.8	1.963	2.953	2.1	20.6
3 22	11 37.94	+ 8 46.5	1.971	2.954	3.9	20.7
4 1	11 30.79	+ 9 29.6	2.007	2.954	7.5	20.9
4 11	11 24.94	+ 9 59.2	2.068	2.955	10.8	21.1
4 21	11 20.90	+10 13.2	2.152	2.955	13.8	21.3

108243 2001 HU_{44} 3 15.7 275°.27 1°.3/16.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.73	− 3 50.9	1.668	2.495	15.2	20.0
2 21	12 1.32	− 3 30.3	1.579	2.483	11.6	19.8
3 2	11 54.55	− 2 51.8	1.512	2.472	7.3	19.5
3 12	11 46.13	− 1 58.9	1.471	2.460	2.7	19.2
3 22	11 37.07	− 0 57.7	1.457	2.449	2.9	19.2
4 1	11 28.54	+ 0 4.0	1.470	2.437	7.6	19.4
4 11	11 21.63	+ 0 58.5	1.509	2.426	12.1	19.6
4 21	11 17.08	+ 1 40.1	1.569	2.414	16.1	19.9

501980 2014 YR_{38} 3 15.7 183°.34 3°.3/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.69	+ 9 18.0	1.999	2.847	12.1	21.6
2 21	12 1.53	+10 10.1	1.927	2.847	8.9	21.4
3 2	11 54.41	+11 6.7	1.881	2.847	5.5	21.2
3 12	11 46.04	+12 1.2	1.862	2.847	3.4	21.1
3 22	11 37.31	+12 47.1	1.873	2.846	5.2	21.2
4 1	11 29.18	+13 19.1	1.911	2.846	8.7	21.4
4 11	11 22.52	+13 34.1	1.974	2.845	12.0	21.6
4 21	11 17.86	+13 31.5	2.058	2.844	14.9	21.8

245502 2005 QF_{166} 3 15.7 194°.12 3°.3/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.99	− 0 44.8	1.225	2.078	17.9	20.1
2 21	12 2.10	+ 1 59.2	1.153	2.077	13.0	19.8
3 2	11 55.25	+ 5 14.6	1.105	2.076	7.5	19.4
3 12	11 46.35	+ 8 45.0	1.084	2.074	3.3	19.2
3 22	11 36.74	+12 9.4	1.092	2.071	7.0	19.4
4 1	11 27.97	+15 7.2	1.126	2.068	12.6	19.7
4 11	11 21.39	+17 25.5	1.184	2.064	17.7	20.0
4 21	11 17.79	+19 0.5	1.261	2.059	21.8	20.2

234437 2001 SG_{48} 3 15.7 242°.13 2°.3/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.16	+ 8 8.1	2.453	3.291	10.5	20.2
2 21	12 0.88	+ 8 38.6	2.366	3.281	7.7	20.0
3 2	11 53.94	+ 9 13.2	2.305	3.271	4.6	19.8
3 12	11 45.91	+ 9 47.3	2.273	3.260	2.3	19.6
3 22	11 37.51	+10 16.2	2.271	3.250	3.9	19.7
4 1	11 29.54	+10 36.0	2.298	3.239	7.1	19.9
4 11	11 22.72	+10 43.8	2.352	3.227	10.1	20.1
4 21	11 17.57	+10 38.7	2.428	3.216	12.8	20.2

136926 1998 *MY* 3 15.7 259°.29 2°.9/18.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 6.86	− 9 33.5	2.098	2.886	13.9	20.8
2 21	12 1.91	− 9 12.2	1.982	2.859	11.0	20.6
3 2	11 54.85	− 8 31.0	1.889	2.831	7.6	20.3
3 12	11 46.23	− 7 31.1	1.823	2.803	4.1	20.0
3 22	11 36.88	− 6 16.7	1.785	2.774	3.3	19.9
4 1	11 27.79	− 4 54.4	1.777	2.743	6.6	20.0
4 11	11 19.96	− 3 32.2	1.797	2.712	10.6	20.2
4 21	11 14.10	− 2 17.3	1.841	2.680	14.3	20.4

477918 2011 PK_2 3 15.7 27°.06 7°.7/22.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.77	−19 28.9	1.957	2.696	16.4	20.9
2 21	12 1.82	−20 29.6	1.879	2.704	13.9	20.7
3 2	11 54.71	−21 7.7	1.822	2.712	11.2	20.6
3 12	11 46.16	−21 21.0	1.788	2.721	8.9	20.4
3 22	11 37.09	−21 10.0	1.779	2.730	7.8	20.4
4 1	11 28.60	−20 38.5	1.797	2.740	8.6	20.4
4 11	11 21.63	−19 53.1	1.839	2.750	10.7	20.6
4 21	11 16.83	−19 1.6	1.905	2.760	13.2	20.8

246463 2007 VM_{276} 3 15.7 210°.52 3°.4/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.92	−11 30.7	2.458	3.232	12.5	20.7
2 21	11 59.28	−11 27.3	2.364	3.229	10.0	20.6
3 2	11 53.01	−11 7.2	2.293	3.225	7.1	20.4
3 12	11 45.66	−10 31.9	2.249	3.221	4.4	20.2
3 22	11 37.93	− 9 44.2	2.233	3.216	3.5	20.1
4 1	11 30.59	− 8 48.9	2.247	3.211	5.6	20.2
4 11	11 24.35	− 7 51.7	2.289	3.207	8.5	20.4
4 21	11 19.74	− 6 57.8	2.355	3.201	11.3	20.6

498792 2008 UV_{183} 3 15.7 97°.12 1°.7/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.71	+ 4 19.6	2.018	2.860	12.3	21.1
2 21	12 0.03	+ 5 3.5	1.947	2.864	9.0	20.9
3 2	11 53.49	+ 5 55.8	1.900	2.868	5.2	20.7
3 12	11 45.79	+ 6 50.9	1.882	2.872	1.9	20.5
3 22	11 37.76	+ 7 42.6	1.892	2.877	3.7	20.6
4 1	11 30.32	+ 8 25.2	1.930	2.881	7.5	20.9
4 11	11 24.26	+ 8 54.6	1.994	2.885	11.0	21.1
4 21	11 20.11	+ 9 8.7	2.080	2.889	14.0	21.3

123823 2001 BW_{80} 3 15.7 132°.75 2°.3/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.47	+ 6 44.3	2.430	3.267	10.6	20.6
2 21	12 0.24	+ 7 44.4	2.367	3.282	7.7	20.4
3 2	11 53.47	+ 8 50.0	2.330	3.296	4.5	20.2
3 12	11 45.77	+ 9 55.1	2.323	3.310	2.3	20.1
3 22	11 37.85	+10 54.3	2.346	3.323	4.0	20.2
4 1	11 30.48	+11 42.8	2.399	3.336	7.0	20.4
4 11	11 24.32	+12 17.2	2.478	3.348	9.9	20.6
4 21	11 19.79	+12 36.5	2.580	3.359	12.4	20.8

1667 Pels 3 15.7 272°.98 3°.7/12.8 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.34	+ 7 7.8	1.418	2.277	15.6	15.3
2 21	12 3.69	+ 8 7.2	1.334	2.260	11.5	15.0
3 2	11 56.19	+ 9 18.0	1.273	2.243	7.0	14.7
3 12	11 46.65	+10 31.1	1.237	2.225	3.7	14.4
3 22	11 36.27	+11 36.4	1.228	2.207	6.4	14.6
4 1	11 26.52	+12 24.4	1.244	2.189	11.2	14.8
4 11	11 18.74	+12 49.1	1.282	2.171	15.9	15.0
4 21	11 13.78	+12 49.1	1.339	2.152	20.0	15.2

427989 2006 AC_{54} 3 15.7 249°.98 1°.3/14.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.86	+ 2 12.7	1.931	2.771	12.8	21.6
2 21	11 59.55	+ 3 5.8	1.851	2.768	9.4	21.4
3 2	11 53.30	+ 4 10.6	1.797	2.764	5.5	21.1
3 12	11 45.77	+ 5 21.3	1.769	2.761	1.7	20.9
3 22	11 37.83	+ 6 30.7	1.771	2.757	3.6	21.0
4 1	11 30.43	+ 7 31.9	1.800	2.754	7.7	21.2
4 11	11 24.42	+ 8 19.3	1.855	2.750	11.4	21.4
4 21	11 20.38	+ 8 49.9	1.932	2.747	14.7	21.6

137071 1998 WD_{29} 3 15.7 45°.94 0°.2/15.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.03	− 1 10.0	1.623	2.458	15.1	20.0
2 21	12 1.44	− 0 42.1	1.549	2.461	11.3	19.8
3 2	11 54.53	+ 0 1.1	1.498	2.463	6.8	19.5
3 12	11 46.12	+ 0 54.7	1.474	2.465	2.0	19.2
3 22	11 37.25	+ 1 51.8	1.476	2.468	3.0	19.3
4 1	11 29.08	+ 2 44.8	1.506	2.470	7.8	19.6
4 11	11 22.63	+ 3 27.2	1.561	2.473	12.1	19.9
4 21	11 18.51	+ 3 54.9	1.636	2.475	15.8	20.1

210305 2007 TP_{146} 3 15.7 185°.83 1°.0/14.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.16	+ 2 12.9	1.985	2.815	13.0	21.3
2 21	12 3.39	+ 2 49.4	1.905	2.815	9.6	21.1
3 2	11 55.57	+ 3 36.4	1.849	2.814	5.6	20.8
3 12	11 46.40	+ 4 28.7	1.821	2.813	1.6	20.6
3 22	11 36.80	+ 5 20.2	1.823	2.811	3.3	20.7
4 1	11 27.78	+ 6 5.0	1.854	2.809	7.5	20.9
4 11	11 20.26	+ 6 38.0	1.912	2.805	11.2	21.1
4 21	11 14.82	+ 6 56.8	1.992	2.801	14.5	21.3

96896 1999 TM_{43} 3 15.7 79°.24 0°.4/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.90	− 1 43.7	1.901	2.729	13.6	20.3
2 21	12 0.29	− 1 15.7	1.826	2.733	10.1	20.0
3 2	11 53.71	− 0 34.0	1.775	2.737	6.2	19.8
3 12	11 45.88	+ 0 17.0	1.751	2.742	1.9	19.5
3 22	11 37.68	+ 1 11.6	1.755	2.746	2.6	19.6
4 1	11 30.08	+ 2 3.4	1.787	2.751	6.8	19.9
4 11	11 23.93	+ 2 46.5	1.846	2.755	10.7	20.1
4 21	11 19.80	+ 3 17.1	1.927	2.760	14.0	20.3

508705 2017 UB_{22} 3 15.7 249°.72 0°.2/15.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.05	− 0 46.8	2.202	3.030	11.9	21.6
2 21	11 58.00	+ 0 2.6	2.120	3.029	8.8	21.4
3 2	11 52.28	+ 1 4.5	2.064	3.028	5.2	21.2
3 12	11 45.48	+ 2 14.2	2.036	3.027	1.4	20.9
3 22	11 38.34	+ 3 25.7	2.037	3.027	2.6	21.0
4 1	11 31.67	+ 4 32.6	2.066	3.026	6.4	21.3
4 11	11 26.19	+ 5 29.4	2.123	3.025	9.9	21.5
4 21	11 22.41	+ 6 12.6	2.203	3.024	12.9	21.7

496273 2012 TF_{67} 3 15.7 118°.76 7°.9/ 6.2 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 14.00	+31 55.6	2.735	3.546	10.3	21.6
2 21	12 6.31	+32 42.6	2.696	3.561	8.9	21.5
3 2	11 56.96	+33 16.6	2.684	3.576	8.0	21.5
3 12	11 46.70	+33 32.0	2.699	3.591	8.1	21.5
3 22	11 36.41	+33 25.6	2.741	3.605	9.1	21.6
4 1	11 26.95	+32 56.8	2.809	3.618	10.5	21.7
4 11	11 19.01	+32 7.4	2.900	3.632	12.1	21.8
4 21	11 13.01	+31 1.0	3.011	3.645	13.5	22.0

52898 1998 SO_{67} 3 15.7 236°.40 2°.0/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.65	+ 2 58.2	1.662	2.505	14.4	19.7
2 21	12 2.77	+ 4 1.6	1.575	2.493	10.6	19.4
3 2	11 55.45	+ 5 19.5	1.512	2.480	6.3	19.2
3 12	11 46.42	+ 6 44.5	1.476	2.467	2.2	18.9
3 22	11 36.73	+ 8 7.5	1.468	2.453	4.6	19.0
4 1	11 27.60	+ 9 19.5	1.488	2.439	9.3	19.2
4 11	11 20.14	+10 13.3	1.532	2.423	13.7	19.4
4 21	11 15.10	+10 45.8	1.597	2.408	17.4	19.6

138797 2000 TR_9 3 15.7 166°.37 1°.3/17.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.84	− 5 53.3	2.669	3.469	10.9	20.2
2 21	11 57.58	− 5 19.2	2.583	3.472	8.3	20.0
3 2	11 51.92	− 4 32.0	2.522	3.474	5.3	19.9
3 12	11 45.38	− 3 34.7	2.489	3.476	2.3	19.6
3 22	11 38.56	− 2 31.5	2.487	3.478	2.0	19.6
4 1	11 32.14	− 1 27.5	2.514	3.479	5.0	19.8
4 11	11 26.70	− 0 27.7	2.570	3.481	8.0	20.0
4 21	11 22.69	+ 0 23.9	2.651	3.482	10.7	20.2

489665 2007 UW_{121} 3 15.7 245°.50 2°.8/13.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.30	+ 6 46.9	1.849	2.692	13.2	21.9
2 21	12 3.83	+ 7 37.8	1.757	2.674	9.7	21.6
3 2	11 56.03	+ 8 37.4	1.689	2.657	5.9	21.3
3 12	11 46.59	+ 9 39.0	1.650	2.638	2.9	21.1
3 22	11 36.49	+10 34.9	1.639	2.619	5.0	21.2
4 1	11 26.87	+11 18.3	1.656	2.598	9.2	21.4
4 11	11 18.80	+11 44.3	1.698	2.578	13.2	21.6
4 21	11 13.00	+11 51.1	1.761	2.556	16.7	21.8

418013 2007 UG_4 3 15.7 171°.17 5°.1/21.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.85	−18 43.6	2.079	2.820	15.5	21.8
2 21	12 0.97	−18 4.1	1.988	2.824	12.8	21.6
3 2	11 54.14	−16 57.0	1.917	2.828	9.7	21.4
3 12	11 46.02	−15 23.7	1.873	2.830	6.6	21.2
3 22	11 37.51	−13 29.3	1.857	2.832	5.1	21.1
4 1	11 29.56	−11 22.1	1.871	2.834	6.7	21.2
4 11	11 23.03	− 9 12.6	1.913	2.834	9.7	21.4
4 21	11 18.50	− 7 10.1	1.982	2.834	12.9	21.6

103391 2000 AZ_{125} 3 15.7 144°.48 0°.5/15.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.48	− 0 15.0	1.668	2.499	15.0	20.1
2 21	12 3.86	+ 0 33.4	1.599	2.509	11.1	19.9
3 2	11 55.92	+ 1 36.8	1.554	2.519	6.6	19.7
3 12	11 46.52	+ 2 48.7	1.537	2.528	1.7	19.4
3 22	11 36.72	+ 4 1.3	1.547	2.537	3.4	19.5
4 1	11 27.72	+ 5 6.4	1.586	2.545	8.1	19.8
4 11	11 20.49	+ 5 57.6	1.650	2.552	12.3	20.1
4 21	11 15.65	+ 6 31.5	1.737	2.558	15.8	20.3

161076 2002 LY_{40} 3 15.7 257°.85 3°.3/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.11	+ 8 47.1	2.278	3.124	10.9	20.4
2 21	11 59.61	+ 9 58.2	2.186	3.106	8.0	20.2
3 2	11 53.32	+11 16.0	2.121	3.087	5.0	20.0
3 12	11 45.81	+12 33.8	2.084	3.067	3.3	19.9
3 22	11 37.83	+13 44.8	2.077	3.047	5.2	19.9
4 1	11 30.22	+14 42.8	2.098	3.027	8.4	20.1
4 11	11 23.77	+15 23.7	2.145	3.006	11.6	20.3
4 21	11 19.07	+15 45.8	2.214	2.985	14.4	20.4

149984 2005 UT_{56} 3 15.7 251°.33 2°.1/17.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 6.66	− 5 39.9	1.924	2.734	14.1	20.3
2 21	12 1.75	− 5 34.8	1.832	2.725	10.9	20.1
3 2	11 54.71	− 5 13.6	1.762	2.715	7.2	19.8
3 12	11 46.22	− 4 38.6	1.719	2.705	3.3	19.6
3 22	11 37.15	− 3 54.0	1.704	2.695	2.9	19.5
4 1	11 28.56	− 3 5.7	1.718	2.684	6.7	19.7
4 11	11 21.41	− 2 20.3	1.757	2.674	10.7	19.9
4 21	11 16.35	− 1 43.0	1.820	2.663	14.3	20.1

18444 1994 PL_{10} 3 15.7 214°.74 0°.6/16.5 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.42	− 2 16.7	2.866	3.675	10.0	19.8
2 21	11 58.69	− 1 54.3	2.772	3.668	7.5	19.6
3 2	11 52.58	− 1 22.3	2.703	3.661	4.6	19.4
3 12	11 45.58	− 0 43.3	2.663	3.653	1.6	19.1
3 22	11 38.26	− 0 0.8	2.654	3.645	1.9	19.2
4 1	11 31.28	+ 0 41.2	2.675	3.637	5.0	19.4
4 11	11 25.21	+ 1 18.6	2.725	3.628	7.9	19.5
4 21	11 20.52	+ 1 48.6	2.799	3.619	10.5	19.7

182439 2001 SS_{17} 3 15.7 93°.78 1°.3/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.15	+ 2 45.2	1.735	2.578	13.9	20.2
2 21	12 1.38	+ 3 26.4	1.664	2.582	10.2	20.0
3 2	11 54.44	+ 4 18.9	1.617	2.585	6.0	19.8
3 12	11 46.12	+ 5 16.5	1.597	2.589	1.8	19.5
3 22	11 37.40	+ 6 12.1	1.605	2.592	3.8	19.6
4 1	11 29.36	+ 6 58.9	1.640	2.596	8.1	19.9
4 11	11 22.94	+ 7 31.6	1.700	2.599	12.1	20.2
4 21	11 18.74	+ 7 47.9	1.782	2.603	15.5	20.4

500739 2012 XM_{133} 3 15.7 130°.13 7°.6/26.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.54	−28 39.8	2.827	3.475	13.6	21.1
2 21	11 59.69	−29 8.6	2.739	3.485	12.1	21.0
3 2	11 53.25	−29 15.5	2.671	3.494	10.4	20.9
3 12	11 45.77	−28 59.1	2.625	3.503	8.8	20.8
3 22	11 37.96	−28 20.2	2.604	3.512	7.8	20.8
4 1	11 30.57	−27 21.7	2.610	3.521	7.8	20.8
4 11	11 24.28	−26 9.1	2.642	3.529	8.8	20.8
4 21	11 19.61	−24 48.9	2.700	3.537	10.3	21.0

11745 1999 NH_3 3 15.7 201°.45 1°.6/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.76	+ 3 4.5	2.342	3.176	11.1	17.8
2 21	11 59.20	+ 4 16.9	2.258	3.172	8.1	17.6
3 2	11 53.00	+ 5 39.4	2.201	3.168	4.7	17.4
3 12	11 45.72	+ 7 6.3	2.173	3.163	1.8	17.2
3 22	11 38.08	+ 8 30.7	2.175	3.158	3.6	17.3
4 1	11 30.86	+ 9 46.3	2.207	3.152	7.1	17.5
4 11	11 24.80	+10 48.0	2.266	3.146	10.3	17.7
4 21	11 20.39	+11 33.0	2.348	3.139	13.1	17.9

518792 2010 BQ_{68} 3 15.7 40°.52 3°.8/18.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.09	− 7 46.3	1.773	2.573	15.5	20.7
2 21	12 4.36	− 8 23.3	1.694	2.577	12.2	20.5
3 2	11 56.29	− 8 43.9	1.637	2.580	8.5	20.3
3 12	11 46.66	− 8 48.6	1.606	2.584	4.9	20.1
3 22	11 36.51	− 8 39.7	1.603	2.588	4.2	20.1
4 1	11 27.00	− 8 21.7	1.627	2.592	7.2	20.3
4 11	11 19.18	− 8 0.5	1.677	2.596	11.0	20.5
4 21	11 13.71	− 7 41.7	1.750	2.601	14.4	20.7

33273 1998 HM_{103} 3 15.7 113°.00 5°.2/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.95	+17 55.5	2.456	3.305	10.1	18.7
2 21	11 59.92	+19 0.6	2.402	3.315	7.7	18.6
3 2	11 53.32	+20 2.7	2.375	3.325	5.7	18.4
3 12	11 45.78	+20 55.4	2.375	3.334	5.3	18.4
3 22	11 38.04	+21 33.8	2.404	3.343	6.7	18.5
4 1	11 30.86	+21 54.5	2.461	3.352	9.0	18.7
4 11	11 24.91	+21 56.4	2.541	3.361	11.3	18.9
4 21	11 20.64	+21 40.5	2.643	3.370	13.3	19.0

169545 2002 EM_{89} 3 15.7 322°.76 2°.7/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.95	− 7 10.7	1.281	2.118	18.3	19.5
2 21	11 59.15	− 6 49.8	1.196	2.103	14.3	19.2
3 2	11 53.57	− 6 1.8	1.131	2.089	9.5	18.9
3 12	11 45.99	− 4 49.7	1.088	2.075	4.4	18.6
3 22	11 37.57	− 3 20.9	1.070	2.062	3.6	18.5
4 1	11 29.77	− 1 46.9	1.076	2.049	8.8	18.7
4 11	11 23.93	− 0 20.0	1.106	2.038	14.1	19.0
4 21	11 20.91	+ 0 50.4	1.155	2.027	18.8	19.2

355867 2008 UM_{312} 3 15.7 58°.16 3°.2/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.84	− 6 4.0	1.349	2.174	18.2	20.6
2 21	12 4.66	− 6 20.3	1.282	2.182	14.1	20.3
3 2	11 56.66	− 6 16.1	1.235	2.189	9.3	20.1
3 12	11 46.78	− 5 53.4	1.212	2.197	4.6	19.8
3 22	11 36.36	− 5 17.4	1.215	2.205	3.9	19.8
4 1	11 26.85	− 4 35.6	1.244	2.213	8.3	20.1
4 11	11 19.50	− 3 56.3	1.296	2.221	13.0	20.4
4 21	11 15.02	− 3 26.2	1.369	2.230	17.1	20.6

455277 2001 XY_{232} 3 15.7 88°.23 4°.6/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 11.08	+10 10.9	1.441	2.298	15.4	21.2
2 21	12 5.17	+11 13.8	1.393	2.317	11.3	21.0
3 2	11 56.71	+12 20.5	1.369	2.335	7.0	20.8
3 12	11 46.74	+13 21.3	1.371	2.354	4.6	20.7
3 22	11 36.54	+14 7.7	1.399	2.372	6.8	20.9
4 1	11 27.44	+14 33.6	1.454	2.390	10.8	21.2
4 11	11 20.48	+14 36.9	1.531	2.407	14.6	21.5
4 21	11 16.18	+14 18.9	1.628	2.424	17.8	21.7

405907 2006 HW_{98} 3 15.7 3°.58 2°.3/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.49	− 6 15.4	1.258	2.097	18.4	20.8
2 21	12 0.16	− 5 55.7	1.187	2.096	14.2	20.5
3 2	11 54.06	− 5 10.7	1.136	2.096	9.2	20.2
3 12	11 46.09	− 4 4.7	1.108	2.096	4.0	19.9
3 22	11 37.50	− 2 45.9	1.105	2.097	3.5	19.9
4 1	11 29.73	− 1 25.1	1.127	2.099	8.6	20.2
4 11	11 24.02	− 0 13.2	1.172	2.102	13.7	20.4
4 21	11 21.11	+ 0 42.2	1.237	2.105	18.0	20.7

257445 6010 $P–L$ 3 15.7 237°.41 0°.8/16.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.98	− 2 21.7	1.885	2.704	14.0	21.8
2 21	12 3.56	− 2 3.5	1.789	2.690	10.6	21.6
3 2	11 55.87	− 1 30.5	1.716	2.676	6.6	21.3
3 12	11 46.58	− 0 46.4	1.671	2.661	2.2	21.0
3 22	11 36.64	+ 0 3.8	1.654	2.645	2.7	21.0
4 1	11 27.15	+ 0 53.4	1.666	2.629	7.3	21.2
4 11	11 19.16	+ 1 36.1	1.704	2.612	11.5	21.4
4 21	11 13.38	+ 2 7.4	1.765	2.595	15.2	21.6

459933 2014 MP_{63} 3 15.7 139°.89 0°.7/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.52	− 3 38.1	1.845	2.663	14.3	22.3
2 21	12 2.25	− 2 55.1	1.773	2.674	10.7	22.1
3 2	11 54.91	− 1 55.6	1.725	2.685	6.6	21.8
3 12	11 46.26	− 0 44.5	1.704	2.695	2.2	21.6
3 22	11 37.26	+ 0 31.3	1.712	2.704	2.6	21.6
4 1	11 28.94	+ 1 44.0	1.749	2.713	7.0	21.9
4 11	11 22.20	+ 2 46.8	1.813	2.721	11.0	22.2
4 21	11 17.59	+ 3 35.1	1.899	2.728	14.3	22.4

486699 2013 XF_{10} 3 15.7 348°.84 17°.9/24.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 14.42	−26 49.8	1.097	1.837	26.6	20.2
2 21	12 9.65	−29 43.8	1.028	1.834	24.1	20.0
3 2	12 0.61	−32 4.9	0.974	1.831	21.5	19.8
3 12	11 48.12	−33 39.6	0.937	1.829	19.2	19.6
3 22	11 33.87	−34 18.3	0.918	1.828	18.0	19.6
4 1	11 20.27	−34 0.3	0.917	1.827	18.3	19.6
4 11	11 9.67	−32 56.8	0.934	1.827	20.0	19.7
4 21	11 3.48	−31 25.2	0.967	1.827	22.5	19.8

69155 2003 HL_{52} 3 15.7 298°.32 3°.9/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.33	−15 6.5	2.410	3.172	13.0	19.8
2 21	11 56.73	−14 36.9	2.312	3.166	10.6	19.6
3 2	11 51.55	−13 46.4	2.236	3.159	7.8	19.4
3 12	11 45.34	−12 36.4	2.187	3.153	5.1	19.2
3 22	11 38.76	−11 11.0	2.166	3.146	3.9	19.1
4 1	11 32.56	− 9 36.3	2.174	3.140	5.6	19.2
4 11	11 27.45	− 7 59.6	2.211	3.134	8.5	19.4
4 21	11 23.93	− 6 27.7	2.272	3.128	11.4	19.6

293803 2007 RU_{152} 3 15.7 98°.87 1°.5/17.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.34	− 5 1.1	2.155	2.965	12.8	20.9
2 21	11 59.69	− 4 41.9	2.078	2.972	9.7	20.7
3 2	11 53.30	− 4 8.3	2.025	2.980	6.2	20.5
3 12	11 45.81	− 3 23.6	1.999	2.987	2.6	20.3
3 22	11 38.01	− 2 32.3	2.003	2.994	2.4	20.3
4 1	11 30.73	− 1 40.1	2.035	3.001	5.9	20.5
4 11	11 24.74	− 0 52.6	2.094	3.008	9.4	20.7
4 21	11 20.54	− 0 13.9	2.177	3.015	12.4	20.9

383632 2007 RH_{162} 3 15.7 101°.53 0°.6/16.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.18	− 4 31.2	2.587	3.392	11.1	21.5
2 21	11 58.48	− 3 34.6	2.522	3.416	8.2	21.4
3 2	11 52.41	− 2 25.4	2.483	3.440	5.1	21.2
3 12	11 45.54	− 1 8.0	2.473	3.463	1.7	21.0
3 22	11 38.50	+ 0 12.3	2.494	3.485	2.0	21.0
4 1	11 31.97	+ 1 29.7	2.546	3.507	5.2	21.3
4 11	11 26.53	+ 2 39.2	2.626	3.529	8.2	21.5
4 21	11 22.56	+ 3 37.3	2.731	3.550	10.7	21.7

118994 2000 YS_{28} 3 15.7 28°.11 17°.4/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.53	−34 52.8	1.087	1.792	28.6	19.5
2 21	12 1.20	−36 19.6	1.023	1.796	26.3	19.3
3 2	11 55.20	−36 56.3	0.968	1.800	23.6	19.1
3 12	11 46.50	−36 32.4	0.926	1.804	20.8	18.9
3 22	11 36.77	−35 3.3	0.901	1.809	18.5	18.8
4 1	11 28.09	−32 34.4	0.893	1.814	17.4	18.8
4 11	11 22.25	−29 23.1	0.904	1.820	18.2	18.8
4 21	11 20.21	−25 52.9	0.934	1.827	20.3	19.0

469324 1999 UZ_{31} 3 15.7 99°.07 1°.3/14.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 6.09	+ 3 35.5	1.990	2.828	12.6	21.8
2 21	12 1.06	+ 4 11.0	1.922	2.837	9.2	21.6
3 2	11 54.14	+ 4 55.1	1.878	2.845	5.4	21.4
3 12	11 46.05	+ 5 42.5	1.862	2.853	1.7	21.1
3 22	11 37.65	+ 6 27.5	1.875	2.862	3.4	21.3
4 1	11 29.89	+ 7 4.4	1.916	2.870	7.3	21.5
4 11	11 23.56	+ 7 29.4	1.983	2.878	10.9	21.8
4 21	11 19.19	+ 7 40.3	2.073	2.885	13.9	22.0

370806 2004 TA_{218} 3 15.7 117°.65 0°.5/16.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.99	− 2 28.6	2.035	2.857	13.0	21.7
2 21	12 0.23	− 1 53.2	1.962	2.866	9.7	21.5
3 2	11 53.65	− 1 4.1	1.913	2.874	5.9	21.3
3 12	11 45.92	− 0 5.6	1.892	2.883	1.9	21.0
3 22	11 37.87	+ 0 56.4	1.899	2.891	2.5	21.1
4 1	11 30.40	+ 1 55.6	1.936	2.899	6.5	21.3
4 11	11 24.31	+ 2 46.3	1.999	2.906	10.1	21.6
4 21	11 20.10	+ 3 24.7	2.085	2.914	13.2	21.8

430029 2013 RB_{52} 3 15.8 130°.29 1°.9/17.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.53	− 5 39.2	2.012	2.819	13.7	21.4
2 21	12 1.44	− 5 29.0	1.934	2.826	10.5	21.2
3 2	11 54.42	− 5 3.3	1.879	2.832	6.8	20.9
3 12	11 46.15	− 4 25.1	1.852	2.838	3.1	20.7
3 22	11 37.52	− 3 38.7	1.853	2.844	2.7	20.7
4 1	11 29.47	− 2 50.1	1.883	2.849	6.3	20.9
4 11	11 22.83	− 2 5.1	1.939	2.854	10.0	21.2
4 21	11 18.16	− 1 28.5	2.019	2.859	13.2	21.4

276658 2003 VQ_{11} 3 15.8 122°.56 1°.9/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.36	− 7 51.1	2.315	3.111	12.5	20.8
2 21	11 58.86	− 7 14.6	2.237	3.122	9.6	20.7
3 2	11 52.77	− 6 21.7	2.184	3.132	6.3	20.5
3 12	11 45.68	− 5 16.0	2.158	3.143	3.0	20.3
3 22	11 38.32	− 4 2.4	2.162	3.152	2.4	20.2
4 1	11 31.46	− 2 47.0	2.196	3.162	5.5	20.5
4 11	11 25.79	− 1 36.3	2.257	3.171	8.8	20.7
4 21	11 21.78	− 0 34.9	2.343	3.180	11.7	20.9

457620 2009 BJ_{93} 3 15.8 75°.86 2°.2/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.51	+ 2 44.2	1.438	2.291	15.7	21.5
2 21	12 1.24	+ 3 58.0	1.376	2.299	11.4	21.3
3 2	11 54.50	+ 5 26.4	1.338	2.308	6.6	21.0
3 12	11 46.20	+ 7 0.3	1.325	2.316	2.4	20.8
3 22	11 37.49	+ 8 29.1	1.339	2.324	4.9	21.0
4 1	11 29.62	+ 9 43.0	1.380	2.332	9.6	21.3
4 11	11 23.66	+10 35.6	1.444	2.341	14.0	21.5
4 21	11 20.21	+11 4.5	1.528	2.349	17.6	21.8

449177 2013 BM_{65} 3 15.8 95°.09 0°.4/15.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.49	− 0 37.0	1.492	2.326	16.2	22.3
2 21	12 4.65	+ 0 12.2	1.439	2.351	11.9	22.1
3 2	11 56.38	+ 1 17.0	1.410	2.375	7.0	21.8
3 12	11 46.68	+ 2 30.1	1.407	2.399	1.8	21.6
3 22	11 36.76	+ 3 43.0	1.431	2.421	3.5	21.7
4 1	11 27.87	+ 4 46.9	1.484	2.444	8.3	22.1
4 11	11 20.99	+ 5 35.5	1.561	2.465	12.6	22.4
4 21	11 16.67	+ 6 6.0	1.659	2.487	16.1	22.6

