458968 2011 WK_{17} 3 7.9 156°.39 4°.2/ 4.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 42.52	+13 37.4	1.869	2.695	13.7	21.7
2 11	11 37.20	+14 42.1	1.799	2.702	10.4	21.5
2 21	11 29.55	+15 52.0	1.755	2.709	6.8	21.3
3 2	11 20.27	+16 59.0	1.737	2.715	4.3	21.2
3 12	11 10.39	+17 55.1	1.749	2.720	5.5	21.2
3 22	11 1.01	+18 34.2	1.788	2.725	8.9	21.4
4 1	10 53.14	+18 53.1	1.853	2.729	12.3	21.7
4 11	10 47.48	+18 51.5	1.940	2.732	15.3	21.9

397830 2008 SE_{157} 3 7.9 165°.34 1°.3/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.29	− 1 46.8	1.779	2.570	15.8	22.4
2 11	11 36.41	− 1 17.7	1.696	2.575	12.3	22.1
2 21	11 29.14	− 0 29.9	1.636	2.580	8.2	21.9
3 2	11 20.15	+ 0 32.8	1.602	2.584	3.7	21.6
3 12	11 10.46	+ 1 44.2	1.596	2.587	1.9	21.5
3 22	11 1.16	+ 2 56.3	1.619	2.590	6.3	21.8
4 1	10 53.33	+ 4 1.5	1.669	2.592	10.6	22.1
4 11	10 47.73	+ 4 54.1	1.743	2.593	14.4	22.3

318667 2005 ON_{9} 3 7.9 241°.45 1°.6/ 6.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.54	+ 6 43.0	1.917	2.734	13.8	20.9
2 11	11 35.04	+ 7 19.8	1.827	2.725	10.5	20.7
2 21	11 28.28	+ 8 7.4	1.759	2.715	6.6	20.4
3 2	11 19.84	+ 9 0.7	1.719	2.705	2.6	20.1
3 12	11 10.66	+ 9 53.0	1.707	2.695	2.9	20.1
3 22	11 1.75	+10 37.9	1.724	2.684	7.1	20.4
4 1	10 54.14	+11 10.2	1.768	2.673	11.1	20.6
4 11	10 48.59	+11 26.9	1.834	2.662	14.7	20.8

411659 2011 WL_{19} 3 7.9 116°.64 3°.8/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.52	− 6 54.7	1.653	2.431	17.3	21.7
2 11	11 35.23	− 6 55.5	1.574	2.438	14.0	21.5
2 21	11 28.48	− 6 33.9	1.515	2.445	10.0	21.3
3 2	11 19.92	− 5 51.0	1.480	2.451	5.9	21.1
3 12	11 10.63	− 4 51.7	1.472	2.457	3.8	20.9
3 22	11 1.77	− 3 43.2	1.491	2.464	6.5	21.1
4 1	10 54.45	− 2 34.1	1.537	2.469	10.6	21.4
4 11	10 49.45	− 1 32.1	1.606	2.475	14.4	21.6

31334 1998 HW_{102} 3 7.9 3°.80 0°.3/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 34.50	+ 3 15.8	1.972	2.787	13.6	18.1
2 11	11 31.04	+ 3 44.6	1.891	2.787	10.3	17.9
2 21	11 25.61	+ 4 25.9	1.833	2.787	6.6	17.6
3 2	11 18.78	+ 5 15.6	1.801	2.788	2.5	17.4
3 12	11 11.39	+ 6 7.8	1.798	2.789	1.9	17.3
3 22	11 4.33	+ 6 56.4	1.823	2.791	6.0	17.6
4 1	10 58.47	+ 7 36.2	1.874	2.793	9.8	17.8
4 11	10 54.43	+ 8 3.3	1.949	2.796	13.2	18.0

185457 2007 AN_{2} 3 7.9 313°.63 15°.2/17.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 49.72	+47 39.0	1.805	2.582	16.1	19.4
2 11	11 43.77	+49 37.6	1.777	2.580	15.4	19.4
2 21	11 34.19	+51 10.8	1.769	2.579	15.3	19.3
3 2	11 22.09	+52 6.9	1.782	2.577	15.9	19.4
3 12	11 9.25	+52 19.1	1.814	2.576	17.0	19.4
3 22	10 57.52	+51 47.2	1.863	2.574	18.3	19.5
4 1	10 48.43	+50 35.7	1.927	2.573	19.7	19.7
4 11	10 42.79	+48 52.8	2.003	2.571	21.0	19.8

111549 2001 YC_{137} 3 7.9 173°.49 5°.1/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.45	+19 45.7	2.359	3.181	11.4	20.4
2 11	11 36.74	+20 44.2	2.288	3.184	8.8	20.2
2 21	11 29.08	+21 41.8	2.243	3.187	6.4	20.1
3 2	11 20.07	+22 32.0	2.227	3.189	5.1	20.0
3 12	11 10.56	+23 8.4	2.240	3.190	6.2	20.1
3 22	11 1.47	+23 27.3	2.281	3.191	8.6	20.2
4 1	10 53.62	+23 27.1	2.348	3.191	11.2	20.4
4 11	10 47.64	+23 8.5	2.437	3.191	13.6	20.5

500033 2011 SS_{75} 3 7.9 176°.99 1°.8/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.16	− 3 22.7	2.861	3.627	11.0	22.0
2 11	11 31.68	− 3 15.7	2.767	3.629	8.7	21.8
2 21	11 25.75	− 2 57.0	2.697	3.630	6.0	21.6
3 2	11 18.79	− 2 28.2	2.654	3.630	3.2	21.4
3 12	11 11.41	− 1 52.3	2.642	3.631	1.9	21.3
3 22	11 4.23	− 1 13.0	2.660	3.631	4.2	21.5
4 1	10 57.89	− 0 34.1	2.708	3.631	7.0	21.7
4 11	10 52.87	+ 0 0.6	2.781	3.630	9.6	21.9

192105 2006 CL_{18} 3 7.9 23°.91 0°.5/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.41	+ 4 33.5	1.841	2.656	14.4	20.3
2 11	11 34.14	+ 4 53.5	1.762	2.658	10.9	20.0
2 21	11 27.65	+ 5 25.0	1.705	2.660	6.9	19.8
3 2	11 19.58	+ 6 3.8	1.675	2.662	2.6	19.5
3 12	11 10.89	+ 6 44.1	1.673	2.664	2.1	19.5
3 22	11 2.59	+ 7 19.8	1.699	2.666	6.5	19.8
4 1	10 55.66	+ 7 46.2	1.752	2.669	10.5	20.0
4 11	10 50.79	+ 7 59.8	1.827	2.671	14.0	20.2

207410 2006 BC_{252} 3 7.9 134°.33 1°.1/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.09	+ 4 4.8	1.723	2.536	15.3	21.2
2 11	11 36.23	+ 4 56.9	1.652	2.548	11.6	21.0
2 21	11 28.99	+ 6 3.4	1.604	2.559	7.3	20.8
3 2	11 20.09	+ 7 18.1	1.583	2.570	2.7	20.5
3 12	11 10.57	+ 8 32.5	1.590	2.580	2.7	20.6
3 22	11 1.56	+ 9 38.8	1.626	2.589	7.2	20.8
4 1	10 54.10	+10 30.7	1.689	2.598	11.4	21.1
4 11	10 48.90	+11 4.9	1.774	2.606	14.9	21.4

460119 2014 PV_{29} 3 7.9 134°.37 1°.0/ 7.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.84	+ 4 36.4	1.946	2.754	14.0	21.8
2 11	11 35.77	+ 5 20.9	1.874	2.767	10.6	21.6
2 21	11 28.57	+ 6 17.3	1.826	2.780	6.6	21.4
3 2	11 19.90	+ 7 20.2	1.805	2.792	2.4	21.2
3 12	11 10.71	+ 8 22.7	1.814	2.803	2.4	21.2
3 22	11 1.97	+ 9 18.3	1.851	2.813	6.5	21.5
4 1	10 54.62	+10 1.8	1.916	2.823	10.3	21.7
4 11	10 49.28	+10 30.3	2.005	2.833	13.6	22.0

498794 2008 UK_{206} 3 7.9 133°.40 0°.6/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.05	+ 3 2.4	2.327	3.129	12.2	21.4
2 11	11 31.87	+ 3 56.2	2.249	3.139	9.2	21.3
2 21	11 25.98	+ 5 1.8	2.196	3.148	5.8	21.1
3 2	11 18.90	+ 6 14.4	2.171	3.157	2.1	20.8
3 12	11 11.37	+ 7 28.2	2.176	3.165	1.9	20.8
3 22	11 4.17	+ 8 36.9	2.211	3.174	5.5	21.1
4 1	10 58.02	+ 9 35.6	2.274	3.181	8.9	21.3
4 11	10 53.48	+10 20.6	2.361	3.189	11.8	21.5

61487 2000 QB_{43} 3 8.0 285°.62 0°.9/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.45	+ 0 7.4	1.807	2.611	15.1	19.9
2 11	11 33.57	+ 0 25.1	1.716	2.603	11.7	19.7
2 21	11 27.41	+ 0 58.9	1.647	2.596	7.7	19.4
3 2	11 19.55	+ 1 45.8	1.604	2.588	3.3	19.1
3 12	11 10.91	+ 2 40.0	1.589	2.581	1.8	19.0
3 22	11 2.56	+ 3 34.8	1.602	2.573	6.2	19.3
4 1	10 55.53	+ 4 23.5	1.641	2.566	10.6	19.5
4 11	10 50.59	+ 5 0.8	1.703	2.559	14.3	19.7

11834 1985 RQ_{3} 3 8.0 271°.59 0°.6/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.91	+ 2 34.8	2.155	2.960	12.9	18.9
2 11	11 32.18	+ 3 30.3	2.045	2.936	9.9	18.6
2 21	11 26.45	+ 4 41.2	1.959	2.912	6.3	18.4
3 2	11 19.19	+ 6 3.1	1.901	2.888	2.3	18.1
3 12	11 11.14	+ 7 29.5	1.873	2.863	2.1	18.0
3 22	11 3.19	+ 8 52.9	1.874	2.837	6.3	18.2
4 1	10 56.25	+10 6.3	1.903	2.812	10.3	18.4
4 11	10 51.05	+11 4.5	1.955	2.786	13.8	18.6

271111 2003 RH_{17} 3 8.0 265°.77 0°.9/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.54	+ 1 8.0	2.063	2.859	13.7	21.0
2 11	11 34.90	+ 1 8.4	1.966	2.849	10.7	20.8
2 21	11 28.14	+ 1 20.9	1.892	2.839	7.1	20.6
3 2	11 19.81	+ 1 43.3	1.845	2.829	3.1	20.3
3 12	11 10.75	+ 2 11.4	1.827	2.818	1.7	20.2
3 22	11 1.93	+ 2 40.6	1.838	2.808	5.7	20.4
4 1	10 54.28	+ 3 5.9	1.876	2.798	9.7	20.6
4 11	10 48.55	+ 3 23.4	1.938	2.787	13.1	20.8

4890 Shikanosima 3 8.0 254°.47 2°.5/ 6.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.59	+ 7 12.1	1.550	2.379	16.0	17.3
2 11	11 36.45	+ 8 5.1	1.460	2.365	12.2	17.0
2 21	11 29.53	+ 9 12.7	1.392	2.351	7.7	16.7
3 2	11 20.44	+10 27.9	1.350	2.336	3.3	16.4
3 12	11 10.31	+11 41.3	1.335	2.320	4.1	16.4
3 22	11 0.45	+12 43.4	1.347	2.305	8.9	16.7
4 1	10 52.17	+13 27.1	1.383	2.289	13.6	16.9
4 11	10 46.46	+13 48.9	1.441	2.272	17.8	17.1

234987 2003 AJ_{82} 3 8.0 43°.80 20°.3/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 48.59	+46 58.8	1.116	1.933	21.6	18.6
2 11	11 44.06	+49 41.3	1.118	1.952	20.6	18.6
2 21	11 34.73	+51 42.4	1.136	1.971	20.4	18.7
3 2	11 22.29	+52 47.3	1.171	1.991	21.0	18.8
3 12	11 9.37	+52 50.1	1.221	2.012	22.1	18.9
3 22	10 58.48	+51 55.3	1.285	2.034	23.5	19.1
4 1	10 51.25	+50 13.1	1.362	2.056	24.8	19.3
4 11	10 48.23	+47 56.4	1.449	2.078	26.0	19.5

272709 2005 YZ_{27} 3 8.0 64°.19 0°.3/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.00	+ 3 27.4	1.749	2.563	15.1	21.2
2 11	11 34.55	+ 3 53.5	1.684	2.579	11.4	21.0
2 21	11 27.87	+ 4 32.5	1.642	2.595	7.2	20.8
3 2	11 19.67	+ 5 19.7	1.625	2.612	2.7	20.5
3 12	11 10.96	+ 6 8.5	1.637	2.628	2.0	20.5
3 22	11 2.79	+ 6 52.5	1.677	2.644	6.5	20.8
4 1	10 56.10	+ 7 26.5	1.743	2.661	10.5	21.1
4 11	10 51.56	+ 7 47.1	1.831	2.677	13.9	21.3

218763 2005 VW_{123} 3 8.0 178°.86 1°.6/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.63	− 1 9.8	2.331	3.106	13.0	20.5
2 11	11 36.16	− 1 12.0	2.238	3.108	10.2	20.3
2 21	11 28.78	− 1 2.0	2.170	3.109	6.9	20.1
3 2	11 20.02	− 0 41.7	2.130	3.110	3.3	19.8
3 12	11 10.69	− 0 14.3	2.119	3.110	1.9	19.7
3 22	11 1.63	+ 0 15.8	2.139	3.109	5.1	19.9
4 1	10 53.69	+ 0 44.4	2.188	3.108	8.6	20.1
4 11	10 47.50	+ 1 7.4	2.261	3.106	11.7	20.3

244600 2002 XX_{118} 3 8.0 332°.96 3°.2/11.5 17

2 1	11 34.88	− 7 26.3	2.202	2.967	14.0	21.1
2 11	11 31.21	− 7 17.7	2.110	2.966	11.3	20.9
2 21	11 25.70	− 6 50.9	2.040	2.965	8.1	20.7
3 2	11 18.86	− 6 7.2	1.995	2.964	4.9	20.5
3 12	11 11.45	− 5 10.3	1.979	2.963	3.2	20.4
3 22	11 4.30	− 4 5.6	1.991	2.962	5.2	20.5
4 1	10 58.21	− 2 59.5	2.031	2.962	8.5	20.7
4 11	10 53.80	− 1 58.1	2.096	2.961	11.6	20.9

59483 1999 HN_{11} 3 8.0 244°.87 3°.4/11.8 18

2 1	11 37.04	− 8 56.4	2.381	3.128	13.5	19.9
2 11	11 32.85	− 8 39.5	2.266	3.110	11.0	19.7
2 21	11 26.80	− 8 3.5	2.173	3.091	8.1	19.5
3 2	11 19.31	− 7 9.1	2.107	3.072	5.1	19.3
3 12	11 11.12	− 5 59.6	2.069	3.052	3.4	19.1
3 22	11 3.03	− 4 40.3	2.061	3.031	5.3	19.2
4 1	10 55.88	− 3 17.9	2.082	3.010	8.5	19.4
4 11	10 50.34	− 1 59.4	2.129	2.988	11.8	19.5

402956 2007 TP_{388} 3 8.0 75°.70 1°.6/ 6.7 18

2 1	11 41.31	+ 5 54.9	1.487	2.314	16.6	21.8
2 11	11 36.62	+ 6 36.7	1.429	2.332	12.5	21.6
2 21	11 29.32	+ 7 31.3	1.392	2.350	7.8	21.3
3 2	11 20.24	+ 8 31.9	1.381	2.368	3.0	21.1
3 12	11 10.59	+ 9 29.9	1.398	2.386	3.2	21.1
3 22	11 1.65	+10 17.6	1.441	2.404	7.9	21.5
4 1	10 54.51	+10 49.6	1.509	2.421	12.2	21.7
4 11	10 49.88	+11 3.5	1.598	2.439	15.9	22.0

10411 1997 XO_{11} 3 8.0 239°.35 4°.1/11.4 18

2 1	11 39.89	− 7 24.3	1.745	2.516	16.8	18.6
2 11	11 35.64	− 7 30.6	1.647	2.506	13.7	18.4
2 21	11 28.88	− 7 15.2	1.569	2.496	10.0	18.1
3 2	11 20.19	− 6 38.2	1.516	2.485	6.1	17.9
3 12	11 10.54	− 5 43.2	1.489	2.474	4.1	17.7
3 22	11 1.10	− 4 36.5	1.490	2.462	6.6	17.8
4 1	10 53.03	− 3 26.5	1.518	2.450	10.8	18.0
4 11	10 47.24	− 2 21.4	1.569	2.437	14.7	18.2

312000 2007 OB_4 3 8.0 199°.52 1°.3/ 9.2 17

2 1	11 41.41	− 1 27.3	2.101	2.882	14.0	22.4
2 11	11 36.27	− 1 6.2	2.004	2.878	11.0	22.2
2 21	11 29.00	− 0 29.5	1.932	2.873	7.3	22.0
3 2	11 20.15	+ 0 20.0	1.886	2.867	3.4	21.7
3 12	11 10.59	+ 1 17.4	1.870	2.861	1.8	21.6
3 22	11 1.29	+ 2 16.6	1.883	2.853	5.6	21.8
4 1	10 53.18	+ 3 11.5	1.925	2.845	9.6	22.0
4 11	10 47.00	+ 3 56.9	1.992	2.836	13.1	22.2

426744 2013 TA_{84} 3 8.0 103°.52 0°.6/ 7.5 17

2 1	11 39.57	+ 5 7.5	1.998	2.808	13.6	21.2
2 11	11 34.84	+ 5 24.8	1.918	2.812	10.3	21.0
2 21	11 28.03	+ 5 52.0	1.862	2.816	6.5	20.8
3 2	11 19.75	+ 6 25.2	1.833	2.819	2.4	20.5
3 12	11 10.89	+ 6 59.2	1.833	2.823	2.0	20.5
3 22	11 2.43	+ 7 28.7	1.861	2.827	6.2	20.8
4 1	10 55.25	+ 7 49.6	1.916	2.830	10.0	21.0
4 11	10 50.02	+ 7 58.9	1.995	2.833	13.3	21.2

305590 2008 YD_{87} 3 8.0 241°.65 3°.5/10.8 17

2 1	11 40.18	− 5 54.9	1.715	2.493	16.8	20.9
2 11	11 35.91	− 5 57.6	1.617	2.483	13.6	20.7
2 21	11 29.07	− 5 39.4	1.539	2.471	9.7	20.4
3 2	11 20.27	− 5 0.8	1.487	2.460	5.6	20.2
3 12	11 10.49	− 4 5.7	1.461	2.448	3.5	20.0
3 22	11 0.91	− 3 0.8	1.463	2.435	6.6	20.2
4 1	10 52.74	− 1 54.3	1.491	2.422	11.0	20.4
4 11	10 46.88	− 0 54.3	1.543	2.409	15.0	20.6

351561 2005 UR_{23} 3 8.0 215°.49 3°.7/ 5.4 18

2 1	11 43.81	+11 15.1	1.431	2.266	16.7	21.1
2 11	11 38.94	+11 55.0	1.357	2.265	12.7	20.9
2 21	11 31.07	+12 43.3	1.305	2.263	8.1	20.6
3 2	11 21.01	+13 32.0	1.278	2.261	4.2	20.4
3 12	11 10.05	+14 12.0	1.278	2.260	5.2	20.4
3 22	10 59.65	+14 36.0	1.304	2.258	9.7	20.7
4 1	10 51.17	+14 39.9	1.354	2.255	14.2	20.9
4 11	10 45.51	+14 23.1	1.424	2.253	18.1	21.2

466622 2014 VV_{24} 3 8.0 70°.00 1°.9/ 6.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.89	+ 7 3.1	1.713	2.539	14.8	21.5
2 11	11 34.57	+ 7 45.7	1.647	2.549	11.2	21.3
2 21	11 27.94	+ 8 39.2	1.603	2.560	7.0	21.1
3 2	11 19.72	+ 9 37.1	1.585	2.571	2.8	20.8
3 12	11 10.93	+10 32.0	1.595	2.582	3.3	20.9
3 22	11 2.67	+11 17.1	1.633	2.593	7.4	21.2
4 1	10 55.91	+11 47.5	1.697	2.604	11.4	21.4
4 11	10 51.35	+12 0.9	1.783	2.616	14.8	21.7

351658 2005 YU_{192} 3 8.0 50°.34 0°.9/ 7.4 18

2 1	11 40.33	+ 3 56.6	1.191	2.029	19.2	20.8
2 11	11 36.40	+ 4 30.3	1.138	2.046	14.6	20.6
2 21	11 29.41	+ 5 21.5	1.105	2.063	9.2	20.3
3 2	11 20.32	+ 6 23.2	1.094	2.082	3.4	20.0
3 12	11 10.56	+ 7 25.1	1.110	2.100	2.9	20.0
3 22	11 1.66	+ 8 17.6	1.150	2.119	8.5	20.4
4 1	10 54.90	+ 8 53.9	1.213	2.138	13.5	20.7
4 11	10 51.03	+ 9 10.6	1.297	2.158	17.6	21.1

340692 2006 SN 3 8.0 163°.17 4°.2/13.5 18

2 1	11 35.98	−12 37.9	2.866	3.582	12.1	21.3
2 11	11 31.62	−12 42.9	2.770	3.587	10.1	21.1
2 21	11 25.76	−12 31.8	2.696	3.591	7.8	21.0
3 2	11 18.86	−12 4.6	2.649	3.594	5.5	20.8
3 12	11 11.51	−11 23.5	2.630	3.598	4.2	20.8
3 22	11 4.38	−10 31.8	2.641	3.601	5.0	20.8
4 1	10 58.08	− 9 34.4	2.680	3.603	7.1	20.9
4 11	10 53.14	− 8 36.4	2.746	3.606	9.4	21.1

139440 2001 OW_{55} 3 8.0 71°.38 1°.2/ 8.9 18

2 1	11 45.12	+ 1 46.9	1.694	2.494	16.1	18.8
2 11	11 39.25	+ 1 27.6	1.627	2.511	12.4	18.6
2 21	11 30.89	+ 1 20.9	1.582	2.529	8.2	18.4
3 2	11 20.84	+ 1 24.3	1.563	2.547	3.6	18.1
3 12	11 10.24	+ 1 33.7	1.573	2.564	2.0	18.1
3 22	11 0.26	+ 1 44.6	1.611	2.582	6.3	18.4
4 1	10 51.98	+ 1 52.3	1.676	2.599	10.5	18.7
4 11	10 46.09	+ 1 53.4	1.764	2.617	14.1	18.9

114732 2003 HT_8 3 8.0 120°.23 2°.7/10.8 18

2 1	11 40.31	− 6 56.1	1.812	2.582	16.3	19.7
2 11	11 35.53	− 6 20.4	1.739	2.600	13.0	19.5
2 21	11 28.51	− 5 22.0	1.687	2.619	9.1	19.3
3 2	11 19.94	− 4 4.2	1.662	2.636	4.9	19.1
3 12	11 10.83	− 2 33.5	1.664	2.653	2.8	19.0
3 22	11 2.21	− 0 58.6	1.696	2.669	5.9	19.2
4 1	10 55.07	+ 0 31.8	1.756	2.684	9.8	19.5
4 11	10 50.05	+ 1 50.5	1.840	2.698	13.3	19.8

238741 2005 GX_{131} 3 8.0 144°.35 2°.0/10.6 17

2 1	11 34.85	− 5 39.9	2.558	3.322	12.3	21.0
2 11	11 30.88	− 5 6.1	2.469	3.329	9.7	20.8
2 21	11 25.33	− 4 16.4	2.405	3.336	6.7	20.6
3 2	11 18.70	− 3 13.3	2.367	3.342	3.6	20.4
3 12	11 11.64	− 2 1.2	2.360	3.348	2.0	20.3
3 22	11 4.84	− 0 45.5	2.382	3.354	4.5	20.5
4 1	10 58.96	+ 0 28.1	2.434	3.360	7.6	20.7
4 11	10 54.53	+ 1 34.4	2.512	3.365	10.4	20.9

287483 2003 BS_5 3 8.0 31°.75 1°.8/ 5.9 17

2 1	11 32.74	+ 5 4.7	1.981	2.805	13.2	20.1
2 11	11 29.70	+ 6 25.1	1.909	2.812	9.9	19.9
2 21	11 24.77	+ 7 58.7	1.861	2.819	6.1	19.7
3 2	11 18.52	+ 9 38.7	1.841	2.827	2.4	19.5
3 12	11 11.77	+11 16.6	1.849	2.835	3.2	19.5
3 22	11 5.37	+12 44.4	1.887	2.843	6.9	19.8
4 1	11 0.13	+13 55.9	1.951	2.852	10.5	20.0
4 11	10 56.66	+14 47.9	2.038	2.861	13.6	20.2

186066 2001 SA_{173} 3 8.0 157°.67 0°.9/ 7.2 18

2 1	11 39.67	+ 5 1.9	1.926	2.738	14.0	21.2
2 11	11 35.02	+ 5 32.3	1.846	2.741	10.6	21.0
2 21	11 28.21	+ 6 14.1	1.789	2.744	6.7	20.8
3 2	11 19.86	+ 7 2.4	1.760	2.746	2.5	20.5
3 12	11 10.89	+ 7 51.2	1.759	2.748	2.3	20.5
3 22	11 2.30	+ 8 34.2	1.786	2.750	6.5	20.8
4 1	10 55.05	+ 9 6.7	1.841	2.752	10.4	21.0
4 11	10 49.82	+ 9 25.4	1.918	2.753	13.8	21.2

170085 2002 XU_1 3 8.0 27°.64 5°.3/ 2.4 18

2 1	11 36.74	+17 30.0	1.951	2.790	12.7	19.8
2 11	11 32.80	+18 39.8	1.888	2.795	9.7	19.6
2 21	11 26.77	+19 51.1	1.848	2.800	6.8	19.5
3 2	11 19.29	+20 56.0	1.836	2.805	5.3	19.4
3 12	11 11.29	+21 46.9	1.852	2.810	6.6	19.5
3 22	11 3.74	+22 18.6	1.894	2.816	9.4	19.7
4 1	10 57.53	+22 28.7	1.960	2.822	12.4	19.9
4 11	10 53.29	+22 17.8	2.047	2.828	15.0	20.0

428811 2008 TE_{37} 3 8.0 170°.84 0°.9/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.08	− 0 3.7	2.301	3.089	12.7	22.3
2 11	11 33.50	+ 0 13.9	2.213	3.092	9.9	22.1
2 21	11 27.10	+ 0 44.3	2.149	3.094	6.5	21.9
3 2	11 19.41	+ 1 24.6	2.112	3.095	2.9	21.7
3 12	11 11.19	+ 2 10.3	2.105	3.096	1.5	21.6
3 22	11 3.26	+ 2 56.6	2.127	3.097	5.1	21.8
4 1	10 56.39	+ 3 38.4	2.178	3.098	8.6	22.0
4 11	10 51.20	+ 4 11.8	2.253	3.098	11.7	22.2

30822 1990 SX_{5} 3 8.0 115°.99 1°.4/ 6.9 18

2 1	11 42.70	+ 5 34.5	1.655	2.472	15.7	19.3
2 11	11 37.51	+ 6 15.4	1.589	2.487	11.8	19.1
2 21	11 29.85	+ 7 8.7	1.546	2.501	7.4	18.9
3 2	11 20.47	+ 8 8.2	1.529	2.516	2.8	18.6
3 12	11 10.51	+ 9 6.0	1.541	2.529	2.9	18.7
3 22	11 1.16	+ 9 54.9	1.580	2.542	7.4	19.0
4 1	10 53.45	+10 29.7	1.646	2.555	11.6	19.2
4 11	10 48.13	+10 47.7	1.734	2.567	15.2	19.5

330016 2005 UE_{79} 3 8.0 142°.26 4°.0/12.7 18

2 1	11 37.30	−11 8.4	2.285	3.022	14.3	21.4
2 11	11 32.92	−10 51.8	2.198	3.032	11.7	21.2
2 21	11 26.73	−10 14.8	2.132	3.042	8.7	21.1
3 2	11 19.27	− 9 18.4	2.093	3.051	5.7	20.9
3 12	11 11.29	− 8 6.5	2.081	3.060	4.0	20.8
3 22	11 3.63	− 6 44.9	2.100	3.068	5.3	20.9
4 1	10 57.07	− 5 20.7	2.147	3.075	8.2	21.1
4 11	10 52.21	− 4 0.6	2.220	3.082	11.2	21.3

151087 2001 VH_{84} 3 8.0 186°.74 6°.4/14.7 17

2 1	11 40.37	−16 26.4	2.359	3.055	14.9	20.6
2 11	11 35.38	−16 57.7	2.259	3.055	12.8	20.4
2 21	11 28.40	−17 8.6	2.181	3.054	10.3	20.3
3 2	11 19.95	−16 57.5	2.126	3.053	7.9	20.1
3 12	11 10.82	−16 25.2	2.099	3.051	6.5	20.0
3 22	11 1.88	−15 35.1	2.100	3.048	6.9	20.0
4 1	10 54.03	−14 33.0	2.129	3.045	9.0	20.2
4 11	10 47.95	−13 25.9	2.183	3.041	11.5	20.3

67880 2000 WJ_{47} 3 8.0 185°.60 2°.2/10.1 18

2 1	11 39.10	− 4 27.1	1.883	2.664	15.4	20.3
2 11	11 34.72	− 4 2.1	1.794	2.664	12.2	20.0
2 21	11 28.11	− 3 17.2	1.726	2.664	8.4	19.8
3 2	11 19.86	− 2 14.9	1.685	2.663	4.3	19.5
3 12	11 10.89	− 1 0.8	1.672	2.662	2.3	19.4
3 22	11 2.23	+ 0 17.7	1.687	2.660	5.9	19.6
4 1	10 54.89	+ 1 32.6	1.730	2.657	10.0	19.9
4 11	10 49.61	+ 2 37.3	1.797	2.654	13.7	20.1

169336 2001 TO_{178} 3 8.0 18°.98 5°.6/14.8 18

2 1	11 32.98	−15 32.7	2.112	2.838	15.7	19.7
2 11	11 29.90	−15 26.7	2.022	2.840	13.2	19.6
2 21	11 24.93	−14 56.2	1.951	2.843	10.4	19.4
3 2	11 18.61	−14 1.1	1.904	2.846	7.6	19.2
3 12	11 11.72	−12 44.3	1.883	2.850	5.7	19.1
3 22	11 5.12	−11 12.0	1.891	2.853	6.3	19.1
4 1	10 59.63	− 9 32.2	1.925	2.857	8.8	19.3
4 11	10 55.88	− 7 53.5	1.985	2.862	11.7	19.5

455587 2004 RT_{321} 3 8.0 175°.34 0°.9/ 8.8 18

2 1	11 43.65	+ 0 31.8	2.008	2.795	14.4	22.0
2 11	11 37.99	+ 0 44.4	1.921	2.799	11.1	21.7
2 21	11 30.10	+ 1 10.8	1.857	2.801	7.3	21.5
3 2	11 20.60	+ 1 47.8	1.820	2.803	3.1	21.3
3 12	11 10.42	+ 2 30.6	1.813	2.804	1.7	21.1
3 22	11 0.60	+ 3 13.6	1.835	2.804	5.9	21.4
4 1	10 52.12	+ 3 51.3	1.886	2.803	9.9	21.7
4 11	10 45.70	+ 4 19.5	1.961	2.802	13.3	21.9

168080 2006 DR_{58} 3 8.0 314°.33 0°.7/ 8.5 18

2 1	11 35.58	+ 0 19.7	1.308	2.137	18.3	20.2
2 11	11 33.07	+ 0 43.2	1.218	2.120	14.3	19.9
2 21	11 27.63	+ 1 29.2	1.148	2.103	9.5	19.5
3 2	11 19.84	+ 2 34.2	1.100	2.086	3.9	19.2
3 12	11 10.85	+ 3 50.1	1.078	2.070	2.2	19.0
3 22	11 2.12	+ 5 6.3	1.081	2.055	8.1	19.3
4 1	10 55.07	+ 6 12.4	1.106	2.040	13.6	19.6
4 11	10 50.80	+ 7 0.4	1.152	2.026	18.5	19.8

383709 2007 TY_{450} 3 8.0 27°.23 20°.7/22.9 17

2 1	12 0.35	+46 27.6	1.081	1.889	22.8	20.6
2 11	11 53.39	+48 22.6	1.056	1.892	21.4	20.5
2 21	11 40.90	+49 41.4	1.046	1.895	20.7	20.5
3 2	11 24.72	+50 5.1	1.053	1.900	21.0	20.5
3 12	11 7.94	+49 24.0	1.077	1.904	22.2	20.6
3 22	10 53.56	+47 41.1	1.117	1.909	23.9	20.8
4 1	10 43.54	+45 8.3	1.171	1.915	25.7	20.9
4 11	10 38.48	+42 1.3	1.237	1.921	27.5	21.1

202165 2004 VR_{43} 3 8.0 170°.28 1°.7/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 36.44	− 3 18.9	2.125	2.907	13.8	20.6
2 11	11 32.43	− 2 55.0	2.036	2.908	10.9	20.4
2 21	11 26.51	− 2 14.5	1.970	2.910	7.4	20.2
3 2	11 19.21	− 1 19.9	1.931	2.911	3.7	20.0
3 12	11 11.34	− 0 16.2	1.921	2.911	1.9	19.9
3 22	11 3.76	+ 0 50.4	1.940	2.912	5.3	20.1
4 1	10 57.30	+ 1 53.7	1.986	2.912	8.9	20.3
4 11	10 52.60	+ 2 48.0	2.057	2.912	12.3	20.5

488511 2000 UF_{76} 3 8.0 117°.80 10°.3/20.8 18

2 1	11 40.82	−28 47.9	2.025	2.645	19.0	21.3
2 11	11 36.04	−29 18.0	1.946	2.664	17.1	21.2
2 21	11 28.92	−29 16.5	1.883	2.683	14.8	21.0
3 2	11 20.15	−28 39.8	1.839	2.701	12.6	20.9
3 12	11 10.74	−27 28.0	1.819	2.719	10.9	20.9
3 22	11 1.80	−25 46.0	1.823	2.735	10.3	20.8
4 1	10 54.35	−23 42.7	1.854	2.751	11.2	20.9
4 11	10 49.11	−21 29.6	1.909	2.766	13.0	21.1

502814 2015 DV_{120} 3 8.0 53°.83 4°.9/ 2.6 17

2 1	11 36.27	+15 46.3	1.984	2.822	12.6	20.9
2 11	11 32.41	+17 5.7	1.920	2.828	9.5	20.7
2 21	11 26.51	+18 28.4	1.881	2.834	6.5	20.5
3 2	11 19.20	+19 46.3	1.870	2.841	4.9	20.4
3 12	11 11.37	+20 51.5	1.886	2.848	6.2	20.5
3 22	11 3.97	+21 38.2	1.930	2.854	9.1	20.7
4 1	10 57.86	+22 3.3	1.998	2.861	12.1	20.9
4 11	10 53.67	+22 6.9	2.088	2.868	14.7	21.1

203435 2001 YT_{6} 3 8.0 124°.01 0°.7/ 8.6 18

2 1	11 42.34	+ 0 56.5	1.599	2.405	16.6	21.5
2 11	11 37.42	+ 1 12.5	1.525	2.414	12.8	21.3
2 21	11 29.91	+ 1 44.9	1.473	2.423	8.4	21.0
3 2	11 20.55	+ 2 29.9	1.447	2.431	3.5	20.8
3 12	11 10.48	+ 3 20.7	1.448	2.440	1.9	20.7
3 22	11 0.94	+ 4 10.2	1.477	2.447	6.8	21.0
4 1	10 53.07	+ 4 51.7	1.532	2.455	11.3	21.3
4 11	10 47.64	+ 5 20.4	1.609	2.462	15.2	21.5

170781 2004 CL_{103} 3 8.0 313°.68 3°.6/11.8 17

2 1	11 35.50	− 7 45.1	2.169	2.932	14.2	20.1
2 11	11 31.76	− 7 49.4	2.074	2.927	11.5	19.9
2 21	11 26.12	− 7 35.8	2.000	2.922	8.5	19.7
3 2	11 19.08	− 7 5.0	1.951	2.917	5.3	19.5
3 12	11 11.42	− 6 20.1	1.930	2.913	3.6	19.4
3 22	11 3.99	− 5 25.9	1.938	2.908	5.5	19.5
4 1	10 57.62	− 4 28.5	1.973	2.904	8.7	19.7
4 11	10 52.98	− 3 34.1	2.033	2.900	11.9	19.9

195211 2002 DQ_{6} 3 8.0 94°.60 0°.5/ 8.4 18

2 1	11 42.60	+ 0 24.6	1.628	2.430	16.5	20.8
2 11	11 37.36	+ 0 59.5	1.568	2.455	12.6	20.6
2 21	11 29.70	+ 1 51.5	1.530	2.480	8.1	20.4
3 2	11 20.41	+ 2 55.2	1.519	2.504	3.3	20.1
3 12	11 10.63	+ 4 3.1	1.535	2.527	1.8	20.1
3 22	11 1.53	+ 5 7.2	1.580	2.550	6.6	20.4
4 1	10 54.12	+ 6 0.9	1.652	2.572	10.8	20.7
4 11	10 49.06	+ 6 39.7	1.746	2.594	14.4	21.0

118411 1999 RV_{251} 3 8.0 97°.96 11°.3/13.9 18

2 1	11 52.32	−14 48.1	1.233	1.977	23.9	19.1
2 11	11 46.11	−16 52.3	1.166	1.990	20.5	18.8
2 21	11 36.10	−18 29.8	1.115	2.003	16.7	18.6
3 2	11 23.10	−19 31.8	1.085	2.016	13.3	18.5
3 12	11 8.77	−19 54.4	1.079	2.028	11.4	18.4
3 22	10 55.08	−19 40.2	1.096	2.040	12.2	18.5
4 1	10 43.84	−18 58.8	1.136	2.051	15.1	18.7
4 11	10 36.26	−18 3.6	1.196	2.063	18.4	18.9

343042 2009 BO_{156} 3 8.0 103°.69 0°.2/ 7.8 18

2 1	11 36.74	+ 2 53.9	2.499	3.296	11.6	21.7
2 11	11 32.24	+ 3 28.0	2.427	3.313	8.8	21.5
2 21	11 26.16	+ 4 12.1	2.380	3.330	5.6	21.3
3 2	11 19.03	+ 5 2.5	2.361	3.347	2.1	21.1
3 12	11 11.53	+ 5 54.2	2.373	3.364	1.5	21.1
3 22	11 4.38	+ 6 42.6	2.414	3.380	4.9	21.4
4 1	10 58.24	+ 7 23.7	2.484	3.396	8.1	21.6
4 11	10 53.62	+ 7 54.3	2.579	3.411	10.8	21.8

504228 2006 UQ_{168} 3 8.0 162°.74 1°.3/ 9.8 17

2 1	11 34.25	− 3 3.2	2.595	3.371	11.8	22.0
2 11	11 30.44	− 2 31.1	2.504	3.374	9.2	21.8
2 21	11 25.08	− 1 44.9	2.437	3.376	6.2	21.7
3 2	11 18.64	− 0 47.4	2.398	3.378	3.0	21.5
3 12	11 11.77	+ 0 17.2	2.389	3.380	1.6	21.3
3 22	11 5.13	+ 1 23.6	2.410	3.381	4.5	21.5
4 1	10 59.37	+ 2 26.7	2.459	3.383	7.6	21.7
4 11	10 55.03	+ 3 22.1	2.535	3.384	10.4	21.9

2203 van Rhijn 3 8.0 134°.26 0°.6/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 36.66	+ 4 40.3	2.728	3.527	10.7	17.2
2 11	11 32.10	+ 5 12.7	2.650	3.538	8.1	17.0
2 21	11 26.05	+ 5 53.1	2.597	3.549	5.1	16.8
3 2	11 18.99	+ 6 38.2	2.573	3.559	1.9	16.6
3 12	11 11.56	+ 7 23.5	2.579	3.569	1.7	16.6
3 22	11 4.42	+ 8 5.0	2.616	3.578	4.8	16.9
4 1	10 58.20	+ 8 39.1	2.681	3.587	7.8	17.1
4 11	10 53.38	+ 9 3.3	2.771	3.596	10.3	17.3

367524 2009 QL_5 3 8.0 147°.25 0°.6/ 7.4 16

2 1	11 40.75	+ 4 47.0	2.496	3.291	11.7	21.9
2 11	11 35.29	+ 5 13.8	2.417	3.303	8.8	21.7
2 21	11 28.13	+ 5 49.2	2.364	3.314	5.6	21.5
3 2	11 19.79	+ 6 29.6	2.339	3.325	2.1	21.3
3 12	11 11.03	+ 7 10.2	2.345	3.335	1.8	21.3
3 22	11 2.62	+ 7 46.7	2.381	3.344	5.2	21.5
4 1	10 55.28	+ 8 15.5	2.447	3.352	8.5	21.8
4 11	10 49.57	+ 8 34.1	2.537	3.360	11.2	21.9

280112 2002 GG_{144} 3 8.0 309°.50 3°.0/ 5.2 18

2 1	11 33.09	+ 5 15.3	1.356	2.201	16.9	20.0
2 11	11 31.12	+ 6 47.0	1.265	2.179	12.9	19.7
2 21	11 26.36	+ 8 42.6	1.195	2.158	8.1	19.3
3 2	11 19.37	+10 53.2	1.150	2.137	3.6	19.0
3 12	11 11.23	+13 5.2	1.131	2.116	5.0	19.0
3 22	11 3.29	+15 4.1	1.138	2.096	10.3	19.2
4 1	10 56.93	+16 38.0	1.168	2.076	15.4	19.5
4 11	10 53.20	+17 40.7	1.218	2.057	19.9	19.7

350270 2012 TG_{196} 3 8.0 54°.10 2°.0/ 6.0 17

2 1	11 38.61	+ 9 53.1	2.264	3.081	12.0	21.0
2 11	11 33.92	+10 17.4	2.185	3.083	9.0	20.8
2 21	11 27.37	+10 47.4	2.130	3.086	5.7	20.6
3 2	11 19.54	+11 18.5	2.103	3.088	2.5	20.4
3 12	11 11.21	+11 45.7	2.106	3.090	3.1	20.5
3 22	11 3.24	+12 4.9	2.138	3.093	6.3	20.7
4 1	10 56.41	+12 13.1	2.197	3.095	9.6	20.9
4 11	10 51.31	+12 8.8	2.279	3.098	12.5	21.1

87636 2000 RX_{66} 3 8.0 45°.66 3°.2/ 5.9 18

2 1	11 45.03	+12 37.3	1.573	2.403	15.7	17.7
2 11	11 39.34	+12 47.3	1.514	2.418	11.8	17.5
2 21	11 31.02	+13 0.9	1.477	2.434	7.6	17.3
3 2	11 20.94	+13 12.2	1.466	2.449	3.7	17.1
3 12	11 10.35	+13 15.2	1.483	2.466	4.4	17.2
3 22	11 0.53	+13 5.9	1.527	2.482	8.3	17.5
4 1	10 52.57	+12 42.4	1.596	2.499	12.3	17.7
4 11	10 47.17	+12 5.2	1.687	2.516	15.7	18.0

210720 2000 SA_{286} 3 8.0 42°.46 5°.1/ 2.7 17

2 1	11 40.88	+20 34.1	2.323	3.148	11.4	20.0
2 11	11 35.62	+21 14.7	2.252	3.149	8.9	19.9
2 21	11 28.44	+21 53.2	2.206	3.150	6.4	19.7
3 2	11 19.94	+22 23.6	2.189	3.151	5.2	19.6
3 12	11 10.98	+22 40.4	2.200	3.152	6.1	19.7
3 22	11 2.45	+22 40.6	2.238	3.153	8.5	19.8
4 1	10 55.17	+22 22.9	2.303	3.155	11.1	20.0
4 11	10 49.72	+21 48.4	2.389	3.156	13.5	20.2

315460 2007 XZ_{32} 3 8.0 7°.75 1°.2/ 7.2 18

2 1	11 37.16	+ 5 26.0	1.250	2.094	18.1	19.9
2 11	11 34.13	+ 5 47.7	1.183	2.094	13.8	19.7
2 21	11 28.13	+ 6 24.7	1.135	2.096	8.8	19.4
3 2	11 19.97	+ 7 10.9	1.111	2.098	3.3	19.1
3 12	11 10.94	+ 7 57.5	1.112	2.102	3.1	19.1
3 22	11 2.52	+ 8 35.9	1.137	2.107	8.5	19.4
4 1	10 56.00	+ 8 59.6	1.185	2.112	13.6	19.7
4 11	10 52.28	+ 9 4.9	1.254	2.119	17.8	20.0

142414 2002 SS_{31} 3 8.0 60°.99 3°.9/ 4.7 18

2 1	11 40.54	+10 30.1	1.459	2.298	16.2	19.4
2 11	11 36.00	+11 44.2	1.415	2.325	12.1	19.2
2 21	11 28.90	+13 6.3	1.393	2.352	7.6	19.0
3 2	11 20.12	+14 26.9	1.397	2.379	4.1	18.9
3 12	11 10.92	+15 35.8	1.428	2.407	5.4	19.0
3 22	11 2.53	+16 25.8	1.486	2.434	9.2	19.3
4 1	10 55.98	+16 53.2	1.567	2.461	13.1	19.6
4 11	10 51.91	+16 58.1	1.670	2.488	16.3	19.9

321629 2009 WO_{121} 3 8.0 108°.61 0°.3/ 8.4 17

2 1	11 38.21	+ 1 26.3	1.988	2.789	14.0	21.6
2 11	11 33.85	+ 1 50.4	1.909	2.796	10.7	21.4
2 21	11 27.44	+ 2 28.1	1.853	2.803	6.9	21.2
3 2	11 19.60	+ 3 15.6	1.825	2.810	2.8	20.9
3 12	11 11.21	+ 4 7.3	1.825	2.816	1.6	20.9
3 22	11 3.20	+ 4 57.2	1.853	2.823	5.8	21.2
4 1	10 56.44	+ 5 39.8	1.909	2.829	9.6	21.4
4 11	10 51.60	+ 6 11.1	1.989	2.835	13.0	21.6

71188 1999 XH_{224} 3 8.0 209°.72 3°.5/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 37.61	+14 14.6	2.601	3.422	10.5	20.0
2 11	11 33.05	+15 19.3	2.515	3.415	7.9	19.8
2 21	11 26.80	+16 27.9	2.456	3.408	5.3	19.6
3 2	11 19.35	+17 34.8	2.426	3.401	3.6	19.5
3 12	11 11.38	+18 34.0	2.426	3.393	4.6	19.6
3 22	11 3.64	+19 20.6	2.456	3.384	7.2	19.7
4 1	10 56.86	+19 51.5	2.512	3.375	9.9	19.9
4 11	10 51.60	+20 5.6	2.591	3.366	12.4	20.0

30985 1995 SM_{24} 3 8.0 312°.18 1°.3/ 6.7 18

2 1	11 36.09	+ 6 35.6	2.138	2.955	12.6	19.1
2 11	11 32.22	+ 7 7.7	2.049	2.948	9.5	18.9
2 21	11 26.42	+ 7 49.3	1.984	2.940	6.0	18.7
3 2	11 19.23	+ 8 35.8	1.947	2.933	2.3	18.4
3 12	11 11.45	+ 9 21.7	1.938	2.926	2.5	18.4
3 22	11 3.93	+10 1.5	1.958	2.919	6.3	18.7
4 1	10 57.52	+10 30.7	2.004	2.913	9.9	18.9
4 11	10 52.87	+10 46.5	2.074	2.906	13.1	19.1

357362 2003 SX_{113} 3 8.0 206°.85 2°.3/10.2 18

2 1	11 39.36	− 4 22.1	1.904	2.683	15.3	21.6
2 11	11 34.97	− 4 2.5	1.810	2.679	12.2	21.4
2 21	11 28.33	− 3 23.5	1.738	2.674	8.4	21.1
3 2	11 20.01	− 2 27.2	1.691	2.669	4.4	20.9
3 12	11 10.93	− 1 18.7	1.673	2.663	2.4	20.7
3 22	11 2.12	− 0 5.2	1.684	2.657	5.9	20.9
4 1	10 54.58	+ 1 5.8	1.722	2.650	10.0	21.1
4 11	10 49.09	+ 2 7.5	1.785	2.642	13.7	21.4

462893 2010 WG_{29} 3 8.0 33°.38 0°.3/ 7.8 18

2 1	11 38.73	+ 3 36.4	1.461	2.288	16.9	21.1
2 11	11 34.85	+ 3 54.3	1.395	2.296	12.9	20.9
2 21	11 28.35	+ 4 27.0	1.350	2.306	8.2	20.6
3 2	11 20.01	+ 5 9.5	1.329	2.316	3.1	20.4
3 12	11 10.99	+ 5 54.6	1.335	2.326	2.2	20.3
3 22	11 2.55	+ 6 34.9	1.367	2.337	7.3	20.7
4 1	10 55.83	+ 7 4.3	1.424	2.349	11.9	20.9
4 11	10 51.59	+ 7 19.0	1.502	2.361	15.8	21.2

119367 2001 SO_{253} 3 8.0 207°.78 1°.2/ 6.8 17

2 1	11 38.65	+ 5 21.1	2.114	2.924	13.0	20.8
2 11	11 34.17	+ 6 5.6	2.025	2.920	9.8	20.6
2 21	11 27.68	+ 7 1.3	1.960	2.915	6.2	20.4
3 2	11 19.73	+ 8 3.5	1.923	2.909	2.3	20.1
3 12	11 11.14	+ 9 5.8	1.915	2.904	2.5	20.1
3 22	11 2.83	+10 1.9	1.937	2.898	6.4	20.3
4 1	10 55.67	+10 46.5	1.986	2.891	10.1	20.5
4 11	10 50.36	+11 16.4	2.058	2.884	13.4	20.7

337682 2001 TE_{218} 3 8.0 114°.33 0°.0/ 7.8 17

2 1	11 36.98	+ 2 47.3	2.567	3.362	11.4	22.0
2 11	11 32.42	+ 3 15.0	2.491	3.376	8.6	21.8
2 21	11 26.30	+ 3 52.3	2.440	3.390	5.5	21.6
3 2	11 19.12	+ 4 35.9	2.418	3.403	2.1	21.4
3 12	11 11.57	+ 5 21.4	2.425	3.417	1.4	21.4
3 22	11 4.34	+ 6 4.2	2.463	3.429	4.8	21.6
4 1	10 58.09	+ 6 40.6	2.529	3.442	7.9	21.9
4 11	10 53.32	+ 7 7.6	2.621	3.454	10.6	22.1

426978 2014 AO_7 3 8.0 185°.40 2°.6/10.7 17

2 1	11 37.73	− 4 36.4	2.371	3.139	13.0	21.5
2 11	11 33.26	− 4 44.0	2.279	3.139	10.4	21.3
2 21	11 26.99	− 4 37.6	2.209	3.139	7.3	21.1
3 2	11 19.44	− 4 18.2	2.166	3.138	4.2	20.9
3 12	11 11.34	− 3 48.8	2.152	3.138	2.7	20.8
3 22	11 3.49	− 3 13.4	2.167	3.138	4.9	21.0
4 1	10 56.65	− 2 36.8	2.211	3.137	8.1	21.2
4 11	10 51.44	− 2 3.6	2.279	3.137	11.1	21.4

173493 2000 SW_{208} 3 8.0 146°.25 1°.7/ 5.7 17

2 1	11 35.62	+ 8 50.2	2.885	3.695	9.9	21.0
2 11	11 31.28	+ 9 38.2	2.807	3.703	7.4	20.8
2 21	11 25.53	+10 32.0	2.756	3.711	4.6	20.6
3 2	11 18.83	+11 27.4	2.735	3.719	2.1	20.5
3 12	11 11.77	+12 19.7	2.744	3.726	2.6	20.5
3 22	11 4.97	+13 4.8	2.783	3.733	5.3	20.7
4 1	10 59.02	+13 39.6	2.850	3.740	8.0	20.9
4 11	10 54.39	+14 2.3	2.943	3.746	10.4	21.1

167471 2003 YH_{40} 3 8.0 326°.72 0°.6/ 7.4 17

2 1	11 36.22	+ 4 19.1	2.054	2.867	13.2	20.3
2 11	11 32.36	+ 4 49.8	1.968	2.863	10.0	20.1
2 21	11 26.53	+ 5 32.0	1.906	2.860	6.4	19.9
3 2	11 19.29	+ 6 21.3	1.871	2.857	2.4	19.6
3 12	11 11.45	+ 7 12.2	1.864	2.854	2.0	19.6
3 22	11 3.91	+ 7 58.7	1.886	2.851	6.1	19.8
4 1	10 57.52	+ 8 35.8	1.934	2.849	9.9	20.0
4 11	10 52.95	+ 9 0.0	2.006	2.846	13.1	20.3

431056 2006 BY_{127} 3 8.0 147°.14 1°.0/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.39	− 0 18.6	2.230	3.018	13.1	22.0
2 11	11 33.79	− 0 0.5	2.145	3.024	10.1	21.8
2 21	11 27.33	+ 0 30.8	2.085	3.029	6.7	21.6
3 2	11 19.57	+ 1 12.5	2.052	3.035	3.0	21.4
3 12	11 11.28	+ 1 59.8	2.048	3.040	1.5	21.3
3 22	11 3.31	+ 2 47.7	2.074	3.044	5.2	21.5
4 1	10 56.47	+ 3 30.9	2.128	3.049	8.7	21.8
4 11	10 51.35	+ 4 5.5	2.206	3.053	11.9	22.0

170058 2002 VR_{81} 3 8.0 47°.00 7°.0/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.26	+22 50.8	2.002	2.842	12.4	19.4
2 11	11 33.21	+24 19.4	1.949	2.850	9.8	19.3
2 21	11 27.05	+25 44.9	1.921	2.858	7.7	19.1
3 2	11 19.46	+26 58.4	1.919	2.867	7.1	19.1
3 12	11 11.37	+27 52.2	1.944	2.876	8.4	19.2
3 22	11 3.77	+28 22.0	1.995	2.885	10.7	19.4
4 1	10 57.55	+28 26.5	2.069	2.894	13.2	19.6
4 11	10 53.33	+28 7.6	2.163	2.904	15.5	19.7

286215 2001 UU_{102} 3 8.0 136°.12 1°.5/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.47	+ 6 26.6	1.993	2.807	13.5	21.7
2 11	11 34.79	+ 7 9.5	1.918	2.815	10.2	21.5
2 21	11 28.04	+ 8 2.6	1.867	2.822	6.4	21.3
3 2	11 19.85	+ 9 0.5	1.843	2.830	2.5	21.1
3 12	11 11.11	+ 9 56.5	1.849	2.836	2.8	21.1
3 22	11 2.78	+10 44.6	1.884	2.843	6.7	21.3
4 1	10 55.75	+11 20.1	1.945	2.849	10.4	21.6
4 11	10 50.67	+11 40.4	2.029	2.855	13.5	21.8

279301 2009 WX_{179} 3 8.0 183°.95 4°.9/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.72	+18 6.7	2.276	3.101	11.6	21.1
2 11	11 35.59	+19 7.8	2.203	3.102	8.9	20.9
2 21	11 28.49	+20 9.6	2.154	3.102	6.3	20.7
3 2	11 20.01	+21 5.5	2.134	3.101	4.9	20.6
3 12	11 11.00	+21 48.8	2.144	3.100	6.0	20.7
3 22	11 2.37	+22 15.1	2.181	3.099	8.6	20.8
4 1	10 54.95	+22 22.3	2.244	3.097	11.3	21.0
4 11	10 49.37	+22 10.7	2.329	3.094	13.8	21.2

62500 2000 SL_{229} 3 8.1 236°.97 1°.2/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.38	+ 6 20.8	2.054	2.867	13.2	19.4
2 11	11 34.81	+ 6 50.8	1.963	2.859	10.0	19.2
2 21	11 28.14	+ 7 30.8	1.896	2.851	6.3	19.0
3 2	11 19.94	+ 8 16.2	1.857	2.843	2.4	18.7
3 12	11 11.05	+ 9 1.1	1.846	2.835	2.5	18.7
3 22	11 2.44	+ 9 40.0	1.865	2.826	6.5	18.9
4 1	10 55.03	+10 8.0	1.910	2.817	10.4	19.1
4 11	10 49.53	+10 22.4	1.978	2.808	13.7	19.3

437481 2013 YP_{51} 3 8.1 5°.66 3°.1/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 34.50	− 4 17.1	1.685	2.482	16.3	20.3
2 11	11 31.45	− 4 26.6	1.606	2.483	13.0	20.1
2 21	11 26.14	− 4 17.1	1.546	2.485	9.1	19.8
3 2	11 19.19	− 3 50.1	1.512	2.487	5.1	19.6
3 12	11 11.56	− 3 9.8	1.503	2.491	3.1	19.5
3 22	11 4.30	− 2 22.4	1.521	2.495	6.1	19.7
4 1	10 58.40	− 1 34.9	1.564	2.501	10.1	19.9
4 11	10 54.62	− 0 53.8	1.631	2.507	13.8	20.1

150286 1999 TA_{96} 3 8.1 189°.71 2°.1/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.03	+ 9 34.6	2.454	3.266	11.3	20.6
2 11	11 34.16	+10 17.2	2.369	3.265	8.5	20.4
2 21	11 27.53	+11 6.3	2.309	3.264	5.4	20.2
3 2	11 19.65	+11 57.0	2.278	3.262	2.5	20.0
3 12	11 11.27	+12 44.0	2.277	3.259	3.2	20.1
3 22	11 3.16	+13 22.3	2.306	3.256	6.3	20.3
4 1	10 56.09	+13 48.7	2.362	3.252	9.4	20.4
4 11	10 50.64	+14 1.3	2.443	3.248	12.1	20.6

340626 2006 QT_{121} 3 8.1 125°.95 1°.5/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.66	+ 9 25.1	2.964	3.766	9.8	21.3
2 11	11 34.20	+ 9 48.2	2.892	3.782	7.4	21.1
2 21	11 27.32	+10 15.5	2.846	3.799	4.6	21.0
3 2	11 19.51	+10 43.5	2.830	3.814	2.0	20.8
3 12	11 11.40	+11 8.5	2.845	3.830	2.3	20.8
3 22	11 3.62	+11 27.6	2.891	3.845	5.0	21.0
4 1	10 56.75	+11 38.4	2.967	3.859	7.6	21.2
4 11	10 51.27	+11 39.6	3.067	3.873	9.9	21.4

244589 2002 XK_{62} 3 8.1 130°.62 4°.6/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.86	+18 17.6	2.468	3.296	10.8	20.3
2 11	11 33.24	+19 24.1	2.404	3.304	8.2	20.2
2 21	11 26.90	+20 30.9	2.366	3.313	5.8	20.0
3 2	11 19.39	+21 31.6	2.356	3.321	4.6	20.0
3 12	11 11.47	+22 20.4	2.376	3.329	5.7	20.0
3 22	11 3.91	+22 53.0	2.423	3.337	8.0	20.2
4 1	10 57.45	+23 7.7	2.497	3.344	10.5	20.4
4 11	10 52.62	+23 4.4	2.592	3.351	12.7	20.5

366392 2001 QL_{173} 3 8.1 190°.46 4°.1/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 42.71	− 7 56.7	2.229	2.974	14.4	21.8
2 11	11 37.22	− 8 24.1	2.132	2.973	11.8	21.6
2 21	11 29.64	− 8 35.4	2.057	2.971	8.7	21.4
3 2	11 20.52	− 8 30.4	2.008	2.969	5.7	21.2
3 12	11 10.69	− 8 10.9	1.989	2.967	4.1	21.1
3 22	11 1.09	− 7 40.6	1.998	2.963	5.8	21.2
4 1	10 52.65	− 7 4.6	2.036	2.960	8.9	21.4
4 11	10 46.07	− 6 28.5	2.100	2.955	12.0	21.6

122325 2000 QP_{19} 3 8.1 184°.09 0°.0/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.79	+ 2 54.4	2.414	3.206	12.1	20.7
2 11	11 34.75	+ 3 18.6	2.324	3.207	9.2	20.5
2 21	11 27.92	+ 3 53.3	2.258	3.207	5.9	20.3
3 2	11 19.81	+ 4 35.0	2.221	3.206	2.3	20.0
3 12	11 11.17	+ 5 19.4	2.213	3.205	1.5	20.0
3 22	11 2.80	+ 6 1.4	2.237	3.203	5.2	20.2
4 1	10 55.47	+ 6 36.9	2.288	3.200	8.7	20.4
4 11	10 49.78	+ 7 2.5	2.365	3.197	11.7	20.6

259513 2003 SC_{339} 3 8.1 282°.09 3°.5/ 5.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.75	+10 15.8	1.550	2.387	15.6	21.0
2 11	11 35.84	+11 8.8	1.465	2.374	11.8	20.7
2 21	11 29.18	+12 12.6	1.401	2.360	7.6	20.4
3 2	11 20.44	+13 19.6	1.364	2.347	3.9	20.2
3 12	11 10.72	+14 20.3	1.353	2.334	5.0	20.2
3 22	11 1.33	+15 6.2	1.368	2.321	9.4	20.4
4 1	10 53.54	+15 31.7	1.408	2.308	13.8	20.7
4 11	10 48.27	+15 34.8	1.468	2.295	17.7	20.9

371759 2007 FH_{47} 3 8.1 2°.55 0°.4/ 7.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.87	+ 3 33.4	1.710	2.528	15.2	21.2
2 11	11 33.98	+ 3 58.5	1.630	2.527	11.6	21.0
2 21	11 27.74	+ 4 37.5	1.573	2.527	7.4	20.7
3 2	11 19.81	+ 5 25.7	1.541	2.527	2.8	20.4
3 12	11 11.17	+ 6 16.6	1.537	2.528	2.1	20.4
3 22	11 2.93	+ 7 3.2	1.560	2.528	6.8	20.7
4 1	10 56.12	+ 7 39.7	1.609	2.529	11.1	20.9
4 11	10 51.49	+ 8 2.0	1.680	2.530	14.8	21.2

523531 2017 OR_{66} 3 8.1 201°.09 0°.4/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 33.24	− 0 48.6	2.583	3.371	11.5	21.5
2 11	11 29.73	+ 0 4.5	2.490	3.370	8.9	21.3
2 21	11 24.69	+ 1 11.4	2.422	3.369	5.8	21.1
3 2	11 18.56	+ 2 28.6	2.383	3.367	2.4	20.9
3 12	11 11.99	+ 3 50.7	2.374	3.366	1.3	20.8
3 22	11 5.62	+ 5 11.9	2.395	3.364	4.7	21.0
4 1	11 0.13	+ 6 26.5	2.445	3.362	7.9	21.2
4 11	10 56.02	+ 7 30.1	2.521	3.360	10.8	21.4

154341 2002 WQ_{1} 3 8.1 359°.24 3°.1/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.59	− 4 3.9	1.283	2.093	19.7	19.9
2 11	11 35.29	− 4 5.8	1.206	2.092	15.7	19.7
2 21	11 28.99	− 3 42.9	1.148	2.092	10.9	19.4
3 2	11 20.39	− 2 56.9	1.113	2.092	5.8	19.1
3 12	11 10.78	− 1 54.0	1.102	2.092	3.3	18.9
3 22	11 1.64	− 0 43.6	1.116	2.092	7.6	19.2
4 1	10 54.36	+ 0 23.8	1.154	2.093	12.7	19.5
4 11	10 49.93	+ 1 19.4	1.213	2.094	17.3	19.7

433050 2012 SS_{54} 3 8.1 154°.36 3°.5/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.56	+15 23.5	2.577	3.398	10.6	21.7
2 11	11 33.70	+16 8.0	2.503	3.402	8.0	21.5
2 21	11 27.16	+16 54.2	2.455	3.406	5.3	21.3
3 2	11 19.50	+17 37.1	2.436	3.410	3.6	21.2
3 12	11 11.41	+18 11.5	2.446	3.414	4.5	21.3
3 22	11 3.66	+18 33.9	2.486	3.417	6.9	21.5
4 1	10 56.95	+18 41.8	2.552	3.420	9.6	21.6
4 11	10 51.80	+18 35.1	2.642	3.423	12.0	21.8

498103 2007 RG_{295} 3 8.1 123°.42 1°.7/10.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.36	− 3 39.5	2.349	3.126	12.8	22.1
2 11	11 31.44	− 3 11.9	2.264	3.133	10.1	21.9
2 21	11 25.82	− 2 28.9	2.202	3.139	6.9	21.7
3 2	11 19.01	− 1 33.1	2.167	3.145	3.5	21.5
3 12	11 11.73	− 0 29.1	2.161	3.151	1.8	21.4
3 22	11 4.73	+ 0 37.4	2.185	3.157	4.8	21.6
4 1	10 58.75	+ 1 40.7	2.237	3.162	8.1	21.8
4 11	10 54.33	+ 2 35.9	2.314	3.168	11.1	22.0

77770 2001 QR_{7} 3 8.1 59°.71 1°.5/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 34.56	+ 5 17.1	2.102	2.919	12.7	19.2
2 11	11 31.01	+ 6 19.3	2.026	2.925	9.6	19.0
2 21	11 25.62	+ 7 33.1	1.975	2.931	6.0	18.8
3 2	11 18.95	+ 8 52.8	1.951	2.938	2.3	18.6
3 12	11 11.77	+10 11.3	1.957	2.944	2.7	18.6
3 22	11 4.93	+11 21.7	1.992	2.951	6.4	18.8
4 1	10 59.22	+12 18.8	2.053	2.957	9.9	19.1
4 11	10 55.23	+12 59.3	2.138	2.964	12.9	19.3

116452 2004 AN_1 3 8.1 61°.99 4°.6/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 35.23	+14 39.8	2.071	2.907	12.2	19.6
2 11	11 31.60	+16 10.3	2.005	2.913	9.2	19.4
2 21	11 26.03	+17 45.4	1.964	2.918	6.2	19.3
3 2	11 19.11	+19 17.1	1.952	2.924	4.6	19.2
3 12	11 11.67	+20 37.0	1.968	2.930	6.0	19.3
3 22	11 4.60	+21 39.0	2.012	2.936	8.8	19.5
4 1	10 58.73	+22 19.4	2.081	2.942	11.8	19.7
4 11	10 54.67	+22 37.6	2.171	2.948	14.4	19.8

43855 1993 TX_{36} 3 8.1 257°.45 0°.9/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.59	+ 4 31.0	2.271	3.078	12.3	19.1
2 11	11 32.57	+ 5 12.6	2.170	3.063	9.3	18.8
2 21	11 26.68	+ 6 5.7	2.094	3.048	5.9	18.6
3 2	11 19.39	+ 7 6.1	2.046	3.033	2.2	18.3
3 12	11 11.45	+ 8 8.1	2.028	3.017	2.1	18.3
3 22	11 3.69	+ 9 5.8	2.039	3.001	6.0	18.5
4 1	10 56.92	+ 9 53.9	2.077	2.985	9.6	18.7
4 11	10 51.83	+10 28.6	2.139	2.969	12.8	18.9

172968 2005 NQ_{80} 3 8.1 227°.53 2°.5/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.35	+11 28.0	2.694	3.511	10.3	20.8
2 11	11 32.05	+12 16.4	2.604	3.503	7.7	20.7
2 21	11 26.16	+13 9.9	2.539	3.494	4.9	20.5
3 2	11 19.14	+14 3.9	2.504	3.485	2.7	20.3
3 12	11 11.64	+14 53.0	2.499	3.476	3.5	20.3
3 22	11 4.34	+15 33.0	2.523	3.466	6.2	20.5
4 1	10 57.93	+16 0.7	2.575	3.456	9.0	20.7
4 11	10 52.96	+16 14.3	2.651	3.446	11.6	20.8

455229 2001 SL_{14} 3 8.1 128°.14 1°.8/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.06	+ 9 23.3	1.965	2.777	13.7	20.9
2 11	11 39.02	+ 9 36.1	1.891	2.786	10.4	20.7
2 21	11 30.73	+ 9 54.8	1.841	2.795	6.6	20.5
3 2	11 20.91	+10 14.9	1.819	2.804	2.7	20.2
3 12	11 10.53	+10 31.2	1.826	2.812	3.0	20.3
3 22	11 0.67	+10 39.3	1.862	2.821	6.8	20.5
4 1	10 52.28	+10 36.6	1.926	2.828	10.6	20.8
4 11	10 46.04	+10 21.8	2.013	2.836	13.8	21.0

136722 1995 UO_{27} 3 8.1 74°.65 3°.0/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.11	+13 4.1	2.255	3.077	11.8	20.6
2 11	11 34.29	+13 37.7	2.183	3.084	8.9	20.4
2 21	11 27.62	+14 14.7	2.137	3.092	5.7	20.3
3 2	11 19.69	+14 49.9	2.119	3.099	3.2	20.1
3 12	11 11.32	+15 17.9	2.129	3.106	4.0	20.2
3 22	11 3.35	+15 34.7	2.169	3.114	7.0	20.4
4 1	10 56.57	+15 38.0	2.235	3.121	10.0	20.6
4 11	10 51.55	+15 27.0	2.324	3.128	12.7	20.8

163881 2003 SK_{170} 3 8.1 198°.16 0°.8/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.82	+ 4 29.8	2.111	2.912	13.3	21.1
2 11	11 36.61	+ 5 4.9	2.019	2.908	10.1	20.9
2 21	11 29.28	+ 5 51.4	1.952	2.904	6.4	20.7
3 2	11 20.40	+ 6 45.1	1.913	2.899	2.4	20.4
3 12	11 10.84	+ 7 39.9	1.903	2.893	2.2	20.4
3 22	11 1.57	+ 8 29.8	1.923	2.886	6.3	20.6
4 1	10 53.50	+ 9 9.7	1.972	2.879	10.1	20.8
4 11	10 47.36	+ 9 36.2	2.044	2.870	13.4	21.0

156505 2002 CA_{163} 3 8.1 328°.41 2°.5/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.30	+ 9 30.9	1.737	2.567	14.5	19.8
2 11	11 35.08	+10 3.3	1.657	2.562	11.0	19.5
2 21	11 28.47	+10 44.0	1.600	2.557	6.9	19.3
3 2	11 20.12	+11 27.2	1.568	2.553	3.1	19.0
3 12	11 11.03	+12 5.9	1.565	2.549	3.8	19.1
3 22	11 2.35	+12 33.8	1.588	2.546	7.9	19.3
4 1	10 55.12	+12 46.7	1.637	2.542	11.9	19.5
4 11	10 50.11	+12 42.9	1.708	2.539	15.5	19.7

13214 Chirikov 3 8.1 315°.85 0°.0/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.35	+ 1 47.5	1.488	2.312	16.8	17.8
2 11	11 33.30	+ 2 16.9	1.400	2.300	13.0	17.5
2 21	11 27.60	+ 3 5.0	1.333	2.288	8.4	17.2
3 2	11 19.87	+ 4 7.4	1.291	2.277	3.3	16.9
3 12	11 11.16	+ 5 16.4	1.274	2.266	2.1	16.7
3 22	11 2.76	+ 6 22.9	1.284	2.255	7.5	17.0
4 1	10 55.89	+ 7 18.4	1.318	2.245	12.5	17.3
4 11	10 51.49	+ 7 57.0	1.374	2.236	16.8	17.5

73697 1991 RT_{29} 3 8.1 159°.39 1°.4/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.23	− 0 24.7	2.037	2.820	14.3	19.3
2 11	11 37.66	− 0 24.0	1.952	2.827	11.2	19.1
2 21	11 29.92	− 0 10.0	1.891	2.832	7.5	18.9
3 2	11 20.63	+ 0 15.2	1.856	2.838	3.5	18.6
3 12	11 10.72	+ 0 47.3	1.851	2.842	1.8	18.5
3 22	11 1.18	+ 1 21.3	1.876	2.846	5.6	18.8
4 1	10 52.95	+ 1 52.2	1.928	2.849	9.5	19.0
4 11	10 46.74	+ 2 15.7	2.005	2.852	12.9	19.2

144551 2004 EL_{115} 3 8.1 51°.47 3°.8/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 39.40	+11 13.7	1.581	2.418	15.3	20.1
2 11	11 35.29	+12 11.8	1.514	2.423	11.5	19.8
2 21	11 28.63	+13 18.1	1.469	2.428	7.4	19.6
3 2	11 20.17	+14 24.6	1.450	2.432	4.0	19.4
3 12	11 11.03	+15 22.1	1.459	2.437	5.2	19.5
3 22	11 2.42	+16 3.4	1.493	2.442	9.1	19.7
4 1	10 55.45	+16 24.2	1.553	2.448	13.1	20.0
4 11	10 50.88	+16 23.6	1.632	2.453	16.5	20.2

403007 2007 VA_{291} 3 8.1 63°.92 2°.6/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.21	+ 7 50.3	1.457	2.291	16.5	21.1
2 11	11 35.95	+ 8 41.6	1.398	2.306	12.4	20.9
2 21	11 29.05	+ 9 44.5	1.361	2.320	7.7	20.6
3 2	11 20.32	+10 51.1	1.350	2.335	3.3	20.4
3 12	11 10.99	+11 52.2	1.365	2.350	4.1	20.5
3 22	11 2.32	+12 39.8	1.407	2.365	8.5	20.8
4 1	10 55.45	+13 8.9	1.473	2.381	12.8	21.1
4 11	10 51.10	+13 17.8	1.560	2.396	16.4	21.3

350269 2012 TD_{194} 3 8.1 60°.51 4°.5/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.96	+17 26.7	2.223	3.052	11.7	20.8
2 11	11 34.25	+18 13.9	2.156	3.058	8.9	20.6
2 21	11 27.63	+19 1.6	2.114	3.064	6.2	20.4
3 2	11 19.73	+19 43.6	2.099	3.070	4.5	20.3
3 12	11 11.36	+20 14.1	2.113	3.076	5.6	20.4
3 22	11 3.43	+20 29.0	2.155	3.082	8.2	20.6
4 1	10 56.72	+20 26.7	2.223	3.088	11.0	20.8
4 11	10 51.82	+20 7.4	2.313	3.094	13.5	21.0

216811 2006 TK_{65} 3 8.1 50°.56 5°.6/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 33.79	−16 1.8	2.160	2.879	15.5	19.8
2 11	11 30.45	−15 55.4	2.079	2.893	13.1	19.7
2 21	11 25.28	−15 25.1	2.018	2.906	10.3	19.5
3 2	11 18.84	−14 30.8	1.981	2.920	7.5	19.4
3 12	11 11.93	−13 16.0	1.970	2.934	5.7	19.3
3 22	11 5.35	−11 46.6	1.987	2.949	6.2	19.3
4 1	10 59.90	−10 10.3	2.032	2.963	8.5	19.5
4 11	10 56.16	− 8 35.4	2.103	2.978	11.2	19.7

430315 2013 XM_{19} 3 8.1 15°.10 12°.8/18.9 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 33.84	+35 19.4	1.640	2.480	14.6	19.5
2 11	11 31.52	+38 21.2	1.614	2.487	13.2	19.4
2 21	11 26.45	+41 5.6	1.613	2.495	12.8	19.4
3 2	11 19.39	+43 18.4	1.637	2.503	13.7	19.4
3 12	11 11.57	+44 50.4	1.682	2.513	15.2	19.6
3 22	11 4.33	+45 38.3	1.747	2.523	17.1	19.7
4 1	10 58.89	+45 44.5	1.828	2.534	18.9	19.9
4 11	10 56.03	+45 15.0	1.922	2.547	20.4	20.1

209780 2005 GV_1 3 8.1 266°.93 6°.2/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.94	+16 35.4	1.778	2.617	13.7	20.3
2 11	11 35.08	+18 19.0	1.689	2.596	10.6	20.1
2 21	11 28.67	+20 10.2	1.624	2.575	7.6	19.9
3 2	11 20.30	+21 58.5	1.587	2.553	6.2	19.7
3 12	11 10.93	+23 32.6	1.577	2.531	8.0	19.8
3 22	11 1.75	+24 43.4	1.594	2.508	11.4	19.9
4 1	10 53.95	+25 25.8	1.634	2.486	14.9	20.1
4 11	10 48.44	+25 39.2	1.694	2.462	18.1	20.2

502156 2015 BO_{41} 3 8.1 209°.62 2°.7/ 5.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.67	+10 26.2	2.064	2.885	12.8	21.4
2 11	11 35.00	+11 8.7	1.981	2.882	9.7	21.2
2 21	11 28.26	+11 58.2	1.923	2.879	6.1	21.0
3 2	11 20.02	+12 48.8	1.893	2.876	3.0	20.8
3 12	11 11.16	+13 34.2	1.891	2.872	3.8	20.8
3 22	11 2.65	+14 8.8	1.918	2.868	7.3	21.0
4 1	10 55.37	+14 28.9	1.971	2.864	10.8	21.2
4 11	10 50.02	+14 32.8	2.048	2.860	13.9	21.4

286769 2002 JS_{14} 3 8.1 280°.77 3°.3/ 5.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.43	+ 9 51.8	1.630	2.462	15.2	21.0
2 11	11 36.40	+10 42.3	1.532	2.438	11.6	20.7
2 21	11 29.63	+11 44.4	1.456	2.415	7.5	20.4
3 2	11 20.70	+12 51.1	1.407	2.391	3.7	20.1
3 12	11 10.65	+13 53.1	1.384	2.366	4.8	20.1
3 22	11 0.76	+14 42.0	1.389	2.342	9.2	20.3
4 1	10 52.32	+15 11.5	1.418	2.317	13.8	20.5
4 11	10 46.36	+15 18.9	1.468	2.292	17.8	20.7

47080 1998 YA_7 3 8.1 85°.76 5°.3/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.58	+18 4.9	2.095	2.929	12.2	18.5
2 11	11 34.03	+19 22.2	2.042	2.945	9.3	18.3
2 21	11 27.51	+20 39.8	2.013	2.962	6.6	18.2
3 2	11 19.68	+21 49.8	2.013	2.978	5.3	18.1
3 12	11 11.43	+22 45.3	2.040	2.994	6.5	18.2
3 22	11 3.67	+23 21.5	2.095	3.010	9.0	18.4
4 1	10 57.23	+23 36.5	2.175	3.026	11.7	18.6
4 11	10 52.68	+23 31.1	2.276	3.042	14.1	18.8

458346 2010 VP_{173} 3 8.1 10°.29 10°.0/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.59	+25 45.2	1.396	2.247	16.1	20.4
2 11	11 36.67	+27 13.6	1.345	2.248	13.1	20.2
2 21	11 29.71	+28 34.8	1.315	2.251	10.7	20.0
3 2	11 20.63	+29 36.3	1.310	2.254	10.0	20.0
3 12	11 10.82	+30 7.8	1.328	2.258	11.6	20.1
3 22	11 1.81	+30 4.7	1.368	2.263	14.4	20.3
4 1	10 54.87	+29 28.0	1.430	2.268	17.4	20.5
4 11	10 50.78	+28 22.5	1.508	2.274	20.1	20.7

429348 2010 FN_{83} 3 8.1 276°.51 7°.4/29.0 17

2 1	11 42.52	+27 12.0	2.246	3.068	11.9	20.7
2 11	11 37.15	+28 10.9	2.173	3.059	9.7	20.5
2 21	11 29.61	+29 3.6	2.125	3.049	8.0	20.4
3 2	11 20.53	+29 42.5	2.104	3.039	7.5	20.4
3 12	11 10.86	+30 1.3	2.110	3.029	8.6	20.4
3 22	11 1.62	+29 56.6	2.142	3.019	10.7	20.5
4 1	10 53.74	+29 28.0	2.198	3.008	13.0	20.7
4 11	10 47.91	+28 38.1	2.274	2.998	15.2	20.8

244302 2002 GM_4 3 8.1 169°.60 10°.3/17.9 18

2 1	11 38.54	−23 44.7	1.308	2.018	24.3	20.7
2 11	11 35.51	−23 45.5	1.224	2.021	21.3	20.5
2 21	11 29.28	−23 0.9	1.154	2.023	17.8	20.3
3 2	11 20.59	−21 25.1	1.102	2.025	13.9	20.0
3 12	11 10.78	−18 59.7	1.073	2.026	10.9	19.9
3 22	11 1.42	−15 55.6	1.068	2.027	10.6	19.8
4 1	10 54.06	−12 31.8	1.089	2.027	13.3	20.0
4 11	10 49.72	− 9 10.2	1.133	2.026	17.2	20.2

111292 2001 XN_{51} 3 8.1 269°.99 3°.5/12.1 18

2 1	11 35.04	− 8 36.9	2.387	3.139	13.3	19.9
2 11	11 31.28	− 8 34.2	2.291	3.137	10.9	19.8
2 21	11 25.80	− 8 14.1	2.217	3.135	8.0	19.6
3 2	11 19.07	− 7 37.7	2.170	3.133	5.1	19.4
3 12	11 11.80	− 6 47.8	2.150	3.131	3.5	19.3
3 22	11 4.75	− 5 49.2	2.159	3.129	5.1	19.4
4 1	10 58.66	− 4 47.6	2.197	3.127	8.0	19.5
4 11	10 54.13	− 3 48.8	2.260	3.125	10.9	19.7

490630 2010 BF_{122} 3 8.1 21°.11 4°.3/12.4 17

2 1	11 34.73	− 9 17.6	1.901	2.666	15.8	20.8
2 11	11 31.42	− 9 20.3	1.818	2.670	12.9	20.6
2 21	11 26.05	− 9 1.5	1.755	2.675	9.6	20.4
3 2	11 19.20	− 8 22.0	1.717	2.680	6.2	20.2
3 12	11 11.73	− 7 25.6	1.705	2.686	4.3	20.1
3 22	11 4.60	− 6 18.2	1.721	2.692	6.0	20.2
4 1	10 58.70	− 5 7.5	1.764	2.699	9.3	20.4
4 11	10 54.72	− 4 0.9	1.830	2.706	12.6	20.6

142786 2002 UB_{15} 3 8.1 65°.05 0°.0/ 7.9 18

2 1	11 39.00	− 0 56.5	1.548	2.356	17.0	20.1
2 11	11 34.71	+ 0 18.2	1.499	2.389	12.9	19.9
2 21	11 28.07	+ 1 52.7	1.471	2.422	8.2	19.7
3 2	11 19.91	+ 3 39.6	1.470	2.456	3.1	19.5
3 12	11 11.35	+ 5 28.2	1.497	2.488	2.0	19.5
3 22	11 3.51	+ 7 8.4	1.552	2.521	6.8	19.9
4 1	10 57.34	+ 8 32.2	1.634	2.553	11.0	20.2
4 11	10 53.45	+ 9 35.2	1.738	2.585	14.5	20.5

399353 2000 SO_{330} 3 8.1 195°.95 0°.0/ 7.9 17

2 1	11 40.93	+ 1 29.7	2.066	2.860	13.8	22.8
2 11	11 36.00	+ 2 7.3	1.974	2.857	10.6	22.6
2 21	11 28.94	+ 2 59.3	1.905	2.854	6.9	22.4
3 2	11 20.32	+ 4 1.7	1.864	2.850	2.7	22.1
3 12	11 11.01	+ 5 8.5	1.853	2.844	1.7	22.0
3 22	11 1.98	+ 6 12.9	1.871	2.838	6.0	22.3
4 1	10 54.15	+ 7 8.8	1.918	2.831	10.0	22.5
4 11	10 48.26	+ 7 51.7	1.988	2.824	13.4	22.7

17329 1277 T-2 3 8.1 150°.37 0°.0/ 7.9 18

2 1	11 36.14	+ 2 37.2	2.881	3.672	10.4	20.2
2 11	11 31.71	+ 3 8.9	2.797	3.680	7.9	20.0
2 21	11 25.86	+ 3 49.6	2.739	3.687	5.0	19.8
3 2	11 19.05	+ 4 36.2	2.709	3.695	1.9	19.6
3 12	11 11.87	+ 5 24.8	2.711	3.702	1.3	19.6
3 22	11 4.93	+ 6 11.1	2.742	3.708	4.4	19.8
4 1	10 58.84	+ 6 51.6	2.803	3.714	7.3	20.0
4 11	10 54.05	+ 7 23.3	2.890	3.720	9.8	20.2

201288 2002 SU_{16} 3 8.1 148°.93 0°.1/ 7.9 17

2 1	11 37.04	+ 2 52.6	2.286	3.087	12.4	21.1
2 11	11 32.78	+ 3 20.4	2.202	3.090	9.5	20.9
2 21	11 26.73	+ 3 59.4	2.142	3.093	6.1	20.7
3 2	11 19.43	+ 4 45.8	2.110	3.095	2.3	20.4
3 12	11 11.62	+ 5 34.6	2.107	3.098	1.6	20.4
3 22	11 4.10	+ 6 20.8	2.133	3.100	5.4	20.6
4 1	10 57.65	+ 6 59.7	2.187	3.102	8.8	20.9
4 11	10 52.84	+ 7 27.9	2.266	3.104	11.9	21.1

229222 2004 XX_3 3 8.1 122°.99 2°.8/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.74	+10 32.3	2.076	2.899	12.7	20.4
2 11	11 34.21	+11 21.8	2.003	2.905	9.5	20.3
2 21	11 27.70	+12 18.0	1.955	2.911	6.0	20.0
3 2	11 19.80	+13 14.7	1.935	2.917	3.1	19.9
3 12	11 11.39	+14 5.6	1.943	2.923	3.9	19.9
3 22	11 3.37	+14 45.0	1.980	2.929	7.2	20.1
4 1	10 56.60	+15 9.3	2.044	2.935	10.6	20.4
4 11	10 51.70	+15 17.1	2.130	2.940	13.5	20.6

9530 Kelleymichael 3 8.1 87°.95 0°.4/ 8.5 18

2 1	11 37.41	+ 1 26.1	2.068	2.868	13.5	18.7
2 11	11 33.23	+ 1 48.6	1.987	2.873	10.4	18.5
2 21	11 27.09	+ 2 24.1	1.929	2.878	6.7	18.3
3 2	11 19.58	+ 3 9.0	1.899	2.883	2.7	18.1
3 12	11 11.52	+ 3 58.2	1.897	2.888	1.5	18.0
3 22	11 3.81	+ 4 46.0	1.924	2.893	5.6	18.3
4 1	10 57.28	+ 5 27.0	1.978	2.898	9.3	18.5
4 11	10 52.56	+ 5 57.4	2.056	2.903	12.6	18.7

72311 2001 BU_{40} 3 8.1 133°.26 0°.9/ 8.9 18

2 1	11 41.85	− 0 36.0	2.006	2.793	14.4	20.6
2 11	11 36.57	− 0 11.2	1.931	2.808	11.1	20.4
2 21	11 29.19	+ 0 28.6	1.878	2.822	7.3	20.2
3 2	11 20.37	+ 1 19.8	1.853	2.836	3.2	19.9
3 12	11 11.02	+ 2 16.8	1.858	2.849	1.6	19.8
3 22	11 2.12	+ 3 13.5	1.892	2.862	5.6	20.1
4 1	10 54.55	+ 4 3.9	1.954	2.873	9.5	20.4
4 11	10 48.97	+ 4 43.7	2.040	2.884	12.8	20.6

334821 2003 SZ_{328} 3 8.1 208°.77 1°.0/ 6.9 17

2 1	11 37.24	+ 5 16.7	2.261	3.070	12.3	21.8
2 11	11 33.01	+ 5 57.9	2.173	3.066	9.3	21.6
2 21	11 26.92	+ 6 49.5	2.109	3.063	5.9	21.4
3 2	11 19.52	+ 7 47.0	2.073	3.059	2.2	21.2
3 12	11 11.55	+ 8 44.7	2.066	3.055	2.3	21.2
3 22	11 3.84	+ 9 36.9	2.089	3.050	5.9	21.4
4 1	10 57.20	+10 18.9	2.139	3.046	9.5	21.6
4 11	10 52.24	+10 47.5	2.214	3.041	12.5	21.8

447248 2005 UM_{221} 3 8.1 106°.76 0°.4/ 8.4 18

2 1	11 43.71	+ 1 32.0	1.499	2.309	17.4	22.0
2 11	11 38.60	+ 1 50.3	1.432	2.323	13.4	21.8
2 21	11 30.77	+ 2 25.3	1.386	2.337	8.6	21.5
3 2	11 21.03	+ 3 12.3	1.366	2.351	3.5	21.3
3 12	11 10.61	+ 4 4.4	1.372	2.364	2.0	21.2
3 22	11 0.83	+ 4 53.6	1.407	2.377	7.1	21.5
4 1	10 52.85	+ 5 33.3	1.466	2.390	11.7	21.8
4 11	10 47.48	+ 5 59.0	1.548	2.402	15.7	22.1

217051 2001 QP_{234} 3 8.1 185°.89 0°.3/ 7.7 17

2 1	11 37.76	+ 1 42.6	2.310	3.105	12.5	21.9
2 11	11 33.35	+ 2 38.4	2.220	3.105	9.5	21.7
2 21	11 27.13	+ 3 47.9	2.155	3.105	6.1	21.5
3 2	11 19.60	+ 5 6.6	2.118	3.103	2.3	21.2
3 12	11 11.51	+ 6 28.4	2.111	3.101	1.7	21.2
3 22	11 3.68	+ 7 46.5	2.134	3.099	5.6	21.5
4 1	10 56.89	+ 8 55.1	2.186	3.096	9.1	21.7
4 11	10 51.75	+ 9 50.1	2.263	3.092	12.2	21.9

169650 2002 JC_{47} 3 8.1 282°.91 0°.2/ 8.3 16

2 1	11 40.92	+ 2 46.5	1.567	2.383	16.5	20.2
2 11	11 36.71	+ 2 54.6	1.477	2.372	12.8	20.0
2 21	11 29.78	+ 3 17.6	1.408	2.361	8.3	19.7
3 2	11 20.75	+ 3 51.8	1.364	2.350	3.3	19.4
3 12	11 10.73	+ 4 31.4	1.347	2.339	2.0	19.2
3 22	11 1.01	+ 5 9.2	1.357	2.328	7.3	19.5
4 1	10 52.84	+ 5 38.9	1.392	2.317	12.1	19.8
4 11	10 47.18	+ 5 55.5	1.449	2.306	16.3	20.0

367486 2009 FH_{63} 3 8.1 288°.79 0°.4/ 8.4 17

2 1	11 37.58	+ 0 50.5	1.578	2.393	16.4	21.8
2 11	11 34.20	+ 1 19.1	1.482	2.376	12.8	21.5
2 21	11 28.21	+ 2 6.7	1.407	2.359	8.4	21.2
3 2	11 20.17	+ 3 9.7	1.357	2.342	3.4	20.8
3 12	11 11.10	+ 4 21.0	1.334	2.326	2.0	20.7
3 22	11 2.23	+ 5 31.6	1.337	2.309	7.2	21.0
4 1	10 54.80	+ 6 33.1	1.366	2.292	12.2	21.2
4 11	10 49.77	+ 7 18.9	1.417	2.276	16.5	21.4

338306 2002 VC_9 3 8.1 114°.17 3°.9/12.6 17

2 1	11 36.22	−10 4.9	2.355	3.098	13.8	21.0
2 11	11 32.15	−10 4.2	2.267	3.105	11.3	20.8
2 21	11 26.33	− 9 45.3	2.201	3.113	8.4	20.7
3 2	11 19.28	− 9 9.0	2.161	3.120	5.5	20.5
3 12	11 11.74	− 8 18.1	2.149	3.127	3.9	20.4
3 22	11 4.47	− 7 17.7	2.166	3.134	5.2	20.5
4 1	10 58.23	− 6 13.4	2.211	3.140	8.0	20.7
4 11	10 53.59	− 5 11.5	2.282	3.147	10.8	20.9

504289 2006 XC_{27} 3 8.1 353°.70 28°.9/17.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 39.00	−35 55.6	1.109	1.759	30.8	18.7
2 11	11 37.89	−41 9.2	1.048	1.741	30.1	18.5
2 21	11 32.44	−45 54.1	1.000	1.726	29.6	18.4
3 2	11 22.52	−49 51.5	0.965	1.715	29.2	18.3
3 12	11 9.16	−52 45.2	0.942	1.707	28.9	18.2
3 22	10 54.66	−54 25.9	0.930	1.703	28.9	18.2
4 1	10 42.26	−54 54.3	0.927	1.702	29.1	18.2
4 11	10 34.90	−54 22.2	0.933	1.705	29.3	18.2

362027 2008 YA_{73} 3 8.1 58°.49 3°.1/10.2 18

2 1	11 43.19	− 3 17.7	1.287	2.092	19.9	21.2
2 11	11 38.45	− 3 30.3	1.232	2.115	15.7	21.0
2 21	11 30.75	− 3 20.4	1.196	2.138	10.8	20.8
3 2	11 21.02	− 2 50.4	1.183	2.162	5.6	20.6
3 12	11 10.67	− 2 6.7	1.196	2.186	3.2	20.5
3 22	11 1.16	− 1 17.3	1.235	2.209	7.2	20.8
4 1	10 53.72	− 0 30.9	1.298	2.233	11.9	21.1
4 11	10 49.12	+ 0 5.7	1.383	2.257	15.9	21.4

382552 2001 VT_{53} 3 8.1 83°.71 5°.4/15.3 18

2 1	11 36.62	−16 34.6	2.507	3.205	14.1	20.9
2 11	11 32.29	−16 39.1	2.431	3.230	11.9	20.8
2 21	11 26.32	−16 23.0	2.377	3.254	9.4	20.7
3 2	11 19.25	−15 46.3	2.347	3.278	7.1	20.6
3 12	11 11.80	−14 51.6	2.345	3.301	5.5	20.5
3 22	11 4.70	−13 43.5	2.371	3.325	5.9	20.5
4 1	10 58.64	−12 28.0	2.425	3.348	7.7	20.7
4 11	10 54.14	−11 11.6	2.505	3.370	10.0	20.9

342879 2008 YV_{54} 3 8.1 183°.85 1°.5/ 9.7 17

2 1	11 38.91	− 1 23.1	2.525	3.301	12.1	20.9
2 11	11 34.07	− 1 24.5	2.432	3.301	9.5	20.7
2 21	11 27.51	− 1 14.5	2.363	3.301	6.4	20.6
3 2	11 19.75	− 0 54.7	2.321	3.300	3.2	20.3
3 12	11 11.46	− 0 28.3	2.310	3.300	1.8	20.2
3 22	11 3.42	+ 0 0.9	2.328	3.299	4.7	20.4
4 1	10 56.34	+ 0 28.9	2.375	3.298	7.9	20.6
4 11	10 50.82	+ 0 52.0	2.448	3.296	10.8	20.8

67616 2000 SH_{168} 3 8.1 68°.41 2°.9/10.2 18

2 1	11 41.78	− 2 57.6	1.480	2.278	18.1	18.5
2 11	11 37.29	− 3 10.6	1.407	2.286	14.3	18.2
2 21	11 30.05	− 3 3.9	1.354	2.295	9.9	18.0
3 2	11 20.81	− 2 39.2	1.325	2.303	5.2	17.8
3 12	11 10.79	− 2 1.4	1.322	2.311	3.0	17.6
3 22	11 1.29	− 1 17.4	1.346	2.320	6.8	17.9
4 1	10 53.54	− 0 34.8	1.395	2.328	11.4	18.2
4 11	10 48.38	− 0 0.2	1.467	2.337	15.4	18.4

33119 1998 BE_{15} 3 8.1 81°.81 5°.0/ 2.7 18

2 1	11 36.97	+13 51.6	1.782	2.621	13.7	18.2
2 11	11 33.24	+15 28.7	1.718	2.628	10.3	18.0
2 21	11 27.26	+17 12.2	1.679	2.634	6.9	17.8
3 2	11 19.69	+18 52.5	1.667	2.641	5.0	17.7
3 12	11 11.52	+20 19.6	1.683	2.647	6.5	17.8
3 22	11 3.79	+21 26.0	1.726	2.654	9.7	18.0
4 1	10 57.49	+22 7.8	1.793	2.660	13.0	18.3
4 11	10 53.30	+22 24.4	1.881	2.667	16.0	18.5

480755 2016 NY_{41} 3 8.1 242°.87 1°.4/ 6.1 17

2 1	11 35.52	+ 7 8.0	2.892	3.698	10.0	22.3
2 11	11 31.41	+ 7 59.6	2.788	3.681	7.5	22.1
2 21	11 25.80	+ 8 59.4	2.709	3.664	4.7	21.9
3 2	11 19.09	+10 3.3	2.660	3.646	2.0	21.7
3 12	11 11.88	+11 6.3	2.642	3.627	2.4	21.7
3 22	11 4.79	+12 3.7	2.654	3.608	5.4	21.8
4 1	10 58.46	+12 51.6	2.696	3.589	8.3	22.0
4 11	10 53.42	+13 27.1	2.762	3.569	10.9	22.1

286206 2001 UU_{88} 3 8.1 102°.89 2°.5/ 5.2 18

2 1	11 37.96	+11 11.4	2.418	3.237	11.3	21.0
2 11	11 33.31	+11 55.0	2.350	3.250	8.4	20.8
2 21	11 26.97	+12 43.3	2.308	3.263	5.3	20.6
3 2	11 19.51	+13 31.3	2.294	3.276	2.8	20.5
3 12	11 11.66	+14 13.6	2.310	3.289	3.5	20.5
3 22	11 4.18	+14 45.9	2.355	3.301	6.4	20.7
4 1	10 57.79	+15 5.5	2.427	3.314	9.3	20.9
4 11	10 53.00	+15 11.0	2.522	3.326	11.9	21.1

325169 2008 FZ_{50} 3 8.1 287°.03 3°.1/ 5.6 18

2 1	11 41.44	+10 56.5	1.704	2.533	14.7	20.9
2 11	11 36.82	+11 29.4	1.623	2.528	11.2	20.7
2 21	11 29.67	+12 9.5	1.564	2.522	7.2	20.4
3 2	11 20.67	+12 50.5	1.532	2.516	3.5	20.2
3 12	11 10.88	+13 25.0	1.528	2.510	4.3	20.2
3 22	11 1.49	+13 47.0	1.550	2.504	8.4	20.4
4 1	10 53.64	+13 52.6	1.598	2.499	12.4	20.6
4 11	10 48.13	+13 40.5	1.668	2.493	16.0	20.9

297268 1995 VJ_{15} 3 8.1 18°.33 6°.3/15.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 34.21	−16 59.4	2.253	2.962	15.2	20.2
2 11	11 30.83	−17 13.6	2.160	2.964	13.0	20.0
2 21	11 25.60	−17 5.1	2.088	2.966	10.5	19.8
3 2	11 19.05	−16 33.1	2.038	2.968	8.0	19.7
3 12	11 11.92	−15 39.3	2.015	2.971	6.4	19.6
3 22	11 5.04	−14 28.2	2.019	2.973	6.7	19.6
4 1	10 59.21	−13 6.6	2.050	2.976	8.7	19.7
4 11	10 55.07	−11 42.2	2.106	2.980	11.3	19.9

312067 2007 TM_{13} 3 8.1 169°.91 5°.2/ 2.9 18

2 1	11 46.05	+18 56.5	2.203	3.020	12.2	21.3
2 11	11 39.69	+19 54.6	2.132	3.026	9.4	21.2
2 21	11 31.18	+20 52.3	2.087	3.031	6.7	21.0
3 2	11 21.17	+21 42.5	2.070	3.035	5.2	20.9
3 12	11 10.62	+22 18.5	2.083	3.038	6.3	21.0
3 22	11 0.53	+22 36.2	2.124	3.040	8.9	21.2
4 1	10 51.84	+22 33.8	2.192	3.041	11.7	21.3
4 11	10 45.21	+22 12.6	2.282	3.041	14.3	21.5

292481 2006 ST_{393} 3 8.1 231°.53 0°.5/ 8.7 17

2 1	11 35.13	+ 0 18.9	2.560	3.349	11.6	21.5
2 11	11 31.24	+ 0 49.3	2.463	3.343	8.9	21.3
2 21	11 25.74	+ 1 31.7	2.391	3.337	5.8	21.1
3 2	11 19.09	+ 2 23.3	2.346	3.330	2.5	20.8
3 12	11 11.93	+ 3 19.7	2.332	3.323	1.3	20.7
3 22	11 4.97	+ 4 15.9	2.347	3.317	4.7	21.0
4 1	10 58.89	+ 5 7.1	2.391	3.310	8.0	21.2
4 11	10 54.26	+ 5 49.4	2.460	3.302	10.9	21.3

8266 Bertelli 3 8.1 177°.52 0°.1/ 8.0 18

2 1	11 43.39	+ 3 14.2	1.868	2.669	14.8	18.6
2 11	11 38.03	+ 3 33.2	1.784	2.671	11.3	18.4
2 21	11 30.33	+ 4 4.8	1.722	2.673	7.3	18.1
3 2	11 20.91	+ 4 45.1	1.688	2.674	2.8	17.9
3 12	11 10.77	+ 5 28.3	1.683	2.674	1.9	17.8
3 22	11 1.02	+ 6 8.4	1.706	2.673	6.4	18.1
4 1	10 52.69	+ 6 39.9	1.757	2.672	10.6	18.3
4 11	10 46.54	+ 6 59.4	1.831	2.671	14.2	18.6

374100 2004 RL_{280} 3 8.1 186°.66 0°.6/ 8.7 17

2 1	11 39.09	+ 0 55.6	2.199	2.991	13.1	22.1
2 11	11 34.46	+ 1 14.4	2.110	2.991	10.1	21.9
2 21	11 27.89	+ 1 45.8	2.044	2.991	6.6	21.6
3 2	11 19.94	+ 2 26.9	2.006	2.990	2.8	21.4
3 12	11 11.39	+ 3 12.8	1.997	2.989	1.5	21.3
3 22	11 3.14	+ 3 58.3	2.017	2.987	5.4	21.5
4 1	10 55.99	+ 4 38.4	2.066	2.985	9.1	21.8
4 11	10 50.62	+ 5 9.1	2.139	2.983	12.3	22.0

435256 2007 TM_{133} 3 8.1 56°.61 3°.6/12.2 17

2 1	11 34.64	− 9 7.3	2.177	2.934	14.3	20.7
2 11	11 31.11	− 8 54.0	2.091	2.940	11.6	20.6
2 21	11 25.75	− 8 20.9	2.026	2.946	8.5	20.4
3 2	11 19.11	− 7 29.4	1.987	2.952	5.4	20.2
3 12	11 11.94	− 6 23.6	1.976	2.958	3.6	20.1
3 22	11 5.07	− 5 9.2	1.993	2.964	5.3	20.2
4 1	10 59.28	− 3 53.1	2.038	2.971	8.4	20.4
4 11	10 55.16	− 2 42.0	2.109	2.977	11.4	20.6

422228 2014 RP_{62} 3 8.1 132°.03 3°.9/ 3.7 18

2 1	11 41.11	+13 5.2	2.135	2.956	12.4	22.1
2 11	11 35.92	+14 25.7	2.073	2.973	9.3	22.0
2 21	11 28.75	+15 51.0	2.037	2.990	6.1	21.8
3 2	11 20.23	+17 13.6	2.029	3.005	4.0	21.7
3 12	11 11.25	+18 25.8	2.052	3.020	5.1	21.8
3 22	11 2.73	+19 21.8	2.103	3.034	8.1	22.0
4 1	10 55.51	+19 58.4	2.181	3.047	11.1	22.2
4 11	10 50.19	+20 15.0	2.281	3.060	13.7	22.4

267495 2002 JR_{16} 3 8.1 280°.22 3°.5/ 4.3 17

2 1	11 36.59	+11 3.3	1.972	2.803	12.9	20.4
2 11	11 32.94	+12 13.6	1.880	2.786	9.8	20.1
2 21	11 27.14	+13 33.3	1.812	2.769	6.3	19.9
3 2	11 19.72	+14 55.3	1.771	2.752	3.7	19.7
3 12	11 11.52	+16 11.4	1.759	2.735	4.9	19.7
3 22	11 3.53	+17 14.0	1.774	2.717	8.4	19.9
4 1	10 56.72	+17 57.8	1.816	2.700	12.1	20.1
4 11	10 51.86	+18 20.4	1.878	2.683	15.3	20.3

490335 2009 CN_{25} 3 8.1 65°.73 0°.1/ 8.2 17

2 1	11 39.74	+ 3 17.1	2.101	2.903	13.3	21.9
2 11	11 34.86	+ 3 24.2	2.031	2.918	10.2	21.7
2 21	11 28.06	+ 3 41.5	1.984	2.934	6.5	21.5
3 2	11 19.97	+ 4 5.8	1.965	2.950	2.5	21.3
3 12	11 11.43	+ 4 32.7	1.974	2.966	1.5	21.2
3 22	11 3.33	+ 4 57.5	2.013	2.982	5.5	21.5
4 1	10 56.49	+ 5 16.3	2.079	2.998	9.0	21.8
4 11	10 51.48	+ 5 26.3	2.170	3.014	12.1	22.0

271674 2004 RG_{73} 3 8.1 236°.69 0°.0/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 36.11	− 0 1.0	2.264	3.057	12.8	21.4
2 11	11 32.27	+ 1 3.2	2.161	3.044	9.8	21.1
2 21	11 26.56	+ 2 24.2	2.083	3.031	6.4	20.9
3 2	11 19.46	+ 3 57.7	2.032	3.018	2.5	20.6
3 12	11 11.70	+ 5 36.9	2.012	3.004	1.6	20.5
3 22	11 4.11	+ 7 14.4	2.023	2.989	5.7	20.8
4 1	10 57.50	+ 8 42.8	2.062	2.974	9.4	21.0
4 11	10 52.54	+ 9 56.7	2.126	2.959	12.8	21.1

211602 2003 SQ_{320} 3 8.1 110°.37 2°.1/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.60	− 2 28.2	1.625	2.421	16.8	20.7
2 11	11 36.21	− 2 23.7	1.546	2.426	13.3	20.4
2 21	11 29.29	− 2 0.4	1.489	2.431	9.0	20.2
3 2	11 20.54	− 1 20.6	1.456	2.436	4.5	19.9
3 12	11 11.04	− 0 29.8	1.450	2.441	2.4	19.8
3 22	11 1.97	+ 0 24.9	1.472	2.446	6.4	20.1
4 1	10 54.46	+ 1 15.9	1.520	2.450	10.9	20.3
4 11	10 49.32	+ 1 57.1	1.591	2.455	14.8	20.6

237500 2000 QU_{134} 3 8.1 228°.80 0°.8/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.01	+ 4 50.0	1.951	2.755	14.1	21.7
2 11	11 37.84	+ 5 18.9	1.852	2.743	10.8	21.4
2 21	11 30.30	+ 5 59.8	1.777	2.729	6.9	21.1
3 2	11 20.96	+ 6 48.4	1.729	2.715	2.6	20.8
3 12	11 10.74	+ 7 38.6	1.710	2.700	2.3	20.8
3 22	11 0.74	+ 8 24.0	1.720	2.684	6.8	21.0
4 1	10 52.02	+ 8 59.0	1.758	2.667	11.0	21.2
4 11	10 45.40	+ 9 20.0	1.819	2.650	14.7	21.4

267487 2002 GD_{139} 3 8.1 22°.65 2°.1/10.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.73	− 3 24.8	1.668	2.467	16.3	20.5
2 11	11 32.44	− 3 7.8	1.590	2.471	12.9	20.2
2 21	11 26.85	− 2 30.6	1.533	2.475	8.8	20.0
3 2	11 19.59	− 1 36.0	1.500	2.480	4.4	19.7
3 12	11 11.66	− 0 30.1	1.495	2.485	2.3	19.6
3 22	11 4.13	+ 0 39.4	1.517	2.491	6.1	19.9
4 1	10 58.02	+ 1 44.4	1.564	2.497	10.4	20.1
4 11	10 54.04	+ 2 38.5	1.635	2.504	14.2	20.4

209020 2003 EM_{13} 3 8.1 43°.35 1°.2/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 34.48	+ 5 11.5	2.230	3.044	12.2	20.1
2 11	11 30.92	+ 6 5.3	2.150	3.047	9.2	19.9
2 21	11 25.61	+ 7 9.9	2.094	3.050	5.8	19.7
3 2	11 19.07	+ 8 20.4	2.067	3.053	2.2	19.5
3 12	11 12.03	+ 9 30.4	2.069	3.057	2.4	19.5
3 22	11 5.29	+10 33.7	2.099	3.060	6.0	19.7
4 1	10 59.60	+11 25.4	2.157	3.063	9.4	19.9
4 11	10 55.53	+12 2.4	2.239	3.067	12.4	20.1

209472 2004 GB_{62} 3 8.1 68°.94 1°.8/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.25	+ 8 25.4	2.152	2.969	12.5	20.7
2 11	11 33.73	+ 8 58.0	2.084	2.982	9.4	20.5
2 21	11 27.35	+ 9 37.7	2.039	2.995	5.9	20.3
3 2	11 19.72	+10 19.7	2.023	3.008	2.5	20.1
3 12	11 11.65	+10 58.3	2.036	3.022	2.9	20.1
3 22	11 4.00	+11 28.9	2.077	3.035	6.3	20.4
4 1	10 57.55	+11 48.1	2.146	3.048	9.6	20.6
4 11	10 52.87	+11 54.0	2.238	3.061	12.5	20.8

432927 2011 SW_{253} 3 8.1 255°.22 2°.3/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 34.45	− 5 48.4	2.474	3.240	12.6	21.3
2 11	11 30.82	− 5 29.0	2.374	3.234	10.0	21.1
2 21	11 25.54	− 4 53.5	2.298	3.227	7.1	20.9
3 2	11 19.06	− 4 3.8	2.248	3.221	4.0	20.7
3 12	11 12.05	− 3 3.5	2.227	3.215	2.4	20.5
3 22	11 5.22	− 1 57.7	2.236	3.208	4.7	20.7
4 1	10 59.30	− 0 52.2	2.273	3.201	7.8	20.9
4 11	10 54.87	+ 0 7.8	2.336	3.195	10.8	21.0

495014 2010 RG_{73} 3 8.1 175°.94 1°.7/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.41	+ 7 18.8	2.166	2.975	12.7	22.9
2 11	11 36.23	+ 8 4.1	2.084	2.978	9.6	22.7
2 21	11 29.04	+ 8 58.5	2.026	2.980	6.1	22.5
3 2	11 20.41	+ 9 56.9	1.996	2.981	2.5	22.2
3 12	11 11.20	+10 52.9	1.996	2.982	2.9	22.3
3 22	11 2.33	+11 40.6	2.026	2.982	6.6	22.5
4 1	10 54.67	+12 15.9	2.084	2.982	10.1	22.7
4 11	10 48.87	+12 36.2	2.165	2.980	13.2	22.9

464380 2016 AW_{184} 3 8.1 77°.99 1°.4/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.64	+ 0 0.1	1.513	2.317	17.5	21.4
2 11	11 38.48	+ 0 1.2	1.450	2.336	13.5	21.2
2 21	11 30.68	+ 0 19.2	1.408	2.355	9.0	21.0
3 2	11 21.06	+ 0 50.9	1.391	2.374	4.0	20.8
3 12	11 10.83	+ 1 30.0	1.401	2.393	2.0	20.7
3 22	11 1.27	+ 2 9.9	1.439	2.411	6.7	21.0
4 1	10 53.52	+ 2 44.0	1.502	2.430	11.2	21.3
4 11	10 48.32	+ 3 7.5	1.588	2.448	15.0	21.6

217085 2001 TH_{236} 3 8.1 144°.55 2°.9/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 39.48	+10 35.4	2.253	3.071	12.0	21.4
2 11	11 34.64	+11 41.7	2.182	3.082	9.0	21.2
2 21	11 27.95	+12 54.5	2.137	3.092	5.7	21.1
3 2	11 19.96	+14 7.6	2.120	3.102	3.1	20.9
3 12	11 11.51	+15 14.2	2.134	3.111	4.0	21.0
3 22	11 3.43	+16 8.6	2.177	3.120	7.1	21.2
4 1	10 56.51	+16 47.0	2.247	3.128	10.2	21.4
4 11	10 51.36	+17 8.1	2.340	3.135	12.9	21.6

294438 2007 VV_{269} 3 8.1 9°.98 11°.1/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.95	+28 46.8	1.419	2.261	16.4	20.1
2 11	11 40.10	+30 16.2	1.368	2.261	13.7	19.9
2 21	11 32.01	+31 35.2	1.338	2.262	11.6	19.8
3 2	11 21.62	+32 30.8	1.331	2.263	11.2	19.8
3 12	11 10.49	+32 52.7	1.349	2.265	12.6	19.9
3 22	11 0.22	+32 37.2	1.388	2.267	15.2	20.0
4 1	10 52.19	+31 46.3	1.448	2.269	18.1	20.2
4 11	10 47.23	+30 26.2	1.525	2.272	20.7	20.4

345259 2005 VT_{17} 3 8.1 117°.86 5°.2/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.63	+14 1.6	1.485	2.323	16.0	20.6
2 11	11 38.67	+15 14.2	1.425	2.333	12.1	20.3
2 21	11 30.91	+16 32.6	1.388	2.343	8.1	20.1
3 2	11 21.18	+17 46.7	1.376	2.353	5.3	20.0
3 12	11 10.76	+18 46.2	1.392	2.363	6.7	20.1
3 22	11 1.03	+19 23.8	1.433	2.372	10.4	20.3
4 1	10 53.18	+19 36.5	1.499	2.380	14.3	20.6
4 11	10 48.01	+19 24.9	1.584	2.388	17.7	20.8

157809 1995 UK_{50} 3 8.1 199°.02 0°.9/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.43	− 0 36.6	2.463	3.244	12.2	21.4
2 11	11 33.80	− 0 14.5	2.366	3.240	9.5	21.2
2 21	11 27.43	+ 0 20.2	2.294	3.237	6.3	21.0
3 2	11 19.80	+ 1 5.0	2.250	3.232	2.8	20.8
3 12	11 11.61	+ 1 55.7	2.236	3.227	1.4	20.7
3 22	11 3.64	+ 2 47.3	2.252	3.221	4.9	20.9
4 1	10 56.64	+ 3 34.9	2.296	3.215	8.3	21.1
4 11	10 51.21	+ 4 14.4	2.366	3.209	11.3	21.3

463552 2013 RX_{50} 3 8.1 237°.67 2°.0/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.33	− 5 37.2	2.121	2.894	14.2	22.1
2 11	11 32.58	− 4 54.6	2.017	2.883	11.3	21.9
2 21	11 26.85	− 3 51.5	1.936	2.871	7.8	21.7
3 2	11 19.63	− 2 30.1	1.882	2.859	4.1	21.4
3 12	11 11.70	− 0 56.2	1.857	2.847	2.1	21.3
3 22	11 3.95	+ 0 42.8	1.861	2.834	5.4	21.5
4 1	10 57.26	+ 2 18.7	1.894	2.820	9.3	21.7
4 11	10 52.34	+ 3 44.3	1.952	2.807	12.8	21.8

73811 1995 UN_{15} 3 8.1 268°.68 4°.9/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.70	+14 43.1	1.785	2.617	14.0	19.7
2 11	11 37.19	+15 47.3	1.690	2.596	10.8	19.5
2 21	11 30.09	+16 58.1	1.619	2.573	7.3	19.2
3 2	11 20.96	+18 7.4	1.575	2.551	5.0	19.0
3 12	11 10.83	+19 5.8	1.559	2.528	6.4	19.1
3 22	11 0.90	+19 45.8	1.569	2.504	10.0	19.2
4 1	10 52.37	+20 3.0	1.604	2.480	13.9	19.4
4 11	10 46.18	+19 56.4	1.660	2.456	17.4	19.6

298798 2004 QA_{14} 3 8.1 184°.71 3°.5/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.40	−11 56.6	2.108	2.843	15.4	21.2
2 11	11 34.87	−10 59.8	2.008	2.844	12.6	21.0
2 21	11 28.27	− 9 36.5	1.930	2.844	9.3	20.8
3 2	11 20.16	− 7 48.6	1.879	2.843	5.7	20.6
3 12	11 11.39	− 5 42.2	1.857	2.841	3.5	20.4
3 22	11 2.88	− 3 26.2	1.866	2.838	5.5	20.6
4 1	10 55.56	− 1 10.9	1.906	2.834	9.2	20.8
4 11	10 50.13	+ 0 54.0	1.973	2.829	12.6	21.0

271560 2004 JJ_{34} 3 8.1 238°.11 2°.8/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.24	+10 21.7	2.260	3.078	12.0	21.6
2 11	11 34.69	+11 21.4	2.163	3.062	9.1	21.4
2 21	11 28.15	+12 29.3	2.092	3.047	5.8	21.2
3 2	11 20.13	+13 39.5	2.048	3.030	3.1	21.0
3 12	11 11.40	+14 45.0	2.035	3.013	4.0	21.0
3 22	11 2.86	+15 39.9	2.051	2.995	7.3	21.2
4 1	10 55.37	+16 19.4	2.093	2.977	10.7	21.3
4 11	10 49.64	+16 41.3	2.159	2.958	13.7	21.5

11566 1993 FU_{51} 3 8.1 239°.84 2°.4/ 5.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.18	+10 8.9	2.113	2.932	12.6	19.5
2 11	11 35.44	+10 43.9	2.024	2.924	9.6	19.3
2 21	11 28.63	+11 25.7	1.960	2.916	6.1	19.1
3 2	11 20.30	+12 9.1	1.923	2.907	2.9	18.8
3 12	11 11.31	+12 48.1	1.916	2.898	3.6	18.9
3 22	11 2.61	+13 17.4	1.937	2.889	7.1	19.1
4 1	10 55.11	+13 33.3	1.984	2.880	10.6	19.3
4 11	10 49.49	+13 34.0	2.055	2.871	13.8	19.4

