126631 2002 CO_{164} 2 6.9 70°.03 2°.5/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 44.70	+19 24.4	1.824	2.642	14.3	19.9
1 12	9 40.27	+20 17.1	1.754	2.651	10.8	19.7
1 22	9 33.41	+21 17.1	1.709	2.659	6.8	19.5
2 1	9 24.82	+22 17.9	1.690	2.668	3.1	19.3
2 11	9 15.55	+23 12.3	1.700	2.677	3.7	19.3
2 21	9 6.76	+23 54.7	1.738	2.686	7.5	19.6
3 2	8 59.54	+24 21.7	1.802	2.695	11.2	19.8
3 12	8 54.65	+24 32.9	1.889	2.703	14.5	20.1

462638 2009 SU_{38} 2 6.9 152°.89 2°.1/ 5.4 18

1 2	9 47.02	+20 19.6	2.181	2.987	12.7	22.2
1 12	9 41.65	+20 52.8	2.103	2.993	9.6	22.0
1 22	9 34.12	+21 30.6	2.050	2.998	6.1	21.8
2 1	9 25.06	+22 8.0	2.025	3.003	2.8	21.6
2 11	9 15.39	+22 39.7	2.030	3.007	3.1	21.6
2 21	9 6.14	+23 1.8	2.064	3.012	6.5	21.9
3 2	8 58.25	+23 12.1	2.127	3.015	9.9	22.1
3 12	8 52.43	+23 10.4	2.213	3.019	12.9	22.3

166710 2002 TA_{199} 2 6.9 182°.20 1°.7/ 8.5 17

1 2	9 43.59	+ 8 18.0	2.893	3.657	10.9	20.9
1 12	9 38.53	+ 8 18.0	2.798	3.658	8.6	20.7
1 22	9 31.90	+ 8 27.2	2.728	3.658	5.8	20.6
2 1	9 24.18	+ 8 44.2	2.686	3.658	3.0	20.4
2 11	9 15.98	+ 9 6.7	2.675	3.657	1.9	20.3
2 21	9 8.00	+ 9 31.9	2.696	3.655	4.4	20.5
3 2	9 0.90	+ 9 57.1	2.746	3.654	7.2	20.6
3 12	8 55.24	+10 19.6	2.823	3.651	9.8	20.8

215052 2009 DA_{47} 2 6.9 14°.07 9°.6/ 3.9 18

1 2	10 1.07	+40 49.7	1.551	2.358	16.9	19.2
1 12	9 53.23	+40 59.7	1.496	2.365	14.0	19.0
1 22	9 41.72	+40 52.9	1.461	2.374	11.3	18.9
2 1	9 27.88	+40 19.6	1.451	2.385	9.7	18.8
2 11	9 13.66	+39 14.6	1.467	2.396	10.1	18.9
2 21	9 0.99	+37 39.6	1.509	2.409	12.3	19.0
3 2	8 51.28	+35 41.6	1.576	2.423	15.1	19.2
3 12	8 45.25	+33 29.7	1.664	2.438	17.8	19.5

56519 2000 HB_{21} 2 6.9 203°.38 0°.3/ 6.8 18

1 2	9 47.32	+13 29.5	1.806	2.606	15.1	19.5
1 12	9 42.41	+14 7.2	1.717	2.603	11.6	19.3
1 22	9 34.91	+14 57.9	1.652	2.599	7.5	19.0
2 1	9 25.45	+15 57.0	1.614	2.594	2.8	18.7
2 11	9 15.09	+16 57.8	1.604	2.588	2.1	18.6
2 21	9 5.04	+17 53.6	1.624	2.582	6.8	18.9
3 2	8 56.50	+18 39.2	1.671	2.576	11.2	19.2
3 12	8 50.38	+19 11.8	1.741	2.568	15.0	19.4

316559 2011 DZ_{51} 2 6.9 51°.62 2°.9/ 9.2 18

1 2	9 42.22	+ 5 24.9	1.907	2.687	15.2	20.9
1 12	9 38.25	+ 5 35.3	1.824	2.690	12.1	20.7
1 22	9 32.09	+ 6 2.8	1.762	2.693	8.4	20.5
2 1	9 24.32	+ 6 45.8	1.727	2.696	4.6	20.2
2 11	9 15.88	+ 7 40.0	1.719	2.699	3.0	20.1
2 21	9 7.77	+ 8 39.9	1.740	2.703	6.0	20.3
3 2	9 0.98	+ 9 39.5	1.789	2.706	9.8	20.6
3 12	8 56.26	+10 33.6	1.861	2.710	13.2	20.8

422079 2014 QB_{385} 2 6.9 182°.41 0°.2/ 6.8 18

1 2	9 47.53	+14 9.7	2.105	2.898	13.5	22.0
1 12	9 42.14	+14 37.2	2.018	2.899	10.4	21.8
1 22	9 34.51	+15 14.4	1.954	2.899	6.6	21.6
2 1	9 25.24	+15 57.4	1.919	2.899	2.5	21.3
2 11	9 15.26	+16 41.1	1.914	2.898	1.8	21.2
2 21	9 5.61	+17 20.6	1.939	2.896	6.0	21.5
3 2	8 57.29	+17 52.1	1.992	2.894	9.8	21.7
3 12	8 51.07	+18 13.6	2.070	2.891	13.1	22.0

63911 2001 SV_{30} 2 6.9 353°.35 2°.1/ 8.7 18

1 2	9 40.15	+ 6 58.5	2.099	2.883	13.9	19.4
1 12	9 36.53	+ 7 16.1	2.011	2.882	10.9	19.2
1 22	9 30.92	+ 7 48.7	1.946	2.880	7.5	19.0
2 1	9 23.87	+ 8 34.2	1.906	2.879	3.8	18.8
2 11	9 16.19	+ 9 28.5	1.896	2.878	2.3	18.6
2 21	9 8.77	+10 26.5	1.914	2.878	5.5	18.8
3 2	9 2.51	+11 22.8	1.961	2.877	9.1	19.1
3 12	8 58.10	+12 13.0	2.032	2.877	12.4	19.3

165816 2001 RU_{100} 2 6.9 196°.07 2°.9/ 4.7 18

1 2	9 45.56	+23 42.8	2.445	3.253	11.4	20.2
1 12	9 40.41	+24 15.0	2.362	3.252	8.7	20.0
1 22	9 33.29	+24 48.9	2.304	3.250	5.7	19.8
2 1	9 24.75	+25 19.8	2.275	3.249	3.2	19.7
2 11	9 15.65	+25 43.0	2.276	3.247	3.7	19.7
2 21	9 6.89	+25 55.4	2.307	3.245	6.5	19.9
3 2	8 59.34	+25 55.3	2.365	3.243	9.5	20.1
3 12	8 53.67	+25 43.1	2.447	3.241	12.2	20.2

403850 2011 UK_{310} 2 6.9 39°.74 1°.8/ 6.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.01	+16 56.5	1.254	2.088	18.5	20.5
1 12	9 42.05	+17 31.5	1.198	2.102	14.0	20.3
1 22	9 34.88	+18 18.3	1.163	2.117	8.8	20.1
2 1	9 25.44	+19 9.5	1.152	2.132	3.4	19.8
2 11	9 15.23	+19 56.2	1.166	2.148	3.4	19.8
2 21	9 5.86	+20 31.4	1.206	2.165	8.6	20.2
3 2	8 58.72	+20 51.1	1.270	2.182	13.4	20.5
3 12	8 54.69	+20 54.5	1.355	2.200	17.4	20.8

377895 2006 DT_{87} 2 6.9 305°.44 1°.5/ 5.9 18

1 2	9 43.75	+17 28.5	2.022	2.833	13.4	21.3
1 12	9 39.40	+18 5.2	1.940	2.832	10.1	21.1
1 22	9 32.82	+18 49.9	1.881	2.831	6.4	20.8
2 1	9 24.62	+19 37.7	1.850	2.829	2.6	20.6
2 11	9 15.74	+20 22.9	1.847	2.828	2.6	20.6
2 21	9 7.19	+21 0.3	1.874	2.827	6.5	20.8
3 2	8 59.98	+21 26.6	1.928	2.826	10.3	21.0
3 12	8 54.88	+21 40.3	2.005	2.825	13.5	21.2

253208 2002 XP_{82} 2 6.9 16°.24 0°.4/ 7.3 18

1 2	9 39.46	+ 9 59.8	1.313	2.138	18.3	19.5
1 12	9 37.03	+10 53.6	1.246	2.143	14.1	19.2
1 22	9 31.72	+12 9.3	1.199	2.149	9.2	19.0
2 1	9 24.28	+13 40.8	1.176	2.156	3.6	18.7
2 11	9 15.97	+15 18.1	1.180	2.165	2.2	18.6
2 21	9 8.18	+16 50.5	1.209	2.174	7.7	18.9
3 2	9 2.26	+18 9.2	1.263	2.184	12.7	19.3
3 12	8 59.10	+19 9.0	1.338	2.195	16.9	19.5

356462 2011 QY_{8} 2 7.0 93°.50 1°.0/ 6.5 18

1 2	9 50.81	+16 54.0	1.527	2.340	16.8	21.6
1 12	9 45.22	+17 5.3	1.461	2.353	12.8	21.3
1 22	9 36.70	+17 25.2	1.416	2.365	8.1	21.1
2 1	9 26.11	+17 48.7	1.397	2.377	3.1	20.8
2 11	9 14.80	+18 9.6	1.406	2.389	2.6	20.8
2 21	9 4.20	+18 23.3	1.442	2.401	7.5	21.1
3 2	8 55.61	+18 26.9	1.505	2.412	12.0	21.4
3 12	8 49.89	+18 19.7	1.590	2.424	15.8	21.7

168327 1993 FZ_{60} 2 7.0 296°.45 1°.7/ 8.4 17

1 2	9 40.88	+ 8 32.0	2.260	3.044	13.0	20.6
1 12	9 37.01	+ 8 45.6	2.163	3.035	10.2	20.4
1 22	9 31.22	+ 9 12.1	2.089	3.026	6.9	20.2
2 1	9 24.01	+ 9 49.4	2.043	3.017	3.4	20.0
2 11	9 16.15	+10 33.8	2.025	3.008	2.0	19.9
2 21	9 8.49	+11 20.9	2.037	3.000	5.3	20.1
3 2	9 1.89	+12 6.3	2.077	2.991	8.8	20.3
3 12	8 57.05	+12 46.0	2.142	2.983	12.0	20.5

432056 2008 YM_{21} 2 7.0 338°.19 3°.1/ 3.9 17

1 2	9 41.38	+20 27.4	2.164	2.981	12.4	21.2
1 12	9 37.58	+21 50.4	2.084	2.980	9.3	21.0
1 22	9 31.67	+23 20.9	2.028	2.978	6.0	20.8
2 1	9 24.20	+24 52.1	2.001	2.976	3.3	20.6
2 11	9 16.02	+26 16.5	2.005	2.975	4.2	20.7
2 21	9 8.09	+27 27.6	2.037	2.974	7.4	20.8
3 2	9 1.38	+28 21.6	2.096	2.973	10.6	21.0
3 12	8 56.62	+28 57.1	2.179	2.972	13.5	21.2

199797 2006 UY_{240} 2 7.0 199°.72 1°.9/ 8.5 18

1 2	9 44.74	+ 7 25.8	2.194	2.968	13.7	20.7
1 12	9 39.97	+ 7 43.7	2.099	2.965	10.7	20.4
1 22	9 33.13	+ 8 15.8	2.028	2.961	7.3	20.2
2 1	9 24.75	+ 8 59.9	1.984	2.957	3.7	20.0
2 11	9 15.67	+ 9 52.1	1.969	2.952	2.2	19.9
2 21	9 6.82	+10 47.3	1.985	2.946	5.5	20.1
3 2	8 59.13	+11 40.6	2.029	2.940	9.2	20.3
3 12	8 53.34	+12 27.8	2.098	2.933	12.5	20.5

169107 2001 OW_{7} 2 7.0 153°.24 1°.7/ 8.7 18

1 2	9 41.77	+ 7 19.7	2.827	3.592	11.1	20.8
1 12	9 37.19	+ 7 37.1	2.739	3.599	8.7	20.7
1 22	9 31.08	+ 8 5.2	2.675	3.606	5.9	20.5
2 1	9 23.90	+ 8 42.2	2.641	3.612	3.0	20.3
2 11	9 16.29	+ 9 25.2	2.636	3.618	1.8	20.2
2 21	9 8.91	+10 10.5	2.663	3.624	4.3	20.4
3 2	9 2.42	+10 54.6	2.720	3.629	7.2	20.6
3 12	8 57.35	+11 34.6	2.803	3.634	9.8	20.8

444403 2006 AK_{30} 2 7.0 75°.48 2°.7/ 8.5 18

1 2	9 48.81	+ 7 48.0	1.397	2.196	18.9	21.7
1 12	9 43.75	+ 7 47.5	1.338	2.217	14.7	21.5
1 22	9 35.77	+ 8 5.7	1.299	2.238	10.0	21.3
2 1	9 25.76	+ 8 40.0	1.285	2.259	5.0	21.0
2 11	9 15.09	+ 9 24.5	1.297	2.280	3.0	21.0
2 21	9 5.18	+10 12.4	1.337	2.301	7.2	21.3
3 2	8 57.31	+10 57.3	1.402	2.321	11.8	21.6
3 12	8 52.31	+11 34.4	1.489	2.342	15.7	21.9

112565 2002 PA_{50} 2 7.0 113°.33 0°.5/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.76	+14 2.4	2.178	2.968	13.2	20.6
1 12	9 42.04	+14 45.1	2.113	2.993	10.0	20.5
1 22	9 34.28	+15 37.0	2.072	3.017	6.3	20.3
2 1	9 25.13	+16 33.6	2.060	3.040	2.3	20.0
2 11	9 15.51	+17 29.1	2.079	3.062	1.8	20.0
2 21	9 6.38	+18 18.7	2.128	3.084	5.7	20.3
3 2	8 58.62	+18 58.9	2.206	3.105	9.2	20.6
3 12	8 52.87	+19 27.9	2.309	3.125	12.1	20.8

325251 2008 GJ_{85} 2 7.0 205°.18 1°.2/ 6.1 16

1 2	9 44.88	+16 3.8	2.012	2.818	13.6	21.6
1 12	9 40.31	+16 47.3	1.926	2.815	10.4	21.3
1 22	9 33.46	+17 40.6	1.864	2.812	6.6	21.1
2 1	9 24.91	+18 38.7	1.829	2.809	2.5	20.8
2 11	9 15.61	+19 35.3	1.824	2.806	2.5	20.8
2 21	9 6.61	+20 24.9	1.848	2.802	6.5	21.1
3 2	8 58.95	+21 3.2	1.899	2.798	10.4	21.3
3 12	8 53.43	+21 28.2	1.974	2.793	13.7	21.5

287853 2003 SX_{246} 2 7.0 168°.70 1°.4/ 8.1 18

1 2	9 46.34	+ 8 53.6	2.077	2.856	14.1	21.6
1 12	9 41.23	+ 9 18.5	1.990	2.861	11.0	21.4
1 22	9 33.95	+ 9 57.4	1.928	2.865	7.3	21.1
2 1	9 25.08	+10 47.3	1.892	2.868	3.4	20.9
2 11	9 15.52	+11 43.5	1.887	2.871	1.9	20.8
2 21	9 6.28	+12 40.3	1.912	2.873	5.7	21.1
3 2	8 58.34	+13 32.9	1.965	2.874	9.5	21.3
3 12	8 52.44	+14 17.4	2.043	2.874	12.9	21.5

244194 2001 YW_{34} 2 7.0 57°.49 1°.9/ 8.5 18

1 2	9 42.09	+ 8 36.1	2.320	3.100	12.8	20.2
1 12	9 37.75	+ 8 36.9	2.236	3.105	10.0	20.1
1 22	9 31.59	+ 8 49.0	2.176	3.111	6.8	19.9
2 1	9 24.14	+ 9 10.8	2.143	3.116	3.4	19.7
2 11	9 16.16	+ 9 39.1	2.139	3.121	2.1	19.6
2 21	9 8.49	+10 10.2	2.165	3.127	5.1	19.8
3 2	9 1.92	+10 40.7	2.219	3.132	8.4	20.0
3 12	8 57.08	+11 7.2	2.298	3.138	11.4	20.2

333615 2007 SD_{1} 2 7.0 96°.63 1°.4/ 8.1 18

1 2	9 46.88	+10 37.4	2.559	3.331	12.0	20.6
1 12	9 41.02	+10 29.8	2.489	3.356	9.2	20.4
1 22	9 33.46	+10 30.5	2.445	3.380	6.1	20.3
2 1	9 24.79	+10 37.9	2.429	3.404	2.8	20.1
2 11	9 15.76	+10 49.2	2.444	3.427	1.7	20.0
2 21	9 7.17	+11 1.9	2.490	3.450	4.7	20.3
3 2	8 59.73	+11 13.5	2.566	3.472	7.7	20.5
3 12	8 53.99	+11 22.0	2.668	3.494	10.4	20.7

168013 2005 HK_{4} 2 7.0 267°.06 4°.8/10.7 18

1 2	9 42.25	+ 0 23.2	2.344	3.087	13.7	20.2
1 12	9 37.97	− 0 2.0	2.245	3.080	11.3	20.0
1 22	9 31.80	− 0 12.0	2.168	3.073	8.6	19.8
2 1	9 24.26	− 0 6.1	2.117	3.066	6.0	19.6
2 11	9 16.06	+ 0 14.6	2.094	3.059	4.8	19.5
2 21	9 8.05	+ 0 47.0	2.101	3.051	6.2	19.6
3 2	9 1.07	+ 1 27.1	2.135	3.044	8.9	19.8
3 12	8 55.79	+ 2 10.2	2.194	3.037	11.7	19.9

109609 2001 QZ_{287} 2 7.0 68°.21 0°.9/ 7.6 18

1 2	9 46.14	+11 35.7	1.691	2.492	15.9	19.7
1 12	9 41.37	+11 45.8	1.624	2.508	12.3	19.5
1 22	9 34.12	+12 8.9	1.579	2.523	8.0	19.3
2 1	9 25.14	+12 41.4	1.560	2.538	3.3	19.0
2 11	9 15.53	+13 18.0	1.569	2.554	1.9	18.9
2 21	9 6.51	+13 53.6	1.607	2.569	6.4	19.3
3 2	8 59.14	+14 23.5	1.671	2.585	10.6	19.5
3 12	8 54.18	+14 45.0	1.758	2.600	14.2	19.8

19037 4663 $P–L$ 2 7.0 158°.46 0°.1/ 7.1 18

1 2	9 47.74	+12 29.1	2.049	2.838	14.0	20.7
1 12	9 42.32	+13 2.7	1.967	2.846	10.7	20.5
1 22	9 34.64	+13 47.8	1.910	2.853	6.9	20.3
2 1	9 25.35	+14 40.3	1.881	2.860	2.7	20.0
2 11	9 15.38	+15 34.8	1.882	2.866	1.7	20.0
2 21	9 5.79	+16 25.7	1.913	2.871	5.9	20.3
3 2	8 57.58	+17 8.6	1.972	2.875	9.8	20.5
3 12	8 51.51	+17 41.1	2.056	2.879	13.1	20.7

374965 2007 DC_{11} 2 7.0 233°.04 2°.0/ 5.6 17

1 2	9 47.40	+20 14.0	2.184	2.989	12.7	21.6
1 12	9 42.10	+20 37.8	2.092	2.980	9.7	21.4
1 22	9 34.55	+21 6.3	2.024	2.971	6.2	21.2
2 1	9 25.34	+21 34.8	1.984	2.962	2.7	20.9
2 11	9 15.38	+21 58.2	1.973	2.952	3.0	20.9
2 21	9 5.73	+22 12.9	1.993	2.942	6.6	21.1
3 2	8 57.38	+22 16.4	2.040	2.932	10.2	21.3
3 12	8 51.14	+22 8.5	2.112	2.921	13.3	21.5

425233 2009 VR_{115} 2 7.0 118°.24 3°.0/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.40	+22 28.6	2.347	3.154	11.9	21.9
1 12	9 41.03	+23 27.5	2.282	3.172	8.9	21.7
1 22	9 33.67	+24 29.4	2.243	3.189	5.8	21.5
2 1	9 24.93	+25 28.5	2.233	3.206	3.3	21.4
2 11	9 15.69	+26 19.0	2.253	3.223	3.9	21.5
2 21	9 6.88	+26 57.0	2.303	3.238	6.7	21.7
3 2	8 59.37	+27 20.3	2.381	3.254	9.7	21.9
3 12	8 53.80	+27 29.0	2.482	3.269	12.2	22.1

457241 2008 OY_{8} 2 7.0 245°.80 4°.5/10.1 17

1 2	9 45.59	+ 1 51.2	2.343	3.086	13.7	21.3
1 12	9 40.59	+ 1 21.9	2.233	3.071	11.3	21.1
1 22	9 33.56	+ 1 6.4	2.146	3.055	8.5	20.9
2 1	9 24.98	+ 1 5.5	2.086	3.038	5.7	20.7
2 11	9 15.62	+ 1 18.3	2.054	3.021	4.5	20.6
2 21	9 6.37	+ 1 42.1	2.052	3.004	6.2	20.6
3 2	8 58.14	+ 2 13.4	2.079	2.986	9.2	20.8
3 12	8 51.69	+ 2 47.7	2.131	2.967	12.2	20.9

186993 2004 TB_{13} 2 7.0 173°.12 5°.0/ 2.2 18

1 2	9 49.75	+32 9.1	2.755	3.554	10.5	20.9
1 12	9 43.50	+33 5.9	2.682	3.558	8.3	20.8
1 22	9 35.24	+33 59.2	2.635	3.562	6.2	20.6
2 1	9 25.55	+34 43.1	2.617	3.564	5.1	20.6
2 11	9 15.31	+35 12.7	2.629	3.566	5.8	20.6
2 21	9 5.44	+35 25.0	2.670	3.567	7.7	20.7
3 2	8 56.83	+35 19.9	2.739	3.568	10.0	20.9
3 12	8 50.15	+34 58.9	2.831	3.567	12.0	21.0

294097 2007 TQ_{218} 2 7.0 144°.37 4°.3/ 3.1 17

1 2	9 45.25	+27 58.9	2.473	3.285	11.2	20.8
1 12	9 40.24	+28 52.8	2.401	3.289	8.6	20.7
1 22	9 33.23	+29 46.0	2.354	3.293	6.0	20.5
2 1	9 24.80	+30 32.8	2.335	3.297	4.4	20.4
2 11	9 15.82	+31 7.8	2.346	3.301	5.1	20.5
2 21	9 7.21	+31 27.7	2.385	3.304	7.5	20.6
3 2	8 59.84	+31 31.4	2.452	3.307	10.1	20.8
3 12	8 54.39	+31 19.8	2.541	3.310	12.4	21.0

339576 2005 LC_{32} 2 7.0 169°.83 3°.5/ 8.9 18

1 2	9 49.65	+ 6 51.9	1.561	2.346	17.8	21.5
1 12	9 44.43	+ 6 33.1	1.479	2.349	14.1	21.3
1 22	9 36.35	+ 6 31.1	1.418	2.351	9.9	21.1
2 1	9 26.11	+ 6 45.3	1.382	2.353	5.4	20.8
2 11	9 14.93	+ 7 12.0	1.374	2.354	3.6	20.7
2 21	9 4.20	+ 7 46.2	1.393	2.355	7.3	20.9
3 2	8 55.24	+ 8 22.2	1.439	2.355	11.8	21.2
3 12	8 49.03	+ 8 54.7	1.507	2.355	15.8	21.4

500464 2012 TW_{219} 2 7.0 126°.34 0°.4/ 6.6 17

1 2	9 43.11	+15 19.7	2.801	3.591	10.6	22.5
1 12	9 38.21	+15 47.9	2.725	3.605	8.0	22.3
1 22	9 31.74	+16 22.4	2.674	3.619	5.1	22.2
2 1	9 24.20	+17 0.0	2.652	3.632	1.9	21.9
2 11	9 16.25	+17 36.9	2.662	3.645	1.5	21.9
2 21	9 8.61	+18 9.9	2.702	3.657	4.6	22.2
3 2	9 1.94	+18 36.5	2.772	3.669	7.5	22.4
3 12	8 56.78	+18 55.1	2.867	3.681	10.1	22.6

417697 2007 BZ_{57} 2 7.0 7°.50 5°.4/ 5.2 18

1 2	9 51.54	+28 12.9	1.245	2.084	18.3	19.4
1 12	9 46.58	+28 9.5	1.182	2.086	14.2	19.2
1 22	9 37.94	+28 1.5	1.139	2.088	9.7	18.9
2 1	9 26.71	+27 40.9	1.120	2.093	5.9	18.7
2 11	9 14.65	+27 1.8	1.126	2.098	6.3	18.8
2 21	9 3.66	+26 3.1	1.158	2.105	10.4	19.0
3 2	8 55.32	+24 47.7	1.213	2.114	14.8	19.3
3 12	8 50.52	+23 20.9	1.288	2.124	18.7	19.5

288892 2004 RU_{287} 2 7.0 89°.44 0°.9/ 6.5 18

1 2	9 50.06	+15 23.5	1.571	2.380	16.6	21.4
1 12	9 44.49	+15 58.7	1.513	2.404	12.6	21.2
1 22	9 36.17	+16 44.7	1.478	2.427	7.9	20.9
2 1	9 25.96	+17 35.4	1.469	2.449	3.0	20.7
2 11	9 15.15	+18 23.5	1.488	2.471	2.5	20.7
2 21	9 5.10	+19 3.2	1.536	2.493	7.2	21.0
3 2	8 56.99	+19 30.5	1.609	2.514	11.5	21.3
3 12	8 51.59	+19 44.5	1.706	2.535	15.1	21.6

285627 2000 RX_{53} 2 7.0 119°.01 4°.4/11.8 18

1 2	9 40.87	− 3 1.2	2.895	3.609	12.0	21.1
1 12	9 36.46	− 3 1.5	2.812	3.625	9.9	21.0
1 22	9 30.62	− 2 46.3	2.751	3.640	7.7	20.9
2 1	9 23.78	− 2 15.9	2.717	3.655	5.5	20.7
2 11	9 16.56	− 1 32.3	2.713	3.669	4.4	20.7
2 21	9 9.59	− 0 38.7	2.738	3.683	5.2	20.7
3 2	9 3.48	+ 0 20.7	2.792	3.697	7.2	20.9
3 12	8 58.74	+ 1 21.6	2.873	3.710	9.4	21.1

203795 2002 TE_{90} 2 7.0 62°.49 0°.2/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.19	+13 32.0	2.026	2.820	13.9	20.7
1 12	9 41.60	+13 45.9	1.974	2.855	10.6	20.5
1 22	9 33.98	+14 8.7	1.945	2.889	6.7	20.4
2 1	9 25.06	+14 36.7	1.944	2.923	2.6	20.2
2 11	9 15.78	+15 5.5	1.972	2.957	1.6	20.1
2 21	9 7.15	+15 31.3	2.031	2.990	5.5	20.5
3 2	9 0.00	+15 51.0	2.117	3.024	9.1	20.7
3 12	8 54.92	+16 3.1	2.228	3.057	12.1	21.0

469927 2005 YU_{269} 2 7.0 319°.90 2°.9/ 4.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 40.71	+18 13.4	1.618	2.448	15.2	21.3
1 12	9 37.91	+19 22.2	1.524	2.427	11.6	21.1
1 22	9 32.39	+20 44.4	1.453	2.407	7.5	20.8
2 1	9 24.70	+22 12.8	1.408	2.387	3.5	20.5
2 11	9 15.88	+23 38.0	1.390	2.367	4.3	20.5
2 21	9 7.23	+24 50.8	1.399	2.348	8.7	20.7
3 2	9 0.09	+25 45.0	1.432	2.330	13.2	20.9
3 12	8 55.53	+26 17.9	1.487	2.313	17.2	21.1

499864 2011 EC_{85} 2 7.0 247°.08 1°.2/ 6.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.97	+16 43.4	2.236	3.039	12.5	22.1
1 12	9 39.49	+17 21.1	2.141	3.029	9.5	21.9
1 22	9 32.92	+18 7.2	2.069	3.017	6.1	21.7
2 1	9 24.77	+18 57.3	2.026	3.006	2.4	21.4
2 11	9 15.88	+19 46.1	2.012	2.994	2.3	21.4
2 21	9 7.20	+20 28.6	2.029	2.982	6.1	21.6
3 2	8 59.68	+21 1.2	2.073	2.970	9.7	21.8
3 12	8 54.07	+21 21.9	2.141	2.957	12.9	22.0

128540 2004 PV_{65} 2 7.0 108°.63 0°.0/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.36	+15 9.2	1.995	2.794	13.9	20.1
1 12	9 42.06	+15 13.1	1.917	2.801	10.7	19.9
1 22	9 34.51	+15 24.8	1.862	2.808	6.8	19.7
2 1	9 25.35	+15 41.0	1.834	2.814	2.6	19.4
2 11	9 15.58	+15 57.6	1.836	2.821	1.8	19.4
2 21	9 6.26	+16 10.9	1.868	2.827	6.0	19.7
3 2	8 58.38	+16 18.3	1.927	2.833	9.8	19.9
3 12	8 52.69	+16 18.1	2.010	2.840	13.2	20.2

296005 2008 YU_{108} 2 7.0 76°.00 0°.7/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.29	+15 4.6	1.467	2.280	17.4	21.1
1 12	9 44.78	+15 32.9	1.413	2.305	13.2	20.9
1 22	9 36.40	+16 12.7	1.381	2.330	8.3	20.7
2 1	9 26.07	+16 57.8	1.374	2.355	3.1	20.5
2 11	9 15.16	+17 41.1	1.396	2.379	2.4	20.5
2 21	9 5.09	+18 16.4	1.445	2.404	7.4	20.8
3 2	8 57.09	+18 40.1	1.519	2.428	11.9	21.2
3 12	8 51.94	+18 50.9	1.616	2.451	15.6	21.4

240836 2006 BF_{79} 2 7.0 251°.26 2°.1/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.61	+17 59.5	1.767	2.579	14.9	20.8
1 12	9 42.94	+18 46.3	1.671	2.564	11.4	20.6
1 22	9 35.51	+19 43.5	1.598	2.547	7.3	20.3
2 1	9 25.88	+20 45.1	1.551	2.531	3.1	20.0
2 11	9 15.15	+21 43.4	1.534	2.513	3.4	20.0
2 21	9 4.62	+22 31.3	1.545	2.496	7.9	20.2
3 2	8 55.61	+23 4.4	1.582	2.477	12.3	20.4
3 12	8 49.15	+23 20.8	1.641	2.459	16.2	20.6

340671 2006 RZ_{41} 2 7.0 167°.02 2°.0/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 40.97	+ 6 25.8	2.672	3.438	11.7	21.7
1 12	9 36.74	+ 6 41.3	2.581	3.441	9.2	21.6
1 22	9 30.92	+ 7 8.8	2.514	3.443	6.3	21.4
2 1	9 23.95	+ 7 46.5	2.474	3.444	3.4	21.2
2 11	9 16.49	+ 8 31.5	2.465	3.446	2.1	21.1
2 21	9 9.26	+ 9 19.9	2.486	3.447	4.6	21.3
3 2	9 2.93	+10 7.9	2.536	3.448	7.5	21.5
3 12	8 58.08	+10 52.0	2.613	3.449	10.3	21.6

390518 1995 SF_{42} 2 7.0 248°.59 3°.8/ 4.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.25	+22 28.3	1.685	2.501	15.4	22.4
1 12	9 45.97	+23 17.7	1.590	2.484	11.8	22.1
1 22	9 37.59	+24 13.6	1.518	2.466	7.8	21.8
2 1	9 26.72	+25 8.4	1.472	2.447	4.3	21.6
2 11	9 14.60	+25 53.4	1.455	2.427	5.0	21.6
2 21	9 2.71	+26 21.7	1.465	2.407	9.2	21.8
3 2	8 52.57	+26 30.2	1.502	2.387	13.5	22.0
3 12	8 45.33	+26 19.5	1.560	2.365	17.4	22.2

340829 2006 UD_{209} 2 7.0 245°.98 2°.3/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.76	+21 14.3	2.601	3.408	10.8	21.2
1 12	9 38.30	+21 56.2	2.510	3.400	8.2	21.0
1 22	9 32.01	+22 42.3	2.444	3.391	5.3	20.8
2 1	9 24.40	+23 28.0	2.406	3.383	2.7	20.6
2 11	9 16.19	+24 8.7	2.399	3.374	3.1	20.7
2 21	9 8.20	+24 40.5	2.422	3.365	6.0	20.8
3 2	9 1.23	+25 0.9	2.473	3.355	9.0	21.0
3 12	8 55.93	+25 9.2	2.548	3.346	11.6	21.2

420597 2012 HK_{40} 2 7.0 322°.20 5°.4/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 44.85	+ 4 5.4	1.604	2.386	17.5	20.0
1 12	9 40.87	+ 3 13.0	1.510	2.373	14.3	19.8
1 22	9 34.18	+ 2 36.4	1.437	2.360	10.6	19.5
2 1	9 25.37	+ 2 17.4	1.387	2.347	7.0	19.3
2 11	9 15.51	+ 2 15.7	1.363	2.335	5.5	19.2
2 21	9 5.88	+ 2 28.4	1.366	2.324	7.9	19.3
3 2	8 57.78	+ 2 51.0	1.395	2.313	11.9	19.5
3 12	8 52.21	+ 3 17.5	1.445	2.303	15.8	19.7

432567 2010 JV_{160} 2 7.0 79°.83 2°.5/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.38	+20 21.2	2.306	3.118	11.9	21.0
1 12	9 38.12	+21 21.3	2.234	3.127	8.9	20.8
1 22	9 31.93	+22 26.9	2.188	3.137	5.7	20.6
2 1	9 24.36	+23 32.2	2.169	3.146	2.9	20.5
2 11	9 16.24	+24 31.4	2.181	3.155	3.5	20.5
2 21	9 8.47	+25 19.7	2.222	3.164	6.5	20.7
3 2	9 1.89	+25 54.2	2.291	3.174	9.6	20.9
3 12	8 57.15	+26 14.2	2.383	3.183	12.3	21.1

313388 2002 NU_{54} 2 7.0 213°.28 2°.5/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.02	+ 9 58.8	1.798	2.584	15.8	20.4
1 12	9 44.43	+ 9 28.6	1.709	2.581	12.4	20.2
1 22	9 36.23	+ 9 9.4	1.642	2.578	8.5	19.9
2 1	9 26.09	+ 9 0.2	1.602	2.575	4.3	19.7
2 11	9 15.10	+ 8 58.7	1.590	2.572	2.8	19.6
2 21	9 4.49	+ 9 1.7	1.607	2.568	6.6	19.8
3 2	8 55.45	+ 9 6.1	1.652	2.565	10.8	20.0
3 12	8 48.85	+ 9 8.8	1.720	2.561	14.5	20.2

8626 Melissarauch 2 7.0 206°.98 1°.5/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 40.96	+ 8 12.1	2.687	3.460	11.4	19.8
1 12	9 36.77	+ 8 31.3	2.591	3.457	8.9	19.7
1 22	9 30.97	+ 9 1.6	2.520	3.453	6.0	19.5
2 1	9 23.99	+ 9 41.0	2.476	3.450	3.0	19.3
2 11	9 16.49	+10 26.4	2.464	3.446	1.7	19.2
2 21	9 9.19	+11 13.9	2.481	3.442	4.5	19.4
3 2	9 2.78	+11 59.7	2.528	3.438	7.6	19.5
3 12	8 57.85	+12 40.7	2.601	3.434	10.4	19.7

184112 2004 HB_{43} 2 7.0 237°.47 0°.5/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.43	+12 23.8	2.075	2.868	13.7	21.0
1 12	9 40.74	+12 41.9	1.978	2.858	10.6	20.7
1 22	9 33.79	+13 11.1	1.904	2.847	6.9	20.5
2 1	9 25.16	+13 48.4	1.858	2.836	2.8	20.2
2 11	9 15.72	+14 29.2	1.841	2.825	1.7	20.1
2 21	9 6.50	+15 8.6	1.853	2.814	5.9	20.4
3 2	8 58.52	+15 42.5	1.894	2.802	9.9	20.6
3 12	8 52.59	+16 7.9	1.958	2.789	13.4	20.8

492126 2013 LT_{24} 2 7.0 170°.99 6°.6/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.54	− 6 16.7	2.328	3.030	14.9	22.2
1 12	9 39.71	− 6 40.8	2.236	3.034	12.7	22.0
1 22	9 32.95	− 6 44.9	2.164	3.037	10.2	21.8
2 1	9 24.78	− 6 27.7	2.118	3.039	7.9	21.7
2 11	9 15.98	− 5 49.9	2.098	3.041	6.6	21.6
2 21	9 7.42	− 4 55.1	2.108	3.043	7.3	21.7
3 2	8 59.95	− 3 48.4	2.145	3.044	9.4	21.8
3 12	8 54.25	− 2 36.4	2.208	3.044	11.9	22.0

24974 Macúch 2 7.0 156°.29 1°.9/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.35	+ 7 12.4	1.871	2.647	15.6	19.5
1 12	9 42.99	+ 7 40.8	1.789	2.656	12.2	19.3
1 22	9 35.22	+ 8 26.4	1.730	2.665	8.2	19.1
2 1	9 25.69	+ 9 25.8	1.698	2.672	4.0	18.9
2 11	9 15.40	+10 33.5	1.696	2.679	2.3	18.7
2 21	9 5.51	+11 42.9	1.723	2.685	6.1	19.0
3 2	8 57.10	+12 47.8	1.779	2.690	10.2	19.3
3 12	8 50.98	+13 43.5	1.859	2.694	13.8	19.5

171987 2001 TZ_{200} 2 7.0 32°.79 4°.6/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.09	+25 19.4	1.886	2.713	13.5	19.5
1 12	9 39.12	+26 29.7	1.825	2.724	10.3	19.3
1 22	9 32.76	+27 42.1	1.788	2.735	7.0	19.2
2 1	9 24.72	+28 48.8	1.778	2.747	4.7	19.1
2 11	9 16.06	+29 42.4	1.797	2.759	5.6	19.1
2 21	9 7.90	+30 18.0	1.843	2.772	8.6	19.3
3 2	9 1.29	+30 33.9	1.914	2.785	11.7	19.5
3 12	8 56.97	+30 30.9	2.006	2.798	14.5	19.8

161095 2002 PL_{56} 2 7.0 88°.83 0°.0/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.21	+15 55.3	2.192	2.985	13.0	19.7
1 12	9 42.44	+15 48.7	2.117	2.998	9.9	19.6
1 22	9 34.62	+15 47.9	2.066	3.011	6.3	19.4
2 1	9 25.38	+15 50.2	2.043	3.023	2.4	19.1
2 11	9 15.65	+15 52.4	2.051	3.035	1.6	19.1
2 21	9 6.40	+15 51.8	2.089	3.048	5.5	19.4
3 2	8 58.53	+15 46.6	2.155	3.060	9.1	19.6
3 12	8 52.67	+15 35.7	2.247	3.072	12.1	19.8

141252 2001 YU_8 2 7.0 138°.45 5°.6/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 45.06	+33 49.9	2.800	3.606	10.2	20.2
1 12	9 40.05	+35 11.6	2.738	3.615	8.1	20.0
1 22	9 33.13	+36 29.5	2.702	3.623	6.4	19.9
2 1	9 24.84	+37 37.2	2.695	3.631	5.6	19.9
2 11	9 15.98	+38 29.3	2.718	3.638	6.5	20.0
2 21	9 7.44	+39 2.7	2.768	3.646	8.2	20.1
3 2	9 0.05	+39 16.6	2.844	3.653	10.2	20.2
3 12	8 54.47	+39 12.7	2.943	3.660	12.0	20.4

374119 2004 TU_{27} 2 7.0 219°.22 0°.9/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.69	+16 40.7	2.353	3.149	12.1	22.1
1 12	9 40.67	+17 8.8	2.257	3.142	9.3	21.9
1 22	9 33.62	+17 44.0	2.187	3.133	5.9	21.6
2 1	9 25.06	+18 22.6	2.145	3.124	2.3	21.4
2 11	9 15.82	+18 59.9	2.133	3.115	2.1	21.4
2 21	9 6.80	+19 31.6	2.151	3.105	5.8	21.6
3 2	8 58.92	+19 54.7	2.198	3.095	9.3	21.8
3 12	8 52.91	+20 7.8	2.270	3.084	12.3	22.0

419734 2010 VS_{51} 2 7.0 198°.22 6°.4/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.31	− 2 29.5	2.111	2.839	15.5	20.9
1 12	9 41.28	− 3 13.9	2.017	2.836	13.0	20.8
1 22	9 34.08	− 3 40.6	1.944	2.834	10.2	20.6
2 1	9 25.26	− 3 47.7	1.895	2.831	7.6	20.4
2 11	9 15.68	− 3 35.4	1.875	2.828	6.4	20.3
2 21	9 6.33	− 3 6.3	1.883	2.824	7.5	20.4
3 2	8 58.18	− 2 25.2	1.918	2.820	10.1	20.5
3 12	8 52.02	− 1 37.8	1.978	2.816	13.0	20.7

503223 2015 HL_{63} 2 7.0 5°.57 0°.0/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 41.38	+14 0.1	1.864	2.676	14.3	21.1
1 12	9 37.76	+14 17.5	1.785	2.676	10.9	20.9
1 22	9 31.90	+14 45.3	1.729	2.677	7.0	20.6
2 1	9 24.42	+15 20.0	1.699	2.679	2.7	20.4
2 11	9 16.27	+15 56.5	1.697	2.682	1.8	20.3
2 21	9 8.50	+16 29.8	1.723	2.685	6.1	20.6
3 2	9 2.11	+16 56.0	1.776	2.689	10.1	20.8
3 12	8 57.85	+17 12.7	1.852	2.693	13.6	21.1

180922 2005 LY_{16} 2 7.0 124°.42 2°.0/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.92	+18 56.4	2.260	3.060	12.5	20.5
1 12	9 42.23	+19 47.5	2.193	3.079	9.4	20.4
1 22	9 34.50	+20 44.2	2.151	3.098	5.9	20.2
2 1	9 25.35	+21 41.1	2.139	3.117	2.6	20.0
2 11	9 15.69	+22 32.5	2.156	3.134	2.9	20.1
2 21	9 6.48	+23 13.9	2.205	3.151	6.2	20.3
3 2	8 58.62	+23 42.7	2.281	3.167	9.5	20.5
3 12	8 52.75	+23 58.3	2.382	3.182	12.3	20.7

434188 2003 AD_{23} 2 7.0 69°.10 10°.7/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 39.67	+27 44.3	1.052	1.827	25.2	21.4
1 12	10 22.86	+31 59.2	1.052	1.916	19.0	21.3
1 22	10 0.53	+35 53.2	1.078	1.999	13.5	21.2
2 1	9 34.99	+38 55.1	1.135	2.077	10.8	21.3
2 11	9 9.86	+40 48.4	1.225	2.151	12.0	21.6
2 21	8 48.42	+41 37.1	1.343	2.221	15.2	22.0
3 2	8 32.56	+41 37.2	1.485	2.286	18.2	22.4
3 12	8 22.64	+41 6.6	1.646	2.347	20.6	22.8

56474 2000 GA_{109} 2 7.0 208°.94 0°.5/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.91	+14 10.5	1.791	2.593	15.2	20.3
1 12	9 42.97	+14 46.1	1.702	2.588	11.7	20.0
1 22	9 35.40	+15 34.2	1.636	2.583	7.5	19.8
2 1	9 25.83	+16 29.9	1.597	2.577	2.8	19.5
2 11	9 15.33	+17 26.5	1.587	2.570	2.2	19.4
2 21	9 5.13	+18 17.7	1.605	2.563	6.9	19.7
3 2	8 56.45	+18 58.4	1.651	2.555	11.3	19.9
3 12	8 50.23	+19 26.0	1.720	2.547	15.1	20.1

505359 2013 EO_{66} 2 7.0 247°.72 1°.3/ 5.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 38.73	+18 45.0	3.380	4.179	8.7	21.3
1 12	9 34.85	+19 25.8	3.284	4.171	6.6	21.2
1 22	9 29.64	+20 11.0	3.216	4.163	4.2	21.0
2 1	9 23.48	+20 57.5	3.177	4.155	1.8	20.8
2 11	9 16.90	+21 41.8	3.169	4.147	2.0	20.8
2 21	9 10.46	+22 20.9	3.192	4.139	4.5	21.0
3 2	9 4.73	+22 52.4	3.244	4.131	6.9	21.2
3 12	9 0.19	+23 15.1	3.322	4.122	9.1	21.3

460350 2014 RM_{35} 2 7.1 3°.53 0°.7/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.52	+12 18.2	1.524	2.341	16.7	20.6
1 12	9 39.19	+13 24.3	1.446	2.341	12.8	20.3
1 22	9 33.12	+14 48.9	1.390	2.341	8.1	20.0
2 1	9 24.98	+16 25.3	1.360	2.341	3.0	19.7
2 11	9 15.89	+18 4.1	1.358	2.341	2.5	19.7
2 21	9 7.19	+19 35.4	1.383	2.342	7.6	20.0
3 2	9 0.14	+20 51.4	1.433	2.343	12.3	20.3
3 12	8 55.72	+21 48.1	1.506	2.344	16.3	20.5

245993 2006 SZ_{279} 2 7.1 98°.00 0°.8/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 44.64	+ 8 15.2	1.871	2.658	15.2	20.5
1 12	9 40.10	+ 9 16.7	1.802	2.677	11.7	20.3
1 22	9 33.32	+10 35.4	1.755	2.695	7.6	20.1
2 1	9 24.95	+12 6.5	1.736	2.713	3.2	19.9
2 11	9 15.96	+13 42.2	1.746	2.731	1.7	19.8
2 21	9 7.42	+15 14.8	1.787	2.748	6.0	20.1
3 2	9 0.31	+16 37.5	1.855	2.765	10.0	20.4
3 12	8 55.36	+17 46.1	1.949	2.782	13.4	20.6

496261 2012 PO_{18} 2 7.1 136°.51 0°.3/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.08	+13 49.2	2.438	3.226	12.0	21.4
1 12	9 39.97	+13 56.1	2.355	3.233	9.2	21.2
1 22	9 33.03	+14 10.4	2.296	3.239	5.9	21.0
2 1	9 24.80	+14 29.5	2.267	3.246	2.3	20.8
2 11	9 16.06	+14 50.0	2.267	3.252	1.4	20.7
2 21	9 7.66	+15 8.7	2.298	3.257	5.0	21.0
3 2	9 0.39	+15 23.1	2.358	3.263	8.3	21.2
3 12	8 54.87	+15 31.3	2.443	3.268	11.2	21.4

433695 2014 WO_{252} 2 7.1 114°.09 0°.6/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.39	+10 36.8	2.144	2.927	13.6	21.6
1 12	9 41.11	+11 12.7	2.074	2.948	10.5	21.4
1 22	9 33.81	+12 0.7	2.028	2.969	6.8	21.2
2 1	9 25.11	+12 56.9	2.011	2.989	2.8	21.0
2 11	9 15.90	+13 56.0	2.023	3.008	1.5	20.9
2 21	9 7.13	+14 52.7	2.066	3.026	5.4	21.2
3 2	8 59.69	+15 42.6	2.138	3.044	9.0	21.5
3 12	8 54.21	+16 22.8	2.235	3.062	12.1	21.7

448145 2008 SE_{159} 2 7.1 114°.72 3°.0/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.02	+21 17.3	1.581	2.396	16.2	21.4
1 12	9 46.95	+21 48.4	1.516	2.409	12.3	21.2
1 22	9 37.89	+22 24.2	1.474	2.423	7.9	20.9
2 1	9 26.73	+22 57.8	1.458	2.435	3.7	20.7
2 11	9 14.85	+23 22.1	1.470	2.448	4.1	20.8
2 21	9 3.74	+23 32.5	1.511	2.460	8.3	21.0
3 2	8 54.69	+23 27.5	1.577	2.471	12.4	21.3
3 12	8 48.57	+23 8.4	1.666	2.482	16.0	21.6

306598 2000 GE_{176} 2 7.1 152°.45 4°.4/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.97	+27 35.0	2.202	3.006	12.6	20.7
1 12	9 45.51	+28 15.2	2.130	3.015	9.7	20.5
1 22	9 36.70	+28 54.3	2.083	3.022	6.7	20.3
2 1	9 26.23	+29 25.7	2.064	3.030	4.5	20.2
2 11	9 15.17	+29 44.0	2.076	3.036	5.2	20.2
2 21	9 4.65	+29 46.1	2.117	3.042	7.8	20.4
3 2	8 55.71	+29 31.8	2.185	3.048	10.8	20.6
3 12	8 49.07	+29 2.8	2.276	3.053	13.5	20.8

43864 1994 GM_3 2 7.1 232°.02 0°.6/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.08	+15 45.6	2.375	3.175	12.0	18.9
1 12	9 38.63	+16 11.6	2.286	3.171	9.1	18.7
1 22	9 32.29	+16 45.2	2.221	3.168	5.8	18.5
2 1	9 24.56	+17 22.7	2.184	3.164	2.2	18.2
2 11	9 16.23	+17 59.9	2.177	3.160	1.8	18.2
2 21	9 8.17	+18 32.6	2.200	3.156	5.5	18.5
3 2	9 1.20	+18 57.8	2.251	3.153	8.9	18.7
3 12	8 56.00	+19 13.8	2.327	3.148	11.9	18.8

440799 2006 PZ_9 2 7.1 194°.19 0°.1/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.54	+12 34.4	1.881	2.670	15.0	24.2
1 12	9 44.87	+13 16.3	1.789	2.668	11.6	24.0
1 22	9 36.58	+14 12.0	1.721	2.665	7.5	23.7
2 1	9 26.30	+15 16.7	1.681	2.660	2.9	23.4
2 11	9 15.07	+16 23.6	1.670	2.654	2.0	23.4
2 21	9 4.12	+17 26.1	1.690	2.647	6.7	23.7
3 2	8 54.66	+18 18.6	1.738	2.639	11.0	23.9
3 12	8 47.61	+18 58.0	1.810	2.630	14.8	24.1

158599 2002 TW_{65} 2 7.1 71°.10 1°.0/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.79	+11 5.5	1.309	2.124	19.0	20.4
1 12	9 43.38	+11 22.0	1.245	2.136	14.7	20.1
1 22	9 35.84	+11 56.1	1.201	2.148	9.6	19.9
2 1	9 26.01	+12 43.2	1.181	2.160	4.0	19.6
2 11	9 15.32	+13 35.9	1.187	2.172	2.2	19.5
2 21	9 5.33	+14 26.5	1.220	2.184	7.7	19.9
3 2	8 57.45	+15 8.6	1.277	2.196	12.7	20.2
3 12	8 52.62	+15 38.5	1.356	2.208	17.0	20.5

371678 2007 DO_{13} 2 7.1 330°.19 4°.8/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.14	+27 29.4	1.637	2.458	15.5	19.9
1 12	9 46.51	+27 42.9	1.556	2.450	12.0	19.6
1 22	9 37.78	+27 54.3	1.498	2.443	8.2	19.4
2 1	9 26.76	+27 56.3	1.465	2.436	5.2	19.2
2 11	9 14.83	+27 42.7	1.460	2.429	5.7	19.2
2 21	9 3.53	+27 10.8	1.483	2.423	9.3	19.4
3 2	8 54.29	+26 21.2	1.531	2.417	13.2	19.6
3 12	8 48.03	+25 17.3	1.600	2.412	16.8	19.8

464852 2005 FZ_{12} 2 7.1 278°.49 2°.0/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 42.61	+ 6 22.4	1.727	2.517	16.2	21.2
1 12	9 39.12	+ 7 0.9	1.625	2.499	12.8	20.9
1 22	9 33.08	+ 8 1.0	1.544	2.482	8.8	20.6
2 1	9 25.02	+ 9 20.3	1.490	2.464	4.3	20.3
2 11	9 15.89	+10 52.7	1.463	2.446	2.4	20.1
2 21	9 6.85	+12 29.8	1.464	2.428	6.7	20.4
3 2	8 59.16	+14 2.8	1.493	2.410	11.3	20.6
3 12	8 53.81	+15 24.6	1.545	2.392	15.5	20.8

151632 2002 XC_{4} 2 7.1 200°.71 1°.3/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.12	+ 9 12.9	1.885	2.668	15.2	20.9
1 12	9 42.99	+ 9 40.3	1.791	2.664	11.9	20.7
1 22	9 35.36	+10 23.4	1.721	2.659	7.9	20.5
2 1	9 25.84	+11 19.1	1.677	2.654	3.6	20.2
2 11	9 15.40	+12 21.8	1.663	2.647	1.9	20.1
2 21	9 5.21	+13 25.0	1.678	2.640	6.3	20.3
3 2	8 56.43	+14 23.0	1.722	2.631	10.6	20.6
3 12	8 49.96	+15 11.3	1.789	2.622	14.4	20.8

19145 1989 YC 2 7.1 82°.64 3°.8/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.12	+20 34.8	1.585	2.404	16.0	17.9
1 12	9 44.62	+22 2.7	1.537	2.433	12.0	17.7
1 22	9 36.32	+23 37.1	1.514	2.463	7.7	17.5
2 1	9 26.11	+25 8.1	1.517	2.492	4.2	17.4
2 11	9 15.31	+26 26.0	1.549	2.520	5.0	17.5
2 21	9 5.30	+27 24.0	1.609	2.548	8.8	17.8
3 2	8 57.29	+27 59.8	1.695	2.576	12.5	18.0
3 12	8 52.04	+28 14.4	1.802	2.602	15.6	18.3

421363 2013 TU_{128} 2 7.1 94°.05 1°.5/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.75	+10 13.3	2.031	2.820	14.1	20.7
1 12	9 40.09	+10 15.9	1.950	2.826	11.0	20.5
1 22	9 33.29	+10 30.2	1.892	2.831	7.3	20.3
2 1	9 24.96	+10 53.9	1.861	2.836	3.4	20.0
2 11	9 16.02	+11 23.3	1.858	2.842	1.9	19.9
2 21	9 7.44	+11 54.2	1.885	2.847	5.6	20.2
3 2	9 0.18	+12 22.5	1.940	2.853	9.4	20.4
3 12	8 54.94	+12 45.2	2.019	2.858	12.7	20.7

146315 2001 KG_{57} 2 7.1 205°.39 2°.0/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.24	+15 18.7	2.166	2.964	13.0	19.6
1 12	9 40.63	+16 59.2	2.073	2.960	9.8	19.4
1 22	9 33.79	+18 53.3	2.007	2.955	6.2	19.1
2 1	9 25.22	+20 54.1	1.970	2.949	2.6	18.9
2 11	9 15.79	+22 52.6	1.966	2.943	3.2	18.9
2 21	9 6.50	+24 40.4	1.992	2.936	7.0	19.2
3 2	8 58.38	+26 11.3	2.048	2.929	10.6	19.4
3 12	8 52.26	+27 22.4	2.128	2.921	13.8	19.6

417145 2005 VL_{93} 2 7.1 326°.15 8°.0/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.90	+30 44.2	1.612	2.449	15.0	20.2
1 12	9 40.63	+32 35.9	1.539	2.437	11.9	20.0
1 22	9 34.29	+34 28.9	1.489	2.426	9.1	19.8
2 1	9 25.53	+36 11.2	1.465	2.415	8.0	19.7
2 11	9 15.60	+37 31.1	1.468	2.405	9.4	19.8
2 21	9 6.02	+38 21.2	1.495	2.395	12.4	19.9
3 2	8 58.31	+38 39.3	1.544	2.386	15.7	20.1
3 12	8 53.56	+38 28.3	1.612	2.377	18.6	20.3

97636 2000 EC_{155} 2 7.1 331°.45 2°.0/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.92	+20 36.3	1.919	2.733	13.9	19.0
1 12	9 42.02	+20 44.1	1.833	2.726	10.6	18.8
1 22	9 34.67	+20 55.6	1.771	2.720	6.8	18.5
2 1	9 25.54	+21 6.5	1.735	2.714	2.9	18.3
2 11	9 15.65	+21 12.0	1.728	2.709	3.0	18.3
2 21	9 6.17	+21 8.8	1.750	2.704	6.9	18.5
3 2	8 58.20	+20 55.2	1.799	2.699	10.8	18.7
3 12	8 52.56	+20 31.2	1.871	2.694	14.2	18.9

293743 2007 RL_{45} 2 7.1 170°.88 3°.3/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.40	+ 4 32.3	1.905	2.673	15.6	21.1
1 12	9 41.53	+ 4 36.4	1.818	2.676	12.5	20.9
1 22	9 34.34	+ 4 58.1	1.753	2.679	8.8	20.7
2 1	9 25.41	+ 5 36.1	1.714	2.681	5.1	20.4
2 11	9 15.73	+ 6 26.5	1.704	2.683	3.4	20.3
2 21	9 6.37	+ 7 23.9	1.723	2.684	6.2	20.5
3 2	8 58.39	+ 8 22.3	1.770	2.684	10.0	20.7
3 12	8 52.59	+ 9 16.4	1.841	2.684	13.6	21.0

353663 2011 UA_{176} 2 7.1 228°.56 2°.2/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.71	+19 41.2	1.796	2.604	14.9	21.2
1 12	9 45.21	+20 9.8	1.704	2.595	11.4	20.9
1 22	9 36.91	+20 45.1	1.636	2.585	7.3	20.7
2 1	9 26.47	+21 21.3	1.595	2.574	3.2	20.4
2 11	9 15.03	+21 51.8	1.583	2.562	3.4	20.4
2 21	9 3.93	+22 11.5	1.600	2.550	7.7	20.6
3 2	8 54.46	+22 17.5	1.643	2.538	12.0	20.8
3 12	8 47.61	+22 9.5	1.709	2.525	15.7	21.0

299368 2005 UL_{84} 2 7.1 62°.35 2°.8/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 42.78	+23 3.9	2.503	3.315	11.1	21.0
1 12	9 38.31	+23 45.6	2.430	3.321	8.4	20.8
1 22	9 32.02	+24 29.8	2.381	3.328	5.5	20.6
2 1	9 24.45	+25 11.5	2.362	3.335	3.1	20.5
2 11	9 16.40	+25 46.2	2.371	3.342	3.6	20.5
2 21	9 8.69	+26 10.3	2.411	3.349	6.3	20.7
3 2	9 2.10	+26 22.1	2.478	3.357	9.1	20.9
3 12	8 57.26	+26 21.4	2.568	3.364	11.6	21.1

39895 1998 FK_{15} 2 7.1 322°.57 2°.6/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 41.03	+ 7 6.2	1.355	2.167	18.6	18.7
1 12	9 38.48	+ 7 19.2	1.265	2.152	14.8	18.4
1 22	9 32.95	+ 7 54.9	1.196	2.137	10.2	18.1
2 1	9 25.05	+ 8 51.6	1.149	2.124	5.2	17.8
2 11	9 15.93	+10 3.5	1.127	2.110	3.0	17.6
2 21	9 7.04	+11 21.8	1.131	2.098	7.7	17.8
3 2	8 59.87	+12 37.2	1.159	2.086	12.9	18.1
3 12	8 55.56	+13 42.0	1.209	2.075	17.6	18.3

18595 1998 BR_{1} 2 7.1 115°.66 3°.3/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.61	+21 50.0	1.864	2.673	14.4	18.1
1 12	9 45.45	+22 44.5	1.804	2.694	10.9	17.9
1 22	9 36.74	+23 43.2	1.768	2.715	7.0	17.7
2 1	9 26.29	+24 38.7	1.760	2.735	3.7	17.6
2 11	9 15.24	+25 24.1	1.781	2.754	4.3	17.6
2 21	9 4.86	+25 54.6	1.832	2.773	7.7	17.9
3 2	8 56.23	+26 8.3	1.909	2.790	11.3	18.1
3 12	8 50.12	+26 6.2	2.010	2.807	14.3	18.4

110392 2001 TA_{8} 2 7.1 76°.30 0°.1/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.25	+12 23.6	1.781	2.582	15.3	20.0
1 12	9 41.36	+12 56.2	1.720	2.605	11.7	19.8
1 22	9 34.12	+13 41.3	1.682	2.627	7.5	19.6
2 1	9 25.28	+14 34.1	1.671	2.650	2.9	19.3
2 11	9 15.89	+15 28.3	1.688	2.672	1.8	19.3
2 21	9 7.10	+16 18.1	1.734	2.695	6.2	19.6
3 2	8 59.89	+16 59.0	1.807	2.717	10.2	19.9
3 12	8 54.98	+17 28.7	1.904	2.738	13.6	20.2

27332 Happritchard 2 7.1 270°.18 2°.4/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.52	+ 6 59.3	1.815	2.602	15.6	19.1
1 12	9 39.61	+ 7 13.6	1.718	2.590	12.4	18.9
1 22	9 33.28	+ 7 45.4	1.644	2.579	8.5	18.6
2 1	9 25.08	+ 8 32.7	1.595	2.568	4.4	18.3
2 11	9 15.96	+ 9 31.1	1.574	2.556	2.6	18.2
2 21	9 7.04	+10 34.4	1.581	2.545	6.3	18.4
3 2	8 59.46	+11 36.1	1.616	2.533	10.6	18.6
3 12	8 54.11	+12 30.8	1.674	2.522	14.5	18.8

457251 2008 QC_{15} 2 7.1 208°.38 5°.2/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 41.88	− 5 8.1	2.568	3.276	13.5	21.6
1 12	9 37.61	− 4 59.4	2.464	3.270	11.4	21.4
1 22	9 31.62	− 4 31.1	2.382	3.264	9.0	21.3
2 1	9 24.35	− 3 42.9	2.325	3.258	6.6	21.1
2 11	9 16.47	− 2 36.7	2.296	3.251	5.3	21.0
2 21	9 8.74	− 1 16.8	2.298	3.243	6.1	21.0
3 2	9 1.93	+ 0 11.3	2.329	3.235	8.4	21.2
3 12	8 56.66	+ 1 41.2	2.386	3.227	11.0	21.3

284084 2005 JT_{93} 2 7.1 218°.48 6°.3/31.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.91	+36 28.9	2.799	3.600	10.3	21.2
1 12	9 41.63	+37 43.3	2.723	3.593	8.4	21.0
1 22	9 34.27	+38 52.8	2.673	3.585	6.9	20.9
2 1	9 25.38	+39 50.9	2.651	3.577	6.3	20.9
2 11	9 15.80	+40 32.1	2.658	3.568	7.1	20.9
2 21	9 6.50	+40 53.1	2.693	3.560	8.8	21.0
3 2	8 58.39	+40 53.6	2.752	3.550	10.8	21.1
3 12	8 52.20	+40 35.4	2.834	3.541	12.7	21.3

19272 1995 WO_{15} 2 7.1 343°.11 1°.3/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.92	+17 4.3	1.908	2.719	14.0	19.2
1 12	9 40.49	+17 33.9	1.826	2.718	10.7	19.0
1 22	9 33.70	+18 11.8	1.768	2.717	6.8	18.7
2 1	9 25.18	+18 53.3	1.737	2.717	2.6	18.5
2 11	9 15.94	+19 32.6	1.734	2.716	2.5	18.4
2 21	9 7.07	+20 4.7	1.760	2.716	6.7	18.7
3 2	8 59.63	+20 26.1	1.813	2.716	10.6	18.9
3 12	8 54.43	+20 35.5	1.889	2.715	14.0	19.1

126643 2002 CJ_{176} 2 7.1 119°.07 1°.8/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.51	+17 13.9	1.742	2.550	15.3	20.7
1 12	9 44.04	+18 1.0	1.675	2.566	11.6	20.5
1 22	9 35.96	+18 57.1	1.632	2.581	7.3	20.3
2 1	9 26.04	+19 55.8	1.616	2.596	2.9	20.0
2 11	9 15.44	+20 49.9	1.629	2.610	3.0	20.1
2 21	9 5.42	+21 33.4	1.671	2.624	7.3	20.3
3 2	8 57.13	+22 2.8	1.740	2.637	11.3	20.6
3 12	8 51.38	+22 17.3	1.832	2.650	14.7	20.9

163735 2003 KN_7 2 7.1 193°.22 0°.1/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.46	+12 25.6	1.848	2.646	14.9	21.0
1 12	9 41.78	+13 11.1	1.761	2.644	11.5	20.7
1 22	9 34.62	+14 10.8	1.697	2.643	7.4	20.5
2 1	9 25.58	+15 20.0	1.660	2.640	2.8	20.2
2 11	9 15.69	+16 31.7	1.653	2.637	1.9	20.1
2 21	9 6.10	+17 39.0	1.675	2.634	6.6	20.4
3 2	8 57.94	+18 36.1	1.724	2.630	10.9	20.7
3 12	8 52.10	+19 19.7	1.797	2.625	14.5	20.9

43803 1991 RH_2 2 7.1 101°.75 3°.2/ 4.7 18

1 2	9 47.34	+24 28.3	2.279	3.088	12.1	18.6
1 12	9 41.90	+24 57.5	2.207	3.097	9.2	18.4
1 22	9 34.36	+25 27.7	2.160	3.105	6.1	18.2
2 1	9 25.38	+25 53.6	2.141	3.113	3.5	18.1
2 11	9 15.88	+26 10.6	2.151	3.122	4.0	18.1
2 21	9 6.84	+26 15.6	2.191	3.130	6.8	18.3
3 2	8 59.17	+26 7.8	2.259	3.138	9.9	18.5
3 12	8 53.54	+25 47.7	2.350	3.146	12.6	18.7

346820 2009 CA_{59} 2 7.1 271°.78 0°.6/ 7.5 17

1 2	9 43.34	+12 43.2	2.368	3.158	12.3	21.5
1 12	9 38.87	+12 49.9	2.271	3.150	9.5	21.3
1 22	9 32.49	+13 5.3	2.199	3.141	6.2	21.1
2 1	9 24.71	+13 27.1	2.155	3.133	2.6	20.8
2 11	9 16.30	+13 51.7	2.140	3.125	1.5	20.7
2 21	9 8.11	+14 15.8	2.155	3.116	5.2	21.0
3 2	9 1.00	+14 36.1	2.199	3.108	8.7	21.2
3 12	8 55.63	+14 50.4	2.267	3.099	11.8	21.4

453025 2007 RM_{138} 2 7.1 121°.09 1°.5/ 6.1 18

1 2	9 51.35	+17 56.1	1.918	2.718	14.4	21.9
1 12	9 45.15	+18 24.5	1.851	2.737	10.9	21.7
1 22	9 36.53	+18 59.5	1.809	2.756	6.9	21.5
2 1	9 26.23	+19 35.8	1.794	2.773	2.7	21.3
2 11	9 15.37	+20 7.8	1.808	2.790	2.6	21.3
2 21	9 5.10	+20 31.1	1.853	2.806	6.6	21.6
3 2	8 56.49	+20 43.3	1.925	2.821	10.4	21.8
3 12	8 50.27	+20 44.1	2.022	2.836	13.7	22.1

215844 2005 CA_{63} 2 7.1 214°.96 1°.2/ 6.1 17

1 2	9 43.63	+17 6.4	2.280	3.084	12.3	20.7
1 12	9 39.17	+17 41.9	2.193	3.081	9.3	20.5
1 22	9 32.71	+18 24.8	2.131	3.079	5.9	20.3
2 1	9 24.80	+19 10.8	2.096	3.076	2.3	20.0
2 11	9 16.26	+19 54.8	2.092	3.074	2.3	20.0
2 21	9 7.99	+20 32.3	2.117	3.071	5.9	20.2
3 2	9 0.88	+21 0.2	2.170	3.068	9.4	20.4
3 12	8 55.63	+21 16.9	2.248	3.064	12.4	20.6

42335 2001 XX_{232} 2 7.1 162°.42 0°.5/ 6.7 18

1 2	9 50.01	+14 55.7	2.061	2.852	13.8	20.6
1 12	9 44.12	+15 26.2	1.979	2.860	10.6	20.4
1 22	9 35.91	+16 6.0	1.922	2.867	6.7	20.2
2 1	9 26.04	+16 50.6	1.893	2.873	2.5	20.0
2 11	9 15.48	+17 34.6	1.895	2.878	2.0	19.9
2 21	9 5.32	+18 12.9	1.927	2.883	6.1	20.2
3 2	8 56.59	+18 42.1	1.987	2.886	10.0	20.4
3 12	8 50.06	+19 0.5	2.072	2.889	13.3	20.7

87913 2000 SU_{313} 2 7.1 213°.97 2°.5/ 8.9 17

1 2	9 46.66	+ 6 54.6	2.510	3.269	12.5	20.6
1 12	9 41.27	+ 6 42.5	2.406	3.261	9.9	20.4
1 22	9 33.98	+ 6 41.4	2.327	3.253	7.0	20.2
2 1	9 25.29	+ 6 50.2	2.275	3.243	3.9	20.0
2 11	9 15.94	+ 7 7.0	2.254	3.233	2.6	19.9
2 21	9 6.77	+ 7 28.8	2.264	3.223	5.1	20.0
3 2	8 58.61	+ 7 52.4	2.303	3.211	8.4	20.2
3 12	8 52.15	+ 8 14.7	2.368	3.200	11.4	20.4

223766 2004 RP_{257} 2 7.1 154°.87 2°.5/ 5.2 18

1 2	9 46.83	+21 14.8	2.180	2.988	12.6	20.2
1 12	9 41.66	+21 53.1	2.102	2.992	9.6	20.0
1 22	9 34.31	+22 35.5	2.049	2.996	6.1	19.8
2 1	9 25.41	+23 16.9	2.024	3.000	3.0	19.6
2 11	9 15.89	+23 51.6	2.028	3.004	3.4	19.7
2 21	9 6.76	+24 15.7	2.062	3.007	6.7	19.9
3 2	8 58.99	+24 26.9	2.124	3.010	10.1	20.1
3 12	8 53.28	+24 25.0	2.209	3.012	13.0	20.3

46927 1998 SP_{54} 2 7.1 29°.70 2°.8/ 8.8 18

1 2	9 42.28	+ 7 7.5	1.228	2.045	19.9	18.4
1 12	9 39.25	+ 7 15.2	1.171	2.060	15.6	18.2
1 22	9 33.22	+ 7 45.6	1.134	2.076	10.6	17.9
2 1	9 25.06	+ 8 35.2	1.119	2.093	5.4	17.7
2 11	9 16.15	+ 9 37.1	1.128	2.112	3.1	17.6
2 21	9 7.95	+10 42.5	1.164	2.131	7.5	17.9
3 2	9 1.78	+11 43.1	1.223	2.151	12.3	18.2
3 12	8 58.50	+12 33.0	1.304	2.172	16.5	18.5

26393 Scaffa 2 7.1 17°.75 2°.1/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 45.03	+16 47.3	1.116	1.959	19.7	18.3
1 12	9 41.95	+17 29.1	1.053	1.962	15.0	18.0
1 22	9 35.30	+18 25.7	1.010	1.966	9.6	17.7
2 1	9 25.98	+19 28.8	0.990	1.970	3.8	17.4
2 11	9 15.56	+20 27.7	0.994	1.976	3.8	17.4
2 21	9 5.87	+21 13.3	1.022	1.982	9.5	17.8
3 2	8 58.57	+21 40.2	1.073	1.989	14.9	18.1
3 12	8 54.72	+21 47.2	1.143	1.997	19.4	18.4

467669 2008 UH_{116} 2 7.1 73°.24 4°.4/ 3.9 18

1 2	9 47.34	+26 55.3	2.067	2.883	12.9	20.9
1 12	9 42.18	+27 40.3	2.000	2.891	9.9	20.8
1 22	9 34.69	+28 25.1	1.957	2.899	6.8	20.6
2 1	9 25.56	+29 3.1	1.941	2.908	4.6	20.5
2 11	9 15.85	+29 28.4	1.954	2.916	5.3	20.5
2 21	9 6.66	+29 37.6	1.996	2.925	8.0	20.7
3 2	8 59.00	+29 29.9	2.063	2.933	11.1	20.9
3 12	8 53.61	+29 6.7	2.154	2.941	13.8	21.1

348582 2005 WN_{90} 2 7.1 128°.84 1°.5/ 7.9 18

1 2	9 50.82	+10 16.9	1.704	2.493	16.4	21.5
1 12	9 45.03	+10 21.7	1.632	2.507	12.7	21.3
1 22	9 36.63	+10 40.4	1.582	2.521	8.4	21.1
2 1	9 26.34	+11 9.8	1.558	2.534	3.8	20.8
2 11	9 15.35	+11 45.0	1.563	2.547	2.1	20.7
2 21	9 4.92	+12 20.8	1.596	2.558	6.5	21.1
3 2	8 56.23	+12 52.4	1.658	2.569	10.8	21.3
3 12	8 50.08	+13 16.6	1.742	2.580	14.5	21.6

19847 2000 ST_{339} 2 7.1 348°.40 4°.7/ 9.3 18

1 2	9 41.07	+ 6 13.0	1.161	1.981	20.6	17.3
1 12	9 38.82	+ 5 38.7	1.084	1.972	16.6	17.0
1 22	9 33.32	+ 5 25.8	1.024	1.964	11.9	16.7
2 1	9 25.26	+ 5 35.2	0.986	1.957	7.0	16.4
2 11	9 15.98	+ 6 3.8	0.972	1.952	4.8	16.3
2 21	9 7.12	+ 6 45.3	0.981	1.948	8.6	16.5
3 2	9 0.28	+ 7 31.8	1.012	1.945	13.7	16.8
3 12	8 56.60	+ 8 15.1	1.064	1.944	18.4	17.0

321251 2009 BP_{177} 2 7.1 51°.24 1°.5/ 8.3 18

1 2	9 42.08	+ 9 13.2	2.275	3.059	12.9	20.9
1 12	9 37.89	+ 9 21.5	2.191	3.063	10.1	20.7
1 22	9 31.85	+ 9 41.5	2.131	3.067	6.8	20.5
2 1	9 24.47	+10 10.9	2.097	3.072	3.2	20.3
2 11	9 16.55	+10 46.3	2.093	3.076	1.9	20.2
2 21	9 8.93	+11 23.6	2.119	3.081	5.1	20.4
3 2	9 2.41	+11 58.9	2.172	3.086	8.5	20.6
3 12	8 57.65	+12 29.1	2.251	3.091	11.6	20.8

424317 2007 TY_{427} 2 7.1 99°.59 4°.9/ 2.8 18

1 2	9 45.69	+29 5.7	2.309	3.124	11.8	21.0
1 12	9 40.82	+30 3.5	2.238	3.127	9.1	20.8
1 22	9 33.80	+31 0.0	2.193	3.130	6.5	20.7
2 1	9 25.23	+31 48.8	2.175	3.134	5.0	20.6
2 11	9 16.07	+32 24.0	2.186	3.137	5.7	20.6
2 21	9 7.31	+32 42.2	2.225	3.141	8.1	20.8
3 2	8 59.90	+32 42.3	2.291	3.144	10.8	21.0
3 12	8 54.55	+32 25.7	2.379	3.147	13.2	21.1

122036 2000 GK_{69} 2 7.1 188°.16 1°.6/ 8.3 18

1 2	9 45.20	+ 8 50.2	2.180	2.958	13.6	20.1
1 12	9 40.41	+ 9 6.1	2.088	2.958	10.6	19.9
1 22	9 33.55	+ 9 35.0	2.021	2.957	7.1	19.7
2 1	9 25.16	+10 14.5	1.981	2.955	3.4	19.5
2 11	9 16.10	+11 0.5	1.970	2.953	1.9	19.4
2 21	9 7.30	+11 48.3	1.989	2.951	5.4	19.6
3 2	8 59.68	+12 33.4	2.037	2.948	9.1	19.8
3 12	8 53.98	+13 12.1	2.110	2.945	12.4	20.0

127928 2003 GW_{49} 2 7.1 12°.75 5°.8/11.7 18

1 2	9 41.07	− 2 17.6	1.764	2.518	17.3	19.7
1 12	9 37.69	− 2 18.0	1.679	2.518	14.3	19.5
1 22	9 32.01	− 1 53.9	1.614	2.520	11.0	19.3
2 1	9 24.61	− 1 4.8	1.572	2.521	7.6	19.1
2 11	9 16.45	+ 0 6.1	1.557	2.523	5.8	19.0
2 21	9 8.58	+ 1 32.5	1.569	2.525	7.3	19.1
3 2	9 2.07	+ 3 6.2	1.607	2.527	10.5	19.3
3 12	8 57.73	+ 4 38.5	1.670	2.530	13.9	19.5

42875 1999 RO_{128} 2 7.1 80°.22 2°.1/ 8.2 18

1 2	9 47.91	+ 9 54.3	1.587	2.385	17.0	18.5
1 12	9 43.07	+ 9 44.3	1.512	2.391	13.3	18.3
1 22	9 35.51	+ 9 48.6	1.458	2.398	8.9	18.0
2 1	9 25.96	+10 5.1	1.429	2.405	4.3	17.8
2 11	9 15.62	+10 29.5	1.428	2.412	2.5	17.7
2 21	9 5.80	+10 56.9	1.455	2.419	6.8	17.9
3 2	8 57.72	+11 22.4	1.508	2.425	11.2	18.2
3 12	8 52.26	+11 42.2	1.583	2.432	15.1	18.5

500433 2012 TO_{152} 2 7.1 143°.94 1°.6/ 5.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 44.35	+19 28.6	2.702	3.501	10.7	23.0
1 12	9 39.35	+19 59.3	2.623	3.509	8.1	22.8
1 22	9 32.65	+20 34.1	2.570	3.516	5.1	22.6
2 1	9 24.76	+21 9.0	2.545	3.524	2.2	22.4
2 11	9 16.41	+21 40.3	2.552	3.530	2.4	22.4
2 21	9 8.37	+22 4.6	2.589	3.537	5.3	22.6
3 2	9 1.37	+22 19.8	2.654	3.543	8.2	22.8
3 12	8 55.98	+22 25.3	2.745	3.549	10.7	23.0

49639 1999 JJ_{17} 2 7.1 25°.19 5°.7/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.20	+26 30.7	1.775	2.608	14.0	17.7
1 12	9 38.73	+28 7.8	1.717	2.617	10.7	17.5
1 22	9 32.73	+29 46.9	1.682	2.627	7.5	17.4
2 1	9 24.89	+31 18.6	1.675	2.638	5.7	17.3
2 11	9 16.32	+32 33.8	1.696	2.649	6.9	17.4
2 21	9 8.25	+33 26.5	1.743	2.661	9.7	17.6
3 2	9 1.79	+33 54.6	1.814	2.674	12.9	17.8
3 12	8 57.76	+33 59.6	1.906	2.687	15.6	18.0

272553 2005 UL_{431} 2 7.1 208°.42 1°.2/ 6.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.06	+16 32.2	2.014	2.820	13.6	21.5
1 12	9 40.54	+17 10.9	1.929	2.818	10.3	21.2
1 22	9 33.75	+17 58.5	1.867	2.816	6.6	21.0
2 1	9 25.28	+18 50.4	1.833	2.813	2.6	20.7
2 11	9 16.07	+19 40.5	1.829	2.811	2.5	20.7
2 21	9 7.17	+20 23.5	1.853	2.808	6.5	21.0
3 2	8 59.60	+20 55.5	1.905	2.805	10.3	21.2
3 12	8 54.17	+21 14.8	1.981	2.802	13.6	21.4

134088 Brettperkins 2 7.1 24°.35 5°.4/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.61	+24 54.4	1.397	2.239	16.5	18.5
1 12	9 40.20	+26 2.9	1.347	2.254	12.5	18.3
1 22	9 33.79	+27 13.9	1.319	2.270	8.4	18.1
2 1	9 25.30	+28 17.8	1.316	2.287	5.5	17.9
2 11	9 16.11	+29 5.2	1.339	2.305	6.5	18.0
2 21	9 7.71	+29 30.6	1.387	2.324	10.0	18.3
3 2	9 1.37	+29 32.9	1.458	2.345	13.8	18.6
3 12	8 57.89	+29 14.3	1.550	2.366	17.0	18.8

184721 2005 SG_{163} 2 7.1 182°.83 2°.7/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.20	+ 4 22.6	2.357	3.115	13.3	21.5
1 12	9 39.50	+ 4 37.8	2.263	3.116	10.6	21.3
1 22	9 32.90	+ 5 8.2	2.193	3.116	7.5	21.1
2 1	9 24.91	+ 5 52.2	2.149	3.116	4.3	20.9
2 11	9 16.31	+ 6 46.4	2.136	3.115	2.8	20.8
2 21	9 7.93	+ 7 46.2	2.153	3.113	5.2	21.0
3 2	9 0.61	+ 8 46.5	2.199	3.111	8.5	21.2
3 12	8 55.03	+ 9 42.8	2.271	3.108	11.5	21.4

283497 2001 SL_{183} 2 7.1 185°.16 1°.4/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.70	+17 19.8	1.974	2.773	14.1	22.6
1 12	9 44.88	+17 55.0	1.888	2.773	10.8	22.4
1 22	9 36.55	+18 38.4	1.826	2.773	6.9	22.1
2 1	9 26.37	+19 24.7	1.792	2.772	2.7	21.9
2 11	9 15.38	+20 7.9	1.788	2.770	2.7	21.9
2 21	9 4.75	+20 42.6	1.814	2.767	6.8	22.1
3 2	8 55.62	+21 5.6	1.868	2.763	10.8	22.3
3 12	8 48.83	+21 15.8	1.946	2.758	14.2	22.6

497970 2007 BB_{39} 2 7.1 294°.21 3°.2/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.45	+ 8 24.7	1.803	2.588	15.8	20.9
1 12	9 42.78	+ 7 48.8	1.695	2.565	12.6	20.6
1 22	9 35.47	+ 7 24.3	1.610	2.543	8.9	20.4
2 1	9 26.06	+ 7 11.2	1.550	2.520	4.9	20.1
2 11	9 15.53	+ 7 7.9	1.518	2.498	3.4	19.9
2 21	9 5.12	+ 7 11.9	1.514	2.475	6.9	20.1
3 2	8 56.06	+ 7 19.5	1.537	2.453	11.2	20.3
3 12	8 49.38	+ 7 27.1	1.584	2.430	15.2	20.5

165801 2001 RO_{52} 2 7.1 106°.16 1°.9/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.95	+19 36.3	2.351	3.158	11.8	20.3
1 12	9 39.31	+20 15.8	2.275	3.165	8.9	20.1
1 22	9 32.76	+21 0.3	2.225	3.173	5.7	19.9
2 1	9 24.85	+21 45.1	2.202	3.180	2.6	19.7
2 11	9 16.41	+22 25.4	2.210	3.188	2.8	19.7
2 21	9 8.32	+22 57.1	2.247	3.195	6.0	20.0
3 2	9 1.41	+23 17.7	2.312	3.202	9.2	20.2
3 12	8 56.34	+23 26.4	2.402	3.210	12.0	20.4

92876 2000 QY_{217} 2 7.1 335°.13 6°.0/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.49	+28 37.7	1.736	2.564	14.5	17.9
1 12	9 42.20	+29 40.5	1.662	2.558	11.3	17.6
1 22	9 35.09	+30 43.3	1.611	2.552	8.1	17.4
2 1	9 25.86	+31 37.4	1.585	2.547	6.1	17.3
2 11	9 15.74	+32 14.6	1.587	2.543	7.0	17.4
2 21	9 6.09	+32 29.6	1.616	2.538	10.1	17.5
3 2	8 58.22	+32 21.6	1.668	2.534	13.4	17.7
3 12	8 53.06	+31 52.7	1.741	2.531	16.5	17.9

454400 2014 NK_{31} 2 7.1 135°.06 0°.3/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.80	+12 55.7	1.868	2.666	14.8	21.5
1 12	9 41.90	+13 42.9	1.793	2.677	11.3	21.3
1 22	9 34.62	+14 42.9	1.742	2.687	7.2	21.1
2 1	9 25.62	+15 50.7	1.717	2.697	2.7	20.8
2 11	9 15.92	+16 59.4	1.722	2.706	1.9	20.8
2 21	9 6.64	+18 2.4	1.757	2.715	6.4	21.1
3 2	8 58.84	+18 54.7	1.819	2.723	10.4	21.3
3 12	8 53.31	+19 33.5	1.905	2.731	13.9	21.6

282672 2005 WZ_{2} 2 7.1 129°.18 1°.5/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.63	+ 8 27.7	1.728	2.514	16.3	21.4
1 12	9 43.39	+ 8 58.5	1.656	2.529	12.7	21.2
1 22	9 35.61	+ 9 46.3	1.605	2.544	8.4	20.9
2 1	9 26.00	+10 47.2	1.581	2.557	3.8	20.7
2 11	9 15.68	+11 54.8	1.586	2.570	2.1	20.6
2 21	9 5.86	+13 2.1	1.621	2.583	6.4	20.9
3 2	8 57.67	+14 2.9	1.682	2.594	10.6	21.2
3 12	8 51.92	+14 52.9	1.768	2.605	14.3	21.4

46756 1998 FP_{55} 2 7.1 304°.20 1°.5/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.87	+16 10.8	1.468	2.293	16.8	19.2
1 12	9 41.35	+16 46.4	1.380	2.278	12.9	18.9
1 22	9 34.80	+17 35.3	1.312	2.264	8.3	18.6
2 1	9 25.86	+18 31.7	1.269	2.250	3.2	18.3
2 11	9 15.72	+19 27.5	1.253	2.236	3.0	18.2
2 21	9 5.85	+20 15.0	1.264	2.223	8.3	18.5
3 2	8 57.75	+20 48.4	1.299	2.209	13.3	18.8
3 12	8 52.52	+21 5.2	1.355	2.197	17.6	19.0

67301 2000 GR_{114} 2 7.1 139°.60 7°.1/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.75	+29 45.3	1.503	2.329	16.4	19.7
1 12	9 47.35	+30 55.9	1.439	2.333	12.8	19.5
1 22	9 38.55	+32 5.0	1.396	2.336	9.3	19.3
2 1	9 27.23	+33 1.7	1.379	2.339	7.2	19.2
2 11	9 14.92	+33 35.9	1.389	2.341	8.2	19.2
2 21	9 3.36	+33 42.8	1.424	2.344	11.4	19.4
3 2	8 54.11	+33 22.6	1.483	2.346	15.0	19.6
3 12	8 48.15	+32 39.9	1.562	2.348	18.2	19.9

460088 2014 OM_{373} 2 7.1 156°.77 0°.2/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.09	+12 44.7	2.047	2.836	14.0	22.8
1 12	9 42.69	+13 9.5	1.966	2.844	10.7	22.6
1 22	9 35.04	+13 45.1	1.908	2.851	6.9	22.4
2 1	9 25.78	+14 27.7	1.878	2.857	2.7	22.1
2 11	9 15.85	+15 12.4	1.879	2.863	1.6	22.1
2 21	9 6.30	+15 54.1	1.909	2.868	5.9	22.4
3 2	8 58.13	+16 28.8	1.967	2.873	9.7	22.6
3 12	8 52.08	+16 54.1	2.050	2.876	13.1	22.8

117041 2004 JX_{25} 2 7.1 135°.36 7°.3/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.25	+37 11.0	2.349	3.148	12.1	20.0
1 12	9 45.92	+38 32.9	2.295	3.162	9.9	19.8
1 22	9 37.12	+39 47.4	2.266	3.176	8.0	19.8
2 1	9 26.56	+40 46.3	2.265	3.189	7.3	19.7
2 11	9 15.37	+41 23.5	2.292	3.201	8.1	19.8
2 21	9 4.75	+41 36.1	2.347	3.212	10.0	19.9
3 2	8 55.78	+41 24.9	2.425	3.223	12.1	20.1
3 12	8 49.24	+40 53.6	2.525	3.234	14.0	20.3

496433 2014 LB_{1} 2 7.1 155°.07 0°.4/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.17	+12 1.8	2.206	2.989	13.3	23.0
1 12	9 42.57	+12 27.1	2.124	2.999	10.2	22.8
1 22	9 34.88	+13 3.1	2.067	3.008	6.6	22.6
2 1	9 25.70	+13 46.1	2.038	3.016	2.7	22.3
2 11	9 15.91	+14 31.5	2.039	3.024	1.5	22.3
2 21	9 6.48	+15 14.7	2.071	3.030	5.5	22.5
3 2	8 58.33	+15 51.8	2.132	3.036	9.1	22.8
3 12	8 52.16	+16 20.2	2.218	3.041	12.3	23.0

284330 2006 RY_{12} 2 7.1 112°.90 2°.5/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.04	+ 7 19.1	2.362	3.132	12.9	20.6
1 12	9 39.32	+ 7 5.1	2.274	3.135	10.2	20.4
1 22	9 32.76	+ 7 2.3	2.209	3.138	7.1	20.2
2 1	9 24.88	+ 7 9.7	2.171	3.140	3.9	20.0
2 11	9 16.44	+ 7 25.1	2.163	3.143	2.6	19.9
2 21	9 8.28	+ 7 45.3	2.185	3.145	5.1	20.1
3 2	9 1.21	+ 8 7.3	2.235	3.147	8.4	20.3
3 12	8 55.87	+ 8 27.6	2.310	3.150	11.3	20.5

87102 2000 LT_{17} 2 7.1 236°.99 0°.9/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.72	+ 8 54.0	2.203	2.984	13.4	20.1
1 12	9 39.44	+ 9 39.1	2.100	2.972	10.4	19.8
1 22	9 33.06	+10 39.7	2.020	2.959	6.9	19.6
2 1	9 25.07	+11 52.5	1.968	2.945	3.0	19.3
2 11	9 16.27	+13 12.2	1.946	2.931	1.6	19.2
2 21	9 7.59	+14 32.4	1.955	2.916	5.6	19.4
3 2	8 59.98	+15 47.0	1.992	2.901	9.5	19.6
3 12	8 54.24	+16 51.6	2.055	2.885	12.9	19.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
174668 2003 SQ_{233}			2 7.1 157°.88		0°.9/ 6.4 18	
	h m	° ′			°	m
1 2	9 48.07	+15 16.2	2.124	2.918	13.4	21.4
1 12	9 42.63	+15 58.3	2.044	2.927	10.2	21.2
1 22	9 34.99	+16 49.6	1.989	2.934	6.5	21.0
2 1	9 25.76	+17 45.5	1.962	2.941	2.5	20.8
2 11	9 15.87	+18 40.1	1.965	2.948	2.1	20.8
2 21	9 6.35	+19 28.2	1.998	2.953	6.1	21.0
3 2	8 58.18	+20 5.9	2.060	2.957	9.8	21.3
3 12	8 52.09	+20 31.6	2.146	2.961	13.0	21.5
194269 2001 UU_{7}			2 7.1 66°.17		1°.7/ 7.9 18	
1 2	9 49.31	+11 5.7	1.381	2.189	18.5	20.0
1 12	9 44.46	+10 55.0	1.314	2.200	14.4	19.7
1 22	9 36.55	+10 59.1	1.267	2.210	9.6	19.5
2 1	9 26.43	+11 15.4	1.244	2.221	4.3	19.2
2 11	9 15.47	+11 38.7	1.248	2.232	2.4	19.1
2 21	9 5.19	+12 3.5	1.278	2.243	7.4	19.4
3 2	8 56.95	+12 24.9	1.334	2.254	12.2	19.7
3 12	8 51.68	+12 39.3	1.412	2.265	16.4	20.0
122915 2000 SZ_{171}			2 7.1 34°.60		2°.3/ 6.1 18	
1 2	9 52.45	+22 7.7	1.601	2.418	16.0	19.4
1 12	9 46.48	+21 56.7	1.533	2.427	12.2	19.2
1 22	9 37.63	+21 47.4	1.488	2.437	7.8	19.0
2 1	9 26.77	+21 34.7	1.469	2.448	3.4	18.7
2 11	9 15.28	+21 14.5	1.478	2.458	3.3	18.7
2 21	9 4.58	+20 44.7	1.515	2.470	7.6	19.0
3 2	8 55.92	+20 5.3	1.579	2.482	11.8	19.3
3 12	8 50.10	+19 17.9	1.665	2.494	15.5	19.5
186850 2004 GT_{34}			2 7.1 279°.18		3°.8/ 4.6 18	
1 2	9 48.27	+23 31.7	1.812	2.631	14.3	21.3
1 12	9 43.52	+24 12.6	1.718	2.613	11.1	21.0
1 22	9 35.99	+24 57.9	1.647	2.594	7.4	20.8
2 1	9 26.28	+25 40.7	1.602	2.576	4.2	20.6
2 11	9 15.50	+26 13.5	1.586	2.557	4.9	20.6
2 21	9 4.99	+26 31.0	1.597	2.539	8.6	20.7
3 2	8 56.07	+26 30.7	1.635	2.520	12.6	20.9
3 12	8 49.73	+26 13.1	1.694	2.501	16.2	21.1
52914 1998 SE_{102}			2 7.1 52°.46		3°.5/ 5.3 18	
1 2	9 49.83	+21 2.9	1.272	2.106	18.3	18.4
1 12	9 45.24	+21 42.6	1.212	2.115	13.9	18.1
1 22	9 37.22	+22 29.4	1.172	2.125	9.0	17.9
2 1	9 26.71	+23 14.7	1.157	2.135	4.3	17.6
2 11	9 15.31	+23 49.3	1.168	2.145	4.8	17.7
2 21	9 4.75	+24 7.0	1.204	2.156	9.5	18.0
3 2	8 56.56	+24 5.8	1.264	2.167	14.2	18.3
3 12	8 51.68	+23 46.9	1.344	2.178	18.2	18.6
35703 Lafiascaia			2 7.1 5°.34		0°.5/ 7.4 18	
1 2	9 43.23	+11 8.0	1.299	2.122	18.6	18.0
1 12	9 40.17	+11 41.2	1.225	2.121	14.4	17.7
1 22	9 34.03	+12 34.1	1.172	2.122	9.4	17.4
2 1	9 25.54	+13 41.7	1.143	2.122	3.8	17.1
2 11	9 16.01	+14 55.4	1.139	2.124	2.2	17.0
2 21	9 6.97	+16 5.9	1.161	2.126	7.9	17.3
3 2	8 59.88	+17 5.3	1.207	2.129	13.1	17.6
3 12	8 55.75	+17 48.8	1.274	2.132	17.5	17.9
435983 2009 DX_{131}			2 7.1 349°.24		6°.5/12.8 17	
1 2	9 37.81	− 5 15.5	1.916	2.654	16.6	20.8
1 12	9 35.12	− 5 15.1	1.824	2.647	14.0	20.6
1 22	9 30.36	− 4 49.6	1.750	2.642	11.1	20.4
2 1	9 24.03	− 3 57.7	1.700	2.637	8.2	20.2
2 11	9 16.98	− 2 41.8	1.676	2.633	6.5	20.1
2 21	9 10.15	− 1 7.6	1.678	2.630	7.4	20.2
3 2	9 4.49	+ 0 36.9	1.708	2.627	10.1	20.3
3 12	9 0.77	+ 2 22.7	1.763	2.625	13.2	20.5
54238 2000 JD_{19}			2 7.1 147°.86		1°.4/ 8.5 18	
1 2	9 41.14	+ 6 43.3	2.488	3.259	12.3	18.9
1 12	9 37.11	+ 7 33.5	2.399	3.263	9.6	18.7
1 22	9 31.35	+ 8 38.3	2.334	3.267	6.5	18.5
2 1	9 24.35	+ 9 54.6	2.297	3.271	3.1	18.3
2 11	9 16.80	+11 17.6	2.291	3.275	1.6	18.2
2 21	9 9.47	+12 41.6	2.316	3.278	4.8	18.4
3 2	9 3.11	+14 1.2	2.371	3.281	8.0	18.6
3 12	8 58.32	+15 12.1	2.452	3.284	11.0	18.8
472360 2015 BG_{30}			2 7.1 299°.07		1°.3/ 8.1 17	
1 2	9 42.45	+ 9 50.6	2.107	2.897	13.6	21.5
1 12	9 38.46	+10 3.2	2.014	2.890	10.6	21.3
1 22	9 32.40	+10 28.4	1.944	2.883	7.1	21.1
2 1	9 24.81	+11 3.8	1.900	2.876	3.3	20.8
2 11	9 16.51	+11 45.4	1.885	2.869	1.8	20.7
2 21	9 8.44	+12 28.6	1.900	2.863	5.5	20.9
3 2	9 1.54	+13 8.8	1.942	2.856	9.3	21.1
3 12	8 56.55	+13 42.5	2.009	2.850	12.7	21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
522378 2016 CD_{303}			2 7.1 282°.91		0°.7/ 6.6 17	
	h m	° ′			°	m
1 2	9 44.19	+14 41.8	1.840	2.648	14.6	22.4
1 12	9 40.24	+15 17.2	1.743	2.633	11.2	22.1
1 22	9 33.80	+16 4.8	1.669	2.618	7.2	21.8
2 1	9 25.43	+17 0.1	1.622	2.602	2.7	21.5
2 11	9 16.09	+17 56.7	1.603	2.587	2.2	21.4
2 21	9 6.94	+18 48.2	1.613	2.571	6.8	21.7
3 2	8 59.16	+19 29.6	1.649	2.556	11.2	21.9
3 12	8 53.66	+19 57.8	1.709	2.541	15.0	22.1
227888 2007 EF_{48}			2 7.1 255°.30		2°.5/ 5.3 18	
1 2	9 45.84	+20 25.3	1.946	2.761	13.7	20.5
1 12	9 41.25	+21 5.4	1.865	2.759	10.4	20.3
1 22	9 34.28	+21 51.5	1.808	2.757	6.7	20.1
2 1	9 25.54	+22 37.8	1.778	2.756	3.2	19.9
2 11	9 16.06	+23 17.9	1.777	2.754	3.6	19.9
2 21	9 6.96	+23 46.9	1.804	2.752	7.2	20.1
3 2	8 59.30	+24 2.1	1.858	2.751	11.0	20.3
3 12	8 53.90	+24 2.9	1.935	2.749	14.2	20.5
171940 2001 SK_{240}			2 7.1 189°.84		0°.3/ 6.8 17	
1 2	9 43.04	+14 43.4	2.799	3.588	10.6	21.9
1 12	9 38.38	+15 9.5	2.707	3.587	8.1	21.7
1 22	9 32.08	+15 42.7	2.641	3.585	5.2	21.5
2 1	9 24.62	+16 19.8	2.604	3.583	2.0	21.3
2 11	9 16.66	+16 57.3	2.597	3.581	1.4	21.2
2 21	9 8.91	+17 31.7	2.622	3.578	4.7	21.5
3 2	9 2.08	+18 0.2	2.675	3.575	7.7	21.7
3 12	8 56.73	+18 21.1	2.755	3.572	10.3	21.8
224663 2006 AJ_{7}			2 7.1 86°.84		4°.6/ 3.1 18	
1 2	9 47.12	+25 12.2	2.004	2.821	13.2	19.9
1 12	9 42.07	+26 39.0	1.950	2.843	10.0	19.8
1 22	9 34.67	+28 7.6	1.922	2.866	6.8	19.6
2 1	9 25.65	+29 29.7	1.922	2.888	4.7	19.5
2 11	9 16.04	+30 37.4	1.951	2.909	5.6	19.6
2 21	9 6.97	+31 26.0	2.008	2.931	8.4	19.8
3 2	8 59.45	+31 53.6	2.092	2.952	11.4	20.1
3 12	8 54.22	+32 1.7	2.198	2.972	14.0	20.3
215047 2009 DE_{17}			2 7.1 264°.82		2°.5/ 5.6 18	
1 2	9 48.72	+20 6.4	1.664	2.481	15.4	20.8
1 12	9 43.93	+20 36.2	1.577	2.473	11.8	20.6
1 22	9 36.26	+21 12.8	1.514	2.464	7.6	20.3
2 1	9 26.39	+21 50.3	1.476	2.455	3.4	20.0
2 11	9 15.51	+22 21.4	1.467	2.446	3.7	20.0
2 21	9 5.02	+22 40.8	1.485	2.437	8.1	20.3
3 2	8 56.26	+22 45.4	1.529	2.428	12.5	20.5
3 12	8 50.22	+22 35.1	1.595	2.419	16.3	20.7
237344 2010 AY_{23}			2 7.1 30°.40		0°.0/ 6.9 18	
1 2	9 49.50	+15 31.2	1.181	2.011	19.7	20.0
1 12	9 45.14	+15 23.7	1.117	2.017	15.2	19.7
1 22	9 37.25	+15 27.9	1.072	2.023	9.8	19.4
2 1	9 26.78	+15 39.2	1.050	2.031	3.8	19.1
2 11	9 15.32	+15 51.5	1.053	2.038	2.4	19.0
2 21	9 4.67	+15 59.2	1.082	2.046	8.4	19.4
3 2	8 56.42	+15 58.8	1.134	2.055	13.8	19.7
3 12	8 51.57	+15 48.6	1.207	2.065	18.3	20.0
30085 Kevingarbe			2 7.1 233°.49		2°.2/ 5.8 18	
1 2	9 49.06	+18 18.1	1.678	2.491	15.5	19.5
1 12	9 44.20	+18 59.2	1.589	2.482	11.9	19.2
1 22	9 36.46	+19 49.9	1.523	2.473	7.6	18.9
2 1	9 26.49	+20 44.1	1.483	2.463	3.3	18.6
2 11	9 15.44	+21 33.9	1.472	2.452	3.5	18.6
2 21	9 4.71	+22 12.9	1.489	2.441	8.0	18.9
3 2	8 55.66	+22 36.8	1.532	2.430	12.5	19.1
3 12	8 49.30	+22 44.6	1.597	2.418	16.4	19.3
291031 2005 YN_{33}			2 7.1 280°.41		3°.4/ 8.8 18	
1 2	9 47.70	+ 7 38.2	1.544	2.336	17.6	20.8
1 12	9 43.42	+ 7 13.8	1.442	2.316	14.2	20.5
1 22	9 36.15	+ 7 4.9	1.361	2.296	10.0	20.2
2 1	9 26.44	+ 7 11.6	1.305	2.276	5.5	19.9
2 11	9 15.43	+ 7 31.2	1.275	2.256	3.7	19.7
2 21	9 4.52	+ 7 59.2	1.272	2.235	7.6	19.9
3 2	8 55.20	+ 8 30.2	1.295	2.215	12.5	20.1
3 12	8 48.64	+ 8 58.6	1.340	2.194	17.0	20.3
209940 2006 DZ_{34}			2 7.1 197°.50		1°.4/ 6.2 18	
1 2	9 49.14	+17 8.7	1.860	2.665	14.6	21.5
1 12	9 43.87	+17 39.6	1.775	2.663	11.2	21.3
1 22	9 36.02	+18 19.2	1.712	2.660	7.1	21.0
2 1	9 26.25	+19 2.4	1.677	2.657	2.8	20.7
2 11	9 15.63	+19 42.9	1.671	2.653	2.6	20.7
2 21	9 5.36	+20 15.4	1.694	2.648	7.0	21.0
3 2	8 56.64	+20 36.4	1.744	2.644	11.1	21.2
3 12	8 50.33	+20 44.6	1.818	2.638	14.7	21.4