363819 2005 NF_{50} 3 15.8 192°.61 2°.4/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.36	+ 7 14.8	2.604	3.446	9.9	21.1
2 21	11 58.03	+ 8 16.3	2.527	3.444	7.2	20.9
3 2	11 52.25	+ 9 23.2	2.476	3.443	4.3	20.7
3 12	11 45.55	+10 30.2	2.455	3.442	2.4	20.6
3 22	11 38.57	+11 32.0	2.464	3.440	4.0	20.7
4 1	11 31.99	+12 23.7	2.502	3.438	6.9	20.9
4 11	11 26.44	+13 2.0	2.567	3.435	9.7	21.1
4 21	11 22.36	+13 25.3	2.654	3.433	12.1	21.2

53349 1999 JM_{61} 3 15.8 323°.43 5°.7/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.33	+16 18.6	1.991	2.849	11.7	18.3
2 21	11 59.94	+17 24.8	1.921	2.841	8.9	18.1
3 2	11 53.58	+18 30.2	1.876	2.832	6.5	17.9
3 12	11 45.95	+19 26.9	1.858	2.824	5.8	17.9
3 22	11 37.92	+20 8.2	1.867	2.816	7.6	17.9
4 1	11 30.47	+20 29.1	1.902	2.809	10.4	18.1
4 11	11 24.45	+20 28.0	1.961	2.802	13.3	18.3
4 21	11 20.42	+20 5.7	2.039	2.795	15.9	18.4

390502 2014 AQ_{54} 3 15.8 43°.41 2°.1/17.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.63	− 5 29.0	2.129	2.936	13.1	21.3
2 21	12 0.71	− 5 34.1	2.049	2.940	10.0	21.1
3 2	11 53.97	− 5 25.6	1.993	2.945	6.6	20.9
3 12	11 46.05	− 5 5.6	1.965	2.949	3.2	20.7
3 22	11 37.78	− 4 37.5	1.964	2.954	2.7	20.7
4 1	11 30.03	− 4 5.9	1.993	2.959	6.0	20.9
4 11	11 23.60	− 3 36.1	2.048	2.964	9.4	21.1
4 21	11 19.02	− 3 12.0	2.127	2.970	12.5	21.3

197580 2004 HZ_1 3 15.8 263°.58 2°.7/13.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 9.73	+ 5 27.6	1.504	2.354	15.3	21.4
2 21	12 4.66	+ 6 11.9	1.415	2.337	11.3	21.1
3 2	11 56.80	+ 7 7.7	1.350	2.319	6.8	20.8
3 12	11 46.94	+ 8 7.7	1.311	2.301	2.8	20.5
3 22	11 36.25	+ 9 3.2	1.298	2.282	5.3	20.6
4 1	11 26.13	+ 9 45.6	1.312	2.263	10.2	20.8
4 11	11 17.89	+10 9.0	1.349	2.244	14.9	21.0
4 21	11 12.38	+10 11.3	1.406	2.224	19.0	21.2

94170 2001 AK_{27} 3 15.8 82°.70 3°.8/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.91	+10 36.9	1.880	2.730	12.7	19.3
2 21	12 2.46	+11 23.5	1.822	2.742	9.3	19.1
3 2	11 55.00	+12 12.6	1.790	2.755	5.8	18.9
3 12	11 46.33	+12 57.4	1.784	2.767	3.8	18.8
3 22	11 37.43	+13 31.7	1.808	2.780	5.6	19.0
4 1	11 29.28	+13 50.9	1.858	2.792	9.0	19.2
4 11	11 22.73	+13 52.7	1.933	2.804	12.2	19.4
4 21	11 18.30	+13 37.5	2.030	2.816	15.0	19.6

22159 2000 WW_{116} 3 15.8 93°.55 5°.5/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.92	+15 33.1	1.927	2.780	12.3	18.2
2 21	12 2.44	+16 37.2	1.875	2.793	9.2	18.0
3 2	11 54.97	+17 39.6	1.848	2.805	6.5	17.9
3 12	11 46.32	+18 32.5	1.849	2.818	5.5	17.8
3 22	11 37.45	+19 9.5	1.877	2.830	7.2	18.0
4 1	11 29.35	+19 26.4	1.932	2.842	10.1	18.1
4 11	11 22.85	+19 22.3	2.011	2.854	13.0	18.4
4 21	11 18.46	+18 58.6	2.110	2.866	15.5	18.6

368994 2007 FC_7 3 15.8 148°.46 0°.2/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.89	− 1 36.8	2.290	3.107	11.9	22.1
2 21	12 0.74	− 0 58.7	2.215	3.116	8.9	21.9
3 2	11 53.91	− 0 8.8	2.164	3.125	5.3	21.7
3 12	11 46.04	+ 0 48.8	2.142	3.133	1.6	21.4
3 22	11 37.88	+ 1 48.7	2.150	3.141	2.3	21.5
4 1	11 30.24	+ 2 45.4	2.188	3.148	6.0	21.8
4 11	11 23.85	+ 3 33.8	2.253	3.154	9.4	22.0
4 21	11 19.19	+ 4 10.7	2.342	3.160	12.3	22.2

456774 2007 TW_{143} 3 15.8 195°.72 0°.3/16.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.50	− 1 43.7	1.923	2.743	13.7	22.5
2 21	12 3.06	− 1 11.8	1.838	2.741	10.3	22.3
3 2	11 55.50	− 0 25.6	1.777	2.738	6.3	22.0
3 12	11 46.52	+ 0 30.6	1.744	2.735	1.9	21.7
3 22	11 37.05	+ 1 30.8	1.739	2.730	2.7	21.8
4 1	11 28.14	+ 2 28.1	1.764	2.726	7.1	22.0
4 11	11 20.73	+ 3 16.4	1.815	2.720	11.1	22.3
4 21	11 15.44	+ 3 51.6	1.889	2.714	14.6	22.5

308046 2004 TX_{17} 3 15.8 178°.62 3°.1/18.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.54	− 9 39.6	1.830	2.624	15.3	21.6
2 21	12 2.46	− 9 19.1	1.745	2.626	12.1	21.3
3 2	11 55.18	− 8 37.1	1.683	2.627	8.2	21.1
3 12	11 46.43	− 7 36.1	1.647	2.628	4.4	20.9
3 22	11 37.20	− 6 21.6	1.639	2.628	3.5	20.8
4 1	11 28.55	− 5 1.2	1.660	2.627	6.9	21.0
4 11	11 21.48	− 3 43.5	1.707	2.626	10.8	21.2
4 21	11 16.62	− 2 35.5	1.777	2.624	14.4	21.5

44107 1998 HH_4 3 15.8 179°.38 4°.3/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.85	+11 5.1	1.877	2.726	12.7	19.3
2 21	12 3.29	+12 9.1	1.808	2.728	9.4	19.1
3 2	11 55.60	+13 16.7	1.764	2.728	6.0	18.9
3 12	11 46.53	+14 20.1	1.749	2.729	4.3	18.8
3 22	11 37.08	+15 11.7	1.761	2.729	6.2	18.9
4 1	11 28.29	+15 45.8	1.801	2.728	9.7	19.1
4 11	11 21.12	+15 59.7	1.866	2.727	13.1	19.3
4 21	11 16.13	+15 53.4	1.951	2.725	16.0	19.5

206784 2004 CO_{115} 3 15.8 305°.66 7°.5/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.82	+22 15.0	2.003	2.856	11.9	19.5
2 21	12 1.83	+23 24.5	1.936	2.844	9.5	19.3
3 2	11 54.75	+24 28.2	1.893	2.833	7.8	19.2
3 12	11 46.30	+25 17.3	1.877	2.822	7.7	19.2
3 22	11 37.45	+25 45.4	1.888	2.811	9.3	19.2
4 1	11 29.23	+25 48.6	1.923	2.800	11.8	19.4
4 11	11 22.55	+25 26.6	1.981	2.790	14.5	19.5
4 21	11 18.00	+24 41.7	2.057	2.779	16.8	19.7

248832 2006 SK_{365} 3 15.8 184°.77 1°.3/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.81	+ 4 1.9	2.804	3.635	9.6	21.6
2 21	11 58.26	+ 4 50.0	2.723	3.635	7.0	21.4
3 2	11 52.37	+ 5 44.9	2.668	3.634	4.1	21.2
3 12	11 45.61	+ 6 42.2	2.643	3.633	1.5	21.0
3 22	11 38.59	+ 7 37.4	2.648	3.632	2.9	21.1
4 1	11 31.95	+ 8 26.1	2.684	3.631	5.9	21.3
4 11	11 26.26	+ 9 4.7	2.747	3.629	8.6	21.5
4 21	11 21.94	+ 9 31.3	2.834	3.626	11.1	21.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
134680 1999 XX_{24}			3 15.8 138°.26		4°.2/11.9 18	
	h m	° ′			°	m
2 11	12 9.55	+10 56.2	1.821	2.670	13.1	19.8
2 21	12 3.78	+11 55.2	1.759	2.679	9.6	19.6
3 2	11 55.85	+12 57.3	1.723	2.688	6.1	19.4
3 12	11 46.59	+13 54.6	1.715	2.696	4.2	19.3
3 22	11 37.02	+14 40.0	1.734	2.703	6.1	19.4
4 1	11 28.22	+15 8.1	1.781	2.711	9.6	19.6
4 11	11 21.12	+15 16.5	1.853	2.717	13.0	19.9
4 21	11 16.25	+15 5.6	1.945	2.724	15.9	20.1
202633 2006 HA_{152}			3 15.8 265°.62		0°.3/15.5 17	
2 11	12 5.01	+ 0 41.9	2.045	2.876	12.6	21.0
2 21	12 0.34	+ 1 9.2	1.964	2.874	9.3	20.8
3 2	11 53.80	+ 1 47.4	1.908	2.873	5.6	20.5
3 12	11 46.04	+ 2 32.3	1.879	2.871	1.5	20.3
3 22	11 37.89	+ 3 18.4	1.879	2.869	2.8	20.3
4 1	11 30.26	+ 4 0.1	1.907	2.867	6.8	20.6
4 11	11 23.97	+ 4 32.6	1.962	2.866	10.5	20.8
4 21	11 19.57	+ 4 52.8	2.039	2.864	13.7	21.0
278067 2006 YY_{40}			3 15.8 249°.23		0°.5/16.2 18	
2 11	12 8.34	− 2 26.5	1.441	2.276	16.7	21.1
2 21	12 3.68	− 1 54.3	1.354	2.265	12.6	20.8
3 2	11 56.24	− 1 2.0	1.289	2.253	7.8	20.5
3 12	11 46.82	+ 0 5.5	1.250	2.241	2.4	20.1
3 22	11 36.59	+ 1 20.2	1.236	2.228	3.4	20.1
4 1	11 26.97	+ 2 32.3	1.250	2.215	8.9	20.4
4 11	11 19.27	+ 3 32.6	1.287	2.202	14.0	20.7
4 21	11 14.33	+ 4 15.2	1.345	2.188	18.3	20.9
178780 2001 AV_{29}			3 15.8 72°.84		4°.1/12.5 18	
2 11	12 9.07	+ 9 11.2	1.463	2.322	15.2	19.8
2 21	12 3.83	+10 5.5	1.406	2.331	11.1	19.6
3 2	11 56.05	+11 5.3	1.372	2.340	6.8	19.3
3 12	11 46.69	+12 1.7	1.364	2.349	4.1	19.2
3 22	11 36.97	+12 46.2	1.382	2.358	6.3	19.4
4 1	11 28.19	+13 12.4	1.427	2.368	10.5	19.6
4 11	11 21.43	+13 17.3	1.494	2.377	14.4	19.9
4 21	11 17.28	+13 1.3	1.581	2.386	17.8	20.1
168341 1995 MT_{1}			3 15.8 174°.91		3°.3/12.3 18	
2 11	12 7.56	+ 7 39.8	1.971	2.815	12.4	21.2
2 21	12 2.27	+ 8 54.6	1.900	2.818	9.1	21.0
3 2	11 54.97	+10 16.5	1.854	2.821	5.5	20.7
3 12	11 46.38	+11 37.9	1.837	2.822	3.3	20.6
3 22	11 37.42	+12 50.9	1.850	2.823	5.3	20.7
4 1	11 29.06	+13 48.9	1.890	2.824	8.9	20.9
4 11	11 22.18	+14 27.7	1.956	2.823	12.3	21.1
4 21	11 17.35	+14 46.4	2.043	2.822	15.2	21.3
341749 2007 VF_{280}			3 15.8 319°.97		4°.0/20.3 17	
2 11	12 2.41	−12 55.9	2.142	2.919	14.0	21.0
2 21	11 58.46	−12 48.6	2.050	2.915	11.2	20.8
3 2	11 52.72	−12 21.2	1.981	2.912	8.2	20.6
3 12	11 45.77	−11 34.8	1.938	2.908	5.2	20.4
3 22	11 38.39	−10 33.2	1.922	2.904	4.1	20.3
4 1	11 31.46	− 9 22.2	1.935	2.901	6.2	20.4
4 11	11 25.77	− 8 8.9	1.974	2.898	9.3	20.6
4 21	11 21.89	− 6 59.9	2.038	2.895	12.4	20.8
292300 2006 SN_{144}			3 15.8 283°.35		1°.7/17.8 17	
2 11	12 1.68	− 6 50.2	2.278	3.082	12.4	21.4
2 21	11 57.78	− 6 16.0	2.188	3.078	9.5	21.2
3 2	11 52.24	− 5 25.7	2.122	3.074	6.2	21.0
3 12	11 45.62	− 4 22.2	2.084	3.070	2.8	20.7
3 22	11 38.64	− 3 10.7	2.075	3.066	2.3	20.7
4 1	11 32.08	− 1 57.3	2.095	3.062	5.7	20.9
4 11	11 26.66	− 0 48.3	2.142	3.058	9.1	21.1
4 21	11 22.88	+ 0 11.3	2.214	3.054	12.2	21.3
346760 2009 BB_{55}			3 15.8 152°.44		1°.3/14.3 17	
2 11	12 4.17	+ 3 41.4	2.400	3.233	10.9	21.5
2 21	11 59.44	+ 4 22.0	2.324	3.237	7.9	21.3
3 2	11 53.14	+ 5 10.2	2.274	3.241	4.6	21.1
3 12	11 45.86	+ 6 1.3	2.253	3.244	1.5	20.9
3 22	11 38.29	+ 6 50.3	2.262	3.247	3.1	21.0
4 1	11 31.19	+ 7 32.3	2.299	3.250	6.4	21.3
4 11	11 25.25	+ 8 3.7	2.364	3.253	9.6	21.5
4 21	11 20.92	+ 8 22.3	2.452	3.256	12.3	21.6
5970 Ohdohrikouen			3 15.8 261°.46		2°.5/13.6 18	
2 11	12 7.66	+ 4 9.3	1.510	2.361	15.2	17.4
2 21	12 3.10	+ 5 10.5	1.423	2.345	11.2	17.1
3 2	11 55.86	+ 6 26.2	1.359	2.328	6.7	16.8
3 12	11 46.72	+ 7 48.4	1.321	2.311	2.7	16.5
3 22	11 36.79	+ 9 7.4	1.310	2.294	5.2	16.6
4 1	11 27.42	+10 13.2	1.325	2.276	10.2	16.9
4 11	11 19.87	+10 58.9	1.364	2.258	14.9	17.1
4 21	11 14.96	+11 21.2	1.423	2.239	18.9	17.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
36623 2000 QS_{155}			3 15.8 77°.54		2°.2/18.2 18	
	h m	° ′			°	m
2 11	12 5.08	− 8 54.4	1.838	2.639	15.0	19.3
2 21	12 0.38	− 8 4.4	1.778	2.665	11.5	19.1
3 2	11 53.77	− 6 53.8	1.742	2.691	7.5	18.9
3 12	11 46.02	− 5 27.3	1.732	2.717	3.5	18.7
3 22	11 38.08	− 3 52.5	1.751	2.742	2.8	18.7
4 1	11 30.89	− 2 17.8	1.799	2.767	6.4	19.0
4 11	11 25.25	− 0 51.3	1.874	2.792	10.1	19.2
4 21	11 21.63	+ 0 21.1	1.973	2.816	13.3	19.5
499792 2011 CK_{60}			3 15.8 167°.23		2°.1/13.6 17	
2 11	12 4.23	+ 4 2.2	1.871	2.717	13.0	21.5
2 21	11 59.91	+ 5 7.3	1.798	2.717	9.4	21.3
3 2	11 53.61	+ 6 23.0	1.749	2.718	5.5	21.0
3 12	11 46.02	+ 7 42.5	1.728	2.718	2.2	20.8
3 22	11 38.04	+ 8 57.7	1.736	2.719	4.3	21.0
4 1	11 30.64	+10 1.6	1.771	2.719	8.3	21.2
4 11	11 24.70	+10 48.7	1.831	2.719	12.0	21.4
4 21	11 20.78	+11 16.8	1.913	2.719	15.1	21.6
272430 2005 TM_{152}			3 15.8 28°.08		9°.8/ 6.0 18	
2 11	12 4.83	+23 0.9	1.477	2.345	14.4	19.7
2 21	12 0.78	+24 53.9	1.439	2.354	11.7	19.6
3 2	11 54.24	+26 37.0	1.426	2.364	10.0	19.5
3 12	11 46.18	+27 57.7	1.436	2.375	10.2	19.5
3 22	11 37.84	+28 47.4	1.471	2.386	12.1	19.7
4 1	11 30.48	+29 2.2	1.528	2.397	14.8	19.8
4 11	11 25.13	+28 43.5	1.604	2.410	17.4	20.1
4 21	11 22.30	+27 56.1	1.696	2.423	19.7	20.3
389971 2012 TF_{223}			3 15.8 97°.72		0°.9/16.9 18	
2 11	12 2.06	− 4 53.7	2.379	3.189	11.8	20.9
2 21	11 57.89	− 4 6.2	2.305	3.200	8.8	20.7
3 2	11 52.21	− 3 4.6	2.255	3.212	5.5	20.5
3 12	11 45.60	− 1 53.1	2.234	3.223	2.0	20.3
3 22	11 38.74	− 0 37.0	2.243	3.234	2.1	20.3
4 1	11 32.37	+ 0 37.6	2.281	3.246	5.5	20.6
4 11	11 27.12	+ 1 45.1	2.347	3.256	8.7	20.8
4 21	11 23.44	+ 2 41.3	2.438	3.267	11.5	21.0
456002 2005 YZ_{5}			3 15.8 307°.51		2°.1/14.2 18	
2 11	12 7.06	+ 3 25.9	1.331	2.188	16.5	21.3
2 21	12 2.76	+ 4 13.6	1.259	2.183	12.2	21.0
3 2	11 55.66	+ 5 15.8	1.208	2.178	7.2	20.7
3 12	11 46.65	+ 6 24.5	1.182	2.173	2.4	20.4
3 22	11 36.98	+ 7 29.9	1.182	2.169	4.9	20.6
4 1	11 28.11	+ 8 22.6	1.207	2.164	10.2	20.8
4 11	11 21.30	+ 8 55.8	1.255	2.160	15.0	21.1
4 21	11 17.31	+ 9 6.9	1.322	2.156	19.1	21.3
183219 2002 TN_{37}			3 15.8 77°.14		0°.6/16.3 18	
2 11	12 6.54	− 3 26.5	1.628	2.456	15.4	20.9
2 21	12 1.66	− 2 39.4	1.571	2.478	11.5	20.7
3 2	11 54.61	− 1 34.8	1.538	2.500	7.0	20.4
3 12	11 46.28	− 0 18.9	1.531	2.522	2.2	20.2
3 22	11 37.70	+ 1 0.4	1.552	2.543	2.8	20.3
4 1	11 29.97	+ 2 14.6	1.600	2.565	7.4	20.6
4 11	11 23.98	+ 3 16.5	1.674	2.586	11.5	20.9
4 21	11 20.25	+ 4 2.0	1.770	2.607	14.9	21.2
110418 2001 TK_{19}			3 15.8 91°.26		0°.9/15.1 18	
2 11	12 11.86	+ 3 50.5	1.789	2.623	14.0	19.1
2 21	12 5.49	+ 3 53.2	1.722	2.634	10.3	18.8
3 2	11 56.90	+ 4 3.5	1.679	2.644	6.1	18.6
3 12	11 46.92	+ 4 17.2	1.663	2.655	1.7	18.3
3 22	11 36.62	+ 4 29.4	1.677	2.665	3.3	18.5
4 1	11 27.11	+ 4 35.8	1.718	2.676	7.6	18.8
4 11	11 19.36	+ 4 33.0	1.786	2.686	11.5	19.0
4 21	11 13.93	+ 4 19.5	1.876	2.696	14.8	19.2
416164 2002 RQ_{233}			3 15.8 173°.10		0°.2/16.0 15	
2 11	12 7.77	− 1 24.9	2.136	2.953	12.6	23.1
2 21	12 2.30	− 0 52.3	2.055	2.957	9.4	22.9
3 2	11 54.95	− 0 7.3	1.999	2.960	5.7	22.7
3 12	11 46.39	+ 0 46.0	1.971	2.962	1.7	22.4
3 22	11 37.46	+ 1 42.2	1.972	2.963	2.5	22.5
4 1	11 29.07	+ 2 35.5	2.004	2.964	6.5	22.8
4 11	11 22.03	+ 3 20.4	2.062	2.964	10.1	23.0
4 21	11 16.89	+ 3 53.5	2.144	2.964	13.2	23.2
15446 1998 XQ_{4}			3 15.8 213°.28		3°.5/18.5 18	
2 11	12 9.56	− 8 11.7	1.632	2.437	16.5	17.9
2 21	12 4.28	− 8 18.6	1.546	2.433	12.9	17.6
3 2	11 56.46	− 8 5.1	1.482	2.429	8.9	17.4
3 12	11 46.88	− 7 32.8	1.443	2.424	4.8	17.1
3 22	11 36.62	− 6 45.9	1.431	2.419	3.9	17.1
4 1	11 26.98	− 5 51.2	1.446	2.414	7.6	17.3
4 11	11 19.11	− 4 57.1	1.487	2.408	12.0	17.5
4 21	11 13.76	− 4 10.5	1.550	2.402	15.9	17.7

12058 1998 DV_{11} 3 15.8 340°.24 0°.6/15.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 1.00	− 0 20.3	1.426	2.279	15.8	18.2
2 21	11 58.14	+ 0 26.7	1.346	2.268	11.8	17.9
3 2	11 52.85	+ 1 32.2	1.289	2.258	7.0	17.6
3 12	11 45.87	+ 2 49.7	1.256	2.248	1.9	17.3
3 22	11 38.28	+ 4 10.3	1.249	2.240	3.7	17.4
4 1	11 31.32	+ 5 23.8	1.268	2.232	8.9	17.7
4 11	11 26.11	+ 6 21.8	1.309	2.225	13.7	17.9
4 21	11 23.35	+ 6 59.3	1.371	2.220	17.7	18.1

142079 2002 QB_{44} 3 15.8 204°.48 2°.8/13.2 16

2 11	12 9.21	+ 7 31.1	1.919	2.761	12.8	20.5
2 21	12 3.59	+ 8 15.0	1.840	2.758	9.4	20.2
3 2	11 55.83	+ 9 5.2	1.787	2.753	5.7	20.0
3 12	11 46.66	+ 9 55.4	1.761	2.749	2.8	19.8
3 22	11 37.04	+10 38.9	1.765	2.744	4.8	19.9
4 1	11 28.02	+11 10.1	1.796	2.738	8.6	20.1
4 11	11 20.54	+11 25.2	1.853	2.732	12.3	20.4
4 21	11 15.22	+11 23.4	1.931	2.726	15.4	20.6

144629 2004 FJ_{77} 3 15.8 238°.06 0°.5/16.5 18

2 11	12 2.12	− 3 28.3	2.624	3.434	10.8	20.8
2 21	11 57.94	− 2 42.6	2.526	3.423	8.1	20.6
3 2	11 52.29	− 1 44.1	2.453	3.411	5.0	20.3
3 12	11 45.66	− 0 36.2	2.409	3.399	1.7	20.1
3 22	11 38.67	+ 0 36.1	2.396	3.387	2.0	20.1
4 1	11 32.00	+ 1 47.5	2.413	3.375	5.4	20.3
4 11	11 26.32	+ 2 52.6	2.457	3.362	8.6	20.5
4 21	11 22.08	+ 3 47.4	2.527	3.349	11.4	20.6

435348 2007 VN_{168} 3 15.8 73°.66 5°.2/10.1 18

2 11	12 6.88	+16 45.2	2.186	3.036	11.2	21.1
2 21	12 1.43	+17 43.9	2.142	3.057	8.4	21.0
3 2	11 54.29	+18 39.5	2.124	3.078	6.0	20.8
3 12	11 46.17	+19 25.3	2.134	3.099	5.3	20.8
3 22	11 37.93	+19 56.2	2.172	3.120	6.8	21.0
4 1	11 30.41	+20 9.0	2.238	3.141	9.2	21.2
4 11	11 24.31	+20 3.0	2.327	3.162	11.7	21.3
4 21	11 20.06	+19 39.6	2.437	3.182	13.9	21.5

11835 1985 RA_{4} 3 15.8 248°.68 0°.4/16.2 18

2 11	12 7.22	− 0 40.7	2.076	2.898	12.8	18.3
2 21	12 2.04	− 0 30.2	1.986	2.890	9.6	18.0
3 2	11 54.89	− 0 8.4	1.920	2.881	5.9	17.8
3 12	11 46.41	+ 0 21.3	1.881	2.872	1.8	17.5
3 22	11 37.44	+ 0 54.5	1.872	2.863	2.5	17.5
4 1	11 28.93	+ 1 26.1	1.891	2.854	6.6	17.8
4 11	11 21.77	+ 1 51.3	1.937	2.844	10.4	18.0
4 21	11 16.56	+ 2 6.8	2.006	2.834	13.7	18.2

377384 2004 RM_{254} 3 15.8 237°.60 3°.7/11.4 17

2 11	12 4.07	+ 8 36.9	2.092	2.941	11.6	21.1
2 21	11 59.73	+10 5.5	2.010	2.931	8.5	20.8
3 2	11 53.50	+11 41.7	1.955	2.921	5.3	20.6
3 12	11 46.02	+13 17.6	1.928	2.910	3.7	20.5
3 22	11 38.08	+14 45.1	1.931	2.899	5.7	20.6
4 1	11 30.60	+15 57.1	1.961	2.887	9.1	20.8
4 11	11 24.40	+16 48.8	2.017	2.875	12.3	21.0
4 21	11 20.07	+17 18.9	2.094	2.863	15.2	21.1

84254 2002 SH_{42} 3 15.8 21°.09 0°.3/15.6 18

2 11	12 3.40	+ 0 12.1	1.687	2.530	14.3	18.9
2 21	11 59.42	+ 0 40.7	1.620	2.536	10.6	18.6
3 2	11 53.36	+ 1 22.6	1.577	2.543	6.3	18.4
3 12	11 45.97	+ 2 12.3	1.559	2.551	1.7	18.1
3 22	11 38.22	+ 3 3.3	1.568	2.559	3.0	18.2
4 1	11 31.16	+ 3 49.0	1.605	2.568	7.5	18.5
4 11	11 25.68	+ 4 23.6	1.666	2.578	11.5	18.8
4 21	11 22.33	+ 4 43.9	1.749	2.588	14.9	19.0

70961 1999 XY_{7} 3 15.8 139°.76 5°.1/11.1 18

2 11	12 12.36	+14 50.3	1.919	2.765	12.7	19.1
2 21	12 5.74	+15 43.6	1.862	2.776	9.5	18.9
3 2	11 56.99	+16 35.7	1.829	2.787	6.5	18.7
3 12	11 46.95	+17 19.0	1.825	2.797	5.2	18.7
3 22	11 36.66	+17 47.2	1.849	2.807	6.9	18.8
4 1	11 27.20	+17 56.4	1.901	2.816	9.9	19.0
4 11	11 19.46	+17 45.5	1.977	2.824	13.0	19.2
4 21	11 13.98	+17 16.3	2.074	2.832	15.6	19.4

503158 2015 GA_{33} 3 15.8 168°.05 3°.7/10.7 17

2 11	12 2.91	+12 10.1	2.567	3.415	9.8	21.8
2 21	11 58.47	+13 21.8	2.499	3.417	7.2	21.6
3 2	11 52.56	+14 35.4	2.458	3.419	4.7	21.4
3 12	11 45.72	+15 45.0	2.446	3.421	3.8	21.4
3 22	11 38.62	+16 44.9	2.463	3.423	5.3	21.5
4 1	11 31.95	+17 30.7	2.509	3.424	7.9	21.6
4 11	11 26.36	+17 59.8	2.581	3.425	10.4	21.8
4 21	11 22.30	+18 11.7	2.674	3.426	12.7	22.0

434848 2006 SX_{150} 3 15.8 156°.06 0°.5/16.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.55	− 1 54.9	2.537	3.352	10.9	21.9
2 21	11 58.94	− 1 28.9	2.455	3.356	8.2	21.8
3 2	11 52.84	− 0 52.3	2.399	3.359	5.0	21.6
3 12	11 45.80	− 0 8.6	2.371	3.361	1.6	21.3
3 22	11 38.48	+ 0 38.3	2.373	3.364	2.0	21.4
4 1	11 31.58	+ 1 23.6	2.404	3.366	5.4	21.6
4 11	11 25.74	+ 2 3.0	2.463	3.369	8.6	21.8
4 21	11 21.43	+ 2 33.4	2.547	3.371	11.3	22.0

130535 2000 QU_{207} 3 15.8 130°.81 0°.1/15.7 18

2 11	12 10.48	− 0 25.7	1.949	2.770	13.6	20.6
2 21	12 4.30	+ 0 7.7	1.883	2.787	10.0	20.4
3 2	11 56.12	+ 0 53.3	1.842	2.804	6.0	20.2
3 12	11 46.72	+ 1 46.0	1.828	2.820	1.6	20.0
3 22	11 37.04	+ 2 40.0	1.845	2.835	2.8	20.1
4 1	11 28.09	+ 3 29.1	1.890	2.849	6.9	20.4
4 11	11 20.73	+ 4 8.1	1.963	2.863	10.7	20.6
4 21	11 15.48	+ 4 34.2	2.058	2.875	13.8	20.9

156213 2001 UH_{63} 3 15.8 217°.75 2°.1/13.9 18

2 11	12 9.71	+ 4 28.2	1.783	2.622	13.8	21.0
2 21	12 4.17	+ 5 16.3	1.699	2.615	10.2	20.8
3 2	11 56.30	+ 6 14.8	1.639	2.606	6.0	20.5
3 12	11 46.83	+ 7 17.5	1.606	2.597	2.3	20.3
3 22	11 36.77	+ 8 16.6	1.602	2.587	4.4	20.4
4 1	11 27.30	+ 9 5.1	1.627	2.576	8.7	20.6
4 11	11 19.46	+ 9 37.6	1.676	2.564	12.8	20.8
4 21	11 13.93	+ 9 51.9	1.747	2.552	16.4	21.0

341293 2007 RJ_{302} 3 15.8 200°.84 1°.8/13.7 17

2 11	12 4.45	+ 5 28.6	2.447	3.284	10.6	21.6
2 21	11 59.67	+ 6 10.7	2.367	3.281	7.7	21.4
3 2	11 53.31	+ 6 59.1	2.312	3.279	4.5	21.2
3 12	11 45.94	+ 7 49.2	2.286	3.276	1.9	21.0
3 22	11 38.26	+ 8 35.9	2.290	3.273	3.5	21.1
4 1	11 31.00	+ 9 14.5	2.324	3.270	6.7	21.3
4 11	11 24.88	+ 9 41.6	2.384	3.266	9.8	21.5
4 21	11 20.35	+ 9 55.3	2.467	3.262	12.4	21.7

273073 2006 DF_{215} 3 15.8 40°.64 1°.1/16.9 18

2 11	12 1.64	− 6 2.7	1.785	2.606	14.6	20.1
2 21	11 58.07	− 5 0.8	1.710	2.612	11.0	19.8
3 2	11 52.54	− 3 38.2	1.659	2.618	6.9	19.6
3 12	11 45.75	− 2 0.6	1.634	2.624	2.6	19.3
3 22	11 38.59	− 0 16.1	1.638	2.630	2.6	19.3
4 1	11 32.03	+ 1 25.9	1.670	2.637	6.9	19.6
4 11	11 26.94	+ 2 56.8	1.728	2.644	10.9	19.9
4 21	11 23.85	+ 4 10.7	1.809	2.651	14.4	20.1