92052 1999 VU_{206} 3 8.1 89°.33 4°.1/ 4.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.83	+14 56.5	1.968	2.795	13.1	19.0
2 11	11 36.60	+15 43.3	1.907	2.810	9.9	18.8
2 21	11 29.26	+16 32.4	1.872	2.825	6.6	18.6
3 2	11 20.48	+17 17.2	1.863	2.839	4.2	18.5
3 12	11 11.27	+17 51.1	1.883	2.854	5.2	18.6
3 22	11 2.60	+18 9.6	1.931	2.868	8.2	18.8
4 1	10 55.37	+18 10.6	2.005	2.883	11.4	19.0
4 11	10 50.20	+17 54.4	2.101	2.897	14.2	19.2

431272 2006 UZ_{93} 3 8.1 69°.41 6°.9/29.4 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.37	+26 34.9	2.331	3.154	11.5	21.1
2 11	11 36.11	+27 32.5	2.273	3.159	9.3	21.0
2 21	11 28.89	+28 23.8	2.239	3.165	7.5	20.9
3 2	11 20.34	+29 1.9	2.233	3.170	7.0	20.9
3 12	11 11.37	+29 21.2	2.254	3.176	8.0	20.9
3 22	11 2.89	+29 19.0	2.302	3.181	10.0	21.1
4 1	10 55.72	+28 55.2	2.374	3.187	12.1	21.2
4 11	10 50.47	+28 11.9	2.466	3.192	14.1	21.4

286662 2002 ES_{103} 3 8.1 200°.71 0°.0/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.35	+ 1 36.3	2.216	3.013	12.9	21.8
2 11	11 33.18	+ 2 15.8	2.125	3.011	9.9	21.6
2 21	11 27.13	+ 3 8.8	2.058	3.008	6.4	21.3
3 2	11 19.72	+ 4 11.2	2.019	3.005	2.5	21.1
3 12	11 11.72	+ 5 17.4	2.010	3.001	1.6	21.0
3 22	11 3.98	+ 6 21.3	2.030	2.997	5.5	21.3
4 1	10 57.31	+ 7 17.3	2.077	2.993	9.2	21.5
4 11	10 52.34	+ 8 1.0	2.150	2.988	12.4	21.7

464073 2014 WZ_{274} 3 8.1 132°.73 0°.7/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.00	− 0 58.9	2.165	2.951	13.5	22.1
2 11	11 34.33	− 0 16.6	2.088	2.965	10.4	21.9
2 21	11 27.79	+ 0 40.9	2.035	2.979	6.8	21.7
3 2	11 19.94	+ 1 49.6	2.009	2.992	2.9	21.5
3 12	11 11.61	+ 3 3.5	2.013	3.004	1.4	21.4
3 22	11 3.66	+ 4 16.1	2.047	3.016	5.3	21.7
4 1	10 56.88	+ 5 21.2	2.109	3.027	8.9	21.9
4 11	10 51.87	+ 6 14.5	2.196	3.038	12.1	22.1

5142 Okutama 3 8.1 102°.10 1°.9/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.56	− 4 22.9	2.002	2.775	14.9	17.5
2 11	11 35.56	− 3 52.7	1.934	2.801	11.6	17.3
2 21	11 28.56	− 3 4.5	1.890	2.825	7.9	17.1
3 2	11 20.22	− 2 1.7	1.872	2.850	4.0	16.9
3 12	11 11.45	− 0 50.2	1.883	2.873	2.1	16.8
3 22	11 3.18	+ 0 23.2	1.924	2.896	5.3	17.1
4 1	10 56.24	+ 1 31.7	1.993	2.918	9.0	17.3
4 11	10 51.23	+ 2 29.9	2.087	2.940	12.2	17.6

229151 2004 SY_{37} 3 8.1 144°.73 2°.1/ 5.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.34	+ 8 20.9	2.124	2.942	12.6	20.6
2 11	11 33.93	+ 9 12.2	2.048	2.947	9.5	20.4
2 21	11 27.59	+10 12.0	1.996	2.952	6.0	20.2
3 2	11 19.88	+11 14.6	1.972	2.957	2.7	20.0
3 12	11 11.65	+12 13.5	1.978	2.962	3.3	20.1
3 22	11 3.77	+13 2.8	2.012	2.966	6.8	20.3
4 1	10 57.08	+13 38.3	2.073	2.970	10.2	20.5
4 11	10 52.20	+13 57.9	2.158	2.974	13.2	20.7

503117 2015 FH_{329} 3 8.1 171°.78 4°.2/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.19	+18 4.2	2.763	3.586	9.9	21.2
2 11	11 32.68	+19 5.3	2.690	3.589	7.5	21.1
2 21	11 26.61	+20 7.0	2.644	3.591	5.3	20.9
3 2	11 19.47	+21 3.7	2.627	3.592	4.2	20.9
3 12	11 11.91	+21 50.2	2.639	3.594	5.2	20.9
3 22	11 4.63	+22 22.8	2.681	3.595	7.3	21.1
4 1	10 58.29	+22 39.2	2.748	3.595	9.7	21.2
4 11	10 53.40	+22 39.4	2.838	3.596	11.8	21.4

472877 2015 FO_{307} 3 8.1 225°.70 3°.1/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.91	+12 48.5	2.570	3.393	10.5	21.0
2 11	11 31.86	+13 48.4	2.486	3.387	7.9	20.8
2 21	11 26.18	+14 53.2	2.427	3.382	5.2	20.6
3 2	11 19.33	+15 57.3	2.397	3.376	3.2	20.5
3 12	11 11.99	+16 55.1	2.397	3.369	4.2	20.5
3 22	11 4.87	+17 41.5	2.426	3.363	6.8	20.7
4 1	10 58.69	+18 13.4	2.482	3.356	9.6	20.8
4 11	10 54.00	+18 29.3	2.561	3.349	12.1	21.0

489545 2007 RW_{258} 3 8.1 144°.74 3°.8/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.43	+13 30.8	2.009	2.828	13.2	21.8
2 11	11 38.59	+14 26.9	1.942	2.841	10.0	21.7
2 21	11 30.55	+15 27.3	1.900	2.853	6.5	21.5
3 2	11 21.02	+16 24.7	1.886	2.864	4.0	21.3
3 12	11 10.95	+17 12.2	1.901	2.874	5.0	21.4
3 22	11 1.40	+17 44.4	1.946	2.883	8.2	21.6
4 1	10 53.30	+17 58.5	2.016	2.892	11.4	21.8
4 11	10 47.31	+17 54.6	2.109	2.900	14.3	22.0

153857 2001 XJ_{62} 3 8.1 7°.53 9°.2/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 36.81	+23 7.5	1.460	2.316	15.3	19.1
2 11	11 33.75	+24 59.8	1.407	2.316	12.2	18.9
2 21	11 27.91	+26 49.1	1.377	2.318	9.8	18.8
3 2	11 20.09	+28 22.6	1.372	2.320	9.3	18.7
3 12	11 11.53	+29 28.7	1.391	2.323	11.0	18.8
3 22	11 3.57	+30 1.2	1.433	2.326	13.9	19.0
4 1	10 57.44	+29 59.1	1.495	2.330	16.9	19.2
4 11	10 53.90	+29 25.8	1.575	2.335	19.6	19.4

124625 2001 SS_{57} 3 8.1 113°.36 2°.5/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.37	+ 8 58.7	1.609	2.430	15.8	19.9
2 11	11 39.71	+ 9 37.2	1.546	2.446	11.9	19.7
2 21	11 31.44	+10 24.6	1.506	2.462	7.5	19.5
3 2	11 21.39	+11 14.0	1.492	2.477	3.3	19.3
3 12	11 10.74	+11 57.6	1.507	2.491	3.9	19.3
3 22	11 0.76	+12 29.0	1.549	2.506	8.1	19.6
4 1	10 52.57	+12 44.2	1.617	2.519	12.2	19.9
4 11	10 46.89	+12 42.2	1.706	2.532	15.7	20.1

66218 1999 CU_{43} 3 8.1 67°.36 1°.4/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.87	+ 8 8.7	2.086	2.899	13.0	18.5
2 11	11 35.82	+ 8 22.2	2.011	2.907	9.8	18.3
2 21	11 28.77	+ 8 42.5	1.960	2.915	6.2	18.1
3 2	11 20.33	+ 9 5.4	1.937	2.923	2.4	17.8
3 12	11 11.39	+ 9 26.1	1.943	2.931	2.5	17.9
3 22	11 2.87	+ 9 40.3	1.978	2.939	6.2	18.1
4 1	10 55.63	+ 9 44.9	2.040	2.947	9.8	18.3
4 11	10 50.29	+ 9 38.2	2.126	2.955	12.9	18.5

461999 2006 WM_{143} 3 8.1 194°.77 0°.1/ 7.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.06	+ 2 18.6	1.935	2.739	14.2	21.8
2 11	11 34.74	+ 2 53.8	1.849	2.738	10.9	21.6
2 21	11 28.25	+ 3 43.3	1.785	2.737	7.0	21.4
3 2	11 20.19	+ 4 42.7	1.749	2.735	2.7	21.1
3 12	11 11.45	+ 5 45.6	1.741	2.733	1.8	21.0
3 22	11 3.02	+ 6 45.3	1.763	2.730	6.2	21.3
4 1	10 55.87	+ 7 35.6	1.811	2.727	10.3	21.5
4 11	10 50.69	+ 8 12.2	1.882	2.724	13.8	21.7

522425 2016 CF_{314} 3 8.1 295°.45 3°.2/ 5.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.92	+10 53.8	1.794	2.625	14.0	21.3
2 11	11 34.85	+11 40.2	1.710	2.616	10.6	21.0
2 21	11 28.44	+12 34.6	1.650	2.607	6.8	20.8
3 2	11 20.29	+13 30.4	1.616	2.599	3.6	20.6
3 12	11 11.38	+14 19.9	1.610	2.591	4.5	20.6
3 22	11 2.81	+14 56.4	1.631	2.582	8.3	20.8
4 1	10 55.62	+15 15.7	1.678	2.574	12.2	21.0
4 11	10 50.59	+15 16.0	1.746	2.566	15.6	21.2

424669 2008 RZ_{57} 3 8.1 291°.13 0°.7/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.12	+ 5 7.1	1.880	2.695	14.1	21.4
2 11	11 34.92	+ 5 26.0	1.788	2.684	10.8	21.2
2 21	11 28.45	+ 5 56.2	1.719	2.673	6.9	20.9
3 2	11 20.30	+ 6 33.5	1.676	2.662	2.6	20.6
3 12	11 11.37	+ 7 12.2	1.661	2.652	2.2	20.6
3 22	11 2.70	+ 7 46.4	1.675	2.641	6.6	20.8
4 1	10 55.31	+ 8 11.2	1.715	2.631	10.8	21.0
4 11	10 49.98	+ 8 22.9	1.777	2.620	14.4	21.3

364580 2007 RB_{54} 3 8.1 124°.23 2°.7/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.72	− 5 28.3	1.730	2.510	16.6	21.9
2 11	11 35.40	− 5 8.2	1.652	2.520	13.2	21.7
2 21	11 28.72	− 4 26.4	1.595	2.530	9.2	21.4
3 2	11 20.37	− 3 25.6	1.564	2.540	4.9	21.2
3 12	11 11.35	− 2 11.8	1.560	2.549	2.8	21.1
3 22	11 2.77	− 0 52.7	1.584	2.557	6.1	21.3
4 1	10 55.65	+ 0 23.0	1.635	2.566	10.2	21.6
4 11	10 50.73	+ 1 28.3	1.710	2.573	13.9	21.8

366396 2001 QK_{206} 3 8.1 216°.25 0°.5/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.52	+ 1 26.1	2.427	3.210	12.3	23.3
2 11	11 36.24	+ 1 41.6	2.324	3.200	9.5	23.1
2 21	11 29.06	+ 2 8.4	2.245	3.190	6.2	22.9
3 2	11 20.49	+ 2 43.8	2.195	3.178	2.6	22.6
3 12	11 11.26	+ 3 23.6	2.175	3.166	1.4	22.5
3 22	11 2.20	+ 4 3.2	2.185	3.153	5.2	22.7
4 1	10 54.15	+ 4 38.2	2.225	3.139	8.7	22.9
4 11	10 47.77	+ 5 4.8	2.289	3.125	11.9	23.1

55213 2001 RC_{49} 3 8.1 237°.25 14°.9/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 50.28	+47 6.1	1.845	2.622	15.8	18.5
2 11	11 44.27	+49 4.2	1.816	2.621	15.1	18.4
2 21	11 34.73	+50 37.9	1.808	2.619	14.9	18.4
3 2	11 22.71	+51 35.5	1.820	2.618	15.5	18.4
3 12	11 9.94	+51 50.4	1.852	2.617	16.6	18.5
3 22	10 58.21	+51 21.9	1.902	2.615	17.9	18.6
4 1	10 49.02	+50 14.5	1.966	2.614	19.3	18.7
4 11	10 43.20	+48 35.9	2.044	2.613	20.6	18.9

66651 1999 RQ_{252} 3 8.1 30°.94 4°.5/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 37.82	− 8 8.8	1.751	2.522	16.8	18.3
2 11	11 33.99	− 8 28.7	1.671	2.528	13.7	18.1
2 21	11 27.86	− 8 27.8	1.611	2.534	10.1	17.9
3 2	11 20.06	− 8 6.1	1.575	2.540	6.5	17.7
3 12	11 11.55	− 7 26.9	1.565	2.547	4.5	17.6
3 22	11 3.43	− 6 35.9	1.583	2.554	6.4	17.7
4 1	10 56.69	− 5 40.4	1.626	2.561	9.9	17.9
4 11	10 52.10	− 4 47.9	1.694	2.569	13.4	18.2

383352 2006 RS_{28} 3 8.1 79°.01 1°.7/10.1 18

2 1	11 34.71	− 4 4.6	2.248	3.027	13.3	21.1
2 11	11 31.09	− 3 31.2	2.165	3.035	10.4	21.0
2 21	11 25.74	− 2 41.2	2.106	3.043	7.1	20.8
3 2	11 19.18	− 1 37.5	2.073	3.051	3.6	20.5
3 12	11 12.13	− 0 25.2	2.069	3.059	1.8	20.4
3 22	11 5.39	+ 0 49.5	2.094	3.067	4.9	20.7
4 1	10 59.69	+ 2 0.3	2.148	3.075	8.3	20.9
4 11	10 55.60	+ 3 1.9	2.226	3.083	11.4	21.1

341310 2007 ST_{7} 3 8.1 240°.54 0°.6/ 7.5 17

2 1	11 36.53	+ 3 54.2	2.284	3.089	12.3	20.8
2 11	11 32.53	+ 4 30.9	2.191	3.083	9.4	20.6
2 21	11 26.72	+ 5 18.8	2.124	3.076	5.9	20.3
3 2	11 19.59	+ 6 13.9	2.083	3.070	2.2	20.1
3 12	11 11.88	+ 7 10.7	2.073	3.063	1.9	20.0
3 22	11 4.41	+ 8 3.8	2.091	3.056	5.6	20.3
4 1	10 57.95	+ 8 48.1	2.138	3.049	9.2	20.5
4 11	10 53.14	+ 9 20.1	2.208	3.042	12.3	20.7

360026 2013 AN_{22} 3 8.1 12°.41 0°.7/ 8.6 18

2 1	11 38.68	+ 1 55.5	1.133	1.972	19.9	20.9
2 11	11 35.67	+ 1 57.2	1.067	1.974	15.5	20.7
2 21	11 29.43	+ 2 18.6	1.020	1.976	10.1	20.4
3 2	11 20.77	+ 2 55.4	0.994	1.980	4.2	20.0
3 12	11 11.14	+ 3 39.7	0.993	1.985	2.3	19.9
3 22	11 2.14	+ 4 22.2	1.015	1.991	8.2	20.3
4 1	10 55.24	+ 4 54.7	1.061	1.997	13.7	20.6
4 11	10 51.40	+ 5 11.6	1.125	2.005	18.4	20.9

349163 2007 PA_{40} 3 8.1 242°.47 1°.2/ 7.2 17

2 1	11 43.45	+ 5 53.3	1.785	2.597	14.9	21.7
2 11	11 38.45	+ 6 19.4	1.688	2.582	11.5	21.4
2 21	11 30.87	+ 6 57.4	1.613	2.567	7.3	21.1
3 2	11 21.30	+ 7 42.7	1.565	2.551	2.8	20.8
3 12	11 10.76	+ 8 28.4	1.545	2.535	2.7	20.8
3 22	11 0.43	+ 9 8.0	1.554	2.518	7.4	21.0
4 1	10 51.50	+ 9 35.7	1.590	2.500	11.9	21.2
4 11	10 44.88	+ 9 48.1	1.647	2.482	15.8	21.4

68408 2001 QH_{137} 3 8.1 226°.14 4°.0/11.9 17

2 1	11 39.52	− 8 11.7	2.076	2.832	15.0	19.8
2 11	11 35.08	− 8 21.9	1.976	2.825	12.3	19.6
2 21	11 28.51	− 8 13.6	1.898	2.817	9.0	19.3
3 2	11 20.33	− 7 46.8	1.845	2.809	5.8	19.1
3 12	11 11.39	− 7 4.3	1.820	2.801	4.0	19.0
3 22	11 2.65	− 6 10.9	1.823	2.792	5.9	19.1
4 1	10 55.06	− 5 13.0	1.854	2.783	9.3	19.3
4 11	10 49.36	− 4 17.5	1.910	2.774	12.6	19.5

174667 2003 SN_{232} 3 8.1 211°.88 1°.3/ 6.9 17

2 1	11 41.20	+ 5 38.3	2.009	2.817	13.6	21.2
2 11	11 36.36	+ 6 21.2	1.917	2.810	10.4	21.0
2 21	11 29.31	+ 7 15.8	1.849	2.803	6.6	20.8
3 2	11 20.63	+ 8 17.1	1.809	2.795	2.5	20.5
3 12	11 11.22	+ 9 18.3	1.798	2.786	2.7	20.5
3 22	11 2.06	+10 12.8	1.816	2.776	6.8	20.7
4 1	10 54.15	+10 55.2	1.861	2.766	10.7	20.9
4 11	10 48.23	+11 22.1	1.930	2.755	14.2	21.1

209398 2004 ED_{78} 3 8.1 19°.33 0°.6/ 7.6 18

2 1	11 35.09	+ 3 42.9	1.748	2.570	14.7	19.9
2 11	11 31.83	+ 4 16.9	1.677	2.577	11.2	19.7
2 21	11 26.41	+ 5 4.4	1.628	2.583	7.1	19.4
3 2	11 19.48	+ 6 0.3	1.604	2.591	2.6	19.2
3 12	11 11.98	+ 6 57.9	1.608	2.599	2.1	19.2
3 22	11 4.89	+ 7 50.1	1.640	2.608	6.5	19.5
4 1	10 59.16	+ 8 31.2	1.697	2.617	10.6	19.7
4 11	10 55.43	+ 8 57.4	1.777	2.627	14.1	19.9

271105 2003 QT_{101} 3 8.1 186°.95 2°.3/ 5.0 18

2 1	11 37.53	+10 8.0	2.787	3.597	10.1	21.7
2 11	11 32.94	+11 7.9	2.701	3.597	7.6	21.5
2 21	11 26.80	+12 13.8	2.642	3.596	4.8	21.3
3 2	11 19.58	+13 21.0	2.612	3.594	2.5	21.1
3 12	11 11.91	+14 23.9	2.613	3.591	3.3	21.2
3 22	11 4.46	+15 17.9	2.645	3.588	6.0	21.4
4 1	10 57.87	+15 59.4	2.705	3.585	8.7	21.5
4 11	10 52.69	+16 26.7	2.789	3.580	11.2	21.7

258713 2002 GT_{76} 3 8.1 293°.06 2°.0/ 6.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.32	+ 6 5.5	1.513	2.344	16.1	21.0
2 11	11 35.03	+ 6 53.0	1.414	2.320	12.4	20.7
2 21	11 28.96	+ 7 57.1	1.338	2.296	7.9	20.4
3 2	11 20.65	+ 9 11.5	1.286	2.272	3.2	20.0
3 12	11 11.16	+10 27.1	1.260	2.248	3.7	20.0
3 22	11 1.80	+11 34.0	1.262	2.224	8.8	20.2
4 1	10 53.92	+12 23.8	1.287	2.200	13.8	20.5
4 11	10 48.57	+12 51.9	1.332	2.176	18.3	20.7

489572 2007 TK_{61} 3 8.1 150°.88 0°.2/ 7.9 18

2 1	11 41.82	+ 2 34.9	2.025	2.822	13.9	22.6
2 11	11 36.64	+ 3 11.6	1.946	2.832	10.6	22.4
2 21	11 29.36	+ 4 1.3	1.892	2.842	6.8	22.2
3 2	11 20.61	+ 4 59.5	1.865	2.850	2.6	21.9
3 12	11 11.29	+ 6 0.1	1.867	2.858	1.8	21.9
3 22	11 2.37	+ 6 56.7	1.899	2.865	6.0	22.2
4 1	10 54.76	+ 7 43.8	1.959	2.872	9.9	22.4
4 11	10 49.11	+ 8 17.6	2.043	2.877	13.2	22.6

310976 2003 UB_{270} 3 8.1 119°.13 0°.5/ 7.7 18

2 1	11 42.25	+ 3 22.1	1.835	2.640	14.8	22.0
2 11	11 37.09	+ 3 56.9	1.766	2.656	11.3	21.8
2 21	11 29.68	+ 4 44.8	1.720	2.672	7.2	21.5
3 2	11 20.73	+ 5 40.8	1.701	2.687	2.7	21.3
3 12	11 11.23	+ 6 38.0	1.711	2.701	2.0	21.3
3 22	11 2.25	+ 7 29.8	1.749	2.715	6.4	21.6
4 1	10 54.74	+ 8 10.8	1.815	2.729	10.4	21.8
4 11	10 49.37	+ 8 37.6	1.904	2.741	13.8	22.1

427770 2004 TA_{334} 3 8.1 132°.44 1°.6/ 9.9 17

2 1	11 37.73	− 2 46.0	2.133	2.916	13.8	21.7
2 11	11 33.49	− 2 26.6	2.049	2.922	10.8	21.5
2 21	11 27.34	− 1 51.4	1.988	2.928	7.3	21.3
3 2	11 19.83	− 1 3.1	1.954	2.933	3.6	21.0
3 12	11 11.78	− 0 6.4	1.948	2.939	1.9	20.9
3 22	11 4.05	+ 0 52.7	1.972	2.944	5.2	21.1
4 1	10 57.46	+ 1 48.4	2.023	2.949	8.8	21.4
4 11	10 52.63	+ 2 35.6	2.100	2.954	12.1	21.6

506272 2016 RV_{7} 3 8.1 281°.94 1°.0/ 9.3 17

2 1	11 33.61	− 1 59.5	2.434	3.220	12.2	21.6
2 11	11 30.26	− 1 20.4	2.333	3.209	9.5	21.4
2 21	11 25.26	− 0 26.3	2.255	3.198	6.4	21.2
3 2	11 19.04	+ 0 40.1	2.204	3.186	2.9	20.9
3 12	11 12.27	+ 1 53.7	2.183	3.175	1.4	20.8
3 22	11 5.66	+ 3 8.9	2.192	3.164	4.8	21.0
4 1	10 59.95	+ 4 19.6	2.229	3.152	8.3	21.2
4 11	10 55.71	+ 5 20.7	2.292	3.141	11.4	21.4

22860 Francylemp 3 8.1 172°.51 0°.2/ 8.4 18

2 1	11 41.22	+ 1 19.3	2.066	2.859	13.8	19.6
2 11	11 36.21	+ 1 49.4	1.981	2.863	10.6	19.4
2 21	11 29.13	+ 2 33.2	1.919	2.866	6.9	19.2
3 2	11 20.54	+ 3 27.0	1.884	2.869	2.8	19.0
3 12	11 11.33	+ 4 25.1	1.879	2.870	1.6	18.9
3 22	11 2.46	+ 5 21.2	1.903	2.871	5.8	19.1
4 1	10 54.82	+ 6 9.8	1.955	2.871	9.7	19.4
4 11	10 49.10	+ 6 46.5	2.032	2.871	13.0	19.6

210172 2006 TD_{74} 3 8.1 174°.36 1°.8/ 5.7 18

2 1	11 35.38	+ 8 9.4	2.720	3.532	10.3	21.0
2 11	11 31.33	+ 9 4.1	2.637	3.533	7.8	20.8
2 21	11 25.79	+10 5.8	2.580	3.535	4.9	20.6
3 2	11 19.20	+11 10.2	2.551	3.536	2.2	20.4
3 12	11 12.19	+12 11.9	2.553	3.537	2.7	20.5
3 22	11 5.41	+13 6.2	2.586	3.537	5.6	20.7
4 1	10 59.49	+13 49.4	2.646	3.537	8.5	20.8
4 11	10 54.95	+14 19.3	2.730	3.537	11.0	21.0

95222 2002 CZ_{16} 3 8.1 129°.21 1°.5/ 6.9 18

2 1	11 42.95	+ 5 59.2	1.645	2.463	15.7	20.2
2 11	11 37.93	+ 6 34.7	1.574	2.472	11.9	20.0
2 21	11 30.39	+ 7 22.3	1.526	2.481	7.5	19.7
3 2	11 21.05	+ 8 16.1	1.503	2.490	2.9	19.5
3 12	11 11.04	+ 9 8.5	1.509	2.498	2.9	19.5
3 22	11 1.56	+ 9 52.3	1.543	2.505	7.5	19.8
4 1	10 53.72	+10 22.3	1.602	2.513	11.8	20.0
4 11	10 48.27	+10 35.8	1.683	2.520	15.4	20.3

415561 2014 QB_{226} 3 8.1 153°.86 1°.3/ 9.3 18

2 1	11 42.12	− 0 41.0	1.851	2.642	15.3	22.0
2 11	11 37.11	− 0 30.6	1.769	2.648	11.9	21.8
2 21	11 29.80	− 0 4.7	1.709	2.653	7.9	21.5
3 2	11 20.83	+ 0 34.1	1.676	2.658	3.6	21.3
3 12	11 11.17	+ 1 20.3	1.671	2.663	1.8	21.2
3 22	11 1.92	+ 2 8.0	1.695	2.667	6.0	21.4
4 1	10 54.06	+ 2 50.9	1.746	2.670	10.1	21.7
4 11	10 48.35	+ 3 24.1	1.821	2.673	13.7	21.9

100654 1997 WM_{12} 3 8.1 218°.47 1°.4/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 39.02	− 1 42.7	2.062	2.849	14.1	20.6
2 11	11 34.65	− 1 24.9	1.967	2.843	11.0	20.4
2 21	11 28.20	− 0 51.4	1.895	2.837	7.5	20.2
3 2	11 20.22	− 0 4.7	1.849	2.830	3.5	19.9
3 12	11 11.54	+ 0 50.4	1.832	2.823	1.8	19.8
3 22	11 3.09	+ 1 48.0	1.844	2.816	5.5	20.0
4 1	10 55.80	+ 2 41.7	1.884	2.808	9.5	20.2
4 11	10 50.38	+ 3 26.4	1.948	2.800	13.0	20.4

426719 2013 TC_{47} 3 8.1 269°.08 0°.7/ 7.5 17

2 1	11 39.36	+ 4 42.8	1.936	2.747	13.9	21.8
2 11	11 35.08	+ 5 6.2	1.841	2.735	10.7	21.6
2 21	11 28.57	+ 5 41.4	1.769	2.723	6.8	21.3
3 2	11 20.39	+ 6 24.1	1.724	2.711	2.6	21.0
3 12	11 11.43	+ 7 8.7	1.708	2.698	2.1	21.0
3 22	11 2.71	+ 7 49.0	1.720	2.686	6.5	21.2
4 1	10 55.22	+ 8 19.8	1.759	2.673	10.6	21.4
4 11	10 49.74	+ 8 37.5	1.820	2.661	14.2	21.6

386612 2009 HB_{100} 3 8.1 349°.98 0°.3/ 8.5 17

2 1	11 33.95	+ 0 55.7	2.113	2.918	13.2	20.7
2 11	11 30.70	+ 1 30.1	2.026	2.915	10.1	20.5
2 21	11 25.61	+ 2 18.5	1.962	2.912	6.6	20.3
3 2	11 19.19	+ 3 17.4	1.925	2.910	2.7	20.0
3 12	11 12.21	+ 4 21.0	1.916	2.908	1.5	19.9
3 22	11 5.50	+ 5 23.2	1.936	2.906	5.5	20.2
4 1	10 59.85	+ 6 18.0	1.983	2.905	9.2	20.4
4 11	10 55.89	+ 7 1.1	2.054	2.904	12.5	20.6

284191 2006 BQ_{3} 3 8.1 123°.00 1°.5/ 6.8 18

2 1	11 42.52	+ 5 0.0	1.666	2.481	15.6	21.6
2 11	11 37.53	+ 5 53.1	1.600	2.497	11.8	21.4
2 21	11 30.08	+ 6 59.8	1.556	2.511	7.4	21.2
3 2	11 20.92	+ 8 13.5	1.539	2.525	2.8	20.9
3 12	11 11.16	+ 9 25.5	1.550	2.538	2.9	21.0
3 22	11 1.96	+10 27.8	1.590	2.551	7.4	21.3
4 1	10 54.38	+11 14.7	1.655	2.563	11.6	21.5
4 11	10 49.13	+11 43.2	1.743	2.575	15.2	21.8

270530 2002 GT_{79} 3 8.1 317°.97 9°.2/27.5 17

2 1	11 39.77	+26 45.9	1.745	2.585	13.9	20.3
2 11	11 35.77	+28 22.1	1.682	2.577	11.5	20.1
2 21	11 29.15	+29 52.9	1.641	2.568	9.6	20.0
3 2	11 20.62	+31 7.1	1.626	2.560	9.4	19.9
3 12	11 11.32	+31 55.3	1.636	2.552	10.8	20.0
3 22	11 2.50	+32 12.4	1.670	2.544	13.3	20.1
4 1	10 55.32	+31 57.6	1.725	2.536	16.0	20.3
4 11	10 50.58	+31 14.2	1.797	2.529	18.5	20.4

194473 2001 WQ_{21} 3 8.1 128°.27 4°.5/ 4.2 18

2 1	11 42.60	+12 24.3	1.635	2.467	15.1	20.9
2 11	11 37.70	+13 40.9	1.573	2.479	11.4	20.7
2 21	11 30.24	+15 4.7	1.534	2.490	7.4	20.4
3 2	11 21.00	+16 26.6	1.522	2.501	4.6	20.3
3 12	11 11.12	+17 36.5	1.538	2.511	5.9	20.4
3 22	11 1.83	+18 27.2	1.580	2.520	9.5	20.6
4 1	10 54.22	+18 54.9	1.648	2.529	13.2	20.9
4 11	10 49.04	+18 59.3	1.736	2.538	16.5	21.1

347409 2012 SL_{31} 3 8.1 139°.92 0°.2/ 7.9 17

2 1	11 36.22	+ 2 38.3	2.656	3.450	11.1	21.8
2 11	11 31.96	+ 3 16.3	2.574	3.459	8.4	21.6
2 21	11 26.18	+ 4 4.4	2.518	3.467	5.4	21.4
3 2	11 19.36	+ 4 58.9	2.490	3.475	2.0	21.2
3 12	11 12.14	+ 5 55.3	2.492	3.483	1.4	21.2
3 22	11 5.18	+ 6 48.8	2.525	3.491	4.7	21.4
4 1	10 59.14	+ 7 35.2	2.586	3.498	7.8	21.6
4 11	10 54.50	+ 8 11.4	2.673	3.505	10.5	21.8

38949 2000 SJ_{295} 3 8.1 113°.47 4°.8/ 3.7 18

2 1	11 44.69	+18 10.4	2.149	2.969	12.4	19.4
2 11	11 38.62	+18 53.4	2.089	2.985	9.5	19.2
2 21	11 30.50	+19 35.7	2.054	3.001	6.6	19.0
3 2	11 21.02	+20 10.8	2.047	3.016	4.8	19.0
3 12	11 11.14	+20 33.0	2.069	3.031	5.7	19.0
3 22	11 1.82	+20 38.7	2.120	3.045	8.4	19.2
4 1	10 53.93	+20 26.8	2.197	3.059	11.2	19.4
4 11	10 48.05	+19 58.4	2.296	3.072	13.7	19.6

459655 2013 KM_{4} 3 8.1 344°.99 3°.5/10.8 18

2 1	11 34.51	− 5 9.9	1.262	2.076	19.7	20.8
2 11	11 32.37	− 5 10.3	1.181	2.068	15.9	20.5
2 21	11 27.32	− 4 43.8	1.118	2.061	11.3	20.2
3 2	11 20.03	− 3 51.7	1.078	2.055	6.3	19.9
3 12	11 11.68	− 2 39.9	1.061	2.050	3.6	19.7
3 22	11 3.69	− 1 18.5	1.069	2.046	7.5	19.9
4 1	10 57.45	+ 0 1.1	1.100	2.043	12.6	20.2
4 11	10 53.96	+ 1 8.8	1.151	2.041	17.3	20.5

504413 2007 YF_{5} 3 8.1 98°.15 6°.6/16.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.59	−19 32.4	2.584	3.255	14.3	21.6
2 11	11 33.89	−20 3.9	2.502	3.274	12.3	21.5
2 21	11 27.49	−20 15.1	2.441	3.293	10.2	21.4
3 2	11 19.89	−20 4.4	2.404	3.311	8.1	21.3
3 12	11 11.83	−19 33.2	2.393	3.329	6.8	21.2
3 22	11 4.06	−18 44.6	2.409	3.346	6.8	21.2
4 1	10 57.32	−17 44.0	2.453	3.363	8.2	21.4
4 11	10 52.17	−16 37.8	2.523	3.380	10.2	21.5

50514 2000 DL_{105} 3 8.1 176°.89 2°.3/ 5.8 18

2 1	11 40.75	+ 9 0.8	2.167	2.981	12.6	19.5
2 11	11 35.78	+ 9 50.7	2.086	2.983	9.5	19.3
2 21	11 28.82	+10 48.7	2.030	2.985	6.0	19.1
3 2	11 20.44	+11 48.9	2.002	2.986	2.8	18.9
3 12	11 11.48	+12 45.0	2.004	2.986	3.4	18.9
3 22	11 2.86	+13 31.3	2.035	2.986	6.9	19.1
4 1	10 55.43	+14 3.5	2.093	2.985	10.3	19.3
4 11	10 49.85	+14 19.9	2.175	2.984	13.3	19.5

373002 2011 CD_{97} 3 8.2 123°.23 2°.6/10.7 17

2 1	11 37.59	− 5 5.8	1.950	2.728	15.1	21.4
2 11	11 33.62	− 4 53.6	1.864	2.731	12.0	21.2
2 21	11 27.55	− 4 22.6	1.801	2.735	8.4	20.9
3 2	11 19.98	− 3 34.9	1.762	2.738	4.6	20.7
3 12	11 11.77	− 2 35.2	1.752	2.741	2.7	20.6
3 22	11 3.88	− 1 29.8	1.770	2.743	5.6	20.8
4 1	10 57.23	− 0 25.9	1.815	2.746	9.3	21.0
4 11	10 52.49	+ 0 30.5	1.885	2.749	12.8	21.2

336893 2011 GW_{62} 3 8.2 336°.32 4°.7/ 4.2 18

2 1	11 40.68	+15 34.3	1.755	2.591	14.1	19.9
2 11	11 36.23	+16 15.8	1.679	2.586	10.7	19.7
2 21	11 29.35	+17 0.2	1.627	2.581	7.2	19.4
3 2	11 20.69	+17 40.2	1.600	2.576	4.8	19.3
3 12	11 11.34	+18 8.3	1.601	2.572	5.9	19.3
3 22	11 2.42	+18 19.3	1.628	2.568	9.3	19.5
4 1	10 55.02	+18 10.5	1.680	2.565	12.9	19.7
4 11	10 49.89	+17 42.4	1.754	2.562	16.1	19.9

341325 2007 TN_{20} 3 8.2 185°.65 1°.3/ 9.7 17

2 1	11 37.10	− 1 58.2	2.573	3.349	11.9	21.7
2 11	11 32.75	− 1 39.9	2.480	3.349	9.3	21.5
2 21	11 26.77	− 1 8.8	2.410	3.348	6.3	21.3
3 2	11 19.63	− 0 27.3	2.368	3.348	3.0	21.1
3 12	11 12.00	+ 0 20.9	2.356	3.346	1.5	21.0
3 22	11 4.59	+ 1 11.1	2.374	3.345	4.5	21.2
4 1	10 58.10	+ 1 58.7	2.420	3.343	7.7	21.4
4 11	10 53.07	+ 2 39.5	2.493	3.341	10.6	21.6

272833 2006 BV_{1} 3 8.2 130°.81 2°.0/ 9.9 17 R

2 1	11 39.19	− 2 7.2	1.962	2.749	14.7	20.6
2 11	11 34.84	− 2 8.0	1.874	2.749	11.5	20.4
2 21	11 28.34	− 1 53.4	1.810	2.749	7.9	20.1
3 2	11 20.30	− 1 25.5	1.771	2.750	4.0	19.9
3 12	11 11.58	− 0 48.3	1.760	2.750	2.2	19.8
3 22	11 3.18	− 0 7.3	1.777	2.750	5.6	20.0
4 1	10 56.02	+ 0 32.0	1.822	2.750	9.5	20.2
4 11	10 50.81	+ 1 4.3	1.891	2.750	13.0	20.4

500329 2012 SN_{16} 3 8.2 137°.06 1°.0/ 9.4 17

2 1	11 37.96	− 0 36.4	2.725	3.502	11.3	22.9
2 11	11 33.22	− 0 23.3	2.641	3.512	8.7	22.7
2 21	11 26.97	+ 0 0.4	2.582	3.522	5.8	22.6
3 2	11 19.68	+ 0 32.6	2.551	3.532	2.7	22.4
3 12	11 11.99	+ 1 9.7	2.550	3.542	1.3	22.3
3 22	11 4.57	+ 1 47.8	2.580	3.550	4.3	22.5
4 1	10 58.06	+ 2 23.0	2.639	3.559	7.3	22.7
4 11	10 52.96	+ 2 52.0	2.724	3.567	10.0	22.9

90895 1997 CC_{2} 3 8.2 141°.52 1°.7/ 9.8 18

2 1	11 39.43	− 1 42.5	2.008	2.795	14.4	20.1
2 11	11 34.94	− 1 39.5	1.922	2.797	11.3	19.9
2 21	11 28.37	− 1 21.7	1.859	2.800	7.7	19.6
3 2	11 20.30	− 0 51.2	1.822	2.802	3.8	19.4
3 12	11 11.59	− 0 12.2	1.813	2.804	2.0	19.3
3 22	11 3.20	+ 0 29.8	1.833	2.806	5.5	19.5
4 1	10 56.05	+ 1 9.3	1.881	2.808	9.3	19.7
4 11	10 50.81	+ 1 41.5	1.952	2.809	12.7	19.9

357570 2004 TZ_{142} 3 8.2 47°.01 1°.3/ 7.2 18

2 1	11 41.02	+ 5 16.1	1.256	2.092	18.5	20.9
2 11	11 37.03	+ 5 45.2	1.198	2.105	14.0	20.7
2 21	11 30.06	+ 6 29.7	1.160	2.119	8.9	20.5
3 2	11 20.99	+ 7 22.5	1.146	2.133	3.3	20.2
3 12	11 11.20	+ 8 14.5	1.158	2.148	3.1	20.2
3 22	11 2.17	+ 8 57.0	1.194	2.163	8.4	20.5
4 1	10 55.17	+ 9 23.8	1.255	2.178	13.3	20.9
4 11	10 51.00	+ 9 32.1	1.336	2.194	17.4	21.1

372699 2009 WJ_{226} 3 8.2 17°.45 0°.4/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 37.01	+ 0 40.8	1.841	2.646	14.8	21.1
2 11	11 33.29	+ 1 11.7	1.758	2.647	11.4	20.8
2 21	11 27.40	+ 1 58.5	1.698	2.648	7.4	20.6
3 2	11 19.94	+ 2 57.3	1.664	2.648	3.0	20.3
3 12	11 11.82	+ 4 1.6	1.657	2.649	1.6	20.2
3 22	11 4.04	+ 5 4.4	1.679	2.650	6.1	20.5
4 1	10 57.55	+ 5 59.0	1.728	2.651	10.2	20.8
4 11	10 53.06	+ 6 40.5	1.799	2.652	13.8	21.0

8327 Weihenmayer 3 8.2 307°.04 0°.5/ 8.6 18

2 1	11 36.78	+ 0 57.8	1.718	2.530	15.4	18.0
2 11	11 33.42	+ 1 19.4	1.623	2.515	12.0	17.8
2 21	11 27.68	+ 1 57.6	1.550	2.501	7.9	17.5
3 2	11 20.12	+ 2 49.1	1.502	2.487	3.3	17.2
3 12	11 11.68	+ 3 47.7	1.481	2.473	1.8	17.0
3 22	11 3.47	+ 4 46.1	1.488	2.460	6.6	17.3
4 1	10 56.56	+ 5 37.0	1.520	2.447	11.1	17.5
4 11	10 51.82	+ 6 14.9	1.575	2.434	15.1	17.8

17164 1999 LP_{24} 3 8.2 128°.77 5°.1/14.7 18

2 1	11 36.19	−15 3.3	2.636	3.342	13.3	17.7
2 11	11 32.07	−15 14.7	2.544	3.349	11.2	17.5
2 21	11 26.34	−15 7.5	2.474	3.356	8.9	17.4
3 2	11 19.48	−14 41.5	2.428	3.363	6.6	17.3
3 12	11 12.13	−13 58.6	2.410	3.370	5.2	17.2
3 22	11 5.02	−13 2.4	2.420	3.376	5.7	17.2
4 1	10 58.83	−11 58.2	2.459	3.382	7.6	17.3
4 11	10 54.10	−10 52.1	2.524	3.388	9.9	17.5

274595 2008 TV_{29} 3 8.2 86°.59 0°.3/ 7.9 18

2 1	11 38.58	+ 3 29.4	2.005	2.812	13.7	21.0
2 11	11 34.24	+ 3 54.6	1.927	2.819	10.4	20.8
2 21	11 27.87	+ 4 31.5	1.874	2.826	6.7	20.6
3 2	11 20.09	+ 5 16.1	1.847	2.833	2.5	20.4
3 12	11 11.77	+ 6 2.6	1.849	2.840	1.8	20.3
3 22	11 3.82	+ 6 45.5	1.879	2.847	5.9	20.6
4 1	10 57.11	+ 7 19.7	1.937	2.854	9.7	20.8
4 11	10 52.30	+ 7 42.1	2.018	2.861	13.0	21.1

431567 2007 UC_{103} 3 8.2 64°.64 3°.3/ 4.9 18

2 1	11 39.63	+13 1.1	2.094	2.919	12.5	21.0
2 11	11 34.84	+13 41.9	2.034	2.936	9.4	20.8
2 21	11 28.14	+14 26.3	1.998	2.953	6.1	20.6
3 2	11 20.15	+15 8.4	1.990	2.970	3.5	20.5
3 12	11 11.76	+15 42.3	2.011	2.988	4.3	20.6
3 22	11 3.86	+16 3.8	2.060	3.005	7.3	20.8
4 1	10 57.26	+16 10.3	2.136	3.022	10.4	21.0
4 11	10 52.52	+16 1.5	2.234	3.039	13.1	21.2

393807 2005 QF_{100} 3 8.2 214°.80 1°.6/ 9.5 17

2 1	11 42.17	− 2 17.6	1.777	2.564	15.9	22.6
2 11	11 37.46	− 1 54.5	1.680	2.556	12.6	22.3
2 21	11 30.25	− 1 12.2	1.606	2.548	8.5	22.0
3 2	11 21.12	− 0 13.1	1.557	2.539	4.0	21.8
3 12	11 11.08	+ 0 56.7	1.537	2.528	2.0	21.6
3 22	11 1.26	+ 2 9.5	1.546	2.518	6.4	21.8
4 1	10 52.82	+ 3 17.3	1.581	2.506	10.9	22.1
4 11	10 46.65	+ 4 13.4	1.640	2.493	15.0	22.3

463333 2012 KM_{50} 3 8.2 271°.45 8°.0/28.5 17

2 1	11 40.37	+24 7.2	1.893	2.729	13.2	21.0
2 11	11 36.08	+25 39.9	1.819	2.716	10.6	20.8
2 21	11 29.32	+27 10.5	1.770	2.703	8.6	20.7
3 2	11 20.74	+28 28.8	1.747	2.690	8.0	20.6
3 12	11 11.36	+29 25.6	1.750	2.677	9.5	20.7
3 22	11 2.33	+29 55.1	1.779	2.664	12.1	20.8
4 1	10 54.76	+29 55.4	1.830	2.650	14.9	21.0
4 11	10 49.46	+29 28.6	1.900	2.637	17.5	21.1

166788 2002 VX_{41} 3 8.2 118°.63 1°.8/ 6.1 15

2 1	11 38.06	+ 8 35.9	2.415	3.227	11.5	20.8
2 11	11 33.49	+ 9 17.2	2.342	3.238	8.6	20.6
2 21	11 27.23	+10 5.3	2.294	3.249	5.4	20.4
3 2	11 19.81	+10 55.2	2.275	3.260	2.4	20.2
3 12	11 11.98	+11 41.8	2.286	3.270	2.8	20.3
3 22	11 4.50	+12 20.5	2.326	3.280	6.0	20.5
4 1	10 58.07	+12 47.8	2.394	3.290	9.0	20.7
4 11	10 53.23	+13 1.9	2.486	3.300	11.7	20.9

206865 2004 FD_{81} 3 8.2 268°.04 7°.1/28.8 17

2 1	11 40.29	+26 19.2	2.305	3.131	11.5	19.8
2 11	11 35.47	+27 27.4	2.240	3.128	9.3	19.6
2 21	11 28.63	+28 30.4	2.200	3.126	7.6	19.5
3 2	11 20.39	+29 20.6	2.187	3.123	7.2	19.5
3 12	11 11.62	+29 51.8	2.201	3.120	8.3	19.6
3 22	11 3.27	+30 0.4	2.242	3.118	10.3	19.7
4 1	10 56.19	+29 45.9	2.306	3.115	12.6	19.8
4 11	10 51.00	+29 10.2	2.390	3.112	14.6	20.0

302498 2002 GZ_{116} 3 8.2 25°.11 6°.3/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.20	+15 44.4	1.370	2.220	16.4	20.0
2 11	11 36.42	+17 2.8	1.309	2.223	12.5	19.8
2 21	11 29.72	+18 26.3	1.270	2.226	8.6	19.5
3 2	11 20.90	+19 43.5	1.256	2.230	6.3	19.4
3 12	11 11.30	+20 43.1	1.267	2.233	7.9	19.5
3 22	11 2.34	+21 17.5	1.303	2.238	11.6	19.7
4 1	10 55.29	+21 23.5	1.361	2.242	15.5	20.0
4 11	10 50.99	+21 2.5	1.438	2.247	18.9	20.2

503048 2015 FY_{158} 3 8.2 219°.34 0°.8/ 9.2 17

2 1	11 34.14	− 2 4.1	2.531	3.314	11.9	21.7
2 11	11 30.58	− 1 14.7	2.435	3.310	9.2	21.5
2 21	11 25.44	− 0 10.4	2.363	3.306	6.1	21.3
3 2	11 19.16	+ 1 5.5	2.319	3.302	2.7	21.1
3 12	11 12.38	+ 2 28.0	2.306	3.297	1.3	21.0
3 22	11 5.80	+ 3 50.8	2.322	3.293	4.7	21.2
4 1	11 0.10	+ 5 8.2	2.368	3.288	8.0	21.4
4 11	10 55.82	+ 6 15.3	2.439	3.283	10.9	21.6

334591 2002 TP_{207} 3 8.2 95°.33 3°.1/11.9 18

2 1	11 37.03	− 8 20.4	2.400	3.150	13.4	20.9
2 11	11 32.72	− 8 7.7	2.323	3.169	10.8	20.7
2 21	11 26.74	− 7 37.8	2.269	3.188	7.8	20.6
3 2	11 19.63	− 6 52.3	2.241	3.207	4.8	20.4
3 12	11 12.11	− 5 55.1	2.242	3.225	3.1	20.3
3 22	11 4.94	− 4 51.3	2.273	3.243	4.8	20.4
4 1	10 58.81	− 3 46.6	2.332	3.261	7.7	20.7
4 11	10 54.25	− 2 46.5	2.417	3.279	10.4	20.9

431992 2008 UX_{256} 3 8.2 154°.88 4°.8/14.2 17

2 1	11 36.66	−14 22.8	2.528	3.240	13.7	22.0
2 11	11 32.50	−14 18.3	2.434	3.246	11.5	21.8
2 21	11 26.66	−13 53.9	2.361	3.251	8.9	21.6
3 2	11 19.63	−13 9.6	2.314	3.257	6.4	21.5
3 12	11 12.10	−12 8.2	2.295	3.262	4.8	21.4
3 22	11 4.81	−10 54.3	2.305	3.266	5.5	21.4
4 1	10 58.48	− 9 34.0	2.344	3.270	7.8	21.6
4 11	10 53.69	− 8 14.0	2.409	3.274	10.3	21.7

401139 2011 UB_{376} 3 8.2 185°.84 1°.7/ 6.7 18

2 1	11 43.60	+ 7 8.3	1.887	2.698	14.2	22.1
2 11	11 38.28	+ 7 44.1	1.804	2.699	10.8	21.9
2 21	11 30.60	+ 8 30.1	1.744	2.698	6.8	21.7
3 2	11 21.22	+ 9 20.8	1.712	2.697	2.8	21.4
3 12	11 11.11	+10 9.4	1.708	2.696	3.0	21.4
3 22	11 1.37	+10 49.7	1.734	2.693	7.2	21.7
4 1	10 53.05	+11 16.8	1.786	2.690	11.2	21.9
4 11	10 46.90	+11 28.5	1.861	2.686	14.6	22.1

324575 2006 WO_{193} 3 8.2 48°.73 5°.0/ 4.4 18

2 1	11 43.00	+13 12.7	1.324	2.169	17.2	20.0
2 11	11 38.10	+14 22.4	1.291	2.203	12.8	19.8
2 21	11 30.44	+15 36.5	1.280	2.237	8.3	19.7
3 2	11 21.05	+16 44.3	1.293	2.272	5.1	19.6
3 12	11 11.33	+17 36.1	1.333	2.307	6.4	19.7
3 22	11 2.64	+18 6.0	1.398	2.343	10.1	20.0
4 1	10 56.03	+18 12.0	1.487	2.378	13.8	20.3
4 11	10 52.09	+17 55.9	1.595	2.413	17.0	20.6

284343 2006 RN_{58} 3 8.2 184°.57 0°.0/ 7.9 17

2 1	11 36.22	+ 2 29.0	2.931	3.720	10.3	22.1
2 11	11 31.89	+ 3 0.4	2.838	3.720	7.8	22.0
2 21	11 26.14	+ 3 41.1	2.771	3.719	5.0	21.8
3 2	11 19.41	+ 4 28.1	2.733	3.718	1.9	21.6
3 12	11 12.25	+ 5 17.3	2.726	3.717	1.2	21.5
3 22	11 5.30	+ 6 4.8	2.749	3.715	4.4	21.7
4 1	10 59.14	+ 6 46.6	2.801	3.713	7.3	21.9
4 11	10 54.25	+ 7 19.9	2.880	3.710	9.8	22.1

131842 2002 AY_{117} 3 8.2 333°.69 0°.9/ 8.7 18

2 1	11 37.97	+ 1 57.8	1.215	2.050	19.1	19.1
2 11	11 35.23	+ 1 51.8	1.132	2.037	14.9	18.7
2 21	11 29.32	+ 2 4.0	1.069	2.024	9.9	18.4
3 2	11 20.90	+ 2 31.4	1.027	2.013	4.2	18.1
3 12	11 11.26	+ 3 7.4	1.010	2.002	2.2	17.9
3 22	11 1.96	+ 3 43.8	1.017	1.993	8.2	18.2
4 1	10 54.54	+ 4 12.4	1.047	1.984	13.8	18.5
4 11	10 50.10	+ 4 27.1	1.096	1.977	18.7	18.7

144823 2004 JU_{13} 3 8.2 283°.66 0°.8/ 7.3 17

2 1	11 36.52	+ 5 16.6	2.303	3.112	12.1	20.5
2 11	11 32.56	+ 5 46.1	2.210	3.104	9.2	20.3
2 21	11 26.79	+ 6 25.3	2.141	3.095	5.8	20.1
3 2	11 19.71	+ 7 10.4	2.100	3.086	2.2	19.8
3 12	11 12.06	+ 7 56.2	2.088	3.078	2.0	19.8
3 22	11 4.62	+ 8 37.6	2.105	3.069	5.7	20.0
4 1	10 58.19	+ 9 10.2	2.150	3.061	9.2	20.2
4 11	10 53.39	+ 9 31.1	2.218	3.052	12.3	20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
398453 2011 UL_{72}			3 8.2 205°.93	4°.2/ 4.3 18		
	h m	° ′			°	m
2 1	11 44.05	+13 39.7	1.892	2.715	13.7	21.4
2 11	11 38.71	+14 38.7	1.809	2.710	10.4	21.2
2 21	11 30.94	+15 43.3	1.751	2.704	6.9	21.0
3 2	11 21.37	+16 46.0	1.720	2.698	4.4	20.8
3 12	11 11.04	+17 38.8	1.718	2.690	5.5	20.9
3 22	11 1.06	+18 15.1	1.744	2.682	8.9	21.1
4 1	10 52.52	+18 31.4	1.796	2.674	12.5	21.3
4 11	10 46.22	+18 27.2	1.870	2.664	15.7	21.4
66316 1999 JR_{49}			3 8.2 248°.68	3°.4/12.3 18		
2 1	11 35.02	− 9 11.4	2.458	3.205	13.1	19.5
2 11	11 31.35	− 9 1.7	2.356	3.199	10.7	19.4
2 21	11 26.00	− 8 34.2	2.277	3.193	7.9	19.2
3 2	11 19.41	− 7 49.8	2.224	3.187	5.1	19.0
3 12	11 12.27	− 6 51.8	2.199	3.180	3.4	18.9
3 22	11 5.30	− 5 44.8	2.204	3.174	4.9	18.9
4 1	10 59.25	− 4 34.8	2.237	3.167	7.8	19.1
4 11	10 54.71	− 3 27.8	2.295	3.161	10.8	19.3
345596 2006 SP_{95}			3 8.2 122°.64	0°.3/ 7.8 17		
2 1	11 36.48	+ 3 24.5	2.764	3.558	10.7	22.2
2 11	11 32.10	+ 3 57.6	2.687	3.572	8.1	22.1
2 21	11 26.26	+ 4 39.6	2.635	3.585	5.1	21.9
3 2	11 19.45	+ 5 26.9	2.611	3.597	1.9	21.7
3 12	11 12.28	+ 6 15.4	2.619	3.609	1.4	21.7
3 22	11 5.39	+ 7 0.9	2.656	3.621	4.6	21.9
4 1	10 59.39	+ 7 39.6	2.722	3.633	7.5	22.1
4 11	10 54.74	+ 8 8.8	2.814	3.644	10.1	22.3
406014 2006 TX_{26}			3 8.2 64°.84	2°.4/ 6.3 18		
2 1	11 43.53	+ 8 21.6	1.537	2.363	16.2	21.4
2 11	11 38.28	+ 9 0.9	1.488	2.391	12.1	21.2
2 21	11 30.52	+ 9 49.4	1.462	2.419	7.6	21.0
3 2	11 21.12	+10 39.8	1.461	2.447	3.2	20.8
3 12	11 11.30	+11 24.4	1.489	2.475	3.7	20.9
3 22	11 2.28	+11 56.9	1.543	2.502	7.9	21.2
4 1	10 55.08	+12 13.6	1.623	2.529	11.9	21.5
4 11	10 50.33	+12 13.2	1.724	2.557	15.3	21.8
486689 2013 UQ_{3}			3 8.2 322°.35	21°.8/19.8 18		
2 1	11 45.21	−29 29.9	1.129	1.811	28.8	20.4
2 11	11 42.15	−32 54.1	1.057	1.804	27.0	20.2
2 21	11 34.76	−35 47.3	0.997	1.797	25.1	20.0
3 2	11 23.42	−37 53.5	0.951	1.790	23.3	19.9
3 12	11 9.54	−38 59.4	0.921	1.784	22.1	19.7
3 22	10 55.41	−38 59.5	0.906	1.779	21.8	19.7
4 1	10 43.63	−37 58.7	0.907	1.774	22.6	19.7
4 11	10 36.18	−36 13.6	0.922	1.769	24.2	19.8
330766 2008 SL_{272}			3 8.2 245°.45	1°.7/ 9.9 17		
2 1	11 37.25	− 2 39.2	2.156	2.939	13.6	21.7
2 11	11 33.26	− 2 23.7	2.060	2.933	10.8	21.5
2 21	11 27.32	− 1 52.5	1.987	2.926	7.3	21.3
3 2	11 19.96	− 1 7.9	1.940	2.919	3.7	21.0
3 12	11 11.95	− 0 14.4	1.921	2.912	1.9	20.9
3 22	11 4.15	+ 0 42.7	1.932	2.905	5.2	21.1
4 1	10 57.43	+ 1 37.1	1.971	2.897	9.0	21.3
4 11	10 52.45	+ 2 23.8	2.034	2.890	12.3	21.5
15505 1999 RF_{56}			3 8.2 319°.03	0°.8/ 7.2 18		
2 1	11 35.17	+ 6 29.4	2.848	3.653	10.1	17.2
2 11	11 31.18	+ 6 45.7	2.753	3.645	7.7	17.1
2 21	11 25.75	+ 7 8.5	2.683	3.636	4.8	16.9
3 2	11 19.29	+ 7 34.6	2.642	3.628	1.8	16.6
3 12	11 12.39	+ 8 0.7	2.631	3.620	1.7	16.6
3 22	11 5.68	+ 8 23.2	2.650	3.613	4.7	16.8
4 1	10 59.76	+ 8 39.2	2.697	3.605	7.7	17.0
4 11	10 55.15	+ 8 46.6	2.769	3.598	10.2	17.1
232089 2001 WP_{98}			3 8.2 161°.73	2°.7/11.8 18		
2 1	11 35.01	− 8 11.1	2.740	3.487	11.9	20.7
2 11	11 31.10	− 7 48.6	2.646	3.491	9.6	20.6
2 21	11 25.71	− 7 10.2	2.575	3.494	7.0	20.4
3 2	11 19.28	− 6 17.5	2.531	3.497	4.2	20.2
3 12	11 12.41	− 5 14.0	2.516	3.500	2.7	20.1
3 22	11 5.75	− 4 4.3	2.532	3.503	4.3	20.2
4 1	10 59.94	− 2 53.8	2.577	3.505	7.1	20.4
4 11	10 55.48	− 1 47.7	2.649	3.507	9.7	20.6
340368 2006 DC_{135}			3 8.2 292°.01	0°.5/ 8.6 17		
2 1	11 39.91	+ 2 12.6	1.965	2.766	14.1	21.7
2 11	11 35.67	+ 2 17.4	1.853	2.740	11.0	21.4
2 21	11 29.12	+ 2 34.7	1.765	2.714	7.3	21.1
3 2	11 20.75	+ 3 1.9	1.703	2.687	3.0	20.8
3 12	11 11.43	+ 3 34.7	1.669	2.661	1.7	20.6
3 22	11 2.16	+ 4 7.7	1.663	2.634	6.2	20.9
4 1	10 54.01	+ 4 35.4	1.685	2.607	10.5	21.1
4 11	10 47.87	+ 4 53.5	1.730	2.580	14.4	21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
193663 2001 DG_{62}			3 8.2 350°.98	1°.2/ 7.0 18		
	h m	° ′			°	m
2 1	11 33.06	+ 3 10.8	1.581	2.411	15.6	19.6
2 11	11 30.67	+ 4 12.3	1.501	2.406	11.9	19.3
2 21	11 25.94	+ 5 32.1	1.443	2.401	7.5	19.0
3 2	11 19.48	+ 7 3.6	1.411	2.398	2.8	18.7
3 12	11 12.27	+ 8 37.3	1.405	2.395	2.8	18.7
3 22	11 5.40	+10 3.5	1.426	2.393	7.6	19.0
4 1	10 59.93	+11 13.7	1.472	2.391	12.0	19.3
4 11	10 56.63	+12 3.0	1.540	2.390	15.9	19.5
421721 2014 PD_{32}			3 8.2 149°.55	0°.7/ 7.5 18		
2 1	11 43.28	+ 4 47.3	1.968	2.771	14.0	22.7
2 11	11 37.86	+ 5 14.4	1.890	2.780	10.7	22.5
2 21	11 30.23	+ 5 52.4	1.836	2.788	6.8	22.3
3 2	11 21.07	+ 6 36.9	1.810	2.796	2.6	22.0
3 12	11 11.31	+ 7 21.7	1.813	2.803	2.1	22.0
3 22	11 1.98	+ 8 1.3	1.846	2.810	6.3	22.3
4 1	10 54.03	+ 8 30.9	1.905	2.816	10.2	22.5
4 11	10 48.13	+ 8 47.7	1.989	2.821	13.5	22.7
503633 2016 GL_{169}			3 8.2 165°.92	3°.6/ 4.4 18		
2 1	11 38.97	+12 33.0	2.099	2.924	12.5	21.4
2 11	11 34.54	+13 33.8	2.024	2.926	9.4	21.2
2 21	11 28.10	+14 40.3	1.974	2.928	6.1	21.0
3 2	11 20.24	+15 45.7	1.951	2.930	3.7	20.8
3 12	11 11.82	+16 43.1	1.958	2.932	4.7	20.9
3 22	11 3.76	+17 26.6	1.993	2.933	7.8	21.1
4 1	10 56.92	+17 52.8	2.054	2.934	11.1	21.3
4 11	10 51.94	+18 0.6	2.137	2.935	13.9	21.5
489651 2007 UB_{23}			3 8.2 186°.77	1°.6/ 6.6 17		
2 1	11 41.91	+ 6 29.7	2.025	2.834	13.5	22.5
2 11	11 36.87	+ 7 15.7	1.940	2.834	10.2	22.3
2 21	11 29.65	+ 8 12.4	1.879	2.833	6.5	22.0
3 2	11 20.87	+ 9 14.4	1.846	2.832	2.6	21.8
3 12	11 11.42	+10 14.8	1.842	2.829	2.9	21.8
3 22	11 2.30	+11 7.3	1.868	2.827	6.8	22.0
4 1	10 54.45	+11 46.8	1.921	2.823	10.6	22.2
4 11	10 48.58	+12 10.6	1.998	2.818	13.9	22.4
89514 2001 XA_{59}			3 8.2 154°.79	0°.8/ 8.9 18		
2 1	11 42.04	− 0 35.1	1.857	2.648	15.2	19.9
2 11	11 37.08	− 0 5.3	1.776	2.656	11.8	19.7
2 21	11 29.83	+ 0 41.3	1.718	2.663	7.8	19.5
3 2	11 20.95	+ 1 40.8	1.687	2.670	3.4	19.2
3 12	11 11.40	+ 2 46.9	1.685	2.676	1.7	19.1
3 22	11 2.26	+ 3 52.4	1.711	2.682	6.0	19.4
4 1	10 54.52	+ 4 50.4	1.765	2.686	10.2	19.6
4 11	10 48.91	+ 5 36.0	1.843	2.690	13.8	19.9
418268 2008 EO_{44}			3 8.2 183°.15	2°.9/ 5.8 18		
2 1	11 43.73	+11 21.6	1.895	2.715	13.8	20.9
2 11	11 38.36	+11 49.4	1.816	2.715	10.5	20.7
2 21	11 30.65	+12 22.8	1.760	2.715	6.7	20.5
3 2	11 21.26	+12 56.1	1.732	2.715	3.3	20.3
3 12	11 11.21	+13 22.9	1.733	2.715	4.0	20.3
3 22	11 1.59	+13 38.3	1.761	2.714	7.7	20.5
4 1	10 53.41	+13 39.1	1.817	2.713	11.4	20.8
4 11	10 47.42	+13 24.5	1.895	2.712	14.7	21.0
387294 2012 UL_{175}			3 8.2 169°.90	6°.3/15.7 17		
2 1	11 37.50	−17 44.8	2.541	3.229	14.1	21.3
2 11	11 33.24	−18 12.5	2.444	3.231	12.2	21.1
2 21	11 27.23	−18 20.5	2.367	3.232	9.9	21.0
3 2	11 19.92	−18 7.3	2.315	3.233	7.8	20.8
3 12	11 12.04	−17 33.8	2.288	3.234	6.4	20.7
3 22	11 4.36	−16 43.4	2.290	3.235	6.6	20.8
4 1	10 57.63	−15 41.2	2.319	3.236	8.3	20.9
4 11	10 52.48	−14 33.8	2.374	3.236	10.6	21.0
204722 2006 HK_{2}			3 8.2 336°.47	5°.7/ 3.9 18		
2 1	11 41.17	+14 46.5	1.353	2.202	16.7	20.1
2 11	11 37.32	+15 48.2	1.284	2.197	12.8	19.8
2 21	11 30.43	+16 56.1	1.236	2.193	8.6	19.6
3 2	11 21.29	+17 59.9	1.212	2.190	5.8	19.4
3 12	11 11.21	+18 48.7	1.214	2.186	7.2	19.4
3 22	11 1.70	+19 14.6	1.241	2.184	11.3	19.7
4 1	10 54.11	+19 14.1	1.290	2.181	15.5	19.9
4 11	10 49.36	+18 48.0	1.358	2.179	19.2	20.1
109536 2001 QT_{250}			3 8.2 194°.71	5°.0/ 3.8 18		
2 1	11 45.63	+18 7.7	2.040	2.861	12.9	20.3
2 11	11 39.69	+18 49.6	1.963	2.860	10.0	20.1
2 21	11 31.45	+19 31.4	1.911	2.858	7.0	19.9
3 2	11 21.57	+20 6.4	1.886	2.855	5.1	19.8
3 12	11 11.06	+20 28.0	1.890	2.853	6.1	19.8
3 22	11 1.01	+20 32.0	1.922	2.849	9.0	20.0
4 1	10 52.40	+20 16.7	1.981	2.846	12.1	20.2
4 11	10 45.95	+19 43.4	2.061	2.842	14.9	20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
407882 2012 BG_{104}			3 8.2 43°.92	2°.1/ 6.7 18		
	h m	° ′			°	m
2 1	11 40.76	+ 7 10.4	1.339	2.176	17.5	21.1
2 11	11 36.70	+ 7 44.2	1.281	2.190	13.2	20.9
2 21	11 29.82	+ 8 30.3	1.245	2.204	8.3	20.7
3 2	11 20.97	+ 9 21.6	1.232	2.219	3.3	20.4
3 12	11 11.46	+10 9.1	1.246	2.234	3.6	20.5
3 22	11 2.68	+10 45.2	1.285	2.250	8.4	20.8
4 1	10 55.81	+11 4.7	1.349	2.266	13.0	21.1
4 11	10 51.62	+11 5.6	1.432	2.282	16.9	21.4
66860 1999 VZ_{30}			3 8.2 170°.75	3°.2/11.9 17		
2 1	11 37.76	− 8 24.7	2.522	3.267	12.9	20.3
2 11	11 33.33	− 8 16.6	2.428	3.270	10.5	20.2
2 21	11 27.22	− 7 51.9	2.356	3.273	7.6	20.0
3 2	11 19.91	− 7 11.7	2.311	3.275	4.8	19.8
3 12	11 12.08	− 6 19.2	2.295	3.277	3.2	19.7
3 22	11 4.48	− 5 19.0	2.309	3.279	4.8	19.8
4 1	10 57.84	− 4 16.6	2.352	3.279	7.7	20.0
4 11	10 52.71	− 3 17.4	2.421	3.280	10.5	20.2
409726 2006 BV_{280}			3 8.2 309°.16	2°.9/ 5.9 16		
2 1	11 37.33	+ 7 20.5	1.319	2.163	17.3	21.4
2 11	11 34.59	+ 8 16.6	1.234	2.147	13.2	21.1
2 21	11 28.85	+ 9 29.6	1.169	2.131	8.4	20.8
3 2	11 20.76	+10 51.7	1.129	2.115	3.7	20.4
3 12	11 11.50	+12 11.7	1.114	2.100	4.7	20.4
3 22	11 2.52	+13 18.5	1.123	2.085	9.8	20.7
4 1	10 55.27	+14 3.7	1.156	2.070	15.0	20.9
4 11	10 50.82	+14 23.2	1.208	2.057	19.5	21.2
499722 2011 BE_{7}			3 8.2 14°.74	6°.5/12.8 18		
2 1	11 40.72	− 9 43.9	1.549	2.317	18.8	20.9
2 11	11 36.65	−10 44.6	1.469	2.319	15.6	20.7
2 21	11 29.87	−11 23.7	1.409	2.323	12.0	20.5
3 2	11 21.06	−11 38.9	1.372	2.327	8.5	20.3
3 12	11 11.35	−11 31.1	1.359	2.332	6.5	20.2
3 22	11 2.01	−11 4.4	1.372	2.337	8.0	20.3
4 1	10 54.28	−10 26.1	1.410	2.343	11.3	20.5
4 11	10 49.07	− 9 44.7	1.471	2.350	14.9	20.7
504387 2007 VS_{193}			3 8.2 140°.03	5°.5/14.8 17		
2 1	11 37.71	−15 33.1	2.671	3.369	13.3	21.4
2 11	11 33.26	−15 59.3	2.577	3.375	11.3	21.3
2 21	11 27.17	−16 7.7	2.505	3.381	9.0	21.1
3 2	11 19.89	−15 57.5	2.457	3.386	6.9	21.0
3 12	11 12.10	−15 29.9	2.437	3.391	5.6	20.9
3 22	11 4.52	−14 47.9	2.445	3.396	6.0	21.0
4 1	10 57.85	−13 56.3	2.482	3.400	7.8	21.1
4 11	10 52.66	−13 0.9	2.544	3.405	10.0	21.2
144914 2005 AK_{40}			3 8.2 252°.26	1°.2/ 7.0 18		
2 1	11 38.16	+ 6 0.8	2.075	2.888	13.0	20.5
2 11	11 33.98	+ 6 33.5	1.990	2.886	9.9	20.2
2 21	11 27.79	+ 7 16.3	1.929	2.883	6.3	20.0
3 2	11 20.17	+ 8 4.5	1.895	2.881	2.4	19.8
3 12	11 11.93	+ 8 52.4	1.890	2.878	2.4	19.7
3 22	11 4.00	+ 9 34.3	1.913	2.876	6.3	20.0
4 1	10 57.24	+10 5.5	1.964	2.873	10.0	20.2
4 11	10 52.31	+10 23.1	2.038	2.871	13.2	20.4
194365 2001 UG_{178}			3 8.2 115°.88	4°.3/ 4.5 18		
2 1	11 43.54	+11 58.2	1.606	2.436	15.4	20.5
2 11	11 38.44	+13 10.9	1.547	2.452	11.6	20.3
2 21	11 30.77	+14 30.9	1.511	2.467	7.5	20.1
3 2	11 21.32	+15 49.0	1.502	2.481	4.4	19.9
3 12	11 11.27	+16 55.5	1.521	2.496	5.6	20.0
3 22	11 1.86	+17 43.3	1.566	2.509	9.3	20.3
4 1	10 54.19	+18 8.5	1.637	2.522	13.1	20.5
4 11	10 48.99	+18 11.2	1.729	2.534	16.4	20.8
261386 2005 UE_{388}			3 8.2 302°.59	0°.5/ 7.7 18		
2 1	11 37.93	+ 3 17.0	1.796	2.610	14.7	20.9
2 11	11 34.10	+ 3 53.9	1.713	2.608	11.3	20.6
2 21	11 28.01	+ 4 45.3	1.653	2.607	7.2	20.4
3 2	11 20.29	+ 5 46.2	1.619	2.605	2.7	20.1
3 12	11 11.86	+ 6 49.7	1.613	2.604	2.1	20.1
3 22	11 3.77	+ 7 48.5	1.635	2.602	6.6	20.3
4 1	10 57.01	+ 8 36.3	1.683	2.601	10.8	20.6
4 11	10 52.33	+ 9 8.8	1.754	2.599	14.5	20.8
4857 Altgamia			3 8.2 349°.48	21°.4/25.3 18		
2 1	12 3.31	+48 3.1	1.065	1.866	23.5	15.7
2 11	11 56.25	+49 13.4	1.021	1.854	22.2	15.6
2 21	11 43.27	+49 46.6	0.992	1.843	21.5	15.5
3 2	11 26.24	+49 22.4	0.979	1.835	21.5	15.4
3 12	11 8.44	+47 49.1	0.983	1.828	22.5	15.4
3 22	10 53.10	+45 9.4	1.003	1.823	24.2	15.5
4 1	10 42.37	+41 36.8	1.040	1.820	26.2	15.7
4 11	10 36.88	+37 30.1	1.092	1.820	28.3	15.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
501480 2014 BD_{62}			3 8.2 85°.47	2°.6/11.4 17		
	h m	° ′			°	m
2 1	11 34.27	− 7 18.9	2.361	3.123	13.2	20.8
2 11	11 30.78	− 6 48.6	2.272	3.128	10.6	20.6
2 21	11 25.63	− 6 0.3	2.206	3.133	7.5	20.4
3 2	11 19.30	− 4 56.0	2.167	3.138	4.4	20.2
3 12	11 12.49	− 3 40.3	2.156	3.143	2.6	20.1
3 22	11 5.94	− 2 19.1	2.175	3.148	4.7	20.3
4 1	11 0.36	− 0 58.9	2.222	3.153	7.9	20.5
4 11	10 56.30	+ 0 14.3	2.295	3.158	10.9	20.7
173353 1999 XQ_{251}			3 8.2 193°.25	0°.5/ 8.7 18		
2 1	11 40.42	+ 0 30.1	2.059	2.851	13.9	21.4
2 11	11 35.74	+ 1 1.1	1.968	2.849	10.8	21.2
2 21	11 28.96	+ 1 46.9	1.900	2.847	7.0	21.0
3 2	11 20.64	+ 2 43.9	1.860	2.844	2.9	20.7
3 12	11 11.65	+ 3 46.4	1.849	2.840	1.5	20.6
3 22	11 2.93	+ 4 48.0	1.867	2.836	5.8	20.9
4 1	10 55.41	+ 5 42.5	1.913	2.831	9.7	21.1
4 11	10 49.78	+ 6 25.3	1.983	2.826	13.2	21.3
240630 2004 YU_{21}			3 8.2 259°.40	2°.8/ 4.9 18		
2 1	11 37.20	+10 9.1	2.269	3.089	11.8	20.6
2 11	11 33.21	+11 9.7	2.173	3.073	8.9	20.4
2 21	11 27.32	+12 18.7	2.101	3.057	5.7	20.2
3 2	11 20.01	+13 30.2	2.059	3.041	3.0	20.0
3 12	11 12.03	+14 37.5	2.045	3.024	3.9	20.0
3 22	11 4.22	+15 34.4	2.061	3.007	7.2	20.2
4 1	10 57.43	+16 16.3	2.103	2.990	10.5	20.4
4 11	10 52.33	+16 40.7	2.168	2.972	13.5	20.5
464875 2005 JD_{89}			3 8.2 186°.11	5°.5/28.5 18		
2 1	11 40.45	+27 35.5	3.351	4.160	8.6	22.5
2 11	11 35.01	+28 34.6	3.284	4.160	7.0	22.4
2 21	11 28.11	+29 28.8	3.243	4.159	5.8	22.3
3 2	11 20.21	+30 13.0	3.231	4.157	5.5	22.3
3 12	11 11.95	+30 43.1	3.249	4.155	6.4	22.3
3 22	11 3.95	+30 56.7	3.294	4.152	7.9	22.4
4 1	10 56.83	+30 53.1	3.365	4.148	9.5	22.6
4 11	10 51.08	+30 33.2	3.458	4.144	11.1	22.7
297068 2010 JR_{39}			3 8.2 228°.95	6°.9/16.1 17		
2 1	11 37.27	−18 44.1	2.431	3.116	14.8	20.4
2 11	11 33.20	−19 19.1	2.332	3.114	12.8	20.3
2 21	11 27.28	−19 33.4	2.252	3.111	10.6	20.1
3 2	11 19.99	−19 25.1	2.196	3.109	8.5	20.0
3 12	11 12.05	−18 54.7	2.166	3.107	7.1	19.9
3 22	11 4.28	−18 5.3	2.163	3.104	7.2	19.9
4 1	10 57.50	−17 2.2	2.186	3.101	8.8	20.0
4 11	10 52.37	−15 52.3	2.235	3.099	11.1	20.1
21490 1998 JW			3 8.2 249°.73	4°.7/13.2 18		
2 1	11 36.34	−11 48.4	2.097	2.838	15.3	18.9
2 11	11 32.72	−11 44.6	1.996	2.831	12.7	18.7
2 21	11 27.08	−11 18.6	1.916	2.823	9.7	18.5
3 2	11 19.93	−10 30.4	1.860	2.816	6.6	18.3
3 12	11 12.08	− 9 23.1	1.832	2.808	4.7	18.2
3 22	11 4.42	− 8 2.2	1.832	2.800	6.0	18.2
4 1	10 57.86	− 6 35.5	1.859	2.792	9.0	18.4
4 11	10 53.10	− 5 11.0	1.912	2.784	12.3	18.6
167657 2004 EY_{12}			3 8.2 92°.89	0°.8/ 7.4 17		
2 1	11 40.97	+ 6 22.0	2.305	3.109	12.2	19.7
2 11	11 35.74	+ 6 35.0	2.233	3.123	9.3	19.5
2 21	11 28.71	+ 6 55.4	2.185	3.138	5.8	19.3
3 2	11 20.47	+ 7 19.5	2.166	3.152	2.2	19.1
3 12	11 11.81	+ 7 43.1	2.176	3.166	1.9	19.1
3 22	11 3.55	+ 8 2.1	2.216	3.180	5.5	19.4
4 1	10 56.46	+ 8 13.4	2.285	3.194	8.8	19.6
4 11	10 51.09	+ 8 15.0	2.377	3.207	11.7	19.8
411251 2010 RO_{90}			3 8.2 134°.41	0°.8/ 8.9 18		
2 1	11 38.87	− 1 13.9	1.788	2.585	15.5	21.5
2 11	11 34.76	− 0 32.5	1.709	2.592	12.0	21.3
2 21	11 28.41	+ 0 27.5	1.653	2.599	7.9	21.0
3 2	11 20.44	+ 1 41.8	1.622	2.606	3.4	20.8
3 12	11 11.81	+ 3 3.2	1.620	2.612	1.6	20.6
3 22	11 3.59	+ 4 23.4	1.646	2.618	6.1	20.9
4 1	10 56.74	+ 5 34.9	1.700	2.623	10.4	21.2
4 11	10 51.98	+ 6 31.9	1.777	2.629	14.0	21.4
62396 2000 SE_{170}			3 8.2 264°.87	4°.8/13.2 18		
2 1	11 36.57	−11 53.6	2.067	2.808	15.5	18.4
2 11	11 33.00	−11 49.9	1.958	2.793	12.9	18.1
2 21	11 27.34	−11 23.4	1.870	2.777	9.9	17.9
3 2	11 20.07	−10 33.7	1.806	2.761	6.7	17.7
3 12	11 12.00	− 9 23.6	1.769	2.745	4.8	17.5
3 22	11 4.05	− 7 58.9	1.760	2.729	6.1	17.6
4 1	10 57.17	− 6 27.2	1.779	2.712	9.4	17.7
4 11	10 52.14	− 4 57.4	1.823	2.695	12.8	17.9

463915 2014 UR_{136} 3 8.2 87°.97 1°.3/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.60	+ 5 49.8	1.778	2.595	14.7	21.7
2 11	11 36.01	+ 6 23.7	1.709	2.606	11.1	21.5
2 21	11 29.15	+ 7 8.8	1.663	2.618	7.0	21.3
3 2	11 20.71	+ 7 59.6	1.643	2.629	2.7	21.1
3 12	11 11.69	+ 8 49.3	1.652	2.641	2.6	21.1
3 22	11 3.17	+ 9 31.4	1.689	2.652	6.9	21.4
4 1	10 56.11	+10 1.2	1.751	2.663	10.9	21.6
4 11	10 51.20	+10 15.9	1.837	2.674	14.3	21.9

144721 2004 GD_{34} 3 8.2 344°.49 4°.4/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 33.96	−12 38.9	2.321	3.055	14.2	19.9
2 11	11 30.67	−12 26.3	2.224	3.053	11.8	19.7
2 21	11 25.63	−11 52.6	2.149	3.052	9.0	19.5
3 2	11 19.34	−10 58.3	2.099	3.052	6.2	19.3
3 12	11 12.50	− 9 46.7	2.076	3.051	4.4	19.2
3 22	11 5.89	− 8 23.2	2.082	3.050	5.4	19.3
4 1	11 0.25	− 6 54.8	2.117	3.049	8.1	19.4
4 11	10 56.19	− 5 28.8	2.177	3.049	11.0	19.6

431502 2007 TE_{126} 3 8.2 236°.35 2°.1/ 5.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.95	+ 9 48.7	2.571	3.382	10.9	21.9
2 11	11 34.28	+10 26.2	2.474	3.369	8.2	21.7
2 21	11 27.88	+11 9.8	2.402	3.356	5.2	21.5
3 2	11 20.21	+11 55.2	2.359	3.342	2.5	21.3
3 12	11 11.97	+12 37.3	2.346	3.328	3.0	21.3
3 22	11 3.91	+13 11.7	2.363	3.314	6.1	21.4
4 1	10 56.78	+13 34.8	2.407	3.299	9.2	21.6
4 11	10 51.19	+13 44.8	2.476	3.284	12.0	21.8

406327 2007 QH_{10} 3 8.2 241°.37 1°.4/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.31	− 0 4.7	1.734	2.529	16.0	22.2
2 11	11 38.47	− 0 5.1	1.636	2.517	12.6	21.9
2 21	11 31.03	+ 0 10.1	1.561	2.506	8.5	21.6
3 2	11 21.56	+ 0 38.6	1.511	2.493	3.9	21.3
3 12	11 11.10	+ 1 15.8	1.489	2.480	2.0	21.2
3 22	11 0.85	+ 1 55.5	1.495	2.467	6.6	21.4
4 1	10 52.02	+ 2 31.5	1.528	2.454	11.2	21.7
4 11	10 45.52	+ 2 58.1	1.584	2.440	15.3	21.9

348785 2006 OD_{12} 3 8.2 184°.75 1°.4/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.98	+ 7 34.5	3.144	3.946	9.3	21.8
2 11	11 31.66	+ 8 25.9	3.055	3.946	7.0	21.6
2 21	11 26.02	+ 9 23.9	2.992	3.945	4.4	21.4
3 2	11 19.44	+10 24.5	2.959	3.944	1.9	21.3
3 12	11 12.48	+11 23.4	2.958	3.943	2.3	21.3
3 22	11 5.70	+12 16.5	2.988	3.940	4.9	21.5
4 1	10 59.66	+13 0.3	3.046	3.937	7.5	21.6
4 11	10 54.81	+13 32.8	3.131	3.934	9.8	21.8

74878 1999 TK_{104} 3 8.2 179°.65 0°.5/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.91	+ 4 13.2	2.113	2.911	13.4	20.3
2 11	11 37.54	+ 4 38.3	2.027	2.913	10.2	20.1
2 21	11 30.07	+ 5 14.2	1.964	2.914	6.5	19.9
3 2	11 21.09	+ 5 57.0	1.929	2.915	2.5	19.6
3 12	11 11.48	+ 6 41.2	1.924	2.914	1.9	19.6
3 22	11 2.18	+ 7 21.3	1.949	2.913	6.0	19.8
4 1	10 54.13	+ 7 52.8	2.001	2.912	9.8	20.1
4 11	10 48.00	+ 8 12.5	2.078	2.909	13.1	20.3

281050 2006 HG_{124} 3 8.2 173°.23 1°.3/ 6.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.42	+ 6 34.6	2.284	3.094	12.1	21.6
2 11	11 33.98	+ 7 11.2	2.201	3.095	9.2	21.4
2 21	11 27.71	+ 7 56.6	2.142	3.096	5.8	21.2
3 2	11 20.15	+ 8 46.3	2.111	3.097	2.3	20.9
3 12	11 12.06	+ 9 34.8	2.110	3.098	2.4	20.9
3 22	11 4.27	+10 17.1	2.138	3.098	5.9	21.2
4 1	10 57.55	+10 49.0	2.194	3.098	9.3	21.4
4 11	10 52.51	+11 7.9	2.274	3.098	12.3	21.6

24242 1999 XY_{100} 3 8.2 227°.87 2°.1/ 9.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.06	− 2 46.7	1.885	2.663	15.5	18.9
2 11	11 38.91	− 2 40.1	1.780	2.650	12.3	18.6
2 21	11 31.27	− 2 16.1	1.698	2.635	8.5	18.3
3 2	11 21.67	− 1 36.2	1.641	2.620	4.3	18.1
3 12	11 11.08	− 0 44.8	1.613	2.603	2.3	17.9
3 22	11 0.62	+ 0 11.8	1.614	2.586	6.2	18.1
4 1	10 51.44	+ 1 6.6	1.643	2.568	10.6	18.3
4 11	10 44.46	+ 1 53.2	1.696	2.548	14.6	18.5

368817 2006 AP_{104} 3 8.2 72°.61 1°.6/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.91	− 1 20.0	1.853	2.646	15.2	21.1
2 11	11 35.40	− 1 13.3	1.781	2.660	11.8	20.9
2 21	11 28.74	− 0 51.0	1.732	2.674	7.9	20.7
3 2	11 20.56	− 0 15.8	1.708	2.689	3.8	20.5
3 12	11 11.84	+ 0 27.2	1.712	2.703	1.9	20.4
3 22	11 3.58	+ 1 12.1	1.745	2.718	5.7	20.6
4 1	10 56.69	+ 1 53.0	1.804	2.732	9.6	20.9
4 11	10 51.84	+ 2 25.1	1.887	2.746	13.0	21.1

117969 9583 $P–L$ 3 8.2 169°.62 0°.1/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.03	+ 0 53.8	2.120	2.912	13.5	20.3
2 11	11 35.34	+ 1 34.5	2.034	2.916	10.4	20.1
2 21	11 28.66	+ 2 29.7	1.973	2.920	6.7	19.9
3 2	11 20.55	+ 3 35.1	1.938	2.923	2.7	19.7
3 12	11 11.84	+ 4 44.7	1.934	2.926	1.5	19.6
3 22	11 3.44	+ 5 52.1	1.959	2.927	5.7	19.8
4 1	10 56.22	+ 6 51.0	2.013	2.928	9.5	20.1
4 11	10 50.83	+ 7 37.3	2.090	2.929	12.7	20.3

248689 2006 KM_{71} 3 8.2 216°.80 3°.1/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.17	+ 9 11.1	1.810	2.635	14.2	21.2
2 11	11 35.89	+10 19.0	1.726	2.629	10.7	21.0
2 21	11 29.24	+11 38.0	1.666	2.623	6.8	20.7
3 2	11 20.83	+13 0.7	1.633	2.617	3.5	20.5
3 12	11 11.64	+14 18.1	1.629	2.610	4.5	20.5
3 22	11 2.76	+15 22.3	1.653	2.602	8.4	20.7
4 1	10 55.26	+16 7.6	1.702	2.594	12.3	21.0
4 11	10 49.91	+16 31.6	1.773	2.586	15.7	21.2

502181 2015 BG_{64} 3 8.2 105°.93 2°.0/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.37	+ 8 52.0	2.018	2.835	13.2	21.5
2 11	11 35.65	+ 9 23.0	1.942	2.841	10.0	21.3
2 21	11 28.86	+10 1.4	1.890	2.846	6.3	21.0
3 2	11 20.61	+10 42.2	1.866	2.851	2.7	20.8
3 12	11 11.81	+11 19.3	1.870	2.856	3.1	20.9
3 22	11 3.41	+11 47.6	1.903	2.861	6.8	21.1
4 1	10 56.30	+12 3.5	1.963	2.866	10.4	21.3
4 11	10 51.12	+12 5.2	2.046	2.870	13.5	21.5

320761 2008 EB_{76} 3 8.2 249°.58 1°.3/ 6.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.27	+ 5 24.2	2.095	2.904	13.1	21.7
2 11	11 34.99	+ 6 11.3	1.993	2.887	10.0	21.4
2 21	11 28.59	+ 7 10.8	1.915	2.869	6.4	21.2
3 2	11 20.58	+ 8 17.7	1.865	2.851	2.5	20.9
3 12	11 11.79	+ 9 25.6	1.844	2.832	2.6	20.9
3 22	11 3.14	+10 27.5	1.852	2.813	6.7	21.1
4 1	10 55.58	+11 17.7	1.888	2.793	10.6	21.3
4 11	10 49.88	+11 52.3	1.947	2.773	14.0	21.5

522136 2016 AA_{247} 3 8.2 316°.04 1°.9/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.63	+ 1 24.4	1.582	2.386	16.9	21.1
2 11	11 39.69	+ 0 48.9	1.490	2.376	13.3	20.8
2 21	11 31.92	+ 0 25.4	1.420	2.366	9.0	20.5
3 2	11 21.96	+ 0 12.7	1.374	2.356	4.3	20.2
3 12	11 10.94	+ 0 8.0	1.356	2.347	2.4	20.1
3 22	11 0.20	+ 0 7.1	1.365	2.338	6.9	20.3
4 1	10 51.07	+ 0 5.4	1.400	2.330	11.7	20.6
4 11	10 44.52	− 0 1.4	1.458	2.322	15.9	20.8

433262 2012 XQ_{78} 3 8.2 174°.83 4°.5/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.70	+18 9.0	2.558	3.384	10.5	21.0
2 11	11 33.30	+19 11.4	2.486	3.385	8.0	20.8
2 21	11 27.21	+20 14.5	2.439	3.386	5.7	20.6
3 2	11 19.95	+21 12.3	2.421	3.386	4.5	20.6
3 12	11 12.23	+21 59.0	2.432	3.387	5.5	20.6
3 22	11 4.81	+22 30.7	2.472	3.387	7.8	20.8
4 1	10 58.41	+22 45.0	2.537	3.387	10.3	20.9
4 11	10 53.56	+22 41.9	2.625	3.387	12.5	21.1

183439 2003 AC_{72} 3 8.2 40°.06 5°.8/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.35	+18 12.2	1.565	2.401	15.4	19.4
2 11	11 39.99	+18 49.9	1.502	2.407	11.9	19.2
2 21	11 31.86	+19 27.2	1.463	2.414	8.3	19.0
3 2	11 21.81	+19 55.5	1.449	2.420	5.9	18.9
3 12	11 11.12	+20 7.1	1.461	2.428	7.0	19.0
3 22	11 1.14	+19 57.9	1.500	2.435	10.3	19.2
4 1	10 53.05	+19 27.0	1.563	2.443	13.9	19.4
4 11	10 47.59	+18 36.6	1.646	2.451	17.1	19.6

128720 2004 RY_{124} 3 8.2 6°.34 1°.2/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.24	− 1 25.1	1.169	2.001	19.9	20.0
2 11	11 33.08	− 0 57.8	1.099	2.001	15.6	19.8
2 21	11 27.88	− 0 4.4	1.048	2.001	10.4	19.5
3 2	11 20.39	+ 1 10.5	1.018	2.003	4.6	19.1
3 12	11 11.94	+ 2 37.2	1.013	2.005	2.2	19.0
3 22	11 4.00	+ 4 3.7	1.032	2.009	7.9	19.3
4 1	10 57.97	+ 5 18.4	1.074	2.013	13.4	19.7
4 11	10 54.79	+ 6 13.5	1.136	2.018	18.1	19.9

333652 2008 SP_{12} 3 8.2 263°.16 0°.1/ 8.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.43	− 0 47.5	2.038	2.835	13.8	21.0
2 11	11 32.09	+ 0 16.5	1.937	2.822	10.7	20.8
2 21	11 26.73	+ 1 39.8	1.860	2.808	7.0	20.5
3 2	11 19.86	+ 3 17.8	1.810	2.794	2.8	20.2
3 12	11 12.26	+ 5 3.2	1.789	2.781	1.6	20.1
3 22	11 4.83	+ 6 47.3	1.798	2.766	6.0	20.4
4 1	10 58.47	+ 8 21.9	1.835	2.752	10.1	20.6
4 11	10 53.91	+ 9 40.7	1.896	2.738	13.7	20.8

288114 2003 WP_{62} 3 8.2 195°.76 0°.3/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.77	+ 0 52.5	2.077	2.869	13.8	22.2
2 11	11 36.02	+ 1 25.3	1.984	2.866	10.7	21.9
2 21	11 29.17	+ 2 12.7	1.916	2.863	7.0	21.7
3 2	11 20.79	+ 3 10.9	1.875	2.859	2.8	21.4
3 12	11 11.71	+ 4 14.1	1.863	2.855	1.5	21.3
3 22	11 2.91	+ 5 16.0	1.881	2.849	5.8	21.6
4 1	10 55.28	+ 6 10.5	1.926	2.844	9.7	21.8
4 11	10 49.55	+ 6 52.9	1.996	2.837	13.2	22.0

316795 1999 TK_{243} 3 8.2 171°.18 1°.2/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.31	− 2 30.7	2.408	3.184	12.6	21.6
2 11	11 33.08	− 1 56.3	2.317	3.187	9.8	21.4
2 21	11 27.12	− 1 7.1	2.251	3.190	6.6	21.2
3 2	11 19.94	− 0 6.0	2.212	3.192	3.1	21.0
3 12	11 12.25	+ 1 2.2	2.203	3.194	1.5	20.8
3 22	11 4.81	+ 2 11.8	2.224	3.195	4.8	21.1
4 1	10 58.35	+ 3 17.0	2.274	3.196	8.2	21.3
4 11	10 53.46	+ 4 13.2	2.349	3.196	11.2	21.5

194338 2001 UZ_{145} 3 8.2 94°.99 3°.3/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.28	− 6 35.4	1.501	2.288	18.4	20.5
2 11	11 35.51	− 6 17.1	1.426	2.297	14.7	20.3
2 21	11 29.11	− 5 33.3	1.371	2.306	10.4	20.1
3 2	11 20.80	− 4 26.4	1.340	2.315	5.8	19.8
3 12	11 11.73	− 3 3.0	1.335	2.324	3.3	19.7
3 22	11 3.13	− 1 32.6	1.357	2.332	6.6	19.9
4 1	10 56.18	− 0 5.5	1.405	2.341	11.1	20.2
4 11	10 51.68	+ 1 9.5	1.476	2.349	15.2	20.4

333448 2003 UD_{288} 3 8.2 128°.50 0°.0/ 8.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.55	+ 2 47.8	2.219	3.018	12.8	21.2
2 11	11 34.10	+ 3 13.3	2.138	3.024	9.8	21.0
2 21	11 27.81	+ 3 50.1	2.081	3.031	6.3	20.8
3 2	11 20.21	+ 4 34.4	2.051	3.037	2.4	20.5
3 12	11 12.10	+ 5 21.3	2.051	3.043	1.5	20.5
3 22	11 4.32	+ 6 5.4	2.081	3.048	5.4	20.8
4 1	10 57.65	+ 6 42.3	2.138	3.054	8.9	21.0
4 11	10 52.70	+ 7 8.4	2.219	3.059	12.0	21.2

292789 2006 UJ_{223} 3 8.2 121°.49 3°.2/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.21	− 8 32.1	2.587	3.333	12.6	20.6
2 11	11 32.12	− 8 28.4	2.498	3.340	10.2	20.5
2 21	11 26.45	− 8 8.8	2.432	3.348	7.5	20.3
3 2	11 19.67	− 7 34.4	2.392	3.355	4.8	20.1
3 12	11 12.43	− 6 48.1	2.382	3.362	3.2	20.0
3 22	11 5.44	− 5 54.3	2.400	3.369	4.7	20.1
4 1	10 59.37	− 4 57.9	2.447	3.376	7.3	20.3
4 11	10 54.75	− 4 4.2	2.521	3.383	10.0	20.5

54765 2001 LB_{5} 3 8.2 116°.09 3°.6/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.84	−10 4.8	2.113	2.859	15.1	19.8
2 11	11 34.38	− 9 39.8	2.035	2.877	12.2	19.7
2 21	11 28.00	− 8 53.2	1.979	2.895	8.9	19.5
3 2	11 20.28	− 7 47.1	1.948	2.911	5.6	19.3
3 12	11 12.08	− 6 26.2	1.946	2.928	3.6	19.2
3 22	11 4.26	− 4 57.3	1.973	2.944	5.3	19.4
4 1	10 57.65	− 3 28.3	2.029	2.959	8.5	19.6
4 11	10 52.85	− 2 6.1	2.110	2.974	11.7	19.8

495355 2014 OB_{72} 3 8.2 232°.79 2°.3/ 6.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.63	+ 7 15.5	1.833	2.650	14.4	23.0
2 11	11 37.07	+ 8 11.7	1.739	2.638	10.9	22.8
2 21	11 30.08	+ 9 20.5	1.669	2.624	7.0	22.5
3 2	11 21.22	+10 35.7	1.625	2.610	3.0	22.2
3 12	11 11.47	+11 49.0	1.611	2.596	3.6	22.3
3 22	11 1.93	+12 52.4	1.625	2.580	7.9	22.5
4 1	10 53.73	+13 39.7	1.665	2.564	12.1	22.7
4 11	10 47.70	+14 7.5	1.727	2.548	15.8	22.9

260710 2005 JB_{145} 3 8.2 228°.71 1°.5/ 9.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.60	− 2 29.8	2.125	2.905	13.9	21.7
2 11	11 35.19	− 2 7.0	2.022	2.894	11.0	21.5
2 21	11 28.70	− 1 27.7	1.942	2.882	7.5	21.3
3 2	11 20.64	− 0 34.2	1.889	2.869	3.6	21.0
3 12	11 11.83	+ 0 28.7	1.865	2.856	1.8	20.9
3 22	11 3.19	+ 1 34.8	1.871	2.843	5.5	21.1
4 1	10 55.63	+ 2 37.6	1.904	2.828	9.4	21.3
4 11	10 49.90	+ 3 31.3	1.963	2.813	12.9	21.5

20877 2000 VD_{50} 3 8.2 118°.16 0°.6/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.99	+ 0 25.1	1.831	2.625	15.3	19.6
2 11	11 37.75	+ 0 50.8	1.761	2.643	11.8	19.4
2 21	11 30.25	+ 1 31.7	1.713	2.660	7.7	19.1
3 2	11 21.19	+ 2 23.8	1.693	2.676	3.2	18.9
3 12	11 11.57	+ 3 20.9	1.701	2.692	1.6	18.8
3 22	11 2.47	+ 4 16.2	1.738	2.708	6.0	19.1
4 1	10 54.83	+ 5 3.6	1.802	2.722	10.1	19.4
4 11	10 49.35	+ 5 38.9	1.890	2.736	13.5	19.6

221180 2005 UR_{20} 3 8.2 47°.52 7°.4/15.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 36.68	−16 58.1	1.679	2.408	19.0	19.5
2 11	11 33.36	−17 19.5	1.604	2.421	16.1	19.3
2 21	11 27.65	−17 11.7	1.548	2.434	12.9	19.1
3 2	11 20.23	−16 33.4	1.513	2.448	9.8	19.0
3 12	11 12.13	−15 27.1	1.502	2.462	7.6	18.9
3 22	11 4.47	−13 59.6	1.517	2.476	8.0	18.9
4 1	10 58.28	−12 20.8	1.558	2.491	10.4	19.1
4 11	10 54.31	−10 41.5	1.623	2.506	13.5	19.3

426691 2013 TU_{26} 3 8.2 184°.42 1°.1/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.81	− 1 44.9	1.964	2.757	14.4	21.7
2 11	11 33.11	− 1 13.3	1.877	2.757	11.3	21.5
2 21	11 27.35	− 0 24.4	1.813	2.757	7.5	21.2
3 2	11 20.11	+ 0 38.3	1.775	2.757	3.4	21.0
3 12	11 12.23	+ 1 49.0	1.765	2.757	1.6	20.8
3 22	11 4.65	+ 3 0.7	1.784	2.757	5.6	21.1
4 1	10 58.25	+ 4 6.5	1.830	2.756	9.6	21.3
4 11	10 53.72	+ 5 0.7	1.901	2.756	13.1	21.6

461574 2004 PD 3 8.2 264°.03 7°.4/14.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.98	−16 39.8	2.172	2.873	15.9	21.4
2 11	11 36.49	−17 27.0	2.055	2.852	13.8	21.2
2 21	11 29.73	−17 53.9	1.958	2.830	11.4	21.0
3 2	11 21.15	−17 57.5	1.885	2.808	9.0	20.8
3 12	11 11.55	−17 36.9	1.837	2.786	7.5	20.7
3 22	11 1.93	−16 54.6	1.817	2.763	8.0	20.7
4 1	10 53.34	−15 56.0	1.823	2.740	10.2	20.7
4 11	10 46.66	−14 48.8	1.854	2.716	13.1	20.9

170819 2004 EU_{10} 3 8.2 303°.56 1°.1/ 7.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.30	+ 5 38.2	2.145	2.959	12.6	19.9
2 11	11 32.60	+ 6 14.5	2.054	2.951	9.6	19.6
2 21	11 26.98	+ 7 1.2	1.987	2.942	6.1	19.4
3 2	11 19.97	+ 7 54.1	1.948	2.934	2.3	19.1
3 12	11 12.33	+ 8 47.2	1.937	2.926	2.3	19.1
3 22	11 4.93	+ 9 34.8	1.955	2.918	6.1	19.4
4 1	10 58.61	+10 12.1	1.999	2.910	9.8	19.6
4 11	10 54.01	+10 35.7	2.068	2.902	13.0	19.8

224406 2005 UM_{314} 3 8.2 74°.70 2°.2/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.87	− 5 41.6	1.790	2.573	16.0	20.5
2 11	11 33.21	− 5 1.0	1.718	2.589	12.7	20.3
2 21	11 27.41	− 3 58.4	1.668	2.605	8.7	20.1
3 2	11 20.12	− 2 37.5	1.643	2.620	4.5	19.9
3 12	11 12.28	− 1 5.3	1.646	2.636	2.3	19.7
3 22	11 4.89	+ 0 29.5	1.678	2.652	5.7	20.0
4 1	10 58.85	+ 1 58.4	1.737	2.668	9.7	20.3
4 11	10 54.82	+ 3 14.3	1.820	2.684	13.2	20.5

69582 1998 DM_{10} 3 8.2 76°.96 1°.9/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.70	− 3 43.1	1.501	2.301	17.8	18.9
2 11	11 35.02	− 3 10.6	1.431	2.313	14.0	18.7
2 21	11 28.78	− 2 14.9	1.381	2.324	9.5	18.5
3 2	11 20.70	− 0 59.8	1.355	2.336	4.6	18.2
3 12	11 11.92	+ 0 26.8	1.356	2.347	2.2	18.1
3 22	11 3.66	+ 1 54.9	1.384	2.359	6.6	18.4
4 1	10 57.03	+ 3 15.1	1.438	2.371	11.2	18.7
4 11	10 52.79	+ 4 20.1	1.515	2.382	15.2	18.9

56362 2000 CG_{56} 3 8.2 287°.94 2°.9/ 6.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.87	+ 8 16.6	1.375	2.213	17.1	18.9
2 11	11 37.18	+ 9 3.4	1.294	2.203	13.1	18.6
2 21	11 30.49	+10 3.9	1.234	2.193	8.3	18.3
3 2	11 21.49	+11 10.5	1.198	2.183	3.7	18.0
3 12	11 11.40	+12 13.1	1.188	2.174	4.5	18.1
3 22	11 1.70	+13 2.2	1.204	2.164	9.5	18.3
4 1	10 53.78	+13 31.2	1.244	2.155	14.4	18.6
4 11	10 48.64	+13 37.4	1.303	2.146	18.6	18.8

210417 2007 XW_{10} 3 8.2 80°.85 0°.0/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.72	+ 2 37.5	2.279	3.078	12.5	21.5
2 11	11 33.36	+ 3 6.2	2.209	3.095	9.5	21.3
2 21	11 27.27	+ 3 45.8	2.163	3.112	6.1	21.1
3 2	11 20.02	+ 4 32.5	2.144	3.129	2.4	20.9
3 12	11 12.36	+ 5 21.1	2.155	3.147	1.5	20.9
3 22	11 5.08	+ 6 6.7	2.196	3.164	5.1	21.1
4 1	10 58.89	+ 6 44.9	2.264	3.180	8.5	21.4
4 11	10 54.34	+ 7 12.5	2.357	3.197	11.4	21.6

492833 2014 QZ_{306} 3 8.2 165°.42 0°.8/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.13	+ 3 53.2	2.080	2.882	13.4	22.5
2 11	11 36.23	+ 4 38.8	1.998	2.887	10.2	22.3
2 21	11 29.27	+ 5 36.8	1.941	2.892	6.5	22.0
3 2	11 20.86	+ 6 42.2	1.911	2.897	2.4	21.8
3 12	11 11.84	+ 7 48.5	1.911	2.900	2.1	21.8
3 22	11 3.17	+ 8 49.2	1.940	2.903	6.2	22.0
4 1	10 55.73	+ 9 38.9	1.997	2.905	9.9	22.3
4 11	10 50.18	+10 14.1	2.078	2.907	13.2	22.5

160012 1110 T-2 3 8.2 161°.07 0°.5/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 42.09	− 0 7.8	1.964	2.753	14.6	22.0
2 11	11 37.07	+ 0 29.2	1.881	2.761	11.3	21.8
2 21	11 29.87	+ 1 22.0	1.822	2.768	7.4	21.5
3 2	11 21.10	+ 2 26.9	1.790	2.774	3.1	21.3
3 12	11 11.70	+ 3 37.3	1.787	2.779	1.6	21.2
3 22	11 2.66	+ 4 46.2	1.814	2.783	5.9	21.5
4 1	10 54.94	+ 5 47.0	1.868	2.787	9.9	21.7
4 11	10 49.23	+ 6 34.9	1.947	2.789	13.4	22.0

129690 1998 SF_{16} 3 8.2 80°.46 0°.1/ 8.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.52	+ 1 32.8	2.018	2.821	13.8	20.0
2 11	11 33.53	+ 2 2.9	1.939	2.827	10.6	19.8
2 21	11 27.55	+ 2 46.7	1.884	2.833	6.8	19.5
3 2	11 20.18	+ 3 40.0	1.855	2.840	2.7	19.3
3 12	11 12.26	+ 4 37.3	1.854	2.846	1.5	19.2
3 22	11 4.68	+ 5 32.2	1.883	2.853	5.7	19.5
4 1	10 58.30	+ 6 19.3	1.938	2.859	9.5	19.7
4 11	10 53.75	+ 6 54.4	2.018	2.865	12.8	20.0

498347 2007 VF_{279} 3 8.2 152°.14 3°.6/12.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.57	− 9 32.1	2.487	3.229	13.1	22.0
2 11	11 32.52	− 9 30.6	2.394	3.232	10.7	21.8
2 21	11 26.80	− 9 12.0	2.323	3.235	8.0	21.6
3 2	11 19.88	− 8 37.1	2.279	3.238	5.2	21.5
3 12	11 12.44	− 7 48.8	2.263	3.241	3.6	21.4
3 22	11 5.24	− 6 51.5	2.276	3.244	5.0	21.5
4 1	10 58.98	− 5 50.6	2.317	3.246	7.7	21.6
4 11	10 54.24	− 4 51.9	2.384	3.249	10.5	21.8

320782 2008 EX_{130} 3 8.2 326°.64 2°.9/ 6.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.09	+ 8 49.3	1.431	2.272	16.4	20.8
2 11	11 34.94	+ 9 28.2	1.348	2.259	12.5	20.6
2 21	11 28.99	+10 19.2	1.287	2.247	8.0	20.3
3 2	11 20.89	+11 15.1	1.250	2.235	3.6	20.0
3 12	11 11.80	+12 7.0	1.238	2.224	4.4	20.0
3 22	11 3.04	+12 46.4	1.252	2.213	9.1	20.2
4 1	10 55.93	+13 7.3	1.290	2.203	13.8	20.5
4 11	10 51.41	+13 7.0	1.348	2.194	17.9	20.7

381319 2007 VM_{223} 3 8.2 20°.35 9°.4/25.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.20	+31 46.9	2.077	2.902	12.6	20.1
2 11	11 35.78	+33 21.6	2.028	2.904	10.7	20.0
2 21	11 29.08	+34 46.3	2.004	2.907	9.6	20.0
3 2	11 20.78	+35 51.5	2.004	2.909	9.6	20.0
3 12	11 11.92	+36 30.4	2.030	2.911	10.8	20.0
3 22	11 3.59	+36 39.8	2.079	2.914	12.7	20.2
4 1	10 56.74	+36 20.1	2.150	2.917	14.7	20.3
4 11	10 52.05	+35 35.0	2.237	2.920	16.5	20.5

100078 1992 RZ_{2} 3 8.2 131°.37 1°.2/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.50	+ 0 34.1	2.239	3.016	13.4	19.9
2 11	11 39.31	+ 0 24.9	2.159	3.030	10.4	19.7
2 21	11 31.12	+ 0 26.5	2.103	3.044	6.9	19.5
3 2	11 21.55	+ 0 37.1	2.076	3.057	3.2	19.3
3 12	11 11.46	+ 0 53.1	2.078	3.069	1.6	19.2
3 22	11 1.78	+ 1 10.9	2.111	3.081	5.1	19.5
4 1	10 53.35	+ 1 26.4	2.173	3.092	8.7	19.7
4 11	10 46.81	+ 1 36.3	2.260	3.103	11.8	19.9

263763 2008 KV_{11} 3 8.2 331°.36 2°.6/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 34.38	− 3 43.3	1.424	2.235	18.0	19.6
2 11	11 32.14	− 3 36.5	1.333	2.220	14.4	19.3
2 21	11 27.23	− 3 6.2	1.262	2.206	10.1	19.0
3 2	11 20.23	− 2 14.0	1.213	2.193	5.3	18.7
3 12	11 12.19	− 1 5.7	1.190	2.180	2.8	18.5
3 22	11 4.38	+ 0 10.1	1.192	2.169	7.0	18.7
4 1	10 58.09	+ 1 23.1	1.218	2.158	12.0	18.9
4 11	10 54.28	+ 2 24.4	1.265	2.148	16.5	19.2

282832 2006 TN_{77} 3 8.2 229°.80 3°.8/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.69	− 9 34.0	2.663	3.398	12.5	21.0
2 11	11 33.35	− 9 45.4	2.557	3.390	10.3	20.8
2 21	11 27.34	− 9 41.6	2.474	3.382	7.8	20.7
3 2	11 20.11	− 9 22.5	2.417	3.373	5.2	20.5
3 12	11 12.30	− 8 50.3	2.388	3.364	3.8	20.4
3 22	11 4.63	− 8 8.2	2.389	3.355	5.0	20.4
4 1	10 57.81	− 7 20.9	2.418	3.345	7.5	20.6
4 11	10 52.44	− 6 33.6	2.474	3.335	10.2	20.7

302171 2001 TJ_{51} 3 8.2 91°.22 0°.4/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.53	+ 0 8.1	1.480	2.290	17.5	21.2
2 11	11 37.13	+ 0 47.8	1.417	2.308	13.5	21.0
2 21	11 30.09	+ 1 47.0	1.374	2.325	8.7	20.7
3 2	11 21.21	+ 3 0.2	1.357	2.342	3.5	20.4
3 12	11 11.69	+ 4 18.5	1.366	2.358	1.9	20.4
3 22	11 2.79	+ 5 32.8	1.404	2.375	7.0	20.7
4 1	10 55.63	+ 6 34.9	1.466	2.391	11.6	21.0
4 11	10 50.97	+ 7 19.8	1.551	2.406	15.5	21.3

264613 2001 UL_{196} 3 8.2 98°.25 3°.2/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.14	+11 1.7	1.842	2.668	13.9	21.3
2 11	11 36.41	+11 51.7	1.776	2.679	10.5	21.1
2 21	11 29.44	+12 48.4	1.734	2.690	6.7	20.8
3 2	11 20.92	+13 44.9	1.719	2.701	3.5	20.7
3 12	11 11.86	+14 33.8	1.732	2.712	4.4	20.7
3 22	11 3.30	+15 9.5	1.773	2.723	7.9	21.0
4 1	10 56.19	+15 28.2	1.840	2.733	11.5	21.2
4 11	10 51.19	+15 29.0	1.929	2.744	14.6	21.4

500615 2012 UZ_{145} 3 8.2 54°.33 5°.1/13.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.52	−11 57.0	2.218	2.953	14.7	20.7
2 11	11 33.44	−12 20.6	2.133	2.961	12.3	20.5
2 21	11 27.48	−12 25.0	2.069	2.969	9.5	20.4
3 2	11 20.17	−12 10.0	2.029	2.977	6.7	20.2
3 12	11 12.30	−11 37.5	2.017	2.986	5.1	20.1
3 22	11 4.71	−10 51.8	2.032	2.995	6.0	20.2
4 1	10 58.21	− 9 58.5	2.075	3.003	8.5	20.4
4 11	10 53.44	− 9 4.2	2.143	3.012	11.2	20.5

406407 2007 TZ_{119} 3 8.2 184°.21 3°.1/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.62	+11 28.4	2.171	2.984	12.6	22.0
2 11	11 38.09	+12 21.2	2.089	2.985	9.5	21.8
2 21	11 30.47	+13 20.3	2.032	2.985	6.1	21.6
3 2	11 21.35	+14 19.4	2.003	2.984	3.3	21.4
3 12	11 11.60	+15 11.8	2.005	2.982	4.2	21.5
3 22	11 2.18	+15 52.0	2.035	2.979	7.4	21.7
4 1	10 54.01	+16 16.2	2.094	2.976	10.8	21.9
4 11	10 47.77	+16 23.5	2.175	2.971	13.7	22.0

192640 1999 RY_{20} 3 8.2 266°.97 0°.1/ 8.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.06	+ 3 57.7	2.065	2.863	13.6	20.3
2 11	11 37.93	+ 3 54.8	1.962	2.847	10.6	20.1
2 21	11 30.55	+ 4 1.5	1.882	2.831	6.9	19.8
3 2	11 21.45	+ 4 15.2	1.829	2.814	2.8	19.5
3 12	11 11.51	+ 4 31.8	1.806	2.797	1.6	19.4
3 22	11 1.73	+ 4 47.0	1.812	2.780	6.0	19.7
4 1	10 53.13	+ 4 56.6	1.845	2.763	10.0	19.9
4 11	10 46.51	+ 4 57.5	1.903	2.746	13.6	20.1

436350 2010 JU_{77} 3 8.2 227°.91 4°.4/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.38	−13 31.6	2.698	3.413	12.8	21.5
2 11	11 31.59	−13 26.4	2.591	3.406	10.7	21.3
2 21	11 26.21	−13 2.7	2.505	3.398	8.3	21.1
3 2	11 19.67	−12 20.7	2.445	3.390	5.9	21.0
3 12	11 12.60	−11 22.6	2.413	3.382	4.4	20.8
3 22	11 5.67	−10 12.5	2.410	3.373	5.2	20.9
4 1	10 59.57	− 8 55.9	2.436	3.364	7.4	21.0
4 11	10 54.87	− 7 39.1	2.489	3.355	10.0	21.2

363428 2003 SD_{30} 3 8.2 134°.17 0°.7/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.90	+ 0 12.2	2.061	2.847	14.1	22.4
2 11	11 37.49	+ 0 38.1	1.985	2.863	10.9	22.3
2 21	11 30.03	+ 1 18.0	1.934	2.878	7.1	22.1
3 2	11 21.15	+ 2 8.3	1.909	2.893	3.0	21.8
3 12	11 11.75	+ 3 3.3	1.915	2.906	1.5	21.7
3 22	11 2.77	+ 3 57.2	1.950	2.919	5.5	22.0
4 1	10 55.10	+ 4 44.5	2.013	2.931	9.3	22.3
4 11	10 49.37	+ 5 20.9	2.101	2.943	12.6	22.5

384995 2012 TK_{208} 3 8.2 185°.35 0°.2/ 8.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.53	+ 2 35.1	2.401	3.195	12.1	21.3
2 11	11 34.03	+ 2 49.0	2.312	3.195	9.3	21.1
2 21	11 27.78	+ 3 13.0	2.247	3.195	6.0	20.9
3 2	11 20.28	+ 3 44.3	2.210	3.194	2.4	20.6
3 12	11 12.26	+ 4 18.7	2.202	3.194	1.3	20.5
3 22	11 4.49	+ 4 51.8	2.224	3.193	5.0	20.8
4 1	10 57.73	+ 5 19.6	2.275	3.193	8.4	21.0
4 11	10 52.56	+ 5 38.8	2.350	3.192	11.4	21.2

404300 2013 EV_{113} 3 8.2 277°.14 1°.5/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.83	+ 3 46.6	1.521	2.347	16.4	20.9
2 11	11 34.57	+ 4 46.7	1.436	2.338	12.5	20.7
2 21	11 28.68	+ 6 5.7	1.372	2.329	8.0	20.4
3 2	11 20.78	+ 7 36.9	1.334	2.320	3.0	20.1
3 12	11 11.93	+ 9 10.4	1.322	2.311	3.1	20.0
3 22	11 3.38	+10 35.7	1.338	2.303	8.2	20.3
4 1	10 56.35	+11 44.1	1.378	2.294	12.9	20.6
4 11	10 51.75	+12 30.4	1.440	2.285	17.1	20.8