31869 2000 EF_{101} 2 7.1 231°.86 3°.9/ 4.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.26	+23 31.6	1.966	2.775	13.8	18.9
1 12	9 45.65	+24 28.5	1.871	2.760	10.6	18.6
1 22	9 37.30	+25 30.5	1.799	2.744	7.1	18.4
2 1	9 26.81	+26 30.2	1.756	2.728	4.2	18.2
2 11	9 15.26	+27 19.8	1.742	2.710	5.0	18.2
2 21	9 3.91	+27 53.3	1.757	2.692	8.5	18.4
3 2	8 54.07	+28 7.9	1.799	2.673	12.2	18.5
3 12	8 46.74	+28 4.1	1.863	2.653	15.6	18.7

229987 1999 XU_{194} 2 7.1 52°.28 0°.9/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.74	+16 54.3	1.660	2.470	15.8	20.1
1 12	9 44.04	+17 7.2	1.613	2.503	11.9	20.0
1 22	9 35.86	+17 27.5	1.588	2.536	7.5	19.8
2 1	9 26.06	+17 50.5	1.589	2.569	2.8	19.5
2 11	9 15.88	+18 10.8	1.619	2.602	2.3	19.6
2 21	9 6.53	+18 24.3	1.677	2.636	6.6	19.9
3 2	8 59.05	+18 29.0	1.762	2.669	10.6	20.2
3 12	8 54.08	+18 24.1	1.871	2.702	13.9	20.5

457530 2008 WP_{66} 2 7.1 102°.60 2°.2/ 5.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.95	+18 3.9	1.647	2.457	15.9	22.0
1 12	9 45.25	+18 57.4	1.588	2.480	12.0	21.8
1 22	9 36.83	+19 59.4	1.553	2.502	7.6	21.6
2 1	9 26.51	+21 2.6	1.544	2.523	3.2	21.4
2 11	9 15.55	+21 58.9	1.564	2.544	3.5	21.4
2 21	9 5.30	+22 42.4	1.613	2.564	7.7	21.7
3 2	8 56.94	+23 10.0	1.689	2.583	11.7	22.0
3 12	8 51.26	+23 21.3	1.786	2.602	15.1	22.3

200397 2000 RR_{76} 2 7.1 57°.14 1°.2/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.86	+14 46.6	1.289	2.114	18.6	19.4
1 12	9 43.41	+15 33.6	1.239	2.138	14.1	19.2
1 22	9 35.87	+16 34.8	1.210	2.161	8.9	19.0
2 1	9 26.17	+17 42.4	1.205	2.185	3.3	18.7
2 11	9 15.80	+18 46.8	1.226	2.209	2.9	18.8
2 21	9 6.31	+19 40.2	1.274	2.234	8.1	19.1
3 2	8 59.01	+20 17.8	1.347	2.258	12.8	19.5
3 12	8 54.73	+20 38.1	1.440	2.282	16.7	19.8

109487 2001 QE_{224} 2 7.1 78°.66 3°.5/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 41.94	+ 1 32.1	2.295	3.046	13.8	19.7
1 12	9 37.72	+ 1 46.0	2.221	3.065	11.1	19.6
1 22	9 31.72	+ 2 16.8	2.170	3.085	8.0	19.4
2 1	9 24.50	+ 3 3.0	2.145	3.104	5.0	19.2
2 11	9 16.83	+ 4 1.2	2.149	3.123	3.5	19.2
2 21	9 9.50	+ 5 6.4	2.183	3.142	5.3	19.3
3 2	9 3.29	+ 6 13.3	2.245	3.161	8.2	19.5
3 12	8 58.76	+ 7 16.9	2.334	3.179	11.0	19.7

82137 2001 FB_{123} 2 7.1 47°.83 1°.2/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.00	+15 29.9	1.133	1.968	20.0	19.3
1 12	9 44.04	+16 0.9	1.077	1.981	15.3	19.1
1 22	9 36.56	+16 46.8	1.040	1.994	9.7	18.8
2 1	9 26.53	+17 40.0	1.026	2.007	3.7	18.5
2 11	9 15.57	+18 31.0	1.037	2.021	3.1	18.5
2 21	9 5.49	+19 11.5	1.073	2.035	8.9	18.9
3 2	8 57.86	+19 36.7	1.133	2.050	14.1	19.2
3 12	8 53.63	+19 45.0	1.212	2.065	18.5	19.5

308072 2004 TJ_{211} 2 7.1 193°.05 5°.3/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.45	+33 15.8	2.778	3.575	10.5	21.4
1 12	9 44.23	+34 13.0	2.700	3.573	8.3	21.2
1 22	9 35.95	+35 6.4	2.647	3.570	6.4	21.1
2 1	9 26.17	+35 49.8	2.623	3.566	5.3	21.0
2 11	9 15.77	+36 18.3	2.629	3.561	6.1	21.0
2 21	9 5.70	+36 28.9	2.664	3.556	8.0	21.1
3 2	8 56.88	+36 21.2	2.726	3.550	10.2	21.3
3 12	8 50.00	+35 57.1	2.812	3.543	12.2	21.4

371263 2006 CC_{20} 2 7.1 32°.86 0°.9/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.03	+10 32.4	1.847	2.645	14.9	21.4
1 12	9 39.12	+10 57.0	1.766	2.648	11.5	21.2
1 22	9 32.92	+11 35.8	1.709	2.652	7.6	20.9
2 1	9 25.05	+12 25.2	1.677	2.655	3.3	20.7
2 11	9 16.47	+13 20.0	1.674	2.659	1.7	20.6
2 21	9 8.25	+14 14.0	1.700	2.663	6.0	20.9
3 2	9 1.41	+15 2.2	1.752	2.667	10.1	21.1
3 12	8 56.74	+15 40.7	1.828	2.671	13.7	21.3

490547 2009 VG_{73} 2 7.1 34°.03 0°.1/ 7.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.26	+13 29.4	1.082	1.918	20.7	21.2
1 12	9 42.88	+13 51.4	1.023	1.927	15.9	20.9
1 22	9 35.93	+14 31.3	0.983	1.936	10.2	20.7
2 1	9 26.32	+15 22.8	0.965	1.946	3.9	20.3
2 11	9 15.69	+16 16.6	0.971	1.956	2.6	20.3
2 21	9 5.88	+17 3.7	1.002	1.967	8.8	20.7
3 2	8 58.52	+17 37.6	1.056	1.979	14.3	21.0
3 12	8 54.61	+17 55.6	1.129	1.991	18.9	21.3

39194 2000 WK_{188} 2 7.1 301°.15 7°.0/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 41.58	− 7 53.3	2.538	3.230	14.0	19.0
1 12	9 37.46	− 8 35.8	2.443	3.228	12.1	18.8
1 22	9 31.61	− 9 0.3	2.369	3.227	10.0	18.7
2 1	9 24.51	− 9 4.8	2.319	3.225	8.1	18.5
2 11	9 16.82	− 8 49.2	2.295	3.224	7.0	18.5
2 21	9 9.31	− 8 15.6	2.299	3.222	7.5	18.5
3 2	9 2.73	− 7 28.1	2.330	3.221	9.1	18.6
3 12	8 57.71	− 6 31.9	2.386	3.219	11.2	18.7

368558 2004 BC_{22} 2 7.1 140°.73 3°.6/ 7.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 3.21	+12 28.2	1.207	2.005	21.3	20.4
1 12	9 55.67	+11 5.6	1.132	2.011	16.8	20.1
1 22	9 44.10	+ 9 50.7	1.077	2.016	11.5	19.8
2 1	9 29.50	+ 8 44.4	1.047	2.021	5.8	19.5
2 11	9 13.68	+ 7 47.1	1.044	2.025	4.1	19.4
2 21	8 58.78	+ 6 58.8	1.069	2.029	9.1	19.7
3 2	8 46.65	+ 6 18.6	1.119	2.033	14.6	20.0
3 12	8 38.47	+ 5 44.2	1.191	2.036	19.3	20.3

218670 2005 SC_{221} 2 7.1 102°.69 5°.0/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.85	+28 58.3	2.034	2.842	13.4	20.3
1 12	9 46.34	+29 38.5	1.975	2.860	10.3	20.1
1 22	9 37.35	+30 15.9	1.940	2.878	7.2	20.0
2 1	9 26.68	+30 43.6	1.932	2.895	5.1	19.9
2 11	9 15.51	+30 56.0	1.954	2.912	5.7	19.9
2 21	9 5.05	+30 50.5	2.005	2.928	8.4	20.1
3 2	8 56.35	+30 27.6	2.082	2.944	11.3	20.3
3 12	8 50.14	+29 49.9	2.182	2.960	14.0	20.5

163448 2002 RQ_{113} 2 7.1 72°.63 0°.2/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.52	+13 29.4	2.109	2.906	13.4	20.1
1 12	9 39.92	+13 42.1	2.031	2.913	10.2	19.9
1 22	9 33.26	+14 4.2	1.976	2.920	6.6	19.7
2 1	9 25.14	+14 32.3	1.948	2.927	2.6	19.5
2 11	9 16.44	+15 2.3	1.950	2.935	1.5	19.4
2 21	9 8.12	+15 30.0	1.981	2.942	5.5	19.7
3 2	9 1.08	+15 52.2	2.040	2.949	9.2	19.9
3 12	8 56.00	+16 6.7	2.123	2.956	12.4	20.1

456659 2007 RL_{37} 2 7.1 122°.69 0°.8/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.58	+15 27.5	1.864	2.663	14.8	22.1
1 12	9 43.97	+16 0.5	1.794	2.680	11.2	21.9
1 22	9 35.94	+16 43.0	1.749	2.695	7.1	21.7
2 1	9 26.19	+17 29.8	1.730	2.710	2.7	21.4
2 11	9 15.81	+18 15.0	1.741	2.724	2.2	21.4
2 21	9 5.97	+18 53.1	1.782	2.738	6.5	21.7
3 2	8 57.73	+19 20.8	1.850	2.751	10.5	22.0
3 12	8 51.84	+19 36.6	1.941	2.764	13.8	22.2

361624 2007 TN_{114} 2 7.1 77°.26 5°.2/ 4.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.63	+26 42.1	1.539	2.360	16.3	21.0
1 12	9 47.55	+27 28.2	1.486	2.381	12.5	20.8
1 22	9 38.39	+28 13.6	1.456	2.401	8.5	20.6
2 1	9 27.13	+28 49.6	1.452	2.421	5.5	20.5
2 11	9 15.27	+29 8.5	1.475	2.441	6.2	20.6
2 21	9 4.35	+29 6.9	1.526	2.460	9.6	20.8
3 2	8 55.68	+28 45.3	1.601	2.480	13.2	21.1
3 12	8 50.05	+28 7.0	1.698	2.499	16.4	21.3

146418 2001 QG_{219} 2 7.1 115°.28 0°.4/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.87	+12 36.7	1.947	2.742	14.4	20.9
1 12	9 41.84	+12 56.3	1.873	2.754	11.1	20.7
1 22	9 34.55	+13 27.0	1.822	2.765	7.1	20.4
2 1	9 25.66	+14 5.1	1.797	2.776	2.9	20.2
2 11	9 16.14	+14 45.5	1.803	2.787	1.6	20.1
2 21	9 7.08	+15 23.3	1.837	2.798	5.9	20.4
3 2	8 59.45	+15 54.6	1.899	2.808	9.8	20.7
3 12	8 53.99	+16 16.9	1.985	2.818	13.2	20.9

266438 2007 HZ_{23} 2 7.1 187°.77 2°.8/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.26	+ 5 35.2	2.058	2.831	14.4	20.8
1 12	9 39.09	+ 5 40.8	1.969	2.831	11.5	20.6
1 22	9 32.82	+ 6 1.9	1.902	2.831	8.0	20.4
2 1	9 25.02	+ 6 37.3	1.862	2.831	4.5	20.2
2 11	9 16.53	+ 7 23.2	1.850	2.830	2.9	20.1
2 21	9 8.32	+ 8 15.0	1.868	2.830	5.7	20.3
3 2	9 1.31	+ 9 7.2	1.913	2.830	9.3	20.5
3 12	8 56.25	+ 9 55.3	1.983	2.829	12.6	20.7

78147 2002 NH_{22} 2 7.1 98°.02 1°.4/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.75	+10 24.5	2.262	3.043	13.1	19.5
1 12	9 40.64	+10 22.8	2.186	3.057	10.1	19.3
1 22	9 33.62	+10 31.1	2.133	3.070	6.7	19.1
2 1	9 25.26	+10 47.4	2.109	3.084	3.1	18.9
2 11	9 16.42	+11 8.5	2.114	3.098	1.8	18.8
2 21	9 7.97	+11 30.9	2.149	3.111	5.1	19.1
3 2	9 0.74	+11 51.5	2.213	3.124	8.5	19.3
3 12	8 55.35	+12 7.7	2.302	3.137	11.5	19.5

362179 2009 FM_{33} 2 7.1 310°.52 1°.3/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 44.00	+ 9 18.6	1.542	2.347	17.1	21.1
1 12	9 40.40	+ 9 44.9	1.458	2.343	13.4	20.8
1 22	9 34.05	+10 29.9	1.395	2.338	8.9	20.6
2 1	9 25.59	+11 30.1	1.357	2.334	4.0	20.3
2 11	9 16.15	+12 38.9	1.345	2.330	2.1	20.1
2 21	9 7.04	+13 48.4	1.361	2.326	7.0	20.4
3 2	8 59.55	+14 51.4	1.403	2.322	11.8	20.7
3 12	8 54.66	+15 42.4	1.468	2.319	16.0	20.9

31526 1999 CW_{124} 2 7.1 230°.86 7°.9/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.89	+33 48.0	1.887	2.706	13.8	17.8
1 12	9 44.09	+35 24.9	1.818	2.702	11.2	17.6
1 22	9 36.39	+36 58.5	1.774	2.699	8.8	17.5
2 1	9 26.49	+38 18.3	1.756	2.695	7.9	17.4
2 11	9 15.60	+39 15.2	1.766	2.691	9.0	17.5
2 21	9 5.16	+39 44.1	1.801	2.687	11.4	17.6
3 2	8 56.51	+39 44.6	1.860	2.683	14.2	17.8
3 12	8 50.63	+39 20.2	1.938	2.679	16.7	18.0

129603 1997 WF_{12} 2 7.1 358°.37 2°.7/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.06	+18 9.7	1.170	2.015	18.8	19.3
1 12	9 40.46	+18 52.4	1.102	2.012	14.4	19.0
1 22	9 34.45	+19 48.0	1.053	2.009	9.2	18.7
2 1	9 25.81	+20 48.3	1.028	2.008	3.9	18.4
2 11	9 16.04	+21 43.2	1.027	2.008	4.2	18.5
2 21	9 6.87	+22 23.9	1.051	2.009	9.6	18.8
3 2	8 59.92	+22 45.3	1.096	2.011	14.8	19.0
3 12	8 56.28	+22 46.5	1.162	2.014	19.2	19.3

323473 2004 LS_{3} 2 7.1 198°.56 0°.8/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.97	+ 9 13.8	2.374	3.151	12.6	21.3
1 12	9 39.42	+ 9 59.8	2.278	3.148	9.8	21.1
1 22	9 32.96	+10 59.5	2.206	3.144	6.5	20.9
2 1	9 25.07	+12 9.5	2.163	3.140	2.8	20.7
2 11	9 16.51	+13 24.7	2.150	3.135	1.5	20.5
2 21	9 8.13	+14 39.5	2.169	3.129	5.2	20.8
3 2	9 0.79	+15 48.6	2.217	3.123	8.7	21.0
3 12	8 55.17	+16 48.2	2.290	3.117	11.9	21.2

166402 2002 NV_{29} 2 7.1 172°.18 0°.1/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.34	+13 59.7	2.452	3.242	11.9	20.9
1 12	9 39.58	+14 22.8	2.365	3.244	9.1	20.7
1 22	9 32.98	+14 54.2	2.302	3.246	5.8	20.5
2 1	9 25.05	+15 30.6	2.268	3.247	2.3	20.3
2 11	9 16.57	+16 8.0	2.264	3.249	1.5	20.2
2 21	9 8.35	+16 42.5	2.291	3.249	5.1	20.5
3 2	9 1.22	+17 10.9	2.346	3.250	8.5	20.7
3 12	8 55.79	+17 31.2	2.427	3.250	11.4	20.9

135891 2002 TU_{63} 2 7.1 41°.08 4°.1/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 41.35	+ 0 52.1	1.422	2.207	19.3	19.0
1 12	9 38.32	+ 1 30.0	1.356	2.221	15.5	18.7
1 22	9 32.62	+ 2 36.8	1.309	2.236	11.1	18.5
2 1	9 25.00	+ 4 9.5	1.286	2.252	6.6	18.3
2 11	9 16.62	+ 6 0.3	1.289	2.268	4.1	18.2
2 21	9 8.76	+ 7 58.5	1.319	2.285	7.0	18.4
3 2	9 2.62	+ 9 52.9	1.375	2.302	11.3	18.7
3 12	8 59.04	+11 34.4	1.455	2.319	15.3	19.0

217962 2001 UK_{193} 2 7.1 178°.43 0°.8/ 7.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.41	+12 12.5	2.422	3.200	12.4	20.8
1 12	9 42.65	+12 14.8	2.331	3.202	9.6	20.6
1 22	9 34.94	+12 25.5	2.265	3.203	6.3	20.4
2 1	9 25.82	+12 42.3	2.227	3.204	2.7	20.2
2 11	9 16.10	+13 2.0	2.220	3.204	1.5	20.1
2 21	9 6.67	+13 21.3	2.244	3.204	5.1	20.3
3 2	8 58.39	+13 37.4	2.297	3.202	8.5	20.5
3 12	8 51.94	+13 48.2	2.376	3.200	11.6	20.7

123656 2000 YO_{74} 2 7.1 23°.44 2°.3/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 41.35	+16 22.7	1.478	2.309	16.4	18.8
1 12	9 38.38	+17 34.7	1.415	2.317	12.4	18.6
1 22	9 32.70	+19 0.1	1.373	2.327	7.8	18.4
2 1	9 25.04	+20 30.5	1.357	2.337	3.3	18.1
2 11	9 16.59	+21 56.2	1.369	2.349	3.7	18.2
2 21	9 8.67	+23 8.4	1.407	2.361	8.2	18.5
3 2	9 2.49	+24 1.8	1.470	2.374	12.5	18.8
3 12	8 58.91	+24 34.4	1.554	2.387	16.1	19.0

324585 2006 XA_{12} 2 7.1 144°.20 0°.3/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.27	+14 25.8	2.085	2.880	13.6	21.6
1 12	9 42.06	+14 50.5	2.007	2.888	10.4	21.4
1 22	9 34.68	+15 24.5	1.952	2.896	6.6	21.2
2 1	9 25.74	+16 3.8	1.924	2.904	2.5	20.9
2 11	9 16.17	+16 43.3	1.927	2.911	1.8	20.9
2 21	9 6.99	+17 18.5	1.959	2.918	5.8	21.1
3 2	8 59.16	+17 46.0	2.020	2.924	9.6	21.4
3 12	8 53.41	+18 3.7	2.105	2.929	12.8	21.6

461699 2005 QA_{161} 2 7.1 91°.65 9°.5/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	10 0.95	+41 36.5	1.867	2.661	15.0	20.8
1 12	9 53.11	+42 28.9	1.814	2.672	12.5	20.7
1 22	9 41.93	+43 7.6	1.783	2.682	10.5	20.6
2 1	9 28.52	+43 22.6	1.777	2.693	9.5	20.5
2 11	9 14.53	+43 7.5	1.798	2.703	10.2	20.6
2 21	9 1.69	+42 21.5	1.844	2.713	12.1	20.7
3 2	8 51.40	+41 8.8	1.915	2.723	14.4	20.9
3 12	8 44.45	+39 36.6	2.007	2.733	16.6	21.1

35512 1998 FH_{53} 2 7.1 344°.27 2°.6/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.29	+ 7 10.5	1.671	2.466	16.4	19.2
1 12	9 38.86	+ 7 15.6	1.585	2.462	13.0	18.9
1 22	9 32.95	+ 7 38.4	1.521	2.457	8.9	18.7
2 1	9 25.16	+ 8 16.9	1.481	2.454	4.7	18.4
2 11	9 16.52	+ 9 6.8	1.468	2.450	2.8	18.3
2 21	9 8.19	+10 1.9	1.483	2.448	6.5	18.5
3 2	9 1.31	+10 55.9	1.524	2.445	10.8	18.7
3 12	8 56.78	+11 43.2	1.587	2.444	14.7	19.0

87104 2000 LH_{18} 2 7.1 142°.88 0°.9/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.45	+ 8 48.4	2.313	3.090	13.0	19.8
1 12	9 39.72	+ 9 32.5	2.231	3.101	10.0	19.6
1 22	9 33.10	+10 30.1	2.174	3.111	6.6	19.5
2 1	9 25.12	+11 37.6	2.144	3.120	2.9	19.2
2 11	9 16.58	+12 49.9	2.145	3.129	1.5	19.1
2 21	9 8.32	+14 1.4	2.177	3.138	5.1	19.4
3 2	9 1.19	+15 7.1	2.238	3.146	8.6	19.6
3 12	8 55.84	+16 3.3	2.325	3.153	11.6	19.8

327040 2004 SV_{4} 2 7.1 159°.00 2°.7/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.25	+ 4 22.0	2.603	3.354	12.3	22.0
1 12	9 39.36	+ 4 30.4	2.514	3.362	9.8	21.9
1 22	9 32.78	+ 4 51.9	2.448	3.369	7.0	21.7
2 1	9 24.99	+ 5 25.3	2.410	3.375	4.1	21.5
2 11	9 16.69	+ 6 7.8	2.403	3.380	2.7	21.4
2 21	9 8.64	+ 6 55.5	2.426	3.385	4.8	21.6
3 2	9 1.56	+ 7 44.4	2.479	3.390	7.7	21.8
3 12	8 56.06	+ 8 30.6	2.558	3.393	10.5	22.0

426136 2012 HD_{23} 2 7.1 248°.71 3°.3/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.79	+ 2 36.9	2.161	2.920	14.3	21.4
1 12	9 38.79	+ 2 59.8	2.056	2.907	11.6	21.2
1 22	9 32.72	+ 3 41.5	1.972	2.893	8.3	21.0
2 1	9 25.06	+ 4 41.1	1.915	2.879	5.0	20.7
2 11	9 16.60	+ 5 54.7	1.887	2.864	3.3	20.6
2 21	9 8.24	+ 7 16.6	1.888	2.850	5.7	20.7
3 2	9 0.95	+ 8 40.3	1.918	2.834	9.3	20.9
3 12	8 55.50	+ 9 59.5	1.974	2.819	12.7	21.1

472554 2015 DX_{44} 2 7.1 195°.06 0°.8/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.45	+15 51.2	2.675	3.470	10.9	21.8
1 12	9 38.07	+16 30.6	2.585	3.468	8.3	21.6
1 22	9 32.00	+17 17.3	2.520	3.466	5.2	21.4
2 1	9 24.70	+18 7.7	2.484	3.464	2.0	21.2
2 11	9 16.86	+18 57.3	2.479	3.462	1.8	21.2
2 21	9 9.24	+19 42.0	2.505	3.459	5.1	21.4
3 2	9 2.55	+20 18.9	2.559	3.456	8.1	21.6
3 12	8 57.42	+20 45.9	2.639	3.453	10.8	21.8

39039 2000 UN_{82} 2 7.1 33°.03 0°.3/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.98	+12 20.3	1.811	2.614	15.0	19.5
1 12	9 39.93	+12 46.9	1.731	2.617	11.5	19.3
1 22	9 33.51	+13 26.4	1.673	2.619	7.5	19.0
2 1	9 25.35	+14 15.0	1.642	2.621	3.0	18.8
2 11	9 16.45	+15 6.8	1.639	2.624	1.7	18.7
2 21	9 7.92	+15 55.9	1.665	2.627	6.3	19.0
3 2	9 0.83	+16 37.4	1.717	2.630	10.4	19.2
3 12	8 55.97	+17 8.2	1.793	2.633	14.0	19.5

461763 2005 UB_{268} 2 7.1 337°.67 7°.8/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.19	+32 45.7	1.769	2.595	14.3	20.6
1 12	9 42.92	+34 19.5	1.703	2.592	11.5	20.4
1 22	9 35.70	+35 50.4	1.660	2.590	8.9	20.3
2 1	9 26.27	+37 8.1	1.643	2.587	7.8	20.2
2 11	9 15.87	+38 3.1	1.652	2.585	9.0	20.3
2 21	9 5.96	+38 30.1	1.688	2.583	11.5	20.4
3 2	8 57.90	+38 28.7	1.746	2.581	14.4	20.6
3 12	8 52.64	+38 2.2	1.824	2.579	17.1	20.8

416981 2005 TG_{83} 2 7.1 76°.77 6°.8/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.77	+32 30.6	1.807	2.622	14.5	20.6
1 12	9 46.71	+33 26.7	1.753	2.638	11.4	20.4
1 22	9 37.81	+34 17.1	1.722	2.654	8.5	20.3
2 1	9 26.96	+34 53.3	1.718	2.670	6.9	20.2
2 11	9 15.52	+35 8.4	1.742	2.685	7.7	20.3
2 21	9 4.90	+34 59.7	1.792	2.701	10.1	20.5
3 2	8 56.33	+34 28.7	1.867	2.717	13.0	20.7
3 12	8 50.56	+33 39.4	1.964	2.732	15.6	20.9

7325 1981 QA_1 2 7.1 66°.06 3°.5/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 44.58	+ 3 58.1	1.484	2.272	18.4	17.1
1 12	9 40.71	+ 4 15.5	1.415	2.284	14.7	16.9
1 22	9 34.14	+ 4 56.2	1.366	2.297	10.3	16.6
2 1	9 25.62	+ 5 57.8	1.341	2.310	5.8	16.4
2 11	9 16.31	+ 7 14.2	1.343	2.324	3.6	16.3
2 21	9 7.53	+ 8 36.9	1.372	2.337	6.9	16.5
3 2	9 0.49	+ 9 57.3	1.427	2.350	11.3	16.8
3 12	8 56.03	+11 8.5	1.505	2.364	15.2	17.1

229390 2005 SH_{88} 2 7.1 195°.43 2°.7/ 5.2 18

1 2	9 50.84	+19 38.5	1.843	2.650	14.6	21.1
1 12	9 45.32	+20 34.3	1.758	2.648	11.1	20.8
1 22	9 37.09	+21 38.4	1.697	2.645	7.2	20.6
2 1	9 26.80	+22 43.7	1.663	2.641	3.4	20.3
2 11	9 15.55	+23 42.4	1.659	2.636	3.9	20.4
2 21	9 4.64	+24 28.0	1.684	2.630	7.9	20.6
3 2	8 55.32	+24 56.9	1.736	2.623	11.9	20.8
3 12	8 48.55	+25 8.7	1.811	2.616	15.4	21.0

62075 2000 RO_{79} 2 7.2 175°.44 4°.6/11.4 18

1 2	9 44.51	− 2 8.7	2.673	3.390	12.8	19.5
1 12	9 39.56	− 2 17.4	2.577	3.393	10.7	19.4
1 22	9 32.93	− 2 10.3	2.504	3.395	8.2	19.2
2 1	9 25.08	− 1 47.0	2.457	3.397	5.8	19.1
2 11	9 16.68	− 1 9.3	2.439	3.398	4.6	19.0
2 21	9 8.49	− 0 20.4	2.452	3.398	5.7	19.1
3 2	9 1.22	+ 0 35.5	2.494	3.398	8.0	19.2
3 12	8 55.48	+ 1 33.4	2.562	3.397	10.5	19.4

286049 2001 SK_{227} 2 7.2 209°.08 1°.5/ 8.6 17

1 2	9 42.10	+ 7 56.8	2.853	3.620	11.0	21.8
1 12	9 37.70	+ 8 14.9	2.753	3.614	8.6	21.6
1 22	9 31.73	+ 8 43.6	2.677	3.608	5.9	21.4
2 1	9 24.62	+ 9 21.2	2.629	3.601	2.9	21.2
2 11	9 16.99	+10 4.7	2.612	3.594	1.7	21.1
2 21	9 9.52	+10 50.5	2.626	3.587	4.3	21.3
3 2	9 2.88	+11 35.1	2.670	3.579	7.3	21.4
3 12	8 57.63	+12 15.3	2.740	3.571	10.0	21.6

373306 2012 JT 2 7.2 288°.55 8°.3/ 1.3 18

1 2	9 51.90	+35 11.9	1.825	2.640	14.4	20.2
1 12	9 46.72	+36 22.1	1.737	2.618	11.8	20.0
1 22	9 38.32	+37 27.7	1.673	2.596	9.4	19.8
2 1	9 27.38	+38 18.6	1.635	2.574	8.3	19.7
2 11	9 15.22	+38 45.2	1.623	2.552	9.3	19.7
2 21	9 3.43	+38 42.7	1.636	2.530	11.9	19.8
3 2	8 53.56	+38 11.1	1.674	2.508	15.0	19.9
3 12	8 46.73	+37 14.6	1.731	2.486	17.9	20.1

70661 1999 TS_{274} 2 7.2 188°.50 0°.8/ 7.8 18

1 2	9 47.46	+10 53.7	2.074	2.858	14.0	20.9
1 12	9 42.34	+11 16.6	1.984	2.858	10.9	20.6
1 22	9 34.98	+11 52.0	1.917	2.857	7.1	20.4
2 1	9 25.95	+12 36.7	1.877	2.855	3.0	20.2
2 11	9 16.17	+13 25.9	1.868	2.852	1.6	20.0
2 21	9 6.66	+14 14.3	1.888	2.849	5.8	20.3
3 2	8 58.44	+14 57.4	1.937	2.845	9.7	20.5
3 12	8 52.29	+15 31.8	2.010	2.840	13.1	20.7

424992 2009 CB_{21} 2 7.2 2°.73 0°.8/ 7.9 18

1 2	9 41.01	+ 9 58.2	2.188	2.979	13.1	21.0
1 12	9 37.32	+10 34.9	2.101	2.979	10.2	20.8
1 22	9 31.70	+11 25.0	2.038	2.979	6.7	20.6
2 1	9 24.66	+12 25.2	2.001	2.979	2.9	20.4
2 11	9 17.00	+13 30.3	1.995	2.979	1.5	20.3
2 21	9 9.59	+14 34.8	2.017	2.980	5.3	20.5
3 2	9 3.28	+15 33.7	2.068	2.980	9.0	20.8
3 12	8 58.77	+16 23.2	2.144	2.981	12.2	21.0

463548 2013 RU_{48} 2 7.2 287°.54 0°.3/ 6.9 18

1 2	9 45.26	+14 40.9	1.928	2.732	14.2	21.4
1 12	9 40.85	+14 58.9	1.841	2.727	10.9	21.2
1 22	9 34.11	+15 26.7	1.777	2.723	7.0	20.9
2 1	9 25.64	+16 0.4	1.739	2.719	2.7	20.7
2 11	9 16.40	+16 35.2	1.731	2.715	1.8	20.6
2 21	9 7.47	+17 6.1	1.751	2.711	6.2	20.9
3 2	8 59.92	+17 29.4	1.799	2.707	10.3	21.1
3 12	8 54.55	+17 42.9	1.870	2.703	13.8	21.3

459178 2012 DV_{33} 2 7.2 1°.34 0°.0/ 6.9 18

1 2	9 45.09	+12 53.3	1.702	2.509	15.6	21.7
1 12	9 40.98	+13 22.1	1.621	2.509	12.0	21.5
1 22	9 34.31	+14 4.4	1.562	2.509	7.8	21.2
2 1	9 25.74	+14 55.7	1.529	2.509	3.0	20.9
2 11	9 16.33	+15 49.9	1.524	2.509	1.9	20.8
2 21	9 7.30	+16 40.4	1.547	2.509	6.7	21.1
3 2	8 59.80	+17 22.1	1.597	2.509	11.1	21.4
3 12	8 54.72	+17 51.7	1.669	2.509	14.9	21.6

393715 2004 TQ_{287} 2 7.2 139°.69 3°.3/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.68	+22 21.8	2.032	2.836	13.5	21.7
1 12	9 45.54	+23 19.7	1.964	2.852	10.3	21.5
1 22	9 36.98	+24 21.5	1.921	2.866	6.7	21.3
2 1	9 26.70	+25 20.2	1.907	2.880	3.7	21.1
2 11	9 15.78	+26 8.9	1.922	2.893	4.3	21.2
2 21	9 5.37	+26 43.0	1.967	2.905	7.5	21.4
3 2	8 56.55	+27 0.4	2.040	2.916	10.9	21.7
3 12	8 50.08	+27 1.7	2.136	2.926	13.8	21.9

203687 2002 ND_{39} 2 7.2 98°.29 7°.6/12.3 18

1 2	9 47.74	− 6 24.1	2.309	3.005	15.2	19.6
1 12	9 42.25	− 7 37.7	2.226	3.014	13.0	19.5
1 22	9 34.77	− 8 33.9	2.163	3.024	10.7	19.4
2 1	9 25.85	− 9 9.8	2.126	3.033	8.7	19.2
2 11	9 16.30	− 9 24.3	2.116	3.043	7.6	19.2
2 21	9 7.03	− 9 18.9	2.134	3.052	8.2	19.2
3 2	8 58.92	− 8 57.2	2.179	3.061	10.0	19.4
3 12	8 52.66	− 8 24.6	2.248	3.070	12.2	19.5

241651 2000 GT_{152} 2 7.2 325°.47 0°.0/ 6.9 18

1 2	9 46.29	+14 59.5	1.219	2.050	19.1	20.3
1 12	9 43.00	+14 58.5	1.136	2.038	14.9	20.0
1 22	9 36.22	+15 10.5	1.073	2.025	9.7	19.6
2 1	9 26.66	+15 31.5	1.033	2.014	3.8	19.2
2 11	9 15.74	+15 54.9	1.018	2.003	2.4	19.1
2 21	9 5.23	+16 14.1	1.028	1.993	8.6	19.4
3 2	8 56.84	+16 24.2	1.061	1.984	14.3	19.7
3 12	8 51.81	+16 22.4	1.113	1.975	19.2	20.0

451049 2008 YO_{90} 2 7.2 30°.63 0°.1/ 7.1 18

1 2	9 44.82	+13 9.7	1.228	2.058	19.1	21.1
1 12	9 41.48	+13 38.4	1.166	2.066	14.7	20.8
1 22	9 34.93	+14 24.0	1.124	2.075	9.4	20.6
2 1	9 26.03	+15 20.5	1.105	2.085	3.6	20.3
2 11	9 16.22	+16 19.4	1.111	2.096	2.3	20.2
2 21	9 7.08	+17 12.1	1.143	2.107	8.1	20.6
3 2	9 0.08	+17 52.3	1.198	2.119	13.2	20.9
3 12	8 56.16	+18 16.8	1.274	2.132	17.5	21.2

106761 2000 XW_8 2 7.2 237°.41 7°.4/ 8.9 18

1 2	9 59.05	+ 5 55.5	1.207	1.993	22.0	18.3
1 12	9 52.78	+ 4 3.9	1.125	1.989	18.0	18.0
1 22	9 42.56	+ 2 24.1	1.061	1.985	13.4	17.7
2 1	9 29.16	+ 1 1.4	1.021	1.981	9.0	17.4
2 11	9 14.21	− 0 0.5	1.007	1.976	7.6	17.3
2 21	8 59.75	− 0 40.4	1.019	1.971	10.8	17.5
3 2	8 47.73	− 1 0.9	1.055	1.967	15.5	17.7
3 12	8 39.50	− 1 8.3	1.111	1.962	20.1	18.0

145580 2006 PM_{10} 2 7.2 112°.91 0°.5/ 6.8 18

1 2	9 47.44	+17 13.0	2.414	3.207	12.0	19.9
1 12	9 41.92	+17 11.6	2.331	3.213	9.1	19.7
1 22	9 34.49	+17 14.9	2.274	3.219	5.8	19.5
2 1	9 25.72	+17 20.0	2.245	3.225	2.2	19.3
2 11	9 16.44	+17 23.7	2.247	3.231	1.7	19.2
2 21	9 7.55	+17 23.6	2.279	3.236	5.2	19.5
3 2	8 59.85	+17 17.9	2.340	3.242	8.6	19.7
3 12	8 53.99	+17 5.9	2.427	3.247	11.5	19.9

19622 1999 RY_2 2 7.2 255°.90 2°.9/10.1 18

1 2	9 40.46	+ 2 42.0	2.746	3.495	11.8	18.9
1 12	9 36.58	+ 2 56.3	2.637	3.481	9.5	18.7
1 22	9 31.11	+ 3 24.9	2.551	3.467	6.9	18.5
2 1	9 24.44	+ 4 6.8	2.493	3.453	4.3	18.4
2 11	9 17.20	+ 4 59.5	2.464	3.439	3.0	18.2
2 21	9 10.06	+ 5 59.2	2.465	3.425	4.7	18.3
3 2	9 3.72	+ 7 1.5	2.496	3.410	7.6	18.5
3 12	8 58.78	+ 8 2.0	2.554	3.395	10.3	18.6

400274 2007 RF_{235} 2 7.2 213°.10 1°.2/ 6.4 18

1 2	9 49.88	+16 57.9	1.922	2.723	14.3	22.1
1 12	9 44.48	+17 24.7	1.830	2.716	11.0	21.9
1 22	9 36.52	+18 0.1	1.762	2.709	7.0	21.6
2 1	9 26.63	+18 39.1	1.722	2.701	2.8	21.3
2 11	9 15.83	+19 16.1	1.710	2.693	2.5	21.3
2 21	9 5.33	+19 45.8	1.729	2.684	6.8	21.5
3 2	8 56.30	+20 4.7	1.774	2.674	11.0	21.8
3 12	8 49.63	+20 11.6	1.843	2.663	14.6	22.0

12614 Hokusai 2 7.2 160°.48 2°.1/ 8.6 18 A

1 2	9 49.45	+ 7 20.2	1.842	2.618	15.8	19.4
1 12	9 44.04	+ 7 39.1	1.759	2.626	12.4	19.2
1 22	9 36.16	+ 8 14.5	1.699	2.633	8.5	18.9
2 1	9 26.45	+ 9 3.8	1.666	2.639	4.2	18.7
2 11	9 15.96	+10 1.9	1.661	2.644	2.4	18.6
2 21	9 5.85	+11 2.5	1.687	2.649	6.2	18.8
3 2	8 57.24	+11 59.8	1.740	2.652	10.3	19.1
3 12	8 50.97	+12 49.0	1.817	2.655	14.0	19.3

468586 2007 RR_{49} 2 7.2 13°.34 3°.9/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 41.05	+ 1 50.2	2.118	2.878	14.5	21.4
1 12	9 37.39	+ 1 54.5	2.029	2.878	11.8	21.2
1 22	9 31.77	+ 2 16.8	1.963	2.880	8.6	21.1
2 1	9 24.72	+ 2 56.2	1.922	2.881	5.5	20.9
2 11	9 17.04	+ 3 49.6	1.908	2.882	3.9	20.8
2 21	9 9.61	+ 4 52.3	1.924	2.884	5.8	20.9
3 2	9 3.30	+ 5 58.3	1.968	2.886	9.0	21.1
3 12	8 58.81	+ 7 2.1	2.036	2.888	12.1	21.3

426309 2012 TA_{176} 2 7.2 358°.79 2°.6/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 41.36	+ 6 12.3	2.102	2.881	14.0	21.1
1 12	9 37.65	+ 6 18.7	2.014	2.880	11.1	20.9
1 22	9 31.95	+ 6 40.0	1.948	2.879	7.7	20.7
2 1	9 24.79	+ 7 14.7	1.909	2.879	4.2	20.5
2 11	9 17.00	+ 7 59.1	1.898	2.879	2.7	20.4
2 21	9 9.46	+ 8 48.7	1.916	2.879	5.5	20.6
3 2	9 3.08	+ 9 38.4	1.961	2.879	9.0	20.8
3 12	8 58.54	+10 23.7	2.032	2.880	12.3	21.0

207347 2005 JW_{35} 2 7.2 204°.08 0°.1/ 7.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.12	+12 30.5	2.437	3.227	12.0	21.3
1 12	9 37.99	+13 4.1	2.347	3.226	9.2	21.1
1 22	9 32.06	+13 47.8	2.281	3.224	5.9	20.9
2 1	9 24.81	+14 38.3	2.244	3.223	2.3	20.7
2 11	9 16.99	+15 31.2	2.237	3.221	1.4	20.6
2 21	9 9.39	+16 21.8	2.259	3.219	5.0	20.8
3 2	9 2.80	+17 6.3	2.311	3.217	8.4	21.0
3 12	8 57.87	+17 41.9	2.388	3.215	11.4	21.2

140416 2001 TF_{87} 2 7.2 220°.75 7°.8/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.23	+41 6.7	2.506	3.295	11.7	19.7
1 12	9 46.76	+42 2.2	2.437	3.292	9.8	19.6
1 22	9 37.78	+42 48.1	2.392	3.288	8.3	19.5
2 1	9 27.04	+43 17.1	2.374	3.284	7.8	19.4
2 11	9 15.64	+43 23.8	2.384	3.280	8.5	19.4
2 21	9 4.80	+43 6.2	2.420	3.275	10.1	19.5
3 2	8 55.62	+42 25.5	2.480	3.271	12.1	19.7
3 12	8 48.88	+41 25.8	2.563	3.266	13.9	19.8

125595 2001 XG_{41} 2 7.2 313°.51 9°.7/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.69	+36 56.7	1.680	2.504	15.0	18.9
1 12	9 44.54	+38 34.9	1.608	2.490	12.5	18.7
1 22	9 37.05	+40 7.4	1.559	2.477	10.4	18.5
2 1	9 26.95	+41 22.2	1.535	2.464	9.7	18.4
2 11	9 15.63	+42 8.8	1.536	2.451	10.9	18.5
2 21	9 4.78	+42 21.8	1.561	2.438	13.4	18.6
3 2	8 56.02	+42 1.4	1.608	2.427	16.2	18.7
3 12	8 50.46	+41 12.7	1.672	2.415	18.9	18.9

298958 2004 TN_{367} 2 7.2 71°.59 4°.5/ 4.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.83	+23 29.0	1.432	2.259	17.0	20.6
1 12	9 45.74	+24 21.6	1.374	2.274	12.9	20.4
1 22	9 37.48	+25 18.2	1.339	2.288	8.5	20.2
2 1	9 26.98	+26 9.6	1.328	2.302	4.9	20.0
2 11	9 15.70	+26 46.9	1.345	2.317	5.6	20.1
2 21	9 5.24	+27 4.9	1.388	2.331	9.5	20.4
3 2	8 56.98	+27 2.2	1.456	2.346	13.6	20.6
3 12	8 51.80	+26 41.1	1.544	2.360	17.1	20.9

40785 1999 TA_{29} 2 7.2 27°.39 2°.1/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.43	+ 7 48.3	1.928	2.714	14.8	18.8
1 12	9 39.39	+ 7 56.9	1.844	2.715	11.7	18.6
1 22	9 33.14	+ 8 20.4	1.781	2.717	8.0	18.4
2 1	9 25.28	+ 8 56.9	1.745	2.718	4.0	18.1
2 11	9 16.71	+ 9 41.9	1.737	2.720	2.4	18.0
2 21	9 8.45	+10 30.5	1.758	2.722	5.8	18.3
3 2	9 1.50	+11 17.5	1.806	2.724	9.7	18.5
3 12	8 56.62	+11 58.3	1.879	2.726	13.2	18.7

143679 2003 SK_{236} 2 7.2 20°.34 0°.0/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.53	+13 57.7	2.038	2.838	13.6	20.5
1 12	9 40.14	+14 17.3	1.954	2.839	10.5	20.3
1 22	9 33.59	+14 46.7	1.893	2.839	6.7	20.1
2 1	9 25.45	+15 22.3	1.860	2.839	2.6	19.8
2 11	9 16.64	+15 59.5	1.855	2.839	1.7	19.7
2 21	9 8.15	+16 33.6	1.879	2.840	5.8	20.0
3 2	9 0.95	+17 0.7	1.931	2.840	9.7	20.2
3 12	8 55.78	+17 18.7	2.008	2.841	13.0	20.4

383646 2007 RJ_{316} 2 7.2 185°.42 4°.9/12.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.01	− 3 54.1	2.768	3.477	12.6	22.0
1 12	9 37.68	− 3 58.7	2.669	3.477	10.6	21.8
1 22	9 31.76	− 3 46.7	2.593	3.477	8.3	21.6
2 1	9 24.69	− 3 17.9	2.542	3.476	6.1	21.5
2 11	9 17.11	− 2 33.8	2.521	3.474	4.9	21.4
2 21	9 9.70	− 1 37.6	2.528	3.472	5.7	21.5
3 2	9 3.13	− 0 33.6	2.565	3.470	7.8	21.6
3 12	8 57.99	+ 0 33.0	2.629	3.467	10.1	21.8

20385 1998 KS_{53} 2 7.2 208°.87 0°.3/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 43.65	+13 2.3	2.329	3.120	12.4	18.9
1 12	9 39.30	+13 48.3	2.236	3.116	9.5	18.7
1 22	9 32.98	+14 45.3	2.167	3.111	6.1	18.5
2 1	9 25.22	+15 49.5	2.127	3.106	2.3	18.3
2 11	9 16.77	+16 55.4	2.117	3.101	1.6	18.2
2 21	9 8.53	+17 57.7	2.137	3.095	5.5	18.4
3 2	9 1.35	+18 51.8	2.187	3.089	9.0	18.7
3 12	8 55.95	+19 34.9	2.261	3.083	12.1	18.8

238526 2004 TE_{187} 2 7.2 67°.07 2°.1/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.59	+ 8 36.6	1.445	2.247	18.1	20.9
1 12	9 42.40	+ 8 45.6	1.374	2.256	14.2	20.7
1 22	9 35.35	+ 9 13.2	1.324	2.265	9.6	20.4
2 1	9 26.20	+ 9 56.1	1.299	2.274	4.6	20.1
2 11	9 16.19	+10 48.4	1.300	2.284	2.5	20.0
2 21	9 6.73	+11 43.0	1.328	2.293	7.1	20.3
3 2	8 59.12	+12 33.2	1.381	2.302	11.8	20.6
3 12	8 54.25	+13 13.9	1.457	2.312	15.9	20.9

461271 2015 XF_{61} 2 7.2 108°.63 0°.9/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.80	+13 58.4	1.656	2.461	16.1	21.5
1 12	9 43.72	+14 52.5	1.591	2.479	12.2	21.3
1 22	9 36.01	+15 59.7	1.549	2.497	7.8	21.1
2 1	9 26.40	+17 13.7	1.533	2.514	2.9	20.8
2 11	9 16.09	+18 26.2	1.547	2.530	2.4	20.8
2 21	9 6.35	+19 29.9	1.589	2.546	7.1	21.2
3 2	8 58.35	+20 19.9	1.658	2.561	11.3	21.4
3 12	8 52.91	+20 54.0	1.749	2.576	14.9	21.7

117730 2005 GV_{19} 2 7.2 175°.29 3°.8/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.21	+26 19.1	2.467	3.276	11.3	20.3
1 12	9 41.16	+27 4.4	2.389	3.277	8.7	20.2
1 22	9 34.11	+27 50.2	2.336	3.278	5.9	20.0
2 1	9 25.63	+28 30.9	2.311	3.278	3.9	19.9
2 11	9 16.56	+29 1.5	2.316	3.279	4.6	19.9
2 21	9 7.83	+29 18.7	2.351	3.279	7.1	20.1
3 2	9 0.32	+29 20.9	2.413	3.279	9.8	20.2
3 12	8 54.70	+29 9.0	2.498	3.279	12.3	20.4

239247 2006 TS_{75} 2 7.2 150°.65 1°.8/ 5.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.80	+19 24.1	2.775	3.575	10.4	21.1
1 12	9 38.30	+20 10.4	2.694	3.581	7.8	21.0
1 22	9 32.15	+21 1.4	2.639	3.586	5.0	20.8
2 1	9 24.84	+21 53.0	2.613	3.591	2.3	20.6
2 11	9 17.05	+22 40.7	2.618	3.596	2.6	20.6
2 21	9 9.51	+23 20.8	2.654	3.600	5.3	20.8
3 2	9 2.92	+23 50.8	2.718	3.604	8.1	21.0
3 12	8 57.85	+24 9.7	2.808	3.608	10.6	21.2

31056 1996 RK_{25} 2 7.2 211°.62 4°.4/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.12	− 0 45.5	2.219	2.959	14.5	18.5
1 12	9 38.95	− 0 32.0	2.120	2.954	11.9	18.3
1 22	9 32.81	+ 0 1.3	2.042	2.949	9.0	18.1
2 1	9 25.17	+ 0 54.0	1.991	2.943	6.0	17.9
2 11	9 16.82	+ 2 3.2	1.968	2.937	4.4	17.8
2 21	9 8.64	+ 3 23.7	1.974	2.931	6.0	17.9
3 2	9 1.53	+ 4 48.9	2.009	2.924	9.0	18.1
3 12	8 56.21	+ 6 12.4	2.070	2.916	12.2	18.2

43264 2000 DZ_{52} 2 7.2 108°.05 1°.5/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.57	+ 8 39.7	2.035	2.812	14.5	20.1
1 12	9 42.23	+ 9 3.9	1.966	2.835	11.2	19.9
1 22	9 34.78	+ 9 41.9	1.921	2.857	7.5	19.7
2 1	9 25.87	+10 30.3	1.903	2.878	3.5	19.5
2 11	9 16.44	+11 24.1	1.915	2.899	1.9	19.4
2 21	9 7.48	+12 18.2	1.957	2.919	5.5	19.7
3 2	8 59.91	+13 7.5	2.027	2.938	9.2	20.0
3 12	8 54.39	+13 48.9	2.123	2.957	12.4	20.2

296700 2009 SG_{277} 2 7.2 150°.42 1°.4/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.95	+ 8 25.1	2.342	3.115	12.9	21.9
1 12	9 40.13	+ 8 49.6	2.258	3.124	10.1	21.7
1 22	9 33.42	+ 9 26.9	2.197	3.132	6.7	21.5
2 1	9 25.36	+10 14.1	2.165	3.139	3.2	21.3
2 11	9 16.74	+11 7.1	2.162	3.146	1.7	21.2
2 21	9 8.41	+12 1.3	2.190	3.152	5.0	21.4
3 2	9 1.18	+12 52.2	2.248	3.158	8.4	21.6
3 12	8 55.73	+13 36.3	2.331	3.163	11.5	21.8

426284 2012 TJ_{26} 2 7.2 160°.25 3°.5/ 4.5 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.23	+26 9.3	2.444	3.249	11.5	21.4
1 12	9 42.65	+26 38.1	2.365	3.252	8.8	21.2
1 22	9 35.03	+27 6.6	2.312	3.254	5.9	21.0
2 1	9 25.97	+27 29.8	2.287	3.256	3.7	20.9
2 11	9 16.37	+27 43.2	2.292	3.258	4.2	20.9
2 21	9 7.17	+27 44.1	2.327	3.260	6.8	21.1
3 2	8 59.26	+27 31.6	2.389	3.261	9.7	21.3
3 12	8 53.29	+27 6.7	2.475	3.263	12.2	21.5

414260 2008 GQ_{88} 2 7.2 93°.01 1°.5/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 45.75	+16 40.7	1.794	2.606	14.7	21.6
1 12	9 41.39	+17 21.3	1.717	2.609	11.2	21.4
1 22	9 34.54	+18 11.8	1.662	2.612	7.1	21.1
2 1	9 25.87	+19 6.6	1.634	2.614	2.8	20.8
2 11	9 16.42	+19 58.9	1.635	2.617	2.7	20.8
2 21	9 7.38	+20 42.7	1.664	2.620	7.0	21.1
3 2	8 59.85	+21 14.1	1.720	2.622	11.1	21.4
3 12	8 54.68	+21 31.4	1.798	2.625	14.6	21.6

221101 2005 SX_{107} 2 7.2 70°.95 1°.9/ 5.9 18

1 2	9 47.67	+18 50.7	1.763	2.576	14.9	20.9
1 12	9 42.79	+19 19.9	1.694	2.587	11.3	20.7
1 22	9 35.37	+19 55.8	1.648	2.598	7.2	20.5
2 1	9 26.16	+20 32.9	1.630	2.609	3.0	20.2
2 11	9 16.29	+21 5.1	1.639	2.620	3.0	20.3
2 21	9 6.96	+21 27.6	1.677	2.631	7.1	20.5
3 2	8 59.29	+21 37.7	1.741	2.642	11.1	20.8
3 12	8 54.07	+21 35.1	1.828	2.653	14.5	21.0

331799 2003 QS_{58} 2 7.2 222°.01 1°.3/ 6.0 18

1 2	9 45.36	+17 33.3	2.575	3.370	11.3	21.8
1 12	9 40.47	+18 10.4	2.477	3.360	8.6	21.6
1 22	9 33.68	+18 54.0	2.403	3.350	5.5	21.4
2 1	9 25.50	+19 40.3	2.359	3.338	2.2	21.1
2 11	9 16.66	+20 24.5	2.346	3.326	2.2	21.1
2 21	9 7.98	+21 2.6	2.363	3.314	5.5	21.3
3 2	9 0.31	+21 31.5	2.409	3.301	8.8	21.5
3 12	8 54.32	+21 49.6	2.480	3.288	11.6	21.7

246252 2007 TY_{6} 2 7.2 109°.21 1°.7/ 8.6 18

1 2	9 43.81	+ 8 41.2	2.400	3.175	12.6	20.6
1 12	9 39.19	+ 8 44.7	2.317	3.184	9.8	20.4
1 22	9 32.78	+ 8 59.2	2.259	3.192	6.6	20.2
2 1	9 25.11	+ 9 22.9	2.228	3.201	3.3	20.0
2 11	9 16.93	+ 9 52.7	2.227	3.210	1.9	19.9
2 21	9 9.06	+10 24.9	2.256	3.218	4.9	20.1
3 2	9 2.26	+10 56.0	2.314	3.226	8.1	20.3
3 12	8 57.16	+11 23.0	2.397	3.234	11.0	20.5

112944 2002 RV_{6} 2 7.2 80°.50 0°.3/ 7.4 18

1 2	9 44.95	+13 5.8	2.143	2.937	13.3	19.7
1 12	9 40.25	+13 19.8	2.068	2.949	10.2	19.5
1 22	9 33.53	+13 43.2	2.017	2.961	6.6	19.3
2 1	9 25.41	+14 12.8	1.994	2.973	2.6	19.0
2 11	9 16.75	+14 44.5	2.000	2.985	1.5	19.0
2 21	9 8.49	+15 14.0	2.036	2.997	5.4	19.3
3 2	9 1.50	+15 38.2	2.099	3.008	9.0	19.5
3 12	8 56.43	+15 54.8	2.187	3.020	12.1	19.7

190425 1999 VM_{137} 2 7.2 155°.74 0°.5/ 7.6 18 R

1 2	9 44.70	+12 5.4	2.231	3.021	13.0	20.9
1 12	9 40.07	+12 24.6	2.146	3.024	10.0	20.7
1 22	9 33.46	+12 54.2	2.085	3.027	6.5	20.5
2 1	9 25.40	+13 30.9	2.052	3.030	2.7	20.3
2 11	9 16.75	+14 10.7	2.048	3.033	1.5	20.2
2 21	9 8.39	+14 49.2	2.074	3.035	5.3	20.4
3 2	9 1.20	+15 22.5	2.128	3.037	8.9	20.7
3 12	8 55.87	+15 48.1	2.208	3.039	12.1	20.9

39091 2000 VX_{54} 2 7.2 202°.02 0°.2/ 7.3 18

1 2	9 49.40	+13 13.1	2.110	2.897	13.7	19.7
1 12	9 43.86	+13 30.5	2.016	2.892	10.6	19.5
1 22	9 36.03	+13 58.0	1.945	2.887	6.9	19.3
2 1	9 26.47	+14 32.3	1.902	2.881	2.8	19.0
2 11	9 16.10	+15 8.7	1.889	2.874	1.6	18.9
2 21	9 5.99	+15 42.6	1.906	2.866	5.9	19.2
3 2	8 57.17	+16 10.3	1.952	2.857	9.8	19.4
3 12	8 50.47	+16 29.3	2.023	2.848	13.3	19.6

230506 2002 UG_{49} 2 7.2 84°.55 0°.7/ 6.9 18

1 2	9 53.55	+16 27.4	1.381	2.195	18.2	19.8
1 12	9 47.74	+16 32.2	1.320	2.212	13.9	19.5
1 22	9 38.74	+16 46.7	1.280	2.229	8.9	19.3
2 1	9 27.51	+17 5.5	1.265	2.246	3.4	19.0
2 11	9 15.53	+17 22.3	1.278	2.262	2.4	19.0
2 21	9 4.42	+17 32.3	1.318	2.278	7.8	19.3
3 2	8 55.55	+17 32.8	1.383	2.294	12.6	19.7
3 12	8 49.80	+17 23.1	1.470	2.310	16.6	19.9

106579 2000 WO_{98} 2 7.2 66°.66 2°.4/ 5.7 18

1 2	9 48.60	+17 42.8	1.427	2.250	17.3	19.7
1 12	9 43.91	+18 37.5	1.373	2.271	13.0	19.5
1 22	9 36.26	+19 42.5	1.340	2.292	8.2	19.3
2 1	9 26.54	+20 49.5	1.333	2.313	3.5	19.1
2 11	9 16.13	+21 49.6	1.354	2.334	3.7	19.1
2 21	9 6.49	+22 35.7	1.401	2.355	8.2	19.5
3 2	8 58.90	+23 4.3	1.474	2.376	12.6	19.8
3 12	8 54.19	+23 15.1	1.568	2.397	16.2	20.1

111858 2002 EO_{72} 2 7.2 241°.55 1°.5/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.74	+ 9 33.3	1.840	2.629	15.3	20.0
1 12	9 42.22	+ 9 47.8	1.742	2.617	12.1	19.7
1 22	9 35.19	+10 17.4	1.666	2.605	8.1	19.5
2 1	9 26.21	+10 59.4	1.617	2.593	3.7	19.2
2 11	9 16.24	+11 49.1	1.596	2.580	2.0	19.0
2 21	9 6.46	+12 40.7	1.603	2.566	6.3	19.3
3 2	8 58.04	+13 28.6	1.639	2.553	10.8	19.5
3 12	8 51.92	+14 8.3	1.697	2.538	14.6	19.7

458926 2011 UE_{283} 2 7.2 98°.52 1°.1/ 6.5 18

1 2	9 47.48	+15 0.3	1.611	2.422	16.2	21.3
1 12	9 42.88	+15 44.8	1.542	2.433	12.3	21.1
1 22	9 35.57	+16 41.8	1.495	2.444	7.8	20.9
2 1	9 26.30	+17 45.0	1.475	2.455	3.0	20.6
2 11	9 16.25	+18 46.6	1.482	2.465	2.5	20.6
2 21	9 6.73	+19 39.8	1.518	2.476	7.3	20.9
3 2	8 58.95	+20 19.7	1.580	2.486	11.6	21.2
3 12	8 53.77	+20 44.4	1.664	2.496	15.3	21.4

460002 2014 OY_{92} 2 7.2 227°.05 2°.9/ 8.9 18

1 2	9 48.55	+ 7 21.7	1.751	2.532	16.3	21.9
1 12	9 43.66	+ 7 9.4	1.658	2.525	13.0	21.7
1 22	9 36.13	+ 7 12.5	1.585	2.517	9.1	21.4
2 1	9 26.57	+ 7 29.7	1.539	2.509	4.9	21.1
2 11	9 16.03	+ 7 58.0	1.520	2.501	3.1	21.0
2 21	9 5.74	+ 8 32.6	1.530	2.492	6.7	21.2
3 2	8 56.93	+ 9 8.3	1.566	2.482	11.0	21.4
3 12	8 50.55	+ 9 40.4	1.627	2.473	14.9	21.7

375033 2007 HS_{18} 2 7.2 330°.15 7°.5/12.6 18

1 2	9 39.52	− 4 30.9	1.634	2.385	18.5	20.5
1 12	9 36.96	− 4 53.7	1.539	2.372	15.7	20.3
1 22	9 31.93	− 4 50.2	1.462	2.359	12.5	20.0
2 1	9 24.96	− 4 17.4	1.407	2.346	9.4	19.8
2 11	9 17.01	− 3 16.4	1.377	2.335	7.6	19.7
2 21	9 9.22	− 1 52.4	1.372	2.324	8.6	19.7
3 2	9 2.79	− 0 13.9	1.393	2.314	11.7	19.9
3 12	8 58.67	+ 1 28.6	1.436	2.304	15.3	20.0

175959 2000 HS_{84} 2 7.2 299°.80 0°.4/ 7.5 18

1 2	9 43.09	+11 6.2	1.676	2.483	15.9	19.8
1 12	9 39.68	+11 41.5	1.582	2.469	12.3	19.5
1 22	9 33.68	+12 33.6	1.511	2.456	8.1	19.2
2 1	9 25.65	+13 38.7	1.464	2.443	3.3	18.9
2 11	9 16.60	+14 50.1	1.446	2.431	1.8	18.8
2 21	9 7.75	+16 0.2	1.455	2.418	6.8	19.0
3 2	9 0.33	+17 2.1	1.490	2.406	11.5	19.3
3 12	8 55.32	+17 51.0	1.548	2.394	15.6	19.5

322856 2001 UZ_{78} 2 7.2 106°.41 2°.6/ 9.1 18

1 2	9 45.45	+ 6 23.2	1.949	2.725	15.1	21.2
1 12	9 40.83	+ 6 31.1	1.872	2.737	11.9	21.0
1 22	9 34.03	+ 6 54.8	1.817	2.748	8.2	20.8
2 1	9 25.66	+ 7 32.1	1.789	2.759	4.4	20.6
2 11	9 16.67	+ 8 19.0	1.789	2.770	2.7	20.5
2 21	9 8.07	+ 9 10.1	1.818	2.781	5.8	20.7
3 2	9 0.82	+10 0.3	1.875	2.791	9.5	20.9
3 12	8 55.65	+10 45.0	1.957	2.801	12.8	21.2

467142 2016 EZ_{79} 2 7.2 99°.58 2°.8/ 5.0 18

1 2	9 45.52	+20 4.1	1.906	2.721	13.9	21.1
1 12	9 41.13	+21 2.5	1.832	2.726	10.5	20.9
1 22	9 34.35	+22 8.1	1.782	2.731	6.7	20.6
2 1	9 25.83	+23 14.0	1.759	2.736	3.3	20.4
2 11	9 16.57	+24 13.0	1.766	2.741	3.9	20.5
2 21	9 7.72	+24 59.4	1.800	2.746	7.5	20.7
3 2	9 0.33	+25 29.8	1.862	2.751	11.1	20.9
3 12	8 55.20	+25 43.5	1.946	2.755	14.3	21.2

343954 2011 KW_{30} 2 7.2 200°.28 0°.6/ 7.8 17

1 2	9 42.78	+10 58.8	2.440	3.224	12.1	21.5
1 12	9 38.52	+11 27.1	2.348	3.222	9.4	21.3
1 22	9 32.44	+12 6.2	2.280	3.220	6.1	21.1
2 1	9 25.04	+12 53.3	2.240	3.218	2.6	20.9
2 11	9 17.05	+13 44.2	2.231	3.215	1.4	20.8
2 21	9 9.27	+14 34.5	2.251	3.213	4.9	21.0
3 2	9 2.50	+15 20.0	2.301	3.210	8.3	21.2
3 12	8 57.38	+15 57.9	2.376	3.206	11.3	21.4

420120 2011 FS_{25} 2 7.2 309°.20 8°.6/30.9 18

1 2	9 48.61	+36 41.1	1.911	2.728	13.8	20.3
1 12	9 44.03	+38 10.9	1.842	2.720	11.3	20.1
1 22	9 36.50	+39 34.8	1.796	2.712	9.3	20.0
2 1	9 26.74	+40 42.6	1.777	2.705	8.6	19.9
2 11	9 16.00	+41 25.7	1.783	2.698	9.7	19.9
2 21	9 5.71	+41 39.7	1.815	2.691	11.9	20.1
3 2	8 57.26	+41 24.7	1.869	2.684	14.5	20.2
3 12	8 51.60	+40 44.8	1.943	2.677	16.9	20.4

59766 1999 NW_6 2 7.2 239°.34 0°.4/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 45.72	+12 17.2	2.463	3.245	12.1	20.5
1 12	9 40.85	+12 37.4	2.355	3.229	9.4	20.3
1 22	9 34.02	+13 7.3	2.271	3.212	6.1	20.1
2 1	9 25.70	+13 44.4	2.216	3.194	2.5	19.8
2 11	9 16.63	+14 24.6	2.191	3.176	1.4	19.7
2 21	9 7.68	+15 3.9	2.198	3.157	5.2	19.9
3 2	8 59.71	+15 38.5	2.233	3.138	8.7	20.1
3 12	8 53.46	+16 5.8	2.294	3.118	11.9	20.3

498917 2009 AX_{48} 2 7.2 25°.04 1°.5/ 8.2 18

1 2	9 43.72	+10 41.5	1.909	2.704	14.6	21.3
1 12	9 39.59	+10 38.6	1.831	2.711	11.3	21.1
1 22	9 33.27	+10 47.5	1.777	2.717	7.5	20.9
2 1	9 25.38	+11 5.9	1.748	2.725	3.5	20.6
2 11	9 16.87	+11 30.0	1.748	2.732	1.9	20.5
2 21	9 8.75	+11 55.7	1.776	2.740	5.7	20.8
3 2	9 2.00	+12 19.1	1.832	2.749	9.6	21.0
3 12	8 57.33	+12 37.0	1.911	2.758	13.0	21.3

52673 1998 DW_5 2 7.2 278°.19 2°.2/ 5.8 18

1 2	9 50.61	+22 55.2	2.438	3.235	11.8	19.0
1 12	9 44.60	+22 55.9	2.333	3.216	9.0	18.8
1 22	9 36.42	+22 57.2	2.253	3.198	5.9	18.6
2 1	9 26.63	+22 55.3	2.202	3.179	2.9	18.3
2 11	9 16.11	+22 46.5	2.182	3.160	3.0	18.3
2 21	9 5.84	+22 28.5	2.193	3.140	6.2	18.5
3 2	8 56.78	+22 0.5	2.233	3.121	9.5	18.6
3 12	8 49.71	+21 23.2	2.298	3.102	12.6	18.8

460362 2014 RF_{61} 2 7.2 194°.51 1°.1/ 6.4 18

1 2	9 46.81	+14 47.0	1.901	2.703	14.4	21.5
1 12	9 42.17	+15 39.5	1.815	2.702	11.0	21.2
1 22	9 35.09	+16 44.2	1.753	2.700	7.0	21.0
2 1	9 26.17	+17 55.6	1.717	2.697	2.7	20.7
2 11	9 16.39	+19 6.6	1.712	2.694	2.4	20.7
2 21	9 6.89	+20 10.4	1.735	2.691	6.7	21.0
3 2	8 58.80	+21 1.8	1.786	2.687	10.8	21.2
3 12	8 52.97	+21 38.4	1.861	2.682	14.4	21.4

237505 2000 QH_{192} 2 7.2 151°.84 3°.9/ 3.2 17

1 2	9 47.21	+29 59.7	3.171	3.969	9.3	21.3
1 12	9 41.48	+30 40.9	3.100	3.978	7.2	21.2
1 22	9 34.12	+31 19.8	3.055	3.987	5.2	21.1
2 1	9 25.65	+31 51.9	3.039	3.995	3.9	21.0
2 11	9 16.77	+32 13.4	3.054	4.003	4.5	21.0
2 21	9 8.21	+32 22.3	3.100	4.010	6.3	21.2
3 2	9 0.67	+32 17.8	3.173	4.017	8.3	21.3
3 12	8 54.70	+32 1.0	3.271	4.024	10.3	21.5

213689 2002 TG_{226} 2 7.2 132°.33 7°.2/13.9 18

1 2	9 45.17	− 8 57.5	2.231	2.919	15.8	20.7
1 12	9 40.40	− 9 13.0	2.149	2.933	13.6	20.6
1 22	9 33.68	− 9 5.4	2.086	2.946	11.1	20.4
2 1	9 25.55	− 8 33.5	2.048	2.959	8.7	20.3
2 11	9 16.84	− 7 38.4	2.036	2.972	7.3	20.2
2 21	9 8.44	− 6 24.6	2.052	2.984	7.7	20.3
3 2	9 1.21	− 4 58.4	2.096	2.995	9.6	20.4
3 12	8 55.82	− 3 27.4	2.166	3.005	12.0	20.6

118743 2000 QV_{146} 2 7.2 89°.78 2°.3/ 5.6 18

1 2	9 47.23	+19 46.7	1.895	2.707	14.1	19.9
1 12	9 42.36	+20 25.6	1.825	2.718	10.6	19.7
1 22	9 35.09	+21 10.5	1.779	2.728	6.8	19.4
2 1	9 26.12	+21 55.6	1.760	2.738	3.1	19.2
2 11	9 16.51	+22 34.7	1.769	2.748	3.3	19.3
2 21	9 7.38	+23 2.9	1.808	2.758	7.1	19.5
3 2	8 59.79	+23 17.8	1.873	2.768	10.7	19.7
3 12	8 54.49	+23 18.9	1.961	2.777	13.9	20.0

58088 2256 T-$_3$ 2 7.2 255°.40 3°.2/ 5.5 18

1 2	9 51.20	+21 30.2	1.543	2.364	16.3	19.4
1 12	9 46.21	+22 1.7	1.459	2.355	12.6	19.1
1 22	9 38.04	+22 39.3	1.397	2.346	8.2	18.8
2 1	9 27.43	+23 15.9	1.360	2.337	4.0	18.6
2 11	9 15.67	+23 43.6	1.350	2.328	4.4	18.6
2 21	9 4.34	+23 56.7	1.368	2.318	8.8	18.8
3 2	8 54.94	+23 52.5	1.411	2.308	13.4	19.0
3 12	8 48.55	+23 32.0	1.475	2.299	17.4	19.3

518627 2008 EU_{171} 2 7.2 248°.61 0°.5/ 7.5 17

1 2	9 46.60	+12 31.8	2.077	2.868	13.7	22.0
1 12	9 41.88	+12 46.5	1.975	2.854	10.7	21.7
1 22	9 34.88	+13 12.2	1.897	2.839	7.0	21.5
2 1	9 26.12	+13 45.8	1.846	2.824	2.9	21.2
2 11	9 16.48	+14 23.1	1.824	2.809	1.6	21.1
2 21	9 7.01	+14 59.2	1.832	2.793	5.9	21.3
3 2	8 58.75	+15 30.0	1.867	2.776	10.0	21.5
3 12	8 52.55	+15 52.6	1.927	2.760	13.5	21.7

61010 2000 KR_{36} 2 7.2 166°.00 2°.0/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 44.44	+ 6 3.6	2.205	2.974	13.8	20.4
1 12	9 39.94	+ 6 33.3	2.117	2.978	10.8	20.2
1 22	9 33.45	+ 7 18.7	2.051	2.981	7.4	20.0
2 1	9 25.49	+ 8 17.4	2.013	2.985	3.9	19.8
2 11	9 16.89	+ 9 24.7	2.005	2.987	2.2	19.6
2 21	9 8.55	+10 35.2	2.027	2.989	5.3	19.8
3 2	9 1.34	+11 43.1	2.078	2.991	8.8	20.1
3 12	8 55.97	+12 44.0	2.154	2.992	12.1	20.3

82816 2001 QR_{37} 2 7.2 107°.05 0°.6/ 7.7 18

1 2	9 47.99	+10 58.9	2.193	2.973	13.5	20.7
1 12	9 42.43	+11 27.8	2.127	2.999	10.3	20.5
1 22	9 34.89	+12 7.8	2.084	3.024	6.7	20.3
2 1	9 26.00	+12 55.1	2.070	3.048	2.8	20.1
2 11	9 16.64	+13 45.1	2.087	3.072	1.5	20.0
2 21	9 7.74	+14 32.9	2.134	3.094	5.2	20.3
3 2	9 0.16	+15 14.6	2.210	3.117	8.7	20.6
3 12	8 54.53	+15 47.7	2.311	3.138	11.7	20.8

197194 2003 VX_1 2 7.2 122°.87 3°.1/ 9.6 18

1 2	9 44.00	+ 5 8.7	2.218	2.984	13.8	20.2
1 12	9 39.56	+ 5 2.0	2.132	2.988	11.0	20.0
1 22	9 33.17	+ 5 9.2	2.067	2.992	7.8	19.8
2 1	9 25.38	+ 5 29.5	2.030	2.995	4.6	19.6
2 11	9 16.98	+ 6 0.1	2.021	2.999	3.1	19.5
2 21	9 8.87	+ 6 37.3	2.042	3.002	5.4	19.7
3 2	9 1.89	+ 7 16.6	2.091	3.006	8.7	19.9
3 12	8 56.72	+ 7 54.0	2.165	3.009	11.8	20.1

17496 Augustinus 2 7.2 276°.55 5°.0/ 4.1 18

1 2	9 50.01	+24 40.9	1.569	2.394	15.9	18.6
1 12	9 45.51	+25 37.6	1.478	2.375	12.3	18.4
1 22	9 37.75	+26 39.7	1.409	2.357	8.4	18.1
2 1	9 27.39	+27 38.4	1.366	2.337	5.3	17.9
2 11	9 15.68	+28 23.9	1.350	2.318	6.2	17.9
2 21	9 4.23	+28 48.8	1.361	2.298	10.2	18.0
3 2	8 54.64	+28 50.4	1.395	2.279	14.5	18.2
3 12	8 48.10	+28 30.0	1.451	2.259	18.4	18.4

98461 2000 UQ_{76} 2 7.2 11°.50 0°.8/ 6.8 18

1 2	9 45.21	+15 45.1	1.176	2.014	19.3	18.7
1 12	9 42.05	+15 56.8	1.111	2.016	14.8	18.5
1 22	9 35.51	+16 21.6	1.065	2.019	9.5	18.2
2 1	9 26.44	+16 54.1	1.042	2.023	3.7	17.9
2 11	9 16.34	+17 26.4	1.044	2.028	2.7	17.8
2 21	9 6.93	+17 51.6	1.070	2.035	8.5	18.2
3 2	8 59.76	+18 4.9	1.120	2.042	13.8	18.5
3 12	8 55.83	+18 4.6	1.189	2.050	18.3	18.8

423464 2005 SU_{161} 2 7.2 146°.82 4°.2/10.9 18

1 2	9 44.70	− 0 19.4	2.349	3.084	13.9	22.0
1 12	9 39.96	− 0 13.3	2.263	3.094	11.4	21.8
1 22	9 33.36	+ 0 10.4	2.199	3.103	8.5	21.7
2 1	9 25.44	+ 0 51.1	2.161	3.112	5.7	21.5
2 11	9 16.96	+ 1 46.1	2.152	3.121	4.2	21.4
2 21	9 8.75	+ 2 50.6	2.174	3.128	5.6	21.5
3 2	9 1.62	+ 3 59.4	2.224	3.135	8.4	21.7
3 12	8 56.22	+ 5 7.0	2.300	3.142	11.3	21.9

505205 2012 TP_{195} 2 7.2 90°.78 6°.6/13.7 17

1 2	9 41.73	− 8 5.1	2.516	3.206	14.2	21.5
1 12	9 37.60	− 8 29.1	2.433	3.218	12.1	21.4
1 22	9 31.81	− 8 33.6	2.370	3.230	9.9	21.3
2 1	9 24.83	− 8 17.5	2.331	3.242	7.9	21.1
2 11	9 17.36	− 7 41.5	2.320	3.253	6.7	21.1
2 21	9 10.14	− 6 48.9	2.336	3.265	7.0	21.1
3 2	9 3.90	− 5 44.6	2.380	3.276	8.7	21.3
3 12	8 59.22	− 4 34.3	2.450	3.288	10.8	21.4

303850 2005 SR_{193} 2 7.2 79°.52 4°.2/ 3.5 17

1 2	9 45.63	+28 27.7	2.574	3.383	10.9	20.7
1 12	9 40.63	+29 11.4	2.507	3.394	8.4	20.5
1 22	9 33.75	+29 53.8	2.466	3.404	5.9	20.4
2 1	9 25.57	+30 29.4	2.452	3.414	4.2	20.3
2 11	9 16.92	+30 53.7	2.469	3.424	4.9	20.3
2 21	9 8.67	+31 4.0	2.514	3.435	7.0	20.5
3 2	9 1.63	+30 59.4	2.586	3.445	9.5	20.7
3 12	8 56.40	+30 41.1	2.682	3.455	11.8	20.9

341760 2007 VE_{315} 2 7.2 1°.56 1°.0/ 6.5 18

1 2	9 44.14	+17 6.8	2.062	2.870	13.2	20.3
1 12	9 39.88	+17 23.0	1.979	2.869	10.1	20.1
1 22	9 33.48	+17 46.2	1.921	2.869	6.4	19.9
2 1	9 25.53	+18 12.4	1.889	2.869	2.5	19.6
2 11	9 16.93	+18 37.1	1.887	2.870	2.1	19.6
2 21	9 8.68	+18 56.3	1.913	2.870	6.0	19.9
3 2	9 1.72	+19 7.1	1.966	2.872	9.7	20.1
3 12	8 56.78	+19 8.4	2.044	2.873	13.0	20.3

502251 2015 BJ_{103} 2 7.2 190°.44 0°.6/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 42.28	+10 23.3	2.485	3.267	12.0	21.8
1 12	9 38.13	+11 1.1	2.393	3.267	9.3	21.6
1 22	9 32.22	+11 50.4	2.326	3.266	6.1	21.4
2 1	9 25.02	+12 48.3	2.287	3.265	2.6	21.1
2 11	9 17.23	+13 50.1	2.278	3.263	1.3	21.0
2 21	9 9.65	+14 51.2	2.300	3.261	4.9	21.3
3 2	9 3.04	+15 47.1	2.351	3.260	8.2	21.5
3 12	8 58.04	+16 34.5	2.428	3.257	11.2	21.7

465987 2011 DS_2 2 7.2 50°.23 1°.2/ 8.1 18

1 2	9 43.67	+ 9 32.7	1.727	2.526	15.8	21.1
1 12	9 39.77	+ 9 59.2	1.657	2.538	12.2	20.9
1 22	9 33.51	+10 41.5	1.608	2.550	8.1	20.6
2 1	9 25.55	+11 35.7	1.586	2.563	3.6	20.4
2 11	9 16.93	+12 35.9	1.591	2.576	1.8	20.3
2 21	9 8.76	+13 35.6	1.625	2.589	6.1	20.6
3 2	9 2.09	+14 29.1	1.685	2.603	10.3	20.9
3 12	8 57.68	+15 12.2	1.769	2.616	13.9	21.1

142434 2002 SE_{46} 2 7.2 51°.43 3°.4/ 5.3 18

1 2	9 49.51	+21 8.6	1.409	2.237	17.2	20.0
1 12	9 44.63	+21 51.8	1.360	2.260	13.0	19.8
1 22	9 36.74	+22 40.6	1.332	2.283	8.3	19.6
2 1	9 26.79	+23 26.9	1.329	2.306	4.1	19.4
2 11	9 16.23	+24 2.7	1.353	2.330	4.5	19.5
2 21	9 6.55	+24 22.8	1.403	2.353	8.6	19.8
3 2	8 59.02	+24 25.4	1.479	2.377	12.8	20.1
3 12	8 54.42	+24 11.7	1.575	2.402	16.3	20.4

168516 1999 TY_{159} 2 7.2 70°.45 1°.6/ 8.2 18

1 2	9 47.95	+ 9 47.0	1.528	2.328	17.4	19.9
1 12	9 43.21	+ 9 56.0	1.465	2.346	13.5	19.7
1 22	9 35.78	+10 21.0	1.423	2.364	9.0	19.4
2 1	9 26.43	+10 58.4	1.406	2.383	4.1	19.2
2 11	9 16.41	+11 42.6	1.417	2.401	2.2	19.1
2 21	9 7.03	+12 27.3	1.455	2.419	6.7	19.4
3 2	8 59.46	+13 6.9	1.519	2.438	11.1	19.7
3 12	8 54.51	+13 37.6	1.606	2.456	14.9	20.0

312208 2007 VO_{275} 2 7.2 352°.18 1°.4/ 8.1 18

1 2	9 45.89	+10 27.2	1.571	2.375	16.9	21.1
1 12	9 41.85	+10 36.0	1.490	2.374	13.2	20.8
1 22	9 35.08	+11 0.2	1.430	2.373	8.8	20.5
2 1	9 26.25	+11 37.0	1.395	2.373	3.9	20.3
2 11	9 16.50	+12 20.9	1.388	2.372	2.1	20.1
2 21	9 7.14	+13 5.7	1.407	2.372	6.8	20.4
3 2	8 59.44	+13 45.5	1.453	2.372	11.5	20.7
3 12	8 54.31	+14 16.3	1.521	2.372	15.5	20.9

100074 1992 OB_2 2 7.2 160°.99 0°.4/ 7.6 18

1 2	9 47.22	+12 29.2	2.380	3.162	12.5	21.0
1 12	9 41.88	+12 47.0	2.295	3.169	9.6	20.8
1 22	9 34.60	+13 14.0	2.235	3.175	6.2	20.6
2 1	9 25.94	+13 47.2	2.202	3.180	2.6	20.4
2 11	9 16.71	+14 22.7	2.201	3.185	1.4	20.3
2 21	9 7.79	+14 56.4	2.230	3.190	5.1	20.6
3 2	9 0.01	+15 25.2	2.288	3.193	8.6	20.8
3 12	8 54.04	+15 46.7	2.372	3.196	11.6	21.0

343009 2009 BL_{89} 2 7.2 95°.89 0°.7/ 7.7 18

1 2	9 45.04	+12 45.5	2.324	3.112	12.6	20.8
1 12	9 40.28	+12 45.7	2.237	3.114	9.7	20.6
1 22	9 33.61	+12 54.1	2.175	3.116	6.3	20.4
2 1	9 25.56	+13 8.6	2.140	3.118	2.7	20.2
2 11	9 16.95	+13 25.9	2.135	3.120	1.4	20.1
2 21	9 8.64	+13 42.8	2.160	3.122	5.1	20.4
3 2	9 1.46	+13 56.4	2.214	3.124	8.6	20.6
3 12	8 56.08	+14 4.7	2.292	3.125	11.6	20.8

248536 2005 WL_{185} 2 7.2 315°.25 14°.1/ 2.4 18

1 2	10 10.67	+44 49.4	1.284	2.085	20.0	18.6
1 12	10 3.36	+45 35.3	1.196	2.055	17.6	18.4
1 22	9 50.29	+46 2.3	1.127	2.025	15.3	18.1
2 1	9 32.52	+45 51.2	1.079	1.996	14.1	18.0
2 11	9 12.69	+44 46.4	1.054	1.968	14.9	17.9
2 21	8 54.14	+42 44.3	1.052	1.940	17.5	18.0
3 2	8 39.73	+39 54.4	1.073	1.913	21.1	18.1
3 12	8 30.87	+36 34.3	1.112	1.887	24.8	18.3

327323 2005 UM_{78} 2 7.2 246°.62 1°.6/ 6.1 17

1 2	9 46.65	+17 45.0	2.010	2.816	13.6	22.0
1 12	9 42.01	+18 18.6	1.918	2.807	10.4	21.8
1 22	9 35.00	+19 0.3	1.848	2.796	6.7	21.6
2 1	9 26.19	+19 45.2	1.807	2.786	2.7	21.3
2 11	9 16.53	+20 27.5	1.794	2.775	2.7	21.3
2 21	9 7.12	+21 2.0	1.811	2.764	6.7	21.5
3 2	8 59.03	+21 25.1	1.855	2.753	10.6	21.7
3 12	8 53.12	+21 35.5	1.922	2.742	14.0	21.9

522526 2016 EL_{236} 2 7.2 357°.51 5°.6/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 43.71	+25 48.1	1.881	2.708	13.6	21.0
1 12	9 40.06	+27 34.7	1.810	2.707	10.4	20.8
1 22	9 33.88	+29 25.9	1.763	2.706	7.3	20.6
2 1	9 25.78	+31 12.0	1.744	2.706	5.6	20.5
2 11	9 16.79	+32 43.2	1.753	2.706	6.8	20.6
2 21	9 8.10	+33 52.5	1.790	2.706	9.7	20.8
3 2	9 0.89	+34 36.5	1.851	2.706	12.9	21.0
3 12	8 56.06	+34 56.2	1.934	2.707	15.7	21.2

170976 2005 CP_{32} 2 7.2 120°.68 1°.2/ 6.3 18

1 2	9 49.46	+16 9.2	1.867	2.668	14.7	21.0
1 12	9 44.02	+16 51.2	1.798	2.685	11.1	20.8
1 22	9 36.16	+17 42.5	1.754	2.701	7.1	20.6
2 1	9 26.58	+18 37.4	1.736	2.716	2.8	20.4
2 11	9 16.36	+19 29.5	1.748	2.730	2.5	20.4
2 21	9 6.65	+20 13.1	1.790	2.745	6.6	20.7
3 2	8 58.52	+20 44.6	1.859	2.758	10.5	20.9
3 12	8 52.73	+21 2.8	1.951	2.771	13.9	21.2

303966 2006 AE_{40} 2 7.2 194°.01 0°.2/ 7.1 18

1 2	9 50.20	+14 13.9	1.995	2.786	14.2	22.0
1 12	9 44.63	+14 36.5	1.905	2.784	11.0	21.8
1 22	9 36.64	+15 9.2	1.838	2.782	7.1	21.6
2 1	9 26.82	+15 48.0	1.799	2.778	2.8	21.3
2 11	9 16.17	+16 27.7	1.789	2.774	1.8	21.2
2 21	9 5.82	+17 3.2	1.810	2.768	6.2	21.5
3 2	8 56.87	+17 30.8	1.859	2.762	10.3	21.7
3 12	8 50.17	+17 48.2	1.932	2.755	13.8	21.9

324615 2006 YV_{33} 2 7.2 66°.79 1°.5/ 6.3 18

1 2	9 48.69	+17 59.3	1.683	2.496	15.5	21.0
1 12	9 43.65	+18 21.1	1.618	2.510	11.8	20.8
1 22	9 36.01	+18 50.4	1.575	2.524	7.5	20.5
2 1	9 26.53	+19 21.7	1.559	2.539	3.0	20.3
2 11	9 16.40	+19 49.1	1.571	2.553	2.7	20.3
2 21	9 6.89	+20 8.0	1.611	2.567	7.1	20.6
3 2	8 59.14	+20 15.6	1.677	2.582	11.2	20.9
3 12	8 53.92	+20 11.5	1.767	2.597	14.7	21.1

289648 2005 GT_{108} 2 7.2 277°.80 0°.3/ 7.0 18

1 2	9 45.70	+13 42.1	1.697	2.505	15.6	21.5
1 12	9 41.73	+14 11.4	1.602	2.491	12.1	21.2
1 22	9 35.06	+14 54.3	1.530	2.477	7.8	20.9
2 1	9 26.29	+15 46.4	1.483	2.463	3.1	20.6
2 11	9 16.46	+16 41.3	1.465	2.449	2.0	20.5
2 21	9 6.83	+17 32.3	1.474	2.435	7.1	20.8
3 2	8 58.69	+18 13.7	1.509	2.421	11.7	21.0
3 12	8 53.03	+18 42.2	1.568	2.406	15.8	21.2

50757 2000 EA_{183} 2 7.2 168°.76 2°.9/ 4.5 18

1 2	9 44.52	+22 3.4	2.420	3.228	11.5	19.4
1 12	9 39.97	+23 3.5	2.340	3.230	8.7	19.2
1 22	9 33.46	+24 7.9	2.286	3.232	5.7	19.0
2 1	9 25.53	+25 11.1	2.260	3.234	3.2	18.8
2 11	9 16.98	+26 7.2	2.265	3.235	3.8	18.9
2 21	9 8.71	+26 51.6	2.299	3.236	6.6	19.1
3 2	9 1.57	+27 21.7	2.361	3.237	9.6	19.2
3 12	8 56.24	+27 37.0	2.446	3.237	12.3	19.4

151925 2004 FD_6 2 7.2 250°.59 1°.1/ 6.6 18

1 2	9 48.80	+15 24.4	1.517	2.331	16.9	20.8
1 12	9 44.42	+15 57.1	1.428	2.320	13.0	20.6
1 22	9 36.97	+16 43.1	1.360	2.310	8.4	20.3
2 1	9 27.08	+17 37.0	1.318	2.298	3.3	19.9
2 11	9 15.99	+18 31.0	1.303	2.287	2.7	19.9
2 21	9 5.17	+19 17.5	1.316	2.275	8.0	20.1
3 2	8 56.13	+19 51.1	1.354	2.263	13.0	20.4
3 12	8 49.96	+20 9.3	1.414	2.251	17.3	20.6

35734 Dilithium 2 7.2 254°.76 1°.0/ 7.9 18

1 2	9 45.95	+ 9 42.2	1.734	2.529	15.9	20.1
1 12	9 41.87	+10 13.1	1.635	2.515	12.5	19.8
1 22	9 35.15	+11 1.4	1.558	2.500	8.3	19.5
2 1	9 26.34	+12 4.0	1.507	2.485	3.7	19.2
2 11	9 16.44	+13 14.7	1.484	2.469	1.9	19.0
2 21	9 6.67	+14 26.2	1.490	2.453	6.7	19.3
3 2	8 58.31	+15 31.3	1.523	2.437	11.4	19.5
3 12	8 52.35	+16 25.1	1.578	2.420	15.5	19.8

468351 2016 EO_{129} 2 7.2 150°.34 2°.5/ 9.2 18

1 2	9 44.10	+ 6 8.2	2.042	2.817	14.5	21.1
1 12	9 39.85	+ 6 19.0	1.956	2.819	11.5	20.9
1 22	9 33.48	+ 6 45.4	1.892	2.822	8.0	20.7
2 1	9 25.57	+ 7 25.7	1.854	2.824	4.3	20.5
2 11	9 16.97	+ 8 15.7	1.845	2.826	2.6	20.4
2 21	9 8.66	+ 9 10.6	1.865	2.828	5.6	20.6
3 2	9 1.58	+10 4.8	1.913	2.830	9.3	20.8
3 12	8 56.46	+10 53.7	1.986	2.831	12.6	21.0

206350 2003 QA_{26} 2 7.2 181°.17 0°.3/ 7.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.00	+14 56.6	1.930	2.726	14.5	21.1
1 12	9 44.51	+15 11.8	1.845	2.727	11.1	20.9
1 22	9 36.56	+15 36.1	1.783	2.727	7.2	20.7
2 1	9 26.79	+16 5.6	1.748	2.727	2.8	20.4
2 11	9 16.24	+16 35.4	1.743	2.727	1.8	20.3
2 21	9 6.06	+17 0.9	1.767	2.726	6.3	20.6
3 2	8 57.36	+17 18.6	1.819	2.724	10.4	20.8
3 12	8 50.96	+17 26.9	1.895	2.722	13.9	21.1

193988 2001 RC_{137} 2 7.2 100°.19 0°.6/ 6.8 18

1 2	9 48.60	+13 11.1	1.540	2.348	17.0	20.4
1 12	9 43.82	+14 2.7	1.476	2.365	12.9	20.2
1 22	9 36.26	+15 9.2	1.433	2.381	8.2	19.9
2 1	9 26.68	+16 24.1	1.417	2.397	3.1	19.7
2 11	9 16.34	+17 38.7	1.428	2.412	2.3	19.6
2 21	9 6.59	+18 45.2	1.468	2.427	7.3	20.0
3 2	8 58.68	+19 37.9	1.534	2.442	11.8	20.3
3 12	8 53.45	+20 14.3	1.623	2.457	15.5	20.6

502886 2015 DL_{219} 2 7.2 17°.28 2°.6/ 5.7 18

1 2	9 48.25	+22 42.8	2.005	2.817	13.4	20.5
1 12	9 43.06	+22 51.9	1.928	2.820	10.2	20.3
1 22	9 35.53	+23 2.8	1.875	2.823	6.6	20.1
2 1	9 26.34	+23 10.8	1.850	2.826	3.2	19.9
2 11	9 16.55	+23 11.4	1.853	2.830	3.4	19.9
2 21	9 7.24	+23 1.8	1.885	2.834	6.9	20.2
3 2	8 59.44	+22 41.2	1.945	2.839	10.4	20.4
3 12	8 53.89	+22 10.1	2.027	2.844	13.5	20.6

282329 2002 TP_{315} 2 7.2 83°.73 2°.1/ 5.3 18

1 2	9 43.59	+18 24.5	2.217	3.025	12.4	20.6
1 12	9 39.32	+19 29.6	2.148	3.039	9.4	20.4
1 22	9 33.05	+20 41.9	2.104	3.052	5.9	20.2
2 1	9 25.37	+21 55.5	2.088	3.066	2.7	20.0
2 11	9 17.13	+23 4.0	2.102	3.079	3.1	20.1
2 21	9 9.24	+24 2.1	2.146	3.093	6.4	20.3
3 2	9 2.57	+24 46.3	2.218	3.106	9.6	20.5
3 12	8 57.79	+25 15.6	2.313	3.119	12.4	20.7

226610 2004 DO_{22} 2 7.2 101°.61 0°.9/ 7.8 18

1 2	9 48.93	+10 45.9	1.400	2.207	18.4	20.2
1 12	9 44.36	+11 9.7	1.332	2.218	14.2	20.0
1 22	9 36.76	+11 51.2	1.284	2.228	9.3	19.7
2 1	9 26.92	+12 45.7	1.260	2.239	3.9	19.4
2 11	9 16.18	+13 45.7	1.264	2.249	2.0	19.3
2 21	9 6.04	+14 43.3	1.294	2.258	7.4	19.7
3 2	8 57.87	+15 32.1	1.350	2.268	12.3	20.0
3 12	8 52.61	+16 8.1	1.428	2.277	16.5	20.2

289173 2004 VR_{63} 2 7.2 73°.52 1°.5/ 6.3 18

1 2	9 49.07	+15 55.8	1.441	2.259	17.4	21.0
1 12	9 44.29	+16 41.3	1.384	2.279	13.2	20.8
1 22	9 36.57	+17 38.6	1.349	2.299	8.3	20.5
2 1	9 26.79	+18 40.7	1.339	2.319	3.2	20.3
2 11	9 16.30	+19 38.9	1.356	2.338	2.9	20.3
2 21	9 6.55	+20 26.3	1.401	2.358	7.8	20.6
3 2	8 58.81	+20 58.5	1.471	2.378	12.3	21.0
3 12	8 53.91	+21 14.6	1.562	2.397	16.0	21.2

166561 2002 RY_{103} 2 7.2 44°.82 6°.7/ 2.8 18

1 2	9 50.24	+32 54.8	1.891	2.708	13.9	19.0
1 12	9 44.81	+33 46.5	1.837	2.722	11.0	18.9
1 22	9 36.71	+34 32.5	1.805	2.736	8.3	18.7
2 1	9 26.80	+35 4.7	1.801	2.751	6.7	18.7
2 11	9 16.31	+35 17.1	1.823	2.766	7.5	18.8
2 21	9 6.56	+35 7.1	1.872	2.781	9.8	18.9
3 2	8 58.68	+34 35.8	1.946	2.796	12.6	19.1
3 12	8 53.41	+33 46.8	2.042	2.812	15.1	19.3

389149 2009 BA_{31} 2 7.2 72°.43 1°.4/ 5.9 18

1 2	9 42.59	+16 27.2	2.225	3.030	12.5	20.6
1 12	9 38.58	+17 22.9	2.148	3.037	9.4	20.4
1 22	9 32.60	+18 27.2	2.096	3.044	6.0	20.2
2 1	9 25.21	+19 35.1	2.072	3.052	2.4	20.0
2 11	9 17.23	+20 40.5	2.078	3.059	2.5	20.0
2 21	9 9.56	+21 38.3	2.114	3.066	6.0	20.2
3 2	9 3.05	+22 24.4	2.177	3.074	9.4	20.4
3 12	8 58.37	+22 56.9	2.265	3.081	12.3	20.7

310896 2003 RY_{9} 2 7.2 220°.17 2°.6/ 8.9 17

1 2	9 49.24	+ 7 7.1	2.135	2.900	14.3	21.6
1 12	9 43.81	+ 6 59.3	2.031	2.890	11.4	21.3
1 22	9 36.10	+ 7 4.5	1.951	2.879	7.9	21.1
2 1	9 26.65	+ 7 21.7	1.897	2.867	4.3	20.9
2 11	9 16.33	+ 7 48.1	1.873	2.854	2.8	20.7
2 21	9 6.17	+ 8 19.9	1.879	2.840	5.8	20.9
3 2	8 57.20	+ 8 52.9	1.914	2.825	9.6	21.1
3 12	8 50.26	+ 9 23.1	1.975	2.810	13.1	21.3

161446 2003 YM_{46} 2 7.2 163°.72 1°.4/ 6.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.90	+19 13.7	2.439	3.238	11.7	20.3
1 12	9 41.65	+19 31.7	2.355	3.240	8.9	20.1
1 22	9 34.47	+19 54.0	2.297	3.243	5.7	19.9
2 1	9 25.92	+20 16.8	2.266	3.245	2.4	19.7
2 11	9 16.82	+20 36.0	2.266	3.247	2.3	19.7
2 21	9 8.05	+20 48.6	2.297	3.249	5.6	19.9
3 2	9 0.45	+20 52.5	2.356	3.250	8.8	20.1
3 12	8 54.66	+20 47.2	2.440	3.252	11.7	20.3

409394 2005 EE_{103} 2 7.2 296°.68 1°.5/ 6.3 18

1 2	9 46.76	+17 5.6	1.551	2.371	16.3	21.2
1 12	9 42.82	+17 32.3	1.460	2.356	12.5	20.9
1 22	9 35.92	+18 9.9	1.391	2.342	8.1	20.6
2 1	9 26.69	+18 52.8	1.347	2.328	3.2	20.3
2 11	9 16.30	+19 34.1	1.331	2.313	2.9	20.2
2 21	9 6.17	+20 6.9	1.341	2.299	8.0	20.5
3 2	8 57.74	+20 26.8	1.376	2.286	12.8	20.7
3 12	8 52.08	+20 32.0	1.433	2.272	17.0	21.0

47681 2000 CZ_{77} 2 7.2 166°.13 0°.5/ 7.7 18

1 2	9 44.05	+12 0.3	2.335	3.122	12.5	19.9
1 12	9 39.57	+12 20.2	2.247	3.124	9.6	19.7
1 22	9 33.19	+12 50.1	2.184	3.126	6.3	19.5
2 1	9 25.45	+13 27.1	2.149	3.127	2.6	19.2
2 11	9 17.11	+14 7.2	2.144	3.128	1.4	19.1
2 21	9 9.04	+14 46.0	2.168	3.129	5.1	19.4
3 2	9 2.06	+15 20.1	2.221	3.130	8.6	19.6
3 12	8 56.85	+15 46.8	2.299	3.131	11.6	19.8

301182 2008 YF_{138} 2 7.2 42°.33 0°.5/ 7.5 18

1 2	9 46.33	+11 58.5	1.258	2.081	19.2	20.9
1 12	9 42.58	+12 18.2	1.198	2.094	14.8	20.6
1 22	9 35.68	+12 55.0	1.158	2.107	9.6	20.4
2 1	9 26.51	+13 44.0	1.142	2.121	3.9	20.1
2 11	9 16.50	+14 37.2	1.151	2.136	2.1	20.0
2 21	9 7.21	+15 26.7	1.186	2.151	7.7	20.4
3 2	9 0.03	+16 6.3	1.245	2.167	12.7	20.7
3 12	8 55.87	+16 32.5	1.325	2.183	17.0	21.0

206171 2002 TQ_{258} 2 7.2 77°.60 2°.7/ 4.9 18

1 2	9 47.72	+21 47.3	2.281	3.085	12.2	20.9
1 12	9 42.22	+22 36.4	2.229	3.117	9.2	20.7
1 22	9 34.75	+23 28.1	2.202	3.148	5.9	20.6
2 1	9 26.00	+24 17.1	2.204	3.179	3.1	20.4
2 11	9 16.86	+24 58.1	2.236	3.209	3.5	20.5
2 21	9 8.25	+25 27.4	2.298	3.239	6.4	20.7
3 2	9 1.01	+25 43.5	2.388	3.269	9.3	21.0
3 12	8 55.73	+25 46.5	2.502	3.298	11.9	21.2

402084 2003 UC_{225} 2 7.2 84°.97 1°.0/ 7.9 18

1 2	9 49.19	+11 14.1	1.637	2.434	16.6	21.7
1 12	9 44.02	+11 25.6	1.573	2.454	12.8	21.5
1 22	9 36.25	+11 50.9	1.531	2.473	8.4	21.3
2 1	9 26.66	+12 26.0	1.514	2.492	3.6	21.0
2 11	9 16.44	+13 5.6	1.526	2.511	1.9	20.9
2 21	9 6.84	+13 43.8	1.566	2.530	6.4	21.3
3 2	8 58.98	+14 16.2	1.633	2.548	10.7	21.6
3 12	8 53.66	+14 39.6	1.724	2.566	14.4	21.8

170228 2003 QG_{19} 2 7.2 183°.07 0°.6/ 6.8 18

1 2	9 48.17	+14 17.5	2.051	2.844	13.8	21.5
1 12	9 43.03	+14 56.4	1.964	2.845	10.6	21.3
1 22	9 35.60	+15 46.0	1.900	2.845	6.8	21.1
2 1	9 26.45	+16 41.9	1.865	2.845	2.6	20.8
2 11	9 16.53	+17 38.0	1.860	2.844	1.9	20.7
2 21	9 6.91	+18 28.9	1.885	2.842	6.1	21.0
3 2	8 58.62	+19 10.1	1.938	2.839	10.1	21.3
3 12	8 52.45	+19 39.3	2.015	2.836	13.4	21.5