457596 2009 BU_{16} 3 15.8 151°.10 2°.1/13.8 18

2 11	12 8.29	+ 3 45.9	1.818	2.657	13.6	22.0
2 21	12 2.90	+ 4 51.6	1.750	2.666	9.9	21.8
3 2	11 55.39	+ 6 8.1	1.707	2.674	5.8	21.6
3 12	11 46.55	+ 7 27.9	1.692	2.682	2.2	21.3
3 22	11 37.34	+ 8 43.2	1.706	2.689	4.3	21.5
4 1	11 28.83	+ 9 46.3	1.748	2.695	8.4	21.7
4 11	11 21.93	+10 32.2	1.815	2.700	12.2	22.0
4 21	11 17.21	+10 59.0	1.904	2.705	15.4	22.2

379042 2008 WV_{23} 3 15.8 93°.94 3°.8/19.9 17

2 11	12 4.13	−11 52.0	2.098	2.880	14.1	20.9
2 21	11 59.71	−11 46.1	2.016	2.885	11.2	20.7
3 2	11 53.45	−11 20.7	1.957	2.890	8.0	20.5
3 12	11 46.01	−10 37.4	1.923	2.895	5.0	20.3
3 22	11 38.19	− 9 40.2	1.917	2.900	3.9	20.3
4 1	11 30.89	− 8 34.8	1.939	2.906	6.1	20.4
4 11	11 24.90	− 7 28.4	1.989	2.911	9.4	20.6
4 21	11 20.78	− 6 27.1	2.062	2.916	12.4	20.8

450514 2006 AL_{76} 3 15.8 70°.22 0°.3/15.6 18

2 11	12 8.70	− 0 41.4	1.302	2.147	17.5	22.1
2 21	12 3.72	− 0 0.8	1.249	2.166	12.9	21.8
3 2	11 56.05	+ 0 57.3	1.217	2.184	7.7	21.6
3 12	11 46.74	+ 2 5.7	1.210	2.202	2.1	21.3
3 22	11 37.11	+ 3 14.8	1.230	2.221	3.6	21.4
4 1	11 28.55	+ 4 15.2	1.275	2.239	8.9	21.8
4 11	11 22.16	+ 5 0.0	1.344	2.257	13.6	22.1
4 21	11 18.53	+ 5 25.6	1.433	2.275	17.4	22.4

412647 2014 OL_{188} 3 15.8 241°.04 0°.5/16.2 17

2 11	12 8.16	− 1 54.1	1.706	2.534	14.9	21.5
2 21	12 3.17	− 1 28.5	1.617	2.523	11.2	21.2
3 2	11 55.78	− 0 46.8	1.550	2.512	6.9	21.0
3 12	11 46.72	+ 0 6.8	1.510	2.501	2.2	20.6
3 22	11 37.00	+ 1 5.8	1.497	2.489	2.9	20.7
4 1	11 27.82	+ 2 2.8	1.513	2.477	7.8	20.9
4 11	11 20.27	+ 2 50.6	1.554	2.464	12.3	21.2
4 21	11 15.08	+ 3 24.4	1.616	2.451	16.2	21.4

495584 2015 *AW* 3 15.8 106°.85 5°.2/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 7.98	+14 20.1	2.052	2.902	11.8	21.7
2 21	12 2.35	+15 53.2	2.009	2.926	8.7	21.5
3 2	11 54.90	+17 25.6	1.993	2.950	6.1	21.4
3 12	11 46.38	+18 48.6	2.005	2.973	5.3	21.4
3 22	11 37.70	+19 55.1	2.046	2.995	7.1	21.6
4 1	11 29.77	+20 40.6	2.115	3.017	9.8	21.8
4 11	11 23.36	+21 3.6	2.207	3.037	12.4	22.0
4 21	11 18.92	+21 5.2	2.320	3.058	14.7	22.2

279006 2008 UU_{260} 3 15.8 206°.25 2°.7/12.8 17

2 11	12 5.65	+ 8 4.9	2.291	3.133	11.0	21.1
2 21	12 0.68	+ 8 54.9	2.212	3.130	8.0	20.9
3 2	11 53.97	+ 9 50.1	2.160	3.126	4.9	20.7
3 12	11 46.16	+10 44.7	2.135	3.122	2.7	20.5
3 22	11 38.00	+11 33.1	2.141	3.117	4.4	20.6
4 1	11 30.31	+12 10.3	2.175	3.112	7.6	20.8
4 11	11 23.85	+12 33.1	2.235	3.107	10.8	21.0
4 21	11 19.13	+12 40.2	2.317	3.101	13.5	21.2

41885 2000 WA_{115} 3 15.8 93°.78 0°.3/16.1 18

2 11	12 7.12	− 0 34.9	1.907	2.734	13.5	19.4
2 21	12 2.00	− 0 20.1	1.833	2.739	10.1	19.2
3 2	11 54.85	+ 0 6.6	1.782	2.744	6.1	18.9
3 12	11 46.42	+ 0 41.3	1.758	2.749	1.8	18.6
3 22	11 37.60	+ 1 18.8	1.763	2.754	2.6	18.7
4 1	11 29.40	+ 1 53.8	1.796	2.759	6.9	19.0
4 11	11 22.70	+ 2 21.0	1.855	2.764	10.7	19.2
4 21	11 18.06	+ 2 37.3	1.937	2.768	14.0	19.4

433531 2013 WA_{84} 3 15.8 149°.91 6°.6/ 7.4 17

2 11	12 7.49	+22 51.5	2.444	3.286	10.4	21.7
2 21	12 1.90	+24 5.8	2.393	3.294	8.3	21.6
3 2	11 54.62	+25 13.7	2.368	3.301	6.8	21.5
3 12	11 46.32	+26 8.1	2.371	3.308	6.8	21.5
3 22	11 37.79	+26 43.9	2.402	3.314	8.2	21.6
4 1	11 29.87	+26 58.2	2.459	3.320	10.2	21.7
4 11	11 23.28	+26 50.9	2.539	3.325	12.3	21.9
4 21	11 18.48	+26 23.9	2.639	3.330	14.1	22.0

414755 2010 GK_{92} 3 15.8 246°.64 3°.6/12.3 17

2 11	12 8.19	+ 8 8.3	1.890	2.736	12.8	21.5
2 21	12 3.06	+ 9 17.9	1.798	2.718	9.5	21.3
3 2	11 55.68	+10 36.1	1.732	2.699	5.8	21.0
3 12	11 46.70	+11 55.2	1.694	2.679	3.6	20.8
3 22	11 37.08	+13 6.8	1.685	2.658	5.7	20.9
4 1	11 27.91	+14 3.3	1.703	2.637	9.6	21.1
4 11	11 20.22	+14 39.9	1.747	2.615	13.4	21.3
4 21	11 14.73	+14 54.9	1.811	2.593	16.7	21.5

387982 2005 NQ_{41} 3 15.8 182°.16 3°.7/20.4 18

2 11	12 4.08	−13 4.5	2.684	3.444	11.9	21.5
2 21	11 59.36	−13 8.8	2.591	3.444	9.6	21.4
3 2	11 53.14	−12 57.3	2.522	3.444	7.0	21.2
3 12	11 45.93	−12 31.0	2.479	3.444	4.7	21.1
3 22	11 38.39	−11 52.3	2.466	3.444	3.8	21.0
4 1	11 31.21	−11 5.0	2.482	3.443	5.3	21.1
4 11	11 25.06	−10 14.3	2.525	3.442	7.9	21.3
4 21	11 20.41	− 9 24.9	2.595	3.441	10.4	21.4

63631 2001 QY_{83} 3 15.8 124°.10 1°.3/17.3 18

2 11	12 7.05	− 5 27.7	2.359	3.157	12.2	19.7
2 21	12 1.51	− 4 53.1	2.290	3.178	9.2	19.5
3 2	11 54.37	− 4 4.6	2.245	3.198	5.9	19.3
3 12	11 46.26	− 3 6.0	2.230	3.217	2.4	19.1
3 22	11 37.93	− 2 2.0	2.244	3.236	2.2	19.2
4 1	11 30.18	− 0 58.5	2.289	3.253	5.5	19.4
4 11	11 23.68	− 0 0.8	2.362	3.270	8.8	19.6
4 21	11 18.90	+ 0 47.2	2.460	3.286	11.6	19.8

436745 2011 WL_{18} 3 15.8 256°.38 3°.4/20.3 17

2 11	12 1.55	−13 15.6	2.563	3.329	12.2	21.7
2 21	11 57.62	−12 50.8	2.459	3.318	9.8	21.5
3 2	11 52.16	−12 7.4	2.379	3.307	7.1	21.3
3 12	11 45.67	−11 7.1	2.326	3.296	4.5	21.1
3 22	11 38.80	− 9 53.5	2.302	3.284	3.4	21.0
4 1	11 32.27	− 8 31.7	2.307	3.273	5.4	21.1
4 11	11 26.74	− 7 8.4	2.340	3.261	8.2	21.3
4 21	11 22.72	− 5 49.4	2.399	3.249	11.0	21.4

245030 2004 EH_{23} 3 15.8 61°.37 1°.5/14.1 18

2 11	12 3.26	+ 3 29.7	2.067	2.908	12.1	20.4
2 21	11 58.98	+ 4 21.4	2.000	2.917	8.8	20.2
3 2	11 52.97	+ 5 22.0	1.959	2.927	5.1	20.0
3 12	11 45.88	+ 6 25.9	1.945	2.936	1.8	19.8
3 22	11 38.52	+ 7 26.6	1.960	2.946	3.5	19.9
4 1	11 31.73	+ 8 18.4	2.004	2.955	7.2	20.2
4 11	11 26.25	+ 8 56.8	2.073	2.965	10.6	20.4
4 21	11 22.57	+ 9 19.7	2.165	2.975	13.5	20.6

323419 2004 EF_{10} 3 15.8 345°.33 0°.4/16.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 1.87	− 4 23.5	1.520	2.356	15.9	20.0
2 21	11 58.63	− 3 16.5	1.442	2.353	12.0	19.8
3 2	11 53.08	− 1 46.3	1.387	2.350	7.4	19.5
3 12	11 45.97	+ 0 0.5	1.357	2.348	2.3	19.2
3 22	11 38.35	+ 1 54.0	1.354	2.346	3.1	19.2
4 1	11 31.37	+ 3 42.6	1.379	2.344	8.2	19.5
4 11	11 26.07	+ 5 16.2	1.428	2.343	12.8	19.8
4 21	11 23.10	+ 6 28.3	1.498	2.342	16.7	20.0

322708 2000 DH_{117} 3 15.8 41°.38 1°.6/14.1 18

2 11	12 2.42	− 0 2.9	1.565	2.412	15.0	21.0
2 21	11 58.91	+ 1 33.3	1.495	2.415	10.9	20.8
3 2	11 53.17	+ 3 28.3	1.450	2.419	6.3	20.5
3 12	11 45.98	+ 5 32.7	1.431	2.423	1.9	20.2
3 22	11 38.37	+ 7 35.1	1.440	2.427	4.4	20.4
4 1	11 31.43	+ 9 24.1	1.477	2.431	9.0	20.7
4 11	11 26.15	+10 51.3	1.538	2.435	13.3	20.9
4 21	11 23.13	+11 53.0	1.621	2.440	16.8	21.2

203489 2002 AL_{80} 3 15.8 187°.62 1°.5/17.1 18

2 11	12 9.89	− 4 23.1	1.889	2.699	14.3	20.8
2 21	12 4.17	− 4 7.1	1.804	2.698	11.0	20.6
3 2	11 56.25	− 3 35.3	1.742	2.698	7.0	20.4
3 12	11 46.85	− 2 50.7	1.708	2.696	2.8	20.1
3 22	11 36.94	− 1 58.6	1.702	2.694	2.7	20.1
4 1	11 27.61	− 1 5.5	1.726	2.691	6.9	20.3
4 11	11 19.83	− 0 17.9	1.776	2.687	11.0	20.6
4 21	11 14.26	+ 0 19.4	1.849	2.682	14.5	20.8

296863 2009 WW_{260} 3 15.8 240°.01 2°.0/13.7 17

2 11	12 5.96	+ 5 12.6	2.067	2.907	12.1	21.2
2 21	12 1.12	+ 5 57.8	1.982	2.899	8.9	21.0
3 2	11 54.36	+ 6 51.3	1.922	2.890	5.2	20.8
3 12	11 46.31	+ 7 47.4	1.891	2.880	2.1	20.5
3 22	11 37.81	+ 8 39.9	1.888	2.871	4.0	20.6
4 1	11 29.80	+ 9 23.0	1.914	2.861	7.8	20.8
4 11	11 23.12	+ 9 52.2	1.965	2.851	11.3	21.0
4 21	11 18.36	+10 5.6	2.039	2.841	14.4	21.2

130785 2000 TM_{12} 3 15.8 97°.09 4°.2/12.1 18

2 11	12 7.75	+ 8 23.2	1.523	2.380	14.7	19.6
2 21	12 2.80	+ 9 42.1	1.467	2.392	10.7	19.4
3 2	11 55.45	+11 8.0	1.436	2.404	6.6	19.2
3 12	11 46.60	+12 31.1	1.431	2.415	4.2	19.1
3 22	11 37.42	+13 41.7	1.453	2.427	6.5	19.2
4 1	11 29.13	+14 32.4	1.501	2.438	10.5	19.5
4 11	11 22.73	+14 59.4	1.573	2.449	14.3	19.7
4 21	11 18.81	+15 2.8	1.664	2.459	17.5	20.0

419190 2009 UX_{30} 3 15.8 124°.11 2°.4/13.4 18

2 11	12 7.40	+ 6 44.7	2.073	2.914	12.1	21.1
2 21	12 2.00	+ 7 29.4	2.008	2.925	8.8	20.9
3 2	11 54.76	+ 8 20.0	1.968	2.935	5.2	20.7
3 12	11 46.39	+ 9 10.4	1.957	2.945	2.4	20.6
3 22	11 37.75	+ 9 55.0	1.975	2.955	4.2	20.7
4 1	11 29.75	+10 28.5	2.021	2.965	7.7	20.9
4 11	11 23.17	+10 47.9	2.094	2.974	11.0	21.2
4 21	11 18.52	+10 51.9	2.188	2.983	13.8	21.4

495948 2006 UM_{151} 3 15.8 71°.80 5°.7/21.9 18

2 11	12 5.98	−17 31.8	1.665	2.430	17.8	22.1
2 21	12 1.33	−17 10.7	1.605	2.456	14.5	21.9
3 2	11 54.49	−16 20.2	1.564	2.482	10.9	21.7
3 12	11 46.33	−15 2.5	1.548	2.508	7.4	21.6
3 22	11 37.92	−13 23.9	1.557	2.534	5.7	21.5
4 1	11 30.37	−11 33.9	1.595	2.560	7.3	21.7
4 11	11 24.58	− 9 43.8	1.659	2.586	10.6	21.9
4 21	11 21.07	− 8 2.7	1.746	2.611	13.8	22.2

4751 Alicemanning 3 15.8 286°.40 0°.8/14.9 18 R

2 11	12 2.87	+ 1 44.3	2.324	3.156	11.2	17.3
2 21	11 58.72	+ 2 22.1	2.228	3.139	8.3	17.1
3 2	11 52.88	+ 3 9.9	2.157	3.122	4.9	16.9
3 12	11 45.91	+ 4 3.5	2.114	3.105	1.4	16.6
3 22	11 38.50	+ 4 57.8	2.100	3.088	2.8	16.7
4 1	11 31.44	+ 5 47.3	2.115	3.071	6.5	16.9
4 11	11 25.48	+ 6 27.1	2.157	3.054	10.0	17.0
4 21	11 21.16	+ 6 54.4	2.222	3.037	13.0	17.2

370816 2004 TZ_{297} 3 15.8 108°.26 5°.7/22.2 17

2 11	12 6.57	−17 44.8	2.184	2.925	14.8	21.0
2 21	12 1.45	−17 56.7	2.107	2.941	12.3	20.8
3 2	11 54.48	−17 46.6	2.052	2.956	9.5	20.6
3 12	11 46.34	−17 14.8	2.022	2.971	6.9	20.5
3 22	11 37.86	−16 24.0	2.019	2.985	5.7	20.5
4 1	11 29.96	−15 19.4	2.044	2.999	6.8	20.5
4 11	11 23.43	−14 8.4	2.096	3.013	9.2	20.7
4 21	11 18.80	−12 57.8	2.173	3.027	11.9	20.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
360406 2002 GS_{33}			3 15.8 338°.72	5°.1/12.3 18		
	h m	° ′			°	m
2 11	12 7.97	+10 48.2	1.252	2.122	16.4	20.3
2 21	12 3.63	+11 35.4	1.185	2.115	12.2	20.0
3 2	11 56.29	+12 27.7	1.139	2.108	7.7	19.8
3 12	11 46.92	+13 15.3	1.117	2.102	5.1	19.6
3 22	11 36.90	+13 48.2	1.120	2.096	7.6	19.7
4 1	11 27.78	+13 59.3	1.147	2.091	12.1	19.9
4 11	11 20.91	+13 45.5	1.196	2.087	16.6	20.2
4 21	11 17.03	+13 8.1	1.261	2.084	20.5	20.4
286410 2001 YD_{104}			3 15.8 102°.36	3°.0/18.5 18		
2 11	12 9.29	− 8 37.3	1.593	2.398	16.8	21.0
2 21	12 3.86	− 8 22.4	1.529	2.416	13.0	20.8
3 2	11 56.07	− 7 45.5	1.486	2.434	8.7	20.6
3 12	11 46.79	− 6 49.8	1.468	2.451	4.5	20.4
3 22	11 37.16	− 5 41.8	1.478	2.468	3.5	20.3
4 1	11 28.39	− 4 29.7	1.516	2.484	7.3	20.6
4 11	11 21.48	− 3 22.3	1.579	2.500	11.4	20.9
4 21	11 17.03	− 2 26.0	1.664	2.515	15.0	21.1
295622 2008 SH_{224}			3 15.8 93°.77	1°.1/16.8 18		
2 11	12 7.91	− 4 7.1	1.431	2.262	17.0	21.5
2 21	12 3.10	− 3 34.1	1.366	2.273	12.8	21.2
3 2	11 55.73	− 2 40.6	1.323	2.284	8.0	21.0
3 12	11 46.72	− 1 32.1	1.305	2.295	2.8	20.7
3 22	11 37.28	− 0 16.8	1.313	2.305	3.1	20.7
4 1	11 28.72	+ 0 55.7	1.349	2.316	8.1	21.0
4 11	11 22.13	+ 1 56.9	1.408	2.326	12.7	21.3
4 21	11 18.15	+ 2 41.5	1.489	2.336	16.7	21.6
245920 2006 RG_{4}			3 15.8 181°.84	0°.4/16.3 18		
2 11	12 2.30	− 2 47.8	2.622	3.435	10.7	20.8
2 21	11 58.03	− 2 2.9	2.536	3.435	8.0	20.7
3 2	11 52.34	− 1 6.3	2.476	3.435	4.9	20.5
3 12	11 45.74	− 0 1.6	2.444	3.435	1.5	20.2
3 22	11 38.84	+ 1 6.4	2.443	3.435	2.0	20.3
4 1	11 32.33	+ 2 12.4	2.472	3.434	5.4	20.5
4 11	11 26.82	+ 3 11.5	2.529	3.433	8.4	20.7
4 21	11 22.76	+ 4 0.1	2.611	3.432	11.1	20.9
83325 2001 RE_{128}			3 15.8 154°.07	1°.8/13.6 17		
2 11	12 2.41	+ 3 54.8	2.283	3.122	11.2	19.4
2 21	11 58.29	+ 4 59.2	2.207	3.124	8.1	19.2
3 2	11 52.56	+ 6 12.4	2.157	3.125	4.7	18.9
3 12	11 45.80	+ 7 28.7	2.136	3.127	1.9	18.8
3 22	11 38.74	+ 8 41.7	2.145	3.128	3.6	18.9
4 1	11 32.13	+ 9 45.5	2.183	3.129	7.0	19.1
4 11	11 26.69	+10 35.5	2.246	3.130	10.2	19.3
4 21	11 22.89	+11 9.4	2.333	3.131	13.0	19.5
40635 1999 RV_{179}			3 15.8 189°.48	2°.9/12.9 18		
2 11	12 7.80	+ 6 46.0	1.871	2.716	13.0	19.7
2 21	12 2.60	+ 7 49.1	1.797	2.715	9.5	19.5
3 2	11 55.29	+ 9 0.2	1.747	2.714	5.7	19.2
3 12	11 46.59	+10 12.1	1.725	2.713	3.0	19.1
3 22	11 37.46	+11 17.1	1.732	2.711	5.0	19.2
4 1	11 28.95	+12 8.2	1.767	2.708	8.9	19.4
4 11	11 21.97	+12 41.3	1.828	2.705	12.5	19.6
4 21	11 17.14	+12 54.9	1.909	2.701	15.7	19.8
324502 2006 UO_{288}			3 15.8 15°.99	1°.1/16.5 18		
2 11	12 6.05	− 1 5.9	1.189	2.043	18.2	19.9
2 21	12 2.13	− 1 13.9	1.129	2.049	13.7	19.6
3 2	11 55.32	− 1 4.9	1.090	2.056	8.5	19.3
3 12	11 46.63	− 0 43.1	1.073	2.064	2.9	19.0
3 22	11 37.44	− 0 15.2	1.081	2.074	3.4	19.1
4 1	11 29.24	+ 0 11.4	1.113	2.084	8.9	19.4
4 11	11 23.28	+ 0 29.5	1.168	2.096	13.9	19.7
4 21	11 20.23	+ 0 34.8	1.242	2.109	18.0	20.0
504596 2008 UP_{106}			3 15.8 272°.04	3°.3/12.8 17		
2 11	12 10.09	+10 6.9	2.076	2.917	12.0	21.7
2 21	12 4.34	+10 40.0	1.977	2.892	8.9	21.5
3 2	11 56.41	+11 17.0	1.903	2.867	5.6	21.2
3 12	11 46.94	+11 51.9	1.857	2.842	3.3	21.0
3 22	11 36.83	+12 18.9	1.841	2.816	5.2	21.1
4 1	11 27.12	+12 32.9	1.853	2.789	8.8	21.3
4 11	11 18.79	+12 30.9	1.890	2.762	12.4	21.4
4 21	11 12.54	+12 12.2	1.950	2.735	15.6	21.6
76215 2000 ET_{65}			3 15.8 224°.42	0°.1/15.7 18		
2 11	12 4.72	− 0 2.5	2.358	3.180	11.4	19.4
2 21	11 59.99	+ 0 25.4	2.269	3.175	8.5	19.2
3 2	11 53.60	+ 1 3.6	2.206	3.169	5.1	18.9
3 12	11 46.11	+ 1 48.3	2.171	3.163	1.4	18.7
3 22	11 38.24	+ 2 35.0	2.166	3.157	2.4	18.7
4 1	11 30.79	+ 3 18.7	2.190	3.150	6.1	19.0
4 11	11 24.49	+ 3 54.8	2.241	3.143	9.4	19.2
4 21	11 19.84	+ 4 20.3	2.316	3.136	12.4	19.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
93590 2000 UY_{52}			3 15.8 109°.67	6°.5/ 9.2 18		
	h m	° ′			°	m
2 11	12 9.94	+19 47.8	2.046	2.893	11.9	19.7
2 21	12 3.88	+20 52.1	1.998	2.907	9.2	19.5
3 2	11 55.87	+21 51.0	1.975	2.921	7.1	19.4
3 12	11 46.71	+22 36.6	1.981	2.935	6.6	19.4
3 22	11 37.37	+23 3.4	2.013	2.948	8.1	19.5
4 1	11 28.82	+23 8.2	2.072	2.961	10.6	19.7
4 11	11 21.89	+22 51.2	2.155	2.974	13.1	19.9
4 21	11 17.06	+22 14.6	2.257	2.986	15.3	20.1
497491 2006 AB_{24}			3 15.8 169°.00	6°.5/22.7 17		
2 11	12 6.82	−19 15.1	2.154	2.887	15.2	21.5
2 21	12 1.81	−19 38.7	2.065	2.890	12.8	21.3
3 2	11 54.82	−19 39.6	1.997	2.892	10.2	21.2
3 12	11 46.48	−19 17.1	1.953	2.893	7.7	21.0
3 22	11 37.66	−18 32.8	1.935	2.895	6.5	20.9
4 1	11 29.32	−17 31.3	1.945	2.896	7.4	21.0
4 11	11 22.35	−16 20.0	1.982	2.897	9.8	21.1
4 21	11 17.36	−15 6.5	2.043	2.897	12.5	21.3
375746 2009 SY_{39}			3 15.8 138°.46	1°.1/17.1 15		
2 11	12 5.58	− 4 39.7	2.144	2.953	12.9	23.0
2 21	12 0.68	− 4 5.6	2.067	2.962	9.7	22.8
3 2	11 54.01	− 3 16.6	2.015	2.971	6.1	22.6
3 12	11 46.22	− 2 16.5	1.991	2.980	2.3	22.3
3 22	11 38.12	− 1 10.9	1.996	2.988	2.3	22.3
4 1	11 30.56	− 0 5.9	2.030	2.995	6.0	22.6
4 11	11 24.32	+ 0 52.4	2.092	3.002	9.6	22.8
4 21	11 19.89	+ 1 39.7	2.178	3.009	12.7	23.0
355242 2007 DG_{11}			3 15.8 94°.23	0°.6/15.0 18		
2 11	12 0.85	+ 0 41.9	2.667	3.494	10.1	20.8
2 21	11 56.92	+ 1 32.2	2.590	3.499	7.4	20.6
3 2	11 51.66	+ 2 31.7	2.539	3.504	4.4	20.4
3 12	11 45.55	+ 3 36.2	2.517	3.509	1.2	20.2
3 22	11 39.21	+ 4 40.6	2.525	3.514	2.4	20.3
4 1	11 33.25	+ 5 40.2	2.563	3.519	5.6	20.5
4 11	11 28.27	+ 6 30.6	2.629	3.524	8.5	20.7
4 21	11 24.67	+ 7 9.3	2.718	3.529	11.0	20.9
190403 1999 TV_{191}			3 15.8 170°.09	3°.1/19.6 17		
2 11	12 5.80	−11 15.6	2.619	3.387	11.9	21.0
2 21	12 0.63	−11 8.3	2.529	3.391	9.5	20.8
3 2	11 53.91	−10 45.3	2.463	3.395	6.7	20.6
3 12	11 46.20	−10 8.2	2.425	3.398	4.1	20.5
3 22	11 38.15	− 9 20.0	2.417	3.400	3.2	20.4
4 1	11 30.52	− 8 25.3	2.438	3.402	5.3	20.5
4 11	11 23.96	− 7 29.2	2.488	3.403	8.1	20.7
4 21	11 18.97	− 6 36.8	2.564	3.404	10.7	20.9
313748 2003 UE_{251}			3 15.8 96°.70	0°.1/15.7 18		
2 11	12 9.88	− 0 3.9	1.667	2.498	15.0	21.4
2 21	12 4.16	+ 0 21.6	1.606	2.516	11.1	21.2
3 2	11 56.18	+ 1 0.2	1.569	2.533	6.6	21.0
3 12	11 46.83	+ 1 46.7	1.558	2.550	1.8	20.7
3 22	11 37.19	+ 2 34.4	1.576	2.566	3.0	20.8
4 1	11 28.40	+ 3 16.8	1.621	2.583	7.6	21.2
4 11	11 21.40	+ 3 48.5	1.692	2.599	11.7	21.4
4 21	11 16.76	+ 4 6.4	1.785	2.614	15.1	21.7
228337 2000 SS_{76}			3 15.8 208°.59	2°.4/12.9 18		
2 11	12 6.81	+ 7 39.7	2.507	3.342	10.4	21.4
2 21	12 1.45	+ 8 30.7	2.421	3.335	7.6	21.2
3 2	11 54.44	+ 9 27.0	2.362	3.327	4.6	21.0
3 12	11 46.35	+10 23.3	2.333	3.319	2.5	20.8
3 22	11 37.90	+11 14.3	2.333	3.310	4.1	20.9
4 1	11 29.85	+11 55.2	2.364	3.300	7.2	21.1
4 11	11 22.93	+12 22.7	2.421	3.289	10.2	21.3
4 21	11 17.65	+12 35.4	2.501	3.278	12.8	21.4
5343 Ryzhov			3 15.8 113°.30	5°.5/11.3 18		
2 11	12 11.67	+12 54.4	1.525	2.381	14.8	17.2
2 21	12 5.69	+14 2.9	1.472	2.394	10.9	17.0
3 2	11 57.18	+15 12.7	1.444	2.407	7.2	16.8
3 12	11 47.12	+16 13.8	1.442	2.419	5.6	16.8
3 22	11 36.76	+16 57.8	1.467	2.431	7.7	16.9
4 1	11 27.41	+17 19.1	1.517	2.442	11.3	17.1
4 11	11 20.12	+17 16.1	1.591	2.453	14.9	17.4
4 21	11 15.46	+16 51.0	1.684	2.463	17.9	17.6
284867 2009 CU_{41}			3 15.8 184°.50	3°.6/11.2 17		
2 11	12 2.59	+ 9 43.7	2.314	3.164	10.6	21.1
2 21	11 58.43	+11 6.5	2.243	3.164	7.8	20.9
3 2	11 52.66	+12 34.0	2.198	3.163	4.9	20.7
3 12	11 45.85	+13 59.4	2.183	3.163	3.6	20.6
3 22	11 38.73	+15 15.8	2.197	3.163	5.4	20.7
4 1	11 32.06	+16 17.4	2.240	3.162	8.3	20.9
4 11	11 26.56	+17 0.9	2.307	3.162	11.1	21.1
4 21	11 22.71	+17 25.1	2.397	3.161	13.6	21.3

451035 2008 WT_{116} 3 15.8 39°.95 2°.5/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 7.52	+ 4 22.2	1.115	1.983	18.2	20.8
2 21	12 3.18	+ 5 7.1	1.069	1.998	13.2	20.5
3 2	11 55.88	+ 6 4.7	1.043	2.015	7.7	20.3
3 12	11 46.78	+ 7 5.3	1.041	2.032	2.8	20.0
3 22	11 37.35	+ 7 58.6	1.063	2.050	5.4	20.2
4 1	11 29.15	+ 8 35.9	1.109	2.068	10.6	20.6
4 11	11 23.35	+ 8 52.2	1.177	2.088	15.4	20.9
4 21	11 20.53	+ 8 46.8	1.263	2.107	19.3	21.2

277781 2006 DK_{209} 3 15.8 201°.46 1°.0/14.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.42	+ 2 15.9	2.442	3.271	10.9	21.7
2 21	11 59.71	+ 3 5.3	2.357	3.267	8.0	21.5
3 2	11 53.41	+ 4 3.9	2.298	3.263	4.7	21.3
3 12	11 46.07	+ 5 7.1	2.267	3.259	1.4	21.0
3 22	11 38.39	+ 6 9.5	2.267	3.254	2.9	21.1
4 1	11 31.11	+ 7 5.6	2.296	3.248	6.4	21.4
4 11	11 24.95	+ 7 51.1	2.353	3.242	9.6	21.5
4 21	11 20.38	+ 8 23.3	2.433	3.236	12.4	21.7

73964 1997 WK_{42} 3 15.8 110°.79 0°.2/15.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.25	+ 0 6.8	2.595	3.412	10.7	20.5
2 21	12 0.07	+ 0 43.1	2.530	3.433	7.8	20.3
3 2	11 53.48	+ 1 28.2	2.492	3.454	4.6	20.2
3 12	11 46.06	+ 2 18.1	2.482	3.474	1.2	20.0
3 22	11 38.46	+ 3 8.4	2.504	3.493	2.2	20.1
4 1	11 31.37	+ 3 54.5	2.555	3.513	5.5	20.3
4 11	11 25.39	+ 4 32.8	2.634	3.531	8.4	20.5
4 21	11 20.93	+ 5 0.7	2.738	3.549	10.9	20.7

371267 2006 DM_{36} 3 15.8 87°.49 0°.3/16.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.56	− 3 49.9	1.988	2.808	13.3	20.9
2 21	11 59.24	− 2 43.4	1.922	2.825	9.9	20.7
3 2	11 53.16	− 1 20.9	1.881	2.842	6.0	20.5
3 12	11 45.99	+ 0 12.0	1.868	2.859	1.8	20.3
3 22	11 38.57	+ 1 47.5	1.884	2.875	2.5	20.3
4 1	11 31.77	+ 3 17.8	1.930	2.892	6.5	20.6
4 11	11 26.34	+ 4 36.1	2.002	2.908	10.2	20.9
4 21	11 22.77	+ 5 38.2	2.098	2.924	13.3	21.1

410074 2007 CM_{58} 3 15.8 60°.56 3°.3/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.39	+ 7 58.0	1.556	2.411	14.6	20.6
2 21	12 3.15	+ 8 45.7	1.505	2.428	10.6	20.4
3 2	11 55.61	+ 9 39.1	1.477	2.445	6.4	20.2
3 12	11 46.68	+10 30.4	1.476	2.463	3.4	20.0
3 22	11 37.51	+11 12.0	1.501	2.480	5.5	20.2
4 1	11 29.28	+11 38.1	1.553	2.498	9.5	20.5
4 11	11 22.92	+11 45.8	1.629	2.516	13.2	20.7
4 21	11 18.98	+11 35.0	1.725	2.534	16.4	21.0