415908 2001 UP_{23} 3 8.2 112°.84 0°.7/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.30	+ 1 47.1	2.034	2.823	14.1	21.0
2 11	11 38.55	+ 1 48.0	1.960	2.840	10.9	20.8
2 21	11 30.71	+ 2 0.4	1.910	2.855	7.1	20.6
3 2	11 21.42	+ 2 21.5	1.887	2.871	3.0	20.4
3 12	11 11.61	+ 2 46.9	1.894	2.886	1.5	20.3
3 22	11 2.27	+ 3 11.9	1.930	2.900	5.5	20.6
4 1	10 54.28	+ 3 32.3	1.995	2.914	9.3	20.8
4 11	10 48.31	+ 3 44.7	2.084	2.928	12.5	21.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
209609 2005 AJ_2			3 8.2 71°.18		3°.5/ 5.3 18	
	h m	° ′			°	m
2 1	11 40.14	+ 9 17.0	1.465	2.302	16.3	19.7
2 11	11 36.18	+10 25.3	1.403	2.312	12.2	19.5
2 21	11 29.55	+11 44.8	1.364	2.323	7.8	19.3
3 2	11 21.04	+13 6.6	1.349	2.333	3.9	19.1
3 12	11 11.85	+14 20.1	1.362	2.344	5.0	19.1
3 22	11 3.25	+15 16.9	1.401	2.354	9.2	19.4
4 1	10 56.39	+15 51.7	1.464	2.365	13.4	19.7
4 11	10 52.04	+16 3.2	1.548	2.375	16.9	19.9
194277 2001 UC_{28}			3 8.2 167°.79		3°.2/ 5.6 18	
2 1	11 44.18	+10 12.6	1.706	2.529	15.0	21.4
2 11	11 39.01	+11 2.8	1.632	2.533	11.3	21.2
2 21	11 31.29	+12 1.7	1.580	2.536	7.3	20.9
3 2	11 21.73	+13 2.0	1.556	2.539	3.6	20.7
3 12	11 11.42	+13 55.4	1.559	2.541	4.5	20.8
3 22	11 1.60	+14 35.0	1.591	2.542	8.4	21.0
4 1	10 53.36	+14 56.6	1.648	2.543	12.4	21.3
4 11	10 47.51	+14 58.7	1.727	2.544	15.9	21.5
373462 2000 OP_{21}			3 8.2 204°.00		4°.9/13.7 17	
2 1	11 41.04	−13 26.0	2.653	3.358	13.2	22.3
2 11	11 35.94	−13 46.2	2.545	3.352	11.1	22.1
2 21	11 29.04	−13 49.3	2.459	3.346	8.7	22.0
3 2	11 20.82	−13 34.6	2.399	3.339	6.4	21.8
3 12	11 11.95	−13 3.1	2.367	3.330	5.0	21.7
3 22	11 3.21	−12 18.3	2.365	3.322	5.7	21.7
4 1	10 55.37	−11 24.7	2.392	3.312	8.0	21.9
4 11	10 49.08	−10 28.4	2.445	3.302	10.5	22.0
372543 2009 TL_{18}			3 8.2 218°.37		0°.5/ 8.7 17	
2 1	11 42.12	+ 1 56.7	2.251	3.039	13.0	21.7
2 11	11 36.97	+ 2 6.5	2.151	3.031	10.1	21.5
2 21	11 29.80	+ 2 27.5	2.076	3.022	6.6	21.3
3 2	11 21.13	+ 2 57.1	2.029	3.013	2.8	21.0
3 12	11 11.77	+ 3 31.0	2.011	3.003	1.4	20.9
3 22	11 2.60	+ 4 4.5	2.023	2.992	5.4	21.2
4 1	10 54.53	+ 4 33.0	2.064	2.981	9.2	21.4
4 11	10 48.25	+ 4 53.0	2.129	2.969	12.5	21.5
205632 2001 WK_{13}			3 8.2 152°.84		3°.8/ 4.6 18	
2 1	11 43.59	+11 51.7	1.850	2.672	14.0	21.7
2 11	11 38.34	+13 1.4	1.781	2.682	10.6	21.5
2 21	11 30.73	+14 18.1	1.736	2.690	6.9	21.3
3 2	11 21.48	+15 33.9	1.719	2.698	4.0	21.1
3 12	11 11.59	+16 40.2	1.730	2.705	5.1	21.2
3 22	11 2.19	+17 30.3	1.770	2.711	8.6	21.4
4 1	10 54.27	+18 0.3	1.836	2.717	12.1	21.6
4 11	10 48.57	+18 9.4	1.924	2.722	15.2	21.8
386243 2008 AO_{87}			3 8.2 100°.54		5°.0/ 1.4 18	
2 1	11 36.53	+18 35.3	2.440	3.270	10.8	20.8
2 11	11 32.50	+20 3.3	2.381	3.282	8.3	20.6
2 21	11 26.77	+21 31.7	2.348	3.293	6.0	20.5
3 2	11 19.88	+22 53.6	2.344	3.304	5.0	20.5
3 12	11 12.55	+24 2.2	2.369	3.315	6.2	20.6
3 22	11 5.57	+24 52.8	2.421	3.326	8.4	20.7
4 1	10 59.63	+25 23.2	2.499	3.337	10.8	20.9
4 11	10 55.30	+25 33.4	2.599	3.347	13.0	21.1
404936 2014 MN_7			3 8.2 178°.73		4°.6/ 2.9 18	
2 1	11 41.84	+14 42.5	2.156	2.978	12.3	22.1
2 11	11 36.81	+16 13.7	2.081	2.981	9.3	21.9
2 21	11 29.69	+17 50.0	2.032	2.983	6.4	21.7
3 2	11 21.07	+19 23.2	2.013	2.984	4.6	21.6
3 12	11 11.82	+20 45.0	2.022	2.984	5.9	21.7
3 22	11 2.90	+21 48.7	2.061	2.983	8.8	21.8
4 1	10 55.21	+22 30.9	2.126	2.981	11.8	22.0
4 11	10 49.44	+22 50.7	2.213	2.978	14.5	22.2
259227 2003 BO_{27}			3 8.2 17°.31		3°.2/10.7 18	
2 1	11 36.29	− 4 7.4	1.334	2.145	19.0	19.8
2 11	11 33.52	− 4 14.5	1.265	2.151	15.1	19.5
2 21	11 28.01	− 3 58.3	1.215	2.157	10.6	19.3
3 2	11 20.50	− 3 20.7	1.188	2.165	5.8	19.0
3 12	11 12.17	− 2 27.6	1.185	2.174	3.3	18.9
3 22	11 4.37	− 1 27.4	1.208	2.184	6.9	19.1
4 1	10 58.29	− 0 29.4	1.254	2.195	11.6	19.4
4 11	10 54.79	+ 0 18.6	1.322	2.207	15.8	19.7
481284 2005 YB_{65}			3 8.2 57°.08		19°.2/16.1 18	
2 1	11 43.28	+39 28.7	1.035	1.882	20.7	20.2
2 11	11 40.69	+43 21.5	1.020	1.889	19.4	20.1
2 21	11 33.47	+46 41.9	1.025	1.896	19.4	20.1
3 2	11 22.78	+49 7.8	1.050	1.903	20.6	20.2
3 12	11 10.85	+50 27.0	1.091	1.910	22.5	20.4
3 22	11 0.20	+50 39.5	1.146	1.918	24.6	20.6
4 1	10 52.84	+49 53.9	1.213	1.925	26.5	20.7
4 11	10 49.73	+48 23.0	1.288	1.933	28.1	20.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
191962 2005 UJ_{483}			3 8.3 278°.87		0°.1/ 8.1 18	
	h m	° ′			°	m
2 1	11 40.68	+ 2 22.8	1.385	2.207	17.8	20.5
2 11	11 37.01	+ 2 48.3	1.301	2.200	13.8	20.2
2 21	11 30.39	+ 3 32.6	1.238	2.193	9.0	19.9
3 2	11 21.50	+ 4 30.8	1.199	2.185	3.5	19.5
3 12	11 11.54	+ 5 34.8	1.186	2.178	2.2	19.4
3 22	11 1.92	+ 6 35.2	1.199	2.170	7.9	19.7
4 1	10 54.05	+ 7 23.6	1.236	2.163	13.1	20.0
4 11	10 48.90	+ 7 54.4	1.294	2.156	17.6	20.3
178162 2006 UG_{18}			3 8.3 85°.23		0°.3/ 7.9 18	
2 1	11 43.47	+ 3 46.1	1.702	2.510	15.7	21.2
2 11	11 38.24	+ 4 5.8	1.639	2.531	11.9	21.0
2 21	11 30.64	+ 4 38.0	1.599	2.551	7.6	20.8
3 2	11 21.42	+ 5 18.1	1.585	2.571	2.9	20.5
3 12	11 11.68	+ 5 59.6	1.599	2.590	2.0	20.5
3 22	11 2.54	+ 6 36.4	1.642	2.610	6.5	20.9
4 1	10 55.01	+ 7 3.5	1.711	2.629	10.7	21.1
4 11	10 49.76	+ 7 17.8	1.803	2.648	14.2	21.4
91120 1998 HR_{99}			3 8.3 336°.62		0°.3/ 7.9 18	
2 1	11 36.29	+ 2 2.6	1.755	2.570	15.0	19.2
2 11	11 32.99	+ 2 43.4	1.671	2.566	11.5	19.0
2 21	11 27.45	+ 3 40.5	1.609	2.563	7.4	18.7
3 2	11 20.25	+ 4 49.0	1.574	2.560	2.9	18.4
3 12	11 12.33	+ 6 1.8	1.565	2.557	1.9	18.3
3 22	11 4.72	+ 7 10.8	1.585	2.554	6.6	18.6
4 1	10 58.42	+ 8 8.9	1.630	2.552	10.9	18.9
4 11	10 54.18	+ 8 51.3	1.698	2.550	14.6	19.1
331331 2012 BC_{17}			3 8.3 316°.77		0°.8/ 8.8 17	
2 1	11 39.58	+ 1 55.6	1.455	2.275	17.3	20.1
2 11	11 36.12	+ 1 54.3	1.363	2.259	13.5	19.8
2 21	11 29.83	+ 2 9.0	1.292	2.245	9.0	19.5
3 2	11 21.30	+ 2 36.7	1.246	2.231	3.8	19.2
3 12	11 11.67	+ 3 11.9	1.225	2.217	2.0	19.0
3 22	11 2.27	+ 3 47.5	1.230	2.204	7.4	19.3
4 1	10 54.46	+ 4 16.3	1.259	2.191	12.5	19.5
4 11	10 49.26	+ 4 32.9	1.310	2.179	17.0	19.8
502490 2015 BC_{357}			3 8.3 313°.28		1°.4/ 6.9 17	
2 1	11 39.39	+ 6 49.3	1.902	2.719	13.9	21.0
2 11	11 35.17	+ 7 17.1	1.818	2.716	10.5	20.7
2 21	11 28.76	+ 7 54.8	1.758	2.713	6.7	20.5
3 2	11 20.75	+ 8 37.5	1.724	2.710	2.6	20.2
3 12	11 12.07	+ 9 19.1	1.719	2.707	2.7	20.2
3 22	11 3.71	+ 9 53.8	1.741	2.704	6.8	20.5
4 1	10 56.64	+10 16.9	1.790	2.702	10.7	20.7
4 11	10 51.59	+10 25.8	1.862	2.699	14.1	20.9
280662 2005 EY_{43}			3 8.3 155°.93		0°.3/ 8.6 17	
2 1	11 37.64	+ 1 13.4	2.450	3.240	12.0	21.6
2 11	11 33.32	+ 1 42.0	2.364	3.244	9.2	21.4
2 21	11 27.31	+ 2 22.2	2.302	3.249	6.0	21.2
3 2	11 20.12	+ 3 10.7	2.269	3.253	2.4	21.0
3 12	11 12.46	+ 4 2.9	2.265	3.257	1.3	20.9
3 22	11 5.06	+ 4 53.7	2.291	3.260	4.9	21.2
4 1	10 58.63	+ 5 38.7	2.346	3.263	8.2	21.4
4 11	10 53.75	+ 6 14.1	2.425	3.266	11.1	21.6
456843 2007 UG_{43}			3 8.3 71°.64		2°.0/ 6.7 18	
2 1	11 42.86	+ 6 52.4	1.472	2.299	16.7	21.5
2 11	11 38.09	+ 7 34.4	1.417	2.320	12.6	21.3
2 21	11 30.68	+ 8 28.1	1.383	2.340	7.9	21.1
3 2	11 21.47	+ 9 26.5	1.375	2.361	3.2	20.9
3 12	11 11.70	+10 20.8	1.393	2.381	3.4	20.9
3 22	11 2.66	+11 3.7	1.439	2.401	8.0	21.3
4 1	10 55.44	+11 30.2	1.510	2.422	12.3	21.6
4 11	10 50.75	+11 38.5	1.602	2.442	15.9	21.8
10180 1996 EE_2			3 8.3 130°.04		0°.5/ 8.7 18	
2 1	11 41.37	− 0 12.8	1.658	2.459	16.3	18.6
2 11	11 36.87	+ 0 27.5	1.584	2.470	12.6	18.4
2 21	11 29.92	+ 1 26.4	1.532	2.480	8.2	18.2
3 2	11 21.22	+ 2 39.1	1.506	2.490	3.4	17.9
3 12	11 11.83	+ 3 57.8	1.508	2.500	1.7	17.8
3 22	11 2.91	+ 5 13.8	1.538	2.509	6.6	18.1
4 1	10 55.54	+ 6 19.4	1.595	2.517	11.0	18.4
4 11	10 50.46	+ 7 9.3	1.674	2.525	14.8	18.7
348409 2005 JQ_{117}			3 8.3 240°.29		4°.1/ 3.3 17	
2 1	11 37.29	+15 8.6	2.322	3.150	11.3	20.8
2 11	11 33.25	+16 14.3	2.242	3.145	8.6	20.6
2 21	11 27.37	+17 23.8	2.188	3.140	5.8	20.4
3 2	11 20.18	+18 30.4	2.162	3.135	4.1	20.3
3 12	11 12.44	+19 27.7	2.165	3.130	5.2	20.4
3 22	11 4.98	+20 10.4	2.196	3.125	7.9	20.5
4 1	10 58.56	+20 35.4	2.254	3.120	10.8	20.7
4 11	10 53.82	+20 41.8	2.333	3.115	13.4	20.9

97518 2000 DR_6 3 8.3 71°51 1°4/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 37.54	+ 5 59.9	2.012	2.828	13.3	19.3
2 11	11 33.56	+ 6 44.5	1.938	2.836	10.0	19.1
2 21	11 27.60	+ 7 39.7	1.888	2.843	6.3	18.9
3 2	11 20.27	+ 8 40.0	1.865	2.851	2.5	18.7
3 12	11 12.41	+ 9 38.9	1.871	2.859	2.6	18.7
3 22	11 4.92	+10 30.3	1.906	2.867	6.4	19.0
4 1	10 58.64	+11 9.5	1.967	2.875	10.1	19.2
4 11	10 54.20	+11 33.5	2.052	2.883	13.2	19.4

89126 2001 UV_3 3 8.3 156°74 1°0/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.54	+ 5 20.1	2.256	3.058	12.5	20.6
2 11	11 35.63	+ 5 58.9	2.175	3.065	9.5	20.4
2 21	11 28.85	+ 6 47.5	2.119	3.072	6.0	20.2
3 2	11 20.75	+ 7 41.4	2.092	3.078	2.3	20.0
3 12	11 12.12	+ 8 35.0	2.094	3.083	2.2	20.0
3 22	11 3.83	+ 9 22.7	2.126	3.088	5.8	20.2
4 1	10 56.66	+10 0.3	2.187	3.092	9.3	20.5
4 11	10 51.24	+10 25.0	2.271	3.096	12.3	20.7

350011 2010 HJ_{74} 3 8.3 236°75 9°1/19.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.06	−29 40.3	3.032	3.604	13.9	21.1
2 11	11 36.08	−30 49.7	2.920	3.593	12.8	21.0
2 21	11 29.25	−31 39.9	2.826	3.582	11.5	20.8
3 2	11 20.98	−32 7.4	2.754	3.571	10.3	20.7
3 12	11 11.93	−32 10.3	2.705	3.559	9.4	20.6
3 22	11 2.88	−31 49.2	2.681	3.547	9.2	20.6
4 1	10 54.64	−31 7.1	2.682	3.534	9.7	20.6
4 11	10 47.91	−30 9.4	2.707	3.521	10.9	20.7

50012 2000 AS_{30} 3 8.3 170°36 0°9/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.90	+ 0 18.5	1.753	2.546	15.9	19.6
2 11	11 39.54	+ 0 31.5	1.670	2.550	12.4	19.4
2 21	11 31.66	+ 1 0.4	1.608	2.554	8.2	19.1
3 2	11 21.93	+ 1 41.8	1.573	2.556	3.6	18.9
3 12	11 11.42	+ 2 30.0	1.567	2.558	1.7	18.7
3 22	11 1.30	+ 3 18.3	1.589	2.560	6.4	19.0
4 1	10 52.69	+ 4 0.4	1.638	2.560	10.8	19.3
4 11	10 46.40	+ 4 31.3	1.711	2.560	14.6	19.5

43908 Hiraku 3 8.3 158°31 4°5/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.33	+14 43.0	1.846	2.674	13.8	19.0
2 11	11 38.20	+15 39.5	1.776	2.678	10.5	18.8
2 21	11 30.70	+16 40.0	1.729	2.682	7.0	18.6
3 2	11 21.52	+17 36.8	1.709	2.685	4.6	18.4
3 12	11 11.70	+18 22.0	1.718	2.688	5.7	18.5
3 22	11 2.35	+18 49.9	1.754	2.691	9.0	18.7
4 1	10 54.50	+18 57.7	1.816	2.694	12.4	18.9
4 11	10 48.88	+18 45.6	1.899	2.695	15.5	19.1

420839 2013 JM_{33} 3 8.3 256°67 3°3/ 5.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.02	+10 45.4	1.862	2.685	13.9	22.2
2 11	11 37.46	+11 38.0	1.765	2.667	10.6	21.9
2 21	11 30.44	+12 39.9	1.692	2.647	6.9	21.7
3 2	11 21.52	+13 44.3	1.645	2.627	3.7	21.4
3 12	11 11.64	+14 43.2	1.627	2.607	4.6	21.4
3 22	11 1.94	+15 29.1	1.637	2.586	8.5	21.6
4 1	10 53.55	+15 57.1	1.673	2.565	12.5	21.8
4 11	10 47.34	+16 4.9	1.731	2.543	16.1	22.0

64470 2001 VJ_{42} 3 8.3 92°93 4°4/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.40	+12 32.8	1.480	2.315	16.2	19.3
2 11	11 39.37	+13 32.5	1.423	2.330	12.3	19.0
2 21	11 31.57	+14 38.7	1.389	2.345	8.0	18.8
3 2	11 21.87	+15 42.3	1.380	2.360	4.7	18.7
3 12	11 11.54	+16 33.8	1.398	2.374	5.8	18.8
3 22	11 1.93	+17 6.3	1.442	2.389	9.6	19.0
4 1	10 54.20	+17 16.6	1.511	2.403	13.6	19.3
4 11	10 49.11	+17 5.2	1.600	2.416	17.0	19.5

231326 2006 DC_8 3 8.3 124°07 1°4/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.23	+ 7 3.2	2.085	2.897	13.0	21.1
2 11	11 35.56	+ 7 30.5	2.007	2.902	9.9	20.9
2 21	11 28.89	+ 8 6.3	1.952	2.906	6.2	20.7
3 2	11 20.79	+ 8 46.2	1.925	2.911	2.5	20.4
3 12	11 12.15	+ 9 24.5	1.927	2.915	2.5	20.4
3 22	11 3.86	+ 9 56.1	1.957	2.919	6.3	20.7
4 1	10 56.79	+10 17.1	2.015	2.923	9.9	20.9
4 11	10 51.59	+10 25.2	2.097	2.927	13.0	21.1

313650 2003 SU_{133} 3 8.3 159°04 1°9/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.23	+ 7 41.2	2.060	2.868	13.3	21.7
2 11	11 37.85	+ 8 24.1	1.983	2.876	10.1	21.5
2 21	11 30.36	+ 9 16.0	1.930	2.883	6.3	21.3
3 2	11 21.37	+10 11.2	1.905	2.890	2.7	21.1
3 12	11 11.81	+11 3.4	1.909	2.895	3.0	21.1
3 22	11 2.63	+11 46.8	1.943	2.900	6.7	21.4
4 1	10 54.76	+12 17.0	2.005	2.904	10.4	21.6
4 11	10 48.87	+12 32.0	2.090	2.907	13.5	21.8

130663 2000 SY_{104} 3 8.3 51°70 1°7/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.75	− 2 38.9	1.329	2.141	19.0	19.3
2 11	11 35.33	− 2 13.2	1.266	2.156	14.9	19.1
2 21	11 29.14	− 1 23.6	1.223	2.170	10.0	18.9
3 2	11 20.96	− 0 14.7	1.203	2.185	4.7	18.6
3 12	11 12.07	+ 1 5.1	1.209	2.201	2.2	18.5
3 22	11 3.79	+ 2 25.3	1.241	2.216	7.0	18.8
4 1	10 57.35	+ 3 36.2	1.297	2.232	11.9	19.1
4 11	10 53.51	+ 4 30.9	1.375	2.249	16.1	19.4

223293 2003 HM_{54} 3 8.3 328°65 5°7/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.22	+18 30.6	1.671	2.504	14.8	20.3
2 11	11 39.98	+19 4.4	1.596	2.499	11.5	20.1
2 21	11 32.02	+19 37.7	1.544	2.494	8.0	19.9
3 2	11 22.09	+20 2.6	1.517	2.489	5.8	19.7
3 12	11 11.39	+20 11.7	1.518	2.484	6.9	19.8
3 22	11 1.21	+20 0.4	1.545	2.480	10.1	20.0
4 1	10 52.76	+19 27.5	1.597	2.476	13.7	20.2
4 11	10 46.84	+18 35.0	1.669	2.472	17.0	20.4

47116 1999 CL_{64} 3 8.3 72°02 0°9/ 9.3 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.34	− 2 15.1	2.102	2.891	13.7	18.2
2 11	11 31.82	− 1 27.3	2.024	2.902	10.6	18.0
2 21	11 26.48	− 0 22.6	1.969	2.913	7.1	17.8
3 2	11 19.85	+ 0 54.9	1.941	2.923	3.2	17.6
3 12	11 12.73	+ 2 19.1	1.942	2.934	1.4	17.5
3 22	11 5.95	+ 3 42.7	1.973	2.945	5.2	17.8
4 1	11 0.27	+ 4 59.0	2.031	2.956	8.9	18.0
4 11	10 56.29	+ 6 2.7	2.114	2.967	12.1	18.2

224534 2005 WV_{110} 3 8.3 135°19 0°9/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.62	− 0 35.4	2.159	2.945	13.5	21.3
2 11	11 35.02	− 0 10.0	2.078	2.955	10.5	21.1
2 21	11 28.50	+ 0 29.5	2.021	2.965	6.9	20.9
3 2	11 20.65	+ 1 19.8	1.991	2.974	3.1	20.7
3 12	11 12.26	+ 2 16.0	1.991	2.983	1.4	20.6
3 22	11 4.22	+ 3 12.1	2.020	2.991	5.2	20.8
4 1	10 57.34	+ 4 2.6	2.077	2.999	8.9	21.1
4 11	10 52.23	+ 4 43.3	2.159	3.006	12.0	21.3

376735 1999 TA_{22} 3 8.3 75°24 0°0/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.53	+ 1 40.5	1.918	2.724	14.2	21.3
2 11	11 33.67	+ 2 17.9	1.842	2.732	10.9	21.1
2 21	11 27.75	+ 3 9.9	1.788	2.739	7.0	20.9
3 2	11 20.37	+ 4 12.0	1.761	2.747	2.8	20.6
3 12	11 12.43	+ 5 17.5	1.763	2.754	1.7	20.5
3 22	11 4.85	+ 6 19.8	1.793	2.762	5.9	20.8
4 1	10 58.52	+ 7 12.6	1.849	2.770	9.9	21.1
4 11	10 54.11	+ 7 51.8	1.930	2.777	13.3	21.3

303328 2004 TO_{112} 3 8.3 178°05 4°1/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.89	− 8 25.3	1.855	2.613	16.4	20.9
2 11	11 37.21	− 8 29.1	1.765	2.615	13.4	20.7
2 21	11 30.18	− 8 11.6	1.696	2.617	9.8	20.5
3 2	11 21.38	− 7 33.1	1.652	2.617	6.2	20.3
3 12	11 11.80	− 6 37.4	1.635	2.617	4.1	20.1
3 22	11 2.51	− 5 30.6	1.646	2.617	6.2	20.3
4 1	10 54.57	− 4 20.6	1.685	2.616	9.9	20.5
4 11	10 48.78	− 3 15.1	1.748	2.614	13.5	20.7

290006 2005 PL_{24} 3 8.3 131°11 2°2/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.76	− 6 48.2	3.405	4.143	10.0	22.3
2 11	11 32.16	− 6 40.6	3.320	4.160	8.0	22.2
2 21	11 26.36	− 6 21.5	3.259	4.176	5.7	22.0
3 2	11 19.75	− 5 52.3	3.226	4.192	3.5	21.9
3 12	11 12.83	− 5 15.4	3.224	4.207	2.2	21.8
3 22	11 6.12	− 4 33.8	3.253	4.222	3.6	21.9
4 1	11 0.13	− 3 51.1	3.312	4.236	5.8	22.1
4 11	10 55.25	− 3 10.7	3.398	4.249	8.0	22.3

258363 2001 WX_{64} 3 8.3 106°46 1°4/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.98	+ 5 51.3	1.842	2.658	14.3	21.0
2 11	11 35.61	+ 6 31.2	1.768	2.665	10.9	20.7
2 21	11 29.03	+ 7 22.5	1.717	2.672	6.8	20.5
3 2	11 20.89	+ 8 19.6	1.693	2.679	2.7	20.3
3 12	11 12.14	+ 9 15.6	1.698	2.686	2.7	20.3
3 22	11 3.81	+10 3.9	1.730	2.693	6.8	20.6
4 1	10 56.85	+10 39.4	1.789	2.700	10.8	20.8
4 11	10 51.96	+10 59.2	1.871	2.706	14.1	21.0

371029 2005 UP_{97} 3 8.3 163°73 2°2/ 6.0 13 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.97	+ 8 20.9	2.091	2.907	12.9	22.1
2 11	11 35.40	+ 9 10.1	2.012	2.910	9.7	21.9
2 21	11 28.81	+10 7.9	1.958	2.913	6.1	21.7
3 2	11 20.79	+11 8.8	1.932	2.916	2.7	21.4
3 12	11 12.20	+12 6.0	1.935	2.919	3.3	21.5
3 22	11 3.95	+12 53.7	1.966	2.921	6.8	21.7
4 1	10 56.90	+13 27.6	2.025	2.923	10.4	21.9
4 11	10 51.72	+13 45.4	2.107	2.924	13.4	22.1

480168 2015 FY_{302} 3 8.3 288°.02 0°.7/ 9.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 33.95	− 1 50.1	2.375	3.162	12.4	21.4
2 11	11 30.79	− 0 57.9	2.264	3.142	9.7	21.2
2 21	11 25.89	+ 0 11.3	2.177	3.121	6.5	21.0
3 2	11 19.68	+ 1 34.2	2.117	3.100	2.8	20.7
3 12	11 12.83	+ 3 5.2	2.088	3.080	1.3	20.5
3 22	11 6.07	+ 4 37.6	2.088	3.059	5.1	20.8
4 1	11 0.19	+ 6 4.4	2.117	3.038	8.8	20.9
4 11	10 55.81	+ 7 19.8	2.171	3.017	12.0	21.1

237284 2008 XR_{16} 3 8.3 35°.89 0°.9/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.63	− 0 15.6	1.813	2.617	15.0	20.6
2 11	11 33.08	+ 0 6.8	1.740	2.627	11.6	20.4
2 21	11 27.41	+ 0 45.0	1.690	2.637	7.7	20.2
3 2	11 20.25	+ 1 35.6	1.665	2.648	3.4	19.9
3 12	11 12.53	+ 2 32.4	1.668	2.659	1.6	19.8
3 22	11 5.22	+ 3 28.8	1.698	2.671	5.8	20.1
4 1	10 59.21	+ 4 18.4	1.755	2.683	9.8	20.4
4 11	10 55.18	+ 4 56.4	1.835	2.695	13.3	20.6

387196 2012 TC_{303} 3 8.3 96°.64 2°.3/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.27	− 4 43.2	2.677	3.432	12.0	22.1
2 11	11 35.06	− 4 47.2	2.603	3.456	9.5	22.0
2 21	11 28.31	− 4 38.7	2.554	3.479	6.7	21.8
3 2	11 20.52	− 4 19.0	2.532	3.503	3.8	21.7
3 12	11 12.39	− 3 51.0	2.540	3.526	2.3	21.6
3 22	11 4.60	− 3 18.3	2.578	3.548	4.3	21.8
4 1	10 57.78	− 2 45.1	2.646	3.570	7.1	22.0
4 11	10 52.45	− 2 15.0	2.740	3.592	9.6	22.2

13700 Connors 3 8.3 193°.02 2°.5/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.49	− 3 36.7	1.862	2.637	15.8	19.3
2 11	11 39.21	− 3 36.4	1.769	2.635	12.6	19.1
2 21	11 31.48	− 3 18.6	1.698	2.633	8.8	18.8
3 2	11 21.92	− 2 44.6	1.653	2.630	4.7	18.6
3 12	11 11.51	− 1 58.9	1.636	2.625	2.6	18.4
3 22	11 1.37	− 1 7.2	1.649	2.621	6.0	18.7
4 1	10 52.60	− 0 16.6	1.689	2.615	10.2	18.9
4 11	10 46.04	+ 0 26.9	1.753	2.608	14.0	19.1

468097 2013 VC_{4} 3 8.3 185°.45 4°.3/ 3.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.72	+14 35.3	2.180	3.007	12.0	22.0
2 11	11 34.44	+15 49.1	2.104	3.007	9.1	21.8
2 21	11 28.20	+17 7.5	2.054	3.007	6.1	21.6
3 2	11 20.56	+18 23.1	2.032	3.006	4.3	21.5
3 12	11 12.34	+19 28.6	2.040	3.005	5.4	21.6
3 22	11 4.44	+20 18.3	2.075	3.004	8.3	21.7
4 1	10 57.70	+20 48.7	2.136	3.002	11.3	21.9
4 11	10 52.76	+20 59.2	2.219	3.001	14.0	22.1

169279 2001 SL_{230} 3 8.3 79°.90 3°.6/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.70	+15 4.1	2.246	3.067	11.9	20.2
2 11	11 36.47	+15 36.0	2.179	3.078	9.0	20.0
2 21	11 29.36	+16 9.6	2.138	3.089	6.0	19.9
3 2	11 20.97	+16 39.3	2.124	3.101	3.7	19.7
3 12	11 12.15	+17 0.1	2.140	3.112	4.5	19.8
3 22	11 3.78	+17 8.4	2.184	3.123	7.3	20.0
4 1	10 56.65	+17 2.2	2.255	3.135	10.2	20.2
4 11	10 51.34	+16 41.6	2.349	3.146	12.8	20.4

170410 2003 UN_{27} 3 8.3 258°.25 3°.4/ 5.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.69	+11 12.4	1.836	2.658	14.1	20.5
2 11	11 38.83	+11 59.8	1.736	2.636	10.8	20.3
2 21	11 31.40	+12 56.0	1.660	2.615	7.1	20.0
3 2	11 21.96	+13 54.2	1.610	2.592	3.8	19.8
3 12	11 11.48	+14 46.3	1.589	2.569	4.7	19.8
3 22	11 1.15	+15 25.2	1.596	2.545	8.7	19.9
4 1	10 52.15	+15 45.9	1.629	2.520	12.8	20.1
4 11	10 45.42	+15 46.6	1.683	2.495	16.5	20.3

140517 2001 TV_{169} 3 8.3 154°.19 3°.2/12.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.28	− 7 48.8	2.666	3.410	12.3	20.2
2 11	11 33.74	− 7 58.0	2.573	3.414	10.0	20.1
2 21	11 27.59	− 7 52.9	2.503	3.418	7.3	19.9
3 2	11 20.30	− 7 34.0	2.460	3.422	4.7	19.7
3 12	11 12.52	− 7 3.8	2.446	3.426	3.2	19.6
3 22	11 4.96	− 6 25.8	2.461	3.429	4.7	19.7
4 1	10 58.30	− 5 44.4	2.506	3.432	7.3	19.9
4 11	10 53.07	− 5 4.2	2.576	3.435	9.9	20.1

32867 1993 FL_{20} 3 8.3 200°.86 0°.1/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.65	+ 3 48.6	2.792	3.583	10.7	20.3
2 11	11 33.94	+ 4 5.4	2.697	3.579	8.2	20.1
2 21	11 27.68	+ 4 30.3	2.627	3.576	5.2	19.9
3 2	11 20.33	+ 5 0.7	2.586	3.571	2.0	19.7
3 12	11 12.51	+ 5 32.8	2.576	3.567	1.3	19.6
3 22	11 4.88	+ 6 2.9	2.596	3.562	4.6	19.8
4 1	10 58.11	+ 6 27.7	2.645	3.557	7.6	20.0
4 11	10 52.71	+ 6 44.5	2.720	3.552	10.3	20.2

57848 2001 XC_{81} 3 8.3 264°.34 5°.9/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.51	+17 2.5	1.916	2.752	13.0	19.3
2 11	11 34.72	+18 37.3	1.833	2.739	10.0	19.1
2 21	11 28.64	+20 17.1	1.776	2.725	7.2	18.9
3 2	11 20.82	+21 52.8	1.745	2.711	5.9	18.7
3 12	11 12.21	+23 14.6	1.743	2.697	7.4	18.8
3 22	11 3.83	+24 14.9	1.767	2.683	10.4	18.9
4 1	10 56.74	+24 49.7	1.816	2.668	13.6	19.1
4 11	10 51.72	+24 58.6	1.885	2.653	16.5	19.3

16878 Tombickler 3 8.3 89°.65 2°.8/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.70	+ 7 58.8	1.891	2.713	13.8	17.3
2 11	11 34.50	+ 9 20.6	1.831	2.733	10.3	17.2
2 21	11 28.24	+10 52.4	1.796	2.753	6.4	17.0
3 2	11 20.57	+12 26.5	1.788	2.772	3.1	16.8
3 12	11 12.42	+13 54.0	1.810	2.791	4.0	16.9
3 22	11 4.75	+15 7.7	1.860	2.809	7.6	17.1
4 1	10 58.43	+16 2.5	1.936	2.828	11.1	17.4
4 11	10 54.06	+16 36.7	2.035	2.846	14.1	17.6

147247 2002 XA_{80} 3 8.3 158°.41 1°.3/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.60	− 1 21.6	2.279	3.055	13.2	20.3
2 11	11 36.46	− 1 6.7	2.193	3.063	10.3	20.1
2 21	11 29.43	− 0 38.2	2.131	3.070	6.9	19.9
3 2	11 21.05	+ 0 1.2	2.096	3.076	3.3	19.7
3 12	11 12.12	+ 0 47.4	2.091	3.082	1.6	19.6
3 22	11 3.50	+ 1 35.1	2.116	3.087	5.0	19.8
4 1	10 55.99	+ 2 19.3	2.170	3.091	8.5	20.0
4 11	10 50.23	+ 2 55.8	2.249	3.095	11.7	20.2

22215 1108 $T\text{-}_{2}$ 3 8.3 230°.49 0°.4/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.25	+ 4 6.4	1.839	2.644	14.8	19.0
2 11	11 38.32	+ 4 22.0	1.746	2.636	11.4	18.7
2 21	11 30.95	+ 4 49.8	1.676	2.627	7.4	18.5
3 2	11 21.74	+ 5 25.8	1.632	2.618	2.9	18.2
3 12	11 11.68	+ 6 4.4	1.617	2.608	2.0	18.1
3 22	11 1.87	+ 6 39.6	1.630	2.598	6.6	18.3
4 1	10 53.42	+ 7 6.1	1.671	2.587	11.0	18.6
4 11	10 47.16	+ 7 20.0	1.734	2.577	14.7	18.8

155205 2005 UV_{449} 3 8.3 150°.82 5°.3/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.47	+21 14.0	2.516	3.333	10.9	20.0
2 11	11 37.70	+22 16.6	2.453	3.343	8.5	19.9
2 21	11 30.11	+23 17.1	2.416	3.354	6.3	19.7
3 2	11 21.28	+24 9.0	2.408	3.363	5.3	19.7
3 12	11 12.01	+24 46.7	2.429	3.372	6.3	19.8
3 22	11 3.16	+25 6.6	2.479	3.380	8.4	19.9
4 1	10 55.50	+25 7.5	2.555	3.387	10.8	20.1
4 11	10 49.58	+24 50.5	2.653	3.394	12.9	20.2

83665 2001 TP_{21} 3 8.3 204°.33 2°.0/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.57	+ 7 28.3	2.210	3.021	12.4	20.4
2 11	11 35.09	+ 8 24.9	2.121	3.017	9.4	20.2
2 21	11 28.65	+ 9 31.4	2.057	3.012	5.9	19.9
3 2	11 20.79	+10 42.3	2.021	3.006	2.6	19.7
3 12	11 12.29	+11 50.8	2.015	3.000	3.1	19.7
3 22	11 4.04	+12 50.7	2.039	2.993	6.7	19.9
4 1	10 56.88	+13 37.1	2.090	2.986	10.2	20.1
4 11	10 51.49	+14 7.2	2.164	2.978	13.2	20.3

388696 2007 UH_{139} 3 8.3 78°.65 3°.4/ 4.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.10	+14 10.1	2.223	3.045	12.0	20.8
2 11	11 36.03	+14 46.2	2.160	3.059	9.1	20.6
2 21	11 29.08	+15 24.7	2.121	3.074	5.9	20.4
3 2	11 20.89	+16 0.1	2.111	3.089	3.6	20.3
3 12	11 12.28	+16 27.1	2.129	3.103	4.4	20.4
3 22	11 4.13	+16 41.7	2.176	3.118	7.2	20.6
4 1	10 57.22	+16 41.9	2.250	3.132	10.1	20.8
4 11	10 52.11	+16 27.5	2.347	3.147	12.8	21.0

36674 2000 QA_{222} 3 8.3 240°.74 5°.0/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.21	+13 54.1	1.690	2.523	14.6	19.2
2 11	11 37.80	+15 7.8	1.607	2.513	11.2	18.9
2 21	11 30.76	+16 29.2	1.547	2.501	7.5	18.7
3 2	11 21.71	+17 49.2	1.513	2.490	5.1	18.5
3 12	11 11.73	+18 57.8	1.508	2.477	6.4	18.6
3 22	11 2.07	+19 47.0	1.529	2.465	10.1	18.7
4 1	10 53.91	+20 12.1	1.574	2.452	14.0	18.9
4 11	10 48.16	+20 12.4	1.640	2.438	17.4	19.1

59153 1998 XV_{97} 3 8.3 113°.93 4°.4/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.48	+12 26.1	1.513	2.346	16.0	19.8
2 11	11 39.48	+13 26.8	1.451	2.357	12.1	19.6
2 21	11 31.72	+14 34.4	1.412	2.368	7.9	19.4
3 2	11 22.02	+15 40.0	1.398	2.378	4.6	19.2
3 12	11 11.62	+16 34.0	1.412	2.388	5.7	19.3
3 22	11 1.88	+17 9.3	1.452	2.398	9.6	19.5
4 1	10 53.96	+17 22.4	1.516	2.407	13.6	19.8
4 11	10 48.66	+17 13.3	1.601	2.416	17.1	20.0

123895 2001 DW_{56} 3 8.3 205°.28 0°.0/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 39.54	+ 2 44.4	2.206	3.003	12.9	20.6
2 11	11 35.04	+ 3 2.9	2.116	3.001	9.9	20.4
2 21	11 28.60	+ 3 32.6	2.049	2.998	6.4	20.1
3 2	11 20.77	+ 4 10.3	2.011	2.996	2.6	19.9
3 12	11 12.33	+ 4 51.2	2.001	2.993	1.5	19.8
3 22	11 4.15	+ 5 30.2	2.021	2.990	5.4	20.0
4 1	10 57.07	+ 6 2.7	2.069	2.986	9.1	20.3
4 11	10 51.73	+ 6 25.2	2.140	2.983	12.3	20.5

18135 2000 OQ_{20} 3 8.3 175°.07 1°.0/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.37	− 2 26.2	2.988	3.757	10.5	19.1
2 11	11 31.37	− 1 52.7	2.893	3.760	8.2	19.0
2 21	11 26.01	− 1 7.2	2.824	3.761	5.5	18.8
3 2	11 19.69	− 0 12.3	2.783	3.763	2.7	18.6
3 12	11 12.98	+ 0 48.4	2.772	3.763	1.3	18.5
3 22	11 6.45	+ 1 50.4	2.793	3.764	3.9	18.7
4 1	11 0.67	+ 2 49.4	2.843	3.764	6.8	18.9
4 11	10 56.11	+ 3 41.5	2.919	3.764	9.3	19.0

380475 2003 WC_{101} 3 8.3 179°.90 3°.1/ 5.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.29	+13 32.8	2.357	3.173	11.6	21.0
2 11	11 36.96	+14 4.8	2.277	3.173	8.8	20.8
2 21	11 29.73	+14 39.8	2.222	3.174	5.8	20.6
3 2	11 21.18	+15 12.8	2.195	3.174	3.3	20.4
3 12	11 12.11	+15 38.5	2.198	3.174	4.0	20.5
3 22	11 3.38	+15 53.1	2.230	3.173	6.9	20.7
4 1	10 55.79	+15 54.1	2.290	3.173	10.0	20.9
4 11	10 49.95	+15 40.9	2.373	3.172	12.7	21.0

224399 2005 UA_{265} 3 8.3 344°.20 0°.9/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.34	− 0 46.1	1.753	2.556	15.5	21.1
2 11	11 33.84	− 0 19.2	1.669	2.555	12.1	20.9
2 21	11 28.06	+ 0 25.5	1.606	2.553	8.0	20.6
3 2	11 20.61	+ 1 24.5	1.568	2.552	3.6	20.4
3 12	11 12.42	+ 2 31.5	1.559	2.551	1.7	20.2
3 22	11 4.56	+ 3 38.8	1.577	2.550	6.1	20.5
4 1	10 58.02	+ 4 39.2	1.621	2.549	10.5	20.7
4 11	10 53.56	+ 5 26.7	1.688	2.548	14.2	21.0

492898 2014 QD_{425} 3 8.3 225°.39 0°.1/ 8.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.02	+ 3 2.4	1.992	2.787	14.2	22.7
2 11	11 38.80	+ 3 24.5	1.891	2.775	11.0	22.5
2 21	11 31.24	+ 3 59.4	1.813	2.762	7.1	22.2
3 2	11 21.88	+ 4 43.6	1.763	2.748	2.8	21.9
3 12	11 11.65	+ 5 31.5	1.742	2.734	1.8	21.8
3 22	11 1.59	+ 6 17.0	1.751	2.718	6.3	22.1
4 1	10 52.77	+ 6 54.4	1.787	2.702	10.5	22.3
4 11	10 46.01	+ 7 19.7	1.848	2.685	14.2	22.5

401867 2000 TM_{25} 3 8.3 165°.43 2°.1/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.67	+ 7 51.7	1.902	2.714	14.1	21.8
2 11	11 38.42	+ 8 33.9	1.824	2.719	10.7	21.6
2 21	11 30.87	+ 9 25.7	1.769	2.724	6.8	21.3
3 2	11 21.67	+10 21.3	1.743	2.728	2.9	21.1
3 12	11 11.82	+11 13.4	1.745	2.731	3.3	21.1
3 22	11 2.37	+11 56.0	1.776	2.733	7.2	21.4
4 1	10 54.33	+12 24.4	1.834	2.735	11.1	21.6
4 11	10 48.42	+12 36.5	1.915	2.736	14.4	21.8

231553 2008 SS_{274} 3 8.3 75°.79 1°.3/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.65	− 1 26.5	2.003	2.794	14.2	21.1
2 11	11 33.77	− 1 6.3	1.916	2.795	11.1	20.9
2 21	11 27.87	− 0 30.4	1.853	2.796	7.5	20.7
3 2	11 20.50	+ 0 18.5	1.815	2.797	3.5	20.5
3 12	11 12.50	+ 1 15.1	1.806	2.798	1.6	20.3
3 22	11 4.79	+ 2 13.3	1.826	2.799	5.5	20.6
4 1	10 58.26	+ 3 6.8	1.873	2.800	9.3	20.8
4 11	10 53.58	+ 3 50.6	1.943	2.801	12.8	21.0

466163 2012 JB_{7} 3 8.3 7°.91 8°.7/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.10	+24 1.4	1.530	2.373	15.4	19.9
2 11	11 38.61	+25 12.9	1.472	2.374	12.3	19.8
2 21	11 31.24	+26 19.5	1.436	2.375	9.7	19.6
3 2	11 21.85	+27 10.2	1.425	2.376	8.7	19.5
3 12	11 11.74	+27 35.7	1.439	2.378	10.0	19.6
3 22	11 2.30	+27 31.5	1.476	2.381	12.8	19.8
4 1	10 54.77	+26 57.6	1.536	2.384	15.9	20.0
4 11	10 49.94	+25 58.0	1.614	2.387	18.7	20.2

308047 2004 TA_{25} 3 8.3 241°.85 0°.4/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.73	+ 0 52.1	1.870	2.665	15.0	22.2
2 11	11 38.04	+ 1 17.5	1.765	2.648	11.7	22.0
2 21	11 30.88	+ 1 59.0	1.683	2.630	7.8	21.7
3 2	11 21.79	+ 2 53.5	1.627	2.611	3.2	21.4
3 12	11 11.70	+ 3 55.1	1.599	2.591	1.7	21.2
3 22	11 1.73	+ 4 56.7	1.601	2.571	6.5	21.5
4 1	10 52.99	+ 5 51.1	1.630	2.549	11.0	21.7
4 11	10 46.41	+ 6 32.9	1.682	2.527	15.0	21.9

223657 2004 PL_{20} 3 8.3 150°.55 1°.5/ 6.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 39.32	+ 6 19.7	2.137	2.948	12.8	21.1
2 11	11 34.87	+ 7 8.2	2.059	2.954	9.7	20.9
2 21	11 28.47	+ 8 6.8	2.005	2.959	6.1	20.6
3 2	11 20.72	+ 9 10.1	1.979	2.965	2.5	20.4
3 12	11 12.41	+10 11.8	1.982	2.969	2.7	20.4
3 22	11 4.44	+11 5.8	2.015	2.974	6.3	20.7
4 1	10 57.64	+11 47.5	2.075	2.978	9.9	20.9
4 11	10 52.62	+12 14.1	2.158	2.982	12.9	21.1

201831 2003 YK_{53} 3 8.3 70°.82 1°.6/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.13	+ 6 53.2	2.036	2.853	13.1	20.4
2 11	11 34.03	+ 7 34.0	1.962	2.860	9.9	20.2
2 21	11 27.96	+ 8 24.3	1.912	2.867	6.2	20.0
3 2	11 20.51	+ 9 18.9	1.889	2.874	2.5	19.7
3 12	11 12.54	+10 11.4	1.895	2.882	2.8	19.8
3 22	11 4.93	+10 56.2	1.929	2.889	6.5	20.0
4 1	10 58.53	+11 28.6	1.990	2.897	10.0	20.3
4 11	10 53.96	+11 46.4	2.074	2.904	13.1	20.5

426661 2013 TW_{2} 3 8.3 198°.83 0°.2/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.92	+ 1 12.0	2.103	2.899	13.5	21.9
2 11	11 34.68	+ 1 42.2	2.013	2.897	10.4	21.7
2 21	11 28.43	+ 2 26.2	1.947	2.895	6.8	21.5
3 2	11 20.73	+ 3 20.4	1.908	2.893	2.8	21.2
3 12	11 12.39	+ 4 19.3	1.898	2.890	1.5	21.1
3 22	11 4.32	+ 5 16.6	1.917	2.887	5.6	21.4
4 1	10 57.38	+ 6 6.8	1.964	2.883	9.4	21.6
4 11	10 52.24	+ 6 45.5	2.035	2.880	12.8	21.8

61532 2000 QS_{62} 3 8.3 80°.69 2°.0/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.98	+ 8 21.3	2.344	3.160	11.7	19.3
2 11	11 32.86	+ 9 11.5	2.277	3.175	8.7	19.1
2 21	11 27.06	+10 8.9	2.235	3.190	5.5	18.9
3 2	11 20.13	+11 8.4	2.221	3.205	2.5	18.7
3 12	11 12.79	+12 4.1	2.236	3.220	3.0	18.8
3 22	11 5.80	+12 51.0	2.281	3.235	6.1	19.0
4 1	10 59.87	+13 25.6	2.353	3.250	9.1	19.2
4 11	10 55.52	+13 45.9	2.449	3.264	11.8	19.4

76126 2000 EW_{3} 3 8.3 53°.29 1°.3/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.59	− 2 55.1	1.955	2.746	14.6	18.0
2 11	11 32.17	− 2 16.9	1.879	2.757	11.4	17.8
2 21	11 26.80	− 1 20.8	1.827	2.769	7.6	17.6
3 2	11 20.07	− 0 10.4	1.800	2.781	3.6	17.3
3 12	11 12.81	+ 1 7.9	1.802	2.793	1.6	17.2
3 22	11 5.92	+ 2 26.9	1.832	2.805	5.4	17.5
4 1	11 0.22	+ 3 39.5	1.889	2.818	9.2	17.7
4 11	10 56.34	+ 4 40.1	1.971	2.831	12.5	18.0

119883 2002 CE_{241} 3 8.3 108°.36 1°.7/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.11	− 1 14.1	2.173	2.948	13.8	19.3
2 11	11 38.36	− 1 22.8	2.098	2.966	10.8	19.1
2 21	11 30.63	− 1 18.8	2.047	2.984	7.3	19.0
3 2	11 21.54	− 1 4.1	2.023	3.001	3.6	18.8
3 12	11 11.96	− 0 42.1	2.028	3.018	1.9	18.7
3 22	11 2.81	− 0 17.1	2.064	3.035	5.1	18.9
4 1	10 54.93	+ 0 6.5	2.128	3.051	8.6	19.2
4 11	10 48.92	+ 0 24.9	2.217	3.067	11.7	19.4

79976 1999 CT_{152} 3 8.3 99°.46 0°.3/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.01	+ 1 32.3	2.227	3.023	12.9	20.1
2 11	11 33.79	+ 1 54.2	2.146	3.029	9.9	19.9
2 21	11 27.75	+ 2 28.0	2.088	3.036	6.4	19.7
3 2	11 20.43	+ 3 10.6	2.058	3.042	2.6	19.5
3 12	11 12.60	+ 3 56.9	2.056	3.048	1.4	19.4
3 22	11 5.08	+ 4 42.0	2.085	3.055	5.2	19.6
4 1	10 58.64	+ 5 20.8	2.140	3.061	8.7	19.9
4 11	10 53.89	+ 5 49.9	2.221	3.067	11.8	20.1

206191 2002 TE_{378} 3 8.3 109°.89 1°.4/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.88	− 1 48.3	2.319	3.100	12.9	20.6
2 11	11 33.62	− 1 32.9	2.237	3.109	10.0	20.5
2 21	11 27.61	− 1 4.0	2.177	3.117	6.8	20.3
3 2	11 20.37	− 0 24.0	2.146	3.125	3.3	20.1
3 12	11 12.64	+ 0 22.8	2.143	3.134	1.6	19.9
3 22	11 5.21	+ 1 11.5	2.169	3.142	4.8	20.2
4 1	10 58.81	+ 1 56.9	2.224	3.150	8.2	20.4
4 11	10 54.04	+ 2 34.9	2.304	3.158	11.2	20.6

168822 2000 SL_{270} 3 8.3 189°.62 1°.6/ 6.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.77	+ 6 26.1	2.043	2.849	13.5	21.8
2 11	11 37.66	+ 7 11.5	1.956	2.849	10.2	21.6
2 21	11 30.38	+ 8 7.6	1.894	2.847	6.5	21.4
3 2	11 21.51	+ 9 9.2	1.859	2.845	2.6	21.1
3 12	11 11.95	+10 9.4	1.854	2.841	2.8	21.1
3 22	11 2.70	+11 1.8	1.879	2.837	6.7	21.3
4 1	10 54.70	+11 41.4	1.931	2.833	10.5	21.6
4 11	10 48.67	+12 5.3	2.006	2.827	13.9	21.8

379039 2008 WA_{15} 3 8.3 110°.76 0°.3/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.63	+ 1 22.6	2.147	2.943	13.3	21.4
2 11	11 34.32	+ 1 46.3	2.067	2.951	10.2	21.2
2 21	11 28.12	+ 2 22.6	2.011	2.958	6.6	21.0
3 2	11 20.59	+ 3 8.0	1.981	2.965	2.7	20.7
3 12	11 12.52	+ 3 57.4	1.981	2.973	1.4	20.6
3 22	11 4.79	+ 4 45.3	2.009	2.980	5.3	20.9
4 1	10 58.19	+ 5 26.7	2.066	2.986	9.0	21.2
4 11	10 53.35	+ 5 57.8	2.147	2.993	12.1	21.4

155829 2000 XV_{21} 3 8.3 121°.49 2°.9/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.95	+12 13.7	2.210	3.024	12.3	20.1
2 11	11 37.46	+12 52.0	2.142	3.039	9.3	19.9
2 21	11 30.04	+13 34.4	2.100	3.053	6.0	19.7
3 2	11 21.30	+14 15.3	2.086	3.067	3.2	19.6
3 12	11 12.13	+14 49.2	2.101	3.080	3.9	19.6
3 22	11 3.40	+15 11.7	2.146	3.092	7.0	19.8
4 1	10 55.93	+15 20.2	2.218	3.105	10.1	20.0
4 11	10 50.32	+15 14.2	2.314	3.117	12.8	20.2

127186 2002 GX_{171} 3 8.3 243°.26 0°.2/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.07	+ 1 19.7	2.001	2.802	13.9	20.5
2 11	11 34.14	+ 1 48.0	1.912	2.799	10.7	20.3
2 21	11 28.14	+ 2 30.5	1.847	2.796	7.0	20.1
3 2	11 20.65	+ 3 23.6	1.808	2.793	2.9	19.8
3 12	11 12.49	+ 4 21.5	1.798	2.790	1.5	19.7
3 22	11 4.60	+ 5 17.9	1.816	2.786	5.8	20.0
4 1	10 57.88	+ 6 6.9	1.862	2.783	9.7	20.2
4 11	10 53.04	+ 6 43.9	1.931	2.780	13.2	20.4

495340 2014 NX_{11} 3 8.3 252°.36 1°.8/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.41	+ 5 57.2	1.632	2.451	15.7	22.5
2 11	11 38.11	+ 6 39.4	1.536	2.435	12.1	22.2
2 21	11 31.09	+ 7 36.1	1.463	2.419	7.7	21.9
3 2	11 21.93	+ 8 41.6	1.416	2.402	3.1	21.6
3 12	11 11.70	+ 9 47.5	1.397	2.385	3.2	21.5
3 22	11 1.65	+10 45.3	1.405	2.367	8.1	21.8
4 1	10 53.08	+11 27.9	1.438	2.349	12.8	22.0
4 11	10 46.94	+11 51.3	1.494	2.331	17.0	22.2

388058 2005 TP_{53} 3 8.3 244°.48 2°.8/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.97	− 7 50.6	2.861	3.604	11.5	21.5
2 11	11 32.03	− 7 39.1	2.747	3.590	9.4	21.3
2 21	11 26.58	− 7 12.7	2.657	3.575	6.9	21.1
3 2	11 20.00	− 6 32.4	2.594	3.559	4.2	20.9
3 12	11 12.89	− 5 41.0	2.560	3.543	2.8	20.8
3 22	11 5.88	− 4 42.3	2.557	3.527	4.3	20.9
4 1	10 59.61	− 3 41.2	2.582	3.510	7.1	21.0
4 11	10 54.63	− 2 42.6	2.635	3.493	9.8	21.2

31569 1999 FL_{18} 3 8.3 128°.71 1°.3/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.82	− 0 3.5	1.687	2.481	16.4	18.2
2 11	11 39.53	− 0 1.1	1.611	2.492	12.8	18.0
2 21	11 31.71	+ 0 17.1	1.557	2.502	8.5	17.7
3 2	11 22.07	+ 0 48.0	1.529	2.511	3.9	17.5
3 12	11 11.72	+ 1 26.5	1.528	2.520	1.9	17.4
3 22	11 1.84	+ 2 6.2	1.556	2.529	6.3	17.7
4 1	10 53.56	+ 2 40.9	1.611	2.537	10.7	17.9
4 11	10 47.64	+ 3 6.0	1.689	2.544	14.5	18.2

472662 2015 DM_{222} 3 8.3 335°.57 0°.8/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.31	− 0 36.4	1.997	2.796	14.0	20.9
2 11	11 32.06	− 0 7.3	1.907	2.791	10.9	20.7
2 21	11 26.83	+ 0 37.8	1.839	2.786	7.2	20.5
3 2	11 20.15	+ 1 35.6	1.798	2.781	3.2	20.2
3 12	11 12.82	+ 2 40.4	1.785	2.777	1.5	20.1
3 22	11 5.74	+ 3 45.6	1.801	2.773	5.5	20.3
4 1	10 59.78	+ 4 44.7	1.843	2.770	9.5	20.6
4 11	10 55.61	+ 5 32.4	1.909	2.766	13.0	20.8

208425 Zehavi 3 8.3 54°.75 5°.7/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.75	+20 14.2	2.174	3.007	11.8	20.4
2 11	11 34.48	+21 22.9	2.111	3.011	9.2	20.2
2 21	11 28.25	+22 30.8	2.073	3.016	6.8	20.1
3 2	11 20.65	+23 30.4	2.061	3.021	5.7	20.0
3 12	11 12.56	+24 15.0	2.078	3.026	6.9	20.1
3 22	11 4.87	+24 40.3	2.122	3.031	9.2	20.3
4 1	10 58.40	+24 44.4	2.190	3.036	11.9	20.4
4 11	10 53.78	+24 28.3	2.280	3.041	14.2	20.6

263368 2008 CE_{160} 3 8.3 60°.04 0°.6/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.14	− 0 18.2	1.656	2.463	16.1	21.3
2 11	11 34.54	+ 0 17.1	1.578	2.467	12.5	21.1
2 21	11 28.57	+ 1 11.0	1.522	2.471	8.2	20.8
3 2	11 20.86	+ 2 19.2	1.490	2.475	3.5	20.6
3 12	11 12.43	+ 3 34.4	1.487	2.479	1.7	20.4
3 22	11 4.39	+ 4 48.1	1.510	2.483	6.4	20.8
4 1	10 57.78	+ 5 52.5	1.560	2.487	10.9	21.0
4 11	10 53.37	+ 6 41.8	1.632	2.491	14.7	21.3

267478 2002 GB_{24} 3 8.3 34°.39 6°.1/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 44.59	+20 16.1	1.801	2.632	14.0	19.9
2 11	11 39.27	+20 59.8	1.735	2.635	10.9	19.7
2 21	11 31.47	+21 41.5	1.693	2.639	7.9	19.5
3 2	11 21.95	+22 13.2	1.677	2.642	6.2	19.4
3 12	11 11.83	+22 27.9	1.689	2.646	7.2	19.5
3 22	11 2.28	+22 21.6	1.727	2.650	10.1	19.7
4 1	10 54.37	+21 53.6	1.790	2.655	13.2	19.9
4 11	10 48.81	+21 6.0	1.874	2.659	16.0	20.1

228390 2000 YW_{112} 3 8.3 43°.50 5°.7/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.27	+16 15.8	1.707	2.549	14.1	19.2
2 11	11 34.56	+17 39.6	1.648	2.557	10.7	19.0
2 21	11 28.49	+19 6.7	1.614	2.567	7.5	18.8
3 2	11 20.79	+20 27.5	1.606	2.576	5.7	18.7
3 12	11 12.51	+21 32.8	1.625	2.586	7.1	18.8
3 22	11 4.73	+22 16.1	1.669	2.596	10.1	19.0
4 1	10 58.45	+22 34.7	1.738	2.606	13.4	19.3
4 11	10 54.37	+22 29.1	1.827	2.616	16.2	19.5

219739 2001 XY_{190} 3 8.3 88°.96 1°.6/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.78	+ 6 0.1	1.862	2.679	14.2	20.3
2 11	11 35.42	+ 6 46.9	1.795	2.692	10.7	20.1
2 21	11 28.92	+ 7 44.8	1.751	2.706	6.7	19.9
3 2	11 20.94	+ 8 47.9	1.734	2.720	2.7	19.7
3 12	11 12.43	+ 9 48.9	1.746	2.734	2.8	19.7
3 22	11 4.37	+10 41.3	1.786	2.747	6.8	20.0
4 1	10 57.69	+11 20.2	1.852	2.760	10.6	20.2
4 11	10 53.02	+11 42.8	1.941	2.774	13.8	20.4

88801 2001 SN_{122} 3 8.3 193°.35 2°.0/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.04	− 3 25.7	2.089	2.865	14.2	20.2
2 11	11 35.58	− 3 13.6	1.997	2.864	11.3	20.0
2 21	11 29.07	− 2 45.2	1.927	2.862	7.8	19.8
3 2	11 21.04	− 2 2.4	1.883	2.860	4.0	19.5
3 12	11 12.34	− 1 9.6	1.868	2.858	2.1	19.4
3 22	11 3.89	− 0 12.7	1.882	2.855	5.3	19.6
4 1	10 56.59	+ 0 42.4	1.924	2.851	9.1	19.8
4 11	10 51.14	+ 1 29.9	1.991	2.848	12.5	20.0

39929 1998 FZ_{71} 3 8.3 266°.78 0°.6/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.22	+ 1 9.0	1.734	2.537	15.6	19.3
2 11	11 37.07	+ 1 25.0	1.633	2.520	12.2	19.0
2 21	11 30.37	+ 1 57.2	1.553	2.502	8.1	18.7
3 2	11 21.67	+ 2 42.4	1.499	2.483	3.4	18.4
3 12	11 11.93	+ 3 34.9	1.473	2.465	1.7	18.2
3 22	11 2.33	+ 4 27.7	1.474	2.446	6.7	18.5
4 1	10 54.05	+ 5 13.6	1.502	2.427	11.4	18.7
4 11	10 48.03	+ 5 47.2	1.553	2.407	15.6	18.9

341678 2007 VS_{92} 3 8.3 84°.06 4°.2/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.13	+17 45.2	2.264	3.081	12.0	20.8
2 11	11 39.03	+18 12.5	2.204	3.099	9.1	20.7
2 21	11 30.99	+18 38.9	2.169	3.116	6.3	20.5
3 2	11 21.69	+18 58.9	2.162	3.134	4.3	20.4
3 12	11 12.03	+19 7.6	2.185	3.151	5.1	20.5
3 22	11 2.92	+19 2.3	2.237	3.168	7.6	20.7
4 1	10 55.15	+18 42.1	2.315	3.185	10.4	20.9
4 11	10 49.29	+18 7.7	2.417	3.202	12.9	21.1

379312 2009 WY_{4} 3 8.3 230°.96 2°.9/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.66	+11 23.5	2.215	3.031	12.2	21.5
2 11	11 36.76	+12 6.2	2.123	3.020	9.3	21.3
2 21	11 29.80	+12 55.2	2.055	3.009	6.0	21.0
3 2	11 21.33	+13 44.7	2.016	2.997	3.2	20.8
3 12	11 12.18	+14 28.7	2.006	2.985	3.9	20.8
3 22	11 3.25	+15 1.8	2.025	2.972	7.2	21.0
4 1	10 55.45	+15 20.4	2.071	2.959	10.6	21.2
4 11	10 49.48	+15 23.0	2.140	2.945	13.6	21.4

518638 2008 JP_{14} 3 8.3 211°.12 3°.2/ 5.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 49.88	+ 9 35.0	2.179	2.975	13.1	24.1
2 11	11 43.19	+10 59.1	2.077	2.964	10.0	23.9
2 21	11 34.08	+12 34.3	2.001	2.951	6.5	23.6
3 2	11 23.08	+14 13.1	1.955	2.936	3.5	23.4
3 12	11 11.13	+15 46.7	1.942	2.918	4.5	23.5
3 22	10 59.30	+17 6.9	1.961	2.899	8.1	23.6
4 1	10 48.70	+18 7.8	2.008	2.877	11.8	23.8
4 11	10 40.18	+18 47.2	2.079	2.853	15.0	24.0

301661 2010 ES_{130} 3 8.3 321°.85 2°.0/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.32	− 3 43.3	1.377	2.185	18.7	20.4
2 11	11 34.49	− 3 14.7	1.294	2.181	14.8	20.2
2 21	11 28.86	− 2 20.1	1.231	2.177	10.1	19.9
3 2	11 21.08	− 1 2.6	1.191	2.173	5.0	19.6
3 12	11 12.31	+ 0 29.9	1.177	2.169	2.3	19.4
3 22	11 3.89	+ 2 6.4	1.189	2.165	7.1	19.7
4 1	10 57.12	+ 3 35.6	1.226	2.162	12.3	20.0
4 11	10 52.94	+ 4 48.4	1.283	2.159	16.8	20.2

366961 2005 WP_{53} 3 8.3 149°.71 3°.5/ 4.3 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.59	+13 41.9	2.387	3.203	11.5	22.7
2 11	11 36.39	+14 39.6	2.317	3.214	8.6	22.6
2 21	11 29.38	+15 40.8	2.272	3.223	5.7	22.4
3 2	11 21.11	+16 39.7	2.256	3.232	3.6	22.3
3 12	11 12.37	+17 30.1	2.270	3.241	4.5	22.3
3 22	11 4.00	+18 7.4	2.313	3.248	7.2	22.5
4 1	10 56.76	+18 28.9	2.384	3.255	10.1	22.7
4 11	10 51.24	+18 33.9	2.477	3.262	12.6	22.9

323117 2003 AF_{32} 3 8.3 95°.86 0°.2/ 8.1 18

2 1	11 41.97	+ 2 58.1	1.836	2.640	14.9	21.3
2 11	11 37.07	+ 3 27.0	1.769	2.658	11.3	21.1
2 21	11 29.97	+ 4 8.8	1.725	2.676	7.2	20.9
3 2	11 21.37	+ 4 59.0	1.708	2.694	2.8	20.6
3 12	11 12.24	+ 5 51.1	1.720	2.711	1.8	20.6
3 22	11 3.62	+ 6 38.7	1.760	2.728	6.2	20.9
4 1	10 56.43	+ 7 16.6	1.827	2.745	10.1	21.2
4 11	10 51.34	+ 7 41.4	1.918	2.761	13.5	21.4

426703 2013 TM_{32} 3 8.3 113°.72 4°.7/13.7 18

2 1	11 36.34	−12 44.9	2.094	2.830	15.5	21.3
2 11	11 32.78	−12 32.8	2.004	2.835	12.8	21.1
2 21	11 27.26	−11 57.4	1.934	2.839	9.8	20.9
3 2	11 20.34	−10 59.4	1.890	2.843	6.7	20.8
3 12	11 12.81	− 9 42.4	1.872	2.847	4.7	20.6
3 22	11 5.56	− 8 12.7	1.883	2.851	5.8	20.7
4 1	10 59.43	− 6 38.4	1.921	2.855	8.7	20.9
4 11	10 55.08	− 5 7.6	1.985	2.859	11.8	21.1

208195 2000 QT_{228} 3 8.3 215°.92 1°.3/ 6.9 18

2 1	11 44.13	+ 9 29.0	2.861	3.655	10.3	21.4
2 11	11 38.09	+ 9 33.4	2.763	3.648	7.9	21.2
2 21	11 30.39	+ 9 41.6	2.691	3.641	5.0	21.0
3 2	11 21.52	+ 9 50.5	2.648	3.633	2.1	20.8
3 12	11 12.13	+ 9 57.0	2.638	3.625	2.1	20.8
3 22	11 2.97	+ 9 58.2	2.659	3.616	5.1	20.9
4 1	10 54.72	+ 9 52.0	2.709	3.607	8.1	21.1
4 11	10 47.95	+ 9 37.2	2.786	3.597	10.7	21.3

133163 2003 QT_{32} 3 8.3 207°.49 5°.8/ 3.5 18

2 1	11 51.95	+20 59.1	2.113	2.922	13.0	20.0
2 11	11 44.68	+21 37.9	2.029	2.916	10.2	19.8
2 21	11 34.92	+22 14.3	1.970	2.909	7.4	19.6
3 2	11 23.36	+22 40.7	1.939	2.901	5.8	19.5
3 12	11 11.07	+22 50.8	1.938	2.892	6.7	19.5
3 22	10 59.23	+22 40.7	1.966	2.882	9.5	19.7
4 1	10 48.92	+22 9.8	2.021	2.872	12.5	19.9
4 11	10 40.94	+21 20.2	2.099	2.861	15.3	20.0

470880 2009 BC_{45} 3 8.3 333°.38 0°.3/ 8.6 17

2 1	11 37.17	+ 2 2.8	2.059	2.863	13.5	21.3
2 11	11 33.42	+ 2 19.4	1.969	2.857	10.4	21.1
2 21	11 27.70	+ 2 48.4	1.903	2.852	6.8	20.9
3 2	11 20.53	+ 3 26.7	1.863	2.848	2.8	20.6
3 12	11 12.72	+ 4 9.4	1.851	2.843	1.5	20.5
3 22	11 5.16	+ 4 50.9	1.868	2.839	5.6	20.8
4 1	10 58.72	+ 5 26.1	1.912	2.835	9.4	21.0
4 11	10 54.07	+ 5 51.1	1.980	2.832	12.8	21.2

117775 2005 GX_{101} 3 8.3 189°.03 2°.4/ 5.9 18

2 1	11 42.68	+ 9 24.6	2.165	2.976	12.7	20.4
2 11	11 37.50	+10 9.6	2.080	2.975	9.6	20.2
2 21	11 30.25	+11 2.3	2.020	2.974	6.1	20.0
3 2	11 21.52	+11 57.0	1.988	2.972	2.9	19.8
3 12	11 12.15	+12 47.4	1.986	2.969	3.4	19.8
3 22	11 3.09	+13 28.1	2.013	2.965	6.9	20.0
4 1	10 55.22	+13 54.9	2.068	2.961	10.4	20.2
4 11	10 49.24	+14 6.1	2.146	2.956	13.4	20.4

30947 1994 JW 3 8.3 50°.43 8°.7/29.7 18

2 1	11 43.14	+24 45.7	1.604	2.444	14.9	17.3
2 11	11 38.43	+26 8.4	1.558	2.457	12.0	17.1
2 21	11 31.03	+27 24.8	1.535	2.470	9.5	17.0
3 2	11 21.81	+28 24.0	1.537	2.483	8.7	17.0
3 12	11 12.05	+28 57.5	1.565	2.496	10.0	17.1
3 22	11 3.03	+29 1.4	1.616	2.510	12.6	17.3
4 1	10 55.87	+28 36.2	1.690	2.524	15.3	17.5
4 11	10 51.26	+27 45.8	1.782	2.538	17.8	17.7

57026 2000 UD_{55} 3 8.3 227°.63 6°.2/27.9 18

2 1	11 40.01	+27 29.6	2.985	3.799	9.4	19.8
2 11	11 35.11	+28 38.7	2.909	3.788	7.8	19.7
2 21	11 28.55	+29 43.3	2.860	3.776	6.5	19.6
3 2	11 20.82	+30 37.4	2.839	3.764	6.2	19.5
3 12	11 12.59	+31 15.9	2.846	3.751	7.2	19.6
3 22	11 4.58	+31 35.6	2.881	3.738	8.9	19.7
4 1	10 57.51	+31 35.4	2.940	3.725	10.7	19.8
4 11	10 51.92	+31 16.4	3.020	3.711	12.4	19.9

213340 2001 SU_{219} 3 8.3 209°.55 0°.3/ 8.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.34	+ 2 59.5	2.153	2.951	13.2	21.8
2 11	11 35.78	+ 3 32.0	2.059	2.945	10.1	21.6
2 21	11 29.20	+ 4 16.9	1.990	2.940	6.5	21.3
3 2	11 21.14	+ 5 10.4	1.948	2.933	2.5	21.1
3 12	11 12.40	+ 6 6.7	1.935	2.927	1.7	21.0
3 22	11 3.90	+ 6 59.9	1.952	2.919	5.8	21.2
4 1	10 56.50	+ 7 44.8	1.997	2.911	9.6	21.5
4 11	10 50.92	+ 8 17.4	2.066	2.903	12.9	21.6

54518 2000 PH_{28} 3 8.3 78°.12 4°.4/ 2.4 18

2 1	11 35.32	+14 33.3	2.292	3.124	11.3	18.4
2 11	11 31.82	+16 12.6	2.224	3.129	8.6	18.2
2 21	11 26.56	+17 56.6	2.182	3.134	5.9	18.0
3 2	11 20.06	+19 37.6	2.170	3.140	4.4	18.0
3 12	11 13.05	+21 7.7	2.186	3.145	5.7	18.0
3 22	11 6.32	+22 20.7	2.231	3.151	8.3	18.2
4 1	11 0.64	+23 13.0	2.302	3.156	11.0	18.4
4 11	10 56.57	+23 43.5	2.395	3.162	13.5	18.6

418290 2008 EN_{161} 3 8.3 177°.52 0°.4/ 8.7 18

2 1	11 39.73	+ 0 24.6	2.143	2.933	13.5	21.9
2 11	11 35.27	+ 1 0.8	2.055	2.935	10.4	21.7
2 21	11 28.84	+ 1 51.4	1.990	2.936	6.8	21.4
3 2	11 20.98	+ 2 52.8	1.953	2.937	2.8	21.2
3 12	11 12.52	+ 3 59.2	1.945	2.937	1.4	21.1
3 22	11 4.33	+ 5 4.2	1.967	2.937	5.5	21.4
4 1	10 57.27	+ 6 2.0	2.018	2.936	9.3	21.6
4 11	10 51.99	+ 6 47.9	2.092	2.935	12.6	21.8

258984 2002 TE_{18} 3 8.3 260°.16 4°.2/ 5.2 17

2 1	11 47.06	+14 49.1	1.770	2.593	14.5	20.5
2 11	11 41.44	+15 15.7	1.681	2.580	11.2	20.3
2 21	11 33.12	+15 45.4	1.615	2.567	7.5	20.0
3 2	11 22.76	+16 11.3	1.576	2.554	4.5	19.8
3 12	11 11.47	+16 26.3	1.565	2.541	5.4	19.8
3 22	11 0.53	+16 25.3	1.582	2.528	9.0	20.0
4 1	10 51.16	+16 5.9	1.625	2.514	13.0	20.2
4 11	10 44.25	+15 28.6	1.690	2.500	16.5	20.4

32580 Avbalasingam 3 8.3 133°.71 0°.9/ 9.2 18

2 1	11 40.66	− 1 51.2	1.618	2.416	16.8	19.8
2 11	11 36.52	− 1 7.2	1.542	2.425	13.1	19.5
2 21	11 29.88	− 0 2.1	1.487	2.433	8.7	19.3
3 2	11 21.44	+ 1 19.5	1.458	2.441	3.8	19.0
3 12	11 12.26	+ 2 49.4	1.457	2.449	1.7	18.9
3 22	11 3.53	+ 4 18.1	1.484	2.456	6.5	19.2
4 1	10 56.33	+ 5 36.8	1.537	2.463	11.1	19.5
4 11	10 51.45	+ 6 39.1	1.613	2.469	15.0	19.7

400333 2007 UO_{33} 3 8.3 135°.04 4°.7/13.3 18

2 1	11 42.51	−11 56.1	2.124	2.852	15.5	21.8
2 11	11 37.35	−11 58.5	2.042	2.868	12.8	21.6
2 21	11 30.15	−11 39.5	1.981	2.884	9.7	21.4
3 2	11 21.48	−10 59.6	1.946	2.898	6.6	21.3
3 12	11 12.25	−10 1.9	1.938	2.912	4.7	21.2
3 22	11 3.38	− 8 52.1	1.960	2.925	5.9	21.3
4 1	10 55.76	− 7 37.4	2.009	2.937	8.8	21.5
4 11	10 50.06	− 6 24.9	2.085	2.948	11.8	21.7

267767 2003 RJ_{10} 3 8.3 248°.57 0°.4/ 7.9 17

2 1	11 36.93	+ 2 5.6	2.189	2.990	12.9	21.0
2 11	11 33.21	+ 2 55.9	2.090	2.978	9.9	20.8
2 21	11 27.57	+ 4 0.7	2.016	2.967	6.4	20.6
3 2	11 20.51	+ 5 15.7	1.969	2.955	2.5	20.3
3 12	11 12.78	+ 6 34.4	1.952	2.942	1.8	20.2
3 22	11 5.22	+ 7 50.2	1.964	2.930	5.8	20.5
4 1	10 58.67	+ 8 56.6	2.003	2.917	9.6	20.7
4 11	10 53.82	+ 9 49.1	2.067	2.904	12.9	20.9

233688 2008 RC_{136} 3 8.3 336°.58 1°.8/10.0 17

2 1	11 38.22	− 2 22.0	1.900	2.690	15.0	20.6
2 11	11 34.40	− 2 12.8	1.812	2.688	11.8	20.4
2 21	11 28.42	− 1 46.8	1.746	2.687	8.1	20.1
3 2	11 20.86	− 1 6.4	1.706	2.685	4.0	19.9
3 12	11 12.59	− 0 16.3	1.693	2.684	2.0	19.7
3 22	11 4.61	+ 0 37.3	1.709	2.683	5.6	20.0
4 1	10 57.87	+ 1 28.0	1.751	2.682	9.6	20.2
4 11	10 53.08	+ 2 10.1	1.817	2.681	13.2	20.4

413323 2003 WL_{15} 3 8.3 204°.82 2°.6/11.0 17

2 1	11 41.15	− 6 3.7	2.248	3.005	13.9	22.4
2 11	11 36.37	− 5 46.7	2.146	2.999	11.2	22.2
2 21	11 29.59	− 5 12.0	2.066	2.993	7.9	22.0
3 2	11 21.31	− 4 21.0	2.013	2.985	4.5	21.8
3 12	11 12.32	− 3 17.8	1.989	2.976	2.6	21.6
3 22	11 3.51	− 2 7.9	1.995	2.967	5.2	21.8
4 1	10 55.75	− 0 58.0	2.030	2.957	8.8	22.0
4 11	10 49.76	+ 0 5.7	2.091	2.946	12.1	22.2

425939 2011 GU_{67} 3 8.3 314°.78 8°.5/29.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.38	+24 41.3	1.727	2.566	14.1	20.5
2 11	11 37.26	+25 59.5	1.654	2.553	11.4	20.3
2 21	11 30.48	+27 14.3	1.605	2.539	9.2	20.2
3 2	11 21.72	+28 15.1	1.580	2.526	8.5	20.1
3 12	11 12.10	+28 52.6	1.581	2.513	9.9	20.1
3 22	11 2.91	+29 1.3	1.606	2.500	12.6	20.3
4 1	10 55.32	+28 40.1	1.654	2.488	15.6	20.4
4 11	10 50.19	+27 51.8	1.720	2.477	18.3	20.6

496953 2002 AU_{12} 3 8.3 29°.23 5°.6/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.99	− 7 54.8	1.553	2.327	18.5	20.6
2 11	11 37.68	− 8 48.7	1.479	2.336	15.1	20.4
2 21	11 30.72	− 9 22.1	1.425	2.345	11.3	20.2
3 2	11 21.80	− 9 33.3	1.394	2.355	7.6	20.0
3 12	11 12.06	− 9 24.3	1.388	2.366	5.6	19.9
3 22	11 2.78	− 8 59.5	1.409	2.378	7.3	20.1
4 1	10 55.12	− 8 25.9	1.455	2.390	10.9	20.3
4 11	10 49.94	− 7 51.4	1.523	2.402	14.5	20.5

36290 2000 FM_{30} 3 8.3 128°.77 0°.9/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.90	+ 3 50.9	2.261	3.058	12.6	19.5
2 11	11 35.91	+ 4 44.3	2.190	3.077	9.6	19.4
2 21	11 29.10	+ 5 48.7	2.143	3.094	6.0	19.2
3 2	11 21.04	+ 6 59.3	2.125	3.111	2.3	19.0
3 12	11 12.54	+ 8 9.7	2.138	3.127	2.0	19.0
3 22	11 4.42	+ 9 13.9	2.180	3.143	5.7	19.2
4 1	10 57.46	+10 7.0	2.251	3.157	9.1	19.5
4 11	10 52.21	+10 46.1	2.347	3.171	12.0	19.7

331801 2003 QJ_{107} 3 8.3 223°.04 3°.8/ 4.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.53	+12 45.4	2.034	2.853	13.1	21.5
2 11	11 38.43	+13 45.1	1.943	2.841	10.0	21.3
2 21	11 31.03	+14 51.5	1.877	2.830	6.6	21.0
3 2	11 21.92	+15 57.5	1.839	2.817	4.0	20.8
3 12	11 11.99	+16 55.6	1.830	2.804	5.0	20.9
3 22	11 2.31	+17 39.1	1.850	2.789	8.4	21.0
4 1	10 53.89	+18 4.1	1.896	2.774	11.9	21.2
4 11	10 47.52	+18 9.3	1.964	2.759	15.1	21.4

107394 2001 CJ_{49} 3 8.3 266°.90 1°.9/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.15	+ 6 42.5	1.798	2.615	14.6	19.8
2 11	11 36.98	+ 7 24.9	1.697	2.595	11.2	19.5
2 21	11 30.32	+ 8 20.2	1.619	2.574	7.2	19.2
3 2	11 21.71	+ 9 22.9	1.567	2.553	3.0	18.9
3 12	11 12.09	+10 25.3	1.544	2.531	3.2	18.9
3 22	11 2.60	+11 19.8	1.549	2.509	7.7	19.1
4 1	10 54.39	+12 0.1	1.579	2.487	12.1	19.3
4 11	10 48.37	+12 22.3	1.632	2.464	16.0	19.5

153999 2002 AC_{183} 3 8.3 95°.15 2°.1/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 46.00	+ 9 46.1	1.949	2.760	13.9	19.5
2 11	11 39.98	+10 3.2	1.885	2.779	10.5	19.4
2 21	11 31.78	+10 26.1	1.844	2.798	6.6	19.2
3 2	11 22.10	+10 49.7	1.832	2.816	2.9	19.0
3 12	11 11.96	+11 8.8	1.848	2.834	3.1	19.0
3 22	11 2.40	+11 19.0	1.894	2.852	6.8	19.3
4 1	10 54.33	+11 17.8	1.967	2.869	10.4	19.5
4 11	10 48.38	+11 4.2	2.063	2.886	13.5	19.8

497711 2006 SE_{106} 3 8.3 190°.66 0°.7/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.86	+ 5 5.7	2.631	3.431	11.0	22.3
2 11	11 33.50	+ 5 33.5	2.542	3.430	8.4	22.1
2 21	11 27.54	+ 6 9.7	2.477	3.429	5.3	21.9
3 2	11 20.45	+ 6 50.7	2.441	3.427	2.0	21.7
3 12	11 12.88	+ 7 32.2	2.436	3.425	1.7	21.6
3 22	11 5.54	+ 8 10.1	2.460	3.424	5.0	21.8
4 1	10 59.09	+ 8 40.5	2.512	3.421	8.1	22.0
4 11	10 54.08	+ 9 0.8	2.590	3.419	10.9	22.2

87881 2000 SC_{277} 3 8.3 130°.09 5°.5/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.30	+21 9.6	2.291	3.109	11.8	20.2
2 11	11 39.27	+22 3.2	2.232	3.123	9.2	20.0
2 21	11 31.24	+22 54.2	2.198	3.137	6.8	19.9
3 2	11 21.88	+23 35.7	2.192	3.150	5.5	19.8
3 12	11 12.10	+24 2.1	2.215	3.162	6.5	19.9
3 22	11 2.83	+24 10.1	2.267	3.174	8.8	20.1
4 1	10 54.91	+23 58.7	2.344	3.186	11.3	20.3
4 11	10 48.92	+23 29.6	2.443	3.197	13.6	20.4

277512 2005 WQ_{179} 3 8.3 130°.00 0°.4/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.74	+ 4 40.1	2.013	2.815	13.8	21.0
2 11	11 37.60	+ 4 53.9	1.934	2.822	10.5	20.8
2 21	11 30.34	+ 5 17.7	1.879	2.830	6.8	20.5
3 2	11 21.58	+ 5 47.8	1.851	2.837	2.6	20.3
3 12	11 12.24	+ 6 19.0	1.852	2.843	1.8	20.2
3 22	11 3.28	+ 6 46.5	1.883	2.850	5.9	20.5
4 1	10 55.63	+ 7 6.0	1.940	2.856	9.8	20.8
4 11	10 49.95	+ 7 14.7	2.022	2.862	13.1	21.0

204346 2004 RR_{339} 3 8.3 140°.36 1°.3/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 44.47	+ 5 45.3	1.794	2.603	15.0	21.5
2 11	11 39.13	+ 6 21.9	1.721	2.614	11.4	21.3
2 21	11 31.42	+ 7 9.9	1.671	2.624	7.2	21.0
3 2	11 22.02	+ 8 3.8	1.649	2.634	2.8	20.8
3 12	11 11.99	+ 8 56.5	1.655	2.644	2.6	20.8
3 22	11 2.44	+ 9 41.5	1.690	2.652	7.0	21.1
4 1	10 54.39	+10 13.6	1.751	2.660	11.0	21.3
4 11	10 48.59	+10 30.2	1.836	2.668	14.5	21.6

494654 1995 ST_{28} 3 8.3 186°.32 0°.0/ 8.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.69	+ 2 1.5	2.156	2.948	13.3	23.1
2 11	11 36.77	+ 2 35.6	2.066	2.948	10.3	22.9
2 21	11 29.82	+ 3 22.8	2.000	2.947	6.7	22.7
3 2	11 21.40	+ 4 19.2	1.961	2.946	2.6	22.4
3 12	11 12.33	+ 5 19.2	1.952	2.944	1.6	22.3
3 22	11 3.52	+ 6 16.5	1.973	2.941	5.7	22.6
4 1	10 55.87	+ 7 5.8	2.023	2.937	9.5	22.8
4 11	10 50.05	+ 7 43.0	2.096	2.933	12.8	23.0

452281 2015 TU_{179} 3 8.3 169°.97 4°.4/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 47.25	+13 30.4	1.757	2.578	14.7	21.6
2 11	11 41.42	+14 29.5	1.684	2.583	11.2	21.4
2 21	11 32.98	+15 34.2	1.635	2.587	7.4	21.2
3 2	11 22.67	+16 36.4	1.613	2.590	4.6	21.0
3 12	11 11.62	+17 27.2	1.620	2.593	5.6	21.1
3 22	11 1.07	+18 0.5	1.655	2.595	9.2	21.3
4 1	10 52.16	+18 12.9	1.715	2.595	12.9	21.5
4 11	10 45.68	+18 4.4	1.797	2.595	16.1	21.7

47094 1999 AW_{21} 3 8.3 310°.42 2°.2/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.92	+ 4 40.9	1.437	2.268	16.8	18.5
2 11	11 34.82	+ 5 55.9	1.360	2.266	12.8	18.2
2 21	11 29.02	+ 7 30.0	1.306	2.264	8.1	17.9
3 2	11 21.18	+ 9 15.0	1.276	2.262	3.3	17.6
3 12	11 12.45	+10 59.2	1.273	2.261	3.8	17.7
3 22	11 4.11	+12 31.4	1.297	2.259	8.7	17.9
4 1	10 57.39	+13 42.6	1.345	2.257	13.5	18.2
4 11	10 53.18	+14 28.4	1.414	2.256	17.5	18.4

78720 2002 TJ_{216} 3 8.3 170°.13 3°.8/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.77	+14 9.8	2.419	3.242	11.1	19.8
2 11	11 33.59	+15 19.3	2.344	3.244	8.4	19.6
2 21	11 27.67	+16 32.8	2.294	3.246	5.6	19.4
3 2	11 20.51	+17 44.1	2.273	3.248	3.8	19.3
3 12	11 12.86	+18 46.7	2.282	3.249	4.8	19.4
3 22	11 5.48	+19 35.6	2.320	3.250	7.5	19.5
4 1	10 59.13	+20 7.6	2.384	3.251	10.2	19.7
4 11	10 54.37	+20 21.6	2.470	3.251	12.7	19.9

88095 2000 WZ_{60} 3 8.3 131°.46 3°.5/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.79	+13 38.1	2.380	3.198	11.4	20.2
2 11	11 35.79	+14 41.3	2.315	3.213	8.6	20.0
2 21	11 29.01	+15 48.1	2.275	3.227	5.7	19.9
3 2	11 21.02	+16 52.2	2.265	3.241	3.6	19.8
3 12	11 12.61	+17 47.6	2.284	3.254	4.5	19.9
3 22	11 4.57	+18 29.5	2.333	3.267	7.2	20.0
4 1	10 57.66	+18 55.1	2.408	3.279	10.0	20.2
4 11	10 52.44	+19 3.8	2.507	3.290	12.5	20.4

503337 2016 BA_{26} 3 8.4 351°.86 4°.0/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.81	+10 12.0	1.270	2.121	17.4	20.8
2 11	11 35.06	+11 7.1	1.200	2.116	13.2	20.5
2 21	11 29.32	+12 14.4	1.151	2.112	8.5	20.2
3 2	11 21.34	+13 24.5	1.125	2.109	4.4	20.0
3 12	11 12.40	+14 26.4	1.125	2.107	5.6	20.0
3 22	11 3.95	+15 10.6	1.148	2.105	10.2	20.3
4 1	10 57.36	+15 31.2	1.194	2.105	14.9	20.5
4 11	10 53.55	+15 26.8	1.259	2.105	19.0	20.8

407877 2012 BT_{93} 3 8.4 75°.33 1°.7/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.19	+ 5 31.4	1.498	2.322	16.7	21.1
2 11	11 37.67	+ 6 21.3	1.441	2.342	12.6	20.9
2 21	11 30.56	+ 7 24.7	1.407	2.363	7.9	20.7
3 2	11 21.69	+ 8 34.4	1.398	2.384	3.1	20.4
3 12	11 12.25	+ 9 41.2	1.416	2.404	3.1	20.5
3 22	11 3.48	+10 37.1	1.461	2.425	7.7	20.8
4 1	10 56.47	+11 16.4	1.532	2.445	12.0	21.1
4 11	10 51.90	+11 36.6	1.624	2.465	15.7	21.4

306654 2000 SL_{149} 3 8.4 137°.38 0°.0/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.80	+ 1 33.1	1.907	2.703	14.7	21.9
2 11	11 37.74	+ 2 8.9	1.832	2.716	11.3	21.7
2 21	11 30.47	+ 2 59.2	1.780	2.728	7.3	21.5
3 2	11 21.66	+ 3 59.5	1.755	2.740	2.9	21.2
3 12	11 12.25	+ 5 3.3	1.760	2.751	1.6	21.1
3 22	11 3.27	+ 6 3.6	1.793	2.762	6.0	21.4
4 1	10 55.67	+ 6 54.5	1.854	2.771	10.0	21.7
4 11	10 50.12	+ 7 32.0	1.939	2.780	13.5	21.9

354070 2001 UQ_{53} 3 8.4 81°.67 5°.2/ 4.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 45.36	+14 29.9	1.405	2.244	16.7	20.8
2 11	11 40.41	+15 24.7	1.346	2.254	12.7	20.6
2 21	11 32.49	+16 24.3	1.310	2.265	8.5	20.3
3 2	11 22.50	+17 18.8	1.298	2.275	5.4	20.2
3 12	11 11.79	+17 58.7	1.312	2.286	6.6	20.3
3 22	11 1.81	+18 17.5	1.352	2.296	10.4	20.5
4 1	10 53.83	+18 12.7	1.416	2.306	14.4	20.8
4 11	10 48.65	+17 45.6	1.499	2.316	17.9	21.0

428298 2007 EY_{192} 3 8.4 354°.20 8°.4/15.8 17

2 1	11 36.31	−16 50.5	1.611	2.346	19.4	20.3
2 11	11 33.51	−17 34.8	1.524	2.342	16.8	20.1
2 21	11 28.16	−17 51.1	1.454	2.340	13.7	19.8
3 2	11 20.87	−17 36.1	1.405	2.338	10.6	19.7
3 12	11 12.64	−16 50.2	1.380	2.336	8.6	19.5
3 22	11 4.68	−15 38.7	1.379	2.336	8.9	19.5
4 1	10 58.15	−14 10.5	1.403	2.336	11.3	19.7
4 11	10 53.96	−12 37.0	1.449	2.336	14.5	19.9

406405 2007 TJ_{109} 3 8.4 202°.80 2°.0/10.3 17

2 1	11 41.94	− 3 56.6	2.126	2.895	14.3	23.0
2 11	11 37.08	− 3 37.3	2.026	2.890	11.3	22.7
2 21	11 30.11	− 3 0.9	1.950	2.884	7.8	22.5
3 2	11 21.56	− 2 9.2	1.900	2.877	4.1	22.3
3 12	11 12.27	− 1 6.9	1.879	2.869	2.1	22.1
3 22	11 3.17	− 0 0.0	1.889	2.861	5.4	22.3
4 1	10 55.20	+ 1 4.7	1.927	2.852	9.2	22.5
4 11	10 49.11	+ 2 1.3	1.989	2.841	12.7	22.7

347351 2012 QW_{22} 3 8.4 256°.98 1°.3/ 9.8 17

2 1	11 37.23	− 2 21.8	2.264	3.045	13.1	21.3
2 11	11 33.43	− 1 52.6	2.158	3.030	10.3	21.0
2 21	11 27.74	− 1 7.4	2.074	3.014	7.0	20.8
3 2	11 20.63	− 0 8.6	2.018	2.998	3.4	20.5
3 12	11 12.81	+ 0 59.0	1.990	2.982	1.6	20.4
3 22	11 5.12	+ 2 9.5	1.993	2.965	5.1	20.6
4 1	10 58.39	+ 3 16.4	2.023	2.948	8.9	20.8
4 11	10 53.30	+ 4 14.3	2.078	2.931	12.3	21.0

61165 2000 NR_{19} 3 8.4 187°.44 2°.4/ 5.4 17

2 1	11 39.14	+ 8 57.2	2.398	3.210	11.6	19.9
2 11	11 34.66	+10 3.2	2.313	3.209	8.7	19.7
2 21	11 28.39	+11 17.4	2.254	3.208	5.5	19.5
3 2	11 20.83	+12 34.2	2.224	3.207	2.7	19.4
3 12	11 12.72	+13 47.0	2.224	3.204	3.5	19.4
3 22	11 4.86	+14 49.9	2.254	3.201	6.6	19.6
4 1	10 58.00	+15 38.6	2.311	3.198	9.7	19.8
4 11	10 52.75	+16 10.7	2.393	3.194	12.5	20.0

388302 2006 SG_{158} 3 8.4 80°.15 1°.0/ 7.2 17

2 1	11 38.22	+ 6 3.3	2.303	3.111	12.1	21.8
2 11	11 33.92	+ 6 32.5	2.228	3.120	9.1	21.6
2 21	11 27.87	+ 7 10.2	2.176	3.130	5.8	21.4
3 2	11 20.60	+ 7 52.2	2.153	3.139	2.2	21.2
3 12	11 12.88	+ 8 33.4	2.159	3.148	2.1	21.2
3 22	11 5.49	+ 9 9.3	2.194	3.158	5.6	21.5
4 1	10 59.16	+ 9 36.0	2.257	3.167	8.9	21.7
4 11	10 54.47	+ 9 51.0	2.344	3.176	11.8	21.9

308147 2005 AU_{20} 3 8.4 346°.67 3°.2/10.6 18

2 1	11 37.31	− 3 39.2	1.285	2.099	19.5	20.0
2 11	11 34.71	− 3 49.8	1.205	2.093	15.6	19.8
2 21	11 29.17	− 3 37.0	1.143	2.087	11.0	19.5
3 2	11 21.33	− 3 1.9	1.104	2.082	5.9	19.2
3 12	11 12.41	− 2 9.8	1.088	2.078	3.3	19.0
3 22	11 3.85	− 1 9.3	1.098	2.075	7.4	19.2
4 1	10 57.04	− 0 10.1	1.131	2.073	12.5	19.5
4 11	10 52.98	+ 0 38.8	1.184	2.072	17.1	19.8

224460 2005 VU_{37} 3 8.4 268°.18 1°.9/10.0 16

2 1	11 39.19	− 2 23.6	1.860	2.650	15.3	21.2
2 11	11 35.27	− 2 14.8	1.766	2.642	12.1	21.0
2 21	11 29.09	− 1 48.7	1.694	2.634	8.3	20.7
3 2	11 21.20	− 1 7.5	1.647	2.626	4.2	20.5
3 12	11 12.50	− 0 15.9	1.628	2.618	2.1	20.3
3 22	11 4.03	+ 0 39.8	1.636	2.610	5.8	20.5
4 1	10 56.80	+ 1 32.7	1.672	2.602	10.0	20.7
4 11	10 51.60	+ 2 16.9	1.731	2.594	13.8	21.0

88165 2000 XJ_{24} 3 8.4 122°.95 4°.8/13.6 18

2 1	11 42.07	−12 13.5	2.403	3.121	14.2	19.5
2 11	11 36.82	−12 34.7	2.320	3.137	11.8	19.3
2 21	11 29.73	−12 37.9	2.259	3.154	9.0	19.2
3 2	11 21.35	−12 22.7	2.224	3.170	6.4	19.0
3 12	11 12.46	−11 51.2	2.217	3.185	4.9	19.0
3 22	11 3.89	−11 7.2	2.239	3.200	5.7	19.0
4 1	10 56.41	−10 16.3	2.290	3.214	8.1	19.2
4 11	10 50.63	− 9 24.2	2.367	3.227	10.7	19.4

393822 2005 SX_{35} 3 8.4 206°.42 1°.6/ 9.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 43.79	− 2 32.5	1.954	2.730	15.1	22.9
2 11	11 38.71	− 2 11.6	1.855	2.724	11.9	22.6
2 21	11 31.28	− 1 33.0	1.778	2.717	8.1	22.4
3 2	11 22.07	− 0 39.1	1.729	2.708	4.0	22.1
3 12	11 12.01	+ 0 24.9	1.708	2.699	1.9	21.9
3 22	11 2.14	+ 1 32.3	1.717	2.689	5.9	22.2
4 1	10 53.53	+ 2 35.7	1.754	2.677	10.1	22.4
4 11	10 47.00	+ 3 29.2	1.815	2.665	13.9	22.6

187546 2006 UV_{221} 3 8.4 58°.21 6°.0/ 3.8 18

2 1	11 44.57	+17 45.1	1.552	2.390	15.5	20.5
2 11	11 39.57	+18 38.1	1.494	2.400	11.9	20.3
2 21	11 31.84	+19 31.6	1.459	2.410	8.3	20.1
3 2	11 22.23	+20 16.5	1.450	2.421	6.1	20.0
3 12	11 12.00	+20 44.4	1.467	2.431	7.2	20.1
3 22	11 2.47	+20 50.2	1.510	2.442	10.5	20.3
4 1	10 54.78	+20 32.8	1.576	2.453	14.0	20.5
4 11	10 49.68	+19 54.1	1.663	2.465	17.1	20.8

417529 2006 TE_{45} 3 8.4 143°.14 0°.7/ 7.7 16

2 1	11 40.46	+ 3 46.4	1.826	2.636	14.7	21.6
2 11	11 36.14	+ 4 22.8	1.747	2.640	11.2	21.4
2 21	11 29.56	+ 5 12.6	1.691	2.644	7.2	21.2
3 2	11 21.35	+ 6 10.9	1.662	2.648	2.7	20.9
3 12	11 12.48	+ 7 10.8	1.661	2.651	2.1	20.9
3 22	11 3.97	+ 8 5.3	1.688	2.654	6.5	21.2
4 1	10 56.82	+ 8 48.7	1.741	2.657	10.7	21.4
4 11	10 51.76	+ 9 17.1	1.818	2.660	14.2	21.6

468628 2008 OG_{18} 3 8.4 252°.61 1°.8/ 9.9 17

2 1	11 43.51	− 0 53.3	2.188	2.965	13.7	21.8
2 11	11 38.31	− 1 7.5	2.080	2.949	10.8	21.6
2 21	11 30.96	− 1 9.9	1.996	2.934	7.4	21.4
3 2	11 21.95	− 1 1.5	1.939	2.918	3.8	21.1
3 12	11 12.10	− 0 45.2	1.911	2.901	2.0	21.0
3 22	11 2.37	− 0 25.0	1.913	2.885	5.4	21.2
4 1	10 53.71	− 0 5.2	1.943	2.867	9.2	21.3
4 11	10 46.91	+ 0 9.9	1.998	2.850	12.7	21.5

331913 2004 RO_{159} 3 8.4 164°.42 3°.6/12.3 18

2 1	11 40.01	− 8 49.3	2.403	3.144	13.6	21.2
2 11	11 35.32	− 8 53.3	2.310	3.149	11.1	21.0
2 21	11 28.83	− 8 40.3	2.240	3.153	8.2	20.8
3 2	11 21.03	− 8 11.1	2.196	3.157	5.3	20.6
3 12	11 12.66	− 7 28.4	2.180	3.160	3.6	20.5
3 22	11 4.53	− 6 36.5	2.194	3.163	5.1	20.6
4 1	10 57.42	− 5 41.1	2.237	3.165	8.0	20.8
4 11	10 51.93	− 4 47.7	2.305	3.167	10.9	21.0

303451 2005 BX_{4} 3 8.4 56°.10 1°.2/ 7.5 18

2 1	11 42.06	+ 4 52.5	1.351	2.180	17.9	20.7
2 11	11 37.89	+ 5 23.6	1.293	2.196	13.6	20.4
2 21	11 30.88	+ 6 9.6	1.255	2.211	8.6	20.2
3 2	11 21.90	+ 7 4.0	1.241	2.227	3.3	19.9
3 12	11 12.23	+ 7 57.9	1.253	2.244	2.8	19.9
3 22	11 3.26	+ 8 43.2	1.292	2.260	7.9	20.3
4 1	10 56.18	+ 9 13.6	1.355	2.277	12.6	20.6
4 11	10 51.77	+ 9 26.3	1.439	2.294	16.5	20.9

242972 2006 SN_{120} 3 8.4 118°.58 4°.3/ 3.2 18

2 1	11 38.67	+17 8.4	2.486	3.310	10.8	20.6
2 11	11 34.20	+18 6.5	2.419	3.318	8.2	20.4
2 21	11 28.02	+19 5.7	2.377	3.326	5.7	20.2
3 2	11 20.68	+20 0.0	2.364	3.333	4.3	20.2
3 12	11 12.91	+20 43.7	2.380	3.340	5.2	20.2
3 22	11 5.47	+21 12.9	2.425	3.347	7.6	20.4
4 1	10 59.09	+21 25.3	2.495	3.354	10.1	20.6
4 11	10 54.29	+21 20.9	2.588	3.361	12.4	20.7

482445 2012 DG_{36} 3 8.4 155°.39 12°.1/14.4 18

2 1	11 53.89	−16 25.4	1.304	2.031	23.6	21.4
2 11	11 47.89	−18 33.7	1.225	2.036	20.5	21.2
2 21	11 38.04	−20 17.0	1.164	2.040	17.1	21.0
3 2	11 25.01	−21 26.1	1.123	2.044	13.9	20.8
3 12	11 10.32	−21 55.1	1.106	2.047	12.1	20.7
3 22	10 55.91	−21 44.8	1.112	2.050	12.8	20.7
4 1	10 43.73	−21 3.5	1.141	2.052	15.4	20.9
4 11	10 35.14	−20 4.8	1.191	2.054	18.8	21.1

331003 2009 UA_{70} 3 8.4 125°.46 7°.8/29.8 17

2 1	11 44.83	+25 24.2	1.948	2.774	13.2	20.9
2 11	11 39.41	+26 34.9	1.890	2.780	10.7	20.8
2 21	11 31.60	+27 39.8	1.856	2.785	8.5	20.7
3 2	11 22.13	+28 30.1	1.848	2.790	7.8	20.6
3 12	11 12.10	+28 58.5	1.868	2.795	9.0	20.7
3 22	11 2.64	+29 1.3	1.913	2.800	11.3	20.8
4 1	10 54.76	+28 38.4	1.981	2.804	13.8	21.0
4 11	10 49.16	+27 52.7	2.070	2.809	16.1	21.2

264179 2010 ED_{38} 3 8.4 49°.03 3°.7/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.81	+14 1.7	1.995	2.822	13.0	20.5
2 11	11 36.17	+14 40.5	1.927	2.829	9.8	20.3
2 21	11 29.45	+15 22.5	1.883	2.837	6.5	20.1
3 2	11 21.28	+16 1.6	1.866	2.845	3.9	20.0
3 12	11 12.58	+16 31.5	1.878	2.853	4.8	20.1
3 22	11 4.34	+16 47.8	1.917	2.861	7.8	20.3
4 1	10 57.43	+16 47.9	1.983	2.869	11.1	20.5
4 11	10 52.48	+16 31.6	2.070	2.878	14.0	20.7

205439 2001 MQ_{29} 3 8.4 136°.97 2°.2/ 5.1 17

2 1	11 37.50	+10 29.6	3.050	3.858	9.4	20.9
2 11	11 32.96	+11 30.4	2.979	3.873	7.1	20.7
2 21	11 27.08	+12 35.8	2.935	3.888	4.5	20.6
3 2	11 20.28	+13 41.3	2.921	3.902	2.4	20.4
3 12	11 13.15	+14 42.2	2.938	3.915	3.0	20.5
3 22	11 6.27	+15 34.3	2.986	3.928	5.4	20.7
4 1	11 0.20	+16 14.8	3.062	3.940	7.9	20.9
4 11	10 55.39	+16 42.1	3.163	3.952	10.0	21.0

427672 2004 BV_{137} 3 8.4 260°.36 3°.6/ 4.2 17

2 1	11 36.93	+12 27.7	2.207	3.034	11.9	21.0
2 11	11 33.18	+13 36.3	2.126	3.030	9.0	20.8
2 21	11 27.54	+14 51.1	2.071	3.026	5.9	20.7
3 2	11 20.55	+16 5.6	2.043	3.022	3.7	20.5
3 12	11 12.98	+17 12.6	2.045	3.017	4.7	20.6
3 22	11 5.66	+18 6.3	2.075	3.013	7.7	20.7
4 1	10 59.43	+18 42.5	2.131	3.009	10.8	20.9
4 11	10 54.90	+18 59.8	2.209	3.005	13.6	21.1

495378 2014 OP_{339} 3 8.4 170°.34 1°.0/ 7.4 17

2 1	11 43.10	+ 4 51.9	1.970	2.773	14.0	23.0
2 11	11 38.01	+ 5 30.9	1.888	2.777	10.7	22.8
2 21	11 30.71	+ 6 21.7	1.829	2.781	6.8	22.5
3 2	11 21.82	+ 7 19.4	1.798	2.784	2.6	22.3
3 12	11 12.26	+ 8 17.2	1.797	2.786	2.3	22.3
3 22	11 3.06	+ 9 8.9	1.824	2.788	6.5	22.5
4 1	10 55.17	+ 9 49.0	1.879	2.788	10.4	22.8
4 11	10 49.30	+10 14.5	1.958	2.788	13.8	23.0

312022 2007 RE_{72} 3 8.4 163°.58 1°.2/ 7.2 18

2 1	11 43.11	+ 5 20.8	1.982	2.787	13.9	21.9
2 11	11 37.98	+ 6 3.2	1.902	2.793	10.6	21.7
2 21	11 30.67	+ 6 56.9	1.846	2.799	6.7	21.5
3 2	11 21.79	+ 7 56.9	1.818	2.804	2.6	21.2
3 12	11 12.28	+ 8 56.3	1.819	2.808	2.5	21.2
3 22	11 3.13	+ 9 48.7	1.849	2.811	6.5	21.5
4 1	10 55.30	+10 28.9	1.907	2.814	10.4	21.7
4 11	10 49.49	+10 54.1	1.988	2.815	13.7	21.9

19697 1999 SY_{3} 3 8.4 252°.06 0°.0/ 8.2 18

2 1	11 36.74	+ 2 34.1	2.634	3.427	11.2	19.2
2 11	11 32.74	+ 2 58.9	2.534	3.417	8.6	19.0
2 21	11 27.14	+ 3 33.7	2.459	3.407	5.6	18.8
3 2	11 20.38	+ 4 15.7	2.411	3.396	2.2	18.5
3 12	11 13.08	+ 5 0.8	2.394	3.386	1.3	18.4
3 22	11 5.95	+ 5 44.5	2.406	3.375	4.7	18.7
4 1	10 59.65	+ 6 22.6	2.448	3.364	8.0	18.8
4 11	10 54.76	+ 6 51.7	2.514	3.353	10.8	19.0

138777 2000 SX_{330} 3 8.4 153°.97 0°.8/ 7.2 18

2 1	11 36.74	+ 5 22.4	2.939	3.736	10.0	21.2
2 11	11 32.48	+ 6 0.5	2.856	3.743	7.6	21.0
2 21	11 26.82	+ 6 46.0	2.798	3.749	4.8	20.8
3 2	11 20.20	+ 7 35.6	2.770	3.755	1.8	20.6
3 12	11 13.21	+ 8 25.0	2.772	3.761	1.7	20.6
3 22	11 6.43	+ 9 10.2	2.805	3.766	4.6	20.8
4 1	11 0.46	+ 9 47.7	2.866	3.771	7.4	21.0
4 11	10 55.75	+10 15.2	2.953	3.775	9.8	21.2

205613 2001 UF_{168} 3 8.4 104°.52 1°.1/ 9.1 18

2 1	11 47.83	+ 1 10.5	1.620	2.415	16.9	20.0
2 11	11 41.86	+ 1 6.2	1.552	2.434	13.1	19.8
2 21	11 33.26	+ 1 16.5	1.507	2.452	8.6	19.5
3 2	11 22.82	+ 1 38.2	1.487	2.470	3.8	19.3
3 12	11 11.74	+ 2 6.0	1.496	2.488	1.8	19.2
3 22	11 1.29	+ 2 34.1	1.533	2.504	6.5	19.5
4 1	10 52.60	+ 2 57.1	1.596	2.521	10.9	19.8
4 11	10 46.43	+ 3 10.6	1.683	2.537	14.6	20.1

368196 2000 YM 3 8.4 49°.38 3°.4/10.7 18

2 1	11 48.88	− 3 4.8	1.524	2.307	18.4	20.2
2 11	11 42.52	− 3 46.7	1.475	2.344	14.5	20.0
2 21	11 33.54	− 4 10.5	1.447	2.381	10.1	19.8
3 2	11 22.86	− 4 17.1	1.444	2.418	5.6	19.7
3 12	11 11.77	− 4 10.1	1.469	2.456	3.5	19.6
3 22	11 1.56	− 3 54.7	1.521	2.493	6.5	19.9
4 1	10 53.29	− 3 36.9	1.600	2.531	10.4	20.2
4 11	10 47.62	− 3 22.1	1.702	2.568	13.9	20.5

246001 2006 SM_{349} 3 8.4 128°.95 0°.5/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 36.61	+ 0 14.7	2.760	3.542	11.0	21.3
2 11	11 32.45	+ 0 47.1	2.678	3.553	8.5	21.2
2 21	11 26.83	+ 1 30.4	2.621	3.564	5.5	21.0
3 2	11 20.22	+ 2 21.5	2.592	3.575	2.4	20.8
3 12	11 13.21	+ 3 16.4	2.593	3.585	1.1	20.7
3 22	11 6.46	+ 4 10.4	2.625	3.595	4.3	21.0
4 1	11 0.56	+ 4 59.4	2.686	3.605	7.3	21.2
4 11	10 56.00	+ 5 39.9	2.773	3.614	9.9	21.3

300130 2006 VH_{48} 3 8.4 204°.79 1°.6/10.5 17

2 1	11 36.22	− 3 59.8	2.949	3.710	10.9	22.7
2 11	11 32.17	− 3 37.4	2.847	3.706	8.6	22.5
2 21	11 26.68	− 3 2.3	2.769	3.700	5.9	22.3
3 2	11 20.18	− 2 16.5	2.719	3.695	3.1	22.1
3 12	11 13.22	− 1 23.3	2.699	3.689	1.7	22.0
3 22	11 6.41	− 0 26.7	2.710	3.682	4.0	22.2
4 1	11 0.35	+ 0 28.8	2.751	3.676	6.8	22.3
4 11	10 55.53	+ 1 19.0	2.818	3.668	9.5	22.5

30396 Annleonard 3 8.4 359°.36 1°.5/ 6.9 18

2 1	11 37.71	+ 6 47.8	1.957	2.776	13.5	19.0
2 11	11 33.94	+ 7 21.9	1.876	2.775	10.2	18.7
2 21	11 28.11	+ 8 5.8	1.819	2.775	6.5	18.5
3 2	11 20.80	+ 8 54.7	1.788	2.774	2.6	18.3
3 12	11 12.87	+ 9 42.3	1.786	2.774	2.7	18.3
3 22	11 5.26	+10 22.6	1.812	2.775	6.6	18.5
4 1	10 58.86	+10 51.1	1.864	2.775	10.4	18.7
4 11	10 54.36	+11 5.0	1.939	2.776	13.6	18.9

462326 2008 JW_{10} 3 8.4 296°.41 2°.4/10.8 17

2 1	11 35.43	− 6 7.6	1.725	2.511	16.4	21.5
2 11	11 32.65	− 5 31.3	1.627	2.498	13.2	21.2
2 21	11 27.55	− 4 30.1	1.549	2.485	9.3	20.9
3 2	11 20.67	− 3 6.2	1.496	2.473	5.0	20.7
3 12	11 12.91	− 1 25.9	1.470	2.460	2.5	20.5
3 22	11 5.34	+ 0 21.5	1.472	2.448	6.1	20.7
4 1	10 59.02	+ 2 5.7	1.501	2.436	10.6	20.9
4 11	10 54.79	+ 3 37.5	1.553	2.424	14.7	21.1

20778 Wangchaohao 3 8.4 54°.41 2°.2/ 6.7 18

2 1	11 41.23	+ 6 33.8	1.353	2.187	17.5	18.3
2 11	11 37.27	+ 7 19.8	1.295	2.202	13.2	18.0
2 21	11 30.50	+ 8 19.5	1.259	2.217	8.3	17.8
3 2	11 21.77	+ 9 25.0	1.247	2.233	3.4	17.6
3 12	11 12.37	+10 26.7	1.261	2.249	3.6	17.6
3 22	11 3.66	+11 16.1	1.301	2.265	8.4	17.9
4 1	10 56.81	+11 47.3	1.365	2.281	13.0	18.2
4 11	10 52.61	+11 58.2	1.450	2.298	16.8	18.5

311568 2006 DP_{214} 3 8.4 225°.73 0°.3/ 8.1 17

2 1	11 41.20	+ 2 10.9	1.809	2.613	15.0	21.8
2 11	11 36.91	+ 2 51.4	1.715	2.604	11.6	21.6
2 21	11 30.23	+ 3 48.1	1.644	2.595	7.5	21.3
3 2	11 21.72	+ 4 56.6	1.600	2.585	2.9	21.0
3 12	11 12.34	+ 6 9.6	1.584	2.575	1.9	20.9
3 22	11 3.19	+ 7 19.3	1.596	2.564	6.7	21.2
4 1	10 55.34	+ 8 18.4	1.635	2.553	11.1	21.4
4 11	10 49.65	+ 9 1.8	1.698	2.541	15.0	21.6

307473 2002 XV_{11} 3 8.4 167°.57 2°.1/ 6.3 18

2 1	11 44.09	+ 9 25.1	2.200	3.007	12.6	21.0
2 11	11 38.52	+ 9 58.4	2.119	3.012	9.5	20.8
2 21	11 30.93	+10 38.3	2.064	3.016	6.1	20.5
3 2	11 21.89	+11 19.8	2.036	3.020	2.8	20.3
3 12	11 12.29	+11 57.3	2.039	3.023	3.1	20.4
3 22	11 3.04	+12 25.8	2.071	3.025	6.6	20.6
4 1	10 55.02	+12 42.0	2.131	3.027	10.0	20.8
4 11	10 48.88	+12 44.4	2.215	3.028	13.0	21.0

370709 2004 PP_{92} 3 8.4 148°.93 3°.0/12.0 16

2 1	11 39.26	− 8 20.9	2.557	3.298	12.8	22.1
2 11	11 34.61	− 8 7.9	2.468	3.309	10.4	21.9
2 21	11 28.31	− 7 38.4	2.402	3.318	7.6	21.8
3 2	11 20.84	− 6 53.8	2.363	3.328	4.7	21.6
3 12	11 12.89	− 5 57.5	2.354	3.336	3.0	21.5
3 22	11 5.21	− 4 54.2	2.374	3.344	4.6	21.6
4 1	10 58.48	− 3 49.5	2.424	3.352	7.5	21.8
4 11	10 53.27	− 2 48.6	2.500	3.358	10.2	22.0

206737 2004 BC_{120} 3 8.4 24°.63 3°.5/ 5.5 18

2 1	11 42.32	+13 33.9	1.873	2.700	13.7	19.8
2 11	11 37.47	+13 57.0	1.803	2.705	10.4	19.6
2 21	11 30.36	+14 23.2	1.756	2.710	6.8	19.4
3 2	11 21.69	+14 46.9	1.735	2.716	3.8	19.2
3 12	11 12.43	+15 2.0	1.743	2.722	4.5	19.3
3 22	11 3.66	+15 4.4	1.778	2.728	7.8	19.5
4 1	10 56.33	+14 51.9	1.840	2.735	11.4	19.7
4 11	10 51.11	+14 24.3	1.923	2.742	14.5	19.9