329231 2012 EZ_{5} 2 7.2 226°.04 3°.3/ 4.8 16

1 2	9 49.04	+23 23.6	2.148	2.956	12.8	22.4
1 12	9 43.75	+24 4.8	2.058	2.947	9.8	22.2
1 22	9 36.09	+24 49.3	1.993	2.938	6.5	21.9
2 1	9 26.65	+25 31.2	1.956	2.929	3.7	21.7
2 11	9 16.41	+26 4.4	1.948	2.919	4.2	21.8
2 21	9 6.46	+26 24.6	1.969	2.909	7.4	21.9
3 2	8 57.86	+26 29.5	2.018	2.898	10.8	22.1
3 12	8 51.45	+26 19.6	2.090	2.887	13.9	22.3

280666 2005 EG_{91} 2 7.2 212°.71 4°.8/11.8 17

1 2	9 41.88	− 2 44.2	2.584	3.305	13.1	21.1
1 12	9 37.80	− 2 48.0	2.484	3.301	11.0	21.0
1 22	9 32.03	− 2 34.6	2.405	3.296	8.5	20.8
2 1	9 25.01	− 2 3.8	2.352	3.291	6.1	20.6
2 11	9 17.41	− 1 17.4	2.327	3.286	4.8	20.5
2 21	9 9.97	− 0 18.7	2.332	3.280	5.8	20.6
3 2	9 3.42	+ 0 47.3	2.365	3.275	8.1	20.7
3 12	8 58.37	+ 1 55.5	2.425	3.268	10.7	20.9

230538 2002 YG_{16} 2 7.2 151°.91 2°.9/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.79	+19 54.1	1.798	2.605	14.9	21.1
1 12	9 46.07	+20 52.3	1.726	2.615	11.3	20.9
1 22	9 37.66	+21 57.9	1.677	2.624	7.3	20.6
2 1	9 27.27	+23 3.5	1.656	2.633	3.5	20.4
2 11	9 16.08	+24 1.1	1.664	2.640	4.0	20.5
2 21	9 5.38	+24 44.6	1.702	2.647	7.8	20.7
3 2	8 56.39	+25 11.0	1.766	2.653	11.7	21.0
3 12	8 49.97	+25 20.3	1.853	2.658	15.1	21.2

365660 2010 VS_{36} 2 7.2 112°.89 3°.2/ 4.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.38	+21 9.9	2.051	2.859	13.3	21.4
1 12	9 43.10	+22 20.8	1.989	2.879	10.0	21.2
1 22	9 35.55	+23 36.9	1.951	2.897	6.5	21.1
2 1	9 26.39	+24 51.0	1.941	2.916	3.5	20.9
2 11	9 16.63	+25 56.0	1.962	2.933	4.1	21.0
2 21	9 7.35	+26 46.6	2.012	2.950	7.3	21.2
3 2	8 59.53	+27 20.0	2.089	2.967	10.6	21.4
3 12	8 53.91	+27 36.3	2.189	2.983	13.4	21.7

362088 2009 BP_{145} 2 7.2 75°.92 0°.8/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.26	+14 32.5	1.481	2.294	17.3	21.5
1 12	9 44.33	+15 12.0	1.424	2.316	13.1	21.3
1 22	9 36.57	+16 4.2	1.389	2.337	8.3	21.0
2 1	9 26.82	+17 2.8	1.379	2.359	3.2	20.8
2 11	9 16.40	+17 59.7	1.396	2.380	2.4	20.8
2 21	9 6.70	+18 48.1	1.442	2.401	7.3	21.1
3 2	8 58.96	+19 23.4	1.513	2.422	11.8	21.4
3 12	8 53.97	+19 44.0	1.606	2.443	15.6	21.7

331936 2004 TY_{37} 2 7.2 237°.90 5°.4/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.37	− 3 16.8	2.352	3.073	14.3	21.7
1 12	9 39.17	− 3 25.8	2.244	3.061	12.0	21.5
1 22	9 33.05	− 3 15.9	2.158	3.049	9.4	21.3
2 1	9 25.46	− 2 46.2	2.098	3.036	6.8	21.1
2 11	9 17.14	− 1 58.2	2.065	3.023	5.5	21.0
2 21	9 8.92	− 0 55.5	2.061	3.009	6.5	21.1
3 2	9 1.66	+ 0 16.6	2.085	2.995	9.1	21.2
3 12	8 56.10	+ 1 31.7	2.136	2.980	11.9	21.3

205354 2000 WT_{135} 2 7.2 78°.28 5°.0/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.60	+23 12.5	1.517	2.339	16.4	19.7
1 12	9 46.16	+24 46.3	1.473	2.369	12.4	19.6
1 22	9 37.73	+26 24.1	1.452	2.399	8.2	19.4
2 1	9 27.26	+27 54.8	1.457	2.428	5.2	19.3
2 11	9 16.16	+29 8.4	1.491	2.456	6.1	19.4
2 21	9 5.90	+29 58.5	1.552	2.484	9.6	19.7
3 2	8 57.76	+30 23.7	1.638	2.512	13.2	19.9
3 12	8 52.55	+30 26.3	1.745	2.539	16.3	20.2

278524 2008 DU_{48} 2 7.2 57°.61 7°.2/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.96	+28 26.9	1.607	2.438	15.3	19.7
1 12	9 42.97	+30 22.4	1.547	2.444	11.9	19.5
1 22	9 35.96	+32 19.7	1.512	2.451	8.7	19.3
2 1	9 26.69	+34 6.5	1.503	2.458	7.2	19.3
2 11	9 16.45	+35 31.5	1.521	2.465	8.5	19.4
2 21	9 6.71	+36 27.8	1.565	2.472	11.4	19.5
3 2	8 58.90	+36 53.7	1.632	2.480	14.7	19.8
3 12	8 53.96	+36 52.2	1.718	2.487	17.5	20.0

108680 2001 OS_6 2 7.2 215°.43 2°.4/ 8.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.01	+ 7 54.5	2.169	2.938	13.9	20.5
1 12	9 42.80	+ 7 43.0	2.070	2.932	11.0	20.3
1 22	9 35.42	+ 7 43.4	1.995	2.925	7.6	20.1
2 1	9 26.40	+ 7 54.6	1.947	2.917	4.1	19.8
2 11	9 16.62	+ 8 14.0	1.928	2.909	2.6	19.7
2 21	9 7.05	+ 8 38.1	1.939	2.900	5.6	19.9
3 2	8 58.66	+ 9 3.2	1.979	2.891	9.3	20.1
3 12	8 52.25	+ 9 25.8	2.044	2.882	12.6	20.3

30268 Jessezhang 2 7.3 214°.99 0°.3/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.14	+12 15.5	2.145	2.934	13.4	19.9
1 12	9 41.44	+12 39.9	2.050	2.928	10.4	19.7
1 22	9 34.57	+13 15.6	1.979	2.922	6.8	19.4
2 1	9 26.08	+13 59.3	1.936	2.915	2.8	19.1
2 11	9 16.83	+14 46.1	1.923	2.907	1.5	19.0
2 21	9 7.80	+15 31.3	1.939	2.900	5.7	19.3
3 2	8 59.97	+16 10.4	1.984	2.892	9.5	19.5
3 12	8 54.10	+16 40.6	2.053	2.883	12.9	19.7

219037 1995 OU_8 2 7.3 70°.75 2°.9/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.02	+ 4 32.9	1.892	2.667	15.5	20.7
1 12	9 39.21	+ 4 53.4	1.808	2.671	12.3	20.5
1 22	9 33.19	+ 5 32.8	1.747	2.675	8.6	20.2
2 1	9 25.54	+ 6 28.9	1.711	2.679	4.8	20.0
2 11	9 17.17	+ 7 37.0	1.703	2.683	3.0	19.9
2 21	9 9.11	+ 8 50.9	1.723	2.687	5.9	20.1
3 2	9 2.35	+10 3.7	1.772	2.691	9.7	20.3
3 12	8 57.64	+11 9.7	1.845	2.695	13.2	20.6

235568 2004 HN_{33} 2 7.3 237°.87 7°.1/15.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 41.02	−14 7.3	3.133	3.766	12.6	21.4
1 12	9 36.97	−14 24.6	3.018	3.752	11.2	21.3
1 22	9 31.43	−14 23.2	2.923	3.737	9.6	21.1
2 1	9 24.80	−14 1.2	2.852	3.722	8.1	21.0
2 11	9 17.62	−13 18.5	2.806	3.707	7.2	20.9
2 21	9 10.52	−12 17.2	2.789	3.691	7.2	20.9
3 2	9 4.12	−11 1.0	2.799	3.674	8.3	20.9
3 12	8 58.97	− 9 35.3	2.836	3.657	10.0	21.0

156549 2002 EY_3 2 7.3 199°.17 0°.7/ 7.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.55	+11 6.7	2.112	2.902	13.6	20.8
1 12	9 40.20	+11 29.5	2.024	2.901	10.5	20.6
1 22	9 33.75	+12 4.3	1.958	2.899	6.9	20.4
2 1	9 25.75	+12 48.1	1.920	2.898	3.0	20.1
2 11	9 17.06	+13 36.3	1.911	2.896	1.5	20.0
2 21	9 8.63	+14 23.8	1.932	2.894	5.5	20.3
3 2	9 1.39	+15 6.1	1.981	2.892	9.3	20.5
3 12	8 56.10	+15 40.1	2.054	2.890	12.7	20.7

459286 2012 GY_4 2 7.3 274°.01 4°.5/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.80	+26 15.1	2.063	2.872	13.2	21.0
1 12	9 45.49	+27 0.0	1.957	2.845	10.3	20.8
1 22	9 37.48	+27 47.2	1.875	2.817	7.1	20.5
2 1	9 27.33	+28 29.6	1.821	2.789	4.7	20.3
2 11	9 16.06	+29 0.2	1.796	2.760	5.4	20.3
2 21	9 4.90	+29 13.8	1.799	2.730	8.6	20.4
3 2	8 55.14	+29 8.3	1.830	2.701	12.2	20.6
3 12	8 47.79	+28 44.7	1.882	2.670	15.5	20.8

185888 2000 QD_{176} 2 7.3 105°.16 4°.1/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.23	− 0 42.6	2.155	2.894	14.9	20.7
1 12	9 39.74	− 0 17.0	2.078	2.913	12.1	20.5
1 22	9 33.32	+ 0 29.0	2.023	2.931	8.9	20.4
2 1	9 25.54	+ 1 33.7	1.995	2.949	5.8	20.2
2 11	9 17.22	+ 2 53.0	1.995	2.967	4.1	20.1
2 21	9 9.25	+ 4 20.7	2.025	2.984	5.7	20.3
3 2	9 2.47	+ 5 50.1	2.085	3.000	8.7	20.5
3 12	8 57.53	+ 7 14.8	2.170	3.016	11.7	20.7

253934 2004 CH_{82} 2 7.3 37°.29 0°.5/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.47	+12 36.9	1.599	2.406	16.4	20.4
1 12	9 42.24	+12 49.1	1.522	2.410	12.7	20.2
1 22	9 35.32	+13 14.5	1.468	2.413	8.3	19.9
2 1	9 26.41	+13 49.3	1.438	2.417	3.4	19.6
2 11	9 16.68	+14 27.8	1.436	2.421	1.8	19.5
2 21	9 7.39	+15 4.2	1.462	2.426	6.8	19.9
3 2	8 59.79	+15 33.7	1.514	2.430	11.3	20.1
3 12	8 54.73	+15 53.3	1.588	2.435	15.2	20.4

414220 2008 EL_{152} 2 7.3 279°.54 4°.2/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.61	+23 5.9	1.773	2.595	14.5	21.1
1 12	9 42.47	+24 9.8	1.686	2.583	11.1	20.9
1 22	9 35.59	+25 20.0	1.622	2.570	7.4	20.6
2 1	9 26.58	+26 28.8	1.586	2.558	4.5	20.4
2 11	9 16.54	+27 27.4	1.577	2.546	5.3	20.5
2 21	9 6.77	+28 9.3	1.595	2.534	8.9	20.6
3 2	8 58.56	+28 30.9	1.639	2.521	12.8	20.8
3 12	8 52.90	+28 32.4	1.705	2.509	16.2	21.0

202537 2006 DO_{60} 2 7.3 212°.11 0°.7/ 7.8 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.17	+11 28.0	2.154	2.944	13.3	20.8
1 12	9 39.87	+11 46.7	2.066	2.943	10.3	20.6
1 22	9 33.52	+12 16.8	2.001	2.942	6.8	20.4
2 1	9 25.66	+12 55.2	1.963	2.940	2.9	20.1
2 11	9 17.13	+13 37.6	1.954	2.939	1.5	20.0
2 21	9 8.87	+14 19.4	1.975	2.937	5.4	20.3
3 2	9 1.78	+14 56.4	2.024	2.936	9.2	20.5
3 12	8 56.59	+15 25.6	2.098	2.934	12.4	20.7

240336 2003 PD_{11} 2 7.3 180°.67 6°.3/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.81	− 8 2.8	2.305	2.994	15.3	21.1
1 12	9 41.00	− 7 52.2	2.206	2.996	13.1	21.0
1 22	9 34.20	− 7 17.9	2.128	2.997	10.5	20.8
2 1	9 25.93	− 6 19.0	2.075	2.997	8.0	20.6
2 11	9 16.97	− 4 57.6	2.050	2.997	6.4	20.5
2 21	9 8.20	− 3 18.7	2.054	2.995	7.0	20.6
3 2	9 0.51	− 1 29.7	2.088	2.993	9.3	20.7
3 12	8 54.62	+ 0 21.4	2.149	2.989	12.0	20.9

180569 2004 ED_{84} 2 7.3 272°.29 4°.5/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.12	+ 0 31.5	1.922	2.679	15.9	20.8
1 12	9 39.47	+ 0 39.6	1.816	2.662	13.1	20.6
1 22	9 33.53	+ 1 9.4	1.730	2.644	9.8	20.3
2 1	9 25.76	+ 2 1.1	1.669	2.627	6.3	20.1
2 11	9 17.03	+ 3 11.6	1.636	2.609	4.5	19.9
2 21	9 8.38	+ 4 35.2	1.631	2.591	6.6	20.0
3 2	9 0.88	+ 6 4.4	1.653	2.573	10.3	20.2
3 12	8 55.45	+ 7 31.4	1.701	2.555	14.0	20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
495204 2013 CA_{67}			2 7.3 317°.13		1°.6/ 8.0 18	
	h m	° ′			°	m
1 2	9 48.44	+11 57.4	1.405	2.216	18.1	21.2
1 12	9 44.23	+11 40.7	1.321	2.209	14.2	20.9
1 22	9 36.90	+11 37.2	1.257	2.202	9.5	20.6
2 1	9 27.14	+11 44.9	1.217	2.195	4.3	20.3
2 11	9 16.23	+11 59.3	1.204	2.188	2.3	20.2
2 21	9 5.71	+12 15.4	1.217	2.182	7.5	20.5
3 2	8 57.07	+12 28.7	1.255	2.176	12.7	20.7
3 12	8 51.40	+12 35.6	1.314	2.171	17.1	21.0
167937 2005 EA_{177}			2 7.3 133°.55		6°.0/ 2.1 18	
1 2	9 50.35	+34 35.5	2.478	3.281	11.4	20.3
1 12	9 44.46	+35 28.1	2.413	3.288	9.2	20.1
1 22	9 36.37	+36 15.2	2.373	3.295	7.1	20.0
2 1	9 26.73	+36 50.2	2.361	3.301	6.0	19.9
2 11	9 16.54	+37 8.0	2.378	3.308	6.7	20.0
2 21	9 6.85	+37 6.3	2.422	3.314	8.6	20.1
3 2	8 58.60	+36 45.2	2.492	3.320	10.9	20.3
3 12	8 52.50	+36 7.5	2.585	3.326	13.0	20.4
61995 2000 RG_{34}			2 7.3 115°.52		2°.0/ 8.5 18	
1 2	9 50.09	+ 9 22.7	1.709	2.496	16.4	19.8
1 12	9 44.71	+ 9 19.2	1.636	2.509	12.8	19.6
1 22	9 36.75	+ 9 29.9	1.584	2.521	8.6	19.4
2 1	9 26.94	+ 9 52.4	1.559	2.534	4.2	19.2
2 11	9 16.41	+10 22.3	1.562	2.545	2.4	19.1
2 21	9 6.41	+10 54.7	1.594	2.557	6.4	19.3
3 2	8 58.06	+11 24.9	1.653	2.568	10.6	19.6
3 12	8 52.19	+11 49.1	1.735	2.579	14.3	19.9
155137 2005 TZ_{166}			2 7.3 105°.13		0°.7/ 7.8 18	
1 2	9 46.32	+11 27.2	1.955	2.747	14.5	21.1
1 12	9 41.59	+11 45.8	1.880	2.758	11.1	20.9
1 22	9 34.64	+12 16.4	1.827	2.769	7.3	20.7
2 1	9 26.10	+12 55.6	1.801	2.779	3.1	20.4
2 11	9 16.93	+13 38.5	1.805	2.789	1.6	20.3
2 21	9 8.16	+14 20.1	1.837	2.800	5.7	20.6
3 2	9 0.78	+14 56.2	1.898	2.809	9.6	20.9
3 12	8 55.51	+15 23.7	1.982	2.819	13.0	21.1
307782 2003 WT_{83}			2 7.3 32°.54		2°.3/ 5.8 18	
1 2	9 43.54	+15 44.2	1.224	2.061	18.7	19.4
1 12	9 40.63	+16 54.9	1.168	2.074	14.1	19.1
1 22	9 34.55	+18 21.3	1.133	2.088	8.9	18.9
2 1	9 26.16	+19 54.1	1.123	2.103	3.6	18.6
2 11	9 16.90	+21 21.5	1.137	2.119	3.8	18.7
2 21	9 8.34	+22 33.5	1.178	2.135	8.9	19.0
3 2	9 1.91	+23 24.2	1.242	2.152	13.7	19.3
3 12	8 58.50	+23 52.2	1.326	2.170	17.7	19.6
455236 2001 SG_{149}			2 7.3 109°.23		1°.8/ 6.2 17	
1 2	9 55.07	+18 36.0	1.796	2.595	15.3	21.9
1 12	9 48.27	+19 6.6	1.737	2.621	11.6	21.7
1 22	9 38.87	+19 43.4	1.701	2.647	7.3	21.5
2 1	9 27.71	+20 20.4	1.693	2.672	3.0	21.3
2 11	9 16.02	+20 51.5	1.715	2.696	2.9	21.3
2 21	9 5.07	+21 12.3	1.767	2.719	7.0	21.6
3 2	8 55.97	+21 20.9	1.846	2.741	10.9	21.9
3 12	8 49.47	+21 17.2	1.949	2.762	14.1	22.2
339575 2005 LF_{25}			2 7.3 171°.86		3°.7/10.7 18	
1 2	9 42.34	+ 1 7.8	2.691	3.429	12.3	21.4
1 12	9 38.04	+ 1 3.6	2.597	3.431	10.0	21.2
1 22	9 32.15	+ 1 13.6	2.526	3.433	7.4	21.0
2 1	9 25.09	+ 1 37.3	2.481	3.434	4.9	20.9
2 11	9 17.53	+ 2 12.7	2.466	3.435	3.7	20.8
2 21	9 10.16	+ 2 56.5	2.481	3.436	5.0	20.9
3 2	9 3.67	+ 3 44.9	2.525	3.436	7.6	21.0
3 12	8 58.64	+ 4 33.6	2.595	3.437	10.1	21.2
214891 2007 RV_{300}			2 7.3 72°.36		2°.7/ 9.1 18	
1 2	9 45.55	+ 6 0.7	1.536	2.327	17.8	20.8
1 12	9 41.55	+ 6 18.1	1.464	2.338	14.0	20.6
1 22	9 34.88	+ 6 56.1	1.413	2.348	9.7	20.3
2 1	9 26.26	+ 7 52.0	1.387	2.359	5.1	20.1
2 11	9 16.83	+ 8 59.8	1.388	2.370	2.9	20.0
2 21	9 7.90	+10 11.8	1.416	2.381	6.7	20.2
3 2	9 0.64	+11 20.4	1.470	2.392	11.1	20.5
3 12	8 55.93	+12 19.6	1.548	2.403	15.1	20.8
64580 2001 WN_{50}			2 7.3 295°.83		0°.8/ 6.6 17	
1 2	9 43.34	+15 58.9	2.270	3.071	12.4	20.0
1 12	9 39.22	+16 24.6	2.176	3.063	9.5	19.7
1 22	9 33.11	+16 58.3	2.107	3.054	6.1	19.5
2 1	9 25.52	+17 36.2	2.066	3.046	2.3	19.3
2 11	9 17.26	+18 13.9	2.054	3.037	1.9	19.2
2 21	9 9.22	+18 46.9	2.072	3.029	5.6	19.4
3 2	9 2.28	+19 12.0	2.117	3.021	9.2	19.6
3 12	8 57.17	+19 27.2	2.187	3.013	12.3	19.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6262 Javid			2 7.3 115°.28		0°.4/ 6.9 18 R	
	h m	° ′			°	m
1 2	9 44.47	+14 14.9	2.201	2.997	12.9	17.6
1 12	9 40.02	+14 47.6	2.121	3.004	9.8	17.4
1 22	9 33.56	+15 29.7	2.066	3.011	6.3	17.2
2 1	9 25.67	+16 17.3	2.038	3.018	2.4	16.9
2 11	9 17.19	+17 5.2	2.040	3.024	1.7	16.9
2 21	9 9.04	+17 48.9	2.072	3.031	5.5	17.1
3 2	9 2.08	+18 24.6	2.132	3.037	9.1	17.4
3 12	8 57.00	+18 50.1	2.217	3.043	12.2	17.6
462961 2011 DP_{30}			2 7.3 332°.17		9°.7/31.2 18	
1 2	9 48.49	+36 34.3	1.615	2.441	15.4	20.4
1 12	9 44.53	+38 5.1	1.546	2.430	12.7	20.2
1 22	9 37.20	+39 29.6	1.500	2.420	10.5	20.1
2 1	9 27.28	+40 36.0	1.478	2.410	9.7	20.0
2 11	9 16.21	+41 14.1	1.481	2.401	10.8	20.0
2 21	9 5.68	+41 18.8	1.507	2.392	13.3	20.2
3 2	8 57.30	+40 50.8	1.556	2.385	16.2	20.3
3 12	8 52.14	+39 55.3	1.623	2.377	18.9	20.5
224512 2005 WT_{47}			2 7.3 330°.80		0°.4/ 7.0 18	
1 2	9 45.72	+14 37.9	1.881	2.685	14.5	21.5
1 12	9 41.36	+15 0.5	1.797	2.684	11.1	21.3
1 22	9 34.63	+15 33.5	1.737	2.684	7.1	21.1
2 1	9 26.15	+16 12.7	1.703	2.683	2.8	20.8
2 11	9 16.91	+16 52.6	1.699	2.683	1.9	20.7
2 21	9 8.01	+17 28.2	1.722	2.682	6.3	21.0
3 2	9 0.51	+17 55.5	1.773	2.682	10.4	21.2
3 12	8 55.24	+18 12.0	1.847	2.682	13.9	21.5
34632 2000 UY_{109}			2 7.3 113°.42		2°.8/ 4.8 18	
1 2	9 46.59	+20 40.6	2.156	2.964	12.7	18.9
1 12	9 41.70	+21 45.4	2.088	2.979	9.6	18.7
1 22	9 34.66	+22 55.6	2.046	2.993	6.2	18.5
2 1	9 26.11	+24 4.8	2.032	3.007	3.2	18.4
2 11	9 16.96	+25 6.4	2.048	3.021	3.8	18.4
2 21	9 8.22	+25 55.4	2.094	3.035	6.9	18.6
3 2	9 0.82	+26 28.9	2.166	3.048	10.1	18.9
3 12	8 55.45	+26 46.6	2.263	3.060	12.9	19.1
255572 2006 KA_{107}			2 7.3 215°.95		2°.5/ 5.4 17	
1 2	9 50.16	+20 29.9	2.147	2.948	13.0	22.6
1 12	9 44.64	+21 14.5	2.053	2.939	10.0	22.3
1 22	9 36.73	+22 5.2	1.983	2.929	6.5	22.1
2 1	9 27.00	+22 56.1	1.942	2.918	3.1	21.9
2 11	9 16.39	+23 41.1	1.931	2.907	3.5	21.9
2 21	9 6.01	+24 15.0	1.949	2.894	7.0	22.1
3 2	8 56.95	+24 34.9	1.996	2.881	10.7	22.3
3 12	8 50.06	+24 40.3	2.066	2.867	13.9	22.5
258476 2002 AN_{13}			2 7.3 354°.29		0°.9/ 7.6 18 R	
1 2	9 44.52	+14 38.2	1.277	2.108	18.4	19.6
1 12	9 41.44	+14 9.9	1.200	2.100	14.4	19.3
1 22	9 35.17	+13 51.7	1.143	2.094	9.5	19.0
2 1	9 26.48	+13 41.3	1.109	2.089	4.0	18.7
2 11	9 16.72	+13 34.8	1.100	2.086	2.2	18.6
2 21	9 7.46	+13 28.3	1.117	2.084	7.7	18.9
3 2	9 0.22	+13 18.3	1.157	2.084	13.0	19.2
3 12	8 56.01	+13 2.6	1.217	2.085	17.5	19.4
60690 2000 GD_{38}			2 7.3 263°.91		4°.0/ 9.8 18	
1 2	9 45.51	+ 3 48.4	1.568	2.349	17.9	19.6
1 12	9 41.78	+ 3 50.6	1.472	2.337	14.5	19.3
1 22	9 35.27	+ 4 15.0	1.397	2.325	10.4	19.0
2 1	9 26.53	+ 5 1.2	1.346	2.313	6.2	18.7
2 11	9 16.64	+ 6 5.2	1.321	2.301	4.0	18.6
2 21	9 6.92	+ 7 20.0	1.324	2.288	7.3	18.7
3 2	8 58.71	+ 8 37.3	1.353	2.275	11.8	19.0
3 12	8 53.08	+ 9 49.2	1.404	2.262	16.1	19.2
67599 2000 SA_{145}			2 7.3 189°.46		1°.7/ 8.4 18	
1 2	9 48.26	+ 8 52.3	1.943	2.723	15.0	20.3
1 12	9 43.23	+ 9 5.1	1.853	2.723	11.7	20.0
1 22	9 35.82	+ 9 32.2	1.786	2.721	7.9	19.8
2 1	9 26.64	+10 11.1	1.745	2.719	3.8	19.5
2 11	9 16.63	+10 57.4	1.733	2.717	2.1	19.4
2 21	9 6.91	+11 45.8	1.751	2.714	5.9	19.7
3 2	8 58.54	+12 31.0	1.797	2.710	10.0	19.9
3 12	8 52.36	+13 9.2	1.867	2.705	13.6	20.1
2694 Pino Torinese			2 7.3 274°.60		1°.1/ 7.9 18	
1 2	9 47.13	+11 10.6	1.544	2.349	17.1	17.1
1 12	9 43.08	+11 20.0	1.453	2.337	13.4	16.8
1 22	9 36.12	+11 44.9	1.382	2.326	8.9	16.5
2 1	9 26.87	+12 22.4	1.336	2.314	3.9	16.2
2 11	9 16.46	+13 6.8	1.317	2.302	2.0	16.0
2 21	9 6.30	+13 51.6	1.326	2.290	7.2	16.3
3 2	8 57.78	+14 30.9	1.360	2.279	12.2	16.6
3 12	8 51.97	+15 0.4	1.417	2.267	16.5	16.8

318026 2004 ES_{13} 2 7.3 298°.35 0°.1/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 43.14	+11 16.7	1.652	2.460	16.0	20.5
1 12	9 39.91	+11 59.2	1.555	2.443	12.4	20.2
1 22	9 34.03	+12 59.7	1.480	2.426	8.2	19.9
2 1	9 26.04	+14 13.9	1.430	2.409	3.3	19.6
2 11	9 16.95	+15 34.6	1.408	2.393	1.9	19.5
2 21	9 7.99	+16 53.5	1.413	2.376	7.0	19.8
3 2	9 0.44	+18 3.0	1.445	2.360	11.8	20.0
3 12	8 55.35	+18 58.0	1.499	2.344	16.0	20.2

234909 2002 TZ_{265} 2 7.3 89°.71 7°.1/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.32	+38 47.4	2.578	3.371	11.3	20.7
1 12	9 45.88	+40 9.4	2.543	3.403	9.3	20.6
1 22	9 37.23	+41 22.4	2.533	3.434	7.7	20.5
2 1	9 27.08	+42 19.2	2.551	3.464	7.1	20.6
2 11	9 16.47	+42 54.8	2.597	3.494	7.8	20.6
2 21	9 6.47	+43 7.3	2.671	3.523	9.4	20.8
3 2	8 58.04	+42 57.8	2.769	3.552	11.1	21.0
3 12	8 51.83	+42 29.8	2.888	3.580	12.7	21.1

109635 2001 QE_{329} 2 7.3 38°.47 2°.4/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.42	+ 9 33.5	1.574	2.372	17.1	19.1
1 12	9 42.91	+ 9 12.9	1.501	2.380	13.4	18.8
1 22	9 35.72	+ 9 6.3	1.450	2.389	9.1	18.6
2 1	9 26.61	+ 9 12.2	1.424	2.398	4.6	18.4
2 11	9 16.72	+ 9 27.0	1.425	2.407	2.7	18.3
2 21	9 7.37	+ 9 46.3	1.453	2.417	6.7	18.5
3 2	8 59.73	+10 5.6	1.507	2.427	11.0	18.8
3 12	8 54.64	+10 20.9	1.584	2.438	14.8	19.1

147640 2004 JD_{12} 2 7.3 312°.76 3°.7/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.50	+ 8 19.7	1.621	2.411	17.0	19.3
1 12	9 43.95	+ 7 33.3	1.526	2.398	13.7	19.0
1 22	9 36.59	+ 6 59.2	1.453	2.386	9.6	18.7
2 1	9 27.04	+ 6 37.6	1.405	2.374	5.5	18.5
2 11	9 16.41	+ 6 27.3	1.384	2.363	3.8	18.3
2 21	9 6.03	+ 6 25.6	1.390	2.352	7.2	18.5
3 2	8 57.24	+ 6 29.0	1.422	2.341	11.7	18.7
3 12	8 51.04	+ 6 33.5	1.477	2.331	15.7	18.9

471501 2011 YH_{3} 2 7.3 95°.98 9°.5/10.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 2.68	+ 1 27.3	1.151	1.919	23.9	20.1
1 12	9 55.32	− 0 38.0	1.091	1.938	19.8	19.9
1 22	9 44.07	− 2 22.5	1.049	1.957	15.2	19.7
2 1	9 29.96	− 3 39.2	1.030	1.976	11.1	19.5
2 11	9 14.79	− 4 24.4	1.036	1.994	9.5	19.5
2 21	9 0.63	− 4 39.4	1.067	2.011	11.6	19.7
3 2	8 49.25	− 4 30.8	1.123	2.028	15.4	19.9
3 12	8 41.72	− 4 8.1	1.199	2.045	19.2	20.2

46867 1998 QN_{91} 2 7.3 146°.13 5°.1/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.46	+29 48.5	2.190	2.992	12.8	19.2
1 12	9 47.73	+30 35.0	2.122	3.003	10.0	19.1
1 22	9 38.55	+31 18.6	2.079	3.013	7.1	18.9
2 1	9 27.66	+31 52.5	2.065	3.023	5.2	18.8
2 11	9 16.16	+32 10.7	2.080	3.032	5.9	18.9
2 21	9 5.24	+32 10.4	2.124	3.041	8.4	19.0
3 2	8 55.97	+31 51.7	2.195	3.048	11.2	19.2
3 12	8 49.09	+31 17.1	2.289	3.056	13.7	19.4

281348 2007 UY_{135} 2 7.3 126°.52 2°.3/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.06	+ 5 54.1	2.427	3.192	12.7	21.8
1 12	9 38.75	+ 6 8.3	2.342	3.200	10.1	21.6
1 22	9 32.68	+ 6 36.0	2.281	3.208	7.0	21.4
2 1	9 25.35	+ 7 15.2	2.247	3.216	3.8	21.2
2 11	9 17.50	+ 8 2.6	2.242	3.223	2.3	21.2
2 21	9 9.92	+ 8 54.0	2.268	3.230	4.8	21.3
3 2	9 3.35	+ 9 44.9	2.322	3.237	8.0	21.5
3 12	8 58.42	+10 31.5	2.403	3.244	10.9	21.7

313177 2001 OB_{3} 2 7.3 209°.26 0°.5/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.24	+12 34.5	2.279	3.062	12.9	21.1
1 12	9 42.93	+12 45.5	2.182	3.055	10.0	20.9
1 22	9 35.52	+13 6.0	2.108	3.048	6.6	20.6
2 1	9 26.53	+13 33.2	2.063	3.041	2.7	20.4
2 11	9 16.80	+14 3.2	2.048	3.032	1.5	20.3
2 21	9 7.30	+14 32.0	2.063	3.024	5.4	20.5
3 2	8 58.94	+14 56.4	2.107	3.014	9.1	20.7
3 12	8 52.50	+15 13.8	2.177	3.004	12.4	20.9

217435 2005 SB_{96} 2 7.3 139°.04 4°.5/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.21	− 1 15.0	2.182	2.918	14.8	21.2
1 12	9 39.83	− 1 4.2	2.096	2.927	12.2	21.1
1 22	9 33.47	− 0 33.4	2.032	2.936	9.2	20.9
2 1	9 25.70	+ 0 16.7	1.994	2.944	6.2	20.7
2 11	9 17.31	+ 1 22.9	1.984	2.952	4.5	20.6
2 21	9 9.21	+ 2 39.9	2.003	2.959	6.0	20.7
3 2	9 2.24	+ 4 1.4	2.051	2.966	8.9	20.9
3 12	8 57.09	+ 5 20.9	2.125	2.972	11.9	21.1

208176 2000 QO_{37} 2 7.3 159°.63 0°.0/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.78	+13 55.1	2.097	2.883	13.8	21.9
1 12	9 44.91	+14 17.0	2.015	2.892	10.6	21.7
1 22	9 36.77	+14 48.3	1.957	2.900	6.8	21.5
2 1	9 27.00	+15 25.2	1.928	2.907	2.7	21.2
2 11	9 16.56	+16 2.8	1.928	2.913	1.6	21.2
2 21	9 6.49	+16 36.5	1.959	2.918	5.8	21.4
3 2	8 57.81	+17 3.0	2.019	2.922	9.6	21.7
3 12	8 51.26	+17 20.1	2.103	2.925	12.9	21.9

85349 1995 UP_{11} 2 7.3 115°.34 2°.9/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.97	+ 4 38.4	2.188	2.950	14.0	19.9
1 12	9 40.34	+ 4 47.7	2.109	2.963	11.2	19.8
1 22	9 33.76	+ 5 12.3	2.052	2.976	7.9	19.6
2 1	9 25.80	+ 5 50.7	2.023	2.989	4.5	19.4
2 11	9 17.28	+ 6 39.1	2.022	3.001	2.9	19.3
2 21	9 9.10	+ 7 32.9	2.052	3.013	5.3	19.5
3 2	9 2.10	+ 8 27.1	2.110	3.025	8.6	19.7
3 12	8 56.94	+ 9 17.2	2.193	3.036	11.7	19.9

266777 2009 SU_{210} 2 7.3 121°.45 0°.0/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.22	+13 12.8	2.030	2.825	13.9	21.6
1 12	9 41.51	+13 35.7	1.951	2.832	10.7	21.4
1 22	9 34.62	+14 9.2	1.896	2.839	6.9	21.2
2 1	9 26.17	+14 49.4	1.867	2.846	2.7	20.9
2 11	9 17.07	+15 31.4	1.869	2.853	1.6	20.8
2 21	9 8.33	+16 10.3	1.899	2.860	5.7	21.1
3 2	9 0.93	+16 42.3	1.958	2.867	9.6	21.4
3 12	8 55.58	+17 5.0	2.040	2.873	12.9	21.6

331057 2009 WR_{2} 2 7.3 136°.04 1°.2/ 6.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.16	+16 30.7	2.116	2.917	13.2	21.9
1 12	9 41.43	+17 9.5	2.037	2.924	10.0	21.7
1 22	9 34.55	+17 56.6	1.983	2.930	6.4	21.5
2 1	9 26.14	+18 47.2	1.957	2.937	2.5	21.3
2 11	9 17.08	+19 35.7	1.961	2.943	2.3	21.3
2 21	9 8.38	+20 17.1	1.994	2.949	6.1	21.5
3 2	9 0.97	+20 48.1	2.055	2.954	9.7	21.8
3 12	8 55.57	+21 7.1	2.140	2.959	12.8	22.0

380933 2006 HD_{74} 2 7.3 294°.76 2°.4/ 5.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.36	+19 37.1	2.113	2.924	12.8	21.2
1 12	9 40.18	+20 28.9	2.032	2.924	9.7	21.0
1 22	9 33.82	+21 27.4	1.975	2.923	6.2	20.8
2 1	9 25.87	+22 27.1	1.945	2.923	3.0	20.6
2 11	9 17.23	+23 21.7	1.946	2.922	3.3	20.6
2 21	9 8.88	+24 5.9	1.975	2.922	6.8	20.8
3 2	9 1.79	+24 36.4	2.031	2.922	10.2	21.0
3 12	8 56.72	+24 52.1	2.111	2.921	13.3	21.2

306827 2001 RL_{22} 2 7.3 69°.29 1°.8/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.32	+20 2.3	2.169	2.974	12.8	20.1
1 12	9 42.15	+20 21.1	2.100	2.989	9.7	19.9
1 22	9 34.90	+20 44.0	2.056	3.003	6.2	19.7
2 1	9 26.23	+21 6.4	2.040	3.018	2.7	19.5
2 11	9 17.07	+21 24.1	2.053	3.033	2.7	19.6
2 21	9 8.38	+21 33.7	2.096	3.048	6.1	19.8
3 2	9 1.05	+21 33.6	2.166	3.063	9.4	20.0
3 12	8 55.74	+21 23.5	2.261	3.077	12.3	20.2

328914 2010 UT_{15} 2 7.3 38°.27 8°.4/13.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.54	− 6 6.5	1.412	2.163	21.0	20.4
1 12	9 39.37	− 6 32.8	1.352	2.182	17.7	20.2
1 22	9 33.53	− 6 27.9	1.309	2.201	14.1	20.0
2 1	9 25.78	− 5 49.7	1.287	2.222	10.6	19.9
2 11	9 17.33	− 4 41.5	1.289	2.243	8.5	19.8
2 21	9 9.45	− 3 10.8	1.316	2.265	9.2	19.9
3 2	9 3.30	− 1 28.2	1.368	2.288	11.9	20.1
3 12	8 59.71	+ 0 15.1	1.442	2.311	15.2	20.4

285502 2000 DU_{42} 2 7.3 253°.78 2°.5/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.70	+22 2.3	2.270	3.075	12.3	20.7
1 12	9 42.60	+22 25.3	2.179	3.067	9.4	20.4
1 22	9 35.33	+22 51.4	2.113	3.059	6.1	20.2
2 1	9 26.47	+23 15.9	2.074	3.050	3.0	20.0
2 11	9 16.91	+23 34.1	2.066	3.042	3.3	20.0
2 21	9 7.64	+23 42.3	2.087	3.033	6.5	20.2
3 2	8 59.62	+23 39.0	2.135	3.025	9.9	20.4
3 12	8 53.61	+23 23.9	2.208	3.016	12.9	20.6

265369 2004 RJ_{181} 2 7.3 182°.70 0°.8/ 7.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.44	+11 31.0	2.363	3.143	12.6	21.0
1 12	9 41.43	+11 42.8	2.272	3.144	9.8	20.8
1 22	9 34.48	+12 4.4	2.205	3.144	6.4	20.6
2 1	9 26.11	+12 33.3	2.167	3.144	2.8	20.4
2 11	9 17.13	+13 5.7	2.158	3.143	1.4	20.3
2 21	9 8.40	+13 37.9	2.180	3.142	5.1	20.5
3 2	9 0.77	+14 6.3	2.231	3.140	8.6	20.7
3 12	8 54.94	+14 28.5	2.308	3.138	11.6	20.9

229896 2009 VE_3 2 7.3 151.°78 0.°8/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.12	+14 0.6	1.559	2.366	16.8	21.2
1 12	9 45.19	+14 45.2	1.484	2.373	12.9	21.0
1 22	9 37.36	+15 44.2	1.432	2.379	8.3	20.7
2 1	9 27.35	+16 51.3	1.405	2.384	3.2	20.4
2 11	9 16.40	+17 58.5	1.406	2.390	2.4	20.4
2 21	9 5.93	+18 57.9	1.435	2.394	7.5	20.7
3 2	8 57.27	+19 44.0	1.491	2.398	12.1	21.0
3 12	8 51.37	+20 14.3	1.569	2.401	16.1	21.3

522691 2016 KS_5 2 7.3 147.°75 2.°1/ 5.2 17

1 2	9 43.17	+19 29.7	2.573	3.377	11.0	22.0
1 12	9 38.87	+20 24.9	2.492	3.381	8.3	21.8
1 22	9 32.80	+21 25.6	2.437	3.384	5.3	21.6
2 1	9 25.44	+22 27.1	2.411	3.388	2.5	21.4
2 11	9 17.54	+23 24.2	2.415	3.392	2.9	21.5
2 21	9 9.88	+24 12.6	2.450	3.395	5.8	21.7
3 2	9 3.23	+24 49.2	2.513	3.398	8.7	21.9
3 12	8 58.22	+25 12.9	2.600	3.401	11.3	22.0

254710 2005 NZ_{23} 2 7.3 34.°12 1.°7/ 8.6 18

1 2	9 42.80	+ 7 9.0	1.578	2.376	17.1	20.2
1 12	9 39.49	+ 7 48.1	1.502	2.382	13.4	19.9
1 22	9 33.63	+ 8 48.0	1.448	2.388	9.0	19.7
2 1	9 25.87	+10 5.0	1.419	2.394	4.3	19.4
2 11	9 17.28	+11 31.6	1.417	2.401	2.1	19.3
2 21	9 9.09	+12 59.3	1.442	2.408	6.5	19.6
3 2	9 2.45	+14 20.0	1.495	2.416	11.0	19.9
3 12	8 58.24	+15 27.6	1.570	2.424	15.0	20.1

215078 2009 FL_{18} 2 7.3 286.°09 1.°6/ 8.2 18

1 2	9 46.26	+10 15.7	1.624	2.424	16.6	20.8
1 12	9 42.37	+10 20.0	1.525	2.406	13.1	20.5
1 22	9 35.69	+10 39.6	1.447	2.389	8.8	20.2
2 1	9 26.78	+11 12.4	1.394	2.371	4.1	19.9
2 11	9 16.70	+11 53.6	1.369	2.353	2.2	19.7
2 21	9 6.76	+12 37.2	1.371	2.336	6.9	19.9
3 2	8 58.31	+13 17.4	1.399	2.318	11.8	20.2
3 12	8 52.42	+13 49.5	1.449	2.301	16.1	20.4

243425 2009 CA_{50} 2 7.3 260.°96 1.°3/ 6.0 18

1 2	9 42.35	+16 16.6	2.352	3.154	12.0	20.2
1 12	9 38.44	+17 10.9	2.264	3.151	9.1	20.0
1 22	9 32.63	+18 14.0	2.201	3.149	5.8	19.8
2 1	9 25.42	+19 21.4	2.166	3.146	2.3	19.5
2 11	9 17.56	+20 27.4	2.162	3.143	2.3	19.5
2 21	9 9.91	+21 26.5	2.187	3.140	5.8	19.7
3 2	9 3.32	+22 15.0	2.240	3.137	9.1	19.9
3 12	8 58.46	+22 50.5	2.318	3.134	12.1	20.1

456398 2006 UX_{190} 2 7.3 96.°31 5.°9/11.3 18

1 2	9 48.20	− 0 44.6	1.868	2.610	16.8	21.3
1 12	9 43.07	− 1 20.2	1.795	2.627	13.9	21.2
1 22	9 35.65	− 1 36.2	1.743	2.644	10.6	21.0
2 1	9 26.59	− 1 31.5	1.716	2.661	7.4	20.8
2 11	9 16.90	− 1 8.0	1.716	2.678	5.9	20.8
2 21	9 7.65	− 0 29.5	1.744	2.694	7.2	20.9
3 2	8 59.86	+ 0 18.1	1.799	2.710	10.2	21.1
3 12	8 54.26	+ 1 8.5	1.878	2.725	13.2	21.3

48861 1998 HR_{24} 2 7.3 188.°30 3.°3/ 5.0 18

1 2	9 52.48	+21 25.0	1.887	2.693	14.4	19.4
1 12	9 46.71	+22 20.4	1.804	2.693	11.0	19.2
1 22	9 38.22	+23 21.9	1.745	2.691	7.2	19.0
2 1	9 27.69	+24 22.5	1.714	2.689	3.8	18.8
2 11	9 16.23	+25 14.3	1.713	2.686	4.3	18.8
2 21	9 5.13	+25 51.5	1.740	2.682	8.0	19.0
3 2	8 55.64	+26 11.3	1.795	2.677	11.8	19.2
3 12	8 48.69	+26 13.8	1.873	2.672	15.2	19.4

109263 2001 QO_{108} 2 7.3 237.°17 4.°3/11.2 18

1 2	9 41.90	− 0 21.2	2.506	3.242	13.1	20.2
1 12	9 37.94	− 0 23.7	2.405	3.235	10.8	20.0
1 22	9 32.24	− 0 9.9	2.326	3.229	8.2	19.8
2 1	9 25.26	+ 0 20.1	2.273	3.222	5.6	19.7
2 11	9 17.66	+ 1 4.3	2.249	3.215	4.3	19.6
2 21	9 10.22	+ 1 59.2	2.254	3.208	5.5	19.6
3 2	9 3.69	+ 2 59.9	2.288	3.201	8.2	19.8
3 12	8 58.70	+ 4 1.4	2.348	3.194	10.9	20.0

28358 1999 FW_{48} 2 7.3 159.°54 2.°6/ 4.9 18

1 2	9 45.82	+22 35.8	2.564	3.367	11.1	18.8
1 12	9 40.88	+23 14.4	2.484	3.371	8.4	18.6
1 22	9 34.07	+23 55.8	2.429	3.375	5.5	18.4
2 1	9 25.95	+24 35.1	2.404	3.378	3.0	18.3
2 11	9 17.28	+25 7.9	2.408	3.381	3.4	18.3
2 21	9 8.92	+25 30.6	2.443	3.383	6.1	18.5
3 2	9 1.66	+25 41.4	2.505	3.386	9.0	18.6
3 12	8 56.14	+25 40.2	2.592	3.388	11.5	18.8

423718 2006 BL_{76} 2 7.3 240.°31 1.°5/ 6.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.69	+19 11.3	2.210	3.010	12.7	21.6
1 12	9 43.39	+19 24.4	2.116	3.001	9.7	21.4
1 22	9 35.88	+19 42.1	2.047	2.993	6.3	21.1
2 1	9 26.72	+20 0.6	2.005	2.984	2.6	20.9
2 11	9 16.81	+20 15.5	1.993	2.974	2.4	20.8
2 21	9 7.19	+20 23.2	2.011	2.965	6.1	21.1
3 2	8 58.83	+20 21.8	2.057	2.955	9.8	21.3
3 12	8 52.52	+20 10.5	2.128	2.945	13.0	21.4

417822 2007 FJ_{23} 2 7.3 9.°40 6.°7/ 3.2 18

1 2	9 49.53	+30 19.4	1.620	2.448	15.3	20.6
1 12	9 44.89	+31 15.8	1.555	2.448	12.1	20.4
1 22	9 37.20	+32 9.6	1.511	2.450	8.8	20.2
2 1	9 27.29	+32 51.6	1.493	2.452	6.8	20.1
2 11	9 16.51	+33 13.5	1.501	2.454	7.7	20.2
2 21	9 6.38	+33 11.3	1.535	2.457	10.6	20.4
3 2	8 58.26	+32 45.1	1.593	2.460	13.9	20.6
3 12	8 53.07	+31 58.5	1.672	2.464	17.0	20.8

409630 2005 WH_{116} 2 7.3 13.°62 7.°2/11.7 18

1 2	9 42.39	− 1 12.2	1.476	2.246	19.3	20.0
1 12	9 39.31	− 1 59.9	1.402	2.250	16.1	19.8
1 22	9 33.58	− 2 23.8	1.347	2.255	12.5	19.6
2 1	9 25.88	− 2 21.5	1.314	2.261	9.0	19.4
2 11	9 17.32	− 1 54.2	1.306	2.268	7.2	19.3
2 21	9 9.18	− 1 6.8	1.322	2.276	8.6	19.4
3 2	9 2.67	− 0 6.6	1.364	2.285	11.8	19.6
3 12	8 58.66	+ 0 57.5	1.427	2.295	15.3	19.8

244994 2004 BH_{147} 2 7.3 208.°61 0.°7/ 7.8 17

1 2	9 45.86	+12 42.2	2.287	3.074	12.8	20.4
1 12	9 41.05	+12 39.6	2.198	3.074	9.9	20.2
1 22	9 34.27	+12 45.4	2.133	3.073	6.5	20.0
2 1	9 26.05	+12 57.4	2.095	3.073	2.8	19.7
2 11	9 17.23	+13 12.3	2.088	3.072	1.5	19.6
2 21	9 8.70	+13 27.1	2.110	3.072	5.2	19.9
3 2	9 1.32	+13 38.9	2.161	3.071	8.7	20.1
3 12	8 55.77	+13 45.5	2.237	3.071	11.8	20.3

17327 4155 $T\text{-}_1$ 2 7.3 39.°76 1.°6/ 6.1 18

1 2	9 45.67	+17 21.4	1.820	2.632	14.5	18.4
1 12	9 41.44	+17 59.5	1.742	2.635	11.1	18.2
1 22	9 34.77	+18 46.6	1.688	2.637	7.1	18.0
2 1	9 26.31	+19 37.2	1.661	2.640	2.9	17.7
2 11	9 17.08	+20 24.7	1.662	2.643	2.8	17.7
2 21	9 8.25	+21 3.7	1.691	2.646	6.9	18.0
3 2	9 0.91	+21 30.2	1.747	2.650	10.9	18.2
3 12	8 55.87	+21 42.9	1.826	2.653	14.4	18.4

137761 1999 XG_{177} 2 7.3 354.°35 7.°6/ 1.6 18

1 2	9 47.41	+29 41.9	1.553	2.386	15.6	18.5
1 12	9 43.57	+31 24.4	1.488	2.384	12.3	18.3
1 22	9 36.56	+33 7.7	1.445	2.383	9.2	18.1
2 1	9 27.11	+34 39.9	1.428	2.383	7.6	18.0
2 11	9 16.59	+35 49.7	1.438	2.382	8.9	18.1
2 21	9 6.56	+36 30.3	1.472	2.382	11.9	18.2
3 2	8 58.53	+36 40.4	1.530	2.382	15.2	18.5
3 12	8 53.52	+36 23.2	1.607	2.382	18.3	18.7

57248 2001 QT_{91} 2 7.3 38.°31 1.°5/ 7.1 18

1 2	10 13.75	+24 39.3	1.218	2.020	20.9	17.2
1 12	10 2.91	+23 12.3	1.169	2.053	16.0	17.0
1 22	9 48.24	+21 39.8	1.142	2.086	10.3	16.7
2 1	9 31.33	+19 59.5	1.142	2.121	4.2	16.5
2 11	9 14.40	+18 12.4	1.173	2.156	2.9	16.5
2 21	8 59.49	+16 23.4	1.233	2.192	8.4	16.9
3 2	8 48.04	+14 38.1	1.321	2.228	13.4	17.3
3 12	8 40.65	+12 59.9	1.432	2.264	17.3	17.7

377946 2006 HZ_{90} 2 7.3 142.°36 4.°1/ 3.4 18

1 2	9 46.04	+26 7.3	2.403	3.214	11.5	21.1
1 12	9 41.25	+27 13.8	2.331	3.220	8.8	21.0
1 22	9 34.42	+28 21.5	2.285	3.226	6.1	20.8
2 1	9 26.12	+29 24.2	2.267	3.232	4.2	20.7
2 11	9 17.21	+30 15.9	2.279	3.237	4.9	20.8
2 21	9 8.63	+30 52.3	2.319	3.242	7.4	20.9
3 2	9 1.26	+31 11.8	2.387	3.247	10.2	21.1
3 12	8 55.81	+31 14.8	2.478	3.252	12.6	21.3

314802 2006 TQ_{76} 2 7.3 137.°92 6.°1/ 3.4 18

1 2	9 55.23	+31 40.3	1.961	2.768	13.9	20.9
1 12	9 48.67	+32 27.4	1.895	2.776	10.9	20.7
1 22	9 39.34	+33 10.1	1.853	2.784	8.0	20.5
2 1	9 28.07	+33 40.4	1.838	2.792	6.2	20.4
2 11	9 16.12	+33 51.7	1.851	2.799	6.9	20.5
2 21	9 4.84	+33 41.3	1.893	2.806	9.4	20.7
3 2	8 55.46	+33 9.9	1.960	2.812	12.4	20.8
3 12	8 48.77	+32 21.3	2.050	2.818	15.1	21.0

223666 2004 PN_{38} 2 7.3 116°.08 0°.5/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 44.58	+10 20.8	2.154	2.940	13.5	20.5
1 12	9 40.15	+11 7.5	2.077	2.952	10.4	20.3
1 22	9 33.72	+12 7.5	2.024	2.964	6.8	20.1
2 1	9 25.85	+13 16.6	1.998	2.976	2.8	19.9
2 11	9 17.39	+14 29.2	2.003	2.988	1.4	19.8
2 21	9 9.26	+15 39.2	2.038	2.999	5.4	20.1
3 2	9 2.32	+16 41.6	2.101	3.010	9.0	20.3
3 12	8 57.27	+17 32.9	2.189	3.020	12.2	20.5

394347 2007 AD_{1} 2 7.3 355°.05 1°.0/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.44	+14 2.4	1.086	1.928	20.2	21.1
1 12	9 41.17	+14 39.9	1.017	1.924	15.6	20.8
1 22	9 35.35	+15 37.0	0.966	1.921	10.1	20.5
2 1	9 26.74	+16 46.7	0.938	1.919	3.9	20.1
2 11	9 16.83	+17 58.6	0.933	1.918	2.9	20.1
2 21	9 7.47	+19 1.7	0.953	1.917	9.2	20.4
3 2	9 0.37	+19 48.2	0.994	1.918	14.9	20.7
3 12	8 56.72	+20 14.4	1.055	1.920	19.8	21.0

242189 2003 MM_{5} 2 7.3 287°.97 2°.1/ 5.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.22	+15 6.6	1.538	2.357	16.4	19.7
1 12	9 41.99	+16 17.7	1.434	2.330	12.7	19.4
1 22	9 35.74	+17 47.9	1.353	2.304	8.2	19.0
2 1	9 26.94	+19 30.7	1.297	2.276	3.4	18.7
2 11	9 16.64	+21 15.8	1.268	2.249	3.6	18.6
2 21	9 6.29	+22 52.0	1.267	2.222	8.8	18.8
3 2	8 57.43	+24 10.4	1.291	2.194	14.0	19.1
3 12	8 51.36	+25 6.3	1.337	2.167	18.5	19.3

47581 2000 AN_{178} 2 7.3 137°.70 3°.4/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.13	+ 3 24.2	1.893	2.649	16.1	19.8
1 12	9 44.57	+ 3 35.5	1.816	2.666	12.9	19.6
1 22	9 36.65	+ 4 5.6	1.761	2.681	9.2	19.4
2 1	9 27.03	+ 4 52.7	1.732	2.696	5.3	19.2
2 11	9 16.73	+ 5 52.6	1.732	2.710	3.5	19.1
2 21	9 6.85	+ 6 59.0	1.761	2.722	6.1	19.3
3 2	8 58.45	+ 8 5.7	1.820	2.734	9.9	19.5
3 12	8 52.28	+ 9 7.0	1.903	2.744	13.3	19.8

411407 2010 VD_{137} 2 7.3 127°.11 0°.3/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.55	+14 4.5	1.969	2.765	14.2	22.2
1 12	9 42.61	+14 34.5	1.893	2.776	10.9	22.0
1 22	9 35.39	+15 14.9	1.841	2.785	7.0	21.8
2 1	9 26.54	+16 1.2	1.815	2.795	2.7	21.5
2 11	9 17.03	+16 48.0	1.820	2.804	1.8	21.5
2 21	9 7.92	+17 30.1	1.854	2.813	6.0	21.8
3 2	9 0.22	+18 3.5	1.915	2.821	9.9	22.0
3 12	8 54.68	+18 26.1	2.001	2.829	13.2	22.2

518875 2010 ER_{24} 2 7.3 309°.30 5°.6/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 40.86	− 2 11.1	2.144	2.883	15.0	20.8
1 12	9 37.54	− 2 26.6	2.037	2.866	12.6	20.6
1 22	9 32.21	− 2 22.9	1.952	2.850	9.8	20.4
2 1	9 25.35	− 1 58.6	1.890	2.833	7.1	20.2
2 11	9 17.69	− 1 15.1	1.856	2.817	5.6	20.0
2 21	9 10.12	− 0 16.1	1.850	2.801	6.8	20.1
3 2	9 3.57	+ 0 52.9	1.870	2.786	9.5	20.2
3 12	8 58.81	+ 2 5.1	1.916	2.771	12.6	20.4

249414 2009 DC_{47} 2 7.3 24°.72 5°.6/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 39.27	− 6 39.3	1.708	2.445	18.4	19.2
1 12	9 36.57	− 5 38.5	1.633	2.459	15.3	19.0
1 22	9 31.63	− 4 4.7	1.576	2.474	11.7	18.8
2 1	9 25.09	− 1 59.6	1.544	2.490	8.1	18.6
2 11	9 17.89	+ 0 29.6	1.540	2.507	5.7	18.5
2 21	9 11.07	+ 3 11.8	1.564	2.525	6.7	18.6
3 2	9 5.62	+ 5 54.4	1.618	2.544	10.0	18.8
3 12	9 2.29	+ 8 25.8	1.698	2.563	13.4	19.1

154774 2004 PK_{28} 2 7.3 134°.49 0°.7/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.42	+10 25.7	2.018	2.808	14.1	20.7
1 12	9 40.23	+11 0.1	1.934	2.812	10.9	20.5
1 22	9 33.89	+11 48.2	1.875	2.816	7.2	20.2
2 1	9 25.97	+12 46.4	1.842	2.819	3.1	20.0
2 11	9 17.36	+13 49.3	1.838	2.823	1.5	19.9
2 21	9 9.05	+14 50.9	1.864	2.826	5.7	20.2
3 2	9 1.99	+15 46.0	1.917	2.829	9.5	20.4
3 12	8 56.94	+16 31.0	1.995	2.832	12.9	20.6

414832 2010 UF_{75} 2 7.3 58°.99 0°.0/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.32	+15 1.1	1.614	2.422	16.3	20.7
1 12	9 44.32	+15 3.4	1.546	2.435	12.5	20.5
1 22	9 36.63	+15 15.3	1.501	2.448	8.0	20.3
2 1	9 27.05	+15 33.0	1.481	2.461	3.2	20.0
2 11	9 16.78	+15 51.4	1.490	2.475	1.9	20.0
2 21	9 7.11	+16 6.0	1.526	2.488	6.7	20.3
3 2	8 59.23	+16 13.5	1.589	2.502	11.1	20.6
3 12	8 53.94	+16 12.5	1.674	2.516	14.8	20.8

94887 2001 XA_{254} 2 7.3 97°.18 5°.6/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 55.55	+27 27.6	1.605	2.421	16.0	18.6
1 12	9 49.21	+28 21.5	1.551	2.441	12.3	18.4
1 22	9 39.81	+29 14.4	1.519	2.461	8.5	18.2
2 1	9 28.28	+29 57.1	1.514	2.480	5.8	18.1
2 11	9 16.09	+30 21.7	1.537	2.498	6.5	18.2
2 21	9 4.79	+30 24.5	1.587	2.517	9.7	18.4
3 2	8 55.69	+30 5.9	1.662	2.534	13.2	18.7
3 12	8 49.60	+29 29.6	1.759	2.552	16.2	18.9

82481 2001 OR_{32} 2 7.3 50°.94 3°.5/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.51	+22 7.1	1.533	2.357	16.2	19.1
1 12	9 44.71	+22 43.3	1.471	2.369	12.3	18.8
1 22	9 37.00	+23 24.1	1.431	2.381	8.0	18.6
2 1	9 27.22	+24 2.1	1.417	2.394	4.1	18.4
2 11	9 16.69	+24 30.0	1.431	2.407	4.5	18.5
2 21	9 6.87	+24 42.8	1.471	2.420	8.5	18.7
3 2	8 59.03	+24 39.0	1.537	2.433	12.5	19.0
3 12	8 53.99	+24 19.7	1.624	2.447	16.0	19.3

164218 2004 PX_{84} 2 7.3 125°.74 6°.0/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.76	− 6 41.9	1.907	2.619	17.5	20.2
1 12	9 42.04	− 6 8.0	1.826	2.635	14.6	20.0
1 22	9 35.06	− 5 5.6	1.764	2.650	11.4	19.9
2 1	9 26.43	− 3 35.3	1.728	2.665	8.1	19.7
2 11	9 17.12	− 1 41.6	1.719	2.680	6.1	19.6
2 21	9 8.18	+ 0 27.0	1.741	2.693	7.0	19.7
3 2	9 0.62	+ 2 40.6	1.791	2.706	9.9	19.9
3 12	8 55.19	+ 4 49.3	1.869	2.718	13.1	20.1

411240 2010 RG_{9} 2 7.3 205°.46 0°.3/ 7.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.82	+12 7.2	2.149	2.934	13.5	22.5
1 12	9 42.80	+12 36.2	2.053	2.929	10.5	22.3
1 22	9 35.57	+13 17.0	1.982	2.923	6.8	22.0
2 1	9 26.67	+14 5.9	1.938	2.916	2.8	21.8
2 11	9 16.97	+14 58.1	1.924	2.908	1.5	21.6
2 21	9 7.47	+15 48.1	1.940	2.900	5.7	21.9
3 2	8 59.18	+16 31.6	1.985	2.891	9.6	22.1
3 12	8 52.88	+17 5.6	2.055	2.882	13.0	22.3

307610 2003 QR_{65} 2 7.3 96°.71 1°.6/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.33	+16 27.2	1.679	2.488	15.7	21.1
1 12	9 44.27	+17 14.6	1.615	2.506	11.9	20.9
1 22	9 36.59	+18 12.1	1.575	2.523	7.6	20.6
2 1	9 27.04	+19 13.4	1.561	2.541	3.0	20.4
2 11	9 16.81	+20 10.7	1.576	2.558	2.8	20.4
2 21	9 7.17	+20 57.8	1.619	2.575	7.2	20.7
3 2	8 59.26	+21 31.0	1.689	2.591	11.3	21.0
3 12	8 53.89	+21 49.0	1.782	2.607	14.8	21.3

71816 2000 UY_{7} 2 7.3 357°.35 3°.8/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.00	+ 4 39.3	1.498	2.287	18.2	19.1
1 12	9 41.39	+ 4 36.7	1.417	2.286	14.7	18.9
1 22	9 35.02	+ 4 55.5	1.355	2.286	10.4	18.6
2 1	9 26.53	+ 5 34.7	1.317	2.285	6.0	18.4
2 11	9 17.06	+ 6 30.1	1.305	2.285	3.9	18.2
2 21	9 7.94	+ 7 34.5	1.320	2.285	7.1	18.4
3 2	9 0.47	+ 8 40.3	1.361	2.286	11.6	18.7
3 12	8 55.61	+ 9 40.4	1.424	2.286	15.7	18.9

430323 2013 YY_{24} 2 7.3 47°.45 1°.8/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.47	+18 33.2	2.059	2.869	13.2	20.9
1 12	9 40.24	+19 12.4	1.984	2.876	10.0	20.7
1 22	9 33.87	+19 58.3	1.934	2.882	6.3	20.5
2 1	9 25.96	+20 45.8	1.911	2.889	2.7	20.3
2 11	9 17.43	+21 29.3	1.917	2.897	2.8	20.3
2 21	9 9.28	+22 4.2	1.952	2.904	6.4	20.6
3 2	9 2.44	+22 27.2	2.014	2.912	9.9	20.8
3 12	8 57.62	+22 37.4	2.099	2.919	13.0	21.0

40525 1999 RO_{96} 2 7.3 187°.69 0°.8/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.82	+15 18.6	2.093	2.887	13.6	21.0
1 12	9 43.59	+15 52.5	2.005	2.886	10.4	20.8
1 22	9 36.07	+16 35.9	1.941	2.885	6.7	20.5
2 1	9 26.87	+17 24.2	1.904	2.884	2.6	20.3
2 11	9 16.89	+18 12.0	1.898	2.881	2.0	20.2
2 21	9 7.19	+18 54.1	1.922	2.878	6.1	20.5
3 2	8 58.81	+19 26.6	1.974	2.875	10.0	20.7
3 12	8 52.53	+19 47.7	2.050	2.870	13.3	20.9

42792 1999 AM_{13} 2 7.3 220°.42 1°.2/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.51	+11 49.3	1.734	2.527	16.0	20.1
1 12	9 45.35	+11 46.4	1.643	2.521	12.5	19.8
1 22	9 37.46	+11 55.6	1.574	2.514	8.3	19.6
2 1	9 27.48	+12 14.2	1.530	2.508	3.7	19.3
2 11	9 16.51	+12 37.8	1.516	2.500	1.9	19.1
2 21	9 5.84	+13 1.9	1.530	2.493	6.6	19.4
3 2	8 56.74	+13 22.0	1.571	2.485	11.2	19.6
3 12	8 50.16	+13 35.3	1.635	2.476	15.1	19.9

407721 2011 UN_{295} 2 7.3 158°.18 6°.0/ 3.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.76	+27 34.5	1.701	2.522	15.0	21.4
1 12	9 45.76	+28 54.4	1.633	2.526	11.6	21.2
1 22	9 37.79	+30 15.8	1.588	2.529	8.3	21.0
2 1	9 27.60	+31 28.8	1.569	2.531	6.1	20.9
2 11	9 16.47	+32 24.0	1.579	2.534	7.1	20.9
2 21	9 5.85	+32 55.6	1.615	2.536	10.2	21.1
3 2	8 57.10	+33 2.1	1.675	2.537	13.6	21.3
3 12	8 51.18	+32 46.0	1.757	2.539	16.7	21.5

345605 2006 SM_{165} 2 7.3 286°.49 4°.1/10.7 17

1 2	9 41.88	+ 1 26.0	2.325	3.075	13.7	21.2
1 12	9 38.12	+ 1 19.8	2.221	3.062	11.2	21.0
1 22	9 32.49	+ 1 29.7	2.139	3.050	8.3	20.8
2 1	9 25.45	+ 1 55.8	2.083	3.038	5.5	20.6
2 11	9 17.71	+ 2 35.8	2.055	3.026	4.1	20.4
2 21	9 10.10	+ 3 26.2	2.056	3.014	5.7	20.5
3 2	9 3.45	+ 4 22.0	2.086	3.002	8.7	20.7
3 12	8 58.46	+ 5 18.1	2.140	2.990	11.7	20.8

112532 2002 PY_{37} 2 7.3 265°.77 2°.6/ 9.1 18

1 2	9 44.89	+ 6 23.9	1.737	2.522	16.3	20.6
1 12	9 41.08	+ 6 38.7	1.642	2.512	13.0	20.3
1 22	9 34.74	+ 7 12.3	1.568	2.502	9.0	20.1
2 1	9 26.43	+ 8 3.0	1.519	2.491	4.7	19.8
2 11	9 17.13	+ 9 6.1	1.498	2.481	2.7	19.6
2 21	9 8.01	+10 14.8	1.505	2.470	6.4	19.8
3 2	9 0.26	+11 22.1	1.539	2.459	10.9	20.1
3 12	8 54.83	+12 22.0	1.596	2.448	14.9	20.3

495216 2013 ET_{12} 2 7.3 243°.90 3°.5/ 5.2 17

1 2	9 51.29	+22 29.2	1.714	2.529	15.2	22.1
1 12	9 46.15	+23 6.7	1.627	2.520	11.7	21.9
1 22	9 38.08	+23 49.1	1.562	2.510	7.7	21.6
2 1	9 27.76	+24 29.6	1.525	2.500	4.1	21.4
2 11	9 16.37	+25 0.5	1.515	2.489	4.5	21.4
2 21	9 5.35	+25 16.5	1.533	2.479	8.5	21.6
3 2	8 56.05	+25 15.2	1.577	2.468	12.6	21.8
3 12	8 49.49	+24 57.3	1.643	2.457	16.3	22.0

319382 2006 DC_{152} 2 7.3 243°.50 0°.9/ 7.9 18

1 2	9 47.58	+10 50.1	1.750	2.545	15.8	21.7
1 12	9 43.17	+11 8.5	1.655	2.534	12.3	21.5
1 22	9 36.11	+11 41.7	1.581	2.523	8.2	21.2
2 1	9 26.99	+12 26.7	1.534	2.511	3.6	20.9
2 11	9 16.84	+13 18.0	1.515	2.500	1.8	20.7
2 21	9 6.88	+14 9.4	1.524	2.487	6.6	21.0
3 2	8 58.36	+14 55.2	1.560	2.475	11.2	21.2
3 12	8 52.26	+15 31.2	1.620	2.462	15.2	21.4

341222 2007 RT_{138} 2 7.3 81°.26 3°.7/10.5 18

1 2	9 42.14	+ 1 53.6	2.230	2.985	14.0	20.5
1 12	9 38.30	+ 2 1.5	2.142	2.988	11.4	20.3
1 22	9 32.57	+ 2 26.7	2.075	2.990	8.3	20.1
2 1	9 25.48	+ 3 8.1	2.034	2.993	5.2	20.0
2 11	9 17.77	+ 4 2.6	2.022	2.996	3.7	19.9
2 21	9 10.30	+ 5 5.6	2.039	2.999	5.5	20.0
3 2	9 3.90	+ 6 11.6	2.085	3.002	8.6	20.2
3 12	8 59.23	+ 7 15.0	2.156	3.005	11.6	20.4

459902 2014 ME_{11} 2 7.3 241°.74 4°.3/ 9.9 18

1 2	9 47.55	+ 4 1.1	1.652	2.426	17.4	21.6
1 12	9 43.22	+ 3 44.3	1.559	2.418	14.1	21.4
1 22	9 36.19	+ 3 46.4	1.486	2.410	10.2	21.1
2 1	9 27.04	+ 4 7.7	1.438	2.402	6.3	20.9
2 11	9 16.83	+ 4 45.3	1.417	2.394	4.4	20.7
2 21	9 6.84	+ 5 34.1	1.423	2.385	7.2	20.9
3 2	8 58.34	+ 6 27.6	1.456	2.376	11.4	21.1
3 12	8 52.35	+ 7 19.2	1.512	2.366	15.4	21.3

122827 2000 SU_{108} 2 7.3 151°.34 0°.9/ 7.9 18

1 2	9 48.66	+10 32.2	1.869	2.657	15.2	20.2
1 12	9 43.61	+10 56.3	1.789	2.664	11.8	20.0
1 22	9 36.15	+11 34.3	1.732	2.671	7.8	19.8
2 1	9 26.92	+12 22.6	1.701	2.678	3.4	19.5
2 11	9 16.94	+13 15.7	1.699	2.684	1.7	19.4
2 21	9 7.34	+14 7.7	1.727	2.689	6.0	19.7
3 2	8 59.19	+14 53.6	1.783	2.694	10.2	20.0
3 12	8 53.31	+15 30.0	1.862	2.699	13.8	20.2

370192 2002 CA_{204} 2 7.3 345°.78 2°.8/ 5.8 18

1 2	9 50.75	+22 34.2	1.821	2.634	14.5	20.6
1 12	9 45.39	+22 45.7	1.741	2.632	11.1	20.4
1 22	9 37.37	+22 59.5	1.684	2.631	7.3	20.2
2 1	9 27.41	+23 10.5	1.653	2.630	3.6	19.9
2 11	9 16.67	+23 13.2	1.651	2.629	3.7	19.9
2 21	9 6.42	+23 4.3	1.677	2.628	7.5	20.2
3 2	8 57.86	+22 42.8	1.731	2.627	11.4	20.4
3 12	8 51.81	+22 9.7	1.807	2.626	14.8	20.6

334047 2001 LR_1 2 7.3 172°.27 6°.0/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.28	+33 35.1	2.665	3.469	10.7	21.0
1 12	9 42.29	+35 10.7	2.596	3.472	8.6	20.9
1 22	9 35.19	+36 43.5	2.555	3.474	6.8	20.7
2 1	9 26.54	+38 6.0	2.542	3.476	6.1	20.7
2 11	9 17.16	+39 11.8	2.559	3.477	6.9	20.8
2 21	9 8.01	+39 57.1	2.604	3.478	8.8	20.9
3 2	9 0.04	+40 20.7	2.674	3.479	10.9	21.0
3 12	8 53.98	+40 24.1	2.767	3.479	12.8	21.2

10470 Bartczak 2 7.3 155°.31 2°.1/ 6.0 18

1 2	9 52.20	+19 29.0	1.810	2.616	14.9	19.3
1 12	9 46.45	+19 57.6	1.734	2.622	11.4	19.1
1 22	9 38.03	+20 32.4	1.681	2.628	7.3	18.9
2 1	9 27.67	+21 7.6	1.655	2.633	3.2	18.6
2 11	9 16.53	+21 37.0	1.658	2.638	3.2	18.6
2 21	9 5.88	+21 55.9	1.690	2.642	7.2	18.9
3 2	8 56.92	+22 1.8	1.749	2.646	11.3	19.1
3 12	8 50.50	+21 54.7	1.831	2.649	14.7	19.4

379048 2008 WL_{33} 2 7.3 91°.74 4°.8/11.0 18

1 2	9 46.91	+ 0 19.2	2.313	3.048	14.1	20.9
1 12	9 41.69	− 0 14.3	2.238	3.067	11.6	20.8
1 22	9 34.61	− 0 32.4	2.185	3.086	8.8	20.6
2 1	9 26.24	− 0 34.7	2.159	3.105	6.1	20.5
2 11	9 17.38	− 0 22.6	2.161	3.123	4.8	20.5
2 21	9 8.88	+ 0 1.1	2.192	3.142	6.0	20.6
3 2	9 1.54	+ 0 32.3	2.252	3.160	8.6	20.7
3 12	8 55.98	+ 1 6.6	2.338	3.177	11.2	20.9

197254 2003 WB_{72} 2 7.3 330°.55 6°.5/ 2.3 18

1 2	9 47.82	+31 33.8	1.967	2.786	13.3	19.8
1 12	9 43.26	+32 38.7	1.894	2.782	10.6	19.6
1 22	9 36.06	+33 41.2	1.844	2.777	7.9	19.4
2 1	9 26.92	+34 32.9	1.821	2.773	6.5	19.3
2 11	9 16.95	+35 6.3	1.825	2.768	7.4	19.4
2 21	9 7.41	+35 17.5	1.856	2.765	9.9	19.5
3 2	8 59.49	+35 5.6	1.912	2.761	12.8	19.7
3 12	8 54.05	+34 33.3	1.988	2.757	15.4	19.8

383626 2007 QE_{15} 2 7.3 143°.65 0°.5/ 7.8 17

1 2	9 43.99	+11 29.5	2.409	3.193	12.3	21.8
1 12	9 39.57	+11 56.0	2.324	3.199	9.5	21.6
1 22	9 33.31	+12 32.8	2.264	3.204	6.2	21.4
2 1	9 25.76	+13 16.9	2.231	3.209	2.6	21.2
2 11	9 17.64	+14 4.2	2.229	3.214	1.3	21.1
2 21	9 9.79	+14 50.1	2.257	3.218	4.9	21.3
3 2	9 2.99	+15 31.0	2.314	3.223	8.3	21.5
3 12	8 57.88	+16 4.1	2.396	3.227	11.2	21.7

197542 2004 EU_{97} 2 7.3 50°.30 1°.1/ 6.5 18

1 2	9 44.61	+16 20.9	1.973	2.780	13.7	20.2
1 12	9 40.34	+16 54.2	1.906	2.796	10.4	20.0
1 22	9 33.92	+17 35.6	1.863	2.811	6.6	19.8
2 1	9 26.00	+18 20.6	1.847	2.827	2.6	19.6
2 11	9 17.52	+19 3.6	1.860	2.843	2.2	19.6
2 21	9 9.49	+19 39.7	1.901	2.859	6.1	19.9
3 2	9 2.84	+20 5.7	1.970	2.875	9.8	20.1
3 12	8 58.24	+20 20.2	2.063	2.891	12.9	20.3

520116 2014 AZ_{58} 2 7.3 2°.53 3°.0/ 9.5 17

1 2	9 43.86	+ 6 5.3	2.234	3.003	13.6	21.5
1 12	9 39.61	+ 5 49.1	2.144	3.003	10.8	21.3
1 22	9 33.42	+ 5 45.5	2.077	3.003	7.7	21.1
2 1	9 25.82	+ 5 53.9	2.037	3.003	4.5	20.9
2 11	9 17.60	+ 6 12.1	2.025	3.004	3.0	20.8
2 21	9 9.64	+ 6 36.7	2.043	3.004	5.4	21.0
3 2	9 2.78	+ 7 4.0	2.088	3.005	8.6	21.2
3 12	8 57.69	+ 7 30.3	2.159	3.006	11.7	21.4

48359 1219 T_{-2} 2 7.3 119°.76 1°.3/ 6.6 18

1 2	9 52.40	+16 21.7	1.523	2.332	17.0	21.2
1 12	9 46.93	+16 54.7	1.456	2.346	13.0	20.9
1 22	9 38.48	+17 38.5	1.411	2.359	8.3	20.7
2 1	9 27.87	+18 26.7	1.391	2.371	3.3	20.4
2 11	9 16.43	+19 11.7	1.400	2.383	2.7	20.4
2 21	9 5.64	+19 47.2	1.437	2.395	7.6	20.7
3 2	8 56.83	+20 9.5	1.500	2.406	12.2	21.0
3 12	8 50.88	+20 17.5	1.585	2.416	16.0	21.3

31957 Braunstein 2 7.3 279°.69 0°.9/ 7.9 18

1 2	9 45.54	+10 4.2	1.489	2.296	17.5	18.9
1 12	9 42.11	+10 36.4	1.395	2.281	13.7	18.6
1 22	9 35.72	+11 28.6	1.322	2.266	9.2	18.3
2 1	9 26.94	+12 36.9	1.273	2.251	4.0	17.9
2 11	9 16.89	+13 54.4	1.251	2.236	2.0	17.8
2 21	9 7.00	+15 12.0	1.256	2.221	7.4	18.1
3 2	8 58.71	+16 21.5	1.287	2.206	12.6	18.3
3 12	8 53.17	+17 17.0	1.339	2.191	17.2	18.5

11130 1996 VA_{30} 2 7.3 104°.94 7°.5/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.98	− 5 51.2	1.783	2.505	18.2	18.8
1 12	9 42.36	− 6 18.1	1.709	2.521	15.4	18.6
1 22	9 35.35	− 6 19.8	1.655	2.537	12.2	18.4
2 1	9 26.63	− 5 54.6	1.623	2.552	9.2	18.3
2 11	9 17.20	− 5 4.3	1.617	2.567	7.5	18.2
2 21	9 8.18	− 3 54.0	1.638	2.581	8.3	18.3
3 2	9 0.64	− 2 31.5	1.686	2.595	10.8	18.5
3 12	8 55.36	− 1 5.5	1.758	2.609	13.8	18.7

157359 2004 TV_{107} 2 7.3 149°.91 0°.1/ 7.2 18

1 2	9 45.57	+13 26.7	2.176	2.969	13.1	20.6
1 12	9 40.98	+13 57.3	2.093	2.974	10.1	20.4
1 22	9 34.34	+14 37.9	2.034	2.978	6.5	20.2
2 1	9 26.21	+15 25.0	2.003	2.982	2.5	20.0
2 11	9 17.44	+16 13.4	2.002	2.986	1.5	19.9
2 21	9 8.97	+16 58.3	2.030	2.990	5.5	20.2
3 2	9 1.71	+17 35.7	2.087	2.993	9.2	20.4
3 12	8 56.35	+18 3.4	2.168	2.996	12.4	20.6

34140 2000 QE_{11} 2 7.3 122°.05 0°.1/ 7.4 18

1 2	9 50.26	+14 40.5	2.121	2.909	13.6	19.7
1 12	9 44.47	+14 41.2	2.044	2.922	10.4	19.5
1 22	9 36.51	+14 49.4	1.992	2.934	6.7	19.3
2 1	9 27.03	+15 1.9	1.967	2.946	2.7	19.1
2 11	9 16.99	+15 15.3	1.972	2.957	1.5	19.0
2 21	9 7.39	+15 26.0	2.008	2.968	5.5	19.3
3 2	8 59.18	+15 31.7	2.072	2.979	9.2	19.6
3 12	8 53.05	+15 30.9	2.161	2.989	12.4	19.8

384993 2012 TS_{205} 2 7.3 138°.99 1°.2/ 6.2 17

1 2	9 44.33	+17 27.9	2.616	3.412	11.1	21.5
1 12	9 39.71	+18 3.9	2.536	3.420	8.4	21.4
1 22	9 33.36	+18 45.7	2.481	3.427	5.3	21.2
2 1	9 25.78	+19 29.6	2.454	3.433	2.2	21.0
2 11	9 17.71	+20 11.1	2.459	3.440	2.1	21.0
2 21	9 9.90	+20 46.6	2.494	3.446	5.2	21.2
3 2	9 3.11	+21 13.4	2.557	3.452	8.2	21.4
3 12	8 57.93	+21 30.1	2.646	3.458	10.9	21.6

227779 2006 VR_{136} 2 7.3 274°.28 0°.1/ 7.3 18

1 2	9 48.92	+13 47.1	1.360	2.177	18.3	20.6
1 12	9 44.97	+14 4.6	1.272	2.165	14.2	20.3
1 22	9 37.70	+14 37.4	1.205	2.154	9.3	20.0
2 1	9 27.77	+15 20.9	1.162	2.142	3.7	19.6
2 11	9 16.49	+16 7.8	1.145	2.130	2.2	19.5
2 21	9 5.48	+16 50.5	1.154	2.118	8.2	19.8
3 2	8 56.39	+17 22.7	1.188	2.106	13.6	20.1
3 12	8 50.42	+17 41.2	1.243	2.094	18.3	20.3

59469 1999 GJ_{61} 2 7.3 303°.05 10°.1/30.8 18

1 2	9 52.74	+38 9.7	1.687	2.504	15.3	19.5
1 12	9 48.14	+39 36.2	1.600	2.476	12.9	19.2
1 22	9 39.90	+40 56.9	1.535	2.448	10.9	19.1
2 1	9 28.69	+41 59.5	1.494	2.420	10.1	18.9
2 11	9 15.95	+42 32.7	1.478	2.392	11.4	18.9
2 21	9 3.50	+42 30.2	1.486	2.364	13.9	19.0
3 2	8 53.18	+41 52.3	1.516	2.337	17.0	19.1
3 12	8 46.30	+40 44.5	1.564	2.309	19.9	19.3

496299 2013 CB_{124} 2 7.3 341°.78 0°.3/ 7.6 17

1 2	9 40.90	+10 56.9	1.178	2.011	19.5	21.0
1 12	9 39.07	+11 33.6	1.099	2.000	15.3	20.7
1 22	9 33.99	+12 33.3	1.040	1.991	10.0	20.3
2 1	9 26.32	+13 51.2	1.003	1.983	4.1	20.0
2 11	9 17.35	+15 17.6	0.990	1.975	2.2	19.8
2 21	9 8.72	+16 41.5	1.002	1.969	8.4	20.2
3 2	9 2.06	+17 52.8	1.037	1.964	14.1	20.4
3 12	8 58.55	+18 45.2	1.092	1.961	19.0	20.7

1408 Trusanda 2 7.3 99°.37 3°.2/10.3 18

1 2	9 42.67	+ 2 57.1	2.403	3.156	13.2	16.4
1 12	9 38.53	+ 3 1.9	2.319	3.165	10.6	16.2
1 22	9 32.65	+ 3 21.6	2.257	3.174	7.7	16.0
2 1	9 25.52	+ 3 55.3	2.222	3.183	4.7	15.9
2 11	9 17.88	+ 4 40.0	2.217	3.192	3.3	15.8
2 21	9 10.49	+ 5 31.6	2.240	3.200	5.1	15.9
3 2	9 4.12	+ 6 25.6	2.293	3.209	8.0	16.1
3 12	8 59.37	+ 7 17.4	2.371	3.217	10.8	16.3

411215 2010 NP_{68} 2 7.3 68°.60 9°.2/ 1.9 17

1 2	9 58.61	+37 23.6	1.657	2.466	15.9	20.1
1 12	9 51.59	+38 47.0	1.627	2.500	12.9	20.0
1 22	9 41.30	+39 58.6	1.619	2.533	10.3	19.9
2 1	9 28.90	+40 47.5	1.638	2.567	9.2	19.9
2 11	9 16.04	+41 6.6	1.682	2.600	9.9	20.0
2 21	9 4.39	+40 54.6	1.752	2.632	12.0	20.2
3 2	8 55.27	+40 15.2	1.845	2.664	14.4	20.5
3 12	8 49.41	+39 15.0	1.958	2.696	16.6	20.7

96490 1998 KQ_{7} 2 7.3 318°.20 7°.2/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 42.40	− 0 54.0	1.423	2.198	19.7	18.8
1 12	9 39.76	− 1 30.8	1.329	2.181	16.6	18.5
1 22	9 34.25	− 1 42.9	1.253	2.165	12.9	18.2
2 1	9 26.40	− 1 27.0	1.198	2.149	9.2	18.0
2 11	9 17.29	− 0 43.8	1.167	2.134	7.2	17.8
2 21	9 8.30	+ 0 21.9	1.161	2.119	9.0	17.9
3 2	9 0.86	+ 1 41.4	1.179	2.105	12.9	18.0
3 12	8 56.12	+ 3 4.6	1.219	2.092	17.1	18.2

360101 2013 BN_{79} 2 7.3 257°.01 0°.5/ 7.0 18

1 2	9 46.74	+13 4.7	1.652	2.458	16.1	20.9
1 12	9 42.76	+13 48.8	1.558	2.445	12.4	20.6
1 22	9 36.01	+14 48.8	1.486	2.432	8.1	20.4
2 1	9 27.05	+15 59.9	1.439	2.419	3.2	20.0
2 11	9 16.94	+17 14.3	1.421	2.406	2.2	19.9
2 21	9 7.01	+18 24.0	1.431	2.392	7.3	20.2
3 2	8 58.58	+19 22.2	1.468	2.378	12.1	20.4
3 12	8 52.72	+20 5.0	1.527	2.363	16.2	20.7

331301 2011 EW_{26} 2 7.3 99°.04 0°.4/ 7.7 18

1 2	9 44.98	+11 30.0	2.076	2.867	13.8	21.0
1 12	9 40.57	+12 2.8	2.000	2.878	10.6	20.8
1 22	9 34.08	+12 47.5	1.948	2.890	6.9	20.6
2 1	9 26.12	+13 40.5	1.923	2.901	2.8	20.3
2 11	9 17.55	+14 36.5	1.928	2.913	1.5	20.2
2 21	9 9.35	+15 30.1	1.962	2.924	5.5	20.5
3 2	9 2.41	+16 16.8	2.024	2.935	9.2	20.8
3 12	8 57.41	+16 53.6	2.111	2.945	12.4	21.0

123423 2000 WV_{107} 2 7.3 154°.12 2°.5/ 9.3 18

1 2	9 46.84	+ 6 40.5	2.310	3.074	13.4	20.2
1 12	9 41.78	+ 6 33.3	2.223	3.080	10.6	20.0
1 22	9 34.78	+ 6 38.5	2.159	3.085	7.4	19.9
2 1	9 26.38	+ 6 54.7	2.123	3.091	4.1	19.7
2 11	9 17.39	+ 7 19.4	2.116	3.095	2.6	19.6
2 21	9 8.69	+ 7 49.1	2.139	3.100	5.2	19.7
3 2	9 1.11	+ 8 19.9	2.191	3.104	8.5	19.9
3 12	8 55.33	+ 8 48.4	2.268	3.107	11.5	20.1

293976 2007 TS_{57} 2 7.3 153°.09 3°.2/ 5.1 18

1 2	9 51.48	+22 9.6	2.001	2.806	13.7	21.6
1 12	9 45.72	+22 57.9	1.927	2.815	10.4	21.4
1 22	9 37.49	+23 50.5	1.878	2.823	6.8	21.2
2 1	9 27.49	+24 40.7	1.856	2.830	3.6	21.0
2 11	9 16.76	+25 21.9	1.864	2.837	4.1	21.1
2 21	9 6.49	+25 49.5	1.902	2.843	7.4	21.3
3 2	8 57.77	+26 1.3	1.966	2.848	10.9	21.5
3 12	8 51.39	+25 57.8	2.054	2.853	14.0	21.7

492004 2013 FT_{4} 2 7.3 209°.51 1°.2/ 6.4 17

1 2	9 49.21	+16 46.6	2.067	2.865	13.6	22.5
1 12	9 44.02	+17 20.3	1.975	2.859	10.4	22.3
1 22	9 36.47	+18 2.6	1.906	2.852	6.7	22.1
2 1	9 27.13	+18 48.7	1.865	2.845	2.7	21.8
2 11	9 16.94	+19 33.0	1.855	2.837	2.4	21.8
2 21	9 7.00	+20 10.2	1.874	2.828	6.4	22.0
3 2	8 58.38	+20 36.9	1.920	2.819	10.3	22.2
3 12	8 51.91	+20 51.3	1.991	2.809	13.7	22.4

359148 2009 BV_{111} 2 7.3 144°.32 1°.8/ 8.4 18

1 2	9 50.15	+ 9 42.9	1.816	2.599	15.7	21.7
1 12	9 44.80	+ 9 41.8	1.736	2.607	12.3	21.5
1 22	9 36.96	+ 9 54.1	1.678	2.615	8.3	21.3
2 1	9 27.30	+10 17.2	1.647	2.622	4.0	21.0
2 11	9 16.88	+10 47.2	1.645	2.628	2.1	20.9
2 21	9 6.88	+11 19.2	1.671	2.634	6.1	21.2
3 2	8 58.42	+11 48.8	1.726	2.640	10.3	21.5
3 12	8 52.31	+12 12.5	1.804	2.645	13.9	21.7

246855 2010 GY_{116} 2 7.3 241°.32 0°.0/ 7.3 17

1 2	9 43.81	+13 52.6	2.542	3.331	11.6	21.6
1 12	9 39.46	+14 15.2	2.444	3.322	8.9	21.4
1 22	9 33.31	+14 46.1	2.371	3.314	5.8	21.2
2 1	9 25.83	+15 22.4	2.326	3.305	2.3	21.0
2 11	9 17.74	+16 0.2	2.311	3.296	1.4	20.9
2 21	9 9.81	+16 35.7	2.327	3.287	4.9	21.1
3 2	9 2.85	+17 5.6	2.372	3.277	8.3	21.3
3 12	8 57.50	+17 27.6	2.441	3.268	11.2	21.5

158192 2001 RD_{135} 2 7.3 102°.42 1°.6/ 6.3 18

1 2	9 49.50	+15 55.1	1.516	2.330	16.9	20.6
1 12	9 44.78	+16 45.7	1.450	2.342	12.9	20.4
1 22	9 37.16	+17 48.7	1.406	2.355	8.2	20.2
2 1	9 27.42	+18 57.0	1.387	2.367	3.3	19.9
2 11	9 16.85	+20 1.8	1.397	2.379	3.0	19.9
2 21	9 6.86	+20 55.8	1.434	2.391	7.7	20.2
3 2	8 58.75	+21 34.3	1.497	2.402	12.2	20.5
3 12	8 53.42	+21 55.7	1.582	2.413	16.0	20.8

104743 2000 HW_{10} 2 7.4 276°.38 2°.2/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 45.42	+ 8 4.3	1.833	2.620	15.5	19.3
1 12	9 41.42	+ 8 8.4	1.734	2.606	12.3	19.0
1 22	9 34.97	+ 8 27.9	1.657	2.592	8.5	18.7
2 1	9 26.61	+ 9 1.4	1.605	2.579	4.3	18.5
2 11	9 17.27	+ 9 44.7	1.582	2.565	2.4	18.3
2 21	9 8.10	+10 32.6	1.586	2.551	6.2	18.5
3 2	9 0.23	+11 19.4	1.618	2.537	10.5	18.7
3 12	8 54.58	+12 0.4	1.674	2.523	14.4	18.9

307394 2002 TP_{42} 2 7.4 99°.16 7°.7/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.53	+34 39.4	1.842	2.651	14.5	20.6
1 12	9 49.13	+35 51.3	1.792	2.670	11.6	20.4
1 22	9 39.78	+36 56.0	1.765	2.688	9.0	20.3
2 1	9 28.39	+37 44.0	1.765	2.706	7.7	20.2
2 11	9 16.36	+38 8.0	1.793	2.723	8.5	20.3
2 21	9 5.15	+38 5.2	1.847	2.740	10.8	20.5
3 2	8 56.04	+37 37.3	1.925	2.757	13.4	20.7
3 12	8 49.83	+36 49.1	2.024	2.773	15.8	20.9

369993 1999 RO_{37} 2 7.4 47°.73 2°.4/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.77	− 3 32.3	0.794	1.604	28.6	19.3
1 12	9 43.87	− 0 39.6	0.760	1.642	22.4	19.1
1 22	9 36.99	+ 3 7.4	0.742	1.681	15.1	18.8
2 1	9 27.36	+ 7 31.5	0.746	1.721	7.2	18.6
2 11	9 17.00	+12 2.0	0.776	1.761	2.8	18.5
2 21	9 7.95	+16 7.4	0.832	1.801	9.2	19.0
3 2	9 1.84	+19 27.6	0.912	1.841	15.3	19.5
3 12	8 59.51	+21 56.4	1.013	1.881	20.2	19.9

381936 2010 CM_{165} 2 7.4 297°.28 3°.2/ 4.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.53	+23 9.0	2.089	2.902	12.9	21.0
1 12	9 42.01	+23 45.8	2.002	2.894	9.9	20.8
1 22	9 35.18	+24 26.0	1.939	2.885	6.5	20.5
2 1	9 26.63	+25 3.9	1.903	2.877	3.6	20.3
2 11	9 17.31	+25 33.7	1.896	2.869	4.1	20.3
2 21	9 8.28	+25 51.2	1.918	2.861	7.3	20.5
3 2	9 0.59	+25 54.1	1.966	2.853	10.7	20.7
3 12	8 55.05	+25 42.6	2.038	2.845	13.8	20.9

330145 2006 AB_{30} 2 7.4 225°.33 0°.4/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.61	+11 37.1	2.086	2.877	13.7	21.3
1 12	9 40.42	+12 5.3	1.996	2.874	10.6	21.1
1 22	9 34.11	+12 45.7	1.929	2.871	6.9	20.8
2 1	9 26.20	+13 35.0	1.889	2.868	2.9	20.6
2 11	9 17.55	+14 28.2	1.879	2.864	1.5	20.5
2 21	9 9.15	+15 19.9	1.898	2.860	5.6	20.7
3 2	9 1.94	+16 5.6	1.945	2.856	9.5	20.9
3 12	8 56.69	+16 41.7	2.017	2.852	12.9	21.2

65167 2002 CJ_{166} 2 7.4 130°.61 2°.1/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.86	+18 17.9	2.045	2.852	13.3	20.0
1 12	9 41.41	+19 11.9	1.967	2.857	10.1	19.8
1 22	9 34.74	+20 13.8	1.914	2.863	6.5	19.6
2 1	9 26.44	+21 17.9	1.889	2.868	2.9	19.4
2 11	9 17.44	+22 17.5	1.894	2.872	3.1	19.4
2 21	9 8.78	+23 7.2	1.927	2.877	6.7	19.6
3 2	9 1.45	+23 43.2	1.988	2.881	10.3	19.8
3 12	8 56.20	+24 4.3	2.072	2.886	13.4	20.1

447273 2005 UV_{433} 2 7.4 99°.17 0°.0/ 7.1 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.24	+12 52.6	1.577	2.375	17.0	22.4
1 12	9 46.56	+13 23.6	1.517	2.400	13.0	22.2
1 22	9 38.12	+14 7.9	1.479	2.423	8.4	22.0
2 1	9 27.75	+15 0.1	1.467	2.446	3.3	21.7
2 11	9 16.73	+15 53.1	1.484	2.469	1.9	21.6
2 21	9 6.41	+16 40.4	1.529	2.490	6.8	22.0
3 2	8 57.99	+17 17.4	1.601	2.511	11.2	22.3
3 12	8 52.26	+17 41.9	1.697	2.532	14.9	22.6

310290 2011 UG_{80} 2 7.4 198°.11 0°.6/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.37	+14 54.1	2.022	2.814	14.0	22.2
1 12	9 44.94	+15 21.8	1.930	2.810	10.8	22.0
1 22	9 37.08	+15 59.3	1.862	2.806	7.0	21.7
2 1	9 27.41	+16 42.4	1.822	2.802	2.7	21.4
2 11	9 16.89	+17 25.7	1.812	2.796	1.9	21.4
2 21	9 6.63	+18 3.8	1.832	2.789	6.2	21.6
3 2	8 57.73	+18 32.9	1.880	2.782	10.3	21.8
3 12	8 51.04	+18 51.1	1.952	2.774	13.8	22.1

443886 2001 UF_{229} 2 7.4 62°.72 0°.6/ 7.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.72	+10 15.9	1.283	2.096	19.4	21.4
1 12	9 44.35	+10 58.8	1.232	2.121	14.9	21.2
1 22	9 36.90	+12 1.2	1.201	2.147	9.7	21.0
2 1	9 27.31	+13 16.6	1.194	2.173	4.0	20.7
2 11	9 17.02	+14 35.5	1.214	2.199	2.0	20.7
2 21	9 7.54	+15 48.5	1.260	2.225	7.4	21.1
3 2	9 0.20	+16 48.6	1.331	2.250	12.3	21.4
3 12	8 55.82	+17 32.3	1.424	2.276	16.4	21.7

424243 2007 RP_{217} 2 7.4 178°.36 3°.5/ 4.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.65	+25 57.1	2.476	3.280	11.4	21.8
1 12	9 43.20	+26 30.2	2.395	3.281	8.8	21.6
1 22	9 35.72	+27 3.5	2.340	3.281	5.9	21.4
2 1	9 26.79	+27 31.8	2.313	3.282	3.7	21.3
2 11	9 17.28	+27 50.6	2.316	3.282	4.2	21.3
2 21	9 8.13	+27 56.8	2.349	3.282	6.8	21.4
3 2	9 0.20	+27 49.3	2.409	3.281	9.6	21.6
3 12	8 54.19	+27 29.0	2.494	3.280	12.2	21.8

52685 1998 EZ_{9} 2 7.4 282°.99 4°.0/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.89	+26 35.3	2.376	3.185	11.6	19.4
1 12	9 42.11	+27 14.8	2.282	3.170	9.0	19.2
1 22	9 35.18	+27 55.2	2.213	3.154	6.2	19.0
2 1	9 26.64	+28 30.6	2.172	3.139	4.1	18.8
2 11	9 17.34	+28 55.9	2.160	3.123	4.7	18.9
2 21	9 8.28	+29 7.1	2.177	3.108	7.4	19.0
3 2	9 0.41	+29 2.9	2.222	3.092	10.4	19.1
3 12	8 54.51	+28 43.8	2.289	3.076	13.1	19.3

459389 2012 KQ_{19} 2 7.4 109°.94 6°.6/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.53	+31 18.3	1.949	2.765	13.5	20.4
1 12	9 44.56	+32 36.4	1.885	2.771	10.7	20.3
1 22	9 36.92	+33 52.0	1.845	2.777	8.0	20.1
2 1	9 27.34	+34 56.1	1.832	2.782	6.6	20.0
2 11	9 16.97	+35 41.1	1.846	2.787	7.5	20.1
2 21	9 7.10	+36 2.6	1.888	2.792	10.0	20.3
3 2	8 58.92	+36 0.1	1.954	2.797	12.8	20.4
3 12	8 53.27	+35 36.4	2.042	2.802	15.4	20.6

16336 5080 T_{-2} 2 7.4 206°.71 2°.8/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.58	+ 7 6.8	1.817	2.592	16.0	19.5
1 12	9 44.55	+ 6 59.5	1.724	2.588	12.8	19.3
1 22	9 36.95	+ 7 7.6	1.653	2.583	8.9	19.1
2 1	9 27.40	+ 7 29.7	1.608	2.578	4.8	18.8
2 11	9 16.90	+ 8 2.6	1.591	2.572	3.0	18.7
2 21	9 6.66	+ 8 41.3	1.603	2.566	6.4	18.9
3 2	8 57.84	+ 9 20.7	1.643	2.559	10.6	19.1
3 12	8 51.38	+ 9 56.1	1.706	2.551	14.4	19.3

439746 2015 FJ_{300} 2 7.4 250°.73 13°.0/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.20	−16 12.8	1.304	2.002	24.7	21.5
1 12	9 41.48	−16 38.4	1.217	1.996	22.2	21.3
1 22	9 35.56	−16 20.6	1.143	1.990	19.1	21.1
2 1	9 27.02	−15 10.7	1.085	1.983	15.9	20.8
2 11	9 17.07	−13 6.3	1.049	1.976	13.5	20.7
2 21	9 7.29	−10 14.0	1.036	1.969	13.1	20.6
3 2	8 59.32	− 6 49.6	1.047	1.962	15.3	20.7
3 12	8 54.41	− 3 14.4	1.081	1.954	18.7	20.9

19793 2000 RX_{42} 2 7.4 290°.95 7°.5/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.22	− 4 21.1	1.910	2.640	16.9	16.8
1 12	9 40.42	− 5 6.4	1.809	2.627	14.4	16.6
1 22	9 34.30	− 5 31.2	1.729	2.614	11.6	16.4
2 1	9 26.37	− 5 32.4	1.671	2.602	8.9	16.2
2 11	9 17.49	− 5 9.9	1.640	2.589	7.5	16.1
2 21	9 8.73	− 4 26.3	1.635	2.577	8.4	16.1
3 2	9 1.16	− 3 27.2	1.656	2.564	11.0	16.2
3 12	8 55.67	− 2 20.1	1.700	2.552	14.1	16.4