459047 2012 AL_{13} 3 15.8 3°.44 1°.4/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.23	+ 1 58.6	1.293	2.153	16.7	20.7
2 21	12 0.69	+ 2 40.7	1.227	2.152	12.3	20.4
3 2	11 54.45	+ 3 38.5	1.182	2.152	7.3	20.2
3 12	11 46.43	+ 4 44.5	1.161	2.153	2.1	19.8
3 22	11 37.86	+ 5 49.2	1.165	2.154	4.4	20.0
4 1	11 30.11	+ 6 43.1	1.194	2.156	9.6	20.3
4 11	11 24.39	+ 7 19.2	1.246	2.159	14.4	20.6
4 21	11 21.37	+ 7 34.3	1.317	2.163	18.5	20.8

116271 2003 YQ_{35} 3 15.8 295°.12 3°.4/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.29	+ 9 4.3	2.041	2.892	11.8	19.4
2 21	11 59.89	+10 3.8	1.967	2.889	8.6	19.2
3 2	11 53.62	+11 8.5	1.919	2.886	5.3	19.0
3 12	11 46.16	+12 11.7	1.899	2.883	3.4	18.8
3 22	11 38.32	+13 6.6	1.907	2.880	5.2	18.9
4 1	11 31.02	+13 47.6	1.942	2.877	8.6	19.1
4 11	11 25.06	+14 11.2	2.003	2.874	11.8	19.3
4 21	11 20.99	+14 16.5	2.084	2.871	14.7	19.5

282203 2001 VG_{51} 3 15.8 73°.47 4°.0/20.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.77	−12 35.2	2.264	3.034	13.5	20.2
2 21	12 0.73	−12 43.4	2.195	3.055	10.8	20.0
3 2	11 54.00	−12 33.8	2.149	3.075	7.8	19.9
3 12	11 46.24	−12 7.7	2.129	3.096	5.1	19.7
3 22	11 38.23	−11 28.2	2.137	3.117	4.1	19.7
4 1	11 30.79	−10 40.3	2.175	3.137	5.9	19.8
4 11	11 24.64	− 9 49.8	2.239	3.158	8.6	20.0
4 21	11 20.26	− 9 2.0	2.328	3.178	11.3	20.2

401188 2011 WV_{115} 3 15.8 164°.86 1°.4/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.88	+ 3 6.0	1.974	2.805	13.0	22.1
2 21	12 4.00	+ 3 50.1	1.900	2.811	9.5	21.9
3 2	11 56.07	+ 4 44.0	1.851	2.817	5.6	21.6
3 12	11 46.85	+ 5 42.0	1.830	2.822	1.8	21.4
3 22	11 37.25	+ 6 37.7	1.839	2.826	3.6	21.5
4 1	11 28.28	+ 7 24.8	1.877	2.829	7.6	21.8
4 11	11 20.84	+ 7 58.9	1.941	2.831	11.3	22.0
4 21	11 15.48	+ 8 17.6	2.028	2.833	14.4	22.2

319675 2006 TH_{74} 3 15.8 119°.47 2°.2/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.81	+ 7 24.9	2.679	3.517	9.7	21.4
2 21	11 59.04	+ 8 15.1	2.615	3.530	7.0	21.2
3 2	11 52.89	+ 9 9.4	2.577	3.543	4.2	21.1
3 12	11 45.92	+10 3.1	2.569	3.556	2.2	21.0
3 22	11 38.75	+10 51.4	2.591	3.569	3.7	21.1
4 1	11 32.05	+11 30.4	2.643	3.581	6.4	21.3
4 11	11 26.40	+11 57.2	2.721	3.592	9.1	21.5
4 21	11 22.20	+12 10.8	2.823	3.604	11.4	21.6

64273 2001 TM_{207} 3 15.8 351°.33 3°.6/20.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.35	−18 2.7	1.483	2.264	18.9	18.4
2 21	11 56.93	−16 1.2	1.390	2.259	15.3	18.1
3 2	11 52.16	−13 13.3	1.319	2.255	10.8	17.8
3 12	11 45.80	− 9 44.3	1.274	2.251	6.0	17.6
3 22	11 38.91	− 5 48.0	1.258	2.249	3.7	17.4
4 1	11 32.68	− 1 44.7	1.274	2.247	7.7	17.6
4 11	11 28.17	+ 2 4.0	1.318	2.246	12.7	17.9
4 21	11 26.04	+ 5 22.1	1.388	2.246	17.1	18.2

297427 2000 SZ_{89} 3 15.8 221°.77 3°.9/21.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.47	−15 44.6	3.122	3.859	10.9	21.6
2 21	11 58.82	−15 39.8	3.012	3.847	8.9	21.4
3 2	11 52.83	−15 19.5	2.927	3.836	6.8	21.3
3 12	11 45.94	−14 44.3	2.869	3.824	4.7	21.1
3 22	11 38.69	−13 56.2	2.839	3.811	3.9	21.0
4 1	11 31.72	−12 58.7	2.840	3.798	5.0	21.1
4 11	11 25.59	−11 56.5	2.870	3.784	7.2	21.2
4 21	11 20.76	−10 54.4	2.927	3.770	9.4	21.3

301064 2008 UG_{126} 3 15.8 282°.29 5°.2/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.14	−11 31.2	1.449	2.252	18.3	20.3
2 21	12 2.92	−11 46.9	1.361	2.242	14.8	20.0
3 2	11 55.92	−11 37.1	1.292	2.232	10.7	19.8
3 12	11 46.92	−11 1.8	1.247	2.222	6.7	19.5
3 22	11 37.08	−10 4.8	1.227	2.212	5.3	19.4
4 1	11 27.82	− 8 53.6	1.233	2.202	8.5	19.6
4 11	11 20.45	− 7 38.8	1.262	2.192	12.9	19.8
4 21	11 15.83	− 6 30.3	1.313	2.182	17.1	20.0

405980 2006 SA_{156} 3 15.8 65°.81 1°.3/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.98	− 6 55.6	1.499	2.323	16.7	20.4
2 21	12 0.06	− 5 46.3	1.438	2.340	12.6	20.2
3 2	11 53.86	− 4 12.8	1.399	2.358	7.9	20.0
3 12	11 46.25	− 2 22.1	1.386	2.375	3.0	19.7
3 22	11 38.32	− 0 24.5	1.400	2.392	2.8	19.7
4 1	11 31.22	+ 1 28.3	1.442	2.410	7.6	20.1
4 11	11 25.91	+ 3 6.3	1.509	2.428	12.0	20.3
4 21	11 22.92	+ 4 23.5	1.599	2.445	15.7	20.6

523540 2017 SP_{22} 3 15.8 180°.38 1°.8/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.07	− 5 42.4	2.621	3.417	11.2	21.5
2 21	12 0.10	− 5 38.5	2.533	3.418	8.6	21.3
3 2	11 53.63	− 5 22.8	2.469	3.418	5.7	21.1
3 12	11 46.18	− 4 57.3	2.434	3.418	2.7	20.9
3 22	11 38.40	− 4 25.1	2.428	3.418	2.3	20.9
4 1	11 31.01	− 3 50.1	2.452	3.417	5.1	21.0
4 11	11 24.67	− 3 16.7	2.504	3.417	8.1	21.2
4 21	11 19.84	− 2 48.3	2.582	3.416	10.8	21.4

219829 2002 CR_{39} 3 15.8 82°.61 2°.7/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.38	− 6 22.7	1.855	2.657	14.9	20.2
2 21	12 4.41	− 6 37.0	1.789	2.676	11.5	20.0
3 2	11 56.33	− 6 35.5	1.746	2.694	7.6	19.8
3 12	11 46.94	− 6 20.0	1.730	2.713	3.9	19.6
3 22	11 37.24	− 5 54.5	1.742	2.731	3.2	19.6
4 1	11 28.30	− 5 24.1	1.782	2.749	6.6	19.8
4 11	11 21.00	− 4 54.6	1.849	2.766	10.2	20.1
4 21	11 15.90	− 4 30.7	1.940	2.784	13.5	20.3

501006 2013 RT_{31} 3 15.8 212°.16 2°.5/18.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.64	− 7 43.1	2.289	3.078	12.8	22.8
2 21	12 2.28	− 7 37.6	2.192	3.071	10.0	22.6
3 2	11 55.08	− 7 16.9	2.119	3.064	6.8	22.4
3 12	11 46.62	− 6 42.7	2.074	3.056	3.5	22.1
3 22	11 37.68	− 5 58.5	2.058	3.047	2.9	22.1
4 1	11 29.14	− 5 9.3	2.072	3.037	5.9	22.3
4 11	11 21.83	− 4 20.8	2.114	3.028	9.3	22.4
4 21	11 16.32	− 3 37.9	2.180	3.017	12.4	22.6

16740 Kipthorne 3 15.8 294°.00 3°.3/18.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.88	− 8 35.7	1.428	2.247	17.6	18.0
2 21	12 1.28	− 8 23.4	1.335	2.231	13.9	17.7
3 2	11 54.98	− 7 45.4	1.262	2.214	9.5	17.4
3 12	11 46.69	− 6 43.5	1.214	2.197	4.9	17.0
3 22	11 37.53	− 5 23.6	1.190	2.181	3.9	16.9
4 1	11 28.88	− 3 55.3	1.193	2.164	8.3	17.1
4 11	11 22.04	− 2 30.0	1.219	2.148	13.3	17.4
4 21	11 17.91	− 1 17.2	1.266	2.132	17.8	17.6

43992 1997 *NP* 3 15.8 113°.91 2°.0/18.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.61	− 6 25.6	2.231	3.031	12.8	18.6
2 21	12 0.69	− 6 15.0	2.153	3.040	9.8	18.4
3 2	11 54.04	− 5 49.7	2.100	3.049	6.5	18.2
3 12	11 46.31	− 5 12.6	2.074	3.058	3.1	18.0
3 22	11 38.27	− 4 27.5	2.077	3.067	2.5	18.0
4 1	11 30.74	− 3 39.8	2.109	3.076	5.7	18.2
4 11	11 24.48	− 2 54.7	2.168	3.084	9.0	18.4
4 21	11 19.98	− 2 16.7	2.252	3.092	12.0	18.6

457236 2008 LO_9 3 15.8 267°.22 2°.6/13.0 17

2 11	12 4.13	+ 4 24.0	1.908	2.753	12.7	21.7
2 21	12 0.06	+ 5 44.7	1.816	2.735	9.3	21.4
3 2	11 53.92	+ 7 18.3	1.749	2.717	5.5	21.1
3 12	11 46.33	+ 8 57.4	1.710	2.698	2.6	20.9
3 22	11 38.16	+10 33.2	1.699	2.679	4.8	21.0
4 1	11 30.40	+11 56.9	1.717	2.660	8.9	21.2
4 11	11 24.00	+13 2.1	1.761	2.641	12.8	21.4
4 21	11 19.63	+13 45.5	1.825	2.621	16.1	21.6

248614 2006 DY_{141} 3 15.8 121°.20 1°.6/13.9 18

2 11	12 5.92	+ 4 1.6	2.290	3.123	11.3	21.5
2 21	12 0.78	+ 4 54.7	2.226	3.139	8.2	21.3
3 2	11 54.03	+ 5 55.2	2.188	3.154	4.8	21.1
3 12	11 46.30	+ 6 57.9	2.179	3.169	1.8	20.9
3 22	11 38.34	+ 7 57.0	2.200	3.184	3.4	21.1
4 1	11 30.95	+ 8 47.1	2.250	3.198	6.8	21.3
4 11	11 24.82	+ 9 24.6	2.327	3.211	9.9	21.5
4 21	11 20.40	+ 9 47.6	2.427	3.224	12.6	21.7

199199 2006 AP_5 3 15.8 298°.57 7°.1/19.9 18

2 11	12 15.96	−13 31.7	1.868	2.627	16.4	19.4
2 21	12 9.17	−15 2.0	1.766	2.614	13.6	19.2
3 2	11 59.63	−16 17.0	1.687	2.600	10.6	19.0
3 12	11 48.03	−17 13.0	1.635	2.586	7.9	18.8
3 22	11 35.40	−17 47.9	1.609	2.573	7.1	18.7
4 1	11 23.10	−18 2.7	1.613	2.560	9.0	18.8
4 11	11 12.41	−18 2.2	1.642	2.547	12.1	18.9
4 21	11 4.27	−17 53.1	1.695	2.534	15.3	19.1

90096 2002 XO_9 3 15.8 45°.19 2°.6/13.7 18

2 11	12 6.35	+ 5 4.2	1.417	2.275	15.6	19.1
2 21	12 1.90	+ 5 56.7	1.364	2.289	11.3	18.9
3 2	11 55.00	+ 6 59.5	1.333	2.303	6.6	18.6
3 12	11 46.60	+ 8 3.9	1.328	2.318	2.7	18.4
3 22	11 37.90	+ 9 1.2	1.349	2.333	5.0	18.6
4 1	11 30.12	+ 9 43.9	1.396	2.349	9.5	18.9
4 11	11 24.29	+10 7.4	1.466	2.365	13.7	19.2
4 21	11 20.97	+10 10.6	1.556	2.381	17.1	19.5

369969 1995 WR_{11} 3 15.8 83°.98 3°.2/12.6 17

2 11	12 5.94	+ 8 0.8	1.884	2.734	12.7	21.0
2 21	12 1.14	+ 9 0.1	1.823	2.744	9.2	20.8
3 2	11 54.38	+10 5.1	1.787	2.755	5.6	20.6
3 12	11 46.43	+11 8.5	1.779	2.765	3.2	20.5
3 22	11 38.18	+12 3.4	1.799	2.776	5.1	20.6
4 1	11 30.62	+12 44.0	1.847	2.786	8.6	20.8
4 11	11 24.58	+13 6.9	1.920	2.797	12.0	21.1
4 21	11 20.56	+13 11.4	2.013	2.807	14.9	21.3

98364 2000 SE_{364} 3 15.8 118°.42 4°.6/11.7 18

2 11	12 8.87	+ 9 59.1	1.580	2.436	14.4	19.3
2 21	12 3.64	+11 15.3	1.522	2.446	10.5	19.1
3 2	11 56.02	+12 36.7	1.489	2.455	6.6	18.9
3 12	11 46.90	+13 53.6	1.482	2.464	4.6	18.8
3 22	11 37.43	+14 56.9	1.503	2.473	6.8	19.0
4 1	11 28.82	+15 39.7	1.550	2.482	10.6	19.2
4 11	11 22.08	+15 58.9	1.620	2.490	14.3	19.4
4 21	11 17.80	+15 55.2	1.710	2.498	17.4	19.7

217947 2001 TY_{226} 3 15.8 192°.48 3°.4/12.1 16

2 11	12 10.12	+11 35.0	2.465	3.301	10.6	21.5
2 21	12 3.89	+12 19.4	2.386	3.298	7.8	21.3
3 2	11 55.94	+13 5.6	2.334	3.296	5.0	21.1
3 12	11 46.87	+13 48.0	2.312	3.292	3.4	21.0
3 22	11 37.46	+14 21.7	2.320	3.287	4.9	21.1
4 1	11 28.55	+14 42.7	2.357	3.282	7.8	21.3
4 11	11 20.88	+14 48.7	2.421	3.276	10.7	21.5
4 21	11 14.99	+14 39.6	2.508	3.269	13.2	21.6

402531 2006 ET_{55} 3 15.8 30°.54 1°.4/16.9 18

2 11	12 7.41	− 3 12.1	1.255	2.098	18.2	21.2
2 21	12 3.12	− 3 3.6	1.190	2.103	13.8	21.0
3 2	11 55.97	− 2 34.8	1.146	2.109	8.7	20.7
3 12	11 46.94	− 1 50.4	1.125	2.115	3.2	20.4
3 22	11 37.35	− 0 57.9	1.130	2.122	3.3	20.4
4 1	11 28.69	− 0 6.2	1.159	2.130	8.7	20.8
4 11	11 22.21	+ 0 36.1	1.212	2.137	13.7	21.1
4 21	11 18.60	+ 1 3.5	1.284	2.146	17.9	21.3

306932 2001 UM_{89} 3 15.8 162°.99 2°.5/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.28	+ 8 24.9	2.859	3.697	9.2	20.9
2 21	11 58.65	+ 9 27.2	2.787	3.703	6.7	20.8
3 2	11 52.71	+10 33.4	2.743	3.708	4.1	20.6
3 12	11 45.94	+11 38.6	2.728	3.712	2.5	20.5
3 22	11 38.94	+12 38.0	2.744	3.716	3.9	20.6
4 1	11 32.33	+13 27.2	2.790	3.720	6.5	20.8
4 11	11 26.68	+14 3.4	2.863	3.723	9.0	20.9
4 21	11 22.39	+14 25.4	2.958	3.725	11.2	21.1

233514 2007 EY_{210} 3 15.8 349°.64 0°.4/16.1 18

2 11	12 8.88	− 0 48.8	1.254	2.102	17.9	20.7
2 21	12 4.32	− 0 35.8	1.183	2.100	13.5	20.5
3 2	11 56.78	− 0 5.0	1.133	2.099	8.3	20.2
3 12	11 47.20	+ 0 38.5	1.107	2.098	2.5	19.8
3 22	11 36.92	+ 1 26.9	1.105	2.097	3.5	19.9
4 1	11 27.51	+ 2 11.4	1.129	2.097	9.3	20.2
4 11	11 20.31	+ 2 44.1	1.176	2.096	14.5	20.5
4 21	11 16.11	+ 3 0.4	1.242	2.096	18.8	20.7

198976 2005 VS_{15} 3 15.8 82°.67 4°.2/19.3 18

2 11	12 8.35	−10 54.2	1.372	2.180	18.9	20.5
2 21	12 3.57	−10 44.5	1.309	2.195	14.9	20.3
3 2	11 56.12	−10 7.3	1.266	2.211	10.3	20.1
3 12	11 46.96	− 9 5.7	1.247	2.226	5.8	19.9
3 22	11 37.36	− 7 46.4	1.253	2.241	4.5	19.8
4 1	11 28.71	− 6 19.8	1.286	2.256	8.0	20.1
4 11	11 22.15	− 4 56.9	1.343	2.271	12.4	20.4
4 21	11 18.31	− 3 46.1	1.421	2.286	16.3	20.6

153703 2001 UK_{48} 3 15.8 186°.55 0°.5/15.3 16

2 11	12 5.92	− 0 0.1	2.357	3.178	11.5	21.5
2 21	12 0.89	+ 0 49.5	2.273	3.178	8.5	21.3
3 2	11 54.18	+ 1 50.4	2.214	3.177	5.0	21.1
3 12	11 46.39	+ 2 58.0	2.184	3.175	1.4	20.8
3 22	11 38.23	+ 4 6.6	2.184	3.173	2.6	20.9
4 1	11 30.53	+ 5 10.3	2.214	3.170	6.3	21.1
4 11	11 23.99	+ 6 4.1	2.272	3.167	9.7	21.3
4 21	11 19.15	+ 6 44.8	2.354	3.162	12.6	21.5

83579 2001 SD_{231} 3 15.8 283°.66 1°.0/14.9 17

2 11	12 5.02	+ 1 3.1	1.735	2.575	14.1	20.2
2 21	12 0.93	+ 1 52.0	1.640	2.556	10.5	19.9
3 2	11 54.56	+ 2 56.3	1.568	2.535	6.2	19.6
3 12	11 46.57	+ 4 10.0	1.523	2.515	1.7	19.2
3 22	11 37.88	+ 5 25.6	1.506	2.495	3.7	19.3
4 1	11 29.62	+ 6 34.5	1.517	2.475	8.4	19.6
4 11	11 22.87	+ 7 29.4	1.552	2.454	12.8	19.8
4 21	11 18.35	+ 8 6.1	1.608	2.434	16.6	20.0

459331 2012 HR_{23} 3 15.8 326°.90 5°.7/11.3 17

2 11	12 7.52	+13 17.7	1.475	2.340	14.7	20.4
2 21	12 3.02	+14 11.1	1.403	2.329	11.0	20.2
3 2	11 55.87	+15 6.7	1.354	2.319	7.4	19.9
3 12	11 46.92	+15 54.9	1.331	2.309	5.7	19.8
3 22	11 37.38	+16 27.2	1.332	2.299	7.9	19.9
4 1	11 28.59	+16 37.2	1.359	2.290	11.8	20.1
4 11	11 21.73	+16 22.6	1.408	2.282	15.7	20.3
4 21	11 17.52	+15 44.7	1.475	2.275	19.1	20.5

242901 2006 KC_{113} 3 15.8 279°.57 8°.6/ 5.5 17

2 11	12 4.38	+17 1.1	1.546	2.416	13.9	19.9
2 21	12 0.83	+19 47.3	1.473	2.395	10.9	19.6
3 2	11 54.68	+22 39.0	1.425	2.375	8.8	19.4
3 12	11 46.63	+25 20.4	1.405	2.354	9.3	19.4
3 22	11 37.77	+27 36.6	1.411	2.333	12.0	19.5
4 1	11 29.42	+29 16.5	1.442	2.312	15.4	19.7
4 11	11 22.84	+30 16.2	1.492	2.291	18.8	19.8
4 21	11 18.86	+30 37.4	1.558	2.270	21.7	20.0

415826 2001 QK_{245} 3 15.9 158°.52 0°.4/15.5 16

2 11	12 10.62	+ 1 45.2	2.376	3.192	11.6	21.7
2 21	12 4.25	+ 2 0.6	2.298	3.200	8.5	21.5
3 2	11 56.13	+ 2 24.0	2.246	3.208	5.1	21.3
3 12	11 46.93	+ 2 51.7	2.223	3.215	1.4	21.1
3 22	11 37.42	+ 3 19.8	2.231	3.221	2.5	21.2
4 1	11 28.46	+ 3 43.9	2.270	3.226	6.1	21.4
4 11	11 20.78	+ 4 0.8	2.336	3.231	9.4	21.6
4 21	11 14.91	+ 4 8.1	2.427	3.235	12.2	21.8

359374 2010 DD_{18} 3 15.9 244°.82 3°.7/12.3 17

2 11	12 8.43	+ 8 0.7	1.769	2.618	13.4	21.5
2 21	12 3.40	+ 9 10.5	1.682	2.603	9.9	21.2
3 2	11 56.01	+10 29.3	1.620	2.587	6.1	21.0
3 12	11 46.97	+11 49.0	1.585	2.570	3.7	20.8
3 22	11 37.27	+13 0.6	1.578	2.553	5.9	20.9
4 1	11 28.08	+13 56.3	1.599	2.535	10.0	21.1
4 11	11 20.48	+14 31.0	1.644	2.517	13.9	21.3
4 21	11 15.20	+14 43.2	1.709	2.498	17.3	21.5

521199 2015 FH_{413} 3 15.9 328°.93 0°.7/15.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 1.41	+ 0 8.3	2.171	3.004	11.9	21.0
2 21	11 57.71	+ 1 5.7	2.089	3.001	8.8	20.8
3 2	11 52.34	+ 2 15.7	2.032	2.997	5.2	20.6
3 12	11 45.88	+ 3 32.9	2.002	2.994	1.4	20.3
3 22	11 39.06	+ 4 50.8	2.002	2.991	2.9	20.4
4 1	11 32.69	+ 6 2.9	2.031	2.988	6.7	20.6
4 11	11 27.49	+ 7 3.4	2.086	2.986	10.2	20.8
4 21	11 23.98	+ 7 48.9	2.164	2.983	13.2	21.0

164638 1995 FW_{17} 3 15.9 18°.05 1°.6/14.3 17

2 11	12 3.80	+ 3 20.5	1.795	2.641	13.4	20.4
2 21	11 59.72	+ 4 5.4	1.725	2.644	9.8	20.1
3 2	11 53.63	+ 5 0.8	1.679	2.647	5.7	19.9
3 12	11 46.25	+ 6 0.5	1.659	2.651	1.9	19.6
3 22	11 38.50	+ 6 57.4	1.668	2.655	3.8	19.8
4 1	11 31.37	+ 7 45.1	1.704	2.659	7.9	20.0
4 11	11 25.73	+ 8 18.5	1.765	2.664	11.7	20.3
4 21	11 22.14	+ 8 35.3	1.847	2.669	15.0	20.5

63743 2001 QL_{256} 3 15.9 128°.54 2°.3/12.9 18

2 11	12 3.23	+ 6 13.3	2.398	3.239	10.6	19.3
2 21	11 58.83	+ 7 16.3	2.329	3.246	7.7	19.1
3 2	11 52.90	+ 8 25.6	2.286	3.253	4.6	19.0
3 12	11 46.02	+ 9 35.6	2.272	3.259	2.3	18.8
3 22	11 38.88	+10 40.2	2.288	3.266	4.0	18.9
4 1	11 32.21	+11 34.3	2.332	3.272	7.1	19.1
4 11	11 26.67	+12 14.3	2.403	3.278	10.0	19.3
4 21	11 22.72	+12 38.6	2.497	3.284	12.5	19.5

306934 2001 UB_{95} 3 15.9 200°.19 1°.4/14.1 18

2 11	12 5.57	+ 5 26.1	2.933	3.760	9.3	21.8
2 21	12 0.34	+ 5 55.8	2.846	3.756	6.8	21.7
3 2	11 53.74	+ 6 30.4	2.786	3.751	4.0	21.5
3 12	11 46.26	+ 7 6.4	2.756	3.746	1.5	21.3
3 22	11 38.49	+ 7 39.9	2.757	3.740	2.8	21.4
4 1	11 31.08	+ 8 7.3	2.788	3.734	5.7	21.5
4 11	11 24.61	+ 8 26.0	2.847	3.728	8.4	21.7
4 21	11 19.52	+ 8 34.4	2.930	3.720	10.8	21.9

463835 2014 TW_{67} 3 15.9 46°.68 8°.0/10.2 18

2 11	12 13.95	+20 45.1	1.505	2.361	15.0	20.8
2 21	12 7.44	+21 31.3	1.458	2.371	11.7	20.6
3 2	11 58.27	+22 8.9	1.434	2.382	8.9	20.5
3 12	11 47.54	+22 28.7	1.434	2.394	8.0	20.4
3 22	11 36.60	+22 24.1	1.461	2.405	9.7	20.6
4 1	11 26.84	+21 52.9	1.512	2.417	12.7	20.8
4 11	11 19.32	+20 57.3	1.586	2.430	15.8	21.0
4 21	11 14.58	+19 41.7	1.678	2.442	18.6	21.2

500495 2012 TH_{267} 3 15.9 54°.14 3°.7/11.9 17

2 11	12 5.68	+11 17.5	2.090	2.940	11.6	21.1
2 21	12 0.79	+12 3.9	2.029	2.949	8.5	20.9
3 2	11 54.13	+12 52.2	1.994	2.959	5.4	20.7
3 12	11 46.38	+13 36.2	1.987	2.968	3.7	20.6
3 22	11 38.37	+14 10.2	2.008	2.977	5.4	20.7
4 1	11 31.00	+14 30.1	2.056	2.987	8.4	20.9
4 11	11 25.01	+14 33.7	2.130	2.997	11.4	21.1
4 21	11 20.88	+14 21.0	2.225	3.007	14.0	21.3

411236 2010 PP_{75} 3 15.9 181°.07 0°.2/16.1 17 R

2 11	12 7.83	− 1 49.5	2.037	2.856	13.1	22.0
2 21	12 2.54	− 1 12.0	1.955	2.857	9.8	21.8
3 2	11 55.28	− 0 20.7	1.897	2.858	6.0	21.5
3 12	11 46.73	+ 0 39.9	1.867	2.858	1.8	21.3
3 22	11 37.77	+ 1 44.0	1.866	2.857	2.6	21.3
4 1	11 29.34	+ 2 44.9	1.895	2.856	6.7	21.6
4 11	11 22.31	+ 3 36.8	1.950	2.854	10.5	21.8
4 21	11 17.26	+ 4 15.6	2.029	2.851	13.8	22.0

360516 2003 QQ_{11} 3 15.9 240°.28 1°.5/14.4 17

2 11	12 8.20	+ 2 40.7	1.869	2.704	13.4	21.3
2 21	12 3.12	+ 3 31.3	1.776	2.689	9.9	21.0
3 2	11 55.81	+ 4 34.4	1.707	2.674	5.9	20.8
3 12	11 46.93	+ 5 44.1	1.666	2.657	1.9	20.5
3 22	11 37.41	+ 6 53.1	1.654	2.640	3.9	20.6
4 1	11 28.34	+ 7 53.8	1.670	2.623	8.3	20.8
4 11	11 20.76	+ 8 40.1	1.712	2.604	12.4	21.0
4 21	11 15.35	+ 9 8.7	1.776	2.585	16.0	21.2

229444 2005 UF_{54} 3 15.9 187°.04 2°.1/18.2 17

2 11	12 4.73	− 8 0.2	2.062	2.861	13.7	20.8
2 21	12 0.27	− 7 25.0	1.975	2.861	10.6	20.6
3 2	11 53.93	− 6 31.0	1.912	2.861	7.0	20.4
3 12	11 46.35	− 5 21.5	1.876	2.860	3.4	20.2
3 22	11 38.36	− 4 2.1	1.868	2.859	2.7	20.1
4 1	11 30.86	− 2 39.8	1.890	2.857	6.2	20.3
4 11	11 24.68	− 1 22.2	1.938	2.855	9.9	20.6
4 21	11 20.39	− 0 15.2	2.011	2.853	13.2	20.8

386187 2007 VC_{107} 3 15.9 158°.48 0°.6/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.71	+ 1 44.4	2.587	3.411	10.5	21.9
2 21	11 59.83	+ 2 17.8	2.509	3.416	7.7	21.7
3 2	11 53.48	+ 2 59.2	2.457	3.421	4.5	21.5
3 12	11 46.20	+ 3 44.9	2.433	3.425	1.2	21.3
3 22	11 38.65	+ 4 30.3	2.440	3.429	2.5	21.4
4 1	11 31.54	+ 5 11.2	2.477	3.432	5.7	21.6
4 11	11 25.49	+ 5 43.7	2.541	3.435	8.8	21.8
4 21	11 20.95	+ 6 5.5	2.629	3.438	11.4	22.0

93612 2000 UH_{63} 3 15.9 68°.84 2°.1/17.9 18

2 11	12 6.08	− 6 16.1	1.779	2.592	15.0	19.5
2 21	12 1.37	− 6 0.2	1.712	2.606	11.5	19.3
3 2	11 54.60	− 5 26.4	1.667	2.620	7.5	19.0
3 12	11 46.55	− 4 38.2	1.649	2.635	3.4	18.8
3 22	11 38.16	− 3 41.3	1.658	2.649	2.8	18.8
4 1	11 30.46	− 2 42.6	1.695	2.664	6.6	19.1
4 11	11 24.35	− 1 49.0	1.758	2.678	10.5	19.3
4 21	11 20.37	− 1 5.7	1.844	2.692	13.9	19.6

312828 2011 SW_{172} 3 15.9 107°.64 0°.7/15.3 18

2 11	12 11.39	+ 1 6.7	1.750	2.579	14.5	22.1
2 21	12 5.18	+ 1 43.2	1.693	2.602	10.6	21.9
3 2	11 56.80	+ 2 31.4	1.660	2.624	6.3	21.7
3 12	11 47.14	+ 3 25.3	1.654	2.646	1.7	21.4
3 22	11 37.26	+ 4 18.2	1.677	2.667	3.2	21.6
4 1	11 28.24	+ 5 3.7	1.729	2.687	7.6	21.9
4 11	11 20.99	+ 5 36.8	1.807	2.706	11.5	22.2
4 21	11 16.03	+ 5 55.2	1.907	2.725	14.7	22.4

499257 2009 VS_{6} 3 15.9 227°.25 0°.9/16.8 17

2 11	12 6.64	− 3 18.8	2.249	3.059	12.3	22.9
2 21	12 1.61	− 2 52.4	2.152	3.048	9.4	22.7
3 2	11 54.74	− 2 12.3	2.079	3.036	5.9	22.5
3 12	11 46.61	− 1 21.8	2.035	3.024	2.1	22.2
3 22	11 38.00	− 0 25.8	2.020	3.011	2.3	22.2
4 1	11 29.77	+ 0 30.2	2.034	2.998	6.2	22.4
4 11	11 22.74	+ 1 20.5	2.077	2.984	9.8	22.6
4 21	11 17.51	+ 2 0.7	2.143	2.969	13.0	22.8

109956 2001 SS_{47} 3 15.9 223°.67 3°.4/11.8 17

2 11	12 6.55	+12 6.5	2.539	3.380	10.1	19.9
2 21	12 1.29	+12 48.6	2.458	3.373	7.4	19.7
3 2	11 54.41	+13 32.2	2.404	3.366	4.8	19.6
3 12	11 46.49	+14 12.0	2.379	3.358	3.4	19.4
3 22	11 38.24	+14 43.2	2.384	3.350	4.9	19.5
4 1	11 30.42	+15 2.2	2.417	3.342	7.6	19.7
4 11	11 23.74	+15 6.7	2.476	3.333	10.4	19.8
4 21	11 18.69	+14 56.4	2.558	3.324	12.8	20.0