289913 2005 NF_{13} 3 8.4 311°.89 4°.1/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 37.25	− 8 38.9	2.167	2.921	14.5	20.3
2 11	11 33.55	− 8 54.2	2.067	2.913	11.9	20.1
2 21	11 27.88	− 8 51.9	1.988	2.905	8.9	19.9
3 2	11 20.75	− 8 31.8	1.935	2.896	5.8	19.7
3 12	11 12.92	− 7 56.4	1.909	2.888	4.1	19.6
3 22	11 5.25	− 7 10.0	1.911	2.881	5.6	19.7
4 1	10 58.62	− 6 18.2	1.941	2.873	8.7	19.8
4 11	10 53.71	− 5 27.5	1.995	2.866	11.9	20.0

165221 2000 SP_{44} 3 8.4 252°.72 6°.7/ 3.7 17

2 1	11 55.26	+22 2.5	1.871	2.682	14.4	19.9
2 11	11 47.84	+22 37.7	1.775	2.661	11.5	19.7
2 21	11 37.39	+23 9.6	1.702	2.640	8.5	19.4
3 2	11 24.61	+23 29.4	1.657	2.617	6.7	19.3
3 12	11 10.72	+23 29.1	1.641	2.595	7.8	19.3
3 22	10 57.17	+23 4.3	1.653	2.571	10.8	19.4
4 1	10 45.37	+22 14.6	1.692	2.547	14.3	19.6
4 11	10 36.29	+21 3.3	1.753	2.522	17.6	19.7

494798 2006 XL_{59} 3 8.4 172°.40 5°.7/ 1.7 18

2 1	11 42.42	+20 9.1	2.315	3.137	11.6	21.6
2 11	11 37.27	+21 29.5	2.246	3.141	9.0	21.4
2 21	11 30.13	+22 49.6	2.204	3.144	6.7	21.3
3 2	11 21.58	+24 1.9	2.190	3.147	5.7	21.2
3 12	11 12.49	+24 59.2	2.205	3.148	6.8	21.3
3 22	11 3.74	+25 36.8	2.248	3.150	9.2	21.5
4 1	10 56.20	+25 52.7	2.317	3.150	11.7	21.6
4 11	10 50.49	+25 47.6	2.406	3.150	14.0	21.8

232079 2001 VQ_{113} 3 8.4 152°.06 9°.5/22.5 18

2 1	11 45.46	+41 12.5	2.789	3.569	11.0	20.2
2 11	11 39.51	+42 35.0	2.752	3.575	10.0	20.1
2 21	11 31.50	+43 43.3	2.740	3.581	9.5	20.1
3 2	11 22.09	+44 30.5	2.752	3.586	9.8	20.1
3 12	11 12.23	+44 52.1	2.788	3.591	10.6	20.2
3 22	11 2.89	+44 46.7	2.847	3.596	11.8	20.3
4 1	10 54.94	+44 15.7	2.926	3.601	13.0	20.4
4 11	10 49.00	+43 22.6	3.022	3.605	14.2	20.5

33245 1998 HV_{14} 3 8.4 33°.27 1°.7/ 6.6 18

2 1	11 37.38	+ 7 24.0	2.054	2.873	12.9	19.8
2 11	11 33.55	+ 8 2.0	1.979	2.879	9.8	19.6
2 21	11 27.78	+ 8 48.8	1.929	2.884	6.2	19.4
3 2	11 20.66	+ 9 39.5	1.905	2.891	2.6	19.2
3 12	11 13.01	+10 27.9	1.910	2.897	2.8	19.2
3 22	11 5.71	+11 8.4	1.943	2.904	6.4	19.4
4 1	10 59.58	+11 36.9	2.003	2.911	9.9	19.7
4 11	10 55.24	+11 50.9	2.086	2.918	13.0	19.9

363542 2003 UF_{372} 3 8.4 160°.43 2°.7/11.1 18

2 1	11 40.45	− 6 12.4	1.894	2.664	15.7	22.0
2 11	11 36.13	− 5 51.9	1.808	2.669	12.6	21.8
2 21	11 29.58	− 5 10.7	1.743	2.674	8.9	21.5
3 2	11 21.42	− 4 10.7	1.704	2.678	5.0	21.3
3 12	11 12.56	− 2 57.2	1.693	2.681	2.8	21.2
3 22	11 4.03	− 1 37.6	1.711	2.684	5.7	21.4
4 1	10 56.78	− 0 19.7	1.756	2.687	9.6	21.6
4 11	10 51.56	+ 0 49.4	1.826	2.689	13.2	21.8

246268 2007 TD_{30} 3 8.4 76°.92 1°.6/ 6.8 17

2 1	11 38.92	+ 7 34.4	2.179	2.992	12.5	21.0
2 11	11 34.61	+ 8 6.2	2.101	2.997	9.4	20.8
2 21	11 28.42	+ 8 46.0	2.047	3.002	6.0	20.6
3 2	11 20.91	+ 9 29.2	2.021	3.007	2.5	20.4
3 12	11 12.87	+10 10.3	2.024	3.012	2.6	20.4
3 22	11 5.17	+10 44.4	2.056	3.017	6.1	20.6
4 1	10 58.60	+11 7.5	2.115	3.021	9.6	20.9
4 11	10 53.76	+11 17.5	2.198	3.026	12.6	21.1

258301 2001 UB_{107} 3 8.4 142°.40 2°.3/ 6.1 18

2 1	11 41.97	+ 9 10.3	2.149	2.961	12.7	21.2
2 11	11 36.92	+ 9 54.2	2.075	2.971	9.6	21.0
2 21	11 29.89	+10 45.4	2.026	2.980	6.1	20.8
3 2	11 21.48	+11 38.4	2.005	2.989	2.8	20.6
3 12	11 12.55	+12 26.9	2.014	2.997	3.3	20.6
3 22	11 4.01	+13 5.6	2.051	3.005	6.7	20.9
4 1	10 56.68	+13 31.0	2.116	3.012	10.1	21.1
4 11	10 51.21	+13 41.3	2.205	3.019	13.0	21.3

462908 2010 XC_{75} 3 8.4 285°.54 7°.9/28.9 18

2 1	11 39.31	+21 16.9	1.713	2.556	14.0	20.9
2 11	11 35.68	+23 6.7	1.646	2.550	11.1	20.7
2 21	11 29.50	+24 57.3	1.603	2.544	8.6	20.5
3 2	11 21.43	+26 37.1	1.587	2.538	7.9	20.5
3 12	11 12.56	+27 55.4	1.596	2.533	9.5	20.6
3 22	11 4.07	+28 45.1	1.631	2.527	12.4	20.7
4 1	10 57.10	+29 3.5	1.688	2.521	15.4	20.9
4 11	10 52.47	+28 52.4	1.763	2.515	18.1	21.1

311126 2004 QJ_{24} 3 8.4 185°.31 10°.0/20.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 42.86	−28 45.5	2.288	2.892	17.4	21.4
2 11	11 37.98	−29 23.2	2.187	2.892	15.8	21.3
2 21	11 30.83	−29 33.6	2.103	2.892	13.9	21.1
3 2	11 21.96	−29 12.2	2.038	2.891	11.9	21.0
3 12	11 12.25	−28 18.1	1.997	2.889	10.5	20.9
3 22	11 2.74	−26 53.8	1.981	2.885	10.0	20.8
4 1	10 54.46	−25 6.1	1.992	2.881	10.9	20.9
4 11	10 48.18	−23 5.0	2.027	2.876	12.7	21.0

459318 2012 HU_{3} 3 8.4 277°.56 3°.6/ 4.9 17

2 1	11 39.48	+11 0.8	1.892	2.719	13.5	21.0
2 11	11 35.63	+12 3.0	1.795	2.698	10.3	20.8
2 21	11 29.44	+13 14.9	1.721	2.677	6.7	20.5
3 2	11 21.44	+14 29.6	1.674	2.656	3.8	20.3
3 12	11 12.53	+15 38.6	1.656	2.634	4.9	20.3
3 22	11 3.77	+16 34.4	1.665	2.612	8.6	20.5
4 1	10 56.22	+17 11.3	1.700	2.589	12.5	20.7
4 11	10 50.73	+17 27.0	1.756	2.567	15.9	20.8

29231 1992 EG_{4} 3 8.4 47°.75 1°.6/ 6.7 18 R

2 1	11 37.75	+ 7 2.9	2.052	2.870	13.0	18.9
2 11	11 33.79	+ 7 40.4	1.982	2.880	9.8	18.7
2 21	11 27.92	+ 8 26.8	1.936	2.891	6.2	18.5
3 2	11 20.71	+ 9 17.2	1.916	2.902	2.5	18.3
3 12	11 13.01	+10 5.3	1.926	2.913	2.7	18.3
3 22	11 5.70	+10 45.8	1.963	2.924	6.3	18.6
4 1	10 59.58	+11 14.5	2.028	2.936	9.8	18.8
4 11	10 55.24	+11 29.1	2.116	2.948	12.8	19.0

212440 2006 PH_{19} 3 8.4 265°.81 0°.0/ 8.1 17

2 1	11 40.03	+ 1 40.0	1.738	2.545	15.4	21.4
2 11	11 36.21	+ 2 12.8	1.638	2.528	12.0	21.1
2 21	11 29.90	+ 3 2.7	1.560	2.511	7.9	20.8
3 2	11 21.66	+ 4 5.9	1.508	2.493	3.2	20.5
3 12	11 12.42	+ 5 15.4	1.484	2.476	1.8	20.4
3 22	11 3.32	+ 6 23.3	1.488	2.458	6.8	20.6
4 1	10 55.52	+ 7 21.8	1.517	2.439	11.5	20.8
4 11	10 49.93	+ 8 5.2	1.570	2.421	15.6	21.1

68716 2002 CX_{280} 3 8.4 280°.44 0°.3/ 8.1 17

2 1	11 39.93	+ 2 16.4	1.579	2.394	16.4	20.2
2 11	11 36.44	+ 2 50.8	1.477	2.372	12.7	19.9
2 21	11 30.24	+ 3 43.7	1.397	2.350	8.3	19.6
3 2	11 21.85	+ 4 51.0	1.342	2.328	3.3	19.2
3 12	11 12.29	+ 6 5.1	1.314	2.306	2.2	19.1
3 22	11 2.82	+ 7 16.7	1.314	2.283	7.6	19.3
4 1	10 54.75	+ 8 17.3	1.338	2.261	12.6	19.6
4 11	10 49.10	+ 9 0.4	1.384	2.238	17.1	19.8

63800 2001 RJ_{27} 3 8.4 136°.54 0°.8/ 7.5 18

2 1	11 38.15	+ 4 58.2	2.451	3.253	11.6	19.9
2 11	11 33.83	+ 5 30.8	2.370	3.259	8.8	19.7
2 21	11 27.84	+ 6 12.5	2.313	3.265	5.6	19.5
3 2	11 20.68	+ 6 59.3	2.284	3.270	2.1	19.3
3 12	11 13.05	+ 7 46.4	2.286	3.276	1.8	19.3
3 22	11 5.70	+ 8 29.1	2.317	3.281	5.2	19.5
4 1	10 59.33	+ 9 3.3	2.376	3.286	8.5	19.7
4 11	10 54.50	+ 9 26.3	2.460	3.291	11.3	19.9

522489 2016 EL_{230} 3 8.4 18°.59 2°.8/ 6.3 18

2 1	11 42.00	+ 9 52.7	1.522	2.354	16.0	20.8
2 11	11 37.75	+10 19.7	1.451	2.357	12.1	20.6
2 21	11 30.82	+10 55.1	1.402	2.360	7.8	20.4
3 2	11 21.96	+11 32.4	1.379	2.363	3.6	20.1
3 12	11 12.33	+12 3.9	1.382	2.367	4.0	20.1
3 22	11 3.22	+12 23.5	1.411	2.372	8.4	20.4
4 1	10 55.80	+12 27.0	1.466	2.376	12.7	20.7
4 11	10 50.88	+12 13.1	1.541	2.381	16.4	20.9

122577 2000 RH_{18} 3 8.4 104°.21 2°.9/10.9 18

2 1	11 44.16	− 4 30.0	2.107	2.870	14.6	19.7
2 11	11 38.59	− 4 46.3	2.032	2.888	11.6	19.6
2 21	11 30.96	− 4 47.6	1.979	2.907	8.2	19.4
3 2	11 21.93	− 4 34.8	1.953	2.924	4.7	19.2
3 12	11 12.36	− 4 11.1	1.956	2.942	2.9	19.1
3 22	11 3.21	− 3 40.9	1.988	2.959	5.3	19.3
4 1	10 55.34	− 3 9.2	2.048	2.975	8.7	19.5
4 11	10 49.40	− 2 41.0	2.134	2.992	11.8	19.7

226720 2004 PU_{36} 3 8.4 156°.30 1°.7/10.1 18

2 1	11 38.28	− 3 4.3	1.992	2.776	14.6	20.9
2 11	11 34.38	− 2 40.2	1.905	2.778	11.5	20.7
2 21	11 28.42	− 1 58.6	1.841	2.780	7.8	20.5
3 2	11 20.97	− 1 2.2	1.803	2.782	3.9	20.3
3 12	11 12.87	+ 0 3.7	1.793	2.784	1.9	20.1
3 22	11 5.07	+ 1 12.3	1.811	2.785	5.4	20.4
4 1	10 58.44	+ 2 16.8	1.858	2.786	9.3	20.6
4 11	10 53.68	+ 3 11.6	1.928	2.788	12.8	20.8

245419 2005 JS_{48} 3 8.4 89°.20 10°.6/23.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 45.47	+39 43.3	2.321	3.114	12.5	19.9
2 11	11 39.78	+41 16.5	2.293	3.129	11.2	19.9
2 21	11 31.77	+42 33.7	2.289	3.144	10.6	19.9
3 2	11 22.22	+43 26.5	2.310	3.159	10.8	19.9
3 12	11 12.23	+43 49.9	2.354	3.174	11.8	20.0
3 22	11 2.92	+43 42.7	2.420	3.189	13.1	20.1
4 1	10 55.26	+43 7.0	2.505	3.203	14.5	20.2
4 11	10 49.86	+42 7.2	2.607	3.217	15.8	20.4

144358 2004 DD_{42} 3 8.4 345°.75 1°.3/ 7.3 18

2 1	11 38.61	+ 4 47.3	1.535	2.361	16.2	19.9
2 11	11 35.22	+ 5 25.5	1.456	2.358	12.4	19.6
2 21	11 29.26	+ 6 18.7	1.399	2.356	7.9	19.3
3 2	11 21.37	+ 7 21.2	1.367	2.353	3.1	19.0
3 12	11 12.65	+ 8 24.6	1.362	2.351	2.8	19.0
3 22	11 4.30	+ 9 20.7	1.383	2.350	7.6	19.3
4 1	10 57.49	+10 2.5	1.429	2.349	12.2	19.6
4 11	10 53.05	+10 26.0	1.496	2.348	16.2	19.8

92334 2000 GJ_{78} 3 8.4 262°.76 1°.6/ 7.2 17

2 1	11 42.64	+ 5 45.0	1.605	2.424	16.0	20.7
2 11	11 38.45	+ 6 20.7	1.508	2.407	12.3	20.4
2 21	11 31.49	+ 7 10.9	1.434	2.389	7.9	20.1
3 2	11 22.34	+ 8 10.1	1.384	2.370	3.2	19.8
3 12	11 12.05	+ 9 10.4	1.363	2.352	3.0	19.7
3 22	11 1.93	+10 3.3	1.368	2.332	8.0	20.0
4 1	10 53.27	+10 41.9	1.399	2.313	12.9	20.2
4 11	10 47.10	+11 2.0	1.451	2.293	17.1	20.4

81760 2000 JG_{60} 3 8.4 338°.05 4°.5/ 5.3 18

2 1	11 41.72	+13 22.4	1.413	2.256	16.4	18.8
2 11	11 37.90	+13 55.1	1.336	2.247	12.6	18.5
2 21	11 31.14	+14 33.7	1.281	2.239	8.3	18.3
3 2	11 22.15	+15 10.2	1.250	2.231	4.8	18.0
3 12	11 12.20	+15 35.9	1.244	2.224	5.7	18.1
3 22	11 2.70	+15 44.1	1.264	2.218	9.9	18.3
4 1	10 55.00	+15 31.4	1.308	2.212	14.3	18.5
4 11	10 50.02	+14 57.8	1.371	2.208	18.2	18.7

222331 2000 UL_{72} 3 8.4 162°.23 6°.0/15.3 18

2 1	11 38.66	−16 26.7	2.283	2.986	15.2	20.3
2 11	11 34.51	−16 37.7	2.189	2.990	12.9	20.1
2 21	11 28.45	−16 26.5	2.115	2.993	10.4	20.0
3 2	11 20.98	−15 52.0	2.064	2.996	7.8	19.8
3 12	11 12.89	−14 56.3	2.041	2.999	6.1	19.7
3 22	11 5.03	−13 43.9	2.045	3.001	6.5	19.7
4 1	10 58.24	−12 21.5	2.078	3.003	8.6	19.9
4 11	10 53.17	−10 56.9	2.136	3.005	11.3	20.0

432155 2009 BV_{143} 3 8.4 20°.43 0°.0/ 8.1 18

2 1	11 37.35	+ 2 55.6	1.739	2.555	15.1	20.7
2 11	11 33.85	+ 3 12.8	1.667	2.562	11.5	20.5
2 21	11 28.14	+ 3 43.3	1.617	2.569	7.4	20.2
3 2	11 20.86	+ 4 23.1	1.592	2.578	3.0	20.0
3 12	11 12.97	+ 5 6.1	1.595	2.587	1.7	19.9
3 22	11 5.50	+ 5 46.1	1.625	2.596	6.2	20.2
4 1	10 59.40	+ 6 17.6	1.681	2.607	10.3	20.5
4 11	10 55.34	+ 6 36.8	1.760	2.618	13.9	20.7

172423 2003 OK_{16} 3 8.4 203°.13 0°.0/ 8.2 18

2 1	11 41.46	+ 1 27.4	2.160	2.950	13.4	21.2
2 11	11 36.71	+ 2 9.1	2.064	2.945	10.3	21.0
2 21	11 29.91	+ 3 5.0	1.992	2.939	6.7	20.7
3 2	11 21.58	+ 4 11.4	1.948	2.933	2.7	20.5
3 12	11 12.55	+ 5 22.1	1.933	2.925	1.6	20.4
3 22	11 3.72	+ 6 30.4	1.949	2.916	5.7	20.6
4 1	10 56.01	+ 7 30.4	1.993	2.907	9.6	20.8
4 11	10 50.11	+ 8 17.5	2.061	2.897	13.0	21.0

522706 2016 LA_{60} 3 8.4 142°.08 2°.4/ 5.3 17

2 1	11 36.89	+ 9 39.3	2.555	3.369	10.8	22.0
2 11	11 32.84	+10 42.5	2.479	3.376	8.1	21.8
2 21	11 27.19	+11 52.4	2.428	3.383	5.2	21.6
3 2	11 20.43	+13 3.6	2.407	3.389	2.7	21.4
3 12	11 13.23	+14 10.2	2.416	3.396	3.4	21.5
3 22	11 6.29	+15 7.2	2.455	3.401	6.2	21.7
4 1	11 0.29	+15 50.8	2.521	3.407	9.0	21.9
4 11	10 55.75	+16 19.0	2.611	3.412	11.6	22.1

423153 2004 EZ_{74} 3 8.4 33°.91 1°.7/ 7.1 18

2 1	11 42.83	+ 8 53.9	1.800	2.619	14.5	20.6
2 11	11 37.87	+ 8 58.0	1.732	2.630	11.0	20.4
2 21	11 30.63	+ 9 8.7	1.687	2.642	7.0	20.2
3 2	11 21.82	+ 9 21.5	1.669	2.654	2.9	19.9
3 12	11 12.46	+ 9 31.3	1.679	2.667	2.8	19.9
3 22	11 3.63	+ 9 33.9	1.717	2.681	6.8	20.2
4 1	10 56.28	+ 9 26.4	1.781	2.694	10.6	20.5
4 11	10 51.10	+ 9 7.5	1.868	2.708	14.0	20.7

462868 2010 VT_{88} 3 8.4 130°.95 1°.1/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 42.81	+ 5 39.3	2.078	2.881	13.4	22.2
2 11	11 37.60	+ 6 13.7	2.005	2.895	10.2	22.0
2 21	11 30.35	+ 6 57.9	1.956	2.908	6.4	21.8
3 2	11 21.70	+ 7 47.2	1.935	2.920	2.5	21.5
3 12	11 12.53	+ 8 35.6	1.943	2.932	2.3	21.5
3 22	11 3.78	+ 9 17.5	1.981	2.944	6.1	21.8
4 1	10 56.30	+ 9 48.7	2.047	2.955	9.7	22.0
4 11	10 50.74	+10 6.6	2.137	2.965	12.9	22.3

135149 2001 QZ_{217} 3 8.4 103°.18 0°.7/ 7.7 18

2 1	11 40.64	+ 5 49.1	2.328	3.130	12.2	19.5
2 11	11 35.77	+ 6 4.4	2.250	3.138	9.3	19.4
2 21	11 29.11	+ 6 27.7	2.196	3.147	5.9	19.2
3 2	11 21.20	+ 6 55.3	2.170	3.156	2.3	18.9
3 12	11 12.82	+ 7 22.9	2.174	3.165	1.8	18.9
3 22	11 4.77	+ 7 46.3	2.208	3.173	5.4	19.2
4 1	10 57.82	+ 8 2.1	2.270	3.181	8.7	19.4
4 11	10 52.54	+ 8 8.0	2.356	3.189	11.6	19.6

319985 2007 CU_{60} 3 8.4 325°.94 12°.7/23.6 18

2 1	11 33.15	+17 21.1	0.919	1.803	19.5	19.9
2 11	11 32.74	+21 58.5	0.868	1.796	15.4	19.6
2 21	11 28.60	+26 53.3	0.840	1.790	12.8	19.4
3 2	11 21.37	+31 31.9	0.837	1.784	13.7	19.5
3 12	11 12.63	+35 21.8	0.858	1.779	17.3	19.6
3 22	11 4.38	+38 4.0	0.899	1.774	21.7	19.9
4 1	10 58.53	+39 34.8	0.955	1.770	25.7	20.1
4 11	10 56.36	+40 2.6	1.022	1.767	28.9	20.4

240617 2004 XV_{65} 3 8.4 155°.60 0°.1/ 8.2 18

2 1	11 43.99	+ 2 33.7	1.999	2.793	14.2	21.7
2 11	11 38.64	+ 3 4.7	1.919	2.802	10.9	21.5
2 21	11 31.11	+ 3 48.6	1.863	2.811	7.0	21.3
3 2	11 22.04	+ 4 41.3	1.833	2.818	2.8	21.1
3 12	11 12.34	+ 5 36.7	1.834	2.825	1.7	21.0
3 22	11 3.03	+ 6 28.5	1.864	2.831	6.0	21.3
4 1	10 55.03	+ 7 11.4	1.922	2.836	9.9	21.5
4 11	10 49.05	+ 7 41.7	2.004	2.841	13.3	21.7

88671 2001 RV_{84} 3 8.4 294°.53 2°.6/10.4 18

2 1	11 39.92	− 3 32.3	1.398	2.202	18.7	19.9
2 11	11 36.60	− 3 28.7	1.312	2.195	14.9	19.6
2 21	11 30.39	− 3 1.8	1.245	2.187	10.4	19.3
3 2	11 21.92	− 2 13.4	1.201	2.180	5.4	19.0
3 12	11 12.35	− 1 9.4	1.183	2.173	2.8	18.8
3 22	11 3.07	+ 0 1.4	1.190	2.166	7.1	19.1
4 1	10 55.45	+ 1 9.2	1.222	2.159	12.2	19.3
4 11	10 50.48	+ 2 5.3	1.275	2.153	16.8	19.6

207247 2005 EO_{211} 3 8.4 329°.32 1°.7/ 6.7 17

2 1	11 38.14	+ 7 9.7	1.951	2.771	13.5	20.2
2 11	11 34.34	+ 7 46.9	1.868	2.767	10.2	20.0
2 21	11 28.44	+ 8 34.2	1.807	2.763	6.5	19.8
3 2	11 21.00	+ 9 26.2	1.774	2.759	2.7	19.5
3 12	11 12.91	+10 16.6	1.769	2.756	2.9	19.5
3 22	11 5.12	+10 59.2	1.791	2.753	6.8	19.8
4 1	10 58.53	+11 29.3	1.841	2.750	10.6	20.0
4 11	10 53.86	+11 44.0	1.912	2.747	13.9	20.2

411186 2010 JP_{1} 3 8.4 249°.52 7°.7/29.2 17

2 1	11 43.34	+21 15.4	1.819	2.652	13.8	21.4
2 11	11 38.83	+23 2.5	1.735	2.633	10.9	21.2
2 21	11 31.65	+24 52.2	1.675	2.614	8.5	21.0
3 2	11 22.39	+26 33.4	1.643	2.594	7.7	20.9
3 12	11 12.09	+27 54.8	1.637	2.573	9.4	20.9
3 22	11 1.99	+28 48.5	1.658	2.551	12.3	21.1
4 1	10 53.33	+29 11.0	1.702	2.529	15.5	21.2
4 11	10 47.07	+29 3.5	1.764	2.506	18.4	21.4

136770 1996 PC_{1} 3 8.4 139°.10 7°.5/13.5 16

2 1	12 0.34	−14 14.9	1.808	2.500	19.0	24.8
2 11	11 51.48	−15 19.4	1.728	2.525	16.0	24.7
2 21	11 39.59	−16 1.0	1.668	2.547	12.6	24.5
3 2	11 25.46	−16 15.8	1.635	2.568	9.3	24.3
3 12	11 10.42	−16 3.7	1.630	2.587	7.5	24.3
3 22	10 55.94	−15 28.6	1.656	2.603	8.5	24.4
4 1	10 43.40	−14 38.2	1.710	2.618	11.3	24.6
4 11	10 33.72	−13 42.1	1.789	2.631	14.4	24.8

320417 2007 VE_{32} 3 8.4 16°.07 4°.0/11.9 18

2 1	11 36.42	− 6 44.1	1.700	2.483	16.8	19.5
2 11	11 33.27	− 7 0.9	1.624	2.489	13.6	19.3
2 21	11 27.85	− 6 57.3	1.568	2.496	9.9	19.1
3 2	11 20.79	− 6 33.9	1.535	2.504	6.1	18.9
3 12	11 13.05	− 5 54.6	1.529	2.513	4.0	18.8
3 22	11 5.69	− 5 5.3	1.549	2.523	6.1	18.9
4 1	10 59.69	− 4 13.2	1.595	2.534	9.8	19.2
4 11	10 55.77	− 3 25.4	1.665	2.545	13.3	19.4

211905 2004 LK_{20} 3 8.4 249°.04 0°.5/ 7.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 35.79	+ 3 17.6	2.783	3.578	10.6	21.1
2 11	11 32.01	+ 4 4.4	2.677	3.563	8.1	20.9
2 21	11 26.70	+ 5 1.8	2.597	3.547	5.2	20.7
3 2	11 20.28	+ 6 6.2	2.545	3.531	2.0	20.4
3 12	11 13.33	+ 7 13.0	2.524	3.515	1.6	20.3
3 22	11 6.49	+ 8 17.1	2.534	3.498	4.8	20.5
4 1	11 0.41	+ 9 13.8	2.572	3.481	8.0	20.7
4 11	10 55.63	+ 9 59.6	2.636	3.463	10.7	20.9

299331 2005 QN_{174} 3 8.4 214°.20 1°.9/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.11	− 7 19.8	3.014	3.760	11.0	21.4
2 11	11 31.34	− 6 30.2	2.906	3.753	8.8	21.2
2 21	11 26.20	− 5 24.8	2.822	3.745	6.2	21.0
3 2	11 20.06	− 4 5.5	2.766	3.738	3.5	20.8
3 12	11 13.47	− 2 36.6	2.741	3.729	1.9	20.7
3 22	11 7.01	− 1 3.1	2.748	3.721	3.9	20.8
4 1	11 1.27	+ 0 29.1	2.786	3.712	6.7	21.0
4 11	10 56.74	+ 1 55.0	2.851	3.702	9.3	21.1

99681 2002 JU_{18} 3 8.4 313°.89 4°.2/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.17	+13 18.3	1.855	2.687	13.5	19.5
2 11	11 35.27	+14 16.8	1.777	2.682	10.3	19.2
2 21	11 29.11	+15 21.4	1.722	2.677	6.8	19.0
3 2	11 21.29	+16 24.6	1.694	2.673	4.3	18.9
3 12	11 12.77	+17 18.4	1.695	2.668	5.4	18.9
3 22	11 4.59	+17 56.5	1.722	2.664	8.7	19.1
4 1	10 57.75	+18 15.1	1.774	2.659	12.2	19.3
4 11	10 52.97	+18 13.2	1.848	2.655	15.4	19.5

27075 1998 SY_{143} 3 8.4 214°.66 0°.0/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.84	+ 2 20.3	1.719	2.522	15.8	19.4
2 11	11 39.07	+ 2 43.9	1.628	2.516	12.2	19.2
2 21	11 31.71	+ 3 22.8	1.559	2.509	8.0	18.9
3 2	11 22.39	+ 4 13.0	1.517	2.502	3.2	18.6
3 12	11 12.14	+ 5 8.0	1.502	2.494	1.8	18.5
3 22	11 2.16	+ 6 0.5	1.516	2.485	6.8	18.8
4 1	10 53.62	+ 6 43.8	1.556	2.476	11.4	19.0
4 11	10 47.42	+ 7 13.2	1.619	2.466	15.4	19.3

406642 2008 DB_{1} 3 8.4 42°.03 0°.3/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.22	+ 3 21.0	1.305	2.134	18.4	21.2
2 11	11 37.34	+ 3 39.7	1.249	2.151	14.0	20.9
2 21	11 30.60	+ 4 14.7	1.213	2.168	9.0	20.7
3 2	11 21.88	+ 5 0.4	1.200	2.186	3.5	20.4
3 12	11 12.49	+ 5 48.5	1.214	2.205	2.2	20.4
3 22	11 3.83	+ 6 30.9	1.253	2.225	7.5	20.8
4 1	10 57.08	+ 7 1.2	1.316	2.244	12.3	21.1
4 11	10 53.01	+ 7 15.5	1.400	2.265	16.3	21.4

388744 2007 VV_{318} 3 8.4 237°.01 4°.1/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.42	+16 28.9	2.315	3.137	11.6	21.3
2 11	11 36.51	+17 8.9	2.235	3.133	8.9	21.1
2 21	11 29.67	+17 50.2	2.179	3.129	6.1	20.9
3 2	11 21.46	+18 27.3	2.152	3.125	4.2	20.8
3 12	11 12.70	+18 54.3	2.154	3.121	5.1	20.9
3 22	11 4.25	+19 7.4	2.184	3.117	7.7	21.0
4 1	10 56.95	+19 4.3	2.241	3.112	10.6	21.2
4 11	10 51.41	+18 45.0	2.320	3.108	13.2	21.4

22043 1999 XW_{204} 3 8.4 191°.24 3°.7/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.72	− 7 8.7	2.404	3.148	13.5	18.2
2 11	11 37.48	− 7 36.8	2.306	3.147	11.0	18.0
2 21	11 30.32	− 7 50.6	2.231	3.146	8.1	17.8
3 2	11 21.75	− 7 50.1	2.183	3.145	5.2	17.6
3 12	11 12.52	− 7 36.9	2.163	3.143	3.7	17.5
3 22	11 3.49	− 7 14.3	2.173	3.140	5.3	17.6
4 1	10 55.47	− 6 46.6	2.212	3.138	8.2	17.8
4 11	10 49.14	− 6 18.7	2.277	3.135	11.1	18.0

447291 2005 WH_{37} 3 8.4 77°.40 0°.8/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.57	− 0 13.3	1.365	2.177	18.6	22.0
2 11	11 38.32	+ 0 13.3	1.303	2.194	14.4	21.8
2 21	11 31.23	+ 1 0.4	1.261	2.210	9.5	21.6
3 2	11 22.15	+ 2 2.9	1.243	2.227	4.0	21.3
3 12	11 12.34	+ 3 12.4	1.252	2.244	1.9	21.2
3 22	11 3.20	+ 4 19.4	1.287	2.260	7.1	21.5
4 1	10 55.93	+ 5 15.7	1.347	2.277	12.0	21.9
4 11	10 51.32	+ 5 55.6	1.428	2.293	16.1	22.1

496064 2009 OZ_{23} 3 8.4 185°.65 5°.4/13.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.90	−13 27.6	2.415	3.123	14.3	22.6
2 11	11 37.68	−13 57.7	2.315	3.123	12.1	22.4
2 21	11 30.48	−14 9.7	2.236	3.123	9.5	22.2
3 2	11 21.83	−14 2.5	2.183	3.121	7.0	22.1
3 12	11 12.48	−13 37.0	2.157	3.119	5.5	22.0
3 22	11 3.30	−12 56.7	2.161	3.117	6.2	22.0
4 1	10 55.15	−12 6.6	2.193	3.114	8.5	22.2
4 11	10 48.72	−11 13.1	2.251	3.110	11.2	22.3

83874 2001 UZ_{94} 3 8.4 85°.79 3°.7/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 34.49	−12 12.5	2.380	3.114	13.9	19.3
2 11	11 31.23	−11 34.8	2.284	3.116	11.4	19.2
2 21	11 26.28	−10 35.1	2.210	3.118	8.6	19.0
3 2	11 20.13	− 9 15.0	2.162	3.120	5.6	18.8
3 12	11 13.46	− 7 38.8	2.143	3.122	3.7	18.7
3 22	11 7.03	− 5 53.1	2.153	3.125	4.9	18.8
4 1	11 1.54	− 4 5.4	2.193	3.127	7.8	18.9
4 11	10 57.57	− 2 23.4	2.259	3.129	10.7	19.1

31843 2000 CQ_{80} 3 8.4 264°.19 1°.0/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.34	− 4 45.3	1.736	2.521	16.4	19.1
2 11	11 35.87	− 3 31.6	1.620	2.494	13.1	18.8
2 21	11 29.85	− 1 48.6	1.525	2.467	8.9	18.5
3 2	11 21.75	+ 0 20.8	1.457	2.439	4.1	18.1
3 12	11 12.46	+ 2 48.0	1.418	2.410	1.7	17.9
3 22	11 3.13	+ 5 20.6	1.409	2.380	6.9	18.1
4 1	10 54.99	+ 7 45.1	1.428	2.350	12.1	18.4
4 11	10 49.06	+ 9 50.4	1.470	2.319	16.6	18.6

164668 1996 TP_{56} 3 8.4 256°.92 3°.6/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.09	− 5 23.5	1.700	2.478	16.9	20.5
2 11	11 37.88	− 5 37.4	1.601	2.466	13.7	20.3
2 21	11 31.06	− 5 31.6	1.523	2.454	9.9	20.0
3 2	11 22.19	− 5 6.5	1.469	2.441	5.8	19.7
3 12	11 12.26	− 4 25.3	1.441	2.428	3.6	19.6
3 22	11 2.48	− 3 33.8	1.441	2.414	6.6	19.7
4 1	10 54.07	− 2 39.7	1.467	2.401	10.9	19.9
4 11	10 47.98	− 1 50.5	1.517	2.387	15.0	20.1

420509 2012 FA_{39} 3 8.4 126°.60 1°.7/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.45	− 0 13.6	1.811	2.601	15.6	20.9
2 11	11 39.26	− 0 25.1	1.729	2.606	12.2	20.7
2 21	11 31.66	− 0 22.7	1.670	2.611	8.3	20.5
3 2	11 22.32	− 0 8.3	1.636	2.617	4.0	20.2
3 12	11 12.24	+ 0 14.1	1.630	2.621	2.0	20.1
3 22	11 2.55	+ 0 39.4	1.654	2.626	5.9	20.4
4 1	10 54.30	+ 1 2.4	1.704	2.631	10.1	20.6
4 11	10 48.27	+ 1 18.5	1.778	2.635	13.8	20.8

267033 1996 VW_{35} 3 8.4 164°.36 1°.6/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.51	+ 5 41.3	2.018	2.831	13.4	21.1
2 11	11 34.53	+ 6 37.5	1.937	2.833	10.1	20.8
2 21	11 28.52	+ 7 45.7	1.880	2.835	6.4	20.6
3 2	11 21.05	+ 8 59.9	1.851	2.837	2.6	20.4
3 12	11 12.96	+10 13.1	1.851	2.838	2.8	20.4
3 22	11 5.19	+11 18.3	1.879	2.839	6.6	20.6
4 1	10 58.59	+12 9.9	1.935	2.840	10.3	20.9
4 11	10 53.85	+12 44.7	2.013	2.841	13.6	21.1

138579 2000 QA_{132} 3 8.4 190°.53 3°.2/12.1 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.22	− 7 51.6	2.957	3.689	11.4	20.5
2 11	11 35.23	− 8 8.0	2.854	3.688	9.3	20.3
2 21	11 28.71	− 8 11.7	2.775	3.686	6.9	20.2
3 2	11 21.08	− 8 3.1	2.724	3.684	4.5	20.0
3 12	11 12.95	− 7 44.0	2.703	3.681	3.2	19.9
3 22	11 4.96	− 7 17.1	2.712	3.678	4.4	20.0
4 1	10 57.77	− 6 46.0	2.751	3.675	6.9	20.1
4 11	10 51.91	− 6 14.9	2.816	3.671	9.3	20.3

379765 2011 HO_{10} 3 8.4 3°.79 4°.2/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.00	+14 4.8	1.666	2.501	14.7	20.6
2 11	11 37.60	+14 39.1	1.595	2.501	11.2	20.4
2 21	11 30.68	+15 17.3	1.545	2.501	7.4	20.2
3 2	11 21.94	+15 52.4	1.522	2.501	4.5	20.0
3 12	11 12.49	+16 17.1	1.526	2.502	5.4	20.0
3 22	11 3.52	+16 25.9	1.556	2.504	8.9	20.3
4 1	10 56.13	+16 16.3	1.611	2.506	12.7	20.5
4 11	10 51.09	+15 48.4	1.687	2.508	16.0	20.7

6095 1991 UU 3 8.4 253°.67 3°.2/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.35	− 5 42.7	1.699	2.477	16.9	17.6
2 11	11 37.38	− 5 36.4	1.594	2.460	13.7	17.4
2 21	11 30.79	− 5 8.0	1.510	2.443	9.8	17.1
3 2	11 22.11	− 4 18.2	1.450	2.425	5.6	16.8
3 12	11 12.31	− 3 11.3	1.418	2.406	3.2	16.6
3 22	11 2.60	− 1 54.5	1.413	2.387	6.5	16.7
4 1	10 54.21	− 0 37.0	1.434	2.367	11.1	16.9
4 11	10 48.12	+ 0 32.6	1.479	2.347	15.4	17.2

214652 2006 SR_{75} 3 8.4 57°.14 3°.6/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.80	+14 16.1	2.220	3.044	11.9	20.7
2 11	11 35.26	+14 56.1	2.151	3.052	9.0	20.5
2 21	11 28.84	+15 39.0	2.107	3.060	6.0	20.3
3 2	11 21.13	+16 19.0	2.091	3.069	3.7	20.2
3 12	11 12.96	+16 50.5	2.104	3.077	4.5	20.2
3 22	11 5.18	+17 9.3	2.144	3.085	7.3	20.4
4 1	10 58.57	+17 13.1	2.212	3.094	10.3	20.6
4 11	10 53.72	+17 1.4	2.302	3.103	12.9	20.8

505074 2011 SS_{254} 3 8.4 255°.75 0°.4/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.74	+ 2 55.0	2.421	3.210	12.2	21.5
2 11	11 36.70	+ 2 49.6	2.323	3.202	9.4	21.3
2 21	11 29.81	+ 2 52.9	2.249	3.195	6.2	21.1
3 2	11 21.56	+ 3 2.7	2.203	3.187	2.6	20.8
3 12	11 12.69	+ 3 15.9	2.187	3.179	1.3	20.7
3 22	11 4.02	+ 3 28.9	2.201	3.171	5.0	20.9
4 1	10 56.35	+ 3 38.3	2.244	3.163	8.4	21.1
4 11	10 50.31	+ 3 41.2	2.311	3.155	11.5	21.3

176025 2000 SB_{79} 3 8.4 134°.37 1°.4/ 6.6 18

2 1	11 38.05	+ 7 49.7	2.853	3.656	10.1	21.4
2 11	11 33.52	+ 8 25.9	2.776	3.667	7.6	21.3
2 21	11 27.54	+ 9 8.0	2.725	3.678	4.8	21.1
3 2	11 20.59	+ 9 52.3	2.703	3.688	2.0	20.9
3 12	11 13.27	+10 34.6	2.712	3.698	2.2	21.0
3 22	11 6.21	+11 11.0	2.751	3.708	5.0	21.2
4 1	11 0.01	+11 38.4	2.818	3.717	7.7	21.4
4 11	10 55.14	+11 55.0	2.911	3.726	10.2	21.5

469106 2015 DV_{16} 3 8.4 100°.98 2°.8/ 5.2 18

2 1	11 37.10	+ 9 22.9	2.073	2.896	12.7	21.1
2 11	11 33.42	+10 31.3	1.996	2.898	9.5	20.9
2 21	11 27.79	+11 48.7	1.943	2.900	6.1	20.7
3 2	11 20.76	+13 8.4	1.919	2.902	3.1	20.5
3 12	11 13.16	+14 22.8	1.923	2.903	4.0	20.6
3 22	11 5.86	+15 25.4	1.956	2.905	7.3	20.8
4 1	10 59.70	+16 11.4	2.015	2.907	10.7	21.0
4 11	10 55.32	+16 38.5	2.097	2.908	13.7	21.2

3562 Ignatius 3 8.4 7°.12 5°.4/ 4.5 18

2 1	11 37.31	+11 57.5	1.117	1.978	18.5	16.0
2 11	11 35.02	+13 7.5	1.057	1.979	14.0	15.7
2 21	11 29.50	+14 28.6	1.018	1.980	9.2	15.4
3 2	11 21.58	+15 49.2	1.001	1.982	5.6	15.2
3 12	11 12.71	+16 56.1	1.007	1.986	7.0	15.3
3 22	11 4.48	+17 39.1	1.037	1.990	11.6	15.6
4 1	10 58.34	+17 53.0	1.088	1.996	16.3	15.9
4 11	10 55.20	+17 38.2	1.157	2.003	20.3	16.1

307681 2003 SA_{425} 3 8.4 3°.87 0°.0/ 8.2 18

2 1	11 38.56	+ 2 30.9	1.250	2.084	18.7	20.8
2 11	11 35.69	+ 2 45.5	1.179	2.083	14.5	20.6
2 21	11 29.83	+ 3 18.6	1.127	2.083	9.4	20.3
3 2	11 21.71	+ 4 5.6	1.098	2.084	3.8	20.0
3 12	11 12.62	+ 4 58.2	1.093	2.085	2.1	19.8
3 22	11 4.03	+ 5 47.3	1.114	2.088	7.9	20.2
4 1	10 57.29	+ 6 24.9	1.158	2.091	13.1	20.5
4 11	10 53.34	+ 6 45.6	1.221	2.096	17.6	20.8

26872 1993 YR 3 8.4 81°.65 4°.4/13.3 18

2 1	11 41.46	−11 58.5	1.924	2.662	16.6	19.0
2 11	11 36.64	−11 40.8	1.862	2.695	13.5	18.9
2 21	11 29.76	−10 59.3	1.819	2.728	10.1	18.7
3 2	11 21.49	− 9 55.7	1.802	2.760	6.6	18.6
3 12	11 12.81	− 8 35.1	1.813	2.791	4.5	18.5
3 22	11 4.66	− 7 5.2	1.852	2.822	5.8	18.7
4 1	10 57.92	− 5 34.2	1.920	2.852	8.8	18.9
4 11	10 53.16	− 4 10.0	2.013	2.882	11.9	19.1

150171 1998 DV_{19} 3 8.4 333°.01 2°.8/ 6.3 17

2 1	11 38.93	+ 9 18.8	1.506	2.344	15.9	19.2
2 11	11 35.65	+ 9 48.8	1.422	2.331	12.1	18.9
2 21	11 29.67	+10 29.0	1.360	2.319	7.8	18.6
3 2	11 21.64	+11 12.9	1.322	2.308	3.6	18.4
3 12	11 12.65	+11 52.6	1.311	2.297	4.1	18.4
3 22	11 3.98	+12 20.6	1.325	2.287	8.6	18.6
4 1	10 56.87	+12 31.8	1.364	2.278	13.1	18.8
4 11	10 52.23	+12 24.0	1.423	2.270	17.1	19.1

491070 2011 QQ_{91} 3 8.4 192°.37 2°.1/10.4 17

2 1	11 42.22	− 4 17.0	1.920	2.694	15.4	22.8
2 11	11 37.56	− 3 53.4	1.827	2.692	12.3	22.6
2 21	11 30.61	− 3 10.4	1.755	2.690	8.5	22.4
3 2	11 21.95	− 2 10.2	1.710	2.687	4.4	22.1
3 12	11 12.49	− 0 58.2	1.693	2.683	2.2	21.9
3 22	11 3.29	+ 0 18.3	1.706	2.679	5.8	22.2
4 1	10 55.36	+ 1 31.7	1.746	2.673	9.9	22.4
4 11	10 49.49	+ 2 35.2	1.811	2.667	13.6	22.6

337220 2000 CC_{109} 3 8.4 234°.29 3°.1/ 4.6 17

2 1	11 37.10	+10 39.2	2.311	3.132	11.6	21.5
2 11	11 33.31	+11 53.9	2.223	3.124	8.8	21.3
2 21	11 27.69	+13 16.7	2.161	3.116	5.7	21.1
3 2	11 20.74	+14 41.3	2.128	3.108	3.3	20.9
3 12	11 13.19	+16 0.4	2.124	3.099	4.2	21.0
3 22	11 5.83	+17 7.7	2.149	3.091	7.3	21.1
4 1	10 59.47	+17 58.5	2.201	3.082	10.4	21.3
4 11	10 54.74	+18 30.7	2.276	3.073	13.2	21.5

180913 2005 LD_4 3 8.4 265°.23 1°.7/ 6.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.73	+ 5 8.4	1.727	2.547	15.0	20.7
2 11	11 35.19	+ 6 6.2	1.636	2.536	11.4	20.5
2 21	11 29.23	+ 7 19.5	1.569	2.525	7.3	20.2
3 2	11 21.44	+ 8 42.1	1.527	2.513	2.9	19.9
3 12	11 12.78	+10 5.4	1.514	2.502	3.1	19.9
3 22	11 4.35	+11 20.4	1.529	2.491	7.6	20.1
4 1	10 57.24	+12 19.9	1.569	2.479	12.0	20.4
4 11	10 52.30	+12 59.5	1.631	2.467	15.8	20.6

292144 2006 RB_{88} 3 8.4 280°.32 0°.6/ 7.9 17

2 1	11 40.75	+ 3 48.8	1.663	2.478	15.7	22.0
2 11	11 36.91	+ 4 14.6	1.565	2.461	12.1	21.8
2 21	11 30.46	+ 4 55.4	1.490	2.443	7.9	21.5
3 2	11 21.98	+ 5 46.8	1.440	2.426	3.1	21.1
3 12	11 12.46	+ 6 42.0	1.417	2.408	2.2	21.0
3 22	11 3.10	+ 7 33.4	1.421	2.390	7.2	21.3
4 1	10 55.11	+ 8 14.0	1.451	2.372	12.0	21.5
4 11	10 49.44	+ 8 39.0	1.503	2.355	16.2	21.7

141323 2001 YZ_{131} 3 8.4 171°.79 2°.6/11.3 18

2 1	11 38.54	− 5 27.1	2.593	3.350	12.3	20.2
2 11	11 34.14	− 5 31.2	2.499	3.351	9.9	20.1
2 21	11 28.09	− 5 21.6	2.428	3.352	7.0	19.9
3 2	11 20.87	− 4 59.6	2.384	3.353	4.1	19.7
3 12	11 13.14	− 4 27.8	2.369	3.354	2.6	19.6
3 22	11 5.60	− 3 50.0	2.384	3.355	4.5	19.7
4 1	10 58.97	− 3 10.6	2.427	3.355	7.4	19.9
4 11	10 53.79	− 2 34.1	2.496	3.355	10.2	20.1

41898 2000 WN_{124} 3 8.4 69°.86 14°.3/20.2 18

2 1	11 51.18	+46 25.3	1.871	2.649	15.6	18.4
2 11	11 44.86	+48 34.4	1.874	2.679	14.6	18.4
2 21	11 35.32	+50 16.3	1.898	2.708	14.3	18.5
3 2	11 23.70	+51 21.1	1.943	2.738	14.7	18.6
3 12	11 11.67	+51 44.2	2.007	2.767	15.6	18.7
3 22	11 0.83	+51 26.7	2.090	2.796	16.7	18.8
4 1	10 52.44	+50 34.0	2.189	2.825	17.8	19.0
4 11	10 47.16	+49 13.7	2.300	2.854	18.8	19.1

505313 2012 XZ_{77} 3 8.4 150°.03 0°.7/ 9.4 17

2 1	11 36.93	− 0 37.2	2.760	3.538	11.1	22.9
2 11	11 32.77	− 0 10.0	2.673	3.545	8.6	22.8
2 21	11 27.14	+ 0 28.6	2.610	3.551	5.7	22.6
3 2	11 20.47	+ 1 15.8	2.575	3.557	2.6	22.4
3 12	11 13.38	+ 2 7.8	2.570	3.562	1.1	22.3
3 22	11 6.52	+ 3 0.0	2.596	3.567	4.2	22.5
4 1	11 0.50	+ 3 48.2	2.651	3.572	7.2	22.7
4 11	10 55.81	+ 4 28.7	2.732	3.577	9.9	22.9

257226 2009 DW_{31} 3 8.4 206°.63 1°.1/ 7.3 18

2 1	11 40.73	+ 3 58.2	2.005	2.809	13.8	21.0
2 11	11 36.33	+ 4 50.5	1.914	2.805	10.5	20.8
2 21	11 29.78	+ 5 56.5	1.847	2.799	6.7	20.6
3 2	11 21.62	+ 7 11.3	1.807	2.793	2.6	20.3
3 12	11 12.72	+ 8 27.5	1.797	2.786	2.3	20.3
3 22	11 4.07	+ 9 37.9	1.815	2.779	6.5	20.5
4 1	10 56.60	+10 36.1	1.862	2.771	10.5	20.7
4 11	10 51.06	+11 18.2	1.931	2.762	13.9	20.9

362673 2011 UQ_{52} 3 8.4 92°.32 0°.4/ 8.1 18

2 1	11 43.16	+ 2 9.7	1.637	2.443	16.3	21.7
2 11	11 38.28	+ 2 54.0	1.576	2.467	12.4	21.5
2 21	11 30.98	+ 3 54.1	1.539	2.490	7.9	21.3
3 2	11 22.03	+ 5 3.9	1.527	2.512	3.0	21.0
3 12	11 12.55	+ 6 15.3	1.543	2.535	2.0	21.0
3 22	11 3.68	+ 7 20.4	1.588	2.556	6.7	21.3
4 1	10 56.44	+ 8 12.7	1.659	2.578	10.9	21.6
4 11	10 51.49	+ 8 48.4	1.753	2.598	14.5	21.9

135494 2001 XW_{48} 3 8.4 31°.18 2°.4/ 6.4 18

2 1	11 39.68	+ 8 5.4	1.550	2.382	15.8	19.6
2 11	11 35.93	+ 8 46.5	1.483	2.388	11.9	19.4
2 21	11 29.65	+ 9 38.4	1.437	2.395	7.6	19.1
3 2	11 21.57	+10 34.4	1.417	2.402	3.3	18.9
3 12	11 12.79	+11 26.1	1.424	2.410	3.7	18.9
3 22	11 4.52	+12 6.3	1.457	2.418	8.0	19.2
4 1	10 57.84	+12 30.0	1.515	2.427	12.2	19.5
4 11	10 53.51	+12 35.2	1.594	2.436	15.9	19.7

388791 2008 AA_{97} 3 8.4 244°.12 0°.0/ 8.3 17

2 1	11 39.19	+ 3 23.7	2.516	3.310	11.6	21.5
2 11	11 34.69	+ 3 33.2	2.422	3.305	8.9	21.3
2 21	11 28.48	+ 3 51.7	2.352	3.300	5.8	21.1
3 2	11 21.04	+ 4 16.4	2.310	3.295	2.3	20.9
3 12	11 13.07	+ 4 43.6	2.298	3.290	1.3	20.8
3 22	11 5.30	+ 5 9.4	2.316	3.285	4.8	21.0
4 1	10 58.46	+ 5 30.2	2.362	3.279	8.2	21.2
4 11	10 53.14	+ 5 43.0	2.433	3.274	11.1	21.4

374140 2004 TP_{160} 3 8.4 63°.11 1°.9/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.36	− 3 11.0	1.873	2.661	15.2	21.0
2 11	11 34.53	− 2 55.3	1.795	2.669	12.0	20.8
2 21	11 28.58	− 2 21.9	1.739	2.678	8.2	20.6
3 2	11 21.12	− 1 33.3	1.708	2.686	4.2	20.4
3 12	11 13.04	− 0 35.0	1.705	2.695	2.1	20.3
3 22	11 5.32	+ 0 26.5	1.730	2.704	5.5	20.5
4 1	10 58.88	+ 1 24.4	1.781	2.713	9.4	20.7
4 11	10 54.39	+ 2 12.9	1.857	2.722	12.9	21.0

406810 2008 UK_{239} 3 8.4 313°.31 1°.5/ 9.4 17

2 1	11 43.41	+ 0 57.9	1.347	2.163	18.6	21.1
2 11	11 39.43	+ 0 41.4	1.262	2.155	14.7	20.8
2 21	11 32.33	+ 0 41.5	1.198	2.147	9.9	20.5
3 2	11 22.79	+ 0 56.2	1.156	2.139	4.6	20.2
3 12	11 12.05	+ 1 20.3	1.140	2.132	2.2	20.0
3 22	11 1.64	+ 1 47.2	1.149	2.125	7.5	20.3
4 1	10 53.03	+ 2 9.8	1.183	2.118	12.8	20.6
4 11	10 47.29	+ 2 22.4	1.238	2.112	17.5	20.8

187335 2005 UO_{104} 3 8.4 279°.02 3°.9/ 4.8 18

2 1	11 41.30	+12 13.6	1.893	2.719	13.6	20.1
2 11	11 37.12	+13 8.7	1.792	2.694	10.4	19.9
2 21	11 30.51	+14 12.1	1.714	2.669	6.9	19.6
3 2	11 22.00	+15 16.9	1.664	2.644	4.1	19.4
3 12	11 12.50	+16 14.9	1.641	2.618	5.1	19.4
3 22	11 3.11	+16 58.9	1.647	2.591	8.8	19.5
4 1	10 54.94	+17 23.8	1.677	2.565	12.7	19.7
4 11	10 48.90	+17 27.6	1.729	2.538	16.2	19.9

3650 Kunming 3 8.4 210°.46 4°.2/ 2.8 18

2 1	11 40.48	+19 30.5	3.011	3.826	9.4	17.6
2 11	11 35.43	+20 17.9	2.927	3.819	7.3	17.5
2 21	11 28.84	+21 4.9	2.870	3.811	5.2	17.3
3 2	11 21.16	+21 46.6	2.842	3.804	4.2	17.2
3 12	11 13.04	+22 18.3	2.844	3.795	5.0	17.3
3 22	11 5.13	+22 36.8	2.875	3.787	7.0	17.4
4 1	10 58.08	+22 40.4	2.933	3.777	9.2	17.5
4 11	10 52.42	+22 29.1	3.015	3.768	11.3	17.7

503070 2015 FX_{222} 3 8.4 39°.04 1°.0/ 7.4 17

2 1	11 35.97	+ 3 31.0	1.943	2.757	13.8	21.2
2 11	11 32.65	+ 4 25.9	1.867	2.763	10.5	21.0
2 21	11 27.34	+ 5 34.6	1.815	2.769	6.6	20.8
3 2	11 20.62	+ 6 51.5	1.790	2.776	2.5	20.6
3 12	11 13.34	+ 8 9.3	1.793	2.783	2.2	20.5
3 22	11 6.39	+ 9 20.8	1.824	2.790	6.3	20.8
4 1	11 0.63	+10 19.7	1.882	2.797	10.1	21.1
4 11	10 56.69	+11 2.3	1.964	2.804	13.4	21.3

363274 2002 GW_{58} 3 8.4 316°.07 0°.5/ 8.8 17

2 1	11 38.71	+ 1 24.3	1.368	2.192	17.9	21.0
2 11	11 35.81	+ 1 38.0	1.280	2.178	14.0	20.7
2 21	11 29.99	+ 2 10.8	1.211	2.164	9.3	20.4
3 2	11 21.87	+ 2 59.3	1.165	2.150	3.9	20.1
3 12	11 12.58	+ 3 56.2	1.145	2.137	1.9	19.9
3 22	11 3.53	+ 4 52.7	1.150	2.125	7.6	20.2
4 1	10 56.11	+ 5 40.1	1.179	2.113	13.0	20.4
4 11	10 51.37	+ 6 11.7	1.229	2.101	17.7	20.7

417818 2007 FT_{11} 3 8.4 19°.32 0°.0/ 8.2 18

2 1	11 36.45	+ 1 48.5	1.357	2.186	17.8	21.0
2 11	11 33.77	+ 2 19.2	1.291	2.193	13.7	20.7
2 21	11 28.41	+ 3 8.9	1.245	2.200	8.8	20.5
3 2	11 21.12	+ 4 11.9	1.223	2.209	3.5	20.2
3 12	11 13.08	+ 5 19.6	1.226	2.218	2.0	20.1
3 22	11 5.55	+ 6 22.6	1.256	2.229	7.3	20.5
4 1	10 59.71	+ 7 13.0	1.309	2.240	12.1	20.8
4 11	10 56.34	+ 7 45.7	1.383	2.252	16.2	21.0

63380 2001 HE_{51} 3 8.4 234°.84 1°.6/ 9.8 18

2 1	11 41.97	− 1 13.0	1.829	2.619	15.5	20.0
2 11	11 37.52	− 1 9.8	1.735	2.612	12.2	19.7
2 21	11 30.68	− 0 50.6	1.664	2.606	8.3	19.5
3 2	11 22.04	− 0 17.6	1.618	2.598	4.0	19.2
3 12	11 12.54	+ 0 24.7	1.600	2.591	1.9	19.0
3 22	11 3.27	+ 1 10.3	1.610	2.583	6.0	19.3
4 1	10 55.31	+ 1 52.7	1.647	2.576	10.3	19.5
4 11	10 49.49	+ 2 26.5	1.708	2.567	14.1	19.7

208676 2002 GN_{86} 3 8.4 308°.28 0°.7/ 7.8 17

2 1	11 36.98	+ 2 15.0	1.419	2.246	17.2	20.3
2 11	11 34.36	+ 3 2.9	1.331	2.232	13.3	20.0
2 21	11 28.99	+ 4 12.0	1.263	2.219	8.6	19.7
3 2	11 21.46	+ 5 36.7	1.219	2.205	3.3	19.4
3 12	11 12.85	+ 7 7.4	1.201	2.192	2.5	19.3
3 22	11 4.47	+ 8 33.3	1.210	2.180	8.0	19.6
4 1	10 57.64	+ 9 44.3	1.242	2.168	13.2	19.8
4 11	10 53.34	+10 34.0	1.295	2.156	17.7	20.1

343123 2009 EV_{16} 3 8.4 96°.14 1°.2/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 35.86	− 2 55.5	2.364	3.143	12.7	21.0
2 11	11 32.21	− 2 16.4	2.281	3.152	9.9	20.8
2 21	11 26.90	− 1 22.0	2.222	3.161	6.7	20.6
3 2	11 20.42	− 0 15.5	2.190	3.170	3.2	20.4
3 12	11 13.48	+ 0 57.9	2.188	3.179	1.4	20.3
3 22	11 6.81	+ 2 12.4	2.215	3.188	4.6	20.5
4 1	11 1.11	+ 3 22.0	2.270	3.196	8.0	20.8
4 11	10 56.94	+ 4 21.8	2.352	3.205	11.0	21.0

250396 2003 UX_{173} 3 8.4 191°.97 0°.9/ 7.6 17

2 1	11 46.24	+ 5 50.8	2.223	3.016	13.0	21.0
2 11	11 40.28	+ 6 10.4	2.130	3.014	9.9	20.8
2 21	11 32.20	+ 6 38.9	2.062	3.012	6.4	20.6
3 2	11 22.58	+ 7 12.4	2.023	3.008	2.5	20.3
3 12	11 12.27	+ 7 45.8	2.014	3.004	2.0	20.2
3 22	11 2.23	+ 8 14.5	2.035	2.998	5.9	20.5
4 1	10 53.39	+ 8 34.3	2.085	2.992	9.6	20.7
4 11	10 46.45	+ 8 42.9	2.160	2.985	12.9	20.9

341653 2007 VR_{52} 3 8.4 164°.61 1°.8/10.7 17

2 1	11 36.86	− 4 30.6	2.618	3.382	12.0	21.9
2 11	11 32.85	− 4 6.6	2.525	3.385	9.5	21.7
2 21	11 27.27	− 3 28.3	2.457	3.388	6.6	21.5
3 2	11 20.57	− 2 37.7	2.415	3.391	3.5	21.3
3 12	11 13.40	− 1 38.7	2.404	3.393	1.9	21.2
3 22	11 6.45	− 0 36.2	2.422	3.395	4.3	21.4
4 1	11 0.36	+ 0 24.7	2.470	3.397	7.4	21.6
4 11	10 55.69	+ 1 19.2	2.544	3.399	10.2	21.7

427577 2003 OS_{18} 3 8.4 184°.40 4°.1/12.9 18

2 1	11 40.83	−10 30.9	2.615	3.339	13.0	21.5
2 11	11 35.94	−10 47.0	2.515	3.340	10.7	21.3
2 21	11 29.31	−10 47.2	2.438	3.339	8.2	21.1
3 2	11 21.42	−10 31.4	2.387	3.339	5.6	21.0
3 12	11 12.94	−10 1.5	2.364	3.337	4.1	20.9
3 22	11 4.64	− 9 20.9	2.372	3.335	5.2	20.9
4 1	10 57.25	− 8 34.3	2.408	3.333	7.6	21.1
4 11	10 51.38	− 7 46.9	2.470	3.330	10.3	21.2

282133 2001 QL_{48} 3 8.4 276°.28 0°.3/ 8.1 17

2 1	11 39.35	+ 3 17.4	2.415	3.209	12.0	21.8
2 11	11 35.11	+ 3 46.0	2.296	3.180	9.3	21.5
2 21	11 28.97	+ 4 25.9	2.201	3.150	6.0	21.3
3 2	11 21.36	+ 5 14.3	2.134	3.120	2.4	21.0
3 12	11 12.95	+ 6 6.2	2.098	3.089	1.6	20.9
3 22	11 4.55	+ 6 56.5	2.091	3.057	5.5	21.1
4 1	10 57.01	+ 7 40.1	2.112	3.025	9.2	21.2
4 11	10 51.04	+ 8 12.8	2.158	2.993	12.5	21.4

168914 2000 YU_{21} 3 8.4 32°.49 9°.2/ 1.6 18

2 1	11 40.36	+20 17.3	1.121	1.985	18.3	19.2
2 11	11 37.23	+21 59.6	1.083	2.000	14.2	19.0
2 21	11 30.78	+23 39.6	1.066	2.016	10.7	18.8
3 2	11 22.06	+25 2.3	1.071	2.033	9.2	18.8
3 12	11 12.68	+25 55.3	1.099	2.051	10.9	18.9
3 22	11 4.26	+26 12.5	1.150	2.070	14.2	19.2
4 1	10 58.13	+25 54.2	1.220	2.090	17.7	19.5
4 11	10 55.03	+25 5.4	1.307	2.111	20.8	19.7

67556 2000 SO_{79} 3 8.4 215°.80 1°.0/ 7.2 18

2 1	11 37.99	+ 6 5.8	2.631	3.433	10.9	20.1
2 11	11 33.72	+ 6 36.4	2.538	3.428	8.3	19.9
2 21	11 27.85	+ 7 14.9	2.471	3.423	5.3	19.7
3 2	11 20.82	+ 7 57.8	2.433	3.418	2.1	19.4
3 12	11 13.30	+ 8 40.4	2.424	3.413	1.9	19.4
3 22	11 5.97	+ 9 18.6	2.446	3.408	5.2	19.6
4 1	10 59.52	+ 9 48.4	2.495	3.402	8.3	19.8
4 11	10 54.50	+10 7.6	2.570	3.396	11.0	20.0

168813 2000 SC_{189} 3 8.4 85°.79 0°.7/ 8.9 18

2 1	11 44.97	+ 0 33.9	1.571	2.372	17.1	20.8
2 11	11 39.75	+ 0 53.7	1.512	2.397	13.2	20.6
2 21	11 31.99	+ 1 30.1	1.474	2.421	8.6	20.4
3 2	11 22.49	+ 2 18.7	1.461	2.445	3.6	20.1
3 12	11 12.44	+ 3 12.5	1.476	2.468	1.7	20.0
3 22	11 3.06	+ 4 4.1	1.520	2.492	6.5	20.4
4 1	10 55.41	+ 4 46.9	1.589	2.514	10.8	20.7
4 11	10 50.19	+ 5 16.7	1.681	2.536	14.5	21.0

465917 2010 VV_{194} 3 8.4 71°.42 1°.3/ 7.4 18

2 1	11 45.06	+ 7 2.2	1.647	2.463	15.7	21.6
2 11	11 39.80	+ 7 14.7	1.582	2.478	12.0	21.4
2 21	11 32.03	+ 7 36.8	1.540	2.494	7.6	21.2
3 2	11 22.52	+ 8 3.3	1.523	2.509	3.0	20.9
3 12	11 12.42	+ 8 28.0	1.535	2.525	2.6	20.9
3 22	11 2.92	+ 8 45.7	1.575	2.540	7.0	21.2
4 1	10 55.09	+ 8 52.3	1.640	2.556	11.2	21.5
4 11	10 49.64	+ 8 45.9	1.728	2.571	14.8	21.8

201461 2003 FD_{101} 3 8.4 350°.28 1°.9/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.27	+ 6 48.7	1.223	2.064	18.6	20.3
2 11	11 37.94	+ 7 11.2	1.151	2.061	14.3	20.0
2 21	11 31.41	+ 7 47.9	1.098	2.057	9.1	19.7
3 2	11 22.45	+ 8 32.4	1.068	2.055	3.7	19.4
3 12	11 12.42	+ 9 15.5	1.063	2.053	3.5	19.3
3 22	11 2.89	+ 9 48.4	1.083	2.052	9.0	19.6
4 1	10 55.33	+10 4.8	1.126	2.051	14.2	19.9
4 11	10 50.74	+10 1.5	1.188	2.051	18.7	20.2

419168 2009 TV_5 3 8.4 106°.46 1°.1/ 9.7 18

2 1	11 39.80	− 2 9.4	2.138	2.919	13.8	21.7
2 11	11 35.30	− 1 34.4	2.065	2.938	10.7	21.5
2 21	11 28.92	− 0 43.8	2.016	2.957	7.2	21.3
3 2	11 21.26	+ 0 18.8	1.994	2.975	3.3	21.1
3 12	11 13.13	+ 1 27.8	2.001	2.993	1.5	21.0
3 22	11 5.39	+ 2 36.8	2.038	3.010	5.0	21.3
4 1	10 58.82	+ 3 39.7	2.103	3.028	8.6	21.5
4 11	10 54.01	+ 4 31.9	2.194	3.044	11.8	21.7

299013 2004 XC_{136} 3 8.4 102°.42 1°.0/ 7.6 18

2 1	11 46.53	+ 5 5.2	1.723	2.529	15.6	21.7
2 11	11 40.74	+ 5 35.6	1.662	2.553	11.8	21.5
2 21	11 32.53	+ 6 17.5	1.625	2.576	7.5	21.3
3 2	11 22.70	+ 7 5.5	1.614	2.599	2.9	21.0
3 12	11 12.36	+ 7 52.6	1.632	2.622	2.3	21.0
3 22	11 2.66	+ 8 32.4	1.678	2.643	6.8	21.3
4 1	10 54.61	+ 9 0.4	1.752	2.664	10.8	21.6
4 11	10 48.88	+ 9 13.9	1.848	2.685	14.2	21.9

89497 2001 XX_{42} 3 8.4 271°.80 6°.1/ 3.0 18

2 1	11 43.90	+19 35.6	1.847	2.678	13.7	19.3
2 11	11 38.95	+20 30.4	1.775	2.674	10.7	19.1
2 21	11 31.54	+21 24.9	1.726	2.671	7.7	18.9
3 2	11 22.38	+22 10.7	1.704	2.668	6.1	18.8
3 12	11 12.51	+22 40.2	1.709	2.665	7.2	18.8
3 22	11 3.09	+22 48.5	1.741	2.662	10.1	19.0
4 1	10 55.18	+22 34.1	1.797	2.659	13.3	19.2
4 11	10 49.55	+21 58.3	1.874	2.656	16.1	19.4

498213 2007 TW_{433} 3 8.4 106°.76 0°.0/ 8.5 17

2 1	11 38.44	+ 1 50.4	2.441	3.232	12.0	22.2
2 11	11 34.07	+ 2 20.9	2.365	3.246	9.2	22.0
2 21	11 28.05	+ 3 2.4	2.314	3.261	5.9	21.9
3 2	11 20.91	+ 3 51.3	2.291	3.275	2.4	21.6
3 12	11 13.34	+ 4 42.8	2.298	3.290	1.3	21.6
3 22	11 6.09	+ 5 32.0	2.334	3.303	4.8	21.8
4 1	10 59.84	+ 6 14.6	2.400	3.317	8.1	22.1
4 11	10 55.13	+ 6 47.3	2.490	3.330	10.9	22.3

92482 2000 LQ_{13} 3 8.4 261°.98 2°.9/10.9 18

2 1	11 39.72	− 5 34.3	1.608	2.394	17.4	19.8
2 11	11 36.24	− 5 20.3	1.510	2.381	14.1	19.6
2 21	11 30.14	− 4 42.5	1.431	2.367	10.0	19.3
3 2	11 21.95	− 3 42.2	1.377	2.353	5.5	19.0
3 12	11 12.69	− 2 24.6	1.349	2.338	3.0	18.8
3 22	11 3.58	− 0 58.0	1.348	2.324	6.6	19.0
4 1	10 55.86	+ 0 27.5	1.374	2.309	11.3	19.2
4 11	10 50.50	+ 1 42.9	1.422	2.294	15.7	19.4

102975 1999 XF_{76} 3 8.4 69°.47 0°.9/ 7.7 18

2 1	11 42.27	+ 3 38.0	1.515	2.333	16.8	19.1
2 11	11 37.78	+ 4 21.2	1.459	2.356	12.7	18.9
2 21	11 30.77	+ 5 19.3	1.425	2.380	8.1	18.7
3 2	11 22.03	+ 6 25.8	1.417	2.403	3.1	18.5
3 12	11 12.76	+ 7 32.1	1.436	2.426	2.4	18.5
3 22	11 4.15	+ 8 30.2	1.482	2.450	7.2	18.8
4 1	10 57.26	+ 9 14.0	1.554	2.473	11.5	19.1
4 11	10 52.76	+ 9 40.2	1.648	2.496	15.1	19.4

111330 2001 XX_{87} 3 8.4 130°.40 0°.3/ 8.8 18

2 1	11 41.61	+ 1 4.1	2.437	3.219	12.3	20.3
2 11	11 36.44	+ 1 33.1	2.361	3.237	9.4	20.1
2 21	11 29.57	+ 2 13.4	2.310	3.254	6.1	20.0
3 2	11 21.51	+ 3 1.8	2.286	3.270	2.5	19.7
3 12	11 13.03	+ 3 53.4	2.294	3.286	1.2	19.7
3 22	11 4.89	+ 4 43.4	2.332	3.300	4.8	19.9
4 1	10 57.81	+ 5 27.1	2.398	3.315	8.1	20.2
4 11	10 52.34	+ 6 1.3	2.491	3.328	11.0	20.4

430041 2013 RK_{83} 3 8.4 277°.72 0°.3/ 8.7 17

2 1	11 45.40	+ 4 2.6	1.857	2.657	14.9	20.5
2 11	11 40.16	+ 3 48.8	1.760	2.646	11.6	20.2
2 21	11 32.43	+ 3 44.7	1.687	2.635	7.6	20.0
3 2	11 22.81	+ 3 47.8	1.639	2.624	3.2	19.7
3 12	11 12.26	+ 3 54.1	1.621	2.613	1.6	19.5
3 22	11 1.94	+ 3 59.4	1.631	2.601	6.3	19.8
4 1	10 52.98	+ 3 59.7	1.668	2.590	10.6	20.1
4 11	10 46.22	+ 3 51.8	1.729	2.579	14.4	20.3

422137 2014 QO_{426} 3 8.4 125°.23 2°.4/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.93	− 5 8.3	2.040	2.807	14.9	22.1
2 11	11 37.06	− 4 51.1	1.963	2.823	11.8	21.9
2 21	11 30.14	− 4 15.9	1.908	2.838	8.2	21.7
3 2	11 21.78	− 3 25.2	1.879	2.853	4.5	21.5
3 12	11 12.87	− 2 23.7	1.879	2.868	2.4	21.4
3 22	11 4.35	− 1 17.9	1.908	2.881	5.3	21.6
4 1	10 57.10	− 0 14.2	1.966	2.895	8.9	21.9
4 11	10 51.74	+ 0 41.4	2.049	2.907	12.2	22.1

451456 2011 SS_{247} 3 8.4 144°.07 1°.8/ 6.8 18

2 1	11 45.94	+ 7 32.7	2.039	2.842	13.6	21.6
2 11	11 40.08	+ 8 10.5	1.966	2.856	10.3	21.4
2 21	11 32.06	+ 8 56.9	1.917	2.869	6.5	21.2
3 2	11 22.54	+ 9 46.5	1.896	2.881	2.7	21.0
3 12	11 12.46	+10 33.1	1.906	2.892	2.8	21.0
3 22	11 2.83	+11 11.1	1.945	2.903	6.6	21.3
4 1	10 54.57	+11 36.5	2.011	2.912	10.2	21.5
4 11	10 48.35	+11 47.4	2.102	2.921	13.4	21.7

313659 2003 SE_{184} 3 8.4 171°.20 0°.2/ 8.3 17

2 1	11 43.06	+ 2 37.1	2.073	2.866	13.8	22.5
2 11	11 37.97	+ 3 8.1	1.988	2.871	10.6	22.3
2 21	11 30.78	+ 3 51.7	1.926	2.874	6.8	22.0
3 2	11 22.07	+ 4 44.0	1.892	2.877	2.7	21.8
3 12	11 12.71	+ 5 39.2	1.888	2.879	1.6	21.7
3 22	11 3.66	+ 6 31.2	1.913	2.880	5.8	22.0
4 1	10 55.84	+ 7 14.6	1.966	2.881	9.7	22.2
4 11	10 49.94	+ 7 45.7	2.044	2.881	13.0	22.4

183354 2002 VW_{119} 3 8.4 150°.49 5°.5/14.3 18

2 1	11 42.95	−14 19.0	2.360	3.065	14.7	19.7
2 11	11 37.72	−14 42.0	2.270	3.075	12.4	19.6
2 21	11 30.54	−14 45.3	2.201	3.085	9.7	19.4
3 2	11 21.96	−14 28.2	2.157	3.094	7.2	19.2
3 12	11 12.77	−13 52.3	2.141	3.102	5.6	19.2
3 22	11 3.84	−13 1.4	2.154	3.110	6.2	19.2
4 1	10 56.01	−12 1.5	2.195	3.117	8.4	19.4
4 11	10 49.93	−10 59.1	2.262	3.123	11.1	19.5

5690 1992 EU 3 8.5 38°.21 7°.5/ 6.2 18

2 1	12 10.20	+25 3.5	1.280	2.089	19.8	16.2
2 11	11 58.73	+24 38.1	1.245	2.128	15.5	16.1
2 21	11 43.76	+23 59.5	1.232	2.169	11.1	15.9
3 2	11 26.92	+23 0.1	1.245	2.210	7.9	15.9
3 12	11 10.32	+21 37.1	1.288	2.251	8.2	16.0
3 22	10 55.82	+19 54.4	1.359	2.293	11.3	16.3
4 1	10 44.64	+17 58.8	1.456	2.335	14.8	16.6
4 11	10 37.24	+15 57.0	1.576	2.377	17.9	16.9

342868 2008 YJ_{35} 3 8.5 344°.62 5°.3/ 2.3 17

2 1	11 36.69	+16 34.4	2.012	2.849	12.5	20.7
2 11	11 33.29	+18 0.5	1.940	2.846	9.5	20.5
2 21	11 27.84	+19 30.3	1.894	2.844	6.7	20.4
3 2	11 20.91	+20 55.4	1.874	2.842	5.3	20.3
3 12	11 13.36	+22 7.6	1.883	2.840	6.6	20.3
3 22	11 6.12	+23 0.4	1.918	2.838	9.4	20.5
4 1	11 0.08	+23 30.5	1.978	2.837	12.4	20.7
4 11	10 55.91	+23 37.6	2.059	2.836	15.0	20.9

136932 1998 OB_7 3 8.5 252°.49 2°.9/11.0 17

2 1	11 42.51	− 5 11.3	2.088	2.852	14.7	20.6
2 11	11 37.86	− 5 14.0	1.973	2.831	11.9	20.4
2 21	11 30.95	− 4 59.7	1.881	2.809	8.5	20.1
3 2	11 22.24	− 4 29.0	1.814	2.786	4.9	19.8
3 12	11 12.57	− 3 44.9	1.776	2.763	2.9	19.7
3 22	11 2.91	− 2 52.4	1.767	2.739	5.7	19.8
4 1	10 54.30	− 1 57.8	1.786	2.715	9.6	20.0
4 11	10 47.60	− 1 7.5	1.830	2.689	13.4	20.1

338311 2002 VJ_{31} 3 8.5 168°.89 4°.0/13.8 17

2 1	11 37.45	−12 36.5	2.820	3.534	12.3	21.4
2 11	11 33.25	−12 32.3	2.722	3.537	10.3	21.3
2 21	11 27.54	−12 11.1	2.646	3.541	7.9	21.1
3 2	11 20.74	−11 33.4	2.596	3.543	5.5	21.0
3 12	11 13.47	−10 41.4	2.575	3.546	4.0	20.9
3 22	11 6.38	− 9 39.2	2.584	3.548	4.8	20.9
4 1	11 0.12	− 8 31.8	2.622	3.549	7.0	21.1
4 11	10 55.21	− 7 24.7	2.687	3.550	9.4	21.2

207492 2006 HT_{61} 3 8.5 301°.63 0°.6/ 8.9 18

2 1	11 38.49	+ 0 12.1	1.423	2.241	17.7	20.8
2 11	11 35.58	+ 0 37.4	1.332	2.227	13.9	20.6
2 21	11 29.84	+ 1 24.0	1.261	2.212	9.2	20.2
3 2	11 21.88	+ 2 28.1	1.214	2.198	4.0	19.9
3 12	11 12.78	+ 3 42.1	1.192	2.184	1.9	19.7
3 22	11 3.88	+ 4 56.4	1.197	2.171	7.4	20.0
4 1	10 56.54	+ 6 1.3	1.225	2.158	12.7	20.3
4 11	10 51.78	+ 6 49.5	1.275	2.145	17.3	20.5

140477 2001 TM_{137} 3 8.5 170°.71 4°.5/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 39.11	+18 49.3	2.688	3.509	10.2	20.3
2 11	11 34.57	+19 54.0	2.616	3.512	7.8	20.2
2 21	11 28.39	+20 59.1	2.571	3.514	5.6	20.0
3 2	11 21.07	+21 58.5	2.554	3.516	4.5	20.0
3 12	11 13.30	+22 46.7	2.567	3.518	5.5	20.0
3 22	11 5.80	+23 19.9	2.608	3.519	7.6	20.2
4 1	10 59.27	+23 35.9	2.676	3.520	10.0	20.3
4 11	10 54.23	+23 34.6	2.766	3.521	12.1	20.5

274507 2008 SP_{147} 3 8.5 282°.17 2°.8/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.71	− 4 20.6	1.975	2.752	14.9	20.6
2 11	11 35.68	− 4 28.3	1.878	2.743	12.0	20.4
2 21	11 29.47	− 4 19.4	1.802	2.734	8.5	20.1
3 2	11 21.61	− 3 54.9	1.752	2.725	4.8	19.9
3 12	11 12.96	− 3 18.1	1.729	2.717	2.8	19.8
3 22	11 4.49	− 2 34.2	1.735	2.708	5.6	19.9
4 1	10 57.18	− 1 49.2	1.767	2.700	9.4	20.1
4 11	10 51.80	− 1 9.1	1.824	2.691	13.0	20.3

361666 2007 TF_{419} 3 8.5 157°.44 0°.3/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.66	+ 1 49.0	1.730	2.537	15.5	21.4
2 11	11 36.54	+ 2 31.6	1.650	2.540	11.9	21.1
2 21	11 30.06	+ 3 30.6	1.592	2.543	7.7	20.9
3 2	11 21.84	+ 4 41.3	1.560	2.546	3.0	20.6
3 12	11 12.87	+ 5 55.8	1.557	2.548	1.9	20.5
3 22	11 4.27	+ 7 6.1	1.581	2.551	6.6	20.8
4 1	10 57.08	+ 8 5.1	1.632	2.552	11.0	21.1
4 11	10 52.06	+ 8 47.9	1.706	2.554	14.7	21.3

292693 2006 UZ_{110} 3 8.5 55°.96 3°.8/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.36	− 7 49.6	1.457	2.239	19.1	20.5
2 11	11 36.45	− 7 37.7	1.400	2.266	15.3	20.4
2 21	11 29.98	− 6 59.8	1.363	2.293	10.9	20.2
3 2	11 21.75	− 5 58.6	1.348	2.320	6.4	20.0
3 12	11 12.97	− 4 40.9	1.360	2.347	3.8	19.9
3 22	11 4.84	− 3 16.2	1.399	2.374	6.4	20.1
4 1	10 58.43	− 1 54.4	1.463	2.402	10.5	20.4
4 11	10 54.44	− 0 43.5	1.551	2.429	14.3	20.7

41720 2000 UN_{79} 3 8.5 60°.66 4°.4/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.26	− 7 58.9	1.501	2.281	18.7	18.7
2 11	11 36.58	− 8 7.3	1.425	2.288	15.2	18.5
2 21	11 30.25	− 7 50.9	1.368	2.295	11.1	18.3
3 2	11 21.95	− 7 10.3	1.334	2.303	6.9	18.1
3 12	11 12.81	− 6 10.1	1.326	2.310	4.4	17.9
3 22	11 4.10	− 4 58.2	1.344	2.318	6.8	18.1
4 1	10 57.00	− 3 44.0	1.387	2.326	10.9	18.3
4 11	10 52.36	− 2 36.8	1.453	2.334	14.9	18.6

57716 2001 UY_{126} 3 8.5 63°.26 1°.1/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.18	+ 4 55.6	2.142	2.953	12.8	19.4
2 11	11 33.34	+ 5 43.4	2.075	2.969	9.6	19.2
2 21	11 27.69	+ 6 41.6	2.032	2.985	6.1	19.0
3 2	11 20.80	+ 7 45.3	2.016	3.002	2.4	18.8
3 12	11 13.48	+ 8 48.1	2.029	3.018	2.2	18.8
3 22	11 6.52	+ 9 44.2	2.072	3.035	5.8	19.1
4 1	11 0.69	+10 28.9	2.141	3.052	9.2	19.3
4 11	10 56.55	+10 59.5	2.235	3.068	12.2	19.5

93626 2000 UV_{73} 3 8.5 139°.85 4°.1/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.07	−11 35.9	2.331	3.061	14.2	21.1
2 11	11 34.75	−11 27.9	2.243	3.071	11.7	20.9
2 21	11 28.62	−11 0.0	2.176	3.081	8.9	20.7
3 2	11 21.20	−10 13.1	2.135	3.090	6.0	20.6
3 12	11 13.24	− 9 10.2	2.123	3.099	4.2	20.5
3 22	11 5.56	− 7 56.8	2.139	3.107	5.3	20.5
4 1	10 58.92	− 6 39.4	2.184	3.115	8.0	20.7
4 11	10 53.94	− 5 24.6	2.255	3.122	10.9	20.9

488565 2001 WU_{10} 3 8.5 115°.71 5°.2/15.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.09	−17 24.7	2.780	3.464	13.1	22.0
2 11	11 32.98	−17 24.2	2.692	3.480	11.2	21.9
2 21	11 27.34	−17 4.5	2.626	3.495	8.9	21.7
3 2	11 20.65	−16 25.2	2.584	3.509	6.8	21.6
3 12	11 13.55	−15 28.6	2.570	3.524	5.3	21.5
3 22	11 6.69	−14 18.7	2.585	3.538	5.5	21.6
4 1	11 0.72	−13 0.9	2.629	3.551	7.2	21.7
4 11	10 56.14	−11 41.5	2.699	3.565	9.3	21.8

205749 2002 CW_{18} 3 8.5 118°.87 4°.3/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.74	+13 16.7	1.627	2.455	15.4	19.9
2 11	11 40.47	+14 9.2	1.564	2.466	11.7	19.6
2 21	11 32.56	+15 7.1	1.523	2.477	7.7	19.4
3 2	11 22.81	+16 2.1	1.508	2.487	4.6	19.3
3 12	11 12.39	+16 45.7	1.521	2.497	5.5	19.3
3 22	11 2.56	+17 11.8	1.561	2.506	9.2	19.6
4 1	10 54.47	+17 17.4	1.627	2.515	13.0	19.8
4 11	10 48.86	+17 2.7	1.713	2.524	16.3	20.1

500277 2012 PQ_2 3 8.5 109°.41 0°.3/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 36.83	− 0 0.8	2.364	3.154	12.4	22.0
2 11	11 32.95	+ 0 46.3	2.286	3.165	9.5	21.8
2 21	11 27.40	+ 1 46.9	2.231	3.177	6.2	21.6
3 2	11 20.69	+ 2 57.1	2.204	3.188	2.6	21.4
3 12	11 13.53	+ 4 11.2	2.207	3.199	1.2	21.3
3 22	11 6.66	+ 5 23.3	2.240	3.210	4.9	21.6
4 1	11 0.78	+ 6 27.8	2.301	3.220	8.3	21.8
4 11	10 56.43	+ 7 20.7	2.388	3.231	11.2	22.0

466377 2013 RQ_{96} 3 8.5 220°.90 3°.1/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.16	− 6 26.0	2.124	2.885	14.5	22.3
2 11	11 35.87	− 6 25.1	2.025	2.879	11.7	22.0
2 21	11 29.52	− 6 6.5	1.947	2.872	8.5	21.8
3 2	11 21.62	− 5 31.0	1.896	2.865	5.0	21.6
3 12	11 12.99	− 4 42.1	1.872	2.858	3.1	21.5
3 22	11 4.53	− 3 45.1	1.878	2.850	5.4	21.6
4 1	10 57.16	− 2 46.2	1.911	2.842	8.9	21.8
4 11	10 51.61	− 1 51.7	1.970	2.834	12.3	22.0

432470 2010 DU_{11} 3 8.5 85°.50 1°.3/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.02	− 2 47.7	2.138	2.921	13.7	21.3
2 11	11 33.29	− 2 12.3	2.059	2.932	10.7	21.1
2 21	11 27.71	− 1 20.5	2.003	2.943	7.2	20.9
3 2	11 20.84	− 0 15.7	1.974	2.954	3.5	20.7
3 12	11 13.47	+ 0 56.7	1.973	2.965	1.5	20.5
3 22	11 6.41	+ 2 10.0	2.002	2.976	5.0	20.8
4 1	11 0.45	+ 3 18.0	2.059	2.986	8.6	21.0
4 11	10 56.18	+ 4 15.4	2.141	2.997	11.8	21.3

57160 2001 QW_{15} 3 8.5 130°.09 1°.0/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.70	+ 5 25.8	2.105	2.907	13.3	19.6
2 11	11 37.57	+ 5 58.8	2.031	2.920	10.1	19.4
2 21	11 30.45	+ 6 41.7	1.981	2.933	6.4	19.2
3 2	11 21.92	+ 7 29.8	1.960	2.945	2.5	19.0
3 12	11 12.88	+ 8 17.3	1.967	2.957	2.1	19.0
3 22	11 4.24	+ 8 58.8	2.005	2.968	6.0	19.2
4 1	10 56.85	+ 9 30.0	2.070	2.979	9.6	19.5
4 11	10 51.33	+ 9 48.3	2.159	2.989	12.7	19.7

301993 2000 QB_{41} 3 8.5 152°.14 0°.9/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.48	− 0 44.1	1.990	2.773	14.6	21.7
2 11	11 38.35	− 0 18.3	1.909	2.783	11.4	21.5
2 21	11 31.05	+ 0 23.1	1.850	2.793	7.6	21.3
3 2	11 22.20	+ 1 16.5	1.819	2.801	3.4	21.1
3 12	11 12.72	+ 2 16.4	1.817	2.809	1.5	20.9
3 22	11 3.61	+ 3 16.2	1.844	2.815	5.6	21.2
4 1	10 55.80	+ 4 9.9	1.900	2.821	9.6	21.5
4 11	10 49.98	+ 4 52.5	1.979	2.827	13.0	21.7

249076 2007 UE_{115} 3 8.5 175°.32 4°.2/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.86	+17 21.3	2.541	3.360	10.7	21.2
2 11	11 35.96	+18 9.9	2.466	3.362	8.2	21.1
2 21	11 29.32	+18 59.3	2.416	3.363	5.7	20.9
3 2	11 21.47	+19 43.9	2.395	3.364	4.2	20.8
3 12	11 13.14	+20 18.4	2.403	3.364	5.1	20.9
3 22	11 5.11	+20 38.9	2.440	3.365	7.4	21.0
4 1	10 58.12	+20 43.5	2.504	3.365	10.0	21.2
4 11	10 52.74	+20 32.0	2.591	3.364	12.4	21.3

349029 2006 VN_{31} 3 8.5 190°.35 2°.3/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.86	− 6 16.2	2.523	3.282	12.5	21.4
2 11	11 32.22	− 5 54.3	2.427	3.282	10.0	21.3
2 21	11 26.96	− 5 16.5	2.355	3.281	7.1	21.1
3 2	11 20.55	− 4 24.4	2.309	3.281	4.1	20.9
3 12	11 13.62	− 3 21.9	2.293	3.280	2.3	20.7
3 22	11 6.89	− 2 14.1	2.306	3.279	4.4	20.9
4 1	11 1.05	− 1 6.6	2.348	3.278	7.5	21.1
4 11	10 56.64	− 0 4.8	2.416	3.277	10.4	21.3

308146 2005 AA_{13} 3 8.5 73°.82 1°.7/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.61	+ 5 53.5	1.450	2.274	17.1	21.2
2 11	11 38.97	+ 6 34.6	1.393	2.293	12.9	21.0
2 21	11 31.63	+ 7 28.9	1.357	2.313	8.2	20.8
3 2	11 22.44	+ 8 29.3	1.347	2.333	3.2	20.5
3 12	11 12.64	+ 9 27.0	1.363	2.352	3.1	20.5
3 22	11 3.53	+10 14.2	1.407	2.372	7.8	20.9
4 1	10 56.24	+10 45.5	1.476	2.391	12.2	21.2
4 11	10 51.50	+10 58.4	1.566	2.410	16.0	21.5

361612 2007 TO_{30} 3 8.5 97°.74 1°.2/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.88	+ 5 1.8	1.677	2.489	15.7	21.5
2 11	11 38.87	+ 5 40.8	1.614	2.509	11.9	21.3
2 21	11 31.44	+ 6 32.2	1.574	2.528	7.5	21.0
3 2	11 22.34	+ 7 30.2	1.560	2.546	2.9	20.8
3 12	11 12.68	+ 8 27.2	1.575	2.564	2.5	20.8
3 22	11 3.60	+ 9 16.0	1.617	2.582	7.0	21.1
4 1	10 56.11	+ 9 51.4	1.686	2.599	11.1	21.4
4 11	10 50.92	+10 10.8	1.777	2.616	14.6	21.7

405168 2002 VL_{46} 3 8.5 123°.00 7°.7/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 45.63	+24 32.0	1.927	2.753	13.4	21.0
2 11	11 40.10	+25 55.2	1.875	2.766	10.7	20.9
2 21	11 32.18	+27 13.4	1.848	2.779	8.5	20.7
3 2	11 22.63	+28 16.9	1.848	2.791	7.7	20.7
3 12	11 12.54	+28 58.2	1.875	2.802	8.9	20.8
3 22	11 3.05	+29 13.3	1.928	2.814	11.2	21.0
4 1	10 55.17	+29 1.9	2.004	2.825	13.8	21.2
4 11	10 49.57	+28 27.1	2.100	2.835	16.0	21.3

251737 1998 QK_{62} 3 8.5 172°.12 1°.8/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.50	− 3 35.2	2.297	3.063	13.4	22.3
2 11	11 36.63	− 3 14.8	2.205	3.068	10.6	22.1
2 21	11 29.86	− 2 38.8	2.137	3.071	7.3	21.9
3 2	11 21.73	− 1 49.7	2.097	3.074	3.7	21.7
3 12	11 13.00	− 0 51.6	2.086	3.076	1.9	21.6
3 22	11 4.52	+ 0 9.7	2.105	3.077	4.9	21.8
4 1	10 57.11	+ 1 8.5	2.153	3.077	8.4	22.0
4 11	10 51.40	+ 1 59.8	2.226	3.077	11.6	22.2

237052 2008 SN_{135} 3 8.5 107°.88 1°.5/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.93	+ 3 38.4	1.442	2.265	17.2	20.8
2 11	11 37.13	+ 4 43.0	1.373	2.274	13.1	20.5
2 21	11 30.61	+ 6 6.0	1.326	2.282	8.3	20.3
3 2	11 22.11	+ 7 39.8	1.303	2.290	3.2	20.0
3 12	11 12.82	+ 9 13.4	1.308	2.297	3.1	20.0
3 22	11 4.03	+10 36.6	1.340	2.305	8.1	20.3
4 1	10 56.94	+11 41.1	1.396	2.312	12.8	20.6
4 11	10 52.38	+12 22.9	1.474	2.319	16.7	20.9

414750 2010 FV_{73} 3 8.5 273°.89 3°.1/10.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.41	− 4 38.2	1.669	2.453	17.0	21.8
2 11	11 37.60	− 4 41.2	1.561	2.431	13.7	21.5
2 21	11 31.11	− 4 23.6	1.474	2.409	9.8	21.2
3 2	11 22.44	− 3 45.9	1.410	2.386	5.5	20.9
3 12	11 12.55	− 2 51.9	1.374	2.363	3.1	20.7
3 22	11 2.68	− 1 48.3	1.364	2.339	6.7	20.8
4 1	10 54.10	− 0 43.4	1.381	2.315	11.4	21.0
4 11	10 47.86	+ 0 14.5	1.420	2.291	15.8	21.2

499984 2011 MG_{6} 3 8.5 193°.64 5°.1/14.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.85	−14 25.0	2.672	3.376	13.2	21.2
2 11	11 34.49	−14 46.0	2.571	3.374	11.2	21.1
2 21	11 28.45	−14 49.7	2.491	3.373	8.8	20.9
3 2	11 21.17	−14 35.3	2.436	3.370	6.6	20.8
3 12	11 13.32	−14 4.0	2.408	3.368	5.2	20.7
3 22	11 5.62	−13 19.1	2.410	3.365	5.7	20.7
4 1	10 58.78	−12 25.3	2.440	3.362	7.7	20.8
4 11	10 53.41	−11 28.3	2.495	3.359	10.1	21.0

83128 2001 QV_{256} 3 8.5 103°.05 3°.1/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.80	+13 31.2	2.322	3.139	11.7	18.9
2 11	11 36.76	+14 2.4	2.249	3.146	8.9	18.7
2 21	11 29.86	+14 36.5	2.202	3.154	5.8	18.6
3 2	11 21.70	+15 8.5	2.182	3.162	3.4	18.4
3 12	11 13.07	+15 33.1	2.193	3.169	4.0	18.5
3 22	11 4.81	+15 46.7	2.232	3.176	6.8	18.7
4 1	10 57.70	+15 46.9	2.298	3.184	9.8	18.9
4 11	10 52.33	+15 33.2	2.387	3.191	12.5	19.1

419371 2009 XJ_{13} 3 8.5 112°.82 2°.7/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.93	+10 14.4	1.958	2.779	13.4	21.4
2 11	11 36.48	+10 56.4	1.882	2.783	10.1	21.1
2 21	11 29.88	+11 45.6	1.831	2.786	6.5	20.9
3 2	11 21.76	+12 35.9	1.806	2.789	3.2	20.7
3 12	11 13.02	+13 20.8	1.810	2.792	3.8	20.8
3 22	11 4.66	+13 54.5	1.842	2.795	7.3	21.0
4 1	10 57.60	+14 13.3	1.900	2.799	10.9	21.2
4 11	10 52.50	+14 15.7	1.981	2.802	14.0	21.4

30277 Charlesgulian 3 8.5 119°.07 2°.7/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.41	− 5 6.6	1.632	2.414	17.4	18.7
2 11	11 37.96	− 4 50.2	1.558	2.426	13.8	18.5
2 21	11 31.01	− 4 11.8	1.503	2.438	9.6	18.3
3 2	11 22.25	− 3 13.8	1.474	2.450	5.2	18.0
3 12	11 12.76	− 2 2.6	1.471	2.461	2.7	17.9
3 22	11 3.72	− 0 46.2	1.497	2.472	6.2	18.1
4 1	10 56.24	+ 0 26.6	1.549	2.482	10.5	18.4
4 11	10 51.09	+ 1 28.5	1.625	2.492	14.4	18.6

128911 2004 TX_{51} 3 8.5 169°.42 1°.1/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.55	− 1 6.1	2.240	3.022	13.2	21.0
2 11	11 35.20	− 0 45.9	2.151	3.025	10.3	20.8
2 21	11 28.97	− 0 11.7	2.086	3.027	6.9	20.6
3 2	11 21.39	+ 0 33.7	2.047	3.029	3.2	20.4
3 12	11 13.22	+ 1 25.8	2.038	3.030	1.4	20.2
3 22	11 5.32	+ 2 19.1	2.059	3.031	5.0	20.5
4 1	10 58.47	+ 3 8.2	2.107	3.032	8.6	20.7
4 11	10 53.31	+ 3 48.6	2.181	3.032	11.8	20.9

45536 2000 CK_{27} 3 8.5 246°.78 0°.5/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 34.57	+ 3 15.4	2.780	3.578	10.5	19.2
2 11	11 31.10	+ 4 1.1	2.687	3.573	8.0	19.0
2 21	11 26.19	+ 4 56.8	2.619	3.569	5.1	18.8
3 2	11 20.25	+ 5 59.0	2.579	3.565	2.0	18.6
3 12	11 13.85	+ 7 3.0	2.570	3.561	1.5	18.5
3 22	11 7.63	+ 8 3.9	2.591	3.556	4.7	18.7
4 1	11 2.18	+ 8 57.3	2.641	3.552	7.7	18.9
4 11	10 58.01	+ 9 40.0	2.715	3.548	10.3	19.1

163499 2002 SE_{41} 3 8.5 65°.35 2°.6/ 5.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.11	+ 9 57.3	2.013	2.834	13.1	19.6
2 11	11 35.61	+10 46.4	1.957	2.857	9.8	19.5
2 21	11 29.16	+11 42.0	1.925	2.880	6.2	19.3
3 2	11 21.42	+12 37.8	1.920	2.903	3.1	19.1
3 12	11 13.26	+13 27.5	1.944	2.926	3.7	19.2
3 22	11 5.60	+14 5.7	1.996	2.948	6.9	19.5
4 1	10 59.23	+14 29.1	2.075	2.971	10.2	19.7
4 11	10 54.73	+14 36.6	2.177	2.994	13.0	19.9

54229 2000 JA_{13} 3 8.5 126°.06 6°.4/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.58	+21 46.9	2.070	2.892	12.7	19.1
2 11	11 39.86	+22 55.3	2.014	2.907	10.0	19.0
2 21	11 31.95	+24 0.9	1.983	2.920	7.5	18.9
3 2	11 22.55	+24 55.6	1.979	2.933	6.4	18.8
3 12	11 12.66	+25 32.4	2.004	2.946	7.4	18.9
3 22	11 3.32	+25 47.5	2.056	2.958	9.8	19.1
4 1	10 55.45	+25 40.0	2.132	2.970	12.4	19.2
4 11	10 49.68	+25 11.9	2.230	2.981	14.8	19.4

459918 2014 MT_{38} 3 8.5 188°.43 4°.9/ 3.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.08	+15 40.2	2.053	2.875	12.9	21.7
2 11	11 38.90	+16 55.9	1.976	2.874	9.8	21.5
2 21	11 31.48	+18 15.8	1.924	2.873	6.8	21.3
3 2	11 22.43	+19 31.8	1.900	2.871	4.9	21.2
3 12	11 12.69	+20 35.6	1.905	2.868	6.1	21.3
3 22	11 3.28	+21 21.3	1.939	2.864	9.0	21.4
4 1	10 55.18	+21 45.5	1.998	2.860	12.2	21.6
4 11	10 49.12	+21 48.1	2.079	2.854	15.0	21.8

17276 2000 LU_{22} 3 8.5 104°.95 3°.9/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.11	−12 48.0	2.863	3.574	12.2	18.7
2 11	11 33.63	−12 42.6	2.784	3.597	10.1	18.6
2 21	11 27.72	−12 20.5	2.727	3.620	7.7	18.4
3 2	11 20.83	−11 42.6	2.696	3.642	5.4	18.3
3 12	11 13.60	−10 51.6	2.695	3.664	3.9	18.2
3 22	11 6.63	− 9 51.3	2.723	3.686	4.6	18.3
4 1	11 0.55	− 8 46.8	2.780	3.707	6.7	18.5
4 11	10 55.80	− 7 43.3	2.865	3.727	9.0	18.6

309032 2006 UT_{172} 3 8.5 10°.96 1°.9/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.60	+ 6 30.2	1.287	2.129	17.8	20.4
2 11	11 35.67	+ 7 0.3	1.221	2.131	13.6	20.2
2 21	11 29.83	+ 7 44.5	1.174	2.134	8.6	19.9
3 2	11 21.86	+ 8 36.2	1.151	2.138	3.5	19.6
3 12	11 13.04	+ 9 26.2	1.154	2.143	3.4	19.6
3 22	11 4.75	+10 5.9	1.181	2.149	8.5	19.9
4 1	10 58.29	+10 29.1	1.231	2.156	13.4	20.2
4 11	10 54.51	+10 32.8	1.302	2.164	17.5	20.5

110565 2001 TH_{112} 3 8.5 181°.68 2°.6/11.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.48	− 6 31.4	2.445	3.196	13.1	20.8
2 11	11 35.80	− 6 18.7	2.349	3.198	10.5	20.6
2 21	11 29.33	− 5 49.8	2.275	3.198	7.5	20.5
3 2	11 21.55	− 5 6.1	2.228	3.198	4.4	20.3
3 12	11 13.20	− 4 11.2	2.211	3.197	2.6	20.1
3 22	11 5.04	− 3 10.0	2.224	3.196	4.7	20.3
4 1	10 57.87	− 2 8.1	2.266	3.193	7.9	20.5
4 11	10 52.28	− 1 11.1	2.334	3.190	10.9	20.6

257174 2008 JX_{18} 3 8.5 60°.81 7°.0/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 47.81	+20 59.9	1.565	2.398	15.6	20.3
2 11	11 42.12	+21 48.6	1.512	2.412	12.2	20.1
2 21	11 33.63	+22 33.8	1.482	2.426	8.9	20.0
3 2	11 23.26	+23 6.4	1.476	2.440	7.0	19.9
3 12	11 12.33	+23 18.4	1.498	2.454	8.1	20.0
3 22	11 2.21	+23 6.3	1.545	2.468	11.0	20.2
4 1	10 54.05	+22 30.2	1.616	2.483	14.3	20.4
4 11	10 48.56	+21 33.6	1.707	2.497	17.2	20.7

403894 2011 WG_{152} 3 8.5 180°.26 3°.4/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.62	− 6 14.2	1.983	2.741	15.5	22.3
2 11	11 39.39	− 6 22.2	1.890	2.743	12.5	22.1
2 21	11 31.86	− 6 12.3	1.820	2.744	9.0	21.9
3 2	11 22.63	− 5 45.0	1.775	2.744	5.4	21.7
3 12	11 12.60	− 5 3.7	1.758	2.744	3.4	21.5
3 22	11 2.84	− 4 13.6	1.771	2.742	5.8	21.7
4 1	10 54.36	− 3 21.4	1.812	2.740	9.5	21.9
4 11	10 47.93	− 2 33.3	1.877	2.738	13.0	22.1

264633 2001 WE_{53} 3 8.5 93°.60 0°.0/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 42.42	+ 2 15.1	1.922	2.720	14.5	21.8
2 11	11 37.48	+ 2 42.4	1.856	2.741	11.1	21.6
2 21	11 30.45	+ 3 22.5	1.813	2.761	7.2	21.4
3 2	11 21.97	+ 4 11.3	1.797	2.781	2.9	21.2
3 12	11 13.01	+ 5 2.5	1.810	2.801	1.5	21.1
3 22	11 4.53	+ 5 50.3	1.852	2.821	5.8	21.4
4 1	10 57.42	+ 6 29.5	1.921	2.840	9.6	21.7
4 11	10 52.30	+ 6 56.5	2.014	2.859	12.9	22.0

150913 2001 TV_{31} 3 8.5 173°.37 3°.7/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.02	+14 56.1	2.322	3.135	11.9	20.4
2 11	11 39.27	+15 37.2	2.244	3.138	9.0	20.2
2 21	11 31.54	+16 20.7	2.191	3.141	6.0	20.1
3 2	11 22.42	+17 0.9	2.167	3.143	3.8	19.9
3 12	11 12.75	+17 32.0	2.173	3.144	4.6	20.0
3 22	11 3.44	+17 49.9	2.208	3.145	7.4	20.1
4 1	10 55.33	+17 52.2	2.271	3.145	10.4	20.3
4 11	10 49.05	+17 38.9	2.357	3.145	13.1	20.5

73024 2002 EV_{72} 3 8.5 284°.51 0°.9/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.66	− 0 26.4	1.566	2.373	16.8	19.4
2 11	11 36.31	− 0 5.3	1.468	2.356	13.3	19.2
2 21	11 30.28	+ 0 35.6	1.391	2.339	8.9	18.9
3 2	11 22.12	+ 1 33.5	1.338	2.322	4.0	18.5
3 12	11 12.84	+ 2 41.8	1.312	2.304	1.8	18.3
3 22	11 3.70	+ 3 52.0	1.313	2.287	7.0	18.6
4 1	10 55.96	+ 4 55.2	1.339	2.269	12.0	18.8
4 11	10 50.63	+ 5 44.3	1.387	2.252	16.4	19.1

434878 2006 SS_{343} 3 8.5 72°.15 3°.2/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.22	− 8 22.6	2.354	3.106	13.5	21.5
2 11	11 32.59	− 8 11.4	2.267	3.114	10.9	21.3
2 21	11 27.26	− 7 42.5	2.202	3.121	8.0	21.1
3 2	11 20.72	− 6 57.3	2.163	3.128	5.0	21.0
3 12	11 13.67	− 5 59.4	2.153	3.136	3.2	20.9
3 22	11 6.88	− 4 54.0	2.171	3.143	4.8	21.0
4 1	11 1.06	− 3 47.0	2.218	3.151	7.8	21.2
4 11	10 56.79	− 2 44.2	2.290	3.158	10.7	21.4

166813 2002 VK_{82} 3 8.5 71°.20 9°.1/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.36	−27 17.4	2.316	2.941	16.8	19.8
2 11	11 33.69	−27 47.4	2.233	2.955	15.0	19.6
2 21	11 28.07	−27 50.7	2.166	2.969	13.1	19.5
3 2	11 21.07	−27 24.5	2.119	2.983	11.1	19.4
3 12	11 13.48	−26 29.2	2.096	2.997	9.6	19.3
3 22	11 6.19	−25 8.4	2.097	3.011	9.1	19.3
4 1	11 0.05	−23 29.0	2.125	3.025	9.8	19.4
4 11	10 55.67	−21 39.8	2.178	3.039	11.4	19.5

377906 2006 DZ_{163} 3 8.5 94°.39 0°.9/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.87	+ 0 44.2	1.996	2.790	14.2	21.0
2 11	11 36.44	+ 0 49.1	1.911	2.791	11.1	20.8
2 21	11 29.89	+ 1 7.0	1.848	2.793	7.4	20.6
3 2	11 21.81	+ 1 35.3	1.811	2.794	3.3	20.3
3 12	11 13.07	+ 2 9.4	1.803	2.795	1.5	20.2
3 22	11 4.63	+ 2 44.3	1.824	2.796	5.5	20.5
4 1	10 57.41	+ 3 14.8	1.872	2.798	9.4	20.7
4 11	10 52.10	+ 3 36.8	1.944	2.799	12.9	20.9

3497 Innanen 3 8.5 315°.42 0°.8/ 7.7 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 34.78	+ 1 29.0	1.660	2.478	15.5	16.0
2 11	11 32.33	+ 2 33.5	1.566	2.464	12.0	15.8
2 21	11 27.55	+ 3 58.7	1.495	2.450	7.7	15.5
3 2	11 20.97	+ 5 39.1	1.450	2.436	3.0	15.1
3 12	11 13.50	+ 7 25.3	1.432	2.423	2.3	15.1
3 22	11 6.23	+ 9 7.1	1.441	2.410	7.2	15.3
4 1	11 0.23	+10 34.8	1.477	2.397	11.9	15.6
4 11	10 56.35	+11 41.9	1.534	2.385	15.9	15.8

190113 2004 UX_{2} 3 8.5 180°.21 2°.6/ 5.3 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.34	+ 9 44.4	2.406	3.219	11.5	21.0
2 11	11 34.94	+10 48.7	2.323	3.220	8.7	20.9
2 21	11 28.77	+12 0.6	2.267	3.221	5.5	20.7
3 2	11 21.33	+13 14.2	2.239	3.221	2.9	20.5
3 12	11 13.35	+14 23.1	2.241	3.220	3.6	20.5
3 22	11 5.63	+15 21.6	2.273	3.220	6.6	20.7
4 1	10 58.90	+16 5.7	2.333	3.218	9.7	20.9
4 11	10 53.77	+16 33.3	2.416	3.216	12.4	21.1

186200 2001 VJ_{124} 3 8.5 165°.54 2°.1/ 6.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.88	+ 8 31.1	2.130	2.941	12.8	21.3
2 11	11 37.05	+ 9 13.2	2.050	2.945	9.7	21.1
2 21	11 30.21	+10 3.3	1.995	2.948	6.2	20.9
3 2	11 21.92	+10 56.2	1.967	2.951	2.8	20.7
3 12	11 13.04	+11 45.7	1.969	2.954	3.1	20.7
3 22	11 4.50	+12 26.1	2.000	2.956	6.6	21.0
4 1	10 57.14	+12 53.6	2.058	2.958	10.1	21.2
4 11	10 51.64	+13 6.0	2.140	2.959	13.2	21.4

19687 1999 RP_{199} 3 8.5 268°.95 3°.4/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.19	− 6 1.7	2.057	2.822	14.8	17.8
2 11	11 36.06	− 6 13.8	1.952	2.809	12.0	17.6
2 21	11 29.77	− 6 8.9	1.870	2.795	8.7	17.4
3 2	11 21.83	− 5 47.5	1.813	2.782	5.3	17.1
3 12	11 13.05	− 5 12.1	1.783	2.768	3.4	17.0
3 22	11 4.39	− 4 27.6	1.782	2.755	5.6	17.1
4 1	10 56.82	− 3 39.9	1.809	2.741	9.3	17.3
4 11	10 51.12	− 2 55.1	1.860	2.727	12.8	17.5

368784 2005 WV_{179} 3 8.5 203°.51 3°.9/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.71	− 8 28.0	2.164	2.912	14.7	21.0
2 11	11 36.28	− 8 36.5	2.066	2.909	12.0	20.8
2 21	11 29.80	− 8 26.8	1.990	2.906	8.9	20.6
3 2	11 21.81	− 7 59.3	1.940	2.902	5.7	20.4
3 12	11 13.09	− 7 16.6	1.917	2.898	3.9	20.3
3 22	11 4.57	− 6 23.5	1.924	2.893	5.5	20.4
4 1	10 57.14	− 5 26.2	1.958	2.888	8.8	20.6
4 11	10 51.50	− 4 31.0	2.017	2.883	12.0	20.7

33743 1999 NC_{55} 3 8.5 210°.62 4°.4/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.67	−14 26.8	3.035	3.734	11.8	18.7
2 11	11 32.66	−14 30.4	2.926	3.728	10.0	18.5
2 21	11 27.21	−14 17.7	2.840	3.722	7.9	18.4
3 2	11 20.71	−13 48.4	2.779	3.715	5.8	18.2
3 12	11 13.71	−13 4.4	2.746	3.709	4.5	18.1
3 22	11 6.83	−12 8.7	2.743	3.701	4.9	18.1
4 1	11 0.68	−11 5.8	2.769	3.694	6.8	18.3
4 11	10 55.78	−10 1.1	2.822	3.686	9.0	18.4

208398 2001 SD_{200} 3 8.5 78°.71 0°.6/ 7.8 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.98	+ 4 17.9	2.237	3.040	12.6	20.6
2 11	11 34.65	+ 4 49.1	2.168	3.057	9.5	20.4
2 21	11 28.54	+ 5 30.1	2.122	3.073	6.1	20.2
3 2	11 21.22	+ 6 17.0	2.104	3.089	2.3	20.0
3 12	11 13.46	+ 7 4.3	2.115	3.106	1.7	20.0
3 22	11 6.08	+ 7 47.1	2.156	3.122	5.4	20.3
4 1	10 59.80	+ 8 21.1	2.224	3.138	8.8	20.5
4 11	10 55.18	+ 8 43.6	2.317	3.154	11.7	20.7

385059 2012 UK_{47} 3 8.5 197°.99 0°.2/ 8.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.39	+ 2 31.3	2.429	3.225	11.9	21.5
2 11	11 33.45	+ 3 6.3	2.339	3.224	9.1	21.3
2 21	11 27.81	+ 3 52.7	2.273	3.222	5.9	21.1
3 2	11 20.96	+ 4 46.7	2.235	3.221	2.3	20.8
3 12	11 13.58	+ 5 43.5	2.227	3.219	1.4	20.8
3 22	11 6.42	+ 6 37.8	2.249	3.217	5.0	21.0
4 1	11 0.19	+ 7 24.8	2.298	3.214	8.4	21.2
4 11	10 55.48	+ 8 1.0	2.373	3.212	11.4	21.4

318343 2004 TY_{262} 3 8.5 110°.42 1°.8/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.47	− 2 52.5	2.041	2.822	14.4	21.1
2 11	11 35.31	− 2 39.2	1.958	2.829	11.3	20.9
2 21	11 29.13	− 2 9.9	1.898	2.835	7.8	20.7
3 2	11 21.51	− 1 26.9	1.863	2.842	3.9	20.5
3 12	11 13.29	− 0 34.9	1.858	2.848	1.9	20.4
3 22	11 5.38	+ 0 20.3	1.881	2.854	5.2	20.6
4 1	10 58.65	+ 1 12.5	1.931	2.861	9.0	20.8
4 11	10 53.75	+ 1 56.6	2.006	2.867	12.3	21.0

305407 2008 CZ_{91} 3 8.5 11°.74 3°.7/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.03	− 7 34.8	2.313	3.065	13.7	20.8
2 11	11 34.82	− 7 57.3	2.221	3.066	11.2	20.7
2 21	11 28.77	− 8 4.4	2.150	3.067	8.3	20.5
3 2	11 21.36	− 7 56.2	2.106	3.068	5.4	20.3
3 12	11 13.36	− 7 34.8	2.089	3.069	3.7	20.2
3 22	11 5.56	− 7 3.9	2.101	3.071	5.2	20.3
4 1	10 58.78	− 6 28.4	2.141	3.072	8.1	20.5
4 11	10 53.63	− 5 53.3	2.207	3.074	11.1	20.6

299834 2006 SH_{195} 3 8.5 11°.58 4°.5/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 33.13	−11 45.1	1.865	2.622	16.4	19.8
2 11	11 30.73	−11 27.5	1.780	2.625	13.5	19.6
2 21	11 26.31	−10 44.5	1.715	2.629	10.2	19.4
3 2	11 20.41	− 9 37.3	1.674	2.634	6.8	19.2
3 12	11 13.89	− 8 10.5	1.659	2.639	4.5	19.1
3 22	11 7.66	− 6 31.6	1.672	2.645	5.8	19.2
4 1	11 2.60	− 4 49.8	1.712	2.652	9.1	19.4
4 11	10 59.39	− 3 14.0	1.776	2.660	12.5	19.6

329965 2005 RG_{16} 3 8.5 60°.13 0°.1/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.60	+ 2 31.2	1.662	2.471	15.9	21.1
2 11	11 37.30	+ 2 46.0	1.589	2.480	12.3	20.9
2 21	11 30.58	+ 3 15.1	1.539	2.489	8.0	20.7
3 2	11 22.13	+ 3 54.2	1.514	2.499	3.2	20.4
3 12	11 12.99	+ 4 37.2	1.516	2.508	1.7	20.3
3 22	11 4.32	+ 5 17.5	1.546	2.518	6.4	20.6
4 1	10 57.15	+ 5 49.4	1.602	2.528	10.8	20.9
4 11	10 52.23	+ 6 8.8	1.681	2.538	14.5	21.2