41918 2000 WA_{156} 2 7.4 304°.98 1°.1/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.28	+13 0.0	1.447	2.259	17.6	18.9
1 12	9 44.37	+12 44.7	1.350	2.239	13.9	18.6
1 22	9 37.31	+12 41.3	1.274	2.220	9.3	18.3
2 1	9 27.69	+12 47.4	1.222	2.200	4.1	17.9
2 11	9 16.71	+12 58.9	1.197	2.181	2.1	17.7
2 21	9 5.90	+13 10.9	1.197	2.163	7.6	18.0
3 2	8 56.82	+13 18.9	1.223	2.145	12.9	18.3
3 12	8 50.67	+13 19.9	1.270	2.127	17.6	18.5

16100 1999 VO_{30} 2 7.4 210°.59 1°.0/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.67	+10 50.0	1.623	2.419	16.8	19.5
1 12	9 44.95	+11 6.9	1.535	2.415	13.1	19.2
1 22	9 37.39	+11 39.5	1.468	2.410	8.7	18.9
2 1	9 27.62	+12 24.3	1.427	2.404	3.8	18.6
2 11	9 16.80	+13 15.3	1.414	2.399	1.9	18.5
2 21	9 6.27	+14 6.0	1.429	2.392	6.9	18.8
3 2	8 57.36	+14 50.5	1.470	2.385	11.7	19.0
3 12	8 51.09	+15 24.5	1.535	2.378	15.8	19.3

125098 2001 UT_{32} 2 7.4 117°.49 0°.6/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.41	+12 51.5	1.595	2.400	16.6	20.2
1 12	9 43.85	+13 45.3	1.525	2.412	12.7	20.0
1 22	9 36.55	+14 54.5	1.476	2.423	8.2	19.7
2 1	9 27.23	+16 12.9	1.454	2.433	3.1	19.5
2 11	9 17.07	+17 32.1	1.460	2.444	2.2	19.4
2 21	9 7.39	+18 43.7	1.494	2.454	7.1	19.7
3 2	8 59.43	+19 41.8	1.555	2.463	11.6	20.0
3 12	8 54.08	+20 23.5	1.638	2.472	15.4	20.3

366828 2005 JZ_{67} 2 7.4 285°.65 2°.0/ 8.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.98	+ 9 38.7	1.766	2.555	15.9	20.9
1 12	9 43.74	+ 9 34.3	1.651	2.525	12.6	20.6
1 22	9 36.74	+ 9 44.0	1.557	2.495	8.7	20.3
2 1	9 27.45	+10 6.4	1.489	2.464	4.3	20.0
2 11	9 16.85	+10 38.0	1.448	2.432	2.4	19.8
2 21	9 6.16	+11 13.8	1.436	2.400	6.8	20.0
3 2	8 56.74	+11 48.5	1.451	2.368	11.6	20.2
3 12	8 49.74	+12 17.5	1.489	2.336	16.0	20.4

82914 2001 QS_{103} 2 7.4 80°.65 8°.2/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.12	+34 41.7	1.761	2.577	14.8	18.9
1 12	9 47.50	+36 6.6	1.713	2.594	11.9	18.8
1 22	9 38.86	+37 24.7	1.689	2.612	9.3	18.6
2 1	9 28.10	+38 25.4	1.690	2.629	8.2	18.6
2 11	9 16.63	+39 0.8	1.719	2.646	9.1	18.7
2 21	9 5.96	+39 7.7	1.773	2.663	11.4	18.9
3 2	8 57.38	+38 47.4	1.851	2.680	14.0	19.1
3 12	8 51.73	+38 4.9	1.948	2.697	16.4	19.3

334556 2002 SS_{69} 2 7.4 113°.67 2°.9/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.91	+23 24.4	2.316	3.121	12.0	21.0
1 12	9 42.69	+23 57.8	2.242	3.130	9.2	20.8
1 22	9 35.41	+24 33.2	2.194	3.139	6.0	20.7
2 1	9 26.69	+25 5.4	2.174	3.147	3.3	20.5
2 11	9 17.42	+25 29.7	2.183	3.155	3.7	20.5
2 21	9 8.55	+25 42.7	2.222	3.164	6.6	20.7
3 2	9 0.98	+25 42.9	2.289	3.172	9.6	20.9
3 12	8 55.37	+25 30.8	2.380	3.179	12.3	21.1

304855 2007 RZ_{68} 2 7.4 75°.76 0°.3/ 7.2 13 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.14	+13 5.9	1.518	2.326	17.2	21.3
1 12	9 44.33	+13 43.8	1.460	2.348	13.1	21.1
1 22	9 36.77	+14 35.7	1.423	2.370	8.4	20.9
2 1	9 27.27	+15 35.7	1.412	2.392	3.3	20.7
2 11	9 17.10	+16 36.0	1.429	2.414	2.0	20.6
2 21	9 7.60	+17 29.7	1.474	2.435	7.0	21.0
3 2	8 59.97	+18 11.6	1.544	2.456	11.4	21.3
3 12	8 55.01	+18 39.4	1.638	2.477	15.2	21.6

502451 2015 BW_{291} 2 7.4 333°.71 0°.5/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 41.76	+10 0.6	2.038	2.831	13.9	20.7
1 12	9 38.33	+10 49.3	1.948	2.828	10.8	20.5
1 22	9 32.82	+11 53.4	1.882	2.824	7.1	20.2
2 1	9 25.74	+13 8.8	1.843	2.821	3.0	20.0
2 11	9 17.92	+14 29.6	1.833	2.818	1.5	19.9
2 21	9 10.32	+15 48.9	1.852	2.815	5.7	20.1
3 2	9 3.87	+17 0.8	1.899	2.812	9.6	20.4
3 12	8 59.33	+18 0.7	1.971	2.810	13.0	20.6

136229 2003 WG_{112} 2 7.4 204°.46 1°.4/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.94	+10 34.4	1.912	2.697	15.0	20.1
1 12	9 43.93	+10 35.8	1.821	2.694	11.7	19.9
1 22	9 36.48	+10 49.4	1.752	2.690	7.9	19.6
2 1	9 27.21	+11 13.0	1.711	2.686	3.6	19.4
2 11	9 17.08	+11 42.5	1.698	2.682	1.9	19.2
2 21	9 7.24	+12 13.3	1.714	2.677	6.0	19.5
3 2	8 58.78	+12 41.2	1.759	2.672	10.2	19.7
3 12	8 52.56	+13 2.9	1.827	2.667	13.8	19.9

38385 1999 RT_{181} 2 7.4 164°.98 0°.6/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.93	+10 56.6	2.251	3.035	13.0	19.5
1 12	9 40.48	+11 25.5	2.164	3.038	10.1	19.3
1 22	9 34.06	+12 6.2	2.101	3.041	6.6	19.1
2 1	9 26.20	+12 55.5	2.066	3.043	2.8	18.9
2 11	9 17.70	+13 48.6	2.061	3.045	1.4	18.8
2 21	9 9.46	+14 40.6	2.085	3.047	5.2	19.0
3 2	9 2.34	+15 27.3	2.138	3.049	8.8	19.3
3 12	8 57.04	+16 5.4	2.217	3.050	12.0	19.5

156532 2002 CA_{277} 2 7.4 108°.91 1°.2/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.49	+ 9 25.5	2.065	2.848	14.1	20.6
1 12	9 40.99	+ 9 51.5	1.988	2.860	10.9	20.5
1 22	9 34.40	+10 31.0	1.934	2.872	7.3	20.3
2 1	9 26.33	+11 20.8	1.908	2.883	3.3	20.0
2 11	9 17.65	+12 15.8	1.910	2.895	1.6	19.9
2 21	9 9.32	+13 10.8	1.942	2.906	5.4	20.2
3 2	9 2.25	+14 1.0	2.003	2.916	9.1	20.4
3 12	8 57.14	+14 42.7	2.088	2.927	12.4	20.7

172864 2005 EQ_{84} 2 7.4 334°.85 3°.0/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.00	+19 43.5	1.431	2.260	16.9	20.4
1 12	9 43.32	+20 26.0	1.354	2.254	13.0	20.2
1 22	9 36.52	+21 18.0	1.297	2.249	8.4	19.9
2 1	9 27.33	+22 12.1	1.266	2.244	3.9	19.6
2 11	9 17.04	+22 59.2	1.261	2.240	4.2	19.6
2 21	9 7.19	+23 32.4	1.282	2.236	8.8	19.9
3 2	8 59.24	+23 47.7	1.328	2.233	13.5	20.1
3 12	8 54.24	+23 44.6	1.394	2.230	17.5	20.4

340669 2006 RD_{39} 2 7.4 127°.48 6°.1/14.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 41.37	− 8 34.0	2.724	3.406	13.3	20.9
1 12	9 37.43	− 8 40.6	2.633	3.413	11.4	20.8
1 22	9 31.93	− 8 28.2	2.562	3.420	9.3	20.6
2 1	9 25.32	− 7 55.7	2.517	3.427	7.3	20.5
2 11	9 18.22	− 7 4.6	2.499	3.434	6.1	20.4
2 21	9 11.32	− 5 58.1	2.509	3.441	6.5	20.5
3 2	9 5.29	− 4 41.2	2.548	3.447	8.1	20.6
3 12	9 0.68	− 3 19.6	2.613	3.453	10.1	20.7

170237 2003 QF_{26} 2 7.4 220°.84 0°.0/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.59	+15 9.4	1.833	2.627	15.2	20.4
1 12	9 46.88	+15 3.8	1.740	2.620	11.8	20.1
1 22	9 38.47	+15 6.4	1.670	2.614	7.7	19.8
2 1	9 28.03	+15 13.7	1.627	2.606	3.1	19.5
2 11	9 16.65	+15 21.7	1.614	2.598	1.7	19.4
2 21	9 5.58	+15 26.6	1.629	2.590	6.5	19.7
3 2	8 56.08	+15 25.7	1.673	2.582	10.9	20.0
3 12	8 49.06	+15 17.5	1.740	2.573	14.7	20.2

337552 2001 SB_{260} 2 7.4 121°.60 1°.6/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.27	+ 8 28.6	2.599	3.368	11.9	21.7
1 12	9 39.63	+ 8 37.1	2.517	3.380	9.3	21.6
1 22	9 33.33	+ 8 56.3	2.459	3.391	6.3	21.4
2 1	9 25.86	+ 9 24.0	2.429	3.402	3.2	21.2
2 11	9 17.92	+ 9 57.3	2.430	3.412	1.8	21.1
2 21	9 10.26	+10 32.7	2.460	3.423	4.5	21.3
3 2	9 3.58	+11 6.9	2.520	3.433	7.5	21.5
3 12	8 58.46	+11 36.8	2.607	3.443	10.3	21.7

131769 2002 AE_{15} 2 7.4 26°.12 10°.0/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.84	+35 7.9	1.195	2.031	19.1	18.9
1 12	9 50.79	+36 7.9	1.145	2.038	15.5	18.7
1 22	9 41.54	+36 58.2	1.114	2.045	12.0	18.5
2 1	9 29.27	+37 25.3	1.105	2.054	10.1	18.4
2 11	9 16.05	+37 19.1	1.120	2.064	10.9	18.5
2 21	9 4.10	+36 37.4	1.159	2.074	13.9	18.7
3 2	8 55.21	+35 24.8	1.218	2.085	17.4	18.9
3 12	8 50.32	+33 50.0	1.296	2.096	20.6	19.2

5775 Inuyama 2 7.4 149°.26 4°.8/11.5 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.86	− 1 29.0	2.248	2.977	14.7	17.7
1 12	9 41.13	− 1 32.3	2.161	2.986	12.1	17.6
1 22	9 34.45	− 1 16.9	2.095	2.994	9.2	17.4
2 1	9 26.36	− 0 42.9	2.056	3.002	6.3	17.2
2 11	9 17.64	+ 0 7.4	2.045	3.009	4.8	17.2
2 21	9 9.20	+ 1 9.4	2.063	3.016	6.1	17.2
3 2	9 1.87	+ 2 17.5	2.110	3.022	8.8	17.4
3 12	8 56.35	+ 3 25.9	2.183	3.027	11.7	17.6

226839 2004 SV_{22} 2 7.4 190°.40 2°.9/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.75	+ 5 31.3	2.052	2.823	14.6	21.2
1 12	9 40.53	+ 5 30.3	1.963	2.823	11.6	21.0
1 22	9 34.19	+ 5 44.6	1.896	2.823	8.2	20.8
2 1	9 26.29	+ 6 12.9	1.855	2.822	4.7	20.6
2 11	9 17.67	+ 6 52.2	1.842	2.822	3.0	20.5
2 21	9 9.31	+ 7 37.8	1.859	2.821	5.7	20.7
3 2	9 2.15	+ 8 24.7	1.903	2.821	9.3	20.9
3 12	8 56.93	+ 9 8.4	1.972	2.820	12.6	21.1

519604 2012 TB_{330} 2 7.4 205°.29 3°.8/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.03	+ 1 22.0	2.621	3.361	12.5	21.7
1 12	9 38.78	+ 1 13.3	2.523	3.358	10.2	21.5
1 22	9 32.86	+ 1 18.7	2.448	3.355	7.6	21.3
2 1	9 25.71	+ 1 37.9	2.399	3.352	5.1	21.2
2 11	9 18.01	+ 2 9.3	2.380	3.349	3.8	21.1
2 21	9 10.47	+ 2 49.5	2.390	3.345	5.2	21.1
3 2	9 3.82	+ 3 34.8	2.429	3.342	7.8	21.3
3 12	8 58.66	+ 4 20.9	2.494	3.338	10.5	21.5

284798 2008 YT_{103} 2 7.4 314°.05 1°.6/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.99	+17 9.5	2.147	2.955	12.8	20.8
1 12	9 39.23	+17 58.1	2.058	2.949	9.7	20.6
1 22	9 33.38	+18 55.5	1.994	2.943	6.2	20.3
2 1	9 25.98	+19 56.9	1.958	2.937	2.6	20.1
2 11	9 17.85	+20 56.1	1.951	2.932	2.6	20.1
2 21	9 9.94	+21 47.8	1.973	2.926	6.3	20.3
3 2	9 3.20	+22 27.8	2.022	2.921	9.9	20.5
3 12	8 58.36	+22 54.2	2.095	2.916	13.0	20.7

81013 2000 EY_{37} 2 7.4 110°.87 2°.3/ 5.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.36	+20 2.1	1.894	2.701	14.3	18.4
1 12	9 44.91	+20 36.8	1.826	2.715	10.8	18.2
1 22	9 37.01	+21 17.0	1.781	2.728	6.9	17.9
2 1	9 27.38	+21 56.8	1.763	2.741	3.2	17.7
2 11	9 17.10	+22 30.1	1.775	2.754	3.3	17.8
2 21	9 7.35	+22 52.5	1.816	2.766	7.0	18.0
3 2	8 59.19	+23 1.8	1.884	2.778	10.7	18.3
3 12	8 53.40	+22 57.9	1.975	2.790	13.9	18.5

522562 2016 EU_{243} 2 7.4 258°.23 0°.5/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 44.50	+13 59.2	1.999	2.800	13.8	21.6
1 12	9 40.47	+14 38.7	1.913	2.799	10.6	21.4
1 22	9 34.22	+15 29.6	1.851	2.797	6.8	21.2
2 1	9 26.33	+16 27.5	1.816	2.795	2.7	20.9
2 11	9 17.68	+17 26.5	1.810	2.794	1.8	20.8
2 21	9 9.29	+18 20.8	1.833	2.792	6.1	21.1
3 2	9 2.18	+19 5.6	1.883	2.790	10.0	21.3
3 12	8 57.11	+19 38.3	1.957	2.788	13.4	21.6

77887 2001 ST_{171} 2 7.4 280°.69 0°.9/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.86	+16 1.1	2.272	3.073	12.4	19.7
1 12	9 39.81	+16 34.4	2.174	3.060	9.5	19.4
1 22	9 33.74	+17 16.4	2.100	3.046	6.1	19.2
2 1	9 26.13	+18 3.0	2.053	3.033	2.4	18.9
2 11	9 17.78	+18 49.4	2.037	3.020	2.0	18.9
2 21	9 9.59	+19 30.7	2.049	3.006	5.8	19.1
3 2	9 2.47	+20 3.2	2.090	2.993	9.4	19.3
3 12	8 57.17	+20 24.9	2.155	2.979	12.6	19.5

113225 2002 RV_{121} 2 7.4 223°.58 3°.5/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.16	+ 3 3.5	2.457	3.207	13.0	19.7
1 12	9 39.77	+ 2 52.7	2.358	3.201	10.6	19.6
1 22	9 33.57	+ 2 55.8	2.281	3.196	7.7	19.4
2 1	9 26.03	+ 3 12.4	2.231	3.190	4.9	19.2
2 11	9 17.85	+ 3 40.6	2.211	3.184	3.5	19.1
2 21	9 9.84	+ 4 17.0	2.219	3.177	5.3	19.2
3 2	9 2.79	+ 4 57.8	2.257	3.171	8.2	19.3
3 12	8 57.36	+ 5 38.7	2.320	3.164	11.1	19.5

346835 2009 DH_{27} 2 7.4 119°.38 1°.0/ 8.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.43	+ 9 13.7	2.520	3.297	12.0	21.1
1 12	9 38.36	+ 9 46.9	2.435	3.304	9.3	20.9
1 22	9 32.59	+10 31.9	2.374	3.311	6.2	20.8
2 1	9 25.61	+11 25.7	2.342	3.318	2.8	20.5
2 11	9 18.12	+12 24.2	2.340	3.324	1.4	20.4
2 21	9 10.85	+13 22.8	2.368	3.331	4.6	20.7
3 2	9 4.56	+14 17.2	2.426	3.337	7.8	20.9
3 12	8 59.82	+15 4.2	2.509	3.344	10.7	21.1

104271 2000 EF_{149} 2 7.4 154°.53 0°.6/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.75	+13 8.5	1.881	2.681	14.6	19.7
1 12	9 41.54	+14 5.0	1.800	2.685	11.2	19.5
1 22	9 34.98	+15 15.2	1.742	2.688	7.2	19.3
2 1	9 26.64	+16 33.8	1.711	2.691	2.8	19.0
2 11	9 17.51	+17 53.4	1.709	2.693	2.0	19.0
2 21	9 8.69	+19 6.8	1.737	2.696	6.4	19.2
3 2	9 1.23	+20 8.5	1.792	2.698	10.5	19.5
3 12	8 55.97	+20 55.1	1.871	2.699	14.0	19.7

30362 Jenniferdean 2 7.4 300°.90 1°.9/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.35	+10 55.4	1.384	2.193	18.4	19.0
1 12	9 44.45	+10 42.3	1.296	2.182	14.6	18.7
1 22	9 37.36	+10 44.3	1.228	2.171	9.9	18.4
2 1	9 27.74	+10 59.4	1.184	2.160	4.6	18.0
2 11	9 16.85	+11 23.2	1.165	2.150	2.5	17.9
2 21	9 6.25	+11 49.9	1.173	2.139	7.6	18.1
3 2	8 57.48	+12 13.9	1.206	2.129	12.9	18.4
3 12	8 51.71	+12 31.1	1.260	2.120	17.5	18.7

281745 2008 YZ_{115} 2 7.4 184°.17 0°.7/ 8.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.53	+11 10.9	2.824	3.598	10.9	21.7
1 12	9 39.79	+11 25.2	2.730	3.598	8.5	21.5
1 22	9 33.44	+11 48.0	2.661	3.598	5.6	21.4
2 1	9 25.94	+12 17.2	2.621	3.597	2.5	21.1
2 11	9 17.94	+12 49.6	2.611	3.596	1.2	21.0
2 21	9 10.12	+13 22.1	2.633	3.594	4.3	21.3
3 2	9 3.19	+13 51.6	2.684	3.592	7.3	21.5
3 12	8 57.70	+14 15.9	2.762	3.589	10.0	21.6

219344 2000 QD_{139} 2 7.4 149°.72 4°.4/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.68	+28 40.0	2.380	3.180	11.9	20.9
1 12	9 46.33	+29 20.1	2.308	3.189	9.2	20.8
1 22	9 37.77	+29 58.4	2.262	3.198	6.5	20.6
2 1	9 27.66	+30 28.7	2.244	3.206	4.6	20.5
2 11	9 16.99	+30 46.0	2.256	3.213	5.1	20.5
2 21	9 6.79	+30 47.5	2.298	3.220	7.5	20.7
3 2	8 58.02	+30 32.9	2.367	3.226	10.3	20.9
3 12	8 51.39	+30 3.8	2.461	3.232	12.7	21.1

171871 2001 QD_{157} 2 7.4 127°.00 0°.8/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.22	+12 6.5	2.511	3.290	12.0	20.0
1 12	9 41.18	+12 7.6	2.427	3.299	9.2	19.8
1 22	9 34.37	+12 16.8	2.369	3.307	6.1	19.6
2 1	9 26.31	+12 32.0	2.338	3.315	2.7	19.4
2 11	9 17.75	+12 50.2	2.338	3.323	1.3	19.3
2 21	9 9.49	+13 8.3	2.368	3.330	4.7	19.6
3 2	9 2.29	+13 23.7	2.428	3.337	7.9	19.8
3 12	8 56.76	+13 34.3	2.513	3.344	10.8	20.0

254489 2005 ES_{32} 2 7.4 203°.41 3°.2/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.75	+22 22.5	2.053	2.858	13.4	20.8
1 12	9 45.30	+23 6.9	1.966	2.854	10.2	20.6
1 22	9 37.38	+23 55.6	1.904	2.849	6.7	20.4
2 1	9 27.60	+24 42.6	1.870	2.844	3.6	20.2
2 11	9 16.99	+25 21.2	1.865	2.838	4.1	20.2
2 21	9 6.68	+25 46.7	1.890	2.832	7.4	20.4
3 2	8 57.81	+25 56.7	1.942	2.825	11.0	20.6
3 12	8 51.23	+25 51.4	2.017	2.817	14.2	20.8

301652 2010 EU_{109} 2 7.4 223°.12 1°.2/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.33	+16 14.7	1.722	2.527	15.6	21.6
1 12	9 45.40	+16 43.5	1.632	2.520	12.0	21.4
1 22	9 37.67	+17 22.8	1.565	2.512	7.7	21.1
2 1	9 27.79	+18 7.5	1.525	2.504	3.1	20.8
2 11	9 16.87	+18 50.9	1.513	2.496	2.5	20.8
2 21	9 6.24	+19 26.9	1.529	2.487	7.2	21.0
3 2	8 57.20	+19 51.4	1.572	2.477	11.7	21.3
3 12	8 50.74	+20 2.5	1.638	2.467	15.6	21.5

499716 2011 AQ_{73} 2 7.4 352°.60 2°.5/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.46	+10 57.6	1.599	2.396	16.9	20.5
1 12	9 44.72	+10 15.6	1.514	2.393	13.3	20.3
1 22	9 37.19	+ 9 44.2	1.452	2.390	9.1	20.0
2 1	9 27.57	+ 9 22.8	1.414	2.388	4.6	19.7
2 11	9 17.02	+ 9 9.2	1.404	2.387	2.8	19.6
2 21	9 6.88	+ 9 0.7	1.422	2.386	6.8	19.9
3 2	8 58.43	+ 8 54.5	1.465	2.385	11.3	20.1
3 12	8 52.60	+ 8 47.5	1.532	2.385	15.3	20.4

217756 2000 QW_{8} 2 7.4 200°.65 1°.5/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.40	+ 8 27.1	1.905	2.679	15.4	22.0
1 12	9 45.93	+ 8 52.2	1.808	2.674	12.2	21.8
1 22	9 37.89	+ 9 33.5	1.734	2.668	8.2	21.5
2 1	9 27.87	+10 28.2	1.687	2.661	3.9	21.2
2 11	9 16.84	+11 30.9	1.669	2.653	2.0	21.1
2 21	9 6.01	+12 35.2	1.682	2.644	6.2	21.3
3 2	8 56.55	+13 35.0	1.723	2.633	10.5	21.6
3 12	8 49.41	+14 25.8	1.788	2.621	14.4	21.8

89995 2002 TL_{72} 2 7.4 84°.34 0°.4/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.44	+16 12.6	2.205	3.001	12.9	20.0
1 12	9 42.38	+16 18.0	2.125	3.008	9.9	19.8
1 22	9 35.26	+16 29.7	2.070	3.015	6.3	19.6
2 1	9 26.70	+16 44.6	2.043	3.022	2.5	19.3
2 11	9 17.56	+16 58.9	2.045	3.029	1.6	19.3
2 21	9 8.81	+17 9.4	2.077	3.037	5.5	19.5
3 2	9 1.32	+17 13.7	2.138	3.044	9.0	19.8
3 12	8 55.78	+17 10.6	2.223	3.051	12.1	20.0

52221 5103 $T\text{-}_{3}$ 2 7.4 350°.86 10°.1/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.38	+35 26.7	1.477	2.310	16.3	18.5
1 12	9 44.82	+37 20.8	1.417	2.306	13.4	18.3
1 22	9 37.73	+39 9.9	1.380	2.303	11.0	18.2
2 1	9 27.90	+40 40.0	1.367	2.300	10.2	18.1
2 11	9 16.85	+41 39.5	1.378	2.298	11.5	18.2
2 21	9 6.39	+42 2.5	1.413	2.297	14.1	18.4
3 2	8 58.22	+41 49.4	1.468	2.296	17.1	18.5
3 12	8 53.43	+41 6.0	1.541	2.296	19.8	18.7

261402 2005 UE_{454} 2 7.4 133°.17 4°.5/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.14	+ 2 1.1	2.158	2.903	14.7	21.1
1 12	9 42.92	+ 1 33.4	2.075	2.913	12.0	20.9
1 22	9 35.63	+ 1 21.0	2.013	2.923	8.9	20.8
2 1	9 26.86	+ 1 24.4	1.978	2.932	5.9	20.6
2 11	9 17.46	+ 1 41.6	1.972	2.941	4.5	20.5
2 21	9 8.39	+ 2 9.6	1.995	2.949	6.1	20.6
3 2	9 0.54	+ 2 44.0	2.046	2.957	9.1	20.8
3 12	8 54.61	+ 3 20.0	2.123	2.965	12.1	21.0

366880 2005 SS_{247} 2 7.4 91°.83 1°.7/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.24	+18 7.2	1.864	2.672	14.4	21.7
1 12	9 43.37	+18 37.9	1.792	2.681	11.0	21.5
1 22	9 36.09	+19 16.0	1.743	2.691	7.0	21.3
2 1	9 27.07	+19 56.0	1.721	2.700	2.9	21.0
2 11	9 17.36	+20 32.1	1.728	2.710	2.7	21.0
2 21	9 8.12	+20 59.5	1.764	2.719	6.7	21.3
3 2	9 0.42	+21 15.2	1.827	2.728	10.6	21.6
3 12	8 55.02	+21 18.4	1.913	2.737	13.9	21.8

276605 2003 UN_{30} 2 7.4 253°.47 0°.4/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.32	+13 13.4	2.089	2.883	13.6	20.7
1 12	9 41.72	+13 19.7	2.002	2.882	10.5	20.5
1 22	9 34.96	+13 35.5	1.938	2.881	6.9	20.2
2 1	9 26.62	+13 57.7	1.901	2.879	2.8	20.0
2 11	9 17.59	+14 22.6	1.894	2.878	1.5	19.9
2 21	9 8.86	+14 46.1	1.915	2.877	5.6	20.2
3 2	9 1.38	+15 4.8	1.965	2.876	9.4	20.4
3 12	8 55.89	+15 16.5	2.039	2.875	12.7	20.6

522679 2016 HJ_{25} 2 7.4 101.°66 4.°7/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 43.26	− 1 7.1	2.310	3.045	14.2	21.4
1 12	9 39.11	− 1 13.1	2.226	3.054	11.7	21.3
1 22	9 33.14	− 1 1.5	2.163	3.064	8.9	21.1
2 1	9 25.86	− 0 32.2	2.126	3.073	6.1	21.0
2 11	9 18.03	+ 0 12.5	2.118	3.082	4.7	20.9
2 21	9 10.47	+ 1 8.4	2.138	3.091	5.9	21.0
3 2	9 3.96	+ 2 10.3	2.187	3.100	8.5	21.1
3 12	8 59.13	+ 3 12.9	2.261	3.109	11.2	21.3

19852 Jamesalbers 2 7.4 232.°40 6.°9/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.57	+38 29.6	2.770	3.566	10.5	17.2
1 12	9 43.40	+39 46.9	2.694	3.557	8.8	17.1
1 22	9 36.05	+40 58.3	2.645	3.547	7.3	17.0
2 1	9 27.07	+41 56.9	2.623	3.538	6.9	17.0
2 11	9 17.34	+42 37.1	2.629	3.528	7.7	17.0
2 21	9 7.86	+42 55.7	2.662	3.517	9.3	17.1
3 2	8 59.61	+42 52.3	2.720	3.507	11.2	17.2
3 12	8 53.35	+42 29.3	2.798	3.496	13.0	17.3

84280 2002 TZ_{20} 2 7.4 81.°13 2.°0/ 5.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.39	+19 10.0	2.175	2.982	12.7	19.9
1 12	9 40.92	+19 51.1	2.101	2.991	9.6	19.7
1 22	9 34.38	+20 38.1	2.052	3.000	6.1	19.5
2 1	9 26.37	+21 25.9	2.031	3.009	2.7	19.3
2 11	9 17.77	+22 9.2	2.039	3.018	2.9	19.3
2 21	9 9.54	+22 43.5	2.076	3.027	6.2	19.6
3 2	9 2.57	+23 5.9	2.141	3.036	9.6	19.8
3 12	8 57.54	+23 15.6	2.230	3.045	12.5	20.0

379198 2009 SD_{52} 2 7.4 232.°76 5.°5/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.57	− 0 5.6	2.118	2.855	15.2	21.2
1 12	9 42.74	− 0 44.2	2.016	2.846	12.6	21.0
1 22	9 35.70	− 1 6.6	1.936	2.837	9.7	20.8
2 1	9 26.97	− 1 11.4	1.882	2.827	6.9	20.6
2 11	9 17.39	− 0 59.1	1.855	2.817	5.5	20.5
2 21	9 7.95	− 0 32.4	1.857	2.806	6.9	20.6
3 2	8 59.64	+ 0 4.4	1.887	2.796	9.9	20.8
3 12	8 53.29	+ 0 45.9	1.941	2.784	13.0	20.9

243102 2007 RA_{48} 2 7.4 258.°17 1.°1/ 8.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.47	+ 9 50.8	2.255	3.039	13.0	20.9
1 12	9 39.42	+10 8.8	2.164	3.036	10.2	20.7
1 22	9 33.43	+10 38.9	2.096	3.033	6.8	20.5
2 1	9 26.02	+11 18.5	2.055	3.030	3.1	20.3
2 11	9 17.95	+12 3.7	2.043	3.028	1.6	20.2
2 21	9 10.10	+12 49.8	2.061	3.025	5.1	20.4
3 2	9 3.32	+13 32.7	2.108	3.022	8.7	20.6
3 12	8 58.31	+14 8.8	2.179	3.019	11.9	20.8

496304 2013 EJ_{95} 2 7.4 256.°15 1.°4/ 6.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.18	+16 49.0	1.762	2.569	15.2	22.3
1 12	9 44.57	+17 19.6	1.665	2.554	11.7	22.1
1 22	9 37.20	+18 0.5	1.591	2.538	7.6	21.8
2 1	9 27.65	+18 46.6	1.543	2.522	3.1	21.5
2 11	9 16.99	+19 31.2	1.524	2.506	2.7	21.4
2 21	9 6.51	+20 8.1	1.533	2.490	7.3	21.6
3 2	8 57.52	+20 33.0	1.568	2.473	11.8	21.9
3 12	8 51.05	+20 44.0	1.627	2.455	15.8	22.1

281798 2009 VP_{39} 2 7.4 76.°14 2.°4/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.42	+19 23.2	1.912	2.724	13.9	20.6
1 12	9 42.01	+20 9.5	1.838	2.731	10.6	20.4
1 22	9 35.24	+21 2.7	1.789	2.737	6.8	20.2
2 1	9 26.76	+21 56.9	1.766	2.744	3.1	19.9
2 11	9 17.56	+22 45.5	1.772	2.750	3.4	20.0
2 21	9 8.77	+23 23.2	1.806	2.757	7.0	20.2
3 2	9 1.43	+23 46.9	1.868	2.763	10.7	20.4
3 12	8 56.32	+23 55.7	1.952	2.770	13.9	20.7

330826 2009 BV_{59} 2 7.4 307.°67 1.°9/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.95	+ 9 35.8	1.446	2.253	17.9	21.4
1 12	9 42.48	+ 9 36.6	1.357	2.242	14.2	21.1
1 22	9 36.03	+ 9 54.8	1.288	2.230	9.6	20.8
2 1	9 27.23	+10 28.2	1.243	2.219	4.6	20.5
2 11	9 17.24	+11 11.8	1.224	2.209	2.4	20.3
2 21	9 7.49	+11 58.8	1.232	2.198	7.3	20.6
3 2	8 59.43	+12 42.6	1.265	2.189	12.4	20.8
3 12	8 54.16	+13 17.9	1.319	2.179	16.9	21.1

169209 2001 RS_{101} 2 7.4 132.°91 1.°1/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.65	+ 8 29.8	2.495	3.269	12.2	20.3
1 12	9 38.57	+ 9 6.7	2.409	3.276	9.5	20.1
1 22	9 32.77	+ 9 56.3	2.347	3.282	6.3	19.9
2 1	9 25.73	+10 55.5	2.313	3.288	2.9	19.7
2 11	9 18.15	+12 0.0	2.309	3.294	1.4	19.6
2 21	9 10.80	+13 4.9	2.336	3.299	4.6	19.8
3 2	9 4.41	+14 5.7	2.393	3.305	7.9	20.0
3 12	8 59.60	+14 58.8	2.475	3.310	10.8	20.2

429911 2012 TG_{148} 2 7.4 132.°22 0.°7/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.56	+16 56.8	2.404	3.198	12.0	21.8
1 12	9 41.60	+17 6.5	2.319	3.201	9.2	21.6
1 22	9 34.73	+17 21.9	2.259	3.204	5.9	21.4
2 1	9 26.51	+17 39.6	2.227	3.206	2.3	21.1
2 11	9 17.72	+17 56.1	2.225	3.209	1.7	21.1
2 21	9 9.24	+18 8.3	2.254	3.212	5.2	21.3
3 2	9 1.90	+18 13.8	2.311	3.214	8.6	21.5
3 12	8 56.34	+18 11.7	2.393	3.216	11.5	21.7

151022 2001 UH_{126} 2 7.4 93.°49 0.°9/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.84	+ 8 49.0	1.874	2.662	15.1	20.5
1 12	9 40.75	+ 9 36.3	1.798	2.674	11.7	20.3
1 22	9 34.41	+10 40.2	1.745	2.685	7.7	20.1
2 1	9 26.43	+11 56.3	1.719	2.696	3.4	19.9
2 11	9 17.76	+13 18.1	1.722	2.707	1.6	19.7
2 21	9 9.45	+14 38.3	1.755	2.718	5.8	20.1
3 2	9 2.50	+15 50.6	1.815	2.729	9.9	20.3
3 12	8 57.66	+16 50.5	1.899	2.739	13.4	20.6

68335 2001 KQ_{9} 2 7.4 151.°20 0.°1/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.62	+12 41.8	1.820	2.612	15.4	20.0
1 12	9 45.27	+13 20.9	1.742	2.622	11.8	19.8
1 22	9 37.38	+14 13.2	1.688	2.631	7.6	19.6
2 1	9 27.63	+15 13.7	1.660	2.639	3.0	19.3
2 11	9 17.08	+16 15.7	1.662	2.647	1.8	19.2
2 21	9 6.94	+17 12.8	1.694	2.654	6.4	19.6
3 2	8 58.35	+17 59.9	1.753	2.660	10.6	19.8
3 12	8 52.16	+18 34.3	1.836	2.665	14.2	20.1

95661 2002 GX_{125} 2 7.4 28.°11 2.°6/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.87	+ 7 6.8	1.630	2.424	16.8	19.6
1 12	9 40.31	+ 7 10.2	1.556	2.431	13.3	19.4
1 22	9 34.26	+ 7 31.2	1.503	2.438	9.1	19.1
2 1	9 26.40	+ 8 7.8	1.474	2.446	4.8	18.9
2 11	9 17.78	+ 8 55.2	1.473	2.455	2.8	18.8
2 21	9 9.58	+ 9 47.3	1.499	2.465	6.3	19.0
3 2	9 2.90	+10 37.9	1.551	2.474	10.5	19.3
3 12	8 58.57	+11 21.8	1.626	2.485	14.3	19.5

423144 2004 DR_{62} 2 7.4 331.°71 1.°7/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 40.80	+ 7 23.7	1.947	2.736	14.6	20.9
1 12	9 37.76	+ 7 54.7	1.852	2.726	11.5	20.6
1 22	9 32.57	+ 8 43.0	1.780	2.717	7.9	20.4
2 1	9 25.75	+ 9 45.9	1.734	2.708	3.9	20.1
2 11	9 18.14	+10 58.4	1.716	2.700	2.0	20.0
2 21	9 10.70	+12 13.8	1.727	2.692	5.7	20.2
3 2	9 4.43	+13 25.7	1.765	2.685	9.7	20.4
3 12	9 0.12	+14 28.8	1.827	2.678	13.3	20.6

262650 2006 WN_{61} 2 7.4 213.°88 1.°2/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.64	+ 9 43.4	2.035	2.818	14.3	20.6
1 12	9 42.11	+10 2.9	1.941	2.813	11.2	20.4
1 22	9 35.32	+10 36.0	1.870	2.808	7.5	20.1
2 1	9 26.84	+11 20.0	1.826	2.802	3.4	19.9
2 11	9 17.54	+12 10.3	1.811	2.795	1.7	19.7
2 21	9 8.46	+13 1.6	1.825	2.789	5.7	20.0
3 2	9 0.60	+13 48.9	1.868	2.781	9.7	20.2
3 12	8 54.78	+14 28.3	1.935	2.774	13.2	20.4

488638 2003 AJ_{79} 2 7.4 356.°85 14.°7/24.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 41.75	+34 59.0	1.040	1.903	19.3	19.5
1 12	9 41.27	+39 18.0	0.995	1.898	16.3	19.3
1 22	9 36.43	+43 35.0	0.974	1.894	14.8	19.2
2 1	9 27.73	+47 21.9	0.977	1.892	15.4	19.2
2 11	9 16.93	+50 15.0	1.003	1.891	17.9	19.3
2 21	9 6.52	+52 3.3	1.047	1.892	21.0	19.5
3 2	8 59.07	+52 48.6	1.107	1.894	24.0	19.7
3 12	8 56.26	+52 41.4	1.179	1.897	26.5	19.9

427000 2014 QN_{368} 2 7.4 115.°89 4.°0/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.92	+23 22.6	1.954	2.767	13.7	21.4
1 12	9 43.92	+24 35.9	1.889	2.781	10.4	21.2
1 22	9 36.47	+25 53.3	1.849	2.794	6.9	21.0
2 1	9 27.27	+27 6.9	1.837	2.807	4.3	20.8
2 11	9 17.37	+28 9.0	1.853	2.820	5.0	20.9
2 21	9 7.93	+28 54.1	1.899	2.832	8.1	21.1
3 2	9 0.02	+29 19.9	1.970	2.844	11.4	21.3
3 12	8 54.43	+29 27.1	2.065	2.855	14.2	21.6

291669 2006 HV_{74} 2 7.4 62.°27 4.°9/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.78	+23 7.4	1.445	2.275	16.7	20.2
1 12	9 44.60	+24 24.3	1.384	2.284	12.8	20.0
1 22	9 37.29	+25 47.4	1.345	2.294	8.5	19.7
2 1	9 27.68	+27 6.4	1.331	2.304	5.2	19.6
2 11	9 17.14	+28 10.9	1.345	2.313	6.1	19.6
2 21	9 7.22	+28 53.7	1.384	2.323	9.9	19.9
3 2	8 59.35	+29 12.2	1.448	2.333	13.9	20.1
3 12	8 54.46	+29 8.1	1.532	2.343	17.4	20.4

192859 1999 VB_{213} 2 7.4 99°.95 0°.6/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 45.60	+11 33.3	2.083	2.872	13.8	21.3
1 12	9 41.12	+11 52.8	2.004	2.881	10.6	21.1
1 22	9 34.55	+12 23.6	1.948	2.889	7.0	20.9
2 1	9 26.49	+13 2.6	1.920	2.898	3.0	20.6
2 11	9 17.81	+13 45.1	1.921	2.906	1.4	20.5
2 21	9 9.47	+14 26.4	1.951	2.914	5.4	20.8
3 2	9 2.38	+15 2.5	2.010	2.922	9.2	21.1
3 12	8 57.25	+15 30.4	2.093	2.930	12.4	21.3

479315 2013 PS_6 2 7.4 84°.22 4°.4/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.90	− 4 47.3	1.097	1.872	24.4	20.6
1 12	9 43.05	− 3 2.2	1.024	1.882	20.0	20.3
1 22	9 36.70	− 0 25.0	0.969	1.892	14.5	20.0
2 1	9 27.58	+ 3 0.6	0.936	1.902	8.4	19.7
2 11	9 17.15	+ 6 58.6	0.930	1.911	4.4	19.5
2 21	9 7.20	+11 3.9	0.952	1.921	8.4	19.8
3 2	8 59.45	+14 51.3	1.001	1.931	14.2	20.1
3 12	8 55.11	+18 3.6	1.074	1.940	19.4	20.5

148574 2001 QK_{269} 2 7.4 54°.37 1°.8/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 56.04	+20 53.3	1.557	2.367	16.7	19.1
1 12	9 49.53	+20 38.4	1.497	2.386	12.7	18.9
1 22	9 40.09	+20 26.4	1.458	2.406	8.2	18.7
2 1	9 28.66	+20 12.5	1.446	2.425	3.4	18.5
2 11	9 16.67	+19 52.7	1.463	2.445	2.9	18.5
2 21	9 5.57	+19 24.8	1.508	2.465	7.3	18.8
3 2	8 56.60	+18 48.8	1.579	2.486	11.6	19.1
3 12	8 50.55	+18 6.0	1.674	2.506	15.2	19.4

328358 2008 OE_3 2 7.4 149°.43 3°.1/10.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.44	+ 1 57.3	2.711	3.448	12.2	21.5
1 12	9 39.75	+ 2 12.6	2.622	3.459	9.9	21.3
1 22	9 33.46	+ 2 42.5	2.557	3.469	7.2	21.2
2 1	9 26.02	+ 3 25.6	2.520	3.478	4.4	21.0
2 11	9 18.09	+ 4 19.0	2.513	3.487	3.1	20.9
2 21	9 10.38	+ 5 18.7	2.536	3.495	4.7	21.0
3 2	9 3.58	+ 6 20.4	2.590	3.502	7.4	21.2
3 12	8 58.26	+ 7 19.7	2.670	3.509	10.0	21.4

225391 1999 UK_{29} 2 7.4 204°.03 2°.6/ 5.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.22	+21 16.1	2.320	3.124	12.1	21.5
1 12	9 42.34	+22 0.1	2.233	3.121	9.2	21.3
1 22	9 35.37	+22 48.7	2.171	3.117	6.0	21.1
2 1	9 26.84	+23 36.8	2.137	3.113	3.1	20.9
2 11	9 17.62	+24 18.8	2.134	3.108	3.4	20.9
2 21	9 8.66	+24 50.3	2.160	3.104	6.5	21.1
3 2	9 0.88	+25 8.9	2.213	3.098	9.8	21.3
3 12	8 55.02	+25 13.9	2.291	3.093	12.7	21.5

432549 2010 JE_{43} 2 7.4 233°.26 3°.5/11.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 41.76	− 0 5.3	2.957	3.684	11.5	21.9
1 12	9 37.73	+ 0 7.2	2.845	3.672	9.5	21.7
1 22	9 32.20	+ 0 34.3	2.757	3.660	7.1	21.5
2 1	9 25.55	+ 1 15.6	2.696	3.647	4.7	21.4
2 11	9 18.34	+ 2 8.9	2.665	3.634	3.5	21.3
2 21	9 11.22	+ 3 10.8	2.664	3.620	4.7	21.3
3 2	9 4.84	+ 4 17.1	2.694	3.606	7.1	21.5
3 12	8 59.74	+ 5 23.3	2.750	3.592	9.6	21.6

879 Ricarda 2 7.4 120°.15 5°.9/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.50	− 0 50.7	1.996	2.730	16.1	15.6
1 12	9 44.12	− 1 33.2	1.917	2.743	13.4	15.4
1 22	9 36.51	− 1 57.6	1.859	2.756	10.2	15.2
2 1	9 27.29	− 2 2.8	1.826	2.769	7.3	15.1
2 11	9 17.40	− 1 49.7	1.821	2.781	5.9	15.0
2 21	9 7.88	− 1 21.6	1.845	2.792	7.1	15.1
3 2	8 59.71	− 0 43.2	1.896	2.803	9.9	15.3
3 12	8 53.63	− 0 0.5	1.971	2.814	12.8	15.5

385111 2012 VX_{105} 2 7.4 179°.92 4°.1/ 3.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.47	+27 42.6	2.602	3.409	10.8	21.5
1 12	9 41.59	+28 34.6	2.524	3.409	8.4	21.4
1 22	9 34.78	+29 26.5	2.472	3.410	5.9	21.2
2 1	9 26.58	+30 12.6	2.448	3.410	4.2	21.1
2 11	9 17.80	+30 48.0	2.454	3.410	4.8	21.1
2 21	9 9.30	+31 9.2	2.489	3.409	7.1	21.3
3 2	9 1.93	+31 14.8	2.551	3.409	9.6	21.4
3 12	8 56.36	+31 5.6	2.637	3.408	12.0	21.6

81903 2000 MM_3 2 7.4 247°.93 5°.6/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.99	− 0 0.4	2.053	2.794	15.5	19.0
1 12	9 42.41	− 0 36.9	1.951	2.783	12.9	18.8
1 22	9 35.58	− 0 56.6	1.869	2.772	9.9	18.6
2 1	9 27.00	− 0 58.0	1.813	2.760	7.0	18.4
2 11	9 17.53	− 0 41.9	1.785	2.748	5.6	18.3
2 21	9 8.18	− 0 11.0	1.785	2.735	7.0	18.4
3 2	8 59.98	+ 0 30.1	1.812	2.723	10.1	18.5
3 12	8 53.78	+ 1 15.5	1.864	2.710	13.3	18.7

319080 2005 WF_{98} 2 7.4 156°.31 1°.2/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.21	+16 25.9	2.151	2.950	13.1	21.7
1 12	9 42.38	+17 5.8	2.070	2.955	10.0	21.5
1 22	9 35.40	+17 54.1	2.014	2.960	6.4	21.3
2 1	9 26.87	+18 46.0	1.985	2.964	2.6	21.0
2 11	9 17.67	+19 36.0	1.986	2.968	2.2	21.0
2 21	9 8.78	+20 19.0	2.017	2.972	6.0	21.3
3 2	9 1.15	+20 51.5	2.076	2.975	9.6	21.5
3 12	8 55.52	+21 12.0	2.159	2.978	12.7	21.7

347612 2001 RP_{135} 2 7.4 68°.33 6°.7/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.44	+30 56.8	1.680	2.499	15.3	20.1
1 12	9 47.75	+31 53.6	1.626	2.515	12.0	19.9
1 22	9 39.07	+32 46.4	1.595	2.530	8.8	19.7
2 1	9 28.32	+33 25.9	1.590	2.546	6.8	19.6
2 11	9 16.91	+33 44.7	1.612	2.562	7.5	19.7
2 21	9 6.31	+33 39.6	1.661	2.578	10.2	19.9
3 2	8 57.80	+33 11.8	1.734	2.594	13.3	20.1
3 12	8 52.19	+32 25.1	1.828	2.610	16.1	20.4

415695 1996 GE_2 2 7.4 165°.27 10°.6/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 6.35	+50 55.7	2.455	3.204	13.1	20.8
1 12	9 57.61	+52 15.3	2.407	3.210	11.7	20.8
1 22	9 45.45	+53 18.4	2.381	3.216	10.8	20.7
2 1	9 30.87	+53 55.5	2.380	3.220	10.7	20.7
2 11	9 15.49	+54 0.5	2.404	3.224	11.3	20.7
2 21	9 1.08	+53 32.4	2.452	3.228	12.5	20.8
3 2	8 49.14	+52 34.7	2.523	3.230	14.0	21.0
3 12	8 40.59	+51 14.3	2.611	3.232	15.3	21.1

54189 2000 HQ_{75} 2 7.4 203°.58 0°.1/ 7.3 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.06	+13 41.6	2.498	3.287	11.8	20.2
1 12	9 39.73	+14 11.1	2.406	3.284	9.0	20.0
1 22	9 33.60	+14 49.5	2.339	3.282	5.8	19.8
2 1	9 26.14	+15 33.5	2.300	3.279	2.3	19.5
2 11	9 18.08	+16 18.8	2.291	3.276	1.4	19.5
2 21	9 10.23	+17 1.4	2.313	3.273	5.0	19.7
3 2	9 3.36	+17 37.6	2.363	3.269	8.3	19.9
3 12	8 58.14	+18 5.2	2.439	3.265	11.2	20.1

423426 2005 QM_6 2 7.4 255°.25 3°.5/ 4.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.63	+27 33.9	2.810	3.605	10.4	21.2
1 12	9 44.69	+27 56.9	2.706	3.586	8.1	21.0
1 22	9 36.78	+28 18.8	2.629	3.566	5.6	20.8
2 1	9 27.41	+28 35.1	2.581	3.547	3.7	20.7
2 11	9 17.37	+28 41.5	2.564	3.526	4.1	20.7
2 21	9 7.54	+28 35.6	2.577	3.506	6.5	20.8
3 2	8 58.77	+28 16.4	2.619	3.485	9.2	20.9
3 12	8 51.77	+27 44.9	2.686	3.463	11.7	21.1

270576 2002 JQ_{81} 2 7.4 281°.03 5°.2/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.36	+28 9.0	2.014	2.828	13.3	20.9
1 12	9 44.56	+29 1.0	1.922	2.811	10.4	20.7
1 22	9 37.12	+29 53.6	1.854	2.794	7.4	20.5
2 1	9 27.66	+30 39.4	1.813	2.776	5.3	20.3
2 11	9 17.21	+31 11.2	1.801	2.759	6.1	20.4
2 21	9 7.02	+31 24.1	1.816	2.741	9.0	20.5
3 2	8 58.30	+31 16.6	1.857	2.723	12.3	20.7
3 12	8 51.99	+30 50.2	1.920	2.706	15.3	20.8

282195 2001 UD_7 2 7.4 184°.74 2°.7/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.45	+ 4 53.6	2.228	2.981	14.1	22.2
1 12	9 44.02	+ 5 6.7	2.133	2.982	11.3	22.0
1 22	9 36.47	+ 5 35.3	2.060	2.982	7.9	21.8
2 1	9 27.32	+ 6 18.0	2.014	2.981	4.5	21.6
2 11	9 17.42	+ 7 10.9	1.999	2.979	2.8	21.5
2 21	9 7.73	+ 8 9.4	2.014	2.975	5.5	21.6
3 2	8 59.20	+ 9 8.0	2.059	2.971	9.0	21.8
3 12	8 52.58	+10 2.2	2.130	2.965	12.3	22.0

330980 2009 TD_{21} 2 7.4 87°.65 2°.0/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.96	+17 48.6	1.900	2.711	14.1	20.8
1 12	9 41.71	+18 41.1	1.825	2.717	10.7	20.6
1 22	9 35.11	+19 42.5	1.774	2.723	6.8	20.3
2 1	9 26.79	+20 46.7	1.750	2.729	3.0	20.1
2 11	9 17.74	+21 46.7	1.755	2.734	3.1	20.1
2 21	9 9.05	+22 36.6	1.788	2.740	6.9	20.4
3 2	9 1.79	+23 12.5	1.849	2.746	10.7	20.6
3 12	8 56.73	+23 33.0	1.932	2.752	14.0	20.8

96157 1978 UV_4 2 7.4 130°.23 0°.8/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.20	+10 53.4	1.913	2.697	15.0	20.5
1 12	9 44.76	+11 14.5	1.839	2.712	11.6	20.3
1 22	9 36.97	+11 48.4	1.787	2.726	7.6	20.1
2 1	9 27.50	+12 31.5	1.763	2.740	3.3	19.8
2 11	9 17.37	+13 18.6	1.768	2.753	1.6	19.7
2 21	9 7.67	+14 4.3	1.803	2.766	5.8	20.1
3 2	8 59.46	+14 43.9	1.866	2.777	9.8	20.3
3 12	8 53.48	+15 14.7	1.954	2.788	13.3	20.6

399507 2002 VL_3 2 7.4 89°.85 0°.6/ 7.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.47	+15 17.7	1.854	2.650	15.0	21.6
1 12	9 45.65	+15 41.7	1.795	2.677	11.4	21.4
1 22	9 37.46	+16 14.5	1.759	2.704	7.3	21.2
2 1	9 27.65	+16 51.4	1.750	2.730	2.8	21.0
2 11	9 17.33	+17 26.9	1.771	2.755	1.9	21.0
2 21	9 7.64	+17 56.2	1.821	2.780	6.2	21.3
3 2	8 59.58	+18 16.4	1.899	2.804	10.0	21.6
3 12	8 53.87	+18 26.3	2.001	2.828	13.3	21.8

456695 2007 RT_{212} 2 7.4 101°.57 2°.5/ 9.1 18

1 2	9 50.35	+ 7 13.0	1.764	2.540	16.4	21.6
1 12	9 44.95	+ 7 16.3	1.697	2.562	12.9	21.4
1 22	9 37.11	+ 7 35.6	1.651	2.583	8.8	21.2
2 1	9 27.56	+ 8 8.5	1.632	2.603	4.6	21.0
2 11	9 17.38	+ 8 50.4	1.641	2.623	2.6	21.0
2 21	9 7.73	+ 9 35.9	1.679	2.642	6.1	21.2
3 2	8 59.70	+10 19.5	1.745	2.661	10.0	21.5
3 12	8 54.01	+10 57.1	1.834	2.679	13.6	21.7

16779 Mittelman 2 7.4 176°.87 5°.0/11.6 18

1 2	9 46.18	− 1 55.9	2.492	3.210	13.6	18.6
1 12	9 41.30	− 2 17.1	2.396	3.212	11.3	18.4
1 22	9 34.59	− 2 22.1	2.323	3.214	8.8	18.3
2 1	9 26.55	− 2 10.3	2.276	3.215	6.3	18.1
2 11	9 17.90	− 1 43.0	2.258	3.216	5.0	18.0
2 21	9 9.44	− 1 3.1	2.269	3.216	6.1	18.1
3 2	9 1.96	− 0 15.0	2.309	3.215	8.4	18.2
3 12	8 56.11	+ 0 36.5	2.375	3.214	11.1	18.4

157193 2004 QU_5 2 7.4 132°.56 2°.5/ 9.2 18

1 2	9 45.73	+ 6 55.5	2.014	2.789	14.7	20.2
1 12	9 41.35	+ 6 55.3	1.928	2.792	11.6	20.0
1 22	9 34.81	+ 7 9.6	1.864	2.795	8.1	19.8
2 1	9 26.68	+ 7 36.7	1.827	2.797	4.4	19.5
2 11	9 17.84	+ 8 13.3	1.818	2.800	2.6	19.4
2 21	9 9.30	+ 8 54.8	1.838	2.802	5.6	19.6
3 2	9 2.00	+ 9 36.3	1.886	2.804	9.3	19.8
3 12	8 56.70	+10 13.7	1.959	2.806	12.7	20.1

365762 2010 XZ_8 2 7.4 152°.01 1°.1/ 8.4 18

1 2	9 47.18	+ 9 18.9	2.399	3.170	12.7	21.5
1 12	9 42.08	+ 9 47.3	2.315	3.180	9.9	21.3
1 22	9 35.09	+10 27.6	2.255	3.190	6.6	21.1
2 1	9 26.74	+11 16.8	2.224	3.199	3.0	20.9
2 11	9 17.83	+12 10.8	2.223	3.207	1.5	20.8
2 21	9 9.19	+13 4.7	2.253	3.215	4.9	21.0
3 2	9 1.64	+13 54.4	2.312	3.221	8.3	21.2
3 12	8 55.84	+14 36.7	2.398	3.228	11.3	21.4

461693 2005 QX_{83} 2 7.4 180°.11 10°.1/30.8 18

1 2	10 8.90	+48 42.6	2.388	3.141	13.3	21.5
1 12	9 59.39	+49 43.0	2.328	3.142	11.7	21.4
1 22	9 46.51	+50 27.3	2.291	3.143	10.5	21.4
2 1	9 31.29	+50 46.2	2.279	3.143	10.1	21.3
2 11	9 15.38	+50 33.3	2.294	3.143	10.7	21.4
2 21	9 0.52	+49 47.8	2.334	3.142	12.1	21.5
3 2	8 48.20	+48 33.7	2.399	3.140	13.8	21.6
3 12	8 39.27	+46 58.1	2.484	3.138	15.4	21.7

96996 1999 TY_{220} 2 7.4 195°.13 2°.4/ 9.5 18

1 2	9 46.08	+ 6 5.3	2.573	3.329	12.3	20.3
1 12	9 41.19	+ 6 4.9	2.475	3.326	9.8	20.1
1 22	9 34.52	+ 6 16.4	2.400	3.323	6.9	19.9
2 1	9 26.53	+ 6 38.6	2.353	3.320	3.9	19.7
2 11	9 17.94	+ 7 9.1	2.336	3.316	2.5	19.6
2 21	9 9.52	+ 7 44.4	2.350	3.311	4.8	19.8
3 2	9 2.06	+ 8 21.0	2.393	3.306	7.9	20.0
3 12	8 56.18	+ 8 55.3	2.463	3.300	10.8	20.1

250636 2005 JW_{43} 2 7.4 299°.95 2°.7/ 9.1 18

1 2	9 46.22	+ 7 20.8	1.645	2.435	16.8	20.3
1 12	9 42.29	+ 7 17.5	1.557	2.430	13.4	20.1
1 22	9 35.72	+ 7 31.3	1.490	2.425	9.3	19.8
2 1	9 27.14	+ 8 0.7	1.448	2.420	4.9	19.5
2 11	9 17.58	+ 8 41.6	1.433	2.416	2.9	19.4
2 21	9 8.31	+ 9 28.3	1.446	2.411	6.6	19.6
3 2	9 0.54	+10 14.8	1.485	2.407	11.0	19.9
3 12	8 55.21	+10 55.7	1.547	2.402	15.1	20.1

193894 2001 QH_{225} 2 7.4 75°.99 1°.7/ 6.6 17

1 2	9 53.48	+18 2.3	1.387	2.205	18.0	20.4
1 12	9 48.03	+18 19.0	1.328	2.221	13.7	20.1
1 22	9 39.40	+18 44.3	1.289	2.238	8.8	19.9
2 1	9 28.53	+19 11.9	1.276	2.255	3.6	19.6
2 11	9 16.89	+19 34.6	1.289	2.272	3.0	19.6
2 21	9 6.08	+19 47.5	1.330	2.289	7.9	20.0
3 2	8 57.46	+19 48.0	1.396	2.306	12.6	20.3
3 12	8 51.92	+19 36.1	1.484	2.322	16.5	20.6

241442 Shandongkexie 2 7.4 219°.32 2°.4/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 43.61	+19 32.4	2.339	3.146	11.9	20.6
1 12	9 39.61	+20 35.1	2.255	3.145	9.0	20.4
1 22	9 33.63	+21 44.5	2.197	3.144	5.8	20.2
2 1	9 26.21	+22 55.3	2.167	3.143	2.9	20.0
2 11	9 18.13	+24 1.3	2.167	3.142	3.3	20.0
2 21	9 10.26	+24 57.2	2.196	3.141	6.4	20.2
3 2	9 3.49	+25 39.5	2.253	3.140	9.6	20.4
3 12	8 58.50	+26 6.9	2.335	3.138	12.4	20.6

461983 2006 VW_{116} 2 7.4 42°.87 6°.3/11.3 18

1 2	9 46.25	+ 0 23.1	1.491	2.261	19.2	21.1
1 12	9 42.28	− 0 16.9	1.425	2.275	15.8	20.9
1 22	9 35.62	− 0 34.0	1.378	2.291	11.9	20.7
2 1	9 27.04	− 0 26.9	1.354	2.306	8.2	20.5
2 11	9 17.69	+ 0 2.0	1.356	2.323	6.3	20.5
2 21	9 8.88	+ 0 47.5	1.383	2.340	8.0	20.6
3 2	9 1.78	+ 1 42.3	1.436	2.357	11.4	20.8
3 12	8 57.23	+ 2 38.6	1.511	2.374	14.9	21.1

241132 2007 PN_{43} 2 7.4 168°.84 0°.7/ 6.9 18

1 2	9 48.29	+13 39.0	1.854	2.652	14.9	20.7
1 12	9 43.58	+14 27.3	1.772	2.655	11.4	20.5
1 22	9 36.40	+15 28.5	1.713	2.658	7.4	20.2
2 1	9 27.36	+16 37.5	1.681	2.661	2.9	20.0
2 11	9 17.49	+17 47.2	1.679	2.663	2.0	19.9
2 21	9 7.93	+18 50.7	1.706	2.664	6.5	20.2
3 2	8 59.82	+19 42.8	1.760	2.665	10.7	20.4
3 12	8 54.00	+20 20.7	1.838	2.665	14.3	20.7

322874 2001 VB_{73} 2 7.4 93°.36 0°.4/ 7.7 18

1 2	9 47.37	+12 12.0	1.868	2.663	14.9	21.3
1 12	9 42.69	+12 32.3	1.794	2.674	11.5	21.1
1 22	9 35.69	+13 4.5	1.744	2.686	7.5	20.9
2 1	9 27.03	+13 45.0	1.720	2.698	3.1	20.6
2 11	9 17.70	+14 28.4	1.725	2.710	1.5	20.6
2 21	9 8.81	+15 9.5	1.759	2.721	5.9	20.9
3 2	9 1.36	+15 43.9	1.820	2.733	9.9	21.1
3 12	8 56.11	+16 8.9	1.905	2.744	13.4	21.4

325259 2008 GC_{99} 2 7.4 343°.26 0°.4/ 7.7 18

1 2	9 45.75	+12 24.1	1.656	2.462	16.0	21.7
1 12	9 41.91	+12 42.9	1.573	2.460	12.4	21.5
1 22	9 35.45	+13 15.4	1.512	2.458	8.1	21.2
2 1	9 27.02	+13 57.8	1.477	2.456	3.4	20.9
2 11	9 17.68	+14 44.4	1.469	2.454	1.7	20.8
2 21	9 8.69	+15 28.9	1.488	2.452	6.6	21.1
3 2	9 1.23	+16 6.0	1.534	2.451	11.1	21.4
3 12	8 56.21	+16 32.4	1.603	2.450	15.0	21.6

276165 2002 NN_{69} 2 7.4 202°.47 2°.6/ 5.2 17

1 2	9 45.48	+20 26.7	2.195	3.004	12.5	21.0
1 12	9 41.15	+21 19.5	2.113	3.003	9.5	20.8
1 22	9 34.68	+22 18.3	2.055	3.002	6.2	20.6
2 1	9 26.65	+23 17.5	2.024	3.001	3.1	20.4
2 11	9 17.91	+24 10.9	2.024	2.999	3.5	20.5
2 21	9 9.43	+24 53.5	2.053	2.998	6.7	20.7
3 2	9 2.18	+25 22.2	2.109	2.996	10.1	20.9
3 12	8 56.88	+25 36.1	2.188	2.994	13.0	21.0

412867 2014 QF_1 2 7.4 145°.81 1°.9/ 8.7 18

1 2	9 49.56	+ 8 58.9	1.985	2.761	14.8	21.6
1 12	9 44.25	+ 8 59.6	1.903	2.770	11.6	21.4
1 22	9 36.67	+ 9 13.2	1.844	2.778	7.9	21.2
2 1	9 27.43	+ 9 37.6	1.812	2.786	3.9	21.0
2 11	9 17.49	+10 9.0	1.810	2.793	2.1	20.9
2 21	9 7.92	+10 42.8	1.837	2.799	5.7	21.1
3 2	8 59.73	+11 15.0	1.892	2.805	9.5	21.4
3 12	8 53.67	+11 41.8	1.971	2.811	13.0	21.6

57319 2001 QX_{237} 2 7.4 32°.91 6°.4/ 4.5 18

1 2	9 54.64	+30 6.9	1.473	2.298	16.7	18.7
1 12	9 49.02	+30 36.1	1.414	2.307	13.1	18.5
1 22	9 40.07	+31 0.9	1.377	2.317	9.3	18.3
2 1	9 28.80	+31 12.3	1.364	2.328	6.6	18.2
2 11	9 16.79	+31 3.4	1.378	2.339	7.2	18.3
2 21	9 5.72	+30 31.7	1.419	2.351	10.3	18.5
3 2	8 57.01	+29 39.2	1.483	2.363	14.0	18.7
3 12	8 51.51	+28 30.7	1.569	2.376	17.2	19.0

366883 2005 TJ_{14} 2 7.4 166°.69 1°.7/ 8.9 17

1 2	9 47.29	+ 8 2.6	2.454	3.219	12.6	22.2
1 12	9 42.14	+ 8 13.2	2.365	3.224	9.9	22.1
1 22	9 35.14	+ 8 35.6	2.299	3.229	6.8	21.9
2 1	9 26.79	+ 9 7.6	2.261	3.233	3.4	21.7
2 11	9 17.85	+ 9 46.1	2.254	3.237	1.9	21.5
2 21	9 9.15	+10 26.9	2.278	3.240	4.8	21.8
3 2	9 1.51	+11 6.4	2.331	3.242	8.1	22.0
3 12	8 55.57	+11 41.2	2.410	3.243	11.1	22.2

496377 2013 SQ_{59} 2 7.4 151.°85 2.°4/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.08	+ 5 32.9	2.529	3.284	12.6	22.7
1 12	9 41.14	+ 5 40.6	2.442	3.293	10.0	22.6
1 22	9 34.45	+ 6 1.1	2.379	3.302	7.0	22.4
2 1	9 26.50	+ 6 32.9	2.343	3.310	3.9	22.2
2 11	9 18.01	+ 7 12.9	2.338	3.317	2.5	22.1
2 21	9 9.78	+ 7 57.3	2.363	3.324	4.7	22.3
3 2	9 2.56	+ 8 42.2	2.418	3.330	7.8	22.5
3 12	8 56.95	+ 9 23.9	2.499	3.336	10.6	22.7

347816 2002 NN_{66} 2 7.4 152.°86 0.°5/ 7.1 18

1 2	9 52.28	+14 5.1	1.743	2.539	15.8	22.2
1 12	9 46.70	+14 39.4	1.667	2.548	12.1	22.0
1 22	9 38.43	+15 25.6	1.613	2.557	7.8	21.7
2 1	9 28.17	+16 18.8	1.586	2.565	3.1	21.5
2 11	9 17.08	+17 12.0	1.588	2.572	2.0	21.4
2 21	9 6.44	+17 59.0	1.619	2.578	6.7	21.7
3 2	8 57.47	+18 35.3	1.678	2.584	11.1	22.0
3 12	8 51.03	+18 58.8	1.761	2.588	14.8	22.2

420022 2011 CC_{87} 2 7.4 282.°61 0.°0/ 7.3 17

1 2	9 46.85	+14 9.3	1.944	2.743	14.3	21.2
1 12	9 42.40	+14 19.6	1.854	2.737	11.0	21.0
1 22	9 35.61	+14 39.6	1.787	2.731	7.2	20.8
2 1	9 27.06	+15 6.0	1.747	2.726	2.9	20.5
2 11	9 17.70	+15 34.2	1.735	2.720	1.6	20.4
2 21	9 8.61	+15 59.8	1.752	2.714	6.0	20.7
3 2	9 0.86	+16 19.0	1.797	2.709	10.1	20.9
3 12	8 55.26	+16 29.6	1.866	2.703	13.7	21.1

209022 2003 ED_{15} 2 7.4 335.°05 2.°2/ 6.3 18

1 2	9 53.14	+23 1.7	2.114	2.914	13.2	19.5
1 12	9 46.97	+22 48.5	2.024	2.908	10.2	19.3
1 22	9 38.41	+22 35.1	1.958	2.903	6.6	19.1
2 1	9 28.12	+22 17.8	1.921	2.898	3.1	18.8
2 11	9 17.14	+21 53.1	1.914	2.893	2.9	18.8
2 21	9 6.60	+21 19.3	1.937	2.889	6.5	19.0
3 2	8 57.56	+20 36.5	1.989	2.885	10.1	19.2
3 12	8 50.79	+19 45.9	2.065	2.881	13.3	19.4

522461 2016 CK_{321} 2 7.4 246.°94 5.°1/10.7 17

1 2	9 47.14	+ 1 14.1	2.123	2.868	15.0	20.9
1 12	9 42.44	+ 0 36.0	2.023	2.859	12.4	20.6
1 22	9 35.57	+ 0 13.0	1.945	2.851	9.4	20.4
2 1	9 27.04	+ 0 6.5	1.892	2.842	6.5	20.2
2 11	9 17.70	+ 0 15.5	1.867	2.833	5.1	20.1
2 21	9 8.51	+ 0 37.6	1.871	2.824	6.6	20.2
3 2	9 0.45	+ 1 8.7	1.903	2.814	9.7	20.4
3 12	8 54.32	+ 1 43.6	1.959	2.805	12.8	20.6

27609 2001 KO_{13} 2 7.4 149.°90 1.°1/ 6.4 18

1 2	9 48.27	+16 17.4	2.479	3.267	11.9	20.0
1 12	9 42.89	+17 2.7	2.400	3.279	9.0	19.8
1 22	9 35.61	+17 55.4	2.347	3.291	5.7	19.6
2 1	9 26.97	+18 50.9	2.322	3.301	2.3	19.4
2 11	9 17.78	+19 44.3	2.329	3.311	2.0	19.4
2 21	9 8.88	+20 31.0	2.367	3.320	5.4	19.6
3 2	9 1.11	+21 7.8	2.434	3.328	8.6	19.8
3 12	8 55.10	+21 33.4	2.526	3.335	11.4	20.0

297438 2000 SJ_{174} 2 7.4 123.°62 4.°4/10.7 18

1 2	9 50.58	+ 1 28.4	2.029	2.771	15.6	20.9
1 12	9 44.87	+ 1 16.1	1.954	2.791	12.7	20.7
1 22	9 36.98	+ 1 21.5	1.902	2.811	9.3	20.6
2 1	9 27.54	+ 1 44.1	1.875	2.830	6.0	20.4
2 11	9 17.50	+ 2 21.3	1.877	2.848	4.4	20.3
2 21	9 7.88	+ 3 8.4	1.909	2.865	6.2	20.5
3 2	8 59.65	+ 4 0.0	1.969	2.881	9.3	20.7
3 12	8 53.50	+ 4 50.8	2.055	2.896	12.4	20.9

369074 2008 FT_{57} 2 7.4 258.°16 1.°9/ 8.9 17

1 2	9 44.69	+ 7 6.4	1.935	2.716	15.0	21.8
1 12	9 40.85	+ 7 34.5	1.836	2.704	11.9	21.6
1 22	9 34.70	+ 8 20.2	1.758	2.692	8.1	21.3
2 1	9 26.75	+ 9 21.2	1.706	2.680	4.1	21.1
2 11	9 17.88	+10 32.4	1.683	2.667	2.1	20.9
2 21	9 9.14	+11 47.4	1.690	2.654	5.9	21.1
3 2	9 1.59	+12 59.3	1.723	2.641	10.1	21.3
3 12	8 56.12	+14 2.8	1.782	2.628	13.8	21.5

162565 2000 RU_{31} 2 7.4 67.°66 1.°4/ 8.2 18

1 2	9 51.00	+11 15.7	1.432	2.235	18.2	19.5
1 12	9 45.99	+11 10.7	1.370	2.253	14.2	19.3
1 22	9 38.05	+11 20.2	1.328	2.271	9.4	19.0
2 1	9 28.03	+11 41.1	1.312	2.289	4.2	18.8
2 11	9 17.27	+12 7.9	1.322	2.307	2.1	18.7
2 21	9 7.21	+12 35.2	1.360	2.325	6.9	19.0
3 2	8 59.14	+12 58.1	1.423	2.343	11.6	19.3
3 12	8 53.89	+13 13.4	1.509	2.361	15.6	19.6

11363 Vives 2 7.4 115.°12 3.°8/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.15	+21 27.6	1.485	2.302	17.0	17.7
1 12	9 48.56	+22 24.9	1.423	2.317	13.0	17.5
1 22	9 39.80	+23 28.6	1.384	2.332	8.4	17.2
2 1	9 28.76	+24 29.9	1.371	2.347	4.4	17.0
2 11	9 16.86	+25 19.4	1.386	2.361	4.9	17.1
2 21	9 5.69	+25 51.0	1.428	2.374	9.0	17.4
3 2	8 56.65	+26 2.3	1.495	2.387	13.2	17.6
3 12	8 50.66	+25 54.9	1.584	2.399	16.8	17.9

259385 2003 KC_5 2 7.4 356.°30 12.°5/30.5 18

1 2	9 46.15	+38 36.1	1.202	2.048	18.4	19.6
1 12	9 43.91	+40 21.7	1.148	2.041	15.5	19.4
1 22	9 37.57	+41 56.6	1.115	2.035	13.3	19.3
2 1	9 28.05	+43 5.3	1.102	2.032	12.6	19.2
2 11	9 17.23	+43 35.0	1.112	2.030	13.8	19.3
2 21	9 7.28	+43 21.2	1.142	2.029	16.4	19.4
3 2	9 0.12	+42 26.6	1.190	2.031	19.4	19.6
3 12	8 56.86	+40 59.9	1.255	2.034	22.3	19.8

488778 2004 TD_{291} 2 7.4 175.°35 2.°9/ 9.5 18

1 2	9 48.56	+ 5 33.0	1.861	2.631	15.9	22.2
1 12	9 43.75	+ 5 40.5	1.773	2.633	12.7	22.0
1 22	9 36.51	+ 6 5.5	1.707	2.635	8.9	21.8
2 1	9 27.45	+ 6 46.2	1.668	2.636	4.9	21.5
2 11	9 17.55	+ 7 38.5	1.656	2.637	3.0	21.4
2 21	9 7.94	+ 8 36.8	1.674	2.637	6.1	21.6
3 2	8 59.71	+ 9 34.8	1.720	2.637	10.1	21.8
3 12	8 53.71	+10 27.3	1.789	2.635	13.8	22.1

498989 2009 BD_{171} 2 7.4 80.°31 0.°0/ 7.2 18

1 2	9 43.08	+12 3.6	2.251	3.043	12.8	21.6
1 12	9 39.16	+12 48.7	2.171	3.051	9.8	21.4
1 22	9 33.32	+13 45.4	2.115	3.058	6.3	21.2
2 1	9 26.12	+14 49.6	2.087	3.066	2.5	21.0
2 11	9 18.32	+15 55.9	2.089	3.074	1.4	20.9
2 21	9 10.80	+16 58.9	2.121	3.082	5.2	21.2
3 2	9 4.38	+17 54.0	2.181	3.089	8.8	21.4
3 12	8 59.72	+18 38.3	2.266	3.097	11.8	21.6

231629 2009 TH_{13} 2 7.4 262.°09 0.°9/ 6.8 18

1 2	9 45.38	+14 50.1	1.923	2.727	14.2	20.6
1 12	9 41.36	+15 31.0	1.836	2.723	10.9	20.4
1 22	9 34.99	+16 23.2	1.772	2.719	7.0	20.1
2 1	9 26.86	+17 22.1	1.735	2.715	2.7	19.9
2 11	9 17.90	+18 21.2	1.727	2.710	2.1	19.8
2 21	9 9.19	+19 14.5	1.748	2.706	6.4	20.1
3 2	9 1.81	+19 57.2	1.795	2.702	10.4	20.3
3 12	8 56.57	+20 26.8	1.867	2.698	14.0	20.5

304813 Cesarina 2 7.4 120.°07 0.°3/ 7.3 18

1 2	9 50.39	+13 27.9	1.868	2.661	15.0	22.0
1 12	9 44.99	+14 2.8	1.798	2.678	11.5	21.8
1 22	9 37.18	+14 49.0	1.752	2.695	7.4	21.6
2 1	9 27.67	+15 41.9	1.733	2.712	2.9	21.4
2 11	9 17.50	+16 35.1	1.743	2.727	1.7	21.3
2 21	9 7.81	+17 23.0	1.783	2.743	6.2	21.6
3 2	8 59.66	+18 1.3	1.850	2.757	10.2	21.9
3 12	8 53.81	+18 27.9	1.942	2.771	13.6	22.1

130006 Imranaslam 2 7.4 162.°11 2.°8/ 9.6 18

1 2	9 49.12	+ 5 31.1	2.219	2.976	14.0	20.9
1 12	9 43.73	+ 5 30.6	2.131	2.983	11.2	20.7
1 22	9 36.27	+ 5 44.1	2.067	2.990	7.9	20.5
2 1	9 27.30	+ 6 10.4	2.029	2.995	4.5	20.3
2 11	9 17.68	+ 6 46.4	2.021	3.000	2.9	20.2
2 21	9 8.34	+ 7 28.0	2.044	3.004	5.4	20.4
3 2	9 0.19	+ 8 10.6	2.095	3.008	8.8	20.6
3 12	8 53.94	+ 8 50.2	2.172	3.010	12.0	20.8

188931 2007 CB_{25} 2 7.4 35.°33 3.°0/ 9.7 18

1 2	9 42.62	+ 4 12.4	1.509	2.300	18.0	20.0
1 12	9 39.57	+ 4 44.1	1.439	2.311	14.3	19.8
1 22	9 33.95	+ 5 39.6	1.390	2.323	10.0	19.6
2 1	9 26.45	+ 6 55.8	1.364	2.335	5.4	19.4
2 11	9 18.16	+ 8 25.7	1.366	2.348	3.0	19.2
2 21	9 10.31	+10 0.1	1.395	2.362	6.5	19.5
3 2	9 4.06	+11 30.2	1.450	2.376	10.9	19.8
3 12	9 0.24	+12 48.7	1.528	2.390	14.8	20.0

79541 1998 QQ_{37} 2 7.4 213.°61 0.°5/ 7.8 18

1 2	9 51.96	+12 38.5	1.816	2.605	15.5	20.3
1 12	9 46.56	+12 47.8	1.721	2.598	12.1	20.1
1 22	9 38.47	+13 8.8	1.649	2.590	8.0	19.8
2 1	9 28.29	+13 38.3	1.603	2.581	3.4	19.5
2 11	9 17.10	+14 11.5	1.587	2.572	1.7	19.4
2 21	9 6.15	+14 43.0	1.600	2.562	6.5	19.7
3 2	8 56.69	+15 8.5	1.641	2.551	11.0	19.9
3 12	8 49.68	+15 25.3	1.705	2.540	14.9	20.1

15250 Nishiyamahiro 2 7.5 315.°38 2.°1/ 6.2 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.09	+20 33.6	1.868	2.681	14.2	18.1
1 12	9 43.61	+20 43.9	1.773	2.665	10.9	17.9
1 22	9 36.55	+20 58.6	1.702	2.650	7.1	17.6
2 1	9 27.51	+21 13.2	1.656	2.634	3.2	17.3
2 11	9 17.54	+21 22.4	1.639	2.620	3.1	17.3
2 21	9 7.84	+21 22.3	1.650	2.605	7.1	17.5
3 2	8 59.59	+21 10.8	1.688	2.591	11.2	17.7
3 12	8 53.70	+20 47.7	1.749	2.577	14.8	17.9

81673 2000 HA_{105} 2 7.5 130.°91 0.°2/ 7.7 18

1 2	9 45.02	+12 41.8	2.649	3.430	11.4	20.3
1 12	9 40.28	+13 3.8	2.568	3.441	8.7	20.1
1 22	9 33.88	+13 34.0	2.512	3.452	5.7	19.9
2 1	9 26.30	+14 9.6	2.484	3.462	2.3	19.7
2 11	9 18.26	+14 47.0	2.488	3.473	1.2	19.7
2 21	9 10.48	+15 22.6	2.522	3.483	4.5	19.9
3 2	9 3.69	+15 53.3	2.585	3.492	7.6	20.1
3 12	8 58.45	+16 17.1	2.675	3.501	10.3	20.3

70132 1999 NV_6 2 7.5 189.°34 0.°2/ 7.6 18

1 2	9 49.21	+12 31.5	2.041	2.828	14.1	20.3
1 12	9 44.09	+12 55.5	1.951	2.827	10.9	20.1
1 22	9 36.67	+13 30.9	1.885	2.826	7.1	19.9
2 1	9 27.52	+14 14.1	1.846	2.824	2.9	19.6
2 11	9 17.56	+15 0.2	1.836	2.821	1.5	19.5
2 21	9 7.87	+15 43.8	1.857	2.818	5.8	19.8
3 2	8 59.48	+16 20.7	1.906	2.814	9.8	20.0
3 12	8 53.20	+16 48.1	1.979	2.809	13.3	20.2

371192 2005 YF_{133} 2 7.5 34.°22 0.°0/ 7.3 18

1 2	9 47.64	+14 41.3	1.856	2.658	14.7	20.9
1 12	9 43.04	+14 48.6	1.775	2.660	11.3	20.7
1 22	9 36.03	+15 5.2	1.717	2.662	7.4	20.4
2 1	9 27.25	+15 27.6	1.685	2.664	2.9	20.2
2 11	9 17.72	+15 51.1	1.682	2.667	1.7	20.1
2 21	9 8.57	+16 11.4	1.707	2.669	6.1	20.4
3 2	9 0.88	+16 25.0	1.760	2.672	10.3	20.6
3 12	8 55.44	+16 30.1	1.836	2.674	13.8	20.8

290822 2005 VA_{126} 2 7.5 30.°17 2.°5/ 9.1 18

1 2	9 44.47	+ 7 20.9	1.554	2.351	17.3	21.0
1 12	9 40.95	+ 7 26.3	1.481	2.358	13.7	20.8
1 22	9 34.83	+ 7 50.0	1.429	2.366	9.4	20.6
2 1	9 26.80	+ 8 29.8	1.402	2.375	4.9	20.3
2 11	9 17.98	+ 9 20.4	1.401	2.384	2.7	20.2
2 21	9 9.59	+10 15.4	1.427	2.394	6.5	20.5
3 2	9 2.81	+11 8.0	1.479	2.404	10.9	20.7
3 12	8 58.48	+11 53.1	1.554	2.414	14.8	21.0

171379 2006 OL_9 2 7.5 171.°34 4.°4/ 2.9 18

1 2	9 46.99	+29 5.6	2.719	3.524	10.5	20.9
1 12	9 41.99	+30 6.1	2.644	3.526	8.2	20.7
1 22	9 35.08	+31 5.6	2.594	3.529	5.9	20.6
2 1	9 26.82	+31 58.6	2.574	3.530	4.5	20.5
2 11	9 17.97	+32 39.9	2.583	3.532	5.1	20.5
2 21	9 9.39	+33 6.0	2.622	3.533	7.2	20.7
3 2	9 1.91	+33 15.8	2.687	3.534	9.6	20.8
3 12	8 56.18	+33 10.0	2.776	3.534	11.8	21.0

505023 2011 QP_{34} 2 7.5 224.°42 2.°0/ 5.7 17

1 2	9 47.89	+21 52.9	2.932	3.724	10.1	21.9
1 12	9 42.47	+22 12.5	2.832	3.713	7.7	21.8
1 22	9 35.31	+22 34.3	2.759	3.703	5.0	21.6
2 1	9 26.90	+22 54.6	2.716	3.691	2.5	21.4
2 11	9 17.93	+23 10.1	2.703	3.680	2.6	21.4
2 21	9 9.14	+23 18.0	2.722	3.667	5.2	21.5
3 2	9 1.29	+23 16.7	2.770	3.655	8.0	21.7
3 12	8 54.98	+23 6.1	2.844	3.642	10.6	21.8

182123 2000 RA_{21} 2 7.5 237.°96 2.°9/ 9.9 17

1 2	9 45.68	+ 4 12.9	2.384	3.138	13.3	21.2
1 12	9 41.18	+ 4 21.7	2.274	3.122	10.7	21.0
1 22	9 34.72	+ 4 45.5	2.186	3.107	7.7	20.8
2 1	9 26.74	+ 5 23.4	2.126	3.090	4.5	20.6
2 11	9 17.98	+ 6 12.6	2.095	3.073	2.9	20.4
2 21	9 9.29	+ 7 8.8	2.094	3.055	5.3	20.6
3 2	9 1.54	+ 8 7.1	2.122	3.037	8.6	20.7
3 12	8 55.48	+ 9 2.7	2.177	3.018	11.9	20.9

371766 2007 GQ_{53} 2 7.5 18.°39 2.°2/ 9.1 18

1 2	9 44.84	+ 7 33.0	1.964	2.745	14.8	21.3
1 12	9 40.79	+ 7 40.5	1.877	2.746	11.7	21.1
1 22	9 34.54	+ 8 2.9	1.813	2.746	8.0	20.8
2 1	9 26.67	+ 8 38.3	1.774	2.746	4.2	20.6
2 11	9 18.05	+ 9 22.5	1.764	2.746	2.3	20.5
2 21	9 9.71	+10 10.7	1.782	2.747	5.6	20.7
3 2	9 2.62	+10 57.7	1.829	2.747	9.5	20.9
3 12	8 57.55	+11 38.9	1.899	2.748	13.0	21.1

188699 2005 TQ_{31} 2 7.5 291.°81 1.°5/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 44.75	+ 9 9.6	1.793	2.585	15.5	20.5
1 12	9 41.04	+ 9 28.8	1.701	2.578	12.2	20.2
1 22	9 34.89	+10 4.1	1.631	2.570	8.2	20.0
2 1	9 26.86	+10 52.6	1.587	2.562	3.9	19.7
2 11	9 17.93	+11 49.3	1.570	2.555	1.9	19.5
2 21	9 9.21	+12 48.0	1.582	2.547	6.1	19.8
3 2	9 1.83	+13 42.5	1.621	2.540	10.5	20.0
3 12	8 56.69	+14 28.0	1.683	2.533	14.4	20.3

1049 Gotho 2 7.5 94.°52 3.°2/ 5.2 18

1 2	9 50.69	+25 9.1	2.342	3.144	12.0	15.5
1 12	9 44.81	+25 29.7	2.273	3.157	9.2	15.3
1 22	9 36.86	+25 50.1	2.228	3.170	6.1	15.1
2 1	9 27.50	+26 5.7	2.211	3.183	3.5	15.0
2 11	9 17.65	+26 12.2	2.225	3.196	3.8	15.0
2 21	9 8.28	+26 7.0	2.269	3.208	6.6	15.2
3 2	9 0.29	+25 49.7	2.340	3.220	9.5	15.4
3 12	8 54.32	+25 21.3	2.436	3.232	12.1	15.6

143296 2003 AF_{36} 2 7.5 79.°11 0.°7/ 6.9 18

1 2	9 46.52	+14 7.9	1.732	2.538	15.4	19.8
1 12	9 42.34	+14 48.3	1.658	2.546	11.8	19.5
1 22	9 35.65	+15 41.2	1.607	2.554	7.6	19.3
2 1	9 27.13	+16 41.3	1.582	2.561	3.0	19.0
2 11	9 17.83	+17 41.6	1.585	2.569	2.1	19.0
2 21	9 8.94	+18 35.6	1.617	2.577	6.6	19.3
3 2	9 1.58	+19 18.4	1.675	2.584	10.9	19.6
3 12	8 56.59	+19 47.5	1.756	2.592	14.5	19.8

159369 1993 UJ_4 2 7.5 87.°70 2.°4/ 9.1 18

1 2	9 47.15	+ 6 11.6	1.553	2.341	17.7	20.0
1 12	9 42.97	+ 6 37.5	1.483	2.355	14.0	19.8
1 22	9 36.13	+ 7 24.2	1.433	2.368	9.6	19.6
2 1	9 27.33	+ 8 28.4	1.409	2.381	4.9	19.3
2 11	9 17.73	+ 9 43.5	1.412	2.395	2.6	19.2
2 21	9 8.62	+11 1.3	1.442	2.408	6.5	19.5
3 2	9 1.18	+12 14.2	1.500	2.421	11.0	19.8
3 12	8 56.27	+13 16.3	1.580	2.434	14.9	20.1

473867 2016 EG_{135} 2 7.5 106.°36 1.°6/ 8.7 18

1 2	9 45.85	+ 8 47.0	2.095	2.875	14.0	21.4
1 12	9 41.35	+ 9 1.1	2.016	2.885	11.0	21.2
1 22	9 34.78	+ 9 28.4	1.960	2.895	7.4	21.0
2 1	9 26.73	+10 6.3	1.931	2.905	3.6	20.8
2 11	9 18.08	+10 50.6	1.932	2.915	1.8	20.7
2 21	9 9.76	+11 36.5	1.961	2.925	5.3	20.9
3 2	9 2.68	+12 19.5	2.019	2.934	8.9	21.2
3 12	8 57.52	+12 56.0	2.102	2.944	12.2	21.4

179134 2001 SW_{296} 2 7.5 187.°75 0.°2/ 7.3 18

1 2	9 48.34	+14 24.4	1.955	2.752	14.3	21.0
1 12	9 43.52	+14 41.3	1.869	2.751	11.0	20.7
1 22	9 36.34	+15 7.9	1.807	2.751	7.1	20.5
2 1	9 27.41	+15 40.5	1.771	2.750	2.8	20.2
2 11	9 17.70	+16 14.3	1.765	2.749	1.7	20.1
2 21	9 8.31	+16 44.3	1.787	2.748	6.0	20.4
3 2	9 0.29	+17 7.0	1.838	2.747	10.1	20.7
3 12	8 54.46	+17 20.3	1.912	2.745	13.6	20.9

391040 2005 TV_{85} 2 7.5 234.°07 1.°6/ 6.6 18

1 2	9 51.96	+17 12.8	1.637	2.444	16.1	21.8
1 12	9 46.95	+17 40.7	1.545	2.434	12.5	21.5
1 22	9 38.95	+18 18.6	1.476	2.423	8.1	21.2
2 1	9 28.58	+19 1.2	1.433	2.412	3.3	20.9
2 11	9 17.03	+19 41.3	1.417	2.400	2.8	20.9
2 21	9 5.74	+20 12.6	1.431	2.388	7.7	21.1
3 2	8 56.14	+20 30.9	1.470	2.375	12.4	21.4
3 12	8 49.31	+20 34.8	1.531	2.361	16.5	21.6

377031 2002 RK_{270} 2 7.5 120.°02 1.°1/ 8.4 16

1 2	9 44.44	+ 9 35.4	2.329	3.108	12.8	22.1
1 12	9 40.10	+ 9 58.0	2.246	3.116	10.0	21.9
1 22	9 33.91	+10 32.5	2.187	3.124	6.6	21.7
2 1	9 26.39	+11 16.0	2.156	3.131	3.1	21.5
2 11	9 18.30	+12 4.4	2.154	3.139	1.5	21.3
2 21	9 10.49	+12 53.3	2.183	3.146	4.9	21.6
3 2	9 3.75	+13 38.5	2.240	3.153	8.3	21.8
3 12	8 58.73	+14 16.6	2.323	3.160	11.3	22.0

283094 2008 UX_{81} 2 7.5 230.°85 0.°4/ 7.1 17

1 2	9 44.95	+14 9.4	2.107	2.905	13.3	21.4
1 12	9 40.79	+14 41.5	2.021	2.904	10.2	21.2
1 22	9 34.52	+15 23.9	1.958	2.903	6.6	21.0
2 1	9 26.68	+16 12.5	1.922	2.901	2.6	20.7
2 11	9 18.13	+17 2.2	1.916	2.900	1.7	20.6
2 21	9 9.83	+17 47.8	1.939	2.899	5.7	20.9
3 2	9 2.74	+18 25.3	1.989	2.897	9.5	21.1
3 12	8 57.59	+18 52.0	2.064	2.896	12.8	21.3

110652 2001 TO_{171} 2 7.5 51°.45 7°.1/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.27	+28 47.4	1.571	2.401	15.6	19.2
1 12	9 44.15	+30 29.4	1.520	2.416	12.1	19.1
1 22	9 37.03	+32 11.0	1.492	2.431	8.9	18.9
2 1	9 27.72	+33 40.8	1.491	2.447	7.1	18.8
2 11	9 17.59	+34 48.6	1.516	2.463	8.2	18.9
2 21	9 8.10	+35 28.6	1.566	2.479	11.1	19.1
3 2	9 0.59	+35 40.2	1.640	2.496	14.2	19.4
3 12	8 55.95	+35 26.6	1.734	2.512	17.0	19.6

425634 2010 VJ_{133} 2 7.5 79°.19 2°.8/ 5.5 18

1 2	9 49.39	+19 54.5	1.736	2.549	15.1	21.4
1 12	9 44.45	+20 46.3	1.676	2.569	11.4	21.2
1 22	9 36.94	+21 44.7	1.640	2.588	7.3	21.0
2 1	9 27.62	+22 42.6	1.630	2.607	3.5	20.8
2 11	9 17.66	+23 32.7	1.649	2.626	3.8	20.8
2 21	9 8.30	+24 9.4	1.696	2.645	7.5	21.1
3 2	9 0.63	+24 30.0	1.770	2.664	11.3	21.4
3 12	8 55.44	+24 34.7	1.866	2.683	14.5	21.6

455102 2015 UK_{77} 2 7.5 136°.98 0°.4/ 7.2 18

1 2	9 51.98	+13 37.3	1.871	2.661	15.1	22.2
1 12	9 46.26	+14 13.8	1.798	2.676	11.6	22.0
1 22	9 38.06	+15 1.7	1.748	2.691	7.4	21.8
2 1	9 28.08	+15 56.1	1.726	2.705	2.9	21.5
2 11	9 17.40	+16 50.7	1.734	2.718	1.8	21.5
2 21	9 7.17	+17 39.6	1.771	2.730	6.3	21.8
3 2	8 58.52	+18 18.5	1.837	2.742	10.3	22.1
3 12	8 52.21	+18 45.2	1.926	2.752	13.8	22.3

344210 2001 QV_{292} 2 7.5 203°.34 0°.6/ 8.0 17

1 2	9 46.51	+12 30.3	2.843	3.616	10.9	21.4
1 12	9 41.40	+12 32.6	2.744	3.612	8.4	21.3
1 22	9 34.63	+12 41.9	2.670	3.607	5.5	21.1
2 1	9 26.67	+12 56.3	2.625	3.602	2.4	20.8
2 11	9 18.16	+13 13.1	2.611	3.596	1.2	20.7
2 21	9 9.84	+13 29.7	2.629	3.590	4.3	21.0
3 2	9 2.41	+13 43.6	2.676	3.583	7.4	21.1
3 12	8 56.45	+13 53.1	2.750	3.576	10.1	21.3

347402 2012 SG_{15} 2 7.5 180°.67 4°.3/11.2 17

1 2	9 43.32	+ 0 25.0	2.449	3.187	13.3	20.8
1 12	9 39.21	+ 0 11.4	2.355	3.188	11.0	20.7
1 22	9 33.34	+ 0 13.1	2.284	3.188	8.3	20.5
2 1	9 26.18	+ 0 30.3	2.238	3.188	5.6	20.3
2 11	9 18.43	+ 1 1.2	2.221	3.188	4.3	20.2
2 21	9 10.87	+ 1 42.5	2.233	3.187	5.6	20.3
3 2	9 4.27	+ 2 29.9	2.274	3.187	8.2	20.5
3 12	8 59.26	+ 3 18.8	2.340	3.187	10.9	20.6

40665 1999 RE_{197} 2 7.5 199°.40 2°.1/ 8.8 18

1 2	9 49.35	+ 8 35.8	1.968	2.744	14.9	19.9
1 12	9 44.30	+ 8 33.8	1.876	2.742	11.8	19.7
1 22	9 36.87	+ 8 45.3	1.806	2.738	8.1	19.4
2 1	9 27.66	+ 9 8.3	1.762	2.735	4.1	19.2
2 11	9 17.61	+ 9 39.3	1.748	2.730	2.3	19.1
2 21	9 7.80	+10 13.9	1.762	2.726	5.9	19.3
3 2	8 59.32	+10 47.6	1.805	2.720	9.9	19.5
3 12	8 52.99	+11 16.5	1.873	2.714	13.5	19.7

86015 1999 JN_{99} 2 7.5 202°.06 3°.7/10.9 18

1 2	9 44.68	+ 0 42.6	2.474	3.210	13.3	20.4
1 12	9 40.28	+ 0 52.4	2.373	3.206	10.9	20.2
1 22	9 34.06	+ 1 18.8	2.294	3.202	8.0	20.0
2 1	9 26.48	+ 2 1.3	2.242	3.196	5.2	19.8
2 11	9 18.26	+ 2 57.1	2.219	3.191	3.7	19.7
2 21	9 10.17	+ 4 2.1	2.227	3.184	5.3	19.8
3 2	9 3.02	+ 5 11.0	2.263	3.178	8.2	20.0
3 12	8 57.48	+ 6 18.7	2.327	3.170	11.1	20.1

325216 2008 GQ_{18} 2 7.5 260°.34 6°.9/12.2 18

1 2	9 45.41	− 3 50.8	1.969	2.697	16.5	21.0
1 12	9 41.39	− 4 26.2	1.868	2.686	14.0	20.8
1 22	9 35.08	− 4 41.0	1.787	2.674	11.2	20.6
2 1	9 26.98	− 4 33.0	1.729	2.663	8.4	20.4
2 11	9 17.97	− 4 2.4	1.698	2.651	6.9	20.3
2 21	9 9.06	− 3 12.5	1.694	2.639	7.9	20.3
3 2	9 1.31	− 2 8.9	1.717	2.627	10.6	20.4
3 12	8 55.59	− 0 59.0	1.764	2.615	13.7	20.6

5824 Inagaki 2 7.5 20°.14 3°.4/ 8.9 18

1 2	9 50.44	+ 9 23.3	1.527	2.321	17.7	16.1
1 12	9 45.59	+ 8 32.2	1.450	2.325	14.1	15.8
1 22	9 37.89	+ 7 53.4	1.395	2.329	9.8	15.6
2 1	9 28.09	+ 7 26.9	1.364	2.335	5.4	15.4
2 11	9 17.42	+ 7 11.2	1.360	2.341	3.5	15.3
2 21	9 7.25	+ 7 3.5	1.384	2.347	7.1	15.5
3 2	8 58.88	+ 7 0.4	1.433	2.354	11.4	15.7
3 12	8 53.20	+ 6 58.4	1.505	2.362	15.3	16.0

495197 2013 CC_{17} 2 7.5 6°.59 2°.9/ 8.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 44.82	+ 8 21.8	1.192	2.011	20.3	21.4
1 12	9 42.03	+ 8 10.9	1.121	2.011	16.1	21.1
1 22	9 35.98	+ 8 20.8	1.069	2.012	11.1	20.9
2 1	9 27.43	+ 8 49.6	1.039	2.013	5.7	20.6
2 11	9 17.75	+ 9 32.0	1.033	2.016	3.2	20.4
2 21	9 8.58	+10 20.3	1.051	2.020	7.8	20.7
3 2	9 1.44	+11 6.7	1.093	2.025	13.1	21.0
3 12	8 57.41	+11 44.8	1.156	2.030	17.7	21.3

192278 3148 $T\text{-}_3$ 2 7.5 25°.87 6°.2/ 4.6 18

1 2	9 49.70	+25 21.9	1.082	1.931	19.7	19.1
1 12	9 46.19	+26 15.8	1.031	1.940	15.2	18.8
1 22	9 38.78	+27 12.6	0.998	1.949	10.3	18.6
2 1	9 28.52	+28 0.8	0.988	1.960	6.6	18.4
2 11	9 17.24	+28 29.2	1.002	1.972	7.3	18.5
2 21	9 6.95	+28 31.9	1.039	1.985	11.5	18.8
3 2	8 59.36	+28 8.8	1.098	1.998	16.0	19.1
3 12	8 55.46	+27 24.2	1.175	2.013	20.0	19.4

190717 2001 KH_{34} 2 7.5 311°.39 2°.6/ 8.9 18

1 2	9 46.64	+ 7 42.6	1.335	2.140	19.2	20.1
1 12	9 43.26	+ 7 47.1	1.252	2.135	15.3	19.8
1 22	9 36.75	+ 8 12.7	1.190	2.129	10.5	19.5
2 1	9 27.77	+ 8 57.5	1.150	2.124	5.3	19.2
2 11	9 17.56	+ 9 55.7	1.136	2.119	2.9	19.0
2 21	9 7.68	+10 59.2	1.147	2.115	7.6	19.3
3 2	8 59.63	+11 59.8	1.184	2.110	12.8	19.5
3 12	8 54.55	+12 50.7	1.241	2.106	17.4	19.8

450477 2005 XJ_{18} 2 7.5 127°.70 1°.0/ 6.8 18

1 2	9 51.19	+14 50.9	1.738	2.537	15.7	21.8
1 12	9 45.86	+15 37.9	1.668	2.552	12.0	21.6
1 22	9 37.92	+16 36.6	1.621	2.567	7.6	21.3
2 1	9 28.07	+17 41.0	1.601	2.581	3.0	21.1
2 11	9 17.47	+18 43.6	1.611	2.594	2.3	21.1
2 21	9 7.36	+19 37.8	1.649	2.607	6.8	21.4
3 2	8 58.92	+20 19.2	1.715	2.618	11.0	21.6
3 12	8 52.97	+20 45.8	1.804	2.630	14.6	21.9

445282 2009 WB_{89} 2 7.5 110°.39 0°.1/ 7.4 15

1 2	9 52.22	+12 43.1	1.515	2.316	17.5	22.5
1 12	9 46.91	+13 20.2	1.451	2.335	13.4	22.3
1 22	9 38.70	+14 12.0	1.408	2.353	8.7	22.1
2 1	9 28.40	+15 12.8	1.391	2.370	3.4	21.8
2 11	9 17.31	+16 14.6	1.402	2.387	1.9	21.8
2 21	9 6.85	+17 10.2	1.442	2.403	7.1	22.1
3 2	8 58.31	+17 54.1	1.508	2.419	11.7	22.4
3 12	8 52.55	+18 23.8	1.596	2.434	15.6	22.7