1713 Bancilhon 3 15.9 229°.25 2°.2/13.9 18

2 11	12 10.15	+ 4 45.9	1.726	2.567	14.1	17.3
2 21	12 4.71	+ 5 34.2	1.640	2.556	10.4	17.1
3 2	11 56.82	+ 6 33.3	1.578	2.545	6.2	16.8
3 12	11 47.25	+ 7 36.4	1.543	2.533	2.4	16.5
3 22	11 37.02	+ 8 35.9	1.536	2.520	4.6	16.6
4 1	11 27.35	+ 9 24.0	1.557	2.506	9.1	16.9
4 11	11 19.35	+ 9 55.5	1.603	2.492	13.3	17.1
4 21	11 13.75	+10 8.0	1.670	2.477	16.9	17.3

404229 2013 DM_{7} 3 15.9 24°.25 4°.8/12.2 18

2 11	12 5.38	+ 8 12.7	1.150	2.026	17.2	20.6
2 21	12 1.76	+ 9 29.3	1.098	2.031	12.5	20.4
3 2	11 55.20	+10 55.2	1.066	2.038	7.7	20.1
3 12	11 46.77	+12 18.6	1.059	2.045	4.8	20.0
3 22	11 37.88	+13 27.2	1.075	2.053	7.5	20.2
4 1	11 30.04	+14 11.7	1.116	2.061	12.2	20.4
4 11	11 24.48	+14 28.0	1.176	2.071	16.7	20.7
4 21	11 21.84	+14 16.8	1.255	2.081	20.4	21.0

174197 2002 QN_{36} 3 15.9 165°.46 0°.2/16.2 18

2 11	12 5.02	− 1 16.8	2.402	3.219	11.4	20.9
2 21	12 0.19	− 0 48.3	2.321	3.222	8.5	20.8
3 2	11 53.77	− 0 9.0	2.264	3.225	5.2	20.5
3 12	11 46.32	+ 0 37.6	2.237	3.228	1.6	20.3
3 22	11 38.56	+ 1 26.7	2.239	3.230	2.2	20.3
4 1	11 31.24	+ 2 13.5	2.270	3.231	5.8	20.6
4 11	11 25.07	+ 2 53.5	2.329	3.233	9.0	20.8
4 21	11 20.53	+ 3 23.3	2.412	3.234	11.9	21.0

489236 2006 QQ_{89} 3 15.9 194°.40 1°.7/18.4 17

2 11	12 3.62	− 7 31.8	3.206	3.987	9.7	22.9
2 21	11 58.86	− 7 12.9	3.109	3.984	7.5	22.7
3 2	11 52.85	− 6 42.6	3.037	3.980	5.0	22.5
3 12	11 46.05	− 6 2.9	2.995	3.976	2.6	22.4
3 22	11 38.98	− 5 16.5	2.983	3.972	2.0	22.3
4 1	11 32.19	− 4 27.3	3.002	3.966	4.3	22.5
4 11	11 26.23	− 3 39.1	3.050	3.960	6.9	22.6
4 21	11 21.50	− 2 55.5	3.124	3.954	9.2	22.8

172027 2001 VA_{10} 3 15.9 212°.73 3°.2/20.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.64	−12 23.2	3.067	3.822	10.6	21.0
2 21	11 59.72	−12 20.4	2.962	3.814	8.6	20.9
3 2	11 53.44	−12 3.6	2.881	3.805	6.2	20.7
3 12	11 46.24	−11 33.9	2.828	3.795	4.0	20.5
3 22	11 38.68	−10 53.4	2.805	3.785	3.2	20.4
4 1	11 31.41	−10 5.7	2.813	3.774	4.8	20.5
4 11	11 25.01	− 9 15.1	2.849	3.763	7.2	20.7
4 21	11 19.93	− 8 26.0	2.912	3.751	9.6	20.8

249647 1999 TE_{238} 3 15.9 170°.87 4°.1/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.38	+10 30.5	1.858	2.706	12.9	20.5
2 21	12 3.81	+11 31.8	1.790	2.709	9.5	20.3
3 2	11 56.10	+12 37.1	1.747	2.712	6.0	20.0
3 12	11 47.00	+13 38.6	1.732	2.713	4.1	19.9
3 22	11 37.52	+14 29.0	1.745	2.715	6.0	20.1
4 1	11 28.72	+15 2.5	1.786	2.716	9.5	20.3
4 11	11 21.54	+15 16.3	1.851	2.716	12.9	20.5
4 21	11 16.56	+15 10.2	1.937	2.716	15.9	20.7

234854 2002 RJ_{228} 3 15.9 117°.44 4°.6/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.47	+13 18.6	2.229	3.081	10.9	20.1
2 21	11 59.87	+14 39.3	2.171	3.090	8.1	19.9
3 2	11 53.59	+16 1.2	2.139	3.099	5.5	19.8
3 12	11 46.27	+17 16.9	2.135	3.107	4.6	19.7
3 22	11 38.69	+18 19.8	2.160	3.115	6.3	19.8
4 1	11 31.66	+19 5.0	2.213	3.123	9.0	20.0
4 11	11 25.91	+19 30.3	2.291	3.131	11.7	20.2
4 21	11 21.91	+19 35.8	2.389	3.139	14.0	20.4

296273 2009 DX_{45} 3 15.9 328°.12 2°.8/18.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.14	− 7 13.7	2.123	2.922	13.4	20.3
2 21	12 1.31	− 7 27.6	2.034	2.918	10.5	20.1
3 2	11 54.59	− 7 26.9	1.969	2.914	7.1	19.9
3 12	11 46.59	− 7 12.9	1.930	2.910	3.9	19.7
3 22	11 38.13	− 6 48.7	1.919	2.907	3.2	19.6
4 1	11 30.12	− 6 18.5	1.937	2.904	6.1	19.8
4 11	11 23.40	− 5 47.7	1.982	2.901	9.6	20.0
4 21	11 18.57	− 5 21.0	2.050	2.898	12.7	20.2

110293 Oia 3 15.9 156°.62 1°.2/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.88	− 4 7.5	1.859	2.678	14.2	19.6
2 21	12 1.28	− 3 40.1	1.779	2.679	10.8	19.4
3 2	11 54.62	− 2 56.3	1.723	2.681	6.8	19.1
3 12	11 46.60	− 2 0.1	1.693	2.683	2.5	18.9
3 22	11 38.15	− 0 57.3	1.692	2.684	2.6	18.9
4 1	11 30.28	+ 0 5.0	1.719	2.685	6.8	19.1
4 11	11 23.89	+ 1 0.1	1.772	2.686	10.8	19.4
4 21	11 19.57	+ 1 43.0	1.847	2.687	14.2	19.6

66302 1999 JP_{36} 3 15.9 351°.91 1°.6/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.64	− 5 44.9	2.084	2.896	13.1	18.9
2 21	11 58.71	− 5 19.5	2.000	2.895	10.0	18.7
3 2	11 53.01	− 4 38.1	1.940	2.894	6.5	18.4
3 12	11 46.14	− 3 43.9	1.906	2.893	2.8	18.2
3 22	11 38.88	− 2 42.0	1.900	2.892	2.4	18.2
4 1	11 32.09	− 1 38.6	1.923	2.891	6.0	18.4
4 11	11 26.56	− 0 40.1	1.973	2.891	9.7	18.6
4 21	11 22.82	+ 0 8.6	2.046	2.891	12.9	18.8

458767 2011 SH_{57} 3 15.9 110°.96 1°.6/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.08	+ 3 9.3	1.691	2.530	14.5	22.2
2 21	12 4.35	+ 3 56.4	1.632	2.547	10.6	22.0
3 2	11 56.39	+ 4 54.0	1.597	2.564	6.2	21.7
3 12	11 47.08	+ 5 55.4	1.589	2.580	2.0	21.5
3 22	11 37.48	+ 6 53.1	1.610	2.596	3.9	21.7
4 1	11 28.73	+ 7 40.2	1.658	2.612	8.2	22.0
4 11	11 21.75	+ 8 12.1	1.732	2.626	12.2	22.2
4 21	11 17.09	+ 8 26.9	1.827	2.641	15.4	22.5

287480 2003 AJ_{84} 3 15.9 346°.88 6°.1/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.87	+12 51.4	1.860	2.727	12.0	19.5
2 21	11 56.94	+15 23.7	1.795	2.721	9.0	19.2
3 2	11 52.06	+18 1.7	1.757	2.716	6.5	19.1
3 12	11 45.89	+20 33.4	1.748	2.712	6.4	19.1
3 22	11 39.27	+22 46.9	1.768	2.708	8.7	19.2
4 1	11 33.15	+24 33.4	1.815	2.704	11.8	19.4
4 11	11 28.40	+25 48.7	1.884	2.702	14.8	19.6
4 21	11 25.61	+26 32.8	1.972	2.699	17.3	19.7

366427 2001 VH_{38} 3 15.9 185°.55 4°.1/20.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.89	−14 38.9	2.369	3.124	13.4	21.6
2 21	12 0.98	−14 25.3	2.274	3.124	10.9	21.4
3 2	11 54.32	−13 51.7	2.203	3.123	8.0	21.3
3 12	11 46.52	−12 59.2	2.158	3.122	5.3	21.1
3 22	11 38.31	−11 51.2	2.142	3.121	4.2	21.0
4 1	11 30.52	−10 33.5	2.155	3.118	5.9	21.1
4 11	11 23.93	− 9 12.8	2.197	3.115	8.8	21.3
4 21	11 19.08	− 7 55.7	2.263	3.111	11.7	21.5

82639 2001 PO_1 3 15.9 236°.67 2°.2/13.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 8.30	+ 5 48.7	1.974	2.814	12.6	20.3
2 21	12 3.05	+ 6 30.3	1.887	2.803	9.3	20.0
3 2	11 55.70	+ 7 19.8	1.825	2.792	5.5	19.8
3 12	11 46.93	+ 8 11.6	1.791	2.780	2.3	19.5
3 22	11 37.64	+ 8 59.2	1.786	2.768	4.2	19.7
4 1	11 28.84	+ 9 36.5	1.809	2.756	8.2	19.9
4 11	11 21.47	+ 9 59.4	1.857	2.743	11.9	20.1
4 21	11 16.17	+10 6.0	1.928	2.730	15.2	20.2

405208 2003 ND_{10} 3 15.9 156°.48 2°.5/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.50	− 8 24.5	2.036	2.827	14.1	22.5
2 21	12 3.03	− 8 2.5	1.955	2.836	11.0	22.3
3 2	11 55.59	− 7 22.1	1.898	2.844	7.3	22.1
3 12	11 46.87	− 6 26.3	1.868	2.851	3.7	21.9
3 22	11 37.77	− 5 20.1	1.867	2.857	2.9	21.8
4 1	11 29.25	− 4 10.1	1.896	2.862	6.2	22.1
4 11	11 22.17	− 3 3.4	1.952	2.867	9.9	22.3
4 21	11 17.09	− 2 5.6	2.032	2.871	13.1	22.5

117822 2005 JO_5 3 15.9 207°.82 8°.3/28.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.09	−33 26.3	3.226	3.819	12.9	19.9
2 21	12 1.00	−34 6.9	3.120	3.813	11.7	19.8
3 2	11 54.31	−34 27.0	3.033	3.806	10.5	19.7
3 12	11 46.52	−34 24.6	2.967	3.800	9.3	19.6
3 22	11 38.28	−33 59.0	2.925	3.793	8.4	19.5
4 1	11 30.31	−33 12.0	2.909	3.785	8.3	19.5
4 11	11 23.33	−32 7.7	2.918	3.777	8.9	19.5
4 21	11 17.86	−30 51.9	2.952	3.768	10.1	19.6

89260 2001 UT_{213} 3 15.9 281°.93 9°.6/ 5.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.99	+24 54.8	1.729	2.584	13.4	19.0
2 21	12 3.20	+26 39.5	1.669	2.573	11.1	18.9
3 2	11 55.93	+28 16.0	1.634	2.562	9.7	18.7
3 12	11 47.01	+29 32.9	1.623	2.551	10.0	18.7
3 22	11 37.56	+30 21.4	1.637	2.540	11.9	18.8
4 1	11 28.85	+30 36.7	1.675	2.529	14.5	18.9
4 11	11 21.95	+30 19.1	1.732	2.518	17.1	19.1
4 21	11 17.55	+29 32.6	1.806	2.507	19.5	19.3

121932 2000 DW_{117} 3 15.9 131°.77 0°.3/15.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.40	− 0 10.5	1.565	2.398	15.7	20.5
2 21	12 4.85	+ 0 25.2	1.497	2.408	11.6	20.3
3 2	11 56.84	+ 1 15.9	1.453	2.418	7.0	20.0
3 12	11 47.25	+ 2 15.6	1.436	2.427	1.9	19.7
3 22	11 37.24	+ 3 16.7	1.445	2.436	3.3	19.9
4 1	11 28.06	+ 4 11.2	1.483	2.444	8.2	20.2
4 11	11 20.76	+ 4 52.7	1.545	2.452	12.6	20.4
4 21	11 15.98	+ 5 17.8	1.629	2.459	16.3	20.7

337467 2001 RQ_{140} 3 15.9 144°.94 0°.6/15.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.87	+ 2 37.6	2.404	3.229	11.1	21.1
2 21	12 1.53	+ 2 54.1	2.326	3.234	8.2	21.0
3 2	11 54.57	+ 3 17.9	2.274	3.238	4.9	20.7
3 12	11 46.57	+ 3 45.4	2.250	3.242	1.3	20.5
3 22	11 38.28	+ 4 12.6	2.256	3.245	2.6	20.6
4 1	11 30.48	+ 4 35.3	2.292	3.249	6.1	20.8
4 11	11 23.86	+ 4 50.3	2.356	3.252	9.3	21.0
4 21	11 18.92	+ 4 55.5	2.443	3.256	12.0	21.2

74638 1999 RV_{57} 3 15.9 213°.05 1°.4/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.59	+ 2 51.2	1.994	2.826	12.8	21.0
2 21	12 3.23	+ 3 36.5	1.907	2.819	9.5	20.8
3 2	11 55.80	+ 4 32.5	1.845	2.811	5.6	20.5
3 12	11 46.97	+ 5 33.7	1.811	2.802	1.8	20.2
3 22	11 37.64	+ 6 33.7	1.807	2.793	3.6	20.4
4 1	11 28.80	+ 7 25.9	1.831	2.783	7.7	20.6
4 11	11 21.38	+ 8 5.0	1.882	2.773	11.5	20.8
4 21	11 16.02	+ 8 28.3	1.955	2.762	14.8	21.0

137017 1998 SW_{139} 3 15.9 110°.81 4°.7/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.72	−14 45.0	1.835	2.608	16.1	19.4
2 21	12 1.20	−14 27.8	1.758	2.619	13.0	19.2
3 2	11 54.58	−13 45.4	1.703	2.629	9.5	19.0
3 12	11 46.61	−12 39.6	1.672	2.640	6.2	18.8
3 22	11 38.26	−11 15.6	1.669	2.650	4.7	18.7
4 1	11 30.55	− 9 41.2	1.694	2.660	6.8	18.9
4 11	11 24.39	− 8 6.0	1.745	2.670	10.2	19.1
4 21	11 20.37	− 6 38.3	1.820	2.679	13.6	19.3

121352 Taylorhale 3 15.9 59°.73 0°.3/16.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.57	− 2 5.7	1.841	2.670	13.9	20.1
2 21	12 0.28	− 1 29.4	1.769	2.676	10.4	19.8
3 2	11 54.00	− 0 38.3	1.720	2.683	6.3	19.6
3 12	11 46.45	+ 0 22.8	1.698	2.689	1.9	19.3
3 22	11 38.53	+ 1 27.3	1.705	2.696	2.6	19.4
4 1	11 31.23	+ 2 28.4	1.739	2.703	6.9	19.7
4 11	11 25.40	+ 3 19.6	1.799	2.710	10.8	19.9
4 21	11 21.59	+ 3 56.9	1.881	2.717	14.2	20.1

414865 2010 VA_{115} 3 15.9 109°.04 0°.1/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 9.77	− 0 35.5	1.965	2.786	13.4	21.6
2 21	12 3.86	− 0 10.5	1.902	2.806	10.0	21.4
3 2	11 56.01	+ 0 26.3	1.864	2.825	6.0	21.2
3 12	11 46.99	+ 1 10.2	1.853	2.844	1.7	20.9
3 22	11 37.73	+ 1 55.8	1.872	2.863	2.6	21.0
4 1	11 29.19	+ 2 37.5	1.920	2.881	6.7	21.3
4 11	11 22.19	+ 3 10.4	1.994	2.898	10.3	21.6
4 21	11 17.25	+ 3 31.7	2.092	2.915	13.4	21.8

123175 2000 TD_{63} 3 15.9 188°.98 6°.6/22.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.15	−19 35.4	2.262	2.987	14.8	20.6
2 21	12 2.84	−20 7.2	2.168	2.986	12.5	20.4
3 2	11 55.56	−20 17.8	2.096	2.985	10.0	20.2
3 12	11 46.92	−20 5.8	2.048	2.984	7.7	20.1
3 22	11 37.75	−19 32.3	2.026	2.982	6.6	20.0
4 1	11 29.01	−18 41.3	2.033	2.980	7.5	20.1
4 11	11 21.58	−17 39.2	2.066	2.977	9.7	20.2
4 21	11 16.07	−16 33.3	2.124	2.974	12.3	20.3

16788 Alyssarose 3 15.9 43°.79 1°.0/14.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.70	+ 2 26.4	2.024	2.863	12.4	17.4
2 21	11 59.43	+ 3 5.7	1.958	2.873	9.1	17.2
3 2	11 53.40	+ 3 54.5	1.917	2.884	5.3	16.9
3 12	11 46.27	+ 4 47.6	1.903	2.895	1.5	16.7
3 22	11 38.87	+ 5 39.1	1.918	2.906	3.1	16.8
4 1	11 32.05	+ 6 23.4	1.961	2.917	6.9	17.1
4 11	11 26.57	+ 6 56.1	2.029	2.929	10.4	17.3
4 21	11 22.91	+ 7 14.8	2.120	2.941	13.4	17.5

39570 1992 SV_{11} 3 15.9 230°.98 0°.7/15.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.17	+ 1 58.7	1.782	2.614	14.1	19.3
2 21	12 4.65	+ 2 21.4	1.695	2.606	10.5	19.1
3 2	11 56.78	+ 2 55.4	1.632	2.597	6.3	18.8
3 12	11 47.29	+ 3 35.9	1.596	2.587	1.7	18.5
3 22	11 37.20	+ 4 16.9	1.588	2.577	3.3	18.6
4 1	11 27.66	+ 4 52.0	1.609	2.567	8.0	18.8
4 11	11 19.74	+ 5 16.1	1.655	2.556	12.2	19.1
4 21	11 14.14	+ 5 26.0	1.723	2.545	15.8	19.3

216434 2009 DZ_{46} 3 15.9 302°.19 1°.2/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.93	− 2 50.5	2.183	2.998	12.5	20.0
2 21	12 1.11	− 2 49.2	2.094	2.992	9.5	19.8
3 2	11 54.47	− 2 36.1	2.029	2.986	6.0	19.6
3 12	11 46.61	− 2 13.9	1.991	2.980	2.4	19.3
3 22	11 38.31	− 1 46.1	1.982	2.974	2.3	19.3
4 1	11 30.44	− 1 17.3	2.002	2.968	6.0	19.5
4 11	11 23.83	− 0 52.1	2.049	2.963	9.6	19.7
4 21	11 19.02	− 0 34.3	2.120	2.957	12.7	19.9

406448 2007 TD_{383} 3 15.9 73°.46 3°.3/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.61	+ 7 58.1	1.479	2.333	15.3	21.0
2 21	12 5.07	+ 8 37.5	1.421	2.343	11.2	20.8
3 2	11 56.99	+ 9 23.1	1.385	2.354	6.7	20.6
3 12	11 47.32	+10 7.1	1.376	2.364	3.4	20.4
3 22	11 37.29	+10 41.7	1.394	2.375	5.6	20.5
4 1	11 28.22	+11 1.0	1.438	2.385	9.8	20.8
4 11	11 21.16	+11 1.9	1.505	2.396	13.9	21.1
4 21	11 16.71	+10 44.4	1.593	2.406	17.3	21.3

503110 2015 FJ_{319} 3 15.9 149°.80 4°.1/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.12	+14 16.8	2.548	3.394	9.9	21.6
2 21	12 0.20	+15 16.0	2.484	3.399	7.4	21.5
3 2	11 53.76	+16 15.2	2.446	3.404	5.0	21.3
3 12	11 46.38	+17 8.5	2.438	3.409	4.2	21.3
3 22	11 38.75	+17 50.9	2.459	3.414	5.6	21.4
4 1	11 31.61	+18 18.5	2.508	3.418	8.1	21.5
4 11	11 25.61	+18 29.6	2.582	3.422	10.5	21.7
4 21	11 21.19	+18 24.4	2.678	3.426	12.7	21.9

125703 2001 XY_{96} 3 15.9 210°.77 1°.4/17.5 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.50	− 5 6.6	2.441	3.239	11.9	20.9
2 21	12 2.13	− 4 48.5	2.344	3.231	9.1	20.7
3 2	11 55.03	− 4 17.0	2.271	3.222	5.9	20.5
3 12	11 46.78	− 3 34.9	2.227	3.213	2.5	20.2
3 22	11 38.08	− 2 45.8	2.212	3.203	2.2	20.2
4 1	11 29.75	− 1 54.9	2.228	3.193	5.6	20.4
4 11	11 22.56	− 1 7.3	2.272	3.181	9.0	20.6
4 21	11 17.04	− 0 27.3	2.341	3.169	12.0	20.8

508507 2016 QO_{28} 3 15.9 279°.25 4°.3/20.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.63	−12 44.4	2.460	3.224	12.7	20.6
2 21	12 0.86	−13 6.2	2.354	3.209	10.4	20.5
3 2	11 54.34	−13 12.2	2.271	3.194	7.7	20.3
3 12	11 46.60	−13 2.5	2.215	3.178	5.2	20.1
3 22	11 38.33	−12 38.7	2.186	3.163	4.3	20.0
4 1	11 30.35	−12 4.1	2.187	3.147	6.0	20.1
4 11	11 23.45	−11 24.0	2.214	3.132	8.8	20.2
4 21	11 18.21	−10 43.5	2.267	3.116	11.6	20.4

337843 2001 VE_{81} 3 15.9 128°.14 5°.1/23.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 3.89	−20 25.8	2.825	3.536	12.4	20.6
2 21	11 59.24	−20 22.4	2.740	3.549	10.4	20.5
3 2	11 53.18	−19 59.8	2.677	3.562	8.3	20.4
3 12	11 46.22	−19 18.4	2.639	3.575	6.2	20.3
3 22	11 39.01	−18 20.5	2.629	3.587	5.2	20.2
4 1	11 32.21	−17 10.4	2.649	3.598	5.8	20.3
4 11	11 26.45	−15 53.8	2.697	3.610	7.6	20.4
4 21	11 22.14	−14 36.5	2.771	3.620	9.7	20.5

280216 2002 TQ_{302} 3 15.9 169°.18 1°.4/14.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.38	+ 3 2.3	2.479	3.311	10.6	20.9
2 21	11 58.98	+ 4 4.6	2.401	3.314	7.7	20.8
3 2	11 53.07	+ 5 15.7	2.350	3.316	4.5	20.6
3 12	11 46.20	+ 6 30.3	2.328	3.318	1.6	20.3
3 22	11 39.04	+ 7 42.8	2.336	3.320	3.2	20.5
4 1	11 32.30	+ 8 47.3	2.373	3.322	6.4	20.7
4 11	11 26.64	+ 9 39.7	2.438	3.323	9.5	20.9
4 21	11 22.52	+10 17.5	2.527	3.323	12.1	21.1

404418 2013 GA_{77} 3 15.9 40°.50 5°.4/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.52	+11 9.1	1.182	2.053	17.1	19.9
2 21	12 4.66	+12 4.5	1.137	2.068	12.6	19.7
3 2	11 56.87	+13 3.1	1.114	2.082	8.0	19.5
3 12	11 47.30	+13 54.0	1.115	2.098	5.4	19.4
3 22	11 37.45	+14 27.6	1.140	2.114	7.7	19.6
4 1	11 28.83	+14 38.0	1.189	2.131	12.0	19.8
4 11	11 22.61	+14 23.7	1.260	2.149	16.2	20.1
4 21	11 19.34	+13 46.9	1.348	2.166	19.7	20.4

458913 2011 UO_{249} 3 15.9 76°.51 2°.0/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.27	− 5 59.9	1.480	2.304	16.9	21.9
2 21	12 2.66	− 5 34.4	1.416	2.316	12.9	21.6
3 2	11 55.60	− 4 47.5	1.372	2.329	8.3	21.4
3 12	11 46.96	− 3 43.7	1.354	2.341	3.5	21.1
3 22	11 37.92	− 2 30.6	1.362	2.354	3.0	21.1
4 1	11 29.70	− 1 17.2	1.397	2.366	7.6	21.4
4 11	11 23.38	− 0 12.4	1.457	2.379	12.1	21.7
4 21	11 19.56	+ 0 38.0	1.538	2.391	15.9	22.0

345534 2006 QQ_{27} 3 15.9 186°.23 1°.9/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.98	− 5 47.6	2.525	3.321	11.6	21.0
2 21	12 0.91	− 5 46.5	2.436	3.321	8.9	20.8
3 2	11 54.26	− 5 33.2	2.372	3.320	5.9	20.6
3 12	11 46.56	− 5 9.8	2.335	3.319	2.8	20.4
3 22	11 38.51	− 4 39.1	2.329	3.319	2.4	20.4
4 1	11 30.86	− 4 5.4	2.352	3.317	5.3	20.6
4 11	11 24.30	− 3 33.0	2.403	3.316	8.4	20.8
4 21	11 19.33	− 3 5.7	2.479	3.315	11.2	21.0

83698 2001 TM_{72} 3 15.9 178°.10 0°.5/15.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.93	+ 1 11.7	2.469	3.295	10.9	20.1
2 21	11 59.40	+ 1 48.2	2.388	3.296	8.0	19.9
3 2	11 53.34	+ 2 33.9	2.332	3.296	4.7	19.7
3 12	11 46.29	+ 3 24.6	2.305	3.296	1.3	19.5
3 22	11 38.94	+ 4 15.6	2.307	3.296	2.5	19.6
4 1	11 32.00	+ 5 2.1	2.339	3.296	5.9	19.8
4 11	11 26.16	+ 5 39.8	2.399	3.296	9.1	20.0
4 21	11 21.87	+ 6 6.2	2.482	3.296	11.8	20.2

144053 2004 BZ_{30} 3 15.9 311°.46 1°.8/14.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.94	+ 4 30.2	1.948	2.793	12.5	19.6
2 21	11 59.89	+ 5 10.4	1.860	2.779	9.2	19.4
3 2	11 53.86	+ 6 0.0	1.796	2.764	5.5	19.1
3 12	11 46.49	+ 6 53.4	1.759	2.750	2.0	18.9
3 22	11 38.60	+ 7 44.3	1.751	2.736	3.9	19.0
4 1	11 31.16	+ 8 26.5	1.770	2.722	7.9	19.2
4 11	11 25.06	+ 8 55.2	1.814	2.709	11.7	19.4
4 21	11 20.92	+ 9 7.8	1.880	2.696	15.0	19.6

29112 1981 EZ_{33} 3 15.9 106°.39 1°.7/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.28	− 6 16.1	2.484	3.282	11.7	19.9
2 21	11 59.60	− 5 58.0	2.408	3.294	8.9	19.7
3 2	11 53.42	− 5 26.6	2.357	3.306	5.8	19.5
3 12	11 46.31	− 4 44.8	2.333	3.318	2.7	19.3
3 22	11 38.94	− 3 56.3	2.339	3.330	2.2	19.3
4 1	11 32.03	− 3 5.9	2.375	3.341	5.2	19.5
4 11	11 26.24	− 2 18.7	2.438	3.353	8.2	19.7
4 21	11 22.00	− 1 38.4	2.527	3.364	10.9	19.9

60879 2000 HE_{90} 3 15.9 218°.09 1°.6/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.67	+ 4 3.9	2.054	2.889	12.4	19.9
2 21	12 2.51	+ 4 43.9	1.970	2.883	9.1	19.7
3 2	11 55.37	+ 5 32.8	1.910	2.876	5.4	19.4
3 12	11 46.91	+ 6 25.3	1.878	2.869	1.9	19.2
3 22	11 37.99	+ 7 15.5	1.876	2.861	3.6	19.3
4 1	11 29.56	+ 7 57.5	1.902	2.853	7.5	19.5
4 11	11 22.51	+ 8 26.8	1.954	2.845	11.2	19.7
4 21	11 17.41	+ 8 41.1	2.029	2.836	14.4	19.9

309424 2007 TW_{385} 3 15.9 223°.45 4°.4/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 8.28	+ 9 55.0	1.746	2.599	13.4	20.9
2 21	12 3.28	+11 11.7	1.670	2.592	9.9	20.6
3 2	11 55.98	+12 34.9	1.619	2.584	6.3	20.4
3 12	11 47.10	+13 55.9	1.594	2.576	4.4	20.3
3 22	11 37.69	+15 5.6	1.598	2.567	6.6	20.4
4 1	11 28.88	+15 56.5	1.629	2.558	10.3	20.6
4 11	11 21.70	+16 24.7	1.683	2.548	14.0	20.8
4 21	11 16.84	+16 29.7	1.758	2.538	17.2	21.0

435947 2009 CE_{58} 3 15.9 137°.38 0°.1/15.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.46	− 1 58.9	2.366	3.186	11.5	21.7
2 21	11 58.38	− 1 8.2	2.285	3.189	8.5	21.5
3 2	11 52.76	− 0 5.0	2.231	3.192	5.1	21.3
3 12	11 46.14	+ 1 6.3	2.204	3.195	1.5	21.0
3 22	11 39.22	+ 2 20.1	2.207	3.198	2.3	21.1
4 1	11 32.74	+ 3 30.3	2.240	3.201	5.9	21.3
4 11	11 27.37	+ 4 31.7	2.300	3.204	9.2	21.5
4 21	11 23.57	+ 5 20.5	2.384	3.206	12.0	21.7

408340 2013 GO_{79} 3 15.9 307°.94 0°.9/16.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.92	− 4 26.6	1.427	2.263	16.7	20.7
2 21	12 0.50	− 3 42.1	1.344	2.254	12.8	20.5
3 2	11 54.51	− 2 34.2	1.282	2.245	8.0	20.2
3 12	11 46.73	− 1 8.0	1.245	2.236	2.8	19.8
3 22	11 38.26	+ 0 27.5	1.235	2.227	3.1	19.8
4 1	11 30.40	+ 2 1.2	1.250	2.219	8.5	20.1
4 11	11 24.35	+ 3 22.8	1.290	2.211	13.4	20.4
4 21	11 20.86	+ 4 25.0	1.350	2.203	17.7	20.6

369798 2012 HX_{26} 3 15.9 32°.44 0°.1/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.51	− 1 20.6	1.565	2.405	15.3	20.5
2 21	12 0.56	− 0 36.1	1.496	2.409	11.4	20.3
3 2	11 54.33	+ 0 25.3	1.449	2.414	6.9	20.0
3 12	11 46.63	+ 1 37.5	1.428	2.419	1.9	19.7
3 22	11 38.48	+ 2 52.4	1.434	2.425	3.1	19.8
4 1	11 31.04	+ 4 1.2	1.466	2.431	8.0	20.1
4 11	11 25.30	+ 4 56.7	1.524	2.437	12.3	20.4
4 21	11 21.87	+ 5 34.6	1.602	2.443	16.0	20.6

500450 2012 TT_{198} 3 15.9 73°.56 0°.3/15.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.50	+ 1 20.0	2.223	3.049	11.9	21.4
2 21	12 1.32	+ 1 37.9	2.158	3.065	8.8	21.2
3 2	11 54.47	+ 2 4.4	2.118	3.082	5.2	21.0
3 12	11 46.62	+ 2 35.8	2.107	3.098	1.4	20.8
3 22	11 38.54	+ 3 7.4	2.124	3.115	2.5	20.9
4 1	11 31.05	+ 3 35.0	2.171	3.131	6.1	21.1
4 11	11 24.85	+ 3 54.9	2.245	3.147	9.4	21.4
4 21	11 20.41	+ 4 4.7	2.342	3.164	12.2	21.6

392556 2011 SP_{58} 3 15.9 354°.88 0°.7/16.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.91	− 1 17.4	2.262	3.080	12.0	21.2
2 21	12 1.01	− 1 12.2	2.178	3.079	9.0	21.0
3 2	11 54.38	− 0 56.6	2.120	3.079	5.6	20.8
3 12	11 46.62	− 0 33.6	2.089	3.079	1.9	20.6
3 22	11 38.50	− 0 6.9	2.087	3.079	2.2	20.6
4 1	11 30.83	+ 0 19.1	2.114	3.078	5.9	20.8
4 11	11 24.39	+ 0 40.2	2.169	3.078	9.3	21.0
4 21	11 19.69	+ 0 53.4	2.247	3.078	12.3	21.2