279178 2009 SW_{281} 3 8.5 137°.30 1°.7/ 6.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.22	+ 6 34.6	1.996	2.809	13.5	21.6
2 11	11 35.91	+ 7 21.6	1.919	2.815	10.2	21.4
2 21	11 29.53	+ 8 19.0	1.866	2.820	6.5	21.2
3 2	11 21.68	+ 9 21.4	1.840	2.826	2.7	21.0
3 12	11 13.23	+10 21.8	1.843	2.831	2.8	21.0
3 22	11 5.13	+11 13.9	1.875	2.835	6.6	21.2
4 1	10 58.26	+11 52.9	1.934	2.840	10.3	21.5
4 11	10 53.29	+12 16.0	2.016	2.844	13.5	21.7

364620 2007 TO_{1} 3 8.5 62°.79 2°.5/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.99	− 5 2.3	1.512	2.306	18.0	20.9
2 11	11 35.61	− 4 40.0	1.436	2.312	14.3	20.7
2 21	11 29.66	− 3 53.5	1.379	2.318	10.0	20.5
3 2	11 21.81	− 2 45.6	1.347	2.325	5.3	20.2
3 12	11 13.16	− 1 23.4	1.341	2.331	2.6	20.1
3 22	11 4.92	+ 0 3.7	1.362	2.338	6.4	20.3
4 1	10 58.24	+ 1 26.0	1.408	2.344	11.0	20.6
4 11	10 53.94	+ 2 35.3	1.477	2.351	15.1	20.8

372550 2009 TA_{35} 3 8.5 220°.95 0°.6/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.47	− 0 32.5	2.574	3.349	11.9	23.0
2 11	11 35.79	− 0 0.3	2.466	3.336	9.3	22.8
2 21	11 29.36	+ 0 45.0	2.382	3.323	6.2	22.6
3 2	11 21.62	+ 1 40.7	2.327	3.309	2.7	22.3
3 12	11 13.24	+ 2 42.4	2.302	3.294	1.2	22.2
3 22	11 4.98	+ 3 44.9	2.309	3.279	4.7	22.4
4 1	10 57.58	+ 4 42.9	2.344	3.262	8.2	22.6
4 11	10 51.67	+ 5 32.1	2.406	3.245	11.3	22.8

334575 2002 TK_{105} 3 8.5 169°.68 3°.7/12.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.85	− 8 46.2	2.556	3.292	13.0	20.7
2 11	11 36.03	− 9 3.8	2.461	3.295	10.6	20.5
2 21	11 29.47	− 9 6.4	2.388	3.297	7.9	20.3
3 2	11 21.64	− 8 54.2	2.341	3.299	5.2	20.2
3 12	11 13.25	− 8 29.0	2.323	3.301	3.7	20.1
3 22	11 5.06	− 7 54.3	2.335	3.302	5.0	20.2
4 1	10 57.80	− 7 14.7	2.376	3.303	7.6	20.3
4 11	10 52.08	− 6 35.2	2.443	3.304	10.4	20.5

204104 2003 WN_{114} 3 8.5 184°.08 0°.5/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.72	+ 4 12.3	2.764	3.554	10.8	22.1
2 11	11 35.00	+ 4 43.1	2.672	3.554	8.2	22.0
2 21	11 28.72	+ 5 22.5	2.606	3.554	5.3	21.8
3 2	11 21.32	+ 6 7.3	2.568	3.553	2.0	21.5
3 12	11 13.45	+ 6 53.3	2.561	3.552	1.5	21.5
3 22	11 5.79	+ 7 36.1	2.585	3.550	4.7	21.7
4 1	10 58.98	+ 8 12.0	2.638	3.547	7.8	21.9
4 11	10 53.56	+ 8 38.2	2.717	3.544	10.5	22.1

121540 Jamesmarsh 3 8.5 213°.09 0°.3/ 8.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.83	+ 1 46.9	2.361	3.154	12.3	19.9
2 11	11 33.89	+ 2 36.7	2.265	3.149	9.4	19.7
2 21	11 28.17	+ 3 39.9	2.194	3.143	6.1	19.5
3 2	11 21.15	+ 4 52.3	2.151	3.137	2.4	19.2
3 12	11 13.54	+ 6 8.3	2.139	3.130	1.5	19.1
3 22	11 6.11	+ 7 21.4	2.156	3.123	5.3	19.4
4 1	10 59.63	+ 8 26.1	2.201	3.115	8.8	19.6
4 11	10 54.72	+ 9 18.1	2.271	3.107	11.9	19.8

251755 1999 CG_{34} 3 8.5 70°.78 1°.3/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.43	+ 0 17.6	1.658	2.456	16.5	19.8
2 11	11 39.35	+ 0 15.1	1.594	2.475	12.8	19.6
2 21	11 31.83	+ 0 27.6	1.550	2.495	8.5	19.4
3 2	11 22.61	+ 0 52.3	1.533	2.515	3.9	19.2
3 12	11 12.80	+ 1 23.9	1.543	2.535	1.8	19.1
3 22	11 3.57	+ 1 56.5	1.581	2.554	6.1	19.4
4 1	10 55.95	+ 2 24.5	1.645	2.574	10.3	19.7
4 11	10 50.65	+ 2 43.3	1.733	2.593	13.9	20.0

241873 2001 UP_{56} 3 8.5 106°.21 4°.6/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.20	−13 34.7	2.488	3.205	13.7	20.6
2 11	11 33.28	−13 35.7	2.400	3.216	11.5	20.4
2 21	11 27.70	−13 17.4	2.334	3.226	8.9	20.3
3 2	11 20.93	−12 40.1	2.292	3.236	6.3	20.1
3 12	11 13.68	−11 46.3	2.278	3.246	4.7	20.1
3 22	11 6.67	−10 40.6	2.293	3.256	5.4	20.1
4 1	11 0.62	− 9 28.8	2.336	3.266	7.6	20.3
4 11	10 56.08	− 8 17.2	2.406	3.275	10.2	20.4

26163 1995 DW 3 8.5 185°.89 1°.4/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.80	+ 6 30.4	2.242	3.052	12.3	18.8
2 11	11 34.66	+ 7 9.7	2.158	3.052	9.4	18.6
2 21	11 28.67	+ 7 58.2	2.098	3.051	5.9	18.4
3 2	11 21.34	+ 8 51.5	2.065	3.051	2.4	18.2
3 12	11 13.45	+ 9 43.6	2.063	3.050	2.4	18.2
3 22	11 5.83	+10 29.3	2.089	3.050	6.0	18.4
4 1	10 59.26	+11 4.1	2.142	3.049	9.4	18.6
4 11	10 54.36	+11 25.4	2.220	3.048	12.4	18.8

309333 2007 SH_{23} 3 8.5 271°.73 4°.2/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.14	− 6 58.2	1.623	2.399	17.7	20.7
2 11	11 37.36	− 7 14.6	1.527	2.389	14.5	20.4
2 21	11 30.92	− 7 9.2	1.452	2.379	10.6	20.2
3 2	11 22.41	− 6 41.9	1.400	2.369	6.6	19.9
3 12	11 12.83	− 5 55.8	1.374	2.358	4.2	19.7
3 22	11 3.43	− 4 57.2	1.374	2.348	6.8	19.9
4 1	10 55.44	− 3 54.2	1.401	2.338	11.0	20.1
4 11	10 49.83	− 2 55.7	1.450	2.327	15.2	20.3

460048 2014 OC_{196} 3 8.5 169°.17 0°.4/ 8.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.25	+ 1 43.5	1.925	2.717	14.7	22.6
2 11	11 39.10	+ 1 56.5	1.840	2.721	11.4	22.4
2 21	11 31.68	+ 2 22.6	1.778	2.724	7.5	22.2
3 2	11 22.59	+ 2 58.7	1.743	2.726	3.2	21.9
3 12	11 12.78	+ 3 39.5	1.736	2.728	1.5	21.8
3 22	11 3.31	+ 4 19.2	1.759	2.730	5.9	22.1
4 1	10 55.18	+ 4 52.5	1.809	2.731	10.0	22.3
4 11	10 49.12	+ 5 15.4	1.884	2.731	13.6	22.5

268982 2007 EK_{69} 3 8.5 117°.26 2°.2/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.37	+ 9 4.3	1.936	2.753	13.7	21.3
2 11	11 37.60	+ 9 37.3	1.861	2.759	10.4	21.1
2 21	11 30.65	+10 18.0	1.810	2.765	6.6	20.9
3 2	11 22.16	+11 0.9	1.786	2.770	3.0	20.7
3 12	11 13.05	+11 39.7	1.790	2.776	3.3	20.7
3 22	11 4.34	+12 9.0	1.823	2.781	7.0	20.9
4 1	10 56.97	+12 24.9	1.883	2.786	10.7	21.2
4 11	10 51.62	+12 25.9	1.965	2.791	13.9	21.4

391153 2005 YR_{95} 3 8.5 167°.64 3°.3/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.77	+14 39.5	2.981	3.800	9.3	21.0
2 11	11 31.94	+15 44.2	2.904	3.802	7.0	20.8
2 21	11 26.72	+16 51.8	2.854	3.804	4.7	20.7
3 2	11 20.52	+17 57.3	2.833	3.806	3.3	20.6
3 12	11 13.93	+18 55.6	2.842	3.807	4.1	20.6
3 22	11 7.53	+19 42.7	2.881	3.809	6.3	20.8
4 1	11 1.92	+20 16.0	2.947	3.810	8.6	20.9
4 11	10 57.56	+20 34.3	3.037	3.811	10.7	21.1

492238 2013 TN_{101} 3 8.5 159°.87 0°.0/ 8.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.93	+ 2 50.1	2.437	3.227	12.1	22.1
2 11	11 36.09	+ 3 11.9	2.352	3.232	9.3	21.9
2 21	11 29.50	+ 3 43.8	2.291	3.237	6.0	21.7
3 2	11 21.66	+ 4 22.6	2.258	3.242	2.4	21.5
3 12	11 13.31	+ 5 3.9	2.255	3.246	1.3	21.4
3 22	11 5.24	+ 5 43.1	2.282	3.250	5.0	21.7
4 1	10 58.17	+ 6 16.0	2.338	3.253	8.3	21.9
4 11	10 52.69	+ 6 39.5	2.419	3.256	11.3	22.1

374173 2004 VH_{115} 3 8.5 146°.25 1°.3/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.15	− 2 5.7	2.174	2.955	13.6	21.8
2 11	11 34.97	− 1 42.3	2.088	2.960	10.7	21.6
2 21	11 28.89	− 1 3.8	2.026	2.965	7.2	21.4
3 2	11 21.45	− 0 12.8	1.990	2.970	3.5	21.2
3 12	11 13.44	+ 0 45.8	1.983	2.974	1.6	21.1
3 22	11 5.70	+ 1 46.0	2.005	2.979	5.0	21.3
4 1	10 59.05	+ 2 42.2	2.056	2.982	8.7	21.5
4 11	10 54.12	+ 3 29.3	2.131	2.986	11.9	21.7

193407 2000 WT_{37} 3 8.5 205°.61 0°.5/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.00	− 0 12.9	2.377	3.161	12.5	20.8
2 11	11 34.77	+ 0 23.3	2.280	3.156	9.7	20.6
2 21	11 28.74	+ 1 13.4	2.207	3.151	6.4	20.4
3 2	11 21.40	+ 2 14.1	2.162	3.145	2.8	20.2
3 12	11 13.46	+ 3 20.4	2.147	3.139	1.2	20.0
3 22	11 5.70	+ 4 26.5	2.162	3.132	5.0	20.3
4 1	10 58.89	+ 5 26.8	2.205	3.125	8.5	20.5
4 11	10 53.67	+ 6 16.7	2.273	3.117	11.7	20.7

87712 2000 SA_{34} 3 8.5 245°.21 2°.2/ 6.3 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.89	+ 7 48.8	1.985	2.802	13.4	20.1
2 11	11 35.83	+ 8 37.6	1.896	2.794	10.2	19.9
2 21	11 29.61	+ 9 36.7	1.831	2.786	6.5	19.6
3 2	11 21.80	+10 40.5	1.793	2.778	2.9	19.4
3 12	11 13.24	+11 41.9	1.784	2.769	3.3	19.4
3 22	11 4.93	+12 34.1	1.803	2.760	7.1	19.6
4 1	10 57.80	+13 12.2	1.848	2.751	10.9	19.8
4 11	10 52.60	+13 33.1	1.916	2.742	14.3	20.0

128802 2004 RE_{234} 3 8.5 150°.19 2°.5/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.89	+ 9 52.3	2.037	2.854	13.1	20.0
2 11	11 37.17	+10 27.8	1.959	2.856	9.9	19.8
2 21	11 30.36	+11 10.3	1.905	2.859	6.4	19.6
3 2	11 22.05	+11 54.2	1.878	2.862	3.0	19.4
3 12	11 13.14	+12 33.4	1.880	2.864	3.5	19.4
3 22	11 4.58	+13 2.7	1.911	2.866	7.0	19.6
4 1	10 57.27	+13 18.5	1.968	2.868	10.5	19.8
4 11	10 51.89	+13 19.1	2.049	2.870	13.6	20.0

114933 2003 QZ_{45} 3 8.5 197.°04 0.°4/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 44.23	+ 3 31.6	2.150	2.942	13.4	21.3
2 11	11 38.94	+ 3 57.5	2.056	2.939	10.3	21.1
2 21	11 31.53	+ 4 34.9	1.987	2.935	6.7	20.8
3 2	11 22.55	+ 5 20.1	1.945	2.930	2.6	20.6
3 12	11 12.86	+ 6 7.6	1.933	2.924	1.7	20.5
3 22	11 3.41	+ 6 52.0	1.951	2.918	5.8	20.7
4 1	10 55.12	+ 7 28.1	1.998	2.911	9.7	21.0
4 11	10 48.71	+ 7 52.6	2.068	2.902	13.0	21.2

465649 2009 QD_{57} 3 8.5 126.°55 0.°5/ 9.1 16

2 1	11 39.61	− 0 10.1	2.010	2.803	14.2	22.3
2 11	11 35.44	+ 0 25.4	1.931	2.811	11.0	22.1
2 21	11 29.24	+ 1 16.2	1.874	2.820	7.2	21.8
3 2	11 21.61	+ 2 18.5	1.844	2.828	3.1	21.6
3 12	11 13.39	+ 3 26.3	1.843	2.835	1.4	21.5
3 22	11 5.51	+ 4 32.7	1.871	2.843	5.5	21.8
4 1	10 58.82	+ 5 31.6	1.927	2.850	9.4	22.0
4 11	10 53.99	+ 6 18.3	2.007	2.857	12.7	22.2

503602 2016 GA_{93} 3 8.5 165.°17 1.°7/ 6.6 17

2 1	11 39.69	+ 6 52.3	2.263	3.071	12.3	21.9
2 11	11 35.32	+ 7 43.3	2.181	3.075	9.3	21.8
2 21	11 29.08	+ 8 43.8	2.125	3.078	5.9	21.5
3 2	11 21.53	+ 9 48.4	2.096	3.081	2.5	21.3
3 12	11 13.43	+10 51.1	2.097	3.084	2.7	21.3
3 22	11 5.61	+11 46.0	2.128	3.086	6.2	21.6
4 1	10 58.86	+12 28.7	2.186	3.088	9.5	21.8
4 11	10 53.80	+12 56.4	2.269	3.089	12.5	22.0

73105 2002 GR_{25} 3 8.5 268.°76 0.°8/ 7.8 18

2 1	11 42.48	+ 5 41.7	2.220	3.021	12.7	19.7
2 11	11 37.71	+ 5 58.1	2.110	2.998	9.8	19.4
2 21	11 30.83	+ 6 23.8	2.024	2.975	6.4	19.2
3 2	11 22.32	+ 6 55.3	1.966	2.951	2.5	18.9
3 12	11 12.97	+ 7 27.9	1.937	2.927	2.0	18.8
3 22	11 3.68	+ 7 56.6	1.937	2.902	6.0	19.0
4 1	10 55.42	+ 8 17.0	1.966	2.877	9.9	19.2
4 11	10 48.94	+ 8 26.1	2.018	2.852	13.3	19.4

406341 2007 RW_{79} 3 8.5 163.°26 0.°4/ 8.9 18

2 1	11 41.98	+ 0 23.8	1.771	2.569	15.6	22.3
2 11	11 37.58	+ 0 57.1	1.689	2.573	12.1	22.1
2 21	11 30.80	+ 1 47.3	1.629	2.576	7.9	21.9
3 2	11 22.29	+ 2 50.3	1.595	2.579	3.3	21.6
3 12	11 13.04	+ 3 59.3	1.590	2.582	1.6	21.5
3 22	11 4.13	+ 5 6.4	1.613	2.584	6.3	21.8
4 1	10 56.61	+ 6 4.7	1.663	2.586	10.6	22.0
4 11	10 51.25	+ 6 49.0	1.736	2.587	14.3	22.3

471398 2011 SA_{166} 3 8.5 264.°42 0.°9/ 7.6 18

2 1	11 40.99	+ 6 50.4	2.471	3.272	11.6	20.8
2 11	11 36.23	+ 7 0.9	2.374	3.263	8.9	20.6
2 21	11 29.66	+ 7 18.2	2.302	3.253	5.7	20.4
3 2	11 21.78	+ 7 39.1	2.258	3.243	2.2	20.2
3 12	11 13.31	+ 7 59.6	2.243	3.233	1.9	20.1
3 22	11 5.03	+ 8 15.9	2.259	3.223	5.3	20.3
4 1	10 57.71	+ 8 24.9	2.302	3.213	8.7	20.5
4 11	10 51.97	+ 8 24.2	2.371	3.202	11.6	20.7

205700 2002 AY_{12} 3 8.5 71.°56 1.°4/ 9.6 18

2 1	11 42.54	− 1 2.0	1.427	2.234	18.2	20.2
2 11	11 38.38	− 0 48.4	1.360	2.247	14.2	19.9
2 21	11 31.46	− 0 14.9	1.314	2.261	9.5	19.7
3 2	11 22.57	+ 0 34.8	1.292	2.275	4.4	19.4
3 12	11 12.92	+ 1 33.4	1.296	2.288	1.9	19.3
3 22	11 3.85	+ 2 32.6	1.327	2.302	6.8	19.6
4 1	10 56.54	+ 3 24.3	1.383	2.316	11.5	19.9
4 11	10 51.80	+ 4 2.6	1.462	2.330	15.6	20.2

451037 2008 XN_{3} 3 8.5 86.°97 1.°1/ 9.4 18

2 1	11 45.96	− 0 35.4	1.527	2.324	17.7	21.5
2 11	11 40.65	− 0 16.9	1.469	2.350	13.7	21.3
2 21	11 32.72	+ 0 19.7	1.431	2.376	9.0	21.1
3 2	11 23.01	+ 1 10.2	1.419	2.402	4.0	20.8
3 12	11 12.73	+ 2 7.4	1.435	2.427	1.7	20.7
3 22	11 3.14	+ 3 3.5	1.478	2.451	6.5	21.1
4 1	10 55.35	+ 3 51.5	1.547	2.475	10.9	21.4
4 11	10 50.07	+ 4 26.4	1.640	2.498	14.7	21.7

460562 2014 TZ_{71} 3 8.5 136.°85 0.°4/ 8.9 18

2 1	11 43.08	+ 0 38.0	1.962	2.752	14.6	22.7
2 11	11 38.10	+ 1 6.4	1.885	2.764	11.2	22.5
2 21	11 30.97	+ 1 49.4	1.831	2.776	7.4	22.3
3 2	11 22.32	+ 2 43.1	1.803	2.787	3.1	22.0
3 12	11 13.07	+ 3 41.5	1.806	2.798	1.4	21.9
3 22	11 4.21	+ 4 38.1	1.837	2.808	5.7	22.2
4 1	10 56.66	+ 5 27.2	1.896	2.817	9.6	22.5
4 11	10 51.11	+ 6 4.4	1.979	2.826	13.0	22.7

517576 2014 UK_{96} 3 8.5 184.°16 0.°5/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.99	+ 3 8.6	2.124	2.920	13.4	22.5
2 11	11 37.23	+ 3 48.1	2.036	2.921	10.3	22.3
2 21	11 30.42	+ 4 40.2	1.972	2.921	6.6	22.1
3 2	11 22.12	+ 5 40.7	1.935	2.920	2.6	21.8
3 12	11 13.16	+ 6 43.4	1.928	2.919	1.8	21.8
3 22	11 4.47	+ 7 42.0	1.950	2.917	5.9	22.0
4 1	10 56.93	+ 8 31.1	2.001	2.914	9.7	22.3
4 11	10 51.23	+ 9 6.9	2.076	2.910	13.0	22.5

109450 2001 QP_{206} 3 8.5 164.°45 0.°0/ 8.4 18

2 1	11 38.44	+ 2 36.5	2.720	3.508	11.0	21.1
2 11	11 34.06	+ 3 5.4	2.632	3.512	8.4	20.9
2 21	11 28.14	+ 3 44.0	2.569	3.516	5.4	20.7
3 2	11 21.14	+ 4 29.0	2.535	3.520	2.2	20.5
3 12	11 13.70	+ 5 16.3	2.531	3.523	1.2	20.4
3 22	11 6.48	+ 6 1.6	2.558	3.525	4.5	20.7
4 1	11 0.11	+ 6 40.8	2.613	3.528	7.6	20.9
4 11	10 55.13	+ 7 11.1	2.694	3.530	10.3	21.0

287461 2002 YD_{33} 3 8.5 172.°35 6.°5/18.1 18

2 1	11 39.75	−23 18.4	3.210	3.834	12.5	21.3
2 11	11 35.01	−23 46.4	3.107	3.837	11.0	21.2
2 21	11 28.75	−23 56.2	3.024	3.841	9.4	21.0
3 2	11 21.40	−23 46.4	2.965	3.843	7.8	20.9
3 12	11 13.55	−23 17.1	2.933	3.845	6.7	20.9
3 22	11 5.84	−22 30.6	2.928	3.847	6.6	20.9
4 1	10 58.90	−21 30.8	2.951	3.848	7.5	20.9
4 11	10 53.26	−20 23.2	3.001	3.848	9.0	21.0

107273 2001 BT_{71} 3 8.5 1.°69 5.°6/12.5 18 R

2 1	11 38.10	− 7 29.1	1.428	2.218	19.1	18.6
2 11	11 35.22	− 8 19.1	1.349	2.216	15.7	18.3
2 21	11 29.61	− 8 47.4	1.289	2.215	11.8	18.1
3 2	11 21.92	− 8 52.4	1.250	2.215	7.8	17.9
3 12	11 13.26	− 8 36.1	1.236	2.217	5.6	17.7
3 22	11 4.93	− 8 3.5	1.247	2.220	7.5	17.9
4 1	10 58.20	− 7 22.5	1.282	2.224	11.4	18.1
4 11	10 53.98	− 6 41.6	1.339	2.229	15.3	18.3

520518 2014 LJ_{32} 3 8.5 206.°16 4.°8/12.5 18

2 1	11 42.22	− 9 8.6	1.684	2.445	17.7	21.1
2 11	11 38.05	− 9 24.2	1.593	2.443	14.6	20.9
2 21	11 31.31	− 9 17.0	1.522	2.440	10.9	20.6
3 2	11 22.58	− 8 46.2	1.474	2.437	7.1	20.4
3 12	11 12.91	− 7 55.0	1.453	2.434	4.9	20.3
3 22	11 3.48	− 6 49.7	1.459	2.430	6.8	20.4
4 1	10 55.47	− 5 38.8	1.491	2.427	10.6	20.6
4 11	10 49.79	− 4 31.2	1.547	2.422	14.5	20.8

238459 2004 RC_{28} 3 8.5 281.°73 0.°8/ 9.2 18

2 1	11 38.49	− 1 41.2	1.450	2.260	17.8	20.5
2 11	11 35.54	− 0 59.6	1.362	2.252	14.0	20.2
2 21	11 29.86	+ 0 6.3	1.294	2.243	9.4	19.9
3 2	11 22.05	+ 1 32.4	1.251	2.234	4.1	19.6
3 12	11 13.20	+ 3 10.1	1.234	2.226	1.8	19.4
3 22	11 4.60	+ 4 48.5	1.243	2.217	7.2	19.7
4 1	10 57.53	+ 6 16.5	1.277	2.209	12.4	20.0
4 11	10 52.98	+ 7 26.1	1.333	2.200	16.9	20.2

14819 Nikolaylaverov 3 8.5 136.°68 1.°7/10.2 18 R

2 1	11 42.01	− 3 4.3	2.138	2.911	14.1	19.4
2 11	11 37.13	− 2 44.1	2.058	2.924	11.1	19.2
2 21	11 30.29	− 2 8.0	2.000	2.936	7.6	19.0
3 2	11 22.05	− 1 18.7	1.970	2.948	3.8	18.8
3 12	11 13.26	− 0 21.0	1.968	2.959	1.8	18.7
3 22	11 4.81	+ 0 39.1	1.997	2.970	5.1	18.9
4 1	10 57.55	+ 1 35.6	2.054	2.980	8.7	19.1
4 11	10 52.10	+ 2 23.6	2.136	2.989	11.9	19.3

135127 2001 QR_{160} 3 8.5 133.°79 0.°5/ 7.9 18

2 1	11 37.47	+ 3 4.0	2.473	3.269	11.7	20.4
2 11	11 33.47	+ 3 47.7	2.391	3.276	8.9	20.2
2 21	11 27.83	+ 4 42.3	2.334	3.284	5.7	20.0
3 2	11 21.05	+ 5 43.6	2.305	3.291	2.2	19.8
3 12	11 13.80	+ 6 46.5	2.306	3.297	1.5	19.7
3 22	11 6.81	+ 7 45.6	2.338	3.304	5.0	20.0
4 1	11 0.77	+ 8 36.2	2.397	3.310	8.3	20.2
4 11	10 56.21	+ 9 15.1	2.481	3.316	11.1	20.4

408074 2012 GC_{36} 3 8.5 46.°38 0.°9/ 9.4 18

2 1	11 39.41	− 0 26.5	1.633	2.438	16.4	20.7
2 11	11 35.76	− 0 5.1	1.558	2.444	12.7	20.5
2 21	11 29.69	+ 0 34.3	1.504	2.451	8.5	20.2
3 2	11 21.88	+ 1 27.8	1.475	2.459	3.8	20.0
3 12	11 13.36	+ 2 28.8	1.474	2.466	1.6	19.8
3 22	11 5.24	+ 3 29.6	1.500	2.474	6.2	20.1
4 1	10 58.58	+ 4 22.9	1.551	2.482	10.7	20.4
4 11	10 54.14	+ 5 3.2	1.626	2.490	14.5	20.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
21167 1993 *XQ*			3 8.5 111°.98		0°.5/ 9.0 18	
	h m	° ′			°	m
2 1	11 39.04	+ 0 43.5	2.244	3.034	12.9	18.8
2 11	11 34.81	+ 1 8.9	2.163	3.043	10.0	18.6
2 21	11 28.76	+ 1 46.9	2.107	3.052	6.6	18.4
3 2	11 21.44	+ 2 34.2	2.077	3.061	2.8	18.2
3 12	11 13.61	+ 3 25.9	2.077	3.069	1.3	18.1
3 22	11 6.08	+ 4 16.6	2.107	3.078	5.0	18.4
4 1	10 59.62	+ 5 1.2	2.164	3.086	8.5	18.6
4 11	10 54.82	+ 5 36.0	2.246	3.094	11.6	18.8
18873 Larryrobinson			3 8.5 233°.67		3°.7/ 4.6 18	
2 1	11 41.58	+11 12.9	1.984	2.805	13.2	19.6
2 11	11 37.24	+12 27.6	1.892	2.792	10.1	19.4
2 21	11 30.63	+13 51.7	1.825	2.779	6.6	19.1
3 2	11 22.29	+15 17.9	1.785	2.765	3.9	18.9
3 12	11 13.12	+16 37.5	1.775	2.750	5.0	19.0
3 22	11 4.13	+17 42.8	1.793	2.735	8.4	19.1
4 1	10 56.34	+18 28.5	1.837	2.719	12.1	19.3
4 11	10 50.55	+18 52.5	1.904	2.702	15.3	19.5
172485 2003 ST_{117}			3 8.5 220°.53		3°.7/11.7 18	
2 1	11 42.20	− 6 58.8	1.869	2.632	16.1	20.5
2 11	11 37.82	− 7 4.9	1.771	2.626	13.1	20.3
2 21	11 31.07	− 6 51.2	1.695	2.619	9.6	20.1
3 2	11 22.49	− 6 18.0	1.643	2.612	5.8	19.8
3 12	11 13.02	− 5 28.7	1.619	2.604	3.7	19.7
3 22	11 3.73	− 4 29.0	1.623	2.596	6.1	19.8
4 1	10 55.70	− 3 26.4	1.654	2.587	9.9	20.0
4 11	10 49.77	− 2 28.3	1.710	2.578	13.7	20.2
3897 Louhi			3 8.5 193°.45		1°.1/ 9.8 18	
2 1	11 38.93	− 2 11.8	2.340	3.116	12.9	18.1
2 11	11 34.76	− 1 39.2	2.245	3.115	10.1	17.9
2 21	11 28.78	− 0 51.5	2.174	3.113	6.8	17.7
3 2	11 21.48	+ 0 8.5	2.130	3.110	3.2	17.4
3 12	11 13.59	+ 1 15.9	2.115	3.107	1.4	17.3
3 22	11 5.90	+ 2 24.8	2.131	3.103	4.8	17.5
4 1	10 59.19	+ 3 29.5	2.175	3.099	8.4	17.7
4 11	10 54.08	+ 4 24.8	2.245	3.095	11.6	17.9
176757 2002 RG_{140}			3 8.5 251°.59		3°.3/ 5.3 17	
2 1	11 41.17	+ 9 55.0	1.861	2.684	13.9	20.7
2 11	11 37.08	+10 59.1	1.768	2.669	10.6	20.4
2 21	11 30.61	+12 14.0	1.698	2.654	6.9	20.2
3 2	11 22.31	+13 32.5	1.656	2.638	3.7	19.9
3 12	11 13.12	+14 46.0	1.642	2.622	4.6	20.0
3 22	11 4.11	+15 46.6	1.656	2.605	8.4	20.2
4 1	10 56.35	+16 28.6	1.696	2.589	12.3	20.3
4 11	10 50.71	+16 49.5	1.758	2.571	15.8	20.5
225388 1999 UN_{18}			3 8.5 143°.63		2°.4/ 6.6 18	
2 1	11 46.14	+ 7 37.6	1.609	2.426	16.0	20.3
2 11	11 40.92	+ 8 26.3	1.538	2.436	12.2	20.1
2 21	11 33.04	+ 9 26.4	1.491	2.445	7.7	19.9
3 2	11 23.24	+10 31.0	1.469	2.454	3.4	19.6
3 12	11 12.69	+11 31.2	1.476	2.462	3.7	19.6
3 22	11 2.67	+12 19.5	1.511	2.470	8.0	19.9
4 1	10 54.33	+12 50.6	1.571	2.476	12.3	20.2
4 11	10 48.48	+13 2.5	1.653	2.482	16.0	20.4
67995 2000 XU_{25}			3 8.5 148°.11		0°.7/ 9.1 18	
2 1	11 44.83	+ 1 10.9	1.831	2.624	15.3	19.8
2 11	11 39.66	+ 1 21.4	1.751	2.632	11.9	19.5
2 21	11 32.11	+ 1 46.0	1.693	2.639	7.9	19.3
3 2	11 22.86	+ 2 21.4	1.662	2.645	3.4	19.0
3 12	11 12.89	+ 3 2.2	1.659	2.651	1.5	18.9
3 22	11 3.31	+ 3 42.4	1.685	2.656	6.0	19.2
4 1	10 55.15	+ 4 16.5	1.738	2.661	10.2	19.5
4 11	10 49.17	+ 4 40.1	1.815	2.666	13.8	19.7
261320 2005 UX_{214}			3 8.5 86°.98		2°.8/ 5.8 18	
2 1	11 39.74	+ 8 56.1	1.797	2.622	14.2	20.4
2 11	11 35.85	+ 9 54.3	1.722	2.624	10.8	20.2
2 21	11 29.70	+11 2.7	1.670	2.626	6.9	19.9
3 2	11 21.89	+12 14.1	1.645	2.629	3.3	19.7
3 12	11 13.40	+13 20.4	1.648	2.631	4.0	19.8
3 22	11 5.28	+14 14.4	1.679	2.633	7.8	20.0
4 1	10 58.51	+14 51.1	1.735	2.635	11.6	20.2
4 11	10 53.83	+15 8.2	1.813	2.637	15.0	20.4
227364 2005 UU_{163}			3 8.5 252°.67		1°.0/ 9.5 17	
2 1	11 40.73	− 0 31.6	2.026	2.814	14.2	21.8
2 11	11 36.54	− 0 15.0	1.923	2.800	11.2	21.5
2 21	11 30.17	+ 0 16.8	1.843	2.785	7.5	21.3
3 2	11 22.13	+ 1 1.2	1.789	2.770	3.5	21.0
3 12	11 13.25	+ 1 53.6	1.763	2.755	1.5	20.8
3 22	11 4.50	+ 2 47.9	1.767	2.739	5.6	21.1
4 1	10 56.86	+ 3 37.9	1.798	2.723	9.8	21.3
4 11	10 51.11	+ 4 18.2	1.853	2.707	13.4	21.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
465142 2007 BG_{45}			3 8.5 41°.17		3°.4/ 5.6 18	
	h m	° ′			°	m
2 1	11 39.76	+ 6 8.7	1.189	2.033	18.8	20.6
2 11	11 36.31	+ 7 54.7	1.159	2.071	13.9	20.4
2 21	11 30.03	+ 9 54.8	1.149	2.110	8.6	20.2
3 2	11 21.95	+11 55.9	1.164	2.149	4.0	20.1
3 12	11 13.48	+13 44.2	1.206	2.189	5.0	20.2
3 22	11 5.95	+15 9.2	1.272	2.229	9.5	20.6
4 1	11 0.43	+16 5.8	1.362	2.269	13.7	20.9
4 11	10 57.52	+16 33.8	1.472	2.310	17.2	21.3
454111 2013 CP_{71}			3 8.5 37°.34		0°.7/ 9.1 18	
2 1	11 38.85	− 0 50.9	1.280	2.102	19.1	21.3
2 11	11 35.95	− 0 13.3	1.211	2.107	14.9	21.1
2 21	11 30.13	+ 0 48.2	1.161	2.113	9.8	20.8
3 2	11 22.16	+ 2 8.5	1.135	2.120	4.2	20.5
3 12	11 13.28	+ 3 37.7	1.134	2.126	1.9	20.3
3 22	11 4.91	+ 5 4.4	1.158	2.134	7.5	20.7
4 1	10 58.35	+ 6 18.3	1.207	2.141	12.7	21.0
4 11	10 54.48	+ 7 12.4	1.277	2.149	17.1	21.3
239477 2007 UB_{26}			3 8.5 351°.58		5°.5/ 3.0 17	
2 1	11 40.27	+18 35.9	2.011	2.843	12.7	20.1
2 11	11 36.08	+19 32.7	1.939	2.841	9.8	19.9
2 21	11 29.75	+20 29.9	1.892	2.839	7.0	19.8
3 2	11 21.89	+21 20.4	1.872	2.838	5.5	19.7
3 12	11 13.43	+21 56.9	1.879	2.837	6.5	19.7
3 22	11 5.34	+22 14.8	1.913	2.836	9.2	19.9
4 1	10 58.54	+22 12.0	1.972	2.835	12.2	20.1
4 11	10 53.71	+21 49.1	2.051	2.835	14.9	20.3
234044 1999 BU_{26}			3 8.5 339°.41		3°.3/11.7 17	
2 1	11 39.62	− 6 10.2	2.162	2.924	14.3	20.3
2 11	11 35.46	− 6 23.4	2.070	2.924	11.5	20.1
2 21	11 29.32	− 6 20.5	1.999	2.923	8.4	19.9
3 2	11 21.74	− 6 2.1	1.954	2.922	5.1	19.7
3 12	11 13.50	− 5 31.1	1.938	2.922	3.3	19.6
3 22	11 5.47	− 4 51.8	1.949	2.921	5.3	19.7
4 1	10 58.53	− 4 9.7	1.989	2.921	8.6	19.9
4 11	10 53.33	− 3 30.2	2.053	2.921	11.8	20.1
114669 2003 FU_{43}			3 8.5 287°.46		1°.1/ 7.3 18	
2 1	11 37.41	+ 5 47.3	2.356	3.163	11.9	19.6
2 11	11 33.65	+ 6 20.7	2.259	3.151	9.1	19.4
2 21	11 28.11	+ 7 3.7	2.186	3.139	5.8	19.1
3 2	11 21.25	+ 7 52.2	2.141	3.127	2.3	18.9
3 12	11 13.78	+ 8 41.1	2.125	3.114	2.1	18.8
3 22	11 6.47	+ 9 25.3	2.138	3.102	5.6	19.1
4 1	11 0.10	+10 0.2	2.179	3.090	9.1	19.3
4 11	10 55.29	+10 22.8	2.244	3.078	12.2	19.4
160812 2000 WN_{3}			3 8.5 122°.83		1°.9/ 6.3 18	
2 1	11 41.80	+ 3 21.5	1.974	2.775	14.1	19.8
2 11	11 37.10	+ 5 10.1	1.905	2.796	10.6	19.6
2 21	11 30.33	+ 7 14.2	1.863	2.815	6.6	19.4
3 2	11 22.11	+ 9 25.5	1.849	2.834	2.7	19.2
3 12	11 13.36	+11 33.6	1.867	2.853	3.2	19.2
3 22	11 5.02	+13 29.1	1.916	2.870	7.0	19.5
4 1	10 57.97	+15 4.8	1.993	2.886	10.7	19.8
4 11	10 52.87	+16 17.5	2.094	2.902	13.8	20.0
229993 2000 AK_{218}			3 8.5 66°.56		3°.8/ 5.6 18	
2 1	11 42.44	+ 9 1.3	1.268	2.109	18.0	20.5
2 11	11 38.66	+10 9.2	1.210	2.120	13.6	20.2
2 21	11 31.83	+11 30.0	1.172	2.131	8.7	20.0
3 2	11 22.82	+12 53.7	1.159	2.143	4.4	19.8
3 12	11 12.99	+14 8.4	1.171	2.154	5.3	19.8
3 22	11 3.85	+15 4.4	1.209	2.165	9.9	20.1
4 1	10 56.69	+15 36.0	1.270	2.177	14.5	20.4
4 11	10 52.36	+15 42.2	1.350	2.189	18.4	20.7
163836 2003 SG_{41}			3 8.5 87°.10		3°.0/ 6.4 18	
2 1	11 49.86	+11 18.6	1.654	2.471	15.7	20.2
2 11	11 43.42	+11 44.2	1.600	2.496	11.9	20.0
2 21	11 34.41	+12 15.2	1.569	2.522	7.6	19.8
3 2	11 23.72	+12 44.9	1.564	2.547	3.7	19.6
3 12	11 12.56	+13 6.7	1.588	2.571	4.1	19.7
3 22	11 2.18	+13 16.0	1.640	2.595	7.9	20.0
4 1	10 53.64	+13 10.3	1.719	2.619	11.7	20.3
4 11	10 47.60	+12 49.7	1.819	2.642	15.0	20.5
305835 2009 DE_{137}			3 8.5 39°.89		3°.6/11.1 18	
2 1	11 42.08	− 4 25.7	1.362	2.161	19.4	20.1
2 11	11 38.28	− 4 46.2	1.292	2.169	15.5	19.9
2 21	11 31.59	− 4 44.5	1.240	2.177	11.0	19.6
3 2	11 22.74	− 4 21.6	1.211	2.186	6.2	19.4
3 12	11 13.01	− 3 42.3	1.208	2.196	3.7	19.3
3 22	11 3.78	− 2 53.9	1.230	2.206	7.0	19.5
4 1	10 56.35	− 2 5.0	1.276	2.216	11.6	19.8
4 11	10 51.60	− 1 23.5	1.345	2.226	15.8	20.0

34696 Risoldi 3 8.5 25°.22 9°.2/15.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 42.51	−15 18.4	1.487	2.227	20.6	17.4
2 11	11 38.63	−16 40.5	1.411	2.233	17.7	17.2
2 21	11 31.88	−17 36.9	1.352	2.239	14.4	17.0
3 2	11 22.91	−18 2.7	1.315	2.247	11.3	16.9
3 12	11 12.91	−17 57.1	1.301	2.255	9.4	16.8
3 22	11 3.25	−17 23.7	1.311	2.263	9.8	16.8
4 1	10 55.29	−16 30.5	1.345	2.272	12.2	17.0
4 11	10 49.97	−15 28.3	1.401	2.282	15.3	17.2

164179 2004 BA_{49} 3 8.5 30°.73 1°.6/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.71	+ 6 16.4	1.953	2.771	13.6	20.1
2 11	11 34.11	+ 7 0.7	1.877	2.775	10.3	19.9
2 21	11 28.48	+ 7 55.8	1.824	2.780	6.5	19.7
3 2	11 21.40	+ 8 56.2	1.799	2.785	2.6	19.5
3 12	11 13.74	+ 9 55.2	1.802	2.790	2.7	19.5
3 22	11 6.42	+10 46.4	1.833	2.795	6.5	19.7
4 1	11 0.29	+11 24.8	1.890	2.801	10.3	20.0
4 11	10 56.02	+11 47.5	1.970	2.807	13.5	20.2

15883 1997 CR_{29} 3 8.5 73°.23 0°.3/ 3.5 13 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 18.81	+17 10.8	45.210	46.028	0.7	23.8
2 11	11 18.23	+17 16.3	45.137	46.033	0.5	23.8
2 21	11 17.58	+17 21.9	45.090	46.039	0.4	23.8
3 2	11 16.88	+17 27.2	45.074	46.044	0.3	23.8
3 12	11 16.16	+17 32.0	45.087	46.049	0.3	23.8
3 22	11 15.45	+17 36.3	45.130	46.055	0.5	23.8
4 1	11 14.78	+17 39.9	45.200	46.060	0.6	23.8
4 11	11 14.17	+17 42.7	45.296	46.065	0.8	23.8

362418 2010 PN_{61} 3 8.5 214°.63 0°.1/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.48	+ 1 33.1	2.064	2.855	13.9	22.2
2 11	11 37.79	+ 2 2.7	1.966	2.847	10.8	22.0
2 21	11 30.93	+ 2 46.4	1.892	2.839	7.1	21.8
3 2	11 22.44	+ 3 40.7	1.846	2.830	2.9	21.5
3 12	11 13.17	+ 4 39.8	1.828	2.820	1.5	21.4
3 22	11 4.09	+ 5 37.4	1.840	2.810	5.8	21.6
4 1	10 56.15	+ 6 27.5	1.880	2.798	9.9	21.8
4 11	10 50.12	+ 7 5.7	1.944	2.787	13.4	22.0

171944 2001 SM_{260} 3 8.5 248°.74 1°.7/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.44	+ 8 51.6	2.346	3.154	11.9	20.3
2 11	11 36.67	+ 9 10.7	2.255	3.148	9.1	20.1
2 21	11 30.03	+ 9 36.1	2.189	3.142	5.8	19.8
3 2	11 22.02	+10 3.6	2.151	3.136	2.5	19.6
3 12	11 13.42	+10 28.6	2.143	3.130	2.6	19.6
3 22	11 5.06	+10 47.0	2.164	3.123	5.9	19.8
4 1	10 57.74	+10 55.6	2.213	3.117	9.3	20.0
4 11	10 52.10	+10 52.5	2.286	3.111	12.3	20.2

264497 2001 QO_{36} 3 8.5 162°.14 1°.0/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.42	− 0 54.8	2.436	3.209	12.6	21.7
2 11	11 37.27	− 0 36.4	2.348	3.216	9.8	21.5
2 21	11 30.34	− 0 5.4	2.284	3.223	6.6	21.3
3 2	11 22.12	+ 0 35.7	2.248	3.229	3.1	21.1
3 12	11 13.38	+ 1 22.6	2.242	3.234	1.3	21.0
3 22	11 4.90	+ 2 10.4	2.267	3.238	4.7	21.2
4 1	10 57.44	+ 2 54.6	2.321	3.242	8.1	21.4
4 11	10 51.60	+ 3 30.9	2.401	3.245	11.1	21.6

329216 2012 DV_{76} 3 8.5 351°.09 0°.6/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.24	+ 1 20.4	1.565	2.377	16.6	20.7
2 11	11 36.62	+ 1 31.7	1.484	2.375	12.9	20.5
2 21	11 30.42	+ 1 59.4	1.423	2.373	8.6	20.2
3 2	11 22.28	+ 2 39.8	1.387	2.372	3.7	19.9
3 12	11 13.28	+ 3 26.9	1.378	2.370	1.7	19.8
3 22	11 4.63	+ 4 13.2	1.396	2.370	6.7	20.1
4 1	10 57.48	+ 4 52.0	1.439	2.369	11.3	20.4
4 11	10 52.68	+ 5 18.0	1.504	2.369	15.4	20.6

116086 2003 WU_{125} 3 8.6 108°.86 5°.6/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.39	+20 23.3	2.242	3.068	11.8	19.4
2 11	11 36.66	+21 30.9	2.182	3.079	9.1	19.2
2 21	11 29.99	+22 37.1	2.147	3.088	6.8	19.1
3 2	11 21.98	+23 34.9	2.140	3.098	5.6	19.1
3 12	11 13.50	+24 17.7	2.161	3.108	6.7	19.1
3 22	11 5.43	+24 41.6	2.209	3.117	9.0	19.3
4 1	10 58.58	+24 44.9	2.283	3.126	11.5	19.5
4 11	10 53.56	+24 28.6	2.378	3.135	13.8	19.7

136558 5429 $T\text{-}_2$ 3 8.6 148°.95 4°.6/15.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.79	−15 41.5	2.820	3.516	12.7	20.2
2 11	11 32.87	−15 34.6	2.724	3.522	10.7	20.1
2 21	11 27.44	−15 9.2	2.650	3.529	8.5	19.9
3 2	11 20.96	−14 25.1	2.600	3.535	6.2	19.8
3 12	11 14.02	−13 24.9	2.579	3.541	4.7	19.7
3 22	11 7.27	−12 12.4	2.587	3.546	5.1	19.7
4 1	11 1.36	−10 53.3	2.625	3.551	7.0	19.9
4 11	10 56.79	− 9 33.4	2.689	3.556	9.3	20.0

328344 2008 KP_7 3 8.6 256°.58 0°.5/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.19	+ 0 27.6	1.999	2.793	14.2	22.3
2 11	11 36.17	+ 0 52.6	1.897	2.778	11.1	22.1
2 21	11 29.97	+ 1 32.9	1.818	2.763	7.4	21.8
3 2	11 22.10	+ 2 25.5	1.764	2.748	3.2	21.5
3 12	11 13.38	+ 3 24.9	1.740	2.732	1.4	21.4
3 22	11 4.79	+ 4 24.7	1.744	2.716	5.8	21.6
4 1	10 57.32	+ 5 18.3	1.776	2.700	10.0	21.9
4 11	10 51.74	+ 6 0.5	1.832	2.683	13.7	22.0

83503 2001 SH_{121} 3 8.6 242°.48 1°.8/10.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.27	− 1 57.1	2.315	3.090	13.0	19.5
2 11	11 35.82	− 2 2.1	2.220	3.087	10.3	19.3
2 21	11 29.51	− 1 54.5	2.149	3.085	7.1	19.1
3 2	11 21.84	− 1 35.8	2.104	3.082	3.7	18.9
3 12	11 13.54	− 1 9.1	2.089	3.079	1.9	18.8
3 22	11 5.45	− 0 38.6	2.103	3.076	4.8	19.0
4 1	10 58.37	− 0 8.9	2.145	3.073	8.3	19.2
4 11	10 52.94	+ 0 16.0	2.212	3.070	11.4	19.4

304692 2006 WJ_{162} 3 8.6 189°.30 1°.6/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.18	− 4 11.5	3.098	3.853	10.5	22.5
2 11	11 33.01	− 3 53.7	2.998	3.852	8.3	22.3
2 21	11 27.46	− 3 24.0	2.922	3.850	5.8	22.1
3 2	11 20.96	− 2 44.2	2.874	3.848	3.1	21.9
3 12	11 14.02	− 1 57.2	2.857	3.846	1.7	21.8
3 22	11 7.23	− 1 6.8	2.870	3.843	3.8	22.0
4 1	11 1.15	− 0 17.1	2.914	3.839	6.5	22.1
4 11	10 56.26	+ 0 28.3	2.984	3.835	9.0	22.3

519624 2012 UX_{181} 3 8.6 92°.41 3°.7/12.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.46	−10 6.3	2.381	3.123	13.7	21.6
2 11	11 32.88	− 9 57.7	2.289	3.126	11.2	21.5
2 21	11 27.58	− 9 30.7	2.219	3.130	8.4	21.3
3 2	11 21.04	− 8 46.0	2.174	3.133	5.5	21.1
3 12	11 13.97	− 7 46.8	2.157	3.136	3.7	21.0
3 22	11 7.12	− 6 38.3	2.169	3.140	5.0	21.1
4 1	11 1.21	− 5 26.5	2.209	3.143	7.8	21.3
4 11	10 56.84	− 4 17.7	2.276	3.146	10.6	21.4

257587 1999 JR_{50} 3 8.6 354°.72 11°.0/28.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.05	+23 47.1	1.098	1.970	17.9	18.5
2 11	11 33.75	+25 27.4	1.043	1.961	14.5	18.3
2 21	11 29.07	+27 3.9	1.008	1.953	11.8	18.1
3 2	11 21.83	+28 21.1	0.994	1.948	11.1	18.0
3 12	11 13.56	+29 5.1	1.002	1.944	13.0	18.1
3 22	11 5.94	+29 8.5	1.029	1.942	16.2	18.3
4 1	11 0.49	+28 31.0	1.075	1.943	19.8	18.5
4 11	10 58.13	+27 18.1	1.137	1.945	23.0	18.7

173148 1995 VX_3 3 8.6 109°.44 4°.8/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.17	+18 53.0	2.405	3.229	11.1	20.1
2 11	11 35.62	+19 50.6	2.338	3.235	8.6	20.0
2 21	11 29.28	+20 48.1	2.297	3.241	6.1	19.8
3 2	11 21.70	+21 39.1	2.284	3.247	4.9	19.8
3 12	11 13.65	+22 17.8	2.299	3.253	5.8	19.8
3 22	11 5.95	+22 40.5	2.343	3.259	8.1	20.0
4 1	10 59.35	+22 45.2	2.412	3.265	10.6	20.2
4 11	10 54.42	+22 32.2	2.503	3.271	12.9	20.3

94481 2001 UO_4 3 8.6 100°.76 4°.8/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 46.43	+13 36.8	1.491	2.324	16.3	20.2
2 11	11 41.31	+14 30.4	1.431	2.335	12.4	20.0
2 21	11 33.36	+15 29.5	1.392	2.346	8.2	19.7
3 2	11 23.42	+16 25.0	1.379	2.358	5.0	19.6
3 12	11 12.76	+17 7.7	1.393	2.369	6.0	19.7
3 22	11 2.77	+17 31.1	1.433	2.379	9.7	19.9
4 1	10 54.66	+17 32.4	1.498	2.390	13.7	20.2
4 11	10 49.21	+17 12.3	1.583	2.400	17.1	20.4

83196 2001 RV_1 3 8.6 108°.81 0°.4/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.89	− 0 28.7	2.418	3.204	12.3	20.3
2 11	11 33.08	+ 0 16.3	2.337	3.215	9.5	20.1
2 21	11 27.63	+ 1 14.8	2.281	3.225	6.2	19.9
3 2	11 21.05	+ 2 23.1	2.253	3.236	2.6	19.7
3 12	11 14.00	+ 3 35.7	2.255	3.247	1.2	19.6
3 22	11 7.23	+ 4 47.0	2.286	3.257	4.7	19.9
4 1	11 1.42	+ 5 51.4	2.346	3.267	8.0	20.1
4 11	10 57.10	+ 6 44.8	2.432	3.277	10.9	20.3

384189 2009 BJ_{103} 3 8.6 65°.93 3°.2/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.91	− 5 36.0	2.150	2.913	14.3	20.8
2 11	11 36.37	− 5 54.0	2.069	2.923	11.5	20.6
2 21	11 29.87	− 5 56.6	2.009	2.934	8.3	20.4
3 2	11 21.97	− 5 44.5	1.976	2.945	5.0	20.2
3 12	11 13.51	− 5 20.6	1.971	2.955	3.2	20.1
3 22	11 5.36	− 4 48.9	1.995	2.966	5.2	20.3
4 1	10 58.35	− 4 14.7	2.046	2.977	8.4	20.5
4 11	10 53.13	− 3 43.0	2.122	2.988	11.5	20.7

175384 2006 KF_{79} 3 8.6 234.°11 0.°8/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.71	+ 3 36.1	1.986	2.788	14.0	21.2
2 11	11 37.34	+ 4 17.8	1.887	2.775	10.8	21.0
2 21	11 30.73	+ 5 13.6	1.811	2.762	7.0	20.7
3 2	11 22.41	+ 6 18.8	1.763	2.748	2.7	20.4
3 12	11 13.24	+ 7 27.0	1.743	2.734	2.1	20.3
3 22	11 4.23	+ 8 30.8	1.753	2.719	6.4	20.6
4 1	10 56.38	+ 9 24.0	1.790	2.703	10.6	20.8
4 11	10 50.49	+10 2.2	1.850	2.687	14.2	21.0

171031 2005 EK_{61} 3 8.6 14.°83 3.°7/11.4 18

2 1	11 37.46	− 5 40.9	1.275	2.082	20.0	19.8
2 11	11 34.96	− 5 45.5	1.203	2.085	16.1	19.6
2 21	11 29.57	− 5 23.7	1.150	2.089	11.5	19.3
3 2	11 22.00	− 4 37.0	1.118	2.094	6.6	19.0
3 12	11 13.49	− 3 31.3	1.111	2.099	3.7	18.9
3 22	11 5.42	− 2 16.2	1.128	2.106	7.1	19.1
4 1	10 59.12	− 1 2.5	1.169	2.113	11.9	19.4
4 11	10 55.50	+ 0 0.3	1.231	2.121	16.4	19.7

489873 2008 GK_{78} 3 8.6 199.°53 2.°9/ 5.3 17

2 1	11 41.20	+10 45.0	2.279	3.093	12.0	22.2
2 11	11 36.58	+11 42.7	2.193	3.090	9.1	22.0
2 21	11 30.02	+12 47.4	2.133	3.086	5.9	21.8
3 2	11 22.06	+13 53.2	2.100	3.081	3.2	21.6
3 12	11 13.48	+14 53.6	2.098	3.076	3.9	21.6
3 22	11 5.14	+15 42.8	2.124	3.070	7.0	21.8
4 1	10 57.87	+16 16.9	2.178	3.064	10.3	22.0
4 11	10 52.33	+16 34.1	2.256	3.057	13.1	22.2

58176 1990 SN_{16} 3 8.6 143.°36 1.°5/ 7.2 18

2 1	11 45.78	+ 6 18.6	1.888	2.693	14.5	19.4
2 11	11 40.28	+ 6 57.6	1.815	2.706	11.0	19.2
2 21	11 32.47	+ 7 47.2	1.765	2.717	7.0	19.0
3 2	11 23.04	+ 8 41.7	1.743	2.728	2.8	18.8
3 12	11 12.99	+ 9 34.4	1.750	2.738	2.7	18.8
3 22	11 3.38	+10 18.8	1.786	2.747	6.8	19.1
4 1	10 55.22	+10 50.4	1.849	2.756	10.7	19.3
4 11	10 49.19	+11 6.6	1.936	2.764	14.0	19.5

424646 2008 OD_{21} 3 8.6 287.°81 2.°3/10.3 17

2 1	11 43.26	− 1 25.4	1.880	2.665	15.3	20.7
2 11	11 38.70	− 1 47.3	1.777	2.650	12.2	20.5
2 21	11 31.72	− 1 55.7	1.697	2.635	8.5	20.2
3 2	11 22.86	− 1 51.3	1.642	2.620	4.5	20.0
3 12	11 13.02	− 1 37.0	1.615	2.605	2.4	19.8
3 22	11 3.31	− 1 17.2	1.617	2.590	5.9	20.0
4 1	10 54.82	− 0 56.9	1.645	2.575	10.2	20.2
4 11	10 48.43	− 0 41.1	1.697	2.561	14.0	20.4

521179 2015 FW_{410} 3 8.6 65.°25 0.°1/ 8.4 17

2 1	11 41.42	+ 4 9.5	2.211	3.009	12.9	21.0
2 11	11 36.70	+ 4 14.6	2.128	3.013	9.9	20.8
2 21	11 30.06	+ 4 28.8	2.068	3.017	6.4	20.6
3 2	11 22.06	+ 4 49.2	2.035	3.020	2.6	20.3
3 12	11 13.50	+ 5 11.6	2.032	3.024	1.4	20.2
3 22	11 5.23	+ 5 31.8	2.059	3.028	5.3	20.5
4 1	10 58.08	+ 5 46.0	2.113	3.032	8.9	20.7
4 11	10 52.69	+ 5 51.6	2.191	3.036	12.0	20.9

133878 2004 PX_{55} 3 8.6 164.°40 1.°2/ 9.7 18

2 1	11 42.56	− 1 58.6	1.808	2.595	15.7	20.5
2 11	11 38.03	− 1 29.9	1.724	2.600	12.3	20.3
2 21	11 31.16	− 0 42.6	1.662	2.604	8.3	20.1
3 2	11 22.57	+ 0 19.9	1.626	2.608	3.9	19.8
3 12	11 13.22	+ 1 31.1	1.619	2.611	1.7	19.6
3 22	11 4.21	+ 2 43.5	1.640	2.613	5.9	19.9
4 1	10 56.56	+ 3 49.5	1.688	2.615	10.2	20.2
4 11	10 51.04	+ 4 43.2	1.761	2.616	14.0	20.4

87184 2000 OC_{10} 3 8.6 189.°38 0.°2/ 8.8 18

2 1	11 41.01	+ 1 15.8	2.415	3.199	12.3	20.6
2 11	11 36.30	+ 1 44.2	2.321	3.198	9.5	20.4
2 21	11 29.78	+ 2 24.6	2.252	3.196	6.2	20.2
3 2	11 21.96	+ 3 13.7	2.210	3.194	2.6	19.9
3 12	11 13.55	+ 4 6.9	2.199	3.191	1.2	19.8
3 22	11 5.34	+ 4 59.0	2.218	3.188	5.0	20.1
4 1	10 58.12	+ 5 45.2	2.266	3.184	8.5	20.3
4 11	10 52.50	+ 6 21.5	2.339	3.179	11.5	20.5

213022 1995 VG_{17} 3 8.6 194.°11 3.°6/ 5.3 18

2 1	11 43.71	+11 58.5	1.854	2.676	14.0	20.8
2 11	11 38.90	+12 49.2	1.775	2.675	10.6	20.6
2 21	11 31.71	+13 46.7	1.719	2.673	7.0	20.3
3 2	11 22.79	+14 43.9	1.691	2.671	3.9	20.1
3 12	11 13.12	+15 33.2	1.691	2.669	4.7	20.2
3 22	11 3.81	+16 8.2	1.719	2.666	8.3	20.4
4 1	10 55.90	+16 25.2	1.773	2.663	12.0	20.6
4 11	10 50.17	+16 23.0	1.849	2.660	15.2	20.8

373242 2012 GC_7 3 8.6 58.°95 7.°9/16.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 35.13	−21 47.9	1.058	1.809	26.6	20.5
2 11	11 33.78	−20 51.0	0.986	1.818	22.8	20.3
2 21	11 29.10	−18 56.1	0.929	1.828	18.1	20.0
3 2	11 21.88	−16 0.3	0.889	1.838	12.8	19.7
3 12	11 13.60	−12 13.2	0.873	1.849	8.5	19.5
3 22	11 5.94	− 7 57.2	0.883	1.859	8.8	19.6
4 1	11 0.41	− 3 41.4	0.918	1.870	13.2	19.8
4 11	10 58.00	+ 0 7.9	0.976	1.881	18.3	20.2

331768 2003 BC_3 3 8.6 346.°32 15.°5/14.3 16

2 1	11 22.33	+27 39.9	1.012	1.903	17.4	19.0
2 11	11 24.44	+33 0.0	0.965	1.881	15.7	18.9
2 21	11 23.42	+38 18.2	0.945	1.862	16.1	18.8
3 2	11 19.74	+43 0.9	0.950	1.845	18.6	18.9
3 12	11 14.65	+46 41.9	0.976	1.830	21.9	19.0
3 22	11 9.87	+49 9.3	1.019	1.818	25.3	19.2
4 1	11 7.19	+50 23.8	1.074	1.808	28.1	19.4
4 11	11 7.87	+50 34.4	1.136	1.801	30.4	19.6

80124 1999 RF_{171} 3 8.6 163.°67 1.°1/ 7.8 18

2 1	11 45.79	+ 5 8.2	1.415	2.235	17.7	20.3
2 11	11 41.13	+ 5 30.1	1.339	2.237	13.6	20.1
2 21	11 33.48	+ 6 6.3	1.284	2.239	8.8	19.8
3 2	11 23.58	+ 6 51.4	1.254	2.240	3.5	19.5
3 12	11 12.71	+ 7 37.3	1.251	2.241	2.6	19.4
3 22	11 2.31	+ 8 16.1	1.274	2.242	7.9	19.7
4 1	10 53.74	+ 8 41.6	1.322	2.243	12.9	20.0
4 11	10 47.94	+ 8 50.1	1.391	2.243	17.1	20.3

372639 2009 VS_{104} 3 8.6 96.°28 1.°2/ 9.9 18

2 1	11 38.18	− 3 37.5	2.026	2.807	14.5	21.1
2 11	11 34.35	− 2 43.9	1.951	2.823	11.3	20.9
2 21	11 28.59	− 1 31.5	1.899	2.838	7.6	20.7
3 2	11 21.48	− 0 4.7	1.874	2.854	3.6	20.5
3 12	11 13.85	+ 1 29.8	1.878	2.870	1.5	20.4
3 22	11 6.59	+ 3 4.0	1.911	2.885	5.2	20.6
4 1	11 0.50	+ 4 30.4	1.973	2.900	9.0	20.9
4 11	10 56.19	+ 5 43.3	2.060	2.914	12.3	21.1

428978 2008 YP_{160} 3 8.6 314.°99 1.°1/ 7.3 17

2 1	11 36.25	+ 4 19.3	2.279	3.086	12.2	21.0
2 11	11 32.79	+ 5 13.1	2.193	3.085	9.3	20.8
2 21	11 27.57	+ 6 18.6	2.131	3.084	5.9	20.6
3 2	11 21.08	+ 7 31.0	2.098	3.084	2.3	20.3
3 12	11 14.05	+ 8 44.0	2.094	3.083	2.1	20.3
3 22	11 7.24	+ 9 51.5	2.119	3.082	5.7	20.5
4 1	11 1.42	+10 48.1	2.172	3.082	9.2	20.7
4 11	10 57.17	+11 30.3	2.249	3.081	12.2	20.9

82026 2000 SG_{68} 3 8.6 212.°46 2.°3/ 5.7 18

2 1	11 38.59	+10 43.4	2.740	3.551	10.3	20.1
2 11	11 34.28	+11 26.2	2.651	3.546	7.8	19.9
2 21	11 28.39	+12 14.1	2.588	3.540	5.0	19.7
3 2	11 21.39	+13 2.8	2.553	3.535	2.6	19.6
3 12	11 13.89	+13 47.6	2.548	3.529	3.1	19.6
3 22	11 6.59	+14 24.1	2.574	3.522	5.8	19.7
4 1	11 0.13	+14 49.2	2.627	3.516	8.6	19.9
4 11	10 55.07	+15 1.4	2.705	3.509	11.1	20.1

212926 2008 AD_{43} 3 8.6 247.°59 2.°8/ 4.9 18

2 1	11 36.82	+10 48.9	2.423	3.243	11.2	20.4
2 11	11 33.15	+11 51.3	2.339	3.239	8.4	20.2
2 21	11 27.77	+13 0.4	2.281	3.235	5.5	20.0
3 2	11 21.16	+14 10.7	2.250	3.231	3.0	19.8
3 12	11 14.01	+15 15.8	2.250	3.227	3.8	19.9
3 22	11 7.08	+16 10.3	2.278	3.223	6.7	20.0
4 1	11 1.09	+16 50.2	2.334	3.219	9.7	20.2
4 11	10 56.63	+17 13.6	2.413	3.215	12.4	20.4

374055 2004 PY_{70} 3 8.6 167.°65 2.°7/ 4.8 17

2 1	11 39.79	+10 24.5	2.671	3.479	10.6	21.9
2 11	11 35.19	+11 41.4	2.591	3.485	8.0	21.7
2 21	11 28.97	+13 4.9	2.538	3.490	5.1	21.6
3 2	11 21.62	+14 29.2	2.515	3.495	2.9	21.4
3 12	11 13.78	+15 48.0	2.523	3.499	3.7	21.5
3 22	11 6.17	+16 56.0	2.562	3.502	6.4	21.7
4 1	10 59.47	+17 49.2	2.629	3.504	9.1	21.8
4 11	10 54.21	+18 25.9	2.720	3.505	11.6	22.0

425905 2011 FB_{115} 3 8.6 255.°96 2.°2/10.7 17

2 1	11 41.06	− 3 20.8	2.278	3.047	13.4	21.5
2 11	11 36.61	− 3 23.3	2.169	3.031	10.7	21.3
2 21	11 30.17	− 3 11.7	2.082	3.015	7.5	21.0
3 2	11 22.19	− 2 46.9	2.022	2.997	4.1	20.8
3 12	11 13.44	− 2 12.3	1.991	2.980	2.3	20.6
3 22	11 4.77	− 1 32.0	1.989	2.962	5.1	20.8
4 1	10 57.06	− 0 51.4	2.016	2.944	8.7	21.0
4 11	10 51.04	− 0 15.4	2.068	2.926	12.1	21.1

89579 2001 XE_{127} 3 8.6 263°.25 1°.5/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 39.99	− 2 21.4	2.041	2.823	14.3	20.0
2 11	11 36.06	− 2 1.5	1.931	2.804	11.4	19.8
2 21	11 29.95	− 1 24.5	1.844	2.784	7.8	19.5
3 2	11 22.15	− 0 32.5	1.783	2.763	3.8	19.2
3 12	11 13.46	+ 0 29.9	1.751	2.742	1.7	19.0
3 22	11 4.83	+ 1 36.4	1.747	2.721	5.6	19.2
4 1	10 57.24	+ 2 40.0	1.771	2.699	9.7	19.4
4 11	10 51.52	+ 3 34.4	1.819	2.677	13.5	19.6

364752 2007 VT_{313} 3 8.6 107°.02 0°.4/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.78	+ 3 13.9	1.820	2.622	15.1	21.5
2 11	11 38.77	+ 3 45.4	1.752	2.640	11.5	21.3
2 21	11 31.50	+ 4 30.0	1.707	2.657	7.4	21.1
3 2	11 22.66	+ 5 22.8	1.689	2.674	2.9	20.9
3 12	11 13.26	+ 6 17.2	1.699	2.691	1.8	20.8
3 22	11 4.35	+ 7 6.5	1.738	2.707	6.2	21.1
4 1	10 56.89	+ 7 45.5	1.805	2.722	10.2	21.4
4 11	10 51.55	+ 8 10.8	1.894	2.737	13.7	21.7

426850 2013 VB_{21} 3 8.6 158°.56 3°.4/ 4.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.09	+13 52.7	2.547	3.361	10.9	21.7
2 11	11 36.23	+14 52.3	2.473	3.368	8.2	21.6
2 21	11 29.66	+15 55.3	2.425	3.375	5.5	21.4
3 2	11 21.90	+16 56.3	2.406	3.381	3.5	21.3
3 12	11 13.66	+17 49.2	2.417	3.387	4.3	21.4
3 22	11 5.72	+18 29.7	2.458	3.392	6.9	21.5
4 1	10 58.79	+18 54.9	2.526	3.396	9.6	21.7
4 11	10 53.43	+19 3.9	2.618	3.400	12.0	21.9

133829 2003 XG_{29} 3 8.6 148°.61 0°.6/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.24	+ 0 18.1	2.289	3.076	12.8	20.9
2 11	11 35.02	+ 0 40.2	2.202	3.080	9.9	20.7
2 21	11 28.99	+ 1 15.0	2.140	3.083	6.6	20.5
3 2	11 21.67	+ 1 59.5	2.104	3.087	2.9	20.3
3 12	11 13.79	+ 2 49.1	2.098	3.090	1.2	20.1
3 22	11 6.18	+ 3 38.5	2.122	3.093	4.9	20.4
4 1	10 59.59	+ 4 22.7	2.173	3.096	8.5	20.6
4 11	10 54.63	+ 4 57.8	2.250	3.099	11.6	20.8

332379 2007 FJ_{18} 3 8.6 289°.25 2°.2/ 6.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.18	+ 5 5.5	1.882	2.700	14.0	21.3
2 11	11 34.15	+ 6 25.6	1.773	2.672	10.7	21.1
2 21	11 28.86	+ 8 3.7	1.688	2.644	6.9	20.8
3 2	11 21.77	+ 9 53.5	1.630	2.616	3.0	20.5
3 12	11 13.68	+11 45.7	1.602	2.587	3.5	20.4
3 22	11 5.62	+13 30.3	1.602	2.559	7.8	20.6
4 1	10 58.62	+14 58.4	1.628	2.530	12.2	20.8
4 11	10 53.59	+16 4.4	1.676	2.501	16.0	21.0

271727 2004 RO_{246} 3 8.6 102°.21 1°.4/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.61	− 2 32.2	1.989	2.775	14.5	20.7
2 11	11 34.80	− 2 3.2	1.907	2.781	11.4	20.5
2 21	11 28.97	− 1 17.0	1.848	2.788	7.7	20.3
3 2	11 21.68	− 0 16.9	1.814	2.795	3.7	20.1
3 12	11 13.79	+ 0 51.7	1.809	2.801	1.6	19.9
3 22	11 6.21	+ 2 1.8	1.833	2.807	5.3	20.2
4 1	10 59.81	+ 3 6.7	1.885	2.813	9.2	20.4
4 11	10 55.24	+ 4 0.8	1.960	2.820	12.6	20.7

309113 2006 WP_{120} 3 8.6 134°.71 1°.4/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.34	− 2 10.4	1.833	2.622	15.5	21.1
2 11	11 36.31	− 1 46.2	1.750	2.627	12.1	20.8
2 21	11 30.05	− 1 4.0	1.690	2.631	8.2	20.6
3 2	11 22.15	− 0 6.8	1.655	2.636	3.9	20.4
3 12	11 13.55	+ 0 59.2	1.648	2.640	1.7	20.2
3 22	11 5.28	+ 2 7.0	1.670	2.644	5.7	20.5
4 1	10 58.31	+ 3 9.4	1.719	2.648	9.9	20.7
4 11	10 53.37	+ 4 0.4	1.791	2.651	13.5	21.0

28803 Roe 3 8.6 102°.11 6°.6/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.37	+17 57.8	1.767	2.605	13.9	18.8
2 11	11 36.44	+19 49.3	1.709	2.614	10.7	18.6
2 21	11 30.15	+21 43.3	1.677	2.623	7.8	18.5
3 2	11 22.18	+23 28.8	1.671	2.633	6.6	18.4
3 12	11 13.55	+24 55.6	1.694	2.642	8.1	18.5
3 22	11 5.38	+25 56.8	1.742	2.650	10.9	18.7
4 1	10 58.68	+26 29.4	1.814	2.659	13.9	18.9
4 11	10 54.16	+26 34.6	1.905	2.668	16.6	19.1

188274 2003 AS_{48} 3 8.6 63°.05 8°.9/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.22	+23 48.9	1.594	2.436	14.9	19.7
2 11	11 38.10	+25 37.6	1.549	2.449	11.9	19.5
2 21	11 31.29	+27 21.6	1.527	2.462	9.6	19.4
3 2	11 22.63	+28 48.9	1.531	2.475	8.9	19.4
3 12	11 13.34	+29 49.4	1.560	2.488	10.4	19.5
3 22	11 4.70	+30 18.3	1.613	2.501	12.9	19.7
4 1	10 57.83	+30 15.1	1.688	2.515	15.7	19.9
4 11	10 53.45	+29 43.5	1.781	2.528	18.1	20.1

408236 2013 EU_{102} 3 8.6 306°.41 0°.6/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.64	+ 4 3.9	1.404	2.229	17.5	21.1
2 11	11 38.15	+ 4 20.5	1.318	2.218	13.6	20.8
2 21	11 31.71	+ 4 52.9	1.252	2.206	8.9	20.5
3 2	11 22.97	+ 5 36.5	1.209	2.195	3.5	20.2
3 12	11 13.08	+ 6 23.9	1.193	2.184	2.3	20.0
3 22	11 3.47	+ 7 6.8	1.202	2.174	7.9	20.3
4 1	10 55.50	+ 7 38.0	1.236	2.164	13.0	20.6
4 11	10 50.22	+ 7 52.6	1.290	2.154	17.5	20.8

500036 2011 SZ_{110} 3 8.6 213°.43 3°.6/13.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.72	−10 40.0	2.843	3.568	12.0	21.8
2 11	11 33.64	−10 41.5	2.737	3.562	9.9	21.6
2 21	11 28.02	−10 27.5	2.653	3.556	7.5	21.4
3 2	11 21.28	− 9 58.4	2.596	3.549	5.1	21.2
3 12	11 14.01	− 9 16.1	2.567	3.542	3.7	21.1
3 22	11 6.86	− 8 24.4	2.569	3.535	4.6	21.2
4 1	11 0.49	− 7 27.7	2.599	3.528	7.0	21.3
4 11	10 55.43	− 6 31.3	2.656	3.520	9.5	21.5

184290 2005 CV_{61} 3 8.6 326°.30 0°.8/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.53	+ 0 58.1	1.373	2.196	18.0	20.4
2 11	11 35.82	+ 1 5.4	1.284	2.181	14.1	20.1
2 21	11 30.24	+ 1 31.6	1.216	2.168	9.4	19.8
3 2	11 22.39	+ 2 13.7	1.170	2.155	4.1	19.5
3 12	11 13.39	+ 3 4.9	1.150	2.142	1.8	19.3
3 22	11 4.60	+ 3 57.0	1.155	2.131	7.4	19.6
4 1	10 57.42	+ 4 41.3	1.184	2.120	12.7	19.8
4 11	10 52.86	+ 5 11.4	1.234	2.110	17.3	20.1

13212 Jayleno 3 8.6 291°.46 1°.0/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.96	− 0 51.6	1.636	2.441	16.4	18.4
2 11	11 35.76	− 0 29.0	1.537	2.423	12.9	18.1
2 21	11 30.02	+ 0 13.3	1.459	2.406	8.7	17.8
3 2	11 22.26	+ 1 12.4	1.406	2.389	4.0	17.5
3 12	11 13.47	+ 2 22.0	1.380	2.372	1.7	17.3
3 22	11 4.79	+ 3 34.0	1.380	2.355	6.6	17.6
4 1	10 57.44	+ 4 39.5	1.407	2.338	11.5	17.8
4 11	10 52.35	+ 5 31.7	1.455	2.321	15.8	18.0

224400 2005 UM_{276} 3 8.6 100°.49 0°.8/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.65	+ 0 0.0	1.876	2.672	14.9	20.9
2 11	11 36.47	+ 0 20.1	1.797	2.679	11.6	20.7
2 21	11 30.10	+ 0 55.5	1.740	2.685	7.7	20.5
3 2	11 22.16	+ 1 42.8	1.709	2.692	3.4	20.2
3 12	11 13.58	+ 2 36.4	1.707	2.699	1.5	20.1
3 22	11 5.35	+ 3 29.7	1.733	2.706	5.7	20.4
4 1	10 58.40	+ 4 16.8	1.786	2.712	9.7	20.7
4 11	10 53.45	+ 4 52.8	1.862	2.719	13.3	20.9

358 Apollonia 3 8.6 84°.34 0°.1/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.26	+ 1 12.4	2.057	2.853	13.7	13.8
2 11	11 35.14	+ 1 48.1	1.985	2.869	10.5	13.6
2 21	11 29.09	+ 2 37.3	1.937	2.884	6.8	13.4
3 2	11 21.72	+ 3 35.9	1.915	2.900	2.8	13.2
3 12	11 13.84	+ 4 37.8	1.923	2.915	1.4	13.1
3 22	11 6.33	+ 5 37.0	1.960	2.930	5.4	13.4
4 1	11 0.01	+ 6 27.8	2.024	2.945	9.1	13.7
4 11	10 55.47	+ 7 6.4	2.112	2.960	12.3	13.9

301155 2008 YO_{17} 3 8.6 108°.75 3°.2/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.55	+ 9 5.0	1.685	2.506	15.3	21.4
2 11	11 39.53	+10 13.6	1.626	2.526	11.5	21.2
2 21	11 32.07	+11 31.7	1.590	2.545	7.3	21.0
3 2	11 22.93	+12 51.3	1.581	2.564	3.6	20.8
3 12	11 13.23	+14 3.1	1.601	2.583	4.4	20.9
3 22	11 4.10	+14 59.8	1.649	2.600	8.2	21.1
4 1	10 56.58	+15 36.9	1.722	2.617	12.0	21.4
4 11	10 51.36	+15 53.1	1.817	2.634	15.3	21.6

523823 2015 BG_{311} 3 8.6 132°.87 1°.9/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.74	− 5 31.5	3.018	3.756	11.1	24.1
2 11	11 37.12	− 5 7.8	2.936	3.780	8.8	23.9
2 21	11 30.07	− 4 31.2	2.880	3.802	6.2	23.8
3 2	11 22.05	− 3 43.8	2.852	3.824	3.4	23.6
3 12	11 13.68	− 2 49.1	2.856	3.844	1.9	23.5
3 22	11 5.59	− 1 51.1	2.892	3.863	3.8	23.7
4 1	10 58.38	− 0 54.4	2.959	3.881	6.5	23.9
4 11	10 52.51	− 0 2.7	3.054	3.898	9.0	24.1

14915 1993 UM_{8} 3 8.6 71°.27 2°.5/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.21	− 7 23.5	1.722	2.499	16.8	18.1
2 11	11 34.02	− 6 33.9	1.644	2.510	13.4	17.9
2 21	11 28.60	− 5 19.0	1.588	2.521	9.4	17.6
3 2	11 21.58	− 3 42.3	1.557	2.532	5.1	17.4
3 12	11 13.91	− 1 51.4	1.553	2.543	2.5	17.3
3 22	11 6.62	+ 0 3.6	1.578	2.554	5.7	17.5
4 1	11 0.67	+ 1 52.6	1.630	2.565	9.9	17.7
4 11	10 56.77	+ 3 27.2	1.706	2.576	13.6	18.0

246220 2007 RK_{186} 3 8.6 224.°71 0.°9/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 42.01	− 1 7.5	1.899	2.687	15.1	21.8
2 11	11 37.69	− 0 38.3	1.801	2.678	11.8	21.5
2 21	11 31.06	+ 0 8.6	1.724	2.667	8.0	21.3
3 2	11 22.63	+ 1 10.2	1.674	2.656	3.6	21.0
3 12	11 13.33	+ 2 20.5	1.653	2.645	1.5	20.8
3 22	11 4.20	+ 3 32.2	1.660	2.633	6.0	21.1
4 1	10 56.28	+ 4 37.9	1.695	2.620	10.3	21.3
4 11	10 50.40	+ 5 31.5	1.754	2.607	14.1	21.5

102726 1999 VX_{100} 3 8.6 134.°30 0.°1/ 8.7 18

2 1	11 43.30	+ 1 27.7	1.999	2.790	14.3	21.3
2 11	11 38.30	+ 1 59.0	1.923	2.803	11.0	21.1
2 21	11 31.18	+ 2 44.0	1.870	2.816	7.2	20.9
3 2	11 22.59	+ 3 38.6	1.844	2.829	2.9	20.7
3 12	11 13.41	+ 4 36.9	1.848	2.840	1.4	20.6
3 22	11 4.62	+ 5 32.4	1.881	2.851	5.7	20.9
4 1	10 57.12	+ 6 19.7	1.943	2.861	9.6	21.2
4 11	10 51.58	+ 6 54.7	2.028	2.871	12.9	21.4

439740 2015 FU_{286} 3 8.6 17.°84 27.°9/14.2 16

2 1	12 13.93	+58 50.4	0.935	1.704	28.2	20.4
2 11	12 7.02	+60 57.3	0.928	1.706	27.9	20.3
2 21	11 51.66	+62 11.6	0.932	1.710	28.0	20.4
3 2	11 30.78	+62 13.2	0.946	1.714	28.4	20.4
3 12	11 9.61	+60 53.3	0.970	1.720	29.2	20.5
3 22	10 52.80	+58 19.0	1.004	1.727	30.2	20.6
4 1	10 42.53	+54 46.6	1.049	1.734	31.3	20.7
4 11	10 38.71	+50 35.5	1.102	1.742	32.3	20.9

398571 2011 WN_{17} 3 8.6 200.°61 5.°5/ 2.9 18

2 1	11 46.08	+17 55.2	2.093	2.912	12.7	22.2
2 11	11 40.58	+19 8.9	2.013	2.907	9.9	22.0
2 21	11 32.78	+20 24.9	1.958	2.902	7.1	21.8
3 2	11 23.28	+21 35.0	1.931	2.895	5.5	21.7
3 12	11 13.03	+22 31.2	1.933	2.888	6.6	21.7
3 22	11 3.09	+23 7.8	1.963	2.880	9.4	21.9
4 1	10 54.46	+23 21.9	2.019	2.871	12.5	22.1
4 11	10 47.90	+23 14.0	2.097	2.861	15.2	22.2

323130 2003 BK_{43} 3 8.6 56.°48 2.°6/10.8 18

2 1	11 40.27	− 4 22.4	1.582	2.373	17.4	20.2
2 11	11 36.49	− 4 13.7	1.514	2.388	13.8	20.0
2 21	11 30.24	− 3 43.8	1.465	2.403	9.6	19.8
3 2	11 22.25	− 2 55.4	1.441	2.418	5.1	19.5
3 12	11 13.59	− 1 54.5	1.444	2.434	2.7	19.4
3 22	11 5.41	− 0 48.7	1.474	2.450	6.1	19.7
4 1	10 58.77	+ 0 13.6	1.529	2.466	10.3	19.9
4 11	10 54.40	+ 1 5.8	1.608	2.482	14.1	20.2

133107 2003 OX_{10} 3 8.6 304.°23 0.°4/ 8.8 17

2 1	11 44.03	+ 3 29.7	1.368	2.189	18.1	19.6
2 11	11 40.35	+ 3 16.3	1.267	2.164	14.3	19.3
2 21	11 33.43	+ 3 16.6	1.186	2.139	9.6	19.0
3 2	11 23.81	+ 3 28.1	1.129	2.114	4.1	18.6
3 12	11 12.65	+ 3 45.6	1.097	2.089	2.0	18.3
3 22	11 1.48	+ 4 2.6	1.091	2.065	8.0	18.6
4 1	10 51.92	+ 4 12.5	1.108	2.041	13.7	18.9
4 11	10 45.25	+ 4 10.3	1.146	2.018	18.7	19.1

203420 2001 XC_{209} 3 8.6 94.°09 1.°8/ 7.0 18

2 1	11 44.30	+ 5 15.0	1.551	2.368	16.5	21.0
2 11	11 39.48	+ 6 14.2	1.493	2.390	12.5	20.8
2 21	11 32.10	+ 7 27.2	1.458	2.412	7.9	20.6
3 2	11 22.97	+ 8 46.4	1.448	2.434	3.2	20.4
3 12	11 13.25	+10 2.5	1.467	2.455	3.1	20.4
3 22	11 4.17	+11 7.1	1.514	2.476	7.6	20.7
4 1	10 56.80	+11 54.1	1.586	2.496	11.9	21.0
4 11	10 51.85	+12 21.2	1.680	2.516	15.4	21.3

413949 2007 AH_{14} 3 8.6 111.°48 1.°7/10.4 18

2 1	11 43.69	− 3 21.5	2.291	3.054	13.5	22.1
2 11	11 38.23	− 3 0.8	2.221	3.081	10.6	21.9
2 21	11 30.95	− 2 25.5	2.174	3.107	7.2	21.8
3 2	11 22.44	− 1 38.1	2.155	3.132	3.7	21.6
3 12	11 13.52	− 0 43.4	2.166	3.157	1.8	21.5
3 22	11 5.01	+ 0 13.3	2.208	3.180	4.7	21.7
4 1	10 57.67	+ 1 6.6	2.278	3.203	8.1	22.0
4 11	10 52.07	+ 1 52.0	2.375	3.224	11.0	22.2

111127 2001 VJ_{92} 3 8.6 70.°20 1.°8/10.5 18

2 1	11 37.65	− 5 17.1	1.744	2.529	16.3	19.8
2 11	11 34.29	− 4 27.2	1.671	2.543	12.9	19.6
2 21	11 28.74	− 3 14.5	1.619	2.557	8.8	19.4
3 2	11 21.63	− 1 43.2	1.593	2.572	4.4	19.2
3 12	11 13.92	− 0 0.9	1.595	2.586	1.9	19.0
3 22	11 6.62	+ 1 42.8	1.626	2.601	5.7	19.3
4 1	11 0.66	+ 3 18.8	1.683	2.616	9.8	19.6
4 11	10 56.72	+ 4 40.0	1.765	2.630	13.5	19.8

273844 2007 GZ_{41} 3 8.6 250.°67 0.°0/ 8.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.15	+ 1 52.5	2.326	3.116	12.5	21.8
2 11	11 35.89	+ 2 20.9	2.218	3.099	9.7	21.6
2 21	11 29.70	+ 3 1.8	2.134	3.081	6.4	21.4
3 2	11 22.05	+ 3 52.1	2.078	3.062	2.6	21.1
3 12	11 13.67	+ 4 46.9	2.051	3.043	1.3	21.0
3 22	11 5.37	+ 5 40.9	2.054	3.023	5.3	21.2
4 1	10 58.01	+ 6 28.6	2.085	3.003	9.1	21.4
4 11	10 52.28	+ 7 5.7	2.142	2.983	12.4	21.6

222640 2001 XY_{125} 3 8.6 202.°78 3.°3/12.3 17

2 1	11 40.39	− 8 46.3	2.413	3.154	13.5	21.5
2 11	11 35.95	− 8 37.4	2.310	3.149	11.1	21.3
2 21	11 29.66	− 8 10.8	2.229	3.144	8.1	21.1
3 2	11 22.01	− 7 27.1	2.175	3.138	5.1	20.9
3 12	11 13.71	− 6 29.6	2.149	3.131	3.3	20.8
3 22	11 5.55	− 5 23.1	2.153	3.124	5.0	20.9
4 1	10 58.35	− 4 13.7	2.186	3.116	8.0	21.0
4 11	10 52.75	− 3 7.6	2.245	3.107	11.1	21.2

192050 2006 AJ_{93} 3 8.6 267.°42 0.°7/ 9.3 17

2 1	11 40.35	+ 0 31.0	2.037	2.830	14.0	20.7
2 11	11 36.29	+ 0 45.2	1.936	2.816	11.0	20.5
2 21	11 30.08	+ 1 13.5	1.857	2.802	7.3	20.2
3 2	11 22.23	+ 1 53.1	1.804	2.787	3.3	19.9
3 12	11 13.58	+ 2 39.5	1.780	2.773	1.4	19.8
3 22	11 5.05	+ 3 26.7	1.785	2.758	5.6	20.0
4 1	10 57.63	+ 4 9.1	1.817	2.743	9.7	20.2
4 11	10 52.06	+ 4 41.9	1.874	2.728	13.3	20.4

16722 1995 WG_7 3 8.6 164.°89 5.°7/17.2 18

2 1	11 37.94	−20 28.0	3.161	3.812	12.2	19.3
2 11	11 33.68	−20 41.4	3.061	3.817	10.6	19.2
2 21	11 27.99	−20 36.9	2.981	3.822	8.8	19.1
3 2	11 21.28	−20 13.7	2.925	3.826	7.1	19.0
3 12	11 14.11	−19 32.7	2.896	3.830	5.9	18.9
3 22	11 7.10	−18 36.8	2.896	3.833	5.8	18.9
4 1	11 0.84	−17 30.3	2.924	3.836	7.0	19.0
4 11	10 55.83	−16 18.5	2.980	3.838	8.8	19.1

4851 Vodop′yanova 3 8.6 37.°98 7.°2/ 3.3 18

2 1	11 48.41	+22 5.2	1.636	2.467	15.2	16.6
2 11	11 42.76	+22 49.5	1.573	2.470	12.0	16.4
2 21	11 34.31	+23 29.8	1.533	2.475	8.9	16.2
3 2	11 23.89	+23 57.1	1.519	2.479	7.2	16.1
3 12	11 12.79	+24 3.5	1.530	2.483	8.3	16.2
3 22	11 2.36	+23 45.4	1.568	2.488	11.1	16.3
4 1	10 53.81	+23 3.0	1.630	2.493	14.4	16.6
4 11	10 47.89	+21 59.5	1.712	2.498	17.3	16.8

10688 Haghighipour 3 8.6 116.°92 3.°6/13.1 18

2 1	11 39.17	− 9 55.1	2.699	3.429	12.5	18.2
2 11	11 34.70	−10 1.7	2.613	3.442	10.2	18.0
2 21	11 28.67	− 9 53.0	2.550	3.455	7.7	17.9
3 2	11 21.55	− 9 29.3	2.513	3.468	5.1	17.7
3 12	11 13.98	− 8 53.1	2.505	3.481	3.6	17.6
3 22	11 6.65	− 8 8.2	2.526	3.493	4.7	17.7
4 1	11 0.21	− 7 19.2	2.577	3.505	7.0	17.9
4 11	10 55.19	− 6 30.9	2.653	3.517	9.6	18.1

464939 2005 UH_{325} 3 8.6 79.°99 1.°1/ 9.7 18

2 1	11 39.81	− 2 14.1	1.806	2.597	15.6	21.5
2 11	11 35.81	− 1 37.3	1.737	2.615	12.1	21.3
2 21	11 29.65	− 0 42.2	1.691	2.633	8.1	21.1
3 2	11 21.98	+ 0 27.2	1.670	2.651	3.7	20.9
3 12	11 13.77	+ 1 43.8	1.677	2.669	1.5	20.8
3 22	11 5.99	+ 3 0.1	1.713	2.687	5.6	21.1
4 1	10 59.57	+ 4 8.6	1.776	2.704	9.7	21.3
4 11	10 55.15	+ 5 4.0	1.863	2.722	13.2	21.6

291644 2006 HH_{39} 3 8.6 243.°91 1.°4/ 7.3 17

2 1	11 42.27	+ 5 1.7	1.881	2.689	14.4	22.2
2 11	11 37.98	+ 5 47.8	1.781	2.674	11.1	22.0
2 21	11 31.30	+ 6 47.9	1.705	2.658	7.1	21.7
3 2	11 22.77	+ 7 56.8	1.656	2.641	2.9	21.4
3 12	11 13.30	+ 9 7.1	1.635	2.624	2.6	21.3
3 22	11 3.97	+10 11.2	1.643	2.606	7.1	21.6
4 1	10 55.86	+11 2.4	1.678	2.588	11.4	21.8
4 11	10 49.82	+11 36.5	1.735	2.569	15.1	22.0

413817 2006 PN_{16} 3 8.6 163.°25 0.°4/ 8.2 16

2 1	11 46.79	+ 4 37.4	2.290	3.077	12.8	21.5
2 11	11 40.74	+ 4 49.3	2.205	3.084	9.9	21.3
2 21	11 32.68	+ 5 10.1	2.144	3.090	6.4	21.1
3 2	11 23.20	+ 5 36.4	2.111	3.096	2.5	20.9
3 12	11 13.13	+ 6 3.8	2.110	3.101	1.5	20.8
3 22	11 3.39	+ 6 28.1	2.139	3.105	5.4	21.1
4 1	10 54.83	+ 6 45.4	2.197	3.108	9.0	21.3
4 11	10 48.10	+ 6 53.3	2.280	3.111	12.1	21.5

334571 2002 TK_{100} 3 8.6 114°.58 2°.6/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.67	− 7 13.0	2.511	3.260	12.8	21.3
2 11	11 34.40	− 6 55.7	2.429	3.276	10.3	21.2
2 21	11 28.51	− 6 22.4	2.370	3.292	7.4	21.0
3 2	11 21.49	− 5 34.8	2.339	3.307	4.4	20.8
3 12	11 14.03	− 4 36.7	2.336	3.321	2.6	20.7
3 22	11 6.85	− 3 33.1	2.363	3.336	4.4	20.9
4 1	11 0.63	− 2 29.4	2.420	3.350	7.4	21.1
4 11	10 55.90	− 1 30.8	2.502	3.363	10.1	21.3

120756 1997 XN_{7} 3 8.6 153°.19 0°.7/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.33	− 0 19.0	1.832	2.623	15.4	21.0
2 11	11 38.59	+ 0 10.3	1.751	2.630	12.0	20.7
2 21	11 31.54	+ 0 56.3	1.693	2.637	7.9	20.5
3 2	11 22.79	+ 1 55.1	1.661	2.644	3.5	20.2
3 12	11 13.34	+ 3 0.4	1.657	2.649	1.5	20.1
3 22	11 4.25	+ 4 5.0	1.683	2.655	6.0	20.4
4 1	10 56.54	+ 5 1.9	1.735	2.659	10.2	20.7
4 11	10 50.94	+ 5 46.1	1.812	2.663	13.8	20.9

325154 2008 FQ_{4} 3 8.6 284°.99 2°.0/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.86	+ 8 6.0	1.732	2.552	14.9	21.4
2 11	11 38.60	+ 8 30.6	1.638	2.537	11.5	21.1
2 21	11 31.78	+ 9 5.0	1.567	2.521	7.4	20.8
3 2	11 22.98	+ 9 44.2	1.521	2.506	3.2	20.5
3 12	11 13.21	+10 21.2	1.503	2.491	3.2	20.5
3 22	11 3.64	+10 49.7	1.513	2.475	7.6	20.7
4 1	10 55.44	+11 4.6	1.548	2.460	12.0	20.9
4 11	10 49.51	+11 3.3	1.605	2.445	15.9	21.1

114857 2003 PE_{9} 3 8.6 150°.49 1°.3/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.57	+ 3 59.5	1.830	2.638	14.7	20.3
2 11	11 37.25	+ 4 59.5	1.753	2.645	11.2	20.1
2 21	11 30.66	+ 6 14.1	1.699	2.652	7.1	19.9
3 2	11 22.44	+ 7 37.2	1.672	2.658	2.8	19.6
3 12	11 13.53	+ 9 0.4	1.675	2.664	2.6	19.6
3 22	11 4.99	+10 15.6	1.705	2.669	6.8	19.9
4 1	10 57.80	+11 16.4	1.763	2.673	10.9	20.1
4 11	10 52.67	+11 58.9	1.844	2.677	14.4	20.4

518160 2016 GH_{259} 3 8.6 210°.67 2°.0/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.68	+ 8 20.0	2.343	3.153	11.8	22.0
2 11	11 35.41	+ 9 8.0	2.254	3.149	9.0	21.8
2 21	11 29.30	+10 4.2	2.190	3.144	5.7	21.5
3 2	11 21.87	+11 3.6	2.154	3.138	2.6	21.3
3 12	11 13.84	+12 0.3	2.148	3.133	3.0	21.3
3 22	11 6.02	+12 48.9	2.172	3.127	6.3	21.5
4 1	10 59.20	+13 25.1	2.223	3.120	9.6	21.7
4 11	10 54.01	+13 46.6	2.297	3.114	12.5	21.9

231438 2007 FT_{15} 3 8.6 350°.75 0°.6/ 9.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.75	+ 2 7.7	1.705	2.511	15.7	20.5
2 11	11 37.62	+ 2 8.8	1.621	2.510	12.2	20.3
2 21	11 31.04	+ 2 23.5	1.559	2.508	8.1	20.0
3 2	11 22.64	+ 2 48.6	1.523	2.507	3.5	19.7
3 12	11 13.43	+ 3 19.2	1.513	2.505	1.6	19.6
3 22	11 4.54	+ 3 49.3	1.532	2.505	6.3	19.9
4 1	10 57.06	+ 4 13.4	1.576	2.504	10.7	20.2
4 11	10 51.81	+ 4 27.3	1.643	2.504	14.5	20.4

383708 2007 TX_{449} 3 8.6 301°.15 4°.3/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.71	+15 14.1	2.143	2.970	12.2	20.8
2 11	11 35.62	+16 8.0	2.063	2.965	9.3	20.6
2 21	11 29.52	+17 5.4	2.008	2.960	6.3	20.4
3 2	11 21.97	+17 59.6	1.981	2.955	4.3	20.2
3 12	11 13.80	+18 44.1	1.981	2.950	5.3	20.3
3 22	11 5.91	+19 13.7	2.010	2.945	8.1	20.4
4 1	10 59.18	+19 25.5	2.064	2.940	11.2	20.6
4 11	10 54.25	+19 18.7	2.140	2.935	14.0	20.8

35982 1999 NJ_{4} 3 8.6 306°.42 3°.0/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.23	+ 7 44.1	1.369	2.208	17.1	19.0
2 11	11 36.53	+ 8 34.6	1.276	2.185	13.1	18.7
2 21	11 30.85	+ 9 41.4	1.204	2.163	8.5	18.4
3 2	11 22.74	+10 57.1	1.156	2.141	3.9	18.0
3 12	11 13.33	+12 11.2	1.133	2.119	4.5	18.0
3 22	11 4.05	+13 13.1	1.136	2.098	9.6	18.2
4 1	10 56.35	+13 54.3	1.162	2.077	14.8	18.4
4 11	10 51.38	+14 10.6	1.207	2.057	19.4	18.7

248860 2006 UM_{5} 3 8.6 109°.15 2°.8/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.15	+ 9 41.1	1.755	2.577	14.7	20.9
2 11	11 38.51	+10 25.6	1.685	2.585	11.1	20.7
2 21	11 31.49	+11 18.5	1.638	2.593	7.1	20.5
3 2	11 22.78	+12 13.1	1.617	2.600	3.4	20.3
3 12	11 13.40	+13 1.8	1.625	2.608	4.0	20.3
3 22	11 4.48	+13 38.4	1.660	2.615	7.8	20.5
4 1	10 57.04	+13 58.6	1.721	2.622	11.6	20.8
4 11	10 51.81	+14 0.9	1.804	2.629	15.0	21.0

81391 2000 GP_{79} 3 8.6 251°.79 0°.5/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.98	+ 4 1.8	2.349	3.149	12.2	20.3
2 11	11 34.91	+ 4 29.7	2.252	3.139	9.3	20.1
2 21	11 29.01	+ 5 8.0	2.180	3.130	6.0	19.8
3 2	11 21.77	+ 5 53.2	2.134	3.120	2.4	19.6
3 12	11 13.90	+ 6 40.4	2.119	3.110	1.6	19.5
3 22	11 6.20	+ 7 24.5	2.132	3.100	5.4	19.7
4 1	10 59.46	+ 8 0.9	2.174	3.089	8.9	19.9
4 11	10 54.32	+ 8 26.3	2.240	3.079	12.0	20.1

521161 2015 FB_{408} 3 8.6 248°.55 1°.3/ 7.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.42	+ 5 22.3	2.414	3.221	11.6	21.7
2 11	11 32.87	+ 6 14.9	2.326	3.218	8.8	21.5
2 21	11 27.64	+ 7 17.7	2.262	3.215	5.6	21.3
3 2	11 21.19	+ 8 26.4	2.226	3.211	2.3	21.0
3 12	11 14.21	+ 9 34.9	2.220	3.208	2.2	21.0
3 22	11 7.42	+10 37.6	2.243	3.204	5.6	21.2
4 1	11 1.56	+11 29.6	2.294	3.201	8.9	21.4
4 11	10 57.18	+12 7.8	2.370	3.197	11.8	21.6

508189 2015 FN_{321} 3 8.6 184°.82 5°.1/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.27	+23 43.9	3.096	3.910	9.1	21.4
2 11	11 35.44	+24 45.2	3.025	3.910	7.3	21.3
2 21	11 29.11	+25 43.8	2.981	3.910	5.7	21.2
3 2	11 21.74	+26 34.4	2.965	3.909	5.1	21.1
3 12	11 13.95	+27 12.2	2.979	3.907	6.0	21.2
3 22	11 6.40	+27 34.3	3.022	3.905	7.7	21.3
4 1	10 59.71	+27 39.4	3.090	3.903	9.6	21.4
4 11	10 54.38	+27 28.0	3.180	3.900	11.3	21.6

38200 1999 LR_{26} 3 8.6 251°.29 3°.4/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.79	− 6 34.3	1.719	2.493	16.9	18.7
2 11	11 37.06	− 6 30.7	1.621	2.483	13.7	18.4
2 21	11 30.82	− 6 5.0	1.543	2.472	9.9	18.2
3 2	11 22.62	− 5 17.8	1.490	2.461	5.8	17.9
3 12	11 13.44	− 4 13.4	1.463	2.450	3.4	17.7
3 22	11 4.41	− 2 58.8	1.464	2.438	6.3	17.8
4 1	10 56.69	− 1 42.8	1.491	2.427	10.6	18.1
4 11	10 51.19	− 0 33.9	1.542	2.415	14.6	18.3

222284 2000 SD_{92} 3 8.6 178°.75 5°.6/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.38	−14 30.7	2.124	2.843	15.8	20.4
2 11	11 35.46	−14 40.6	2.029	2.844	13.3	20.2
2 21	11 29.49	−14 27.8	1.954	2.845	10.5	20.0
3 2	11 22.00	−13 51.6	1.903	2.845	7.6	19.8
3 12	11 13.80	−12 54.2	1.879	2.845	5.8	19.7
3 22	11 5.82	−11 40.7	1.882	2.845	6.4	19.7
4 1	10 58.94	−10 18.3	1.913	2.844	8.9	19.9
4 11	10 53.88	− 8 55.1	1.970	2.844	11.9	20.1

427763 2004 TJ_{138} 3 8.6 122°.06 2°.4/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.09	− 4 27.0	2.269	3.031	13.7	22.1
2 11	11 37.18	− 4 26.4	2.188	3.045	10.9	21.9
2 21	11 30.40	− 4 10.9	2.129	3.058	7.6	21.7
3 2	11 22.30	− 3 42.1	2.098	3.071	4.2	21.5
3 12	11 13.68	− 3 3.6	2.096	3.084	2.4	21.4
3 22	11 5.37	− 2 20.1	2.123	3.096	4.8	21.6
4 1	10 58.18	− 1 36.8	2.179	3.107	8.1	21.8
4 11	10 52.70	− 0 58.4	2.260	3.119	11.2	22.0

245472 2005 NH_{41} 3 8.6 166°.08 0°.4/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.75	+ 0 54.4	2.632	3.417	11.4	21.5
2 11	11 33.70	+ 1 20.7	2.543	3.419	8.8	21.3
2 21	11 28.09	+ 1 58.0	2.477	3.421	5.8	21.1
3 2	11 21.36	+ 2 43.4	2.440	3.423	2.5	20.9
3 12	11 14.16	+ 3 32.7	2.433	3.425	1.1	20.8
3 22	11 7.17	+ 4 21.3	2.456	3.426	4.4	21.0
4 1	11 1.03	+ 5 4.9	2.507	3.428	7.6	21.2
4 11	10 56.30	+ 5 40.1	2.584	3.429	10.4	21.4

136075 2002 YD_{29} 3 8.6 144°.10 4°.4/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.73	+17 29.7	2.631	3.453	10.3	20.3
2 11	11 34.46	+18 44.1	2.564	3.461	7.9	20.1
2 21	11 28.57	+19 59.7	2.523	3.468	5.6	20.0
3 2	11 21.55	+21 10.5	2.510	3.475	4.4	19.9
3 12	11 14.08	+22 10.3	2.528	3.482	5.4	20.0
3 22	11 6.88	+22 55.0	2.574	3.488	7.6	20.1
4 1	11 0.63	+23 22.0	2.646	3.494	10.0	20.3
4 11	10 55.88	+23 31.1	2.741	3.499	12.1	20.4

426577 2013 SL_{22} 3 8.6 143°.98 3°.7/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.71	+12 31.5	2.010	2.835	13.0	20.7
2 11	11 36.45	+13 28.7	1.936	2.837	9.8	20.5
2 21	11 30.08	+14 31.6	1.885	2.839	6.5	20.3
3 2	11 22.22	+15 33.6	1.863	2.841	3.9	20.2
3 12	11 13.74	+16 27.4	1.868	2.843	4.7	20.2
3 22	11 5.60	+17 7.3	1.902	2.845	7.9	20.4
4 1	10 58.70	+17 29.5	1.961	2.847	11.2	20.6
4 11	10 53.72	+17 33.1	2.043	2.849	14.2	20.8

355257 2007 KM_8 3 8.6 243°.79 6°.0/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 44.90	+16 20.2	1.645	2.478	15.0	21.4
2 11	11 40.36	+17 36.4	1.563	2.466	11.6	21.1
2 21	11 33.03	+18 58.3	1.503	2.453	8.2	20.9
3 2	11 23.54	+20 15.9	1.469	2.440	6.1	20.7
3 12	11 13.02	+21 18.7	1.463	2.426	7.4	20.8
3 22	11 2.79	+21 58.8	1.483	2.412	10.9	21.0
4 1	10 54.13	+22 12.2	1.527	2.398	14.7	21.1
4 11	10 48.00	+21 59.1	1.591	2.383	18.1	21.3

140840 2001 UO_{193} 3 8.6 27°.95 5°.6/14.3 17

2 1	11 39.01	−12 58.8	2.187	2.914	15.1	19.4
2 11	11 35.09	−13 28.9	2.096	2.917	12.7	19.2
2 21	11 29.22	−13 39.4	2.026	2.919	10.0	19.0
3 2	11 21.89	−13 29.4	1.980	2.922	7.3	18.8
3 12	11 13.91	−13 0.5	1.960	2.926	5.6	18.7
3 22	11 6.13	−12 16.4	1.968	2.929	6.3	18.8
4 1	10 59.42	−11 22.9	2.003	2.932	8.7	18.9
4 11	10 54.46	−10 26.8	2.063	2.936	11.5	19.1

200146 1998 FS_{136} 3 8.6 305°.87 0°.9/ 7.9 17

2 1	11 44.66	+ 6 48.8	1.730	2.544	15.2	20.0
2 11	11 40.02	+ 6 44.0	1.633	2.527	11.8	19.7
2 21	11 32.75	+ 6 47.7	1.558	2.510	7.7	19.4
3 2	11 23.43	+ 6 56.3	1.509	2.494	3.1	19.1
3 12	11 13.09	+ 7 4.9	1.487	2.478	2.2	19.0
3 22	11 2.93	+ 7 8.6	1.494	2.462	7.0	19.2
4 1	10 54.16	+ 7 3.3	1.526	2.447	11.5	19.5
4 11	10 47.72	+ 6 46.6	1.582	2.432	15.5	19.7

47871 2000 FQ_{13} 3 8.6 100°.36 6°.6/ 1.8 18

2 1	11 42.87	+18 47.4	1.799	2.632	13.9	18.5
2 11	11 38.25	+20 28.5	1.749	2.650	10.7	18.3
2 21	11 31.29	+22 9.9	1.723	2.667	7.8	18.2
3 2	11 22.70	+23 41.3	1.725	2.685	6.6	18.1
3 12	11 13.55	+24 53.6	1.754	2.701	7.9	18.2
3 22	11 4.96	+25 40.9	1.809	2.718	10.6	18.4
4 1	10 57.90	+26 1.2	1.889	2.734	13.5	18.6
4 11	10 53.05	+25 56.2	1.988	2.749	16.0	18.9

341739 2007 VK_{255} 3 8.6 11°.86 4°.6/13.3 17

2 1	11 38.27	−10 26.3	2.145	2.889	14.9	20.4
2 11	11 34.56	−10 43.9	2.053	2.889	12.4	20.2
2 21	11 28.88	−10 42.6	1.983	2.890	9.4	20.0
3 2	11 21.76	−10 22.2	1.937	2.892	6.4	19.8
3 12	11 13.99	− 9 44.9	1.918	2.893	4.6	19.7
3 22	11 6.43	− 8 55.3	1.927	2.895	5.8	19.8
4 1	10 59.94	− 7 59.2	1.963	2.897	8.6	20.0
4 11	10 55.19	− 7 3.4	2.024	2.899	11.6	20.2

297852 2002 CL_{19} 3 8.6 88°.21 0°.0/ 8.4 18

2 1	11 46.27	+ 3 23.5	1.498	2.309	17.3	20.6
2 11	11 41.25	+ 3 29.5	1.429	2.321	13.4	20.4
2 21	11 33.44	+ 3 49.5	1.382	2.333	8.7	20.1
3 2	11 23.64	+ 4 19.3	1.359	2.344	3.5	19.9
3 12	11 13.07	+ 4 52.4	1.364	2.356	1.8	19.8
3 22	11 3.07	+ 5 22.4	1.396	2.368	7.0	20.1
4 1	10 54.85	+ 5 43.5	1.453	2.379	11.6	20.4
4 11	10 49.22	+ 5 52.0	1.533	2.390	15.6	20.7

346684 2008 YU_{78} 3 8.6 198°.39 1°.9/ 6.1 17

2 1	11 37.42	+ 7 32.8	2.462	3.272	11.3	21.0
2 11	11 33.61	+ 8 33.3	2.376	3.271	8.6	20.8
2 21	11 28.12	+ 9 42.7	2.315	3.269	5.4	20.6
3 2	11 21.42	+10 55.9	2.282	3.266	2.5	20.4
3 12	11 14.19	+12 6.8	2.280	3.264	2.9	20.5
3 22	11 7.17	+13 9.7	2.307	3.261	6.0	20.7
4 1	11 1.07	+14 0.2	2.362	3.258	9.1	20.8
4 11	10 56.46	+14 35.4	2.441	3.255	11.9	21.0

190714 2001 KX_5 3 8.6 260°.63 2°.3/10.4 17

2 1	11 41.79	− 3 48.8	1.576	2.366	17.5	21.0
2 11	11 38.15	− 3 33.0	1.473	2.349	14.1	20.7
2 21	11 31.76	− 2 54.3	1.391	2.331	9.8	20.4
3 2	11 23.12	− 1 54.2	1.333	2.312	5.1	20.1
3 12	11 13.26	− 0 38.3	1.302	2.293	2.4	19.8
3 22	11 3.46	+ 0 44.7	1.298	2.274	6.8	20.1
4 1	10 55.05	+ 2 5.0	1.320	2.254	11.8	20.3
4 11	10 49.09	+ 3 13.7	1.364	2.233	16.4	20.5

337693 2001 TC_{251} 3 8.6 101°.78 3°.8/ 4.6 17

2 1	11 41.63	+15 12.4	2.277	3.098	11.8	21.1
2 11	11 36.89	+15 52.4	2.203	3.101	9.0	20.9
2 21	11 30.25	+16 34.5	2.154	3.104	6.0	20.7
3 2	11 22.27	+17 13.1	2.132	3.107	3.9	20.6
3 12	11 13.78	+17 42.7	2.140	3.111	4.7	20.6
3 22	11 5.64	+17 59.2	2.176	3.114	7.4	20.8
4 1	10 58.63	+18 0.2	2.238	3.117	10.3	21.0
4 11	10 53.38	+17 45.5	2.324	3.120	13.0	21.2

167078 2003 RC_{20} 3 8.6 191°.22 0°.2/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 42.15	+ 0 41.5	1.932	2.725	14.6	20.9
2 11	11 37.70	+ 1 16.4	1.843	2.724	11.4	20.7
2 21	11 31.01	+ 2 7.0	1.776	2.722	7.5	20.5
3 2	11 22.66	+ 3 9.5	1.736	2.720	3.1	20.2
3 12	11 13.56	+ 4 17.5	1.725	2.717	1.5	20.1
3 22	11 4.72	+ 5 24.0	1.743	2.714	5.9	20.3
4 1	10 57.11	+ 6 22.2	1.789	2.710	10.1	20.6
4 11	10 51.51	+ 7 7.2	1.859	2.706	13.7	20.8

109969 2001 SV_{51} 3 8.6 172°.76 1°.0/ 7.4 18

2 1	11 38.26	+ 5 26.5	2.752	3.549	10.6	21.0
2 11	11 34.03	+ 6 7.2	2.665	3.552	8.1	20.8
2 21	11 28.28	+ 6 56.1	2.603	3.554	5.1	20.7
3 2	11 21.46	+ 7 49.5	2.570	3.556	2.0	20.4
3 12	11 14.19	+ 8 42.8	2.568	3.557	1.8	20.4
3 22	11 7.13	+ 9 31.5	2.596	3.558	4.9	20.6
4 1	11 0.90	+10 11.7	2.652	3.558	7.9	20.8
4 11	10 56.03	+10 40.9	2.734	3.559	10.5	21.0

270601 Frauenstein 3 8.6 239°.49 1°.3/ 7.1 17

2 1	11 39.41	+ 6 0.4	2.447	3.249	11.6	21.7
2 11	11 35.21	+ 6 42.0	2.347	3.236	8.9	21.5
2 21	11 29.22	+ 7 33.2	2.271	3.223	5.7	21.3
3 2	11 21.91	+ 8 29.9	2.224	3.209	2.3	21.0
3 12	11 13.95	+ 9 26.7	2.207	3.195	2.2	21.0
3 22	11 6.13	+10 18.2	2.220	3.181	5.7	21.2
4 1	10 59.22	+10 59.8	2.260	3.166	9.1	21.4
4 11	10 53.86	+11 28.6	2.326	3.150	12.1	21.6

98590 2000 WW_{54} 3 8.6 55°.47 0°.4/ 8.3 18 R

2 1	11 44.36	+ 3 32.7	1.337	2.159	18.4	18.4
2 11	11 39.91	+ 3 50.3	1.282	2.180	14.1	18.2
2 21	11 32.58	+ 4 23.4	1.247	2.200	9.0	18.0
3 2	11 23.27	+ 5 6.6	1.236	2.222	3.6	17.7
3 12	11 13.31	+ 5 51.7	1.251	2.243	2.1	17.7
3 22	11 4.09	+ 6 31.2	1.293	2.265	7.4	18.1
4 1	10 56.81	+ 6 58.8	1.359	2.287	12.1	18.4
4 11	10 52.22	+ 7 11.1	1.447	2.309	16.1	18.7

269765 1999 TL_{46} 3 8.6 116°.83 1°.8/ 6.9 18

2 1	11 41.55	+ 7 42.7	2.056	2.868	13.2	21.0
2 11	11 36.99	+ 8 16.8	1.980	2.875	10.0	20.8
2 21	11 30.39	+ 8 59.3	1.928	2.881	6.4	20.6
3 2	11 22.36	+ 9 45.3	1.903	2.888	2.7	20.4
3 12	11 13.75	+10 28.8	1.907	2.894	2.8	20.4
3 22	11 5.49	+11 4.3	1.940	2.900	6.4	20.6
4 1	10 58.45	+11 27.9	2.000	2.906	10.0	20.9
4 11	10 53.28	+11 37.4	2.083	2.912	13.1	21.1

163604 2002 TM_{242} 3 8.6 144°.10 4°.8/ 2.7 18

2 1	11 40.66	+18 40.8	2.485	3.307	10.9	20.2
2 11	11 36.02	+19 46.1	2.418	3.314	8.4	20.0
2 21	11 29.63	+20 51.6	2.377	3.321	6.0	19.9
3 2	11 22.02	+21 51.0	2.364	3.327	4.8	19.8
3 12	11 13.94	+22 38.3	2.381	3.333	5.8	19.9
3 22	11 6.18	+23 9.4	2.425	3.339	8.0	20.0
4 1	10 59.47	+23 22.3	2.496	3.344	10.5	20.2
4 11	10 54.40	+23 17.1	2.589	3.350	12.7	20.3

10497 1986 RQ 3 8.6 214°.62 3°.5/12.0 18

2 1	11 41.44	− 8 24.4	1.954	2.709	15.8	18.3
2 11	11 37.26	− 8 8.2	1.853	2.702	12.9	18.1
2 21	11 30.81	− 7 29.8	1.773	2.694	9.4	17.8
3 2	11 22.62	− 6 30.1	1.718	2.685	5.7	17.6
3 12	11 13.58	− 5 13.3	1.691	2.676	3.5	17.4
3 22	11 4.69	− 3 46.4	1.693	2.666	5.8	17.5
4 1	10 56.98	− 2 17.7	1.723	2.655	9.6	17.7
4 11	10 51.26	− 0 55.5	1.777	2.644	13.3	17.9

157913 1999 TY_{267} 3 8.6 230°.99 5°.1/14.3 18

2 1	11 39.43	−13 52.3	2.406	3.119	14.3	20.4
2 11	11 35.35	−14 0.7	2.296	3.109	12.0	20.2
2 21	11 29.39	−13 49.3	2.208	3.098	9.5	20.0
3 2	11 22.00	−13 17.3	2.144	3.086	6.9	19.8
3 12	11 13.90	−12 26.4	2.108	3.075	5.2	19.7
3 22	11 5.90	−11 20.8	2.100	3.062	5.9	19.7
4 1	10 58.82	−10 6.4	2.121	3.050	8.3	19.8
4 11	10 53.34	− 8 50.3	2.167	3.036	11.2	20.0

213334 2001 SW_{159} 3 8.6 100°.26 0°.0/ 8.5 17

2 1	11 40.52	+ 3 16.4	2.414	3.206	12.1	21.0
2 11	11 35.87	+ 3 33.3	2.337	3.219	9.3	20.8
2 21	11 29.50	+ 3 59.6	2.285	3.232	6.0	20.6
3 2	11 21.96	+ 4 32.3	2.261	3.245	2.4	20.4
3 12	11 13.97	+ 5 6.9	2.266	3.258	1.3	20.3
3 22	11 6.30	+ 5 39.3	2.301	3.270	4.8	20.6
4 1	10 59.65	+ 6 5.5	2.365	3.283	8.1	20.8
4 11	10 54.58	+ 6 22.9	2.454	3.295	11.0	21.0