159072 2004 TM_{202} 2 7.5 143°.64 1°.6/ 6.2 18

1 2	9 47.70	+18 28.6	2.264	3.063	12.5	21.1
1 12	9 42.71	+19 1.0	2.185	3.070	9.5	21.0
1 22	9 35.66	+19 39.3	2.130	3.076	6.1	20.8
2 1	9 27.14	+20 19.0	2.104	3.082	2.6	20.5
2 11	9 18.01	+20 55.1	2.107	3.088	2.5	20.5
2 21	9 9.21	+21 23.6	2.141	3.093	5.9	20.8
3 2	9 1.65	+21 41.7	2.202	3.098	9.3	21.0
3 12	8 56.00	+21 48.6	2.288	3.103	12.2	21.2

389963 2012 TP_{199} 2 7.5 30°.88 0°.1/ 7.4 18

1 2	9 43.39	+13 11.2	2.104	2.902	13.3	20.6
1 12	9 39.57	+13 42.7	2.023	2.906	10.2	20.4
1 22	9 33.71	+14 25.0	1.966	2.910	6.6	20.2
2 1	9 26.38	+15 14.3	1.936	2.915	2.6	19.9
2 11	9 18.41	+16 5.4	1.935	2.920	1.5	19.9
2 21	9 10.74	+16 53.2	1.963	2.925	5.5	20.1
3 2	9 4.25	+17 33.6	2.019	2.930	9.2	20.4
3 12	8 59.64	+18 3.8	2.099	2.935	12.4	20.6

63171 2000 YU_{40} 2 7.5 21°.92 0°.4/ 7.8 18

1 2	9 45.11	+12 18.6	1.772	2.575	15.3	19.0
1 12	9 41.25	+12 37.5	1.693	2.578	11.8	18.8
1 22	9 34.98	+13 9.2	1.637	2.581	7.7	18.6
2 1	9 26.93	+13 50.0	1.606	2.584	3.2	18.3
2 11	9 18.11	+14 34.4	1.603	2.588	1.6	18.2
2 21	9 9.66	+15 16.9	1.629	2.592	6.1	18.5
3 2	9 2.64	+15 52.6	1.681	2.597	10.4	18.8
3 12	8 57.87	+16 18.5	1.756	2.602	14.0	19.0

3867 Shiretoko 2 7.5 17°.21 4°.5/ 4.8 18

1 2	9 46.58	+21 7.6	1.263	2.102	18.1	16.2
1 12	9 43.42	+22 17.8	1.199	2.105	13.8	15.9
1 22	9 36.90	+23 37.9	1.156	2.109	9.1	15.6
2 1	9 27.81	+24 57.6	1.137	2.113	5.0	15.4
2 11	9 17.63	+26 5.2	1.143	2.117	5.8	15.5
2 21	9 8.05	+26 52.2	1.174	2.123	10.2	15.7
3 2	9 0.64	+27 14.5	1.229	2.129	14.7	16.0
3 12	8 56.42	+27 13.1	1.303	2.135	18.7	16.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
200906 2002 AJ_{53}			2 7.5 27.°79	1.°6/ 8.3 18		
	h m	° ′			°	m
1 2	9 46.19	+10 28.4	1.197	2.020	20.0	19.7
1 12	9 42.97	+10 32.1	1.134	2.028	15.6	19.5
1 22	9 36.50	+10 54.8	1.090	2.037	10.4	19.2
2 1	9 27.62	+11 32.8	1.069	2.047	4.7	18.9
2 11	9 17.76	+12 19.2	1.072	2.057	2.3	18.8
2 21	9 8.55	+13 6.1	1.101	2.069	7.7	19.1
3 2	9 1.45	+13 46.6	1.153	2.081	12.9	19.5
3 12	8 57.45	+14 15.8	1.226	2.094	17.4	19.8
98785 2000 YR_{94}			2 7.5 342.°22	0.°6/ 7.9 18		
1 2	9 44.68	+11 22.4	1.945	2.740	14.4	19.9
1 12	9 40.76	+11 48.0	1.859	2.739	11.2	19.7
1 22	9 34.61	+12 26.6	1.796	2.739	7.3	19.5
2 1	9 26.79	+13 14.8	1.760	2.738	3.1	19.2
2 11	9 18.21	+14 7.5	1.752	2.737	1.5	19.1
2 21	9 9.90	+14 58.9	1.773	2.736	5.8	19.4
3 2	9 2.86	+15 44.2	1.821	2.736	9.8	19.6
3 12	8 57.88	+16 19.8	1.893	2.735	13.3	19.8
87801 2000 SC_{132}			2 7.5 116.°00	3.°4/10.2 17		
1 2	9 45.80	+ 3 56.8	2.611	3.357	12.4	19.7
1 12	9 40.92	+ 3 32.1	2.523	3.365	10.0	19.5
1 22	9 34.36	+ 3 19.2	2.459	3.372	7.3	19.3
2 1	9 26.60	+ 3 17.7	2.422	3.380	4.6	19.2
2 11	9 18.33	+ 3 26.2	2.415	3.387	3.4	19.1
2 21	9 10.32	+ 3 42.3	2.438	3.395	5.0	19.2
3 2	9 3.27	+ 4 3.0	2.490	3.402	7.7	19.4
3 12	8 57.76	+ 4 24.8	2.569	3.409	10.3	19.6
57472 2001 SO_{124}			2 7.5 76.°43	1.°5/ 8.5 18		
1 2	9 48.11	+ 9 41.9	1.753	2.543	15.9	19.5
1 12	9 43.37	+ 9 51.9	1.686	2.561	12.4	19.3
1 22	9 36.23	+10 16.1	1.640	2.579	8.3	19.1
2 1	9 27.39	+10 51.6	1.621	2.597	3.9	18.9
2 11	9 17.92	+11 33.1	1.630	2.615	1.9	18.8
2 21	9 8.95	+12 15.4	1.668	2.633	6.0	19.1
3 2	9 1.54	+12 53.4	1.733	2.650	10.0	19.4
3 12	8 56.43	+13 23.7	1.822	2.668	13.6	19.6
296200 2009 BM_{187}			2 7.5 176.°30	2.°0/ 9.5 17		
1 2	9 42.43	+ 5 53.9	2.579	3.342	12.1	21.4
1 12	9 38.48	+ 6 14.7	2.486	3.343	9.6	21.2
1 22	9 32.85	+ 6 48.7	2.417	3.343	6.7	21.0
2 1	9 26.02	+ 7 34.1	2.375	3.344	3.6	20.8
2 11	9 18.64	+ 8 27.4	2.363	3.344	2.1	20.7
2 21	9 11.43	+ 9 24.5	2.381	3.344	4.5	20.9
3 2	9 5.13	+10 21.0	2.428	3.344	7.6	21.1
3 12	9 0.33	+11 12.9	2.502	3.344	10.5	21.3
299039 2005 AW_{61}			2 7.5 43.°68	1.°9/ 6.5 18		
1 2	9 49.80	+17 30.7	1.219	2.050	19.1	20.2
1 12	9 45.57	+17 59.3	1.169	2.070	14.5	19.9
1 22	9 38.03	+18 38.7	1.138	2.090	9.3	19.7
2 1	9 28.17	+19 21.5	1.131	2.111	3.8	19.4
2 11	9 17.55	+19 59.0	1.150	2.133	3.2	19.5
2 21	9 7.84	+20 24.9	1.194	2.155	8.4	19.8
3 2	9 0.43	+20 35.8	1.263	2.177	13.2	20.2
3 12	8 56.18	+20 31.5	1.351	2.200	17.2	20.5
346285 2008 KN_{19}			2 7.5 260.°94	0.°2/ 7.6 18		
1 2	9 48.14	+11 46.2	1.383	2.195	18.3	21.7
1 12	9 44.44	+12 17.9	1.298	2.188	14.3	21.4
1 22	9 37.56	+13 8.3	1.233	2.180	9.4	21.1
2 1	9 28.14	+14 12.7	1.193	2.172	3.9	20.7
2 11	9 17.45	+15 23.1	1.179	2.164	2.0	20.6
2 21	9 7.04	+16 30.3	1.192	2.156	7.8	20.9
3 2	8 58.45	+17 26.7	1.230	2.148	13.1	21.2
3 12	8 52.85	+18 7.7	1.289	2.140	17.7	21.4
126995 2002 FZ_{34}			2 7.5 40.°42	0.°1/ 7.4 18		
1 2	9 46.27	+14 5.0	1.932	2.733	14.3	20.0
1 12	9 41.97	+14 25.3	1.850	2.734	11.0	19.8
1 22	9 35.38	+14 55.9	1.791	2.735	7.1	19.6
2 1	9 27.10	+15 33.0	1.758	2.737	2.8	19.3
2 11	9 18.08	+16 11.5	1.754	2.739	1.6	19.2
2 21	9 9.39	+16 46.5	1.779	2.740	6.0	19.5
3 2	9 2.04	+17 14.0	1.831	2.742	10.0	19.7
3 12	8 56.83	+17 31.6	1.907	2.744	13.4	20.0
247011 1999 VU_{191}			2 7.5 139.°29	2.°1/ 9.1 18		
1 2	9 48.86	+ 7 10.9	2.082	2.850	14.5	21.6
1 12	9 43.66	+ 7 22.6	2.002	2.862	11.4	21.4
1 22	9 36.32	+ 7 48.6	1.944	2.874	7.8	21.2
2 1	9 27.44	+ 8 26.6	1.914	2.885	4.0	21.0
2 11	9 17.91	+ 9 12.7	1.914	2.896	2.3	20.9
2 21	9 8.73	+10 1.8	1.943	2.906	5.4	21.1
3 2	9 0.84	+10 49.2	2.001	2.915	9.1	21.3
3 12	8 54.96	+11 30.7	2.084	2.924	12.4	21.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
414827 2010 UV_{49}			2 7.5 34.°66	8.°1/13.5 18		
	h m	° ′			°	m
1 2	9 43.24	− 5 57.9	1.570	2.310	19.6	21.2
1 12	9 40.05	− 6 26.2	1.495	2.318	16.6	21.0
1 22	9 34.33	− 6 26.2	1.439	2.327	13.3	20.8
2 1	9 26.72	− 5 55.6	1.404	2.336	10.1	20.6
2 11	9 18.29	− 4 56.2	1.393	2.346	8.2	20.5
2 21	9 10.23	− 3 34.0	1.408	2.356	8.9	20.6
3 2	9 3.69	− 1 58.2	1.448	2.366	11.5	20.8
3 12	8 59.53	− 0 19.0	1.511	2.377	14.8	21.0
425855 2011 EY_{71}			2 7.5 103.°22	3.°5/ 4.7 18		
1 2	9 47.65	+23 29.8	2.114	2.925	12.8	21.2
1 12	9 42.90	+24 20.2	2.042	2.933	9.8	21.0
1 22	9 35.90	+25 13.7	1.995	2.940	6.5	20.8
2 1	9 27.29	+26 4.0	1.975	2.947	3.8	20.7
2 11	9 18.03	+26 45.1	1.985	2.954	4.3	20.7
2 21	9 9.16	+27 12.4	2.023	2.961	7.3	20.9
3 2	9 1.67	+27 24.2	2.088	2.968	10.5	21.1
3 12	8 56.28	+27 20.5	2.176	2.975	13.3	21.3
354499 2004 NL_{19}			2 7.5 154.°02	2.°1/ 8.9 18		
1 2	9 51.04	+ 7 37.4	2.012	2.780	14.9	22.2
1 12	9 45.43	+ 7 44.5	1.929	2.790	11.8	22.0
1 22	9 37.53	+ 8 5.9	1.869	2.799	8.1	21.8
2 1	9 27.96	+ 8 39.3	1.836	2.808	4.1	21.5
2 11	9 17.67	+ 9 20.7	1.833	2.816	2.3	21.4
2 21	9 7.73	+10 5.3	1.860	2.822	5.7	21.7
3 2	8 59.16	+10 48.2	1.915	2.828	9.5	21.9
3 12	8 52.73	+11 25.4	1.996	2.833	12.9	22.1
103760 2000 CV_{125}			2 7.5 160.°71	1.°7/ 6.2 18		
1 2	9 48.19	+17 18.4	1.938	2.742	14.1	19.9
1 12	9 43.50	+18 4.7	1.858	2.745	10.8	19.7
1 22	9 36.41	+19 0.0	1.802	2.749	6.9	19.5
2 1	9 27.55	+19 58.7	1.773	2.752	2.9	19.2
2 11	9 17.91	+20 54.2	1.773	2.754	2.8	19.2
2 21	9 8.60	+21 40.5	1.803	2.756	6.7	19.5
3 2	9 0.70	+22 14.0	1.859	2.758	10.6	19.7
3 12	8 55.03	+22 33.0	1.940	2.760	13.9	19.9
167017 2003 QE_{23}			2 7.5 231.°13	2.°2/ 9.0 18		
1 2	9 47.86	+ 7 14.9	1.895	2.672	15.4	21.2
1 12	9 43.38	+ 7 26.2	1.796	2.662	12.3	20.9
1 22	9 36.46	+ 7 53.8	1.719	2.651	8.5	20.7
2 1	9 27.63	+ 8 36.0	1.668	2.640	4.4	20.4
2 11	9 17.83	+ 9 28.3	1.645	2.628	2.4	20.2
2 21	9 8.17	+10 25.3	1.652	2.616	6.1	20.5
3 2	8 59.79	+11 21.0	1.686	2.603	10.3	20.7
3 12	8 53.61	+12 10.2	1.745	2.590	14.1	20.9
239442 2007 TJ_{177}			2 7.5 137.°73	4.°3/ 3.6 18		
1 2	9 48.03	+28 6.2	2.514	3.320	11.2	20.8
1 12	9 42.90	+28 57.0	2.442	3.326	8.7	20.6
1 22	9 35.77	+29 47.0	2.396	3.333	6.1	20.5
2 1	9 27.22	+30 30.6	2.378	3.339	4.4	20.4
2 11	9 18.11	+31 2.5	2.389	3.345	5.0	20.4
2 21	9 9.35	+31 19.5	2.430	3.351	7.3	20.6
3 2	9 1.80	+31 20.6	2.498	3.356	9.8	20.8
3 12	8 56.14	+31 6.8	2.589	3.361	12.2	20.9
173032 Mingus			2 7.5 201.°76	1.°8/ 9.4 17		
1 2	9 42.78	+ 6 1.3	2.817	3.574	11.3	21.4
1 12	9 38.65	+ 6 28.0	2.717	3.571	9.0	21.2
1 22	9 32.95	+ 7 7.3	2.641	3.567	6.2	21.1
2 1	9 26.09	+ 7 57.1	2.593	3.562	3.3	20.9
2 11	9 18.70	+ 8 54.3	2.576	3.558	1.9	20.7
2 21	9 11.44	+ 9 54.7	2.590	3.553	4.3	20.9
3 2	9 4.99	+10 54.3	2.634	3.547	7.2	21.1
3 12	8 59.91	+11 49.3	2.704	3.541	9.9	21.3
215072 2009 EV_{10}			2 7.5 280.°80	3.°1/ 5.7 16		
1 2	9 49.83	+20 35.6	1.640	2.457	15.7	21.1
1 12	9 45.51	+21 13.4	1.543	2.438	12.1	20.8
1 22	9 38.18	+21 59.3	1.469	2.418	8.0	20.5
2 1	9 28.42	+22 46.5	1.421	2.398	3.9	20.2
2 11	9 17.39	+23 27.1	1.400	2.378	4.1	20.2
2 21	9 6.51	+23 54.6	1.407	2.358	8.5	20.4
3 2	8 57.27	+24 5.0	1.439	2.338	13.1	20.6
3 12	8 50.80	+23 57.9	1.493	2.317	17.1	20.8
63310 2001 FS_{21}			2 7.5 276.°81	2.°3/ 5.9 18		
1 2	9 46.67	+17 28.0	1.679	2.495	15.4	19.5
1 12	9 42.83	+18 23.4	1.593	2.487	11.8	19.2
1 22	9 36.27	+19 30.4	1.529	2.479	7.6	18.9
2 1	9 27.59	+20 42.6	1.492	2.471	3.3	18.7
2 11	9 17.86	+21 51.5	1.482	2.463	3.4	18.6
2 21	9 8.39	+22 49.6	1.501	2.454	7.8	18.9
3 2	9 0.46	+23 31.6	1.545	2.446	12.2	19.1
3 12	8 55.05	+23 55.6	1.612	2.439	16.0	19.3

325782 2010 OV_{125} 2 7.5 61°.35 0°.2/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.39	+12 35.3	1.582	2.389	16.6	21.1
1 12	9 43.08	+13 16.9	1.524	2.411	12.7	20.9
1 22	9 36.16	+14 12.6	1.487	2.433	8.2	20.7
2 1	9 27.43	+15 16.8	1.476	2.455	3.2	20.4
2 11	9 18.04	+16 21.9	1.493	2.478	1.8	20.4
2 21	9 9.24	+17 20.8	1.538	2.500	6.6	20.7
3 2	9 2.17	+18 8.2	1.609	2.523	10.9	21.0
3 12	8 57.58	+18 41.6	1.703	2.545	14.6	21.3

90566 2004 GS_5 2 7.5 265°.46 4°.8/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.22	+29 0.1	2.619	3.427	10.7	20.1
1 12	9 41.72	+30 7.9	2.524	3.408	8.4	20.0
1 22	9 35.18	+31 16.4	2.455	3.389	6.1	19.8
2 1	9 27.07	+32 19.3	2.414	3.370	4.8	19.7
2 11	9 18.17	+33 10.7	2.403	3.350	5.6	19.7
2 21	9 9.38	+33 46.2	2.421	3.331	7.8	19.8
3 2	9 1.63	+34 3.7	2.465	3.311	10.4	19.9
3 12	8 55.67	+34 3.6	2.532	3.290	12.8	20.1

472801 2015 FM_{158} 2 7.5 272°.14 3°.9/11.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 41.67	− 0 20.7	2.595	3.330	12.8	21.6
1 12	9 38.03	− 0 8.2	2.482	3.312	10.5	21.4
1 22	9 32.68	+ 0 21.2	2.391	3.295	7.9	21.2
2 1	9 26.04	+ 1 7.4	2.326	3.278	5.3	21.0
2 11	9 18.73	+ 2 8.0	2.291	3.260	3.9	20.9
2 21	9 11.47	+ 3 18.8	2.285	3.242	5.2	21.0
3 2	9 5.03	+ 4 34.9	2.308	3.224	8.0	21.1
3 12	9 0.05	+ 5 50.8	2.358	3.206	10.8	21.3

433223 2012 UP_{148} 2 7.5 131°.34 4°.3/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.75	− 1 14.0	2.615	3.341	12.9	21.5
1 12	9 38.68	− 1 18.1	2.524	3.347	10.6	21.3
1 22	9 32.98	− 1 6.2	2.457	3.353	8.1	21.1
2 1	9 26.11	− 0 38.6	2.415	3.359	5.6	21.0
2 11	9 18.73	+ 0 2.8	2.402	3.365	4.3	20.9
2 21	9 11.55	+ 0 54.5	2.418	3.370	5.3	21.0
3 2	9 5.26	+ 1 52.1	2.463	3.375	7.7	21.1
3 12	9 0.45	+ 2 50.8	2.535	3.381	10.2	21.3

431216 2006 SS_{233} 2 7.5 145°.54 3°.1/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.07	+ 2 22.8	2.742	3.484	12.0	22.1
1 12	9 38.84	+ 2 26.1	2.652	3.490	9.7	22.0
1 22	9 33.04	+ 2 42.8	2.585	3.496	7.1	21.8
2 1	9 26.13	+ 3 12.1	2.545	3.502	4.5	21.6
2 11	9 18.73	+ 3 51.8	2.534	3.507	3.1	21.6
2 21	9 11.53	+ 4 38.3	2.554	3.512	4.7	21.7
3 2	9 5.19	+ 5 27.7	2.603	3.517	7.3	21.8
3 12	9 0.27	+ 6 16.2	2.679	3.522	9.8	22.0

327240 2005 SO_{20} 2 7.5 107°.78 2°.6/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.11	+20 46.9	2.124	2.926	13.1	21.2
1 12	9 44.61	+21 33.2	2.060	2.946	9.9	21.1
1 22	9 36.91	+22 23.9	2.020	2.966	6.4	20.9
2 1	9 27.69	+23 13.3	2.009	2.985	3.2	20.7
2 11	9 17.92	+23 55.4	2.028	3.004	3.4	20.8
2 21	9 8.63	+24 26.0	2.077	3.022	6.6	21.0
3 2	9 0.77	+24 43.0	2.153	3.040	9.9	21.2
3 12	8 55.02	+24 46.3	2.253	3.057	12.8	21.4

495922 2005 VN_{111} 2 7.5 37°.14 4°.4/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.50	+ 4 7.8	1.710	2.484	16.9	21.5
1 12	9 42.33	+ 3 38.9	1.633	2.491	13.7	21.3
1 22	9 35.71	+ 3 27.4	1.576	2.498	9.9	21.1
2 1	9 27.29	+ 3 33.4	1.544	2.506	6.2	20.9
2 11	9 18.11	+ 3 54.4	1.539	2.514	4.4	20.8
2 21	9 9.31	+ 4 26.3	1.561	2.522	6.7	21.0
3 2	9 1.99	+ 5 3.5	1.609	2.530	10.4	21.2
3 12	8 56.97	+ 5 40.5	1.681	2.539	13.9	21.4

118593 2000 GQ_{76} 2 7.5 220°.54 5°.3/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.30	+30 45.1	2.473	3.273	11.6	20.9
1 12	9 46.45	+31 45.9	2.384	3.262	9.1	20.8
1 22	9 38.26	+32 45.4	2.320	3.250	6.8	20.6
2 1	9 28.32	+33 36.5	2.285	3.237	5.4	20.5
2 11	9 17.54	+34 13.0	2.280	3.224	6.1	20.5
2 21	9 6.99	+34 31.0	2.303	3.209	8.4	20.6
3 2	8 57.72	+34 29.3	2.354	3.194	11.0	20.8
3 12	8 50.55	+34 9.6	2.427	3.179	13.4	20.9

365138 2009 DO_{54} 2 7.5 336°.42 1°.2/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.92	+15 25.0	1.370	2.196	17.7	21.1
1 12	9 42.74	+15 57.8	1.291	2.189	13.7	20.8
1 22	9 36.44	+16 44.9	1.232	2.183	8.8	20.5
2 1	9 27.72	+17 40.5	1.197	2.177	3.5	20.2
2 11	9 17.85	+18 36.2	1.188	2.172	2.7	20.1
2 21	9 8.34	+19 23.9	1.206	2.168	8.1	20.5
3 2	9 0.68	+19 57.9	1.247	2.164	13.2	20.7
3 12	8 55.96	+20 15.3	1.310	2.160	17.5	21.0

350656 2001 TX_{237} 2 7.5 115°.28 0°.1/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.98	+12 37.0	1.704	2.499	16.1	21.5
1 12	9 45.72	+13 17.6	1.637	2.518	12.4	21.3
1 22	9 37.87	+14 11.8	1.592	2.536	8.0	21.1
2 1	9 28.14	+15 14.1	1.574	2.553	3.2	20.8
2 11	9 17.69	+16 17.5	1.585	2.569	1.8	20.8
2 21	9 7.77	+17 15.2	1.624	2.585	6.5	21.1
3 2	8 59.52	+18 2.1	1.691	2.600	10.8	21.4
3 12	8 53.76	+18 35.6	1.782	2.615	14.4	21.7

500206 2012 HF_{27} 2 7.5 321°.73 0°.0/ 7.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.37	+10 46.2	1.579	2.389	16.5	20.9
1 12	9 39.67	+11 37.8	1.487	2.376	12.8	20.6
1 22	9 34.32	+12 49.0	1.417	2.364	8.4	20.3
2 1	9 26.86	+14 15.3	1.373	2.352	3.5	20.0
2 11	9 18.31	+15 48.6	1.355	2.340	1.8	19.8
2 21	9 9.93	+17 19.4	1.365	2.329	7.1	20.1
3 2	9 2.99	+18 39.3	1.401	2.319	11.9	20.4
3 12	8 58.54	+19 42.8	1.459	2.309	16.1	20.6

19476 Denduluri 2 7.5 352°.50 1°.1/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.76	+10 41.8	1.873	2.666	14.9	18.8
1 12	9 41.68	+10 52.4	1.788	2.666	11.7	18.6
1 22	9 35.28	+11 16.2	1.725	2.665	7.8	18.4
2 1	9 27.14	+11 50.2	1.688	2.664	3.5	18.1
2 11	9 18.21	+12 30.0	1.679	2.664	1.7	18.0
2 21	9 9.58	+13 10.4	1.699	2.664	5.9	18.2
3 2	9 2.29	+13 46.7	1.746	2.664	10.0	18.5
3 12	8 57.15	+14 15.2	1.817	2.664	13.6	18.7

474117 2016 LS_{47} 2 7.5 167°.71 2°.8/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.15	+ 1 36.3	2.955	3.690	11.3	21.7
1 12	9 38.07	+ 2 2.3	2.859	3.694	9.2	21.5
1 22	9 32.53	+ 2 42.5	2.786	3.697	6.7	21.4
2 1	9 25.94	+ 3 35.4	2.742	3.700	4.1	21.2
2 11	9 18.88	+ 4 38.3	2.727	3.702	2.8	21.1
2 21	9 11.97	+ 5 47.2	2.744	3.704	4.3	21.2
3 2	9 5.84	+ 6 57.6	2.791	3.706	6.8	21.4
3 12	9 1.00	+ 8 5.4	2.866	3.707	9.3	21.6

404308 2013 EV_{122} 2 7.5 185°.80 1°.6/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.70	+17 46.8	2.076	2.873	13.6	21.4
1 12	9 45.30	+18 20.6	1.990	2.873	10.4	21.1
1 22	9 37.55	+19 1.9	1.927	2.872	6.7	20.9
2 1	9 28.04	+19 45.6	1.892	2.871	2.8	20.7
2 11	9 17.75	+20 26.1	1.888	2.869	2.5	20.6
2 21	9 7.75	+20 58.6	1.913	2.867	6.4	20.9
3 2	8 59.12	+21 19.8	1.966	2.864	10.2	21.1
3 12	8 52.64	+21 28.7	2.044	2.860	13.5	21.3

387805 2004 DY_{58} 2 7.5 269°.68 0°.5/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.07	+13 14.7	1.459	2.272	17.5	21.0
1 12	9 44.40	+13 53.7	1.366	2.257	13.6	20.7
1 22	9 37.61	+14 50.2	1.294	2.241	8.9	20.4
2 1	9 28.27	+15 59.2	1.246	2.226	3.6	20.1
2 11	9 17.56	+17 12.3	1.225	2.210	2.3	19.9
2 21	9 6.98	+18 20.5	1.231	2.194	7.9	20.2
3 2	8 58.09	+19 16.1	1.263	2.177	13.2	20.5
3 12	8 52.08	+19 55.0	1.316	2.161	17.8	20.7

455988 2005 WK_{127} 2 7.5 93°.13 6°.3/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.27	+29 42.5	1.881	2.700	13.9	20.9
1 12	9 44.63	+31 4.1	1.815	2.704	10.9	20.7
1 22	9 37.29	+32 24.9	1.774	2.709	8.0	20.6
2 1	9 27.97	+33 35.8	1.760	2.714	6.4	20.5
2 11	9 17.81	+34 28.4	1.773	2.719	7.3	20.5
2 21	9 8.10	+34 57.9	1.813	2.724	9.9	20.7
3 2	9 0.07	+35 3.1	1.878	2.729	12.9	20.9
3 12	8 54.58	+34 46.5	1.964	2.734	15.6	21.1

465728 2009 US_{151} 2 7.5 146°.70 2°.3/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.10	+20 7.8	2.204	3.006	12.7	22.0
1 12	9 43.15	+20 48.4	2.126	3.012	9.6	21.8
1 22	9 36.05	+21 34.2	2.072	3.018	6.2	21.6
2 1	9 27.41	+22 20.1	2.047	3.023	2.9	21.4
2 11	9 18.12	+23 0.5	2.051	3.029	3.1	21.4
2 21	9 9.17	+23 31.1	2.085	3.033	6.4	21.6
3 2	9 1.50	+23 49.2	2.147	3.038	9.8	21.8
3 12	8 55.83	+23 54.3	2.233	3.042	12.7	22.0

138632 2000 RS_{14} 2 7.5 86°.50 5°.2/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.25	− 4 7.1	2.478	3.193	13.8	20.2
1 12	9 38.39	− 4 11.3	2.392	3.203	11.5	20.0
1 22	9 32.85	− 3 57.0	2.328	3.213	9.0	19.9
2 1	9 26.10	− 3 24.0	2.289	3.223	6.6	19.7
2 11	9 18.84	− 2 34.3	2.278	3.233	5.2	19.7
2 21	9 11.81	− 1 31.7	2.295	3.242	6.0	19.7
3 2	9 5.73	− 0 21.5	2.341	3.252	8.1	19.9
3 12	9 1.19	+ 0 50.7	2.413	3.262	10.6	20.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
127293 2002 JL_{78}			2 7.5 209°.07		1°.4/ 8.6 18	
	h m	° ′			°	m
1 2	9 45.67	+ 9 34.1	2.194	2.974	13.5	20.4
1 12	9 41.30	+ 9 46.5	2.102	2.972	10.5	20.1
1 22	9 34.89	+10 11.1	2.033	2.969	7.1	19.9
2 1	9 26.97	+10 45.6	1.991	2.966	3.4	19.7
2 11	9 18.35	+11 26.1	1.979	2.963	1.7	19.6
2 21	9 9.95	+12 8.2	1.996	2.960	5.2	19.8
3 2	9 2.67	+12 47.6	2.042	2.956	8.9	20.0
3 12	8 57.23	+13 20.8	2.112	2.953	12.2	20.2
131522 2001 TW_{196}			2 7.5 159°.26		9°.1/27.4 18	
1 2	9 54.93	+48 41.8	2.815	3.579	11.2	20.0
1 12	9 48.70	+50 13.0	2.768	3.585	10.0	19.9
1 22	9 39.81	+51 31.6	2.745	3.589	9.2	19.9
2 1	9 28.96	+52 30.0	2.748	3.594	9.2	19.9
2 11	9 17.30	+53 2.8	2.776	3.598	9.9	19.9
2 21	9 6.10	+53 8.2	2.828	3.602	11.1	20.0
3 2	8 56.55	+52 47.6	2.901	3.605	12.4	20.1
3 12	8 49.51	+52 5.3	2.993	3.608	13.6	20.3
160788 2000 TF_{21}			2 7.5 132°.61		0°.0/ 7.4 18	
1 2	9 48.32	+11 38.1	1.757	2.553	15.7	20.5
1 12	9 43.76	+12 29.4	1.682	2.563	12.1	20.3
1 22	9 36.67	+13 36.1	1.629	2.572	7.8	20.1
2 1	9 27.72	+14 52.8	1.602	2.581	3.1	19.8
2 11	9 17.96	+16 12.0	1.605	2.590	1.7	19.7
2 21	9 8.59	+17 26.1	1.637	2.598	6.5	20.0
3 2	9 0.73	+18 29.0	1.696	2.606	10.7	20.3
3 12	8 55.22	+19 17.3	1.779	2.613	14.4	20.5
321362 2009 MA_{8}			2 7.5 172°.71		1°.4/ 8.9 18	
1 2	9 46.60	+ 7 13.9	2.534	3.295	12.4	21.7
1 12	9 41.71	+ 7 51.6	2.441	3.299	9.7	21.6
1 22	9 35.01	+ 8 42.8	2.373	3.303	6.6	21.4
2 1	9 26.99	+ 9 44.8	2.333	3.305	3.2	21.2
2 11	9 18.36	+10 53.2	2.324	3.307	1.6	21.0
2 21	9 9.91	+12 2.9	2.346	3.309	4.7	21.3
3 2	9 2.45	+13 9.2	2.399	3.309	8.0	21.5
3 12	8 56.60	+14 8.1	2.478	3.309	10.9	21.7
36854 2000 SA_{125}			2 7.5 201°.75		3°.0/ 5.2 18	
1 2	9 47.12	+20 56.9	1.977	2.789	13.6	18.9
1 12	9 42.74	+21 50.1	1.896	2.788	10.3	18.7
1 22	9 35.98	+22 49.6	1.840	2.787	6.7	18.5
2 1	9 27.44	+23 48.9	1.811	2.786	3.5	18.3
2 11	9 18.11	+24 41.3	1.811	2.785	3.9	18.3
2 21	9 9.09	+25 21.2	1.839	2.784	7.3	18.5
3 2	9 1.46	+25 45.4	1.894	2.783	10.9	18.7
3 12	8 56.03	+25 53.4	1.972	2.782	14.1	18.9
340648 2006 QF_{183}			2 7.5 51°.27		4°.0/11.1 18	
1 2	9 42.36	+ 1 1.6	2.220	2.970	14.2	20.9
1 12	9 38.66	+ 1 4.8	2.139	2.980	11.6	20.7
1 22	9 33.11	+ 1 25.4	2.079	2.990	8.5	20.6
2 1	9 26.23	+ 2 2.7	2.045	3.001	5.6	20.4
2 11	9 18.81	+ 2 53.7	2.040	3.012	4.0	20.3
2 21	9 11.65	+ 3 53.8	2.063	3.023	5.5	20.4
3 2	9 5.56	+ 4 57.5	2.115	3.034	8.4	20.6
3 12	9 1.18	+ 5 59.5	2.192	3.045	11.3	20.8
354068 2001 TF_{185}			2 7.5 110°.77		2°.8/ 9.2 18	
1 2	9 49.66	+ 7 3.7	1.560	2.346	17.8	21.0
1 12	9 45.01	+ 7 1.9	1.485	2.355	14.1	20.8
1 22	9 37.59	+ 7 18.3	1.431	2.364	9.7	20.6
2 1	9 28.13	+ 7 50.8	1.402	2.373	5.2	20.3
2 11	9 17.79	+ 8 34.6	1.400	2.382	3.0	20.2
2 21	9 7.92	+ 9 23.7	1.425	2.390	6.7	20.5
3 2	8 59.75	+10 11.5	1.477	2.398	11.2	20.7
3 12	8 54.19	+10 52.9	1.552	2.406	15.1	21.0
344021 2012 FV_{36}			2 7.5 105°.11		2°.2/ 5.9 18	
1 2	9 48.18	+18 33.4	1.927	2.734	14.1	21.1
1 12	9 43.44	+19 23.5	1.857	2.747	10.7	20.9
1 22	9 36.35	+20 21.1	1.811	2.759	6.8	20.7
2 1	9 27.57	+21 20.3	1.792	2.770	3.1	20.5
2 11	9 18.10	+22 14.2	1.803	2.782	3.1	20.5
2 21	9 9.06	+22 57.4	1.842	2.793	6.8	20.8
3 2	9 1.48	+23 26.6	1.908	2.804	10.5	21.0
3 12	8 56.13	+23 41.0	1.998	2.815	13.7	21.2
421130 2013 QZ_{91}			2 7.5 173°.10		1°.4/ 8.5 18	
1 2	9 47.38	+10 21.1	1.982	2.767	14.5	21.5
1 12	9 42.79	+10 25.3	1.895	2.768	11.3	21.3
1 22	9 35.95	+10 41.6	1.831	2.769	7.6	21.1
2 1	9 27.43	+11 7.8	1.794	2.769	3.6	20.8
2 11	9 18.16	+11 39.8	1.785	2.770	1.8	20.7
2 21	9 9.19	+12 13.1	1.806	2.770	5.6	20.9
3 2	9 1.51	+12 43.6	1.854	2.770	9.6	21.2
3 12	8 55.92	+13 7.8	1.927	2.770	13.1	21.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
318479 2005 EF_{75}			2 7.5 282°.91		0°.8/ 6.7 17	
	h m	° ′			°	m
1 2	9 41.91	+17 5.0	3.151	3.942	9.5	21.4
1 12	9 37.91	+17 25.9	3.049	3.930	7.2	21.2
1 22	9 32.46	+17 51.7	2.972	3.917	4.6	21.0
2 1	9 25.95	+18 19.8	2.925	3.904	1.9	20.8
2 11	9 18.96	+18 47.1	2.909	3.892	1.5	20.8
2 21	9 12.09	+19 10.7	2.923	3.879	4.3	21.0
3 2	9 5.96	+19 28.6	2.966	3.866	7.0	21.1
3 12	9 1.10	+19 39.2	3.036	3.853	9.5	21.3
125031 2001 TV_{191}			2 7.5 268°.40		2°.3/ 8.7 18	
1 2	9 50.19	+ 9 43.1	1.584	2.377	17.2	19.2
1 12	9 45.73	+ 9 27.7	1.486	2.362	13.7	18.9
1 22	9 38.32	+ 9 26.5	1.410	2.347	9.4	18.6
2 1	9 28.55	+ 9 38.1	1.358	2.332	4.7	18.3
2 11	9 17.53	+ 9 59.0	1.333	2.317	2.6	18.1
2 21	9 6.66	+10 24.5	1.337	2.302	7.1	18.4
3 2	8 57.37	+10 49.4	1.366	2.286	12.0	18.6
3 12	8 50.77	+11 9.4	1.417	2.270	16.3	18.8
130742 2000 SA_{256}			2 7.5 324°.71		5°.8/ 4.1 18	
1 2	9 49.62	+25 25.9	1.420	2.252	16.8	19.0
1 12	9 45.71	+26 31.2	1.346	2.246	13.1	18.8
1 22	9 38.45	+27 41.1	1.294	2.241	9.0	18.5
2 1	9 28.59	+28 45.3	1.267	2.236	6.0	18.3
2 11	9 17.54	+29 33.3	1.266	2.231	6.9	18.4
2 21	9 6.98	+29 58.0	1.290	2.227	10.7	18.6
3 2	8 58.48	+29 57.3	1.338	2.223	14.8	18.8
3 12	8 53.15	+29 33.3	1.405	2.219	18.5	19.0
409993 2006 VL_{155}			2 7.5 99°.23		9°.6/31.9 18	
1 2	9 58.02	+39 59.2	1.835	2.636	14.9	21.1
1 12	9 51.55	+41 21.3	1.788	2.651	12.4	20.9
1 22	9 41.81	+42 32.0	1.763	2.665	10.4	20.8
2 1	9 29.78	+43 20.6	1.764	2.680	9.6	20.8
2 11	9 16.99	+43 39.6	1.791	2.693	10.4	20.9
2 21	9 5.10	+43 26.7	1.843	2.707	12.3	21.0
3 2	8 55.52	+42 44.9	1.917	2.720	14.6	21.2
3 12	8 49.11	+41 40.3	2.012	2.733	16.7	21.4
449614 2014 JB_{73}			2 7.5 278°.58		4°.8/10.2 18	
1 2	9 47.19	+ 3 31.7	1.440	2.224	19.1	21.4
1 12	9 43.68	+ 3 13.6	1.345	2.209	15.6	21.1
1 22	9 37.14	+ 3 17.6	1.269	2.195	11.5	20.8
2 1	9 28.12	+ 3 44.6	1.215	2.180	7.1	20.5
2 11	9 17.75	+ 4 31.8	1.188	2.165	4.9	20.4
2 21	9 7.48	+ 5 33.2	1.186	2.150	7.9	20.5
3 2	8 58.81	+ 6 40.7	1.209	2.135	12.6	20.7
3 12	8 52.94	+ 7 45.7	1.254	2.120	17.2	20.9
258747 2002 GN_{177}			2 7.5 254°.61		0°.0/ 7.3 17	
1 2	9 48.22	+12 52.5	1.791	2.589	15.3	21.6
1 12	9 43.92	+13 19.8	1.692	2.575	11.9	21.3
1 22	9 36.99	+14 0.7	1.616	2.560	7.9	21.0
2 1	9 27.97	+14 51.4	1.565	2.544	3.2	20.7
2 11	9 17.86	+15 45.9	1.544	2.529	1.7	20.6
2 21	9 7.88	+16 37.7	1.551	2.513	6.6	20.9
3 2	8 59.28	+17 21.3	1.584	2.496	11.2	21.1
3 12	8 53.05	+17 53.1	1.641	2.479	15.2	21.3
76452 2000 FO_{36}			2 7.5 39°.73		2°.8/ 9.9 18	
1 2	9 42.64	+ 4 5.5	2.055	2.824	14.6	18.4
1 12	9 39.09	+ 4 27.4	1.970	2.828	11.7	18.2
1 22	9 33.51	+ 5 7.2	1.907	2.833	8.3	18.0
2 1	9 26.45	+ 6 2.9	1.870	2.837	4.7	17.8
2 11	9 18.73	+ 7 10.2	1.862	2.842	2.9	17.7
2 21	9 11.26	+ 8 23.3	1.882	2.847	5.4	17.9
3 2	9 4.93	+ 9 35.8	1.931	2.852	9.0	18.1
3 12	9 0.46	+10 42.5	2.005	2.857	12.2	18.3
281312 2007 TE_{37}			2 7.5 219°.61		0°.3/ 7.8 17	
1 2	9 44.94	+12 26.4	2.616	3.397	11.5	21.5
1 12	9 40.48	+12 49.3	2.517	3.390	8.9	21.4
1 22	9 34.26	+13 21.3	2.443	3.383	5.8	21.1
2 1	9 26.73	+13 59.7	2.397	3.375	2.4	20.9
2 11	9 18.58	+14 40.7	2.381	3.366	1.2	20.8
2 21	9 10.58	+15 20.4	2.397	3.358	4.7	21.0
3 2	9 3.51	+15 55.5	2.441	3.349	8.0	21.2
3 12	8 57.98	+16 23.5	2.511	3.340	10.9	21.4
132278 2002 EP_{152}			2 7.5 208°.04		3°.8/10.5 18	
1 2	9 47.92	+ 2 9.2	2.178	2.923	14.6	20.2
1 12	9 43.11	+ 2 11.1	2.076	2.917	11.9	20.0
1 22	9 36.15	+ 2 30.4	1.997	2.910	8.7	19.8
2 1	9 27.55	+ 3 6.5	1.943	2.902	5.5	19.6
2 11	9 18.13	+ 3 56.6	1.919	2.893	3.8	19.5
2 21	9 8.84	+ 4 56.3	1.924	2.884	5.8	19.6
3 2	9 0.65	+ 5 59.9	1.959	2.873	9.2	19.8
3 12	8 54.34	+ 7 1.7	2.019	2.862	12.5	20.0

280801 2005 TK_{72} 2 7.5 142.°96 1.°4/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 52.73	+16 16.0	1.748	2.547	15.6	21.6
1 12	9 47.15	+16 58.6	1.675	2.559	11.9	21.4
1 22	9 38.88	+17 51.4	1.625	2.571	7.6	21.2
2 1	9 28.64	+18 48.4	1.602	2.581	3.1	20.9
2 11	9 17.59	+19 42.3	1.608	2.591	2.6	20.9
2 21	9 7.02	+20 27.0	1.644	2.600	7.0	21.2
3 2	8 58.13	+20 58.5	1.707	2.608	11.2	21.4
3 12	8 51.80	+21 15.5	1.793	2.615	14.8	21.7

38655 2000 OX_{38} 2 7.5 58.°03 7.°2/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.02	− 4 43.7	1.751	2.485	18.1	18.5
1 12	9 41.14	− 5 11.6	1.679	2.499	15.2	18.4
1 22	9 34.93	− 5 14.9	1.626	2.514	12.0	18.2
2 1	9 27.03	− 4 52.1	1.596	2.530	9.0	18.0
2 11	9 18.44	− 4 5.1	1.591	2.545	7.2	18.0
2 21	9 10.25	− 2 59.1	1.613	2.561	8.0	18.0
3 2	9 3.47	− 1 41.5	1.662	2.576	10.6	18.2
3 12	8 58.88	− 0 20.9	1.734	2.592	13.6	18.4

74058 1998 KQ_{18} 2 7.5 262.°91 1.°6/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.40	+17 10.8	1.817	2.623	14.8	20.5
1 12	9 44.89	+17 44.5	1.716	2.604	11.5	20.3
1 22	9 37.66	+18 28.2	1.638	2.585	7.5	20.0
2 1	9 28.27	+19 17.0	1.586	2.566	3.1	19.7
2 11	9 17.72	+20 4.1	1.563	2.546	2.7	19.6
2 21	9 7.29	+20 43.3	1.569	2.525	7.3	19.8
3 2	8 58.25	+21 10.0	1.601	2.504	11.7	20.0
3 12	8 51.65	+21 22.4	1.657	2.483	15.6	20.2

337642 2001 TL_{119} 2 7.5 139.°98 2.°0/ 5.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.32	+22 23.0	2.921	3.711	10.2	20.8
1 12	9 43.48	+22 41.3	2.844	3.723	7.7	20.7
1 22	9 35.98	+23 1.0	2.792	3.734	5.0	20.5
2 1	9 27.35	+23 18.5	2.770	3.745	2.5	20.4
2 11	9 18.30	+23 30.6	2.780	3.755	2.6	20.4
2 21	9 9.58	+23 34.8	2.820	3.765	5.1	20.6
3 2	9 1.89	+23 30.1	2.891	3.774	7.8	20.7
3 12	8 55.78	+23 16.6	2.987	3.783	10.1	20.9

284862 2009 BU_{189} 2 7.5 309.°28 1.°5/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.27	+ 9 40.1	2.244	3.026	13.1	20.8
1 12	9 40.22	+ 9 43.5	2.150	3.020	10.3	20.6
1 22	9 34.20	+ 9 58.2	2.079	3.015	7.0	20.4
2 1	9 26.74	+10 22.3	2.036	3.010	3.4	20.2
2 11	9 18.59	+10 52.5	2.021	3.005	1.8	20.0
2 21	9 10.65	+11 25.0	2.036	3.000	5.1	20.3
3 2	9 3.78	+11 55.9	2.079	2.995	8.7	20.5
3 12	8 58.68	+12 21.9	2.147	2.991	11.9	20.7

93653 2000 UL_{98} 2 7.5 86.°72 3.°3/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.90	+22 34.4	1.920	2.733	13.9	19.4
1 12	9 44.11	+23 15.2	1.846	2.737	10.6	19.2
1 22	9 36.86	+24 0.0	1.795	2.742	7.0	19.0
2 1	9 27.82	+24 42.4	1.772	2.746	3.8	18.8
2 11	9 18.04	+25 16.1	1.777	2.751	4.1	18.8
2 21	9 8.69	+25 36.5	1.811	2.755	7.5	19.0
3 2	9 0.86	+25 41.5	1.871	2.759	11.1	19.3
3 12	8 55.34	+25 31.5	1.953	2.764	14.2	19.5

109607 2001 QK_{285} 2 7.5 143.°86 3.°4/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.88	+22 44.6	2.004	2.813	13.5	20.4
1 12	9 44.77	+23 35.9	1.930	2.819	10.3	20.2
1 22	9 37.25	+24 31.3	1.881	2.826	6.8	20.0
2 1	9 27.97	+25 24.0	1.858	2.832	3.8	19.9
2 11	9 17.96	+26 7.5	1.866	2.837	4.3	19.9
2 21	9 8.36	+26 36.9	1.902	2.842	7.5	20.1
3 2	9 0.23	+26 50.1	1.964	2.847	10.9	20.3
3 12	8 54.36	+26 47.4	2.050	2.852	14.0	20.5

422715 2000 WE_{6} 2 7.5 107.°55 3.°8/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.74	+26 29.9	2.709	3.503	10.8	22.5
1 12	9 45.43	+27 35.1	2.656	3.535	8.3	22.3
1 22	9 37.27	+28 39.6	2.630	3.566	5.7	22.2
2 1	9 27.87	+29 37.8	2.633	3.596	3.9	22.1
2 11	9 18.05	+30 24.6	2.669	3.625	4.4	22.2
2 21	9 8.67	+30 56.8	2.734	3.654	6.6	22.4
3 2	9 0.52	+31 13.5	2.829	3.681	9.0	22.6
3 12	8 54.19	+31 15.5	2.947	3.708	11.1	22.8

425379 2010 CA_{41} 2 7.5 304.°86 2.°5/ 9.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.05	+ 5 5.6	2.020	2.795	14.6	21.4
1 12	9 38.96	+ 5 31.4	1.904	2.767	11.8	21.1
1 22	9 33.68	+ 6 16.3	1.810	2.740	8.3	20.9
2 1	9 26.64	+ 7 19.0	1.742	2.712	4.6	20.6
2 11	9 18.61	+ 8 35.5	1.703	2.685	2.6	20.4
2 21	9 10.54	+ 9 59.5	1.692	2.657	5.8	20.5
3 2	9 3.49	+11 23.9	1.709	2.630	9.9	20.7
3 12	8 58.35	+12 42.1	1.751	2.603	13.7	20.9

357356 2003 RH_{16} 2 7.5 183.°12 0.°7/ 7.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.28	+15 34.5	2.190	2.977	13.3	22.5
1 12	9 45.62	+15 59.2	2.101	2.978	10.2	22.3
1 22	9 37.72	+16 32.1	2.036	2.978	6.6	22.1
2 1	9 28.16	+17 9.2	1.999	2.978	2.6	21.9
2 11	9 17.86	+17 45.6	1.993	2.976	1.8	21.8
2 21	9 7.83	+18 16.8	2.017	2.974	5.8	22.1
3 2	8 59.08	+18 39.6	2.070	2.971	9.5	22.3
3 12	8 52.37	+18 52.4	2.148	2.967	12.8	22.5

403866 2011 VK_{16} 2 7.5 263.°85 4.°7/ 4.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.35	+23 38.9	1.585	2.408	15.8	21.2
1 12	9 45.98	+24 38.6	1.504	2.400	12.2	20.9
1 22	9 38.51	+25 44.3	1.444	2.391	8.3	20.7
2 1	9 28.63	+26 47.3	1.411	2.383	5.0	20.5
2 11	9 17.58	+27 38.1	1.404	2.374	5.7	20.5
2 21	9 6.88	+28 9.7	1.425	2.365	9.5	20.7
3 2	8 58.00	+28 19.3	1.470	2.356	13.7	20.9
3 12	8 52.01	+28 7.8	1.536	2.347	17.4	21.1

349292 2007 TD_{408} 2 7.5 144.°29 3.°6/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.75	+ 1 41.2	2.600	3.340	12.6	21.5
1 12	9 39.49	+ 1 37.4	2.509	3.345	10.3	21.4
1 22	9 33.57	+ 1 47.7	2.442	3.350	7.6	21.2
2 1	9 26.46	+ 2 11.9	2.401	3.355	4.9	21.0
2 11	9 18.82	+ 2 47.6	2.389	3.360	3.6	21.0
2 21	9 11.38	+ 3 31.4	2.407	3.364	5.0	21.1
3 2	9 4.86	+ 4 19.4	2.454	3.368	7.6	21.2
3 12	8 59.84	+ 5 7.2	2.527	3.372	10.3	21.4

428943 2008 XY_{21} 2 7.5 217.°52 1.°9/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.68	+ 7 51.1	2.378	3.148	12.8	21.2
1 12	9 40.41	+ 7 54.7	2.284	3.146	10.1	21.0
1 22	9 34.27	+ 8 10.2	2.213	3.144	7.0	20.8
2 1	9 26.77	+ 8 36.0	2.170	3.141	3.6	20.6
2 11	9 18.65	+ 9 9.2	2.156	3.138	2.1	20.5
2 21	9 10.72	+ 9 45.8	2.172	3.135	4.9	20.7
3 2	9 3.79	+10 22.1	2.217	3.132	8.2	20.9
3 12	8 58.55	+10 54.6	2.287	3.129	11.3	21.1

2076 Levin 2 7.5 73.°96 0.°8/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.52	+16 1.1	1.362	2.176	18.4	17.5
1 12	9 48.23	+16 11.9	1.302	2.194	14.1	17.3
1 22	9 39.76	+16 33.4	1.263	2.211	9.1	17.0
2 1	9 29.03	+17 0.1	1.249	2.229	3.6	16.8
2 11	9 17.52	+17 25.3	1.262	2.246	2.3	16.7
2 21	9 6.79	+17 43.3	1.302	2.264	7.6	17.1
3 2	8 58.26	+17 51.0	1.367	2.281	12.4	17.4
3 12	8 52.78	+17 47.3	1.454	2.299	16.4	17.7

333376 2002 PD_{66} 2 7.5 177.°73 0.°5/ 8.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.60	+10 37.6	2.720	3.494	11.3	22.0
1 12	9 40.13	+11 12.5	2.627	3.495	8.7	21.8
1 22	9 33.99	+11 57.7	2.560	3.497	5.8	21.6
2 1	9 26.65	+12 50.3	2.521	3.497	2.5	21.4
2 11	9 18.76	+13 46.3	2.513	3.498	1.1	21.3
2 21	9 11.04	+14 41.6	2.536	3.498	4.4	21.5
3 2	9 4.21	+15 32.2	2.589	3.497	7.6	21.7
3 12	8 58.86	+16 15.2	2.668	3.496	10.3	21.9

408288 2013 GT_{11} 2 7.5 303.°58 0.°8/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.67	+12 13.9	1.454	2.265	17.6	21.0
1 12	9 44.02	+12 17.9	1.365	2.253	13.8	20.7
1 22	9 37.33	+12 36.7	1.296	2.241	9.2	20.4
2 1	9 28.22	+13 7.1	1.250	2.229	4.0	20.1
2 11	9 17.89	+13 43.5	1.232	2.217	1.9	19.9
2 21	9 7.78	+14 19.6	1.240	2.206	7.3	20.2
3 2	8 59.38	+14 49.6	1.273	2.194	12.5	20.5
3 12	8 53.81	+15 9.6	1.327	2.184	17.0	20.7

132268 2002 EF_{133} 2 7.5 260.°43 0.°6/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.42	+11 41.9	1.740	2.536	15.8	21.1
1 12	9 44.17	+11 58.8	1.641	2.521	12.4	20.8
1 22	9 37.23	+12 29.9	1.564	2.506	8.2	20.5
2 1	9 28.14	+13 12.1	1.512	2.490	3.6	20.2
2 11	9 17.93	+13 59.9	1.489	2.474	1.7	20.0
2 21	9 7.85	+14 47.2	1.494	2.458	6.6	20.3
3 2	8 59.17	+15 28.3	1.526	2.441	11.3	20.6
3 12	8 52.91	+15 59.3	1.581	2.424	15.4	20.8

488822 2005 NC_{16} 2 7.5 115.°55 2.°8/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.17	+19 24.3	1.972	2.779	13.8	21.0
1 12	9 43.46	+20 35.5	1.903	2.793	10.4	20.8
1 22	9 36.42	+21 54.2	1.859	2.806	6.7	20.6
2 1	9 27.68	+23 13.5	1.842	2.819	3.4	20.4
2 11	9 18.24	+24 25.6	1.856	2.831	3.8	20.5
2 21	9 9.19	+25 24.4	1.898	2.843	7.2	20.7
3 2	9 1.56	+26 6.3	1.968	2.854	10.7	20.9
3 12	8 56.12	+26 30.7	2.061	2.866	13.8	21.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
26774 4189 T-$_1$			2 7.5 202°.21		0°.2/ 7.4 18	
	h m	° ′			°	m
1 2	9 50.60	+13 16.7	1.702	2.500	16.0	20.2
1 12	9 45.79	+13 47.5	1.614	2.497	12.4	20.0
1 22	9 38.21	+14 31.9	1.549	2.493	8.1	19.7
2 1	9 28.51	+15 25.4	1.510	2.489	3.3	19.4
2 11	9 17.77	+16 21.2	1.499	2.484	1.9	19.3
2 21	9 7.31	+17 12.6	1.517	2.478	6.8	19.6
3 2	8 58.42	+17 54.3	1.562	2.472	11.4	19.8
3 12	8 52.07	+18 23.1	1.630	2.466	15.4	20.1
517653 2015 BM_{543}			2 7.6 126°.98		5°.2/11.9 17	
1 2	9 44.60	− 2 5.5	2.330	3.056	14.3	21.8
1 12	9 40.34	− 2 24.1	2.241	3.062	11.9	21.6
1 22	9 34.24	− 2 25.1	2.174	3.067	9.2	21.4
2 1	9 26.78	− 2 8.1	2.133	3.073	6.6	21.3
2 11	9 18.72	− 1 34.6	2.119	3.078	5.2	21.2
2 21	9 10.89	− 0 48.1	2.134	3.084	6.2	21.3
3 2	9 4.09	+ 0 6.7	2.177	3.089	8.6	21.4
3 12	8 58.97	+ 1 4.2	2.246	3.093	11.3	21.6
307901 2004 CR_{61}			2 7.6 13°.40		3°.4/ 5.6 18	
1 2	9 50.67	+22 12.9	1.582	2.403	16.0	20.8
1 12	9 46.01	+22 43.2	1.508	2.403	12.3	20.5
1 22	9 38.38	+23 18.2	1.456	2.404	8.1	20.3
2 1	9 28.55	+23 51.0	1.429	2.405	4.1	20.1
2 11	9 17.80	+24 14.3	1.430	2.407	4.4	20.1
2 21	9 7.56	+24 23.2	1.458	2.408	8.4	20.3
3 2	8 59.19	+24 15.8	1.512	2.410	12.6	20.6
3 12	8 53.61	+23 52.9	1.587	2.412	16.2	20.8
321426 2009 QF_{28}			2 7.6 163°.33		0°.8/ 8.2 18	
1 2	9 46.41	+10 11.4	2.084	2.867	14.0	21.3
1 12	9 41.99	+10 41.4	1.998	2.870	10.9	21.1
1 22	9 35.43	+11 24.7	1.935	2.873	7.2	20.9
2 1	9 27.30	+12 18.1	1.899	2.876	3.2	20.6
2 11	9 18.45	+13 16.5	1.893	2.878	1.4	20.5
2 21	9 9.86	+14 14.2	1.917	2.880	5.4	20.8
3 2	9 2.48	+15 6.3	1.969	2.882	9.3	21.0
3 12	8 57.05	+15 49.1	2.046	2.883	12.6	21.2
193754 2001 KH_{31}			2 7.6 236°.17		4°.6/ 4.5 18	
1 2	9 52.91	+23 45.1	1.677	2.492	15.5	20.9
1 12	9 47.91	+24 47.7	1.589	2.480	12.0	20.6
1 22	9 39.81	+25 56.4	1.523	2.468	8.1	20.3
2 1	9 29.23	+27 2.8	1.483	2.455	5.0	20.1
2 11	9 17.40	+27 57.1	1.472	2.441	5.7	20.1
2 21	9 5.80	+28 32.3	1.489	2.426	9.5	20.3
3 2	8 55.95	+28 45.2	1.530	2.411	13.6	20.5
3 12	8 48.96	+28 36.8	1.593	2.396	17.3	20.7
194705 2001 XO_{236}			2 7.6 41°.14		2°.3/ 6.4 18	
1 2	9 49.70	+18 0.7	1.161	1.996	19.6	20.1
1 12	9 45.81	+18 34.1	1.109	2.012	14.9	19.9
1 22	9 38.44	+19 18.6	1.076	2.029	9.6	19.6
2 1	9 28.58	+20 6.1	1.067	2.046	4.0	19.4
2 11	9 17.85	+20 47.2	1.082	2.065	3.6	19.4
2 21	9 8.01	+21 14.9	1.123	2.083	8.9	19.7
3 2	9 0.56	+21 25.7	1.187	2.103	13.8	20.1
3 12	8 56.41	+21 19.7	1.272	2.122	18.0	20.4
163695 2003 EB_7			2 7.6 290°.33		1°.2/ 8.5 18	
1 2	9 44.10	+10 22.8	2.386	3.167	12.5	20.5
1 12	9 40.01	+10 29.3	2.290	3.160	9.8	20.3
1 22	9 34.06	+10 46.1	2.217	3.154	6.6	20.1
2 1	9 26.73	+11 11.3	2.172	3.148	3.1	19.9
2 11	9 18.77	+11 41.6	2.157	3.141	1.5	19.8
2 21	9 10.98	+12 13.3	2.171	3.135	4.8	20.0
3 2	9 4.19	+12 42.8	2.214	3.129	8.3	20.2
3 12	8 59.06	+13 7.2	2.282	3.123	11.4	20.4
48615 1995 FG_{16}			2 7.6 123°.32		5°.1/ 3.3 18	
1 2	9 51.73	+31 36.7	2.517	3.316	11.4	19.7
1 12	9 45.74	+32 22.9	2.452	3.329	8.9	19.6
1 22	9 37.66	+33 5.5	2.413	3.342	6.6	19.4
2 1	9 28.13	+33 38.4	2.403	3.354	5.2	19.4
2 11	9 18.08	+33 56.6	2.421	3.366	5.7	19.4
2 21	9 8.50	+33 57.9	2.469	3.377	7.8	19.6
3 2	9 0.29	+33 42.0	2.544	3.388	10.1	19.7
3 12	8 54.11	+33 11.0	2.642	3.399	12.3	19.9
7582 1990 WL			2 7.6 70°.86		0°.1/ 7.6 18	
1 2	9 43.82	+11 45.3	2.224	3.014	13.0	17.2
1 12	9 39.81	+12 28.3	2.150	3.029	10.0	17.0
1 22	9 33.90	+13 22.8	2.101	3.043	6.5	16.8
2 1	9 26.65	+14 24.7	2.080	3.058	2.6	16.6
2 11	9 18.85	+15 28.6	2.088	3.073	1.3	16.5
2 21	9 11.37	+16 29.4	2.126	3.088	5.1	16.8
3 2	9 5.02	+17 22.4	2.193	3.103	8.6	17.1
3 12	9 0.44	+18 4.9	2.284	3.117	11.6	17.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
269478 2009 TP_{35}			2 7.6 56°.35		2°.0/ 8.9 18	
	h m	° ′			°	m
1 2	9 45.89	+ 7 47.8	1.743	2.531	16.1	20.8
1 12	9 41.79	+ 8 4.2	1.677	2.550	12.6	20.6
1 22	9 35.35	+ 8 37.1	1.633	2.569	8.5	20.4
2 1	9 27.26	+ 9 23.3	1.614	2.588	4.2	20.2
2 11	9 18.55	+10 17.6	1.624	2.607	2.2	20.1
2 21	9 10.31	+11 13.8	1.661	2.627	5.8	20.4
3 2	9 3.55	+12 6.1	1.726	2.647	9.8	20.6
3 12	8 59.01	+12 50.1	1.815	2.666	13.4	20.9
419510 2010 GB_{113}			2 7.6 358°.60		4°.9/ 3.4 18	
1 2	9 46.41	+27 19.7	2.094	2.912	12.7	20.3
1 12	9 42.21	+28 24.1	2.020	2.911	9.8	20.1
1 22	9 35.68	+29 29.5	1.970	2.911	6.9	19.9
2 1	9 27.43	+30 28.8	1.948	2.910	5.0	19.8
2 11	9 18.43	+31 14.9	1.953	2.910	5.8	19.8
2 21	9 9.77	+31 43.3	1.987	2.910	8.4	20.0
3 2	9 2.49	+31 52.3	2.046	2.911	11.4	20.2
3 12	8 57.37	+31 42.9	2.128	2.911	14.1	20.4
315553 2008 CM_9			2 7.6 93°.98		0°.5/ 7.2 18	
1 2	9 47.65	+14 13.9	1.720	2.526	15.6	21.6
1 12	9 43.42	+14 42.2	1.640	2.527	12.0	21.4
1 22	9 36.60	+15 22.6	1.582	2.528	7.8	21.2
2 1	9 27.84	+16 10.4	1.550	2.529	3.1	20.9
2 11	9 18.22	+16 59.3	1.546	2.531	1.9	20.8
2 21	9 8.95	+17 43.1	1.571	2.532	6.6	21.1
3 2	9 1.21	+18 17.2	1.621	2.533	11.0	21.4
3 12	8 55.87	+18 38.9	1.695	2.535	14.7	21.6
432187 2009 DH_6			2 7.6 31°.55		0°.6/ 7.1 18	
1 2	9 43.29	+13 40.6	1.818	2.626	14.7	21.2
1 12	9 39.84	+14 24.0	1.749	2.637	11.2	21.0
1 22	9 34.13	+15 19.6	1.702	2.649	7.2	20.8
2 1	9 26.79	+16 22.4	1.682	2.662	2.8	20.6
2 11	9 18.79	+17 25.6	1.691	2.675	1.8	20.5
2 21	9 11.19	+18 23.1	1.727	2.689	6.2	20.8
3 2	9 4.97	+19 10.0	1.791	2.703	10.1	21.1
3 12	9 0.88	+19 43.5	1.878	2.717	13.5	21.3
460367 2014 SO_9			2 7.6 33°.84		2°.4/ 9.1 18	
1 2	9 46.38	+ 7 46.2	1.523	2.320	17.6	21.3
1 12	9 42.65	+ 7 49.7	1.448	2.324	13.9	21.0
1 22	9 36.20	+ 8 11.4	1.392	2.329	9.6	20.8
2 1	9 27.70	+ 8 49.1	1.361	2.334	4.9	20.5
2 11	9 18.31	+ 9 37.6	1.356	2.339	2.6	20.4
2 21	9 9.33	+10 30.5	1.379	2.345	6.6	20.7
3 2	9 1.99	+11 20.9	1.427	2.351	11.2	20.9
3 12	8 57.20	+12 3.7	1.498	2.357	15.2	21.2
288728 2004 RZ_{44}			2 7.6 160°.90		0°.3/ 7.8 18	
1 2	9 50.30	+11 53.3	1.822	2.612	15.4	22.1
1 12	9 45.27	+12 21.4	1.741	2.618	12.0	21.9
1 22	9 37.72	+13 3.0	1.682	2.623	7.8	21.7
2 1	9 28.29	+13 53.9	1.649	2.628	3.3	21.4
2 11	9 18.03	+14 48.2	1.646	2.631	1.6	21.3
2 21	9 8.11	+15 39.7	1.672	2.635	6.2	21.6
3 2	8 59.68	+16 23.3	1.726	2.637	10.5	21.9
3 12	8 53.60	+16 56.0	1.804	2.640	14.2	22.1
212703 2007 RA_{13}			2 7.6 85°.88		0°.4/ 7.3 18	
1 2	9 52.63	+14 53.9	1.610	2.412	16.6	20.6
1 12	9 47.09	+15 11.7	1.549	2.434	12.7	20.4
1 22	9 38.84	+15 40.0	1.511	2.456	8.2	20.2
2 1	9 28.68	+16 13.9	1.498	2.477	3.2	20.0
2 11	9 17.87	+16 47.2	1.514	2.499	1.9	19.9
2 21	9 7.74	+17 14.6	1.558	2.520	6.7	20.3
3 2	8 59.46	+17 32.8	1.629	2.540	11.0	20.6
3 12	8 53.81	+17 40.2	1.723	2.560	14.6	20.8
101793 1999 GN_{48}			2 7.6 325°.97		3°.3/ 5.6 18	
1 2	9 46.22	+20 50.3	1.483	2.313	16.4	19.1
1 12	9 43.00	+21 27.4	1.395	2.297	12.6	18.8
1 22	9 36.74	+22 12.6	1.330	2.281	8.3	18.5
2 1	9 28.04	+22 59.0	1.288	2.266	4.1	18.2
2 11	9 18.14	+23 38.3	1.273	2.251	4.4	18.2
2 21	9 8.50	+24 3.6	1.284	2.238	8.9	18.4
3 2	9 0.61	+24 10.9	1.320	2.225	13.5	18.6
3 12	8 55.58	+24 0.0	1.375	2.213	17.6	18.8
185526 2007 VT_{190}			2 7.6 37°.50		0°.6/ 7.1 18	
1 2	9 44.16	+14 45.3	2.086	2.888	13.3	20.4
1 12	9 40.27	+15 17.4	2.009	2.895	10.2	20.2
1 22	9 34.31	+15 59.1	1.956	2.902	6.5	20.0
2 1	9 26.87	+16 46.1	1.930	2.909	2.6	19.7
2 11	9 18.81	+17 33.2	1.932	2.916	1.7	19.7
2 21	9 11.06	+18 15.6	1.964	2.924	5.7	19.9
3 2	9 4.54	+18 49.4	2.023	2.932	9.3	20.2
3 12	8 59.92	+19 12.4	2.107	2.940	12.5	20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
372893 2011 AP_{23}			2 7.6 349°.06		3°.6/ 6.1 18	
	h m	° ′			°	m
1 2	9 54.18	+24 44.3	1.507	2.327	16.6	20.0
1 12	9 48.89	+24 37.5	1.427	2.322	12.9	19.8
1 22	9 40.36	+24 30.0	1.369	2.317	8.6	19.5
2 1	9 29.42	+24 15.8	1.337	2.312	4.5	19.2
2 11	9 17.48	+23 49.5	1.331	2.309	4.4	19.2
2 21	9 6.17	+23 8.7	1.353	2.306	8.6	19.5
3 2	8 56.95	+22 14.3	1.400	2.304	13.0	19.7
3 12	8 50.80	+21 9.0	1.470	2.303	16.9	19.9
200624 2001 SJ_{102}			2 7.6 168°.42		2°.1/ 8.9 18	
1 2	9 49.65	+ 7 58.4	1.701	2.484	16.6	21.7
1 12	9 44.96	+ 8 9.8	1.617	2.487	13.1	21.5
1 22	9 37.62	+ 8 38.2	1.555	2.490	9.0	21.2
2 1	9 28.29	+ 9 21.0	1.518	2.492	4.5	21.0
2 11	9 18.05	+10 13.2	1.510	2.494	2.3	20.8
2 21	9 8.13	+11 8.5	1.530	2.495	6.4	21.1
3 2	8 59.74	+12 0.7	1.577	2.496	10.8	21.4
3 12	8 53.80	+12 45.0	1.648	2.496	14.7	21.6
140018 2001 ST_{51}			2 7.6 158°.21		6°.0/ 1.9 18	
1 2	9 50.36	+34 48.4	2.601	3.401	11.0	20.3
1 12	9 44.84	+35 47.2	2.533	3.405	8.9	20.2
1 22	9 37.19	+36 41.1	2.490	3.408	7.0	20.1
2 1	9 28.01	+37 23.6	2.475	3.412	6.0	20.0
2 11	9 18.23	+37 49.5	2.488	3.415	6.7	20.1
2 21	9 8.83	+37 56.1	2.530	3.417	8.5	20.2
3 2	9 0.74	+37 43.2	2.597	3.420	10.6	20.3
3 12	8 54.66	+37 13.0	2.687	3.422	12.7	20.5
206059 2002 QQ_{108}			2 7.6 78°.42		1°.9/ 9.1 18	
1 2	9 45.10	+ 8 4.4	2.137	2.915	13.9	20.8
1 12	9 40.88	+ 8 13.2	2.057	2.923	10.9	20.6
1 22	9 34.67	+ 8 35.2	1.999	2.932	7.4	20.4
2 1	9 27.01	+ 9 8.2	1.968	2.940	3.8	20.2
2 11	9 18.75	+ 9 48.6	1.965	2.948	2.0	20.1
2 21	9 10.80	+10 31.7	1.993	2.957	5.2	20.3
3 2	9 4.01	+11 13.2	2.048	2.965	8.7	20.5
3 12	8 59.07	+11 49.3	2.128	2.974	11.9	20.7
456418 2006 UG_{333}			2 7.6 224°.10		5°.5/12.1 18	
1 2	9 45.62	− 2 53.8	2.042	2.771	15.9	21.5
1 12	9 41.56	− 2 54.2	1.941	2.764	13.3	21.3
1 22	9 35.31	− 2 32.5	1.860	2.756	10.3	21.1
2 1	9 27.35	− 1 47.8	1.804	2.747	7.3	20.9
2 11	9 18.54	− 0 42.5	1.775	2.738	5.6	20.8
2 21	9 9.84	+ 0 38.5	1.775	2.729	6.8	20.8
3 2	9 2.26	+ 2 8.0	1.803	2.719	9.8	21.0
3 12	8 56.63	+ 3 38.4	1.856	2.709	13.1	21.2
64782 2001 XU_{193}			2 7.6 116°.99		0°.3/ 7.4 18	
1 2	9 51.38	+12 46.6	1.858	2.647	15.2	19.5
1 12	9 45.89	+13 31.9	1.791	2.668	11.6	19.3
1 22	9 37.98	+14 29.7	1.747	2.689	7.5	19.1
2 1	9 28.35	+15 34.7	1.730	2.709	3.0	18.9
2 11	9 18.07	+16 40.0	1.744	2.729	1.7	18.8
2 21	9 8.29	+17 39.2	1.787	2.747	6.1	19.1
3 2	9 0.05	+18 27.8	1.859	2.765	10.2	19.4
3 12	8 54.13	+19 3.2	1.954	2.781	13.6	19.7
426291 2012 TF_{70}			2 7.6 171°.28		0°.2/ 7.4 17	
1 2	9 44.76	+14 0.5	2.797	3.580	10.8	22.0
1 12	9 40.22	+14 28.3	2.707	3.582	8.3	21.8
1 22	9 34.06	+15 3.6	2.643	3.585	5.3	21.6
2 1	9 26.74	+15 43.4	2.608	3.587	2.1	21.4
2 11	9 18.90	+16 24.0	2.604	3.588	1.2	21.3
2 21	9 11.26	+17 2.0	2.630	3.589	4.5	21.6
3 2	9 4.51	+17 34.2	2.686	3.590	7.5	21.8
3 12	8 59.22	+17 58.7	2.768	3.591	10.1	21.9
440070 2002 RB_{279}			2 7.6 96°.27		3°.5/ 9.6 17	
1 2	9 53.34	+ 6 4.4	1.476	2.256	18.9	21.7
1 12	9 47.84	+ 5 50.6	1.412	2.277	15.0	21.5
1 22	9 39.45	+ 5 55.8	1.369	2.298	10.5	21.3
2 1	9 28.98	+ 6 18.5	1.350	2.318	5.8	21.0
2 11	9 17.76	+ 6 54.2	1.358	2.338	3.6	21.0
2 21	9 7.20	+ 7 36.8	1.394	2.358	7.0	21.2
3 2	8 58.57	+ 8 20.1	1.456	2.377	11.3	21.5
3 12	8 52.73	+ 8 58.5	1.542	2.395	15.2	21.8
14948 Bartuška			2 7.6 153°.89		0°.0/ 7.5 18	
1 2	9 53.32	+13 46.6	1.908	2.694	15.0	19.0
1 12	9 47.42	+14 0.1	1.828	2.704	11.5	18.8
1 22	9 39.02	+14 23.6	1.771	2.712	7.5	18.6
2 1	9 28.81	+14 53.4	1.742	2.720	3.1	18.3
2 11	9 17.84	+15 24.5	1.742	2.727	1.6	18.2
2 21	9 7.28	+15 52.1	1.772	2.733	6.1	18.5
3 2	8 58.25	+16 12.7	1.831	2.739	10.2	18.8
3 12	8 51.56	+16 24.4	1.913	2.743	13.7	19.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
508360 2016 EV_{133}			2 7.6 242°.04		2°.7/ 5.6 17	
	h m	° ′			°	m
1 2	9 49.77	+21 58.7	2.188	2.991	12.7	21.8
1 12	9 44.67	+22 28.6	2.095	2.981	9.8	21.6
1 22	9 37.27	+23 2.3	2.026	2.971	6.4	21.4
2 1	9 28.13	+23 34.7	1.985	2.960	3.3	21.2
2 11	9 18.18	+24 0.4	1.973	2.949	3.5	21.2
2 21	9 8.47	+24 15.3	1.991	2.938	6.8	21.3
3 2	9 0.04	+24 17.3	2.037	2.926	10.3	21.5
3 12	8 53.68	+24 6.2	2.106	2.914	13.4	21.7
404999 2000 SW_{262}			2 7.6 54°.42		7°.3/ 3.2 18	
1 2	9 54.62	+31 34.8	1.577	2.397	16.0	20.2
1 12	9 48.84	+32 47.4	1.541	2.429	12.5	20.0
1 22	9 40.00	+33 54.0	1.528	2.460	9.3	19.9
2 1	9 29.14	+34 44.8	1.540	2.492	7.4	19.9
2 11	9 17.77	+35 11.9	1.579	2.524	8.1	20.0
2 21	9 7.40	+35 12.8	1.644	2.556	10.7	20.2
3 2	8 59.29	+34 49.1	1.733	2.588	13.6	20.4
3 12	8 54.16	+34 5.8	1.842	2.619	16.2	20.7
14539 Clocke Roeland			2 7.6 303°.88		1°.9/ 8.8 18	
1 2	9 44.72	+ 8 29.6	1.645	2.442	16.5	18.8
1 12	9 41.46	+ 8 42.4	1.548	2.426	13.1	18.5
1 22	9 35.56	+ 9 13.0	1.472	2.410	9.0	18.3
2 1	9 27.56	+ 9 59.3	1.420	2.395	4.4	17.9
2 11	9 18.45	+10 56.4	1.396	2.380	2.2	17.8
2 21	9 9.46	+11 57.5	1.399	2.365	6.6	18.0
3 2	9 1.86	+12 55.7	1.427	2.351	11.3	18.2
3 12	8 56.68	+13 45.3	1.479	2.336	15.5	18.4
209418 2004 FE_{35}			2 7.6 119°.47		4°.9/ 4.3 18	
1 2	9 53.99	+31 1.0	2.365	3.163	12.0	19.9
1 12	9 47.62	+31 23.1	2.288	3.165	9.5	19.7
1 22	9 38.97	+31 41.0	2.235	3.167	6.8	19.6
2 1	9 28.74	+31 49.1	2.211	3.169	5.0	19.4
2 11	9 17.92	+31 42.8	2.217	3.171	5.5	19.5
2 21	9 7.61	+31 20.1	2.252	3.173	7.7	19.6
3 2	8 58.78	+30 41.5	2.314	3.175	10.4	19.8
3 12	8 52.15	+29 49.5	2.401	3.176	12.9	20.0
383792 2007 WX_{41}			2 7.6 77°.72		0°.4/ 7.9 18	
1 2	9 45.74	+11 59.9	2.324	3.108	12.7	22.2
1 12	9 41.12	+12 24.5	2.256	3.131	9.7	22.1
1 22	9 34.68	+12 58.8	2.213	3.153	6.3	21.9
2 1	9 26.99	+13 39.5	2.198	3.175	2.6	21.7
2 11	9 18.84	+14 22.4	2.212	3.197	1.2	21.6
2 21	9 11.06	+15 3.2	2.257	3.219	4.8	21.9
3 2	9 4.43	+15 38.4	2.330	3.241	8.2	22.2
3 12	8 59.54	+16 5.7	2.429	3.262	11.0	22.4
267486 2002 GY_{137}			2 7.6 344°.05		8°.8/31.6 18	
1 2	9 48.57	+34 32.9	1.688	2.514	14.9	19.9
1 12	9 44.75	+36 10.3	1.623	2.509	12.1	19.7
1 22	9 37.80	+37 43.6	1.580	2.504	9.8	19.5
2 1	9 28.46	+39 1.5	1.563	2.500	8.8	19.5
2 11	9 18.03	+39 54.0	1.571	2.497	9.9	19.5
2 21	9 8.07	+40 15.8	1.604	2.494	12.4	19.7
3 2	9 0.03	+40 6.6	1.660	2.491	15.2	19.8
3 12	8 54.94	+39 30.5	1.734	2.489	17.9	20.0
327312 2005 UB_{18}			2 7.6 85°.03		2°.7/ 5.7 18	
1 2	9 49.80	+20 45.1	1.841	2.651	14.5	21.2
1 12	9 44.84	+21 23.5	1.773	2.664	11.0	21.0
1 22	9 37.39	+22 7.2	1.729	2.676	7.1	20.8
2 1	9 28.15	+22 50.1	1.712	2.688	3.5	20.5
2 11	9 18.24	+23 25.6	1.723	2.700	3.6	20.6
2 21	9 8.83	+23 49.1	1.763	2.713	7.2	20.8
3 2	9 1.01	+23 58.3	1.829	2.724	10.9	21.1
3 12	8 55.56	+23 53.3	1.919	2.736	14.2	21.3
10746 Mühlhausen			2 7.6 225°.93		0°.9/ 6.9 18	
1 2	9 50.78	+17 28.1	2.258	3.049	12.8	18.1
1 12	9 45.30	+17 35.5	2.161	3.040	9.8	17.9
1 22	9 37.61	+17 48.6	2.088	3.032	6.4	17.7
2 1	9 28.27	+18 3.7	2.043	3.022	2.6	17.4
2 11	9 18.17	+18 17.0	2.029	3.013	1.9	17.4
2 21	9 8.30	+18 25.0	2.045	3.003	5.7	17.6
3 2	8 59.64	+18 25.5	2.090	2.992	9.4	17.8
3 12	8 52.97	+18 17.6	2.160	2.981	12.6	18.0
210729 2000 TG_{8}			2 7.6 220°.74		2°.7/10.3 17	
1 2	9 42.98	+ 3 24.3	2.911	3.655	11.3	21.1
1 12	9 38.87	+ 3 33.8	2.806	3.647	9.1	21.0
1 22	9 33.22	+ 3 56.0	2.724	3.638	6.6	20.8
2 1	9 26.45	+ 4 29.9	2.669	3.630	4.0	20.6
2 11	9 19.13	+ 5 13.2	2.645	3.621	2.7	20.5
2 21	9 11.92	+ 6 2.6	2.651	3.612	4.4	20.6
3 2	9 5.46	+ 6 54.3	2.687	3.602	7.0	20.7
3 12	9 0.33	+ 7 44.5	2.750	3.592	9.6	20.9

21184 1994 EC_5 2 7.6 181°.45 1°.8/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.72	+18 41.3	1.755	2.562	15.2	18.8
1 12	9 46.56	+19 4.5	1.674	2.562	11.7	18.6
1 22	9 38.67	+19 34.9	1.616	2.563	7.6	18.3
2 1	9 28.76	+20 7.1	1.584	2.563	3.2	18.1
2 11	9 17.94	+20 34.9	1.581	2.562	2.9	18.0
2 21	9 7.54	+20 53.3	1.606	2.562	7.2	18.3
3 2	8 58.77	+20 59.7	1.658	2.561	11.4	18.5
3 12	8 52.55	+20 53.3	1.733	2.560	15.0	18.8

160740 2000 RW_{69} 2 7.6 180°.46 1°.5/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.44	+17 11.3	2.063	2.857	13.7	21.2
1 12	9 45.97	+17 49.6	1.978	2.859	10.5	21.0
1 22	9 38.12	+18 36.2	1.916	2.860	6.8	20.8
2 1	9 28.50	+19 26.0	1.882	2.861	2.8	20.5
2 11	9 18.08	+20 12.8	1.878	2.860	2.5	20.5
2 21	9 7.94	+20 51.6	1.905	2.859	6.4	20.8
3 2	8 59.17	+21 18.9	1.959	2.857	10.2	21.0
3 12	8 52.58	+21 33.4	2.038	2.854	13.5	21.2

101567 1999 AW_{22} 2 7.6 263°.96 14°.0/25.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 10.53	+55 38.2	2.028	2.770	15.7	18.9
1 12	10 2.71	+57 16.0	1.969	2.754	14.6	18.8
1 22	9 50.03	+58 34.0	1.930	2.738	14.0	18.7
2 1	9 33.54	+59 19.0	1.912	2.721	14.2	18.7
2 11	9 15.48	+59 21.4	1.916	2.704	15.0	18.7
2 21	8 58.57	+58 39.2	1.941	2.687	16.3	18.8
3 2	8 45.11	+57 17.1	1.984	2.670	17.9	18.9
3 12	8 36.36	+55 24.7	2.044	2.653	19.4	19.0

218666 2005 SW_{214} 2 7.6 136°.61 2°.6/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.24	+ 5 49.3	2.302	3.059	13.6	21.4
1 12	9 43.11	+ 5 48.9	2.219	3.071	10.8	21.2
1 22	9 36.04	+ 6 1.9	2.160	3.083	7.6	21.1
2 1	9 27.60	+ 6 26.8	2.128	3.095	4.3	20.9
2 11	9 18.58	+ 7 0.6	2.126	3.106	2.7	20.8
2 21	9 9.86	+ 7 39.3	2.154	3.116	5.1	21.0
3 2	9 2.28	+ 8 18.9	2.211	3.126	8.3	21.2
3 12	8 56.49	+ 8 55.5	2.294	3.135	11.3	21.4

288537 2004 GQ_{20} 2 7.6 229°.75 5°.5/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.52	+27 51.0	2.085	2.897	12.9	20.9
1 12	9 44.81	+29 13.3	2.001	2.889	10.1	20.7
1 22	9 37.56	+30 37.7	1.942	2.879	7.3	20.5
2 1	9 28.34	+31 56.1	1.911	2.870	5.6	20.3
2 11	9 18.16	+33 0.1	1.909	2.860	6.5	20.4
2 21	9 8.18	+33 43.9	1.935	2.849	9.2	20.5
3 2	8 59.59	+34 5.1	1.986	2.839	12.2	20.7
3 12	8 53.31	+34 4.8	2.060	2.827	15.0	20.9

85613 1998 HC_{33} 2 7.6 10°.35 7°.3/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.41	+34 23.9	1.912	2.728	13.8	18.8
1 12	9 45.57	+35 17.8	1.848	2.730	11.1	18.6
1 22	9 37.99	+36 5.7	1.807	2.733	8.6	18.5
2 1	9 28.45	+36 39.3	1.791	2.736	7.3	18.4
2 11	9 18.16	+36 51.9	1.803	2.739	8.0	18.4
2 21	9 8.46	+36 40.6	1.841	2.743	10.3	18.6
3 2	9 0.55	+36 6.1	1.902	2.748	13.0	18.8
3 12	8 55.24	+35 12.2	1.985	2.753	15.5	18.9

205747 2002 CG_{17} 2 7.6 92°.45 1°.5/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.21	+17 49.6	1.529	2.339	16.9	20.1
1 12	9 47.88	+18 6.4	1.461	2.351	13.0	19.8
1 22	9 39.57	+18 31.3	1.415	2.363	8.3	19.6
2 1	9 29.11	+18 58.9	1.395	2.374	3.4	19.3
2 11	9 17.82	+19 22.6	1.403	2.386	2.7	19.3
2 21	9 7.17	+19 37.3	1.438	2.397	7.5	19.6
3 2	8 58.48	+19 40.4	1.499	2.408	12.0	19.9
3 12	8 52.63	+19 31.5	1.583	2.419	15.8	20.2

451042 2008 YE 2 7.6 50°.33 0°.9/ 7.1 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.19	+13 42.5	1.236	2.061	19.3	21.7
1 12	9 44.49	+14 28.5	1.181	2.078	14.8	21.5
1 22	9 37.58	+15 31.2	1.146	2.096	9.5	21.2
2 1	9 28.34	+16 43.1	1.134	2.114	3.7	20.9
2 11	9 18.23	+17 54.3	1.149	2.133	2.5	20.9
2 21	9 8.86	+18 55.6	1.189	2.152	8.0	21.3
3 2	9 1.65	+19 41.0	1.254	2.172	13.0	21.6
3 12	8 57.48	+20 8.2	1.340	2.192	17.2	21.9

345610 2006 SV_{191} 2 7.6 350°.68 4°.6/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 40.85	− 0 21.3	2.025	2.778	15.3	20.6
1 12	9 37.88	− 0 15.5	1.932	2.774	12.6	20.4
1 22	9 32.90	+ 0 11.0	1.861	2.770	9.5	20.2
2 1	9 26.41	+ 0 57.9	1.814	2.767	6.4	20.0
2 11	9 19.19	+ 2 2.2	1.794	2.764	4.6	19.9
2 21	9 12.17	+ 3 18.5	1.802	2.762	6.1	20.0
3 2	9 6.23	+ 4 40.2	1.838	2.761	9.2	20.1
3 12	9 2.13	+ 6 0.2	1.899	2.760	12.4	20.3

322432 2011 SQ_{214} 2 7.6 70°.69 4°.0/10.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.33	+ 3 37.7	1.513	2.293	18.5	20.7
1 12	9 43.35	+ 3 36.7	1.442	2.305	14.9	20.4
1 22	9 36.65	+ 3 57.9	1.390	2.316	10.7	20.2
2 1	9 27.96	+ 4 39.9	1.362	2.328	6.3	20.0
2 11	9 18.42	+ 5 38.0	1.361	2.340	4.1	19.9
2 21	9 9.34	+ 6 45.1	1.387	2.351	6.9	20.1
3 2	9 1.93	+ 7 53.3	1.439	2.363	11.1	20.3
3 12	8 57.08	+ 8 55.6	1.513	2.375	15.0	20.6

376498 2012 KP_{38} 2 7.6 198°.71 4°.0/ 3.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.93	+26 20.7	2.572	3.374	11.1	21.7
1 12	9 43.78	+27 23.2	2.487	3.370	8.6	21.5
1 22	9 36.58	+28 27.1	2.427	3.366	5.9	21.3
2 1	9 27.87	+29 26.7	2.397	3.361	4.1	21.2
2 11	9 18.46	+30 15.9	2.397	3.355	4.8	21.2
2 21	9 9.25	+30 50.7	2.427	3.349	7.2	21.4
3 2	9 1.15	+31 9.1	2.484	3.343	9.9	21.5
3 12	8 54.89	+31 11.4	2.565	3.335	12.3	21.7

372533 2009 TZ 2 7.6 181°.80 3°.5/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.36	+ 5 8.5	2.099	2.859	14.6	20.8
1 12	9 43.49	+ 4 44.7	2.008	2.860	11.8	20.6
1 22	9 36.47	+ 4 34.5	1.940	2.860	8.5	20.4
2 1	9 27.84	+ 4 37.6	1.897	2.860	5.1	20.2
2 11	9 18.48	+ 4 52.3	1.883	2.860	3.6	20.1
2 21	9 9.36	+ 5 15.1	1.899	2.859	5.8	20.2
3 2	9 1.45	+ 5 42.0	1.943	2.858	9.2	20.4
3 12	8 55.49	+ 6 9.0	2.011	2.858	12.5	20.6

425421 2010 CR_{185} 2 7.6 311°.22 0°.7/ 8.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.54	+10 34.3	2.100	2.890	13.6	20.9
1 12	9 39.92	+11 1.2	2.007	2.883	10.6	20.7
1 22	9 34.22	+11 41.2	1.937	2.877	7.1	20.5
2 1	9 26.96	+12 31.3	1.893	2.870	3.1	20.2
2 11	9 18.95	+13 26.7	1.879	2.864	1.4	20.0
2 21	9 11.12	+14 22.0	1.894	2.858	5.4	20.3
3 2	9 4.41	+15 12.3	1.937	2.852	9.3	20.5
3 12	8 59.57	+15 53.8	2.004	2.847	12.6	20.7

426030 2011 QM_1 2 7.6 274°.88 4°.0/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 41.83	− 0 33.7	2.441	3.178	13.4	21.2
1 12	9 38.30	− 0 18.9	2.341	3.173	11.0	21.0
1 22	9 33.02	+ 0 13.9	2.263	3.167	8.3	20.9
2 1	9 26.43	+ 1 4.1	2.211	3.162	5.5	20.7
2 11	9 19.22	+ 2 9.0	2.187	3.157	4.0	20.6
2 21	9 12.15	+ 3 24.1	2.193	3.152	5.3	20.6
3 2	9 5.97	+ 4 43.6	2.228	3.146	8.1	20.8
3 12	9 1.34	+ 6 1.9	2.290	3.141	11.0	21.0

381620 2008 WB_{136} 2 7.6 32°.13 4°.3/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.81	+23 12.7	1.884	2.706	13.7	20.1
1 12	9 41.17	+24 32.6	1.817	2.713	10.5	19.9
1 22	9 35.13	+25 57.6	1.774	2.720	7.0	19.7
2 1	9 27.33	+27 19.7	1.758	2.728	4.5	19.6
2 11	9 18.78	+28 30.5	1.771	2.737	5.2	19.7
2 21	9 10.59	+29 24.1	1.811	2.746	8.3	19.9
3 2	9 3.85	+29 57.4	1.877	2.755	11.6	20.1
3 12	8 59.35	+30 10.6	1.965	2.764	14.6	20.3

293239 2007 BC_{71} 2 7.6 328°.39 0°.9/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.99	+12 33.7	1.729	2.529	15.7	20.9
1 12	9 43.73	+12 28.6	1.642	2.524	12.3	20.6
1 22	9 36.89	+12 34.9	1.577	2.519	8.2	20.4
2 1	9 28.09	+12 49.7	1.537	2.514	3.6	20.1
2 11	9 18.37	+13 9.1	1.525	2.510	1.7	19.9
2 21	9 8.96	+13 28.4	1.541	2.506	6.3	20.2
3 2	9 1.04	+13 43.8	1.584	2.503	10.7	20.5
3 12	8 55.51	+13 52.4	1.650	2.499	14.6	20.7

464694 2002 AK_{41} 2 7.6 8°.54 1°.8/ 6.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 38.45	+12 45.7	1.210	2.050	18.7	20.1
1 12	9 37.27	+14 13.5	1.146	2.052	14.3	19.9
1 22	9 33.10	+16 3.8	1.102	2.056	9.1	19.6
2 1	9 26.63	+18 7.4	1.081	2.062	3.6	19.3
2 11	9 19.14	+20 10.9	1.087	2.070	3.3	19.3
2 21	9 12.10	+22 0.9	1.117	2.079	8.7	19.6
3 2	9 6.93	+23 28.0	1.171	2.089	13.7	19.9
3 12	9 4.60	+24 28.0	1.246	2.101	18.0	20.2

140251 2001 SN_{255} 2 7.6 321°.78 0°.3/ 7.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.27	+13 17.0	1.315	2.138	18.5	19.6
1 12	9 43.28	+13 45.2	1.233	2.129	14.4	19.3
1 22	9 37.07	+14 30.7	1.171	2.120	9.4	19.0
2 1	9 28.30	+15 28.5	1.132	2.111	3.8	18.6
2 11	9 18.25	+16 30.4	1.118	2.103	2.2	18.5
2 21	9 8.49	+17 27.6	1.131	2.096	8.0	18.8
3 2	9 0.59	+18 13.0	1.167	2.089	13.4	19.1
3 12	8 55.72	+18 42.3	1.225	2.082	18.1	19.4

435196 2007 RW_{111} 2 7.6 163.°56 0.°9/ 8.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 44.80	+10 3.9	2.505	3.281	12.1	22.0
1 12	9 40.45	+10 25.2	2.416	3.284	9.4	21.8
1 22	9 34.35	+10 57.2	2.351	3.286	6.3	21.6
2 1	9 26.96	+11 37.5	2.313	3.289	2.9	21.4
2 11	9 19.00	+12 22.2	2.306	3.291	1.3	21.3
2 21	9 11.25	+13 7.3	2.330	3.293	4.6	21.5
3 2	9 4.47	+13 49.0	2.382	3.295	7.9	21.7
3 12	8 59.29	+14 24.3	2.460	3.296	10.8	21.9

386774 2010 CK_{225} 2 7.6 56.°32 5.°8/11.9 18

1 2	9 45.63	− 2 4.3	2.257	2.983	14.7	20.9
1 12	9 41.24	− 2 46.8	2.171	2.990	12.3	20.7
1 22	9 34.92	− 3 12.7	2.107	2.996	9.6	20.5
2 1	9 27.20	− 3 20.6	2.068	3.003	7.1	20.4
2 11	9 18.87	− 3 11.2	2.056	3.010	5.8	20.3
2 21	9 10.78	− 2 46.9	2.073	3.017	6.7	20.4
3 2	9 3.77	− 2 12.0	2.117	3.025	9.0	20.5
3 12	8 58.51	− 1 31.5	2.186	3.032	11.6	20.7

519622 2012 UR_{181} 2 7.6 274.°38 2.°5/ 5.5 17

1 2	9 45.49	+21 12.8	2.386	3.192	11.7	21.6
1 12	9 41.21	+21 53.0	2.298	3.187	8.9	21.4
1 22	9 34.95	+22 37.7	2.235	3.181	5.8	21.2
2 1	9 27.23	+23 22.1	2.201	3.176	3.0	21.0
2 11	9 18.85	+24 1.1	2.196	3.171	3.2	21.0
2 21	9 10.70	+24 30.5	2.220	3.166	6.2	21.2
3 2	9 3.64	+24 47.8	2.272	3.161	9.4	21.4
3 12	8 58.37	+24 52.3	2.348	3.156	12.2	21.6

110317 2001 SE_{280} 2 7.6 125.°45 1.°6/ 6.4 18

1 2	9 48.97	+17 42.7	1.975	2.778	13.9	19.8
1 12	9 44.11	+18 18.8	1.899	2.786	10.6	19.6
1 22	9 36.92	+19 2.6	1.847	2.794	6.8	19.4
2 1	9 28.05	+19 48.8	1.823	2.801	2.9	19.1
2 11	9 18.47	+20 31.6	1.827	2.809	2.6	19.1
2 21	9 9.27	+21 5.9	1.861	2.816	6.4	19.4
3 2	9 1.48	+21 28.7	1.922	2.823	10.2	19.6
3 12	8 55.87	+21 38.6	2.007	2.829	13.4	19.8

209365 2004 DO_{64} 2 7.6 323.°46 8.°1/ 1.8 18

1 2	9 51.42	+36 7.9	1.905	2.719	14.0	19.4
1 12	9 46.68	+37 5.2	1.824	2.702	11.5	19.2
1 22	9 38.96	+37 56.2	1.766	2.686	9.2	19.0
2 1	9 28.97	+38 31.9	1.733	2.670	8.1	18.9
2 11	9 17.97	+38 44.3	1.726	2.655	8.9	18.9
2 21	9 7.39	+38 29.8	1.745	2.640	11.2	19.0
3 2	8 58.61	+37 48.8	1.788	2.626	14.0	19.2
3 12	8 52.62	+36 45.3	1.852	2.613	16.7	19.3

437961 2002 VE_{14} 2 7.6 118.°75 14.°2/15.0 18

1 2	9 53.66	−12 19.3	1.333	2.035	24.1	20.8
1 12	9 48.80	−14 19.0	1.265	2.045	21.5	20.6
1 22	9 40.58	−15 47.8	1.212	2.054	18.6	20.4
2 1	9 29.71	−16 36.7	1.178	2.063	15.9	20.3
2 11	9 17.57	−16 40.7	1.165	2.072	14.3	20.2
2 21	9 5.82	−16 1.5	1.174	2.080	14.5	20.3
3 2	8 56.09	−14 47.5	1.205	2.088	16.3	20.4
3 12	8 49.55	−13 12.2	1.256	2.096	18.8	20.6

171851 2001 MG 2 7.6 169.°24 3.°2/10.5 18

1 2	9 44.89	+ 3 1.0	2.685	3.427	12.2	20.5
1 12	9 40.39	+ 2 55.7	2.591	3.430	9.9	20.3
1 22	9 34.25	+ 3 3.3	2.521	3.433	7.2	20.1
2 1	9 26.92	+ 3 23.3	2.477	3.435	4.5	19.9
2 11	9 19.05	+ 3 53.6	2.463	3.437	3.2	19.9
2 21	9 11.36	+ 4 31.0	2.480	3.438	4.8	20.0
3 2	9 4.56	+ 5 11.8	2.525	3.439	7.5	20.1
3 12	8 59.23	+ 5 52.3	2.598	3.440	10.1	20.3

352783 2008 UT_{97} 2 7.6 89.°55 3.°5/ 5.4 18

1 2	9 51.83	+20 6.0	1.478	2.297	17.0	21.1
1 12	9 46.98	+21 8.3	1.418	2.314	12.9	20.8
1 22	9 39.08	+22 18.8	1.381	2.330	8.3	20.6
2 1	9 28.97	+23 28.8	1.369	2.346	4.2	20.4
2 11	9 18.03	+24 28.7	1.385	2.362	4.5	20.5
2 21	9 7.75	+25 11.6	1.429	2.377	8.7	20.7
3 2	8 59.48	+25 34.5	1.497	2.393	12.9	21.0
3 12	8 54.12	+25 38.0	1.587	2.408	16.5	21.3

419529 2010 KL_{73} 2 7.6 206.°67 3.°6/10.1 17

1 2	9 49.82	+ 3 50.9	2.209	2.957	14.3	22.0
1 12	9 44.61	+ 3 36.2	2.108	2.951	11.6	21.8
1 22	9 37.24	+ 3 36.1	2.029	2.945	8.5	21.6
2 1	9 28.22	+ 3 50.3	1.977	2.937	5.2	21.4
2 11	9 18.38	+ 4 16.7	1.954	2.929	3.7	21.2
2 21	9 8.69	+ 4 51.7	1.961	2.920	5.8	21.3
3 2	9 0.11	+ 5 31.1	1.997	2.910	9.2	21.5
3 12	8 53.44	+ 6 10.1	2.059	2.900	12.4	21.7

240089 2002 BH_{21} 2 7.6 359.°98 23.°7/19.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	10 1.79	+55 4.3	0.911	1.730	25.0	19.3
1 12	10 0.33	+58 31.7	0.889	1.728	23.9	19.3
1 22	9 50.94	+61 22.4	0.883	1.727	23.7	19.2
2 1	9 34.55	+63 11.3	0.892	1.726	24.4	19.3
2 11	9 15.17	+63 42.5	0.914	1.727	25.7	19.4
2 21	8 58.19	+62 56.0	0.948	1.728	27.5	19.5
3 2	8 47.61	+61 5.2	0.993	1.730	29.3	19.7
3 12	8 44.54	+58 28.6	1.046	1.733	30.9	19.8

187606 2006 XB_{69} 2 7.6 27.°46 1.°0/ 6.9 18

1 2	9 46.31	+14 58.3	1.703	2.513	15.5	20.5
1 12	9 42.48	+15 37.9	1.626	2.515	11.9	20.3
1 22	9 36.09	+16 29.6	1.570	2.518	7.7	20.0
2 1	9 27.79	+17 28.1	1.541	2.520	3.0	19.8
2 11	9 18.64	+18 26.3	1.539	2.523	2.2	19.7
2 21	9 9.84	+19 17.7	1.566	2.526	6.8	20.0
3 2	9 2.55	+19 57.3	1.619	2.529	11.1	20.3
3 12	8 57.64	+20 22.6	1.695	2.533	14.8	20.5

409205 2003 WL_{27} 2 7.6 137.°58 2.°1/ 8.9 18

1 2	9 50.34	+ 8 33.6	1.900	2.676	15.4	21.6
1 12	9 45.17	+ 8 32.4	1.820	2.686	12.1	21.4
1 22	9 37.64	+ 8 45.0	1.762	2.695	8.3	21.2
2 1	9 28.37	+ 9 9.2	1.731	2.703	4.2	20.9
2 11	9 18.37	+ 9 41.3	1.728	2.711	2.3	20.8
2 21	9 8.74	+10 16.5	1.755	2.719	5.8	21.1
3 2	9 0.53	+10 50.3	1.809	2.726	9.8	21.3
3 12	8 54.53	+11 18.9	1.888	2.732	13.3	21.5