37390 2001 WL_{49} 3 15.9 130°.22 2°.0/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.71	− 5 27.8	2.224	3.018	13.0	18.4
2 21	12 4.48	− 5 33.2	2.148	3.032	10.0	18.2
3 2	11 56.41	− 5 25.4	2.097	3.046	6.5	18.0
3 12	11 47.19	− 5 6.6	2.074	3.059	3.1	17.8
3 22	11 37.65	− 4 40.2	2.081	3.071	2.6	17.8
4 1	11 28.69	− 4 10.5	2.118	3.083	5.8	18.0
4 11	11 21.12	− 3 42.4	2.183	3.094	9.2	18.3
4 21	11 15.45	− 3 19.8	2.272	3.105	12.2	18.5

33709 1999 LK_{10} 3 15.9 80°.49 3°.7/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.94	+ 7 25.4	1.767	2.621	13.2	17.9
2 21	12 0.55	+ 8 59.4	1.714	2.637	9.5	17.7
3 2	11 54.16	+10 40.7	1.686	2.653	5.8	17.5
3 12	11 46.55	+12 19.9	1.685	2.669	3.7	17.4
3 22	11 38.66	+13 48.0	1.713	2.685	5.8	17.6
4 1	11 31.50	+14 57.5	1.768	2.701	9.4	17.8
4 11	11 25.91	+15 44.5	1.847	2.716	12.8	18.1
4 21	11 22.39	+16 8.4	1.947	2.732	15.6	18.3

473489 2015 XA_{90} 3 15.9 12°.07 5°.2/19.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.89	−10 42.0	1.041	1.879	21.5	20.4
2 21	11 59.57	−10 53.7	0.979	1.881	17.1	20.1
3 2	11 54.15	−10 32.9	0.935	1.886	12.1	19.9
3 12	11 46.65	− 9 41.3	0.911	1.891	7.2	19.6
3 22	11 38.47	− 8 25.8	0.910	1.898	5.4	19.5
4 1	11 31.25	− 6 58.5	0.931	1.907	9.2	19.8
4 11	11 26.38	− 5 33.5	0.973	1.917	14.2	20.1
4 21	11 24.61	− 4 21.8	1.035	1.928	18.8	20.4

283462 2001 PT_{61} 3 15.9 131°.51 1°.6/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 12.72	− 4 18.7	1.803	2.611	15.0	21.7
2 21	12 6.29	− 4 7.7	1.734	2.627	11.4	21.5
3 2	11 57.62	− 3 40.9	1.688	2.643	7.2	21.3
3 12	11 47.55	− 3 1.8	1.670	2.658	2.9	21.0
3 22	11 37.12	− 2 15.8	1.680	2.672	2.7	21.0
4 1	11 27.47	− 1 29.1	1.720	2.685	6.9	21.3
4 11	11 19.56	− 0 48.2	1.786	2.697	10.9	21.6
4 21	11 13.97	− 0 17.3	1.875	2.709	14.3	21.8

55875 Hirohatagaoka 3 15.9 127°.11 1°.4/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.38	+ 4 2.5	2.122	2.952	12.2	19.9
2 21	12 3.51	+ 4 37.7	2.057	2.968	8.9	19.7
3 2	11 55.82	+ 5 20.3	2.017	2.982	5.2	19.5
3 12	11 47.01	+ 6 5.4	2.005	2.996	1.7	19.3
3 22	11 37.95	+ 6 47.4	2.024	3.010	3.3	19.5
4 1	11 29.54	+ 7 21.5	2.071	3.023	7.0	19.7
4 11	11 22.55	+ 7 44.0	2.146	3.035	10.4	19.9
4 21	11 17.48	+ 7 53.2	2.243	3.047	13.3	20.1

261591 2005 XW_{27} 3 15.9 339°.36 18°.7/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.40	−33 40.3	1.154	1.853	27.6	20.2
2 21	12 5.20	−35 51.8	1.084	1.850	25.5	20.0
3 2	11 58.11	−37 21.8	1.025	1.848	23.2	19.8
3 12	11 47.94	−37 58.6	0.980	1.845	20.9	19.6
3 22	11 36.31	−37 34.5	0.950	1.843	19.2	19.5
4 1	11 25.40	−36 10.2	0.938	1.842	18.7	19.4
4 11	11 17.32	−33 58.1	0.944	1.840	19.5	19.5
4 21	11 13.29	−31 17.3	0.966	1.840	21.5	19.6

160137 2001 BU_{41} 3 15.9 127°.38 8°.1/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 14.67	−24 17.1	2.252	2.933	16.0	20.0
2 21	12 7.62	−25 8.3	2.176	2.955	13.8	19.8
3 2	11 58.42	−25 35.4	2.120	2.975	11.4	19.7
3 12	11 47.80	−25 36.1	2.088	2.994	9.3	19.6
3 22	11 36.75	−25 11.0	2.083	3.013	8.2	19.6
4 1	11 26.32	−24 23.8	2.106	3.030	8.6	19.6
4 11	11 17.46	−23 21.5	2.155	3.047	10.2	19.7
4 21	11 10.80	−22 12.3	2.229	3.063	12.3	19.9

209471 2004 GF_{58} 3 15.9 59°.81 3°.1/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.44	+ 9 23.6	2.055	2.903	11.9	20.2
2 21	12 1.42	+10 3.8	1.996	2.915	8.7	20.0
3 2	11 54.60	+10 47.3	1.961	2.927	5.3	19.8
3 12	11 46.68	+11 28.1	1.954	2.939	3.1	19.7
3 22	11 38.53	+12 0.9	1.976	2.952	4.8	19.8
4 1	11 31.02	+12 21.1	2.026	2.965	8.0	20.1
4 11	11 24.93	+12 26.5	2.101	2.977	11.1	20.3
4 21	11 20.72	+12 16.6	2.198	2.990	13.8	20.5

327829 2006 WH_{48} 3 15.9 46°.32 4°.6/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.87	+10 57.7	1.523	2.383	14.6	20.6
2 21	12 3.79	+11 47.8	1.466	2.390	10.8	20.4
3 2	11 56.25	+12 41.2	1.432	2.398	6.8	20.2
3 12	11 47.18	+13 29.1	1.424	2.407	4.6	20.1
3 22	11 37.77	+14 3.9	1.443	2.416	6.6	20.2
4 1	11 29.24	+14 19.9	1.487	2.424	10.5	20.4
4 11	11 22.64	+14 15.0	1.554	2.434	14.2	20.7
4 21	11 18.55	+13 50.0	1.641	2.443	17.4	20.9

200744 2001 VA_{112} 3 15.9 165°.73 1°.4/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.43	− 4 41.8	1.734	2.549	15.2	21.2
2 21	12 4.08	− 4 18.0	1.656	2.553	11.6	20.9
3 2	11 56.44	− 3 36.4	1.600	2.557	7.4	20.7
3 12	11 47.27	− 2 40.9	1.571	2.560	2.9	20.4
3 22	11 37.61	− 1 37.6	1.571	2.562	2.8	20.4
4 1	11 28.61	− 0 34.1	1.598	2.564	7.2	20.7
4 11	11 21.28	+ 0 22.3	1.652	2.566	11.4	20.9
4 21	11 16.26	+ 1 6.2	1.727	2.567	15.1	21.2

7623 Stamitz 3 15.9 345°.84 1°.3/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.18	+ 3 7.6	2.002	2.844	12.4	17.5
2 21	11 59.22	+ 3 44.3	1.923	2.839	9.1	17.3
3 2	11 53.41	+ 4 30.6	1.868	2.835	5.4	17.1
3 12	11 46.39	+ 5 21.4	1.840	2.832	1.7	16.8
3 22	11 38.98	+ 6 10.8	1.841	2.828	3.3	16.9
4 1	11 32.06	+ 6 52.9	1.869	2.826	7.2	17.1
4 11	11 26.45	+ 7 23.1	1.923	2.823	10.9	17.4
4 21	11 22.70	+ 7 38.9	1.999	2.821	14.0	17.6

146542 2001 SD_{266} 3 15.9 227°.04 0°.8/15.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.42	+ 1 39.2	2.012	2.842	12.8	20.7
2 21	12 2.39	+ 2 13.3	1.924	2.834	9.5	20.5
3 2	11 55.36	+ 2 58.4	1.862	2.826	5.7	20.3
3 12	11 46.96	+ 3 49.7	1.827	2.818	1.6	20.0
3 22	11 38.08	+ 4 41.5	1.820	2.810	3.1	20.1
4 1	11 29.67	+ 5 27.5	1.843	2.800	7.2	20.3
4 11	11 22.65	+ 6 2.7	1.892	2.791	11.1	20.5
4 21	11 17.61	+ 6 24.1	1.964	2.781	14.4	20.7

282031 1995 ME_6 3 15.9 207.°58 4.°2/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.54	−14 3.4	2.512	3.270	12.7	21.6
2 21	11 59.96	−14 8.2	2.417	3.267	10.3	21.4
3 2	11 53.77	−13 55.6	2.345	3.264	7.7	21.3
3 12	11 46.49	−13 26.3	2.299	3.261	5.2	21.1
3 22	11 38.82	−12 42.7	2.282	3.258	4.2	21.0
4 1	11 31.51	−11 49.2	2.293	3.255	5.7	21.1
4 11	11 25.29	−10 51.3	2.332	3.251	8.3	21.3
4 21	11 20.67	− 9 54.7	2.396	3.247	11.0	21.4

161146 2002 RH_{245} 3 15.9 176.°94 1.°4/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.21	+ 3 48.1	2.347	3.180	11.1	20.7
2 21	12 0.43	+ 4 30.9	2.269	3.181	8.1	20.5
3 2	11 54.01	+ 5 21.5	2.216	3.182	4.8	20.3
3 12	11 46.55	+ 6 15.2	2.192	3.183	1.6	20.0
3 22	11 38.76	+ 7 6.7	2.198	3.183	3.2	20.1
4 1	11 31.43	+ 7 50.9	2.232	3.183	6.6	20.4
4 11	11 25.28	+ 8 23.8	2.294	3.183	9.8	20.6
4 21	11 20.78	+ 8 43.4	2.379	3.182	12.6	20.7

297815 2002 AF_{98} 3 15.9 52.°12 0.°2/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.58	− 0 41.8	1.237	2.084	18.1	20.2
2 21	12 4.66	− 0 24.6	1.184	2.101	13.5	20.0
3 2	11 56.90	+ 0 9.7	1.152	2.118	8.2	19.7
3 12	11 47.40	+ 0 55.2	1.144	2.135	2.4	19.4
3 22	11 37.53	+ 1 43.6	1.161	2.153	3.4	19.5
4 1	11 28.76	+ 2 26.3	1.203	2.171	8.9	19.9
4 11	11 22.27	+ 2 56.5	1.269	2.189	13.7	20.2
4 21	11 18.65	+ 3 10.7	1.355	2.208	17.7	20.5

44746 1999 TE_{61} 3 15.9 45.°15 1.°4/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.57	− 5 47.3	1.604	2.429	15.7	19.0
2 21	11 59.74	− 5 4.8	1.543	2.446	11.9	18.8
3 2	11 53.77	− 4 2.1	1.505	2.463	7.6	18.6
3 12	11 46.49	− 2 44.6	1.492	2.480	3.0	18.3
3 22	11 38.90	− 1 20.2	1.506	2.498	2.7	18.4
4 1	11 32.06	+ 0 2.1	1.547	2.516	7.1	18.7
4 11	11 26.88	+ 1 14.1	1.614	2.535	11.2	19.0
4 21	11 23.87	+ 2 10.5	1.703	2.554	14.7	19.2

70352 1999 RV_{182} 3 15.9 350.°93 0.°7/16.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.89	− 1 14.5	1.258	2.109	17.7	18.5
2 21	12 2.20	− 1 6.0	1.186	2.104	13.3	18.3
3 2	11 55.64	− 0 39.4	1.134	2.099	8.3	18.0
3 12	11 47.10	+ 0 0.5	1.105	2.096	2.6	17.6
3 22	11 37.87	+ 0 46.4	1.101	2.094	3.4	17.6
4 1	11 29.43	+ 1 29.7	1.122	2.092	9.0	18.0
4 11	11 23.08	+ 2 2.3	1.166	2.091	14.1	18.2
4 21	11 19.59	+ 2 19.4	1.228	2.091	18.5	18.5

464810 2004 RF_{120} 3 15.9 151.°51 1.°3/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.61	+ 1 38.5	2.240	3.070	11.7	21.8
2 21	12 0.04	+ 2 50.5	2.166	3.077	8.5	21.6
3 2	11 53.79	+ 4 13.5	2.118	3.084	5.0	21.4
3 12	11 46.49	+ 5 41.5	2.099	3.090	1.6	21.2
3 22	11 38.88	+ 7 7.5	2.110	3.096	3.3	21.3
4 1	11 31.76	+ 8 24.9	2.151	3.101	6.9	21.5
4 11	11 25.87	+ 9 28.5	2.219	3.106	10.2	21.7
4 21	11 21.68	+10 15.3	2.310	3.110	13.0	21.9

413847 2006 SQ_{343} 3 15.9 287.°36 5.°7/21.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.14	−16 53.7	1.665	2.438	17.5	20.9
2 21	11 59.75	−16 34.1	1.568	2.426	14.5	20.6
3 2	11 54.02	−15 43.5	1.491	2.414	11.0	20.4
3 12	11 46.64	−14 22.2	1.438	2.402	7.4	20.1
3 22	11 38.57	−12 34.8	1.410	2.390	5.7	20.0
4 1	11 31.00	−10 30.5	1.410	2.378	7.7	20.1
4 11	11 25.02	− 8 21.6	1.435	2.367	11.5	20.3
4 21	11 21.37	− 6 19.9	1.484	2.355	15.4	20.5

376830 2001 MJ_{11} 3 15.9 241.°01 5.°2/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.68	+11 59.0	1.796	2.645	13.2	21.9
2 21	12 5.19	+13 20.1	1.709	2.627	9.9	21.6
3 2	11 57.24	+14 46.9	1.647	2.609	6.6	21.4
3 12	11 47.56	+16 10.2	1.613	2.589	5.2	21.2
3 22	11 37.15	+17 20.5	1.607	2.569	7.4	21.3
4 1	11 27.24	+18 10.1	1.628	2.547	11.1	21.5
4 11	11 18.96	+18 35.0	1.674	2.525	14.8	21.7
4 21	11 13.06	+18 35.1	1.738	2.502	18.0	21.8

105544 2000 RC_{41} 3 15.9 135.°54 3.°3/19.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.11	−10 23.1	1.876	2.663	15.3	20.0
2 21	12 3.65	−10 7.9	1.801	2.676	12.0	19.8
3 2	11 56.08	− 9 31.9	1.749	2.689	8.3	19.6
3 12	11 47.16	− 8 37.4	1.722	2.700	4.7	19.4
3 22	11 37.85	− 7 29.7	1.724	2.712	3.6	19.4
4 1	11 29.21	− 6 15.8	1.755	2.722	6.6	19.6
4 11	11 22.15	− 5 4.0	1.812	2.732	10.3	19.8
4 21	11 17.26	− 4 0.5	1.894	2.741	13.6	20.1

436641 2011 QM_{19} 3 15.9 203.°48 0.°1/15.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 2.35	− 1 32.8	2.920	3.733	9.7	21.9
2 21	11 58.09	− 0 35.2	2.827	3.728	7.2	21.7
3 2	11 52.53	+ 0 33.0	2.762	3.723	4.3	21.5
3 12	11 46.13	+ 1 48.1	2.726	3.717	1.2	21.3
3 22	11 39.43	+ 3 5.2	2.721	3.711	2.0	21.4
4 1	11 33.05	+ 4 19.2	2.747	3.704	5.1	21.6
4 11	11 27.54	+ 5 25.5	2.802	3.697	8.0	21.7
4 21	11 23.33	+ 6 20.9	2.882	3.690	10.5	21.9

109043 2001 QM_{14} 3 15.9 196.°70 0.°3/15.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.82	− 0 55.0	2.197	3.018	12.2	20.1
2 21	12 1.04	− 0 0.6	2.111	3.016	9.1	19.9
3 2	11 54.47	+ 1 7.1	2.050	3.012	5.4	19.7
3 12	11 46.72	+ 2 23.1	2.017	3.009	1.5	19.4
3 22	11 38.56	+ 3 41.1	2.014	3.004	2.7	19.5
4 1	11 30.84	+ 4 54.3	2.041	2.999	6.6	19.7
4 11	11 24.37	+ 5 56.9	2.095	2.993	10.2	19.9
4 21	11 19.69	+ 6 45.1	2.173	2.987	13.3	20.1

496487 2014 TE_9 3 15.9 255.°00 0.°3/15.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.13	+ 0 2.8	1.745	2.575	14.5	22.1
2 21	12 4.09	+ 0 32.3	1.648	2.558	10.9	21.8
3 2	11 56.62	+ 1 16.4	1.576	2.540	6.6	21.5
3 12	11 47.40	+ 2 10.3	1.529	2.521	1.9	21.2
3 22	11 37.43	+ 3 7.7	1.511	2.502	3.2	21.2
4 1	11 27.91	+ 4 0.9	1.521	2.482	8.1	21.5
4 11	11 19.95	+ 4 43.4	1.557	2.462	12.6	21.7
4 21	11 14.33	+ 5 10.7	1.613	2.442	16.5	21.9

241121 2007 PC_{20} 3 15.9 227.°31 0.°4/16.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.80	− 1 39.2	1.836	2.657	14.2	21.2
2 21	12 4.41	− 1 14.8	1.744	2.647	10.8	21.0
3 2	11 56.71	− 0 35.6	1.675	2.636	6.6	20.7
3 12	11 47.41	+ 0 14.3	1.633	2.624	2.1	20.4
3 22	11 37.46	+ 1 9.2	1.620	2.611	2.8	20.4
4 1	11 27.99	+ 2 2.1	1.635	2.598	7.4	20.7
4 11	11 20.06	+ 2 46.5	1.677	2.584	11.7	20.9
4 21	11 14.38	+ 3 18.0	1.741	2.570	15.4	21.1

170990 2005 CS_{63} 3 15.9 319.°95 3.°3/18.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.91	− 6 56.8	1.379	2.206	17.8	19.7
2 21	12 2.18	− 7 5.7	1.293	2.193	14.0	19.5
3 2	11 55.68	− 6 52.7	1.227	2.181	9.5	19.2
3 12	11 47.16	− 6 19.2	1.185	2.169	4.9	18.9
3 22	11 37.81	− 5 30.0	1.167	2.158	3.9	18.8
4 1	11 29.03	− 4 33.2	1.175	2.147	8.4	19.0
4 11	11 22.16	− 3 38.3	1.206	2.137	13.3	19.2
4 21	11 18.05	− 2 53.3	1.258	2.127	17.7	19.5

116963 2004 HC_8 3 15.9 196.°29 5.°5/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 12.85	+16 11.2	1.929	2.774	12.6	19.5
2 21	12 6.42	+16 55.1	1.859	2.773	9.6	19.3
3 2	11 57.75	+17 36.9	1.815	2.771	6.7	19.1
3 12	11 47.66	+18 9.1	1.798	2.768	5.5	19.0
3 22	11 37.17	+18 25.6	1.810	2.766	7.2	19.1
4 1	11 27.42	+18 22.7	1.848	2.763	10.2	19.3
4 11	11 19.35	+17 59.4	1.912	2.760	13.4	19.5
4 21	11 13.57	+17 17.6	1.996	2.756	16.1	19.7

241558 2010 GN_{33} 3 15.9 261.°91 1.°0/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.58	+ 1 3.4	2.227	3.059	11.6	20.6
2 21	11 58.66	+ 2 4.1	2.140	3.052	8.6	20.4
3 2	11 53.05	+ 3 16.8	2.078	3.044	5.0	20.1
3 12	11 46.32	+ 4 36.1	2.045	3.037	1.5	19.9
3 22	11 39.19	+ 5 55.5	2.041	3.029	3.0	20.0
4 1	11 32.47	+ 7 8.4	2.066	3.021	6.8	20.2
4 11	11 26.90	+ 8 9.2	2.118	3.013	10.3	20.4
4 21	11 23.01	+ 8 54.5	2.193	3.005	13.3	20.6

184452 2005 NH_{63} 3 15.9 228.°03 6.°3/23.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.95	−21 10.2	2.630	3.339	13.3	20.5
2 21	12 0.32	−21 36.4	2.530	3.334	11.4	20.3
3 2	11 54.03	−21 43.1	2.451	3.329	9.3	20.2
3 12	11 46.60	−21 29.4	2.397	3.324	7.3	20.0
3 22	11 38.74	−20 56.2	2.370	3.318	6.3	20.0
4 1	11 31.20	−20 6.8	2.371	3.313	6.8	20.0
4 11	11 24.73	−19 6.7	2.399	3.307	8.6	20.1
4 21	11 19.86	−18 1.8	2.451	3.301	10.8	20.2

116239 2003 YR_{12} 3 15.9 8.°93 2.°9/18.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.82	− 7 32.0	2.075	2.872	13.7	19.7
2 21	12 1.89	− 7 44.6	1.990	2.873	10.7	19.5
3 2	11 55.04	− 7 41.9	1.929	2.873	7.3	19.3
3 12	11 46.90	− 7 25.5	1.893	2.873	4.0	19.0
3 22	11 38.31	− 6 58.4	1.886	2.874	3.2	19.0
4 1	11 30.21	− 6 25.2	1.908	2.875	6.2	19.2
4 11	11 23.46	− 5 51.5	1.956	2.875	9.6	19.4
4 21	11 18.63	− 5 22.2	2.028	2.876	12.8	19.6

389213 2009 DR_{50} 3 15.9 350°.62 0°.1/15.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 9.02	+ 2 33.3	1.684	2.523	14.5	20.1
2 21	12 3.91	+ 2 11.3	1.602	2.516	10.8	19.8
3 2	11 56.42	+ 1 57.2	1.544	2.509	6.6	19.5
3 12	11 47.32	+ 1 47.9	1.512	2.504	1.9	19.2
3 22	11 37.65	+ 1 40.0	1.508	2.499	2.9	19.3
4 1	11 28.61	+ 1 29.5	1.530	2.495	7.6	19.6
4 11	11 21.25	+ 1 13.1	1.578	2.493	11.9	19.8
4 21	11 16.26	+ 0 48.6	1.648	2.491	15.5	20.0

173754 2001 RQ_{96} 3 15.9 52°.67 1°.9/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.51	− 4 20.2	1.975	2.787	13.7	19.7
2 21	12 2.33	− 4 27.1	1.906	2.801	10.5	19.5
3 2	11 55.23	− 4 20.4	1.861	2.814	6.8	19.3
3 12	11 46.93	− 4 2.6	1.842	2.828	3.0	19.1
3 22	11 38.31	− 3 37.6	1.852	2.843	2.6	19.1
4 1	11 30.33	− 3 10.2	1.890	2.857	6.2	19.3
4 11	11 23.80	− 2 45.5	1.954	2.872	9.8	19.6
4 21	11 19.26	− 2 27.3	2.042	2.886	12.9	19.8

213801 2003 GZ_{7} 3 15.9 268°.42 0°.6/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 1.35	− 4 20.2	2.407	3.220	11.5	20.0
2 21	11 57.62	− 3 26.6	2.319	3.217	8.7	19.8
3 2	11 52.36	− 2 18.3	2.256	3.214	5.4	19.5
3 12	11 46.11	− 0 59.5	2.220	3.210	1.9	19.3
3 22	11 39.53	+ 0 24.1	2.215	3.207	2.1	19.3
4 1	11 33.33	+ 1 46.3	2.239	3.204	5.6	19.5
4 11	11 28.18	+ 3 0.9	2.292	3.200	8.9	19.7
4 21	11 24.56	+ 4 3.6	2.368	3.197	11.9	19.9

88454 2001 QG_{92} 3 15.9 89°.51 3°.2/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.07	+ 8 53.2	1.717	2.564	13.9	19.2
2 21	12 5.19	+ 9 23.2	1.654	2.573	10.2	19.0
3 2	11 57.03	+ 9 57.4	1.615	2.582	6.2	18.8
3 12	11 47.45	+10 29.2	1.603	2.590	3.2	18.6
3 22	11 37.53	+10 52.5	1.619	2.599	5.1	18.7
4 1	11 28.43	+11 2.4	1.663	2.607	9.0	19.0
4 11	11 21.11	+10 56.5	1.731	2.616	12.7	19.2
4 21	11 16.15	+10 34.7	1.820	2.624	15.9	19.5

495351 2014 OB_{45} 3 15.9 189°.49 0°.1/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.04	− 1 9.6	1.789	2.615	14.4	22.3
2 21	12 3.78	− 0 32.7	1.708	2.614	10.8	22.0
3 2	11 56.28	+ 0 19.3	1.651	2.613	6.5	21.8
3 12	11 47.27	+ 1 21.2	1.620	2.611	1.9	21.5
3 22	11 37.75	+ 2 26.3	1.618	2.609	2.9	21.5
4 1	11 28.83	+ 3 27.1	1.645	2.606	7.5	21.8
4 11	11 21.50	+ 4 17.2	1.697	2.603	11.7	22.0
4 21	11 16.42	+ 4 52.3	1.772	2.599	15.3	22.3

45646 2000 EE_{45} 3 15.9 180°.77 0°.7/16.8 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.37	− 2 50.0	2.797	3.601	10.3	19.3
2 21	12 0.34	− 2 28.0	2.709	3.602	7.8	19.1
3 2	11 53.90	− 1 55.8	2.647	3.603	4.9	18.9
3 12	11 46.55	− 1 16.3	2.613	3.603	1.7	18.7
3 22	11 38.90	− 0 33.0	2.611	3.602	1.8	18.7
4 1	11 31.62	+ 0 9.8	2.638	3.601	5.0	18.9
4 11	11 25.32	+ 0 48.3	2.695	3.600	7.9	19.1
4 21	11 20.44	+ 1 19.2	2.776	3.598	10.5	19.3

421661 2014 OE_{372} 3 15.9 139°.66 0°.8/15.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.67	+ 1 36.2	1.811	2.641	14.0	22.4
2 21	12 4.82	+ 2 8.3	1.741	2.651	10.4	22.2
3 2	11 56.80	+ 2 51.6	1.696	2.661	6.1	22.0
3 12	11 47.40	+ 3 40.8	1.679	2.670	1.7	21.7
3 22	11 37.63	+ 4 29.5	1.690	2.679	3.2	21.8
4 1	11 28.58	+ 5 11.4	1.730	2.688	7.6	22.1
4 11	11 21.19	+ 5 41.5	1.795	2.695	11.5	22.3
4 21	11 16.04	+ 5 57.3	1.883	2.702	14.8	22.6

417636 2006 XM_{10} 3 15.9 134°.98 1°.2/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.91	− 4 21.6	2.237	3.039	12.7	21.8
2 21	12 3.15	− 3 59.7	2.164	3.055	9.6	21.6
3 2	11 55.65	− 3 24.4	2.116	3.070	6.1	21.4
3 12	11 47.05	− 2 39.1	2.096	3.084	2.4	21.2
3 22	11 38.17	− 1 48.5	2.106	3.097	2.2	21.2
4 1	11 29.86	− 0 57.8	2.145	3.110	5.8	21.5
4 11	11 22.89	− 0 12.4	2.213	3.121	9.2	21.7
4 21	11 17.75	+ 0 23.9	2.305	3.133	12.2	21.9

322782 2001 ON_{94} 3 15.9 189°.42 6°.5/21.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.63	−16 1.3	1.917	2.671	16.2	20.4
2 21	12 5.03	−16 47.4	1.829	2.671	13.5	20.2
3 2	11 57.10	−17 12.5	1.761	2.670	10.4	20.0
3 12	11 47.54	−17 14.9	1.718	2.669	7.7	19.9
3 22	11 37.34	−16 55.4	1.702	2.668	6.5	19.8
4 1	11 27.64	−16 18.3	1.713	2.667	8.0	19.9
4 11	11 19.50	−15 30.4	1.750	2.666	10.8	20.0
4 21	11 13.63	−14 39.5	1.811	2.664	13.9	20.2

502170 2015 BP_{59} 3 15.9 142°.79 2°.8/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.39	+ 6 55.6	2.009	2.855	12.2	21.1
2 21	12 0.81	+ 7 57.7	1.939	2.858	8.9	20.9
3 2	11 54.36	+ 9 6.8	1.894	2.861	5.3	20.7
3 12	11 46.70	+10 16.2	1.877	2.864	2.8	20.5
3 22	11 38.70	+11 18.8	1.889	2.867	4.7	20.7
4 1	11 31.26	+12 8.6	1.929	2.870	8.2	20.9
4 11	11 25.20	+12 41.5	1.994	2.872	11.6	21.1
4 21	11 21.05	+12 56.4	2.081	2.874	14.5	21.3

95637 2002 GQ_{55} 3 15.9 52°.70 1°.1/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.90	− 2 51.9	1.821	2.644	14.3	19.8
2 21	12 2.11	− 2 41.6	1.746	2.649	10.8	19.6
3 2	11 55.21	− 2 17.0	1.694	2.653	6.8	19.4
3 12	11 46.96	− 1 41.6	1.669	2.658	2.5	19.1
3 22	11 38.30	− 1 0.4	1.671	2.663	2.6	19.1
4 1	11 30.25	− 0 19.5	1.702	2.668	6.8	19.4
4 11	11 23.73	+ 0 15.3	1.758	2.674	10.8	19.6
4 21	11 19.33	+ 0 39.9	1.837	2.679	14.2	19.9

354853 2005 YD_{191} 3 15.9 120°.85 0°.9/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.61	− 2 57.6	1.683	2.501	15.4	21.8
2 21	12 5.60	− 2 32.4	1.618	2.519	11.6	21.6
3 2	11 57.29	− 1 51.2	1.577	2.536	7.2	21.3
3 12	11 47.55	− 0 58.6	1.562	2.552	2.5	21.1
3 22	11 37.46	− 0 1.3	1.575	2.567	2.7	21.1
4 1	11 28.21	+ 0 53.5	1.617	2.582	7.3	21.4
4 11	11 20.76	+ 1 39.3	1.685	2.596	11.5	21.7
4 21	11 15.70	+ 2 11.9	1.775	2.609	15.0	22.0

301119 2008 WX_{56} 3 15.9 207°.21 1°.2/17.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.90	− 4 29.9	1.912	2.720	14.2	22.8
2 21	12 4.39	− 4 1.4	1.820	2.714	10.9	22.6
3 2	11 56.67	− 3 16.0	1.752	2.707	6.9	22.3
3 12	11 47.42	− 2 17.1	1.711	2.699	2.7	22.0
3 22	11 37.58	− 1 10.4	1.699	2.690	2.6	22.0
4 1	11 28.23	− 0 3.3	1.716	2.681	7.0	22.2
4 11	11 20.38	+ 0 57.1	1.760	2.670	11.1	22.5
4 21	11 14.70	+ 1 45.6	1.827	2.658	14.7	22.7

303742 2005 QW_{86} 3 15.9 225°.22 1°.7/17.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.12	− 4 54.4	2.517	3.316	11.5	21.2
2 21	12 1.09	− 4 56.7	2.426	3.313	8.8	21.0
3 2	11 54.44	− 4 47.6	2.359	3.309	5.8	20.8
3 12	11 46.74	− 4 29.0	2.320	3.305	2.7	20.6
3 22	11 38.65	− 4 3.8	2.311	3.302	2.3	20.6
4 1	11 30.95	− 3 35.8	2.332	3.298	5.3	20.8
4 11	11 24.33	− 3 9.3	2.380	3.294	8.5	21.0
4 21	11 19.30	− 2 47.9	2.454	3.289	11.3	21.1

427738 2004 RZ_{65} 3 15.9 146°.90 0°.5/16.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.70	− 1 8.6	2.407	3.215	11.7	21.7
2 21	12 3.66	− 1 0.0	2.329	3.225	8.7	21.5
3 2	11 55.93	− 0 41.8	2.277	3.235	5.4	21.3
3 12	11 47.15	− 0 16.8	2.253	3.244	1.8	21.0
3 22	11 38.06	+ 0 11.1	2.261	3.252	2.1	21.1
4 1	11 29.50	+ 0 37.9	2.298	3.260	5.7	21.3
4 11	11 22.18	+ 0 59.8	2.364	3.267	9.0	21.5
4 21	11 16.60	+ 1 13.8	2.454	3.274	11.8	21.7

256682 2007 YT_{46} 3 15.9 51°.81 3°.6/19.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.19	− 9 34.6	1.561	2.368	17.0	20.2
2 21	12 1.93	− 9 27.9	1.486	2.373	13.4	20.0
3 2	11 55.27	− 8 58.0	1.433	2.379	9.2	19.8
3 12	11 47.01	− 8 7.1	1.404	2.384	5.1	19.5
3 22	11 38.24	− 7 0.9	1.401	2.389	3.9	19.5
4 1	11 30.17	− 5 47.7	1.425	2.395	7.4	19.7
4 11	11 23.87	− 4 36.8	1.474	2.401	11.6	20.0
4 21	11 19.98	− 3 35.6	1.544	2.407	15.4	20.2