165774 2001 QE_{255} 3 8.6 192°.62 2°.3/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 37.38	− 6 21.2	2.545	3.301	12.5	20.6
2 11	11 33.55	− 6 1.0	2.448	3.299	10.1	20.4
2 21	11 28.07	− 5 24.8	2.373	3.298	7.2	20.2
3 2	11 21.42	− 4 34.5	2.326	3.296	4.1	20.0
3 12	11 14.23	− 3 33.6	2.307	3.295	2.4	19.9
3 22	11 7.22	− 2 27.2	2.319	3.292	4.4	20.0
4 1	11 1.08	− 1 20.8	2.359	3.290	7.5	20.2
4 11	10 56.37	− 0 19.7	2.426	3.287	10.4	20.4

46637 1994 WJ_{12} 3 8.6 117°.24 4°.6/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.39	−11 1.6	2.106	2.837	15.5	18.1
2 11	11 38.35	−11 11.5	2.027	2.856	12.8	18.0
2 21	11 31.26	−11 1.1	1.970	2.874	9.6	17.8
3 2	11 22.71	−10 30.7	1.938	2.892	6.5	17.6
3 12	11 13.59	− 9 43.3	1.934	2.909	4.6	17.6
3 22	11 4.84	− 8 44.3	1.958	2.925	5.8	17.7
4 1	10 57.34	− 7 40.1	2.011	2.941	8.6	17.9
4 11	10 51.72	− 6 37.8	2.090	2.956	11.6	18.1

34704 2001 OS_{80} 3 8.6 40°.25 8°.7/15.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.90	−15 53.8	1.598	2.327	19.8	16.6
2 11	11 38.79	−17 6.0	1.523	2.337	17.0	16.5
2 21	11 31.98	−17 52.5	1.466	2.348	13.8	16.3
3 2	11 23.12	−18 9.4	1.430	2.359	10.8	16.1
3 12	11 13.35	−17 56.6	1.418	2.370	8.9	16.0
3 22	11 3.95	−17 18.0	1.431	2.382	9.2	16.1
4 1	10 56.13	−16 21.4	1.469	2.395	11.5	16.2
4 11	10 50.80	−15 16.9	1.529	2.408	14.4	16.4

451096 2009 CR_{27} 3 8.6 94°.59 2°.3/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.31	+ 7 20.5	1.619	2.437	15.9	21.5
2 11	11 40.19	+ 8 13.0	1.562	2.460	12.0	21.3
2 21	11 32.57	+ 9 16.4	1.528	2.482	7.6	21.1
3 2	11 23.24	+10 23.3	1.519	2.504	3.3	20.9
3 12	11 13.36	+11 25.2	1.539	2.526	3.5	21.0
3 22	11 4.12	+12 14.8	1.587	2.546	7.7	21.3
4 1	10 56.55	+12 47.5	1.661	2.567	11.7	21.6
4 11	10 51.36	+13 1.4	1.757	2.587	15.1	21.8

400212 2007 BL_{69} 3 8.6 25°.30 1°.3/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.76	+ 3 43.0	1.109	1.951	20.0	20.7
2 11	11 37.11	+ 4 23.0	1.046	1.956	15.3	20.4
2 21	11 31.21	+ 5 23.6	1.003	1.962	9.8	20.1
3 2	11 22.87	+ 6 37.3	0.982	1.969	3.8	19.8
3 12	11 13.53	+ 7 52.7	0.985	1.976	3.0	19.8
3 22	11 4.82	+ 8 58.3	1.012	1.984	8.9	20.1
4 1	10 58.18	+ 9 45.0	1.062	1.993	14.3	20.4
4 11	10 54.55	+10 8.4	1.130	2.002	18.9	20.7

303401 2004 XA_{110} 3 8.6 62°.68 0°.0/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.90	+ 2 11.4	1.338	2.155	18.6	21.0
2 11	11 40.29	+ 2 31.8	1.284	2.179	14.3	20.7
2 21	11 32.82	+ 3 9.5	1.250	2.202	9.3	20.5
3 2	11 23.38	+ 3 58.9	1.241	2.226	3.7	20.3
3 12	11 13.32	+ 4 51.7	1.258	2.250	1.9	20.2
3 22	11 4.02	+ 5 39.7	1.301	2.274	7.2	20.6
4 1	10 56.67	+ 6 16.2	1.369	2.297	12.0	20.9
4 11	10 52.02	+ 6 37.1	1.459	2.321	15.9	21.2

326896 2003 WN_{45} 3 8.6 34°.78 1°.5/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.40	− 0 16.7	1.336	2.152	18.7	20.3
2 11	11 37.82	− 0 16.5	1.271	2.162	14.7	20.0
2 21	11 31.39	+ 0 2.9	1.224	2.173	9.8	19.8
3 2	11 22.87	+ 0 38.4	1.202	2.184	4.6	19.5
3 12	11 13.54	+ 1 23.3	1.204	2.196	2.0	19.3
3 22	11 4.77	+ 2 9.4	1.233	2.209	6.9	19.7
4 1	10 57.80	+ 2 49.2	1.285	2.222	11.8	20.0
4 11	10 53.49	+ 3 16.8	1.359	2.236	16.0	20.3

499081 2009 FG_{6} 3 8.6 65°.92 1°.2/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.42	+ 7 38.5	2.193	2.999	12.7	21.4
2 11	11 37.51	+ 7 49.8	2.116	3.007	9.6	21.3
2 21	11 30.66	+ 8 8.0	2.063	3.015	6.1	21.0
3 2	11 22.47	+ 8 29.1	2.038	3.023	2.5	20.8
3 12	11 13.76	+ 8 48.7	2.042	3.031	2.2	20.8
3 22	11 5.40	+ 9 2.7	2.076	3.040	5.8	21.1
4 1	10 58.21	+ 9 8.0	2.137	3.048	9.2	21.3
4 11	10 52.81	+ 9 2.8	2.222	3.056	12.2	21.5

369457 2010 QF_{3} 3 8.6 244°.52 0°.3/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.35	− 0 6.6	1.794	2.592	15.4	21.2
2 11	11 36.61	+ 0 34.5	1.697	2.581	12.0	20.9
2 21	11 30.49	+ 1 34.4	1.622	2.569	8.0	20.7
3 2	11 22.54	+ 2 49.2	1.573	2.557	3.4	20.4
3 12	11 13.68	+ 4 11.9	1.553	2.545	1.5	20.2
3 22	11 4.98	+ 5 34.0	1.560	2.532	6.4	20.5
4 1	10 57.53	+ 6 47.2	1.595	2.519	10.9	20.7
4 11	10 52.18	+ 7 45.4	1.653	2.505	14.9	20.9

495239 2013 JS_{31} 3 8.6 254°.16 0°.3/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.74	+ 1 0.4	1.837	2.635	15.1	22.5
2 11	11 37.67	+ 1 26.7	1.735	2.619	11.8	22.2
2 21	11 31.19	+ 2 9.2	1.656	2.604	7.8	21.9
3 2	11 22.84	+ 3 4.7	1.603	2.587	3.3	21.6
3 12	11 13.52	+ 4 7.0	1.579	2.571	1.5	21.4
3 22	11 4.33	+ 5 9.0	1.582	2.554	6.3	21.7
4 1	10 56.35	+ 6 3.5	1.613	2.536	10.8	21.9
4 11	10 50.48	+ 6 44.9	1.666	2.518	14.8	22.1

518583 2007 TO_{455} 3 8.6 115°.84 2°.3/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.96	− 6 5.8	2.282	3.047	13.5	21.7
2 11	11 33.40	− 5 40.4	2.192	3.050	10.8	21.5
2 21	11 28.06	− 4 57.5	2.125	3.053	7.7	21.3
3 2	11 21.46	− 3 59.1	2.084	3.057	4.3	21.1
3 12	11 14.30	− 2 49.7	2.072	3.060	2.3	21.0
3 22	11 7.37	− 1 35.1	2.089	3.063	4.7	21.1
4 1	11 1.42	− 0 21.9	2.134	3.066	8.1	21.3
4 11	10 57.06	+ 0 44.1	2.205	3.069	11.2	21.5

436691 2011 SO_{198} 3 8.6 212°.16 1°.1/ 7.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.49	+ 6 25.3	2.633	3.435	10.9	22.1
2 11	11 34.33	+ 6 59.0	2.542	3.431	8.3	21.9
2 21	11 28.56	+ 7 40.6	2.475	3.427	5.3	21.7
3 2	11 21.64	+ 8 26.3	2.438	3.423	2.1	21.5
3 12	11 14.21	+ 9 11.5	2.430	3.418	2.0	21.4
3 22	11 6.97	+ 9 51.7	2.452	3.414	5.2	21.6
4 1	11 0.59	+10 23.2	2.502	3.409	8.3	21.8
4 11	10 55.64	+10 43.6	2.578	3.404	11.0	22.0

467295 2016 EC_{198} 3 8.6 334°.87 1°.8/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.43	− 1 1.9	1.580	2.382	17.0	21.2
2 11	11 37.66	− 1 6.7	1.495	2.378	13.4	20.9
2 21	11 31.26	− 0 54.1	1.430	2.374	9.2	20.7
3 2	11 22.88	− 0 26.2	1.390	2.370	4.5	20.4
3 12	11 13.56	+ 0 11.9	1.376	2.367	2.1	20.2
3 22	11 4.53	+ 0 53.9	1.389	2.364	6.4	20.5
4 1	10 56.99	+ 1 32.6	1.427	2.362	11.1	20.7
4 11	10 51.82	+ 2 2.1	1.488	2.359	15.2	21.0

341781 2007 WX_{30} 3 8.6 77°.33 2°.5/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.46	− 4 57.2	2.267	3.032	13.6	20.7
2 11	11 35.21	− 4 55.0	2.189	3.047	10.8	20.5
2 21	11 29.17	− 4 37.4	2.134	3.062	7.6	20.3
3 2	11 21.89	− 4 6.3	2.104	3.077	4.3	20.1
3 12	11 14.11	− 3 25.3	2.104	3.091	2.5	20.0
3 22	11 6.65	− 2 39.0	2.132	3.106	4.7	20.2
4 1	11 0.24	− 1 52.9	2.189	3.121	7.9	20.4
4 11	10 55.48	− 1 11.7	2.271	3.135	10.9	20.6

386157 2007 TC_{366} 3 8.6 121°.18 0°.5/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.75	+ 2 35.2	2.527	3.305	12.0	21.3
2 11	11 39.01	+ 2 28.1	2.444	3.317	9.3	21.2
2 21	11 31.52	+ 2 29.5	2.387	3.329	6.1	21.0
3 2	11 22.82	+ 2 37.2	2.358	3.341	2.6	20.8
3 12	11 13.65	+ 2 48.1	2.360	3.352	1.2	20.7
3 22	11 4.79	+ 2 59.0	2.393	3.363	4.6	20.9
4 1	10 56.97	+ 3 6.9	2.455	3.374	7.8	21.1
4 11	10 50.78	+ 3 9.1	2.543	3.384	10.7	21.3

3685 Derdenye 3 8.6 129°.86 3°.8/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.28	−11 21.7	2.239	2.973	14.6	18.3
2 11	11 35.16	−10 57.2	2.153	2.985	12.0	18.2
2 21	11 29.20	−10 11.3	2.089	2.997	9.0	18.0
3 2	11 21.91	− 9 5.4	2.050	3.009	5.8	17.8
3 12	11 14.09	− 7 43.7	2.040	3.020	3.8	17.7
3 22	11 6.57	− 6 12.7	2.059	3.030	5.1	17.8
4 1	11 0.12	− 4 39.7	2.107	3.040	8.1	18.0
4 11	10 55.36	− 3 12.2	2.182	3.050	11.1	18.2

83636 2001 SO_{326} 3 8.6 33°.47 3°.6/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.18	− 7 28.0	2.173	2.930	14.4	19.4
2 11	11 35.21	− 7 40.9	2.083	2.932	11.7	19.2
2 21	11 29.30	− 7 36.7	2.015	2.935	8.6	19.0
3 2	11 21.99	− 7 16.2	1.973	2.937	5.4	18.9
3 12	11 14.05	− 6 42.0	1.958	2.940	3.6	18.7
3 22	11 6.34	− 5 58.5	1.971	2.943	5.3	18.9
4 1	10 59.69	− 5 11.5	2.012	2.946	8.4	19.0
4 11	10 54.76	− 4 26.6	2.079	2.949	11.5	19.2

293498 2007 GJ_{2} 3 8.6 306°.08 7°.8/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.55	+21 32.7	1.715	2.556	14.1	20.3
2 11	11 36.98	+23 3.3	1.640	2.543	11.2	20.1
2 21	11 30.82	+24 34.5	1.589	2.530	8.7	19.9
3 2	11 22.70	+25 55.5	1.563	2.517	7.8	19.8
3 12	11 13.68	+26 56.3	1.563	2.504	9.3	19.9
3 22	11 4.98	+27 29.9	1.588	2.491	12.1	20.0
4 1	10 57.76	+27 33.7	1.635	2.479	15.3	20.2
4 11	10 52.89	+27 9.2	1.701	2.467	18.1	20.4

127090 2002 GB_{77} 3 8.6 50°.35 4°.4/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.79	+13 51.7	1.809	2.641	13.9	19.6
2 11	11 36.75	+14 53.3	1.741	2.646	10.5	19.4
2 21	11 30.41	+15 59.9	1.697	2.651	7.0	19.2
3 2	11 22.45	+17 3.9	1.679	2.656	4.6	19.0
3 12	11 13.85	+17 57.1	1.689	2.661	5.6	19.1
3 22	11 5.66	+18 33.4	1.726	2.666	8.8	19.3
4 1	10 58.88	+18 49.3	1.788	2.672	12.2	19.5
4 11	10 54.19	+18 44.6	1.871	2.677	15.3	19.7

301131 2008 WQ_{116} 3 8.6 204°.80 0°.2/ 8.9 17

2 1	11 43.61	+ 1 0.8	1.786	2.582	15.5	22.5
2 11	11 39.06	+ 1 30.4	1.695	2.578	12.1	22.2
2 21	11 32.06	+ 2 16.5	1.627	2.574	8.0	22.0
3 2	11 23.20	+ 3 15.2	1.584	2.568	3.3	21.7
3 12	11 13.45	+ 4 19.9	1.570	2.563	1.6	21.5
3 22	11 3.95	+ 5 23.1	1.585	2.556	6.4	21.8
4 1	10 55.80	+ 6 17.7	1.627	2.549	10.8	22.1
4 11	10 49.85	+ 6 58.4	1.691	2.541	14.7	22.3

258451 2001 YX_{8} 3 8.6 10°.57 5°.6/12.6 18

2 1	11 43.81	− 8 3.5	1.641	2.406	18.0	19.5
2 11	11 39.44	− 9 1.3	1.557	2.407	14.8	19.3
2 21	11 32.42	− 9 40.1	1.492	2.409	11.2	19.1
3 2	11 23.37	− 9 58.1	1.452	2.411	7.6	18.9
3 12	11 13.37	− 9 56.2	1.437	2.413	5.7	18.8
3 22	11 3.66	− 9 38.1	1.449	2.416	7.3	18.9
4 1	10 55.44	− 9 10.0	1.486	2.420	10.8	19.1
4 11	10 49.61	− 8 39.4	1.546	2.424	14.4	19.3

508180 2015 FA_{294} 3 8.6 290°.19 8°.3/27.3 17

2 1	11 42.48	+29 44.2	2.276	3.096	11.8	21.2
2 11	11 37.91	+31 2.0	2.204	3.081	10.0	21.0
2 21	11 31.14	+32 13.0	2.157	3.067	8.6	20.9
3 2	11 22.77	+33 8.9	2.136	3.053	8.4	20.9
3 12	11 13.71	+33 42.7	2.141	3.039	9.6	20.9
3 22	11 4.96	+33 50.7	2.171	3.024	11.5	21.0
4 1	10 57.48	+33 32.1	2.223	3.010	13.7	21.1
4 11	10 51.98	+32 49.3	2.295	2.996	15.7	21.2

417944 2007 SS_{18} 3 8.6 233°.91 0°.6/ 8.2 17

2 1	11 45.29	+ 4 5.6	1.971	2.768	14.3	22.3
2 11	11 40.24	+ 4 28.5	1.869	2.753	11.0	22.0
2 21	11 32.81	+ 5 3.6	1.789	2.738	7.2	21.8
3 2	11 23.52	+ 5 47.2	1.738	2.723	2.9	21.5
3 12	11 13.30	+ 6 33.4	1.715	2.706	1.9	21.4
3 22	11 3.21	+ 7 16.1	1.721	2.689	6.4	21.6
4 1	10 54.32	+ 7 49.9	1.756	2.670	10.6	21.8
4 11	10 47.48	+ 8 10.7	1.813	2.652	14.4	22.0

303284 2004 RJ_{294} 3 8.6 299°.71 1°.9/10.1 18

2 1	11 39.22	− 2 44.2	1.399	2.207	18.5	21.2
2 11	11 36.39	− 2 26.2	1.310	2.196	14.7	20.9
2 21	11 30.71	− 1 44.1	1.240	2.185	10.1	20.6
3 2	11 22.76	− 0 40.6	1.193	2.175	5.0	20.3
3 12	11 13.68	+ 0 37.5	1.172	2.164	2.2	20.1
3 22	11 4.80	+ 2 0.4	1.177	2.154	7.1	20.3
4 1	10 57.49	+ 3 17.5	1.206	2.144	12.3	20.6
4 11	10 52.78	+ 4 20.0	1.257	2.134	17.0	20.8

464099 2014 WA_{394} 3 8.6 35°.27 2°.9/ 6.2 18

2 1	11 40.26	+ 8 46.4	1.544	2.376	15.8	20.9
2 11	11 36.65	+ 9 36.2	1.478	2.384	12.0	20.7
2 21	11 30.50	+10 36.7	1.434	2.391	7.6	20.4
3 2	11 22.54	+11 40.4	1.415	2.400	3.6	20.2
3 12	11 13.87	+12 38.4	1.424	2.408	4.1	20.2
3 22	11 5.69	+13 23.2	1.459	2.418	8.3	20.5
4 1	10 59.09	+13 49.8	1.518	2.427	12.4	20.8
4 11	10 54.82	+13 56.4	1.599	2.437	16.0	21.0

3431 Nakano 3 8.6 172°.63 3°.5/12.3 18

2 1	11 40.75	− 7 33.9	2.494	3.238	13.1	15.9
2 11	11 36.18	− 7 53.6	2.398	3.239	10.6	15.7
2 21	11 29.85	− 7 58.7	2.325	3.240	7.9	15.5
3 2	11 22.22	− 7 49.6	2.279	3.240	5.1	15.4
3 12	11 14.01	− 7 28.2	2.261	3.241	3.5	15.3
3 22	11 5.97	− 6 58.0	2.272	3.241	4.9	15.4
4 1	10 58.88	− 6 23.3	2.312	3.241	7.7	15.5
4 11	10 53.33	− 5 49.1	2.378	3.241	10.5	15.7

208028 1999 JY_{119} 3 8.6 287°.37 3°.6/ 5.6 17

2 1	11 40.99	+ 9 7.1	1.530	2.362	15.9	20.9
2 11	11 37.70	+10 10.4	1.432	2.338	12.3	20.6
2 21	11 31.58	+11 28.4	1.356	2.313	8.0	20.2
3 2	11 23.15	+12 53.5	1.305	2.288	4.1	19.9
3 12	11 13.47	+14 15.1	1.281	2.263	5.1	19.9
3 22	11 3.84	+15 22.9	1.283	2.238	9.7	20.1
4 1	10 55.65	+16 8.9	1.309	2.212	14.4	20.3
4 11	10 49.98	+16 29.6	1.355	2.187	18.7	20.5

232232 2002 LM_{53} 3 8.6 284°.21 1°.5/ 7.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.69	+ 4 54.7	2.102	2.910	13.1	20.6
2 11	11 35.15	+ 5 50.7	1.988	2.881	10.1	20.3
2 21	11 29.51	+ 7 1.0	1.898	2.852	6.5	20.1
3 2	11 22.20	+ 8 20.9	1.836	2.822	2.6	19.8
3 12	11 13.97	+ 9 43.4	1.803	2.791	2.6	19.7
3 22	11 5.75	+11 0.8	1.799	2.760	6.7	19.9
4 1	10 58.49	+12 6.3	1.822	2.729	10.8	20.1
4 11	10 53.00	+12 55.0	1.868	2.698	14.4	20.2

369370 2009 UP_{94} 3 8.6 137°.03 3°.3/ 5.6 16

2 1	11 42.66	+11 43.3	1.934	2.755	13.5	21.6
2 11	11 38.04	+12 27.8	1.859	2.759	10.3	21.4
2 21	11 31.21	+13 18.3	1.808	2.762	6.7	21.2
3 2	11 22.79	+14 8.5	1.784	2.765	3.7	21.0
3 12	11 13.74	+14 51.4	1.788	2.768	4.3	21.1
3 22	11 5.06	+15 21.6	1.821	2.771	7.7	21.3
4 1	10 57.70	+15 35.4	1.880	2.773	11.2	21.5
4 11	10 52.38	+15 32.0	1.961	2.776	14.4	21.7

136535 2006 KA_{85} 3 8.7 167°.48 3°.1/ 5.3 18

2 1	11 41.50	+ 9 5.2	1.993	2.810	13.4	20.1
2 11	11 37.13	+10 23.0	1.916	2.814	10.1	19.9
2 21	11 30.62	+11 50.8	1.864	2.818	6.5	19.7
3 2	11 22.57	+13 21.3	1.839	2.821	3.4	19.5
3 12	11 13.86	+14 46.1	1.844	2.824	4.2	19.6
3 22	11 5.46	+15 57.7	1.878	2.826	7.7	19.8
4 1	10 58.30	+16 50.8	1.939	2.827	11.2	20.0
4 11	10 53.07	+17 23.3	2.022	2.828	14.3	20.2

137581 1999 VV_{137} 3 8.7 93°.87 0°.7/ 9.2 18

2 1	11 45.44	+ 0 14.9	1.407	2.214	18.4	19.9
2 11	11 40.75	+ 0 37.0	1.343	2.231	14.3	19.7
2 21	11 33.22	+ 1 18.5	1.300	2.248	9.4	19.5
3 2	11 23.66	+ 2 14.4	1.281	2.265	4.1	19.2
3 12	11 13.35	+ 3 16.9	1.289	2.281	1.7	19.1
3 22	11 3.66	+ 4 17.1	1.323	2.297	7.0	19.4
4 1	10 55.83	+ 5 7.2	1.383	2.313	11.8	19.7
4 11	10 50.66	+ 5 42.1	1.465	2.328	15.9	20.0

350589 2001 QP_{61} 3 8.7 169°.69 1°.8/10.9 18

2 1	11 39.97	− 3 56.5	3.007	3.760	10.9	21.4
2 11	11 35.24	− 3 51.4	2.912	3.764	8.6	21.3
2 21	11 29.06	− 3 34.9	2.841	3.767	6.0	21.1
3 2	11 21.87	− 3 8.5	2.798	3.771	3.3	20.9
3 12	11 14.23	− 2 34.8	2.785	3.773	1.8	20.8
3 22	11 6.77	− 1 57.4	2.803	3.775	3.9	21.0
4 1	11 0.08	− 1 19.9	2.851	3.777	6.6	21.2
4 11	10 54.65	− 0 45.9	2.926	3.778	9.1	21.3

227958 2007 HH 3 8.7 88°.85 1°.0/ 7.6 18

2 1	11 39.62	+ 3 52.5	1.902	2.712	14.2	20.8
2 11	11 35.69	+ 4 41.5	1.830	2.722	10.8	20.6
2 21	11 29.67	+ 5 43.7	1.780	2.733	6.9	20.3
3 2	11 22.17	+ 6 53.5	1.758	2.744	2.7	20.1
3 12	11 14.09	+ 8 3.8	1.764	2.754	2.2	20.1
3 22	11 6.37	+ 9 7.6	1.799	2.765	6.3	20.4
4 1	10 59.92	+ 9 58.9	1.860	2.775	10.1	20.6
4 11	10 55.39	+10 34.4	1.945	2.785	13.5	20.8

508449 2016 LX_{53} 3 8.7 233°.53 0°.2/ 8.9 17

2 1	11 37.59	− 0 1.8	2.523	3.307	11.9	22.5
2 11	11 33.81	+ 0 45.3	2.420	3.296	9.2	22.3
2 21	11 28.35	+ 1 46.3	2.341	3.285	6.1	22.1
3 2	11 21.64	+ 2 57.9	2.290	3.273	2.6	21.9
3 12	11 14.33	+ 4 14.7	2.269	3.261	1.2	21.7
3 22	11 7.15	+ 5 31.1	2.278	3.248	4.8	22.0
4 1	11 0.81	+ 6 41.1	2.317	3.235	8.2	22.1
4 11	10 55.92	+ 7 40.3	2.381	3.222	11.3	22.3

56928 2000 RF_{27} 3 8.7 61°.00 3°.6/12.2 18

2 1	11 41.29	− 6 54.6	2.297	3.048	13.8	19.0
2 11	11 36.68	− 7 20.7	2.211	3.056	11.2	18.8
2 21	11 30.21	− 7 31.9	2.147	3.064	8.3	18.7
3 2	11 22.38	− 7 28.4	2.109	3.072	5.3	18.5
3 12	11 13.98	− 7 12.2	2.099	3.080	3.6	18.4
3 22	11 5.83	− 6 47.1	2.119	3.088	5.2	18.5
4 1	10 58.73	− 6 17.5	2.166	3.096	8.1	18.7
4 11	10 53.31	− 5 48.4	2.239	3.105	11.0	18.9

294354 2007 VG_{96} 3 8.7 164°.11 3°.1/ 5.0 17

2 1	11 39.68	+12 25.2	2.455	3.271	11.2	21.1
2 11	11 35.34	+13 16.6	2.377	3.274	8.4	20.9
2 21	11 29.27	+14 12.7	2.324	3.276	5.5	20.8
3 2	11 21.99	+15 8.0	2.299	3.278	3.2	20.6
3 12	11 14.20	+15 56.8	2.305	3.280	3.9	20.7
3 22	11 6.67	+16 34.6	2.339	3.282	6.7	20.8
4 1	11 0.14	+16 58.2	2.401	3.283	9.6	21.0
4 11	10 55.17	+17 6.3	2.486	3.284	12.2	21.2

76607 2000 GN_{162} 3 8.7 59°.11 3°.7/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.50	+ 9 24.6	1.463	2.298	16.4	18.9
2 11	11 37.58	+10 37.4	1.411	2.319	12.3	18.7
2 21	11 31.05	+12 0.4	1.382	2.340	7.9	18.5
3 2	11 22.74	+13 24.1	1.378	2.361	4.1	18.3
3 12	11 13.85	+14 38.3	1.401	2.382	4.9	18.4
3 22	11 5.61	+15 34.9	1.450	2.404	8.9	18.7
4 1	10 59.10	+16 9.3	1.524	2.425	12.9	19.0
4 11	10 55.01	+16 20.5	1.618	2.447	16.3	19.3

32659 4804 *P–L* 3 8.7 258°.73 0°.9/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.92	− 1 48.4	2.308	3.091	12.9	19.6
2 11	11 33.45	− 1 12.4	2.209	3.083	10.1	19.4
2 21	11 28.18	− 0 20.8	2.133	3.074	6.8	19.2
3 2	11 21.59	+ 0 43.3	2.085	3.066	3.2	18.9
3 12	11 14.38	+ 1 54.9	2.065	3.057	1.3	18.8
3 22	11 7.33	+ 3 7.9	2.075	3.048	4.9	19.0
4 1	11 1.20	+ 4 16.2	2.113	3.040	8.5	19.2
4 11	10 56.64	+ 5 14.5	2.177	3.031	11.7	19.4

172414 2003 EW_{14} 3 8.7 335°.32 2°.5/ 6.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.46	+ 9 8.9	2.074	2.896	12.7	19.9
2 11	11 34.02	+ 9 56.1	1.990	2.890	9.6	19.7
2 21	11 28.62	+10 51.8	1.929	2.885	6.2	19.5
3 2	11 21.78	+11 50.3	1.896	2.880	3.0	19.3
3 12	11 14.30	+12 45.1	1.892	2.875	3.5	19.3
3 22	11 7.07	+13 30.3	1.915	2.871	6.9	19.5
4 1	11 0.94	+14 1.4	1.965	2.866	10.4	19.7
4 11	10 56.56	+14 16.0	2.037	2.863	13.5	19.9

175617 2006 WA_{36} 3 8.7 337°.84 0°.4/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.07	+ 0 19.5	2.210	3.006	12.9	20.8
2 11	11 32.83	+ 0 52.3	2.119	3.002	10.0	20.6
2 21	11 27.79	+ 1 39.1	2.051	2.998	6.6	20.3
3 2	11 21.43	+ 2 36.5	2.011	2.994	2.8	20.1
3 12	11 14.48	+ 3 39.3	1.999	2.991	1.2	20.0
3 22	11 7.73	+ 4 41.5	2.015	2.988	5.1	20.2
4 1	11 1.97	+ 5 37.4	2.060	2.985	8.7	20.4
4 11	10 57.80	+ 6 22.4	2.129	2.982	12.0	20.6

164720 1998 KT_{24} 3 8.7 333°.58 10°.6/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.48	+24 22.1	1.160	2.016	18.3	18.3
2 11	11 41.27	+25 25.5	1.088	1.997	15.0	18.0
2 21	11 34.29	+26 24.2	1.036	1.979	11.9	17.8
3 2	11 24.33	+27 4.1	1.006	1.963	10.6	17.6
3 12	11 12.99	+27 12.0	0.998	1.947	12.1	17.7
3 22	11 2.20	+26 41.3	1.011	1.933	15.5	17.8
4 1	10 53.73	+25 32.2	1.044	1.920	19.5	18.0
4 11	10 48.74	+23 50.8	1.093	1.909	23.2	18.2

186894 2004 KS_{2} 3 8.7 235°.30 2°.8/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.79	+10 20.7	2.128	2.941	12.8	22.1
2 11	11 38.12	+11 5.8	2.034	2.930	9.7	21.9
2 21	11 31.32	+11 58.4	1.964	2.917	6.3	21.7
3 2	11 22.91	+12 53.0	1.922	2.905	3.2	21.5
3 12	11 13.73	+13 42.9	1.910	2.891	3.8	21.5
3 22	11 4.75	+14 22.4	1.926	2.878	7.2	21.6
4 1	10 56.89	+14 47.1	1.970	2.863	10.8	21.8
4 11	10 50.91	+14 55.2	2.036	2.849	14.0	22.0

211542 2003 SU_{15} 3 8.7 155°.14 0°.1/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.48	+ 1 48.1	1.806	2.606	15.2	21.2
2 11	11 38.07	+ 2 24.5	1.725	2.611	11.7	21.0
2 21	11 31.34	+ 3 16.3	1.667	2.616	7.6	20.7
3 2	11 22.91	+ 4 19.0	1.636	2.620	3.1	20.5
3 12	11 13.75	+ 5 25.7	1.632	2.624	1.7	20.4
3 22	11 4.95	+ 6 28.9	1.658	2.628	6.3	20.7
4 1	10 57.50	+ 7 22.0	1.710	2.631	10.5	20.9
4 11	10 52.16	+ 8 0.5	1.786	2.633	14.2	21.2

31786 1999 KO_{13} 3 8.7 213°.51 5°.8/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.70	−13 42.4	2.121	2.843	15.7	18.4
2 11	11 36.58	−14 6.5	2.023	2.840	13.3	18.2
2 21	11 30.35	−14 9.7	1.945	2.836	10.5	18.0
3 2	11 22.53	−13 50.6	1.891	2.832	7.7	17.8
3 12	11 13.92	−13 10.7	1.863	2.828	5.9	17.7
3 22	11 5.48	−12 14.1	1.863	2.824	6.6	17.7
4 1	10 58.14	−11 7.5	1.891	2.820	9.1	17.8
4 11	10 52.64	− 9 58.4	1.943	2.815	12.1	18.0

133440 2003 SK_{213} 3 8.7 214°.43 0°.3/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.44	+ 0 42.0	1.998	2.789	14.3	20.9
2 11	11 37.96	+ 1 14.5	1.902	2.782	11.1	20.7
2 21	11 31.27	+ 2 2.4	1.828	2.774	7.4	20.5
3 2	11 22.91	+ 3 2.2	1.782	2.765	3.1	20.2
3 12	11 13.74	+ 4 8.0	1.764	2.756	1.4	20.0
3 22	11 4.75	+ 5 12.8	1.776	2.747	5.8	20.3
4 1	10 56.93	+ 6 10.2	1.815	2.736	10.0	20.5
4 11	10 51.05	+ 6 55.0	1.879	2.725	13.6	20.7

429903 2012 TF_{101} 3 8.7 106°.99 6°.2/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 47.78	+25 19.0	2.463	3.273	11.3	20.6
2 11	11 41.42	+25 56.6	2.402	3.283	9.1	20.5
2 21	11 33.11	+26 28.5	2.366	3.293	7.1	20.4
3 2	11 23.52	+26 48.4	2.358	3.302	6.2	20.3
3 12	11 13.52	+26 51.7	2.379	3.312	7.0	20.4
3 22	11 4.03	+26 36.2	2.428	3.321	8.9	20.5
4 1	10 55.86	+26 1.8	2.502	3.331	11.1	20.7
4 11	10 49.57	+25 10.7	2.600	3.340	13.2	20.9

412801 2014 PK_{27} 3 8.7 111°.86 1°.5/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.51	+ 5 48.7	1.953	2.757	14.1	21.9
2 11	11 39.26	+ 6 33.9	1.889	2.779	10.7	21.7
2 21	11 31.89	+ 7 29.6	1.848	2.800	6.8	21.5
3 2	11 23.06	+ 8 30.0	1.835	2.820	2.7	21.3
3 12	11 13.74	+ 9 28.3	1.851	2.839	2.5	21.3
3 22	11 4.90	+10 18.4	1.896	2.858	6.4	21.6
4 1	10 57.43	+10 55.7	1.969	2.876	10.1	21.8
4 11	10 51.97	+11 17.7	2.065	2.894	13.2	22.1

35375 1997 VP_{1} 3 8.7 87°.28 0°.5/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.59	+ 3 10.3	1.784	2.591	15.1	18.5
2 11	11 37.33	+ 3 43.0	1.713	2.603	11.6	18.3
2 21	11 30.80	+ 4 29.3	1.664	2.615	7.4	18.0
3 2	11 22.68	+ 5 24.4	1.641	2.626	2.9	17.8
3 12	11 13.92	+ 6 21.5	1.646	2.638	1.8	17.7
3 22	11 5.59	+ 7 13.7	1.680	2.649	6.3	18.0
4 1	10 58.65	+ 7 55.3	1.740	2.661	10.4	18.3
4 11	10 53.80	+ 8 22.7	1.823	2.672	13.9	18.5

121580 1999 VR_{99} 3 8.7 229°.51 1°.8/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.36	− 3 40.0	2.304	3.074	13.3	20.2
2 11	11 35.33	− 3 22.3	2.202	3.066	10.5	20.0
2 21	11 29.43	− 2 48.8	2.124	3.057	7.3	19.8
3 2	11 22.13	− 2 1.7	2.072	3.048	3.8	19.6
3 12	11 14.17	− 1 5.0	2.049	3.039	1.9	19.4
3 22	11 6.34	− 0 4.1	2.055	3.029	4.8	19.6
4 1	10 59.48	+ 0 55.3	2.090	3.019	8.4	19.8
4 11	10 54.24	+ 1 47.7	2.151	3.009	11.7	20.0

81756 2000 JM_{59} 3 8.7 277°.71 8°.0/15.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.63	−17 44.5	1.956	2.660	17.4	19.6
2 11	11 37.00	−18 26.6	1.841	2.637	15.2	19.4
2 21	11 30.94	−18 45.1	1.743	2.614	12.6	19.1
3 2	11 22.90	−18 36.3	1.668	2.591	10.0	18.9
3 12	11 13.72	−17 59.3	1.617	2.567	8.2	18.8
3 22	11 4.47	−16 56.8	1.593	2.543	8.5	18.7
4 1	10 56.31	−15 35.6	1.594	2.519	10.8	18.8
4 11	10 50.19	−14 5.3	1.620	2.495	13.9	18.9

86152 1999 RZ_{200} 3 8.7 247°.29 5°.9/15.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.38	−16 32.5	2.685	3.373	13.5	19.5
2 11	11 35.18	−17 7.4	2.578	3.366	11.6	19.3
2 21	11 29.27	−17 24.8	2.492	3.359	9.4	19.1
3 2	11 22.06	−17 23.3	2.431	3.352	7.4	19.0
3 12	11 14.20	−17 3.3	2.397	3.345	6.0	18.9
3 22	11 6.43	−16 27.3	2.390	3.337	6.3	18.9
4 1	10 59.50	−15 39.6	2.411	3.330	8.0	19.0
4 11	10 54.01	−14 46.0	2.458	3.322	10.2	19.1

313755 2003 VP_{10} 3 8.7 73°.35 1°.6/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.66	+ 5 35.9	1.525	2.345	16.6	21.1
2 11	11 39.17	+ 6 15.2	1.465	2.363	12.6	20.8
2 21	11 32.08	+ 7 7.5	1.427	2.381	8.0	20.6
3 2	11 23.20	+ 8 6.3	1.414	2.400	3.2	20.4
3 12	11 13.69	+ 9 3.1	1.429	2.418	2.8	20.4
3 22	11 4.79	+ 9 50.5	1.471	2.437	7.4	20.7
4 1	10 57.59	+10 23.0	1.538	2.455	11.7	21.0
4 11	10 52.80	+10 38.0	1.627	2.473	15.4	21.3

104568 2000 GF_{75} 3 8.7 258°.76 2°.5/ 5.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.41	+10 41.2	2.513	3.324	11.1	20.8
2 11	11 36.03	+11 23.4	2.411	3.305	8.5	20.6
2 21	11 29.84	+12 11.8	2.333	3.286	5.5	20.4
3 2	11 22.30	+13 1.8	2.284	3.266	2.9	20.2
3 12	11 14.09	+13 47.9	2.265	3.246	3.4	20.2
3 22	11 6.00	+14 25.3	2.275	3.225	6.4	20.3
4 1	10 58.80	+14 50.3	2.313	3.204	9.5	20.5
4 11	10 53.13	+15 0.8	2.375	3.183	12.4	20.6

340738 2006 SJ_{190} 3 8.7 51°.62 2°.1/ 6.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.10	+10 15.0	2.232	3.044	12.3	20.7
2 11	11 37.32	+10 35.0	2.152	3.047	9.3	20.5
2 21	11 30.63	+11 0.3	2.097	3.050	6.0	20.3
3 2	11 22.58	+11 26.3	2.070	3.053	2.8	20.1
3 12	11 13.99	+11 48.2	2.072	3.057	3.0	20.1
3 22	11 5.72	+12 2.0	2.103	3.060	6.3	20.3
4 1	10 58.59	+12 4.8	2.162	3.064	9.6	20.5
4 11	10 53.21	+11 55.3	2.244	3.068	12.5	20.7

7592 Takinemachi 3 8.7 32.°45 8.°6/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.64	+22 50.2	1.569	2.414	14.9	16.4
2 11	11 37.09	+24 35.3	1.518	2.421	11.9	16.2
2 21	11 30.86	+26 17.3	1.490	2.428	9.4	16.1
3 2	11 22.74	+27 44.4	1.487	2.435	8.7	16.1
3 12	11 13.92	+28 46.3	1.510	2.443	10.2	16.2
3 22	11 5.67	+29 17.1	1.556	2.452	12.8	16.4
4 1	10 59.12	+29 16.0	1.624	2.460	15.7	16.6
4 11	10 55.03	+28 46.0	1.710	2.469	18.3	16.8

242960 2006 SN_{41} 3 8.7 287.°74 2.°4/ 6.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.80	+10 27.4	2.207	3.023	12.3	20.4
2 11	11 36.52	+10 57.3	2.114	3.010	9.4	20.1
2 21	11 30.24	+11 33.5	2.044	2.998	6.1	19.9
3 2	11 22.48	+12 11.0	2.002	2.985	3.0	19.7
3 12	11 14.04	+12 44.4	1.989	2.973	3.4	19.7
3 22	11 5.79	+13 8.7	2.005	2.960	6.7	19.9
4 1	10 58.60	+13 20.5	2.048	2.948	10.1	20.1
4 11	10 53.16	+13 17.9	2.114	2.935	13.2	20.2

401348 2013 AN_{119} 3 8.7 310.°17 4.°0/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.97	− 4 12.5	1.302	2.105	19.8	21.1
2 11	11 38.84	− 4 42.5	1.212	2.092	16.1	20.8
2 21	11 32.54	− 4 51.0	1.141	2.079	11.6	20.5
3 2	11 23.66	− 4 37.3	1.091	2.067	6.8	20.2
3 12	11 13.40	− 4 4.7	1.066	2.054	4.0	20.0
3 22	11 3.28	− 3 19.7	1.066	2.043	7.6	20.1
4 1	10 54.88	− 2 31.4	1.089	2.031	12.8	20.4
4 11	10 49.37	− 1 49.2	1.133	2.020	17.7	20.6

249443 2009 FZ_{61} 3 8.7 312.°28 0.°5/ 8.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.39	+ 3 39.6	2.222	3.026	12.6	21.2
2 11	11 33.87	+ 4 10.7	2.129	3.018	9.7	21.0
2 21	11 28.50	+ 4 53.2	2.060	3.010	6.2	20.7
3 2	11 21.77	+ 5 43.3	2.018	3.003	2.5	20.5
3 12	11 14.41	+ 6 35.8	2.004	2.996	1.6	20.4
3 22	11 7.25	+ 7 25.1	2.020	2.989	5.5	20.6
4 1	11 1.07	+ 8 6.2	2.063	2.982	9.1	20.9
4 11	10 56.52	+ 8 35.4	2.130	2.975	12.3	21.0

32001 Golbin 3 8.7 237.°89 0.°0/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.00	+ 1 35.4	2.144	2.936	13.4	20.3
2 11	11 36.77	+ 2 8.2	2.042	2.924	10.4	20.0
2 21	11 30.47	+ 2 54.9	1.963	2.910	6.8	19.8
3 2	11 22.61	+ 3 52.2	1.912	2.896	2.8	19.5
3 12	11 13.97	+ 4 54.4	1.890	2.882	1.4	19.4
3 22	11 5.46	+ 5 55.3	1.897	2.867	5.6	19.6
4 1	10 57.99	+ 6 48.9	1.932	2.851	9.6	19.8
4 11	10 52.29	+ 7 30.5	1.992	2.835	13.1	20.0

432232 2009 HQ_{58} 3 8.7 286.°08 3.°4/13.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.70	−11 41.0	2.510	3.241	13.3	20.7
2 11	11 32.54	−11 0.7	2.386	3.216	11.0	20.5
2 21	11 27.66	− 9 58.4	2.283	3.191	8.3	20.3
3 2	11 21.46	− 8 34.6	2.206	3.166	5.4	20.1
3 12	11 14.57	− 6 53.1	2.159	3.140	3.4	19.9
3 22	11 7.72	− 4 59.9	2.142	3.115	4.8	19.9
4 1	11 1.65	− 3 2.9	2.155	3.089	7.9	20.1
4 11	10 57.03	− 1 10.0	2.195	3.063	11.1	20.2

437245 2012 XC_{29} 3 8.7 227.°79 3.°3/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.45	− 8 51.2	2.656	3.394	12.5	21.6
2 11	11 34.42	− 8 52.3	2.551	3.386	10.2	21.4
2 21	11 28.75	− 8 37.9	2.467	3.379	7.6	21.3
3 2	11 21.86	− 8 8.4	2.411	3.371	4.9	21.1
3 12	11 14.39	− 7 26.3	2.383	3.362	3.3	20.9
3 22	11 7.04	− 6 35.5	2.384	3.354	4.6	21.0
4 1	11 0.51	− 5 40.7	2.414	3.345	7.3	21.2
4 11	10 55.38	− 4 47.3	2.471	3.336	10.1	21.3

57184 2001 QP_{29} 3 8.7 127.°98 2.°0/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.83	− 5 39.5	2.124	2.890	14.4	18.8
2 11	11 35.69	− 5 1.5	2.042	2.902	11.4	18.6
2 21	11 29.64	− 4 4.6	1.983	2.914	7.9	18.4
3 2	11 22.22	− 2 51.6	1.951	2.926	4.2	18.2
3 12	11 14.25	− 1 28.2	1.947	2.937	2.1	18.0
3 22	11 6.59	− 0 1.5	1.973	2.948	5.0	18.2
4 1	11 0.05	+ 1 21.3	2.028	2.958	8.6	18.5
4 11	10 55.27	+ 2 34.1	2.108	2.968	11.8	18.7

167000 2003 PE_{6} 3 8.7 224.°65 1.°4/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.22	− 2 21.2	1.923	2.705	15.1	21.5
2 11	11 37.94	− 1 57.7	1.823	2.695	12.0	21.3
2 21	11 31.37	− 1 16.1	1.746	2.686	8.2	21.0
3 2	11 23.03	− 0 19.0	1.695	2.675	4.0	20.7
3 12	11 13.81	+ 0 48.3	1.672	2.664	1.7	20.6
3 22	11 4.75	+ 1 58.7	1.678	2.652	5.7	20.8
4 1	10 56.87	+ 3 4.9	1.712	2.640	10.0	21.0
4 11	10 51.00	+ 4 0.6	1.770	2.627	13.8	21.2

18975 2000 QZ_{200} 3 8.7 49.°92 3.°0/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 37.08	+ 6 33.4	1.701	2.529	14.8	18.5
2 11	11 34.09	+ 8 12.0	1.631	2.535	11.1	18.3
2 21	11 28.84	+10 5.5	1.584	2.542	7.0	18.0
3 2	11 21.95	+12 5.0	1.564	2.548	3.4	17.8
3 12	11 14.38	+13 59.3	1.573	2.555	4.4	17.9
3 22	11 7.17	+15 38.6	1.610	2.562	8.3	18.2
4 1	11 1.29	+16 55.6	1.672	2.569	12.2	18.4
4 11	10 57.48	+17 47.4	1.756	2.577	15.5	18.6

173986 2001 XL_{158} 3 8.7 132.°50 0.°7/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.57	+ 4 42.0	2.779	3.573	10.6	21.4
2 11	11 34.26	+ 5 17.9	2.699	3.584	8.1	21.2
2 21	11 28.49	+ 6 2.0	2.645	3.594	5.1	21.0
3 2	11 21.70	+ 6 50.7	2.619	3.604	2.0	20.8
3 12	11 14.52	+ 7 39.7	2.624	3.614	1.6	20.8
3 22	11 7.57	+ 8 24.6	2.659	3.624	4.6	21.0
4 1	11 1.47	+ 9 2.0	2.724	3.633	7.5	21.2
4 11	10 56.71	+ 9 29.2	2.813	3.642	10.1	21.4

15517 1999 VS_{113} 3 8.7 290.°46 2.°5/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.34	+ 9 51.0	1.932	2.750	13.7	18.4
2 11	11 38.07	+10 18.9	1.833	2.731	10.5	18.2
2 21	11 31.47	+10 54.5	1.759	2.713	6.8	17.9
3 2	11 23.08	+11 32.6	1.710	2.694	3.2	17.6
3 12	11 13.79	+12 6.9	1.690	2.675	3.5	17.6
3 22	11 4.66	+12 31.7	1.699	2.657	7.4	17.8
4 1	10 56.73	+12 42.5	1.733	2.638	11.4	18.0
4 11	10 50.84	+12 37.4	1.790	2.620	14.9	18.2

89610 2001 XR_{181} 3 8.7 243.°15 5.°8/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.88	+16 59.1	1.932	2.766	13.0	19.9
2 11	11 36.13	+18 33.2	1.858	2.761	10.1	19.7
2 21	11 30.14	+20 11.7	1.807	2.756	7.2	19.5
3 2	11 22.50	+21 45.3	1.785	2.750	5.8	19.4
3 12	11 14.11	+23 4.7	1.790	2.744	7.1	19.5
3 22	11 6.00	+24 2.8	1.822	2.739	10.0	19.6
4 1	10 59.16	+24 35.9	1.878	2.733	13.1	19.8
4 11	10 54.33	+24 43.9	1.955	2.727	15.9	20.0

66344 1999 JS_{70} 3 8.7 258.°73 5.°4/ 4.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.39	+14 28.7	1.597	2.432	15.3	19.0
2 11	11 39.32	+15 40.0	1.516	2.422	11.7	18.7
2 21	11 32.48	+16 58.4	1.458	2.412	8.0	18.5
3 2	11 23.53	+18 14.7	1.426	2.401	5.5	18.3
3 12	11 13.59	+19 18.5	1.421	2.390	6.7	18.4
3 22	11 3.96	+20 1.5	1.441	2.379	10.4	18.5
4 1	10 55.89	+20 19.3	1.486	2.368	14.4	18.7
4 11	10 50.31	+20 11.6	1.551	2.357	17.9	18.9

224393 2005 UQ_{232} 3 8.7 100.°34 0.°4/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.67	+ 2 57.3	1.936	2.738	14.3	22.1
2 11	11 37.23	+ 3 30.3	1.864	2.751	10.9	21.9
2 21	11 30.69	+ 4 16.2	1.815	2.765	7.1	21.7
3 2	11 22.67	+ 5 10.4	1.793	2.778	2.8	21.5
3 12	11 14.08	+ 6 6.5	1.799	2.791	1.7	21.4
3 22	11 5.89	+ 6 58.4	1.835	2.804	5.9	21.7
4 1	10 58.99	+ 7 40.5	1.897	2.816	9.7	22.0
4 11	10 54.02	+ 8 9.5	1.983	2.828	13.1	22.2

434513 2005 SX_{134} 3 8.7 281.°74 0.°5/ 9.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.26	− 1 29.5	2.511	3.290	12.0	22.5
2 11	11 33.75	− 0 38.9	2.386	3.259	9.5	22.3
2 21	11 28.48	+ 0 28.1	2.286	3.228	6.4	22.0
3 2	11 21.84	+ 1 48.7	2.213	3.196	2.8	21.7
3 12	11 14.45	+ 3 17.8	2.171	3.163	1.2	21.6
3 22	11 7.05	+ 4 48.9	2.160	3.131	4.9	21.8
4 1	11 0.40	+ 6 15.4	2.177	3.098	8.6	21.9
4 11	10 55.18	+ 7 31.4	2.220	3.064	11.9	22.1

460029 2014 OR_{168} 3 8.7 316.°39 4.°6/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.25	+12 50.1	1.349	2.188	17.3	20.8
2 11	11 41.12	+13 30.7	1.274	2.183	13.3	20.5
2 21	11 33.83	+14 18.8	1.220	2.177	8.8	20.2
3 2	11 24.13	+15 5.6	1.191	2.172	5.1	20.0
3 12	11 13.35	+15 41.3	1.187	2.166	5.9	20.0
3 22	11 3.03	+15 58.2	1.208	2.161	10.2	20.2
4 1	10 54.62	+15 52.6	1.252	2.157	14.8	20.5
4 11	10 49.10	+15 24.3	1.316	2.153	18.9	20.7

351215 2004 NQ_{3} 3 8.7 275.°03 4.°5/ 5.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.03	+11 7.3	1.479	2.314	16.3	21.2
2 11	11 39.38	+12 12.9	1.388	2.295	12.5	21.0
2 21	11 32.76	+13 31.0	1.319	2.276	8.3	20.7
3 2	11 23.75	+14 52.8	1.275	2.256	4.8	20.4
3 12	11 13.49	+16 7.0	1.258	2.236	5.9	20.4
3 22	11 3.38	+17 3.8	1.266	2.216	10.3	20.6
4 1	10 54.85	+17 36.2	1.298	2.196	14.9	20.8
4 11	10 48.99	+17 42.1	1.350	2.176	19.1	21.0

264697 2002 AV_{100} 3 8.7 42°.77 3°.9/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.42	+11 20.3	1.645	2.478	14.9	20.2
2 11	11 36.69	+12 21.2	1.580	2.486	11.3	20.0
2 21	11 30.53	+13 30.1	1.538	2.495	7.3	19.8
3 2	11 22.66	+14 38.8	1.522	2.503	4.2	19.6
3 12	11 14.11	+15 38.5	1.533	2.512	5.0	19.7
3 22	11 6.04	+16 22.2	1.571	2.521	8.7	19.9
4 1	10 59.46	+16 45.7	1.634	2.530	12.5	20.1
4 11	10 55.12	+16 48.0	1.717	2.540	15.8	20.4

464053 2014 WL_{220} 3 8.7 36°.55 2°.4/ 6.8 18

2 1	11 43.16	+ 8 52.2	1.616	2.441	15.6	21.0
2 11	11 38.86	+ 9 21.2	1.544	2.445	11.9	20.8
2 21	11 31.99	+ 9 59.4	1.494	2.449	7.6	20.6
3 2	11 23.27	+10 40.6	1.469	2.454	3.4	20.3
3 12	11 13.80	+11 17.5	1.472	2.459	3.6	20.3
3 22	11 4.78	+11 43.7	1.502	2.463	7.8	20.6
4 1	10 57.33	+11 55.1	1.557	2.469	12.0	20.8
4 11	10 52.23	+11 49.7	1.634	2.474	15.6	21.1

140509 2001 TR_{165} 3 8.7 107°.05 1°.6/10.6 18

2 1	11 39.47	− 2 57.9	2.558	3.325	12.2	20.4
2 11	11 35.08	− 2 45.8	2.478	3.340	9.6	20.2
2 21	11 29.08	− 2 20.9	2.421	3.354	6.6	20.0
3 2	11 21.99	− 1 45.3	2.392	3.369	3.4	19.9
3 12	11 14.45	− 1 2.6	2.392	3.383	1.7	19.8
3 22	11 7.19	− 0 17.3	2.423	3.396	4.3	20.0
4 1	11 0.86	+ 0 26.2	2.482	3.410	7.3	20.2
4 11	10 55.99	+ 1 3.9	2.567	3.423	10.1	20.4

288918 2004 SV_{9} 3 8.7 215°.97 1°.9/ 6.9 17

2 1	11 45.10	+ 9 14.6	2.163	2.968	12.9	21.2
2 11	11 39.80	+ 9 33.8	2.072	2.963	9.8	21.0
2 21	11 32.38	+ 9 59.3	2.006	2.958	6.3	20.8
3 2	11 23.41	+10 26.9	1.968	2.952	2.8	20.5
3 12	11 13.73	+10 51.2	1.959	2.945	2.8	20.5
3 22	11 4.32	+11 7.8	1.980	2.939	6.4	20.7
4 1	10 56.08	+11 13.4	2.028	2.932	10.0	20.9
4 11	10 49.73	+11 6.3	2.100	2.924	13.2	21.1

337567 2001 SK_{291} 3 8.7 161°.39 4°.7/15.4 17

2 1	11 39.55	−16 1.1	3.162	3.842	11.7	21.4
2 11	11 34.97	−16 14.5	3.063	3.848	10.0	21.3
2 21	11 28.96	−16 11.9	2.986	3.855	8.0	21.2
3 2	11 21.94	−15 53.1	2.935	3.860	6.1	21.0
3 12	11 14.47	−15 19.4	2.912	3.865	4.8	21.0
3 22	11 7.15	−14 33.4	2.919	3.870	5.1	21.0
4 1	11 0.58	−13 39.5	2.955	3.874	6.6	21.1
4 11	10 55.24	−12 42.3	3.018	3.878	8.6	21.2

380972 2006 RK_{93} 3 8.7 87°.05 2°.5/11.8 17

2 1	11 37.17	− 6 43.1	2.413	3.171	13.1	21.4
2 11	11 33.49	− 6 24.4	2.328	3.181	10.5	21.2
2 21	11 28.15	− 5 49.2	2.266	3.190	7.5	21.0
3 2	11 21.63	− 4 59.3	2.230	3.200	4.4	20.9
3 12	11 14.63	− 3 58.8	2.223	3.210	2.5	20.7
3 22	11 7.88	− 2 52.8	2.245	3.219	4.5	20.9
4 1	11 2.08	− 1 47.1	2.296	3.229	7.5	21.1
4 11	10 57.76	− 0 47.1	2.373	3.239	10.5	21.3

33960 2000 NJ_{9} 3 8.7 221°.38 0°.5/ 9.4 18

2 1	11 38.67	+ 0 29.3	3.101	3.874	10.1	20.2
2 11	11 34.33	+ 0 52.4	2.993	3.863	7.9	20.1
2 21	11 28.59	+ 1 25.3	2.911	3.852	5.2	19.9
3 2	11 21.81	+ 2 5.7	2.857	3.839	2.3	19.7
3 12	11 14.54	+ 2 50.2	2.835	3.827	1.0	19.5
3 22	11 7.37	+ 3 35.1	2.843	3.814	3.9	19.7
4 1	11 0.89	+ 4 16.6	2.881	3.800	6.8	19.9
4 11	10 55.60	+ 4 51.5	2.946	3.786	9.4	20.1

432222 2009 FW_{76} 3 8.7 181°.13 3°.4/13.1 18

2 1	11 35.91	−10 29.5	2.503	3.241	13.2	21.2
2 11	11 32.56	−10 6.5	2.406	3.241	10.8	21.0
2 21	11 27.57	− 9 24.6	2.331	3.241	8.0	20.9
3 2	11 21.42	− 8 25.0	2.281	3.241	5.2	20.7
3 12	11 14.74	− 7 11.3	2.260	3.241	3.4	20.6
3 22	11 8.24	− 5 48.8	2.269	3.241	4.6	20.6
4 1	11 2.61	− 4 23.9	2.306	3.241	7.4	20.8
4 11	10 58.41	− 3 3.0	2.370	3.240	10.3	21.0

27478 Kevinbloh 3 8.7 308°.72 3°.0/11.1 18

2 1	11 41.60	− 4 24.2	1.709	2.492	16.7	19.0
2 11	11 37.68	− 4 31.7	1.621	2.490	13.4	18.8
2 21	11 31.30	− 4 20.1	1.554	2.488	9.5	18.6
3 2	11 23.05	− 3 50.6	1.512	2.486	5.3	18.3
3 12	11 13.93	− 3 7.3	1.496	2.484	3.0	18.2
3 22	11 5.06	− 2 16.4	1.507	2.483	6.1	18.3
4 1	10 57.57	− 1 25.3	1.545	2.481	10.3	18.6
4 11	10 52.28	− 0 40.6	1.606	2.479	14.2	18.8

301365 2009 CS_{44} 3 8.7 328°.62 0°.2/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 35.81	− 0 20.6	2.302	3.094	12.6	20.5
2 11	11 32.59	+ 0 32.9	2.212	3.092	9.8	20.3
2 21	11 27.65	+ 1 41.6	2.145	3.091	6.4	20.1
3 2	11 21.47	+ 3 1.5	2.107	3.090	2.7	19.9
3 12	11 14.73	+ 4 26.4	2.097	3.089	1.2	19.7
3 22	11 8.19	+ 5 49.9	2.117	3.088	5.0	20.0
4 1	11 2.58	+ 7 5.5	2.166	3.088	8.6	20.2
4 11	10 58.51	+ 8 8.4	2.240	3.087	11.7	20.4

498719 2008 TZ_{107} 3 8.7 234°.24 2°.6/ 5.9 17

2 1	11 40.52	+ 9 40.4	2.124	2.941	12.7	21.9
2 11	11 36.37	+10 28.6	2.038	2.935	9.6	21.7
2 21	11 30.19	+11 24.8	1.976	2.930	6.2	21.5
3 2	11 22.53	+12 23.3	1.941	2.924	3.1	21.3
3 12	11 14.20	+13 17.5	1.935	2.918	3.6	21.3
3 22	11 6.11	+14 1.6	1.958	2.911	7.0	21.5
4 1	10 59.13	+14 31.4	2.008	2.905	10.5	21.7
4 11	10 53.95	+14 44.6	2.081	2.898	13.5	21.9

498601 2008 RV_{37} 3 8.7 137°.96 0°.4/ 9.1 17

2 1	11 39.39	+ 0 18.1	2.174	2.964	13.3	22.2
2 11	11 35.37	+ 0 52.0	2.090	2.970	10.3	22.0
2 21	11 29.46	+ 1 39.8	2.030	2.975	6.8	21.8
3 2	11 22.21	+ 2 38.0	1.997	2.980	2.9	21.6
3 12	11 14.38	+ 3 41.1	1.993	2.985	1.2	21.4
3 22	11 6.82	+ 4 42.9	2.018	2.990	5.2	21.7
4 1	11 0.33	+ 5 38.0	2.071	2.994	8.8	22.0
4 11	10 55.54	+ 6 21.8	2.149	2.998	12.0	22.2

428748 2008 SX_{15} 3 8.7 190°.11 0°.4/ 9.1 18

2 1	11 41.56	+ 1 17.9	2.666	3.444	11.5	22.0
2 11	11 36.71	+ 1 37.2	2.570	3.442	8.9	21.8
2 21	11 30.19	+ 2 6.8	2.498	3.440	5.9	21.6
3 2	11 22.49	+ 2 44.1	2.455	3.438	2.5	21.4
3 12	11 14.24	+ 3 25.2	2.442	3.434	1.1	21.3
3 22	11 6.17	+ 4 6.0	2.460	3.431	4.5	21.5
4 1	10 58.98	+ 4 42.3	2.508	3.426	7.7	21.7
4 11	10 53.24	+ 5 10.7	2.581	3.421	10.6	21.9

451086 2009 BP_{123} 3 8.7 86°.96 1°.1/ 9.6 18

2 1	11 44.52	− 0 45.2	1.550	2.349	17.4	21.6
2 11	11 39.84	− 0 24.4	1.486	2.369	13.5	21.4
2 21	11 32.58	+ 0 14.9	1.444	2.389	9.0	21.2
3 2	11 23.51	+ 1 8.5	1.426	2.408	4.1	20.9
3 12	11 13.79	+ 2 9.3	1.435	2.428	1.6	20.8
3 22	11 4.64	+ 3 9.3	1.473	2.447	6.3	21.2
4 1	10 57.17	+ 4 1.2	1.536	2.465	10.8	21.5
4 11	10 52.11	+ 4 39.8	1.622	2.484	14.6	21.7

246021 2006 TS_{117} 3 8.7 210°.24 3°.7/ 3.9 18

2 1	11 38.09	+14 18.7	2.544	3.365	10.7	20.6
2 11	11 34.19	+15 25.6	2.464	3.363	8.1	20.5
2 21	11 28.62	+16 36.5	2.409	3.360	5.5	20.3
3 2	11 21.86	+17 45.6	2.383	3.357	3.8	20.2
3 12	11 14.57	+18 46.8	2.386	3.353	4.6	20.2
3 22	11 7.50	+19 35.1	2.419	3.350	7.1	20.4
4 1	11 1.34	+20 7.2	2.478	3.346	9.8	20.5
4 11	10 56.67	+20 22.1	2.560	3.342	12.3	20.7

491907 2013 CR_{46} 3 8.7 248°.88 3°.6/ 5.7 17

2 1	11 44.66	+10 23.1	1.681	2.504	15.2	22.1
2 11	11 40.24	+11 17.6	1.589	2.489	11.6	21.8
2 21	11 33.11	+12 22.7	1.519	2.474	7.6	21.5
3 2	11 23.86	+13 31.0	1.476	2.458	4.0	21.3
3 12	11 13.54	+14 33.3	1.461	2.442	4.8	21.3
3 22	11 3.41	+15 21.6	1.473	2.425	8.9	21.5
4 1	10 54.72	+15 50.2	1.510	2.407	13.2	21.7
4 11	10 48.42	+15 56.8	1.568	2.389	17.1	21.9

437501 2013 YM_{76} 3 8.7 159°.08 4°.8/ 2.5 17

2 1	11 40.06	+18 41.0	2.546	3.368	10.6	21.4
2 11	11 35.66	+19 51.3	2.477	3.372	8.2	21.3
2 21	11 29.55	+21 2.1	2.433	3.376	5.9	21.1
3 2	11 22.22	+22 7.2	2.418	3.380	4.8	21.1
3 12	11 14.41	+23 0.3	2.433	3.383	5.8	21.1
3 22	11 6.88	+23 37.4	2.475	3.386	8.0	21.3
4 1	11 0.35	+23 56.1	2.543	3.389	10.4	21.4
4 11	10 55.38	+23 56.4	2.634	3.392	12.6	21.6

502506 2015 BK_{420} 3 8.7 119°.96 1°.4/10.1 17

2 1	11 42.98	− 0 58.1	2.216	2.993	13.5	21.6
2 11	11 38.03	− 0 58.2	2.134	3.003	10.6	21.4
2 21	11 31.15	− 0 45.6	2.076	3.014	7.2	21.2
3 2	11 22.90	− 0 22.4	2.044	3.024	3.5	21.0
3 12	11 14.10	+ 0 7.6	2.042	3.033	1.6	20.9
3 22	11 5.60	+ 0 39.9	2.070	3.043	4.9	21.1
4 1	10 58.23	+ 1 9.9	2.125	3.052	8.4	21.3
4 11	10 52.62	+ 1 33.6	2.206	3.061	11.6	21.6

154284 2002 TG_{52} 3 8.7 149°.00 3°.6/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 47.31	+10 41.6	1.572	2.395	16.1	20.2
2 11	11 42.14	+11 29.9	1.501	2.401	12.2	20.0
2 21	11 34.19	+12 26.8	1.453	2.408	7.9	19.8
3 2	11 24.23	+13 24.5	1.431	2.413	4.1	19.6
3 12	11 13.45	+14 14.1	1.437	2.419	4.7	19.6
3 22	11 3.19	+14 48.5	1.470	2.423	8.8	19.9
4 1	10 54.65	+15 3.5	1.528	2.428	13.0	20.1
4 11	10 48.69	+14 58.3	1.608	2.431	16.6	20.3

96660 1999 JN_{9} 3 8.7 191°.34 4°.4/ 4.8 18

2 1	11 46.09	+13 54.5	1.852	2.673	14.1	19.4
2 11	11 40.92	+14 51.1	1.774	2.672	10.8	19.2
2 21	11 33.29	+15 53.0	1.719	2.671	7.2	18.9
3 2	11 23.86	+16 52.6	1.692	2.669	4.6	18.8
3 12	11 13.64	+17 41.7	1.693	2.666	5.5	18.8
3 22	11 3.78	+18 14.1	1.722	2.662	8.8	19.0
4 1	10 55.37	+18 26.5	1.777	2.659	12.4	19.2
4 11	10 49.19	+18 18.3	1.853	2.654	15.6	19.4

421554 2014 OT_{187} 3 8.7 41°.79 2°.4/10.5 18

2 1	11 43.37	− 2 13.7	1.545	2.340	17.6	21.0
2 11	11 39.23	− 2 24.8	1.465	2.343	14.0	20.8
2 21	11 32.40	− 2 17.6	1.406	2.346	9.7	20.5
3 2	11 23.54	− 1 53.7	1.370	2.349	5.0	20.3
3 12	11 13.79	− 1 17.9	1.362	2.352	2.5	20.1
3 22	11 4.40	− 0 36.6	1.380	2.356	6.4	20.4
4 1	10 56.58	+ 0 3.0	1.424	2.359	11.0	20.6
4 11	10 51.22	+ 0 34.6	1.490	2.363	15.1	20.9

270498 2002 ES_{142} 3 8.7 303°.74 1°.8/ 7.2 17

2 1	11 41.01	+ 7 17.9	1.752	2.572	14.8	20.5
2 11	11 37.38	+ 7 44.5	1.649	2.548	11.4	20.2
2 21	11 31.25	+ 8 22.3	1.569	2.524	7.4	19.9
3 2	11 23.13	+ 9 6.3	1.515	2.500	3.1	19.6
3 12	11 13.95	+ 9 49.9	1.488	2.476	3.0	19.5
3 22	11 4.85	+10 26.1	1.488	2.453	7.5	19.8
4 1	10 56.99	+10 49.2	1.514	2.429	12.0	20.0
4 11	10 51.33	+10 55.7	1.562	2.406	16.0	20.1

263153 2007 VW_{254} 3 8.7 72°.41 3°.9/ 5.3 18

2 1	11 41.35	+ 9 49.5	1.518	2.352	16.0	20.1
2 11	11 37.59	+11 5.5	1.457	2.363	12.0	19.9
2 21	11 31.22	+12 32.3	1.417	2.375	7.8	19.7
3 2	11 23.01	+14 0.5	1.404	2.386	4.2	19.5
3 12	11 14.08	+15 19.6	1.418	2.397	5.2	19.6
3 22	11 5.68	+16 21.0	1.458	2.409	9.1	19.8
4 1	10 58.91	+16 59.7	1.522	2.420	13.1	20.1
4 11	10 54.53	+17 14.3	1.607	2.431	16.6	20.3

223242 2003 FS_{14} 3 8.7 9°.57 2°.1/10.7 18

2 1	11 35.83	− 5 13.9	1.547	2.344	17.5	20.3
2 11	11 33.43	− 4 35.2	1.467	2.345	13.9	20.1
2 21	11 28.61	− 3 31.0	1.406	2.346	9.7	19.8
3 2	11 21.99	− 2 4.7	1.370	2.349	5.0	19.6
3 12	11 14.56	− 0 24.2	1.360	2.351	2.2	19.4
3 22	11 7.46	+ 1 20.4	1.377	2.355	6.2	19.6
4 1	11 1.76	+ 2 58.3	1.420	2.358	10.8	19.9
4 11	10 58.26	+ 4 21.0	1.486	2.363	14.9	20.2

118365 1999 FQ_{52} 3 8.7 351°.17 1°.0/ 7.9 18

2 1	11 42.26	+ 5 37.4	1.595	2.414	16.0	19.4
2 11	11 38.31	+ 5 52.1	1.514	2.412	12.3	19.1
2 21	11 31.76	+ 6 18.7	1.456	2.410	8.0	18.9
3 2	11 23.28	+ 6 52.5	1.423	2.408	3.2	18.6
3 12	11 13.94	+ 7 27.1	1.416	2.407	2.3	18.5
3 22	11 4.95	+ 7 55.9	1.437	2.406	7.1	18.8
4 1	10 57.47	+ 8 13.6	1.483	2.406	11.6	19.1
4 11	10 52.35	+ 8 17.1	1.550	2.406	15.5	19.3

463340 2012 PR_{8} 3 8.7 237°.71 2°.7/11.8 17

2 1	11 38.70	− 7 15.2	2.420	3.171	13.2	22.2
2 11	11 34.85	− 6 54.3	2.310	3.159	10.7	22.0
2 21	11 29.19	− 6 15.5	2.224	3.146	7.7	21.8
3 2	11 22.17	− 5 20.3	2.163	3.132	4.6	21.6
3 12	11 14.48	− 4 12.3	2.132	3.119	2.7	21.4
3 22	11 6.89	− 2 56.8	2.131	3.104	4.7	21.5
4 1	11 0.17	− 1 40.2	2.158	3.089	8.0	21.7
4 11	10 54.99	− 0 28.8	2.211	3.074	11.2	21.9

427836 2005 JN_{123} 3 8.7 111°.59 3°.9/13.0 17

2 1	11 38.18	− 9 43.4	2.277	3.020	14.2	21.2
2 11	11 34.47	− 9 44.3	2.183	3.021	11.6	21.0
2 21	11 28.93	− 9 26.6	2.111	3.023	8.7	20.8
3 2	11 22.05	− 8 51.0	2.064	3.024	5.7	20.6
3 12	11 14.56	− 8 0.3	2.046	3.025	3.9	20.5
3 22	11 7.27	− 6 59.4	2.055	3.026	5.2	20.6
4 1	11 0.97	− 5 54.4	2.093	3.027	8.1	20.8
4 11	10 56.28	− 4 51.7	2.156	3.028	11.1	21.0

85215 Hohenzollern 3 8.7 125°.72 0°.3/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.36	+ 2 14.2	2.144	2.937	13.4	19.9
2 11	11 36.85	+ 2 57.2	2.068	2.951	10.2	19.7
2 21	11 30.41	+ 3 52.9	2.017	2.965	6.6	19.5
3 2	11 22.62	+ 4 56.9	1.993	2.977	2.6	19.2
3 12	11 14.32	+ 6 3.1	1.998	2.990	1.5	19.2
3 22	11 6.35	+ 7 5.2	2.034	3.002	5.5	19.5
4 1	10 59.53	+ 7 57.9	2.097	3.013	9.1	19.7
4 11	10 54.47	+ 8 37.5	2.185	3.024	12.2	19.9

498804 2008 UN_{279} 3 8.7 113°.89 1°.3/ 7.3 17

2 1	11 40.67	+ 6 15.2	2.134	2.941	12.9	22.2
2 11	11 36.38	+ 6 50.4	2.056	2.948	9.8	22.1
2 21	11 30.14	+ 7 35.1	2.001	2.954	6.3	21.8
3 2	11 22.53	+ 8 24.5	1.975	2.960	2.5	21.6
3 12	11 14.36	+ 9 12.9	1.977	2.966	2.3	21.6
3 22	11 6.49	+ 9 54.9	2.009	2.972	6.0	21.8
4 1	10 59.76	+10 26.0	2.067	2.978	9.5	22.1
4 11	10 54.80	+10 43.7	2.150	2.983	12.6	22.3

438045 2004 NV_{7} 3 8.7 353°.54 28°.9/14.9 18

2 1	12 3.48	−36 41.4	1.156	1.757	31.8	20.3
2 11	11 58.97	−42 14.3	1.096	1.752	30.8	20.1
2 21	11 48.54	−47 20.7	1.050	1.749	29.9	20.0
3 2	11 31.63	−51 37.4	1.020	1.746	29.3	19.9
3 12	11 9.22	−54 42.3	1.003	1.745	28.9	19.9
3 22	10 44.43	−56 22.7	0.999	1.745	29.0	19.9
4 1	10 21.92	−56 41.2	1.007	1.745	29.4	19.9
4 11	10 5.73	−55 56.5	1.023	1.747	30.0	20.0

310217 2011 SW_{184} 3 8.7 143°.69 1°.2/ 7.6 18

2 1	11 44.33	+ 4 21.8	1.880	2.682	14.6	22.1
2 11	11 39.40	+ 5 9.7	1.805	2.694	11.2	21.9
2 21	11 32.21	+ 6 10.5	1.754	2.705	7.1	21.7
3 2	11 23.40	+ 7 18.8	1.729	2.714	2.8	21.5
3 12	11 13.94	+ 8 26.9	1.734	2.724	2.3	21.4
3 22	11 4.88	+ 9 28.0	1.768	2.732	6.5	21.7
4 1	10 57.19	+10 16.1	1.829	2.740	10.5	22.0
4 11	10 51.57	+10 48.0	1.913	2.747	13.9	22.2

301561 2009 HU_{16} 3 8.7 243°.11 1°.2/ 7.2 18

2 1	11 38.15	+ 6 17.9	2.569	3.372	11.1	21.6
2 11	11 34.24	+ 6 56.0	2.474	3.364	8.5	21.4
2 21	11 28.69	+ 7 42.6	2.405	3.357	5.4	21.2
3 2	11 21.94	+ 8 33.7	2.364	3.349	2.2	20.9
3 12	11 14.64	+ 9 24.5	2.353	3.341	2.1	20.9
3 22	11 7.51	+10 10.2	2.371	3.333	5.3	21.1
4 1	11 1.24	+10 46.7	2.418	3.324	8.5	21.3
4 11	10 56.40	+11 11.3	2.489	3.316	11.3	21.5

155953 2001 QG_{93} 3 8.7 170°.60 1°.2/ 9.9 16

2 1	11 43.58	− 1 4.8	2.427	3.196	12.7	21.0
2 11	11 38.40	− 0 54.8	2.335	3.201	9.9	20.8
2 21	11 31.38	− 0 32.4	2.268	3.204	6.7	20.6
3 2	11 23.04	+ 0 0.2	2.228	3.207	3.2	20.4
3 12	11 14.12	+ 0 39.1	2.218	3.210	1.4	20.3
3 22	11 5.43	+ 1 19.9	2.239	3.212	4.7	20.5
4 1	10 57.76	+ 1 57.9	2.289	3.213	8.1	20.7
4 11	10 51.71	+ 2 29.1	2.365	3.213	11.1	20.9

455455 2003 SY_{355} 3 8.7 69°.32 1°.2/ 9.8 18

2 1	11 40.46	− 1 57.1	1.525	2.328	17.5	21.9
2 11	11 36.96	− 1 26.6	1.451	2.335	13.7	21.6
2 21	11 30.89	− 0 34.8	1.397	2.343	9.2	21.4
3 2	11 22.93	+ 0 34.2	1.368	2.350	4.3	21.1
3 12	11 14.17	+ 1 52.8	1.366	2.358	1.7	21.0
3 22	11 5.83	+ 3 11.8	1.390	2.366	6.4	21.3
4 1	10 59.03	+ 4 22.3	1.440	2.373	11.1	21.6
4 11	10 54.59	+ 5 17.6	1.513	2.381	15.2	21.8

112388 2002 NU_{29} 3 8.7 325°.59 0°.2/ 8.9 18

2 1	11 33.62	− 1 25.7	1.290	2.117	18.6	18.5
2 11	11 32.38	− 0 30.6	1.198	2.098	14.7	18.2
2 21	11 28.34	+ 0 53.5	1.127	2.081	9.8	17.9
3 2	11 22.04	+ 2 42.2	1.078	2.064	4.2	17.5
3 12	11 14.55	+ 4 44.9	1.055	2.047	1.9	17.3
3 22	11 7.22	+ 6 47.8	1.057	2.032	7.9	17.6
4 1	11 1.42	+ 8 36.9	1.082	2.018	13.6	17.9
4 11	10 58.23	+10 2.0	1.127	2.005	18.5	18.1

403198 2008 RV_{24} 3 8.7 275°.23 6°.8/ 5.6 17

2 1	12 6.09	+21 5.7	1.571	2.371	17.1	20.6
2 11	11 57.60	+21 16.3	1.460	2.341	13.8	20.3
2 21	11 45.02	+21 22.0	1.372	2.310	10.1	20.0
3 2	11 29.02	+21 12.5	1.310	2.278	7.1	19.7
3 12	11 11.11	+20 37.9	1.279	2.245	7.8	19.6
3 22	10 53.31	+19 33.8	1.276	2.212	11.8	19.8
4 1	10 37.65	+18 1.6	1.302	2.177	16.4	19.9
4 11	10 25.59	+16 7.8	1.350	2.142	20.8	20.1

45918 2000 YT_{96} 3 8.7 335°.17 1°.0/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.98	+ 0 46.1	1.293	2.119	18.7	18.9
2 11	11 36.47	+ 0 48.9	1.209	2.107	14.7	18.7
2 21	11 30.98	+ 1 11.2	1.144	2.096	9.9	18.3
3 2	11 23.11	+ 1 50.2	1.102	2.086	4.5	18.0
3 12	11 14.07	+ 2 39.0	1.085	2.077	1.8	17.8
3 22	11 5.27	+ 3 29.1	1.092	2.069	7.5	18.1
4 1	10 58.17	+ 4 11.7	1.122	2.062	12.9	18.4
4 11	10 53.80	+ 4 40.0	1.173	2.055	17.6	18.6

30660 4142 $T\text{-}_1$ 3 8.7 258°.83 3°.2/ 6.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.02	+ 9 21.1	1.506	2.333	16.4	19.6
2 11	11 40.81	+10 5.4	1.418	2.320	12.6	19.3
2 21	11 33.65	+11 1.3	1.351	2.307	8.2	19.0
3 2	11 24.18	+12 1.8	1.310	2.293	4.0	18.8
3 12	11 13.55	+12 57.4	1.295	2.280	4.5	18.7
3 22	11 3.16	+13 39.6	1.307	2.266	9.1	19.0
4 1	10 54.38	+14 2.4	1.344	2.251	13.8	19.2
4 11	10 48.24	+14 3.4	1.401	2.237	18.0	19.4

117024 2004 JF_{11} 3 8.7 0°.01 1°.2/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 33.02	+ 0 38.7	1.316	2.149	18.0	19.0
2 11	11 31.67	+ 2 4.3	1.241	2.147	13.8	18.7
2 21	11 27.68	+ 3 56.3	1.188	2.145	8.8	18.4
3 2	11 21.69	+ 6 6.4	1.158	2.145	3.4	18.1
3 12	11 14.80	+ 8 21.6	1.155	2.145	2.9	18.1
3 22	11 8.26	+10 27.3	1.177	2.147	8.3	18.4
4 1	11 3.29	+12 11.5	1.224	2.149	13.3	18.7
4 11	11 0.74	+13 27.3	1.291	2.153	17.6	18.9

39724 1996 VY_{10} 3 8.7 114°.44 3°.7/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.64	− 7 1.7	1.715	2.482	17.2	19.3
2 11	11 39.15	− 7 7.9	1.637	2.493	13.9	19.0
2 21	11 32.20	− 6 52.9	1.579	2.504	10.1	18.8
3 2	11 23.46	− 6 17.6	1.545	2.514	6.1	18.6
3 12	11 13.95	− 5 26.1	1.539	2.524	3.7	18.5
3 22	11 4.83	− 4 25.2	1.560	2.534	6.1	18.7
4 1	10 57.16	− 3 22.6	1.608	2.543	10.0	18.9
4 11	10 51.74	− 2 26.0	1.680	2.552	13.7	19.1

10194 1996 QN_1 3 8.7 227°.91 0°.8/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.71	+ 0 52.3	2.386	3.168	12.5	18.3
2 11	11 37.07	+ 0 53.6	2.290	3.164	9.8	18.1
2 21	11 30.59	+ 1 5.7	2.217	3.159	6.5	17.9
3 2	11 22.75	+ 1 26.5	2.172	3.153	3.0	17.7
3 12	11 14.29	+ 1 52.3	2.156	3.148	1.3	17.5
3 22	11 6.00	+ 2 19.2	2.170	3.142	4.8	17.8
4 1	10 58.69	+ 2 43.1	2.212	3.137	8.3	18.0
4 11	10 52.99	+ 3 0.4	2.280	3.131	11.4	18.2

412021 2013 CR_{17} 3 8.7 311°.84 2°.9/ 6.6 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.06	+ 7 37.8	1.299	2.140	17.7	21.0
2 11	11 37.41	+ 8 23.3	1.212	2.122	13.7	20.7
2 21	11 31.66	+ 9 24.7	1.146	2.105	8.8	20.4
3 2	11 23.43	+10 34.7	1.103	2.089	4.0	20.1
3 12	11 13.91	+11 42.7	1.085	2.072	4.4	20.0
3 22	11 4.59	+12 38.1	1.092	2.057	9.6	20.3
4 1	10 56.97	+13 12.9	1.122	2.042	14.8	20.5
4 11	10 52.18	+13 23.2	1.171	2.027	19.4	20.8

264248 2176 $P\text{–}L$ 3 8.7 100°.38 0°.5/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.74	+ 0 32.9	2.033	2.817	14.3	21.9
2 11	11 39.39	+ 0 57.4	1.968	2.844	11.0	21.7
2 21	11 32.02	+ 1 35.2	1.926	2.869	7.2	21.5
3 2	11 23.28	+ 2 22.7	1.911	2.894	3.1	21.3
3 12	11 14.07	+ 3 14.2	1.926	2.918	1.3	21.2
3 22	11 5.35	+ 4 4.0	1.971	2.942	5.3	21.6
4 1	10 57.94	+ 4 46.9	2.043	2.965	9.0	21.8
4 11	10 52.45	+ 5 19.1	2.141	2.987	12.2	22.1

468908 2014 BS_{61} 3 8.7 164°.48 0°.9/ 9.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.00	+ 0 18.5	2.626	3.402	11.7	21.2
2 11	11 36.31	+ 0 20.3	2.534	3.404	9.1	21.0
2 21	11 29.97	+ 0 32.1	2.467	3.406	6.1	20.8
3 2	11 22.46	+ 0 52.0	2.428	3.408	2.9	20.6
3 12	11 14.45	+ 1 16.9	2.418	3.410	1.2	20.5
3 22	11 6.63	+ 1 43.0	2.439	3.412	4.3	20.7
4 1	10 59.71	+ 2 6.7	2.489	3.413	7.5	20.9
4 11	10 54.25	+ 2 24.8	2.565	3.414	10.3	21.1

9141 Kapur 3 8.7 287°.80 5°.9/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.63	+20 53.4	2.325	3.153	11.3	17.5
2 11	11 35.72	+22 6.6	2.239	3.135	8.9	17.3
2 21	11 29.84	+23 20.2	2.177	3.117	6.8	17.2
3 2	11 22.48	+24 26.9	2.143	3.098	5.9	17.1
3 12	11 14.42	+25 19.7	2.137	3.080	7.0	17.1
3 22	11 6.54	+25 53.3	2.158	3.061	9.4	17.2
4 1	10 59.70	+26 5.2	2.204	3.043	12.0	17.4
4 11	10 54.57	+25 55.5	2.271	3.025	14.5	17.5

390960 2005 OY_{26} 3 8.7 226°.16 0°.5/ 7.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 36.60	+ 2 40.6	2.746	3.537	10.8	21.4
2 11	11 32.98	+ 3 34.6	2.647	3.530	8.3	21.2
2 21	11 27.84	+ 4 39.9	2.574	3.522	5.3	21.0
3 2	11 21.61	+ 5 52.6	2.529	3.514	2.1	20.8
3 12	11 14.86	+ 7 7.7	2.515	3.505	1.5	20.7
3 22	11 8.25	+ 8 19.7	2.531	3.497	4.7	20.9
4 1	11 2.41	+ 9 23.8	2.577	3.488	7.9	21.1
4 11	10 57.86	+10 16.4	2.648	3.479	10.6	21.3

461394 2001 SS_{24} 3 8.7 147°.78 0°.9/ 7.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 46.91	+ 6 23.3	2.058	2.855	13.7	21.5
2 11	11 41.21	+ 6 31.4	1.977	2.862	10.5	21.3
2 21	11 33.32	+ 6 47.7	1.919	2.869	6.8	21.1
3 2	11 23.88	+ 7 8.4	1.890	2.875	2.7	20.9
3 12	11 13.80	+ 7 28.7	1.890	2.880	1.9	20.8
3 22	11 4.08	+ 7 44.1	1.920	2.886	6.0	21.1
4 1	10 55.68	+ 7 51.3	1.977	2.890	9.7	21.3
4 11	10 49.27	+ 7 48.0	2.059	2.895	13.0	21.5

41659 2000 SP_{358} 3 8.7 275°.50 3°.9/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.93	+ 9 55.6	1.847	2.676	13.7	18.7
2 11	11 34.75	+11 31.5	1.766	2.671	10.4	18.4
2 21	11 29.36	+13 19.1	1.710	2.666	6.8	18.2
3 2	11 22.32	+15 9.9	1.682	2.662	4.0	18.0
3 12	11 14.53	+16 53.5	1.682	2.657	5.2	18.1
3 22	11 6.98	+18 21.2	1.710	2.652	8.7	18.3
4 1	11 0.66	+19 26.6	1.764	2.648	12.4	18.5
4 11	10 56.31	+20 7.2	1.839	2.643	15.6	18.7

56949 2000 RQ_{100} 3 8.7 265°.22 6°.2/15.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.90	−17 20.8	2.654	3.337	13.7	19.2
2 11	11 35.78	−17 54.0	2.535	3.318	11.9	19.0
2 21	11 29.85	−18 9.2	2.436	3.299	9.8	18.9
3 2	11 22.51	−18 4.5	2.361	3.279	7.7	18.7
3 12	11 14.42	−17 39.9	2.313	3.259	6.4	18.6
3 22	11 6.32	−16 57.8	2.293	3.239	6.6	18.6
4 1	10 59.01	−16 2.6	2.301	3.218	8.3	18.6
4 11	10 53.17	−15 0.3	2.334	3.198	10.7	18.7

57291 2001 QQ_{172} 3 8.7 59°.22 3°.8/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.50	−10 9.2	2.095	2.843	15.1	18.8
2 11	11 34.02	− 9 56.8	2.016	2.857	12.3	18.6
2 21	11 28.66	− 9 23.5	1.958	2.872	9.1	18.5
3 2	11 21.97	− 8 30.7	1.925	2.886	5.9	18.3
3 12	11 14.74	− 7 22.5	1.920	2.901	3.8	18.2
3 22	11 7.82	− 6 5.0	1.943	2.916	5.2	18.3
4 1	11 2.02	− 4 45.6	1.994	2.930	8.3	18.5
4 11	10 57.92	− 3 31.1	2.070	2.945	11.3	18.7

205511 2001 RW_{140} 3 8.7 206°.81 0°.9/ 7.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.94	+ 5 9.8	2.554	3.352	11.3	21.5
2 11	11 34.84	+ 5 47.1	2.462	3.349	8.6	21.3
2 21	11 29.09	+ 6 33.5	2.394	3.345	5.5	21.1
3 2	11 22.14	+ 7 25.4	2.356	3.341	2.2	20.8
3 12	11 14.65	+ 8 17.7	2.347	3.337	1.8	20.8
3 22	11 7.34	+ 9 5.6	2.368	3.332	5.2	21.0
4 1	11 0.92	+ 9 44.9	2.417	3.327	8.4	21.2
4 11	10 55.95	+10 12.7	2.492	3.322	11.2	21.4

182417 2001 RL_{81} 3 8.7 205°.82 0°.5/ 8.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.66	+ 3 47.1	2.326	3.118	12.5	21.7
2 11	11 37.87	+ 4 18.6	2.230	3.112	9.6	21.5
2 21	11 31.16	+ 5 1.1	2.158	3.106	6.2	21.3
3 2	11 23.02	+ 5 50.7	2.114	3.099	2.5	21.1
3 12	11 14.22	+ 6 42.3	2.100	3.092	1.6	21.0
3 22	11 5.59	+ 7 30.6	2.117	3.083	5.4	21.2
4 1	10 57.98	+ 8 10.7	2.161	3.074	9.0	21.4
4 11	10 52.04	+ 8 39.3	2.231	3.065	12.2	21.6

212711 2007 RE_{45} 3 8.7 97°.59 2°.0/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.75	− 4 13.2	1.723	2.501	16.7	20.9
2 11	11 39.06	− 3 47.4	1.656	2.524	13.2	20.7
2 21	11 32.02	− 3 1.3	1.610	2.546	9.0	20.5
3 2	11 23.35	− 1 58.3	1.590	2.568	4.6	20.3
3 12	11 14.10	− 0 45.1	1.598	2.589	2.1	20.1
3 22	11 5.35	+ 0 30.4	1.635	2.610	5.7	20.4
4 1	10 58.10	+ 1 40.4	1.699	2.630	9.8	20.7
4 11	10 53.03	+ 2 38.7	1.786	2.649	13.4	21.0

466433 2013 TV_{51} 3 8.7 212°.77 2°.2/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.17	− 6 10.1	2.492	3.244	12.9	22.7
2 11	11 35.90	− 5 42.4	2.386	3.236	10.3	22.5
2 21	11 29.85	− 4 57.7	2.302	3.227	7.3	22.3
3 2	11 22.49	− 3 57.8	2.246	3.218	4.1	22.1
3 12	11 14.47	− 2 46.8	2.219	3.207	2.2	21.9
3 22	11 6.58	− 1 30.0	2.223	3.196	4.6	22.1
4 1	10 59.57	− 0 13.7	2.256	3.185	7.9	22.2
4 11	10 54.08	+ 0 56.3	2.315	3.172	11.0	22.4

127633 2003 CG_2 3 8.7 295°.35 2°.5/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 36.97	+ 9 13.3	2.318	3.136	11.7	19.5
2 11	11 33.54	+10 16.3	2.233	3.132	8.8	19.3
2 21	11 28.33	+11 27.6	2.173	3.128	5.7	19.1
3 2	11 21.85	+12 41.6	2.142	3.124	2.9	18.9
3 12	11 14.80	+13 51.7	2.139	3.120	3.5	19.0
3 22	11 7.96	+14 51.9	2.166	3.116	6.6	19.1
4 1	11 2.07	+15 37.8	2.219	3.113	9.8	19.3
4 11	10 57.75	+16 7.0	2.296	3.109	12.6	19.5

488546 2001 TW_{28} 3 8.7 84°.32 4°.0/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.20	−11 23.9	2.445	3.172	13.7	21.0
2 11	11 35.01	−11 23.3	2.368	3.194	11.3	20.9
2 21	11 29.15	−11 4.6	2.313	3.215	8.5	20.7
3 2	11 22.14	−10 28.4	2.283	3.235	5.8	20.6
3 12	11 14.68	− 9 37.9	2.281	3.256	4.1	20.5
3 22	11 7.53	− 8 37.7	2.309	3.276	5.0	20.6
4 1	11 1.37	− 7 33.4	2.365	3.296	7.4	20.8
4 11	10 56.75	− 6 31.0	2.447	3.316	10.0	21.0

83461 2001 SV_{66} 3 8.7 282°.01 2°.7/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.64	− 6 55.9	1.823	2.597	16.1	19.1
2 11	11 34.68	− 6 25.9	1.718	2.581	13.0	18.9
2 21	11 29.45	− 5 31.9	1.634	2.564	9.4	18.6
3 2	11 22.43	− 4 15.3	1.574	2.548	5.3	18.4
3 12	11 14.49	− 2 41.5	1.542	2.531	2.8	18.1
3 22	11 6.63	− 0 58.7	1.538	2.515	5.8	18.3
4 1	10 59.92	+ 0 43.4	1.561	2.498	10.1	18.5
4 11	10 55.21	+ 2 15.5	1.609	2.481	14.2	18.7

406126 2006 VC_{70} 3 8.7 99°.40 1°.2/ 9.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.99	− 1 42.6	1.906	2.690	15.2	21.3
2 11	11 38.27	− 1 17.1	1.837	2.711	11.8	21.1
2 21	11 31.42	− 0 35.1	1.791	2.731	7.9	20.9
3 2	11 23.10	+ 0 19.6	1.770	2.751	3.7	20.7
3 12	11 14.23	+ 1 21.3	1.778	2.770	1.5	20.6
3 22	11 5.81	+ 2 23.2	1.816	2.789	5.4	20.9
4 1	10 58.72	+ 3 18.9	1.881	2.808	9.3	21.1
4 11	10 53.62	+ 4 3.7	1.970	2.826	12.7	21.4

48594 1994 VA_2 3 8.7 107°.82 7°.8/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 46.49	+23 49.1	1.846	2.673	13.8	18.2
2 11	11 41.16	+25 15.6	1.797	2.689	11.0	18.0
2 21	11 33.36	+26 37.4	1.773	2.705	8.7	17.9
3 2	11 23.89	+27 44.7	1.775	2.720	7.8	17.9
3 12	11 13.87	+28 29.4	1.804	2.735	9.0	18.0
3 22	11 4.46	+28 47.3	1.859	2.749	11.3	18.1
4 1	10 56.69	+28 38.1	1.937	2.763	13.9	18.3
4 11	10 51.24	+28 4.9	2.034	2.777	16.3	18.5

439972 2001 VX_{26} 3 8.7 104°.14 4°.1/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 47.02	+11 49.5	1.562	2.388	16.0	21.1
2 11	11 41.81	+12 46.1	1.504	2.405	12.1	20.9
2 21	11 33.92	+13 49.6	1.467	2.421	7.9	20.7
3 2	11 24.15	+14 51.5	1.457	2.437	4.4	20.5
3 12	11 13.74	+15 42.9	1.474	2.453	5.2	20.6
3 22	11 3.96	+16 17.1	1.519	2.468	9.0	20.9
4 1	10 55.96	+16 30.6	1.588	2.483	12.9	21.1
4 11	10 50.48	+16 23.4	1.679	2.497	16.2	21.4

111537 2001 YD_{120} 3 8.7 191°.18 3°.8/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.82	+10 52.5	1.813	2.634	14.3	20.3
2 11	11 39.27	+12 3.0	1.733	2.633	10.9	20.1
2 21	11 32.31	+13 22.7	1.678	2.632	7.1	19.8
3 2	11 23.55	+14 43.9	1.649	2.630	4.0	19.7
3 12	11 13.99	+15 57.4	1.650	2.627	4.9	19.7
3 22	11 4.74	+16 55.6	1.678	2.624	8.6	19.9
4 1	10 56.88	+17 33.5	1.732	2.620	12.3	20.1
4 11	10 51.20	+17 49.4	1.807	2.615	15.7	20.3

52297 1991 CH_2 3 8.7 329°.49 20°.2/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 53.39	−22 44.3	1.352	2.040	24.5	17.8
2 11	11 49.42	−26 49.5	1.240	2.000	23.0	17.6
2 21	11 41.07	−30 50.7	1.147	1.962	21.5	17.3
3 2	11 28.12	−34 32.2	1.074	1.925	20.4	17.1
3 12	11 11.29	−37 35.8	1.023	1.889	20.3	16.9
3 22	10 52.34	−39 46.2	0.993	1.854	21.3	16.9
4 1	10 34.07	−40 57.6	0.982	1.822	23.4	16.9
4 11	10 19.31	−41 18.1	0.987	1.791	26.0	16.9

249111 2007 VE_{311} 3 8.7 179°.02 2°.7/ 5.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.56	+11 29.5	2.437	3.250	11.3	20.9
2 11	11 36.13	+12 9.6	2.355	3.251	8.6	20.7
2 21	11 29.94	+12 54.6	2.299	3.251	5.6	20.5
3 2	11 22.50	+13 39.6	2.271	3.251	3.0	20.3
3 12	11 14.53	+14 19.4	2.272	3.251	3.5	20.4
3 22	11 6.82	+14 49.5	2.302	3.251	6.4	20.6
4 1	11 0.10	+15 6.7	2.360	3.251	9.4	20.7
4 11	10 54.97	+15 9.8	2.442	3.250	12.1	20.9

11049 1990 RK_2 3 8.7 188°.20 0°.2/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 43.72	+ 0 30.2	1.469	2.277	17.7	18.6
2 11	11 39.71	+ 1 3.4	1.388	2.277	13.8	18.4
2 21	11 32.87	+ 1 56.9	1.327	2.276	9.2	18.1
3 2	11 23.86	+ 3 6.0	1.291	2.275	3.9	17.8
3 12	11 13.85	+ 4 22.5	1.282	2.274	1.7	17.6
3 22	11 4.18	+ 5 36.7	1.300	2.273	7.2	18.0
4 1	10 56.15	+ 6 39.8	1.343	2.271	12.2	18.3
4 11	10 50.70	+ 7 25.6	1.408	2.268	16.5	18.5

350414 2012 VH_{59} 3 8.7 256°.28 1°.3/ 7.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.94	+ 6 13.6	2.356	3.162	11.9	21.2
2 11	11 35.02	+ 6 49.5	2.264	3.155	9.1	21.0
2 21	11 29.30	+ 7 34.6	2.196	3.148	5.8	20.8
3 2	11 22.27	+ 8 24.7	2.156	3.141	2.4	20.5
3 12	11 14.64	+ 9 14.5	2.145	3.134	2.2	20.5
3 22	11 7.19	+ 9 58.9	2.164	3.127	5.7	20.7
4 1	11 0.70	+10 33.4	2.210	3.119	9.1	20.9
4 11	10 55.77	+10 55.3	2.280	3.112	12.1	21.1

279636 2011 EM_{70} 3 8.7 160°.98 2°.2/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.53	+ 9 9.9	2.097	2.909	13.0	20.6
2 11	11 37.90	+ 9 42.6	2.016	2.911	9.9	20.4
2 21	11 31.21	+10 22.5	1.960	2.913	6.3	20.2
3 2	11 23.05	+11 4.6	1.931	2.915	2.9	20.0
3 12	11 14.27	+11 43.1	1.931	2.916	3.1	20.0
3 22	11 5.80	+12 12.7	1.959	2.917	6.6	20.2
4 1	10 58.52	+12 29.8	2.015	2.918	10.1	20.4
4 11	10 53.09	+12 32.6	2.094	2.919	13.2	20.6

176567 2002 AU_{184} 3 8.7 132°.65 3°.4/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.55	+15 28.2	3.023	3.835	9.4	21.3
2 11	11 34.97	+16 30.6	2.957	3.850	7.1	21.2
2 21	11 28.99	+17 34.7	2.918	3.865	4.8	21.1
3 2	11 22.06	+18 35.6	2.909	3.880	3.4	21.0
3 12	11 14.77	+19 28.4	2.931	3.894	4.2	21.1
3 22	11 7.73	+20 9.5	2.982	3.907	6.2	21.2
4 1	11 1.53	+20 36.7	3.061	3.920	8.5	21.4
4 11	10 56.62	+20 49.3	3.164	3.932	10.5	21.5

305769 2009 DH_{40} 3 8.7 19°.46 1°.6/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.75	+ 4 9.9	2.105	2.916	12.9	20.0
2 11	11 32.75	+ 5 29.4	2.023	2.918	9.8	19.8
2 21	11 27.90	+ 7 2.8	1.966	2.920	6.2	19.6
3 2	11 21.70	+ 8 44.0	1.936	2.922	2.5	19.3
3 12	11 14.92	+10 24.9	1.937	2.924	2.7	19.4
3 22	11 8.38	+11 57.7	1.966	2.926	6.4	19.6
4 1	11 2.87	+13 15.8	2.023	2.929	9.9	19.8
4 11	10 59.02	+14 15.2	2.104	2.932	13.0	20.0

36554 2000 QD_{103} 3 8.7 194°.83 3°.3/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.28	+16 27.0	3.128	3.936	9.2	20.5
2 11	11 36.31	+17 8.5	3.043	3.933	7.0	20.3
2 21	11 29.89	+17 51.0	2.984	3.930	4.8	20.2
3 2	11 22.45	+18 30.2	2.956	3.926	3.4	20.1
3 12	11 14.58	+19 2.0	2.957	3.922	4.0	20.1
3 22	11 6.90	+19 23.1	2.989	3.917	6.1	20.2
4 1	11 0.02	+19 31.5	3.049	3.912	8.4	20.4
4 11	10 54.43	+19 26.8	3.133	3.906	10.5	20.5

325533 2009 ST_{38} 3 8.7 205°.80 1°.0/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.13	+ 5 31.3	2.172	2.972	13.0	21.5
2 11	11 38.35	+ 5 57.6	2.080	2.968	10.0	21.3
2 21	11 31.53	+ 6 33.6	2.013	2.963	6.4	21.1
3 2	11 23.21	+ 7 15.5	1.973	2.958	2.6	20.8
3 12	11 14.19	+ 7 57.7	1.963	2.953	2.0	20.8
3 22	11 5.40	+ 8 35.1	1.982	2.947	5.9	21.0
4 1	10 57.72	+ 9 3.2	2.029	2.941	9.6	21.2
4 11	10 51.84	+ 9 18.9	2.100	2.934	12.8	21.4

495839 2001 VK_{114} 3 8.7 141°.22 5°.7/15.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.13	−15 59.2	2.362	3.058	14.9	21.4
2 11	11 37.45	−16 14.4	2.273	3.069	12.7	21.3
2 21	11 30.86	−16 8.6	2.204	3.081	10.1	21.1
3 2	11 22.91	−15 41.1	2.160	3.091	7.5	21.0
3 12	11 14.36	−14 53.6	2.143	3.101	5.9	20.9
3 22	11 6.05	−13 50.4	2.154	3.110	6.2	20.9
4 1	10 58.81	−12 37.8	2.194	3.119	8.3	21.1
4 11	10 53.26	−11 22.9	2.260	3.127	10.8	21.2

200649 2001 TP_2 3 8.8 218°.25 0°.2/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.39	+ 0 48.4	1.899	2.689	15.0	22.1
2 11	11 39.72	+ 1 20.1	1.800	2.680	11.7	21.8
2 21	11 32.66	+ 2 8.1	1.724	2.670	7.8	21.6
3 2	11 23.76	+ 3 8.6	1.675	2.659	3.3	21.3
3 12	11 13.93	+ 4 15.5	1.655	2.647	1.5	21.1
3 22	11 4.25	+ 5 21.6	1.664	2.634	6.2	21.4
4 1	10 55.81	+ 6 19.7	1.700	2.621	10.5	21.6
4 11	10 49.45	+ 7 4.5	1.760	2.607	14.4	21.8

332541 2008 QG_6 3 8.8 198°.38 2°.9/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.15	− 7 51.4	2.602	3.343	12.6	21.9
2 11	11 35.80	− 7 39.6	2.499	3.339	10.3	21.8
2 21	11 29.75	− 7 11.6	2.419	3.335	7.5	21.6
3 2	11 22.46	− 6 28.6	2.365	3.330	4.6	21.4
3 12	11 14.59	− 5 33.7	2.341	3.325	2.9	21.3
3 22	11 6.85	− 4 31.4	2.347	3.319	4.5	21.4
4 1	10 59.97	− 3 27.1	2.383	3.313	7.5	21.5
4 11	10 54.55	− 2 26.3	2.444	3.305	10.3	21.7

162662 2000 SF_{257} 3 8.8 258°.34 4°.0/ 5.5 18

2 1	11 44.80	+11 41.1	1.661	2.487	15.2	20.0
2 11	11 40.43	+12 33.1	1.571	2.472	11.7	19.8
2 21	11 33.33	+13 34.1	1.503	2.457	7.7	19.5
3 2	11 24.09	+14 36.5	1.461	2.442	4.4	19.2
3 12	11 13.78	+15 31.3	1.447	2.426	5.2	19.3
3 22	11 3.68	+16 10.7	1.459	2.409	9.2	19.4
4 1	10 55.04	+16 29.6	1.497	2.393	13.4	19.6
4 11	10 48.83	+16 26.4	1.555	2.376	17.2	19.8

279677 2011 FT_{31} 3 8.8 0°.76 3°.8/ 5.5 17

2 1	11 42.69	+13 4.7	1.795	2.622	14.2	20.2
2 11	11 38.38	+13 42.3	1.719	2.622	10.8	19.9
2 21	11 31.71	+14 24.9	1.667	2.621	7.1	19.7
3 2	11 23.31	+15 5.9	1.642	2.621	4.1	19.5
3 12	11 14.21	+15 38.0	1.644	2.622	4.8	19.6
3 22	11 5.48	+15 56.0	1.673	2.622	8.3	19.8
4 1	10 58.17	+15 56.6	1.727	2.623	11.9	20.0
4 11	10 53.03	+15 39.3	1.803	2.624	15.2	20.2

217616 2008 UY_{273} 3 8.8 74°.87 4°.1/ 4.8 18

2 1	11 42.79	+14 50.4	2.040	2.863	12.9	20.3
2 11	11 38.16	+15 34.1	1.966	2.866	9.8	20.1
2 21	11 31.41	+16 20.9	1.917	2.869	6.6	19.9
3 2	11 23.15	+17 4.4	1.896	2.871	4.3	19.8
3 12	11 14.29	+17 37.9	1.902	2.874	5.1	19.8
3 22	11 5.80	+17 56.9	1.937	2.877	8.0	20.0
4 1	10 58.59	+17 58.8	1.997	2.880	11.2	20.2
4 11	10 53.31	+17 43.2	2.080	2.883	14.1	20.4

385164 2013 UT_{12} 3 8.8 136°.36 3°.6/ 5.1 18

2 1	11 42.04	+12 47.4	2.096	2.916	12.7	20.8
2 11	11 37.52	+13 39.8	2.023	2.921	9.6	20.6
2 21	11 30.97	+14 37.1	1.974	2.926	6.3	20.4
3 2	11 22.96	+15 33.1	1.953	2.931	3.8	20.2
3 12	11 14.38	+16 21.0	1.960	2.936	4.5	20.3
3 22	11 6.14	+16 55.6	1.996	2.940	7.6	20.5
4 1	10 59.11	+17 13.5	2.058	2.944	10.8	20.7
4 11	10 53.94	+17 14.0	2.143	2.948	13.6	20.9

39924 1998 FL_{60} 3 8.8 247°.28 0°.3/ 9.1 17

2 1	11 41.85	− 0 7.9	2.039	2.826	14.2	19.9
2 11	11 37.71	+ 0 32.7	1.929	2.807	11.1	19.7
2 21	11 31.34	+ 1 30.5	1.843	2.787	7.4	19.4
3 2	11 23.24	+ 2 42.2	1.783	2.766	3.2	19.1
3 12	11 14.20	+ 4 1.8	1.753	2.745	1.4	18.9
3 22	11 5.20	+ 5 21.8	1.752	2.723	5.9	19.2
4 1	10 57.25	+ 6 34.7	1.779	2.700	10.2	19.4
4 11	10 51.18	+ 7 34.5	1.830	2.676	13.9	19.5

275730 2001 CX_{29} 3 8.8 336°.98 5°.7/ 3.1 17

2 1	11 38.26	+15 30.4	1.663	2.506	14.4	19.5
2 11	11 35.29	+16 52.3	1.588	2.498	11.0	19.3
2 21	11 29.87	+18 20.1	1.537	2.491	7.7	19.1
3 2	11 22.61	+19 44.4	1.512	2.484	5.8	18.9
3 12	11 14.54	+20 55.0	1.513	2.478	7.1	19.0
3 22	11 6.78	+21 44.3	1.540	2.472	10.4	19.2
4 1	11 0.43	+22 7.9	1.591	2.467	13.9	19.4
4 11	10 56.29	+22 5.6	1.661	2.462	17.1	19.6

382844 2004 CB_{53} 3 8.8 102°.28 0°.6/ 9.5 17

2 1	11 40.50	+ 0 3.0	2.385	3.166	12.5	21.8
2 11	11 36.02	+ 0 26.1	2.310	3.184	9.7	21.7
2 21	11 29.83	+ 1 1.3	2.259	3.201	6.4	21.5
3 2	11 22.46	+ 1 45.4	2.236	3.218	2.9	21.3
3 12	11 14.65	+ 2 34.0	2.242	3.234	1.1	21.2
3 22	11 7.16	+ 3 22.1	2.278	3.250	4.6	21.4
4 1	11 0.69	+ 4 5.1	2.343	3.266	7.9	21.7
4 11	10 55.79	+ 4 39.4	2.433	3.282	10.8	21.9

368762 2005 VW_{75} 3 8.8 126°.79 2°.6/11.3 18

2 1	11 42.22	− 4 56.4	2.055	2.821	14.8	21.5
2 11	11 37.70	− 4 53.1	1.972	2.831	11.8	21.4
2 21	11 31.12	− 4 32.9	1.911	2.840	8.3	21.2
3 2	11 23.05	− 3 57.4	1.876	2.849	4.7	20.9
3 12	11 14.35	− 3 10.5	1.869	2.857	2.6	20.8
3 22	11 5.96	− 2 17.9	1.891	2.865	5.2	21.0
4 1	10 58.75	− 1 25.6	1.942	2.873	8.8	21.2
4 11	10 53.41	− 0 39.4	2.017	2.881	12.1	21.4

471496 2011 WN_{112} 3 8.8 264°.76 7°.9/19.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.05	−25 15.4	2.810	3.433	14.1	20.6
2 11	11 34.30	−25 56.2	2.706	3.428	12.7	20.5
2 21	11 28.85	−26 16.5	2.619	3.424	11.0	20.4
3 2	11 22.13	−26 13.8	2.555	3.420	9.4	20.2
3 12	11 14.78	−25 47.9	2.514	3.416	8.2	20.1
3 22	11 7.53	−25 0.5	2.500	3.411	7.9	20.1
4 1	11 1.10	−23 56.0	2.512	3.407	8.7	20.2
4 11	10 56.11	−22 40.5	2.549	3.403	10.2	20.2

489257 2006 RQ_{91} 3 8.8 152°.12 0°.6/ 9.5 17

2 1	11 38.12	− 0 17.7	2.692	3.471	11.3	22.0
2 11	11 34.11	+ 0 11.2	2.604	3.476	8.8	21.8
2 21	11 28.57	+ 0 51.7	2.540	3.481	5.9	21.6
3 2	11 21.96	+ 1 40.9	2.504	3.485	2.6	21.4
3 12	11 14.89	+ 2 34.8	2.498	3.490	1.0	21.3
3 22	11 8.02	+ 3 28.6	2.522	3.494	4.2	21.5
4 1	11 1.99	+ 4 18.0	2.575	3.498	7.3	21.7
4 11	10 57.31	+ 4 59.3	2.654	3.501	10.1	21.9

102542 1999 UT_{12} 3 8.8 133°.30 2°.0/11.2 18

2 1	11 40.22	− 5 14.4	2.441	3.199	12.9	20.6
2 11	11 35.83	− 4 50.7	2.357	3.212	10.3	20.5
2 21	11 29.73	− 4 11.4	2.296	3.224	7.2	20.3
3 2	11 22.44	− 3 18.7	2.263	3.236	3.9	20.1
3 12	11 14.66	− 2 16.9	2.259	3.248	2.0	20.0
3 22	11 7.15	− 1 11.2	2.285	3.259	4.4	20.1
4 1	11 0.62	− 0 7.3	2.340	3.269	7.6	20.4
4 11	10 55.62	+ 0 49.7	2.421	3.279	10.5	20.6

430604 2002 TO_{353} 3 8.8 110°.16 2°.0/11.1 18

2 1	11 38.31	− 4 53.4	2.242	3.010	13.6	21.3
2 11	11 34.57	− 4 29.7	2.156	3.017	10.8	21.1
2 21	11 29.02	− 3 49.2	2.092	3.023	7.6	20.9
3 2	11 22.18	− 2 54.2	2.055	3.030	4.1	20.7
3 12	11 14.78	− 1 49.3	2.046	3.036	2.1	20.6
3 22	11 7.63	− 0 40.5	2.067	3.042	4.7	20.8
4 1	11 1.50	+ 0 26.3	2.117	3.048	8.1	21.0
4 11	10 56.99	+ 1 25.3	2.191	3.054	11.3	21.2

395956 2013 AX_{149} 3 8.8 55°.71 1°.4/10.5 17

2 1	11 36.20	− 3 9.4	2.430	3.206	12.5	21.6
2 11	11 32.80	− 2 39.4	2.349	3.216	9.8	21.4
2 21	11 27.78	− 1 54.9	2.290	3.227	6.7	21.2
3 2	11 21.65	− 0 58.7	2.259	3.238	3.4	21.0
3 12	11 15.05	+ 0 4.8	2.257	3.248	1.5	20.9
3 22	11 8.71	+ 1 10.0	2.285	3.259	4.3	21.1
4 1	11 3.27	+ 2 11.5	2.340	3.270	7.6	21.4
4 11	10 59.29	+ 3 4.9	2.422	3.281	10.5	21.6

452620 2005 SQ_{25} 3 8.8 184°.89 1°.1/ 7.8 18

2 1	11 45.77	+ 4 12.8	1.843	2.643	15.0	23.1
2 11	11 40.73	+ 4 55.7	1.757	2.644	11.5	22.8
2 21	11 33.27	+ 5 52.4	1.694	2.644	7.4	22.6
3 2	11 24.00	+ 6 57.7	1.658	2.643	3.0	22.3
3 12	11 13.91	+ 8 4.2	1.651	2.641	2.3	22.3
3 22	11 4.10	+ 9 4.5	1.673	2.638	6.8	22.5
4 1	10 55.67	+ 9 52.3	1.722	2.635	11.0	22.8
4 11	10 49.40	+10 23.9	1.795	2.630	14.7	23.0

466825 2015 BK_{189} 3 8.8 147°.62 2°.1/ 6.3 18

2 1	11 40.70	+ 8 16.6	2.295	3.104	12.1	21.6
2 11	11 36.32	+ 9 10.9	2.217	3.111	9.1	21.4
2 21	11 30.12	+10 13.3	2.165	3.118	5.8	21.2
3 2	11 22.62	+11 18.5	2.141	3.124	2.7	21.0
3 12	11 14.60	+12 20.2	2.146	3.130	3.1	21.0
3 22	11 6.85	+13 12.8	2.182	3.136	6.3	21.3
4 1	11 0.17	+13 52.1	2.244	3.141	9.5	21.5
4 11	10 55.14	+14 16.1	2.331	3.146	12.3	21.7

14950 1996 BE_2 3 8.8 353°.50 5°.9/ 4.4 18 R

2 1	11 40.98	+13 9.0	1.194	2.048	18.1	16.6
2 11	11 38.20	+14 21.4	1.128	2.044	13.9	16.3
2 21	11 32.17	+15 43.6	1.083	2.042	9.3	16.0
3 2	11 23.67	+17 4.3	1.061	2.040	6.0	15.8
3 12	11 14.10	+18 10.4	1.063	2.039	7.4	15.9
3 22	11 5.06	+18 51.9	1.089	2.038	11.7	16.1
4 1	10 58.01	+19 3.8	1.137	2.038	16.3	16.4
4 11	10 53.94	+18 46.6	1.202	2.039	20.3	16.7

23266 2000 YP_{50} 3 8.8 151°.56 0°.3/ 9.1 18

2 1	11 43.80	+ 0 27.9	2.068	2.853	14.1	19.4
2 11	11 38.88	+ 1 2.8	1.987	2.863	10.9	19.2
2 21	11 31.87	+ 1 52.2	1.929	2.873	7.2	18.9
3 2	11 23.38	+ 2 52.2	1.898	2.881	3.1	18.7
3 12	11 14.26	+ 3 56.9	1.897	2.889	1.3	18.6
3 22	11 5.47	+ 4 59.8	1.926	2.896	5.5	18.9
4 1	10 57.89	+ 5 55.0	1.982	2.903	9.3	19.1
4 11	10 52.20	+ 6 38.1	2.064	2.908	12.6	19.3

455393 2002 XU_{28} 3 8.8 152°.51 5°.4/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 42.43	−14 3.3	2.194	2.907	15.5	21.2
2 11	11 37.85	−14 16.1	2.104	2.915	13.0	21.0
2 21	11 31.24	−14 7.6	2.033	2.923	10.2	20.8
3 2	11 23.14	−13 37.0	1.988	2.929	7.3	20.7
3 12	11 14.37	−12 46.5	1.969	2.936	5.5	20.6
3 22	11 5.84	−11 41.0	1.979	2.941	6.2	20.6
4 1	10 58.43	−10 27.1	2.017	2.946	8.7	20.8
4 11	10 52.83	− 9 12.4	2.081	2.951	11.5	20.9