165200 2000 RK_{49} 2 7.6 228.°03 2.°8/ 9.6 17

1 2	9 48.82	+ 5 34.5	1.943	2.710	15.4	21.3
1 12	9 44.22	+ 5 43.2	1.841	2.698	12.4	21.0
1 22	9 37.21	+ 6 9.1	1.760	2.686	8.8	20.8
2 1	9 28.28	+ 6 51.0	1.705	2.674	4.9	20.5
2 11	9 18.36	+ 7 45.0	1.679	2.660	2.9	20.3
2 21	9 8.54	+ 8 45.6	1.683	2.646	6.0	20.5
3 2	8 59.93	+ 9 46.7	1.714	2.632	10.1	20.7
3 12	8 53.47	+10 42.8	1.770	2.616	13.9	20.9

385176 2013 WU_{5} 2 7.6 111.°01 5.°7/ 2.6 18

1 2	9 49.81	+31 23.4	2.318	3.125	12.0	20.6
1 12	9 44.62	+32 29.7	2.256	3.136	9.4	20.5
1 22	9 37.18	+33 33.1	2.218	3.147	7.0	20.3
2 1	9 28.15	+34 26.5	2.208	3.158	5.7	20.3
2 11	9 18.50	+35 3.9	2.227	3.168	6.4	20.3
2 21	9 9.27	+35 22.0	2.274	3.178	8.5	20.5
3 2	9 1.44	+35 20.1	2.347	3.188	11.0	20.7
3 12	8 55.73	+35 0.3	2.443	3.198	13.3	20.8

361182 2006 QV_{32} 2 7.6 216.°96 2.°6/ 9.8 17

1 2	9 47.37	+ 4 24.8	2.262	3.016	13.9	22.3
1 12	9 42.76	+ 4 48.6	2.156	3.006	11.1	22.1
1 22	9 36.07	+ 5 29.2	2.074	2.996	7.9	21.8
2 1	9 27.78	+ 6 25.1	2.018	2.985	4.4	21.6
2 11	9 18.66	+ 7 32.3	1.993	2.973	2.6	21.4
2 21	9 9.63	+ 8 45.5	1.997	2.960	5.3	21.6
3 2	9 1.61	+ 9 58.8	2.032	2.947	8.9	21.8
3 12	8 55.40	+11 6.8	2.092	2.933	12.3	22.0

492601 2014 OD_{205} 2 7.6 199.°15 2.°4/ 6.1 18

1 2	9 52.64	+19 55.8	1.840	2.644	14.7	22.3
1 12	9 47.25	+20 26.3	1.755	2.641	11.3	22.0
1 22	9 39.18	+21 3.1	1.693	2.639	7.4	21.8
2 1	9 29.07	+21 40.4	1.658	2.635	3.4	21.5
2 11	9 18.03	+22 11.8	1.652	2.631	3.3	21.5
2 21	9 7.33	+22 32.2	1.675	2.627	7.3	21.7
3 2	8 58.22	+22 38.9	1.725	2.622	11.4	22.0
3 12	8 51.60	+22 31.9	1.798	2.617	14.9	22.2

23131 Debenedictis 2 7.6 79.°81 0.°9/ 8.1 18

1 2	9 52.64	+11 29.5	1.366	2.171	18.9	17.6
1 12	9 47.60	+11 39.8	1.307	2.191	14.6	17.4
1 22	9 39.48	+12 6.0	1.267	2.211	9.6	17.2
2 1	9 29.15	+12 43.7	1.253	2.230	4.2	16.9
2 11	9 18.03	+13 26.0	1.265	2.250	1.9	16.8
2 21	9 7.65	+14 6.2	1.304	2.269	7.1	17.2
3 2	8 59.34	+14 39.0	1.369	2.288	12.0	17.5
3 12	8 54.00	+15 1.1	1.455	2.307	16.1	17.8

415531 2014 QM_{72} 2 7.6 120.°95 2.°4/ 9.5 18

1 2	9 48.15	+ 5 36.2	1.905	2.674	15.6	21.7
1 12	9 43.47	+ 6 0.2	1.828	2.688	12.3	21.5
1 22	9 36.52	+ 6 41.9	1.774	2.702	8.6	21.3
2 1	9 27.93	+ 7 38.6	1.746	2.716	4.5	21.1
2 11	9 18.64	+ 8 45.2	1.746	2.729	2.5	21.0
2 21	9 9.72	+ 9 55.3	1.777	2.741	5.7	21.2
3 2	9 2.16	+11 2.6	1.835	2.753	9.5	21.4
3 12	8 56.73	+12 2.1	1.918	2.764	13.0	21.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
242402 2004 FC_{108}			2 7.6 288°.07		0°.9/ 6.9 16	
	h m	° ′			°	m
1 2	9 46.20	+16 57.7	2.282	3.080	12.4	21.4
1 12	9 41.88	+17 15.2	2.182	3.066	9.6	21.2
1 22	9 35.49	+17 39.5	2.106	3.052	6.2	20.9
2 1	9 27.53	+18 7.1	2.058	3.037	2.5	20.7
2 11	9 18.82	+18 33.7	2.040	3.023	1.9	20.6
2 21	9 10.26	+18 55.4	2.050	3.009	5.6	20.8
3 2	9 2.78	+19 9.3	2.089	2.994	9.3	21.0
3 12	8 57.15	+19 13.7	2.153	2.980	12.5	21.2
417326 2006 CJ_{24}			2 7.6 57°.22		0°.4/ 7.4 18	
1 2	9 49.13	+15 13.4	1.742	2.546	15.4	21.3
1 12	9 44.38	+15 25.3	1.676	2.562	11.8	21.1
1 22	9 37.14	+15 46.6	1.633	2.579	7.6	20.9
2 1	9 28.17	+16 13.0	1.616	2.596	3.0	20.6
2 11	9 18.56	+16 39.3	1.628	2.613	1.7	20.6
2 21	9 9.49	+17 1.0	1.668	2.630	6.2	20.9
3 2	9 2.03	+17 14.8	1.734	2.647	10.3	21.2
3 12	8 56.92	+17 19.1	1.824	2.664	13.8	21.4
354128 2002 BF_{28}			2 7.6 51°.56		3°.1/ 5.7 18	
1 2	9 48.59	+18 27.8	1.342	2.170	17.9	20.5
1 12	9 44.83	+19 30.0	1.280	2.180	13.6	20.2
1 22	9 37.89	+20 43.9	1.239	2.191	8.8	20.0
2 1	9 28.59	+22 0.3	1.223	2.202	4.1	19.7
2 11	9 18.33	+23 8.9	1.234	2.213	4.3	19.8
2 21	9 8.68	+24 1.3	1.271	2.224	8.9	20.1
3 2	9 1.08	+24 33.2	1.331	2.236	13.5	20.3
3 12	8 56.48	+24 44.2	1.413	2.248	17.4	20.6
321084 2008 SE_{147}			2 7.6 173°.91		2°.3/ 9.4 18	
1 2	9 46.21	+ 6 51.9	2.240	3.008	13.6	20.7
1 12	9 41.76	+ 6 53.6	2.150	3.009	10.8	20.5
1 22	9 35.33	+ 7 8.5	2.082	3.010	7.5	20.3
2 1	9 27.45	+ 7 35.2	2.041	3.011	4.1	20.1
2 11	9 18.90	+ 8 10.4	2.030	3.011	2.4	20.0
2 21	9 10.58	+ 8 50.2	2.048	3.011	5.1	20.2
3 2	9 3.35	+ 9 30.2	2.095	3.011	8.6	20.4
3 12	8 57.91	+10 6.5	2.167	3.011	11.8	20.6
136342 2004 CR_{26}			2 7.6 340°.43		2°.0/ 9.6 18	
1 2	9 41.88	+ 3 58.6	2.097	2.866	14.4	19.4
1 12	9 38.68	+ 4 59.4	2.003	2.862	11.4	19.2
1 22	9 33.47	+ 6 21.1	1.930	2.859	7.9	19.0
2 1	9 26.73	+ 8 0.5	1.885	2.856	4.2	18.7
2 11	9 19.25	+ 9 51.4	1.870	2.853	2.1	18.6
2 21	9 11.92	+11 46.0	1.885	2.851	5.2	18.8
3 2	9 5.65	+13 36.0	1.929	2.849	9.1	19.0
3 12	9 1.18	+15 15.0	2.000	2.847	12.5	19.2
146523 2001 SP_{149}			2 7.6 209°.79		1°.0/ 8.4 18	
1 2	9 48.68	+10 36.4	2.355	3.128	12.9	21.2
1 12	9 43.64	+10 47.4	2.255	3.121	10.1	21.0
1 22	9 36.57	+11 9.1	2.179	3.114	6.7	20.8
2 1	9 27.97	+11 39.1	2.130	3.106	3.1	20.5
2 11	9 18.63	+12 13.8	2.112	3.097	1.5	20.4
2 21	9 9.45	+12 49.2	2.125	3.088	5.0	20.6
3 2	9 1.33	+13 21.6	2.167	3.078	8.7	20.8
3 12	8 54.99	+13 48.1	2.235	3.067	11.9	21.0
411189 2010 JV_{45}			2 7.6 159°.16		1°.5/ 6.5 18	
1 2	9 50.12	+16 11.5	1.948	2.746	14.3	22.0
1 12	9 45.10	+17 1.8	1.868	2.752	10.9	21.8
1 22	9 37.67	+18 2.2	1.813	2.758	7.0	21.6
2 1	9 28.44	+19 7.0	1.785	2.763	2.9	21.4
2 11	9 18.41	+20 9.4	1.786	2.768	2.5	21.3
2 21	9 8.72	+21 3.1	1.817	2.772	6.6	21.6
3 2	9 0.43	+21 44.0	1.876	2.775	10.5	21.8
3 12	8 54.38	+22 10.3	1.959	2.778	13.8	22.1
298960 2004 VH_{3}			2 7.6 73°.43		2°.2/ 6.3 18	
1 2	9 52.22	+17 31.3	1.436	2.252	17.5	20.6
1 12	9 47.18	+18 21.4	1.384	2.277	13.3	20.4
1 22	9 39.14	+19 21.7	1.353	2.301	8.5	20.1
2 1	9 29.02	+20 24.1	1.347	2.326	3.6	19.9
2 11	9 18.19	+21 20.0	1.369	2.350	3.4	20.0
2 21	9 8.14	+22 2.5	1.419	2.374	7.9	20.3
3 2	9 0.14	+22 28.2	1.493	2.398	12.3	20.6
3 12	8 55.02	+22 37.0	1.590	2.422	15.9	20.9
188653 2005 SH_{59}			2 7.6 134°.75		0°.2/ 7.8 18	
1 2	9 47.68	+12 33.0	1.970	2.762	14.4	21.3
1 12	9 43.15	+12 55.4	1.888	2.767	11.1	21.1
1 22	9 36.36	+13 29.2	1.829	2.771	7.3	20.9
2 1	9 27.90	+14 10.9	1.798	2.776	3.0	20.6
2 11	9 18.71	+14 55.4	1.795	2.780	1.4	20.5
2 21	9 9.84	+15 37.5	1.822	2.784	5.7	20.8
3 2	9 2.29	+16 12.9	1.876	2.788	9.7	21.0
3 12	8 56.84	+16 38.9	1.954	2.792	13.1	21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
112857 2002 QX_{29}			2 7.6 316°.97		1°.4/ 6.5 18	
	h m	° ′			°	m
1 2	9 45.72	+17 6.4	2.026	2.832	13.5	20.1
1 12	9 41.72	+17 42.0	1.940	2.828	10.3	19.9
1 22	9 35.48	+18 26.1	1.877	2.824	6.7	19.6
2 1	9 27.57	+19 14.1	1.842	2.821	2.8	19.4
2 11	9 18.88	+20 0.1	1.835	2.817	2.4	19.3
2 21	9 10.45	+20 39.0	1.857	2.814	6.3	19.6
3 2	9 3.28	+21 7.0	1.907	2.810	10.1	19.8
3 12	8 58.15	+21 22.4	1.980	2.807	13.4	20.0
38066 1999 FO_{19}			2 7.6 218°.16		0°.2/ 7.8 18	
1 2	9 54.24	+12 48.5	2.023	2.801	14.5	20.0
1 12	9 48.38	+13 9.2	1.919	2.789	11.3	19.7
1 22	9 39.93	+13 41.4	1.837	2.776	7.5	19.5
2 1	9 29.45	+14 21.7	1.784	2.761	3.1	19.2
2 11	9 17.89	+15 4.8	1.761	2.746	1.5	19.0
2 21	9 6.44	+15 45.5	1.768	2.728	6.1	19.3
3 2	8 56.28	+16 19.2	1.804	2.710	10.4	19.5
3 12	8 48.37	+16 43.3	1.866	2.690	14.2	19.7
239229 2006 SU_{60}			2 7.6 153°.52		2°.7/ 4.7 17	
1 2	9 46.03	+23 34.2	3.012	3.809	9.7	21.5
1 12	9 41.19	+24 22.0	2.934	3.817	7.4	21.4
1 22	9 34.75	+25 11.6	2.882	3.824	4.9	21.2
2 1	9 27.17	+25 58.9	2.860	3.831	2.9	21.1
2 11	9 19.12	+26 39.5	2.869	3.837	3.3	21.1
2 21	9 11.29	+27 10.4	2.908	3.843	5.5	21.3
3 2	9 4.38	+27 29.8	2.976	3.848	8.0	21.5
3 12	8 58.92	+27 37.2	3.069	3.853	10.2	21.6
217455 2005 TL_{180}			2 7.6 207°.04		0°.0/ 7.4 18	
1 2	9 46.70	+12 13.9	2.056	2.847	13.9	20.9
1 12	9 42.43	+12 54.5	1.965	2.844	10.7	20.7
1 22	9 35.95	+13 48.0	1.898	2.840	7.0	20.5
2 1	9 27.78	+14 50.3	1.858	2.836	2.9	20.2
2 11	9 18.80	+15 55.7	1.847	2.832	1.5	20.1
2 21	9 10.02	+16 58.0	1.866	2.827	5.8	20.4
3 2	9 2.43	+17 52.1	1.913	2.822	9.7	20.6
3 12	8 56.85	+18 34.5	1.984	2.817	13.2	20.8
335906 2007 RV_{310}			2 7.6 125°.63		2°.2/ 9.4 18	
1 2	9 46.57	+ 7 39.4	2.384	3.150	12.9	20.7
1 12	9 41.88	+ 7 32.2	2.298	3.156	10.2	20.6
1 22	9 35.33	+ 7 36.2	2.235	3.163	7.1	20.4
2 1	9 27.45	+ 7 50.3	2.199	3.169	3.8	20.2
2 11	9 19.00	+ 8 11.7	2.193	3.174	2.3	20.1
2 21	9 10.81	+ 8 37.2	2.217	3.180	4.9	20.3
3 2	9 3.67	+ 9 3.4	2.270	3.186	8.1	20.5
3 12	8 58.23	+ 9 27.0	2.348	3.191	11.0	20.7
16569 1992 DA_{10}			2 7.6 121°.57		1°.6/ 9.2 18	
1 2	9 44.86	+ 7 54.6	2.740	3.503	11.5	19.2
1 12	9 40.31	+ 8 5.2	2.658	3.516	9.0	19.1
1 22	9 34.18	+ 8 26.3	2.600	3.528	6.2	18.9
2 1	9 26.95	+ 8 56.0	2.570	3.541	3.2	18.7
2 11	9 19.26	+ 9 31.3	2.570	3.553	1.7	18.6
2 21	9 11.82	+10 8.9	2.601	3.565	4.2	18.8
3 2	9 5.28	+10 45.5	2.662	3.576	7.1	19.0
3 12	9 0.20	+11 18.1	2.749	3.587	9.8	19.2
164968 2000 AS_{52}			2 7.6 61°.39		1°.1/ 8.3 18	
1 2	9 49.95	+11 17.2	1.484	2.287	17.7	19.3
1 12	9 45.37	+11 22.6	1.421	2.304	13.8	19.1
1 22	9 37.98	+11 42.8	1.379	2.321	9.1	18.8
2 1	9 28.59	+12 13.9	1.362	2.339	4.0	18.6
2 11	9 18.44	+12 50.4	1.372	2.357	1.8	18.5
2 21	9 8.92	+13 26.2	1.409	2.375	6.6	18.8
3 2	9 1.24	+13 56.3	1.472	2.392	11.2	19.1
3 12	8 56.23	+14 17.3	1.558	2.411	15.1	19.4
200733 2001 VA_{57}			2 7.6 153°.40		1°.5/ 8.5 18	
1 2	9 52.54	+10 38.7	1.754	2.538	16.2	20.9
1 12	9 47.13	+10 37.5	1.673	2.545	12.7	20.7
1 22	9 39.07	+10 49.3	1.614	2.551	8.5	20.5
2 1	9 29.06	+11 11.4	1.581	2.557	4.0	20.2
2 11	9 18.20	+11 39.4	1.577	2.562	1.9	20.1
2 21	9 7.74	+12 8.6	1.602	2.566	6.2	20.4
3 2	8 58.86	+12 34.5	1.655	2.570	10.6	20.6
3 12	8 52.44	+12 53.8	1.731	2.574	14.3	20.9
403239 2008 VK_{67}			2 7.6 352°.70		2°.7/ 5.8 18	
1 2	9 46.92	+17 8.9	1.377	2.204	17.6	21.4
1 12	9 43.67	+18 14.9	1.303	2.202	13.5	21.2
1 22	9 37.29	+19 35.5	1.250	2.201	8.7	20.9
2 1	9 28.47	+21 2.3	1.221	2.200	3.9	20.6
2 11	9 18.49	+22 24.6	1.220	2.200	4.0	20.6
2 21	9 8.90	+23 32.6	1.244	2.199	8.9	20.9
3 2	9 1.19	+24 20.2	1.293	2.199	13.7	21.2
3 12	8 56.43	+24 45.7	1.362	2.200	17.8	21.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
127688 2003 EC_{16}			2 7.6 70°.96	4°.5/ 6.4 17		
	h m	° ′			°	m
1 2	10 12.42	+27 43.3	1.355	2.155	19.3	19.0
1 12	10 2.43	+27 27.9	1.308	2.188	14.9	18.8
1 22	9 48.74	+27 7.1	1.282	2.221	10.0	18.6
2 1	9 32.77	+26 33.3	1.282	2.254	5.5	18.5
2 11	9 16.53	+25 42.4	1.313	2.287	5.2	18.5
2 21	9 1.99	+24 35.3	1.372	2.319	9.2	18.8
3 2	8 50.60	+23 16.8	1.458	2.350	13.4	19.2
3 12	8 43.04	+21 52.4	1.567	2.381	17.0	19.5
12612 Daumier			2 7.6 256°.51	2°.0/ 9.1 18		
1 2	9 46.66	+ 7 34.3	1.767	2.552	16.0	18.6
1 12	9 42.79	+ 7 50.9	1.673	2.544	12.7	18.4
1 22	9 36.40	+ 8 25.0	1.600	2.535	8.8	18.1
2 1	9 28.05	+ 9 14.6	1.553	2.526	4.4	17.9
2 11	9 18.70	+10 14.7	1.533	2.517	2.3	17.7
2 21	9 9.52	+11 18.8	1.542	2.507	6.2	17.9
3 2	9 1.68	+12 20.3	1.577	2.498	10.6	18.1
3 12	8 56.12	+13 13.7	1.637	2.488	14.6	18.4
23374 2207 T-$_2$			2 7.6 165°.23	0°.0/ 7.5 18		R
1 2	9 45.09	+13 38.9	2.847	3.627	10.7	20.0
1 12	9 40.52	+14 2.8	2.758	3.631	8.2	19.9
1 22	9 34.35	+14 34.1	2.695	3.635	5.3	19.7
2 1	9 27.05	+15 10.0	2.660	3.638	2.2	19.5
2 11	9 19.26	+15 47.0	2.656	3.641	1.1	19.4
2 21	9 11.66	+16 21.8	2.683	3.643	4.3	19.6
3 2	9 4.93	+16 51.5	2.740	3.646	7.3	19.8
3 12	8 59.64	+17 14.1	2.823	3.647	9.9	20.0
502859 2015 DD_{190}			2 7.6 353°.72	3°.9/ 4.2 17		
1 2	9 45.35	+23 41.5	2.108	2.923	12.7	21.2
1 12	9 41.46	+24 50.1	2.030	2.922	9.7	21.0
1 22	9 35.34	+26 3.0	1.977	2.922	6.6	20.8
2 1	9 27.55	+27 13.5	1.951	2.921	4.1	20.7
2 11	9 19.00	+28 14.3	1.954	2.921	4.8	20.7
2 21	9 10.72	+29 0.2	1.986	2.920	7.7	20.9
3 2	9 3.71	+29 28.2	2.044	2.920	10.9	21.1
3 12	8 58.74	+29 38.2	2.125	2.920	13.7	21.3
194105 2001 SJ_{222}			2 7.6 68°.02	1°.8/ 6.6 18		
1 2	9 50.20	+16 40.6	1.382	2.202	17.9	20.6
1 12	9 45.99	+17 20.6	1.316	2.211	13.7	20.4
1 22	9 38.64	+18 12.8	1.270	2.220	8.8	20.1
2 1	9 28.95	+19 10.2	1.250	2.229	3.6	19.9
2 11	9 18.30	+20 4.0	1.256	2.238	3.1	19.9
2 21	9 8.23	+20 46.7	1.288	2.247	8.1	20.2
3 2	9 0.17	+21 13.7	1.346	2.257	12.9	20.5
3 12	8 55.07	+21 23.9	1.424	2.266	16.9	20.7
127141 2002 GC_{114}			2 7.6 92°.09	0°.6/ 7.2 18		
1 2	9 45.50	+13 41.0	1.979	2.778	14.0	19.8
1 12	9 41.56	+14 24.8	1.896	2.780	10.8	19.6
1 22	9 35.39	+15 20.5	1.837	2.782	7.0	19.4
2 1	9 27.57	+16 23.6	1.804	2.784	2.8	19.1
2 11	9 18.99	+17 27.8	1.801	2.785	1.8	19.0
2 21	9 10.67	+18 27.0	1.827	2.787	6.0	19.3
3 2	9 3.62	+19 16.4	1.880	2.789	9.9	19.5
3 12	8 58.61	+19 52.9	1.957	2.791	13.3	19.8
251343 2007 PL_{29}			2 7.6 123°.79	10°.0/16.2 18		
1 2	9 49.79	−13 55.9	1.483	2.171	22.6	20.5
1 12	9 45.45	−13 49.6	1.408	2.186	19.7	20.3
1 22	9 38.21	−13 3.7	1.348	2.201	16.3	20.1
2 1	9 28.78	−11 34.4	1.308	2.216	12.9	20.0
2 11	9 18.38	− 9 24.4	1.292	2.229	10.4	19.9
2 21	9 8.42	− 6 43.4	1.302	2.242	10.4	19.9
3 2	9 0.24	− 3 46.3	1.340	2.254	12.7	20.1
3 12	8 54.80	− 0 49.6	1.403	2.265	16.0	20.3
44098 1998 FB_{117}			2 7.6 34°.86	1°.2/ 8.2 18		
1 2	9 50.77	+11 55.3	1.253	2.068	19.7	18.0
1 12	9 46.72	+11 50.3	1.181	2.071	15.4	17.7
1 22	9 39.29	+12 1.2	1.129	2.074	10.3	17.4
2 1	9 29.28	+12 24.8	1.100	2.078	4.6	17.1
2 11	9 18.12	+12 55.1	1.096	2.082	2.1	16.9
2 21	9 7.51	+13 25.3	1.119	2.086	7.7	17.3
3 2	8 59.03	+13 49.8	1.165	2.090	13.1	17.6
3 12	8 53.74	+14 4.7	1.233	2.095	17.7	17.9
7684 Marioferrero			2 7.6 235°.13	0°.6/ 7.2 18		R
1 2	9 47.57	+15 37.3	2.100	2.897	13.4	17.7
1 12	9 43.05	+15 57.9	2.010	2.893	10.3	17.5
1 22	9 36.32	+16 26.9	1.944	2.889	6.7	17.3
2 1	9 27.94	+17 0.7	1.906	2.885	2.7	17.0
2 11	9 18.81	+17 34.3	1.896	2.880	1.7	16.9
2 21	9 9.92	+18 3.4	1.916	2.876	5.8	17.2
3 2	9 2.26	+18 24.4	1.964	2.872	9.6	17.4
3 12	8 56.61	+18 35.7	2.036	2.867	12.9	17.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
398720 2012 XK_{105}			2 7.6 124°.64	1°.7/ 8.6 18		
	h m	° ′			°	m
1 2	9 53.24	+10 34.2	1.610	2.398	17.2	21.4
1 12	9 47.82	+10 25.7	1.535	2.409	13.5	21.2
1 22	9 39.59	+10 30.8	1.481	2.419	9.1	21.0
2 1	9 29.30	+10 47.0	1.453	2.428	4.3	20.7
2 11	9 18.15	+11 10.0	1.453	2.437	2.1	20.6
2 21	9 7.49	+11 34.7	1.481	2.446	6.5	20.9
3 2	8 58.60	+11 56.7	1.536	2.454	11.1	21.2
3 12	8 52.36	+12 12.7	1.615	2.462	15.0	21.4
413939 2006 YY_{6}			2 7.6 27°.07	10°.6/15.0 18		
1 2	9 43.16	− 7 58.6	1.269	2.019	22.9	20.2
1 12	9 40.58	− 9 2.6	1.212	2.035	19.7	20.1
1 22	9 35.10	− 9 33.0	1.172	2.053	16.2	19.9
2 1	9 27.50	− 9 25.4	1.150	2.072	12.9	19.7
2 11	9 19.06	− 8 40.5	1.150	2.093	10.8	19.7
2 21	9 11.19	− 7 24.9	1.173	2.115	11.0	19.8
3 2	9 5.16	− 5 49.3	1.219	2.137	13.3	20.0
3 12	9 1.87	− 4 6.5	1.286	2.161	16.3	20.2
474099 2016 LR_{7}			2 7.6 277°.27	4°.0/11.3 17		
1 2	9 42.91	+ 0 26.7	2.254	2.999	14.2	21.7
1 12	9 39.33	+ 0 35.6	2.157	2.994	11.6	21.5
1 22	9 33.84	+ 1 2.8	2.081	2.990	8.7	21.3
2 1	9 26.93	+ 1 47.9	2.030	2.985	5.7	21.1
2 11	9 19.32	+ 2 48.0	2.008	2.980	4.0	21.0
2 21	9 11.87	+ 3 58.3	2.015	2.975	5.6	21.0
3 2	9 5.40	+ 5 13.0	2.051	2.970	8.6	21.2
3 12	9 0.63	+ 6 26.1	2.112	2.966	11.7	21.4
276608 2003 UA_{68}			2 7.6 164°.23	0°.2/ 7.8 18		
1 2	9 45.88	+12 28.1	2.287	3.074	12.8	21.6
1 12	9 41.52	+12 54.6	2.200	3.076	9.9	21.4
1 22	9 35.21	+13 31.5	2.137	3.078	6.5	21.2
2 1	9 27.46	+14 15.5	2.102	3.080	2.7	20.9
2 11	9 19.07	+15 1.9	2.096	3.081	1.3	20.8
2 21	9 10.92	+15 46.4	2.121	3.083	5.1	21.1
3 2	9 3.86	+16 24.8	2.173	3.084	8.7	21.3
3 12	8 58.57	+16 54.6	2.251	3.085	11.8	21.5
152795 1999 TW_{113}			2 7.6 204°.20	3°.4/10.7 18		
1 2	9 45.51	+ 2 14.6	2.463	3.205	13.2	20.7
1 12	9 41.13	+ 2 17.7	2.362	3.201	10.7	20.5
1 22	9 34.93	+ 2 36.1	2.285	3.196	7.9	20.3
2 1	9 27.36	+ 3 9.1	2.234	3.191	5.0	20.1
2 11	9 19.12	+ 3 54.3	2.212	3.186	3.4	20.0
2 21	9 11.03	+ 4 47.6	2.220	3.180	5.2	20.1
3 2	9 3.87	+ 5 44.5	2.258	3.174	8.1	20.2
3 12	8 58.32	+ 6 40.3	2.322	3.167	11.1	20.4
357565 2004 TL_{85}			2 7.6 194°.46	2°.3/ 9.3 18		
1 2	9 49.70	+ 6 51.1	1.928	2.698	15.4	22.3
1 12	9 44.86	+ 7 2.9	1.835	2.696	12.3	22.1
1 22	9 37.61	+ 7 31.0	1.764	2.693	8.5	21.9
2 1	9 28.52	+ 8 13.3	1.719	2.690	4.5	21.6
2 11	9 18.54	+ 9 5.6	1.704	2.686	2.4	21.5
2 21	9 8.76	+10 2.3	1.718	2.682	5.9	21.7
3 2	9 0.28	+10 57.5	1.759	2.676	10.0	21.9
3 12	8 53.98	+11 46.5	1.826	2.670	13.6	22.1
514312 2016 AE_{193}			2 7.7 12°.26	0°.3/ 9.2 18		
1 2	9 27.60	+ 9 52.3	16.805	17.564	2.1	20.7
1 12	9 26.27	+ 9 55.3	16.716	17.573	1.6	20.6
1 22	9 24.74	+ 9 59.8	16.654	17.583	1.1	20.6
2 1	9 23.07	+10 5.4	16.621	17.593	0.6	20.5
2 11	9 21.35	+10 11.7	16.619	17.602	0.3	20.5
2 21	9 19.65	+10 18.5	16.649	17.612	0.7	20.6
3 2	9 18.06	+10 25.3	16.708	17.622	1.3	20.6
3 12	9 16.65	+10 31.8	16.795	17.631	1.8	20.7
18981 2000 RT_{3}			2 7.7 226°.40	4°.7/ 3.9 18		
1 2	9 51.47	+27 43.1	2.227	3.032	12.5	18.5
1 12	9 46.13	+28 34.4	2.140	3.023	9.7	18.3
1 22	9 38.38	+29 26.1	2.077	3.014	6.9	18.1
2 1	9 28.82	+30 11.5	2.042	3.005	4.9	18.0
2 11	9 18.41	+30 44.2	2.037	2.995	5.5	18.0
2 21	9 8.27	+30 59.9	2.060	2.984	8.1	18.1
3 2	8 59.48	+30 57.2	2.110	2.974	11.1	18.3
3 12	8 52.89	+30 37.4	2.183	2.962	13.9	18.4
501269 2013 WE_{15}			2 7.7 148°.53	3°.6/ 4.2 17		
1 2	9 46.78	+24 11.6	2.403	3.210	11.6	21.3
1 12	9 42.25	+25 15.8	2.327	3.215	8.9	21.2
1 22	9 35.69	+26 23.0	2.277	3.219	6.0	21.0
2 1	9 27.67	+27 27.0	2.255	3.223	3.8	20.9
2 11	9 19.01	+28 21.8	2.262	3.227	4.4	20.9
2 21	9 10.60	+29 3.1	2.300	3.231	7.0	21.1
3 2	9 3.35	+29 28.3	2.364	3.234	9.8	21.3
3 12	8 57.94	+29 37.7	2.452	3.237	12.4	21.4

53831 2000 ED_{158} 2 7.7 292.°88 9.°1/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 44.20	− 9 7.6	1.798	2.505	18.5	19.1
1 12	9 40.91	− 9 47.6	1.701	2.496	16.2	18.9
1 22	9 35.21	−10 1.5	1.622	2.486	13.5	18.7
2 1	9 27.61	− 9 45.3	1.565	2.477	10.9	18.5
2 11	9 19.00	− 8 58.3	1.532	2.467	9.2	18.4
2 21	9 10.51	− 7 44.1	1.524	2.458	9.6	18.4
3 2	9 3.25	− 6 9.9	1.542	2.449	11.8	18.5
3 12	8 58.17	− 4 25.6	1.583	2.440	14.7	18.7

495024 2010 UC_{11} 2 7.7 67.°97 9.°0/ 1.2 18

1 2	9 53.54	+35 37.8	1.661	2.479	15.5	20.5
1 12	9 48.47	+37 14.4	1.614	2.494	12.6	20.4
1 22	9 40.18	+38 43.6	1.590	2.509	10.1	20.3
2 1	9 29.56	+39 53.7	1.591	2.524	9.0	20.2
2 11	9 18.10	+40 35.8	1.618	2.540	10.0	20.3
2 21	9 7.40	+40 46.3	1.670	2.555	12.3	20.5
3 2	8 58.88	+40 26.6	1.745	2.570	14.9	20.7
3 12	8 53.43	+39 42.3	1.839	2.586	17.3	20.9

85035 4149 *P–L* 2 7.7 100.°16 1.°6/ 8.9 18

1 2	9 48.93	+ 8 22.7	1.945	2.722	15.1	20.4
1 12	9 44.00	+ 8 43.6	1.876	2.742	11.8	20.2
1 22	9 36.85	+ 9 19.1	1.829	2.763	7.9	20.0
2 1	9 28.14	+10 6.0	1.809	2.782	3.8	19.8
2 11	9 18.82	+10 59.3	1.818	2.802	1.8	19.7
2 21	9 9.94	+11 53.4	1.856	2.821	5.5	19.9
3 2	9 2.45	+12 43.2	1.923	2.839	9.3	20.2
3 12	8 57.06	+13 25.1	2.015	2.857	12.6	20.4

258281 2001 UD_{36} 2 7.7 76.°18 0.°3/ 7.9 18

1 2	9 49.05	+10 48.7	1.826	2.614	15.4	20.7
1 12	9 44.14	+11 36.0	1.769	2.645	11.8	20.6
1 22	9 36.93	+12 37.1	1.734	2.675	7.7	20.4
2 1	9 28.15	+13 47.0	1.727	2.705	3.2	20.2
2 11	9 18.83	+14 58.7	1.750	2.735	1.4	20.1
2 21	9 10.06	+16 5.5	1.801	2.764	5.8	20.4
3 2	9 2.80	+17 2.5	1.881	2.793	9.7	20.7
3 12	8 57.76	+17 46.6	1.985	2.821	13.0	21.0

417810 2007 EW_{205} 2 7.7 180.°40 1.°2/ 8.4 18

1 2	9 49.91	+11 49.9	1.936	2.722	14.8	21.0
1 12	9 44.95	+11 41.1	1.849	2.722	11.5	20.8
1 22	9 37.61	+11 42.5	1.784	2.723	7.7	20.6
2 1	9 28.51	+11 52.1	1.747	2.723	3.5	20.3
2 11	9 18.62	+12 6.3	1.738	2.723	1.7	20.2
2 21	9 9.05	+12 21.4	1.758	2.722	5.8	20.5
3 2	9 0.84	+12 34.0	1.806	2.722	9.8	20.7
3 12	8 54.82	+12 41.5	1.879	2.722	13.4	20.9

520106 2014 AO_{9} 2 7.7 121.°17 2.°3/ 5.6 17

1 2	9 46.98	+20 23.0	2.486	3.285	11.5	21.6
1 12	9 42.21	+21 11.9	2.413	3.298	8.7	21.4
1 22	9 35.57	+22 5.5	2.365	3.310	5.6	21.2
2 1	9 27.61	+22 58.6	2.347	3.322	2.8	21.1
2 11	9 19.11	+23 46.2	2.358	3.334	3.0	21.1
2 21	9 10.92	+24 24.2	2.400	3.346	5.9	21.3
3 2	9 3.83	+24 50.2	2.470	3.357	8.8	21.5
3 12	8 58.48	+25 3.5	2.565	3.368	11.4	21.7

298312 2003 EE_{18} 2 7.7 299.°07 1.°0/ 6.7 17 R

1 2	9 43.61	+15 48.1	2.296	3.096	12.3	20.4
1 12	9 39.95	+16 29.2	2.199	3.084	9.4	20.2
1 22	9 34.31	+17 19.5	2.127	3.073	6.1	20.0
2 1	9 27.17	+18 14.8	2.082	3.061	2.5	19.7
2 11	9 19.30	+19 10.1	2.067	3.050	2.0	19.6
2 21	9 11.57	+20 0.1	2.081	3.039	5.6	19.9
3 2	9 4.86	+20 40.9	2.124	3.027	9.2	20.1
3 12	8 59.90	+21 9.9	2.190	3.016	12.3	20.2

119062 2001 KC_{43} 2 7.7 182.°54 1.°6/ 8.8 18

1 2	9 49.82	+ 7 45.6	1.799	2.577	16.1	20.5
1 12	9 45.12	+ 8 16.3	1.711	2.578	12.7	20.3
1 22	9 37.88	+ 9 5.0	1.644	2.579	8.6	20.0
2 1	9 28.69	+10 8.5	1.604	2.578	4.2	19.8
2 11	9 18.56	+11 20.8	1.593	2.577	1.9	19.6
2 21	9 8.68	+12 34.8	1.611	2.576	6.1	19.9
3 2	9 0.20	+13 43.6	1.657	2.573	10.5	20.1
3 12	8 54.05	+14 42.1	1.727	2.570	14.3	20.3

172131 2002 JT_{24} 2 7.7 220.°41 3.°5/ 5.1 18

1 2	9 50.51	+21 40.3	1.897	2.706	14.2	20.6
1 12	9 45.74	+22 39.7	1.809	2.699	10.9	20.3
1 22	9 38.34	+23 46.0	1.746	2.691	7.2	20.1
2 1	9 28.90	+24 51.9	1.710	2.684	4.0	19.9
2 11	9 18.45	+25 49.6	1.703	2.675	4.4	19.9
2 21	9 8.25	+26 32.8	1.724	2.666	8.0	20.1
3 2	8 59.50	+26 58.0	1.772	2.657	11.8	20.3
3 12	8 53.15	+27 5.0	1.843	2.647	15.2	20.5

313776 2003 YN_{18} 2 7.7 138.°01 0.°8/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.86	+15 0.8	2.095	2.884	13.7	21.5
1 12	9 45.44	+15 37.4	2.020	2.898	10.5	21.3
1 22	9 37.80	+16 23.2	1.968	2.911	6.7	21.1
2 1	9 28.56	+17 13.6	1.945	2.924	2.7	20.9
2 11	9 18.67	+18 3.0	1.952	2.936	1.8	20.8
2 21	9 9.16	+18 46.4	1.989	2.947	5.8	21.1
3 2	9 0.99	+19 20.0	2.054	2.957	9.5	21.3
3 12	8 54.90	+19 42.2	2.145	2.967	12.7	21.6

39381 2603 *P–L* 2 7.7 46.°49 0.°7/ 8.1 18

1 2	9 47.92	+10 46.9	1.243	2.061	19.7	19.5
1 12	9 44.32	+11 14.4	1.187	2.078	15.2	19.3
1 22	9 37.57	+12 1.0	1.151	2.097	10.0	19.1
2 1	9 28.56	+13 1.2	1.138	2.116	4.3	18.8
2 11	9 18.70	+14 6.6	1.151	2.136	1.9	18.7
2 21	9 9.56	+15 8.2	1.189	2.156	7.4	19.1
3 2	9 2.49	+15 59.0	1.252	2.177	12.4	19.4
3 12	8 58.40	+16 35.1	1.337	2.198	16.6	19.7

134773 2000 DS_{27} 2 7.7 62.°67 1.°3/ 8.5 18

1 2	9 49.01	+10 25.3	1.553	2.351	17.3	19.5
1 12	9 44.61	+10 35.0	1.487	2.368	13.4	19.3
1 22	9 37.51	+11 0.1	1.443	2.384	8.9	19.1
2 1	9 28.49	+11 36.9	1.424	2.400	4.1	18.8
2 11	9 18.73	+12 19.8	1.432	2.417	1.8	18.7
2 21	9 9.52	+13 2.5	1.468	2.434	6.4	19.1
3 2	9 2.03	+13 39.8	1.530	2.451	10.9	19.4
3 12	8 57.09	+14 8.0	1.615	2.468	14.7	19.6

192057 2006 BC_{41} 2 7.7 118.°96 1.°9/ 6.2 18

1 2	9 47.30	+18 17.6	2.021	2.826	13.5	20.3
1 12	9 42.93	+18 59.2	1.941	2.829	10.3	20.1
1 22	9 36.30	+19 48.3	1.885	2.832	6.7	19.8
2 1	9 28.00	+20 39.7	1.856	2.834	2.9	19.6
2 11	9 18.96	+21 27.4	1.857	2.837	2.8	19.6
2 21	9 10.23	+22 6.0	1.886	2.840	6.5	19.8
3 2	9 2.82	+22 32.4	1.943	2.842	10.2	20.1
3 12	8 57.50	+22 45.1	2.023	2.844	13.4	20.3

167014 2003 QC_{21} 2 7.7 103.°04 1.°2/ 6.8 18

1 2	9 50.47	+15 5.0	1.757	2.557	15.5	20.1
1 12	9 45.49	+15 55.9	1.692	2.577	11.8	19.9
1 22	9 37.99	+16 58.0	1.650	2.595	7.5	19.7
2 1	9 28.67	+18 5.4	1.634	2.614	3.0	19.5
2 11	9 18.65	+19 10.3	1.648	2.631	2.3	19.4
2 21	9 9.13	+20 6.4	1.691	2.649	6.7	19.8
3 2	9 1.22	+20 49.2	1.761	2.666	10.7	20.0
3 12	8 55.71	+21 16.9	1.855	2.682	14.2	20.3

381700 2009 EW_{12} 2 7.7 347.°99 6.°0/ 3.1 18

1 2	9 45.99	+28 53.5	1.829	2.655	13.9	20.2
1 12	9 42.43	+29 58.2	1.754	2.648	10.9	20.0
1 22	9 36.22	+31 3.2	1.702	2.642	7.9	19.8
2 1	9 28.03	+32 0.0	1.676	2.636	6.1	19.7
2 11	9 18.94	+32 40.7	1.678	2.631	6.9	19.7
2 21	9 10.22	+33 0.4	1.705	2.627	9.7	19.9
3 2	9 3.06	+32 57.4	1.757	2.624	12.8	20.1
3 12	8 58.36	+32 33.6	1.830	2.622	15.8	20.3

324563 2006 WC_{120} 2 7.7 59.°75 4.°9/ 4.9 18

1 2	9 53.22	+25 16.2	1.533	2.355	16.3	20.9
1 12	9 47.93	+26 6.5	1.483	2.377	12.5	20.7
1 22	9 39.66	+26 57.9	1.455	2.400	8.4	20.5
2 1	9 29.34	+27 41.9	1.453	2.423	5.2	20.4
2 11	9 18.37	+28 10.6	1.478	2.446	5.7	20.4
2 21	9 8.22	+28 19.9	1.530	2.470	9.1	20.7
3 2	9 0.16	+28 9.3	1.607	2.493	12.8	21.0
3 12	8 54.98	+27 41.4	1.705	2.516	15.9	21.2

452440 2003 QM_{74} 2 7.7 98.°88 1.°5/ 8.7 18

1 2	9 52.64	+ 9 33.3	1.825	2.603	15.9	21.4
1 12	9 46.89	+ 9 41.8	1.761	2.629	12.3	21.3
1 22	9 38.75	+10 4.0	1.720	2.654	8.3	21.1
2 1	9 28.94	+10 36.6	1.705	2.679	3.9	20.9
2 11	9 18.55	+11 15.0	1.719	2.703	1.9	20.8
2 21	9 8.72	+11 53.9	1.762	2.726	5.8	21.1
3 2	9 0.48	+12 28.9	1.834	2.749	9.7	21.3
3 12	8 54.56	+12 56.7	1.930	2.771	13.2	21.6

243091 2007 QH_{8} 2 7.7 138.°70 0.°9/ 6.9 18

1 2	9 51.25	+15 13.2	1.942	2.735	14.5	21.3
1 12	9 45.94	+15 52.6	1.867	2.747	11.1	21.1
1 22	9 38.22	+16 41.9	1.815	2.759	7.1	20.9
2 1	9 28.78	+17 36.2	1.792	2.771	2.9	20.7
2 11	9 18.61	+18 29.1	1.798	2.781	2.0	20.6
2 21	9 8.83	+19 15.0	1.833	2.791	6.2	20.9
3 2	9 0.52	+19 50.0	1.897	2.800	10.1	21.2
3 12	8 54.44	+20 12.3	1.984	2.809	13.5	21.4

236960 2007 UX_{74} 2 7.7 252°.61 2°.6/ 9.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 44.41	+ 5 27.1	2.376	3.137	13.1	21.1
1 12	9 40.40	+ 5 29.3	2.277	3.131	10.5	20.9
1 22	9 34.53	+ 5 45.0	2.201	3.125	7.4	20.7
2 1	9 27.27	+ 6 13.2	2.152	3.118	4.3	20.5
2 11	9 19.34	+ 6 51.2	2.132	3.112	2.7	20.4
2 21	9 11.56	+ 7 35.0	2.142	3.105	5.0	20.5
3 2	9 4.74	+ 8 20.3	2.180	3.099	8.2	20.7
3 12	8 59.57	+ 9 3.0	2.244	3.092	11.3	20.9

104003 2000 DD_{100} 2 7.7 62°.99 4°.4/ 5.5 18

1 2	9 54.79	+22 18.6	1.227	2.057	19.1	19.1
1 12	9 49.72	+23 7.0	1.178	2.078	14.6	18.9
1 22	9 41.10	+24 1.0	1.150	2.099	9.5	18.6
2 1	9 29.98	+24 50.5	1.146	2.121	5.1	18.5
2 11	9 18.06	+25 25.8	1.167	2.143	5.4	18.5
2 21	9 7.15	+25 41.2	1.215	2.165	9.7	18.8
3 2	8 58.74	+25 35.6	1.286	2.186	14.2	19.1
3 12	8 53.74	+25 11.5	1.377	2.208	18.0	19.4

78638 2002 TF_{37} 2 7.7 27°.01 2°.2/ 6.2 18

1 2	9 46.91	+19 46.8	1.880	2.693	14.1	19.2
1 12	9 42.74	+20 15.5	1.808	2.700	10.8	19.0
1 22	9 36.20	+20 49.9	1.759	2.707	6.9	18.8
2 1	9 27.96	+21 24.9	1.736	2.714	3.2	18.6
2 11	9 19.03	+21 54.8	1.742	2.722	3.1	18.6
2 21	9 10.52	+22 15.0	1.776	2.730	6.8	18.8
3 2	9 3.46	+22 23.0	1.836	2.739	10.5	19.1
3 12	8 58.61	+22 18.3	1.920	2.748	13.8	19.3

209896 2005 MK_{10} 2 7.7 151°.17 0°.0/ 7.5 18

1 2	9 44.52	+12 58.0	2.783	3.563	10.9	21.2
1 12	9 40.15	+13 31.4	2.697	3.570	8.4	21.0
1 22	9 34.19	+14 13.1	2.635	3.576	5.4	20.8
2 1	9 27.08	+15 0.2	2.603	3.581	2.2	20.6
2 11	9 19.47	+15 48.7	2.602	3.587	1.1	20.5
2 21	9 12.06	+16 34.7	2.631	3.592	4.4	20.8
3 2	9 5.53	+17 15.0	2.690	3.597	7.4	21.0
3 12	9 0.44	+17 47.4	2.776	3.601	10.0	21.1

2177 Oliver 2 7.7 168°.37 0°.6/ 7.1 18 R

1 2	9 45.15	+15 35.2	2.724	3.512	10.9	17.5
1 12	9 40.69	+16 2.3	2.636	3.514	8.3	17.3
1 22	9 34.57	+16 36.1	2.573	3.516	5.4	17.1
2 1	9 27.25	+17 13.3	2.539	3.518	2.1	16.9
2 11	9 19.40	+17 50.2	2.536	3.520	1.4	16.8
2 21	9 11.75	+18 23.3	2.563	3.521	4.7	17.1
3 2	9 5.02	+18 49.7	2.619	3.522	7.7	17.3
3 12	8 59.79	+19 7.8	2.701	3.523	10.4	17.5

431465 2007 RV_{289} 2 7.7 77°.21 6°.4/ 1.9 18

1 2	9 50.58	+33 11.8	2.251	3.058	12.3	20.5
1 12	9 45.29	+34 32.1	2.205	3.083	9.8	20.4
1 22	9 37.71	+35 47.5	2.183	3.106	7.5	20.3
2 1	9 28.53	+36 50.3	2.190	3.130	6.4	20.3
2 11	9 18.79	+37 34.2	2.224	3.154	7.2	20.4
2 21	9 9.57	+37 56.1	2.286	3.177	9.1	20.5
3 2	9 1.87	+37 56.2	2.373	3.200	11.4	20.7
3 12	8 56.38	+37 37.1	2.482	3.223	13.4	20.9

98061 2000 RH_{47} 2 7.7 84°.55 0°.5/ 7.4 18

1 2	9 51.94	+14 51.4	1.548	2.353	17.0	19.3
1 12	9 46.90	+15 12.4	1.483	2.370	13.0	19.1
1 22	9 39.03	+15 44.7	1.441	2.387	8.4	18.9
2 1	9 29.14	+16 23.3	1.424	2.403	3.4	18.6
2 11	9 18.48	+17 1.5	1.435	2.419	2.0	18.5
2 21	9 8.44	+17 33.5	1.473	2.435	6.9	18.9
3 2	9 0.25	+17 55.3	1.538	2.451	11.4	19.2
3 12	8 54.75	+18 5.3	1.626	2.467	15.2	19.5

518518 2006 QZ_{187} 2 7.7 212°.28 0°.2/ 7.9 17

1 2	9 45.09	+12 33.9	2.728	3.507	11.1	22.4
1 12	9 40.69	+12 55.8	2.630	3.501	8.6	22.2
1 22	9 34.61	+13 26.2	2.557	3.496	5.7	22.0
2 1	9 27.28	+14 2.6	2.512	3.490	2.4	21.8
2 11	9 19.38	+14 41.4	2.498	3.483	1.1	21.7
2 21	9 11.62	+15 18.9	2.515	3.477	4.5	21.9
3 2	9 4.74	+15 52.0	2.561	3.470	7.6	22.1
3 12	8 59.33	+16 18.3	2.633	3.462	10.4	22.3

317594 2002 XW_{38} 2 7.7 118°.23 0°.9/ 8.4 18

1 2	9 50.79	+10 38.6	2.196	2.969	13.7	21.9
1 12	9 45.18	+10 56.3	2.124	2.990	10.6	21.7
1 22	9 37.53	+11 25.0	2.076	3.011	7.0	21.5
2 1	9 28.45	+12 1.7	2.056	3.032	3.1	21.3
2 11	9 18.83	+12 42.0	2.066	3.051	1.4	21.2
2 21	9 9.62	+13 21.5	2.107	3.070	5.1	21.5
3 2	9 1.70	+13 56.4	2.177	3.088	8.6	21.7
3 12	8 55.71	+14 24.1	2.273	3.105	11.7	22.0

164303 2004 YE_{25} 2 7.7 129°.13 0°.4/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.48	+12 4.5	1.919	2.704	14.9	21.1
1 12	9 46.07	+12 25.8	1.845	2.719	11.6	20.9
1 22	9 38.30	+12 58.9	1.794	2.733	7.6	20.7
2 1	9 28.82	+13 40.0	1.769	2.747	3.2	20.5
2 11	9 18.64	+14 23.8	1.775	2.760	1.4	20.3
2 21	9 8.90	+15 5.1	1.810	2.772	5.8	20.7
3 2	9 0.61	+15 39.7	1.873	2.784	9.8	20.9
3 12	8 54.56	+16 4.9	1.960	2.795	13.2	21.2

492891 2014 QC_{412} 2 7.7 271°.25 0°.7/ 8.1 17

1 2	9 47.33	+10 26.6	1.605	2.404	16.8	22.1
1 12	9 43.73	+10 58.7	1.507	2.389	13.2	21.9
1 22	9 37.30	+11 49.2	1.431	2.374	8.8	21.6
2 1	9 28.60	+12 54.4	1.380	2.358	3.9	21.2
2 11	9 18.67	+14 7.7	1.357	2.342	1.7	21.0
2 21	9 8.82	+15 20.8	1.361	2.326	6.9	21.3
3 2	9 0.42	+16 26.1	1.391	2.310	11.9	21.6
3 12	8 54.59	+17 18.3	1.444	2.293	16.3	21.8

194301 2001 UP_{65} 2 7.7 52°.45 6°.1/ 4.6 18

1 2	9 53.69	+25 47.9	1.223	2.058	18.8	19.4
1 12	9 49.02	+26 51.7	1.176	2.077	14.5	19.2
1 22	9 40.73	+27 57.1	1.150	2.097	9.9	19.0
2 1	9 29.87	+28 52.8	1.148	2.117	6.5	18.8
2 11	9 18.18	+29 28.4	1.171	2.138	7.1	18.9
2 21	9 7.49	+29 38.6	1.219	2.158	10.9	19.2
3 2	8 59.37	+29 23.5	1.289	2.179	14.9	19.5
3 12	8 54.69	+28 47.4	1.380	2.201	18.5	19.8

84528 2002 UP_{9} 2 7.7 35°.10 10°.7/29.3 18

1 2	9 51.82	+42 59.5	1.885	2.690	14.4	18.3
1 12	9 47.23	+44 46.4	1.844	2.701	12.4	18.2
1 22	9 39.46	+46 20.3	1.825	2.712	11.0	18.2
2 1	9 29.37	+47 30.6	1.831	2.724	10.7	18.2
2 11	9 18.38	+48 9.4	1.862	2.736	11.6	18.2
2 21	9 8.09	+48 14.2	1.915	2.749	13.3	18.4
3 2	8 59.90	+47 47.3	1.990	2.762	15.2	18.5
3 12	8 54.72	+46 54.4	2.082	2.775	17.0	18.7

318613 2005 JJ_{69} 2 7.7 97°.30 0°.7/ 8.4 18

1 2	9 43.21	+ 8 46.1	2.336	3.114	12.8	20.7
1 12	9 39.50	+ 9 37.9	2.249	3.118	10.0	20.5
1 22	9 33.95	+10 43.9	2.185	3.122	6.6	20.3
2 1	9 27.04	+12 0.6	2.150	3.126	3.0	20.0
2 11	9 19.52	+13 22.5	2.145	3.130	1.2	19.9
2 21	9 12.18	+14 43.7	2.170	3.134	4.9	20.2
3 2	9 5.85	+15 58.7	2.224	3.137	8.4	20.4
3 12	9 1.16	+17 3.4	2.304	3.141	11.4	20.6

52406 1993 TV_{23} 2 7.7 71°.49 0°.6/ 8.1 18

1 2	9 49.14	+11 8.8	1.684	2.479	16.3	20.0
1 12	9 44.46	+11 36.3	1.623	2.502	12.5	19.8
1 22	9 37.31	+12 18.0	1.584	2.526	8.2	19.6
2 1	9 28.41	+13 9.3	1.571	2.549	3.5	19.4
2 11	9 18.88	+14 4.0	1.587	2.572	1.5	19.3
2 21	9 9.91	+14 55.7	1.631	2.595	6.1	19.6
3 2	9 2.57	+15 39.5	1.702	2.618	10.3	19.9
3 12	8 57.59	+16 12.2	1.796	2.640	13.8	20.2

230435 2002 PQ_{153} 2 7.7 142°.96 0°.7/ 7.2 18

1 2	9 52.42	+13 47.0	1.664	2.461	16.4	21.5
1 12	9 47.25	+14 31.3	1.590	2.472	12.6	21.3
1 22	9 39.30	+15 29.1	1.538	2.483	8.1	21.1
2 1	9 29.30	+16 34.6	1.513	2.492	3.2	20.8
2 11	9 18.42	+17 40.2	1.517	2.501	2.1	20.7
2 21	9 7.97	+18 38.5	1.550	2.509	6.9	21.1
3 2	8 59.22	+19 24.4	1.609	2.517	11.3	21.3
3 12	8 53.05	+19 55.4	1.692	2.523	15.1	21.6

129915 1999 TA_{107} 2 7.7 205°.24 5°.0/11.1 18

1 2	9 50.22	+ 0 22.0	2.192	2.924	14.9	20.2
1 12	9 45.03	− 0 4.8	2.091	2.918	12.4	20.0
1 22	9 37.66	− 0 15.5	2.011	2.912	9.4	19.8
2 1	9 28.62	− 0 9.0	1.957	2.905	6.5	19.6
2 11	9 18.73	+ 0 13.3	1.932	2.897	5.0	19.5
2 21	9 8.97	+ 0 48.5	1.936	2.889	6.4	19.5
3 2	9 0.32	+ 1 31.9	1.969	2.880	9.4	19.7
3 12	8 53.58	+ 2 18.2	2.027	2.870	12.5	19.9

264721 2002 CX_{74} 2 7.7 147°.04 0°.2/ 7.8 18

1 2	9 45.97	+11 36.8	2.034	2.825	14.0	20.6
1 12	9 41.89	+12 14.9	1.950	2.828	10.8	20.4
1 22	9 35.64	+13 6.0	1.889	2.830	7.1	20.2
2 1	9 27.77	+14 6.1	1.854	2.832	3.0	19.9
2 11	9 19.18	+15 9.7	1.849	2.835	1.4	19.8
2 21	9 10.83	+16 10.8	1.874	2.837	5.6	20.1
3 2	9 3.70	+17 4.2	1.926	2.839	9.5	20.3
3 12	8 58.54	+17 46.5	2.003	2.840	12.9	20.5

215339 2001 UN_{203} 2 7.7 92°.89 2°.8/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.99	+ 6 10.2	1.854	2.630	15.7	20.6
1 12	9 42.80	+ 6 10.9	1.772	2.635	12.5	20.4
1 22	9 36.29	+ 6 27.9	1.711	2.640	8.8	20.2
2 1	9 28.05	+ 6 59.8	1.676	2.645	4.9	19.9
2 11	9 19.05	+ 7 42.6	1.669	2.650	2.9	19.8
2 21	9 10.35	+ 8 31.1	1.690	2.655	5.9	20.0
3 2	9 2.99	+ 9 19.9	1.739	2.660	9.8	20.3
3 12	8 57.78	+10 3.9	1.811	2.664	13.3	20.5

266929 2010 GB_{158} 2 7.7 213°.81 2°.6/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.61	+ 3 8.1	3.220	3.955	10.5	21.9
1 12	9 39.31	+ 3 13.4	3.111	3.947	8.5	21.7
1 22	9 33.60	+ 3 30.1	3.027	3.938	6.2	21.6
2 1	9 26.87	+ 3 57.4	2.971	3.929	3.9	21.4
2 11	9 19.64	+ 4 33.3	2.945	3.919	2.6	21.3
2 21	9 12.49	+ 5 15.1	2.950	3.909	4.1	21.4
3 2	9 6.02	+ 5 59.7	2.985	3.898	6.5	21.5
3 12	9 0.74	+ 6 43.6	3.048	3.887	8.9	21.7

179914 2002 VF_{34} 2 7.7 88°.54 1°.5/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.15	+ 9 23.5	1.827	2.609	15.7	20.7
1 12	9 45.05	+ 9 36.5	1.762	2.632	12.2	20.6
1 22	9 37.61	+10 3.5	1.719	2.654	8.2	20.4
2 1	9 28.53	+10 41.4	1.702	2.676	3.9	20.1
2 11	9 18.85	+11 25.2	1.714	2.698	1.8	20.0
2 21	9 9.67	+12 9.4	1.755	2.720	5.7	20.4
3 2	9 2.01	+12 49.4	1.824	2.741	9.7	20.6
3 12	8 56.58	+13 21.6	1.917	2.761	13.1	20.9

18453 Nishiyamayukio 2 7.7 75°.62 2°.5/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.89	+20 1.4	1.650	2.458	16.0	18.4
1 12	9 48.14	+20 33.3	1.595	2.484	12.1	18.2
1 22	9 39.68	+21 10.7	1.564	2.510	7.8	18.0
2 1	9 29.36	+21 47.2	1.559	2.536	3.6	17.8
2 11	9 18.46	+22 16.2	1.582	2.561	3.4	17.9
2 21	9 8.31	+22 33.1	1.634	2.587	7.4	18.2
3 2	9 0.05	+22 36.3	1.712	2.611	11.3	18.4
3 12	8 54.43	+22 26.1	1.813	2.636	14.6	18.7

199846 2007 EY_{71} 2 7.7 276°.72 3°.3/ 5.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.25	+20 18.0	1.451	2.273	17.1	20.2
1 12	9 47.17	+21 0.1	1.363	2.259	13.2	19.9
1 22	9 39.77	+21 51.8	1.295	2.244	8.7	19.6
2 1	9 29.69	+22 45.5	1.252	2.230	4.3	19.3
2 11	9 18.20	+23 32.0	1.236	2.215	4.4	19.3
2 21	9 6.94	+24 3.6	1.247	2.200	9.1	19.5
3 2	8 57.55	+24 16.1	1.282	2.185	14.0	19.7
3 12	8 51.23	+24 9.1	1.338	2.170	18.3	20.0

18438 1994 JM_{6} 2 7.7 52°.59 3°.4/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.30	+21 50.2	1.865	2.680	14.2	18.8
1 12	9 43.97	+22 41.6	1.789	2.681	10.8	18.6
1 22	9 37.13	+23 38.6	1.736	2.683	7.1	18.4
2 1	9 28.43	+24 34.4	1.710	2.685	3.9	18.2
2 11	9 18.91	+25 21.8	1.713	2.687	4.3	18.2
2 21	9 9.74	+25 55.4	1.743	2.689	7.7	18.4
3 2	9 2.07	+26 12.3	1.800	2.690	11.4	18.6
3 12	8 56.72	+26 12.5	1.880	2.692	14.6	18.8

19805 2000 SR_{11} 2 7.7 68°.04 1°.1/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.63	+15 29.5	1.421	2.234	17.8	18.7
1 12	9 46.85	+16 0.7	1.364	2.255	13.6	18.5
1 22	9 39.08	+16 43.8	1.328	2.276	8.7	18.3
2 1	9 29.20	+17 32.4	1.317	2.296	3.5	18.0
2 11	9 18.57	+18 18.9	1.333	2.317	2.4	18.0
2 21	9 8.66	+18 56.6	1.377	2.338	7.4	18.4
3 2	9 0.76	+19 21.5	1.446	2.359	12.0	18.7
3 12	8 55.71	+19 32.2	1.537	2.380	15.8	19.0

426187 2012 JV_{41} 2 7.7 167°.62 4°.2/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.47	+26 20.1	2.385	3.189	11.8	22.0
1 12	9 44.39	+27 20.9	2.308	3.193	9.1	21.8
1 22	9 37.17	+28 22.9	2.257	3.196	6.3	21.7
2 1	9 28.40	+29 19.9	2.235	3.199	4.3	21.6
2 11	9 18.94	+30 5.7	2.242	3.201	4.9	21.6
2 21	9 9.77	+30 36.2	2.278	3.203	7.4	21.8
3 2	9 1.83	+30 49.7	2.342	3.204	10.2	21.9
3 12	8 55.85	+30 46.9	2.428	3.206	12.7	22.1

455112 2015 VU_{6} 2 7.7 168°.85 2°.9/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.88	+19 7.1	1.837	2.640	14.8	21.9
1 12	9 47.54	+20 15.3	1.759	2.645	11.3	21.6
1 22	9 39.50	+21 32.6	1.704	2.650	7.4	21.4
2 1	9 29.43	+22 51.5	1.677	2.654	3.6	21.2
2 11	9 18.42	+24 3.5	1.680	2.657	3.9	21.2
2 21	9 7.75	+25 1.6	1.712	2.658	7.7	21.4
3 2	8 58.64	+25 41.7	1.771	2.660	11.6	21.7
3 12	8 52.01	+26 3.2	1.854	2.660	15.0	21.9

336042 2007 VC_{321} 2 7.7 47°.37 4°.3/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 42.88	− 0 47.0	2.004	2.751	15.6	20.6
1 12	9 39.40	− 0 26.4	1.932	2.770	12.8	20.4
1 22	9 33.93	+ 0 15.5	1.881	2.789	9.5	20.2
2 1	9 27.06	+ 1 17.5	1.855	2.809	6.2	20.1
2 11	9 19.63	+ 2 35.0	1.857	2.829	4.3	20.0
2 21	9 12.54	+ 4 1.8	1.888	2.849	5.7	20.1
3 2	9 6.64	+ 5 30.7	1.947	2.870	8.8	20.3
3 12	9 2.58	+ 6 55.1	2.032	2.890	11.8	20.6

52280 1989 RB 2 7.7 152°.14 6°.1/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 58.27	+34 58.2	2.510	3.297	11.8	19.5
1 12	9 50.99	+35 51.0	2.444	3.308	9.5	19.4
1 22	9 41.35	+36 37.8	2.404	3.319	7.3	19.2
2 1	9 30.06	+37 11.6	2.392	3.329	6.2	19.2
2 11	9 18.17	+37 27.0	2.410	3.338	6.7	19.2
2 21	9 6.81	+37 21.7	2.457	3.347	8.6	19.4
3 2	8 57.01	+36 56.4	2.530	3.354	10.9	19.5
3 12	8 49.51	+36 14.2	2.627	3.361	13.0	19.7

425361 2010 BU_{78} 2 7.7 176°.46 1°.9/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.91	+ 8 40.9	2.739	3.498	11.6	21.2
1 12	9 42.75	+ 8 24.9	2.644	3.499	9.2	21.0
1 22	9 35.91	+ 8 17.6	2.573	3.500	6.3	20.9
2 1	9 27.85	+ 8 17.9	2.531	3.501	3.4	20.7
2 11	9 19.26	+ 8 24.1	2.520	3.501	2.0	20.6
2 21	9 10.86	+ 8 33.7	2.539	3.501	4.4	20.7
3 2	9 3.39	+ 8 44.3	2.589	3.501	7.4	20.9
3 12	8 57.42	+ 8 53.6	2.665	3.501	10.1	21.1

371235 2006 BS_{89} 2 7.7 39°.62 0°.9/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.34	+16 32.5	1.910	2.713	14.3	21.1
1 12	9 43.85	+16 50.0	1.830	2.715	11.0	20.9
1 22	9 36.98	+17 15.7	1.772	2.718	7.1	20.6
2 1	9 28.37	+17 45.2	1.741	2.720	2.9	20.4
2 11	9 19.01	+18 13.6	1.739	2.723	2.0	20.3
2 21	9 9.99	+18 36.2	1.766	2.726	6.2	20.6
3 2	9 2.38	+18 49.8	1.820	2.729	10.2	20.8
3 12	8 56.96	+18 53.1	1.897	2.732	13.6	21.1

7104 Manyousyu 2 7.7 1°.88 1°.9/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.70	+18 57.3	1.477	2.296	17.0	16.8
1 12	9 46.37	+19 10.2	1.401	2.296	13.1	16.5
1 22	9 38.98	+19 30.6	1.346	2.295	8.5	16.2
2 1	9 29.27	+19 53.0	1.316	2.295	3.6	15.9
2 11	9 18.56	+20 10.7	1.313	2.296	3.0	15.9
2 21	9 8.34	+20 18.6	1.337	2.297	7.8	16.2
3 2	9 0.01	+20 14.1	1.386	2.298	12.5	16.5
3 12	8 54.55	+19 56.8	1.457	2.300	16.5	16.7

240228 2002 TL_{82} 2 7.7 9°.74 8°.4/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.85	+36 19.1	1.686	2.502	15.3	19.4
1 12	9 48.70	+37 6.0	1.625	2.504	12.5	19.2
1 22	9 40.36	+37 44.1	1.585	2.508	9.9	19.0
2 1	9 29.76	+38 4.1	1.571	2.512	8.5	19.0
2 11	9 18.37	+37 58.6	1.582	2.516	9.1	19.0
2 21	9 7.76	+37 25.5	1.619	2.522	11.4	19.2
3 2	8 59.32	+36 26.9	1.679	2.528	14.3	19.3
3 12	8 53.89	+35 8.5	1.760	2.535	16.9	19.5

387301 2012 VW_{15} 2 7.7 178°.80 2°.7/10.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.05	+ 4 50.1	2.801	3.549	11.6	21.3
1 12	9 40.57	+ 4 43.4	2.705	3.550	9.3	21.1
1 22	9 34.50	+ 4 47.9	2.633	3.550	6.7	21.0
2 1	9 27.29	+ 5 3.0	2.589	3.551	4.0	20.8
2 11	9 19.55	+ 5 26.6	2.574	3.551	2.7	20.7
2 21	9 11.98	+ 5 55.9	2.590	3.551	4.4	20.8
3 2	9 5.25	+ 6 27.8	2.636	3.550	7.2	21.0
3 12	8 59.92	+ 6 58.9	2.708	3.549	9.8	21.2

54118 2000 HK_{21} 2 7.7 180°.61 1°.0/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.63	+ 9 48.0	2.241	3.016	13.4	19.9
1 12	9 42.98	+10 13.6	2.150	3.017	10.4	19.7
1 22	9 36.29	+10 51.7	2.082	3.018	7.0	19.5
2 1	9 28.08	+11 39.6	2.043	3.018	3.2	19.3
2 11	9 19.16	+12 32.7	2.033	3.018	1.4	19.1
2 21	9 10.45	+13 26.1	2.053	3.017	5.1	19.4
3 2	9 2.85	+14 15.1	2.102	3.015	8.8	19.6
3 12	8 57.09	+14 56.2	2.177	3.013	12.0	19.8

242768 2005 WY_{173} 2 7.7 75°.19 2°.7/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.30	+19 28.8	1.890	2.702	14.1	20.4
1 12	9 43.19	+20 23.4	1.812	2.703	10.8	20.2
1 22	9 36.64	+21 26.0	1.757	2.704	7.0	20.0
2 1	9 28.27	+22 30.2	1.728	2.705	3.4	19.8
2 11	9 19.07	+23 28.6	1.729	2.706	3.6	19.8
2 21	9 10.19	+24 15.2	1.758	2.708	7.3	20.0
3 2	9 2.71	+24 46.3	1.814	2.709	11.0	20.2
3 12	8 57.47	+25 1.0	1.892	2.710	14.3	20.5

281379 2008 OW_8 2 7.7 135°.24 2°.2/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.70	+ 6 19.8	1.757	2.530	16.6	21.6
1 12	9 45.74	+ 6 45.5	1.681	2.543	13.1	21.4
1 22	9 38.26	+ 7 29.9	1.626	2.556	9.0	21.2
2 1	9 28.92	+ 8 29.8	1.596	2.568	4.6	21.0
2 11	9 18.78	+ 9 39.6	1.596	2.579	2.4	20.8
2 21	9 9.02	+10 52.0	1.625	2.590	6.0	21.1
3 2	9 0.78	+12 0.3	1.682	2.600	10.3	21.4
3 12	8 54.89	+12 59.3	1.763	2.609	14.0	21.6

445990 2013 BY_{78} 2 7.7 77°.20 0°.9/ 7.2 18

1 2	9 51.70	+15 52.8	1.450	2.263	17.6	21.6
1 12	9 47.08	+16 10.9	1.380	2.270	13.5	21.4
1 22	9 39.39	+16 40.2	1.330	2.278	8.8	21.1
2 1	9 29.43	+17 15.3	1.305	2.285	3.5	20.8
2 11	9 18.53	+17 49.3	1.308	2.292	2.3	20.7
2 21	9 8.17	+18 16.1	1.338	2.300	7.5	21.1
3 2	8 59.74	+18 31.7	1.393	2.307	12.2	21.4
3 12	8 54.19	+18 34.7	1.470	2.314	16.3	21.6

331617 2002 AZ_{68} 2 7.7 121°.35 2°.4/ 9.6 18

1 2	9 45.87	+ 6 15.7	2.011	2.783	14.8	21.4
1 12	9 41.82	+ 6 30.1	1.925	2.787	11.7	21.2
1 22	9 35.62	+ 7 0.4	1.862	2.791	8.2	20.9
2 1	9 27.83	+ 7 44.7	1.825	2.795	4.4	20.7
2 11	9 19.31	+ 8 38.7	1.816	2.799	2.4	20.6
2 21	9 11.06	+ 9 37.2	1.837	2.802	5.4	20.8
3 2	9 4.00	+10 34.4	1.886	2.806	9.2	21.0
3 12	8 58.91	+11 25.7	1.959	2.809	12.6	21.3

290775 2005 VT_{11} 2 7.7 53°.87 5°.9/ 4.6 18

1 2	9 52.97	+24 17.2	1.170	2.008	19.3	20.0
1 12	9 48.62	+25 31.3	1.125	2.029	14.8	19.8
1 22	9 40.58	+26 49.6	1.100	2.049	10.0	19.6
2 1	9 29.91	+27 59.7	1.099	2.070	6.3	19.5
2 11	9 18.37	+28 50.2	1.123	2.092	7.0	19.6
2 21	9 7.84	+29 14.6	1.172	2.114	11.0	19.9
3 2	8 59.88	+29 12.2	1.243	2.136	15.2	20.2
3 12	8 55.42	+28 46.9	1.334	2.158	18.8	20.5

179699 2002 RC_{28} 2 7.7 43°.13 3°.3/ 9.9 18

1 2	9 47.33	+ 4 48.6	1.291	2.088	20.2	19.3
1 12	9 43.61	+ 5 3.6	1.243	2.117	16.0	19.1
1 22	9 36.99	+ 5 42.6	1.213	2.147	11.1	18.9
2 1	9 28.38	+ 6 42.3	1.207	2.177	6.0	18.7
2 11	9 19.12	+ 7 55.0	1.227	2.209	3.4	18.6
2 21	9 10.61	+ 9 11.8	1.272	2.240	6.9	18.9
3 2	9 4.07	+10 23.9	1.343	2.272	11.4	19.2
3 12	9 0.28	+11 25.0	1.437	2.304	15.3	19.5

292596 2006 TN_{105} 2 7.7 167°.87 2°.1/ 5.5 18

1 2	9 46.03	+21 24.1	2.910	3.706	10.1	21.4
1 12	9 41.34	+22 3.3	2.827	3.709	7.7	21.3
1 22	9 35.01	+22 45.6	2.769	3.712	5.0	21.1
2 1	9 27.51	+23 27.2	2.740	3.715	2.6	20.9
2 11	9 19.51	+24 3.9	2.742	3.717	2.7	20.9
2 21	9 11.71	+24 32.5	2.775	3.719	5.3	21.1
3 2	9 4.82	+24 50.9	2.837	3.720	7.9	21.3
3 12	8 59.41	+24 58.5	2.923	3.722	10.3	21.4

20481 Sharples 2 7.7 172°.70 1°.5/ 6.7 18

1 2	9 50.47	+16 36.0	1.880	2.680	14.6	19.0
1 12	9 45.59	+17 16.7	1.798	2.682	11.2	18.8
1 22	9 38.20	+18 7.2	1.739	2.684	7.2	18.6
2 1	9 28.93	+19 2.0	1.707	2.686	3.0	18.3
2 11	9 18.80	+19 54.4	1.705	2.687	2.5	18.3
2 21	9 8.98	+20 38.6	1.731	2.688	6.7	18.5
3 2	9 0.62	+21 10.5	1.785	2.688	10.7	18.8
3 12	8 54.56	+21 28.4	1.863	2.687	14.2	19.0

343060 2009 CJ_{23} 2 7.7 341°.57 1°.3/ 8.8 17

1 2	9 43.36	+ 9 1.0	2.125	2.910	13.7	21.1
1 12	9 39.86	+ 9 24.0	2.035	2.907	10.7	20.9
1 22	9 34.34	+10 0.7	1.967	2.904	7.3	20.7
2 1	9 27.32	+10 48.7	1.926	2.901	3.5	20.5
2 11	9 19.60	+11 43.4	1.914	2.898	1.6	20.3
2 21	9 12.07	+12 39.6	1.930	2.896	5.2	20.6
3 2	9 5.62	+13 32.2	1.975	2.894	8.9	20.8
3 12	9 0.99	+14 17.4	2.045	2.892	12.2	21.0

207564 2006 PZ 2 7.7 181°.71 2°.9/10.2 18

1 2	9 47.54	+ 3 32.9	2.143	2.897	14.6	20.9
1 12	9 43.01	+ 3 55.4	2.050	2.898	11.7	20.7
1 22	9 36.38	+ 4 35.8	1.978	2.898	8.4	20.5
2 1	9 28.16	+ 5 32.3	1.934	2.898	4.8	20.3
2 11	9 19.18	+ 6 40.9	1.918	2.898	2.9	20.1
2 21	9 10.39	+ 7 55.8	1.933	2.896	5.4	20.3
3 2	9 2.71	+ 9 10.9	1.977	2.894	9.0	20.5
3 12	8 56.92	+10 20.5	2.046	2.892	12.3	20.7

38175 1999 JQ_{118} 2 7.7 219°.77 0°.2/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.88	+13 12.1	1.990	2.779	14.3	20.7
1 12	9 45.12	+13 46.2	1.893	2.770	11.1	20.5
1 22	9 37.93	+14 32.8	1.819	2.761	7.3	20.2
2 1	9 28.86	+15 27.6	1.772	2.751	3.0	19.9
2 11	9 18.83	+16 24.9	1.755	2.740	1.6	19.8
2 21	9 8.94	+17 18.6	1.767	2.728	6.1	20.1
3 2	9 0.31	+18 3.8	1.808	2.716	10.3	20.3
3 12	8 53.84	+18 37.3	1.873	2.703	13.9	20.5

261133 2005 TB_{47} 2 7.7 99°.08 0°.4/ 7.3 18

1 2	9 48.37	+13 24.5	1.993	2.786	14.2	21.4
1 12	9 43.66	+14 8.8	1.925	2.804	10.9	21.2
1 22	9 36.75	+15 4.2	1.879	2.823	7.0	21.0
2 1	9 28.27	+16 6.0	1.862	2.841	2.8	20.8
2 11	9 19.18	+17 7.9	1.874	2.858	1.6	20.8
2 21	9 10.49	+18 4.2	1.915	2.875	5.8	21.1
3 2	9 3.16	+18 50.5	1.985	2.892	9.5	21.3
3 12	8 57.89	+19 24.5	2.079	2.909	12.8	21.6

237286 2008 XB_{21} 2 7.7 158°.58 2°.7/ 5.2 18

1 2	9 45.67	+20 33.2	2.359	3.163	11.9	20.4
1 12	9 41.50	+21 35.4	2.277	3.165	9.0	20.2
1 22	9 35.34	+22 43.5	2.221	3.167	5.9	20.0
2 1	9 27.73	+23 51.9	2.194	3.169	3.1	19.8
2 11	9 19.44	+24 54.4	2.197	3.170	3.5	19.8
2 21	9 11.38	+25 46.1	2.229	3.172	6.4	20.0
3 2	9 4.41	+26 23.7	2.289	3.173	9.5	20.2
3 12	8 59.23	+26 46.2	2.373	3.174	12.3	20.4

193888 2001 QL_{206} 2 7.7 132°.53 0°.2/ 7.9 18

1 2	9 51.02	+11 33.1	1.697	2.489	16.3	21.5
1 12	9 46.13	+12 9.7	1.623	2.501	12.6	21.3
1 22	9 38.59	+13 1.2	1.570	2.512	8.3	21.1
2 1	9 29.10	+14 2.8	1.545	2.523	3.4	20.8
2 11	9 18.78	+15 7.7	1.547	2.533	1.6	20.7
2 21	9 8.87	+16 8.7	1.579	2.542	6.4	21.0
3 2	9 0.57	+17 0.2	1.638	2.551	10.8	21.3
3 12	8 54.73	+17 38.8	1.721	2.559	14.6	21.5

52723 1998 GP_2 2 7.7 191°.02 7°.1/31.7 18

1 2	9 51.32	+38 15.0	2.576	3.371	11.3	18.0
1 12	9 45.94	+39 22.6	2.508	3.371	9.3	17.9
1 22	9 38.26	+40 23.4	2.465	3.370	7.7	17.7
2 1	9 28.92	+41 10.5	2.449	3.369	7.1	17.7
2 11	9 18.87	+41 38.1	2.461	3.368	7.8	17.7
2 21	9 9.20	+41 43.5	2.500	3.366	9.4	17.8
3 2	9 0.89	+41 26.9	2.564	3.365	11.4	18.0
3 12	8 54.72	+40 51.0	2.649	3.363	13.3	18.1

2539 Ningxia 2 7.7 68°.99 2°.6/ 9.3 18

1 2	9 50.08	+ 6 56.7	1.330	2.127	19.7	17.6
1 12	9 45.84	+ 7 8.6	1.270	2.147	15.5	17.4
1 22	9 38.57	+ 7 42.2	1.230	2.166	10.6	17.2
2 1	9 29.10	+ 8 34.1	1.213	2.186	5.4	17.0
2 11	9 18.80	+ 9 37.3	1.222	2.205	2.8	16.8
2 21	9 9.16	+10 43.5	1.258	2.225	7.0	17.2
3 2	9 1.49	+11 44.8	1.319	2.245	11.8	17.5
3 12	8 56.71	+12 35.4	1.402	2.264	16.0	17.8

400792 2010 FS_6 2 7.7 280°.95 2°.8/ 9.4 18

1 2	9 47.01	+ 6 18.7	1.501	2.292	18.1	21.4
1 12	9 43.73	+ 6 29.1	1.401	2.274	14.6	21.1
1 22	9 37.50	+ 7 1.2	1.322	2.256	10.3	20.8
2 1	9 28.84	+ 7 53.9	1.266	2.238	5.5	20.5
2 11	9 18.83	+ 9 2.2	1.237	2.220	3.0	20.3
2 21	9 8.83	+10 18.4	1.234	2.201	7.1	20.5
3 2	9 0.33	+11 33.8	1.257	2.183	12.3	20.7
3 12	8 54.51	+12 40.7	1.302	2.165	16.9	20.9

58147 1986 WK 2 7.7 86°.14 3°.1/ 5.3 18

1 2	9 53.30	+22 41.3	2.166	2.964	13.0	19.1
1 12	9 47.12	+23 31.1	2.116	2.999	9.9	19.0
1 22	9 38.80	+24 23.1	2.091	3.033	6.4	18.8
2 1	9 29.05	+25 11.1	2.094	3.067	3.6	18.7
2 11	9 18.87	+25 49.6	2.128	3.100	3.8	18.8
2 21	9 9.28	+26 14.8	2.191	3.132	6.7	19.0
3 2	9 1.20	+26 25.5	2.283	3.163	9.7	19.2
3 12	8 55.25	+26 22.3	2.399	3.194	12.4	19.5

394 Arduina 2 7.7 145°.41 2°.4/ 5.5 18 A

1 2	9 49.10	+21 2.1	2.489	3.285	11.6	14.9
1 12	9 43.91	+21 50.3	2.413	3.296	8.8	14.8
1 22	9 36.79	+22 42.7	2.362	3.306	5.7	14.6
2 1	9 28.28	+23 34.1	2.341	3.315	2.9	14.4
2 11	9 19.20	+24 19.5	2.350	3.324	3.1	14.4
2 21	9 10.41	+24 54.6	2.389	3.333	6.0	14.6
3 2	9 2.76	+25 17.4	2.457	3.341	9.0	14.8
3 12	8 56.89	+25 27.1	2.550	3.348	11.6	15.0

406050 2006 UN_{16} 2 7.7 73°.48 7°.6/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.28	+31 32.9	1.658	2.478	15.4	20.9
1 12	9 48.16	+33 3.6	1.611	2.497	12.2	20.8
1 22	9 39.99	+34 30.3	1.587	2.517	9.2	20.6
2 1	9 29.66	+35 42.3	1.588	2.537	7.6	20.6
2 11	9 18.56	+36 30.6	1.617	2.557	8.5	20.7
2 21	9 8.19	+36 51.0	1.671	2.576	11.0	20.9
3 2	8 59.87	+36 44.1	1.750	2.596	13.9	21.1
3 12	8 54.46	+36 14.0	1.848	2.615	16.5	21.3

402614 2006 SB_{280} 2 7.7 58°.40 0°.1/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.20	+11 55.8	1.491	2.296	17.5	21.1
1 12	9 44.79	+12 44.2	1.439	2.325	13.4	20.9
1 22	9 37.67	+13 48.1	1.409	2.354	8.6	20.7
2 1	9 28.67	+15 1.0	1.405	2.384	3.5	20.5
2 11	9 19.05	+16 14.4	1.428	2.413	1.8	20.4
2 21	9 10.10	+17 20.7	1.479	2.442	6.7	20.8
3 2	9 2.99	+18 14.0	1.556	2.472	11.1	21.1
3 12	8 58.46	+18 51.9	1.656	2.501	14.8	21.4

241058 2006 SU_{125} 2 7.7 165°.05 1°.0/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.70	+ 8 57.5	2.745	3.514	11.3	21.1
1 12	9 39.63	+ 9 29.2	2.654	3.517	8.8	20.9
1 22	9 33.96	+10 12.0	2.587	3.520	5.9	20.8
2 1	9 27.13	+11 3.3	2.548	3.522	2.8	20.6
2 11	9 19.78	+11 59.5	2.540	3.525	1.2	20.4
2 21	9 12.59	+12 56.2	2.563	3.527	4.2	20.7
3 2	9 6.25	+13 49.7	2.615	3.528	7.3	20.9
3 12	9 1.32	+14 36.7	2.694	3.530	10.0	21.0

236732 2007 HK_{51} 2 7.7 185°.08 1°.9/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.27	+ 7 32.1	1.956	2.726	15.2	22.0
1 12	9 45.34	+ 7 51.1	1.865	2.727	12.0	21.8
1 22	9 38.02	+ 8 26.0	1.796	2.727	8.3	21.5
2 1	9 28.90	+ 9 14.4	1.753	2.726	4.2	21.3
2 11	9 18.91	+10 11.6	1.740	2.724	2.1	21.1
2 21	9 9.14	+11 11.6	1.757	2.721	5.7	21.4
3 2	9 0.66	+12 8.8	1.802	2.718	9.8	21.6
3 12	8 54.33	+12 58.4	1.872	2.714	13.5	21.8

371250 2006 BJ_{165} 2 7.7 59°.44 0°.7/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.59	+12 16.0	1.812	2.607	15.3	21.2
1 12	9 44.02	+12 21.3	1.742	2.621	11.8	21.0
1 22	9 37.08	+12 38.0	1.695	2.636	7.8	20.8
2 1	9 28.45	+13 2.9	1.674	2.651	3.4	20.6
2 11	9 19.18	+13 31.4	1.681	2.666	1.5	20.5
2 21	9 10.36	+13 58.9	1.716	2.681	5.8	20.8
3 2	9 3.02	+14 21.4	1.779	2.696	9.8	21.0
3 12	8 57.91	+14 36.5	1.866	2.712	13.3	21.3

460899 2014 WW_{181} 2 7.7 77°.05 3°.3/ 5.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.18	+21 0.4	1.719	2.535	15.1	21.2
1 12	9 44.86	+21 54.9	1.647	2.540	11.5	21.0
1 22	9 37.85	+22 56.3	1.597	2.545	7.6	20.8
2 1	9 28.84	+23 57.2	1.574	2.550	4.0	20.6
2 11	9 18.97	+24 49.7	1.579	2.555	4.3	20.6
2 21	9 9.51	+25 27.7	1.612	2.559	8.0	20.8
3 2	9 1.68	+25 48.0	1.671	2.564	11.9	21.1
3 12	8 56.35	+25 50.7	1.751	2.569	15.3	21.3

134477 1998 VF_{49} 2 7.7 70°.41 4°.5/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.93	+23 28.4	1.606	2.421	16.0	20.1
1 12	9 48.33	+24 38.6	1.562	2.454	12.2	19.9
1 22	9 39.91	+25 51.5	1.542	2.486	8.1	19.8
2 1	9 29.58	+26 58.2	1.547	2.518	4.8	19.7
2 11	9 18.67	+27 50.2	1.581	2.550	5.4	19.8
2 21	9 8.58	+28 22.4	1.643	2.581	8.7	20.0
3 2	9 0.48	+28 33.7	1.730	2.612	12.2	20.3
3 12	8 55.12	+28 26.3	1.840	2.643	15.2	20.6

365344 2009 SM_{255} 2 7.7 196°.07 1°.3/ 9.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.46	+ 4 42.1	2.396	3.147	13.3	21.1
1 12	9 42.84	+ 6 0.1	2.293	3.144	10.5	20.9
1 22	9 36.26	+ 7 37.5	2.214	3.141	7.2	20.6
2 1	9 28.16	+ 9 30.5	2.165	3.137	3.5	20.4
2 11	9 19.29	+11 32.8	2.148	3.133	1.5	20.2
2 21	9 10.49	+13 36.4	2.165	3.128	4.9	20.5
3 2	9 2.64	+15 33.7	2.212	3.122	8.6	20.7
3 12	8 56.49	+17 18.8	2.288	3.115	11.8	20.9

160189 2001 XS_{194} 2 7.7 5°.69 2°.0/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.98	+10 2.1	1.321	2.132	19.1	19.6
1 12	9 44.54	+ 9 54.9	1.245	2.131	15.0	19.4
1 22	9 37.97	+10 5.1	1.190	2.132	10.2	19.1
2 1	9 28.98	+10 30.3	1.157	2.133	4.9	18.8
2 11	9 18.89	+11 5.2	1.150	2.134	2.4	18.6
2 21	9 9.22	+11 43.1	1.168	2.136	7.3	18.9
3 2	9 1.44	+12 17.8	1.211	2.139	12.4	19.2
3 12	8 56.61	+12 44.3	1.276	2.142	16.9	19.5

183604 2003 UK_{93} 2 7.7 336°.66 4°.3/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.95	+ 4 19.8	1.530	2.312	18.2	20.0
1 12	9 43.39	+ 4 2.7	1.445	2.309	14.8	19.7
1 22	9 37.06	+ 4 5.7	1.380	2.306	10.7	19.5
2 1	9 28.59	+ 4 28.8	1.338	2.303	6.5	19.2
2 11	9 19.08	+ 5 8.8	1.323	2.301	4.3	19.1
2 21	9 9.83	+ 5 59.9	1.334	2.298	7.1	19.3
3 2	9 2.14	+ 6 55.1	1.370	2.297	11.4	19.5
3 12	8 57.00	+ 7 47.4	1.430	2.295	15.5	19.7

432091 2008 YV_{155} 2 7.7 54°.94 0°.6/ 7.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.11	+13 25.9	2.150	2.947	13.2	21.4
1 12	9 40.39	+14 16.1	2.071	2.954	10.1	21.2
1 22	9 34.67	+15 17.7	2.016	2.961	6.5	21.0
2 1	9 27.48	+16 26.1	1.989	2.968	2.6	20.7
2 11	9 19.65	+17 35.2	1.991	2.975	1.6	20.7
2 21	9 12.08	+18 39.4	2.022	2.982	5.5	20.9
3 2	9 5.65	+19 33.9	2.082	2.990	9.1	21.2
3 12	9 1.05	+20 15.9	2.166	2.997	12.3	21.4

499037 2009 DV_{55} 2 7.7 353°.95 0°.2/ 7.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.86	+13 18.6	2.126	2.923	13.3	21.2
1 12	9 40.27	+13 50.4	2.039	2.921	10.2	21.0
1 22	9 34.64	+14 33.0	1.976	2.920	6.7	20.8
2 1	9 27.49	+15 22.8	1.940	2.919	2.7	20.6
2 11	9 19.65	+16 14.8	1.933	2.918	1.4	20.4
2 21	9 12.03	+17 3.6	1.955	2.918	5.4	20.7
3 2	9 5.54	+17 45.0	2.005	2.917	9.2	20.9
3 12	9 0.89	+18 16.1	2.079	2.917	12.4	21.2

10724 Carolraymond 2 7.7 45°.15 3°.7/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.68	+ 6 47.9	1.389	2.183	19.2	17.4
1 12	9 45.58	+ 6 22.8	1.318	2.191	15.3	17.1
1 22	9 38.49	+ 6 16.3	1.266	2.199	10.8	16.9
2 1	9 29.15	+ 6 27.6	1.238	2.207	6.1	16.7
2 11	9 18.85	+ 6 53.1	1.235	2.216	3.8	16.5
2 21	9 9.05	+ 7 27.3	1.259	2.225	7.2	16.8
3 2	9 1.10	+ 8 3.7	1.308	2.234	11.8	17.0
3 12	8 55.97	+ 8 36.6	1.379	2.244	16.0	17.3

329023 2011 AX_{13} 2 7.7 179°.73 3°.3/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.67	+21 6.6	2.086	2.894	13.1	20.5
1 12	9 43.35	+22 20.9	2.006	2.895	10.0	20.3
1 22	9 36.74	+23 42.1	1.950	2.896	6.6	20.1
2 1	9 28.38	+25 3.3	1.922	2.896	3.7	19.9
2 11	9 19.22	+26 16.9	1.924	2.896	4.2	19.9
2 21	9 10.29	+27 16.6	1.956	2.895	7.4	20.1
3 2	9 2.63	+27 58.8	2.014	2.895	10.8	20.3
3 12	8 57.05	+28 22.7	2.095	2.894	13.8	20.5

209483 2004 HT_{37} 2 7.7 150°.95 4°.3/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 42.53	− 2 53.0	2.533	3.253	13.4	20.2
1 12	9 38.89	− 2 30.8	2.437	3.255	11.1	20.0
1 22	9 33.57	− 1 49.5	2.362	3.256	8.5	19.8
2 1	9 27.02	− 0 49.6	2.314	3.258	5.9	19.7
2 11	9 19.90	+ 0 25.9	2.294	3.259	4.3	19.6
2 21	9 12.93	+ 1 52.3	2.305	3.260	5.3	19.6
3 2	9 6.83	+ 3 23.6	2.344	3.262	7.8	19.8
3 12	9 2.23	+ 4 53.7	2.411	3.263	10.5	19.9

15872 1996 RJ_4 2 7.7 263°.48 0°.1/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.97	+12 35.8	1.917	2.712	14.6	18.5
1 12	9 42.96	+13 2.8	1.823	2.703	11.3	18.3
1 22	9 36.57	+13 42.5	1.752	2.694	7.5	18.0
2 1	9 28.36	+14 31.2	1.707	2.685	3.1	17.7
2 11	9 19.23	+15 23.6	1.691	2.676	1.5	17.6
2 21	9 10.28	+16 13.6	1.704	2.667	6.0	17.9
3 2	9 2.59	+16 56.3	1.744	2.658	10.2	18.1
3 12	8 57.04	+17 28.4	1.808	2.649	13.9	18.3

329606 2003 FH_{131} 2 7.7 306°.14 1°.6/ 8.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.43	+10 1.4	1.738	2.533	15.9	20.9
1 12	9 42.80	+10 4.3	1.643	2.520	12.5	20.6
1 22	9 36.60	+10 21.7	1.568	2.507	8.5	20.4
2 1	9 28.41	+10 51.4	1.520	2.495	4.1	20.1
2 11	9 19.20	+11 29.1	1.498	2.483	1.9	19.9
2 21	9 10.15	+12 9.3	1.505	2.471	6.2	20.1
3 2	9 2.45	+12 46.8	1.538	2.459	10.7	20.4
3 12	8 57.06	+13 17.2	1.594	2.448	14.7	20.6