196526 2003 OY_{15} 3 15.9 260°.39 4°.3/20.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.57	−12 36.9	2.116	2.890	14.2	20.2
2 21	12 1.10	−12 41.3	2.015	2.878	11.5	20.0
3 2	11 54.66	−12 26.1	1.937	2.866	8.4	19.8
3 12	11 46.84	−11 52.0	1.884	2.853	5.4	19.6
3 22	11 38.46	−11 1.7	1.859	2.840	4.3	19.5
4 1	11 30.44	−10 0.4	1.862	2.828	6.5	19.6
4 11	11 23.69	− 8 55.3	1.892	2.814	9.8	19.8
4 21	11 18.85	− 7 53.0	1.946	2.801	13.0	19.9

408784 1999 WS_{22} 3 15.9 158°.11 1°.7/17.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.03	− 5 54.8	1.968	2.772	14.0	22.1
2 21	12 2.82	− 5 29.0	1.888	2.779	10.8	21.9
3 2	11 55.61	− 4 46.2	1.832	2.784	6.9	21.7
3 12	11 47.09	− 3 50.0	1.803	2.789	3.0	21.4
3 22	11 38.16	− 2 45.7	1.803	2.794	2.6	21.4
4 1	11 29.81	− 1 40.1	1.832	2.798	6.4	21.6
4 11	11 22.92	− 0 40.1	1.887	2.801	10.2	21.9
4 21	11 18.05	+ 0 9.2	1.967	2.804	13.6	22.1

217116 2001 YN_{132} 3 15.9 180°.62 3°.5/20.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 8.87	−12 16.6	2.696	3.451	12.0	20.6
2 21	12 3.04	−12 20.7	2.601	3.453	9.6	20.4
3 2	11 55.59	−12 9.4	2.530	3.454	7.0	20.2
3 12	11 47.07	−11 43.7	2.487	3.454	4.5	20.1
3 22	11 38.18	−11 5.8	2.474	3.453	3.6	20.0
4 1	11 29.66	−10 19.8	2.491	3.452	5.4	20.1
4 11	11 22.22	− 9 30.7	2.537	3.449	8.0	20.3
4 21	11 16.38	− 8 43.3	2.609	3.446	10.6	20.4

357997 2006 DL_{49} 3 15.9 44°.32 2°.0/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.62	+ 3 48.4	1.145	2.007	18.2	20.4
2 21	12 4.85	+ 4 19.5	1.097	2.023	13.3	20.2
3 2	11 57.10	+ 5 3.3	1.069	2.040	7.8	19.9
3 12	11 47.52	+ 5 51.4	1.065	2.057	2.5	19.7
3 22	11 37.60	+ 6 34.6	1.086	2.074	4.8	19.9
4 1	11 28.89	+ 7 4.6	1.131	2.093	10.1	20.2
4 11	11 22.60	+ 7 16.6	1.198	2.111	14.9	20.5
4 21	11 19.30	+ 7 9.3	1.285	2.131	18.9	20.8

338183 2002 RP_{170} 3 15.9 225°.76 0°.1/15.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.16	− 2 7.0	2.418	3.236	11.3	21.6
2 21	11 58.99	− 1 6.3	2.325	3.228	8.5	21.4
3 2	11 53.22	+ 0 8.1	2.258	3.219	5.1	21.1
3 12	11 46.41	+ 1 31.6	2.219	3.210	1.4	20.9
3 22	11 39.20	+ 2 58.1	2.211	3.201	2.3	20.9
4 1	11 32.36	+ 4 21.3	2.233	3.192	6.0	21.1
4 11	11 26.59	+ 5 35.1	2.282	3.182	9.4	21.3
4 21	11 22.38	+ 6 35.4	2.356	3.172	12.3	21.5

286287 2001 VO_{124} 3 15.9 71°.14 1°.5/14.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.78	+ 2 47.7	1.329	2.179	16.9	21.3
2 21	12 5.38	+ 3 25.6	1.277	2.197	12.4	21.1
3 2	11 57.30	+ 4 16.3	1.248	2.216	7.3	20.8
3 12	11 47.57	+ 5 12.0	1.243	2.235	2.2	20.6
3 22	11 37.55	+ 6 4.0	1.265	2.254	4.3	20.8
4 1	11 28.61	+ 6 44.4	1.313	2.272	9.3	21.1
4 11	11 21.85	+ 7 8.2	1.384	2.291	13.8	21.4
4 21	11 17.86	+ 7 13.4	1.475	2.309	17.5	21.7

55319 Takanashi 3 15.9 190°.61 0°.5/16.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.47	− 2 48.7	2.508	3.320	11.1	19.4
2 21	11 59.12	− 2 11.5	2.421	3.319	8.4	19.2
3 2	11 53.25	− 1 22.4	2.360	3.318	5.2	19.0
3 12	11 46.41	− 0 24.7	2.327	3.317	1.7	18.8
3 22	11 39.24	+ 0 36.6	2.324	3.315	2.0	18.8
4 1	11 32.46	+ 1 36.4	2.350	3.313	5.5	19.0
4 11	11 26.73	+ 2 29.8	2.405	3.311	8.7	19.2
4 21	11 22.52	+ 3 13.0	2.484	3.309	11.5	19.4

522588 2016 EX_{246} 3 15.9 251°.49 1°.5/14.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.04	+ 4 2.4	1.987	2.823	12.7	22.2
2 21	12 2.96	+ 4 36.9	1.895	2.809	9.4	22.0
3 2	11 55.79	+ 5 20.7	1.829	2.795	5.6	21.7
3 12	11 47.19	+ 6 8.6	1.790	2.781	1.9	21.4
3 22	11 38.02	+ 6 54.6	1.780	2.766	3.7	21.5
4 1	11 29.30	+ 7 32.8	1.798	2.751	7.8	21.7
4 11	11 21.97	+ 7 58.4	1.842	2.736	11.6	21.9
4 21	11 16.68	+ 8 9.1	1.909	2.720	15.0	22.1

133108 2003 OM_{13} 3 15.9 243°.35 2°.6/13.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.56	+ 5 54.8	1.790	2.632	13.6	20.2
2 21	12 4.32	+ 6 45.1	1.700	2.618	10.0	20.0
3 2	11 56.73	+ 7 45.0	1.636	2.603	6.0	19.7
3 12	11 47.48	+ 8 47.8	1.598	2.587	2.7	19.5
3 22	11 37.57	+ 9 45.8	1.589	2.571	4.8	19.6
4 1	11 28.16	+10 31.8	1.608	2.554	9.1	19.8
4 11	11 20.33	+11 0.5	1.652	2.537	13.2	20.0
4 21	11 14.80	+11 10.1	1.716	2.519	16.7	20.2

502158 2015 BH_{42} 3 15.9 133°.22 0°.9/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.03	+ 2 26.4	1.935	2.769	13.1	21.6
2 21	12 2.82	+ 2 52.2	1.861	2.773	9.7	21.4
3 2	11 55.61	+ 3 27.7	1.811	2.777	5.7	21.2
3 12	11 47.11	+ 4 8.0	1.789	2.780	1.6	20.9
3 22	11 38.22	+ 4 47.7	1.795	2.784	3.1	21.0
4 1	11 29.93	+ 5 21.1	1.829	2.787	7.2	21.3
4 11	11 23.12	+ 5 43.8	1.890	2.791	11.0	21.5
4 21	11 18.36	+ 5 53.5	1.973	2.794	14.2	21.7

507921 2014 WH_{516} 3 15.9 173°.53 2°.7/18.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.05	− 8 32.6	2.103	2.897	13.6	21.6
2 21	12 1.32	− 8 20.4	2.018	2.898	10.7	21.4
3 2	11 54.70	− 7 50.8	1.955	2.899	7.3	21.2
3 12	11 46.85	− 7 6.2	1.919	2.900	3.9	21.0
3 22	11 38.58	− 6 10.6	1.912	2.901	3.0	20.9
4 1	11 30.79	− 5 10.1	1.934	2.901	6.0	21.1
4 11	11 24.32	− 4 11.1	1.982	2.901	9.6	21.3
4 21	11 19.72	− 3 19.3	2.055	2.901	12.7	21.5

333692 2008 UN_{182} 3 15.9 114°.17 0°.4/15.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 5.10	+ 0 22.6	2.068	2.898	12.5	21.1
2 21	12 0.55	+ 1 1.4	1.993	2.902	9.3	20.9
3 2	11 54.20	+ 1 51.8	1.943	2.907	5.5	20.7
3 12	11 46.70	+ 2 48.8	1.920	2.912	1.5	20.4
3 22	11 38.84	+ 3 46.5	1.926	2.916	2.7	20.5
4 1	11 31.53	+ 4 39.1	1.961	2.920	6.7	20.8
4 11	11 25.53	+ 5 21.4	2.022	2.925	10.3	21.0
4 21	11 21.37	+ 5 50.2	2.106	2.929	13.3	21.2

119670 2001 XO_{75} 3 15.9 34°.03 9°.7/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.30	+24 52.2	1.576	2.430	14.5	19.5
2 21	12 5.66	+26 8.1	1.530	2.435	11.8	19.4
3 2	11 57.43	+27 12.6	1.508	2.441	10.0	19.3
3 12	11 47.62	+27 55.0	1.510	2.447	9.9	19.3
3 22	11 37.52	+28 8.1	1.536	2.453	11.6	19.4
4 1	11 28.46	+27 49.5	1.586	2.460	14.1	19.6
4 11	11 21.52	+27 1.2	1.657	2.466	16.8	19.8
4 21	11 17.23	+25 48.5	1.744	2.474	19.2	19.9

81711 2000 JC_{25} 3 15.9 41°.15 8°.4/23.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.61	−18 15.9	1.334	2.110	20.9	18.5
2 21	12 3.27	−19 2.0	1.278	2.131	17.4	18.3
3 2	11 56.17	−19 15.8	1.240	2.152	13.6	18.1
3 12	11 47.29	−18 55.9	1.223	2.174	10.2	18.0
3 22	11 37.98	−18 5.7	1.230	2.197	8.4	17.9
4 1	11 29.65	−16 53.4	1.261	2.220	9.6	18.1
4 11	11 23.49	−15 31.0	1.315	2.244	12.5	18.3
4 21	11 20.13	−14 9.6	1.390	2.268	15.8	18.6

428074 2006 HC_{76} 3 15.9 204°.61 2°.6/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.14	+ 6 38.3	2.233	3.076	11.2	21.6
2 21	11 59.78	+ 7 44.6	2.156	3.074	8.2	21.4
3 2	11 53.72	+ 8 58.2	2.105	3.072	4.9	21.2
3 12	11 46.56	+10 12.5	2.082	3.069	2.6	21.0
3 22	11 39.04	+11 21.3	2.089	3.067	4.4	21.1
4 1	11 31.98	+12 18.4	2.125	3.064	7.7	21.3
4 11	11 26.13	+12 59.8	2.186	3.061	10.9	21.5
4 21	11 21.98	+13 23.8	2.270	3.057	13.6	21.7

497441 2005 YW_{13} 3 15.9 113°.86 3°.9/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.68	−11 27.9	2.061	2.839	14.4	22.0
2 21	12 2.51	−11 35.1	1.983	2.849	11.5	21.9
3 2	11 55.40	−11 23.6	1.928	2.860	8.2	21.7
3 12	11 47.05	−10 54.6	1.898	2.870	5.1	21.5
3 22	11 38.32	−10 11.5	1.897	2.880	4.0	21.5
4 1	11 30.15	− 9 19.7	1.925	2.890	6.3	21.6
4 11	11 23.39	− 8 25.8	1.979	2.899	9.5	21.8
4 21	11 18.60	− 7 35.8	2.057	2.908	12.5	22.0

93216 2000 ST_{128} 3 15.9 122°.66 1°.7/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.69	− 6 50.8	1.965	2.772	14.0	20.0
2 21	12 0.37	− 6 13.3	1.886	2.778	10.7	19.8
3 2	11 54.14	− 5 17.5	1.831	2.784	7.0	19.6
3 12	11 46.69	− 4 7.2	1.803	2.789	3.1	19.3
3 22	11 38.87	− 2 48.4	1.803	2.795	2.5	19.3
4 1	11 31.59	− 1 28.7	1.832	2.800	6.3	19.5
4 11	11 25.69	− 0 15.3	1.887	2.805	10.1	19.8
4 21	11 21.72	+ 0 46.2	1.967	2.810	13.4	20.0

495491 2014 UD_{104} 3 15.9 208°.76 2°.3/13.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.69	+ 5 1.3	2.003	2.840	12.6	22.2
2 21	12 3.38	+ 6 1.0	1.919	2.834	9.2	22.0
3 2	11 56.01	+ 7 10.3	1.860	2.827	5.5	21.8
3 12	11 47.25	+ 8 22.7	1.830	2.819	2.4	21.5
3 22	11 37.99	+ 9 30.9	1.828	2.810	4.3	21.6
4 1	11 29.24	+10 28.1	1.856	2.801	8.2	21.9
4 11	11 21.90	+11 9.4	1.910	2.791	11.9	22.1
4 21	11 16.60	+11 32.6	1.985	2.780	15.1	22.2

434793 2006 QG_{166} 3 15.9 163°.84 1°.9/18.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.36	−10 26.7	2.722	3.499	11.3	21.5
2 21	11 58.20	− 9 25.5	2.631	3.503	8.8	21.3
3 2	11 52.66	− 8 7.1	2.565	3.506	6.0	21.1
3 12	11 46.24	− 6 34.8	2.528	3.509	3.0	20.9
3 22	11 39.56	− 4 53.8	2.522	3.512	2.2	20.9
4 1	11 33.26	− 3 10.4	2.548	3.514	4.8	21.1
4 11	11 27.92	− 1 31.1	2.603	3.517	7.8	21.3
4 21	11 23.99	− 0 1.3	2.684	3.518	10.5	21.4

453868 2011 UK_{114} 3 15.9 146°.17 5°.5/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 12.75	+15 19.2	1.924	2.769	12.7	21.5
2 21	12 6.26	+16 25.6	1.867	2.780	9.5	21.3
3 2	11 57.62	+17 30.8	1.835	2.791	6.6	21.1
3 12	11 47.67	+18 26.5	1.832	2.801	5.5	21.1
3 22	11 37.44	+19 5.9	1.857	2.811	7.3	21.2
4 1	11 28.01	+19 24.7	1.910	2.819	10.2	21.4
4 11	11 20.29	+19 21.8	1.987	2.827	13.2	21.6
4 21	11 14.82	+18 58.7	2.084	2.834	15.8	21.8

172132 2002 JE_{34} 3 15.9 237.°56 1.°0/15.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 8.47	+ 1 37.6	1.933	2.763	13.2	21.1
2 21	12 3.36	+ 2 19.3	1.839	2.749	9.9	20.9
3 2	11 56.08	+ 3 13.4	1.770	2.735	5.9	20.6
3 12	11 47.30	+ 4 14.7	1.729	2.720	1.7	20.3
3 22	11 37.90	+ 5 16.7	1.716	2.705	3.3	20.4
4 1	11 28.95	+ 6 12.3	1.732	2.689	7.7	20.6
4 11	11 21.42	+ 6 55.8	1.775	2.672	11.8	20.8
4 21	11 15.99	+ 7 23.6	1.839	2.654	15.3	21.0

411653 2011 VC_{14} 3 15.9 356.°91 0.°8/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.87	− 2 26.8	1.178	2.032	18.4	20.5
2 21	12 0.85	− 2 4.8	1.108	2.028	13.9	20.3
3 2	11 54.92	− 1 21.0	1.059	2.026	8.6	19.9
3 12	11 47.00	− 0 21.0	1.033	2.024	2.8	19.6
3 22	11 38.40	+ 0 46.4	1.031	2.023	3.4	19.6
4 1	11 30.62	+ 1 50.5	1.052	2.024	9.2	20.0
4 11	11 24.98	+ 2 41.7	1.096	2.025	14.5	20.2
4 21	11 22.25	+ 3 14.0	1.159	2.027	19.0	20.5

130496 2000 QT_{127} 3 15.9 188.°28 1.°2/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.98	+ 3 4.5	1.907	2.737	13.4	19.8
2 21	12 5.10	+ 3 36.8	1.827	2.737	9.9	19.5
3 2	11 57.05	+ 4 18.9	1.771	2.736	5.9	19.3
3 12	11 47.55	+ 5 5.7	1.743	2.734	1.8	19.0
3 22	11 37.58	+ 5 50.9	1.744	2.732	3.5	19.1
4 1	11 28.21	+ 6 28.6	1.774	2.729	7.7	19.4
4 11	11 20.39	+ 6 54.2	1.831	2.725	11.6	19.6
4 21	11 14.75	+ 7 5.3	1.909	2.721	14.9	19.8

149916 2005 SK_{101} 3 15.9 78.°19 1.°1/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.60	− 3 1.6	1.756	2.579	14.7	20.4
2 21	12 2.68	− 2 47.4	1.685	2.587	11.1	20.2
3 2	11 55.60	− 2 17.9	1.636	2.595	7.0	20.0
3 12	11 47.13	− 1 37.2	1.614	2.603	2.5	19.7
3 22	11 38.26	− 0 50.7	1.619	2.611	2.6	19.7
4 1	11 30.06	− 0 5.0	1.653	2.619	7.0	20.0
4 11	11 23.47	+ 0 33.8	1.712	2.628	11.0	20.3
4 21	11 19.07	+ 1 1.5	1.793	2.636	14.5	20.5

495348 2014 OB_{39} 3 15.9 318.°45 2.°7/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.53	+ 4 32.6	1.213	2.078	17.2	21.6
2 21	12 2.90	+ 5 19.1	1.137	2.066	12.8	21.3
3 2	11 56.24	+ 6 20.2	1.083	2.054	7.6	21.0
3 12	11 47.41	+ 7 27.5	1.052	2.043	3.0	20.7
3 22	11 37.75	+ 8 30.3	1.046	2.032	5.6	20.8
4 1	11 28.84	+ 9 18.3	1.063	2.022	11.1	21.1
4 11	11 22.09	+ 9 44.4	1.103	2.012	16.2	21.3
4 21	11 18.37	+ 9 46.1	1.160	2.003	20.7	21.6

347332 2011 UK_{295} 3 15.9 301.°79 3.°2/19.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.59	−11 4.5	2.296	3.078	13.0	20.4
2 21	11 58.69	−10 49.8	2.203	3.074	10.3	20.2
3 2	11 53.11	−10 16.9	2.133	3.069	7.3	20.0
3 12	11 46.42	− 9 27.9	2.089	3.064	4.3	19.8
3 22	11 39.33	− 8 26.3	2.074	3.059	3.3	19.7
4 1	11 32.63	− 7 17.8	2.087	3.055	5.6	19.9
4 11	11 27.06	− 6 8.8	2.128	3.050	8.8	20.1
4 21	11 23.15	− 5 5.2	2.193	3.046	11.8	20.2

519943 2013 RU_{106} 3 15.9 190.°21 1.°9/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.02	+ 3 55.6	2.343	3.176	11.1	22.4
2 21	12 0.37	+ 5 10.6	2.262	3.175	8.1	22.2
3 2	11 54.07	+ 6 35.1	2.207	3.174	4.8	22.0
3 12	11 46.69	+ 8 3.0	2.182	3.171	2.0	21.8
3 22	11 38.94	+ 9 27.4	2.187	3.168	3.8	22.0
4 1	11 31.63	+10 42.0	2.222	3.165	7.2	22.2
4 11	11 25.47	+11 41.9	2.284	3.161	10.4	22.4
4 21	11 20.96	+12 24.7	2.369	3.156	13.1	22.5

434473 2005 QQ_{104} 3 15.9 269.°92 0.°8/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.39	− 4 13.5	2.469	3.279	11.4	21.4
2 21	11 58.47	− 3 30.2	2.366	3.262	8.6	21.2
3 2	11 52.96	− 2 32.6	2.287	3.244	5.4	21.0
3 12	11 46.39	− 1 24.0	2.238	3.227	2.0	20.7
3 22	11 39.37	− 0 9.6	2.217	3.209	2.0	20.7
4 1	11 32.67	+ 1 5.0	2.227	3.192	5.6	20.9
4 11	11 26.97	+ 2 13.6	2.265	3.174	9.0	21.1
4 21	11 22.80	+ 3 11.9	2.326	3.156	12.0	21.3

229169 2004 TQ_{130} 3 15.9 264.°16 6.°6/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.82	+18 45.2	1.934	2.784	12.4	19.9
2 21	12 4.32	+19 46.2	1.861	2.774	9.6	19.7
3 2	11 56.61	+20 44.0	1.814	2.764	7.3	19.5
3 12	11 47.45	+21 30.2	1.794	2.753	6.6	19.5
3 22	11 37.82	+21 58.0	1.801	2.743	8.4	19.5
4 1	11 28.82	+22 2.9	1.834	2.732	11.2	19.7
4 11	11 21.42	+21 44.2	1.890	2.722	14.1	19.9
4 21	11 16.24	+21 3.8	1.965	2.711	16.8	20.0

278332 2007 HL_{69} 3 15.9 201.°33 0.°5/15.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 4.74	− 0 5.9	2.129	2.957	12.3	20.9
2 21	12 0.32	+ 0 44.2	2.046	2.955	9.1	20.7
3 2	11 54.11	+ 1 46.9	1.988	2.952	5.4	20.5
3 12	11 46.72	+ 2 57.2	1.958	2.950	1.5	20.2
3 22	11 38.93	+ 4 8.7	1.957	2.947	2.8	20.3
4 1	11 31.61	+ 5 15.0	1.986	2.944	6.7	20.5
4 11	11 25.55	+ 6 10.3	2.040	2.941	10.3	20.8
4 21	11 21.27	+ 6 51.1	2.118	2.937	13.4	20.9

423230 2004 RD_{320} 3 15.9 124.°86 2.°9/19.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.70	−10 23.2	2.362	3.138	12.8	21.9
2 21	12 1.52	−10 6.9	2.286	3.155	10.1	21.7
3 2	11 54.71	− 9 33.8	2.234	3.170	7.0	21.6
3 12	11 46.87	− 8 46.2	2.209	3.185	4.0	21.4
3 22	11 38.76	− 7 48.2	2.214	3.200	3.0	21.4
4 1	11 31.17	− 6 45.0	2.248	3.214	5.5	21.5
4 11	11 24.81	− 5 42.8	2.311	3.228	8.5	21.7
4 21	11 20.15	− 4 46.6	2.398	3.241	11.3	21.9

130807 2000 TY_{67} 3 15.9 127.°17 1.°8/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.89	− 5 40.4	1.680	2.494	15.7	19.9
2 21	12 3.75	− 5 19.2	1.608	2.504	12.0	19.6
3 2	11 56.30	− 4 39.1	1.558	2.513	7.7	19.4
3 12	11 47.37	− 3 44.1	1.534	2.521	3.3	19.2
3 22	11 38.00	− 2 40.2	1.538	2.530	2.8	19.1
4 1	11 29.35	− 1 35.3	1.570	2.538	7.1	19.4
4 11	11 22.41	− 0 37.0	1.627	2.545	11.3	19.7
4 21	11 17.80	+ 0 9.2	1.707	2.552	15.0	19.9

403889 2011 WU_{117} 3 15.9 86.°74 5.°4/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.45	+12 0.4	1.495	2.354	14.9	21.3
2 21	12 4.97	+13 13.9	1.447	2.370	11.0	21.1
3 2	11 57.01	+14 29.6	1.422	2.386	7.2	20.9
3 12	11 47.55	+15 37.3	1.424	2.402	5.4	20.8
3 22	11 37.82	+16 28.2	1.452	2.418	7.5	21.0
4 1	11 29.09	+16 56.5	1.506	2.433	11.1	21.2
4 11	11 22.36	+17 0.3	1.582	2.449	14.7	21.5
4 21	11 18.20	+16 41.4	1.678	2.464	17.7	21.7

148653 2001 SK_{118} 3 15.9 117.°56 1.°9/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.25	− 6 24.7	1.936	2.741	14.2	20.9
2 21	12 2.25	− 6 2.7	1.862	2.753	10.9	20.7
3 2	11 55.29	− 5 23.5	1.813	2.764	7.1	20.5
3 12	11 47.07	− 4 30.6	1.789	2.775	3.2	20.3
3 22	11 38.49	− 3 29.4	1.795	2.786	2.6	20.3
4 1	11 30.54	− 2 26.5	1.829	2.796	6.3	20.5
4 11	11 24.06	− 1 28.6	1.889	2.806	10.1	20.8
4 21	11 19.59	− 0 40.9	1.973	2.816	13.4	21.0

102298 1999 TO_{86} 3 15.9 188.°51 0.°5/15.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.39	− 0 35.6	2.182	3.002	12.3	21.4
2 21	12 2.25	+ 0 24.8	2.097	3.001	9.1	21.2
3 2	11 55.27	+ 1 38.6	2.037	3.000	5.4	21.0
3 12	11 47.07	+ 3 0.4	2.006	2.998	1.5	20.7
3 22	11 38.47	+ 4 23.5	2.005	2.995	2.8	20.8
4 1	11 30.33	+ 5 41.0	2.035	2.991	6.8	21.0
4 11	11 23.47	+ 6 46.8	2.091	2.986	10.4	21.2
4 21	11 18.44	+ 7 37.3	2.172	2.980	13.5	21.4

430740 2004 HQ_{47} 3 15.9 321.°70 4.°2/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 0.68	+ 8 46.0	1.884	2.744	12.2	20.4
2 21	11 57.64	+10 27.5	1.802	2.728	8.9	20.2
3 2	11 52.66	+12 18.4	1.745	2.712	5.7	19.9
3 12	11 46.35	+14 9.7	1.716	2.697	4.3	19.8
3 22	11 39.53	+15 51.6	1.716	2.682	6.5	19.9
4 1	11 33.14	+17 15.6	1.742	2.668	10.0	20.1
4 11	11 28.08	+18 16.1	1.792	2.654	13.5	20.3
4 21	11 24.94	+18 51.3	1.862	2.640	16.5	20.4

248793 2006 SD_{85} 3 15.9 219.°90 0.°2/15.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 3.90	− 0 11.5	2.547	3.367	10.8	21.7
2 21	11 59.47	+ 0 24.2	2.458	3.362	8.0	21.5
3 2	11 53.52	+ 1 10.0	2.394	3.356	4.8	21.3
3 12	11 46.57	+ 2 2.2	2.359	3.350	1.3	21.1
3 22	11 39.28	+ 2 56.1	2.353	3.344	2.2	21.1
4 1	11 32.36	+ 3 46.9	2.378	3.337	5.7	21.4
4 11	11 26.46	+ 4 30.1	2.430	3.331	8.9	21.5
4 21	11 22.07	+ 5 2.6	2.506	3.324	11.6	21.7

50820 2000 FV_{33} 3 15.9 177.°70 1.°6/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.22	+ 4 25.5	2.234	3.070	11.5	18.8
2 21	12 0.58	+ 5 8.6	2.156	3.071	8.4	18.6
3 2	11 54.23	+ 5 59.4	2.105	3.071	4.9	18.4
3 12	11 46.78	+ 6 52.9	2.081	3.071	1.8	18.2
3 22	11 38.99	+ 7 43.5	2.087	3.071	3.4	18.3
4 1	11 31.68	+ 8 26.0	2.121	3.071	6.9	18.5
4 11	11 25.60	+ 8 56.4	2.182	3.071	10.2	18.7
4 21	11 21.24	+ 9 12.6	2.266	3.071	13.1	18.9

293786 2007 RZ_{131} 3 15.9 178°.01 0°.9/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 10.15	+ 1 43.2	2.027	2.852	12.9	21.7
2 21	12 4.38	+ 2 21.0	1.947	2.855	9.6	21.5
3 2	11 56.59	+ 3 9.5	1.892	2.856	5.7	21.2
3 12	11 47.48	+ 4 3.7	1.866	2.857	1.6	20.9
3 22	11 37.95	+ 4 57.6	1.869	2.858	3.1	21.0
4 1	11 28.98	+ 5 45.0	1.901	2.857	7.2	21.3
4 11	11 21.46	+ 6 21.1	1.960	2.856	10.9	21.5
4 21	11 15.98	+ 6 43.2	2.042	2.853	14.1	21.7

195626 2002 LA_{58} 3 15.9 68°.40 7°.3/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.34	+20 15.9	1.934	2.790	12.1	19.5
2 21	12 1.72	+21 48.5	1.878	2.790	9.6	19.3
3 2	11 55.02	+23 16.7	1.847	2.791	7.7	19.2
3 12	11 47.02	+24 31.2	1.843	2.791	7.5	19.2
3 22	11 38.66	+25 24.4	1.866	2.791	9.3	19.3
4 1	11 30.95	+25 51.8	1.913	2.792	11.8	19.5
4 11	11 24.78	+25 52.6	1.983	2.792	14.4	19.6
4 21	11 20.71	+25 29.1	2.071	2.792	16.7	19.8

345581 2006 SG_{27} 3 15.9 213°.95 1°.7/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.16	− 5 10.1	2.449	3.249	11.8	20.4
2 21	12 1.20	− 5 9.1	2.359	3.246	9.1	20.2
3 2	11 54.59	− 4 55.9	2.293	3.243	5.9	20.0
3 12	11 46.90	− 4 32.8	2.255	3.240	2.8	19.8
3 22	11 38.82	− 4 2.7	2.247	3.237	2.3	19.8
4 1	11 31.14	− 3 29.8	2.268	3.234	5.4	20.0
4 11	11 24.56	− 2 58.7	2.316	3.230	8.6	20.2
4 21	11 19.62	− 2 33.1	2.390	3.227	11.5	20.3

345689 2006 UP_{162} 3 15.9 250°.59 5°.2/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.36	+17 51.9	2.336	3.181	10.7	21.0
2 21	12 2.85	+18 36.2	2.267	3.178	8.2	20.9
3 2	11 55.56	+19 17.5	2.224	3.175	6.0	20.7
3 12	11 47.16	+19 49.6	2.209	3.172	5.3	20.7
3 22	11 38.46	+20 7.6	2.222	3.169	6.7	20.7
4 1	11 30.31	+20 8.3	2.263	3.166	9.2	20.9
4 11	11 23.47	+19 50.8	2.328	3.162	11.7	21.1
4 21	11 18.46	+19 16.3	2.415	3.159	14.0	21.2

291666 2006 HS_{69} 3 15.9 288°.61 4°.6/12.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.30	+ 9 23.8	1.491	2.350	14.9	21.0
2 21	12 3.95	+10 28.7	1.401	2.326	11.1	20.7
3 2	11 56.82	+11 42.9	1.334	2.302	7.1	20.4
3 12	11 47.65	+12 57.1	1.293	2.277	4.6	20.1
3 22	11 37.58	+14 0.9	1.279	2.253	7.1	20.2
4 1	11 28.00	+14 45.4	1.289	2.228	11.6	20.4
4 11	11 20.24	+15 4.9	1.323	2.204	16.1	20.6
4 21	11 15.19	+14 58.4	1.374	2.179	20.0	20.8

98031 2000 RU_{7} 3 15.9 186°.91 2°.1/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.94	+ 5 13.7	2.079	2.911	12.3	19.8
2 21	12 4.21	+ 6 5.7	1.999	2.911	9.1	19.6
3 2	11 56.48	+ 7 6.1	1.945	2.911	5.4	19.4
3 12	11 47.45	+ 8 8.6	1.920	2.909	2.3	19.2
3 22	11 38.00	+ 9 6.8	1.924	2.906	4.1	19.3
4 1	11 29.09	+ 9 54.6	1.958	2.903	7.8	19.5
4 11	11 21.59	+10 27.7	2.018	2.899	11.3	19.7
4 21	11 16.08	+10 44.5	2.100	2.893	14.4	19.9

106006 2000 SY_{285} 3 15.9 54°.96 0°.5/16.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.35	− 0 56.4	2.252	3.071	12.0	19.5
2 21	12 1.38	− 0 50.0	2.173	3.075	9.0	19.3
3 2	11 54.70	− 0 33.6	2.120	3.080	5.5	19.1
3 12	11 46.92	− 0 10.2	2.094	3.084	1.8	18.9
3 22	11 38.81	+ 0 16.5	2.097	3.089	2.2	18.9
4 1	11 31.19	+ 0 42.0	2.130	3.094	5.9	19.2
4 11	11 24.81	+ 1 2.2	2.189	3.099	9.3	19.4
4 21	11 20.17	+ 1 14.3	2.273	3.104	12.2	19.6

122281 2000 PS_{12} 3 15.9 194°.07 6°.3/22.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.54	−19 14.3	2.166	2.899	15.1	20.2
2 21	12 1.81	−19 28.5	2.073	2.898	12.8	20.0
3 2	11 55.12	−19 19.5	2.000	2.896	10.1	19.9
3 12	11 47.08	−18 46.8	1.952	2.894	7.6	19.7
3 22	11 38.54	−17 52.4	1.930	2.892	6.3	19.6
4 1	11 30.44	−16 41.2	1.936	2.889	7.2	19.7
4 11	11 23.66	−15 20.8	1.969	2.886	9.7	19.8
4 21	11 18.82	−13 59.0	2.026	2.883	12.5	20.0