72239 2001 AF_{21} 3 8.8 69°.20 3°.3/ 5.8 18

2 1	11 40.61	+ 7 58.0	1.513	2.345	16.1	19.3
2 11	11 37.15	+ 9 13.8	1.446	2.351	12.2	19.1
2 21	11 31.10	+10 43.0	1.401	2.358	7.8	18.8
3 2	11 23.14	+12 16.9	1.381	2.365	3.8	18.6
3 12	11 14.40	+13 44.6	1.389	2.371	4.6	18.7
3 22	11 6.11	+14 56.6	1.423	2.378	8.8	18.9
4 1	10 59.40	+15 46.6	1.481	2.385	13.0	19.2
4 11	10 55.07	+16 12.4	1.561	2.392	16.7	19.5

42004 2000 YJ_{49} 3 8.8 151°.16 0°.0/ 8.6 18

2 1	11 44.45	+ 1 58.2	2.014	2.804	14.2	20.2
2 11	11 39.43	+ 2 30.6	1.933	2.814	11.0	20.0
2 21	11 32.26	+ 3 16.5	1.876	2.823	7.1	19.7
3 2	11 23.55	+ 4 11.7	1.847	2.831	2.9	19.5
3 12	11 14.21	+ 5 10.1	1.847	2.839	1.5	19.4
3 22	11 5.20	+ 6 5.6	1.876	2.845	5.7	19.7
4 1	10 57.46	+ 6 52.4	1.933	2.851	9.6	19.9
4 11	10 51.66	+ 7 26.6	2.015	2.857	13.0	20.2

497877 2006 UF_{214} 3 8.8 186°.08 3°.2/12.8 17

2 1	11 38.22	− 8 51.2	2.733	3.469	12.2	21.7
2 11	11 34.25	− 8 49.2	2.634	3.469	10.0	21.6
2 21	11 28.73	− 8 32.0	2.558	3.469	7.4	21.4
3 2	11 22.07	− 8 0.3	2.508	3.468	4.8	21.2
3 12	11 14.91	− 7 16.6	2.487	3.467	3.2	21.1
3 22	11 7.90	− 6 25.0	2.496	3.466	4.4	21.2
4 1	11 1.69	− 5 30.1	2.533	3.465	7.0	21.3
4 11	10 56.83	− 4 36.9	2.597	3.463	9.7	21.5

346853 2009 DU_{128} 3 8.8 357°.82 5°.7/ 2.9 18

2 1	11 41.44	+19 37.0	2.065	2.895	12.5	20.2
2 11	11 37.19	+20 32.6	1.995	2.894	9.7	20.0
2 21	11 30.83	+21 27.8	1.949	2.893	7.1	19.9
3 2	11 22.97	+22 15.3	1.929	2.892	5.7	19.8
3 12	11 14.50	+22 48.3	1.938	2.892	6.7	19.8
3 22	11 6.39	+23 2.5	1.973	2.892	9.2	20.0
4 1	10 59.55	+22 56.0	2.033	2.893	12.0	20.2
4 11	10 54.63	+22 29.6	2.114	2.893	14.6	20.4

224389 2005 UX_{203} 3 8.8 345°.08 3°.3/11.6 17

2 1	11 35.79	− 5 41.1	1.442	2.242	18.4	20.1
2 11	11 33.75	− 5 39.1	1.355	2.233	14.9	19.8
2 21	11 29.09	− 5 12.4	1.287	2.224	10.7	19.6
3 2	11 22.41	− 4 22.2	1.242	2.217	6.1	19.3
3 12	11 14.72	− 3 13.7	1.222	2.211	3.4	19.1
3 22	11 7.27	− 1 55.5	1.227	2.206	6.6	19.3
4 1	11 1.28	− 0 37.6	1.257	2.201	11.3	19.5
4 11	10 57.66	+ 0 30.4	1.309	2.198	15.6	19.7

371104 2005 VK_{26} 3 8.8 248°.34 2°.3/10.9 17

2 1	11 41.03	− 4 19.0	2.003	2.777	14.9	22.0
2 11	11 37.07	− 4 8.7	1.901	2.765	11.9	21.7
2 21	11 30.92	− 3 40.5	1.819	2.752	8.4	21.5
3 2	11 23.09	− 2 55.9	1.764	2.739	4.6	21.2
3 12	11 14.40	− 1 59.0	1.737	2.726	2.4	21.0
3 22	11 5.82	− 0 55.8	1.738	2.713	5.4	21.2
4 1	10 58.34	+ 0 6.6	1.767	2.699	9.5	21.4
4 11	10 52.75	+ 1 1.9	1.820	2.685	13.1	21.6

463002 2011 FL_{134} 3 8.8 225°.11 0°.2/ 8.6 17

2 1	11 41.41	+ 2 54.6	2.246	3.039	12.8	22.1
2 11	11 37.04	+ 3 19.7	2.149	3.031	9.9	21.9
2 21	11 30.72	+ 3 56.3	2.076	3.024	6.5	21.7
3 2	11 22.95	+ 4 41.1	2.031	3.015	2.6	21.4
3 12	11 14.49	+ 5 29.0	2.015	3.007	1.4	21.3
3 22	11 6.21	+ 6 14.8	2.029	2.998	5.4	21.6
4 1	10 58.94	+ 6 53.4	2.070	2.989	9.1	21.8
4 11	10 53.36	+ 7 21.2	2.136	2.979	12.3	22.0

79487 1998 FL_{26} 3 8.8 50°.89 1°.5/ 7.6 18

2 1	11 49.15	+ 9 51.5	2.016	2.818	13.8	18.6
2 11	11 42.87	+ 9 38.7	1.944	2.832	10.5	18.4
2 21	11 34.39	+ 9 30.0	1.896	2.846	6.8	18.2
3 2	11 24.39	+ 9 22.0	1.876	2.860	2.9	17.9
3 12	11 13.86	+ 9 10.9	1.886	2.875	2.4	17.9
3 22	11 3.84	+ 8 53.8	1.926	2.889	6.2	18.2
4 1	10 55.25	+ 8 29.0	1.993	2.904	9.8	18.5
4 11	10 48.77	+ 7 55.7	2.085	2.919	12.9	18.7

381170 2007 HH_{95} 3 8.8 196°.78 4°.7/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.97	+18 46.4	2.650	3.466	10.4	21.3
2 11	11 37.19	+19 55.2	2.571	3.463	8.1	21.1
2 21	11 30.66	+21 4.9	2.518	3.459	5.9	21.0
3 2	11 22.88	+22 9.3	2.494	3.455	4.7	20.9
3 12	11 14.55	+23 2.4	2.499	3.450	5.7	20.9
3 22	11 6.44	+23 39.7	2.534	3.444	7.9	21.1
4 1	10 59.28	+23 59.0	2.594	3.438	10.3	21.2
4 11	10 53.67	+24 0.1	2.678	3.431	12.5	21.4

419064 2009 SY_{23} 3 8.8 328°.44 2°.8/10.7 17

2 1	11 41.20	− 2 4.2	1.488	2.290	17.8	19.9
2 11	11 37.93	− 2 29.7	1.395	2.277	14.3	19.6
2 21	11 31.87	− 2 37.9	1.323	2.264	10.1	19.3
3 2	11 23.59	− 2 29.2	1.274	2.252	5.5	19.0
3 12	11 14.16	− 2 7.2	1.250	2.240	2.9	18.8
3 22	11 4.89	− 1 37.5	1.252	2.229	6.7	19.0
4 1	10 57.10	− 1 7.0	1.279	2.219	11.6	19.3
4 11	10 51.82	− 0 42.6	1.328	2.210	16.0	19.5

166612 2002 RZ_{243} 3 8.8 47°.24 0°.7/ 9.6 18

2 1	11 37.16	− 1 40.2	2.011	2.802	14.2	20.0
2 11	11 33.92	− 0 54.6	1.927	2.806	11.1	19.8
2 21	11 28.74	+ 0 8.5	1.866	2.810	7.4	19.5
3 2	11 22.13	+ 1 25.0	1.832	2.814	3.3	19.3
3 12	11 14.92	+ 2 48.5	1.826	2.819	1.3	19.1
3 22	11 7.97	+ 4 11.7	1.849	2.823	5.3	19.4
4 1	11 2.13	+ 5 27.2	1.900	2.828	9.2	19.7
4 11	10 58.03	+ 6 29.6	1.975	2.832	12.6	19.9

21587 Christopynn 3 8.8 233°.49 4°.5/13.9 18

2 1	11 38.16	−12 21.5	2.257	2.986	14.7	17.5
2 11	11 34.61	−12 17.0	2.156	2.982	12.2	17.3
2 21	11 29.18	−11 51.6	2.076	2.977	9.4	17.1
3 2	11 22.33	−11 5.2	2.020	2.972	6.5	16.9
3 12	11 14.81	−10 0.6	1.992	2.967	4.6	16.8
3 22	11 7.45	− 8 43.1	1.993	2.961	5.5	16.8
4 1	11 1.06	− 7 19.6	2.021	2.956	8.3	17.0
4 11	10 56.32	− 5 57.5	2.076	2.950	11.3	17.1

332365 2007 EX_{104} 3 8.8 240°.53 0°.4/ 8.3 17

2 1	11 41.26	+ 3 17.4	2.171	2.968	13.1	21.7
2 11	11 37.04	+ 3 48.0	2.072	2.956	10.1	21.5
2 21	11 30.79	+ 4 30.9	1.996	2.944	6.6	21.2
3 2	11 23.01	+ 5 22.2	1.947	2.932	2.7	21.0
3 12	11 14.49	+ 6 16.6	1.928	2.920	1.6	20.9
3 22	11 6.11	+ 7 8.1	1.938	2.907	5.7	21.1
4 1	10 58.76	+ 7 51.4	1.976	2.893	9.5	21.3
4 11	10 53.15	+ 8 22.6	2.038	2.879	12.9	21.5

175807 1999 RP_{165} 3 8.8 216°.66 0°.2/ 9.1 18

2 1	11 39.21	+ 1 57.4	2.957	3.737	10.4	21.0
2 11	11 34.88	+ 2 15.2	2.855	3.730	8.0	20.8
2 21	11 29.08	+ 2 41.9	2.779	3.722	5.3	20.6
3 2	11 22.23	+ 3 15.1	2.731	3.715	2.3	20.4
3 12	11 14.88	+ 3 51.5	2.714	3.706	1.0	20.3
3 22	11 7.66	+ 4 27.5	2.728	3.698	4.1	20.5
4 1	11 1.19	+ 4 59.3	2.770	3.689	7.0	20.7
4 11	10 55.96	+ 5 24.2	2.839	3.680	9.7	20.8

501381 2013 YG_{64} 3 8.8 91°.12 4°.2/ 3.6 17

2 1	11 39.15	+15 31.3	2.340	3.164	11.4	20.6
2 11	11 35.15	+16 38.7	2.273	3.172	8.7	20.5
2 21	11 29.37	+17 48.9	2.231	3.180	5.9	20.3
3 2	11 22.35	+18 55.3	2.217	3.188	4.3	20.2
3 12	11 14.84	+19 51.6	2.233	3.196	5.2	20.3
3 22	11 7.64	+20 33.0	2.276	3.204	7.7	20.5
4 1	11 1.49	+20 56.6	2.346	3.212	10.4	20.6
4 11	10 56.97	+21 2.0	2.437	3.220	12.8	20.8

179138 2001 SU_{316} 3 8.8 167°.55 2°.1/11.1 17 R

2 1	11 40.80	− 3 47.2	2.588	3.348	12.2	20.7
2 11	11 36.26	− 3 49.1	2.494	3.350	9.7	20.5
2 21	11 30.05	− 3 38.3	2.424	3.352	6.8	20.4
3 2	11 22.64	− 3 16.2	2.381	3.354	3.8	20.2
3 12	11 14.70	− 2 45.6	2.368	3.356	2.1	20.0
3 22	11 6.94	− 2 10.5	2.384	3.357	4.3	20.2
4 1	11 0.07	− 1 35.0	2.430	3.358	7.4	20.4
4 11	10 54.67	− 1 3.3	2.501	3.359	10.2	20.6

243082 2007 LE_{33} 3 8.8 60°.25 2°.9/11.1 18

2 1	11 40.98	− 5 16.9	1.395	2.191	19.1	20.3
2 11	11 37.65	− 5 3.1	1.324	2.200	15.3	20.1
2 21	11 31.54	− 4 24.1	1.271	2.209	10.7	19.8
3 2	11 23.38	− 3 22.3	1.242	2.218	5.8	19.6
3 12	11 14.35	− 2 4.7	1.238	2.228	2.9	19.4
3 22	11 5.77	− 0 41.1	1.260	2.238	6.6	19.7
4 1	10 58.88	+ 0 38.3	1.308	2.248	11.4	19.9
4 11	10 54.54	+ 1 44.8	1.377	2.258	15.6	20.2

345616 2006 SF_{215} 3 8.8 227°.65 3°.6/ 4.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.60	+14 55.5	2.416	3.233	11.3	20.6
2 11	11 37.01	+15 35.9	2.334	3.231	8.6	20.4
2 21	11 30.59	+16 18.9	2.278	3.228	5.8	20.2
3 2	11 22.87	+16 59.1	2.249	3.224	3.8	20.1
3 12	11 14.60	+17 31.1	2.250	3.221	4.5	20.1
3 22	11 6.59	+17 50.8	2.280	3.218	7.1	20.2
4 1	10 59.61	+17 55.8	2.336	3.215	10.0	20.4
4 11	10 54.26	+17 45.3	2.415	3.211	12.6	20.6

81964 2000 QX_{35} 3 8.8 226°.89 0°.2/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.61	+ 1 8.0	2.995	3.773	10.3	21.1
2 11	11 34.45	+ 1 38.4	2.888	3.761	8.0	20.9
2 21	11 28.83	+ 2 18.8	2.805	3.748	5.3	20.7
3 2	11 22.14	+ 3 6.9	2.752	3.735	2.3	20.5
3 12	11 14.94	+ 3 58.8	2.729	3.721	1.0	20.4
3 22	11 7.83	+ 4 50.3	2.736	3.706	4.1	20.6
4 1	11 1.42	+ 5 37.5	2.774	3.692	7.1	20.8
4 11	10 56.23	+ 6 16.8	2.838	3.676	9.7	20.9

469642 2004 TH_{56} 3 8.8 244°.61 2°.0/ 6.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.47	+ 9 35.4	2.347	3.148	12.1	22.1
2 11	11 40.16	+10 0.1	2.242	3.130	9.3	21.8
2 21	11 32.78	+10 31.2	2.161	3.112	6.0	21.6
3 2	11 23.84	+11 4.3	2.110	3.093	2.8	21.4
3 12	11 14.11	+11 34.2	2.088	3.073	2.9	21.3
3 22	11 4.50	+11 56.5	2.096	3.053	6.3	21.5
4 1	10 55.90	+12 7.5	2.133	3.032	9.8	21.7
4 11	10 49.04	+12 5.3	2.194	3.011	13.0	21.9

239575 2008 TY_{89} 3 8.8 45°.09 2°.1/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.50	− 3 39.4	1.338	2.144	19.3	20.6
2 11	11 37.43	− 3 19.1	1.265	2.149	15.3	20.3
2 21	11 31.48	− 2 33.7	1.211	2.155	10.5	20.1
3 2	11 23.39	− 1 26.4	1.181	2.161	5.3	19.8
3 12	11 14.35	− 0 5.1	1.175	2.167	2.3	19.6
3 22	11 5.75	+ 1 19.9	1.196	2.173	6.9	19.9
4 1	10 58.87	+ 2 37.9	1.241	2.180	11.9	20.2
4 11	10 54.62	+ 3 40.6	1.307	2.187	16.3	20.5

410231 2007 TO_{9} 3 8.8 212°.46 1°.7/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 46.61	+ 7 15.2	1.782	2.591	15.0	21.4
2 11	11 41.53	+ 7 38.3	1.694	2.586	11.6	21.1
2 21	11 33.89	+ 8 11.5	1.629	2.581	7.5	20.9
3 2	11 24.34	+ 8 49.6	1.591	2.575	3.1	20.6
3 12	11 13.89	+ 9 26.2	1.581	2.569	2.8	20.5
3 22	11 3.73	+ 9 55.0	1.599	2.563	7.2	20.8
4 1	10 54.99	+10 11.5	1.644	2.556	11.4	21.0
4 11	10 48.53	+10 13.1	1.712	2.549	15.2	21.2

428906 2008 VL_{24} 3 8.8 124°.15 0°.3/ 8.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.52	+ 2 38.3	2.274	3.069	12.6	21.8
2 11	11 35.46	+ 3 16.6	2.193	3.077	9.7	21.6
2 21	11 29.60	+ 4 6.5	2.137	3.085	6.3	21.4
3 2	11 22.46	+ 5 4.2	2.108	3.093	2.5	21.1
3 12	11 14.81	+ 6 4.2	2.108	3.100	1.4	21.1
3 22	11 7.42	+ 7 0.6	2.138	3.107	5.2	21.3
4 1	11 1.06	+ 7 48.7	2.196	3.114	8.7	21.6
4 11	10 56.32	+ 8 24.9	2.279	3.120	11.7	21.8

351574 2005 UU_{271} 3 8.8 103°.10 0°.9/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.77	+ 3 20.5	1.483	2.297	17.3	21.9
2 11	11 40.31	+ 4 3.9	1.418	2.312	13.3	21.6
2 21	11 33.12	+ 5 3.8	1.373	2.326	8.5	21.4
3 2	11 23.99	+ 6 13.8	1.354	2.340	3.4	21.1
3 12	11 14.10	+ 7 24.8	1.363	2.354	2.3	21.1
3 22	11 4.77	+ 8 28.2	1.398	2.367	7.4	21.4
4 1	10 57.16	+ 9 16.8	1.459	2.380	12.0	21.7
4 11	10 52.06	+ 9 46.8	1.542	2.392	15.9	22.0

459107 2012 BW_{108} 3 8.8 69°.82 4°.8/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.34	+11 59.2	1.506	2.343	15.9	21.2
2 11	11 38.36	+13 27.7	1.455	2.362	12.0	21.0
2 21	11 31.77	+15 4.0	1.426	2.382	7.9	20.8
3 2	11 23.40	+16 37.7	1.423	2.401	5.0	20.7
3 12	11 14.40	+17 57.8	1.447	2.421	6.1	20.8
3 22	11 6.03	+18 56.6	1.498	2.440	9.7	21.1
4 1	10 59.34	+19 29.9	1.572	2.460	13.4	21.3
4 11	10 55.07	+19 37.9	1.667	2.479	16.6	21.6

283550 2001 UM_{140} 3 8.8 236°.94 0°.4/ 9.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.99	+ 0 6.1	2.990	3.763	10.5	22.6
2 11	11 34.77	+ 0 36.8	2.876	3.746	8.2	22.4
2 21	11 29.07	+ 1 18.6	2.788	3.728	5.4	22.2
3 2	11 22.26	+ 2 8.9	2.728	3.710	2.4	22.0
3 12	11 14.90	+ 3 4.0	2.699	3.691	1.0	21.8
3 22	11 7.60	+ 3 59.7	2.700	3.671	4.1	22.1
4 1	11 0.99	+ 4 51.6	2.732	3.651	7.1	22.2
4 11	10 55.60	+ 5 36.1	2.790	3.630	9.8	22.4

18631 Maurogherardini 3 8.8 287°.62 2°.9/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 44.38	− 2 55.4	1.872	2.649	15.6	17.1
2 11	11 39.87	− 3 24.2	1.769	2.634	12.6	16.9
2 21	11 32.89	− 3 38.6	1.687	2.619	9.0	16.6
3 2	11 23.98	− 3 39.0	1.630	2.604	5.1	16.4
3 12	11 14.05	− 3 27.6	1.602	2.590	3.0	16.2
3 22	11 4.20	− 3 8.5	1.601	2.575	6.0	16.3
4 1	10 55.55	− 2 46.8	1.627	2.560	10.1	16.5
4 11	10 49.01	− 2 28.0	1.677	2.545	13.9	16.7

447422 2006 CC_{24} 3 8.8 86°.63 1°.2/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 46.39	+ 3 48.7	1.479	2.292	17.4	21.8
2 11	11 41.37	+ 4 36.4	1.425	2.318	13.2	21.6
2 21	11 33.68	+ 5 39.4	1.392	2.344	8.4	21.3
3 2	11 24.17	+ 6 50.5	1.384	2.369	3.3	21.1
3 12	11 14.06	+ 8 0.8	1.404	2.394	2.5	21.1
3 22	11 4.66	+ 9 1.6	1.451	2.419	7.3	21.5
4 1	10 57.07	+ 9 46.9	1.525	2.443	11.7	21.8
4 11	10 52.00	+10 13.5	1.620	2.466	15.4	22.1

354888 2006 BR_{165} 3 8.8 330°.67 1°.4/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.87	+ 0 56.5	1.385	2.196	18.4	20.8
2 11	11 40.86	+ 0 42.8	1.303	2.192	14.5	20.5
2 21	11 33.81	+ 0 45.5	1.241	2.188	9.8	20.2
3 2	11 24.41	+ 1 2.5	1.202	2.185	4.6	19.9
3 12	11 13.89	+ 1 28.4	1.189	2.182	1.9	19.7
3 22	11 3.69	+ 1 56.7	1.203	2.179	7.1	20.0
4 1	10 55.24	+ 2 20.4	1.240	2.176	12.3	20.3
4 11	10 49.54	+ 2 34.1	1.300	2.174	16.8	20.5

343068 2009 CR_{35} 3 8.8 302°.99 5°.1/ 2.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.91	+15 43.0	2.052	2.885	12.4	20.3
2 11	11 34.70	+17 4.4	1.963	2.867	9.6	20.1
2 21	11 29.39	+18 31.5	1.900	2.850	6.7	19.9
3 2	11 22.49	+19 56.4	1.863	2.833	5.1	19.7
3 12	11 14.82	+21 10.5	1.855	2.816	6.3	19.8
3 22	11 7.30	+22 7.0	1.874	2.799	9.2	19.9
4 1	11 0.88	+22 41.5	1.917	2.783	12.4	20.1
4 11	10 56.29	+22 52.8	1.982	2.766	15.3	20.2

246542 2008 RW_{64} 3 8.8 195°.78 1°.5/ 7.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.03	+ 7 7.6	2.159	2.966	12.8	20.8
2 11	11 37.54	+ 7 39.6	2.073	2.964	9.8	20.6
2 21	11 31.06	+ 8 20.4	2.011	2.963	6.3	20.4
3 2	11 23.12	+ 9 5.4	1.977	2.961	2.6	20.1
3 12	11 14.55	+ 9 49.0	1.971	2.959	2.5	20.1
3 22	11 6.22	+10 25.8	1.995	2.957	6.1	20.3
4 1	10 59.01	+10 51.7	2.047	2.955	9.7	20.5
4 11	10 53.58	+11 4.2	2.122	2.952	12.9	20.7

112016 2002 GC_{164} 3 8.8 260°.23 0°.3/ 9.0 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.50	+ 0 46.2	1.832	2.628	15.2	21.0
2 11	11 38.51	+ 1 15.2	1.726	2.608	11.9	20.7
2 21	11 32.07	+ 2 1.2	1.641	2.588	8.0	20.4
3 2	11 23.68	+ 3 1.1	1.583	2.567	3.4	20.1
3 12	11 14.23	+ 4 8.6	1.553	2.545	1.5	19.9
3 22	11 4.82	+ 5 16.3	1.551	2.523	6.4	20.2
4 1	10 56.59	+ 6 16.5	1.576	2.500	11.0	20.4
4 11	10 50.46	+ 7 3.2	1.625	2.477	15.1	20.6

65038 2002 AT_{128} 3 8.8 134°.39 3°.7/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.35	+10 56.9	1.706	2.528	15.0	19.3
2 11	11 40.50	+11 57.6	1.638	2.538	11.4	19.1
2 21	11 33.15	+13 6.4	1.593	2.547	7.4	18.9
3 2	11 24.00	+14 15.4	1.575	2.556	4.1	18.7
3 12	11 14.15	+15 15.9	1.586	2.565	4.8	18.8
3 22	11 4.77	+16 0.9	1.623	2.573	8.5	19.0
4 1	10 56.95	+16 26.1	1.687	2.580	12.3	19.2
4 11	10 51.42	+16 30.7	1.771	2.587	15.6	19.5

120872 1998 RD_{23} 3 8.8 233°.93 2°.5/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.16	+ 7 33.5	1.736	2.550	15.2	20.9
2 11	11 40.63	+ 8 25.6	1.641	2.537	11.6	20.6
2 21	11 33.46	+ 9 30.6	1.570	2.524	7.5	20.3
3 2	11 24.24	+10 42.0	1.525	2.509	3.4	20.0
3 12	11 13.98	+11 51.4	1.508	2.494	3.7	20.0
3 22	11 3.88	+12 50.3	1.520	2.478	8.1	20.2
4 1	10 55.15	+13 32.4	1.558	2.462	12.5	20.5
4 11	10 48.72	+13 54.3	1.617	2.445	16.3	20.7

165810 2001 RW_{79} 3 8.8 54°.97 0°.3/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.60	+ 1 57.5	2.166	2.960	13.2	19.9
2 11	11 36.41	+ 2 9.1	2.082	2.963	10.2	19.7
2 21	11 30.29	+ 2 32.2	2.021	2.967	6.8	19.5
3 2	11 22.80	+ 3 3.8	1.987	2.970	2.9	19.3
3 12	11 14.71	+ 3 39.4	1.982	2.974	1.2	19.1
3 22	11 6.89	+ 4 14.2	2.005	2.978	5.1	19.4
4 1	11 0.15	+ 4 43.5	2.057	2.981	8.8	19.6
4 11	10 55.13	+ 5 3.8	2.133	2.985	12.0	19.8

155992 2001 QN_{296} 3 8.8 172°.00 2°.5/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 47.20	+ 8 51.8	1.885	2.693	14.4	20.7
2 11	11 41.76	+ 9 34.1	1.805	2.698	10.9	20.5
2 21	11 33.92	+10 25.3	1.749	2.701	7.0	20.3
3 2	11 24.33	+11 19.3	1.720	2.704	3.3	20.1
3 12	11 13.99	+12 8.9	1.721	2.705	3.5	20.1
3 22	11 4.01	+12 47.8	1.750	2.706	7.4	20.3
4 1	10 55.44	+13 11.6	1.806	2.707	11.2	20.5
4 11	10 49.05	+13 18.5	1.885	2.706	14.6	20.8

411242 2010 RF_{39} 3 8.8 125°.93 5°.5/13.0 18

2 1	11 47.33	− 9 32.2	1.809	2.553	17.3	21.1
2 11	11 42.05	−10 20.3	1.725	2.561	14.3	20.9
2 21	11 34.23	−10 49.2	1.661	2.568	10.9	20.7
3 2	11 24.50	−10 57.1	1.621	2.575	7.5	20.5
3 12	11 13.90	−10 45.3	1.608	2.582	5.6	20.4
3 22	11 3.59	−10 17.7	1.623	2.589	6.9	20.5
4 1	10 54.72	− 9 40.6	1.665	2.595	10.1	20.7
4 11	10 48.12	− 9 1.3	1.731	2.601	13.5	20.9

312162 2007 UE_{57} 3 8.8 72°.20 1°.3/ 7.7 18

2 1	11 44.59	+ 5 17.7	1.501	2.320	16.9	21.2
2 11	11 40.09	+ 5 49.9	1.440	2.337	12.9	21.0
2 21	11 32.93	+ 6 35.4	1.400	2.354	8.2	20.8
3 2	11 23.91	+ 7 27.9	1.385	2.371	3.3	20.5
3 12	11 14.22	+ 8 19.5	1.398	2.388	2.6	20.5
3 22	11 5.12	+ 9 2.7	1.437	2.405	7.3	20.8
4 1	10 57.74	+ 9 32.0	1.502	2.422	11.7	21.1
4 11	10 52.83	+ 9 44.6	1.588	2.438	15.5	21.4

454748 2014 UA_{204} 3 8.8 264°.10 9°.0/17.1 16

2 1	11 40.51	−20 0.6	1.766	2.465	19.2	21.3
2 11	11 37.20	−20 42.0	1.666	2.455	16.8	21.1
2 21	11 31.32	−20 55.2	1.582	2.445	14.1	20.8
3 2	11 23.40	−20 36.2	1.519	2.435	11.3	20.6
3 12	11 14.38	−19 44.1	1.480	2.424	9.3	20.5
3 22	11 5.45	−18 22.9	1.466	2.414	9.3	20.5
4 1	10 57.80	−16 41.0	1.476	2.403	11.4	20.6
4 11	10 52.43	−14 50.3	1.511	2.393	14.4	20.7

41499 2000 QH_{143} 3 8.8 259°.99 0°.8/ 7.9 17

2 1	11 39.94	+ 5 22.8	2.477	3.276	11.6	19.9
2 11	11 35.78	+ 5 47.2	2.377	3.264	8.9	19.7
2 21	11 29.86	+ 6 20.4	2.302	3.252	5.8	19.4
3 2	11 22.63	+ 6 59.0	2.254	3.240	2.3	19.2
3 12	11 14.79	+ 7 38.5	2.237	3.227	1.7	19.1
3 22	11 7.08	+ 8 14.3	2.249	3.214	5.2	19.3
4 1	11 0.26	+ 8 42.3	2.289	3.202	8.6	19.5
4 11	10 54.96	+ 8 59.7	2.353	3.189	11.6	19.7

60703 2000 GU_{53} 3 8.8 233°.65 2°.0/11.1 17

2 1	11 37.50	− 5 10.3	2.246	3.014	13.6	19.8
2 11	11 34.06	− 4 42.4	2.151	3.013	10.9	19.6
2 21	11 28.81	− 3 57.0	2.079	3.011	7.6	19.4
3 2	11 22.21	− 2 56.2	2.034	3.009	4.1	19.2
3 12	11 15.01	− 1 44.7	2.017	3.007	2.0	19.1
3 22	11 8.00	− 0 28.6	2.030	3.005	4.7	19.2
4 1	11 1.96	+ 0 45.4	2.070	3.003	8.3	19.4
4 11	10 57.51	+ 1 51.5	2.136	3.001	11.5	19.6

497276 2005 OU_{17} 3 8.8 167°.95 3°.8/13.3 18

2 1	11 40.43	− 9 59.2	2.810	3.533	12.2	21.5
2 11	11 35.92	−10 17.0	2.712	3.536	10.1	21.4
2 21	11 29.83	−10 20.6	2.637	3.538	7.6	21.2
3 2	11 22.60	−10 9.8	2.588	3.540	5.2	21.0
3 12	11 14.84	− 9 46.5	2.568	3.542	3.8	20.9
3 22	11 7.24	− 9 13.6	2.578	3.543	4.7	21.0
4 1	11 0.44	− 8 35.2	2.616	3.544	7.0	21.2
4 11	10 55.01	− 7 55.9	2.681	3.545	9.5	21.3

462301 2008 FK_{135} 3 8.8 337°.36 2°.1/ 6.9 16

2 1	11 39.19	+ 6 13.7	1.510	2.340	16.2	21.9
2 11	11 36.23	+ 7 2.6	1.430	2.334	12.4	21.7
2 21	11 30.65	+ 8 6.3	1.372	2.329	8.0	21.4
3 2	11 23.08	+ 9 18.1	1.338	2.324	3.4	21.1
3 12	11 14.60	+10 28.9	1.331	2.319	3.4	21.1
3 22	11 6.42	+11 29.5	1.350	2.315	8.1	21.3
4 1	10 59.74	+12 13.1	1.394	2.311	12.7	21.6
4 11	10 55.43	+12 35.8	1.459	2.308	16.6	21.8

403023 2007 XR_{5} 3 8.8 110°.08 1°.0/ 7.9 18

2 1	11 43.91	+ 3 41.8	1.801	2.605	15.1	21.5
2 11	11 39.18	+ 4 30.8	1.734	2.623	11.5	21.3
2 21	11 32.17	+ 5 33.4	1.690	2.641	7.4	21.1
3 2	11 23.59	+ 6 43.8	1.673	2.658	2.9	20.8
3 12	11 14.41	+ 7 54.3	1.685	2.675	2.2	20.8
3 22	11 5.70	+ 8 57.5	1.725	2.691	6.5	21.1
4 1	10 58.41	+ 9 47.6	1.793	2.707	10.5	21.4
4 11	10 53.24	+10 21.2	1.883	2.723	13.9	21.6

114544 2003 BN_{28} 3 8.8 309°.10 2°.0/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 37.78	+ 4 18.1	1.766	2.584	14.8	19.3
2 11	11 34.76	+ 5 41.2	1.684	2.582	11.2	19.1
2 21	11 29.50	+ 7 21.3	1.625	2.581	7.1	18.8
3 2	11 22.56	+ 9 11.2	1.593	2.579	3.0	18.6
3 12	11 14.86	+11 0.8	1.590	2.577	3.3	18.6
3 22	11 7.42	+12 40.3	1.615	2.575	7.5	18.8
4 1	11 1.23	+14 1.7	1.666	2.574	11.6	19.1
4 11	10 57.05	+15 0.6	1.739	2.572	15.2	19.3

503982 2004 TV_{91} 3 8.8 259°.42 4°.8/14.2 17

2 1	11 38.91	−13 28.4	2.221	2.944	15.0	21.9
2 11	11 35.37	−13 17.9	2.105	2.926	12.7	21.7
2 21	11 29.83	−12 44.5	2.009	2.906	9.9	21.5
3 2	11 22.71	−11 47.3	1.938	2.887	6.9	21.3
3 12	11 14.76	−10 29.0	1.893	2.867	4.9	21.1
3 22	11 6.85	− 8 55.0	1.878	2.847	5.8	21.1
4 1	10 59.88	− 7 13.1	1.891	2.826	8.8	21.2
4 11	10 54.61	− 5 31.9	1.930	2.805	12.1	21.4

433603 2013 YG_{70} 3 8.8 262°.99 3°.5/12.3 17

2 1	11 41.42	− 7 13.5	2.472	3.217	13.1	20.8
2 11	11 36.99	− 7 35.7	2.365	3.206	10.8	20.6
2 21	11 30.71	− 7 43.7	2.280	3.194	8.0	20.4
3 2	11 23.03	− 7 37.6	2.221	3.183	5.1	20.2
3 12	11 14.65	− 7 19.0	2.191	3.171	3.5	20.0
3 22	11 6.35	− 6 51.2	2.190	3.159	5.0	20.1
4 1	10 58.94	− 6 18.5	2.217	3.147	7.9	20.3
4 11	10 53.07	− 5 45.8	2.270	3.135	10.9	20.4

362429 2010 RU_{4} 3 8.8 258°.29 1°.5/ 7.5 16

2 1	11 44.01	+ 5 54.6	1.795	2.606	14.9	21.7
2 11	11 39.71	+ 6 29.6	1.695	2.588	11.5	21.4
2 21	11 32.88	+ 7 17.5	1.616	2.569	7.5	21.1
3 2	11 24.04	+ 8 13.3	1.565	2.550	3.1	20.8
3 12	11 14.15	+ 9 9.9	1.541	2.530	2.7	20.7
3 22	11 4.36	+10 0.0	1.545	2.510	7.3	21.0
4 1	10 55.83	+10 37.2	1.576	2.490	11.8	21.2
4 11	10 49.49	+10 57.7	1.630	2.469	15.7	21.4

243803 2000 SC_{157} 3 8.8 185°.29 1°.7/ 7.1 18

2 1	11 44.75	+ 6 28.9	2.048	2.850	13.6	21.9
2 11	11 39.77	+ 7 16.0	1.961	2.851	10.4	21.7
2 21	11 32.59	+ 8 13.9	1.899	2.850	6.7	21.5
3 2	11 23.81	+ 9 17.2	1.865	2.849	2.8	21.2
3 12	11 14.31	+10 19.1	1.860	2.847	2.7	21.2
3 22	11 5.07	+11 13.0	1.884	2.845	6.6	21.4
4 1	10 57.04	+11 53.9	1.937	2.841	10.4	21.7
4 11	10 50.96	+12 18.8	2.012	2.837	13.7	21.9

51975 2001 RD_{54} 3 8.8 48°.19 0°.9/ 7.9 18

2 1	11 39.52	+ 4 46.7	1.994	2.803	13.6	18.8
2 11	11 35.67	+ 5 18.7	1.924	2.816	10.4	18.6
2 21	11 29.84	+ 6 1.6	1.878	2.830	6.6	18.4
3 2	11 22.63	+ 6 50.6	1.858	2.843	2.6	18.2
3 12	11 14.89	+ 7 39.9	1.866	2.857	1.9	18.2
3 22	11 7.52	+ 8 23.6	1.903	2.871	5.8	18.5
4 1	11 1.35	+ 8 57.1	1.967	2.885	9.5	18.7
4 11	10 56.98	+ 9 17.4	2.055	2.899	12.7	18.9

55186 2001 QQ_{289} 3 8.8 81°.05 0°.0/ 8.9 18

2 1	11 39.26	+ 1 41.3	2.188	2.983	13.1	19.7
2 11	11 35.35	+ 2 10.0	2.108	2.991	10.1	19.5
2 21	11 29.60	+ 2 51.1	2.052	2.999	6.6	19.3
3 2	11 22.53	+ 3 41.0	2.022	3.006	2.7	19.1
3 12	11 14.93	+ 4 34.4	2.022	3.014	1.2	19.0
3 22	11 7.60	+ 5 25.7	2.050	3.022	5.1	19.3
4 1	11 1.33	+ 6 10.0	2.107	3.029	8.7	19.5
4 11	10 56.73	+ 6 43.3	2.187	3.037	11.8	19.7

17144 1999 JW_{98} 3 8.8 39°.79 1°.9/11.0 18

2 1	11 36.11	− 5 22.9	2.067	2.843	14.4	18.2
2 11	11 33.09	− 4 42.0	1.985	2.850	11.4	18.0
2 21	11 28.20	− 3 41.7	1.924	2.858	7.9	17.8
3 2	11 21.98	− 2 25.0	1.889	2.866	4.2	17.5
3 12	11 15.19	− 0 57.7	1.883	2.874	1.9	17.4
3 22	11 8.67	+ 0 32.7	1.906	2.882	4.9	17.6
4 1	11 3.20	+ 1 58.7	1.957	2.891	8.6	17.9
4 11	10 59.42	+ 3 14.0	2.032	2.899	11.9	18.1

460321 2014 QH_{413} 3 8.8 99°.94 0°.9/ 7.9 18

2 1	11 43.54	+ 3 34.7	1.727	2.534	15.5	22.1
2 11	11 39.00	+ 4 20.4	1.661	2.551	11.9	21.9
2 21	11 32.11	+ 5 20.1	1.617	2.568	7.6	21.6
3 2	11 23.59	+ 6 28.0	1.600	2.585	3.0	21.4
3 12	11 14.45	+ 7 36.5	1.611	2.602	2.1	21.4
3 22	11 5.80	+ 8 37.8	1.651	2.618	6.6	21.7
4 1	10 58.62	+ 9 26.0	1.717	2.634	10.7	22.0
4 11	10 53.60	+ 9 57.7	1.806	2.649	14.2	22.2

429570 2011 DZ_{37} 3 8.8 97°.16 1°.2/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 42.71	− 0 20.6	1.935	2.723	14.8	22.0
2 11	11 38.25	− 0 15.8	1.854	2.730	11.6	21.8
2 21	11 31.61	+ 0 3.3	1.796	2.737	7.8	21.6
3 2	11 23.40	+ 0 34.0	1.763	2.744	3.7	21.4
3 12	11 14.52	+ 1 11.7	1.759	2.751	1.5	21.2
3 22	11 5.97	+ 1 50.9	1.784	2.758	5.4	21.5
4 1	10 58.68	+ 2 26.2	1.836	2.765	9.4	21.7
4 11	10 53.35	+ 2 53.1	1.912	2.772	12.8	22.0

201596 2003 ST_{148} 3 8.8 156°.72 0°.7/ 9.6 17

2 1	11 40.62	+ 0 2.2	2.284	3.068	13.0	21.1
2 11	11 36.35	+ 0 22.3	2.197	3.071	10.1	20.9
2 21	11 30.25	+ 0 55.3	2.133	3.075	6.7	20.7
3 2	11 22.81	+ 1 38.2	2.096	3.078	3.0	20.5
3 12	11 14.80	+ 2 26.5	2.088	3.081	1.2	20.3
3 22	11 7.02	+ 3 15.1	2.111	3.083	4.8	20.6
4 1	11 0.27	+ 3 58.9	2.161	3.086	8.4	20.8
4 11	10 55.15	+ 4 33.8	2.236	3.088	11.5	21.0

89992 2002 TS_{66} 3 8.8 223°.04 11°.6/20.3 18

2 1	11 39.15	−26 27.1	1.316	2.007	24.9	19.2
2 11	11 36.98	−26 42.1	1.228	2.005	22.4	18.9
2 21	11 31.60	−26 11.6	1.152	2.002	19.1	18.7
3 2	11 23.64	−24 47.4	1.093	1.999	15.6	18.5
3 12	11 14.37	−22 28.3	1.054	1.995	12.6	18.3
3 22	11 5.37	−19 22.5	1.039	1.992	11.7	18.2
4 1	10 58.22	−15 47.8	1.049	1.988	13.6	18.3
4 11	10 54.05	−12 7.4	1.082	1.984	17.2	18.5

108620 2001 MY_{26} 3 8.8 134°.54 4°.3/13.9 18

2 1	11 42.48	−12 37.6	2.434	3.148	14.1	20.2
2 11	11 37.64	−12 31.3	2.349	3.165	11.7	20.1
2 21	11 31.00	−12 5.6	2.285	3.181	8.9	19.9
3 2	11 23.10	−11 20.9	2.247	3.196	6.1	19.8
3 12	11 14.69	−10 20.3	2.238	3.211	4.3	19.7
3 22	11 6.56	− 9 8.7	2.258	3.224	5.2	19.7
4 1	10 59.46	− 7 52.6	2.308	3.238	7.7	19.9
4 11	10 53.99	− 6 38.3	2.384	3.250	10.4	20.1

207594 2006 QX_{76} 3 8.8 255°.30 3°.0/11.8 18

2 1	11 41.14	− 5 36.3	2.360	3.116	13.4	20.7
2 11	11 36.82	− 5 50.1	2.258	3.108	10.8	20.5
2 21	11 30.62	− 5 49.6	2.178	3.101	7.8	20.3
3 2	11 23.01	− 5 35.2	2.124	3.093	4.7	20.1
3 12	11 14.71	− 5 9.5	2.100	3.085	3.0	20.0
3 22	11 6.53	− 4 36.1	2.104	3.076	4.9	20.1
4 1	10 59.29	− 3 59.8	2.137	3.068	8.1	20.3
4 11	10 53.67	− 3 25.7	2.195	3.060	11.2	20.4

414211 2008 EY_{19} 3 8.8 137°.85 1°.3/ 7.7 18

2 1	11 46.82	+ 7 9.2	2.020	2.821	13.8	20.6
2 11	11 41.25	+ 7 26.4	1.943	2.831	10.5	20.4
2 21	11 33.48	+ 7 51.7	1.890	2.840	6.8	20.2
3 2	11 24.15	+ 8 20.8	1.864	2.849	2.8	19.9
3 12	11 14.21	+ 8 48.3	1.868	2.857	2.3	19.9
3 22	11 4.66	+ 9 9.5	1.901	2.865	6.2	20.2
4 1	10 56.44	+ 9 20.7	1.962	2.872	9.9	20.4
4 11	10 50.23	+ 9 19.9	2.046	2.879	13.2	20.6

471459 2011 UA_{206} 3 8.8 169°.36 3°.6/ 4.1 17

2 1	11 39.82	+16 26.0	2.867	3.682	9.8	21.7
2 11	11 35.39	+17 10.9	2.790	3.684	7.5	21.5
2 21	11 29.44	+17 57.0	2.738	3.685	5.1	21.3
3 2	11 22.44	+18 39.6	2.716	3.687	3.6	21.2
3 12	11 15.01	+19 14.0	2.723	3.688	4.3	21.3
3 22	11 7.81	+19 36.9	2.760	3.689	6.5	21.4
4 1	11 1.47	+19 46.2	2.824	3.689	8.9	21.6
4 11	10 56.49	+19 41.3	2.911	3.690	11.0	21.7

64308 2001 UJ_{30} 3 8.8 166°.24 4°.0/ 5.2 18

2 1	11 45.84	+11 50.4	1.767	2.588	14.6	19.9
2 11	11 40.90	+12 56.5	1.694	2.593	11.1	19.7
2 21	11 33.46	+14 10.3	1.644	2.597	7.3	19.5
3 2	11 24.20	+15 23.8	1.621	2.600	4.3	19.3
3 12	11 14.18	+16 28.0	1.627	2.603	5.2	19.4
3 22	11 4.55	+17 15.8	1.661	2.605	8.7	19.6
4 1	10 56.41	+17 43.0	1.720	2.607	12.5	19.8
4 11	10 50.55	+17 48.6	1.800	2.608	15.8	20.0

247000 1999 VZ_{43} 3 8.8 145°.27 0°.9/ 9.7 18

2 1	11 43.97	− 0 47.8	2.058	2.838	14.3	21.5
2 11	11 39.06	− 0 22.1	1.977	2.849	11.2	21.3
2 21	11 32.07	+ 0 18.6	1.919	2.859	7.5	21.1
3 2	11 23.59	+ 1 10.9	1.888	2.869	3.4	20.9
3 12	11 14.48	+ 2 9.6	1.886	2.878	1.3	20.8
3 22	11 5.71	+ 3 8.4	1.914	2.886	5.3	21.0
4 1	10 58.15	+ 4 1.2	1.970	2.894	9.1	21.3
4 11	10 52.47	+ 4 43.6	2.051	2.901	12.5	21.5

347890 2002 TQ_{207} 3 8.8 142°.41 0°.6/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 48.20	+ 3 42.5	1.738	2.536	15.8	21.7
2 11	11 42.64	+ 4 9.8	1.663	2.548	12.2	21.5
2 21	11 34.55	+ 4 50.3	1.612	2.560	7.9	21.2
3 2	11 24.64	+ 5 39.4	1.586	2.571	3.2	21.0
3 12	11 14.00	+ 6 30.0	1.590	2.581	1.9	20.9
3 22	11 3.82	+ 7 15.5	1.622	2.591	6.6	21.2
4 1	10 55.20	+ 7 50.3	1.682	2.599	10.9	21.5
4 11	10 48.90	+ 8 10.9	1.765	2.607	14.5	21.7

406809 2008 UM_{209} 3 8.8 298°.19 2°.9/ 6.9 17

2 1	11 44.53	+ 8 44.9	1.339	2.173	17.7	21.2
2 11	11 40.87	+ 9 13.3	1.253	2.159	13.7	20.9
2 21	11 34.02	+ 9 53.9	1.188	2.145	8.9	20.6
3 2	11 24.63	+10 39.9	1.147	2.132	4.1	20.3
3 12	11 13.95	+11 22.1	1.131	2.118	4.1	20.3
3 22	11 3.52	+11 51.9	1.141	2.105	9.2	20.5
4 1	10 54.86	+12 3.2	1.174	2.093	14.4	20.8
4 11	10 49.09	+11 53.6	1.227	2.080	18.9	21.0

352409 2007 XH_{41} 3 8.8 141°.85 6°.6/17.8 17

2 1	11 41.71	−21 53.7	3.023	3.659	13.0	21.6
2 11	11 36.88	−22 31.3	2.929	3.669	11.4	21.5
2 21	11 30.46	−22 50.7	2.855	3.680	9.6	21.3
3 2	11 22.90	−22 50.4	2.804	3.690	7.9	21.2
3 12	11 14.81	−22 30.5	2.781	3.699	6.8	21.2
3 22	11 6.87	−21 53.2	2.784	3.708	6.7	21.2
4 1	10 59.76	−21 2.6	2.816	3.716	7.7	21.2
4 11	10 54.02	−20 4.1	2.874	3.725	9.3	21.4

1834 Palach 3 8.8 272°.26 4°.5/13.6 18

2 1	11 39.30	−11 1.7	2.319	3.052	14.2	16.4
2 11	11 35.49	−11 17.9	2.216	3.045	11.9	16.2
2 21	11 29.80	−11 16.1	2.135	3.038	9.1	16.0
3 2	11 22.69	−10 55.9	2.079	3.031	6.3	15.8
3 12	11 14.89	−10 19.1	2.050	3.024	4.6	15.7
3 22	11 7.20	− 9 29.7	2.050	3.017	5.6	15.7
4 1	11 0.46	− 8 33.3	2.077	3.010	8.2	15.9
4 11	10 55.34	− 7 36.2	2.130	3.003	11.2	16.0

209058 2003 QL_{39} 3 8.8 233°.91 0°.0/ 8.9 17

2 1	11 44.36	+ 1 38.8	2.007	2.797	14.3	21.5
2 11	11 39.69	+ 2 5.0	1.903	2.782	11.2	21.2
2 21	11 32.72	+ 2 45.6	1.822	2.767	7.4	20.9
3 2	11 23.96	+ 3 37.3	1.768	2.752	3.1	20.6
3 12	11 14.28	+ 4 34.5	1.743	2.735	1.4	20.5
3 22	11 4.68	+ 5 30.7	1.747	2.718	5.9	20.8
4 1	10 56.22	+ 6 19.6	1.779	2.699	10.2	21.0
4 11	10 49.72	+ 6 56.5	1.835	2.680	13.9	21.2

29742 1999 BQ_{12} 3 8.8 182°.25 6°.8/29.7 18 R

2 1	11 43.36	+22 3.4	2.162	2.986	12.2	17.5
2 11	11 38.72	+23 40.1	2.095	2.987	9.7	17.3
2 21	11 31.91	+25 15.9	2.053	2.987	7.5	17.2
3 2	11 23.55	+26 41.9	2.040	2.987	6.8	17.1
3 12	11 14.52	+27 49.8	2.055	2.986	8.0	17.2
3 22	11 5.79	+28 34.3	2.096	2.985	10.3	17.3
4 1	10 58.31	+28 53.3	2.162	2.983	12.9	17.5
4 11	10 52.77	+28 48.0	2.248	2.981	15.2	17.7

158621 2003 BJ 3 8.8 344°.59 2°.7/10.8 18

2 1	11 39.92	− 3 53.9	1.265	2.075	19.9	19.7
2 11	11 37.31	− 3 48.7	1.185	2.071	16.0	19.4
2 21	11 31.65	− 3 17.8	1.125	2.068	11.2	19.1
3 2	11 23.63	− 2 23.1	1.086	2.065	5.9	18.8
3 12	11 14.45	− 1 11.3	1.072	2.063	2.8	18.6
3 22	11 5.60	+ 0 7.5	1.082	2.061	7.2	18.9
4 1	10 58.50	+ 1 22.1	1.116	2.059	12.5	19.2
4 11	10 54.18	+ 2 23.2	1.171	2.058	17.3	19.4

22892 1999 SV_{16} 3 8.8 261°.34 3°.5/11.9 18

2 1	11 40.85	− 6 47.9	1.670	2.446	17.3	19.3
2 11	11 37.37	− 6 45.0	1.578	2.440	14.1	19.0
2 21	11 31.37	− 6 19.3	1.506	2.434	10.2	18.8
3 2	11 23.44	− 5 31.7	1.457	2.428	6.0	18.5
3 12	11 14.54	− 4 26.6	1.435	2.422	3.5	18.3
3 22	11 5.85	− 3 11.4	1.440	2.416	6.2	18.5
4 1	10 58.50	− 1 55.0	1.472	2.410	10.5	18.7
4 11	10 53.38	− 0 45.9	1.526	2.404	14.5	18.9

167956 2005 EV_{242} 3 8.8 80°.41 5°.4/ 2.5 18

2 1	11 39.53	+17 27.9	2.098	2.929	12.3	19.7
2 11	11 35.78	+18 52.3	2.029	2.930	9.5	19.5
2 21	11 30.00	+20 19.1	1.984	2.931	6.8	19.3
3 2	11 22.76	+21 40.5	1.967	2.932	5.4	19.2
3 12	11 14.90	+22 48.4	1.979	2.933	6.6	19.3
3 22	11 7.34	+23 37.0	2.017	2.934	9.2	19.5
4 1	11 0.95	+24 3.3	2.080	2.935	12.0	19.7
4 11	10 56.39	+24 7.2	2.165	2.936	14.6	19.8

172372 2002 XO_{95} 3 8.8 166°.86 3°.0/12.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.81	− 8 18.5	2.582	3.323	12.7	20.7
2 11	11 34.82	− 8 8.2	2.486	3.326	10.3	20.5
2 21	11 29.20	− 7 41.7	2.414	3.329	7.6	20.4
3 2	11 22.40	− 7 0.1	2.367	3.331	4.7	20.2
3 12	11 15.07	− 6 6.6	2.350	3.333	3.0	20.1
3 22	11 7.92	− 5 5.7	2.362	3.334	4.5	20.2
4 1	11 1.64	− 4 2.7	2.404	3.336	7.3	20.4
4 11	10 56.79	− 3 3.0	2.471	3.337	10.1	20.5

469150 2015 FD_{343} 3 8.8 209°.92 3°.8/ 4.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.30	+15 49.8	2.511	3.329	10.9	20.9
2 11	11 36.76	+16 36.0	2.430	3.326	8.4	20.7
2 21	11 30.47	+17 24.2	2.375	3.323	5.7	20.5
3 2	11 22.92	+18 9.1	2.348	3.320	3.9	20.4
3 12	11 14.84	+18 45.2	2.350	3.317	4.7	20.5
3 22	11 7.00	+19 8.4	2.381	3.314	7.1	20.6
4 1	11 0.16	+19 16.4	2.439	3.311	9.9	20.8
4 11	10 54.88	+19 8.6	2.520	3.307	12.3	20.9

430326 2013 YE_{33} 3 8.8 139°.47 1°.2/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.85	+ 6 6.7	2.310	3.113	12.2	21.5
2 11	11 36.49	+ 6 42.4	2.230	3.119	9.3	21.3
2 21	11 30.32	+ 7 27.0	2.174	3.125	5.9	21.1
3 2	11 22.86	+ 8 16.3	2.145	3.130	2.4	20.9
3 12	11 14.87	+ 9 4.7	2.147	3.136	2.1	20.9
3 22	11 7.15	+ 9 47.2	2.178	3.141	5.6	21.1
4 1	11 0.47	+10 19.8	2.236	3.146	9.0	21.3
4 11	10 55.42	+10 39.8	2.319	3.150	11.9	21.5

466714 2014 WZ_{485} 3 8.8 52°.14 3°.8/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.84	+ 9 8.0	1.493	2.326	16.2	21.1
2 11	11 37.84	+10 36.4	1.453	2.359	12.1	20.9
2 21	11 31.37	+12 14.1	1.435	2.392	7.7	20.7
3 2	11 23.28	+13 51.1	1.443	2.425	4.1	20.6
3 12	11 14.73	+15 16.6	1.479	2.459	5.0	20.7
3 22	11 6.89	+16 22.9	1.542	2.492	8.7	21.0
4 1	11 0.75	+17 5.6	1.629	2.526	12.5	21.3
4 11	10 56.91	+17 24.3	1.737	2.559	15.6	21.6

221068 2005 RK_{24} 3 8.8 191°.61 0°.9/ 8.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 46.43	+ 6 13.9	2.288	3.080	12.7	20.8
2 11	11 40.83	+ 6 25.9	2.196	3.079	9.7	20.6
2 21	11 33.19	+ 6 45.8	2.129	3.077	6.3	20.4
3 2	11 24.08	+ 7 10.0	2.089	3.074	2.6	20.1
3 12	11 14.30	+ 7 34.1	2.081	3.071	1.8	20.1
3 22	11 4.76	+ 7 53.8	2.102	3.067	5.6	20.3
4 1	10 56.33	+ 8 5.6	2.152	3.063	9.2	20.5
4 11	10 49.70	+ 8 7.2	2.227	3.058	12.3	20.7

93591 2000 US_{53} 3 8.8 225°.22 5°.9/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.32	+20 46.0	2.263	3.083	11.9	19.6
2 11	11 39.39	+21 54.1	2.182	3.074	9.3	19.5
2 21	11 32.35	+23 1.9	2.126	3.064	7.0	19.3
3 2	11 23.75	+24 2.1	2.098	3.054	5.9	19.2
3 12	11 14.45	+24 47.4	2.098	3.043	6.9	19.2
3 22	11 5.40	+25 13.2	2.126	3.032	9.4	19.4
4 1	10 57.52	+25 17.1	2.179	3.021	12.1	19.5
4 11	10 51.52	+24 59.8	2.254	3.009	14.5	19.7

115248 2003 ST_{155} 3 8.8 83°.32 0°.3/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.08	+ 0 43.1	1.595	2.398	16.8	20.2
2 11	11 39.58	+ 1 11.2	1.531	2.417	13.0	20.0
2 21	11 32.59	+ 1 56.3	1.489	2.436	8.5	19.8
3 2	11 23.84	+ 2 53.7	1.472	2.455	3.6	19.5
3 12	11 14.45	+ 3 55.8	1.482	2.474	1.5	19.4
3 22	11 5.60	+ 4 55.0	1.520	2.493	6.3	19.8
4 1	10 58.35	+ 5 44.4	1.584	2.512	10.7	20.1
4 11	10 53.42	+ 6 19.5	1.672	2.530	14.5	20.3

283913 2004 FX_{111} 3 8.8 239°.90 0°.9/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.13	− 2 3.2	2.409	3.188	12.5	20.9
2 11	11 33.69	− 1 24.8	2.312	3.184	9.8	20.7
2 21	11 28.54	− 0 31.3	2.239	3.179	6.6	20.5
3 2	11 22.16	+ 0 34.2	2.194	3.175	3.1	20.2
3 12	11 15.20	+ 1 46.9	2.178	3.170	1.2	20.1
3 22	11 8.40	+ 3 0.7	2.191	3.165	4.6	20.3
4 1	11 2.49	+ 4 9.9	2.234	3.160	8.1	20.5
4 11	10 58.06	+ 5 9.5	2.301	3.155	11.2	20.7

384984 2012 TC_{188} 3 8.8 147°.94 4°.0/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.10	+16 23.9	2.533	3.351	10.8	20.9
2 11	11 36.56	+17 17.4	2.460	3.356	8.3	20.8
2 21	11 30.30	+18 12.6	2.414	3.361	5.7	20.6
3 2	11 22.84	+19 3.7	2.395	3.365	4.1	20.5
3 12	11 14.91	+19 45.2	2.406	3.369	4.9	20.6
3 22	11 7.26	+20 13.2	2.446	3.374	7.2	20.7
4 1	11 0.61	+20 25.2	2.512	3.377	9.8	20.9
4 11	10 55.51	+20 21.0	2.601	3.381	12.2	21.1

287515 2003 BM_{75} 3 8.8 147°.32 1°.2/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 43.50	+ 8 3.5	2.682	3.477	10.9	20.7
2 11	11 38.22	+ 8 17.1	2.598	3.483	8.3	20.6
2 21	11 31.31	+ 8 36.1	2.540	3.490	5.3	20.4
3 2	11 23.25	+ 8 57.2	2.511	3.496	2.2	20.2
3 12	11 14.73	+ 9 16.6	2.513	3.501	2.0	20.2
3 22	11 6.48	+ 9 31.1	2.545	3.507	5.0	20.4
4 1	10 59.17	+ 9 37.8	2.606	3.512	8.0	20.6
4 11	10 53.35	+ 9 35.3	2.693	3.517	10.6	20.8

307595 2003 OA_{24} 3 8.8 209°.54 0°.9/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.92	− 1 32.9	1.843	2.631	15.4	20.9
2 11	11 37.92	− 0 56.1	1.750	2.627	12.1	20.6
2 21	11 31.60	− 0 0.3	1.679	2.622	8.2	20.4
3 2	11 23.51	+ 1 10.9	1.634	2.616	3.7	20.1
3 12	11 14.58	+ 2 31.0	1.618	2.610	1.4	19.9
3 22	11 5.84	+ 3 52.0	1.630	2.604	5.9	20.2
4 1	10 58.35	+ 5 5.8	1.670	2.597	10.3	20.4
4 11	10 52.91	+ 6 6.2	1.733	2.589	14.1	20.7

148877 2001 VA_{124} 3 8.8 170°.83 0°.1/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.26	+ 3 1.3	2.090	2.884	13.6	20.6
2 11	11 38.57	+ 3 22.5	2.004	2.886	10.5	20.4
2 21	11 31.81	+ 3 55.5	1.941	2.888	6.9	20.2
3 2	11 23.53	+ 4 36.6	1.906	2.890	2.8	19.9
3 12	11 14.60	+ 5 20.5	1.899	2.891	1.4	19.8
3 22	11 5.93	+ 6 1.9	1.922	2.892	5.6	20.1
4 1	10 58.42	+ 6 35.6	1.973	2.893	9.4	20.3
4 11	10 52.76	+ 6 58.4	2.048	2.893	12.7	20.5

242086 2002 TY_{277} 3 8.8 116°.28 7°.0/18.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.36	−22 28.5	2.470	3.125	15.2	20.1
2 11	11 34.66	−22 34.1	2.378	3.134	13.3	19.9
2 21	11 29.18	−22 15.5	2.304	3.143	11.2	19.8
3 2	11 22.42	−21 31.4	2.253	3.152	9.0	19.7
3 12	11 15.11	−20 23.1	2.227	3.161	7.3	19.6
3 22	11 8.03	−18 55.1	2.229	3.169	7.1	19.6
4 1	11 1.94	−17 14.1	2.258	3.178	8.4	19.7
4 11	10 57.42	−15 28.1	2.315	3.186	10.5	19.8

174823 2003 YV_{33} 3 8.8 214°.30 3°.4/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.02	−10 29.1	2.683	3.410	12.6	20.9
2 11	11 35.02	−10 15.2	2.575	3.402	10.4	20.7
2 21	11 29.37	− 9 44.0	2.489	3.394	7.8	20.5
3 2	11 22.51	− 8 56.0	2.429	3.386	5.1	20.3
3 12	11 15.06	− 7 54.1	2.398	3.377	3.4	20.2
3 22	11 7.72	− 6 42.8	2.397	3.367	4.6	20.2
4 1	11 1.19	− 5 27.6	2.426	3.357	7.3	20.4
4 11	10 56.04	− 4 14.6	2.481	3.347	10.1	20.5

408231 2013 ES_{97} 3 8.8 271°.32 0°.1/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.40	+ 2 9.6	1.539	2.351	16.9	21.6
2 11	11 38.75	+ 2 35.6	1.451	2.343	13.1	21.3
2 21	11 32.38	+ 3 19.0	1.385	2.335	8.7	21.0
3 2	11 23.90	+ 4 15.5	1.343	2.328	3.6	20.7
3 12	11 14.39	+ 5 17.7	1.328	2.320	1.8	20.6
3 22	11 5.12	+ 6 17.1	1.339	2.312	7.1	20.9
4 1	10 57.34	+ 7 6.1	1.377	2.304	12.0	21.1
4 11	10 52.00	+ 7 39.0	1.435	2.296	16.3	21.4

520233 2014 DL_{153} 3 8.8 319°.09 0°.0/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.46	+ 4 1.9	2.396	3.189	12.1	21.1
2 11	11 36.97	+ 4 2.7	2.302	3.184	9.4	20.9
2 21	11 30.67	+ 4 12.0	2.233	3.180	6.1	20.7
3 2	11 23.04	+ 4 27.0	2.191	3.175	2.5	20.5
3 12	11 14.82	+ 4 44.4	2.179	3.171	1.2	20.4
3 22	11 6.80	+ 5 0.2	2.196	3.167	4.9	20.6
4 1	10 59.74	+ 5 11.2	2.242	3.163	8.3	20.8
4 11	10 54.27	+ 5 14.5	2.312	3.159	11.4	21.0

436025 2009 HZ_{73} 3 8.8 304°.93 3°.5/13.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.02	−12 22.0	2.282	3.017	14.4	21.2
2 11	11 32.30	−11 31.8	2.168	3.000	11.9	21.0
2 21	11 27.79	−10 16.4	2.074	2.984	8.9	20.8
3 2	11 21.91	− 8 37.0	2.007	2.968	5.8	20.5
3 12	11 15.34	− 6 38.2	1.969	2.951	3.5	20.4
3 22	11 8.87	− 4 27.5	1.961	2.935	4.9	20.4
4 1	11 3.29	− 2 14.3	1.982	2.920	8.2	20.6
4 11	10 59.26	− 0 7.8	2.031	2.904	11.6	20.8

136707 1995 TE_{6} 3 8.8 136°.01 2°.9/ 5.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.98	+13 11.4	2.642	3.452	10.7	21.3
2 11	11 37.10	+13 47.5	2.567	3.460	8.1	21.1
2 21	11 30.60	+14 26.5	2.518	3.468	5.3	20.9
3 2	11 22.96	+15 3.9	2.498	3.476	3.1	20.8
3 12	11 14.89	+15 34.9	2.507	3.483	3.6	20.8
3 22	11 7.10	+15 56.1	2.547	3.491	6.1	21.0
4 1	11 0.28	+16 4.9	2.613	3.497	8.8	21.2
4 11	10 54.96	+16 0.6	2.705	3.504	11.3	21.4

81036 2000 EQ_{54} 3 8.8 190°.41 5°.9/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 47.38	+19 34.0	1.947	2.769	13.5	19.6
2 11	11 41.94	+20 27.2	1.874	2.768	10.5	19.4
2 21	11 34.09	+21 19.9	1.825	2.767	7.6	19.3
3 2	11 24.49	+22 4.3	1.802	2.766	5.9	19.2
3 12	11 14.18	+22 32.9	1.808	2.765	6.9	19.2
3 22	11 4.29	+22 41.2	1.841	2.763	9.6	19.4
4 1	10 55.85	+22 27.7	1.900	2.760	12.7	19.5
4 11	10 49.63	+21 53.5	1.979	2.758	15.5	19.7

471169 2010 JZ_{22} 3 8.8 261°.12 5°.5/29.3 17

2 1	11 37.65	+19 24.5	2.581	3.408	10.4	20.9
2 11	11 34.15	+21 16.0	2.498	3.394	8.1	20.7
2 21	11 28.90	+23 10.3	2.441	3.380	6.2	20.6
3 2	11 22.35	+24 59.6	2.415	3.366	5.6	20.5
3 12	11 15.15	+26 36.3	2.418	3.352	6.8	20.6
3 22	11 8.04	+27 54.2	2.449	3.338	9.0	20.7
4 1	11 1.80	+28 49.7	2.505	3.324	11.4	20.8
4 11	10 57.04	+29 22.2	2.583	3.309	13.6	20.9

320605 2008 BC_{53} 3 8.8 92°.93 1°.5/ 9.9 18

2 1	11 48.57	+ 1 11.0	1.749	2.538	16.1	20.0
2 11	11 43.01	+ 0 45.0	1.667	2.544	12.7	19.8
2 21	11 34.88	+ 0 31.1	1.608	2.549	8.6	19.6
3 2	11 24.85	+ 0 27.6	1.574	2.555	4.1	19.3
3 12	11 14.01	+ 0 31.3	1.569	2.561	1.8	19.1
3 22	11 3.54	+ 0 37.8	1.592	2.566	6.0	19.4
4 1	10 54.59	+ 0 42.8	1.643	2.572	10.3	19.7
4 11	10 47.97	+ 0 42.3	1.717	2.577	14.0	19.9

215066 2009 DX_{126} 3 8.8 253°.74 1°.4/ 9.9 18

2 1	11 43.63	− 0 28.0	1.658	2.454	16.5	20.8
2 11	11 39.51	− 0 24.6	1.568	2.448	13.1	20.6
2 21	11 32.79	− 0 4.3	1.499	2.442	8.9	20.3
3 2	11 24.06	+ 0 30.4	1.455	2.436	4.2	20.0
3 12	11 14.35	+ 1 14.3	1.438	2.430	1.7	19.8
3 22	11 4.87	+ 2 0.7	1.448	2.423	6.3	20.1
4 1	10 56.79	+ 2 42.7	1.484	2.416	10.9	20.4
4 11	10 51.03	+ 3 14.4	1.544	2.410	15.0	20.6

63869 2001 RN_{121} 3 8.8 91°.54 1°.2/ 7.9 18

2 1	11 43.17	+ 3 0.6	1.451	2.268	17.4	19.8
2 11	11 39.20	+ 3 56.4	1.386	2.282	13.3	19.6
2 21	11 32.51	+ 5 10.1	1.343	2.297	8.6	19.3
3 2	11 23.88	+ 6 34.5	1.325	2.311	3.4	19.1
3 12	11 14.49	+ 7 59.7	1.334	2.324	2.5	19.0
3 22	11 5.64	+ 9 15.8	1.370	2.338	7.5	19.4
4 1	10 58.49	+10 15.1	1.431	2.351	12.2	19.7
4 11	10 53.83	+10 53.7	1.514	2.364	16.1	19.9

459472 2013 CA_{7} 3 8.8 135°.43 2°.3/10.7 18

2 1	11 44.36	− 3 28.6	1.564	2.352	17.7	22.0
2 11	11 40.08	− 3 20.8	1.485	2.359	14.1	21.7
2 21	11 33.13	− 2 52.1	1.427	2.365	9.8	21.5
3 2	11 24.17	− 2 4.9	1.392	2.370	5.1	21.2
3 12	11 14.33	− 1 5.0	1.385	2.376	2.4	21.1
3 22	11 4.86	− 0 0.2	1.405	2.381	6.3	21.3
4 1	10 56.96	+ 1 0.9	1.451	2.385	10.9	21.6
4 11	10 51.49	+ 1 51.5	1.520	2.390	15.0	21.8

208274 2000 YR_{56} 3 8.8 54°.73 2°.0/ 7.3 18

2 1	11 43.16	+ 6 11.8	1.366	2.196	17.7	20.3
2 11	11 39.30	+ 6 54.2	1.307	2.210	13.4	20.1
2 21	11 32.61	+ 7 50.5	1.268	2.225	8.6	19.8
3 2	11 23.92	+ 8 53.4	1.254	2.240	3.6	19.6
3 12	11 14.48	+ 9 53.3	1.266	2.255	3.3	19.6
3 22	11 5.66	+10 42.0	1.304	2.271	8.1	19.9
4 1	10 58.66	+11 13.3	1.367	2.287	12.7	20.2
4 11	10 54.26	+11 24.9	1.450	2.303	16.6	20.5

65474 2003 AZ_{5} 3 8.8 216°.78 4°.2/12.3 18

2 1	11 45.93	− 7 21.8	2.082	2.829	15.2	18.2
2 11	11 40.80	− 7 57.2	1.982	2.824	12.5	18.0
2 21	11 33.41	− 8 16.6	1.904	2.819	9.3	17.8
3 2	11 24.28	− 8 19.5	1.852	2.813	6.1	17.6
3 12	11 14.27	− 8 7.3	1.828	2.807	4.2	17.4
3 22	11 4.40	− 7 43.4	1.832	2.801	5.9	17.5
4 1	10 55.67	− 7 13.0	1.865	2.795	9.2	17.7
4 11	10 48.89	− 6 41.9	1.922	2.788	12.5	17.9

274800 2008 WP_{71} 3 8.8 149°.06 0°.5/ 9.4 17

2 1	11 41.26	+ 0 40.5	2.213	3.000	13.2	21.9
2 11	11 36.92	+ 1 2.4	2.128	3.005	10.3	21.7
2 21	11 30.68	+ 1 37.0	2.066	3.009	6.8	21.5
3 2	11 23.07	+ 2 21.3	2.031	3.014	3.0	21.2
3 12	11 14.87	+ 3 10.5	2.026	3.018	1.2	21.1
3 22	11 6.92	+ 3 59.1	2.049	3.022	5.0	21.4
4 1	11 0.04	+ 4 42.2	2.101	3.025	8.7	21.6
4 11	10 54.86	+ 5 15.6	2.178	3.028	11.8	21.8

8955 1998 FR_{79} 3 8.8 0°.60 2°.9/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.92	+ 9 30.6	1.812	2.636	14.2	18.1
2 11	11 37.11	+10 21.2	1.735	2.636	10.8	17.9
2 21	11 31.02	+11 21.0	1.681	2.636	7.0	17.6
3 2	11 23.27	+12 23.4	1.653	2.636	3.5	17.4
3 12	11 14.78	+13 20.6	1.653	2.636	4.0	17.5
3 22	11 6.62	+14 6.0	1.681	2.636	7.7	17.7
4 1	10 59.78	+14 34.6	1.734	2.637	11.5	17.9
4 11	10 54.98	+14 44.6	1.809	2.637	14.9	18.1

423467 2005 SU_{177} 3 8.8 120°.91 4°.2/13.5 16

2 1	11 39.56	−11 24.3	1.992	2.733	16.0	22.1
2 11	11 35.88	−11 6.5	1.905	2.741	13.2	22.0
2 21	11 30.13	−10 25.1	1.839	2.749	9.9	21.8
3 2	11 22.88	− 9 21.2	1.798	2.757	6.5	21.6
3 12	11 14.97	− 7 59.0	1.784	2.764	4.2	21.4
3 22	11 7.33	− 6 25.7	1.799	2.771	5.6	21.5
4 1	11 0.87	− 4 49.7	1.841	2.778	8.8	21.7
4 11	10 56.26	− 3 19.3	1.909	2.785	12.1	22.0

501658 2014 SA_{333} 3 8.8 232°.70 0°.8/ 9.6 17

2 1	11 43.54	− 0 30.1	1.897	2.684	15.1	22.7
2 11	11 39.20	− 0 7.4	1.796	2.672	11.9	22.4
2 21	11 32.49	+ 0 32.1	1.718	2.660	8.0	22.2
3 2	11 23.94	+ 1 25.4	1.665	2.647	3.7	21.9
3 12	11 14.45	+ 2 27.1	1.641	2.634	1.4	21.7
3 22	11 5.08	+ 3 30.1	1.646	2.619	5.9	21.9
4 1	10 56.90	+ 4 27.4	1.679	2.605	10.3	22.2
4 11	10 50.76	+ 5 13.3	1.735	2.589	14.2	22.4

285131 1995 SA_{63} 3 8.8 273°.86 0°.2/ 8.6 16

2 1	11 39.84	+ 1 0.3	1.645	2.454	16.1	21.0
2 11	11 36.65	+ 1 46.4	1.553	2.444	12.5	20.7
2 21	11 30.95	+ 2 52.0	1.483	2.433	8.2	20.5
3 2	11 23.32	+ 4 12.4	1.438	2.423	3.4	20.1
3 12	11 14.74	+ 5 39.5	1.421	2.413	1.8	20.0
3 22	11 6.34	+ 7 4.0	1.431	2.403	6.8	20.3
4 1	10 59.26	+ 8 16.9	1.467	2.392	11.6	20.5
4 11	10 54.41	+ 9 12.1	1.526	2.382	15.7	20.8

353433 2011 QX_{56} 3 8.8 167°.55 2°.7/11.9 17

2 1	11 42.90	− 5 49.4	2.902	3.641	11.5	21.2
2 11	11 37.75	− 6 8.3	2.804	3.644	9.3	21.1
2 21	11 31.04	− 6 15.5	2.731	3.647	6.8	20.9
3 2	11 23.19	− 6 11.7	2.685	3.649	4.2	20.7
3 12	11 14.84	− 5 58.6	2.669	3.652	2.7	20.6
3 22	11 6.64	− 5 39.0	2.684	3.654	4.2	20.7
4 1	10 59.26	− 5 16.2	2.729	3.655	6.8	20.9
4 11	10 53.22	− 4 54.1	2.800	3.657	9.3	21.1

80608 2000 AB_{160} 3 8.8 161°.98 3°.2/ 6.2 18

2 1	11 47.59	+ 9 53.5	1.727	2.542	15.2	19.5
2 11	11 42.30	+10 44.4	1.652	2.548	11.6	19.2
2 21	11 34.44	+11 44.3	1.601	2.554	7.5	19.0
3 2	11 24.69	+12 45.9	1.576	2.559	3.8	18.8
3 12	11 14.15	+13 41.0	1.580	2.563	4.2	18.8
3 22	11 4.04	+14 22.5	1.612	2.566	8.1	19.1
4 1	10 55.49	+14 46.2	1.671	2.569	12.1	19.3
4 11	10 49.29	+14 50.4	1.751	2.571	15.6	19.5

211642 2003 UE_{190} 3 8.8 221°.49 0°.2/ 8.6 17

2 1	11 44.08	+ 2 40.1	1.987	2.781	14.2	21.3
2 11	11 39.46	+ 3 8.9	1.889	2.772	11.1	21.1
2 21	11 32.57	+ 3 51.3	1.815	2.762	7.3	20.8
3 2	11 23.95	+ 4 43.5	1.768	2.752	3.0	20.5
3 12	11 14.47	+ 5 39.7	1.749	2.741	1.6	20.4
3 22	11 5.16	+ 6 33.3	1.760	2.730	6.0	20.7
4 1	10 57.01	+ 7 18.4	1.799	2.717	10.2	20.9
4 11	10 50.84	+ 7 50.6	1.861	2.705	13.8	21.1

104125 2000 EC_{58} 3 8.8 191°.77 1°.9/10.6 18

2 1	11 40.45	−10 44.6	1.196	1.982	22.2	19.0
2 11	11 37.97	− 8 49.9	1.111	1.982	18.0	18.7
2 21	11 32.26	− 6 5.8	1.044	1.981	12.6	18.4
3 2	11 23.98	− 2 37.0	1.001	1.980	6.3	18.1
3 12	11 14.44	+ 1 20.0	0.986	1.978	2.1	17.8
3 22	11 5.23	+ 5 20.4	0.999	1.975	8.1	18.1
4 1	10 57.88	+ 8 59.4	1.039	1.972	14.3	18.5
4 11	10 53.52	+11 59.9	1.102	1.969	19.7	18.8

241367 2008 AH_{60} 3 8.8 175°.77 3°.3/ 3.9 17

2 1	11 38.34	+14 12.7	2.988	3.801	9.5	21.5
2 11	11 34.27	+15 23.1	2.909	3.803	7.2	21.3
2 21	11 28.77	+16 36.9	2.856	3.805	4.8	21.2
3 2	11 22.26	+17 49.1	2.834	3.806	3.3	21.1
3 12	11 15.31	+18 54.1	2.842	3.807	4.1	21.1
3 22	11 8.53	+19 47.9	2.880	3.807	6.3	21.3
4 1	11 2.52	+20 27.4	2.945	3.807	8.6	21.4
4 11	10 57.77	+20 51.5	3.035	3.807	10.8	21.6

246459 2007 VV_{251} 3 8.8 95°.52 3°.9/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.55	+15 1.0	2.473	3.291	11.0	20.6
2 11	11 36.10	+16 9.4	2.416	3.312	8.4	20.5
2 21	11 29.99	+17 20.2	2.384	3.333	5.7	20.4
3 2	11 22.74	+18 27.1	2.381	3.353	4.0	20.3
3 12	11 15.10	+19 24.1	2.408	3.373	4.8	20.4
3 22	11 7.82	+20 7.0	2.464	3.393	7.2	20.5
4 1	11 1.57	+20 33.1	2.546	3.412	9.7	20.7
4 11	10 56.87	+20 42.1	2.652	3.431	12.0	20.9

296041 2009 AC_{6} 3 8.8 308°.37 0°.1/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.05	+ 2 49.3	2.154	2.952	13.2	21.1
2 11	11 36.11	+ 3 10.7	2.066	2.950	10.2	20.9
2 21	11 30.23	+ 3 43.7	2.001	2.949	6.6	20.7
3 2	11 22.93	+ 4 24.9	1.962	2.947	2.7	20.4
3 12	11 14.99	+ 5 9.2	1.953	2.945	1.3	20.3
3 22	11 7.28	+ 5 51.4	1.973	2.944	5.3	20.6
4 1	11 0.63	+ 6 26.6	2.020	2.942	9.1	20.8
4 11	10 55.69	+ 6 51.1	2.091	2.940	12.3	21.0

361658 2007 TE_{357} 3 8.8 141°.02 3°.3/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 46.62	+11 6.3	1.845	2.660	14.3	21.3
2 11	11 41.35	+11 53.4	1.774	2.670	10.9	21.1
2 21	11 33.70	+12 47.2	1.727	2.679	7.1	20.8
3 2	11 24.36	+13 41.1	1.707	2.688	3.8	20.7
3 12	11 14.36	+14 27.5	1.716	2.696	4.3	20.7
3 22	11 4.79	+15 0.6	1.753	2.704	7.8	20.9
4 1	10 56.69	+15 16.6	1.816	2.711	11.5	21.2
4 11	10 50.78	+15 14.8	1.902	2.718	14.7	21.4

361561 2007 RH_{37} 3 8.8 130°.95 0°.0/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.65	+ 1 2.4	1.981	2.769	14.5	21.7
2 11	11 39.64	+ 1 41.4	1.907	2.785	11.2	21.5
2 21	11 32.49	+ 2 35.0	1.856	2.801	7.3	21.3
3 2	11 23.85	+ 3 38.6	1.832	2.816	3.0	21.1
3 12	11 14.61	+ 4 45.9	1.838	2.830	1.4	21.0
3 22	11 5.76	+ 5 49.9	1.873	2.844	5.6	21.3
4 1	10 58.21	+ 6 44.8	1.937	2.856	9.5	21.5
4 11	10 52.62	+ 7 26.4	2.024	2.868	12.9	21.8

465959 2011 BE_{93} 3 8.9 187°.37 4°.6/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.80	− 8 44.0	2.079	2.821	15.4	21.3
2 11	11 39.91	− 9 19.1	1.984	2.820	12.7	21.1
2 21	11 32.82	− 9 37.2	1.911	2.820	9.6	20.9
3 2	11 24.06	− 9 37.4	1.862	2.819	6.4	20.7
3 12	11 14.48	− 9 21.3	1.842	2.819	4.6	20.6
3 22	11 5.09	− 8 52.6	1.850	2.818	6.0	20.7
4 1	10 56.85	− 8 16.4	1.886	2.816	9.1	20.8
4 11	10 50.53	− 7 39.2	1.947	2.815	12.3	21.0

251275 2006 WL_{53} 3 8.9 108°.74 3°.3/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.32	+ 8 47.1	1.883	2.702	13.9	19.9
2 11	11 37.23	+10 17.6	1.819	2.718	10.5	19.7
2 21	11 30.99	+11 58.3	1.779	2.733	6.7	19.5
3 2	11 23.24	+13 41.0	1.767	2.748	3.6	19.4
3 12	11 14.90	+15 16.2	1.784	2.763	4.4	19.5
3 22	11 6.96	+16 36.0	1.830	2.777	7.9	19.7
4 1	11 0.33	+17 35.3	1.902	2.791	11.4	19.9
4 11	10 55.67	+18 12.1	1.997	2.804	14.4	20.2

89624 2001 XR_{197} 3 8.9 162°.09 4°.6/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.99	+17 51.8	2.733	3.555	10.0	19.7
2 11	11 34.19	+19 24.1	2.662	3.558	7.7	19.5
2 21	11 28.81	+20 58.3	2.618	3.561	5.6	19.4
3 2	11 22.31	+22 27.7	2.604	3.564	4.6	19.3
3 12	11 15.32	+23 45.9	2.620	3.567	5.7	19.4
3 22	11 8.52	+24 48.2	2.664	3.569	7.8	19.5
4 1	11 2.58	+25 31.6	2.735	3.571	10.0	19.7
4 11	10 58.04	+25 55.6	2.828	3.573	12.1	19.9

121303 1999 RB_{205} 3 8.9 208°.17 4°.9/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.51	−12 53.1	2.532	3.241	13.7	20.4
2 11	11 37.84	−13 15.7	2.426	3.236	11.5	20.2
2 21	11 31.32	−13 21.0	2.341	3.230	9.0	20.0
3 2	11 23.41	−13 8.1	2.282	3.223	6.6	19.8
3 12	11 14.79	−12 38.3	2.250	3.216	5.0	19.7
3 22	11 6.27	−11 54.9	2.248	3.208	5.7	19.7
4 1	10 58.64	−11 2.8	2.274	3.200	8.0	19.9
4 11	10 52.57	−10 7.9	2.326	3.191	10.7	20.0

323418 2004 EH_{6} 3 8.9 335°.11 1°.8/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.63	− 4 56.7	1.560	2.356	17.4	21.0
2 11	11 34.26	− 4 10.2	1.472	2.351	13.9	20.8
2 21	11 29.43	− 2 57.5	1.405	2.346	9.6	20.5
3 2	11 22.72	− 1 22.0	1.362	2.342	4.8	20.2
3 12	11 15.11	+ 0 28.4	1.346	2.337	1.9	20.0
3 22	11 7.74	+ 2 22.7	1.356	2.334	6.3	20.3
4 1	11 1.73	+ 4 9.5	1.393	2.331	11.0	20.5
4 11	10 57.94	+ 5 39.8	1.453	2.328	15.3	20.8

246329 2007 TT_{228} 3 8.9 107°.52 3°.2/12.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 38.23	− 8 21.0	2.304	3.054	13.8	21.1
2 11	11 34.61	− 8 9.7	2.213	3.058	11.2	20.9
2 21	11 29.20	− 7 40.3	2.144	3.062	8.2	20.8
3 2	11 22.50	− 6 54.1	2.101	3.066	5.1	20.6
3 12	11 15.23	− 5 54.6	2.086	3.069	3.2	20.4
3 22	11 8.16	− 4 47.2	2.100	3.073	4.8	20.6
4 1	11 2.07	− 3 37.9	2.142	3.077	7.9	20.8
4 11	10 57.54	− 2 33.1	2.209	3.080	10.9	20.9

493514 2015 CV_{15} 3 8.9 127°.27 1°.3/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.44	− 1 39.3	2.181	2.959	13.7	21.7
2 11	11 37.09	− 1 23.6	2.098	2.968	10.7	21.5
2 21	11 30.81	− 0 53.7	2.038	2.976	7.3	21.3
3 2	11 23.17	− 0 12.0	2.004	2.984	3.5	21.1
3 12	11 14.94	+ 0 36.8	2.000	2.992	1.5	21.0
3 22	11 6.99	+ 1 27.4	2.025	2.999	4.9	21.2
4 1	11 0.13	+ 2 14.5	2.078	3.006	8.5	21.5
4 11	10 54.99	+ 2 53.3	2.156	3.013	11.7	21.7

316827 1999 XL_{225} 3 8.9 213°.25 2°.7/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.60	+ 8 0.4	1.789	2.601	14.8	21.4
2 11	11 40.89	+ 8 57.9	1.699	2.594	11.4	21.1
2 21	11 33.65	+10 7.4	1.633	2.586	7.3	20.9
3 2	11 24.46	+11 22.4	1.594	2.577	3.4	20.6
3 12	11 14.32	+12 34.0	1.583	2.568	3.8	20.6
3 22	11 4.40	+13 34.4	1.601	2.557	7.9	20.8
4 1	10 55.85	+14 17.4	1.645	2.546	12.1	21.0
4 11	10 49.53	+14 40.1	1.712	2.534	15.8	21.2

378856 2008 TC_{61} 3 8.9 190°.41 3°.4/ 4.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.64	+13 28.9	2.603	3.415	10.7	21.6
2 11	11 37.01	+14 29.6	2.520	3.414	8.2	21.4
2 21	11 30.67	+15 34.6	2.462	3.412	5.5	21.3
3 2	11 23.09	+16 38.3	2.434	3.409	3.5	21.1
3 12	11 14.98	+17 34.9	2.435	3.406	4.2	21.2
3 22	11 7.06	+18 19.6	2.466	3.402	6.8	21.3
4 1	11 0.07	+18 49.3	2.525	3.398	9.5	21.5
4 11	10 54.59	+19 2.7	2.607	3.393	12.0	21.7

459063 2012 BB_{22} 3 8.9 16°.22 4°.4/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.84	− 6 52.6	1.499	2.281	18.7	21.1
2 11	11 38.35	− 7 15.3	1.419	2.283	15.2	20.9
2 21	11 32.14	− 7 15.5	1.357	2.284	11.2	20.6
3 2	11 23.85	− 6 53.1	1.318	2.287	6.9	20.4
3 12	11 14.60	− 6 11.7	1.305	2.289	4.4	20.3
3 22	11 5.67	− 5 17.7	1.317	2.292	6.8	20.4
4 1	10 58.28	− 4 19.9	1.355	2.296	11.0	20.6
4 11	10 53.36	− 3 26.7	1.415	2.300	15.0	20.9

31472 1999 CT_{36} 3 8.9 116°.25 4°.1/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 46.77	+11 35.2	1.698	2.519	15.1	18.6
2 11	11 41.57	+12 45.7	1.639	2.538	11.5	18.4
2 21	11 33.88	+14 3.3	1.603	2.556	7.5	18.2
3 2	11 24.44	+15 19.6	1.594	2.573	4.3	18.1
3 12	11 14.40	+16 25.3	1.614	2.590	5.2	18.1
3 22	11 4.91	+17 13.7	1.661	2.606	8.7	18.4
4 1	10 57.05	+17 40.8	1.734	2.622	12.3	18.6
4 11	10 51.51	+17 46.4	1.829	2.637	15.5	18.9

471952 2013 RF_{94} 3 8.9 315°.96 3°.7/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.27	− 9 25.8	1.723	2.493	17.1	20.2
2 11	11 33.84	− 9 0.7	1.625	2.482	14.0	19.9
2 21	11 29.11	− 8 8.9	1.547	2.471	10.3	19.7
3 2	11 22.60	− 6 51.2	1.493	2.461	6.4	19.4
3 12	11 15.19	− 5 13.0	1.465	2.451	3.7	19.2
3 22	11 7.94	− 3 22.8	1.464	2.441	5.9	19.3
4 1	11 1.90	− 1 31.2	1.491	2.432	10.1	19.5
4 11	10 57.90	+ 0 11.4	1.541	2.424	14.1	19.8

154654 2004 EG_{85} 3 8.9 14°.64 3°.8/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.88	+12 22.8	1.567	2.396	15.8	19.8
2 11	11 41.27	+12 51.6	1.494	2.396	12.1	19.6
2 21	11 33.91	+13 26.2	1.443	2.398	8.0	19.4
3 2	11 24.54	+13 59.6	1.418	2.399	4.3	19.1
3 12	11 14.34	+14 24.1	1.419	2.401	4.8	19.2
3 22	11 4.60	+14 34.1	1.448	2.403	8.7	19.4
4 1	10 56.53	+14 26.2	1.501	2.405	12.8	19.6
4 11	10 50.97	+14 0.3	1.575	2.408	16.5	19.9

28023 1998 BF_{11} 3 8.9 89°.79 4°.6/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.78	+15 48.4	2.230	3.055	11.8	18.6
2 11	11 35.81	+17 3.6	2.165	3.065	9.0	18.4
2 21	11 29.97	+18 21.5	2.127	3.075	6.2	18.3
3 2	11 22.82	+19 35.2	2.116	3.085	4.6	18.2
3 12	11 15.16	+20 37.5	2.134	3.095	5.6	18.2
3 22	11 7.84	+21 23.3	2.180	3.105	8.1	18.4
4 1	11 1.62	+21 49.7	2.251	3.115	10.9	18.6
4 11	10 57.10	+21 56.6	2.345	3.125	13.3	18.8

429102 2009 SZ_{45} 3 8.9 172°.28 3°.2/ 5.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 45.61	+13 54.1	2.629	3.433	10.9	21.2
2 11	11 39.95	+14 35.4	2.548	3.437	8.3	21.0
2 21	11 32.53	+15 19.6	2.493	3.441	5.5	20.8
3 2	11 23.86	+16 1.6	2.468	3.444	3.4	20.7
3 12	11 14.69	+16 36.4	2.473	3.446	3.9	20.7
3 22	11 5.79	+17 0.1	2.508	3.448	6.5	20.9
4 1	10 57.90	+17 10.2	2.572	3.448	9.2	21.1
4 11	10 51.60	+17 6.2	2.660	3.448	11.7	21.2

508590 2017 OW_{56} 3 8.9 224°.55 1°.1/ 7.6 17

2 1	11 41.74	+ 4 44.6	2.512	3.304	11.7	23.3
2 11	11 37.24	+ 5 32.3	2.408	3.291	9.0	23.1
2 21	11 30.94	+ 6 30.7	2.329	3.277	5.8	22.9
3 2	11 23.28	+ 7 35.8	2.278	3.263	2.3	22.6
3 12	11 14.94	+ 8 42.1	2.258	3.248	2.0	22.6
3 22	11 6.71	+ 9 43.9	2.269	3.232	5.5	22.8
4 1	10 59.34	+10 36.3	2.309	3.215	8.9	23.0
4 11	10 53.50	+11 15.7	2.373	3.197	11.9	23.1

224398 2005 UP_{260} 3 8.9 228°.78 5°.1/ 3.7 17

2 1	11 44.37	+17 9.2	2.075	2.897	12.7	20.5
2 11	11 39.63	+18 10.3	1.992	2.889	9.8	20.3
2 21	11 32.64	+19 13.9	1.934	2.881	7.0	20.1
3 2	11 24.01	+20 12.7	1.903	2.872	5.2	20.0
3 12	11 14.62	+20 59.2	1.901	2.862	6.2	20.1
3 22	11 5.49	+21 27.9	1.926	2.853	9.0	20.2
4 1	10 57.60	+21 35.8	1.977	2.843	12.1	20.4
4 11	10 51.68	+21 23.2	2.050	2.832	14.9	20.6

323814 2005 SW 3 8.9 188°.77 3°.4/ 5.6 16

2 1	11 48.51	+14 29.8	2.372	3.175	11.9	22.1
2 11	11 42.39	+15 0.1	2.286	3.175	9.1	21.9
2 21	11 34.23	+15 32.7	2.226	3.173	6.1	21.7
3 2	11 24.61	+16 2.5	2.195	3.171	3.7	21.6
3 12	11 14.37	+16 23.9	2.194	3.168	4.2	21.6
3 22	11 4.43	+16 33.3	2.223	3.165	7.0	21.8
4 1	10 55.66	+16 28.4	2.280	3.160	10.1	21.9
4 11	10 48.71	+16 9.0	2.361	3.156	12.8	22.1

49700 Mather 3 8.9 270°.29 0°.9/ 8.3 18

2 1	11 45.38	+ 4 29.9	1.379	2.199	18.0	18.7
2 11	11 41.40	+ 4 47.5	1.295	2.193	14.0	18.5
2 21	11 34.34	+ 5 20.6	1.233	2.186	9.2	18.2
3 2	11 24.87	+ 6 4.4	1.194	2.179	3.7	17.8
3 12	11 14.21	+ 6 50.9	1.181	2.172	2.3	17.7
3 22	11 3.85	+ 7 31.8	1.194	2.165	7.9	18.0
4 1	10 55.24	+ 8 0.1	1.232	2.158	13.2	18.3
4 11	10 49.41	+ 8 11.4	1.290	2.152	17.7	18.5

286398 2001 YN_{53} 3 8.9 74°.21 1°.2/ 7.9 18

2 1	11 45.38	+ 4 52.5	1.402	2.222	17.8	20.7
2 11	11 40.99	+ 5 23.2	1.339	2.237	13.6	20.5
2 21	11 33.75	+ 6 8.6	1.298	2.252	8.7	20.2
3 2	11 24.48	+ 7 2.2	1.281	2.267	3.5	20.0
3 12	11 14.45	+ 7 55.6	1.291	2.281	2.6	19.9
3 22	11 5.02	+ 8 40.7	1.327	2.296	7.6	20.3
4 1	10 57.42	+ 9 11.5	1.388	2.311	12.3	20.6
4 11	10 52.45	+ 9 24.7	1.471	2.326	16.2	20.8

211176 2002 JN_{48} 3 8.9 295°.42 1°.2/ 7.9 17

2 1	11 42.55	+ 5 0.5	1.499	2.321	16.8	20.7
2 11	11 39.12	+ 5 24.5	1.404	2.303	13.0	20.4
2 21	11 32.85	+ 6 3.7	1.330	2.284	8.5	20.1
3 2	11 24.27	+ 6 53.0	1.280	2.266	3.5	19.7
3 12	11 14.48	+ 7 45.0	1.257	2.248	2.5	19.6
3 22	11 4.80	+ 8 31.4	1.260	2.230	7.8	19.9
4 1	10 56.60	+ 9 4.8	1.287	2.212	12.9	20.1
4 11	10 50.92	+ 9 20.6	1.336	2.195	17.4	20.3

57753 2001 VL_{12} 3 8.9 73°.94 1°.0/ 7.9 18

2 1	11 42.07	+ 6 24.4	2.289	3.091	12.4	19.6
2 11	11 37.47	+ 6 39.2	2.210	3.098	9.4	19.4
2 21	11 31.03	+ 7 1.7	2.155	3.105	6.1	19.2
3 2	11 23.28	+ 7 28.3	2.127	3.112	2.5	19.0
3 12	11 15.02	+ 7 54.4	2.129	3.119	1.8	18.9
3 22	11 7.04	+ 8 15.9	2.160	3.126	5.4	19.2
4 1	11 0.14	+ 8 29.4	2.219	3.133	8.8	19.4
4 11	10 54.90	+ 8 32.6	2.302	3.140	11.7	19.6

436021 2009 HV_{55} 3 8.9 329°.58 9°.6/22.2 17

2 1	11 35.86	−29 22.7	2.286	2.897	17.3	21.1
2 11	11 33.19	−29 42.5	2.180	2.889	15.7	21.0
2 21	11 28.53	−29 33.5	2.090	2.882	13.9	20.8
3 2	11 22.34	−28 52.0	2.019	2.875	11.9	20.6
3 12	11 15.42	−27 37.4	1.971	2.868	10.3	20.5
3 22	11 8.65	−25 52.9	1.947	2.861	9.6	20.5
4 1	11 2.92	−23 45.3	1.950	2.855	10.3	20.5
4 11	10 58.96	−21 24.8	1.977	2.849	12.0	20.6

41017 1999 UJ_{26} 3 8.9 243°.52 2°.5/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.17	− 5 4.1	2.090	2.858	14.5	19.4
2 11	11 36.36	− 4 56.8	1.993	2.853	11.6	19.2
2 21	11 30.52	− 4 32.2	1.919	2.849	8.3	19.0
3 2	11 23.16	− 3 51.7	1.870	2.844	4.7	18.7
3 12	11 15.06	− 2 59.2	1.850	2.838	2.5	18.6
3 22	11 7.13	− 2 0.4	1.858	2.833	5.1	18.7
4 1	11 0.26	− 1 1.5	1.894	2.828	8.8	18.9
4 11	10 55.16	− 0 8.7	1.954	2.822	12.2	19.1

432430 2010 BH_{51} 3 8.9 159°.67 7°.3/27.3 17

2 1	11 40.48	+26 37.3	2.459	3.281	11.0	20.8
2 11	11 36.39	+28 23.0	2.402	3.285	9.0	20.7
2 21	11 30.40	+30 4.2	2.370	3.287	7.6	20.6
3 2	11 23.05	+31 32.8	2.367	3.290	7.4	20.6
3 12	11 15.13	+32 41.8	2.391	3.292	8.6	20.7
3 22	11 7.47	+33 26.9	2.442	3.295	10.4	20.8
4 1	11 0.89	+33 46.8	2.515	3.297	12.4	20.9
4 11	10 56.01	+33 43.0	2.607	3.298	14.2	21.1

169173 2001 QU_{233} 3 8.9 109°.25 0°.1/ 8.9 17

2 1	11 42.34	+ 2 57.5	2.440	3.227	12.1	20.4
2 11	11 37.54	+ 3 7.9	2.360	3.238	9.3	20.2
2 21	11 31.01	+ 3 27.6	2.305	3.250	6.1	20.0
3 2	11 23.26	+ 3 53.8	2.277	3.261	2.6	19.8
3 12	11 15.04	+ 4 22.6	2.280	3.272	1.1	19.7
3 22	11 7.10	+ 4 49.8	2.312	3.283	4.7	20.0
4 1	11 0.18	+ 5 11.8	2.373	3.293	8.0	20.2
4 11	10 54.82	+ 5 25.8	2.459	3.303	10.9	20.4

78513 2002 RL_{87} 3 8.9 221°.44 0°.8/ 8.0 18

2 1	11 40.68	+ 4 51.0	2.338	3.137	12.2	19.4
2 11	11 36.49	+ 5 20.3	2.246	3.132	9.4	19.2
2 21	11 30.46	+ 5 59.4	2.178	3.127	6.1	18.9
3 2	11 23.09	+ 6 44.5	2.137	3.122	2.4	18.7
3 12	11 15.10	+ 7 30.7	2.127	3.117	1.7	18.6
3 22	11 7.31	+ 8 12.8	2.145	3.112	5.4	18.9
4 1	11 0.48	+ 8 46.5	2.192	3.106	8.9	19.1
4 11	10 55.26	+ 9 8.7	2.263	3.101	11.9	19.3

293055 2006 WG_{128} 3 8.9 110°.86 1°.0/ 7.9 18

2 1	11 43.64	+ 4 56.0	1.814	2.621	14.9	21.2
2 11	11 39.15	+ 5 25.8	1.739	2.630	11.4	21.0
2 21	11 32.35	+ 6 7.5	1.686	2.638	7.3	20.8
3 2	11 23.90	+ 6 56.1	1.660	2.646	3.0	20.5
3 12	11 14.76	+ 7 45.0	1.663	2.653	2.1	20.5
3 22	11 6.00	+ 8 27.9	1.694	2.661	6.4	20.8
4 1	10 58.62	+ 8 59.7	1.751	2.668	10.5	21.0
4 11	10 53.33	+ 9 17.1	1.831	2.676	14.0	21.2

509011 2005 LU_{39} 3 8.9 200°.51 9°.3/22.2 18

2 1	11 43.28	+37 34.7	2.677	3.473	10.9	21.5
2 11	11 38.64	+39 23.7	2.630	3.470	9.8	21.4
2 21	11 31.93	+41 1.4	2.608	3.467	9.3	21.4
3 2	11 23.71	+42 19.9	2.611	3.464	9.6	21.4
3 12	11 14.84	+43 13.3	2.640	3.460	10.6	21.5
3 22	11 6.25	+43 38.9	2.691	3.456	12.0	21.6
4 1	10 58.84	+43 36.9	2.762	3.452	13.5	21.7
4 11	10 53.28	+43 10.1	2.850	3.447	14.8	21.8

77905 2001 TR_{147} 3 8.9 17°.87 0°.5/ 8.2 18

2 1	11 34.99	+ 3 22.5	2.641	3.440	11.0	18.8
2 11	11 31.90	+ 4 4.1	2.558	3.444	8.4	18.6
2 21	11 27.35	+ 4 55.6	2.499	3.448	5.4	18.4
3 2	11 21.76	+ 5 53.4	2.468	3.453	2.1	18.2
3 12	11 15.74	+ 6 52.7	2.467	3.458	1.4	18.1
3 22	11 9.91	+ 7 48.5	2.495	3.463	4.6	18.4
4 1	11 4.88	+ 8 36.7	2.551	3.468	7.7	18.6
4 11	11 1.15	+ 9 14.1	2.633	3.474	10.3	18.8

495368 2014 OQ_{194} 3 8.9 153°.23 1°.0/ 7.8 18

2 1	11 44.06	+ 4 29.9	2.063	2.861	13.7	22.6
2 11	11 39.22	+ 5 13.2	1.983	2.869	10.5	22.4
2 21	11 32.28	+ 6 8.1	1.928	2.877	6.7	22.2
3 2	11 23.85	+ 7 9.8	1.900	2.885	2.7	22.0
3 12	11 14.80	+ 8 11.7	1.901	2.891	2.1	21.9
3 22	11 6.06	+ 9 7.6	1.932	2.897	6.0	22.2
4 1	10 58.53	+ 9 52.3	1.991	2.903	9.8	22.4
4 11	10 52.88	+10 22.5	2.074	2.907	13.0	22.7

502465 2015 BM_{313} 3 8.9 286°.58 1°.5/ 7.3 17

2 1	11 39.56	+ 5 37.5	1.958	2.771	13.7	21.2
2 11	11 36.00	+ 6 24.5	1.871	2.766	10.5	20.9
2 21	11 30.33	+ 7 23.6	1.807	2.761	6.7	20.7
3 2	11 23.09	+ 8 29.7	1.770	2.756	2.8	20.4
3 12	11 15.13	+ 9 35.7	1.762	2.751	2.6	20.4
3 22	11 7.39	+10 34.7	1.782	2.746	6.5	20.6
4 1	11 0.79	+11 20.9	1.828	2.741	10.4	20.9
4 11	10 56.06	+11 50.9	1.898	2.736	13.8	21.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
208211 2000 SV_{82}			3 8.9 201°.74	0°.9/ 7.9 17		
	h m	° ′			°	m
2 1	11 44.22	+ 3 53.0	2.069	2.864	13.7	22.0
2 11	11 39.48	+ 4 38.4	1.975	2.860	10.6	21.7
2 21	11 32.57	+ 5 36.9	1.905	2.854	6.8	21.5
3 2	11 24.02	+ 6 43.8	1.863	2.848	2.8	21.2
3 12	11 14.70	+ 7 52.5	1.851	2.841	2.0	21.1
3 22	11 5.57	+ 8 56.2	1.868	2.833	6.2	21.4
4 1	10 57.58	+ 9 48.9	1.913	2.825	10.1	21.6
4 11	10 51.48	+10 26.7	1.982	2.815	13.5	21.8
334454 2002 NK_{69}			3 8.9 220°.07	5°.2/ 2.0 17		
2 1	11 40.08	+17 58.0	2.376	3.201	11.2	21.0
2 11	11 36.12	+19 27.3	2.297	3.194	8.7	20.8
2 21	11 30.27	+20 59.4	2.244	3.188	6.3	20.7
3 2	11 23.03	+22 26.7	2.220	3.181	5.2	20.6
3 12	11 15.17	+23 41.7	2.224	3.173	6.3	20.6
3 22	11 7.49	+24 38.8	2.257	3.166	8.8	20.8
4 1	11 0.81	+25 14.6	2.315	3.158	11.4	20.9
4 11	10 55.77	+25 28.8	2.394	3.149	13.8	21.1
313789 2003 YE_{97}			3 8.9 80°.70	0°.0/ 8.6 18		
2 1	11 42.27	+ 1 14.5	1.602	2.409	16.5	20.8
2 11	11 38.36	+ 1 50.0	1.532	2.421	12.8	20.6
2 21	11 31.95	+ 2 42.8	1.483	2.433	8.4	20.4
3 2	11 23.77	+ 3 47.7	1.460	2.444	3.5	20.1
3 12	11 14.86	+ 4 57.1	1.464	2.456	1.6	20.0
3 22	11 6.39	+ 6 2.7	1.495	2.468	6.5	20.3
4 1	10 59.43	+ 6 57.2	1.553	2.480	10.9	20.6
4 11	10 54.74	+ 7 35.9	1.633	2.491	14.7	20.9
248292 2005 KV_{11}			3 8.9 246°.63	2°.2/ 6.2 17		
2 1	11 40.53	+ 9 48.9	2.670	3.475	10.7	21.3
2 11	11 36.23	+10 30.2	2.568	3.460	8.1	21.1
2 21	11 30.24	+11 17.8	2.493	3.444	5.3	20.9
3 2	11 23.01	+12 7.5	2.446	3.428	2.6	20.7
3 12	11 15.18	+12 54.2	2.429	3.411	2.9	20.7
3 22	11 7.45	+13 33.3	2.441	3.394	5.8	20.9
4 1	11 0.54	+14 1.3	2.482	3.377	8.8	21.0
4 11	10 55.06	+14 16.0	2.548	3.359	11.6	21.2
460388 2014 SS_{64}			3 8.9 125°.00	1°.9/ 7.1 18		
2 1	11 45.81	+ 7 18.2	1.928	2.734	14.2	22.1
2 11	11 40.61	+ 8 0.8	1.859	2.750	10.8	21.9
2 21	11 33.19	+ 8 52.8	1.813	2.765	6.9	21.7
3 2	11 24.22	+ 9 48.5	1.795	2.780	3.0	21.5
3 12	11 14.67	+10 40.9	1.807	2.794	2.9	21.5
3 22	11 5.55	+11 24.2	1.847	2.807	6.7	21.8
4 1	10 57.80	+11 53.9	1.914	2.820	10.4	22.0
4 11	10 52.11	+12 8.0	2.005	2.832	13.6	22.3
246248 2007 TX			3 8.9 64°.78	2°.3/ 6.7 18		
2 1	11 42.99	+10 13.5	2.149	2.961	12.7	19.9
2 11	11 38.31	+10 37.5	2.073	2.967	9.6	19.7
2 21	11 31.64	+11 7.0	2.021	2.973	6.2	19.5
3 2	11 23.57	+11 37.5	1.996	2.979	3.0	19.3
3 12	11 14.95	+12 3.6	2.001	2.986	3.1	19.3
3 22	11 6.66	+12 20.9	2.034	2.992	6.4	19.5
4 1	10 59.55	+12 26.4	2.095	2.998	9.8	19.7
4 11	10 54.24	+12 18.9	2.179	3.005	12.7	19.9
207786 2007 TO_{130}			3 8.9 167°.82	1°.4/ 7.4 18		
2 1	11 42.76	+ 7 45.0	2.486	3.286	11.6	20.7
2 11	11 37.90	+ 8 6.3	2.401	3.288	8.8	20.5
2 21	11 31.28	+ 8 34.2	2.340	3.290	5.7	20.3
3 2	11 23.42	+ 9 4.9	2.308	3.292	2.4	20.1
3 12	11 15.02	+ 9 33.9	2.305	3.294	2.2	20.1
3 22	11 6.86	+ 9 57.3	2.333	3.295	5.4	20.3
4 1	10 59.69	+10 11.9	2.389	3.296	8.6	20.5
4 11	10 54.08	+10 15.7	2.470	3.297	11.4	20.7
32576 2001 QK_{79}			3 8.9 121°.76	1°.9/ 6.9 18		
2 1	11 42.34	+ 9 27.4	2.331	3.139	12.0	19.1
2 11	11 37.69	+ 9 50.8	2.249	3.141	9.1	19.0
2 21	11 31.20	+10 20.1	2.192	3.143	5.9	18.8
3 2	11 23.39	+10 50.9	2.162	3.145	2.7	18.5
3 12	11 15.03	+11 18.4	2.162	3.147	2.7	18.6
3 22	11 6.95	+11 38.4	2.191	3.149	5.9	18.8
4 1	10 59.91	+11 48.0	2.247	3.151	9.2	19.0
4 11	10 54.53	+11 45.3	2.328	3.153	12.1	19.2
194579 2001 XX_{101}			3 8.9 98°.40	2°.6/10.9 18		
2 1	11 45.63	− 3 15.7	1.545	2.332	18.0	19.8
2 11	11 41.08	− 3 22.1	1.471	2.343	14.3	19.6
2 21	11 33.83	− 3 9.0	1.417	2.354	10.0	19.4
3 2	11 24.59	− 2 38.0	1.387	2.364	5.3	19.1
3 12	11 14.50	− 1 54.4	1.384	2.374	2.7	19.0
3 22	11 4.85	− 1 5.0	1.408	2.384	6.3	19.2
4 1	10 56.83	− 0 17.4	1.458	2.394	10.8	19.5
4 11	10 51.28	+ 0 21.7	1.531	2.403	14.8	19.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
170923 2004 YA_{12}			3 8.9 232°.18	10°.3/24.2 17		
	h m	° ′			°	m
2 1	11 45.85	+30 26.3	1.981	2.801	13.3	20.3
2 11	11 41.34	+32 50.1	1.915	2.787	11.4	20.1
2 21	11 34.12	+35 8.3	1.874	2.773	10.4	20.0
3 2	11 24.78	+37 8.4	1.860	2.758	10.6	20.0
3 12	11 14.37	+38 39.6	1.872	2.742	12.1	20.1
3 22	11 4.14	+39 35.6	1.908	2.726	14.3	20.2
4 1	10 55.35	+39 55.2	1.964	2.708	16.6	20.3
4 11	10 48.95	+39 41.8	2.036	2.690	18.7	20.4
423207 2004 RA_{8}			3 8.9 188°.07	4°.6/13.9 17		
2 1	11 43.49	−12 12.3	2.579	3.289	13.5	22.2
2 11	11 38.55	−12 33.1	2.476	3.288	11.3	22.1
2 21	11 31.79	−12 37.1	2.396	3.287	8.8	21.9
3 2	11 23.67	−12 23.8	2.341	3.285	6.2	21.7
3 12	11 14.90	−11 54.6	2.314	3.282	4.7	21.6
3 22	11 6.25	−11 12.8	2.318	3.279	5.4	21.6
4 1	10 58.51	−10 23.2	2.350	3.275	7.8	21.8
4 11	10 52.31	− 9 31.5	2.408	3.271	10.4	21.9
371673 2007 DY_{10}			3 8.9 344°.10	0°.5/ 8.3 18		
2 1	11 36.28	+ 0 1.1	1.652	2.463	15.9	20.2
2 11	11 33.86	+ 1 15.8	1.567	2.460	12.3	20.0
2 21	11 29.13	+ 2 52.5	1.505	2.456	8.0	19.7
3 2	11 22.65	+ 4 45.3	1.468	2.453	3.2	19.4
3 12	11 15.37	+ 6 44.0	1.459	2.451	2.0	19.3
3 22	11 8.33	+ 8 37.8	1.478	2.449	6.8	19.6
4 1	11 2.57	+10 16.6	1.524	2.447	11.4	19.9
4 11	10 58.88	+11 33.8	1.592	2.445	15.3	20.1
369875 2012 KV_{48}			3 8.9 108°.80	1°.4/ 7.5 18		
2 1	11 41.00	+ 5 10.5	1.958	2.767	13.9	20.7
2 11	11 37.00	+ 5 57.3	1.882	2.774	10.6	20.5
2 21	11 30.90	+ 6 55.8	1.829	2.781	6.8	20.2
3 2	11 23.31	+ 8 0.8	1.803	2.789	2.8	20.0
3 12	11 15.10	+ 9 5.2	1.806	2.796	2.4	20.0
3 22	11 7.21	+10 2.5	1.838	2.802	6.3	20.2
4 1	11 0.53	+10 47.3	1.896	2.809	10.1	20.5
4 11	10 55.74	+11 16.4	1.978	2.816	13.4	20.7
24981 Shigekimurakami			3 8.9 260°.26	3°.9/11.8 18		
2 1	11 43.54	− 6 25.6	1.537	2.315	18.4	19.4
2 11	11 39.90	− 6 33.6	1.437	2.301	15.1	19.1
2 21	11 33.40	− 6 18.4	1.356	2.285	11.0	18.8
3 2	11 24.57	− 5 39.7	1.298	2.270	6.6	18.5
3 12	11 14.45	− 4 41.2	1.266	2.254	3.9	18.3
3 22	11 4.38	− 3 30.0	1.261	2.237	6.9	18.5
4 1	10 55.73	− 2 15.7	1.282	2.220	11.6	18.7
4 11	10 49.59	− 1 8.0	1.324	2.203	16.2	18.9
48242 2001 PB_{1}			3 8.9 95°.84	2°.5/11.4 18		
2 1	11 41.98	− 4 29.1	2.292	3.054	13.6	17.8
2 11	11 37.45	− 4 37.4	2.209	3.064	10.8	17.6
2 21	11 31.06	− 4 31.3	2.147	3.074	7.7	17.4
3 2	11 23.35	− 4 12.2	2.113	3.084	4.4	17.3
3 12	11 15.09	− 3 43.1	2.107	3.094	2.5	17.1
3 22	11 7.08	− 3 8.2	2.130	3.104	4.7	17.3
4 1	11 0.12	− 2 32.4	2.182	3.113	7.9	17.5
4 11	10 54.82	− 2 0.3	2.259	3.123	11.0	17.7
159631 2002 CA_{13}			3 8.9 349°.02	1°.9/ 7.9 18		
2 1	11 49.67	+10 32.8	1.453	2.277	17.1	18.5
2 11	11 44.54	+10 5.2	1.371	2.269	13.3	18.2
2 21	11 36.30	+ 9 41.4	1.309	2.263	8.7	18.0
3 2	11 25.69	+ 9 17.2	1.273	2.258	3.7	17.6
3 12	11 14.01	+ 8 48.2	1.263	2.253	2.9	17.6
3 22	11 2.75	+ 8 11.2	1.281	2.250	7.9	17.9
4 1	10 53.32	+ 7 24.5	1.324	2.247	12.7	18.1
4 11	10 46.72	+ 6 28.0	1.389	2.246	16.9	18.4
457076 2008 EP_{77}			3 8.9 348°.60	1°.2/ 7.8 17		
2 1	11 36.15	+ 2 19.8	1.392	2.222	17.4	21.0
2 11	11 34.18	+ 3 21.0	1.313	2.217	13.4	20.7
2 21	11 29.55	+ 4 43.8	1.255	2.212	8.6	20.4
3 2	11 22.88	+ 6 21.5	1.221	2.207	3.4	20.1
3 12	11 15.27	+ 8 3.3	1.213	2.204	2.6	20.0
3 22	11 7.95	+ 9 37.7	1.231	2.202	7.9	20.3
4 1	11 2.15	+10 54.6	1.273	2.200	12.8	20.6
4 11	10 58.76	+11 48.0	1.336	2.199	17.1	20.8
371758 2007 FQ_{40}			3 8.9 245°.53	0°.1/ 8.8 17		
2 1	11 41.70	+ 2 30.2	2.005	2.803	14.0	21.4
2 11	11 37.64	+ 2 55.1	1.911	2.795	10.9	21.2
2 21	11 31.42	+ 3 33.3	1.840	2.787	7.1	21.0
3 2	11 23.58	+ 4 21.0	1.795	2.779	3.0	20.7
3 12	11 14.96	+ 5 12.8	1.779	2.771	1.4	20.6
3 22	11 6.52	+ 6 2.5	1.791	2.762	5.8	20.8
4 1	10 59.20	+ 6 44.4	1.831	2.753	9.8	21.1
4 11	10 53.77	+ 7 14.3	1.895	2.744	13.4	21.3