245075 2004 HB_{12} 2 7.7 246°.82 6°.6/14.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 43.08	− 8 55.0	2.686	3.363	13.6	21.1
1 12	9 39.30	− 9 19.2	2.581	3.355	11.8	20.9
1 22	9 33.85	− 9 24.9	2.496	3.347	9.8	20.7
2 1	9 27.16	− 9 10.2	2.435	3.339	7.9	20.6
2 11	9 19.85	− 8 35.6	2.401	3.331	6.7	20.5
2 21	9 12.62	− 7 43.4	2.395	3.322	7.0	20.5
3 2	9 6.20	− 6 37.9	2.417	3.314	8.6	20.6
3 12	9 1.21	− 5 24.8	2.464	3.305	10.7	20.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
171969 2001 TH_{109}			2 7.7 187°.72		4°.5/11.7 18	
	h m	° ′			°	m
1 2	9 44.67	− 0 27.0	2.551	3.280	13.1	20.2
1 12	9 40.51	− 0 44.6	2.455	3.280	10.9	20.0
1 22	9 34.62	− 0 47.1	2.382	3.279	8.3	19.8
2 1	9 27.46	− 0 34.2	2.334	3.279	5.8	19.7
2 11	9 19.72	− 0 7.4	2.315	3.278	4.5	19.6
2 21	9 12.13	+ 0 30.4	2.325	3.277	5.5	19.7
3 2	9 5.44	+ 1 15.1	2.363	3.276	8.0	19.8
3 12	9 0.26	+ 2 2.3	2.428	3.275	10.6	20.0
449532 2014 HW_{40}			2 7.7 130°.91		3°.9/ 5.1 18	
1 2	9 53.08	+21 26.7	1.656	2.469	15.8	21.6
1 12	9 47.94	+22 36.8	1.590	2.480	12.0	21.4
1 22	9 39.90	+23 54.0	1.546	2.492	7.9	21.2
2 1	9 29.72	+25 9.5	1.529	2.503	4.4	21.0
2 11	9 18.64	+26 14.0	1.541	2.513	4.9	21.1
2 21	9 8.07	+27 0.7	1.580	2.523	8.6	21.3
3 2	8 59.30	+27 26.8	1.646	2.532	12.5	21.5
3 12	8 53.26	+27 32.7	1.733	2.540	15.9	21.8
266257 2006 YA_{19}			2 7.7 21°.60		4°.9/ 9.7 18	
1 2	9 51.56	+ 7 47.4	1.319	2.117	19.8	19.4
1 12	9 47.06	+ 6 30.0	1.253	2.127	15.9	19.2
1 22	9 39.44	+ 5 27.1	1.207	2.138	11.4	19.0
2 1	9 29.54	+ 4 40.6	1.184	2.150	6.9	18.7
2 11	9 18.74	+ 4 10.3	1.187	2.164	5.0	18.7
2 21	9 8.59	+ 3 53.9	1.216	2.178	7.9	18.9
3 2	9 0.46	+ 3 47.6	1.269	2.194	12.2	19.2
3 12	8 55.29	+ 3 46.3	1.344	2.210	16.2	19.4
472501 2015 CR_{23}			2 7.7 100°.84		1°.3/ 6.7 17	
1 2	9 47.77	+18 9.8	2.275	3.073	12.5	21.1
1 12	9 43.08	+18 30.2	2.193	3.077	9.5	20.9
1 22	9 36.36	+18 56.4	2.135	3.080	6.1	20.7
2 1	9 28.19	+19 24.3	2.105	3.084	2.6	20.4
2 11	9 19.39	+19 49.5	2.105	3.087	2.1	20.4
2 21	9 10.89	+20 8.4	2.135	3.091	5.6	20.6
3 2	9 3.57	+20 18.5	2.192	3.094	9.0	20.9
3 12	8 58.12	+20 18.8	2.274	3.098	12.0	21.1
34273 Franklynwang			2 7.7 158°.92		1°.7/ 6.5 18	
1 2	9 49.02	+17 54.3	2.067	2.867	13.5	19.6
1 12	9 44.28	+18 30.7	1.985	2.870	10.3	19.4
1 22	9 37.27	+19 14.5	1.928	2.873	6.6	19.2
2 1	9 28.60	+20 0.8	1.898	2.876	2.9	19.0
2 11	9 19.19	+20 43.8	1.897	2.879	2.5	19.0
2 21	9 10.08	+21 18.6	1.926	2.881	6.3	19.2
3 2	9 2.28	+21 42.0	1.983	2.883	10.0	19.4
3 12	8 56.56	+21 52.8	2.063	2.885	13.2	19.6
281064 2006 KE_{73}			2 7.7 276°.13		0°.8/ 8.4 17	
1 2	9 44.48	+ 9 51.5	2.187	2.970	13.4	21.1
1 12	9 40.80	+10 24.3	2.084	2.956	10.5	20.9
1 22	9 35.07	+11 11.1	2.004	2.942	7.0	20.7
2 1	9 27.73	+12 9.0	1.951	2.927	3.2	20.4
2 11	9 19.58	+13 13.2	1.928	2.913	1.3	20.2
2 21	9 11.51	+14 18.0	1.934	2.898	5.3	20.5
3 2	9 4.45	+15 18.2	1.968	2.883	9.2	20.7
3 12	8 59.20	+16 9.4	2.028	2.869	12.6	20.9
139424 2001 OU_{33}			2 7.7 45°.47		4°.4/ 5.1 18	
1 2	9 50.26	+23 6.0	1.451	2.279	16.8	19.1
1 12	9 45.98	+24 0.6	1.396	2.295	12.8	18.9
1 22	9 38.67	+24 59.6	1.363	2.311	8.5	18.7
2 1	9 29.20	+25 54.2	1.355	2.328	4.9	18.5
2 11	9 18.94	+26 35.8	1.373	2.346	5.4	18.6
2 21	9 9.39	+26 58.7	1.418	2.364	9.1	18.8
3 2	9 1.86	+27 1.2	1.488	2.382	13.0	19.1
3 12	8 57.20	+26 45.1	1.578	2.401	16.5	19.4
272978 2006 DC_{21}			2 7.7 207°.99		0°.3/ 7.9 18	
1 2	9 48.34	+13 26.3	2.062	2.853	13.8	20.9
1 12	9 43.74	+13 34.3	1.974	2.852	10.7	20.7
1 22	9 36.92	+13 51.8	1.909	2.851	7.1	20.5
2 1	9 28.46	+14 15.8	1.872	2.850	3.0	20.2
2 11	9 19.25	+14 42.2	1.863	2.848	1.3	20.1
2 21	9 10.31	+15 6.8	1.884	2.847	5.5	20.4
3 2	9 2.62	+15 26.3	1.933	2.846	9.4	20.6
3 12	8 56.95	+15 38.1	2.006	2.845	12.8	20.8
371646 2007 BS_{54}			2 7.7 120°.62		4°.0/ 4.3 18	
1 2	9 47.53	+21 24.2	1.875	2.690	14.1	20.8
1 12	9 43.50	+22 54.0	1.801	2.694	10.7	20.6
1 22	9 36.96	+24 31.6	1.752	2.698	7.1	20.4
2 1	9 28.53	+26 8.6	1.730	2.702	4.2	20.2
2 11	9 19.21	+27 36.0	1.738	2.706	5.0	20.3
2 21	9 10.19	+28 46.2	1.773	2.710	8.3	20.5
3 2	9 2.59	+29 35.3	1.836	2.714	11.8	20.7
3 12	8 57.30	+30 2.8	1.920	2.717	14.9	20.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
135331 2001 SK_{346}			2 7.7 345°.40		2°.0/ 8.9 18	
	h m	° ′			°	m
1 2	9 48.61	+10 36.5	2.023	2.805	14.4	19.3
1 12	9 43.96	+10 8.2	1.932	2.801	11.3	19.1
1 22	9 37.08	+ 9 49.3	1.863	2.798	7.8	18.8
2 1	9 28.53	+ 9 38.9	1.822	2.795	3.9	18.6
2 11	9 19.22	+ 9 34.8	1.809	2.792	2.2	18.5
2 21	9 10.17	+ 9 34.3	1.825	2.789	5.5	18.7
3 2	9 2.38	+ 9 34.8	1.869	2.787	9.4	18.9
3 12	8 56.63	+ 9 33.6	1.937	2.785	12.8	19.1
361728 2007 WT_{50}			2 7.7 177°.89		2°.5/ 5.9 18	
1 2	9 49.82	+18 33.4	1.803	2.611	14.8	20.9
1 12	9 45.29	+19 28.1	1.723	2.612	11.4	20.7
1 22	9 38.15	+20 32.1	1.666	2.613	7.4	20.4
2 1	9 29.02	+21 38.8	1.636	2.613	3.4	20.2
2 11	9 18.98	+22 40.4	1.634	2.613	3.4	20.2
2 21	9 9.25	+23 30.2	1.662	2.613	7.4	20.4
3 2	9 1.02	+24 4.2	1.716	2.612	11.4	20.7
3 12	8 55.20	+24 21.3	1.792	2.612	14.9	20.9
209643 2005 BZ_{26}			2 7.7 64°.12		0°.6/ 8.1 18	
1 2	9 50.11	+11 57.9	1.444	2.250	18.0	20.8
1 12	9 45.77	+12 13.1	1.379	2.264	13.9	20.6
1 22	9 38.52	+12 43.4	1.335	2.279	9.2	20.3
2 1	9 29.15	+13 24.5	1.315	2.293	3.9	20.1
2 11	9 18.95	+14 9.7	1.323	2.308	1.7	19.9
2 21	9 9.33	+14 52.3	1.357	2.323	6.9	20.3
3 2	9 1.58	+15 26.9	1.418	2.338	11.6	20.6
3 12	8 56.57	+15 50.3	1.500	2.353	15.6	20.9
138465 2000 JV_{42}			2 7.7 298°.59		5°.2/11.2 18	
1 2	9 45.53	+ 1 2.7	1.733	2.495	17.2	20.3
1 12	9 42.10	+ 0 43.7	1.637	2.484	14.2	20.1
1 22	9 36.16	+ 0 45.3	1.560	2.473	10.7	19.8
2 1	9 28.26	+ 1 8.5	1.507	2.462	7.2	19.6
2 11	9 19.33	+ 1 51.3	1.480	2.451	5.2	19.4
2 21	9 10.52	+ 2 49.0	1.480	2.441	7.1	19.5
3 2	9 3.01	+ 3 54.7	1.507	2.430	10.8	19.7
3 12	8 57.74	+ 5 0.9	1.557	2.420	14.6	19.9
34873 2001 UF_{6}			2 7.7 162°.98		0°.9/ 7.1 18	
1 2	9 52.38	+17 29.4	2.289	3.076	12.8	18.4
1 12	9 46.55	+17 39.6	2.204	3.081	9.8	18.2
1 22	9 38.60	+17 55.2	2.144	3.086	6.3	18.0
2 1	9 29.12	+18 12.7	2.112	3.090	2.6	17.8
2 11	9 18.98	+18 28.0	2.110	3.094	1.8	17.7
2 21	9 9.18	+18 37.8	2.140	3.097	5.5	18.0
3 2	9 0.64	+18 40.0	2.198	3.100	9.0	18.2
3 12	8 54.07	+18 33.9	2.281	3.102	12.1	18.4
160975 2002 CO_{38}			2 7.7 187°.29		1°.0/ 7.1 18	
1 2	9 52.80	+16 31.1	1.903	2.698	14.7	20.2
1 12	9 47.40	+16 50.8	1.816	2.697	11.3	19.9
1 22	9 39.43	+17 18.9	1.753	2.697	7.4	19.7
2 1	9 29.53	+17 50.8	1.717	2.695	3.0	19.4
2 11	9 18.76	+18 21.2	1.710	2.694	2.1	19.4
2 21	9 8.30	+18 45.2	1.733	2.691	6.4	19.6
3 2	8 59.32	+18 59.6	1.783	2.688	10.6	19.9
3 12	8 52.68	+19 3.0	1.857	2.685	14.1	20.1
79513 1998 KM_{19}			2 7.7 207°.75		3°.3/10.0 18	
1 2	9 50.81	+ 4 19.4	1.904	2.662	16.0	20.5
1 12	9 45.93	+ 4 25.5	1.805	2.656	12.9	20.3
1 22	9 38.55	+ 4 49.8	1.728	2.649	9.2	20.0
2 1	9 29.23	+ 5 31.5	1.676	2.641	5.4	19.8
2 11	9 18.90	+ 6 26.7	1.653	2.632	3.3	19.6
2 21	9 8.70	+ 7 29.9	1.660	2.623	6.2	19.8
3 2	8 59.77	+ 8 34.6	1.694	2.612	10.2	20.0
3 12	8 53.05	+ 9 34.9	1.754	2.601	14.0	20.2
622 Esther			2 7.7 69°.38		0°.4/ 8.0 18	R
1 2	9 49.79	+ 9 45.0	1.462	2.262	18.1	13.8
1 12	9 45.36	+10 41.4	1.408	2.290	13.9	13.6
1 22	9 38.14	+11 56.5	1.375	2.318	9.1	13.4
2 1	9 28.97	+13 23.6	1.367	2.345	3.8	13.2
2 11	9 19.10	+14 53.7	1.387	2.373	1.6	13.1
2 21	9 9.89	+16 17.5	1.435	2.400	6.7	13.5
3 2	9 2.52	+17 28.0	1.510	2.427	11.3	13.8
3 12	8 57.81	+18 21.7	1.607	2.453	15.1	14.1
275307 2010 RR_{166}			2 7.7 115°.29		0°.6/ 8.3 18	
1 2	9 49.38	+10 32.1	2.027	2.808	14.4	21.7
1 12	9 44.42	+11 5.2	1.955	2.826	11.1	21.5
1 22	9 37.28	+11 51.3	1.906	2.844	7.3	21.3
2 1	9 28.59	+12 46.5	1.884	2.861	3.2	21.1
2 11	9 19.27	+13 45.3	1.892	2.877	1.3	21.0
2 21	9 10.33	+14 42.0	1.930	2.893	5.4	21.3
3 2	9 2.72	+15 31.9	1.996	2.908	9.2	21.5
3 12	8 57.14	+16 11.9	2.087	2.923	12.5	21.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
416211 2002 UB_{31}			2 7.7 110°.28	9°.1/29.6 18		
	h m	° ′			°	m
1 2	9 59.14	+41 29.2	2.290	3.074	12.8	21.4
1 12	9 52.36	+43 35.5	2.257	3.103	10.9	21.3
1 22	9 42.68	+45 30.4	2.249	3.131	9.5	21.3
2 1	9 30.86	+47 3.9	2.269	3.157	9.1	21.3
2 11	9 18.17	+48 8.4	2.317	3.183	10.0	21.4
2 21	9 6.04	+48 41.4	2.390	3.208	11.5	21.5
3 2	8 55.78	+48 44.6	2.487	3.233	13.2	21.7
3 12	8 48.29	+48 23.1	2.602	3.256	14.8	21.9
337764 2001 UT_{138}			2 7.7 108°.27	4°.1/ 4.1 18		
1 2	9 48.54	+27 2.6	2.448	3.253	11.5	21.1
1 12	9 43.62	+27 51.8	2.378	3.262	8.8	20.9
1 22	9 36.69	+28 41.0	2.333	3.271	6.2	20.8
2 1	9 28.33	+29 24.5	2.316	3.280	4.2	20.7
2 11	9 19.40	+29 57.0	2.329	3.289	4.7	20.7
2 21	9 10.81	+30 15.2	2.371	3.297	7.1	20.9
3 2	9 3.44	+30 17.8	2.440	3.305	9.7	21.1
3 12	8 57.95	+30 5.8	2.532	3.314	12.2	21.3
168805 2000 SN_{137}			2 7.7 56°.26	4°.7/10.6 18		
1 2	9 49.16	+ 3 4.3	1.349	2.133	20.2	19.2
1 12	9 45.08	+ 2 51.1	1.290	2.154	16.2	19.0
1 22	9 38.08	+ 3 1.8	1.250	2.175	11.7	18.8
2 1	9 28.98	+ 3 35.5	1.233	2.197	7.1	18.6
2 11	9 19.10	+ 4 27.4	1.242	2.219	4.7	18.5
2 21	9 9.86	+ 5 29.8	1.276	2.241	7.3	18.7
3 2	9 2.53	+ 6 34.5	1.336	2.264	11.5	19.0
3 12	8 57.98	+ 7 34.0	1.419	2.286	15.5	19.3
385295 2001 UY_{86}			2 7.7 91°.97	3°.2/ 4.9 18		
1 2	9 48.72	+24 17.7	2.482	3.284	11.4	21.7
1 12	9 43.60	+25 2.1	2.419	3.304	8.7	21.5
1 22	9 36.58	+25 47.7	2.382	3.323	5.8	21.4
2 1	9 28.26	+26 29.5	2.373	3.343	3.5	21.2
2 11	9 19.46	+27 2.5	2.394	3.362	3.8	21.3
2 21	9 11.05	+27 23.6	2.444	3.381	6.3	21.5
3 2	9 3.84	+27 31.4	2.523	3.399	9.1	21.7
3 12	8 58.43	+27 26.1	2.626	3.417	11.5	21.9
5356 Neagari			2 7.7 43°.95	5°.3/12.1 18		
1 2	9 43.88	− 1 59.2	1.548	2.309	19.0	16.2
1 12	9 40.84	− 1 39.3	1.477	2.322	15.6	16.0
1 22	9 35.28	− 0 50.8	1.425	2.335	11.7	15.8
2 1	9 27.85	+ 0 25.2	1.395	2.350	7.8	15.6
2 11	9 19.63	+ 2 3.2	1.392	2.364	5.3	15.5
2 21	9 11.80	+ 3 54.1	1.416	2.379	7.0	15.7
3 2	9 5.49	+ 5 47.5	1.467	2.395	10.6	15.9
3 12	9 1.54	+ 7 33.6	1.541	2.410	14.4	16.2
492598 2014 OK_{199}			2 7.8 225°.96	1°.8/ 6.5 17		
1 2	9 51.54	+17 14.7	1.976	2.773	14.1	23.4
1 12	9 46.55	+17 59.9	1.878	2.761	10.9	23.2
1 22	9 39.00	+18 54.9	1.804	2.748	7.1	22.9
2 1	9 29.44	+19 54.4	1.757	2.735	3.1	22.6
2 11	9 18.83	+20 51.6	1.740	2.721	2.7	22.6
2 21	9 8.35	+21 40.2	1.752	2.706	6.9	22.8
3 2	8 59.17	+22 15.8	1.792	2.690	11.0	23.0
3 12	8 52.26	+22 36.5	1.856	2.674	14.6	23.2
51856 2001 OT_{103}			2 7.8 215°.23	0°.7/ 8.2 18		
1 2	9 51.75	+12 48.3	2.214	2.991	13.4	18.5
1 12	9 46.27	+12 43.6	2.115	2.985	10.5	18.3
1 22	9 38.56	+12 47.3	2.040	2.977	7.0	18.0
2 1	9 29.18	+12 57.2	1.993	2.969	3.1	17.8
2 11	9 18.99	+13 10.1	1.976	2.961	1.4	17.6
2 21	9 9.00	+13 22.6	1.989	2.952	5.3	17.9
3 2	9 0.20	+13 31.9	2.032	2.943	9.2	18.1
3 12	8 53.36	+13 35.8	2.099	2.933	12.5	18.3
199009 2005 WU_{73}			2 7.8 127°.81	2°.7/ 5.9 18		
1 2	9 54.16	+19 11.8	1.710	2.515	15.7	21.3
1 12	9 48.58	+20 3.9	1.643	2.530	12.0	21.1
1 22	9 40.23	+21 3.8	1.599	2.545	7.7	20.9
2 1	9 29.87	+22 4.3	1.582	2.559	3.6	20.7
2 11	9 18.69	+22 57.6	1.594	2.572	3.6	20.7
2 21	9 8.05	+23 37.5	1.635	2.585	7.6	21.0
3 2	8 59.17	+24 0.9	1.702	2.597	11.6	21.2
3 12	8 52.92	+24 7.8	1.792	2.608	15.1	21.5
111042 2001 VN_{27}			2 7.8 20°.00	2°.6/ 9.8 18		
1 2	9 43.89	+ 6 4.2	2.114	2.887	14.1	19.2
1 12	9 40.25	+ 6 5.5	2.029	2.890	11.3	19.0
1 22	9 34.62	+ 6 21.4	1.967	2.894	7.9	18.8
2 1	9 27.54	+ 6 50.4	1.930	2.898	4.5	18.6
2 11	9 19.81	+ 7 29.3	1.922	2.902	2.7	18.5
2 21	9 12.32	+ 8 13.6	1.942	2.907	5.2	18.7
3 2	9 5.95	+ 8 58.6	1.990	2.912	8.7	18.9
3 12	9 1.39	+ 9 39.9	2.064	2.917	11.9	19.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
491687 2012 UX_{45}			2 7.8 75°.15	4°.2/ 5.4 18		
	h m	° ′			°	m
1 2	9 53.07	+21 6.0	1.288	2.116	18.5	21.2
1 12	9 48.55	+22 7.4	1.231	2.130	14.1	21.0
1 22	9 40.58	+23 17.2	1.194	2.144	9.3	20.8
2 1	9 30.08	+24 25.1	1.183	2.158	4.9	20.6
2 11	9 18.61	+25 20.6	1.197	2.173	5.3	20.6
2 21	9 7.89	+25 56.1	1.237	2.187	9.6	20.9
3 2	8 59.47	+26 9.1	1.302	2.201	14.1	21.2
3 12	8 54.31	+26 1.0	1.386	2.215	18.0	21.5
498544 2008 GB_{44}			2 7.8 257°.31	4°.3/11.0 17		
1 2	9 47.14	+ 1 8.4	2.213	2.954	14.5	22.2
1 12	9 42.88	+ 0 59.7	2.098	2.933	12.0	22.0
1 22	9 36.49	+ 1 7.9	2.005	2.912	9.0	21.7
2 1	9 28.40	+ 1 33.6	1.937	2.891	6.0	21.5
2 11	9 19.36	+ 2 15.1	1.898	2.869	4.3	21.4
2 21	9 10.32	+ 3 8.5	1.888	2.846	6.0	21.4
3 2	9 2.23	+ 4 8.6	1.906	2.823	9.3	21.6
3 12	8 55.95	+ 5 9.7	1.950	2.799	12.7	21.7
63173 2000 YX_{52}			2 7.8 338°.93	3°.0/ 5.3 18		
1 2	9 46.07	+19 43.4	1.897	2.711	14.0	19.1
1 12	9 42.35	+20 50.4	1.817	2.709	10.7	18.8
1 22	9 36.23	+22 5.9	1.760	2.708	6.9	18.6
2 1	9 28.27	+23 23.2	1.730	2.706	3.6	18.4
2 11	9 19.46	+24 34.3	1.729	2.705	3.9	18.4
2 21	9 10.90	+25 32.6	1.757	2.704	7.5	18.6
3 2	9 3.69	+26 13.8	1.811	2.703	11.2	18.8
3 12	8 58.68	+26 36.7	1.887	2.702	14.5	19.1
433539 2013 WE_{98}			2 7.8 74°.23	0°.4/ 8.0 18		
1 2	9 55.33	+15 12.9	2.259	3.035	13.2	20.9
1 12	9 48.56	+14 46.6	2.190	3.059	10.2	20.7
1 22	9 39.73	+14 25.7	2.145	3.083	6.7	20.5
2 1	9 29.55	+14 8.0	2.130	3.107	2.8	20.3
2 11	9 18.93	+13 51.4	2.145	3.130	1.3	20.2
2 21	9 8.85	+13 34.2	2.192	3.154	5.0	20.5
3 2	9 0.18	+13 15.0	2.269	3.177	8.5	20.8
3 12	8 53.54	+12 53.0	2.371	3.200	11.4	21.0
508571 2017 NB_{2}			2 7.8 204°.76	1°.3/ 6.7 17		
1 2	9 49.96	+18 17.1	2.547	3.335	11.6	22.4
1 12	9 44.65	+18 39.4	2.452	3.330	8.9	22.2
1 22	9 37.38	+19 7.0	2.381	3.324	5.8	22.0
2 1	9 28.67	+19 36.1	2.340	3.318	2.5	21.7
2 11	9 19.29	+20 2.5	2.329	3.311	2.0	21.7
2 21	9 10.11	+20 22.8	2.349	3.303	5.3	21.9
3 2	9 1.97	+20 34.6	2.398	3.295	8.6	22.1
3 12	8 55.56	+20 36.9	2.473	3.287	11.5	22.3
203870 2002 XF_{21}			2 7.8 342°.37	4°.3/10.7 18		
1 2	9 46.22	+ 3 8.8	2.102	2.858	14.7	19.5
1 12	9 42.10	+ 2 36.1	2.009	2.855	12.0	19.3
1 22	9 35.88	+ 2 18.0	1.938	2.852	8.9	19.1
2 1	9 28.10	+ 2 14.9	1.893	2.849	5.9	18.9
2 11	9 19.57	+ 2 25.4	1.875	2.847	4.3	18.8
2 21	9 11.24	+ 2 46.7	1.886	2.844	6.0	18.9
3 2	9 4.04	+ 3 14.8	1.925	2.842	9.2	19.1
3 12	8 58.70	+ 3 45.0	1.988	2.841	12.3	19.3
136760 1996 FX_{9}			2 7.8 11°.30	4°.6/10.7 18		
1 2	9 42.96	+ 3 19.8	1.292	2.091	20.1	19.5
1 12	9 40.68	+ 3 10.9	1.221	2.094	16.3	19.2
1 22	9 35.48	+ 3 27.2	1.168	2.098	11.8	19.0
2 1	9 28.04	+ 4 8.4	1.137	2.102	7.2	18.7
2 11	9 19.60	+ 5 9.7	1.130	2.108	4.6	18.6
2 21	9 11.55	+ 6 23.0	1.148	2.115	7.5	18.8
3 2	9 5.27	+ 7 38.9	1.190	2.124	12.0	19.0
3 12	9 1.73	+ 8 48.5	1.254	2.133	16.3	19.3
64404 2001 UT_{161}			2 7.8 237°.75	0°.9/ 8.4 18		
1 2	9 49.71	+10 42.5	1.674	2.467	16.4	20.0
1 12	9 45.46	+11 0.6	1.581	2.459	12.9	19.7
1 22	9 38.45	+11 34.3	1.510	2.450	8.7	19.4
2 1	9 29.28	+12 20.5	1.464	2.441	3.9	19.1
2 11	9 18.99	+13 13.3	1.447	2.432	1.7	18.9
2 21	9 8.89	+14 6.4	1.457	2.422	6.6	19.2
3 2	9 0.26	+14 53.4	1.494	2.412	11.3	19.5
3 12	8 54.13	+15 30.2	1.554	2.402	15.4	19.7
242729 2005 UL_{211}			2 7.8 288°.37	4°.2/11.7 17		
1 2	9 42.74	− 0 26.2	2.644	3.375	12.7	20.8
1 12	9 39.04	− 0 36.4	2.543	3.368	10.5	20.6
1 22	9 33.71	− 0 31.7	2.464	3.362	8.0	20.5
2 1	9 27.17	− 0 11.9	2.411	3.356	5.6	20.3
2 11	9 20.04	+ 0 21.5	2.386	3.350	4.2	20.2
2 21	9 13.03	+ 1 5.4	2.391	3.345	5.3	20.2
3 2	9 6.84	+ 1 55.7	2.424	3.339	7.7	20.4
3 12	9 2.07	+ 2 48.0	2.483	3.333	10.3	20.5

165938 2001 UP_{40} 2 7.8 49°.62 4°.8/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.23	+27 55.5	2.193	3.005	12.4	20.0
1 12	9 43.68	+28 50.3	2.123	3.010	9.6	19.9
1 22	9 36.89	+29 44.7	2.078	3.016	6.8	19.7
2 1	9 28.49	+30 32.3	2.060	3.022	4.9	19.6
2 11	9 19.43	+31 6.9	2.071	3.028	5.5	19.6
2 21	9 10.75	+31 24.8	2.111	3.035	8.0	19.8
3 2	9 3.41	+31 24.8	2.176	3.041	10.8	20.0
3 12	8 58.16	+31 8.2	2.264	3.047	13.4	20.2

359064 2008 YT_{91} 2 7.8 311°.11 1°.4/ 6.9 18

1 2	9 47.34	+15 36.2	1.397	2.219	17.6	21.2
1 12	9 44.23	+16 9.7	1.310	2.206	13.7	20.9
1 22	9 37.97	+16 57.8	1.243	2.193	8.9	20.6
2 1	9 29.17	+17 54.7	1.200	2.180	3.7	20.2
2 11	9 19.05	+18 52.2	1.184	2.168	2.7	20.1
2 21	9 9.13	+19 41.9	1.193	2.156	8.1	20.4
3 2	9 0.97	+20 17.6	1.228	2.144	13.3	20.7
3 12	8 55.74	+20 36.2	1.282	2.133	17.8	20.9

428976 2008 YW_{158} 2 7.8 355°.42 0°.1/ 7.9 15

1 2	9 44.18	+12 55.2	1.871	2.674	14.6	21.4
1 12	9 40.82	+13 15.7	1.787	2.671	11.3	21.2
1 22	9 35.19	+13 48.1	1.724	2.669	7.4	21.0
2 1	9 27.85	+14 28.9	1.688	2.667	3.1	20.7
2 11	9 19.73	+15 12.9	1.680	2.666	1.4	20.5
2 21	9 11.87	+15 54.7	1.700	2.665	5.9	20.8
3 2	9 5.29	+16 29.7	1.747	2.665	10.0	21.1
3 12	9 0.80	+16 54.8	1.818	2.666	13.5	21.3

16787 1997 AZ_1 2 7.8 62°.61 2°.1/ 6.2 18

1 2	9 47.69	+20 16.0	2.220	3.024	12.6	18.5
1 12	9 43.06	+20 44.0	2.148	3.034	9.6	18.3
1 22	9 36.39	+21 16.4	2.099	3.045	6.2	18.1
2 1	9 28.26	+21 48.6	2.079	3.056	2.9	17.9
2 11	9 19.57	+22 15.8	2.088	3.067	2.8	17.9
2 21	9 11.24	+22 34.3	2.126	3.078	6.0	18.2
3 2	9 4.16	+22 41.9	2.192	3.089	9.3	18.4
3 12	8 59.00	+22 38.3	2.282	3.100	12.2	18.6

41549 2000 RN_{46} 2 7.8 130°.53 1°.5/ 6.8 18

1 2	9 53.89	+17 45.5	1.826	2.624	15.1	19.4
1 12	9 48.20	+18 10.8	1.753	2.636	11.6	19.2
1 22	9 39.92	+18 43.5	1.704	2.648	7.5	19.0
2 1	9 29.76	+19 18.4	1.681	2.660	3.1	18.8
2 11	9 18.85	+19 49.5	1.688	2.671	2.5	18.7
2 21	9 8.43	+20 12.1	1.724	2.681	6.7	19.0
3 2	8 59.64	+20 23.5	1.788	2.691	10.7	19.3
3 12	8 53.31	+20 22.9	1.875	2.700	14.1	19.5

193935 2001 RX_{27} 2 7.8 160°.56 0°.5/ 8.1 18

1 2	9 52.38	+11 32.5	1.974	2.753	14.8	22.3
1 12	9 46.91	+11 58.9	1.891	2.762	11.5	22.1
1 22	9 39.05	+12 37.9	1.831	2.769	7.6	21.9
2 1	9 29.42	+13 25.7	1.798	2.775	3.2	21.6
2 11	9 19.00	+14 16.8	1.796	2.781	1.4	21.5
2 21	9 8.89	+15 5.7	1.823	2.786	5.8	21.8
3 2	9 0.17	+15 47.8	1.879	2.790	9.8	22.0
3 12	8 53.65	+16 20.0	1.960	2.792	13.3	22.3

16522 Tell 2 7.8 190°.81 3°.3/10.4 18

1 2	9 46.99	+ 4 15.6	2.619	3.364	12.4	18.4
1 12	9 42.24	+ 3 50.1	2.523	3.364	10.0	18.2
1 22	9 35.76	+ 3 36.0	2.450	3.363	7.3	18.0
2 1	9 28.01	+ 3 33.0	2.404	3.362	4.6	17.8
2 11	9 19.67	+ 3 40.0	2.388	3.361	3.3	17.7
2 21	9 11.51	+ 3 54.5	2.402	3.360	4.9	17.9
3 2	9 4.27	+ 4 13.6	2.445	3.359	7.7	18.0
3 12	8 58.55	+ 4 34.1	2.515	3.357	10.4	18.2

496268 2012 SR_4 2 7.8 15°.75 4°.7/ 3.9 18

1 2	9 48.20	+27 43.4	2.164	2.977	12.5	20.3
1 12	9 43.72	+28 34.3	2.090	2.978	9.7	20.1
1 22	9 36.96	+29 25.2	2.041	2.980	6.9	19.9
2 1	9 28.55	+30 9.4	2.018	2.981	4.9	19.8
2 11	9 19.43	+30 41.1	2.025	2.983	5.5	19.8
2 21	9 10.67	+30 56.2	2.059	2.985	8.0	20.0
3 2	9 3.26	+30 53.6	2.119	2.988	10.9	20.2
3 12	8 57.96	+30 34.3	2.202	2.990	13.6	20.4

200746 2001 VA_{118} 2 7.8 103°.60 2°.8/ 9.5 18

1 2	9 52.74	+ 6 50.7	1.657	2.432	17.3	20.3
1 12	9 47.39	+ 6 46.0	1.588	2.451	13.7	20.1
1 22	9 39.42	+ 6 58.1	1.541	2.470	9.5	19.9
2 1	9 29.56	+ 7 25.3	1.519	2.489	5.1	19.7
2 11	9 18.97	+ 8 3.0	1.525	2.507	2.9	19.6
2 21	9 8.91	+ 8 45.6	1.560	2.525	6.3	19.9
3 2	9 0.52	+ 9 27.6	1.622	2.542	10.4	20.1
3 12	8 54.63	+10 4.3	1.708	2.558	14.1	20.4

153892 2001 XE_{196} 2 7.8 69°.14 0°.7/ 7.3 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.98	+14 27.0	1.779	2.582	15.2	20.3
1 12	9 43.71	+15 4.1	1.711	2.596	11.6	20.0
1 22	9 37.01	+15 52.6	1.665	2.611	7.5	19.8
2 1	9 28.58	+16 47.3	1.646	2.626	3.0	19.6
2 11	9 19.44	+17 41.6	1.656	2.640	1.9	19.5
2 21	9 10.74	+18 29.6	1.694	2.655	6.3	19.8
3 2	9 3.54	+19 6.9	1.759	2.670	10.3	20.1
3 12	8 58.61	+19 31.2	1.847	2.685	13.8	20.4

456650 2007 RY_{18} 2 7.8 116°.88 1°.3/ 6.9 18

1 2	9 52.92	+16 26.8	1.846	2.642	15.0	21.6
1 12	9 47.38	+17 0.8	1.778	2.660	11.5	21.4
1 22	9 39.34	+17 43.7	1.733	2.678	7.4	21.2
2 1	9 29.52	+18 30.0	1.716	2.694	3.0	20.9
2 11	9 19.01	+19 13.4	1.727	2.710	2.3	20.9
2 21	9 8.99	+19 48.7	1.769	2.726	6.4	21.2
3 2	9 0.57	+20 12.7	1.837	2.741	10.4	21.5
3 12	8 54.52	+20 24.0	1.930	2.755	13.8	21.7

471795 2012 VC_{55} 2 7.8 149°.62 2°.8/10.6 17

1 2	9 44.54	+ 3 13.5	2.890	3.630	11.5	22.3
1 12	9 40.19	+ 3 15.4	2.799	3.637	9.3	22.2
1 22	9 34.34	+ 3 29.5	2.731	3.643	6.7	22.0
2 1	9 27.41	+ 3 55.0	2.691	3.650	4.2	21.8
2 11	9 20.01	+ 4 29.7	2.681	3.656	2.8	21.8
2 21	9 12.78	+ 5 10.4	2.702	3.661	4.3	21.9
3 2	9 6.36	+ 5 53.7	2.752	3.667	6.9	22.0
3 12	9 1.28	+ 6 36.0	2.829	3.672	9.4	22.2

502084 2015 AO_{238} 2 7.8 48°.70 3°.9/10.8 17

1 2	9 45.22	+ 2 41.7	2.076	2.833	14.9	21.7
1 12	9 41.33	+ 2 34.1	1.989	2.836	12.1	21.5
1 22	9 35.38	+ 2 43.4	1.923	2.839	8.9	21.3
2 1	9 27.92	+ 3 9.0	1.884	2.842	5.6	21.1
2 11	9 19.76	+ 3 48.2	1.871	2.846	3.9	21.0
2 21	9 11.83	+ 4 36.7	1.888	2.849	5.7	21.1
3 2	9 5.04	+ 5 29.3	1.932	2.853	9.0	21.3
3 12	9 0.11	+ 6 20.7	2.002	2.857	12.1	21.5

344241 2001 SQ_{145} 2 7.8 136°.47 3°.9/11.8 18

1 2	9 44.18	− 0 41.1	2.717	3.441	12.5	21.4
1 12	9 40.01	− 0 36.4	2.627	3.450	10.3	21.2
1 22	9 34.27	− 0 16.3	2.560	3.458	7.7	21.1
2 1	9 27.40	+ 0 18.8	2.520	3.467	5.3	20.9
2 11	9 20.02	+ 1 6.5	2.508	3.475	3.9	20.9
2 21	9 12.83	+ 2 3.1	2.527	3.483	4.9	20.9
3 2	9 6.51	+ 3 4.4	2.576	3.490	7.3	21.1
3 12	9 1.59	+ 4 5.7	2.651	3.497	9.8	21.3

73929 1997 OK_1 2 7.8 83°.12 0°.7/ 7.1 18

1 2	9 49.96	+15 35.0	2.386	3.171	12.4	20.8
1 12	9 44.43	+16 7.9	2.329	3.205	9.4	20.7
1 22	9 37.08	+16 47.5	2.297	3.239	6.0	20.5
2 1	9 28.51	+17 29.9	2.293	3.272	2.4	20.3
2 11	9 19.54	+18 10.4	2.321	3.305	1.6	20.3
2 21	9 11.03	+18 45.2	2.379	3.336	5.0	20.6
3 2	9 3.74	+19 11.6	2.466	3.368	8.2	20.9
3 12	8 58.24	+19 28.5	2.579	3.399	10.9	21.1

439730 2015 ED_{65} 2 7.8 283°.06 11°.5/25.6 18

1 2	10 2.03	+54 7.2	2.479	3.223	13.1	20.1
1 12	9 55.35	+55 32.9	2.418	3.207	12.1	20.0
1 22	9 45.06	+56 42.6	2.379	3.192	11.6	19.9
2 1	9 32.03	+57 26.6	2.363	3.176	11.7	19.9
2 11	9 17.81	+57 38.1	2.370	3.161	12.4	19.9
2 21	9 4.25	+57 15.0	2.399	3.145	13.6	20.0
3 2	8 53.02	+56 19.9	2.447	3.129	14.9	20.1
3 12	8 45.21	+54 58.8	2.512	3.114	16.3	20.1

35388 1997 WY_{56} 2 7.8 78°.28 2°.8/ 9.4 18

1 2	9 52.39	+ 7 37.3	1.485	2.272	18.5	19.2
1 12	9 47.36	+ 7 29.0	1.423	2.293	14.6	19.0
1 22	9 39.51	+ 7 38.4	1.381	2.314	10.0	18.8
2 1	9 29.63	+ 8 3.3	1.363	2.335	5.3	18.5
2 11	9 19.00	+ 8 38.8	1.373	2.355	2.9	18.4
2 21	9 9.01	+ 9 19.0	1.410	2.376	6.6	18.7
3 2	9 0.87	+ 9 58.0	1.473	2.396	11.1	19.0
3 12	8 55.43	+10 30.9	1.560	2.416	14.9	19.3

205795 2002 CX_{132} 2 7.8 53°.60 1°.1/ 7.2 18

1 2	9 52.98	+17 9.4	1.422	2.236	17.8	19.9
1 12	9 48.18	+17 14.8	1.352	2.244	13.7	19.7
1 22	9 40.25	+17 29.3	1.304	2.251	8.9	19.4
2 1	9 30.00	+17 47.7	1.280	2.259	3.6	19.2
2 11	9 18.82	+18 3.8	1.283	2.268	2.4	19.1
2 21	9 8.23	+18 12.7	1.314	2.276	7.5	19.4
3 2	8 59.66	+18 11.4	1.369	2.285	12.3	19.7
3 12	8 54.05	+17 59.1	1.447	2.293	16.4	20.0

33845 2000 GT_{157} 2 7.8 254°.24 4°.0/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 52.30	+21 55.3	1.615	2.431	15.9	19.4
1 12	9 47.82	+22 50.5	1.524	2.417	12.3	19.2
1 22	9 40.22	+23 53.8	1.456	2.403	8.2	18.9
2 1	9 30.11	+24 57.1	1.414	2.388	4.6	18.6
2 11	9 18.69	+25 51.1	1.399	2.373	5.0	18.6
2 21	9 7.46	+26 28.4	1.412	2.358	9.1	18.8
3 2	8 57.92	+26 45.0	1.450	2.342	13.5	19.0
3 12	8 51.24	+26 41.1	1.510	2.326	17.4	19.2

167702 2004 TO_{34} 2 7.8 311°.07 0°.8/ 8.2 18

1 2	9 47.94	+11 45.3	1.399	2.211	18.2	20.6
1 12	9 44.61	+11 54.8	1.312	2.201	14.3	20.3
1 22	9 38.18	+12 20.8	1.246	2.191	9.6	20.0
2 1	9 29.28	+12 59.8	1.203	2.181	4.2	19.7
2 11	9 19.11	+13 45.7	1.186	2.171	1.8	19.5
2 21	9 9.16	+14 31.3	1.195	2.162	7.4	19.8
3 2	9 0.96	+15 10.0	1.229	2.153	12.6	20.1
3 12	8 55.62	+15 37.3	1.285	2.145	17.2	20.3

461998 2006 WW_{139} 2 7.8 213°.77 2°.6/ 9.8 16

1 2	9 48.68	+ 5 48.3	2.249	3.007	13.8	21.5
1 12	9 43.93	+ 5 50.5	2.148	3.000	11.1	21.3
1 22	9 37.09	+ 6 6.7	2.069	2.992	7.9	21.1
2 1	9 28.66	+ 6 36.0	2.017	2.983	4.4	20.9
2 11	9 19.43	+ 7 15.3	1.994	2.974	2.7	20.8
2 21	9 10.32	+ 8 0.3	2.001	2.964	5.3	20.9
3 2	9 2.26	+ 8 46.6	2.038	2.954	8.8	21.1
3 12	8 56.03	+ 9 29.6	2.100	2.943	12.1	21.3

357600 2005 AN_{2} 2 7.8 28°.15 2°.3/ 6.5 18

1 2	9 46.94	+16 49.0	1.199	2.034	19.1	20.2
1 12	9 44.00	+17 37.0	1.141	2.044	14.6	20.0
1 22	9 37.75	+18 38.9	1.102	2.055	9.4	19.7
2 1	9 29.02	+19 46.3	1.087	2.066	4.0	19.4
2 11	9 19.30	+20 49.0	1.097	2.079	3.5	19.4
2 21	9 10.23	+21 38.2	1.132	2.092	8.7	19.8
3 2	9 3.31	+22 8.8	1.190	2.107	13.7	20.1
3 12	8 59.51	+22 19.6	1.268	2.121	17.9	20.4

437321 2013 PG_{44} 2 7.8 56°.62 13°.1/30.3 16

1 2	10 9.94	+53 56.5	1.950	2.701	15.9	20.1
1 12	10 1.33	+55 20.5	1.935	2.732	14.4	20.0
1 22	9 48.61	+56 21.1	1.940	2.763	13.4	20.0
2 1	9 33.25	+56 47.9	1.967	2.794	13.1	20.1
2 11	9 17.44	+56 35.5	2.016	2.825	13.6	20.2
2 21	9 3.37	+55 45.3	2.087	2.855	14.6	20.3
3 2	8 52.61	+54 23.8	2.178	2.886	15.9	20.5
3 12	8 45.86	+52 40.0	2.287	2.917	17.1	20.6

337688 2001 TQ_{240} 2 7.8 97°.23 5°.3/12.7 17

1 2	9 44.70	− 3 31.3	2.495	3.208	13.7	21.1
1 12	9 40.55	− 3 50.4	2.410	3.219	11.5	21.0
1 22	9 34.69	− 3 52.3	2.346	3.230	9.0	20.8
2 1	9 27.60	− 3 36.4	2.308	3.240	6.7	20.7
2 11	9 19.98	− 3 4.1	2.297	3.251	5.3	20.6
2 21	9 12.58	− 2 18.7	2.316	3.261	6.0	20.7
3 2	9 6.12	− 1 24.6	2.362	3.272	8.1	20.8
3 12	9 1.21	− 0 27.1	2.435	3.282	10.5	21.0

427404 1999 CO_{135} 2 7.8 292°.10 1°.6/ 6.6 17

1 2	9 48.77	+19 17.9	2.201	3.001	12.8	21.1
1 12	9 44.20	+19 32.1	2.096	2.981	9.9	20.8
1 22	9 37.38	+19 51.5	2.016	2.961	6.4	20.6
2 1	9 28.82	+20 12.1	1.963	2.941	2.8	20.3
2 11	9 19.37	+20 29.3	1.939	2.920	2.4	20.2
2 21	9 10.05	+20 39.4	1.945	2.900	6.1	20.4
3 2	9 1.88	+20 39.8	1.978	2.880	9.9	20.6
3 12	8 55.68	+20 29.7	2.036	2.860	13.2	20.8

235486 2004 BT_{64} 2 7.8 19°.81 0°.7/ 7.3 18

1 2	9 46.54	+15 35.4	2.111	2.910	13.3	20.9
1 12	9 42.36	+15 57.6	2.028	2.911	10.2	20.7
1 22	9 36.07	+16 28.1	1.968	2.912	6.6	20.5
2 1	9 28.22	+17 3.3	1.935	2.914	2.7	20.2
2 11	9 19.68	+17 38.3	1.931	2.915	1.7	20.2
2 21	9 11.42	+18 8.7	1.957	2.917	5.6	20.4
3 2	9 4.36	+18 31.1	2.010	2.919	9.3	20.7
3 12	8 59.23	+18 43.7	2.087	2.921	12.6	20.9

377416 2004 TH_{113} 2 7.8 170°.18 3°.8/ 4.2 13 C

1 2	9 51.03	+26 48.4	2.720	3.515	10.7	22.7
1 12	9 45.41	+27 38.8	2.641	3.520	8.3	22.5
1 22	9 37.85	+28 29.3	2.588	3.524	5.8	22.4
2 1	9 28.91	+29 14.8	2.564	3.527	3.9	22.2
2 11	9 19.37	+29 50.1	2.571	3.530	4.4	22.3
2 21	9 10.09	+30 12.0	2.608	3.532	6.6	22.4
3 2	9 1.92	+30 19.1	2.673	3.533	9.2	22.6
3 12	8 55.51	+30 12.0	2.762	3.534	11.5	22.8

462014 2006 XA_{62} 2 7.8 48°.17 6°.3/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.77	+25 22.6	1.550	2.380	15.8	20.8
1 12	9 44.22	+27 17.0	1.494	2.392	12.1	20.6
1 22	9 37.71	+29 15.9	1.461	2.405	8.5	20.4
2 1	9 28.99	+31 7.4	1.455	2.418	6.4	20.3
2 11	9 19.32	+32 40.1	1.476	2.431	7.5	20.4
2 21	9 10.15	+33 46.1	1.523	2.445	10.6	20.6
3 2	9 2.81	+34 22.8	1.594	2.459	14.0	20.9
3 12	8 58.24	+34 32.4	1.685	2.473	17.1	21.1

468291 2015 DV_{161} 2 7.8 51°.19 2°.7/ 5.4 17

1 2	9 45.44	+19 34.4	2.068	2.878	13.1	21.0
1 12	9 41.63	+20 40.5	1.994	2.885	10.0	20.8
1 22	9 35.64	+21 53.9	1.944	2.891	6.5	20.6
2 1	9 28.06	+23 8.4	1.922	2.898	3.3	20.5
2 11	9 19.77	+24 16.9	1.929	2.905	3.6	20.5
2 21	9 11.77	+25 13.6	1.966	2.912	6.9	20.7
3 2	9 5.02	+25 54.8	2.029	2.920	10.2	20.9
3 12	9 0.26	+26 19.3	2.116	2.927	13.2	21.1

209514 2004 RT_{94} 2 7.8 123°.77 2°.3/ 9.2 18

1 2	9 52.71	+ 8 24.2	1.709	2.487	16.8	21.3
1 12	9 47.42	+ 8 17.9	1.633	2.500	13.2	21.1
1 22	9 39.50	+ 8 26.6	1.579	2.512	9.1	20.9
2 1	9 29.66	+ 8 48.2	1.551	2.523	4.7	20.7
2 11	9 19.02	+ 9 18.8	1.551	2.534	2.5	20.5
2 21	9 8.82	+ 9 53.1	1.580	2.545	6.2	20.8
3 2	9 0.22	+10 26.2	1.636	2.555	10.4	21.1
3 12	8 54.09	+10 54.1	1.716	2.564	14.2	21.3

93483 2000 TM_{22} 2 7.8 59°.26 0°.3/ 7.6 18

1 2	9 51.35	+15 37.3	1.753	2.554	15.5	19.1
1 12	9 46.26	+15 37.4	1.685	2.569	11.9	18.9
1 22	9 38.65	+15 45.9	1.640	2.585	7.7	18.7
2 1	9 29.27	+15 59.0	1.622	2.600	3.1	18.4
2 11	9 19.23	+16 12.1	1.631	2.616	1.6	18.4
2 21	9 9.73	+16 21.4	1.670	2.632	6.1	18.7
3 2	9 1.86	+16 24.1	1.735	2.649	10.3	19.0
3 12	8 56.38	+16 18.9	1.824	2.665	13.8	19.2

60167 1999 UN_{33} 2 7.8 297°.44 4°.0/10.6 18

1 2	9 44.96	+ 3 10.7	1.939	2.703	15.5	18.6
1 12	9 41.47	+ 3 2.4	1.836	2.688	12.7	18.4
1 22	9 35.71	+ 3 11.9	1.754	2.673	9.3	18.2
2 1	9 28.17	+ 3 39.1	1.697	2.658	5.8	17.9
2 11	9 19.69	+ 4 21.6	1.667	2.643	4.0	17.8
2 21	9 11.28	+ 5 14.7	1.666	2.629	6.2	17.9
3 2	9 4.01	+ 6 12.8	1.692	2.614	9.9	18.1
3 12	8 58.73	+ 7 9.7	1.741	2.600	13.5	18.3

67956 2000 WW_{167} 2 7.8 138°.04 3°.5/ 4.7 18

1 2	9 48.66	+22 30.0	2.166	2.972	12.7	19.7
1 12	9 44.02	+23 38.4	2.092	2.980	9.7	19.5
1 22	9 37.17	+24 51.4	2.044	2.987	6.5	19.3
2 1	9 28.68	+26 2.5	2.023	2.994	3.8	19.2
2 11	9 19.48	+27 4.7	2.032	3.001	4.3	19.2
2 21	9 10.58	+27 52.7	2.070	3.007	7.3	19.4
3 2	9 2.96	+28 23.7	2.136	3.013	10.4	19.6
3 12	8 57.38	+28 37.5	2.225	3.019	13.2	19.8

432186 2009 DH_{4} 2 7.8 94°.46 0°.7/ 7.3 17

1 2	9 48.65	+16 49.6	2.329	3.121	12.4	21.1
1 12	9 43.71	+16 58.2	2.248	3.128	9.5	21.0
1 22	9 36.80	+17 12.6	2.191	3.134	6.1	20.8
2 1	9 28.49	+17 29.6	2.162	3.141	2.5	20.5
2 11	9 19.60	+17 45.4	2.163	3.147	1.6	20.5
2 21	9 11.02	+17 56.8	2.194	3.154	5.2	20.7
3 2	9 3.61	+18 1.7	2.254	3.160	8.6	21.0
3 12	8 58.02	+17 58.9	2.338	3.166	11.6	21.2

489576 2007 TW_{75} 2 7.8 173°.37 5°.0/ 3.9 18

1 2	9 55.81	+28 19.5	2.186	2.985	12.9	22.2
1 12	9 49.57	+29 17.5	2.110	2.989	10.1	22.0
1 22	9 40.81	+30 15.2	2.058	2.992	7.2	21.9
2 1	9 30.20	+31 5.0	2.035	2.995	5.2	21.8
2 11	9 18.78	+31 40.2	2.042	2.997	5.8	21.8
2 21	9 7.75	+31 56.8	2.077	2.998	8.3	21.9
3 2	8 58.23	+31 53.8	2.140	2.998	11.3	22.1
3 12	8 51.05	+31 33.2	2.226	2.997	13.9	22.3

217453 2005 TH_{172} 2 7.8 182°.57 4°.3/10.8 18

1 2	9 49.54	+ 2 14.3	2.256	2.996	14.3	20.6
1 12	9 44.50	+ 1 48.1	2.162	2.997	11.7	20.4
1 22	9 37.41	+ 1 36.5	2.089	2.997	8.7	20.2
2 1	9 28.79	+ 1 39.8	2.043	2.997	5.8	20.0
2 11	9 19.44	+ 1 56.5	2.026	2.996	4.3	19.9
2 21	9 10.28	+ 2 23.7	2.039	2.995	5.9	20.0
3 2	9 2.21	+ 2 57.2	2.080	2.993	8.8	20.2
3 12	8 55.97	+ 3 32.5	2.146	2.991	11.9	20.4

458812 2011 SE_{256} 2 7.8 191°.79 0°.7/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.41	+14 31.1	1.929	2.720	14.6	22.1
1 12	9 46.39	+15 6.1	1.840	2.719	11.3	21.9
1 22	9 38.87	+15 52.3	1.774	2.717	7.4	21.7
2 1	9 29.45	+16 45.2	1.736	2.714	3.0	21.4
2 11	9 19.12	+17 38.4	1.727	2.711	1.8	21.3
2 21	9 9.03	+18 26.2	1.748	2.707	6.3	21.6
3 2	9 0.31	+19 3.9	1.796	2.702	10.4	21.8
3 12	8 53.84	+19 29.3	1.869	2.697	14.0	22.0

270437 2002 CR_{100} 2 7.8 331°.41 0°.7/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.63	+10 29.0	1.738	2.538	15.7	20.1
1 12	9 41.42	+10 58.9	1.650	2.531	12.3	19.8
1 22	9 35.76	+11 44.9	1.583	2.525	8.2	19.6
2 1	9 28.20	+12 43.5	1.542	2.519	3.6	19.3
2 11	9 19.71	+13 48.6	1.528	2.513	1.5	19.1
2 21	9 11.42	+14 53.3	1.542	2.508	6.2	19.4
3 2	9 4.48	+15 51.1	1.583	2.504	10.6	19.7
3 12	8 59.78	+16 37.5	1.647	2.499	14.5	19.9

85701 1998 RV_{73} 2 7.8 357°.47 1°.9/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.65	+10 19.9	1.448	2.254	17.9	18.2
1 12	9 44.13	+10 8.6	1.369	2.252	14.2	17.9
1 22	9 37.69	+10 12.5	1.309	2.250	9.6	17.7
2 1	9 29.03	+10 29.7	1.274	2.249	4.7	17.4
2 11	9 19.33	+10 55.7	1.265	2.249	2.3	17.2
2 21	9 9.98	+11 24.9	1.282	2.249	6.9	17.5
3 2	9 2.35	+11 51.8	1.324	2.250	11.7	17.8
3 12	8 57.42	+12 12.2	1.388	2.252	16.0	18.0

331664 2002 PC_{106} 2 7.8 121°.28 3°.8/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.68	+ 1 46.3	2.444	3.182	13.4	21.3
1 12	9 42.08	+ 1 32.8	2.359	3.193	10.9	21.2
1 22	9 35.70	+ 1 33.9	2.297	3.203	8.1	21.0
2 1	9 28.04	+ 1 49.2	2.261	3.214	5.3	20.8
2 11	9 19.83	+ 2 16.8	2.254	3.224	3.8	20.8
2 21	9 11.85	+ 2 53.3	2.277	3.234	5.3	20.9
3 2	9 4.88	+ 3 34.6	2.328	3.243	8.0	21.1
3 12	8 59.54	+ 4 16.5	2.406	3.252	10.7	21.2

369106 2008 HA_{63} 2 7.8 284°.48 5°.6/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.30	− 1 12.4	1.837	2.584	16.9	21.3
1 12	9 41.81	− 1 25.2	1.741	2.576	14.1	21.1
1 22	9 35.96	− 1 16.1	1.665	2.569	10.8	20.8
2 1	9 28.29	− 0 44.0	1.612	2.561	7.5	20.6
2 11	9 19.68	+ 0 9.0	1.586	2.553	5.6	20.5
2 21	9 11.19	+ 1 17.9	1.588	2.545	7.0	20.6
3 2	9 3.93	+ 2 35.7	1.616	2.537	10.3	20.7
3 12	8 58.76	+ 3 54.6	1.668	2.530	13.8	20.9

373641 2002 PJ_{9} 2 7.8 64°.70 2°.4/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.53	+ 7 5.8	2.009	2.780	14.8	20.1
1 12	9 43.70	+ 7 4.0	1.946	2.807	11.7	19.9
1 22	9 36.79	+ 7 16.2	1.906	2.834	8.1	19.7
2 1	9 28.48	+ 7 40.3	1.891	2.861	4.3	19.6
2 11	9 19.66	+ 8 12.6	1.906	2.888	2.5	19.5
2 21	9 11.31	+ 8 48.9	1.950	2.914	5.2	19.7
3 2	9 4.29	+ 9 24.6	2.022	2.941	8.7	20.0
3 12	8 59.25	+ 9 56.1	2.119	2.967	11.8	20.2

258475 2002 AL_{12} 2 7.8 52°.09 2°.6/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.02	+10 3.9	1.625	2.412	17.1	20.0
1 12	9 47.63	+ 9 26.2	1.559	2.430	13.5	19.8
1 22	9 39.59	+ 9 0.7	1.515	2.449	9.2	19.6
2 1	9 29.69	+ 8 46.3	1.495	2.467	4.8	19.3
2 11	9 19.10	+ 8 40.7	1.504	2.486	2.7	19.3
2 21	9 9.11	+ 8 40.5	1.541	2.506	6.3	19.5
3 2	9 0.88	+ 8 42.4	1.605	2.525	10.5	19.8
3 12	8 55.17	+ 8 43.0	1.692	2.545	14.1	20.1

408398 2013 GV_{111} 2 7.8 314°.54 4°.5/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.17	+21 31.8	1.368	2.202	17.2	20.6
1 12	9 44.37	+22 34.9	1.281	2.184	13.4	20.3
1 22	9 38.26	+23 48.9	1.216	2.167	9.0	20.0
2 1	9 29.42	+25 4.9	1.175	2.150	5.1	19.7
2 11	9 19.12	+26 11.6	1.159	2.133	5.7	19.7
2 21	9 8.99	+26 59.6	1.169	2.117	10.2	19.9
3 2	9 0.71	+27 23.6	1.201	2.102	15.0	20.1
3 12	8 55.56	+27 23.2	1.254	2.087	19.2	20.4

79215 1994 HU 2 7.8 26°.85 0°.6/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.38	+11 40.8	2.007	2.799	14.1	19.9
1 12	9 41.55	+11 57.8	1.925	2.803	10.9	19.7
1 22	9 35.59	+12 26.6	1.867	2.808	7.2	19.5
2 1	9 28.06	+13 4.0	1.835	2.812	3.2	19.3
2 11	9 19.84	+13 45.4	1.832	2.817	1.3	19.1
2 21	9 11.91	+14 25.9	1.858	2.823	5.4	19.4
3 2	9 5.20	+15 1.3	1.911	2.828	9.3	19.7
3 12	9 0.45	+15 28.3	1.988	2.834	12.6	19.9

34735 2001 QA_{69} 2 7.8 96°.08 2°.0/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.65	+ 7 20.2	2.488	3.250	12.5	19.0
1 12	9 41.97	+ 7 24.6	2.412	3.269	9.9	18.8
1 22	9 35.57	+ 7 40.5	2.360	3.287	6.8	18.7
2 1	9 27.97	+ 8 6.2	2.335	3.305	3.6	18.5
2 11	9 19.90	+ 8 38.6	2.341	3.323	2.0	18.4
2 21	9 12.12	+ 9 14.0	2.376	3.340	4.5	18.6
3 2	9 5.37	+ 9 49.0	2.441	3.357	7.6	18.8
3 12	9 0.22	+10 20.3	2.532	3.374	10.3	19.0

87305 2000 PB_{27} 2 7.8 352°.73 2°.1/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.99	+20 48.4	1.500	2.319	16.8	17.7
1 12	9 47.47	+20 42.1	1.421	2.315	13.0	17.4
1 22	9 39.85	+20 39.7	1.363	2.311	8.5	17.2
2 1	9 29.91	+20 36.2	1.330	2.308	3.8	16.9
2 11	9 18.96	+20 26.3	1.324	2.306	3.1	16.8
2 21	9 8.51	+20 6.6	1.345	2.305	7.7	17.1
3 2	8 59.96	+19 36.0	1.391	2.304	12.4	17.4
3 12	8 54.29	+18 55.4	1.460	2.304	16.4	17.6

346915 2009 WY_{125} 2 7.8 132°.81 3°.1/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.98	+ 6 13.0	1.529	2.309	18.3	21.5
1 12	9 47.22	+ 6 12.1	1.453	2.318	14.6	21.3
1 22	9 39.58	+ 6 30.5	1.397	2.327	10.2	21.0
2 1	9 29.79	+ 7 6.6	1.366	2.335	5.6	20.8
2 11	9 19.03	+ 7 55.6	1.361	2.343	3.2	20.6
2 21	9 8.69	+ 8 50.6	1.385	2.351	6.8	20.9
3 2	9 0.08	+ 9 44.9	1.435	2.357	11.3	21.1
3 12	8 54.15	+10 32.5	1.508	2.364	15.4	21.4

144341 2004 DS_{32} 2 7.8 255°.05 1°.2/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.95	+16 10.1	1.841	2.644	14.8	20.6
1 12	9 44.69	+16 42.2	1.750	2.636	11.4	20.3
1 22	9 37.88	+17 24.6	1.681	2.627	7.4	20.1
2 1	9 29.09	+18 12.6	1.639	2.618	3.1	19.8
2 11	9 19.33	+18 59.7	1.626	2.609	2.3	19.7
2 21	9 9.78	+19 40.2	1.641	2.600	6.7	20.0
3 2	9 1.60	+20 9.5	1.683	2.591	10.9	20.2
3 12	8 55.73	+20 25.7	1.749	2.582	14.6	20.4

120924 1998 SS_{104} 2 7.8 259°.84 4°.9/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.07	+23 14.4	1.491	2.314	16.7	19.7
1 12	9 47.87	+24 18.2	1.408	2.304	12.9	19.4
1 22	9 40.37	+25 29.5	1.348	2.295	8.8	19.1
2 1	9 30.24	+26 39.0	1.312	2.284	5.3	18.9
2 11	9 18.77	+27 36.2	1.304	2.274	5.9	18.9
2 21	9 7.60	+28 13.0	1.322	2.264	9.9	19.1
3 2	8 58.31	+28 26.1	1.364	2.253	14.3	19.3
3 12	8 52.09	+28 16.3	1.426	2.243	18.2	19.6

428034 2006 DG_{16} 2 7.8 284°.72 1°.0/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.29	+15 24.8	1.998	2.800	13.8	21.2
1 12	9 42.40	+16 5.1	1.910	2.795	10.6	21.0
1 22	9 36.25	+16 55.9	1.845	2.791	6.9	20.8
2 1	9 28.38	+17 52.6	1.807	2.786	2.8	20.5
2 11	9 19.69	+18 49.1	1.798	2.782	2.1	20.4
2 21	9 11.21	+19 39.5	1.818	2.777	6.1	20.7
3 2	9 3.96	+20 19.5	1.866	2.773	10.1	20.9
3 12	8 58.76	+20 46.6	1.937	2.769	13.5	21.1

500556 2012 UY_{49} 2 7.8 127°.88 1°.0/ 8.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.80	+ 9 18.7	2.763	3.531	11.3	22.3
1 12	9 40.48	+ 9 41.1	2.679	3.542	8.8	22.2
1 22	9 34.59	+10 13.4	2.620	3.552	5.9	22.0
2 1	9 27.58	+10 53.6	2.588	3.562	2.8	21.8
2 11	9 20.10	+11 38.1	2.588	3.572	1.3	21.7
2 21	9 12.82	+12 23.3	2.618	3.582	4.1	21.9
3 2	9 6.43	+13 5.7	2.678	3.591	7.1	22.1
3 12	9 1.45	+13 42.5	2.764	3.600	9.8	22.3

243094 Dirlewanger 2 7.8 235°.13 0°.6/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.98	+11 52.5	1.883	2.670	15.1	21.6
1 12	9 46.23	+12 8.3	1.783	2.658	11.9	21.4
1 22	9 38.90	+12 37.0	1.705	2.645	7.9	21.1
2 1	9 29.54	+13 15.4	1.654	2.631	3.5	20.8
2 11	9 19.12	+13 58.6	1.632	2.617	1.5	20.6
2 21	9 8.81	+14 40.9	1.639	2.602	6.1	20.9
3 2	8 59.81	+15 17.6	1.673	2.587	10.6	21.2
3 12	8 53.08	+15 45.0	1.732	2.571	14.5	21.4

93742 2000 VH_{56} 2 7.8 105°.98 0°.3/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.56	+12 39.4	2.154	2.937	13.6	20.6
1 12	9 44.48	+12 57.3	2.082	2.955	10.5	20.4
1 22	9 37.33	+13 25.0	2.033	2.972	6.8	20.2
2 1	9 28.73	+13 59.2	2.012	2.989	2.9	20.0
2 11	9 19.57	+14 35.5	2.021	3.006	1.2	19.9
2 21	9 10.78	+15 9.4	2.059	3.022	5.2	20.2
3 2	9 3.26	+15 37.7	2.126	3.038	8.8	20.4
3 12	8 57.68	+15 57.9	2.219	3.053	11.9	20.7

39763 1997 FD_3 2 7.8 192.°61 1.°3/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.33	+17 27.3	2.177	2.975	13.0	19.4
1 12	9 43.74	+17 56.3	2.091	2.974	9.9	19.2
1 22	9 36.99	+18 32.5	2.028	2.973	6.4	19.0
2 1	9 28.65	+19 11.6	1.994	2.972	2.7	18.8
2 11	9 19.59	+19 48.4	1.988	2.971	2.2	18.7
2 21	9 10.78	+20 18.5	2.013	2.969	5.9	18.9
3 2	9 3.17	+20 38.9	2.065	2.968	9.5	19.2
3 12	8 57.51	+20 48.0	2.142	2.966	12.6	19.4

28343 1999 FG_9 2 7.8 182.°37 5.°5/ 1.7 18

1 2	9 50.63	+35 18.2	3.050	3.842	9.8	18.4
1 12	9 45.09	+36 17.2	2.977	3.842	7.9	18.3
1 22	9 37.66	+37 11.7	2.929	3.842	6.3	18.1
2 1	9 28.88	+37 56.2	2.910	3.842	5.5	18.1
2 11	9 19.50	+38 26.1	2.921	3.841	6.1	18.1
2 21	9 10.39	+38 38.7	2.960	3.840	7.7	18.2
3 2	9 2.34	+38 33.6	3.025	3.838	9.5	18.4
3 12	8 56.02	+38 12.5	3.114	3.836	11.3	18.5

293305 2007 DQ_{33} 2 7.8 253.°12 0.°5/ 8.2 17

1 2	9 46.67	+11 19.4	2.076	2.863	13.9	21.4
1 12	9 42.65	+11 47.6	1.977	2.852	10.8	21.1
1 22	9 36.42	+12 28.8	1.902	2.842	7.2	20.9
2 1	9 28.48	+13 19.8	1.854	2.831	3.1	20.6
2 11	9 19.69	+14 15.5	1.835	2.820	1.3	20.5
2 21	9 11.02	+15 10.5	1.845	2.809	5.6	20.7
3 2	9 3.47	+15 59.6	1.883	2.798	9.6	20.9
3 12	8 57.87	+16 39.1	1.946	2.786	13.1	21.1

96230 1993 TZ_{35} 2 7.8 71.°57 3.°3/ 9.9 18

1 2	9 48.31	+ 5 2.9	1.484	2.269	18.6	19.3
1 12	9 44.44	+ 5 10.6	1.412	2.280	14.8	19.1
1 22	9 37.79	+ 5 40.0	1.361	2.291	10.4	18.8
2 1	9 29.07	+ 6 29.1	1.333	2.302	5.8	18.6
2 11	9 19.45	+ 7 32.3	1.332	2.313	3.3	18.5
2 21	9 10.27	+ 8 42.0	1.358	2.325	6.7	18.7
3 2	9 2.79	+ 9 50.3	1.410	2.336	11.2	19.0
3 12	8 57.90	+10 50.6	1.485	2.348	15.2	19.3

398970 2013 EY_{35} 2 7.8 77.°65 1.°6/ 8.9 18

1 2	9 48.37	+ 7 46.4	1.452	2.248	18.4	20.8
1 12	9 44.56	+ 8 21.9	1.383	2.260	14.4	20.6
1 22	9 37.90	+ 9 18.5	1.334	2.273	9.7	20.3
2 1	9 29.12	+10 32.0	1.310	2.285	4.6	20.1
2 11	9 19.43	+11 54.5	1.312	2.297	2.0	19.9
2 21	9 10.20	+13 16.9	1.342	2.309	6.7	20.3
3 2	9 2.71	+14 31.0	1.399	2.322	11.5	20.6
3 12	8 57.89	+15 31.4	1.477	2.334	15.6	20.8

71923 2000 WB_{56} 2 7.8 24.°37 3.°9/ 5.4 18

1 2	9 49.01	+21 4.1	1.413	2.241	17.1	18.7
1 12	9 45.37	+22 2.5	1.345	2.245	13.1	18.5
1 22	9 38.60	+23 9.4	1.299	2.249	8.6	18.2
2 1	9 29.45	+24 16.0	1.277	2.253	4.6	18.0
2 11	9 19.27	+25 12.4	1.282	2.257	5.0	18.0
2 21	9 9.59	+25 51.3	1.313	2.263	9.2	18.3
3 2	9 1.85	+26 9.1	1.368	2.268	13.5	18.5
3 12	8 57.04	+26 6.2	1.444	2.274	17.3	18.8

197717 2004 PE_8 2 7.8 181.°50 0.°5/ 8.2 18

1 2	9 49.92	+10 22.9	1.821	2.607	15.6	20.8
1 12	9 45.37	+11 3.6	1.734	2.608	12.2	20.6
1 22	9 38.29	+12 0.4	1.669	2.609	8.1	20.4
2 1	9 29.28	+13 9.0	1.632	2.609	3.5	20.1
2 11	9 19.34	+14 22.9	1.623	2.608	1.5	19.9
2 21	9 9.63	+15 34.8	1.643	2.607	6.1	20.2
3 2	9 1.31	+16 38.4	1.691	2.605	10.5	20.5
3 12	8 55.28	+17 29.4	1.764	2.602	14.3	20.7

429870 2012 SC_{21} 2 7.8 261.°64 0.°7/ 7.3 17

1 2	9 48.65	+16 51.9	2.379	3.170	12.2	20.7
1 12	9 43.83	+16 58.5	2.282	3.161	9.4	20.5
1 22	9 37.00	+17 10.9	2.210	3.153	6.1	20.3
2 1	9 28.67	+17 26.0	2.166	3.144	2.5	20.0
2 11	9 19.64	+17 40.1	2.152	3.136	1.6	20.0
2 21	9 10.81	+17 50.1	2.168	3.127	5.3	20.2
3 2	9 3.06	+17 53.6	2.212	3.118	8.8	20.4
3 12	8 57.10	+17 49.3	2.282	3.109	11.8	20.6

359080 2008 YO_{144} 2 7.8 345.°27 0.°3/ 7.9 18

1 2	9 45.74	+12 14.7	1.278	2.101	18.9	20.7
1 12	9 43.13	+12 33.6	1.200	2.095	14.8	20.4
1 22	9 37.33	+13 10.4	1.141	2.089	9.8	20.1
2 1	9 29.01	+14 0.8	1.105	2.084	4.2	19.8
2 11	9 19.46	+14 57.2	1.094	2.080	1.8	19.6
2 21	9 10.23	+15 51.3	1.109	2.076	7.7	20.0
3 2	9 2.87	+16 35.6	1.147	2.074	13.1	20.2
3 12	8 58.50	+17 5.6	1.206	2.072	17.7	20.5

322714 2000 KW_{42} 2 7.8 180.°96 4.°7/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.89	+27 27.6	2.303	3.105	12.2	21.5
1 12	9 46.51	+28 30.6	2.224	3.107	9.5	21.3
1 22	9 38.83	+29 34.3	2.171	3.107	6.7	21.1
2 1	9 29.45	+30 31.7	2.146	3.107	4.8	21.0
2 11	9 19.29	+31 16.5	2.151	3.107	5.4	21.1
2 21	9 9.43	+31 44.3	2.185	3.106	7.9	21.2
3 2	9 0.87	+31 53.5	2.245	3.104	10.8	21.4
3 12	8 54.41	+31 45.1	2.329	3.102	13.3	21.6

304826 2007 RM_{19} 2 7.8 164.°50 0.°1/ 7.9 18

1 2	9 51.05	+12 16.7	2.019	2.802	14.4	22.2
1 12	9 45.92	+12 47.2	1.934	2.808	11.1	22.0
1 22	9 38.48	+13 29.6	1.873	2.813	7.3	21.7
2 1	9 29.31	+14 20.2	1.840	2.818	3.1	21.5
2 11	9 19.36	+15 13.3	1.836	2.821	1.4	21.4
2 21	9 9.69	+16 3.5	1.862	2.824	5.7	21.7
3 2	9 1.34	+16 46.1	1.917	2.827	9.7	21.9
3 12	8 55.10	+17 18.2	1.996	2.828	13.1	22.1

417135 2005 VE_{50} 2 7.8 60.°89 3.°5/10.1 18

1 2	9 48.11	+ 5 26.2	1.773	2.547	16.4	21.4
1 12	9 43.85	+ 5 11.6	1.697	2.557	13.2	21.2
1 22	9 37.19	+ 5 13.6	1.641	2.567	9.4	20.9
2 1	9 28.79	+ 5 31.4	1.611	2.577	5.5	20.7
2 11	9 19.63	+ 6 1.6	1.608	2.587	3.5	20.6
2 21	9 10.84	+ 6 39.7	1.633	2.598	6.1	20.8
3 2	9 3.47	+ 7 20.1	1.686	2.608	9.9	21.1
3 12	8 58.32	+ 7 57.9	1.762	2.619	13.4	21.3

112584 2002 PY_{55} 2 7.8 129.°93 1.°6/ 8.9 18

1 2	9 49.05	+10 13.6	2.302	3.074	13.1	19.9
1 12	9 44.05	+10 3.1	2.215	3.080	10.3	19.7
1 22	9 37.08	+10 2.4	2.152	3.085	7.0	19.5
2 1	9 28.69	+10 9.7	2.117	3.090	3.5	19.3
2 11	9 19.68	+10 22.3	2.111	3.095	1.8	19.2
2 21	9 10.94	+10 37.3	2.136	3.100	4.9	19.4
3 2	9 3.32	+10 51.5	2.189	3.104	8.4	19.6
3 12	8 57.51	+11 2.4	2.268	3.109	11.4	19.8

287304 2002 TL_{217} 2 7.8 106.°58 1.°7/ 6.8 18

1 2	9 54.49	+16 50.4	1.488	2.297	17.4	21.6
1 12	9 49.21	+17 25.6	1.424	2.313	13.3	21.4
1 22	9 40.88	+18 11.4	1.381	2.328	8.6	21.1
2 1	9 30.33	+19 1.2	1.364	2.343	3.6	20.9
2 11	9 18.92	+19 46.9	1.375	2.358	2.8	20.8
2 21	9 8.14	+20 22.2	1.413	2.372	7.6	21.2
3 2	8 59.34	+20 43.3	1.478	2.386	12.1	21.5
3 12	8 53.43	+20 49.4	1.564	2.399	16.0	21.7

199944 2007 GM_{73} 2 7.8 244.°46 2.°1/ 6.3 18

1 2	9 49.57	+16 17.9	1.569	2.381	16.5	20.6
1 12	9 45.68	+17 17.7	1.482	2.373	12.7	20.4
1 22	9 38.83	+18 32.0	1.417	2.365	8.3	20.1
2 1	9 29.62	+19 53.8	1.377	2.356	3.6	19.8
2 11	9 19.19	+21 13.6	1.366	2.347	3.3	19.8
2 21	9 8.95	+22 22.6	1.382	2.338	8.1	20.0
3 2	9 0.32	+23 14.4	1.424	2.328	12.8	20.3
3 12	8 54.41	+23 46.4	1.487	2.319	16.8	20.5

21009 Agilkia 2 7.8 124.°91 0.°5/ 8.2 18

1 2	9 50.90	+11 9.6	1.913	2.696	15.0	19.1
1 12	9 45.82	+11 40.2	1.839	2.712	11.6	18.9
1 22	9 38.38	+12 23.9	1.788	2.727	7.7	18.7
2 1	9 29.25	+13 16.8	1.764	2.741	3.3	18.4
2 11	9 19.42	+14 13.1	1.769	2.755	1.4	18.3
2 21	9 9.98	+15 6.8	1.804	2.768	5.7	18.6
3 2	9 1.96	+15 53.2	1.868	2.780	9.7	18.9
3 12	8 56.13	+16 29.1	1.956	2.792	13.2	19.2

322013 2010 UC_{95} 2 7.8 103.°40 0.°9/ 7.2 18

1 2	9 52.97	+16 33.2	1.946	2.739	14.5	21.0
1 12	9 47.30	+16 50.7	1.879	2.759	11.1	20.9
1 22	9 39.26	+17 15.7	1.834	2.778	7.1	20.7
2 1	9 29.58	+17 43.7	1.817	2.796	2.9	20.4
2 11	9 19.29	+18 9.7	1.830	2.814	1.9	20.4
2 21	9 9.51	+18 29.5	1.872	2.832	6.0	20.7
3 2	9 1.24	+18 40.5	1.943	2.849	9.8	21.0
3 12	8 55.22	+18 41.7	2.037	2.865	13.1	21.2

492648 2014 OY_{366} 2 7.8 198.°84 0.°4/ 7.5 18

1 2	9 50.75	+13 54.4	2.023	2.812	14.2	22.8
1 12	9 45.81	+14 28.7	1.931	2.808	11.0	22.6
1 22	9 38.50	+15 14.3	1.863	2.804	7.2	22.3
2 1	9 29.36	+16 6.9	1.821	2.800	2.9	22.0
2 11	9 19.34	+17 0.8	1.810	2.795	1.6	21.9
2 21	9 9.52	+17 50.2	1.828	2.789	6.0	22.2
3 2	9 0.97	+18 30.6	1.875	2.782	10.0	22.4
3 12	8 54.54	+18 59.4	1.946	2.775	13.6	22.6

15531 2000 AV_{99} 2 7.8 115°.88 2°.6/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.38	+17 47.2	1.517	2.328	17.0	18.9
1 12	9 48.39	+18 47.9	1.452	2.343	13.0	18.7
1 22	9 40.39	+19 59.5	1.410	2.357	8.4	18.5
2 1	9 30.16	+21 13.8	1.393	2.371	3.8	18.2
2 11	9 19.01	+22 21.6	1.404	2.384	3.7	18.3
2 21	9 8.43	+23 15.0	1.444	2.397	8.1	18.6
3 2	8 59.76	+23 50.0	1.509	2.409	12.5	18.8
3 12	8 53.93	+24 6.0	1.596	2.421	16.2	19.1

55172 2001 QY_{257} 2 7.8 89°.80 4°.2/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.71	− 0 4.1	1.873	2.624	16.5	18.4
1 12	9 41.93	+ 0 18.8	1.793	2.635	13.4	18.3
1 22	9 35.92	+ 1 4.5	1.734	2.646	9.9	18.1
2 1	9 28.27	+ 2 11.7	1.700	2.657	6.3	17.9
2 11	9 19.89	+ 3 35.7	1.693	2.667	4.2	17.8
2 21	9 11.80	+ 5 9.4	1.715	2.678	6.0	17.9
3 2	9 4.99	+ 6 44.8	1.766	2.689	9.5	18.1
3 12	9 0.23	+ 8 14.5	1.841	2.699	12.9	18.3

453853 2011 UW_{44} 2 7.8 40°.02 3°.9/ 5.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.02	+22 5.6	1.303	2.133	18.2	21.1
1 12	9 47.78	+22 43.0	1.244	2.144	13.9	20.8
1 22	9 40.16	+23 26.1	1.205	2.155	9.2	20.6
2 1	9 30.09	+24 6.5	1.191	2.167	4.8	20.4
2 11	9 19.07	+24 35.3	1.202	2.179	4.9	20.4
2 21	9 8.80	+24 46.8	1.239	2.192	9.2	20.7
3 2	9 0.77	+24 39.3	1.300	2.205	13.7	21.0
3 12	8 55.92	+24 14.4	1.382	2.219	17.6	21.3

309277 2007 RX_{138} 2 7.8 73°.87 0°.0/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.64	+13 2.5	1.514	2.316	17.5	21.2
1 12	9 47.54	+13 23.5	1.457	2.340	13.5	21.0
1 22	9 39.64	+13 57.7	1.421	2.365	8.7	20.8
2 1	9 29.78	+14 40.1	1.411	2.389	3.6	20.6
2 11	9 19.24	+15 23.9	1.428	2.413	1.6	20.5
2 21	9 9.38	+16 3.1	1.473	2.437	6.6	20.9
3 2	9 1.40	+16 33.1	1.545	2.461	11.1	21.2
3 12	8 56.10	+16 51.6	1.639	2.484	14.9	21.5

23873 1998 RL_{76} 2 7.8 139°.34 1°.0/ 6.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.32	+16 6.5	2.277	3.071	12.6	18.7
1 12	9 42.84	+16 42.8	2.195	3.077	9.6	18.5
1 22	9 36.36	+17 27.2	2.138	3.082	6.2	18.3
2 1	9 28.42	+18 15.4	2.109	3.087	2.5	18.0
2 11	9 19.84	+19 2.3	2.109	3.092	1.9	18.0
2 21	9 11.52	+19 43.2	2.140	3.097	5.5	18.3
3 2	9 4.33	+20 14.9	2.198	3.101	9.0	18.5
3 12	8 58.97	+20 35.5	2.282	3.106	12.0	18.7

109994 2001 SA_{61} 2 7.8 136°.85 1°.2/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.32	+16 44.1	2.181	2.973	13.1	21.2
1 12	9 45.17	+17 18.9	2.104	2.984	10.0	21.0
1 22	9 37.87	+18 1.2	2.052	2.995	6.5	20.8
2 1	9 29.04	+18 46.6	2.027	3.006	2.7	20.6
2 11	9 19.56	+19 29.6	2.033	3.016	2.1	20.6
2 21	9 10.42	+20 5.7	2.069	3.025	5.8	20.8
3 2	9 2.55	+20 31.7	2.133	3.034	9.3	21.1
3 12	8 56.66	+20 46.4	2.222	3.042	12.4	21.3

229694 2007 DE_{97} 2 7.8 108°.58 1°.0/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.28	+16 49.3	1.969	2.767	14.1	20.9
1 12	9 45.36	+17 7.5	1.892	2.775	10.8	20.7
1 22	9 38.11	+17 33.2	1.837	2.782	7.0	20.5
2 1	9 29.16	+18 2.2	1.810	2.789	2.9	20.2
2 11	9 19.50	+18 29.4	1.812	2.795	2.0	20.2
2 21	9 10.22	+18 50.5	1.843	2.802	6.0	20.4
3 2	9 2.33	+19 2.7	1.901	2.808	9.9	20.7
3 12	8 56.61	+19 4.7	1.984	2.815	13.2	20.9

296602 2009 RL_{60} 2 7.8 139°.86 0°.0/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.48	+14 50.5	2.045	2.833	14.0	21.0
1 12	9 46.19	+14 54.4	1.962	2.839	10.8	20.8
1 22	9 38.60	+15 6.3	1.904	2.845	7.1	20.6
2 1	9 29.36	+15 23.0	1.872	2.851	2.9	20.3
2 11	9 19.41	+15 40.4	1.871	2.856	1.4	20.2
2 21	9 9.81	+15 54.9	1.899	2.861	5.6	20.5
3 2	9 1.57	+16 3.5	1.955	2.865	9.5	20.8
3 12	8 55.43	+16 4.6	2.035	2.870	12.8	21.0

197310 2003 WG_{141} 2 7.8 79°.67 18°.5/24.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 0.95	+45 16.2	1.023	1.853	22.1	19.2
1 12	9 57.67	+49 8.0	1.003	1.867	19.7	19.1
1 22	9 48.34	+52 34.7	1.002	1.881	18.6	19.0
2 1	9 33.93	+55 10.9	1.022	1.895	18.9	19.1
2 11	9 17.26	+56 40.2	1.061	1.909	20.4	19.2
2 21	9 1.98	+57 0.7	1.116	1.923	22.5	19.4
3 2	8 51.17	+56 22.6	1.185	1.936	24.7	19.6
3 12	8 46.26	+55 1.6	1.266	1.950	26.5	19.9

494753 2005 YJ_{9} 2 7.8 164°.27 1°.5/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.86	+ 8 20.0	2.669	3.426	11.9	22.8
1 12	9 43.66	+ 8 31.2	2.579	3.433	9.4	22.7
1 22	9 36.73	+ 8 52.9	2.512	3.440	6.4	22.5
2 1	9 28.55	+ 9 23.3	2.474	3.445	3.2	22.3
2 11	9 19.81	+ 9 59.3	2.467	3.450	1.6	22.2
2 21	9 11.27	+10 37.3	2.491	3.454	4.4	22.4
3 2	9 3.67	+11 14.0	2.545	3.457	7.5	22.6
3 12	8 57.63	+11 46.2	2.626	3.460	10.3	22.8

292334 2006 SD_{186} 2 7.8 192°.91 7°.5/29.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.31	+45 55.2	3.247	4.011	9.8	22.0
1 12	9 48.88	+47 3.2	3.184	4.009	8.6	21.9
1 22	9 40.25	+48 1.5	3.145	4.006	7.7	21.9
2 1	9 30.03	+48 44.0	3.134	4.002	7.5	21.8
2 11	9 19.12	+49 5.9	3.149	3.998	8.1	21.9
2 21	9 8.54	+49 5.6	3.191	3.994	9.3	21.9
3 2	8 59.27	+48 43.6	3.256	3.989	10.6	22.0
3 12	8 52.03	+48 2.9	3.342	3.984	11.9	22.1

223607 2004 HT_{18} 2 7.8 257°.63 1°.9/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.20	+ 8 9.4	2.060	2.834	14.4	21.6
1 12	9 43.92	+ 8 18.3	1.952	2.816	11.5	21.4
1 22	9 37.35	+ 8 41.5	1.866	2.797	8.0	21.1
2 1	9 28.95	+ 9 17.3	1.806	2.779	4.1	20.9
2 11	9 19.57	+10 2.1	1.776	2.759	2.1	20.7
2 21	9 10.22	+10 51.0	1.774	2.739	5.6	20.9
3 2	9 1.96	+11 38.7	1.801	2.719	9.7	21.1
3 12	8 55.68	+12 20.8	1.853	2.699	13.4	21.3

166774 2002 VU_{18} 2 7.8 131°.86 3°.7/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.80	+25 4.7	2.343	3.149	11.9	20.2
1 12	9 44.01	+25 51.2	2.267	3.153	9.2	20.0
1 22	9 37.13	+26 39.2	2.216	3.157	6.2	19.8
2 1	9 28.75	+27 23.2	2.193	3.162	3.9	19.7
2 11	9 19.72	+27 57.7	2.199	3.166	4.3	19.7
2 21	9 11.00	+28 18.8	2.235	3.170	7.0	19.9
3 2	9 3.51	+28 25.0	2.298	3.173	9.9	20.1
3 12	8 57.93	+28 16.6	2.384	3.177	12.5	20.2

29605 1998 QF_{54} 2 7.8 110°.70 4°.0/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.48	+ 3 26.4	1.565	2.335	18.4	19.3
1 12	9 45.99	+ 3 25.0	1.491	2.348	14.8	19.0
1 22	9 38.76	+ 3 45.3	1.437	2.360	10.7	18.8
2 1	9 29.50	+ 4 25.9	1.408	2.372	6.4	18.6
2 11	9 19.36	+ 5 22.6	1.405	2.383	4.0	18.5
2 21	9 9.64	+ 6 28.3	1.430	2.394	6.8	18.7
3 2	9 1.58	+ 7 35.5	1.481	2.405	10.9	18.9
3 12	8 56.06	+ 8 37.3	1.557	2.415	14.8	19.2

309788 2009 AE_{15} 2 7.8 312°.33 0°.1/ 7.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.08	+13 26.6	1.402	2.218	17.9	21.2
1 12	9 44.84	+13 35.3	1.312	2.203	14.0	20.9
1 22	9 38.46	+13 58.5	1.242	2.189	9.3	20.6
2 1	9 29.54	+14 32.5	1.196	2.175	4.0	20.2
2 11	9 19.29	+15 11.1	1.176	2.161	1.8	20.0
2 21	9 9.22	+15 47.4	1.182	2.148	7.5	20.4
3 2	9 0.86	+16 15.4	1.213	2.136	12.9	20.6
3 12	8 55.41	+16 31.5	1.264	2.124	17.5	20.9

506237 2016 ND_{17} 2 7.8 244°.07 2°.9/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.26	+ 4 24.1	2.893	3.634	11.4	20.9
1 12	9 41.68	+ 4 8.8	2.781	3.620	9.3	20.7
1 22	9 35.48	+ 4 4.0	2.693	3.606	6.7	20.5
2 1	9 28.06	+ 4 9.7	2.632	3.591	4.2	20.4
2 11	9 20.03	+ 4 24.3	2.602	3.576	2.9	20.2
2 21	9 12.06	+ 4 45.4	2.602	3.561	4.5	20.3
3 2	9 4.85	+ 5 10.4	2.632	3.545	7.2	20.5
3 12	8 58.99	+ 5 35.9	2.688	3.529	9.9	20.6

200670 2001 TN_{124} 2 7.8 189°.00 2°.5/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.78	+ 7 31.3	1.903	2.671	15.7	21.0
1 12	9 47.44	+ 7 24.0	1.811	2.670	12.5	20.8
1 22	9 39.61	+ 7 31.1	1.741	2.669	8.7	20.5
2 1	9 29.86	+ 7 51.0	1.697	2.667	4.7	20.3
2 11	9 19.19	+ 8 20.6	1.683	2.664	2.7	20.1
2 21	9 8.74	+ 8 55.2	1.697	2.661	6.0	20.3
3 2	8 59.67	+ 9 30.1	1.740	2.657	10.1	20.6
3 12	8 52.85	+10 1.1	1.807	2.652	13.7	20.8

25189 Glockner 2 7.8 129°.32 0°.7/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.37	+11 16.0	1.996	2.778	14.5	19.5
1 12	9 45.35	+11 34.0	1.918	2.790	11.3	19.3
1 22	9 38.07	+12 3.9	1.864	2.801	7.5	19.1
2 1	9 29.16	+12 42.5	1.836	2.812	3.3	18.9
2 11	9 19.55	+13 25.0	1.838	2.823	1.4	18.8
2 21	9 10.30	+14 6.3	1.869	2.833	5.5	19.1
3 2	9 2.39	+14 42.2	1.929	2.843	9.4	19.3
3 12	8 56.57	+15 9.8	2.013	2.852	12.8	19.5

58959 1998 QD_{98} 2 7.8 145°.93 0°.1/ 7.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.95	+12 16.0	1.800	2.588	15.6	19.4
1 12	9 46.87	+12 59.5	1.723	2.599	12.1	19.2
1 22	9 39.23	+13 57.0	1.668	2.610	7.9	19.0
2 1	9 29.68	+15 3.5	1.641	2.619	3.2	18.7
2 11	9 19.30	+16 12.0	1.643	2.628	1.6	18.6
2 21	9 9.28	+17 15.5	1.674	2.636	6.3	18.9
3 2	9 0.77	+18 8.5	1.733	2.643	10.5	19.2
3 12	8 54.63	+18 48.1	1.816	2.649	14.2	19.4

318261 2004 SF_{10} 2 7.8 220°.35 4°.4/ 3.9 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.14	+28 28.0	2.606	3.401	11.2	21.4
1 12	9 47.31	+29 16.2	2.512	3.389	8.7	21.2
1 22	9 39.32	+30 4.1	2.444	3.377	6.2	21.1
2 1	9 29.69	+30 45.8	2.405	3.364	4.5	20.9
2 11	9 19.29	+31 15.7	2.396	3.351	5.0	20.9
2 21	9 9.06	+31 30.3	2.416	3.336	7.3	21.1
3 2	8 59.99	+31 28.3	2.465	3.321	10.0	21.2
3 12	8 52.83	+31 10.5	2.538	3.305	12.5	21.4

437627 2014 BX_{28} 2 7.8 213°.51 2°.2/ 9.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.30	+ 6 45.0	2.875	3.627	11.3	21.9
1 12	9 41.67	+ 6 37.7	2.772	3.621	9.0	21.7
1 22	9 35.44	+ 6 40.4	2.693	3.615	6.3	21.5
2 1	9 28.04	+ 6 52.1	2.642	3.608	3.6	21.3
2 11	9 20.07	+ 7 10.7	2.622	3.601	2.2	21.2
2 21	9 12.23	+ 7 33.8	2.632	3.594	4.3	21.4
3 2	9 5.18	+ 7 58.4	2.672	3.586	7.1	21.5
3 12	8 59.52	+ 8 21.7	2.739	3.578	9.7	21.7

377888 2006 DN_{56} 2 7.8 127°.29 2°.6/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.45	+21 23.1	2.250	3.052	12.5	21.4
1 12	9 44.51	+22 5.2	2.176	3.061	9.5	21.2
1 22	9 37.46	+22 51.4	2.126	3.070	6.2	21.1
2 1	9 28.89	+23 36.4	2.104	3.079	3.2	20.9
2 11	9 19.69	+24 14.8	2.112	3.087	3.4	20.9
2 21	9 10.83	+24 42.5	2.149	3.095	6.4	21.1
3 2	9 3.22	+24 57.1	2.214	3.103	9.6	21.3
3 12	8 57.56	+24 58.4	2.303	3.110	12.4	21.5

417048 2005 UJ_{156} 2 7.8 80°.87 3°.3/ 5.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.45	+19 49.4	1.874	2.683	14.3	20.8
1 12	9 44.82	+21 15.3	1.817	2.707	10.8	20.6
1 22	9 37.79	+22 48.3	1.785	2.731	7.0	20.5
2 1	9 29.04	+24 20.3	1.781	2.755	3.8	20.3
2 11	9 19.63	+25 42.8	1.806	2.779	4.2	20.4
2 21	9 10.69	+26 49.2	1.860	2.802	7.5	20.6
3 2	9 3.27	+27 36.1	1.941	2.825	11.0	20.9
3 12	8 58.10	+28 3.3	2.044	2.847	13.9	21.1

170806 2004 DX_{36} 2 7.8 26°.78 0°.6/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.33	+10 45.0	2.118	2.907	13.6	19.9
1 12	9 40.71	+11 15.6	2.034	2.910	10.6	19.7
1 22	9 35.06	+11 58.9	1.973	2.913	7.0	19.5
2 1	9 27.94	+12 51.6	1.939	2.916	3.1	19.3
2 11	9 20.13	+13 48.7	1.934	2.920	1.3	19.1
2 21	9 12.56	+14 44.9	1.959	2.923	5.2	19.4
3 2	9 6.12	+15 35.4	2.011	2.927	8.9	19.7
3 12	9 1.49	+16 16.6	2.088	2.931	12.2	19.9

166973 2003 OV_{5} 2 7.8 170°.50 1°.6/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.80	+17 39.2	2.074	2.866	13.7	20.9
1 12	9 47.27	+18 13.2	1.990	2.871	10.5	20.7
1 22	9 39.38	+18 54.8	1.931	2.874	6.8	20.4
2 1	9 29.74	+19 38.8	1.899	2.877	2.9	20.2
2 11	9 19.31	+20 19.6	1.898	2.880	2.4	20.2
2 21	9 9.18	+20 52.2	1.926	2.881	6.3	20.4
3 2	9 0.42	+21 13.5	1.983	2.882	10.0	20.6
3 12	8 53.83	+21 22.5	2.064	2.882	13.3	20.8

51718 2001 KL_{34} 2 7.8 119°.40 3°.8/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.59	+23 33.9	2.137	2.938	13.1	19.6
1 12	9 46.99	+24 39.5	2.074	2.958	10.0	19.4
1 22	9 39.10	+25 48.0	2.036	2.977	6.7	19.2
2 1	9 29.58	+26 52.5	2.027	2.996	4.0	19.1
2 11	9 19.42	+27 46.1	2.047	3.014	4.5	19.1
2 21	9 9.71	+28 24.3	2.097	3.032	7.4	19.4
3 2	9 1.43	+28 45.1	2.175	3.048	10.4	19.6
3 12	8 55.32	+28 49.2	2.276	3.064	13.1	19.8

373356 2012 KS_{17} 2 7.8 172°.32 0°.7/ 8.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.85	+10 37.6	2.166	2.948	13.6	21.6
1 12	9 42.61	+11 4.2	2.078	2.949	10.6	21.4
1 22	9 36.30	+11 43.2	2.013	2.951	7.0	21.2
2 1	9 28.46	+12 31.6	1.975	2.951	3.1	20.9
2 11	9 19.91	+13 24.5	1.967	2.952	1.3	20.8
2 21	9 11.57	+14 16.9	1.988	2.953	5.2	21.1
3 2	9 4.36	+15 4.2	2.038	2.953	8.9	21.3
3 12	8 59.00	+15 42.8	2.113	2.953	12.2	21.5

4712 Iwaizumi 2 7.8 168°.99 1°.4/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.87	+19 31.3	2.778	3.566	10.7	17.1
1 12	9 43.67	+19 47.2	2.690	3.569	8.2	16.9
1 22	9 36.74	+20 6.6	2.628	3.571	5.3	16.7
2 1	9 28.58	+20 26.2	2.596	3.573	2.3	16.5
2 11	9 19.89	+20 42.5	2.594	3.575	2.0	16.5
2 21	9 11.45	+20 52.9	2.623	3.576	4.9	16.7
3 2	9 3.99	+20 55.4	2.682	3.578	7.8	16.9
3 12	8 58.09	+20 49.7	2.766	3.578	10.4	17.0

456869 2007 VR_{39} 2 7.8 135°.76 1°.2/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.46	+15 57.3	1.847	2.645	14.9	22.3
1 12	9 46.45	+16 34.6	1.772	2.655	11.5	22.1
1 22	9 38.93	+17 21.7	1.720	2.664	7.4	21.8
2 1	9 29.57	+18 13.4	1.694	2.673	3.0	21.6
2 11	9 19.42	+19 3.2	1.698	2.681	2.2	21.5
2 21	9 9.66	+19 45.3	1.731	2.689	6.5	21.8
3 2	9 1.41	+20 15.9	1.792	2.697	10.5	22.1
3 12	8 55.48	+20 33.3	1.876	2.704	14.0	22.3

377243 2004 BU_{80} 2 7.8 62°.92 0°.8/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.40	+13 47.5	2.055	2.852	13.6	20.6
1 12	9 41.54	+14 41.0	1.984	2.867	10.4	20.4
1 22	9 35.59	+15 45.8	1.936	2.881	6.7	20.2
2 1	9 28.15	+16 56.7	1.917	2.896	2.7	20.0
2 11	9 20.09	+18 7.5	1.926	2.910	1.8	20.0
2 21	9 12.35	+19 11.9	1.965	2.925	5.7	20.3
3 2	9 5.83	+20 5.6	2.032	2.940	9.3	20.5
3 12	9 1.23	+20 45.8	2.124	2.955	12.5	20.7

305750 2009 DX_{6} 2 7.8 349°.66 0°.4/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.63	+14 59.4	1.211	2.043	19.2	20.3
1 12	9 44.02	+15 6.5	1.135	2.035	15.0	20.1
1 22	9 38.04	+15 27.5	1.079	2.029	9.8	19.7
2 1	9 29.41	+15 57.8	1.045	2.024	4.1	19.4
2 11	9 19.50	+16 30.3	1.035	2.021	2.1	19.2
2 21	9 10.00	+16 57.7	1.051	2.018	8.1	19.6
3 2	9 2.51	+17 14.7	1.089	2.016	13.6	19.9
3 12	8 58.19	+17 18.2	1.148	2.016	18.3	20.2

492865 2014 QF_{369} 2 7.8 229°.99 2°.4/ 6.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.25	+19 13.7	1.872	2.675	14.6	22.2
1 12	9 47.33	+19 54.8	1.779	2.664	11.3	22.0
1 22	9 39.72	+20 44.1	1.708	2.653	7.4	21.7
2 1	9 30.01	+21 35.7	1.665	2.642	3.4	21.4
2 11	9 19.22	+22 22.4	1.650	2.630	3.3	21.4
2 21	9 8.62	+22 58.4	1.665	2.617	7.3	21.6
3 2	8 59.44	+23 19.7	1.707	2.604	11.5	21.8
3 12	8 52.67	+23 25.6	1.771	2.590	15.1	22.0

418270 2008 EO_{47} 2 7.8 260°.32 0°.0/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.17	+12 19.2	1.861	2.657	14.9	21.6
1 12	9 43.31	+12 53.4	1.769	2.650	11.6	21.4
1 22	9 37.02	+13 41.4	1.700	2.643	7.6	21.1
2 1	9 28.86	+14 39.3	1.657	2.636	3.2	20.8
2 11	9 19.77	+15 40.9	1.643	2.629	1.5	20.7
2 21	9 10.85	+16 39.8	1.658	2.621	6.1	21.0
3 2	9 3.23	+17 30.4	1.700	2.614	10.4	21.2
3 12	8 57.78	+18 9.1	1.765	2.607	14.1	21.4

27504 2000 GK_{141} 2 7.8 178°.84 3°.8/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.58	+25 13.9	2.517	3.321	11.2	18.8
1 12	9 43.04	+26 17.3	2.437	3.322	8.6	18.6
1 22	9 36.53	+27 22.9	2.383	3.323	5.9	18.5
2 1	9 28.57	+28 25.0	2.357	3.323	4.0	18.3
2 11	9 19.93	+29 17.6	2.361	3.323	4.5	18.4
2 21	9 11.51	+29 56.6	2.395	3.323	6.9	18.5
3 2	9 4.17	+30 19.6	2.456	3.322	9.7	18.7
3 12	8 58.61	+30 26.8	2.541	3.321	12.1	18.9

188075 2001 XN_{28} 2 7.8 49°.11 2°.5/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.80	+16 13.6	1.419	2.237	17.6	19.2
1 12	9 45.52	+17 35.9	1.378	2.273	13.2	19.0
1 22	9 38.39	+19 9.8	1.359	2.308	8.4	18.9
2 1	9 29.32	+20 45.7	1.365	2.344	3.7	18.7
2 11	9 19.65	+22 13.0	1.400	2.380	3.6	18.8
2 21	9 10.75	+23 23.7	1.461	2.416	7.9	19.1
3 2	9 3.80	+24 13.7	1.548	2.452	12.0	19.4
3 12	8 59.55	+24 42.5	1.657	2.487	15.5	19.7

120285 Brentbos 2 7.8 116°.75 7°.9/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.08	+34 39.3	1.949	2.758	13.9	19.5
1 12	9 48.75	+36 12.4	1.894	2.769	11.2	19.4
1 22	9 40.56	+37 40.2	1.862	2.781	8.9	19.3
2 1	9 30.29	+38 52.8	1.857	2.791	7.9	19.2
2 11	9 19.15	+39 41.9	1.880	2.802	8.7	19.3
2 21	9 8.55	+40 3.5	1.928	2.812	10.9	19.5
3 2	8 59.74	+39 57.8	2.001	2.822	13.4	19.6
3 12	8 53.61	+39 28.9	2.094	2.832	15.7	19.8

402383 2005 YY_{68} 2 7.8 306.°50 1.°2/ 7.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.91	+15 26.9	1.330	2.154	18.2	21.3
1 12	9 45.06	+15 51.8	1.235	2.132	14.3	21.0
1 22	9 38.86	+16 31.8	1.160	2.110	9.4	20.7
2 1	9 29.85	+17 21.9	1.109	2.089	3.9	20.3
2 11	9 19.26	+18 14.0	1.083	2.068	2.6	20.1
2 21	9 8.70	+18 59.4	1.083	2.047	8.5	20.4
3 2	8 59.90	+19 31.4	1.106	2.027	14.1	20.7
3 12	8 54.22	+19 46.7	1.150	2.007	19.0	20.9

452525 2004 TT_{71} 2 7.8 95.°11 0.°2/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.97	+12 28.7	1.616	2.411	16.9	21.8
1 12	9 47.74	+12 53.7	1.553	2.432	13.0	21.5
1 22	9 39.80	+13 32.1	1.512	2.453	8.5	21.3
2 1	9 29.93	+14 19.1	1.496	2.474	3.5	21.1
2 11	9 19.34	+15 8.2	1.509	2.494	1.6	21.0
2 21	9 9.33	+15 53.0	1.550	2.514	6.4	21.3
3 2	9 1.09	+16 28.9	1.619	2.533	10.8	21.6
3 12	8 55.41	+16 53.2	1.711	2.552	14.5	21.9

369893 2012 TW_{72} 2 7.8 251.°98 0.°6/ 7.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.51	+15 46.6	2.569	3.354	11.6	22.2
1 12	9 43.74	+16 8.2	2.459	3.334	9.0	22.0
1 22	9 37.02	+16 37.1	2.372	3.314	5.9	21.7
2 1	9 28.81	+17 10.1	2.315	3.293	2.4	21.5
2 11	9 19.81	+17 43.2	2.288	3.272	1.5	21.4
2 21	9 10.87	+18 12.5	2.292	3.250	5.1	21.6
3 2	9 2.84	+18 35.0	2.324	3.228	8.5	21.8
3 12	8 56.45	+18 48.8	2.383	3.205	11.6	21.9

341682 2007 VT_{105} 2 7.8 24.°71 5.°7/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.12	+29 35.5	2.044	2.861	13.0	20.4
1 12	9 43.92	+30 41.8	1.977	2.865	10.2	20.2
1 22	9 37.30	+31 47.0	1.934	2.870	7.5	20.1
2 1	9 28.92	+32 43.5	1.918	2.874	5.8	20.0
2 11	9 19.79	+33 24.3	1.930	2.880	6.5	20.0
2 21	9 11.06	+33 45.2	1.969	2.885	9.0	20.2
3 2	9 3.77	+33 45.2	2.033	2.891	11.8	20.4
3 12	8 58.73	+33 25.9	2.119	2.897	14.3	20.6

428450 2007 TM_{390} 2 7.8 182.°86 2.°2/ 5.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.80	+20 54.6	2.622	3.418	11.1	21.8
1 12	9 43.05	+21 33.9	2.536	3.419	8.4	21.6
1 22	9 36.46	+22 17.2	2.475	3.419	5.5	21.4
2 1	9 28.53	+23 0.2	2.443	3.418	2.8	21.2
2 11	9 19.99	+23 38.2	2.442	3.418	2.9	21.2
2 21	9 11.67	+24 7.6	2.470	3.417	5.6	21.4
3 2	9 4.35	+24 25.9	2.527	3.415	8.6	21.6
3 12	8 58.68	+24 32.5	2.609	3.413	11.2	21.7

338450 2003 EG_{55} 2 7.8 199.°16 4.°3/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.66	+28 12.2	2.555	3.359	11.1	21.8
1 12	9 43.85	+29 1.3	2.475	3.357	8.6	21.6
1 22	9 37.05	+29 50.0	2.420	3.356	6.1	21.4
2 1	9 28.78	+30 32.7	2.394	3.354	4.4	21.3
2 11	9 19.88	+31 4.2	2.397	3.353	5.0	21.3
2 21	9 11.24	+31 21.2	2.429	3.351	7.2	21.5
3 2	9 3.73	+31 22.2	2.488	3.349	9.8	21.6
3 12	8 58.04	+31 8.0	2.571	3.347	12.1	21.8

460455 2014 SP_{226} 2 7.8 192.°52 3.°0/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.81	+ 4 59.7	1.963	2.726	15.4	21.9
1 12	9 44.36	+ 5 4.5	1.870	2.725	12.4	21.7
1 22	9 37.60	+ 5 26.3	1.800	2.723	8.8	21.4
2 1	9 29.09	+ 6 3.7	1.755	2.721	5.0	21.2
2 11	9 19.72	+ 6 53.2	1.739	2.719	3.0	21.1
2 21	9 10.54	+ 7 49.5	1.752	2.716	5.8	21.2
3 2	9 2.59	+ 8 46.7	1.793	2.713	9.6	21.5
3 12	8 56.71	+ 9 39.6	1.859	2.709	13.2	21.7

87604 2000 RF_{40} 2 7.8 180.°90 1.°8/ 9.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.68	+ 8 51.2	2.304	3.070	13.3	20.6
1 12	9 44.63	+ 8 47.0	2.211	3.071	10.5	20.4
1 22	9 37.57	+ 8 54.0	2.142	3.071	7.2	20.2
2 1	9 29.01	+ 9 10.4	2.100	3.071	3.7	20.0
2 11	9 19.77	+ 9 33.4	2.088	3.071	2.0	19.9
2 21	9 10.74	+ 9 59.4	2.106	3.070	5.0	20.1
3 2	9 2.80	+10 25.0	2.154	3.069	8.5	20.3
3 12	8 56.67	+10 46.9	2.226	3.067	11.6	20.5