292946 2006 VO_{96} 3 15.9 91°.92 2°.7/18.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.08	− 8 12.0	1.764	2.568	15.5	20.3
2 21	12 2.31	− 7 55.5	1.693	2.580	12.0	20.1
3 2	11 55.41	− 7 19.1	1.645	2.593	8.0	19.9
3 12	11 47.15	− 6 25.8	1.622	2.605	4.1	19.7
3 22	11 38.51	− 5 21.4	1.627	2.617	3.1	19.7
4 1	11 30.55	− 4 13.1	1.660	2.629	6.7	19.9
4 11	11 24.20	− 3 8.9	1.719	2.641	10.6	20.2
4 21	11 20.02	− 2 14.6	1.801	2.653	14.0	20.4

488760 2004 TP_{38} 3 15.9 212°.49 1°.2/14.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 7.11	+ 3 14.4	2.172	3.004	11.9	22.2
2 21	12 2.07	+ 3 50.4	2.088	2.999	8.8	22.0
3 2	11 55.19	+ 4 35.3	2.029	2.994	5.2	21.7
3 12	11 47.09	+ 5 24.3	1.997	2.989	1.6	21.5
3 22	11 38.56	+ 6 11.9	1.996	2.983	3.2	21.6
4 1	11 30.51	+ 6 52.7	2.023	2.977	7.0	21.8
4 11	11 23.72	+ 7 22.4	2.077	2.970	10.5	22.0
4 21	11 18.78	+ 7 38.6	2.154	2.963	13.5	22.2

385872 2006 RU_{71} 3 15.9 112°.12 0°.5/15.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.80	+ 2 7.3	2.414	3.238	11.1	20.9
2 21	12 1.58	+ 2 23.4	2.340	3.246	8.2	20.7
3 2	11 54.75	+ 2 47.0	2.290	3.254	4.9	20.5
3 12	11 46.93	+ 3 14.7	2.270	3.261	1.4	20.2
3 22	11 38.83	+ 3 42.3	2.279	3.269	2.4	20.3
4 1	11 31.23	+ 4 6.0	2.318	3.276	5.9	20.6
4 11	11 24.80	+ 4 22.2	2.384	3.283	9.1	20.8
4 21	11 20.02	+ 4 29.0	2.474	3.290	11.8	21.0

256209 2006 VW_{103} 3 15.9 75°.06 7°.3/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.89	+18 5.1	1.652	2.511	13.7	20.3
2 21	12 3.81	+19 26.9	1.599	2.516	10.5	20.1
3 2	11 56.36	+20 45.4	1.570	2.521	8.0	19.9
3 12	11 47.42	+21 50.2	1.567	2.527	7.4	19.9
3 22	11 38.14	+22 33.2	1.590	2.532	9.3	20.0
4 1	11 29.70	+22 49.7	1.638	2.538	12.2	20.2
4 11	11 23.09	+22 39.1	1.708	2.543	15.3	20.4
4 21	11 18.91	+22 4.1	1.796	2.549	17.9	20.6

77091 2001 DH_{46} 3 15.9 299°.09 0°.4/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.62	− 2 3.0	1.496	2.334	16.0	19.5
2 21	12 1.86	− 1 33.6	1.404	2.316	12.1	19.2
3 2	11 55.50	− 0 45.2	1.335	2.299	7.5	18.9
3 12	11 47.27	+ 0 17.7	1.290	2.281	2.4	18.5
3 22	11 38.23	+ 1 27.6	1.271	2.263	3.2	18.5
4 1	11 29.68	+ 2 35.4	1.279	2.246	8.5	18.8
4 11	11 22.85	+ 3 32.3	1.311	2.229	13.5	19.0
4 21	11 18.57	+ 4 12.4	1.363	2.213	17.8	19.2

502566 2015 BY_{493} 3 15.9 298°.46 1°.0/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.98	− 2 50.8	1.927	2.749	13.7	21.4
2 21	12 1.46	− 2 34.8	1.843	2.745	10.3	21.2
3 2	11 54.92	− 2 4.6	1.782	2.741	6.5	20.9
3 12	11 47.03	− 1 23.7	1.748	2.737	2.4	20.7
3 22	11 38.67	− 0 37.0	1.742	2.734	2.5	20.7
4 1	11 30.81	+ 0 9.3	1.764	2.730	6.6	20.9
4 11	11 24.35	+ 0 49.4	1.812	2.727	10.6	21.1
4 21	11 19.90	+ 1 19.0	1.883	2.723	14.0	21.3

343152 2009 FV_{76} 3 15.9 1°.35 2°.9/19.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	11 59.86	−11 14.7	1.850	2.650	15.0	19.8
2 21	11 57.01	−10 26.0	1.766	2.649	11.8	19.6
3 2	11 52.26	− 9 12.9	1.704	2.648	8.1	19.3
3 12	11 46.26	− 7 38.9	1.668	2.648	4.4	19.1
3 22	11 39.85	− 5 50.9	1.659	2.649	3.1	19.0
4 1	11 33.95	− 3 58.0	1.679	2.651	6.3	19.2
4 11	11 29.39	− 2 10.1	1.725	2.653	10.2	19.5
4 21	11 26.75	− 0 35.1	1.795	2.655	13.7	19.7

300938 2008 CF_{135} 3 15.9 165°.18 1°.3/17.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.29	− 5 0.7	2.809	3.606	10.5	22.1
2 21	11 59.60	− 4 44.4	2.722	3.609	8.0	21.9
3 2	11 53.53	− 4 16.9	2.661	3.612	5.2	21.7
3 12	11 46.59	− 3 40.8	2.629	3.615	2.3	21.5
3 22	11 39.36	− 2 59.2	2.626	3.617	1.9	21.5
4 1	11 32.50	− 2 16.3	2.654	3.619	4.8	21.7
4 11	11 26.60	− 1 36.2	2.710	3.621	7.6	21.9
4 21	11 22.08	− 1 2.3	2.792	3.623	10.2	22.1

336141 2008 QM_{17} 3 15.9 282°.69 0°.5/16.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.99	+ 0 16.2	1.903	2.726	13.7	20.5
2 21	12 5.38	+ 0 7.6	1.803	2.707	10.4	20.2
3 2	11 57.43	+ 0 8.9	1.726	2.687	6.5	19.9
3 12	11 47.81	+ 0 17.5	1.677	2.668	2.1	19.6
3 22	11 37.46	+ 0 29.5	1.656	2.648	2.7	19.6
4 1	11 27.50	+ 0 40.5	1.665	2.628	7.2	19.8
4 11	11 19.00	+ 0 46.0	1.699	2.609	11.5	20.0
4 21	11 12.72	+ 0 42.8	1.756	2.589	15.2	20.2

87433 2000 QM_{105} 3 15.9 222°.08 2°.7/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.49	+ 7 59.7	2.386	3.223	10.8	20.5
2 21	12 2.26	+ 8 53.1	2.298	3.212	7.9	20.3
3 2	11 55.28	+ 9 52.1	2.236	3.201	4.8	20.1
3 12	11 47.13	+10 51.2	2.203	3.189	2.7	19.9
3 22	11 38.55	+11 44.4	2.200	3.176	4.4	20.0
4 1	11 30.37	+12 26.8	2.227	3.163	7.6	20.2
4 11	11 23.35	+12 54.7	2.280	3.149	10.7	20.4
4 21	11 18.05	+13 6.7	2.355	3.134	13.4	20.5

54641 2000 SA_{242} 3 15.9 337°.82 1°.0/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 6.70	− 1 16.1	1.437	2.279	16.4	18.3
2 21	12 2.65	− 1 20.9	1.356	2.269	12.4	18.0
3 2	11 55.96	− 1 10.7	1.295	2.259	7.8	17.7
3 12	11 47.40	− 0 48.9	1.259	2.250	2.7	17.3
3 22	11 38.12	− 0 20.6	1.249	2.242	3.1	17.3
4 1	11 29.47	+ 0 7.2	1.265	2.234	8.3	17.6
4 11	11 22.66	+ 0 28.1	1.304	2.228	13.1	17.9
4 21	11 18.49	+ 0 37.2	1.363	2.222	17.3	18.1

345445 2006 EO_{3} 3 15.9 216°.73 0°.6/15.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.90	+ 1 30.4	2.165	2.992	12.1	21.5
2 21	12 1.93	+ 1 58.1	2.080	2.988	9.0	21.3
3 2	11 55.12	+ 2 35.7	2.019	2.983	5.4	21.0
3 12	11 47.09	+ 3 18.9	1.987	2.979	1.5	20.8
3 22	11 38.64	+ 4 2.6	1.984	2.974	2.7	20.8
4 1	11 30.66	+ 4 41.7	2.010	2.969	6.6	21.1
4 11	11 23.95	+ 5 11.5	2.063	2.963	10.2	21.3
4 21	11 19.07	+ 5 29.2	2.139	2.957	13.3	21.5

94343 2001 QB_{76} 3 15.9 132°.59 0°.3/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 13.00	+ 0 43.0	1.733	2.558	14.7	19.9
2 21	12 6.67	+ 1 3.9	1.665	2.572	11.0	19.6
3 2	11 58.02	+ 1 36.8	1.622	2.585	6.6	19.4
3 12	11 47.92	+ 2 16.7	1.605	2.597	1.8	19.1
3 22	11 37.45	+ 2 57.5	1.618	2.608	3.0	19.2
4 1	11 27.78	+ 3 33.1	1.659	2.619	7.6	19.5
4 11	11 19.90	+ 3 58.5	1.726	2.629	11.7	19.8
4 21	11 14.40	+ 4 10.8	1.815	2.639	15.1	20.0

489519 2007 QZ_{8} 3 15.9 237°.37 0°.1/16.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.90	− 1 7.7	1.880	2.701	13.9	22.4
2 21	12 4.56	− 0 37.5	1.782	2.686	10.5	22.2
3 2	11 56.93	+ 0 7.4	1.709	2.670	6.5	21.9
3 12	11 47.67	+ 1 2.6	1.662	2.653	1.9	21.6
3 22	11 37.72	+ 2 2.4	1.645	2.636	2.8	21.6
4 1	11 28.19	+ 2 59.5	1.656	2.618	7.5	21.8
4 11	11 20.12	+ 3 47.3	1.694	2.599	11.8	22.0
4 21	11 14.26	+ 4 21.4	1.754	2.579	15.5	22.2

124936 2001 TV_{77} 3 15.9 218°.61 6°.3/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.45	+19 19.2	2.155	2.998	11.6	20.7
2 21	12 5.35	+20 20.2	2.082	2.990	9.0	20.5
3 2	11 57.20	+21 17.5	2.035	2.981	6.9	20.3
3 12	11 47.70	+22 3.6	2.016	2.973	6.3	20.3
3 22	11 37.78	+22 32.3	2.026	2.963	7.9	20.4
4 1	11 28.45	+22 39.5	2.062	2.953	10.5	20.5
4 11	11 20.61	+22 24.6	2.122	2.943	13.2	20.6
4 21	11 14.85	+21 49.3	2.203	2.932	15.6	20.8

502037 2015 AH_{129} 3 15.9 184°.21 1°.6/14.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.66	+ 4 1.5	2.203	3.037	11.7	22.5
2 21	12 1.69	+ 4 50.7	2.124	3.037	8.6	22.3
3 2	11 54.94	+ 5 48.6	2.071	3.037	5.1	22.1
3 12	11 47.04	+ 6 49.6	2.046	3.036	1.9	21.9
3 22	11 38.77	+ 7 47.9	2.051	3.035	3.5	22.0
4 1	11 30.98	+ 8 37.6	2.085	3.034	7.1	22.2
4 11	11 24.46	+ 9 14.5	2.145	3.032	10.5	22.4
4 21	11 19.72	+ 9 36.5	2.228	3.029	13.4	22.6

170035 2002 VG_{28} 3 15.9 86°.36 1°.2/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.23	− 4 28.9	2.226	3.035	12.5	20.5
2 21	12 0.52	− 4 4.7	2.156	3.050	9.4	20.3
3 2	11 54.17	− 3 27.1	2.111	3.066	6.0	20.1
3 12	11 46.79	− 2 39.5	2.094	3.082	2.4	19.9
3 22	11 39.16	− 1 46.6	2.105	3.097	2.2	19.9
4 1	11 32.08	− 0 54.0	2.146	3.112	5.7	20.2
4 11	11 26.24	− 0 6.8	2.214	3.127	9.0	20.4
4 21	11 22.11	+ 0 31.1	2.306	3.142	11.9	20.6

106194 2000 UF_{15} 3 15.9 197°.76 0°.2/16.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.03	− 1 12.3	2.052	2.868	13.1	20.6
2 21	12 4.36	− 0 43.5	1.964	2.865	9.9	20.4
3 2	11 56.65	− 0 1.7	1.900	2.860	6.0	20.1
3 12	11 47.56	+ 0 48.9	1.865	2.856	1.8	19.9
3 22	11 37.97	+ 1 42.9	1.859	2.850	2.6	19.9
4 1	11 28.88	+ 2 34.2	1.882	2.843	6.8	20.2
4 11	11 21.18	+ 3 17.1	1.933	2.836	10.6	20.4
4 21	11 15.51	+ 3 48.0	2.007	2.828	14.0	20.6

68572 2001 YQ_{19} 3 15.9 316°.29 5°.2/19.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.19	− 9 42.8	1.299	2.119	19.0	19.0
2 21	12 2.74	−10 13.3	1.208	2.100	15.4	18.7
3 2	11 56.30	−10 19.8	1.137	2.082	11.0	18.4
3 12	11 47.59	−10 1.4	1.087	2.065	6.7	18.1
3 22	11 37.80	− 9 21.0	1.061	2.048	5.4	17.9
4 1	11 28.50	− 8 25.5	1.060	2.032	9.1	18.1
4 11	11 21.18	− 7 25.5	1.081	2.016	14.0	18.3
4 21	11 16.85	− 6 30.9	1.121	2.001	18.6	18.5

25924 Douglasadams 3 15.9 292°.89 1°.0/16.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 7.18	− 2 37.3	1.544	2.376	15.9	19.4
2 21	12 2.99	− 2 23.0	1.450	2.358	12.2	19.1
3 2	11 56.20	− 1 50.9	1.377	2.339	7.7	18.8
3 12	11 47.50	− 1 4.7	1.330	2.320	2.7	18.4
3 22	11 37.97	− 0 10.4	1.309	2.302	3.0	18.4
4 1	11 28.90	+ 0 44.0	1.315	2.283	8.2	18.7
4 11	11 21.52	+ 1 30.6	1.345	2.265	13.1	18.9
4 21	11 16.69	+ 2 3.4	1.396	2.247	17.4	19.1

163856 2003 SP_{90} 3 15.9 166°.90 3°.4/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.71	+ 8 58.2	1.863	2.706	13.1	20.1
2 21	12 4.93	+ 9 49.8	1.793	2.711	9.6	19.9
3 2	11 56.98	+10 46.4	1.749	2.714	5.9	19.6
3 12	11 47.64	+11 40.9	1.732	2.717	3.5	19.5
3 22	11 37.89	+12 26.3	1.744	2.719	5.4	19.6
4 1	11 28.84	+12 57.0	1.784	2.721	9.0	19.8
4 11	11 21.40	+13 9.9	1.849	2.723	12.5	20.1
4 21	11 16.17	+13 4.5	1.935	2.723	15.6	20.3

226716 2004 PL_{19} 3 15.9 187°.48 1°.1/17.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.98	− 2 53.5	2.215	3.023	12.6	20.7
2 21	12 3.43	− 2 47.4	2.129	3.023	9.5	20.5
3 2	11 56.01	− 2 29.3	2.067	3.022	6.0	20.3
3 12	11 47.36	− 2 2.1	2.033	3.021	2.3	20.0
3 22	11 38.29	− 1 29.6	2.028	3.020	2.3	20.0
4 1	11 29.69	− 0 56.6	2.053	3.017	6.0	20.2
4 11	11 22.37	− 0 27.6	2.105	3.015	9.6	20.4
4 21	11 16.92	− 0 6.5	2.182	3.012	12.7	20.6

83526 2001 SV_{149} 3 15.9 268°.31 1°.2/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.25	− 2 54.8	2.285	3.095	12.2	19.2
2 21	12 2.18	− 2 55.7	2.188	3.083	9.3	19.0
3 2	11 55.30	− 2 45.4	2.116	3.072	5.9	18.7
3 12	11 47.17	− 2 26.2	2.072	3.060	2.4	18.5
3 22	11 38.55	− 2 1.3	2.057	3.048	2.3	18.4
4 1	11 30.30	− 1 35.1	2.071	3.036	5.9	18.7
4 11	11 23.23	− 1 11.9	2.112	3.024	9.4	18.9
4 21	11 17.93	− 0 55.4	2.178	3.012	12.5	19.0

73586 4141 T_{-1} 3 15.9 37°.37 1°.3/15.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.70	+ 1 38.0	1.230	2.088	17.5	19.3
2 21	12 2.65	+ 2 18.3	1.177	2.101	12.9	19.0
3 2	11 55.85	+ 3 14.1	1.145	2.115	7.6	18.8
3 12	11 47.33	+ 4 17.4	1.137	2.129	2.2	18.5
3 22	11 38.42	+ 5 18.6	1.155	2.145	4.2	18.6
4 1	11 30.54	+ 6 8.5	1.197	2.160	9.5	19.0
4 11	11 24.81	+ 6 40.6	1.262	2.177	14.2	19.3
4 21	11 21.84	+ 6 52.6	1.346	2.194	18.1	19.6

185424 2006 XJ_{5} 3 15.9 103°.95 6°.0/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 13.09	+17 46.5	1.943	2.787	12.6	20.1
2 21	12 6.40	+18 46.9	1.899	2.810	9.6	20.0
3 2	11 57.68	+19 42.9	1.880	2.831	7.0	19.8
3 12	11 47.79	+20 26.7	1.890	2.852	6.1	19.8
3 22	11 37.77	+20 52.4	1.927	2.873	7.6	20.0
4 1	11 28.65	+20 57.0	1.992	2.893	10.3	20.2
4 11	11 21.27	+20 40.5	2.080	2.912	13.0	20.4
4 21	11 16.11	+20 5.2	2.189	2.931	15.4	20.6

76585 2000 GA_{140} 3 15.9 79°.37 5°.0/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.77	+15 11.0	2.068	2.918	11.7	18.9
2 21	12 2.54	+16 4.5	2.008	2.925	8.8	18.7
3 2	11 55.43	+16 56.9	1.975	2.932	6.1	18.6
3 12	11 47.17	+17 41.2	1.968	2.939	5.0	18.5
3 22	11 38.64	+18 11.6	1.990	2.946	6.6	18.6
4 1	11 30.76	+18 24.3	2.038	2.953	9.4	18.8
4 11	11 24.34	+18 17.9	2.111	2.960	12.2	19.0
4 21	11 19.86	+17 53.4	2.205	2.967	14.7	19.2

28031 1998 DX_{17} 3 15.9 149°.32 1°.6/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 6.98	+ 3 45.9	1.978	2.816	12.7	18.7
2 21	12 2.08	+ 4 27.8	1.905	2.819	9.3	18.5
3 2	11 55.23	+ 5 18.8	1.856	2.822	5.5	18.2
3 12	11 47.14	+ 6 13.3	1.834	2.825	1.9	18.0
3 22	11 38.67	+ 7 5.1	1.842	2.828	3.6	18.1
4 1	11 30.78	+ 7 48.3	1.878	2.830	7.5	18.4
4 11	11 24.30	+ 8 18.4	1.939	2.833	11.1	18.6
4 21	11 19.79	+ 8 33.4	2.023	2.835	14.2	18.8

110346 2001 SJ_{297} 3 15.9 116°.04 0°.7/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 2.86	− 4 27.6	2.323	3.134	12.0	20.4
2 21	11 58.80	− 3 38.7	2.244	3.140	9.0	20.2
3 2	11 53.16	− 2 35.3	2.189	3.146	5.6	20.0
3 12	11 46.53	− 1 21.8	2.163	3.152	2.0	19.8
3 22	11 39.59	− 0 3.5	2.166	3.158	2.1	19.8
4 1	11 33.10	+ 1 13.0	2.199	3.163	5.7	20.1
4 11	11 27.74	+ 2 22.0	2.259	3.169	9.0	20.3
4 21	11 23.99	+ 3 19.1	2.344	3.174	11.9	20.5

423111 2004 BT_{54} 3 15.9 111°.70 1°.6/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 6.26	+ 4 53.7	2.423	3.255	10.8	21.5
2 21	12 1.13	+ 5 37.3	2.359	3.272	7.9	21.3
3 2	11 54.47	+ 6 27.0	2.322	3.288	4.6	21.1
3 12	11 46.88	+ 7 18.1	2.314	3.304	1.8	20.9
3 22	11 39.09	+ 8 5.4	2.336	3.320	3.3	21.1
4 1	11 31.83	+ 8 44.5	2.388	3.335	6.4	21.3
4 11	11 25.76	+ 9 12.2	2.466	3.351	9.4	21.5
4 21	11 21.30	+ 9 26.9	2.568	3.365	11.9	21.7

492638 2014 OB_{336} 3 15.9 218°.92 4°.0/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.76	+ 8 57.6	1.737	2.586	13.6	21.7
2 21	12 4.52	+10 6.6	1.659	2.579	10.1	21.5
3 2	11 56.90	+11 22.9	1.605	2.571	6.3	21.3
3 12	11 47.67	+12 38.0	1.579	2.562	4.0	21.1
3 22	11 37.86	+13 43.2	1.581	2.553	6.1	21.2
4 1	11 28.65	+14 31.2	1.609	2.544	10.0	21.4
4 11	11 21.11	+14 57.6	1.663	2.534	13.9	21.6
4 21	11 15.92	+15 1.8	1.736	2.523	17.2	21.8

256189 2006 VD_{80} 3 15.9 151°.54 2°.2/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.07	+ 4 34.7	1.719	2.565	13.9	20.9
2 21	12 2.42	+ 5 27.2	1.647	2.566	10.2	20.7
3 2	11 55.56	+ 6 30.0	1.599	2.567	6.0	20.4
3 12	11 47.26	+ 7 36.0	1.578	2.568	2.4	20.2
3 22	11 38.51	+ 8 37.6	1.584	2.569	4.4	20.3
4 1	11 30.41	+ 9 27.4	1.618	2.569	8.6	20.6
4 11	11 23.92	+10 0.6	1.677	2.570	12.6	20.8
4 21	11 19.66	+10 15.0	1.757	2.571	15.9	21.0

179854 2002 TT_{258} 3 15.9 111°.54 0°.9/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.23	+ 0 46.4	1.793	2.627	14.0	19.9
2 21	12 2.38	+ 1 36.6	1.726	2.638	10.3	19.6
3 2	11 55.45	+ 2 39.8	1.683	2.649	6.1	19.4
3 12	11 47.22	+ 3 49.6	1.668	2.659	1.7	19.1
3 22	11 38.64	+ 4 58.8	1.681	2.670	3.3	19.3
4 1	11 30.74	+ 6 0.1	1.722	2.680	7.6	19.6
4 11	11 24.40	+ 6 47.7	1.788	2.689	11.5	19.8
4 21	11 20.19	+ 7 18.6	1.877	2.699	14.8	20.0

19118 1981 SD_{2} 3 15.9 143°.68 2°.6/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 11.23	+ 6 30.6	1.784	2.625	13.7	17.7
2 21	12 5.36	+ 7 12.0	1.717	2.633	10.0	17.5
3 2	11 57.26	+ 8 0.5	1.675	2.641	6.0	17.3
3 12	11 47.75	+ 8 49.3	1.660	2.648	2.7	17.1
3 22	11 37.86	+ 9 31.8	1.673	2.655	4.6	17.2
4 1	11 28.71	+10 2.1	1.714	2.661	8.6	17.5
4 11	11 21.26	+10 16.7	1.781	2.667	12.3	17.7
4 21	11 16.10	+10 14.5	1.869	2.672	15.5	17.9

167373 2003 WM_{64} 3 15.9 53°.11 0°.1/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.30	− 0 29.7	1.926	2.756	13.3	20.0
2 21	12 0.86	− 0 0.0	1.855	2.764	9.9	19.8
3 2	11 54.51	+ 0 42.0	1.808	2.772	6.0	19.6
3 12	11 46.95	+ 1 31.8	1.788	2.780	1.7	19.3
3 22	11 39.05	+ 2 23.5	1.797	2.788	2.6	19.4
4 1	11 31.73	+ 3 11.1	1.833	2.796	6.7	19.7
4 11	11 25.83	+ 3 49.3	1.896	2.805	10.5	19.9
4 21	11 21.88	+ 4 14.7	1.981	2.813	13.7	20.1

362013 2008 WX_{120} 3 15.9 53°.01 3°.6/18.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.98	− 7 50.9	1.330	2.151	18.6	21.1
2 21	12 4.34	− 7 59.3	1.266	2.162	14.5	20.9
3 2	11 56.93	− 7 44.2	1.222	2.173	9.8	20.7
3 12	11 47.69	− 7 8.0	1.201	2.184	5.2	20.4
3 22	11 37.94	− 6 16.7	1.205	2.195	4.0	20.4
4 1	11 29.08	− 5 18.7	1.235	2.207	8.1	20.6
4 11	11 22.34	− 4 23.6	1.289	2.219	12.7	20.9
4 21	11 18.39	− 3 38.7	1.364	2.231	16.8	21.2

500623 2012 UE_{154} 3 15.9 56°.86 0°.4/15.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.25	+ 0 47.8	2.071	2.901	12.5	21.5
2 21	12 0.63	+ 1 17.0	2.008	2.918	9.2	21.4
3 2	11 54.27	+ 1 56.4	1.970	2.934	5.5	21.2
3 12	11 46.86	+ 2 41.3	1.960	2.951	1.5	20.9
3 22	11 39.21	+ 3 26.4	1.978	2.968	2.6	21.0
4 1	11 32.15	+ 4 6.5	2.025	2.985	6.4	21.3
4 11	11 26.44	+ 4 37.2	2.098	3.002	9.8	21.5
4 21	11 22.53	+ 4 56.0	2.194	3.020	12.8	21.8

366440 2001 XM_{96} 3 15.9 129°.46 7°.6/25.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 8.21	−24 33.5	2.269	2.959	15.6	20.9
2 21	12 2.96	−24 57.3	2.187	2.973	13.5	20.7
3 2	11 55.78	−24 56.1	2.124	2.986	11.2	20.6
3 12	11 47.33	−24 28.7	2.085	2.998	9.0	20.5
3 22	11 38.47	−23 36.6	2.072	3.010	7.7	20.4
4 1	11 30.16	−22 24.3	2.086	3.022	8.0	20.5
4 11	11 23.24	−20 59.3	2.127	3.033	9.7	20.6
4 21	11 18.26	−19 29.8	2.192	3.043	11.9	20.7

118649 2000 JM_{32} 3 15.9 230°.53 5°.7/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 10.90	+17 41.0	2.192	3.035	11.4	20.4
2 21	12 4.97	+18 41.9	2.113	3.023	8.8	20.2
3 2	11 57.01	+19 40.9	2.060	3.010	6.5	20.1
3 12	11 47.70	+20 30.6	2.035	2.997	5.8	20.0
3 22	11 37.91	+21 4.6	2.039	2.983	7.4	20.1
4 1	11 28.65	+21 18.6	2.070	2.968	10.1	20.2
4 11	11 20.80	+21 11.3	2.125	2.953	12.9	20.3
4 21	11 14.97	+20 43.7	2.202	2.937	15.5	20.5

333840 2012 MT_{6} 3 15.9 291°.42 11°.9/26.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 7.30	−29 47.5	1.941	2.609	18.6	21.1
2 21	12 3.19	−30 56.1	1.825	2.581	16.9	20.9
3 2	11 56.46	−31 37.6	1.726	2.552	15.0	20.7
3 12	11 47.68	−31 45.8	1.646	2.523	13.2	20.5
3 22	11 37.77	−31 17.4	1.588	2.493	12.0	20.3
4 1	11 28.01	−30 13.0	1.553	2.464	12.1	20.2
4 11	11 19.72	−28 39.4	1.542	2.434	13.5	20.3
4 21	11 13.89	−26 47.0	1.552	2.404	15.8	20.3

310924 2003 SZ_{166} 3 15.9 167°.85 1°.4/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 10.76	+ 3 46.1	2.061	2.889	12.6	21.0
2 21	12 4.80	+ 4 23.5	1.985	2.895	9.3	20.8
3 2	11 56.86	+ 5 9.5	1.934	2.899	5.5	20.6
3 12	11 47.64	+ 5 58.9	1.912	2.903	1.8	20.3
3 22	11 38.04	+ 6 45.6	1.920	2.906	3.4	20.5
4 1	11 29.03	+ 7 24.3	1.957	2.909	7.3	20.7
4 11	11 21.48	+ 7 50.8	2.021	2.910	10.9	20.9
4 21	11 15.94	+ 8 3.1	2.107	2.911	14.0	21.1

419174 2009 TA_{31} 3 15.9 65°.90 3°.1/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.86	− 8 34.4	1.765	2.562	15.7	21.6
2 21	12 4.19	− 8 32.3	1.712	2.594	12.2	21.5
3 2	11 56.44	− 8 11.2	1.681	2.626	8.2	21.3
3 12	11 47.49	− 7 33.8	1.677	2.657	4.4	21.1
3 22	11 38.34	− 6 45.4	1.700	2.688	3.4	21.1
4 1	11 30.06	− 5 52.5	1.751	2.719	6.5	21.4
4 11	11 23.48	− 5 2.1	1.829	2.750	10.1	21.7
4 21	11 19.10	− 4 19.5	1.930	2.780	13.3	21.9

472777 2015 FS_{142} 3 15.9 274°.32 0°.1/16.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 4.66	− 0 51.9	2.363	3.183	11.5	22.0
2 21	12 0.29	− 0 21.0	2.259	3.162	8.6	21.8
3 2	11 54.20	+ 0 21.6	2.179	3.141	5.3	21.5
3 12	11 46.90	+ 1 12.3	2.128	3.119	1.6	21.2
3 22	11 39.09	+ 2 6.5	2.106	3.097	2.3	21.2
4 1	11 31.58	+ 2 58.8	2.113	3.074	6.1	21.4
4 11	11 25.13	+ 3 44.0	2.147	3.052	9.7	21.6
4 21	11 20.33	+ 4 18.3	2.206	3.029	12.8	21.8

97513 2000 CD_{137} 3 15.9 215°.50 1°.3/14.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.37	+ 3 19.1	2.208	3.042	11.7	20.1
2 21	12 0.78	+ 4 2.6	2.126	3.039	8.6	19.9
3 2	11 54.44	+ 4 55.1	2.069	3.035	5.1	19.7
3 12	11 46.95	+ 5 51.5	2.041	3.032	1.7	19.5
3 22	11 39.07	+ 6 46.3	2.041	3.028	3.3	19.6
4 1	11 31.65	+ 7 33.7	2.071	3.024	6.9	19.8
4 11	11 25.45	+ 8 9.4	2.127	3.019	10.3	20.0
4 21	11 21.00	+ 8 31.0	2.206	3.015	13.3	20.2

255687 2006 QS_{58} 3 15.9 169°.43 3°.9/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.46	+10 6.3	1.938	2.783	12.6	21.1
2 21	12 3.96	+11 9.6	1.869	2.787	9.2	20.9
3 2	11 56.40	+12 17.4	1.826	2.790	5.8	20.7
3 12	11 47.52	+13 21.9	1.811	2.793	3.9	20.6
3 22	11 38.25	+14 16.0	1.824	2.795	5.8	20.7
4 1	11 29.62	+14 53.9	1.866	2.796	9.2	20.9
4 11	11 22.52	+15 12.6	1.932	2.797	12.5	21.1
4 21	11 17.52	+15 11.9	2.019	2.797	15.4	21.3

125496 2001 WF_{29} 3 16.0 93°.57 8°.6/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 9.54	+23 31.9	1.798	2.650	13.1	20.2
2 21	12 4.18	+25 3.4	1.753	2.658	10.6	20.0
3 2	11 56.55	+26 26.1	1.734	2.667	8.9	19.9
3 12	11 47.55	+27 29.9	1.740	2.676	8.9	19.9
3 22	11 38.27	+28 7.8	1.772	2.685	10.5	20.1
4 1	11 29.84	+28 16.4	1.828	2.693	12.9	20.2
4 11	11 23.21	+27 56.7	1.905	2.701	15.4	20.4
4 21	11 18.91	+27 12.3	2.000	2.710	17.6	20.6

429614 2011 FK_{19} 3 16.0 312°.54 2°.5/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 5.19	+ 5 45.5	1.858	2.706	12.9	20.8
2 21	12 0.94	+ 6 40.3	1.782	2.702	9.5	20.5
3 2	11 54.66	+ 7 43.8	1.731	2.699	5.6	20.3
3 12	11 47.04	+ 8 49.4	1.706	2.695	2.6	20.1
3 22	11 38.97	+ 9 49.9	1.710	2.692	4.6	20.2
4 1	11 31.46	+10 38.4	1.741	2.688	8.4	20.4
4 11	11 25.39	+11 10.4	1.797	2.685	12.1	20.6
4 21	11 21.36	+11 24.0	1.874	2.682	15.3	20.9