239850 1999 VZ_{89} 3 8.9 258°.61 6°.0/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 46.72	+26 35.3	2.959	3.761	9.8	20.6
2 11	11 40.90	+27 24.1	2.864	3.738	8.0	20.4
2 21	11 33.25	+28 8.7	2.796	3.714	6.5	20.3
3 2	11 24.27	+28 43.2	2.756	3.690	6.0	20.2
3 12	11 14.66	+29 2.5	2.745	3.665	6.8	20.2
3 22	11 5.22	+29 3.6	2.763	3.639	8.6	20.3
4 1	10 56.71	+28 45.3	2.806	3.613	10.6	20.4
4 11	10 49.76	+28 8.7	2.873	3.586	12.6	20.5

376251 2011 EF_{84} 3 8.9 88°.36 0°.9/ 7.9 17

2 1	11 39.84	+ 3 37.1	1.918	2.726	14.2	21.2
2 11	11 36.18	+ 4 25.0	1.839	2.730	10.9	21.0
2 21	11 30.42	+ 5 26.5	1.783	2.735	7.0	20.8
3 2	11 23.14	+ 6 36.5	1.754	2.739	2.8	20.5
3 12	11 15.19	+ 7 47.8	1.753	2.743	2.0	20.5
3 22	11 7.54	+ 8 53.4	1.780	2.747	6.2	20.7
4 1	11 1.09	+ 9 47.0	1.834	2.752	10.1	21.0
4 11	10 56.53	+10 24.9	1.912	2.756	13.5	21.2

206181 2002 TN_{312} 3 8.9 93°.88 1°.8/ 6.8 18

2 1	11 38.84	+ 6 23.3	2.218	3.028	12.4	20.4
2 11	11 35.10	+ 7 23.9	2.144	3.038	9.4	20.2
2 21	11 29.55	+ 8 34.6	2.095	3.048	6.0	20.0
3 2	11 22.72	+ 9 49.6	2.074	3.058	2.6	19.8
3 12	11 15.39	+11 2.4	2.082	3.069	2.7	19.8
3 22	11 8.34	+12 6.8	2.120	3.079	6.1	20.0
4 1	11 2.34	+12 57.9	2.185	3.089	9.4	20.3
4 11	10 57.96	+13 33.1	2.273	3.098	12.3	20.5

243357 2008 VO_{19} 3 8.9 73°.41 2°.0/ 6.8 18

2 1	11 41.25	+ 7 44.8	2.014	2.828	13.4	20.7
2 11	11 37.04	+ 8 30.7	1.949	2.845	10.1	20.5
2 21	11 30.83	+ 9 25.2	1.908	2.861	6.4	20.3
3 2	11 23.25	+10 22.7	1.894	2.878	2.9	20.1
3 12	11 15.16	+11 16.6	1.909	2.895	3.0	20.1
3 22	11 7.48	+12 1.2	1.952	2.911	6.5	20.4
4 1	11 1.02	+12 32.4	2.022	2.928	9.9	20.6
4 11	10 56.39	+12 48.1	2.115	2.945	12.9	20.8

132632 2002 LU_{29} 3 8.9 342°.07 7°.9/ 2.0 16

2 1	11 37.83	+16 25.3	1.219	2.080	17.3	19.3
2 11	11 35.96	+18 12.3	1.153	2.071	13.4	19.1
2 21	11 30.96	+20 7.7	1.107	2.063	9.7	18.8
3 2	11 23.54	+21 57.4	1.086	2.055	7.9	18.7
3 12	11 14.99	+23 26.3	1.088	2.049	9.7	18.8
3 22	11 6.85	+24 23.4	1.113	2.044	13.6	19.0
4 1	11 0.58	+24 43.9	1.159	2.039	17.7	19.2
4 11	10 57.18	+24 29.0	1.221	2.036	21.3	19.4

386951 2011 SL_{74} 3 8.9 232°.20 3°.6/13.3 18

2 1	11 38.25	−10 14.0	2.676	3.406	12.6	21.3
2 11	11 34.50	−10 11.2	2.570	3.399	10.4	21.2
2 21	11 29.14	− 9 51.9	2.486	3.391	7.8	21.0
3 2	11 22.58	− 9 16.5	2.428	3.384	5.2	20.8
3 12	11 15.44	− 8 27.5	2.398	3.376	3.6	20.7
3 22	11 8.41	− 7 29.0	2.398	3.368	4.6	20.7
4 1	11 2.17	− 6 25.9	2.427	3.360	7.2	20.9
4 11	10 57.30	− 5 23.9	2.482	3.351	9.9	21.0

372697 2009 WH_{211} 3 8.9 184°.58 1°.6/10.7 17

2 1	11 41.06	− 3 33.0	2.376	3.141	13.0	21.9
2 11	11 36.76	− 3 9.9	2.281	3.142	10.3	21.7
2 21	11 30.65	− 2 31.6	2.209	3.141	7.2	21.5
3 2	11 23.21	− 1 40.3	2.164	3.140	3.7	21.3
3 12	11 15.16	− 0 40.3	2.148	3.139	1.7	21.2
3 22	11 7.30	+ 0 23.0	2.163	3.137	4.6	21.4
4 1	11 0.38	+ 1 23.8	2.206	3.135	8.1	21.6
4 11	10 55.05	+ 2 17.2	2.276	3.132	11.2	21.8

335198 2005 EN_{88} 3 8.9 165°.25 1°.4/10.3 17

2 1	11 44.22	− 0 48.0	2.493	3.261	12.4	21.2
2 11	11 39.04	− 0 56.0	2.401	3.264	9.8	21.0
2 21	11 32.06	− 0 53.2	2.332	3.267	6.7	20.8
3 2	11 23.78	− 0 41.2	2.292	3.270	3.4	20.6
3 12	11 14.92	− 0 22.9	2.281	3.272	1.6	20.5
3 22	11 6.27	− 0 1.7	2.301	3.274	4.5	20.7
4 1	10 58.59	+ 0 18.4	2.350	3.276	7.8	20.9
4 11	10 52.50	+ 0 34.0	2.425	3.277	10.7	21.1

418345 2008 GB_{61} 3 8.9 235°.95 3°.2/ 5.5 17

2 1	11 41.31	+ 9 53.0	1.956	2.775	13.5	21.7
2 11	11 37.41	+10 59.8	1.869	2.768	10.3	21.4
2 21	11 31.31	+12 16.5	1.806	2.760	6.7	21.2
3 2	11 23.55	+13 36.1	1.770	2.751	3.6	21.0
3 12	11 15.00	+14 50.5	1.763	2.742	4.3	21.0
3 22	11 6.66	+15 52.3	1.784	2.733	7.9	21.2
4 1	10 59.50	+16 36.2	1.831	2.724	11.5	21.4
4 11	10 54.28	+16 59.8	1.901	2.715	14.8	21.6

15312 1993 FH_{27} 3 8.9 160°.77 0°.5/ 9.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 43.10	+ 1 18.4	2.321	3.104	12.8	19.3
2 11	11 38.29	+ 1 32.8	2.234	3.108	10.0	19.2
2 21	11 31.62	+ 1 58.6	2.170	3.113	6.6	18.9
3 2	11 23.60	+ 2 32.9	2.134	3.117	2.9	18.7
3 12	11 15.00	+ 3 11.4	2.128	3.121	1.1	18.6
3 22	11 6.64	+ 3 49.6	2.152	3.124	4.9	18.9
4 1	10 59.32	+ 4 22.8	2.204	3.126	8.4	19.1
4 11	10 53.66	+ 4 47.5	2.281	3.129	11.5	19.3

387168 2012 TL_{254} 3 8.9 75°.83 2°.5/11.4 17

2 1	11 41.22	− 4 20.1	2.281	3.045	13.6	21.1
2 11	11 36.94	− 4 29.6	2.191	3.048	10.9	20.9
2 21	11 30.78	− 4 24.9	2.124	3.052	7.7	20.7
3 2	11 23.27	− 4 7.1	2.084	3.055	4.4	20.5
3 12	11 15.15	− 3 39.2	2.071	3.059	2.5	20.4
3 22	11 7.24	− 3 5.3	2.088	3.062	4.8	20.5
4 1	11 0.35	− 2 30.2	2.134	3.066	8.1	20.7
4 11	10 55.11	− 1 58.7	2.204	3.070	11.1	20.9

53012 1998 VU_{9} 3 8.9 92°.36 1°.3/ 9.9 18

2 1	11 43.27	− 0 58.7	1.725	2.518	16.2	19.0
2 11	11 39.01	− 0 47.4	1.649	2.527	12.7	18.7
2 21	11 32.36	− 0 19.3	1.594	2.536	8.6	18.5
3 2	11 23.96	+ 0 22.7	1.564	2.545	4.1	18.3
3 12	11 14.84	+ 1 12.8	1.562	2.554	1.6	18.1
3 22	11 6.09	+ 2 4.4	1.588	2.563	5.8	18.4
4 1	10 58.76	+ 2 50.7	1.641	2.572	10.1	18.7
4 11	10 53.60	+ 3 26.4	1.717	2.581	13.8	18.9

360393 2002 EE_{5} 3 8.9 219°.78 0°.9/ 8.2 16

2 1	11 54.62	+ 7 33.4	2.074	2.859	14.1	21.3
2 11	11 47.53	+ 7 25.0	1.971	2.849	10.9	21.0
2 21	11 37.90	+ 7 22.6	1.892	2.838	7.2	20.8
3 2	11 26.31	+ 7 22.9	1.842	2.826	3.0	20.5
3 12	11 13.75	+ 7 21.8	1.823	2.814	2.0	20.4
3 22	11 1.39	+ 7 15.7	1.836	2.801	6.3	20.6
4 1	10 50.35	+ 7 1.9	1.877	2.787	10.4	20.9
4 11	10 41.52	+ 6 38.7	1.945	2.772	14.0	21.1

391189 2006 CL_{16} 3 8.9 287°.35 2°.2/ 6.6 17

2 1	11 38.56	+ 6 11.4	1.920	2.737	13.8	21.3
2 11	11 35.43	+ 7 16.7	1.821	2.719	10.6	21.0
2 21	11 30.11	+ 8 36.2	1.746	2.700	6.8	20.8
3 2	11 23.09	+10 4.0	1.697	2.682	3.0	20.5
3 12	11 15.20	+11 31.9	1.677	2.663	3.3	20.5
3 22	11 7.41	+12 51.5	1.686	2.645	7.3	20.7
4 1	11 0.71	+13 55.6	1.720	2.626	11.4	20.9
4 11	10 55.90	+14 40.0	1.777	2.608	15.0	21.1

226944 2004 TZ_{344} 3 8.9 35°.44 7°.6/ 2.3 18

2 1	11 44.88	+22 35.4	1.697	2.531	14.5	19.2
2 11	11 40.34	+23 41.0	1.641	2.539	11.5	19.0
2 21	11 33.22	+24 42.9	1.608	2.547	8.8	18.9
3 2	11 24.30	+25 31.8	1.601	2.555	7.6	18.8
3 12	11 14.74	+25 59.4	1.620	2.564	8.7	18.9
3 22	11 5.77	+26 1.6	1.663	2.573	11.3	19.1
4 1	10 58.45	+25 37.8	1.730	2.583	14.2	19.3
4 11	10 53.52	+24 50.9	1.817	2.592	16.8	19.5

63392 2001 JE_{7} 3 8.9 169°.58 5°.0/ 1.5 18

2 1	11 42.92	+22 53.6	3.048	3.858	9.4	20.3
2 11	11 37.78	+23 57.6	2.979	3.863	7.4	20.1
2 21	11 31.10	+24 59.3	2.938	3.867	5.7	20.0
3 2	11 23.35	+25 53.2	2.925	3.871	5.0	20.0
3 12	11 15.16	+26 34.3	2.942	3.874	5.9	20.0
3 22	11 7.22	+26 59.7	2.988	3.876	7.6	20.2
4 1	11 0.17	+27 7.8	3.060	3.878	9.6	20.3
4 11	10 54.51	+26 59.3	3.155	3.879	11.4	20.4

325270 2008 GE_{120} 3 8.9 22°.31 4°.5/ 4.8 18

2 1	11 40.38	+11 30.5	1.521	2.360	15.7	19.9
2 11	11 37.16	+12 45.7	1.454	2.362	11.9	19.7
2 21	11 31.34	+14 10.5	1.409	2.365	7.9	19.5
3 2	11 23.59	+15 35.6	1.389	2.369	4.7	19.3
3 12	11 15.04	+16 50.4	1.396	2.373	5.8	19.4
3 22	11 6.91	+17 46.5	1.429	2.377	9.6	19.6
4 1	11 0.35	+18 18.6	1.486	2.381	13.5	19.8
4 11	10 56.14	+18 25.9	1.563	2.386	17.0	20.1

248718 2006 QM_{9} 3 8.9 121°.20 1°.1/10.2 18

2 1	11 43.82	− 0 17.4	2.794	3.558	11.3	20.9
2 11	11 38.45	− 0 21.9	2.711	3.573	8.8	20.7
2 21	11 31.52	− 0 17.0	2.653	3.588	6.0	20.6
3 2	11 23.52	− 0 4.2	2.624	3.602	2.9	20.4
3 12	11 15.09	+ 0 13.5	2.625	3.616	1.3	20.3
3 22	11 6.92	+ 0 33.0	2.657	3.630	4.0	20.5
4 1	10 59.65	+ 0 51.2	2.720	3.643	6.9	20.7
4 11	10 53.80	+ 1 4.9	2.808	3.656	9.6	20.9

456662 2007 RF_{55} 3 8.9 243°.34 2°.1/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 44.05	− 2 19.8	1.648	2.437	16.9	21.9
2 11	11 39.95	− 2 20.3	1.556	2.431	13.5	21.7
2 21	11 33.22	− 2 2.3	1.485	2.424	9.4	21.4
3 2	11 24.44	− 1 27.8	1.439	2.417	4.8	21.1
3 12	11 14.63	− 0 41.3	1.419	2.410	2.2	20.9
3 22	11 5.03	+ 0 10.3	1.427	2.403	6.2	21.2
4 1	10 56.83	+ 0 59.6	1.461	2.396	10.9	21.4
4 11	10 50.96	+ 1 39.9	1.518	2.388	15.0	21.6

73604 4039 $T\text{-}_2$ 3 8.9 30°.87 0°.6/ 8.4 18

2 1	11 39.94	+ 2 21.3	1.252	2.083	18.9	18.6
2 11	11 37.19	+ 2 57.9	1.190	2.092	14.5	18.4
2 21	11 31.51	+ 3 54.3	1.147	2.103	9.4	18.1
3 2	11 23.69	+ 5 4.1	1.128	2.114	3.8	17.8
3 12	11 15.02	+ 6 17.4	1.134	2.126	2.1	17.8
3 22	11 6.91	+ 7 23.9	1.165	2.138	7.7	18.1
4 1	11 0.61	+ 8 15.2	1.219	2.152	12.7	18.4
4 11	10 56.97	+ 8 46.3	1.294	2.165	17.0	18.7

17003 1999 CE_{55} 3 8.9 257°.62 4°.6/ 3.8 18

2 1	11 39.50	+11 55.2	1.860	2.690	13.6	17.9
2 11	11 36.18	+13 33.0	1.778	2.682	10.4	17.7
2 21	11 30.59	+15 21.2	1.720	2.674	7.0	17.4
3 2	11 23.29	+17 10.6	1.689	2.665	4.6	17.3
3 12	11 15.17	+18 51.1	1.687	2.656	5.9	17.3
3 22	11 7.25	+20 13.9	1.712	2.648	9.3	17.5
4 1	11 0.54	+21 13.0	1.763	2.639	12.8	17.7
4 11	10 55.84	+21 46.5	1.835	2.630	16.0	17.9

500513 2012 TE_{289} 3 8.9 74°.94 2°.2/11.1 17

2 1	11 41.77	− 3 12.8	2.256	3.025	13.5	21.5
2 11	11 37.38	− 3 22.4	2.167	3.028	10.8	21.3
2 21	11 31.09	− 3 18.5	2.101	3.031	7.6	21.1
3 2	11 23.42	− 3 2.3	2.061	3.035	4.2	20.9
3 12	11 15.14	− 2 36.9	2.049	3.038	2.3	20.7
3 22	11 7.08	− 2 6.4	2.067	3.042	4.8	20.9
4 1	11 0.05	− 1 35.4	2.113	3.045	8.2	21.1
4 11	10 54.69	− 1 8.6	2.185	3.049	11.3	21.3

119635 2001 XB_{17} 3 8.9 182°.34 3°.7/12.6 18

2 1	11 43.25	− 8 21.1	2.274	3.015	14.3	20.4
2 11	11 38.57	− 8 31.7	2.178	3.016	11.7	20.2
2 21	11 31.92	− 8 25.4	2.103	3.016	8.7	20.0
3 2	11 23.79	− 8 2.3	2.054	3.016	5.6	19.8
3 12	11 14.97	− 7 25.0	2.034	3.015	3.7	19.7
3 22	11 6.32	− 6 37.8	2.043	3.014	5.2	19.8
4 1	10 58.70	− 5 46.4	2.081	3.012	8.3	20.0
4 11	10 52.80	− 4 56.6	2.144	3.010	11.4	20.1

430773 2004 RV_{331} 3 8.9 79°.84 1°.2/ 7.9 18

2 1	11 48.06	+ 7 18.1	1.916	2.718	14.4	21.3
2 11	11 42.26	+ 7 24.2	1.851	2.739	11.0	21.1
2 21	11 34.23	+ 7 38.0	1.809	2.759	7.0	20.9
3 2	11 24.68	+ 7 55.1	1.795	2.780	2.9	20.7
3 12	11 14.62	+ 8 10.8	1.810	2.800	2.1	20.7
3 22	11 5.09	+ 8 20.6	1.855	2.821	6.1	21.0
4 1	10 57.02	+ 8 21.6	1.926	2.841	9.9	21.2
4 11	10 51.05	+ 8 11.9	2.022	2.860	13.1	21.5

205761 2002 CC_{35} 3 8.9 136°.99 0°.3/ 9.2 18

2 1	11 49.50	+ 2 17.6	1.935	2.719	15.0	20.5
2 11	11 43.46	+ 2 24.8	1.858	2.733	11.6	20.3
2 21	11 35.10	+ 2 44.0	1.804	2.747	7.6	20.1
3 2	11 25.09	+ 3 12.1	1.778	2.760	3.3	19.9
3 12	11 14.42	+ 3 43.9	1.781	2.773	1.3	19.8
3 22	11 4.17	+ 4 14.3	1.813	2.784	5.7	20.1
4 1	10 55.34	+ 4 38.6	1.874	2.795	9.7	20.3
4 11	10 48.66	+ 4 53.2	1.960	2.805	13.2	20.6

193578 2001 BH_2 3 8.9 31°.73 2°.6/11.6 18

2 1	11 37.09	− 6 46.4	1.752	2.531	16.5	20.1
2 11	11 34.30	− 6 12.4	1.671	2.537	13.2	19.9
2 21	11 29.32	− 5 14.9	1.611	2.543	9.4	19.7
3 2	11 22.74	− 3 56.5	1.576	2.550	5.2	19.5
3 12	11 15.46	− 2 23.9	1.567	2.557	2.6	19.3
3 22	11 8.48	− 0 45.7	1.587	2.564	5.5	19.5
4 1	11 2.75	+ 0 48.8	1.633	2.572	9.6	19.7
4 11	10 59.00	+ 2 11.5	1.704	2.580	13.3	20.0

142543 2002 TT_{51} 3 8.9 38°.14 2°.3/ 7.2 18

2 1	11 43.17	+ 7 23.1	1.269	2.106	18.3	18.7
2 11	11 39.45	+ 7 56.8	1.219	2.126	13.9	18.5
2 21	11 32.81	+ 8 42.9	1.190	2.147	8.8	18.2
3 2	11 24.17	+ 9 33.6	1.184	2.169	3.8	18.0
3 12	11 14.87	+10 19.8	1.203	2.192	3.5	18.0
3 22	11 6.31	+10 53.6	1.248	2.215	8.3	18.4
4 1	10 59.70	+11 10.2	1.317	2.239	12.9	18.7
4 11	10 55.76	+11 8.0	1.406	2.263	16.7	19.0

376277 2011 FG_{62} 3 8.9 355°.90 1°.1/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 39.41	− 1 38.1	1.934	2.724	14.7	21.2
2 11	11 35.91	− 1 12.4	1.847	2.724	11.6	21.0
2 21	11 30.30	− 0 29.8	1.782	2.723	7.8	20.8
3 2	11 23.14	+ 0 26.7	1.742	2.723	3.7	20.5
3 12	11 15.27	+ 1 31.4	1.731	2.723	1.4	20.4
3 22	11 7.64	+ 2 37.7	1.748	2.723	5.4	20.6
4 1	11 1.16	+ 3 38.5	1.792	2.723	9.4	20.9
4 11	10 56.54	+ 4 28.5	1.860	2.723	13.0	21.1

149389 2003 AA_8 3 8.9 356°.57 4°.3/10.9 18

2 1	11 49.82	− 0 59.1	1.383	2.179	19.2	18.6
2 11	11 44.89	− 2 24.2	1.299	2.175	15.6	18.3
2 21	11 36.72	− 3 37.9	1.235	2.171	11.2	18.0
3 2	11 25.98	− 4 38.0	1.196	2.169	6.6	17.8
3 12	11 13.97	− 5 24.1	1.182	2.168	4.3	17.6
3 22	11 2.26	− 5 57.5	1.195	2.168	7.6	17.8
4 1	10 52.38	− 6 22.0	1.233	2.169	12.2	18.1
4 11	10 45.43	− 6 42.8	1.292	2.172	16.5	18.3

402077 2003 US_{199} 3 8.9 113°.02 1°.2/ 7.8 18

2 1	11 45.44	+ 4 57.5	1.816	2.620	15.0	21.5
2 11	11 40.46	+ 5 37.2	1.748	2.637	11.4	21.3
2 21	11 33.19	+ 6 28.8	1.703	2.654	7.3	21.1
3 2	11 24.29	+ 7 26.9	1.686	2.671	3.0	20.9
3 12	11 14.80	+ 8 24.3	1.696	2.686	2.3	20.9
3 22	11 5.76	+ 9 14.3	1.736	2.702	6.5	21.2
4 1	10 58.17	+ 9 51.7	1.803	2.716	10.5	21.4
4 11	10 52.70	+10 13.8	1.892	2.731	13.9	21.7

253134 2002 VC_{30} 3 8.9 78°.17 4°.2/12.9 18 R

2 1	11 40.70	− 9 31.2	1.726	2.487	17.4	20.3
2 11	11 37.12	− 9 27.6	1.647	2.496	14.2	20.1
2 21	11 31.19	− 9 0.0	1.587	2.505	10.5	19.9
3 2	11 23.53	− 8 9.2	1.551	2.514	6.7	19.7
3 12	11 15.12	− 6 59.8	1.541	2.524	4.3	19.5
3 22	11 7.04	− 5 39.1	1.559	2.533	6.0	19.7
4 1	11 0.32	− 4 16.0	1.603	2.542	9.7	19.9
4 11	10 55.73	− 2 59.2	1.671	2.551	13.3	20.1

171863 2001 QK_3 3 8.9 144°.89 0°.7/ 7.9 17

2 1	11 40.14	+ 4 39.1	2.783	3.574	10.7	21.1
2 11	11 35.72	+ 5 15.3	2.701	3.583	8.2	20.9
2 21	11 29.80	+ 5 59.8	2.645	3.593	5.2	20.7
3 2	11 22.83	+ 6 49.0	2.617	3.602	2.1	20.5
3 12	11 15.44	+ 7 38.5	2.620	3.610	1.5	20.5
3 22	11 8.27	+ 8 24.1	2.653	3.618	4.6	20.7
4 1	11 1.95	+ 9 2.1	2.715	3.626	7.5	20.9
4 11	10 56.96	+ 9 29.9	2.803	3.633	10.1	21.1

384030 2008 UK_{128} 3 8.9 328°.27 7°.3/ 1.6 17

2 1	11 41.19	+21 32.7	1.801	2.639	13.7	20.3
2 11	11 37.61	+22 49.0	1.728	2.628	10.9	20.1
2 21	11 31.57	+24 4.7	1.678	2.619	8.3	19.9
3 2	11 23.72	+25 10.5	1.654	2.609	7.3	19.8
3 12	11 15.05	+25 57.3	1.656	2.600	8.5	19.9
3 22	11 6.70	+26 19.5	1.683	2.592	11.2	20.0
4 1	10 59.75	+26 14.8	1.733	2.584	14.2	20.2
4 11	10 55.00	+25 44.6	1.803	2.576	17.0	20.3

388359 2006 UE_{20} 3 8.9 70°.62 3°.0/12.4 17

2 1	11 37.95	− 7 44.8	2.357	3.109	13.5	21.7
2 11	11 34.40	− 7 33.6	2.269	3.115	10.9	21.5
2 21	11 29.12	− 7 5.1	2.203	3.122	8.0	21.3
3 2	11 22.61	− 6 20.9	2.162	3.129	4.9	21.2
3 12	11 15.56	− 5 24.4	2.151	3.135	3.0	21.0
3 22	11 8.72	− 4 20.7	2.168	3.142	4.6	21.2
4 1	11 2.83	− 3 15.9	2.213	3.149	7.6	21.4
4 11	10 58.46	− 2 15.4	2.285	3.155	10.6	21.6

129020 2004 TL_{328} 3 8.9 220°.82 4°.0/ 5.2 18

2 1	11 43.88	+10 38.6	1.722	2.545	14.8	20.0
2 11	11 39.72	+11 51.9	1.638	2.539	11.3	19.8
2 21	11 33.01	+13 16.0	1.577	2.532	7.5	19.5
3 2	11 24.35	+14 42.6	1.544	2.524	4.3	19.3
3 12	11 14.75	+16 1.9	1.538	2.516	5.2	19.4
3 22	11 5.40	+17 5.4	1.560	2.507	9.0	19.6
4 1	10 57.45	+17 47.3	1.607	2.498	13.0	19.8
4 11	10 51.77	+18 5.6	1.675	2.488	16.5	20.0

449663 2014 KA_{80} 3 8.9 133°.48 4°.6/ 5.6 18

2 1	11 46.23	+11 54.8	1.378	2.213	17.2	20.6
2 11	11 41.98	+12 50.8	1.309	2.215	13.2	20.4
2 21	11 34.66	+13 55.8	1.261	2.217	8.7	20.1
3 2	11 25.05	+15 0.7	1.238	2.218	5.0	19.9
3 12	11 14.46	+15 54.7	1.240	2.220	5.8	20.0
3 22	11 4.37	+16 29.7	1.269	2.221	10.0	20.2
4 1	10 56.14	+16 41.1	1.321	2.222	14.4	20.5
4 11	10 50.72	+16 28.6	1.392	2.223	18.3	20.7

202296 2005 CC_{41} 3 8.9 97.°86 2.°8/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.48	+ 9 41.1	2.107	2.924	12.7	20.7
2 11	11 36.48	+10 38.8	2.035	2.932	9.6	20.5
2 21	11 30.52	+11 44.2	1.987	2.941	6.2	20.3
3 2	11 23.19	+12 51.0	1.968	2.950	3.2	20.1
3 12	11 15.31	+13 52.6	1.977	2.958	3.7	20.2
3 22	11 7.74	+14 42.8	2.015	2.966	6.9	20.4
4 1	11 1.31	+15 17.7	2.079	2.975	10.2	20.6
4 11	10 56.65	+15 35.5	2.166	2.983	13.1	20.8

87242 2000 OU_{45} 3 8.9 154.°43 1.°0/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.80	− 2 2.7	2.909	3.674	10.9	20.3
2 11	11 34.68	− 1 38.4	2.818	3.681	8.5	20.2
2 21	11 29.13	− 1 2.5	2.752	3.687	5.8	20.0
3 2	11 22.58	− 0 17.4	2.714	3.693	2.9	19.8
3 12	11 15.59	+ 0 33.3	2.707	3.698	1.2	19.7
3 22	11 8.78	+ 1 25.5	2.730	3.703	3.8	19.9
4 1	11 2.75	+ 2 15.0	2.783	3.708	6.7	20.1
4 11	10 57.96	+ 2 58.1	2.862	3.713	9.3	20.3

169206 2001 RU_{89} 3 8.9 209.°64 1.°9/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.21	+ 9 16.1	2.478	3.283	11.4	20.3
2 11	11 37.57	+ 9 43.2	2.389	3.279	8.7	20.1
2 21	11 31.16	+10 16.3	2.325	3.276	5.6	19.9
3 2	11 23.46	+10 51.2	2.289	3.272	2.6	19.7
3 12	11 15.20	+11 23.2	2.283	3.268	2.7	19.6
3 22	11 7.14	+11 48.1	2.307	3.264	5.7	19.8
4 1	11 0.05	+12 2.7	2.358	3.260	8.9	20.0
4 11	10 54.51	+12 5.3	2.434	3.256	11.7	20.2

221091 2005 SF_{85} 3 8.9 271.°27 0.°9/ 8.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.80	+ 4 40.5	1.823	2.631	14.8	21.2
2 11	11 38.76	+ 5 4.3	1.729	2.620	11.4	21.0
2 21	11 32.33	+ 5 40.6	1.658	2.609	7.5	20.7
3 2	11 24.07	+ 6 25.2	1.612	2.597	3.0	20.4
3 12	11 14.90	+ 7 11.8	1.594	2.586	2.0	20.3
3 22	11 5.89	+ 7 54.0	1.605	2.574	6.6	20.6
4 1	10 58.14	+ 8 25.9	1.642	2.562	10.9	20.8
4 11	10 52.48	+ 8 43.8	1.702	2.550	14.7	21.0

222287 2000 SM_{125} 3 8.9 164.°17 6.°5/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.79	+22 53.9	2.221	3.040	12.1	20.5
2 11	11 40.54	+24 2.5	2.155	3.044	9.6	20.3
2 21	11 33.17	+25 8.4	2.115	3.047	7.4	20.2
3 2	11 24.30	+26 3.7	2.102	3.050	6.5	20.1
3 12	11 14.84	+26 41.6	2.117	3.053	7.5	20.2
3 22	11 5.77	+26 58.3	2.159	3.056	9.7	20.3
4 1	10 57.98	+26 52.4	2.226	3.058	12.2	20.5
4 11	10 52.14	+26 25.6	2.314	3.059	14.5	20.7

168973 2001 BQ_{64} 3 8.9 24.°29 1.°3/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.43	+ 1 52.3	1.173	2.012	19.3	19.3
2 11	11 34.66	+ 2 58.9	1.114	2.021	14.8	19.1
2 21	11 29.95	+ 4 29.0	1.073	2.031	9.5	18.8
3 2	11 23.10	+ 6 14.1	1.056	2.043	3.8	18.5
3 12	11 15.38	+ 8 1.3	1.064	2.055	2.8	18.5
3 22	11 8.20	+ 9 37.3	1.096	2.068	8.4	18.9
4 1	11 2.84	+10 52.0	1.152	2.082	13.5	19.2
4 11	11 0.13	+11 40.1	1.227	2.097	17.8	19.5

15844 1995 UQ_{5} 3 8.9 251.°96 2.°6/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.63	− 5 2.2	2.584	3.336	12.4	18.1
2 11	11 37.19	− 5 12.5	2.473	3.322	10.1	17.9
2 21	11 30.98	− 5 9.7	2.386	3.308	7.3	17.7
3 2	11 23.43	− 4 54.6	2.325	3.294	4.3	17.5
3 12	11 15.20	− 4 29.4	2.294	3.279	2.6	17.4
3 22	11 7.03	− 3 57.5	2.292	3.265	4.5	17.5
4 1	10 59.69	− 3 23.3	2.319	3.250	7.6	17.6
4 11	10 53.80	− 2 51.2	2.373	3.234	10.6	17.8

206680 2003 YU_{132} 3 8.9 34.°01 6.°0/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.42	+19 12.2	1.913	2.746	13.2	19.7
2 11	11 37.46	+20 22.1	1.851	2.752	10.2	19.5
2 21	11 31.28	+21 32.1	1.813	2.758	7.5	19.3
3 2	11 23.54	+22 33.9	1.802	2.764	6.1	19.3
3 12	11 15.19	+23 19.9	1.817	2.771	7.1	19.3
3 22	11 7.26	+23 45.0	1.860	2.778	9.8	19.5
4 1	11 0.67	+23 47.1	1.926	2.785	12.6	19.7
4 11	10 56.11	+23 27.4	2.013	2.793	15.2	19.9

210507 1998 KL_{11} 3 8.9 28.°09 4.°3/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 35.15	−12 44.3	1.928	2.673	16.3	19.9
2 11	11 32.64	−12 13.6	1.846	2.683	13.5	19.8
2 21	11 28.16	−11 16.9	1.785	2.694	10.2	19.6
3 2	11 22.25	− 9 55.8	1.747	2.705	6.8	19.4
3 12	11 15.76	− 8 15.5	1.737	2.716	4.4	19.3
3 22	11 9.55	− 6 24.0	1.754	2.728	5.5	19.3
4 1	11 4.48	− 4 30.8	1.800	2.741	8.6	19.6
4 11	11 1.18	− 2 45.1	1.870	2.754	11.9	19.8

348497 2005 TA_{5} 3 8.9 126.°82 2.°3/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 46.37	− 3 43.0	1.636	2.416	17.4	21.5
2 11	11 41.53	− 3 32.6	1.561	2.429	13.8	21.3
2 21	11 34.09	− 3 2.0	1.507	2.442	9.6	21.1
3 2	11 24.76	− 2 13.7	1.478	2.455	5.0	20.8
3 12	11 14.65	− 1 13.5	1.476	2.467	2.3	20.7
3 22	11 4.96	− 0 9.1	1.502	2.478	6.0	20.9
4 1	10 56.85	+ 0 51.6	1.555	2.488	10.4	21.2
4 11	10 51.10	+ 1 42.0	1.632	2.498	14.3	21.5

502195 2015 BY_{69} 3 8.9 277.°56 3.°5/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.94	− 7 24.7	2.011	2.771	15.2	21.6
2 11	11 36.34	− 7 25.4	1.914	2.766	12.4	21.4
2 21	11 30.63	− 7 7.0	1.839	2.761	9.1	21.1
3 2	11 23.34	− 6 30.0	1.789	2.755	5.6	20.9
3 12	11 15.26	− 5 37.9	1.766	2.750	3.5	20.8
3 22	11 7.35	− 4 36.3	1.771	2.745	5.4	20.9
4 1	11 0.53	− 3 32.0	1.803	2.740	9.0	21.1
4 11	10 55.55	− 2 31.9	1.860	2.735	12.5	21.3

131962 2002 CG_{45} 3 8.9 58.°70 1.°2/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.28	+ 4 2.3	1.343	2.168	18.2	20.1
2 11	11 39.55	+ 4 42.3	1.282	2.182	13.9	19.8
2 21	11 32.96	+ 5 39.1	1.241	2.196	8.9	19.6
3 2	11 24.31	+ 6 45.7	1.224	2.210	3.6	19.3
3 12	11 14.87	+ 7 52.7	1.234	2.225	2.6	19.3
3 22	11 6.02	+ 8 50.8	1.269	2.240	7.7	19.6
4 1	10 58.98	+ 9 33.0	1.329	2.254	12.5	19.9
4 11	10 54.57	+ 9 55.6	1.410	2.269	16.6	20.2

119371 2001 SZ_{286} 3 8.9 75.°00 5.°0/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 47.38	+12 14.9	1.370	2.204	17.4	19.2
2 11	11 42.45	+13 36.2	1.327	2.232	13.1	19.0
2 21	11 34.65	+15 4.3	1.306	2.260	8.6	18.8
3 2	11 24.93	+16 28.2	1.310	2.288	5.3	18.7
3 12	11 14.64	+17 36.9	1.341	2.316	6.3	18.8
3 22	11 5.19	+18 22.9	1.398	2.343	10.0	19.1
4 1	10 57.74	+18 43.2	1.478	2.370	13.9	19.4
4 11	10 52.98	+18 38.9	1.579	2.396	17.2	19.7

401644 2013 GF_{94} 3 8.9 38.°56 4.°0/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.39	− 6 44.7	1.211	2.013	21.1	20.2
2 11	11 37.66	− 6 46.5	1.149	2.026	17.0	19.9
2 21	11 31.90	− 6 19.7	1.104	2.040	12.2	19.7
3 2	11 23.92	− 5 25.9	1.081	2.055	7.1	19.5
3 12	11 15.04	− 4 12.3	1.082	2.070	4.0	19.3
3 22	11 6.73	− 2 49.2	1.107	2.086	7.1	19.5
4 1	11 0.31	− 1 28.3	1.157	2.102	11.8	19.8
4 11	10 56.64	− 0 19.5	1.227	2.120	16.2	20.2

277714 2006 DB_{31} 3 8.9 18.°90 0.°0/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.51	+ 2 40.9	1.552	2.369	16.5	20.4
2 11	11 37.16	+ 2 53.4	1.480	2.374	12.8	20.2
2 21	11 31.31	+ 3 20.7	1.429	2.381	8.4	19.9
3 2	11 23.62	+ 3 58.7	1.403	2.387	3.5	19.7
3 12	11 15.17	+ 4 41.0	1.403	2.395	1.5	19.5
3 22	11 7.12	+ 5 20.6	1.429	2.403	6.5	19.9
4 1	11 0.57	+ 5 51.4	1.481	2.412	11.0	20.2
4 11	10 56.28	+ 6 9.0	1.555	2.422	14.9	20.4

500424 2012 TH_{141} 3 8.9 127.°28 1.°7/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.36	+ 7 41.3	2.546	3.349	11.2	22.5
2 11	11 36.04	+ 8 24.7	2.470	3.360	8.5	22.4
2 21	11 30.09	+ 9 15.2	2.419	3.370	5.4	22.2
3 2	11 23.01	+10 8.5	2.396	3.380	2.4	22.0
3 12	11 15.47	+10 59.4	2.404	3.390	2.4	22.0
3 22	11 8.19	+11 43.3	2.441	3.399	5.4	22.2
4 1	11 1.85	+12 16.5	2.506	3.408	8.4	22.4
4 11	10 56.98	+12 37.1	2.597	3.417	11.1	22.6

328773 2009 UW_{115} 3 8.9 191.°48 1.°4/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.53	+ 5 58.5	2.024	2.830	13.6	21.9
2 11	11 38.21	+ 6 35.3	1.939	2.830	10.4	21.7
2 21	11 31.78	+ 7 22.8	1.877	2.829	6.7	21.4
3 2	11 23.79	+ 8 16.1	1.843	2.828	2.8	21.2
3 12	11 15.10	+ 9 9.0	1.837	2.826	2.4	21.1
3 22	11 6.67	+ 9 55.3	1.860	2.824	6.3	21.4
4 1	10 59.40	+10 30.1	1.910	2.822	10.1	21.6
4 11	10 54.01	+10 50.4	1.984	2.820	13.4	21.8

413467 2005 GL_{31} 3 8.9 353.°22 3.°3/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.93	+ 7 31.9	1.267	2.113	17.8	20.2
2 11	11 35.83	+ 8 36.0	1.195	2.108	13.6	19.9
2 21	11 30.80	+ 9 56.6	1.144	2.104	8.7	19.6
3 2	11 23.52	+11 24.7	1.117	2.101	4.1	19.3
3 12	11 15.22	+12 48.4	1.114	2.100	4.8	19.4
3 22	11 7.31	+13 56.6	1.136	2.099	9.6	19.6
4 1	11 1.12	+14 41.4	1.181	2.098	14.4	19.9
4 11	10 57.59	+14 59.5	1.245	2.099	18.6	20.1

331807 2003 SQ_{20} 3 8.9 203°.06 0°.0/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 42.30	+ 2 37.6	2.431	3.217	12.2	21.7
2 11	11 37.71	+ 2 57.6	2.336	3.213	9.4	21.5
2 21	11 31.30	+ 3 28.2	2.264	3.209	6.2	21.3
3 2	11 23.57	+ 4 6.2	2.221	3.205	2.6	21.0
3 12	11 15.21	+ 4 47.3	2.208	3.200	1.2	20.9
3 22	11 7.03	+ 5 26.9	2.224	3.194	4.9	21.2
4 1	10 59.79	+ 6 0.6	2.269	3.188	8.4	21.4
4 11	10 54.12	+ 6 25.0	2.340	3.182	11.4	21.6

35316 Monella 3 8.9 305°.28 2°.2/10.5 17

2 1	11 45.10	− 0 52.7	1.826	2.611	15.7	18.6
2 11	11 40.58	− 1 20.8	1.727	2.599	12.5	18.4
2 21	11 33.58	− 1 36.0	1.650	2.588	8.7	18.1
3 2	11 24.64	− 1 39.0	1.599	2.576	4.6	17.9
3 12	11 14.71	− 1 32.5	1.575	2.565	2.3	17.7
3 22	11 4.90	− 1 20.5	1.579	2.554	5.9	17.9
4 1	10 56.35	− 1 7.9	1.611	2.544	10.1	18.1
4 11	10 49.95	− 0 59.5	1.666	2.533	14.0	18.3

328602 2009 ST_{92} 3 8.9 197°.12 4°.6/ 3.5 17

2 1	11 45.79	+18 31.0	2.557	3.367	11.0	21.5
2 11	11 40.31	+19 26.1	2.474	3.363	8.5	21.3
2 21	11 32.96	+20 21.7	2.418	3.359	6.1	21.1
3 2	11 24.24	+21 11.9	2.390	3.354	4.7	21.0
3 12	11 14.94	+21 50.6	2.392	3.348	5.5	21.1
3 22	11 5.87	+22 14.0	2.424	3.342	7.8	21.2
4 1	10 57.85	+22 19.7	2.482	3.335	10.4	21.4
4 11	10 51.49	+22 8.1	2.563	3.327	12.8	21.5

196213 2003 BL_{32} 3 8.9 96°.92 2°.3/ 7.0 18

2 1	11 45.22	+ 5 43.4	1.469	2.289	17.1	20.5
2 11	11 40.80	+ 6 46.3	1.409	2.307	13.0	20.3
2 21	11 33.66	+ 8 3.9	1.370	2.325	8.3	20.1
3 2	11 24.59	+ 9 28.1	1.358	2.343	3.5	19.9
3 12	11 14.81	+10 48.5	1.372	2.360	3.5	19.9
3 22	11 5.62	+11 55.9	1.414	2.376	8.0	20.2
4 1	10 58.17	+12 44.2	1.480	2.393	12.4	20.5
4 11	10 53.23	+13 10.5	1.569	2.408	16.2	20.8

279332 2009 XY_{19} 3 8.9 63°.68 1°.6/ 7.3 17

2 1	11 40.74	+ 6 23.7	1.954	2.766	13.8	21.2
2 11	11 36.87	+ 7 5.0	1.876	2.770	10.5	20.9
2 21	11 30.91	+ 7 56.8	1.821	2.774	6.7	20.7
3 2	11 23.43	+ 8 53.9	1.794	2.778	2.8	20.5
3 12	11 15.31	+ 9 49.7	1.794	2.783	2.6	20.5
3 22	11 7.49	+10 37.9	1.823	2.787	6.5	20.7
4 1	11 0.87	+11 13.5	1.879	2.791	10.2	21.0
4 11	10 56.14	+11 33.6	1.958	2.796	13.5	21.2

289099 2004 TS_{301} 3 8.9 83°.16 1°.6/10.2 18

2 1	11 50.09	− 1 7.0	1.589	2.374	17.6	21.1
2 11	11 44.16	− 1 6.1	1.532	2.405	13.8	20.9
2 21	11 35.63	− 0 48.2	1.497	2.436	9.3	20.7
3 2	11 25.35	− 0 16.3	1.487	2.466	4.5	20.5
3 12	11 14.51	+ 0 23.8	1.504	2.496	1.9	20.4
3 22	11 4.38	+ 1 5.4	1.551	2.525	6.0	20.7
4 1	10 56.02	+ 1 42.1	1.624	2.553	10.3	21.0
4 11	10 50.15	+ 2 9.2	1.720	2.581	14.0	21.3

364735 2007 VS_{167} 3 8.9 213°.38 2°.3/11.0 17

2 1	11 44.07	− 4 5.9	1.968	2.737	15.2	22.0
2 11	11 39.58	− 3 59.2	1.869	2.731	12.2	21.8
2 21	11 32.81	− 3 34.7	1.792	2.724	8.6	21.5
3 2	11 24.30	− 2 54.2	1.741	2.717	4.7	21.3
3 12	11 14.91	− 2 1.6	1.719	2.709	2.4	21.1
3 22	11 5.66	− 1 3.1	1.725	2.700	5.5	21.3
4 1	10 57.59	− 0 5.4	1.759	2.691	9.5	21.5
4 11	10 51.49	+ 0 45.2	1.818	2.681	13.2	21.7

497812 2006 TP_{77} 3 8.9 201°.64 4°.6/15.9 17

2 1	11 37.94	−16 59.4	3.033	3.712	12.2	22.5
2 11	11 34.13	−16 47.9	2.923	3.708	10.4	22.3
2 21	11 28.86	−16 18.0	2.834	3.704	8.3	22.2
3 2	11 22.53	−15 29.5	2.771	3.699	6.2	22.0
3 12	11 15.71	−14 24.2	2.736	3.693	4.8	21.9
3 22	11 9.00	−13 6.1	2.730	3.688	5.0	21.9
4 1	11 3.01	−11 40.3	2.754	3.681	6.7	22.0
4 11	10 58.26	−10 12.7	2.806	3.675	8.9	22.2

437561 2014 AH_{4} 3 8.9 115°.33 4°.6/ 3.2 18

2 1	11 39.48	+16 16.5	2.345	3.170	11.4	21.0
2 11	11 35.62	+17 31.2	2.275	3.174	8.7	20.8
2 21	11 29.95	+18 48.5	2.231	3.178	6.1	20.6
3 2	11 23.00	+20 1.6	2.214	3.182	4.6	20.5
3 12	11 15.52	+21 4.0	2.227	3.187	5.5	20.6
3 22	11 8.31	+21 50.3	2.268	3.191	8.0	20.8
4 1	11 2.12	+22 17.8	2.334	3.195	10.7	20.9
4 11	10 57.55	+22 26.0	2.423	3.199	13.1	21.1

413505 2005 QB_{128} 3 8.9 117°.22 0°.7/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 46.70	+ 4 57.4	2.303	3.091	12.7	22.2
2 11	11 40.92	+ 5 19.2	2.233	3.113	9.7	22.0
2 21	11 33.26	+ 5 49.6	2.188	3.134	6.3	21.9
3 2	11 24.33	+ 6 24.9	2.171	3.155	2.5	21.7
3 12	11 14.95	+ 7 0.2	2.184	3.175	1.6	21.6
3 22	11 5.96	+ 7 31.2	2.228	3.195	5.2	21.9
4 1	10 58.16	+ 7 54.1	2.301	3.213	8.6	22.1
4 11	10 52.12	+ 8 6.7	2.399	3.231	11.5	22.4

124 Alkeste 3 8.9 285°.73 0°.6/ 9.5 18

2 1	11 40.22	− 0 1.1	1.817	2.615	15.2	12.3
2 11	11 36.78	+ 0 25.3	1.724	2.607	11.9	12.1
2 21	11 31.04	+ 1 8.7	1.653	2.599	8.0	11.8
3 2	11 23.57	+ 2 5.7	1.608	2.591	3.6	11.5
3 12	11 15.24	+ 3 10.2	1.590	2.583	1.3	11.4
3 22	11 7.10	+ 4 14.9	1.601	2.575	5.9	11.6
4 1	11 0.16	+ 5 12.7	1.638	2.567	10.3	11.9
4 11	10 55.23	+ 5 57.9	1.698	2.559	14.1	12.1

83338 2001 RH_{134} 3 8.9 115°.58 0°.8/ 7.9 18 R

2 1	11 38.53	+ 3 26.7	2.436	3.233	11.9	20.1
2 11	11 34.75	+ 4 19.1	2.357	3.242	9.0	19.9
2 21	11 29.32	+ 5 22.4	2.302	3.252	5.8	19.7
3 2	11 22.73	+ 6 32.4	2.276	3.261	2.3	19.5
3 12	11 15.66	+ 7 43.2	2.279	3.270	1.7	19.5
3 22	11 8.82	+ 8 49.2	2.313	3.279	5.1	19.7
4 1	11 2.92	+ 9 45.6	2.375	3.287	8.4	19.9
4 11	10 58.49	+10 28.9	2.461	3.296	11.2	20.1

512330 2016 LJ_{22} 3 8.9 197°.77 1°.5/ 7.1 17

2 1	11 39.75	+ 6 30.7	2.565	3.366	11.2	22.1
2 11	11 35.68	+ 7 19.4	2.474	3.363	8.5	21.9
2 21	11 29.95	+ 8 16.9	2.409	3.360	5.5	21.7
3 2	11 23.01	+ 9 18.8	2.372	3.357	2.3	21.5
3 12	11 15.54	+10 19.7	2.366	3.353	2.3	21.5
3 22	11 8.23	+11 14.5	2.389	3.349	5.4	21.7
4 1	11 1.79	+11 59.0	2.441	3.345	8.6	21.8
4 11	10 56.79	+12 30.3	2.518	3.340	11.3	22.0

432531 2010 GO_{120} 3 8.9 226°.81 8°.4/26.9 18

2 1	11 46.63	+33 5.4	2.532	3.334	11.3	21.0
2 11	11 41.16	+34 15.8	2.469	3.329	9.7	20.9
2 21	11 33.59	+35 16.9	2.431	3.323	8.6	20.8
3 2	11 24.53	+36 1.4	2.419	3.316	8.5	20.8
3 12	11 14.89	+36 23.3	2.434	3.310	9.5	20.9
3 22	11 5.61	+36 20.1	2.473	3.303	11.1	20.9
4 1	10 57.61	+35 51.9	2.535	3.296	12.9	21.1
4 11	10 51.52	+35 1.5	2.617	3.289	14.5	21.2

388273 2006 RZ_{42} 3 8.9 155°.98 0°.7/ 8.0 17

2 1	11 40.26	+ 5 3.8	2.722	3.514	10.9	22.1
2 11	11 35.90	+ 5 32.6	2.636	3.519	8.3	21.9
2 21	11 30.00	+ 6 9.5	2.576	3.524	5.3	21.7
3 2	11 23.01	+ 6 51.0	2.544	3.528	2.2	21.5
3 12	11 15.55	+ 7 32.8	2.542	3.532	1.5	21.5
3 22	11 8.30	+ 8 11.0	2.571	3.536	4.7	21.7
4 1	11 1.90	+ 8 41.8	2.628	3.540	7.7	21.9
4 11	10 56.87	+ 9 2.8	2.711	3.543	10.3	22.1

225520 2000 QD_{221} 3 8.9 169°.32 0°.9/ 7.9 18

2 1	11 42.81	+ 4 45.4	2.447	3.239	12.0	21.6
2 11	11 38.03	+ 5 22.3	2.361	3.243	9.1	21.4
2 21	11 31.48	+ 6 8.8	2.299	3.247	5.9	21.2
3 2	11 23.65	+ 7 1.0	2.266	3.251	2.4	21.0
3 12	11 15.27	+ 7 53.6	2.263	3.253	1.7	21.0
3 22	11 7.12	+ 8 41.6	2.291	3.255	5.2	21.2
4 1	10 59.94	+ 9 20.7	2.346	3.257	8.6	21.4
4 11	10 54.34	+ 9 48.0	2.428	3.257	11.5	21.6

310982 2003 UZ_{331} 3 8.9 23°.18 3°.6/12.0 18

2 1	11 38.68	− 7 14.4	1.375	2.168	19.5	20.6
2 11	11 36.17	− 7 1.6	1.299	2.171	15.8	20.3
2 21	11 30.91	− 6 21.0	1.242	2.176	11.4	20.1
3 2	11 23.58	− 5 14.2	1.207	2.181	6.6	19.8
3 12	11 15.31	− 3 47.9	1.198	2.186	3.6	19.6
3 22	11 7.40	− 2 12.1	1.213	2.192	6.6	19.8
4 1	11 1.10	− 0 38.5	1.254	2.198	11.3	20.1
4 11	10 57.30	+ 0 42.8	1.317	2.205	15.6	20.4

427743 2004 RV_{113} 3 8.9 175°.46 1°.1/ 9.9 17

2 1	11 46.26	+ 0 32.6	2.291	3.064	13.2	21.5
2 11	11 40.82	+ 0 26.2	2.198	3.066	10.4	21.3
2 21	11 33.38	+ 0 30.7	2.130	3.068	7.0	21.1
3 2	11 24.48	+ 0 44.2	2.089	3.069	3.3	20.9
3 12	11 14.92	+ 1 3.3	2.078	3.070	1.4	20.7
3 22	11 5.58	+ 1 24.2	2.097	3.070	4.9	21.0
4 1	10 57.32	+ 1 42.7	2.145	3.070	8.5	21.2
4 11	10 50.82	+ 1 55.4	2.219	3.069	11.7	21.4

134483 1998 WK_2 3 8.9 110°.22 0°.9/ 9.8 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 43.57	− 0 53.3	1.927	2.712	15.0	20.3
2 11	11 38.98	− 0 26.1	1.854	2.728	11.7	20.1
2 21	11 32.24	+ 0 16.8	1.803	2.745	7.8	19.9
3 2	11 24.00	+ 1 12.0	1.779	2.760	3.6	19.7
3 12	11 15.16	+ 2 13.3	1.783	2.776	1.3	19.6
3 22	11 6.70	+ 3 14.3	1.817	2.791	5.4	19.9
4 1	10 59.54	+ 4 8.6	1.878	2.805	9.3	20.1
4 11	10 54.34	+ 4 51.6	1.964	2.819	12.7	20.4

68642 2002 CH_{45} 3 8.9 219°.57 1°.3/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.43	+ 4 1.6	2.029	2.828	13.8	20.4
2 11	11 39.06	+ 4 57.8	1.931	2.818	10.7	20.2
2 21	11 32.46	+ 6 8.5	1.857	2.807	6.9	19.9
3 2	11 24.18	+ 7 28.4	1.811	2.795	2.8	19.6
3 12	11 15.04	+ 8 50.2	1.794	2.783	2.3	19.6
3 22	11 6.03	+10 6.3	1.806	2.770	6.5	19.8
4 1	10 58.14	+11 9.9	1.846	2.756	10.5	20.0
4 11	10 52.15	+11 56.7	1.910	2.741	14.1	20.2

103815 2000 DE_{20} 3 8.9 131°.65 1°.3/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 47.30	− 1 10.3	1.663	2.449	16.9	20.0
2 11	11 42.22	− 0 56.9	1.588	2.462	13.3	19.8
2 21	11 34.56	− 0 25.8	1.534	2.475	9.0	19.6
3 2	11 25.03	+ 0 19.8	1.506	2.486	4.3	19.3
3 12	11 14.71	+ 1 13.8	1.505	2.497	1.7	19.2
3 22	11 4.83	+ 2 9.1	1.533	2.508	6.1	19.5
4 1	10 56.50	+ 2 58.6	1.588	2.518	10.5	19.8
4 11	10 50.54	+ 3 36.6	1.667	2.527	14.4	20.0

36710 2000 RR_{31} 3 8.9 210°.09 2°.0/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.56	− 4 10.2	2.258	3.023	13.7	20.1
2 11	11 37.35	− 3 55.8	2.159	3.018	10.9	19.9
2 21	11 31.21	− 3 25.4	2.082	3.012	7.7	19.6
3 2	11 23.61	− 2 40.7	2.032	3.006	4.1	19.4
3 12	11 15.31	− 1 45.9	2.010	3.000	2.0	19.2
3 22	11 7.16	− 0 46.2	2.019	2.993	4.8	19.4
4 1	11 0.00	+ 0 12.5	2.055	2.986	8.4	19.6
4 11	10 54.50	+ 1 4.5	2.117	2.978	11.7	19.8

240868 2006 CK_{46} 3 8.9 27°.49 0°.6/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.46	+ 3 34.8	1.300	2.126	18.6	20.6
2 11	11 39.97	+ 3 54.7	1.229	2.129	14.4	20.3
2 21	11 33.45	+ 4 31.7	1.179	2.133	9.4	20.0
3 2	11 24.65	+ 5 20.4	1.152	2.137	3.8	19.7
3 12	11 14.87	+ 6 12.4	1.150	2.142	2.1	19.6
3 22	11 5.55	+ 6 58.9	1.174	2.147	7.7	20.0
4 1	10 58.06	+ 7 32.5	1.221	2.152	12.9	20.3
4 11	10 53.34	+ 7 48.8	1.290	2.158	17.2	20.5

259186 2003 AT_{26} 3 8.9 339°.33 6°.2/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.78	+14 4.5	1.428	2.278	15.9	19.3
2 11	11 35.53	+15 41.2	1.355	2.269	12.2	19.1
2 21	11 30.54	+17 27.7	1.305	2.261	8.4	18.8
3 2	11 23.45	+19 12.5	1.280	2.253	6.2	18.7
3 12	11 15.38	+20 43.0	1.280	2.247	7.7	18.7
3 22	11 7.64	+21 49.0	1.305	2.241	11.5	18.9
4 1	11 1.46	+22 24.9	1.352	2.236	15.4	19.2
4 11	10 57.76	+22 30.1	1.418	2.232	18.9	19.4

161077 2002 LB_{43} 3 8.9 206°.82 1°.3/ 7.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.29	+ 4 51.3	2.431	3.231	11.8	20.4
2 11	11 35.45	+ 5 49.4	2.339	3.227	9.0	20.2
2 21	11 29.88	+ 6 58.6	2.272	3.222	5.8	20.0
3 2	11 23.03	+ 8 14.3	2.233	3.217	2.4	19.7
3 12	11 15.59	+ 9 30.3	2.224	3.212	2.2	19.7
3 22	11 8.32	+10 40.6	2.245	3.207	5.6	19.9
4 1	11 1.94	+11 40.0	2.294	3.201	8.9	20.1
4 11	10 57.06	+12 25.1	2.368	3.195	11.8	20.3

56240 1999 JV_{51} 3 8.9 276°.00 6°.6/15.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.50	−15 58.3	1.965	2.682	16.9	18.7
2 11	11 36.25	−16 16.7	1.860	2.670	14.5	18.5
2 21	11 30.76	−16 10.5	1.774	2.658	11.7	18.3
3 2	11 23.52	−15 37.5	1.710	2.646	8.8	18.1
3 12	11 15.35	−14 39.0	1.672	2.634	6.8	17.9
3 22	11 7.26	−13 19.6	1.660	2.622	7.2	17.9
4 1	11 0.27	−11 47.2	1.676	2.610	9.7	18.0
4 11	10 55.21	−10 11.4	1.715	2.598	12.9	18.2

362081 2009 BV_{123} 3 8.9 55°.65 0°.4/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.11	+ 0 38.7	1.344	2.160	18.7	21.8
2 11	11 39.45	+ 1 3.3	1.282	2.175	14.5	21.5
2 21	11 32.94	+ 1 47.6	1.240	2.190	9.6	21.3
3 2	11 24.38	+ 2 46.5	1.221	2.205	4.1	21.0
3 12	11 15.03	+ 3 51.5	1.228	2.221	1.6	20.9
3 22	11 6.26	+ 4 53.5	1.262	2.237	7.0	21.3
4 1	10 59.27	+ 5 44.3	1.320	2.253	11.9	21.6
4 11	10 54.90	+ 6 18.6	1.399	2.270	16.0	21.9

437361 2013 UO_2 3 8.9 198°.09 17°.3/25.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	12 3.82	+40 30.3	1.250	2.056	20.4	21.3
2 11	11 56.84	+42 28.7	1.208	2.055	18.5	21.1
2 21	11 44.97	+44 3.4	1.185	2.053	17.4	21.0
3 2	11 29.50	+44 55.4	1.181	2.051	17.5	21.0
3 12	11 12.84	+44 52.3	1.197	2.048	18.8	21.1
3 22	10 57.63	+43 52.3	1.232	2.045	20.9	21.2
4 1	10 45.93	+42 3.3	1.283	2.042	23.2	21.4
4 11	10 38.74	+39 38.2	1.349	2.038	25.4	21.6

363784 2005 GN_{131} 3 8.9 240°.65 1°.5/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.43	+ 5 43.0	1.970	2.775	13.9	22.3
2 11	11 39.15	+ 6 25.4	1.872	2.762	10.7	22.0
2 21	11 32.58	+ 7 20.2	1.797	2.748	7.0	21.8
3 2	11 24.26	+ 8 22.3	1.749	2.734	2.9	21.5
3 12	11 15.05	+ 9 25.0	1.730	2.719	2.6	21.4
3 22	11 5.96	+10 21.2	1.740	2.703	6.7	21.7
4 1	10 58.02	+11 5.0	1.777	2.687	10.8	21.9
4 11	10 52.04	+11 32.8	1.837	2.671	14.4	22.1

135240 2001 SJ_{10} 3 8.9 124°.72 1°.0/ 7.7 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.23	+ 5 32.3	2.644	3.439	11.1	20.9
2 11	11 35.90	+ 6 11.2	2.567	3.452	8.4	20.7
2 21	11 30.01	+ 6 58.2	2.515	3.464	5.4	20.5
3 2	11 23.04	+ 7 49.5	2.492	3.476	2.2	20.3
3 12	11 15.64	+ 8 40.2	2.499	3.488	1.8	20.3
3 22	11 8.49	+ 9 25.9	2.536	3.499	4.9	20.6
4 1	11 2.23	+10 2.8	2.602	3.510	7.9	20.8
4 11	10 57.38	+10 28.5	2.693	3.521	10.5	21.0

382282 2012 TL_{291} 3 8.9 93°.85 1°.1/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.93	− 2 22.3	2.171	2.951	13.6	20.8
2 11	11 35.30	− 1 47.5	2.088	2.960	10.7	20.6
2 21	11 29.81	− 0 56.7	2.029	2.968	7.2	20.4
3 2	11 23.01	+ 0 6.7	1.996	2.976	3.5	20.2
3 12	11 15.64	+ 1 17.5	1.993	2.985	1.3	20.1
3 22	11 8.54	+ 2 29.2	2.018	2.993	4.8	20.3
4 1	11 2.47	+ 3 35.5	2.072	3.001	8.4	20.6
4 11	10 58.05	+ 4 31.4	2.150	3.009	11.7	20.8

80411 1999 XM_{198} 3 8.9 329°.37 4°.9/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 46.61	+12 51.8	1.242	2.084	18.3	18.9
2 11	11 42.73	+13 30.3	1.169	2.079	14.1	18.6
2 21	11 35.46	+14 16.6	1.117	2.074	9.4	18.3
3 2	11 25.58	+15 1.6	1.088	2.069	5.4	18.1
3 12	11 14.50	+15 34.8	1.084	2.065	6.1	18.1
3 22	11 3.89	+15 48.1	1.104	2.061	10.6	18.4
4 1	10 55.33	+15 37.5	1.147	2.057	15.4	18.6
4 11	10 49.85	+15 3.5	1.209	2.054	19.7	18.9

201443 2003 EO_{35} 3 8.9 334°.25 4°.9/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.01	− 5 56.0	1.341	2.131	20.0	19.6
2 11	11 40.56	− 6 36.4	1.257	2.126	16.4	19.3
2 21	11 34.02	− 6 54.8	1.191	2.122	12.1	19.0
3 2	11 25.00	− 6 50.1	1.148	2.117	7.5	18.8
3 12	11 14.72	− 6 24.6	1.128	2.113	4.9	18.6
3 22	11 4.68	− 5 44.3	1.134	2.110	7.5	18.7
4 1	10 56.35	− 4 57.9	1.164	2.107	12.2	19.0
4 11	10 50.82	− 4 14.5	1.216	2.104	16.6	19.2

15003 Midori 3 8.9 212°.40 3°.5/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.21	− 9 43.2	2.554	3.288	13.0	18.2
2 11	11 35.36	− 9 38.7	2.451	3.283	10.7	18.0
2 21	11 29.82	− 9 17.2	2.371	3.279	8.0	17.8
3 2	11 23.03	− 8 39.3	2.316	3.274	5.3	17.6
3 12	11 15.64	− 7 47.6	2.290	3.269	3.5	17.5
3 22	11 8.37	− 6 46.5	2.293	3.264	4.7	17.6
4 1	11 1.95	− 5 41.6	2.325	3.258	7.4	17.7
4 11	10 56.97	− 4 38.4	2.383	3.252	10.3	17.9

9852 Gora 3 8.9 64°.86 1°.2/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.38	+ 5 55.9	1.589	2.405	16.3	18.1
2 11	11 40.78	+ 6 16.1	1.524	2.419	12.4	17.9
2 21	11 33.62	+ 6 47.7	1.480	2.433	8.0	17.6
3 2	11 24.63	+ 7 25.4	1.462	2.448	3.3	17.4
3 12	11 14.97	+ 8 2.4	1.472	2.462	2.4	17.4
3 22	11 5.83	+ 8 32.3	1.509	2.477	6.9	17.7
4 1	10 58.30	+ 8 50.4	1.571	2.492	11.3	18.0
4 11	10 53.14	+ 8 54.0	1.656	2.507	14.9	18.2

203535 2002 CW_{21} 3 8.9 89°.95 1°.5/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.54	+ 4 22.9	1.520	2.336	16.9	20.4
2 11	11 40.23	+ 5 13.5	1.458	2.353	12.9	20.2
2 21	11 33.30	+ 6 19.3	1.417	2.370	8.2	20.0
3 2	11 24.51	+ 7 33.3	1.401	2.386	3.3	19.7
3 12	11 15.02	+ 8 46.5	1.413	2.403	2.7	19.7
3 22	11 6.08	+ 9 50.0	1.452	2.419	7.4	20.1
4 1	10 58.79	+10 37.5	1.517	2.435	11.8	20.4
4 11	10 53.91	+11 5.7	1.604	2.450	15.5	20.6

363271 2002 GR_{12} 3 8.9 342°.20 2°.1/10.6 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 36.35	− 3 14.4	1.218	2.038	19.9	20.4
2 11	11 34.83	− 2 59.8	1.136	2.029	15.9	20.1
2 21	11 30.34	− 2 18.1	1.072	2.020	11.1	19.8
3 2	11 23.48	− 1 11.9	1.031	2.012	5.6	19.4
3 12	11 15.42	+ 0 11.4	1.013	2.005	2.3	19.2
3 22	11 7.62	+ 1 40.5	1.019	1.999	7.3	19.5
4 1	11 1.49	+ 3 3.2	1.049	1.994	12.8	19.8
4 11	10 58.10	+ 4 9.4	1.098	1.991	17.7	20.0

246004 2006 TO_{12} 3 8.9 128°.88 0°.7/ 9.8 17

2 1	11 37.73	− 1 31.0	2.466	3.245	12.2	20.9
2 11	11 34.19	− 0 50.0	2.378	3.249	9.6	20.7
2 21	11 29.02	+ 0 5.1	2.314	3.254	6.4	20.5
3 2	11 22.68	+ 1 11.0	2.277	3.258	2.9	20.3
3 12	11 15.83	+ 2 22.7	2.270	3.262	1.1	20.1
3 22	11 9.17	+ 3 34.6	2.292	3.266	4.5	20.4
4 1	11 3.40	+ 4 41.0	2.344	3.270	7.8	20.6
4 11	10 59.07	+ 5 37.5	2.421	3.273	10.7	20.8

227858 2007 DE_{72} 3 8.9 46°.57 1°.2/ 8.2 18

2 1	11 44.40	+ 4 12.5	1.105	1.942	20.4	20.3
2 11	11 40.94	+ 4 40.8	1.051	1.957	15.7	20.0
2 21	11 34.14	+ 5 27.6	1.016	1.972	10.1	19.8
3 2	11 24.94	+ 6 25.4	1.003	1.989	4.1	19.5
3 12	11 14.87	+ 7 23.9	1.014	2.006	2.7	19.4
3 22	11 5.55	+ 8 12.9	1.050	2.023	8.5	19.8
4 1	10 58.43	+ 8 45.1	1.109	2.041	13.8	20.2
4 11	10 54.34	+ 8 57.0	1.187	2.059	18.2	20.5

455714 2005 GL_{18} 3 8.9 332°.70 5°.0/ 4.9 18

2 1	11 39.93	+11 54.5	1.345	2.192	16.9	20.6
2 11	11 37.37	+13 3.9	1.269	2.182	12.9	20.4
2 21	11 31.86	+14 24.5	1.215	2.173	8.6	20.1
3 2	11 24.07	+15 46.7	1.184	2.164	5.3	19.9
3 12	11 15.19	+16 58.4	1.179	2.156	6.4	19.9
3 22	11 6.64	+17 49.8	1.198	2.149	10.6	20.1
4 1	10 59.77	+18 14.8	1.239	2.142	15.1	20.4
4 11	10 55.57	+18 12.2	1.300	2.136	19.1	20.6

428493 2007 VA_{241} 3 8.9 50°.70 14°.5/21.9 18

2 1	11 58.42	+49 55.6	1.996	2.745	15.7	20.0
2 11	11 50.93	+51 20.6	1.986	2.765	14.9	19.9
2 21	11 40.10	+52 19.4	1.996	2.785	14.5	19.9
3 2	11 27.19	+52 42.8	2.026	2.806	14.7	20.0
3 12	11 13.98	+52 26.4	2.076	2.827	15.4	20.1
3 22	11 2.13	+51 31.7	2.144	2.848	16.4	20.2
4 1	10 52.91	+50 3.8	2.229	2.869	17.5	20.3
4 11	10 46.90	+48 10.5	2.329	2.890	18.4	20.5

238038 2002 XX_{76} 3 8.9 118°.08 1°.3/ 7.4 16

2 1	11 42.08	+ 7 0.5	2.743	3.537	10.7	21.6
2 11	11 37.20	+ 7 35.0	2.672	3.556	8.1	21.5
2 21	11 30.80	+ 8 16.0	2.626	3.575	5.2	21.3
3 2	11 23.37	+ 8 59.7	2.609	3.593	2.2	21.1
3 12	11 15.56	+ 9 41.7	2.623	3.611	2.0	21.1
3 22	11 8.03	+10 18.0	2.668	3.628	4.9	21.3
4 1	11 1.42	+10 45.5	2.741	3.645	7.7	21.5
4 11	10 56.22	+11 2.2	2.840	3.661	10.2	21.7

242458 2004 RM_{158} 3 8.9 178°.35 1°.3/10.2 17

2 1	11 40.22	− 2 11.9	1.958	2.743	14.8	21.0
2 11	11 36.57	− 1 46.5	1.869	2.743	11.6	20.8
2 21	11 30.82	− 1 3.8	1.803	2.743	7.9	20.5
3 2	11 23.50	− 0 6.8	1.763	2.743	3.9	20.3
3 12	11 15.47	+ 0 59.0	1.751	2.743	1.5	20.1
3 22	11 7.66	+ 2 6.8	1.768	2.743	5.3	20.4
4 1	11 1.01	+ 3 9.8	1.812	2.743	9.3	20.6
4 11	10 56.21	+ 4 2.2	1.880	2.743	12.9	20.8

354942 2006 EC_{50} 3 8.9 103°.26 2°.3/ 6.9 18

2 1	11 47.19	+ 7 0.6	1.655	2.467	15.9	21.3
2 11	11 42.00	+ 7 55.7	1.596	2.490	12.0	21.1
2 21	11 34.31	+ 9 2.0	1.559	2.512	7.7	20.9
3 2	11 24.91	+10 12.3	1.550	2.534	3.4	20.7
3 12	11 14.91	+11 17.9	1.568	2.555	3.4	20.7
3 22	11 5.49	+12 11.4	1.615	2.576	7.5	21.0
4 1	10 57.70	+12 48.0	1.688	2.595	11.5	21.3
4 11	10 52.25	+13 5.6	1.784	2.615	14.9	21.6

264082 2009 SO_{240} 3 8.9 255°.77 7°.8/15.8 17

2 1	11 43.41	−16 59.8	1.991	2.692	17.2	20.6
2 11	11 39.30	−17 53.0	1.889	2.684	14.9	20.4
2 21	11 32.81	−18 24.3	1.805	2.675	12.3	20.2
3 2	11 24.43	−18 30.3	1.744	2.666	9.7	20.0
3 12	11 15.04	−18 10.4	1.708	2.657	8.0	19.8
3 22	11 5.69	−17 27.3	1.699	2.647	8.2	19.8
4 1	10 57.47	−16 27.0	1.715	2.638	10.3	19.9
4 11	10 51.29	−15 18.1	1.756	2.628	13.2	20.1

418960 2009 FG_{76} 3 8.9 294°.97 5°.8/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 43.86	+15 26.7	1.539	2.376	15.6	20.8
2 11	11 40.12	+16 31.7	1.459	2.364	12.1	20.5
2 21	11 33.54	+17 42.8	1.400	2.352	8.4	20.3
3 2	11 24.76	+18 50.5	1.367	2.340	5.9	20.1
3 12	11 14.92	+19 44.4	1.360	2.329	7.1	20.1
3 22	11 5.36	+20 16.6	1.378	2.317	10.7	20.3
4 1	10 57.40	+20 23.1	1.420	2.306	14.7	20.5
4 11	10 51.98	+20 3.8	1.481	2.294	18.3	20.7

300054 2006 UH_{173} 3 8.9 173°.28 0°.6/ 8.1 17

2 1	11 39.21	+ 4 30.9	2.969	3.758	10.1	22.5
2 11	11 35.03	+ 5 5.3	2.880	3.761	7.7	22.3
2 21	11 29.44	+ 5 47.7	2.815	3.763	5.0	22.1
3 2	11 22.84	+ 6 34.9	2.780	3.764	2.0	21.9
3 12	11 15.80	+ 7 22.8	2.775	3.766	1.4	21.9
3 22	11 8.93	+ 8 7.4	2.801	3.767	4.3	22.1
4 1	11 2.81	+ 8 45.2	2.856	3.767	7.2	22.3
4 11	10 57.93	+ 9 13.6	2.937	3.767	9.7	22.5

243109 Hansludwig 3 8.9 212°.39 0°.9/ 9.8 18

2 1	11 44.39	− 0 39.6	1.936	2.720	15.0	21.2
2 11	11 39.89	− 0 16.7	1.839	2.713	11.8	21.0
2 21	11 33.08	+ 0 22.5	1.765	2.706	8.0	20.8
3 2	11 24.50	+ 1 15.2	1.717	2.698	3.7	20.5
3 12	11 15.05	+ 2 15.7	1.698	2.690	1.4	20.3
3 22	11 5.75	+ 3 17.5	1.708	2.681	5.7	20.6
4 1	10 57.65	+ 4 13.7	1.745	2.671	10.0	20.8
4 11	10 51.55	+ 4 58.8	1.807	2.661	13.7	21.0

424773 2008 TK_{94} 3 8.9 163°.29 2°.0/ 6.8 17

2 1	11 42.20	+ 8 30.1	2.293	3.100	12.2	21.3
2 11	11 37.72	+ 9 11.2	2.211	3.103	9.3	21.1
2 21	11 31.38	+10 0.0	2.154	3.106	5.9	20.9
3 2	11 23.69	+10 51.4	2.125	3.109	2.7	20.7
3 12	11 15.43	+11 39.7	2.126	3.111	2.9	20.7
3 22	11 7.43	+12 19.9	2.156	3.113	6.1	20.9
4 1	11 0.47	+12 48.0	2.213	3.115	9.4	21.1
4 11	10 55.18	+13 2.1	2.295	3.117	12.3	21.3

375283 2008 KZ_{12} 3 8.9 277°.87 0°.6/ 8.4 17

2 1	11 41.10	+ 3 1.5	1.841	2.647	14.8	21.8
2 11	11 37.56	+ 3 36.7	1.741	2.630	11.5	21.5
2 21	11 31.68	+ 4 27.2	1.663	2.613	7.5	21.2
3 2	11 23.96	+ 5 28.7	1.610	2.595	3.1	20.9
3 12	11 15.28	+ 6 34.5	1.586	2.578	1.8	20.8
3 22	11 6.69	+ 7 37.3	1.590	2.560	6.5	21.0
4 1	10 59.26	+ 8 30.0	1.620	2.542	10.9	21.3
4 11	10 53.85	+ 9 7.6	1.673	2.524	14.8	21.5

383806 2007 YN_{69} 3 8.9 23°.13 2°.4/ 6.1 17

2 1	11 38.61	+ 9 15.8	2.302	3.117	11.9	20.6
2 11	11 35.01	+10 10.1	2.221	3.118	9.0	20.4
2 21	11 29.63	+11 12.0	2.165	3.119	5.8	20.2
3 2	11 22.97	+12 16.2	2.137	3.120	2.9	20.0
3 12	11 15.76	+13 16.5	2.138	3.121	3.3	20.0
3 22	11 8.77	+14 7.3	2.168	3.122	6.4	20.2
4 1	11 2.76	+14 44.5	2.225	3.123	9.6	20.4
4 11	10 58.33	+15 6.0	2.305	3.124	12.4	20.6

73231 2002 JY_{28} 3 8.9 298°.33 1°.9/10.6 18

2 1	11 40.71	− 3 28.1	1.568	2.363	17.4	19.7
2 11	11 37.52	− 3 5.2	1.482	2.360	13.9	19.4
2 21	11 31.75	− 2 20.0	1.416	2.357	9.6	19.1
3 2	11 24.00	− 1 15.1	1.375	2.354	4.9	18.9
3 12	11 15.30	+ 0 2.9	1.360	2.351	2.0	18.7
3 22	11 6.85	+ 1 25.1	1.372	2.349	6.2	18.9
4 1	10 59.82	+ 2 42.0	1.409	2.346	11.0	19.2
4 11	10 55.09	+ 3 45.8	1.470	2.344	15.2	19.4

206795 2004 DD_{31} 3 8.9 76°.22 0°.5/ 9.4 18

2 1	11 43.44	+ 2 0.9	2.158	2.946	13.5	20.5
2 11	11 38.68	+ 2 4.5	2.083	2.960	10.4	20.3
2 21	11 31.99	+ 2 19.0	2.031	2.974	6.9	20.1
3 2	11 23.94	+ 2 41.5	2.006	2.988	3.0	19.9
3 12	11 15.36	+ 3 7.9	2.010	3.002	1.1	19.8
3 22	11 7.12	+ 3 33.8	2.044	3.016	5.0	20.1
4 1	11 0.04	+ 3 55.0	2.105	3.030	8.6	20.3
4 11	10 54.71	+ 4 8.2	2.191	3.044	11.7	20.5

337323 2001 CV_{14} 3 8.9 11°.79 2°.3/ 7.5 18

2 1	11 46.07	+ 7 21.3	1.213	2.048	19.1	20.0
2 11	11 42.28	+ 7 45.6	1.143	2.048	14.7	19.8
2 21	11 35.16	+ 8 23.6	1.092	2.049	9.5	19.5
3 2	11 25.49	+ 9 8.5	1.065	2.050	4.1	19.2
3 12	11 14.68	+ 9 50.6	1.062	2.051	3.6	19.1
3 22	11 4.37	+10 21.3	1.084	2.053	9.0	19.4
4 1	10 56.09	+10 34.6	1.130	2.055	14.2	19.7
4 11	10 50.86	+10 27.8	1.195	2.057	18.8	20.0

21046 1990 SH_3 3 8.9 188°.55 1°.9/ 6.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.16	+ 9 35.4	3.091	3.891	9.5	19.8
2 11	11 35.73	+10 19.2	3.001	3.890	7.2	19.7
2 21	11 29.89	+11 8.3	2.938	3.888	4.6	19.5
3 2	11 23.05	+11 58.7	2.904	3.886	2.3	19.3
3 12	11 15.76	+12 46.3	2.901	3.883	2.5	19.3
3 22	11 8.63	+13 27.1	2.928	3.880	5.0	19.5
4 1	11 2.23	+13 58.1	2.984	3.876	7.6	19.7
4 11	10 57.05	+14 17.7	3.066	3.872	9.9	19.8

490935 2011 CJ_{78} 3 8.9 266°.48 3°.1/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.96	− 5 45.8	2.057	2.820	14.9	21.5
2 11	11 38.01	− 5 51.1	1.949	2.804	12.1	21.3
2 21	11 31.88	− 5 39.1	1.862	2.787	8.8	21.1
3 2	11 24.04	− 5 10.3	1.801	2.771	5.2	20.8
3 12	11 15.29	− 4 27.7	1.767	2.754	3.1	20.6
3 22	11 6.58	− 3 36.2	1.762	2.736	5.4	20.8
4 1	10 58.90	− 2 42.1	1.784	2.719	9.2	20.9
4 11	10 53.05	− 1 52.0	1.831	2.701	12.8	21.1

115388 2003 SN_{278} 3 8.9 272°.61 3°.8/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.73	− 5 45.0	1.672	2.447	17.3	19.9
2 11	11 39.90	− 6 2.7	1.570	2.432	14.1	19.6
2 21	11 33.41	− 6 0.6	1.488	2.416	10.3	19.3
3 2	11 24.77	− 5 38.5	1.430	2.401	6.2	19.1
3 12	11 14.96	− 4 59.3	1.399	2.385	3.8	18.9
3 22	11 5.19	− 4 8.6	1.394	2.370	6.5	19.0
4 1	10 56.71	− 3 14.2	1.416	2.354	10.9	19.2
4 11	10 50.55	− 2 23.9	1.461	2.338	15.1	19.4

405184 2003 AC_{15} 3 8.9 83°.10 7°.0/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.21	−17 50.4	1.908	2.605	18.0	20.4
2 11	11 40.33	−18 12.5	1.842	2.635	15.3	20.3
2 21	11 33.18	−18 8.1	1.795	2.666	12.3	20.1
3 2	11 24.47	−17 36.2	1.770	2.696	9.3	20.0
3 12	11 15.19	−16 39.3	1.771	2.725	7.3	19.9
3 22	11 6.38	−15 23.3	1.799	2.754	7.4	20.0
4 1	10 59.00	−13 56.6	1.855	2.782	9.4	20.2
4 11	10 53.71	−12 28.6	1.935	2.809	12.1	20.4

199347 2006 BA_{162} 3 8.9 53°.51 4°.6/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.78	+11 23.3	1.295	2.135	17.8	20.1
2 11	11 40.95	+12 22.8	1.236	2.145	13.5	19.9
2 21	11 34.05	+13 31.7	1.198	2.155	8.9	19.7
3 2	11 24.94	+14 40.2	1.185	2.166	5.0	19.5
3 12	11 14.98	+15 37.3	1.196	2.177	5.8	19.5
3 22	11 5.65	+16 14.6	1.233	2.188	10.0	19.8
4 1	10 58.27	+16 28.0	1.294	2.199	14.4	20.1
4 11	10 53.69	+16 17.1	1.373	2.211	18.2	20.4

26450 Tanyapetach 3 8.9 62°.35 1°.1/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.80	+ 3 49.3	1.584	2.400	16.3	19.6
2 11	11 38.18	+ 4 32.7	1.512	2.407	12.5	19.3
2 21	11 32.06	+ 5 31.7	1.461	2.414	8.1	19.1
3 2	11 24.09	+ 6 40.3	1.435	2.421	3.3	18.8
3 12	11 15.34	+ 7 50.1	1.437	2.428	2.3	18.8
3 22	11 6.98	+ 8 52.8	1.466	2.435	7.0	19.1
4 1	11 0.11	+ 9 41.5	1.520	2.442	11.5	19.4
4 11	10 55.52	+10 12.2	1.596	2.449	15.3	19.6

164663 1996 TQ_{13} 3 8.9 124°.74 0°.6/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.91	+ 3 30.2	1.833	2.631	15.1	21.5
2 11	11 40.92	+ 4 3.9	1.761	2.646	11.6	21.3
2 21	11 33.63	+ 4 50.7	1.712	2.660	7.5	21.0
3 2	11 24.69	+ 5 45.6	1.689	2.674	3.0	20.8
3 12	11 15.10	+ 6 42.0	1.695	2.687	1.8	20.7
3 22	11 5.93	+ 7 33.1	1.730	2.699	6.2	21.0
4 1	10 58.16	+ 8 13.4	1.792	2.711	10.3	21.3
4 11	10 52.51	+ 8 39.5	1.878	2.722	13.7	21.5

77169 2001 ER_{22} 3 8.9 333°.62 0°.5/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.59	+ 1 45.7	1.342	2.170	18.0	19.3
2 11	11 35.55	+ 2 26.8	1.258	2.159	14.0	19.0
2 21	11 30.71	+ 3 29.6	1.194	2.149	9.2	18.7
3 2	11 23.65	+ 4 48.8	1.154	2.140	3.8	18.3
3 12	11 15.49	+ 6 14.9	1.139	2.131	2.1	18.2
3 22	11 7.56	+ 7 37.0	1.149	2.123	7.7	18.5
4 1	11 1.19	+ 8 44.8	1.183	2.116	13.0	18.8
4 11	10 57.36	+ 9 31.6	1.237	2.109	17.6	19.0

130647 2000 SG_{75} 3 8.9 142°.75 1°.8/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 46.07	+ 6 33.5	1.968	2.770	14.1	20.3
2 11	11 40.92	+ 7 22.1	1.894	2.783	10.7	20.1
2 21	11 33.58	+ 8 21.3	1.844	2.795	6.9	19.9
3 2	11 24.66	+ 9 25.1	1.822	2.806	2.9	19.6
3 12	11 15.12	+10 26.5	1.829	2.816	2.8	19.7
3 22	11 5.95	+11 18.9	1.865	2.826	6.6	19.9
4 1	10 58.10	+11 57.7	1.929	2.835	10.4	20.2
4 11	10 52.25	+12 20.2	2.017	2.843	13.6	20.4

506098 2016 AS_{109} 3 8.9 27°.75 4°.8/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 47.74	− 5 3.6	1.468	2.248	19.1	20.3
2 11	11 43.11	− 6 0.5	1.389	2.252	15.5	20.0
2 21	11 35.51	− 6 39.3	1.329	2.256	11.4	19.8
3 2	11 25.62	− 6 58.5	1.292	2.260	7.1	19.6
3 12	11 14.67	− 6 59.7	1.281	2.265	4.8	19.4
3 22	11 4.05	− 6 46.9	1.297	2.270	7.2	19.6
4 1	10 55.14	− 6 26.7	1.338	2.276	11.4	19.8
4 11	10 48.91	− 6 6.2	1.401	2.281	15.4	20.1

344124 1999 VB_{212} 3 8.9 95°.73 2°.0/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.59	+ 5 57.8	1.358	2.184	18.0	21.2
2 11	11 41.51	+ 6 38.3	1.290	2.190	13.8	20.9
2 21	11 34.44	+ 7 33.8	1.242	2.197	8.9	20.7
3 2	11 25.14	+ 8 37.3	1.218	2.203	3.7	20.4
3 12	11 14.90	+ 9 39.1	1.221	2.210	3.2	20.4
3 22	11 5.17	+10 30.1	1.249	2.216	8.3	20.7
4 1	10 57.27	+11 3.7	1.302	2.222	13.1	21.0
4 11	10 52.10	+11 17.0	1.376	2.229	17.3	21.2

255741 2006 QA_{164} 3 8.9 239°.62 1°.7/10.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.76	− 2 14.8	1.940	2.718	15.1	21.8
2 11	11 39.49	− 2 4.8	1.837	2.706	12.0	21.6
2 21	11 32.89	− 1 38.0	1.757	2.694	8.3	21.4
3 2	11 24.49	− 0 56.4	1.702	2.680	4.2	21.1
3 12	11 15.15	− 0 4.5	1.675	2.667	1.8	20.9
3 22	11 5.90	+ 0 51.7	1.678	2.653	5.6	21.1
4 1	10 57.79	+ 1 45.3	1.707	2.638	9.8	21.3
4 11	10 51.67	+ 2 30.5	1.761	2.623	13.7	21.5

499805 2011 CB_{90} 3 8.9 349°.56 0°.6/ 9.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 39.97	− 0 1.4	1.768	2.568	15.5	21.8
2 11	11 36.63	+ 0 25.1	1.683	2.566	12.1	21.6
2 21	11 31.00	+ 1 8.8	1.619	2.565	8.1	21.4
3 2	11 23.66	+ 2 5.9	1.581	2.564	3.6	21.1
3 12	11 15.54	+ 3 10.0	1.571	2.563	1.3	20.9
3 22	11 7.66	+ 4 13.9	1.588	2.562	5.9	21.2
4 1	11 1.04	+ 5 10.3	1.631	2.562	10.2	21.5
4 11	10 56.46	+ 5 53.9	1.698	2.562	14.0	21.7

389245 2009 FD_{31} 3 8.9 15°.94 3°.6/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 34.34	−10 16.9	1.769	2.535	16.8	20.2
2 11	11 32.27	− 9 40.2	1.687	2.541	13.7	19.9
2 21	11 28.11	− 8 36.9	1.626	2.548	10.1	19.7
3 2	11 22.43	− 7 9.3	1.589	2.555	6.2	19.5
3 12	11 16.08	− 5 23.5	1.578	2.564	3.6	19.4
3 22	11 10.03	− 3 28.8	1.596	2.573	5.5	19.5
4 1	11 5.16	− 1 35.4	1.640	2.583	9.2	19.7
4 11	11 2.16	+ 0 7.5	1.709	2.594	12.8	20.0

382714 2002 XJ_2 3 8.9 25°.69 7°.5/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 36.66	−18 5.2	1.751	2.470	18.6	19.8
2 11	11 34.14	−18 26.3	1.676	2.482	16.0	19.7
2 21	11 29.37	−18 18.7	1.618	2.495	13.0	19.5
3 2	11 22.97	−17 40.9	1.581	2.509	10.0	19.3
3 12	11 15.86	−16 35.2	1.568	2.524	7.8	19.2
3 22	11 9.08	−15 7.9	1.581	2.540	7.8	19.3
4 1	11 3.61	−13 28.2	1.619	2.556	9.8	19.4
4 11	11 0.15	−11 46.7	1.682	2.573	12.7	19.6

166332 2002 JB_{95} 3 8.9 332°.71 1°.9/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.02	+ 6 20.0	1.267	2.105	18.2	19.7
2 11	11 38.42	+ 6 43.4	1.185	2.093	14.1	19.4
2 21	11 32.71	+ 7 22.0	1.124	2.081	9.2	19.1
3 2	11 24.54	+ 8 9.8	1.085	2.071	3.9	18.7
3 12	11 15.14	+ 8 57.8	1.071	2.061	3.2	18.6
3 22	11 6.01	+ 9 37.0	1.081	2.052	8.6	18.9
4 1	10 58.61	+ 9 59.9	1.115	2.044	14.0	19.2
4 11	10 54.04	+10 2.7	1.167	2.037	18.6	19.4

291117 2005 YJ_{186} 3 8.9 75°.29 11°.5/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 57.10	−13 6.8	1.152	1.904	24.9	20.8
2 11	11 51.34	−15 28.6	1.085	1.914	21.4	20.5
2 21	11 41.49	−17 26.4	1.034	1.926	17.4	20.3
3 2	11 28.33	−18 50.3	1.003	1.937	13.7	20.1
3 12	11 13.51	−19 34.4	0.995	1.948	11.6	20.0
3 22	10 59.13	−19 39.7	1.011	1.959	12.4	20.1
4 1	10 47.23	−19 14.5	1.049	1.971	15.4	20.3
4 11	10 39.15	−18 32.7	1.107	1.982	19.0	20.6

35285 1996 TR_5 3 8.9 180°.32 1°.4/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 53.76	+ 0 49.8	2.133	2.897	14.4	19.2
2 11	11 46.80	+ 0 25.7	2.037	2.899	11.4	19.0
2 21	11 37.47	+ 0 11.8	1.965	2.900	7.8	18.7
3 2	11 26.35	+ 0 6.8	1.921	2.900	3.8	18.5
3 12	11 14.40	+ 0 8.0	1.908	2.899	1.7	18.3
3 22	11 2.70	+ 0 12.0	1.927	2.898	5.4	18.6
4 1	10 52.29	+ 0 15.2	1.975	2.896	9.3	18.8
4 11	10 43.97	+ 0 14.2	2.049	2.893	12.7	19.0

138762 2000 SR_{287} 3 8.9 235°.15 2°.6/ 5.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 41.53	+11 53.0	2.704	3.512	10.5	20.5
2 11	11 37.05	+12 30.4	2.609	3.501	8.0	20.3
2 21	11 30.91	+13 12.2	2.540	3.490	5.3	20.1
3 2	11 23.55	+13 54.2	2.500	3.479	2.9	19.9
3 12	11 15.62	+14 31.4	2.489	3.468	3.3	19.9
3 22	11 7.85	+14 59.9	2.509	3.457	6.0	20.1
4 1	11 0.92	+15 16.5	2.556	3.445	8.8	20.2
4 11	10 55.41	+15 19.9	2.627	3.432	11.4	20.4

472163 2014 DP_{24} 3 8.9 286°.60 1°.1/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.44	+ 0 56.2	2.394	3.173	12.6	20.7
2 11	11 38.71	+ 0 44.0	2.294	3.165	9.9	20.5
2 21	11 32.10	+ 0 41.6	2.218	3.157	6.7	20.3
3 2	11 24.08	+ 0 47.3	2.169	3.149	3.2	20.1
3 12	11 15.39	+ 0 58.3	2.150	3.142	1.3	19.9
3 22	11 6.84	+ 1 11.2	2.160	3.134	4.7	20.2
4 1	10 59.24	+ 1 22.4	2.199	3.126	8.2	20.4
4 11	10 53.25	+ 1 28.6	2.264	3.119	11.3	20.5

436495 2011 EB_{63} 3 8.9 199°.72 4°.0/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.16	+12 19.8	2.245	3.064	12.0	21.1
2 11	11 36.35	+13 51.1	2.163	3.062	9.1	20.9
2 21	11 30.61	+15 29.9	2.107	3.059	6.1	20.7
3 2	11 23.46	+17 8.8	2.081	3.056	4.0	20.6
3 12	11 15.66	+18 39.6	2.083	3.052	5.0	20.6
3 22	11 8.05	+19 55.4	2.115	3.048	7.9	20.8
4 1	11 1.46	+20 51.6	2.174	3.044	11.0	21.0
4 11	10 56.54	+21 26.5	2.254	3.039	13.7	21.2

243839 2000 UZ_{81} 3 8.9 170°.59 3°.7/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 38.29	−11 53.7	2.872	3.587	12.1	20.9
2 11	11 34.48	−11 46.6	2.772	3.590	10.1	20.7
2 21	11 29.18	−11 23.1	2.695	3.592	7.7	20.6
3 2	11 22.81	−10 43.7	2.644	3.593	5.3	20.4
3 12	11 15.96	− 9 51.0	2.622	3.595	3.7	20.3
3 22	11 9.25	− 8 48.7	2.629	3.596	4.5	20.4
4 1	11 3.30	− 7 41.8	2.665	3.597	6.7	20.5
4 11	10 58.63	− 6 35.5	2.729	3.598	9.1	20.7

459989 2014 OX_{38} 3 8.9 175°.68 0°.5/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 46.17	+ 1 5.7	1.801	2.592	15.6	22.2
2 11	11 41.35	+ 1 20.6	1.715	2.594	12.2	22.0
2 21	11 34.07	+ 1 50.4	1.652	2.596	8.1	21.7
3 2	11 24.97	+ 2 31.6	1.614	2.597	3.6	21.5
3 12	11 15.02	+ 3 18.7	1.605	2.598	1.3	21.3
3 22	11 5.36	+ 4 5.3	1.625	2.598	6.0	21.6
4 1	10 57.07	+ 4 45.0	1.671	2.597	10.3	21.8
4 11	10 50.95	+ 5 13.4	1.741	2.596	14.1	22.1

160503 2007 HX_{17} 3 8.9 206°.20 1°.9/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 40.74	+ 7 18.6	2.518	3.319	11.4	20.6
2 11	11 36.56	+ 8 19.3	2.424	3.314	8.6	20.4
2 21	11 30.65	+ 9 29.2	2.357	3.308	5.5	20.2
3 2	11 23.46	+10 43.5	2.318	3.301	2.5	20.0
3 12	11 15.68	+11 55.9	2.309	3.294	2.8	20.0
3 22	11 8.03	+13 0.8	2.331	3.286	5.9	20.2
4 1	11 1.27	+13 53.5	2.381	3.278	9.1	20.4
4 11	10 56.00	+14 31.1	2.455	3.269	11.9	20.5

17589 1995 BR_{10} 3 8.9 267°.32 3°.8/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 42.11	+ 9 19.2	1.559	2.389	15.8	18.2
2 11	11 38.74	+10 32.0	1.474	2.378	12.1	18.0
2 21	11 32.66	+11 58.4	1.411	2.367	7.9	17.7
3 2	11 24.47	+13 30.0	1.374	2.356	4.2	17.4
3 12	11 15.23	+14 56.0	1.364	2.345	5.1	17.4
3 22	11 6.20	+16 6.6	1.380	2.333	9.3	17.7
4 1	10 58.63	+16 54.6	1.421	2.322	13.7	17.9
4 11	10 53.48	+17 17.3	1.483	2.311	17.6	18.1

229172 2004 TR_{138} 3 8.9 201°.52 4°.3/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 41.44	−10 4.1	2.119	2.860	15.2	20.7
2 11	11 37.46	−10 14.2	2.023	2.858	12.6	20.5
2 21	11 31.43	−10 4.8	1.948	2.857	9.5	20.3
3 2	11 23.84	− 9 35.9	1.898	2.855	6.4	20.1
3 12	11 15.52	− 8 50.0	1.875	2.853	4.4	19.9
3 22	11 7.35	− 7 52.0	1.880	2.850	5.6	20.0
4 1	11 0.24	− 6 48.3	1.913	2.848	8.7	20.2
4 11	10 54.92	− 5 46.0	1.971	2.845	11.9	20.4

52450 1994 VL 3 8.9 67°.14 2°.2/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 47.13	+ 8 1.8	1.551	2.370	16.4	19.0
2 11	11 42.08	+ 8 33.4	1.497	2.394	12.5	18.8
2 21	11 34.44	+ 9 14.6	1.465	2.418	8.0	18.6
3 2	11 25.03	+ 9 58.7	1.458	2.443	3.5	18.4
3 12	11 15.07	+10 38.3	1.479	2.467	3.3	18.4
3 22	11 5.78	+11 7.0	1.528	2.491	7.5	18.7
4 1	10 58.22	+11 21.0	1.602	2.515	11.6	19.0
4 11	10 53.09	+11 18.8	1.698	2.539	15.1	19.3

161189 2002 TU_{179} 3 8.9 113°.79 7°.8/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 44.91	−18 3.8	1.964	2.657	17.6	20.2
2 11	11 40.31	−18 50.6	1.881	2.669	15.2	20.0
2 21	11 33.36	−19 13.3	1.817	2.681	12.5	19.9
3 2	11 24.67	−19 9.1	1.775	2.693	9.8	19.7
3 12	11 15.17	−18 38.5	1.758	2.704	8.0	19.6
3 22	11 5.95	−17 45.4	1.767	2.715	8.1	19.7
4 1	10 58.02	−16 36.9	1.804	2.725	10.0	19.8
4 11	10 52.17	−15 21.8	1.864	2.735	12.6	20.0

412530 2014 MN_{38} 3 8.9 194°.74 1°.2/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 46.04	− 0 24.6	1.817	2.602	15.7	22.0
2 11	11 41.29	− 0 16.4	1.727	2.601	12.4	21.8
2 21	11 34.08	+ 0 7.4	1.658	2.599	8.4	21.6
3 2	11 25.00	+ 0 44.3	1.616	2.596	4.0	21.3
3 12	11 15.03	+ 1 29.3	1.601	2.593	1.5	21.1
3 22	11 5.29	+ 2 16.1	1.615	2.590	5.9	21.4
4 1	10 56.88	+ 2 58.3	1.657	2.586	10.2	21.6
4 11	10 50.64	+ 3 30.7	1.722	2.581	14.1	21.8

406802 2008 UM_{46} 3 8.9 232°.28 3°.4/11.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 45.30	− 6 43.6	1.866	2.625	16.3	22.1
2 11	11 40.87	− 6 41.8	1.759	2.612	13.3	21.9
2 21	11 33.94	− 6 19.3	1.673	2.597	9.7	21.6
3 2	11 25.01	− 5 36.6	1.612	2.582	5.8	21.4
3 12	11 15.00	− 4 37.2	1.579	2.565	3.4	21.2
3 22	11 5.03	− 3 27.2	1.574	2.548	6.0	21.3
4 1	10 56.23	− 2 14.8	1.597	2.531	10.2	21.5
4 11	10 49.56	− 1 8.0	1.644	2.512	14.2	21.7

179811 2002 TU_{75} 3 8.9 72°.83 2°.0/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 50.33	+ 9 22.8	1.616	2.429	16.1	20.0
2 11	11 44.59	+ 9 26.1	1.549	2.443	12.4	19.8
2 21	11 36.14	+ 9 36.1	1.504	2.456	8.0	19.6
3 2	11 25.79	+ 9 47.8	1.485	2.470	3.5	19.4
3 12	11 14.75	+ 9 55.5	1.495	2.483	3.0	19.4
3 22	11 4.29	+ 9 54.6	1.532	2.497	7.3	19.6
4 1	10 55.57	+ 9 42.2	1.595	2.510	11.5	19.9
4 11	10 49.36	+ 9 17.3	1.681	2.524	15.1	20.2

132203 2002 EK_{52} 3 8.9 220°.53 1°.4/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.12	+ 4 42.8	1.553	2.370	16.5	20.2
2 11	11 39.38	+ 5 24.4	1.473	2.370	12.7	20.0
2 21	11 32.98	+ 6 21.3	1.415	2.369	8.2	19.7
3 2	11 24.57	+ 7 27.7	1.383	2.368	3.4	19.4
3 12	11 15.23	+ 8 34.9	1.377	2.367	2.6	19.3
3 22	11 6.22	+ 9 34.4	1.398	2.366	7.5	19.6
4 1	10 58.72	+10 19.2	1.445	2.365	12.1	19.9
4 11	10 53.61	+10 45.3	1.513	2.364	16.1	20.1

417592 2006 VL_{69} 3 8.9 151°.74 2°.5/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 43.25	− 5 57.0	2.189	2.944	14.3	21.3
2 11	11 38.66	− 5 44.0	2.101	2.952	11.5	21.1
2 21	11 32.09	− 5 13.6	2.036	2.960	8.2	20.9
3 2	11 24.09	− 4 27.6	1.997	2.968	4.7	20.7
3 12	11 15.45	− 3 30.1	1.987	2.975	2.5	20.5
3 22	11 7.07	− 2 26.6	2.006	2.981	4.9	20.7
4 1	10 59.78	− 1 23.6	2.055	2.986	8.4	20.9
4 11	10 54.24	− 0 26.8	2.128	2.991	11.6	21.1

5077 Favaloro 3 8.9 242°.78 1°.6/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 46.72	− 1 6.0	1.728	2.513	16.4	17.9
2 11	11 42.13	− 1 5.9	1.626	2.499	13.1	17.6
2 21	11 34.85	− 0 49.2	1.545	2.485	9.0	17.3
3 2	11 25.42	− 0 17.5	1.490	2.469	4.5	17.0
3 12	11 14.83	+ 0 24.6	1.462	2.454	1.9	16.8
3 22	11 4.31	+ 1 10.8	1.462	2.437	6.3	17.0
4 1	10 55.10	+ 1 54.1	1.489	2.420	11.0	17.3
4 11	10 48.19	+ 2 28.3	1.540	2.403	15.2	17.5

471156 2010 GZ_{73} 3 8.9 228°.03 7°.9/18.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 44.64	−26 25.3	3.194	3.782	13.1	21.7
2 11	11 39.50	−27 27.8	3.077	3.771	11.8	21.5
2 21	11 32.61	−28 13.3	2.980	3.759	10.4	21.4
3 2	11 24.35	−28 38.5	2.906	3.747	9.1	21.3
3 12	11 15.32	−28 42.1	2.857	3.735	8.2	21.2
3 22	11 6.24	−28 24.7	2.834	3.722	8.0	21.2
4 1	10 57.86	−27 49.1	2.838	3.709	8.7	21.2
4 11	10 50.83	−27 0.3	2.868	3.695	10.0	21.3

430809 2005 EE_{72} 3 8.9 335°.70 5°.1/ 4.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 1	11 37.43	+13 21.5	1.516	2.362	15.3	20.4
2 11	11 35.24	+14 25.9	1.431	2.343	11.8	20.1
2 21	11 30.42	+15 39.3	1.368	2.325	8.0	19.9
3 2	11 23.56	+16 52.7	1.330	2.308	5.3	19.7
3 12	11 15.67	+17 55.9	1.318	2.292	6.4	19.7
3 22	11 7.99	+18 40.2	1.331	2.277	10.2	19.9
4 1	11 1.73	+19 0.0	1.366	2.264	14.3	20.1
4 11	10 57.82	+18 53.9	1.421	2.251	18.0	20.3

147388 2003 EO_{57} 3 8.9 14°.24 11°.4/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 36.78	+23 50.7	1.120	1.990	17.9	18.2
2 11	11 35.38	+26 3.8	1.082	1.996	14.5	18.0
2 21	11 30.69	+28 11.1	1.064	2.005	12.0	17.9
3 2	11 23.63	+29 56.0	1.068	2.015	11.5	17.9
3 12	11 15.70	+31 4.5	1.094	2.026	13.3	18.0
3 22	11 8.51	+31 30.3	1.141	2.039	16.2	18.2
4 1	11 3.41	+31 14.0	1.206	2.054	19.3	18.4
4 11	11 1.21	+30 21.5	1.286	2.070	22.0	18.7

143276 2003 AA_{18} 3 9.0 48°.08 9°.6/29.3 18

2 1	11 44.83	+25 21.6	1.529	2.368	15.6	19.0
2 11	11 40.74	+27 1.7	1.483	2.379	12.6	18.9
2 21	11 33.79	+28 35.4	1.461	2.391	10.3	18.8
3 2	11 24.84	+29 50.5	1.463	2.403	9.6	18.8
3 12	11 15.20	+30 37.1	1.489	2.415	10.9	18.9
3 22	11 6.22	+30 50.7	1.539	2.427	13.4	19.0
4 1	10 59.10	+30 31.7	1.611	2.440	16.2	19.2
4 11	10 54.58	+29 44.2	1.700	2.453	18.6	19.5

455456 2003 SV_{365} 3 9.0 74°.95 1°.3/10.1 18

2 1	11 44.31	− 1 16.8	1.523	2.321	17.7	21.7
2 11	11 40.14	− 1 2.1	1.456	2.337	13.8	21.5
2 21	11 33.35	− 0 28.2	1.409	2.353	9.3	21.2
3 2	11 24.67	+ 0 21.1	1.387	2.368	4.4	21.0
3 12	11 15.25	+ 1 19.1	1.392	2.384	1.7	20.8
3 22	11 6.33	+ 2 18.0	1.424	2.400	6.2	21.1
4 1	10 59.02	+ 3 9.9	1.481	2.415	10.8	21.4
4 11	10 54.12	+ 3 49.3	1.562	2.431	14.7	21.7

499098 2009 FF_{70} 3 9.0 289°.50 2°.5/ 6.9 17

2 1	11 42.97	+ 7 42.6	1.567	2.392	16.0	21.9
2 11	11 39.47	+ 8 23.1	1.474	2.375	12.4	21.7
2 21	11 33.21	+ 9 16.6	1.402	2.357	8.1	21.4
3 2	11 24.76	+10 17.0	1.355	2.340	3.6	21.1
3 12	11 15.16	+11 15.7	1.335	2.323	3.7	21.0
3 22	11 5.68	+12 4.2	1.342	2.305	8.3	21.2
4 1	10 57.63	+12 35.8	1.373	2.288	13.0	21.4
4 11	10 52.01	+12 47.0	1.426	2.271	17.2	21.7

52517 1996 HZ_{23} 3 9.0 19°.30 10°.0/ 1.8 18

2 1	11 46.42	+24 59.9	1.308	2.154	17.3	18.9
2 11	11 42.37	+26 13.5	1.259	2.160	14.0	18.7
2 21	11 35.05	+27 20.2	1.230	2.166	11.2	18.5
3 2	11 25.42	+28 7.2	1.224	2.174	10.0	18.5
3 12	11 14.97	+28 24.5	1.242	2.182	11.2	18.6
3 22	11 5.33	+28 7.7	1.283	2.191	14.0	18.7
4 1	10 57.86	+27 18.2	1.344	2.201	17.2	19.0
4 11	10 53.36	+26 1.5	1.423	2.212	20.1	19.2

221242 2005 UQ_{216} 3 9.0 127°.62 1°.5/ 7.4 18

2 1	11 43.80	+ 6 28.0	2.243	3.042	12.7	21.3
2 11	11 38.93	+ 7 10.3	2.170	3.057	9.6	21.1
2 21	11 32.17	+ 8 1.5	2.121	3.072	6.1	20.9
3 2	11 24.10	+ 8 56.7	2.101	3.086	2.6	20.7
3 12	11 15.52	+ 9 50.0	2.111	3.099	2.3	20.7
3 22	11 7.27	+10 36.2	2.150	3.112	5.8	21.0
4 1	11 0.14	+11 11.1	2.218	3.124	9.2	21.2
4 11	10 54.73	+11 32.3	2.309	3.136	12.1	21.4

44657 1999 RK_{163} 3 9.0 87°.88 1°.9/10.5 18

2 1	11 44.85	− 2 48.2	1.339	2.141	19.5	19.5
2 11	11 40.96	− 2 33.0	1.271	2.152	15.4	19.2
2 21	11 34.11	− 1 54.4	1.222	2.164	10.6	19.0
3 2	11 25.06	− 0 55.8	1.196	2.176	5.2	18.7
3 12	11 15.09	+ 0 15.1	1.195	2.187	2.1	18.5
3 22	11 5.63	+ 1 28.7	1.221	2.199	6.8	18.9
4 1	10 57.99	+ 2 35.1	1.272	2.210	11.8	19.2
4 11	10 53.06	+ 3 27.1	1.345	2.221	16.2	19.5

465715 2009 UT_{66} 3 9.0 255°.68 2°.2/ 6.8 17

2 1	11 43.16	+ 8 1.7	2.035	2.845	13.4	22.2
2 11	11 38.96	+ 8 46.0	1.935	2.828	10.3	21.9
2 21	11 32.53	+ 9 40.5	1.859	2.811	6.7	21.7
3 2	11 24.38	+10 40.1	1.810	2.793	3.1	21.4
3 12	11 15.36	+11 37.7	1.790	2.775	3.2	21.4
3 22	11 6.43	+12 26.9	1.798	2.757	7.0	21.6
4 1	10 58.59	+13 2.3	1.834	2.738	10.9	21.8
4 11	10 52.65	+13 21.0	1.892	2.719	14.3	22.0

52143 6635 P–L 3 9.0 237°.96 0°.9/ 8.1 17

2 1	11 43.31	+ 3 51.7	2.036	2.834	13.8	20.3
2 11	11 39.06	+ 4 33.7	1.934	2.820	10.7	20.1
2 21	11 32.59	+ 5 29.3	1.856	2.805	7.0	19.8
3 2	11 24.41	+ 6 34.0	1.805	2.790	2.9	19.5
3 12	11 15.35	+ 7 41.5	1.784	2.774	2.0	19.4
3 22	11 6.39	+ 8 44.7	1.791	2.758	6.2	19.7
4 1	10 58.51	+ 9 37.4	1.826	2.741	10.3	19.9
4 11	10 52.51	+10 15.1	1.885	2.723	13.9	20.0

58682 Alenašolcová 3 9.0 22°.14 1°.5/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 1	11 40.64	+ 5 31.7	1.417	2.247	17.1	18.5
2 11	11 37.56	+ 6 3.7	1.351	2.254	13.1	18.3
2 21	11 31.80	+ 6 49.9	1.305	2.261	8.4	18.0
3 2	11 24.07	+ 7 44.0	1.284	2.270	3.5	17.8
3 12	11 15.54	+ 8 37.6	1.289	2.279	2.7	17.7
3 22	11 7.48	+ 9 22.6	1.319	2.289	7.6	18.0
4 1	11 1.05	+ 9 52.7	1.374	2.300	12.2	18.3
4 11	10 57.06	+10 4.9	1.450	2.311	16.1	18.6

469454 2002 PT_{164} 3 9.0 267°.69 0°.9/ 7.9 16

2 1	11 42.03	+ 4 40.5	2.479	3.272	11.8	23.5
2 11	11 37.77	+ 5 18.7	2.360	3.243	9.1	23.2
2 21	11 31.62	+ 6 8.0	2.265	3.213	6.0	23.0
3 2	11 23.99	+ 7 4.7	2.199	3.183	2.5	22.7
3 12	11 15.53	+ 8 3.7	2.162	3.152	1.8	22.6
3 22	11 7.05	+ 8 59.4	2.156	3.121	5.5	22.8
4 1	10 59.37	+ 9 46.8	2.179	3.089	9.1	23.0
4 11	10 53.19	+10 21.9	2.226	3.056	12.4	23.1

290653 2005 UG_{286} 3 9.0 230°.00 1°.9/11.1 17

2 1	11 40.64	− 5 2.6	2.160	2.926	14.2	21.4
2 11	11 36.85	− 4 32.3	2.057	2.916	11.4	21.2
2 21	11 31.06	− 3 43.1	1.975	2.906	8.0	21.0
3 2	11 23.74	− 2 37.3	1.920	2.896	4.3	20.7
3 12	11 15.65	− 1 19.6	1.894	2.884	2.0	20.5
3 22	11 7.67	+ 0 3.4	1.897	2.873	5.0	20.7
4 1	11 0.68	+ 1 24.3	1.929	2.861	8.8	20.9
4 11	10 55.40	+ 2 36.6	1.986	2.848	12.3	21.1

218020 2001 YN_{32} 3 9.0 148°.47 0°.1/ 8.9 18

2 1	11 43.26	+ 2 30.9	2.074	2.867	13.8	20.9
2 11	11 38.77	+ 2 57.2	1.991	2.872	10.6	20.7
2 21	11 32.22	+ 3 35.9	1.932	2.878	7.0	20.4
3 2	11 24.18	+ 4 23.1	1.899	2.883	2.9	20.2
3 12	11 15.50	+ 5 13.5	1.896	2.888	1.3	20.1
3 22	11 7.09	+ 6 1.2	1.922	2.893	5.5	20.4
4 1	10 59.84	+ 6 41.1	1.975	2.897	9.3	20.6
4 11	10 54.43	+ 7 9.3	2.053	2.900	12.6	20.8

335388 2005 SM_{281} 3 9.0 267°.01 1°.3/ 7.7 17

2 1	11 41.04	+ 5 21.6	2.084	2.890	13.3	21.6
2 11	11 37.25	+ 6 2.4	1.984	2.874	10.2	21.3
2 21	11 31.37	+ 6 55.1	1.907	2.859	6.6	21.1
3 2	11 23.89	+ 7 55.1	1.858	2.843	2.8	20.8
3 12	11 15.59	+ 8 56.3	1.837	2.827	2.3	20.7
3 22	11 7.40	+ 9 52.0	1.845	2.810	6.3	21.0
4 1	11 0.24	+10 36.6	1.881	2.794	10.2	21.2
4 11	10 54.87	+11 6.4	1.939	2.777	13.6	21.3

502054 2015 AX_{164} 3 9.0 117°.52 1°.2/ 7.8 17

2 1	11 41.56	+ 5 0.9	2.030	2.835	13.6	21.5
2 11	11 37.50	+ 5 41.0	1.951	2.841	10.4	21.3
2 21	11 31.41	+ 6 32.4	1.896	2.847	6.7	21.1
3 2	11 23.84	+ 7 30.2	1.868	2.853	2.7	20.8
3 12	11 15.65	+ 8 28.1	1.868	2.858	2.1	20.8
3 22	11 7.74	+ 9 19.8	1.897	2.863	6.0	21.0
4 1	11 1.00	+10 0.4	1.954	2.869	9.7	21.3
4 11	10 56.08	+10 26.6	2.034	2.874	13.0	21.5

384580 2010 HU_{108} 3 9.0 191°.01 4°.7/ 3.0 17

2 1	11 40.30	+17 26.3	2.420	3.243	11.1	20.8
2 11	11 36.31	+18 36.7	2.345	3.242	8.6	20.6
2 21	11 30.52	+19 49.0	2.296	3.242	6.1	20.4
3 2	11 23.45	+20 56.6	2.276	3.241	4.7	20.3
3 12	11 15.81	+21 53.1	2.284	3.240	5.7	20.4
3 22	11 8.41	+22 33.6	2.320	3.239	8.0	20.5
4 1	11 2.01	+22 55.5	2.382	3.238	10.6	20.7
4 11	10 57.20	+22 58.3	2.466	3.237	13.0	20.9

458251 2010 TZ_{105} 3 9.0 338°.61 2°.7/11.3 18

2 1	11 40.25	− 4 31.9	1.525	2.318	17.9	21.1
2 11	11 37.30	− 4 27.1	1.439	2.313	14.4	20.8
2 21	11 31.71	− 3 59.9	1.372	2.309	10.2	20.6
3 2	11 24.10	− 3 11.9	1.330	2.306	5.6	20.3
3 12	11 15.51	− 2 8.4	1.313	2.303	2.8	20.1
3 22	11 7.14	− 0 57.6	1.322	2.300	6.3	20.3
4 1	11 0.22	+ 0 11.4	1.357	2.297	10.9	20.6
4 11	10 55.64	+ 1 10.4	1.414	2.295	15.2	20.8

16512 1990 VQ_4 3 9.0 13°.44 5°.2/ 4.8 18 R

2 1	11 41.51	+11 42.7	1.303	2.149	17.4	17.8
2 11	11 38.59	+13 1.5	1.238	2.150	13.3	17.5
2 21	11 32.67	+14 31.5	1.194	2.152	8.8	17.2
3 2	11 24.50	+16 1.7	1.174	2.154	5.4	17.1
3 12	11 15.36	+17 19.7	1.180	2.156	6.6	17.1
3 22	11 6.70	+18 15.5	1.210	2.159	10.7	17.4
4 1	10 59.84	+18 43.7	1.263	2.163	15.1	17.6
4 11	10 55.70	+18 43.7	1.334	2.167	18.9	17.9