56630 2000 KP_2 2 7.8 128.°72 11.°3/20.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.38	−22 1.3	2.212	2.803	18.2	19.0
1 12	9 42.34	−22 40.0	2.128	2.812	16.6	18.9
1 22	9 36.19	−22 49.6	2.058	2.820	14.8	18.7
2 1	9 28.47	−22 25.7	2.007	2.829	13.1	18.6
2 11	9 20.03	−21 27.2	1.978	2.837	11.8	18.6
2 21	9 11.81	−19 56.7	1.974	2.844	11.3	18.5
3 2	9 4.75	−18 0.5	1.994	2.852	12.0	18.6
3 12	8 59.59	−15 48.3	2.039	2.859	13.4	18.7

136361 2004 DP_{23} 2 7.8 341.°71 4.°3/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 41.36	− 0 57.9	1.955	2.706	15.9	19.4
1 12	9 38.70	− 0 30.0	1.858	2.699	13.1	19.2
1 22	9 33.95	+ 0 21.8	1.782	2.692	9.8	18.9
2 1	9 27.59	+ 1 36.7	1.730	2.686	6.4	18.7
2 11	9 20.42	+ 3 10.6	1.706	2.680	4.3	18.6
2 21	9 13.39	+ 4 56.7	1.711	2.675	5.9	18.7
3 2	9 7.44	+ 6 46.3	1.744	2.670	9.4	18.9
3 12	9 3.37	+ 8 31.3	1.802	2.666	12.8	19.1

374555 2006 BE_{130} 2 7.9 120.°91 1.°6/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.09	+19 56.5	2.285	3.075	12.7	21.1
1 12	9 47.16	+20 6.1	2.208	3.088	9.7	20.9
1 22	9 39.13	+20 19.1	2.157	3.100	6.3	20.7
2 1	9 29.62	+20 31.6	2.134	3.111	2.8	20.5
2 11	9 19.54	+20 39.7	2.141	3.122	2.3	20.5
2 21	9 9.88	+20 40.6	2.179	3.133	5.7	20.7
3 2	9 1.54	+20 32.7	2.246	3.144	9.0	21.0
3 12	8 55.19	+20 16.1	2.337	3.154	12.0	21.2

134746 2000 BO_6 2 7.9 53.°41 3.°8/ 7.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 20.66	+28 16.5	0.828	1.655	26.2	18.7
1 12	10 11.18	+26 56.7	0.776	1.671	20.6	18.4
1 22	9 55.88	+25 24.3	0.741	1.688	13.8	18.1
2 1	9 36.60	+23 31.5	0.729	1.705	6.6	17.8
2 11	9 16.52	+21 17.9	0.741	1.723	4.7	17.7
2 21	8 58.92	+18 52.3	0.779	1.742	11.1	18.2
3 2	8 46.07	+16 27.5	0.841	1.761	17.4	18.6
3 12	8 38.77	+14 12.3	0.922	1.780	22.5	19.0

503515 2016 FN_7 2 7.9 183.°92 4.°3/ 4.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.74	+26 35.3	2.235	3.040	12.4	21.0
1 12	9 45.71	+27 26.8	2.156	3.041	9.6	20.8
1 22	9 38.39	+28 19.3	2.102	3.040	6.7	20.6
2 1	9 29.38	+29 6.3	2.075	3.040	4.5	20.5
2 11	9 19.63	+29 41.7	2.078	3.039	5.1	20.5
2 21	9 10.19	+30 1.4	2.110	3.039	7.7	20.7
3 2	9 2.06	+30 3.9	2.168	3.037	10.6	20.9
3 12	8 56.03	+29 50.2	2.250	3.036	13.3	21.0

462683 2009 UA_{97} 2 7.9 101.°29 1.°5/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.47	+17 39.5	2.038	2.838	13.7	21.6
1 12	9 44.71	+18 9.6	1.964	2.848	10.4	21.4
1 22	9 37.70	+18 46.9	1.913	2.858	6.7	21.2
2 1	9 29.08	+19 26.6	1.889	2.868	2.9	21.0
2 11	9 19.79	+20 3.2	1.895	2.878	2.3	20.9
2 21	9 10.87	+20 32.3	1.931	2.887	6.1	21.2
3 2	9 3.30	+20 50.8	1.993	2.897	9.7	21.4
3 12	8 57.81	+20 57.7	2.080	2.906	12.9	21.7

363453 2003 SK_{179} 2 7.9 70.°36 0.°0/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.43	+11 45.9	1.527	2.332	17.2	20.8
1 12	9 44.55	+12 31.4	1.460	2.345	13.3	20.5
1 22	9 37.91	+13 33.6	1.413	2.358	8.7	20.3
2 1	9 29.24	+14 46.6	1.392	2.371	3.6	20.0
2 11	9 19.71	+16 2.4	1.398	2.384	1.7	19.9
2 21	9 10.63	+17 12.6	1.432	2.396	6.8	20.3
3 2	9 3.25	+18 10.9	1.493	2.409	11.4	20.6
3 12	8 58.43	+18 53.6	1.575	2.422	15.3	20.9

155129 2005 TT_{123} 2 7.9 9.°78 8.°7/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.58	+33 47.0	1.466	2.294	16.6	19.6
1 12	9 48.37	+34 54.1	1.406	2.295	13.4	19.4
1 22	9 40.69	+35 55.5	1.368	2.298	10.4	19.2
2 1	9 30.44	+36 39.9	1.353	2.301	8.7	19.2
2 11	9 19.17	+36 57.8	1.363	2.305	9.6	19.2
2 21	9 8.64	+36 45.3	1.398	2.309	12.3	19.4
3 2	9 0.38	+36 3.8	1.456	2.315	15.5	19.6
3 12	8 55.37	+34 58.7	1.532	2.321	18.4	19.8

217978 2001 VQ_{73} 2 7.9 140.°83 1.°9/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.75	+ 8 10.6	2.089	2.861	14.3	20.9
1 12	9 44.09	+ 8 16.8	2.005	2.868	11.3	20.7
1 22	9 37.29	+ 8 36.4	1.944	2.874	7.8	20.5
2 1	9 28.92	+ 9 7.3	1.909	2.881	4.0	20.3
2 11	9 19.86	+ 9 45.7	1.903	2.886	2.0	20.1
2 21	9 11.07	+10 27.0	1.927	2.892	5.2	20.4
3 2	9 3.49	+11 6.7	1.979	2.897	9.0	20.6
3 12	8 57.86	+11 41.2	2.057	2.902	12.3	20.8

341593 2007 UH_{98} 2 7.9 349.°83 5.°8/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.28	− 1 56.3	2.100	2.835	15.4	20.4
1 12	9 40.74	− 2 27.4	2.007	2.832	12.9	20.2
1 22	9 35.18	− 2 40.1	1.935	2.829	10.1	20.0
2 1	9 28.08	− 2 33.2	1.887	2.827	7.4	19.9
2 11	9 20.25	− 2 7.6	1.866	2.825	5.8	19.8
2 21	9 12.57	− 1 26.7	1.873	2.824	6.8	19.8
3 2	9 5.97	− 0 35.2	1.906	2.822	9.4	20.0
3 12	9 1.17	+ 0 20.5	1.965	2.822	12.3	20.2

462059 2007 EN_{73} 2 7.9 185°.05 4°.5/ 4.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 54.52	+29 31.8	2.563	3.356	11.4	21.7
1 12	9 48.30	+30 11.0	2.481	3.357	8.9	21.5
1 22	9 39.92	+30 48.1	2.425	3.356	6.4	21.3
2 1	9 29.99	+31 17.6	2.397	3.355	4.6	21.2
2 11	9 19.39	+31 34.2	2.399	3.353	5.1	21.3
2 21	9 9.13	+31 35.2	2.432	3.351	7.3	21.4
3 2	9 0.14	+31 20.0	2.492	3.348	9.9	21.6
3 12	8 53.15	+30 50.3	2.576	3.345	12.3	21.7

367207 2007 CA_{59} 2 7.9 50°.09 5°.1/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.71	+ 3 20.6	1.754	2.515	17.1	20.2
1 12	9 45.96	+ 2 29.7	1.673	2.521	13.9	20.0
1 22	9 38.69	+ 1 54.7	1.614	2.528	10.4	19.8
2 1	9 29.55	+ 1 37.0	1.579	2.534	6.9	19.6
2 11	9 19.58	+ 1 35.7	1.571	2.541	5.1	19.5
2 21	9 9.95	+ 1 47.8	1.591	2.548	7.0	19.7
3 2	9 1.79	+ 2 8.9	1.637	2.555	10.5	19.9
3 12	8 55.94	+ 2 33.6	1.708	2.563	13.9	20.1

174891 2004 BJ_{92} 2 7.9 299°.30 3°.7/10.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.62	+ 4 36.2	2.165	2.924	14.3	20.1
1 12	9 42.57	+ 4 9.6	2.059	2.909	11.6	19.9
1 22	9 36.41	+ 3 56.4	1.976	2.894	8.5	19.7
2 1	9 28.62	+ 3 56.6	1.918	2.879	5.3	19.4
2 11	9 19.99	+ 4 9.0	1.888	2.863	3.7	19.3
2 21	9 11.43	+ 4 30.5	1.888	2.849	5.8	19.4
3 2	9 3.90	+ 4 57.5	1.915	2.834	9.1	19.6
3 12	8 58.19	+ 5 25.5	1.967	2.819	12.4	19.8

347362 2012 QB_{42} 2 7.9 193°.71 4°.2/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.74	− 2 35.4	2.772	3.483	12.6	21.6
1 12	9 40.59	− 2 23.6	2.669	3.481	10.4	21.4
1 22	9 34.83	− 1 55.0	2.588	3.478	8.0	21.2
2 1	9 27.88	− 1 9.7	2.534	3.475	5.6	21.1
2 11	9 20.35	− 0 10.0	2.509	3.472	4.2	21.0
2 21	9 12.93	+ 1 0.3	2.514	3.468	5.1	21.0
3 2	9 6.30	+ 2 16.3	2.550	3.463	7.4	21.2
3 12	9 1.06	+ 3 32.9	2.612	3.458	9.9	21.3

345541 2006 QN_{104} 2 7.9 199°.64 2°.4/10.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.13	+ 3 7.8	2.842	3.583	11.6	21.7
1 12	9 40.09	+ 3 36.9	2.740	3.580	9.4	21.5
1 22	9 34.50	+ 4 20.3	2.661	3.576	6.7	21.3
2 1	9 27.74	+ 5 16.4	2.610	3.572	4.0	21.1
2 11	9 20.43	+ 6 22.0	2.589	3.568	2.4	21.0
2 21	9 13.21	+ 7 33.0	2.600	3.563	4.2	21.1
3 2	9 6.76	+ 8 44.6	2.641	3.557	7.0	21.3
3 12	9 1.66	+ 9 52.7	2.709	3.552	9.7	21.5

439365 2012 YB_{9} 2 7.9 353°.30 1°.6/ 9.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.37	+ 9 16.7	2.625	3.394	11.8	20.7
1 12	9 41.11	+ 9 9.9	2.532	3.394	9.3	20.5
1 22	9 35.18	+ 9 12.5	2.463	3.393	6.4	20.3
2 1	9 28.02	+ 9 23.0	2.421	3.393	3.3	20.1
2 11	9 20.31	+ 9 39.1	2.409	3.392	1.7	20.0
2 21	9 12.78	+ 9 58.0	2.428	3.392	4.4	20.2
3 2	9 6.16	+10 16.8	2.475	3.392	7.4	20.4
3 12	9 1.03	+10 32.9	2.549	3.392	10.3	20.5

369063 2008 EX_{32} 2 7.9 218°.63 2°.3/10.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.94	+ 4 4.8	2.390	3.140	13.3	22.2
1 12	9 42.63	+ 4 43.3	2.283	3.131	10.7	21.9
1 22	9 36.36	+ 5 39.1	2.199	3.121	7.6	21.7
2 1	9 28.59	+ 6 50.2	2.143	3.110	4.2	21.5
2 11	9 20.03	+ 8 12.3	2.117	3.098	2.3	21.3
2 21	9 11.53	+ 9 39.6	2.122	3.086	4.9	21.5
3 2	9 3.95	+11 6.0	2.157	3.074	8.4	21.7
3 12	8 58.03	+12 25.8	2.219	3.060	11.6	21.9

166764 2002 UE_{33} 2 7.9 106°.48 2°.6/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.85	+ 6 3.8	2.370	3.129	13.2	20.0
1 12	9 42.36	+ 5 58.1	2.286	3.138	10.5	19.8
1 22	9 36.03	+ 6 4.9	2.225	3.147	7.4	19.7
2 1	9 28.38	+ 6 23.2	2.190	3.156	4.2	19.5
2 11	9 20.16	+ 6 50.1	2.185	3.165	2.6	19.4
2 21	9 12.19	+ 7 22.3	2.210	3.174	4.8	19.5
3 2	9 5.26	+ 7 55.9	2.264	3.182	8.0	19.8
3 12	9 0.00	+ 8 27.4	2.344	3.190	10.9	20.0

256271 2006 WL_{88} 2 7.9 146°.56 0°.1/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.30	+12 52.2	2.068	2.855	13.9	21.1
1 12	9 44.58	+13 26.9	1.987	2.863	10.8	20.9
1 22	9 37.65	+14 13.1	1.930	2.870	7.0	20.6
2 1	9 29.10	+15 6.5	1.899	2.877	2.9	20.4
2 11	9 19.83	+16 1.7	1.899	2.884	1.4	20.3
2 21	9 10.84	+16 53.1	1.928	2.890	5.6	20.6
3 2	9 3.12	+17 36.4	1.986	2.896	9.4	20.8
3 12	8 57.41	+18 8.9	2.068	2.901	12.7	21.0

375958 2009 WS_{178} 2 7.9 164°.33 0°.7/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.00	+12 5.9	2.139	2.922	13.7	21.3
1 12	9 44.28	+12 12.1	2.051	2.924	10.6	21.1
1 22	9 37.43	+12 28.4	1.987	2.925	7.1	20.8
2 1	9 29.01	+12 52.1	1.950	2.927	3.1	20.6
2 11	9 19.87	+13 19.4	1.943	2.928	1.3	20.5
2 21	9 10.99	+13 46.3	1.965	2.929	5.2	20.7
3 2	9 3.31	+14 9.3	2.016	2.930	9.0	21.0
3 12	8 57.56	+14 25.6	2.091	2.931	12.3	21.2

90116 2002 XY_{59} 2 7.9 11°.99 3°.5/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.12	+ 4 18.2	2.217	2.975	14.0	19.6
1 12	9 42.00	+ 4 0.5	2.127	2.975	11.3	19.4
1 22	9 35.92	+ 3 56.9	2.058	2.976	8.2	19.2
2 1	9 28.37	+ 4 6.8	2.016	2.977	5.1	19.0
2 11	9 20.16	+ 4 28.3	2.002	2.978	3.5	18.9
2 21	9 12.15	+ 4 57.9	2.017	2.978	5.4	19.0
3 2	9 5.20	+ 5 31.7	2.060	2.980	8.6	19.2
3 12	9 0.01	+ 6 5.2	2.129	2.981	11.6	19.4

462907 2010 XC_{71} 2 7.9 69°.52 0°.5/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.58	+15 36.4	1.698	2.500	15.9	21.4
1 12	9 46.65	+15 46.5	1.630	2.515	12.2	21.2
1 22	9 39.11	+16 5.9	1.584	2.529	7.9	21.0
2 1	9 29.71	+16 30.2	1.564	2.543	3.2	20.7
2 11	9 19.58	+16 54.1	1.572	2.557	1.8	20.6
2 21	9 9.97	+17 12.9	1.609	2.572	6.4	21.0
3 2	9 2.02	+17 23.5	1.673	2.586	10.6	21.3
3 12	8 56.53	+17 24.3	1.759	2.600	14.2	21.5

233823 2008 UM_{208} 2 7.9 329°.07 1°.0/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.78	+16 38.4	2.080	2.880	13.4	21.0
1 12	9 43.48	+17 2.5	1.995	2.879	10.3	20.8
1 22	9 36.97	+17 34.4	1.933	2.878	6.7	20.5
2 1	9 28.84	+18 10.2	1.898	2.877	2.8	20.3
2 11	9 19.96	+18 44.7	1.893	2.876	2.0	20.2
2 21	9 11.35	+19 13.4	1.916	2.875	5.9	20.5
3 2	9 3.97	+19 33.1	1.967	2.875	9.6	20.7
3 12	8 58.58	+19 42.1	2.043	2.874	12.9	20.9

456091 2006 BE_{128} 2 7.9 166°.84 0°.6/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.40	+16 8.3	1.887	2.677	15.0	21.6
1 12	9 49.48	+16 15.5	1.804	2.681	11.6	21.3
1 22	9 40.96	+16 30.5	1.743	2.685	7.6	21.1
2 1	9 30.51	+16 49.2	1.710	2.689	3.1	20.8
2 11	9 19.21	+17 6.9	1.707	2.691	1.7	20.7
2 21	9 8.30	+17 19.4	1.733	2.694	6.2	21.0
3 2	8 58.93	+17 24.1	1.787	2.695	10.4	21.3
3 12	8 51.96	+17 19.7	1.866	2.696	14.0	21.5

204278 2004 HG_{1} 2 7.9 356°.19 18°.2/14.2 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.14	−11 57.4	1.085	1.815	27.2	19.7
1 12	9 49.60	−15 3.0	1.018	1.813	24.6	19.5
1 22	9 42.13	−17 40.3	0.966	1.811	21.9	19.3
2 1	9 31.35	−19 35.1	0.930	1.810	19.6	19.1
2 11	9 18.72	−20 36.2	0.912	1.810	18.3	19.0
2 21	9 6.24	−20 40.5	0.913	1.810	18.6	19.0
3 2	8 55.98	−19 54.2	0.933	1.811	20.3	19.1
3 12	8 49.47	−18 32.4	0.968	1.813	22.8	19.3

88715 2001 SO_{21} 2 7.9 52°.70 3°.1/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.49	+ 5 10.9	1.331	2.127	19.8	19.3
1 12	9 44.17	+ 5 27.7	1.263	2.137	15.8	19.0
1 22	9 37.86	+ 6 9.1	1.214	2.148	11.0	18.8
2 1	9 29.30	+ 7 12.2	1.188	2.159	6.0	18.5
2 11	9 19.76	+ 8 30.2	1.188	2.171	3.2	18.4
2 21	9 10.69	+ 9 53.7	1.214	2.182	7.0	18.6
3 2	9 3.46	+11 13.2	1.265	2.194	11.9	18.9
3 12	8 59.03	+12 21.4	1.339	2.207	16.2	19.2

130638 2000 SC_{66} 2 7.9 101°.91 1°.6/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.43	+ 8 36.8	1.649	2.435	17.0	20.5
1 12	9 45.86	+ 8 58.4	1.578	2.450	13.3	20.3
1 22	9 38.67	+ 9 37.2	1.529	2.465	9.0	20.1
2 1	9 29.56	+10 29.5	1.505	2.479	4.3	19.8
2 11	9 19.66	+11 29.3	1.508	2.493	1.9	19.7
2 21	9 10.20	+12 29.8	1.541	2.507	6.1	20.0
3 2	9 2.34	+13 24.7	1.600	2.520	10.5	20.3
3 12	8 56.92	+14 9.5	1.683	2.533	14.3	20.6

278462 2007 TD_{160} 2 7.9 190°.69 4°.7/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.18	− 1 2.6	2.360	3.079	14.3	21.1
1 12	9 45.05	− 1 12.4	2.259	3.077	11.9	20.9
1 22	9 37.90	− 1 4.9	2.180	3.075	9.1	20.7
2 1	9 29.23	− 0 39.8	2.127	3.072	6.3	20.6
2 11	9 19.79	+ 0 1.1	2.103	3.068	4.7	20.5
2 21	9 10.48	+ 0 54.2	2.109	3.062	6.0	20.5
3 2	9 2.18	+ 1 54.4	2.145	3.056	8.7	20.7
3 12	8 55.62	+ 2 56.1	2.207	3.049	11.7	20.9

7180 1991 NG_1 2 7.9 139.°44 0.°8/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 48.57	+12 0.3	2.487	3.261	12.2	18.4
1 12	9 43.61	+12 1.5	2.401	3.268	9.5	18.2
1 22	9 36.82	+12 11.1	2.339	3.275	6.3	18.0
2 1	9 28.72	+12 26.9	2.305	3.281	2.8	17.8
2 11	9 20.05	+12 45.9	2.302	3.287	1.2	17.7
2 21	9 11.64	+13 4.9	2.329	3.293	4.6	17.9
3 2	9 4.26	+13 21.1	2.385	3.298	7.9	18.1
3 12	8 58.56	+13 32.4	2.468	3.303	10.8	18.3

305024 2007 TQ_{389} 2 7.9 246.°65 1.°8/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.66	+16 49.1	1.800	2.603	15.1	20.9
1 12	9 46.27	+17 33.0	1.704	2.590	11.7	20.6
1 22	9 39.16	+18 28.4	1.630	2.576	7.6	20.4
2 1	9 29.88	+19 29.4	1.582	2.561	3.3	20.1
2 11	9 19.46	+20 28.9	1.564	2.546	2.8	20.0
2 21	9 9.14	+21 19.9	1.574	2.530	7.2	20.2
3 2	9 0.22	+21 57.2	1.610	2.514	11.6	20.4
3 12	8 53.71	+22 18.8	1.670	2.497	15.5	20.7

218015 2001 XR_{228} 2 7.9 124.°43 4.°2/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.27	+ 1 48.8	2.240	2.977	14.5	20.6
1 12	9 45.03	+ 1 26.7	2.159	2.992	11.8	20.5
1 22	9 37.80	+ 1 20.0	2.100	3.006	8.8	20.3
2 1	9 29.13	+ 1 28.5	2.068	3.020	5.8	20.1
2 11	9 19.86	+ 1 50.5	2.064	3.034	4.2	20.1
2 21	9 10.89	+ 2 22.5	2.091	3.047	5.7	20.2
3 2	9 3.09	+ 3 0.1	2.145	3.059	8.6	20.4
3 12	8 57.12	+ 3 38.8	2.226	3.071	11.5	20.6

402632 2006 TL_{50} 2 7.9 99.°63 0.°1/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.24	+13 16.2	1.843	2.637	15.1	21.8
1 12	9 45.46	+13 43.6	1.773	2.652	11.7	21.6
1 22	9 38.28	+14 22.4	1.724	2.667	7.6	21.4
2 1	9 29.37	+15 8.5	1.703	2.681	3.1	21.1
2 11	9 19.76	+15 55.8	1.710	2.695	1.5	21.0
2 21	9 10.57	+16 39.0	1.747	2.709	5.9	21.3
3 2	9 2.86	+17 13.7	1.811	2.723	10.0	21.6
3 12	8 57.38	+17 37.5	1.899	2.737	13.4	21.9

153371 2001 QM_9 2 7.9 237.°34 1.°5/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.38	+ 8 30.0	1.800	2.580	16.0	21.2
1 12	9 46.01	+ 8 55.4	1.697	2.566	12.7	20.9
1 22	9 38.98	+ 9 38.4	1.616	2.551	8.7	20.7
2 1	9 29.82	+10 36.5	1.561	2.535	4.2	20.4
2 11	9 19.49	+11 44.2	1.534	2.519	1.8	20.2
2 21	9 9.19	+12 54.4	1.537	2.502	6.3	20.4
3 2	9 0.18	+14 0.3	1.567	2.484	10.9	20.6
3 12	8 53.49	+14 56.5	1.621	2.466	15.0	20.8

453578 2010 GF_{127} 2 7.9 160.°68 2.°7/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.79	+19 22.7	1.980	2.780	14.0	21.7
1 12	9 46.71	+20 26.6	1.902	2.787	10.7	21.5
1 22	9 39.17	+21 38.5	1.848	2.793	7.0	21.3
2 1	9 29.79	+22 51.5	1.823	2.798	3.4	21.1
2 11	9 19.56	+23 58.1	1.827	2.803	3.6	21.1
2 21	9 9.65	+24 52.1	1.860	2.807	7.2	21.3
3 2	9 1.14	+25 29.7	1.921	2.810	10.8	21.5
3 12	8 54.88	+25 50.2	2.006	2.813	14.0	21.8

42922 1999 SP_8 2 7.9 51.°99 5.°0/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.52	+24 39.0	1.738	2.559	14.7	17.3
1 12	9 44.50	+25 57.7	1.678	2.572	11.3	17.1
1 22	9 37.83	+27 19.9	1.641	2.585	7.7	16.9
2 1	9 29.23	+28 36.8	1.631	2.599	5.2	16.8
2 11	9 19.84	+29 39.7	1.649	2.613	5.9	16.8
2 21	9 10.93	+30 22.7	1.694	2.627	8.9	17.0
3 2	9 3.66	+30 43.5	1.764	2.641	12.3	17.3
3 12	8 58.86	+30 43.4	1.856	2.655	15.3	17.5

54642 2000 SH_{243} 2 7.9 181.°58 3.°2/ 5.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.41	+24 35.7	2.592	3.393	11.0	20.1
1 12	9 43.58	+25 13.2	2.510	3.393	8.5	19.9
1 22	9 36.86	+25 52.3	2.452	3.393	5.7	19.8
2 1	9 28.76	+26 28.1	2.423	3.393	3.5	19.6
2 11	9 20.06	+26 56.0	2.424	3.393	3.8	19.6
2 21	9 11.61	+27 12.6	2.455	3.393	6.3	19.8
3 2	9 4.24	+27 16.4	2.514	3.392	9.0	20.0
3 12	8 58.58	+27 7.4	2.597	3.391	11.5	20.1

450416 2005 TK_{146} 2 7.9 1.°83 5.°8/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.03	+24 4.8	1.248	2.085	18.4	20.8
1 12	9 47.55	+25 12.0	1.181	2.084	14.3	20.6
1 22	9 40.43	+26 25.8	1.135	2.083	9.7	20.3
2 1	9 30.49	+27 35.2	1.112	2.084	6.1	20.1
2 11	9 19.25	+28 28.4	1.114	2.084	6.9	20.1
2 21	9 8.57	+28 57.2	1.141	2.085	11.0	20.4
3 2	9 0.17	+28 59.1	1.191	2.086	15.5	20.6
3 12	8 55.19	+28 36.5	1.260	2.088	19.5	20.9

266204 2006 WS_{56} 2 7.9 154.°26 0.°8/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.04	+10 50.3	2.228	3.002	13.5	20.8
1 12	9 44.97	+11 7.3	2.143	3.010	10.5	20.6
1 22	9 37.83	+11 35.4	2.082	3.017	7.0	20.4
2 1	9 29.19	+12 11.8	2.049	3.024	3.2	20.2
2 11	9 19.87	+12 52.3	2.045	3.030	1.3	20.0
2 21	9 10.83	+13 32.4	2.072	3.036	5.1	20.3
3 2	9 2.95	+14 8.2	2.128	3.041	8.7	20.5
3 12	8 56.95	+14 36.8	2.209	3.045	11.9	20.8

132256 2002 EV_{108} 2 7.9 249.°37 3.°2/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.64	+19 15.0	1.679	2.493	15.5	20.3
1 12	9 45.67	+20 21.2	1.592	2.484	11.9	20.0
1 22	9 38.85	+21 38.3	1.528	2.475	7.8	19.7
2 1	9 29.78	+22 58.9	1.490	2.466	3.9	19.5
2 11	9 19.56	+24 13.6	1.480	2.457	4.2	19.5
2 21	9 9.52	+25 14.4	1.498	2.447	8.3	19.7
3 2	9 1.01	+25 56.1	1.542	2.437	12.6	19.9
3 12	8 55.09	+26 17.3	1.608	2.427	16.3	20.1

207459 2006 GJ_{19} 2 7.9 283.°63 2.°0/ 6.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.72	+17 13.2	1.566	2.380	16.4	21.1
1 12	9 46.01	+17 52.6	1.469	2.361	12.8	20.9
1 22	9 39.27	+18 44.4	1.393	2.341	8.4	20.5
2 1	9 30.03	+19 42.9	1.342	2.321	3.6	20.2
2 11	9 19.41	+20 39.8	1.319	2.301	3.1	20.1
2 21	9 8.86	+21 27.2	1.323	2.281	8.1	20.4
3 2	8 59.86	+21 59.5	1.352	2.261	13.0	20.6
3 12	8 53.61	+22 14.3	1.403	2.241	17.3	20.8

237329 2009 CA_4 2 7.9 17.°80 6.°2/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.85	+30 52.5	2.135	2.950	12.6	19.9
1 12	9 43.76	+32 15.4	2.067	2.952	10.0	19.8
1 22	9 37.28	+33 37.1	2.023	2.953	7.5	19.6
2 1	9 29.02	+34 49.5	2.006	2.955	6.2	19.5
2 11	9 19.95	+35 45.0	2.017	2.957	7.1	19.6
2 21	9 11.18	+36 19.1	2.056	2.959	9.4	19.7
3 2	9 3.80	+36 30.3	2.119	2.961	12.0	19.9
3 12	8 58.61	+36 20.3	2.204	2.964	14.4	20.1

171906 2001 SZ_{24} 2 7.9 98.°11 1.°6/ 9.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.53	+ 7 52.2	2.444	3.212	12.6	21.0
1 12	9 41.31	+ 8 11.0	2.364	3.225	9.9	20.9
1 22	9 35.34	+ 8 42.0	2.308	3.238	6.8	20.7
2 1	9 28.13	+ 9 22.9	2.279	3.251	3.4	20.5
2 11	9 20.39	+10 9.9	2.280	3.264	1.7	20.4
2 21	9 12.90	+10 58.8	2.311	3.276	4.5	20.6
3 2	9 6.42	+11 45.5	2.372	3.289	7.7	20.8
3 12	9 1.52	+12 26.6	2.458	3.301	10.6	21.0

81747 2000 JO_{52} 2 7.9 308.°50 5.°6/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.64	+26 35.7	1.635	2.458	15.4	18.8
1 12	9 46.61	+27 34.3	1.553	2.447	12.1	18.5
1 22	9 39.54	+28 35.7	1.493	2.436	8.5	18.3
2 1	9 30.09	+29 31.1	1.460	2.426	5.9	18.1
2 11	9 19.48	+30 11.4	1.452	2.416	6.6	18.1
2 21	9 9.18	+30 30.5	1.472	2.406	9.9	18.3
3 2	9 0.63	+30 26.1	1.515	2.396	13.7	18.5
3 12	8 54.89	+30 0.1	1.580	2.387	17.2	18.7

258653 2002 EH_{67} 2 7.9 303.°16 1.°2/ 8.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.32	+11 25.2	1.447	2.254	17.9	20.6
1 12	9 45.09	+11 24.9	1.348	2.233	14.2	20.3
1 22	9 38.77	+11 40.2	1.269	2.212	9.6	20.0
2 1	9 29.87	+12 8.8	1.214	2.191	4.4	19.6
2 11	9 19.54	+12 45.5	1.185	2.171	1.9	19.4
2 21	9 9.23	+13 23.9	1.183	2.151	7.3	19.7
3 2	9 0.50	+13 57.8	1.205	2.131	12.7	19.9
3 12	8 54.58	+14 22.4	1.249	2.111	17.5	20.1

464889 2005 MN_{19} 2 7.9 176.°82 8.°0/17.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.84	−18 22.1	3.241	3.829	12.9	22.1
1 12	9 40.52	−19 1.4	3.143	3.831	11.6	22.0
1 22	9 34.74	−19 22.0	3.063	3.832	10.3	21.9
2 1	9 27.89	−19 21.8	3.005	3.833	9.0	21.8
2 11	9 20.52	−18 59.8	2.972	3.834	8.2	21.8
2 21	9 13.24	−18 17.6	2.965	3.834	8.0	21.7
3 2	9 6.68	−17 18.2	2.985	3.833	8.7	21.8
3 12	9 1.37	−16 6.7	3.030	3.833	9.9	21.9

487171 2014 ON_{276} 2 7.9 8.°13 4.°5/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.29	+21 3.3	1.406	2.236	17.1	20.4
1 12	9 45.03	+22 23.6	1.336	2.237	13.1	20.1
1 22	9 38.60	+23 54.3	1.287	2.237	8.7	19.9
2 1	9 29.72	+25 25.5	1.264	2.238	5.0	19.7
2 11	9 19.68	+26 45.6	1.267	2.239	5.7	19.7
2 21	9 10.04	+27 45.5	1.295	2.241	9.8	20.0
3 2	9 2.29	+28 20.7	1.348	2.243	14.1	20.2
3 12	8 57.50	+28 31.3	1.421	2.245	17.9	20.5

384218 2009 CX_{60} 2 7.9 323°.11 3°.2/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.63	+24 10.9	2.024	2.833	13.4	21.0
1 12	9 45.91	+24 24.2	1.931	2.819	10.4	20.7
1 22	9 38.71	+24 38.9	1.862	2.806	7.0	20.5
2 1	9 29.65	+24 49.7	1.819	2.793	3.9	20.3
2 11	9 19.72	+24 51.6	1.805	2.780	3.9	20.3
2 21	9 10.06	+24 41.2	1.820	2.768	7.2	20.4
3 2	9 1.79	+24 17.3	1.862	2.756	10.8	20.6
3 12	8 55.76	+23 40.9	1.927	2.745	14.1	20.8

14984 1997 TN_{26} 2 7.9 144°.36 5°.9/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.11	+31 30.9	2.208	3.008	12.7	18.6
1 12	9 49.12	+32 33.4	2.142	3.018	10.1	18.4
1 22	9 40.65	+33 32.7	2.101	3.028	7.5	18.3
2 1	9 30.39	+34 21.3	2.087	3.037	6.0	18.2
2 11	9 19.42	+34 52.7	2.103	3.045	6.6	18.2
2 21	9 8.91	+35 3.3	2.146	3.053	8.8	18.4
3 2	8 59.95	+34 53.1	2.216	3.060	11.4	18.6
3 12	8 53.33	+34 24.6	2.309	3.067	13.9	18.7

301136 2008 XT_{9} 2 7.9 43°.04 4°.7/ 5.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.03	+22 45.9	1.417	2.245	17.1	21.1
1 12	9 47.06	+23 49.7	1.351	2.249	13.2	20.9
1 22	9 39.86	+25 0.3	1.306	2.254	8.8	20.6
2 1	9 30.21	+26 8.1	1.285	2.258	5.2	20.4
2 11	9 19.49	+27 3.0	1.291	2.263	5.7	20.5
2 21	9 9.30	+27 37.7	1.324	2.269	9.6	20.7
3 2	9 1.11	+27 49.3	1.380	2.274	13.9	21.0
3 12	8 55.94	+27 39.3	1.457	2.280	17.6	21.2

146939 2002 DR_{17} 2 7.9 339°.49 6°.4/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.04	+12 18.0	0.952	1.797	22.2	18.6
1 12	9 43.97	+16 8.9	0.881	1.793	16.9	18.3
1 22	9 38.88	+20 47.7	0.832	1.789	10.9	17.9
2 1	9 30.19	+25 50.9	0.810	1.786	6.5	17.7
2 11	9 19.37	+30 42.8	0.815	1.783	9.2	17.8
2 21	9 8.56	+34 50.0	0.847	1.781	15.2	18.1
3 2	9 0.13	+37 54.3	0.900	1.779	20.9	18.5
3 12	8 55.85	+39 55.1	0.971	1.778	25.5	18.8

309227 Tsukiko 2 7.9 205°.71 0°.5/ 8.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.97	+11 5.1	2.057	2.835	14.3	22.7
1 12	9 46.05	+11 33.0	1.960	2.829	11.2	22.5
1 22	9 38.78	+12 14.1	1.886	2.823	7.5	22.3
2 1	9 29.70	+13 5.1	1.839	2.816	3.3	22.0
2 11	9 19.70	+14 0.6	1.822	2.808	1.3	21.8
2 21	9 9.85	+14 55.2	1.836	2.799	5.6	22.1
3 2	9 1.20	+15 43.6	1.878	2.790	9.7	22.3
3 12	8 54.62	+16 22.3	1.945	2.779	13.3	22.5

423736 2006 BP_{206} 2 7.9 160°.47 0°.9/ 8.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.31	+11 2.0	2.594	3.361	11.9	22.1
1 12	9 44.13	+11 9.8	2.505	3.368	9.3	21.9
1 22	9 37.17	+11 26.5	2.440	3.374	6.2	21.8
2 1	9 28.92	+11 50.0	2.405	3.379	2.9	21.5
2 11	9 20.10	+12 17.1	2.399	3.384	1.2	21.4
2 21	9 11.50	+12 44.5	2.425	3.389	4.5	21.7
3 2	9 3.90	+13 9.1	2.481	3.393	7.7	21.9
3 12	8 57.91	+13 28.6	2.563	3.396	10.5	22.1

85448 1997 GR_{11} 2 7.9 185°.42 2°.3/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.78	+ 7 11.9	1.865	2.635	15.9	20.5
1 12	9 46.81	+ 7 19.0	1.774	2.635	12.6	20.3
1 22	9 39.33	+ 7 42.2	1.706	2.635	8.8	20.1
2 1	9 29.94	+ 8 19.6	1.663	2.634	4.6	19.8
2 11	9 19.61	+ 9 6.7	1.649	2.632	2.4	19.7
2 21	9 9.50	+ 9 58.3	1.665	2.630	5.9	19.9
3 2	9 0.75	+10 48.4	1.708	2.626	10.1	20.1
3 12	8 54.26	+11 32.4	1.776	2.622	13.9	20.3

115118 2003 SB_{44} 2 7.9 183°.60 3°.7/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.23	+ 4 11.4	1.882	2.642	16.1	20.2
1 12	9 45.57	+ 4 0.3	1.792	2.643	13.0	19.9
1 22	9 38.50	+ 4 6.2	1.723	2.643	9.4	19.7
2 1	9 29.59	+ 4 28.6	1.680	2.643	5.7	19.5
2 11	9 19.79	+ 5 4.7	1.665	2.642	3.7	19.4
2 21	9 10.20	+ 5 49.7	1.678	2.641	6.2	19.5
3 2	9 1.93	+ 6 38.2	1.719	2.639	9.9	19.7
3 12	8 55.83	+ 7 24.6	1.784	2.637	13.5	19.9

501379 2013 YH_{59} 2 7.9 36°.28 0°.2/ 8.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.48	+14 25.1	2.238	3.027	13.0	20.8
1 12	9 43.80	+14 23.2	2.153	3.029	10.0	20.6
1 22	9 37.09	+14 28.7	2.092	3.033	6.6	20.4
2 1	9 28.92	+14 39.1	2.058	3.036	2.8	20.2
2 11	9 20.12	+14 50.9	2.054	3.039	1.2	20.0
2 21	9 11.59	+15 1.0	2.079	3.042	5.1	20.3
3 2	9 4.23	+15 6.9	2.133	3.046	8.7	20.6
3 12	8 58.72	+15 6.7	2.212	3.050	11.8	20.8

6896 1987 RE_{1} 2 7.9 95°.30 1°.4/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 56.35	+17 5.7	1.571	2.373	17.0	18.0
1 12	9 50.45	+17 30.9	1.512	2.396	13.0	17.8
1 22	9 41.65	+18 5.0	1.474	2.419	8.4	17.5
2 1	9 30.83	+18 42.0	1.463	2.442	3.5	17.3
2 11	9 19.30	+19 15.0	1.480	2.464	2.5	17.3
2 21	9 8.47	+19 38.8	1.526	2.485	7.1	17.6
3 2	8 59.61	+19 50.5	1.598	2.506	11.4	17.9
3 12	8 53.52	+19 49.7	1.693	2.526	15.1	18.2

30556 2001 OX_{59} 2 7.9 136°.53 0°.7/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.21	+13 49.3	2.198	2.984	13.2	19.7
1 12	9 44.41	+14 42.9	2.120	2.997	10.1	19.5
1 22	9 37.52	+15 47.4	2.067	3.009	6.6	19.3
2 1	9 29.11	+16 57.6	2.043	3.021	2.7	19.0
2 11	9 20.04	+18 7.7	2.048	3.032	1.7	19.0
2 21	9 11.25	+19 11.6	2.084	3.043	5.5	19.3
3 2	9 3.65	+20 5.1	2.149	3.053	9.1	19.5
3 12	8 57.95	+20 45.7	2.239	3.062	12.2	19.7

41963 2000 XU_{35} 2 7.9 173°.92 3°.8/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 54.45	+26 22.4	2.278	3.075	12.5	19.7
1 12	9 48.46	+26 51.9	2.197	3.077	9.7	19.5
1 22	9 40.17	+27 21.1	2.141	3.079	6.6	19.3
2 1	9 30.21	+27 44.6	2.113	3.080	4.2	19.1
2 11	9 19.55	+27 57.0	2.115	3.081	4.5	19.2
2 21	9 9.28	+27 55.4	2.146	3.082	7.1	19.3
3 2	9 0.39	+27 38.9	2.206	3.082	10.2	19.5
3 12	8 53.65	+27 9.0	2.290	3.082	13.0	19.7

334082 2001 QA_{90} 2 7.9 83°.23 4°.0/10.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.42	+ 5 37.6	1.876	2.632	16.3	20.8
1 12	9 49.23	+ 4 49.8	1.807	2.654	13.1	20.7
1 22	9 40.64	+ 4 15.7	1.759	2.677	9.4	20.5
2 1	9 30.38	+ 3 55.6	1.739	2.699	5.8	20.3
2 11	9 19.50	+ 3 48.1	1.747	2.721	4.1	20.3
2 21	9 9.15	+ 3 50.6	1.784	2.743	6.3	20.4
3 2	9 0.35	+ 3 59.2	1.850	2.765	9.7	20.7
3 12	8 53.84	+ 4 10.2	1.940	2.786	12.9	20.9

5235 Jean–Loup 2 7.9 218°.97 2°.7/ 9.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.24	+ 7 3.8	1.817	2.589	16.1	16.9
1 12	9 46.55	+ 6 59.5	1.721	2.582	12.9	16.7
1 22	9 39.26	+ 7 10.9	1.646	2.575	9.1	16.4
2 1	9 29.96	+ 7 36.9	1.597	2.567	4.9	16.2
2 11	9 19.63	+ 8 13.8	1.576	2.558	2.8	16.0
2 21	9 9.44	+ 8 56.6	1.584	2.549	6.2	16.2
3 2	9 0.60	+ 9 39.9	1.620	2.540	10.4	16.4
3 12	8 54.06	+10 18.7	1.680	2.530	14.3	16.7

118625 2000 HF_{28} 2 7.9 322°.90 21°.5/14.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	10 2.43	+58 17.7	1.202	1.987	22.1	18.1
1 12	10 0.86	+61 13.9	1.158	1.964	21.5	17.9
1 22	9 51.97	+63 42.5	1.131	1.941	21.7	17.9
2 1	9 36.19	+65 21.9	1.119	1.920	22.6	17.8
2 11	9 16.71	+65 55.3	1.122	1.899	24.1	17.9
2 21	8 58.54	+65 18.3	1.137	1.879	25.8	17.9
3 2	8 46.09	+63 38.2	1.164	1.861	27.7	18.0
3 12	8 41.14	+61 9.9	1.199	1.844	29.5	18.1

240582 2004 TX_{129} 2 7.9 65°.25 5°.5/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.22	+24 44.3	1.392	2.219	17.4	20.2
1 12	9 48.73	+25 49.9	1.333	2.230	13.4	19.9
1 22	9 40.91	+26 59.4	1.296	2.242	9.2	19.7
2 1	9 30.64	+28 2.5	1.284	2.254	5.8	19.6
2 11	9 19.39	+28 49.0	1.298	2.266	6.4	19.6
2 21	9 8.83	+29 12.7	1.338	2.278	10.1	19.9
3 2	9 0.46	+29 12.2	1.402	2.291	14.1	20.1
3 12	8 55.21	+28 50.1	1.487	2.303	17.6	20.4

296009 2008 YW_{118} 2 7.9 233°.95 0°.3/ 8.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.18	+12 52.8	2.880	3.653	10.8	22.0
1 12	9 42.49	+13 3.8	2.773	3.640	8.4	21.8
1 22	9 36.13	+13 22.2	2.690	3.627	5.5	21.6
2 1	9 28.53	+13 45.9	2.636	3.613	2.4	21.4
2 11	9 20.31	+14 11.8	2.613	3.599	1.0	21.2
2 21	9 12.18	+14 36.9	2.622	3.584	4.2	21.4
3 2	9 4.85	+14 58.5	2.660	3.569	7.3	21.6
3 12	8 58.93	+15 14.7	2.724	3.553	10.1	21.8

171897 2001 RQ_{89} 2 7.9 166°.49 3°.4/ 4.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.66	+25 58.6	2.689	3.487	10.8	20.9
1 12	9 44.49	+26 38.0	2.609	3.490	8.3	20.8
1 22	9 37.45	+27 17.9	2.555	3.493	5.7	20.6
2 1	9 29.06	+27 53.4	2.529	3.496	3.7	20.5
2 11	9 20.10	+28 19.9	2.534	3.498	4.0	20.5
2 21	9 11.41	+28 34.4	2.568	3.500	6.3	20.7
3 2	9 3.79	+28 35.6	2.631	3.502	8.9	20.8
3 12	8 57.88	+28 23.9	2.718	3.503	11.3	21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
170121 2002 YE_{23}			2 7.9 55°.83		3°.1/10.1 18	
	h m	° ′			°	m
1 2	9 47.49	+ 5 51.8	2.149	2.912	14.2	20.0
1 12	9 43.05	+ 5 32.2	2.069	2.923	11.4	19.8
1 22	9 36.61	+ 5 25.7	2.012	2.934	8.1	19.6
2 1	9 28.74	+ 5 31.7	1.981	2.945	4.8	19.4
2 11	9 20.26	+ 5 47.9	1.978	2.956	3.1	19.3
2 21	9 12.08	+ 6 10.8	2.005	2.968	5.3	19.5
3 2	9 5.06	+ 6 36.7	2.060	2.980	8.6	19.7
3 12	8 59.88	+ 7 1.8	2.140	2.991	11.6	19.9
175496 2006 RE_{64}			2 7.9 108°.58		0°.4/ 8.3 18	
1 2	9 46.15	+11 53.3	2.647	3.423	11.5	21.1
1 12	9 41.67	+12 16.9	2.569	3.438	8.9	20.9
1 22	9 35.54	+12 49.5	2.516	3.453	5.8	20.8
2 1	9 28.25	+13 28.0	2.491	3.467	2.5	20.6
2 11	9 20.48	+14 8.8	2.496	3.482	1.0	20.5
2 21	9 12.97	+14 48.3	2.533	3.496	4.3	20.7
3 2	9 6.40	+15 23.2	2.598	3.509	7.4	20.9
3 12	9 1.35	+15 51.1	2.690	3.523	10.1	21.1
218873 2006 YS_{16}			2 7.9 209°.04		2°.7/ 9.5 18	
1 2	9 52.12	+ 8 2.8	2.121	2.884	14.4	20.3
1 12	9 46.77	+ 7 36.4	2.024	2.880	11.5	20.1
1 22	9 39.17	+ 7 21.1	1.951	2.876	8.1	19.9
2 1	9 29.86	+ 7 16.1	1.904	2.872	4.5	19.7
2 11	9 19.73	+ 7 19.6	1.886	2.867	2.7	19.6
2 21	9 9.79	+ 7 28.7	1.899	2.862	5.6	19.7
3 2	9 1.06	+ 7 40.2	1.940	2.856	9.2	19.9
3 12	8 54.33	+ 7 50.9	2.007	2.850	12.6	20.1
155921 2001 OJ_{105}			2 7.9 162°.65		3°.0/ 9.9 18	
1 2	9 52.23	+ 5 21.2	1.929	2.688	15.8	20.0
1 12	9 47.00	+ 5 20.4	1.842	2.695	12.6	19.8
1 22	9 39.37	+ 5 36.1	1.778	2.701	9.0	19.6
2 1	9 29.95	+ 6 6.7	1.740	2.706	5.1	19.4
2 11	9 19.70	+ 6 48.8	1.730	2.710	3.1	19.3
2 21	9 9.72	+ 7 37.3	1.750	2.714	5.9	19.4
3 2	9 1.09	+ 8 26.8	1.799	2.717	9.7	19.7
3 12	8 54.63	+ 9 12.1	1.872	2.719	13.2	19.9
357522 2004 RV_{111}			2 7.9 122°.11		3°.7/ 6.3 18	
1 2	10 6.67	+26 11.8	1.837	2.623	15.4	20.9
1 12	9 58.03	+26 13.4	1.767	2.641	12.0	20.7
1 22	9 46.42	+26 12.6	1.722	2.659	8.1	20.5
2 1	9 32.77	+26 3.2	1.704	2.675	4.5	20.3
2 11	9 18.50	+25 40.2	1.718	2.691	4.4	20.3
2 21	9 5.10	+25 2.3	1.762	2.706	7.7	20.5
3 2	8 53.85	+24 11.0	1.835	2.720	11.4	20.8
3 12	8 45.57	+23 9.8	1.933	2.734	14.7	21.0
504825 2010 JK_{157}			2 7.9 228°.79		1°.4/ 9.4 17	
1 2	9 44.31	+ 7 29.1	2.835	3.595	11.2	22.7
1 12	9 40.32	+ 7 55.5	2.729	3.586	8.9	22.6
1 22	9 34.74	+ 8 33.7	2.648	3.576	6.1	22.4
2 1	9 27.96	+ 9 21.6	2.595	3.566	3.1	22.1
2 11	9 20.60	+10 16.0	2.572	3.555	1.5	22.0
2 21	9 13.30	+11 12.9	2.580	3.545	4.1	22.2
3 2	9 6.77	+12 8.3	2.618	3.534	7.2	22.4
3 12	9 1.59	+12 58.7	2.683	3.522	9.9	22.5
241082 2006 US_{39}			2 7.9 161°.21		0°.7/ 8.6 17	
1 2	9 45.44	+10 43.3	2.958	3.725	10.6	21.6
1 12	9 41.02	+11 1.1	2.867	3.730	8.3	21.4
1 22	9 35.09	+11 27.4	2.801	3.735	5.5	21.2
2 1	9 28.07	+12 0.0	2.764	3.739	2.5	21.0
2 11	9 20.58	+12 36.0	2.758	3.743	1.0	20.9
2 21	9 13.25	+13 12.2	2.782	3.746	3.9	21.2
3 2	9 6.73	+13 45.5	2.837	3.749	6.8	21.3
3 12	9 1.54	+14 13.6	2.919	3.752	9.4	21.5
295925 2008 WS_{137}			2 7.9 75°.97		4°.6/10.5 18	
1 2	9 51.10	+ 3 57.0	1.492	2.267	18.9	20.4
1 12	9 46.64	+ 3 32.0	1.422	2.280	15.3	20.2
1 22	9 39.35	+ 3 27.3	1.371	2.294	11.1	20.0
2 1	9 29.98	+ 3 42.7	1.344	2.307	6.8	19.8
2 11	9 19.73	+ 4 15.1	1.344	2.320	4.6	19.7
2 21	9 9.95	+ 4 58.6	1.370	2.334	7.1	19.8
3 2	9 1.91	+ 5 46.6	1.422	2.347	11.2	20.1
3 12	8 56.52	+ 6 32.4	1.497	2.360	15.1	20.4
498556 2008 HS_{46}			2 7.9 226°.62		2°.8/ 5.2 17	
1 2	9 48.74	+20 11.7	2.380	3.177	12.0	22.7
1 12	9 44.21	+21 23.9	2.282	3.166	9.2	22.5
1 22	9 37.56	+22 43.8	2.210	3.154	6.1	22.3
2 1	9 29.24	+24 5.4	2.167	3.141	3.3	22.1
2 11	9 20.05	+25 21.9	2.155	3.128	3.6	22.1
2 21	9 10.93	+26 27.3	2.173	3.114	6.7	22.3
3 2	9 2.82	+27 17.5	2.219	3.100	10.0	22.4
3 12	8 56.54	+27 51.0	2.290	3.084	12.9	22.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
500221 2012 HS_{64}			2 7.9 269°.21		7°.4/ 1.9 17	
	h m	° ′			°	m
1 2	9 52.04	+32 40.4	1.917	2.730	13.9	21.7
1 12	9 47.49	+34 2.4	1.838	2.720	11.2	21.5
1 22	9 40.05	+35 22.7	1.783	2.709	8.7	21.3
2 1	9 30.35	+36 31.5	1.754	2.698	7.4	21.2
2 11	9 19.56	+37 19.9	1.753	2.688	8.3	21.2
2 21	9 9.04	+37 42.5	1.777	2.677	10.8	21.4
3 2	9 0.15	+37 38.2	1.826	2.666	13.7	21.5
3 12	8 53.90	+37 9.8	1.896	2.655	16.4	21.7
240534 2004 GH_{7}			2 7.9 168°.79		1°.2/ 6.8 18	
1 2	9 46.22	+16 55.0	2.540	3.333	11.5	21.5
1 12	9 41.94	+17 32.4	2.454	3.334	8.8	21.4
1 22	9 35.86	+18 16.6	2.392	3.336	5.7	21.2
2 1	9 28.45	+19 3.7	2.359	3.337	2.4	20.9
2 11	9 20.45	+19 49.3	2.356	3.338	1.9	20.9
2 21	9 12.63	+20 29.0	2.383	3.339	5.1	21.1
3 2	9 5.80	+20 59.9	2.439	3.340	8.3	21.3
3 12	9 0.58	+21 20.3	2.520	3.340	11.1	21.5
286011 2001 SM_{118}			2 7.9 239°.06		4°.1/10.5 18	
1 2	9 49.35	+ 3 15.9	1.675	2.442	17.5	21.2
1 12	9 45.36	+ 3 14.0	1.578	2.432	14.3	20.9
1 22	9 38.67	+ 3 33.2	1.501	2.422	10.4	20.7
2 1	9 29.81	+ 4 13.1	1.448	2.411	6.3	20.4
2 11	9 19.80	+ 5 10.4	1.422	2.400	4.1	20.2
2 21	9 9.88	+ 6 19.0	1.424	2.389	6.8	20.4
3 2	9 1.33	+ 7 31.2	1.453	2.377	11.1	20.6
3 12	8 55.19	+ 8 39.5	1.506	2.365	15.2	20.8
368082 2012 RR_{11}			2 7.9 85°.59		1°.5/ 6.7 18	
1 2	9 49.12	+19 12.1	2.343	3.139	12.2	20.9
1 12	9 44.21	+19 29.5	2.266	3.148	9.3	20.7
1 22	9 37.33	+19 51.3	2.213	3.157	6.0	20.5
2 1	9 29.05	+20 13.7	2.188	3.166	2.6	20.3
2 11	9 20.21	+20 32.7	2.193	3.174	2.2	20.3
2 21	9 11.70	+20 44.8	2.228	3.183	5.5	20.5
3 2	9 4.36	+20 48.2	2.291	3.192	8.8	20.7
3 12	8 58.85	+20 42.1	2.379	3.201	11.6	20.9
158853 2004 NJ_{32}			2 7.9 135°.26		1°.1/ 8.8 18	
1 2	9 51.89	+ 8 33.5	2.104	2.870	14.4	21.5
1 12	9 46.48	+ 9 11.4	2.027	2.888	11.3	21.3
1 22	9 38.89	+10 3.8	1.974	2.906	7.6	21.1
2 1	9 29.73	+11 6.9	1.948	2.922	3.5	20.9
2 11	9 19.91	+12 15.3	1.953	2.938	1.4	20.8
2 21	9 10.42	+13 22.9	1.988	2.952	5.2	21.1
3 2	9 2.21	+14 24.5	2.053	2.965	9.0	21.3
3 12	8 56.01	+15 16.2	2.144	2.978	12.3	21.6
241978 2002 JC_{78}			2 7.9 272°.15		8°.2/13.1 18	
1 2	9 47.69	− 5 33.3	1.770	2.493	18.3	20.6
1 12	9 44.06	− 6 17.4	1.664	2.475	15.8	20.3
1 22	9 37.84	− 6 38.5	1.577	2.457	12.8	20.1
2 1	9 29.49	− 6 32.7	1.511	2.438	10.0	19.9
2 11	9 19.94	− 5 59.1	1.471	2.419	8.3	19.7
2 21	9 10.33	− 5 0.4	1.456	2.400	9.1	19.7
3 2	9 1.92	− 3 43.2	1.468	2.380	11.9	19.8
3 12	8 55.75	− 2 16.6	1.502	2.361	15.3	20.0
197967 2004 RV_{106}			2 7.9 343°.01		1°.4/ 8.5 18	
1 2	9 50.63	+12 38.5	1.264	2.080	19.4	19.6
1 12	9 47.07	+12 16.1	1.184	2.074	15.3	19.3
1 22	9 40.11	+12 7.1	1.124	2.069	10.4	19.0
2 1	9 30.47	+12 9.2	1.087	2.064	4.8	18.7
2 11	9 19.54	+12 18.0	1.075	2.060	2.1	18.5
2 21	9 8.98	+12 28.3	1.089	2.057	7.6	18.8
3 2	9 0.43	+12 35.5	1.126	2.055	13.1	19.1
3 12	8 55.04	+12 36.1	1.184	2.053	17.8	19.4
376180 2011 CD_{32}			2 7.9 172°.71		1°.3/ 8.9 18	
1 2	9 47.14	+ 9 1.2	2.110	2.888	14.0	21.9
1 12	9 42.98	+ 9 21.9	2.021	2.889	11.0	21.7
1 22	9 36.71	+ 9 56.3	1.956	2.890	7.5	21.5
2 1	9 28.86	+10 41.7	1.916	2.890	3.6	21.3
2 11	9 20.28	+11 33.6	1.906	2.891	1.6	21.1
2 21	9 11.91	+12 26.9	1.926	2.891	5.2	21.4
3 2	9 4.68	+13 16.7	1.974	2.892	9.0	21.6
3 12	8 59.33	+13 58.9	2.047	2.892	12.3	21.8
406463 2007 UM_{23}			2 7.9 274°.37		4°.9/ 4.6 18	
1 2	9 51.06	+24 3.7	1.609	2.430	15.7	21.3
1 12	9 46.98	+25 9.1	1.528	2.423	12.2	21.1
1 22	9 39.84	+26 20.5	1.469	2.415	8.3	20.8
2 1	9 30.32	+27 29.1	1.436	2.407	5.3	20.6
2 11	9 19.61	+28 25.0	1.431	2.399	5.9	20.6
2 21	9 9.18	+29 1.2	1.452	2.391	9.5	20.8
3 2	9 0.49	+29 14.6	1.497	2.383	13.5	21.0
3 12	8 54.60	+29 5.9	1.564	2.375	17.1	21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
380010 2013 OG_8			2 7.9 213°.55	4°.8/11.5 17		
	h m	° ′			°	m
1 2	9 48.87	− 0 5.3	2.343	3.070	14.2	21.4
1 12	9 44.15	− 0 29.4	2.240	3.064	11.8	21.2
1 22	9 37.42	− 0 37.9	2.159	3.056	9.0	21.0
2 1	9 29.17	− 0 30.0	2.103	3.049	6.3	20.8
2 11	9 20.14	− 0 6.8	2.076	3.040	4.8	20.7
2 21	9 11.20	+ 0 28.8	2.079	3.032	6.0	20.8
3 2	9 3.24	+ 1 12.4	2.110	3.022	8.8	20.9
3 12	8 57.01	+ 1 59.1	2.167	3.013	11.7	21.1
468720 2010 EO_{136}			2 7.9 271°.87	1°.5/ 9.1 18		
1 2	9 45.59	+ 8 43.1	2.233	3.009	13.4	21.7
1 12	9 41.68	+ 8 58.2	2.142	3.008	10.5	21.5
1 22	9 35.81	+ 9 26.2	2.074	3.007	7.2	21.3
2 1	9 28.48	+10 4.8	2.032	3.006	3.6	21.1
2 11	9 20.46	+10 50.2	2.020	3.005	1.7	20.9
2 21	9 12.63	+11 37.8	2.038	3.003	4.9	21.2
3 2	9 5.84	+12 23.0	2.084	3.002	8.5	21.4
3 12	9 0.80	+13 2.1	2.155	3.001	11.7	21.6
405322 2003 UN_{176}			2 7.9 169°.07	0°.0/ 7.9 18		
1 2	9 51.85	+12 59.9	2.100	2.881	13.9	22.2
1 12	9 46.59	+13 22.3	2.013	2.885	10.8	22.0
1 22	9 39.06	+13 55.3	1.951	2.890	7.1	21.8
2 1	9 29.84	+14 35.1	1.915	2.893	3.0	21.5
2 11	9 19.87	+15 17.0	1.910	2.895	1.3	21.4
2 21	9 10.15	+15 56.1	1.935	2.897	5.5	21.7
3 2	9 1.71	+16 28.4	1.989	2.899	9.4	21.9
3 12	8 55.31	+16 51.4	2.067	2.899	12.8	22.1
450997 2008 TZ_{89}			2 7.9 110°.39	0°.0/ 7.9 18		
1 2	9 52.91	+12 29.2	1.619	2.414	16.8	22.7
1 12	9 47.87	+12 56.3	1.550	2.430	13.0	22.4
1 22	9 40.09	+13 37.3	1.503	2.445	8.5	22.2
2 1	9 30.30	+14 27.3	1.482	2.460	3.6	22.0
2 11	9 19.69	+15 19.5	1.490	2.475	1.5	21.8
2 21	9 9.58	+16 7.5	1.525	2.489	6.5	22.2
3 2	9 1.19	+16 46.3	1.588	2.503	11.0	22.5
3 12	8 55.38	+17 12.9	1.674	2.516	14.8	22.7
428866 2008 UB_{143}			2 7.9 35°.47	5°.4/ 3.7 18		
1 2	9 49.37	+28 2.5	1.987	2.802	13.4	21.5
1 12	9 45.02	+29 6.2	1.917	2.805	10.4	21.3
1 22	9 38.17	+30 10.0	1.871	2.809	7.4	21.1
2 1	9 29.50	+31 6.5	1.852	2.813	5.5	21.0
2 11	9 20.03	+31 48.4	1.861	2.817	6.1	21.1
2 21	9 10.95	+32 11.1	1.897	2.821	8.8	21.2
3 2	9 3.34	+32 13.3	1.959	2.825	11.8	21.4
3 12	8 58.04	+31 56.5	2.043	2.829	14.5	21.6
90523 2004 EX_{79}			2 7.9 201°.08	2°.2/ 5.9 18		
1 2	9 47.98	+16 43.9	2.025	2.826	13.7	19.6
1 12	9 43.89	+18 3.2	1.938	2.823	10.5	19.4
1 22	9 37.47	+19 34.4	1.875	2.821	6.8	19.1
2 1	9 29.24	+21 10.8	1.840	2.818	3.1	18.9
2 11	9 20.12	+22 44.1	1.836	2.814	3.2	18.9
2 21	9 11.14	+24 6.8	1.861	2.811	6.9	19.1
3 2	9 3.38	+25 13.3	1.914	2.807	10.7	19.3
3 12	8 57.69	+26 1.3	1.991	2.802	13.9	19.5
157554 2005 UL_{79}			2 7.9 99°.36	1°.1/ 8.6 18		
1 2	9 50.19	+ 9 35.2	1.464	2.263	18.2	20.5
1 12	9 46.14	+10 3.2	1.391	2.271	14.2	20.3
1 22	9 39.17	+10 50.0	1.339	2.280	9.5	20.1
2 1	9 29.99	+11 51.4	1.311	2.288	4.3	19.8
2 11	9 19.82	+13 0.1	1.311	2.296	1.7	19.6
2 21	9 10.08	+14 7.7	1.337	2.304	6.8	20.0
3 2	9 2.09	+15 7.2	1.390	2.312	11.6	20.2
3 12	8 56.81	+15 53.7	1.465	2.320	15.8	20.5
270454 2002 CC_{229}			2 7.9 235°.68	0°.4/ 8.2 18		
1 2	9 47.09	+11 33.9	1.977	2.767	14.4	21.2
1 12	9 43.13	+12 1.6	1.889	2.765	11.2	21.0
1 22	9 36.91	+12 42.2	1.823	2.764	7.4	20.7
2 1	9 29.00	+13 32.3	1.785	2.762	3.2	20.5
2 11	9 20.27	+14 26.6	1.775	2.760	1.3	20.3
2 21	9 11.75	+15 19.4	1.794	2.758	5.6	20.6
3 2	9 4.45	+16 5.8	1.840	2.756	9.6	20.9
3 12	8 59.18	+16 42.1	1.911	2.754	13.2	21.1
345300 2005 WC_{161}			2 7.9 81°.06	3°.7/ 9.8 18		
1 2	9 53.01	+ 6 38.1	1.428	2.213	19.2	20.0
1 12	9 48.24	+ 6 13.4	1.359	2.227	15.3	19.7
1 22	9 40.48	+ 6 7.1	1.310	2.240	10.8	19.5
2 1	9 30.51	+ 6 18.3	1.285	2.253	6.1	19.3
2 11	9 19.62	+ 6 43.2	1.286	2.267	3.7	19.2
2 21	9 9.27	+ 7 16.4	1.314	2.280	7.0	19.4
3 2	9 0.79	+ 7 51.8	1.368	2.293	11.5	19.7
3 12	8 55.12	+ 8 23.8	1.445	2.306	15.6	20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
180971 2005 MX_{39}			2 7.9 281°.66	2°.0/ 6.3 18		
	h m	° ′			°	m
1 2	9 47.07	+15 37.2	1.765	2.573	15.1	20.7
1 12	9 43.69	+16 45.1	1.665	2.554	11.7	20.5
1 22	9 37.65	+18 8.4	1.587	2.534	7.6	20.2
2 1	9 29.44	+19 40.9	1.536	2.515	3.3	19.9
2 11	9 20.02	+21 13.9	1.513	2.495	3.1	19.8
2 21	9 10.60	+22 38.3	1.519	2.475	7.5	20.0
3 2	9 2.46	+23 47.0	1.552	2.455	12.0	20.2
3 12	8 56.67	+24 36.3	1.607	2.435	16.0	20.4
118669 2000 KO_{54}			2 7.9 215°.82	3°.3/ 4.9 18		
1 2	9 48.96	+20 43.1	2.196	2.998	12.7	20.5
1 12	9 44.55	+22 3.0	2.105	2.991	9.7	20.3
1 22	9 37.87	+23 30.9	2.040	2.984	6.5	20.1
2 1	9 29.42	+25 0.0	2.003	2.976	3.6	19.9
2 11	9 20.07	+26 22.5	1.997	2.968	4.1	19.9
2 21	9 10.81	+27 31.8	2.020	2.959	7.3	20.1
3 2	9 2.71	+28 23.7	2.072	2.950	10.7	20.3
3 12	8 56.59	+28 56.9	2.146	2.940	13.7	20.5
522670 2016 GB_{266}			2 7.9 175°.65	0°.5/ 7.4 17		
1 2	9 45.17	+13 57.2	2.778	3.560	10.9	22.4
1 12	9 41.01	+14 44.0	2.687	3.561	8.3	22.2
1 22	9 35.21	+15 39.4	2.622	3.563	5.4	22.0
2 1	9 28.21	+16 39.9	2.585	3.564	2.2	21.8
2 11	9 20.65	+17 41.0	2.580	3.564	1.3	21.7
2 21	9 13.23	+18 38.3	2.606	3.565	4.6	21.9
3 2	9 6.66	+19 28.2	2.661	3.565	7.6	22.1
3 12	9 1.51	+20 8.3	2.743	3.564	10.3	22.3
181772 1997 LS_2			2 7.9 155°.56	2°.6/10.3 18		
1 2	9 47.69	+ 3 34.2	2.249	3.000	14.1	21.3
1 12	9 43.24	+ 4 4.3	2.161	3.007	11.3	21.2
1 22	9 36.81	+ 4 51.8	2.094	3.014	8.0	21.0
2 1	9 28.91	+ 5 54.5	2.055	3.020	4.6	20.8
2 11	9 20.34	+ 7 8.0	2.046	3.026	2.6	20.6
2 21	9 11.97	+ 8 26.7	2.067	3.031	5.0	20.8
3 2	9 4.67	+ 9 44.5	2.117	3.035	8.4	21.0
3 12	8 59.13	+10 56.1	2.194	3.039	11.6	21.2
523519 2017 OZ_{34}			2 7.9 255°.30	1°.7/ 9.1 17		
1 2	9 49.10	+ 9 34.7	2.169	2.943	13.8	21.5
1 12	9 44.56	+ 9 30.6	2.065	2.929	10.9	21.3
1 22	9 37.82	+ 9 37.8	1.983	2.916	7.5	21.1
2 1	9 29.40	+ 9 54.9	1.929	2.901	3.8	20.8
2 11	9 20.10	+10 18.7	1.903	2.887	1.9	20.6
2 21	9 10.90	+10 45.4	1.907	2.872	5.3	20.8
3 2	9 2.77	+11 11.4	1.940	2.857	9.1	21.0
3 12	8 56.54	+11 33.1	1.998	2.842	12.6	21.2
520834 2014 UU_{234}			2 7.9 179°.11	3°.4/ 5.2 18		
1 2	9 51.72	+22 48.7	2.206	3.006	12.7	22.2
1 12	9 46.54	+23 43.0	2.124	3.008	9.8	22.0
1 22	9 39.07	+24 41.4	2.067	3.009	6.5	21.8
2 1	9 29.88	+25 37.7	2.038	3.009	3.8	21.6
2 11	9 19.92	+26 25.5	2.039	3.009	4.1	21.6
2 21	9 10.21	+27 0.0	2.069	3.009	7.1	21.8
3 2	9 1.79	+27 18.8	2.127	3.007	10.3	22.0
3 12	8 55.44	+27 21.7	2.209	3.005	13.2	22.2
236040 2005 GP_{182}			2 7.9 127°.53	4°.3/ 4.2 18		
1 2	9 49.71	+27 18.6	2.415	3.219	11.7	20.8
1 12	9 44.79	+28 10.7	2.343	3.226	9.0	20.6
1 22	9 37.80	+29 2.9	2.296	3.233	6.3	20.4
2 1	9 29.31	+29 49.1	2.277	3.239	4.4	20.3
2 11	9 20.19	+30 23.9	2.287	3.246	4.9	20.4
2 21	9 11.40	+30 43.8	2.326	3.252	7.3	20.5
3 2	9 3.83	+30 47.5	2.393	3.258	9.9	20.7
3 12	8 58.16	+30 35.7	2.483	3.264	12.4	20.9
421366 2013 TH_{129}			2 7.9 87°.35	4°.0/11.5 18		
1 2	9 45.03	+ 0 24.3	2.153	2.897	14.8	21.1
1 12	9 41.26	+ 0 37.2	2.069	2.906	12.1	20.9
1 22	9 35.54	+ 1 9.1	2.006	2.915	9.0	20.7
2 1	9 28.39	+ 1 59.3	1.969	2.924	5.8	20.6
2 11	9 20.60	+ 3 4.1	1.960	2.933	4.0	20.5
2 21	9 13.03	+ 4 18.2	1.980	2.942	5.5	20.6
3 2	9 6.55	+ 5 35.4	2.029	2.950	8.5	20.8
3 12	9 1.83	+ 6 49.7	2.103	2.959	11.6	21.0
449142 2013 AC_{62}			2 7.9 103°.00	5°.0/ 4.9 18		
1 2	9 54.84	+23 53.0	1.498	2.317	16.8	21.2
1 12	9 49.79	+24 59.6	1.437	2.330	12.9	21.0
1 22	9 41.56	+26 10.9	1.399	2.343	8.7	20.8
2 1	9 30.98	+27 16.9	1.386	2.356	5.4	20.6
2 11	9 19.46	+28 8.0	1.400	2.369	5.9	20.7
2 21	9 8.57	+28 38.0	1.441	2.381	9.5	20.9
3 2	8 59.74	+28 45.0	1.507	2.393	13.4	21.2
3 12	8 53.92	+28 31.2	1.594	2.404	16.9	21.4

327292 2005 TJ_{104} 2 7.9 116°.77 5°.6/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.98	− 2 17.1	2.076	2.802	15.8	21.2
1 12	9 43.58	− 2 36.7	1.993	2.813	13.2	21.0
1 22	9 37.08	− 2 36.6	1.931	2.824	10.2	20.8
2 1	9 29.04	− 2 16.1	1.894	2.834	7.3	20.7
2 11	9 20.31	− 1 37.1	1.884	2.844	5.6	20.6
2 21	9 11.85	− 0 43.8	1.902	2.854	6.6	20.7
3 2	9 4.56	+ 0 18.2	1.948	2.863	9.3	20.8
3 12	8 59.17	+ 1 22.5	2.020	2.872	12.2	21.0

239879 2000 PL_{14} 2 7.9 142°.79 1°.2/ 8.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.17	+ 8 29.2	1.795	2.576	16.0	20.7
1 12	9 45.63	+ 9 4.3	1.716	2.584	12.6	20.5
1 22	9 38.61	+ 9 56.6	1.658	2.593	8.5	20.2
2 1	9 29.73	+11 2.3	1.626	2.601	4.0	20.0
2 11	9 20.01	+12 15.1	1.623	2.608	1.6	19.8
2 21	9 10.59	+13 27.9	1.649	2.615	5.9	20.1
3 2	9 2.59	+14 34.2	1.703	2.621	10.2	20.4
3 12	8 56.86	+15 29.2	1.782	2.627	13.9	20.6

444324 2005 WB_{30} 2 7.9 93°.98 0°.3/ 7.8 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.38	+13 46.4	1.533	2.331	17.5	22.2
1 12	9 49.79	+14 11.1	1.474	2.355	13.5	22.0
1 22	9 41.32	+14 48.3	1.436	2.379	8.7	21.8
2 1	9 30.81	+15 32.7	1.424	2.402	3.6	21.5
2 11	9 19.58	+16 17.3	1.440	2.425	1.7	21.4
2 21	9 9.01	+16 55.9	1.484	2.447	6.7	21.8
3 2	9 0.37	+17 24.2	1.555	2.469	11.3	22.1
3 12	8 54.48	+17 40.4	1.649	2.489	15.0	22.4

76032 2000 DS_{46} 2 7.9 41°.89 0°.6/ 8.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.78	+11 39.0	2.013	2.803	14.2	19.9
1 12	9 42.79	+11 54.8	1.931	2.807	11.0	19.7
1 22	9 36.62	+12 22.3	1.872	2.811	7.3	19.4
2 1	9 28.87	+12 58.4	1.839	2.816	3.2	19.2
2 11	9 20.40	+13 38.6	1.835	2.820	1.3	19.0
2 21	9 12.21	+14 17.9	1.860	2.825	5.4	19.3
3 2	9 5.24	+14 52.3	1.912	2.830	9.2	19.6
3 12	9 0.24	+15 18.5	1.989	2.835	12.6	19.8

338482 2003 HH_{4} 2 7.9 341°.11 8°.3/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.32	+35 59.2	1.840	2.657	14.2	19.8
1 12	9 46.29	+37 3.2	1.765	2.645	11.7	19.6
1 22	9 39.31	+38 1.1	1.713	2.634	9.4	19.4
2 1	9 30.09	+38 43.7	1.686	2.623	8.3	19.3
2 11	9 19.85	+39 2.9	1.685	2.613	9.2	19.3
2 21	9 10.04	+38 54.7	1.709	2.604	11.4	19.4
3 2	9 2.00	+38 19.4	1.756	2.596	14.1	19.6
3 12	8 56.70	+37 21.0	1.823	2.589	16.8	19.8

415940 2001 WC_{21} 2 7.9 121°.16 2°.3/ 9.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 50.10	+ 6 40.0	2.225	2.984	13.9	22.0
1 12	9 44.98	+ 6 44.7	2.148	3.001	11.0	21.8
1 22	9 37.87	+ 7 2.8	2.093	3.018	7.7	21.7
2 1	9 29.34	+ 7 32.4	2.066	3.034	4.2	21.5
2 11	9 20.22	+ 8 10.2	2.068	3.049	2.3	21.4
2 21	9 11.42	+ 8 51.7	2.100	3.064	5.0	21.6
3 2	9 3.80	+ 9 32.8	2.162	3.079	8.4	21.8
3 12	8 58.03	+10 9.6	2.249	3.093	11.4	22.0

466278 2013 PT 2 7.9 116°.19 3°.9/10.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.54	+ 3 8.4	1.984	2.742	15.5	21.9
1 12	9 43.39	+ 2 57.9	1.898	2.745	12.5	21.7
1 22	9 37.05	+ 3 4.4	1.832	2.748	9.2	21.5
2 1	9 29.07	+ 3 27.5	1.792	2.752	5.7	21.3
2 11	9 20.32	+ 4 4.5	1.780	2.755	3.9	21.2
2 21	9 11.81	+ 4 51.0	1.796	2.758	5.9	21.3
3 2	9 4.51	+ 5 41.5	1.840	2.761	9.3	21.5
3 12	8 59.18	+ 6 30.6	1.909	2.764	12.6	21.8

83541 2001 SP_{164} 2 7.9 163°.70 3°.5/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 44.87	+ 0 36.3	2.821	3.548	12.0	19.5
1 12	9 40.70	+ 0 38.5	2.726	3.552	9.8	19.4
1 22	9 34.97	+ 0 54.8	2.654	3.556	7.4	19.2
2 1	9 28.13	+ 1 24.7	2.609	3.559	4.9	19.1
2 11	9 20.76	+ 2 6.1	2.593	3.562	3.5	19.0
2 21	9 13.54	+ 2 55.6	2.607	3.564	4.7	19.0
3 2	9 7.12	+ 3 49.3	2.651	3.567	7.1	19.2
3 12	9 2.05	+ 4 43.1	2.722	3.569	9.6	19.4

331960 2004 VV_{84} 2 7.9 163°.37 4°.9/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.68	− 1 26.5	2.455	3.174	13.8	21.1
1 12	9 43.08	− 1 47.7	2.362	3.178	11.5	21.0
1 22	9 36.64	− 1 52.9	2.291	3.182	8.9	20.8
2 1	9 28.85	− 1 41.4	2.245	3.186	6.3	20.7
2 11	9 20.44	− 1 14.7	2.229	3.189	4.9	20.6
2 21	9 12.19	− 0 35.7	2.241	3.191	5.9	20.6
3 2	9 4.91	+ 0 11.3	2.282	3.194	8.3	20.8
3 12	8 59.24	+ 1 1.3	2.349	3.195	10.9	21.0

282657 2005 UW_{312} 2 7.9 179°.86 1°.8/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.33	+ 8 53.6	1.887	2.659	15.6	21.5
1 12	9 48.02	+ 9 0.2	1.798	2.661	12.4	21.2
1 22	9 40.17	+ 9 21.0	1.730	2.662	8.5	21.0
2 1	9 30.41	+ 9 53.8	1.690	2.663	4.2	20.7
2 11	9 19.73	+10 34.3	1.678	2.662	2.0	20.6
2 21	9 9.30	+11 17.1	1.696	2.661	5.9	20.8
3 2	9 0.26	+11 57.3	1.743	2.659	10.1	21.1
3 12	8 53.49	+12 30.9	1.814	2.656	13.8	21.3

421961 2014 QS_{276} 2 7.9 64°.61 1°.2/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 48.57	+14 1.3	1.515	2.327	17.0	20.3
1 12	9 44.81	+14 58.3	1.449	2.339	13.1	20.1
1 22	9 38.26	+16 10.4	1.404	2.351	8.4	19.9
2 1	9 29.63	+17 30.6	1.384	2.363	3.4	19.6
2 11	9 20.10	+18 49.9	1.392	2.376	2.4	19.6
2 21	9 11.04	+19 59.9	1.428	2.389	7.2	19.9
3 2	9 3.67	+20 54.6	1.489	2.401	11.7	20.2
3 12	8 58.92	+21 31.4	1.573	2.414	15.6	20.5

114649 Jeanneacker 2 7.9 152°.37 2°.8/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.37	+22 26.0	2.648	3.449	10.8	20.0
1 12	9 42.07	+23 21.2	2.568	3.453	8.3	19.8
1 22	9 35.98	+24 20.1	2.513	3.456	5.5	19.6
2 1	9 28.57	+25 17.5	2.487	3.459	3.1	19.5
2 11	9 20.58	+26 8.5	2.492	3.462	3.5	19.5
2 21	9 12.79	+26 48.9	2.526	3.465	6.0	19.7
3 2	9 5.97	+27 16.3	2.588	3.468	8.8	19.9
3 12	9 0.76	+27 30.1	2.675	3.470	11.2	20.0

93884 2000 WZ_{130} 2 7.9 190°.26 3°.3/ 5.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.80	+22 49.2	2.328	3.129	12.1	20.4
1 12	9 44.99	+23 44.4	2.244	3.128	9.3	20.3
1 22	9 38.04	+24 43.7	2.185	3.127	6.2	20.1
2 1	9 29.48	+25 41.2	2.154	3.125	3.6	19.9
2 11	9 20.18	+26 31.0	2.153	3.123	4.0	19.9
2 21	9 11.09	+27 8.2	2.181	3.120	6.8	20.1
3 2	9 3.16	+27 30.4	2.237	3.117	9.9	20.3
3 12	8 57.16	+27 37.2	2.318	3.113	12.7	20.4

432557 2010 JR_{77} 2 7.9 57°.44 2°.4/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.33	+18 54.0	2.220	3.026	12.5	20.7
1 12	9 41.58	+20 1.8	2.145	3.033	9.5	20.5
1 22	9 35.80	+21 17.2	2.094	3.040	6.1	20.3
2 1	9 28.54	+22 34.2	2.071	3.047	3.0	20.1
2 11	9 20.61	+23 46.2	2.079	3.055	3.2	20.1
2 21	9 12.92	+24 47.6	2.115	3.063	6.4	20.3
3 2	9 6.35	+25 34.5	2.179	3.070	9.6	20.6
3 12	9 1.62	+26 5.5	2.267	3.078	12.5	20.8

339550 2005 JV_{94} 2 7.9 175°.89 2°.0/ 6.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.30	+19 38.2	2.499	3.296	11.5	21.6
1 12	9 42.86	+20 16.9	2.413	3.296	8.8	21.4
1 22	9 36.53	+21 0.7	2.353	3.297	5.7	21.2
2 1	9 28.82	+21 45.3	2.321	3.298	2.7	21.0
2 11	9 20.49	+22 25.9	2.319	3.298	2.6	21.0
2 21	9 12.37	+22 58.5	2.348	3.298	5.6	21.2
3 2	9 5.28	+23 20.4	2.404	3.298	8.7	21.4
3 12	8 59.87	+23 30.6	2.486	3.298	11.5	21.6

359631 2011 QU_{42} 2 7.9 33°.39 6°.4/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.15	+ 1 12.2	1.193	1.983	21.9	20.6
1 12	9 44.22	+ 0 38.2	1.132	1.995	18.0	20.4
1 22	9 38.11	+ 0 31.5	1.088	2.009	13.5	20.2
2 1	9 29.62	+ 0 53.3	1.064	2.023	8.9	20.0
2 11	9 20.14	+ 1 40.2	1.065	2.038	6.4	19.9
2 21	9 11.22	+ 2 44.4	1.089	2.054	8.4	20.0
3 2	9 4.29	+ 3 56.1	1.138	2.070	12.6	20.3
3 12	9 0.33	+ 5 5.5	1.207	2.087	16.7	20.6

168096 2006 DU_{141} 2 7.9 225°.66 1°.0/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.34	+14 55.1	2.024	2.814	14.1	21.2
1 12	9 46.54	+15 36.4	1.924	2.802	10.9	20.9
1 22	9 39.29	+16 29.2	1.847	2.790	7.1	20.7
2 1	9 30.10	+17 28.8	1.798	2.777	3.0	20.4
2 11	9 19.89	+18 29.0	1.779	2.763	2.0	20.3
2 21	9 9.76	+19 23.5	1.790	2.748	6.3	20.5
3 2	9 0.85	+20 7.5	1.828	2.733	10.4	20.8
3 12	8 54.08	+20 38.1	1.891	2.716	14.0	21.0

523763 2014 WZ_{509} 2 7.9 193°.97 0°.3/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 25.66	− 1 5.2	43.239	43.933	0.9	22.0
1 12	9 25.04	− 1 4.7	43.134	43.933	0.8	22.0
1 22	9 24.35	− 1 3.2	43.055	43.932	0.6	22.0
2 1	9 23.60	− 1 0.8	43.003	43.932	0.4	22.0
2 11	9 22.84	− 0 57.6	42.980	43.931	0.3	22.0
2 21	9 22.09	− 0 53.8	42.987	43.931	0.4	22.0
3 2	9 21.37	− 0 49.5	43.023	43.930	0.5	22.0
3 12	9 20.72	− 0 44.9	43.087	43.930	0.7	22.0

294286 2007 UP_{115} 2 7.9 79°.98 0°.3/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.81	+12 37.3	2.297	3.082	12.8	21.1
1 12	9 42.51	+12 53.9	2.217	3.091	9.9	20.9
1 22	9 36.31	+13 19.9	2.161	3.100	6.5	20.7
2 1	9 28.73	+13 52.3	2.132	3.109	2.8	20.5
2 11	9 20.57	+14 27.3	2.133	3.118	1.1	20.4
2 21	9 12.68	+15 0.7	2.163	3.127	4.9	20.7
3 2	9 5.88	+15 29.0	2.222	3.136	8.3	20.9
3 12	9 0.82	+15 50.0	2.306	3.145	11.4	21.1

162994 2001 SN_{92} 2 7.9 79°.81 3°.3/10.9 18

1 2	9 44.36	+ 2 18.8	2.309	3.058	13.8	20.0
1 12	9 40.66	+ 2 31.5	2.220	3.063	11.1	19.9
1 22	9 35.13	+ 3 0.8	2.154	3.069	8.1	19.7
2 1	9 28.26	+ 3 45.6	2.114	3.074	5.0	19.5
2 11	9 20.77	+ 4 42.5	2.103	3.079	3.3	19.4
2 21	9 13.47	+ 5 47.0	2.121	3.084	5.0	19.5
3 2	9 7.16	+ 6 53.5	2.168	3.089	8.1	19.7
3 12	9 2.49	+ 7 57.1	2.241	3.095	11.1	19.9

50627 2000 EZ_{68} 2 7.9 2°.01 0°.0/ 7.7 18

1 2	9 47.29	+12 47.0	1.550	2.359	16.8	19.6
1 12	9 43.90	+13 14.4	1.471	2.358	13.1	19.4
1 22	9 37.74	+13 56.6	1.413	2.358	8.6	19.1
2 1	9 29.48	+14 49.4	1.379	2.358	3.6	18.8
2 11	9 20.22	+15 45.6	1.373	2.358	1.6	18.7
2 21	9 11.27	+16 38.2	1.394	2.359	6.8	19.0
3 2	9 3.91	+17 21.3	1.441	2.361	11.5	19.3
3 12	8 59.08	+17 51.3	1.510	2.362	15.5	19.5

252430 2001 TP_{140} 2 7.9 52°.01 0°.2/ 8.1 18

1 2	9 47.44	+10 53.9	1.548	2.352	17.1	20.2
1 12	9 43.78	+11 37.8	1.486	2.370	13.2	20.0
1 22	9 37.49	+12 38.3	1.445	2.388	8.7	19.8
2 1	9 29.30	+13 50.2	1.428	2.407	3.7	19.5
2 11	9 20.34	+15 5.5	1.440	2.425	1.5	19.4
2 21	9 11.86	+16 16.2	1.479	2.445	6.4	19.8
3 2	9 5.03	+17 16.0	1.545	2.464	10.9	20.1
3 12	9 0.64	+18 1.0	1.633	2.484	14.6	20.4

265803 2005 XE_{5} 2 7.9 105°.10 0°.5/ 7.5 18

1 2	9 48.98	+13 34.7	2.071	2.861	13.8	21.6
1 12	9 44.35	+14 17.9	2.000	2.877	10.6	21.4
1 22	9 37.58	+15 12.0	1.952	2.894	6.9	21.2
2 1	9 29.28	+16 12.1	1.932	2.910	2.8	20.9
2 11	9 20.34	+17 12.4	1.941	2.926	1.5	20.9
2 21	9 11.75	+18 7.4	1.980	2.941	5.6	21.2
3 2	9 4.44	+18 52.8	2.048	2.956	9.2	21.4
3 12	8 59.10	+19 26.2	2.140	2.971	12.4	21.7

523767 2014 WH_{510} 2 7.9 5°.01 0°.5/12.9 18

1 2	9 26.25	− 1 16.7	32.869	33.563	1.2	22.0
1 12	9 25.50	− 1 16.9	32.770	33.568	1.0	22.0
1 22	9 24.66	− 1 15.8	32.696	33.573	0.8	21.9
2 1	9 23.74	− 1 13.5	32.650	33.578	0.6	21.9
2 11	9 22.81	− 1 10.2	32.633	33.583	0.5	21.9
2 21	9 21.88	− 1 6.1	32.645	33.588	0.5	21.9
3 2	9 21.00	− 1 1.3	32.687	33.593	0.7	21.9
3 12	9 20.21	− 0 56.1	32.756	33.599	0.9	22.0

243819 2000 SO_{335} 2 7.9 208°.45 4°.6/11.4 17

1 2	9 50.43	+ 0 21.8	2.135	2.868	15.2	21.7
1 12	9 45.60	+ 0 11.9	2.032	2.861	12.6	21.5
1 22	9 38.55	+ 0 20.1	1.950	2.854	9.5	21.3
2 1	9 29.77	+ 0 46.7	1.894	2.845	6.4	21.0
2 11	9 20.09	+ 1 29.7	1.867	2.836	4.6	20.9
2 21	9 10.49	+ 2 25.0	1.869	2.826	6.2	21.0
3 2	9 1.98	+ 3 27.0	1.900	2.816	9.4	21.2
3 12	8 55.39	+ 4 29.7	1.956	2.804	12.7	21.3

286690 2002 FJ_{12} 2 7.9 212°.82 4°.2/ 4.6 17

1 2	9 52.70	+27 11.3	2.379	3.178	12.0	20.9
1 12	9 47.22	+27 52.0	2.292	3.173	9.3	20.7
1 22	9 39.50	+28 32.8	2.230	3.167	6.5	20.5
2 1	9 30.11	+29 7.9	2.196	3.160	4.4	20.4
2 11	9 19.97	+29 31.7	2.192	3.153	4.8	20.4
2 21	9 10.08	+29 40.6	2.217	3.146	7.3	20.6
3 2	9 1.45	+29 33.4	2.270	3.139	10.2	20.7
3 12	8 54.84	+29 11.2	2.346	3.131	12.9	20.9

284679 2008 RA_{103} 2 7.9 43°.95 2°.4/ 6.8 18

1 2	9 53.86	+19 23.1	1.232	2.059	19.2	20.7
1 12	9 49.46	+19 39.7	1.172	2.070	14.8	20.5
1 22	9 41.55	+20 4.6	1.132	2.082	9.6	20.2
2 1	9 31.06	+20 30.8	1.115	2.094	4.3	19.9
2 11	9 19.58	+20 50.2	1.125	2.107	3.5	19.9
2 21	9 8.88	+20 57.2	1.160	2.120	8.6	20.2
3 2	9 0.51	+20 49.6	1.218	2.134	13.5	20.6
3 12	8 55.43	+20 27.9	1.298	2.148	17.7	20.9

366879 2005 SM_{226} 2 7.9 114°.74 1°.6/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 50.57	+17 43.6	1.915	2.717	14.4	21.9
1 12	9 45.85	+18 13.5	1.838	2.723	11.0	21.7
1 22	9 38.71	+18 51.0	1.785	2.730	7.1	21.5
2 1	9 29.80	+19 31.2	1.758	2.736	3.1	21.2
2 11	9 20.12	+20 8.3	1.760	2.742	2.4	21.2
2 21	9 10.80	+20 37.2	1.791	2.748	6.4	21.5
3 2	9 2.91	+20 54.9	1.849	2.754	10.3	21.7
3 12	8 57.24	+21 0.2	1.931	2.760	13.6	21.9

422770 2001 UW_{115} 2 7.9 100°.96 4°.3/ 3.9 18

1 2	9 49.97	+28 6.8	2.595	3.396	11.0	21.5
1 12	9 44.79	+29 2.7	2.534	3.415	8.5	21.4
1 22	9 37.71	+29 57.6	2.499	3.434	6.0	21.2
2 1	9 29.30	+30 45.8	2.493	3.452	4.4	21.2
2 11	9 20.38	+31 22.3	2.516	3.471	4.9	21.2
2 21	9 11.82	+31 44.1	2.569	3.489	7.0	21.4
3 2	9 4.45	+31 50.0	2.649	3.506	9.4	21.6
3 12	8 58.87	+31 41.2	2.753	3.524	11.6	21.7

327010 2004 RU_{92} 2 7.9 97°.89 3°.3/10.5 18

1 2	9 49.64	+ 4 1.4	2.174	2.925	14.5	21.3
1 12	9 44.65	+ 3 55.2	2.101	2.946	11.6	21.2
1 22	9 37.68	+ 4 4.1	2.051	2.967	8.3	21.0
2 1	9 29.30	+ 4 26.9	2.027	2.988	5.0	20.8
2 11	9 20.38	+ 5 0.6	2.032	3.008	3.3	20.8
2 21	9 11.81	+ 5 41.2	2.066	3.028	5.3	20.9
3 2	9 4.45	+ 6 24.0	2.130	3.048	8.4	21.1
3 12	8 58.93	+ 7 4.7	2.219	3.067	11.4	21.4

213641 2002 RP_{67} 2 7.9 78°.15 0°.5/ 8.3 18

1 2	9 49.85	+13 14.8	2.168	2.952	13.5	19.9
1 12	9 44.90	+13 12.4	2.090	2.963	10.4	19.7
1 22	9 37.89	+13 18.5	2.037	2.975	6.9	19.5
2 1	9 29.41	+13 30.5	2.010	2.987	3.0	19.3
2 11	9 20.33	+13 44.9	2.013	2.999	1.2	19.2
2 21	9 11.61	+13 58.4	2.046	3.011	5.1	19.5
3 2	9 4.12	+14 8.3	2.108	3.022	8.7	19.7
3 12	8 58.55	+14 12.6	2.194	3.034	11.8	19.9

326993 2004 PG_{88} 2 7.9 227°.54 2°.5/10.0 17

1 2	9 48.00	+ 5 30.3	2.389	3.143	13.2	21.9
1 12	9 43.53	+ 5 35.5	2.283	3.132	10.6	21.7
1 22	9 37.09	+ 5 54.5	2.199	3.121	7.6	21.5
2 1	9 29.14	+ 6 26.2	2.143	3.109	4.3	21.3
2 11	9 20.41	+ 7 7.7	2.116	3.096	2.6	21.2
2 21	9 11.76	+ 7 55.0	2.119	3.083	5.0	21.3
3 2	9 4.04	+ 8 43.7	2.152	3.069	8.4	21.5
3 12	8 58.00	+ 9 29.5	2.211	3.055	11.6	21.7

16276 2000 JX_{61} 2 7.9 183°.84 4°.5/11.6 18 R

1 2	9 48.49	− 0 4.8	2.375	3.102	14.0	18.9
1 12	9 43.81	− 0 17.3	2.278	3.103	11.6	18.8
1 22	9 37.21	− 0 13.6	2.203	3.102	8.8	18.6
2 1	9 29.17	+ 0 6.6	2.154	3.102	6.0	18.4
2 11	9 20.42	+ 0 41.4	2.134	3.101	4.5	18.3
2 21	9 11.82	+ 1 27.5	2.144	3.099	5.7	18.4
3 2	9 4.21	+ 2 20.2	2.182	3.096	8.4	18.5
3 12	8 58.29	+ 3 14.2	2.247	3.094	11.3	18.7

182532 2001 TU_{23} 2 7.9 169°.88 0°.5/ 8.3 18

1 2	9 49.60	+11 58.7	2.114	2.896	13.8	21.0
1 12	9 44.90	+12 17.4	2.027	2.899	10.8	20.8
1 22	9 38.02	+12 47.2	1.963	2.901	7.1	20.6
2 1	9 29.52	+13 25.0	1.926	2.903	3.1	20.4
2 11	9 20.28	+14 6.2	1.919	2.904	1.2	20.2
2 21	9 11.27	+14 46.1	1.942	2.905	5.3	20.5
3 2	9 3.47	+15 20.5	1.993	2.906	9.2	20.7
3 12	8 57.62	+15 46.6	2.068	2.906	12.5	20.9

60126 1999 TU_{251} 2 7.9 116°.71 2°.3/ 9.7 18

1 2	9 47.08	+ 6 58.4	2.033	2.805	14.6	19.9
1 12	9 43.03	+ 7 5.3	1.945	2.807	11.6	19.7
1 22	9 36.84	+ 7 27.0	1.880	2.809	8.1	19.5
2 1	9 29.04	+ 8 1.7	1.841	2.811	4.4	19.3
2 11	9 20.50	+ 8 45.8	1.831	2.813	2.3	19.1
2 21	9 12.18	+ 9 34.2	1.849	2.815	5.3	19.3
3 2	9 5.03	+10 21.8	1.896	2.817	9.1	19.5
3 12	8 59.82	+11 4.4	1.967	2.819	12.5	19.8

306613 2000 QX_{1} 2 7.9 75°.41 6°.2/11.9 18

1 2	9 59.79	− 1 33.6	2.105	2.809	16.2	19.2
1 12	9 52.21	− 2 42.8	2.045	2.850	13.5	19.1
1 22	9 42.45	− 3 34.8	2.009	2.890	10.4	19.0
2 1	9 31.25	− 4 7.6	1.999	2.930	7.6	18.9
2 11	9 19.61	− 4 21.5	2.019	2.969	6.2	18.9
2 21	9 8.56	− 4 18.7	2.069	3.008	7.2	19.0
3 2	8 59.05	− 4 3.4	2.149	3.045	9.5	19.2
3 12	8 51.71	− 3 40.8	2.253	3.082	11.9	19.4

19498 1998 KG_{38} 2 7.9 133°.23 0°.8/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 47.84	+10 33.7	2.195	2.974	13.5	18.5
1 12	9 43.44	+10 56.0	2.111	2.981	10.5	18.3
1 22	9 37.00	+11 30.1	2.051	2.988	7.0	18.1
2 1	9 29.09	+12 13.2	2.019	2.994	3.2	17.8
2 11	9 20.51	+13 0.7	2.015	3.001	1.3	17.7
2 21	9 12.18	+13 47.8	2.042	3.007	5.0	18.0
3 2	9 4.99	+14 30.2	2.097	3.013	8.7	18.2
3 12	8 59.62	+15 4.7	2.178	3.018	11.9	18.4

320349 2007 TK_{186} 2 7.9 111°.41 2°.7/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 45.37	+ 3 40.8	2.473	3.223	12.9	21.2
1 12	9 41.28	+ 3 56.3	2.389	3.234	10.4	21.0
1 22	9 35.47	+ 4 26.6	2.328	3.245	7.4	20.8
2 1	9 28.42	+ 5 10.0	2.293	3.256	4.4	20.7
2 11	9 20.82	+ 6 3.3	2.288	3.267	2.7	20.6
2 21	9 13.44	+ 7 2.0	2.314	3.277	4.6	20.7
3 2	9 7.01	+ 8 1.5	2.368	3.287	7.6	20.9
3 12	9 2.13	+ 8 57.4	2.449	3.297	10.4	21.1

168020 2005 JJ_{21} 2 7.9 263°.13 0°.2/ 8.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 46.61	+12 52.3	2.355	3.139	12.5	20.9
1 12	9 42.50	+13 10.3	2.256	3.130	9.7	20.7
1 22	9 36.42	+13 37.8	2.181	3.120	6.4	20.5
2 1	9 28.88	+14 12.1	2.133	3.111	2.8	20.2
2 11	9 20.60	+14 49.3	2.115	3.101	1.1	20.1
2 21	9 12.45	+15 25.1	2.127	3.091	5.0	20.3
3 2	9 5.29	+15 55.8	2.168	3.081	8.6	20.5
3 12	8 59.83	+16 19.0	2.234	3.071	11.7	20.7

86388 2000 AT_{60} 2 7.9 97°.72 1°.7/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.26	+15 17.5	1.447	2.258	17.7	19.5
1 12	9 47.81	+16 12.2	1.382	2.272	13.6	19.3
1 22	9 40.32	+17 20.9	1.339	2.286	8.8	19.0
2 1	9 30.57	+18 36.1	1.321	2.300	3.6	18.8
2 11	9 19.88	+19 48.4	1.330	2.313	2.8	18.7
2 21	9 9.73	+20 49.4	1.367	2.327	7.7	19.1
3 2	9 1.47	+21 33.8	1.430	2.340	12.3	19.4
3 12	8 56.06	+21 59.8	1.514	2.352	16.3	19.6

185915 2000 ST_{210} 2 7.9 167°.16 5°.1/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.37	+29 37.5	2.449	3.249	11.6	20.7
1 12	9 46.95	+30 45.2	2.375	3.253	9.1	20.6
1 22	9 39.32	+31 52.0	2.327	3.258	6.7	20.4
2 1	9 30.07	+32 51.0	2.308	3.261	5.2	20.3
2 11	9 20.10	+33 36.0	2.318	3.264	5.8	20.4
2 21	9 10.41	+34 3.2	2.357	3.267	8.0	20.5
3 2	9 1.98	+34 11.1	2.423	3.269	10.5	20.7
3 12	8 55.57	+34 1.4	2.512	3.270	12.9	20.8

359175 2009 CW_{20} 2 7.9 300°.57 1°.2/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 47.21	+ 9 47.9	1.496	2.299	17.6	21.1
1 12	9 44.11	+10 8.7	1.404	2.286	13.9	20.8
1 22	9 38.11	+10 48.3	1.332	2.274	9.5	20.5
2 1	9 29.77	+11 43.7	1.285	2.261	4.4	20.2
2 11	9 20.18	+12 48.7	1.264	2.249	1.7	20.0
2 21	9 10.70	+13 55.2	1.270	2.237	6.9	20.3
3 2	9 2.76	+14 55.6	1.301	2.226	12.0	20.5
3 12	8 57.46	+15 44.0	1.354	2.214	16.5	20.8

145812 1998 SX_{115} 2 7.9 350°.72 0°.8/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.85	+15 31.3	1.599	2.408	16.4	18.8
1 12	9 45.83	+15 49.1	1.519	2.407	12.7	18.6
1 22	9 39.01	+16 17.8	1.459	2.405	8.3	18.3
2 1	9 30.05	+16 52.9	1.425	2.404	3.4	18.0
2 11	9 20.10	+17 28.1	1.419	2.404	2.0	17.9
2 21	9 10.48	+17 57.5	1.440	2.403	6.9	18.2
3 2	9 2.48	+18 17.0	1.487	2.403	11.5	18.5
3 12	8 57.06	+18 24.5	1.556	2.403	15.5	18.7

318364 2004 UK_{6} 2 7.9 131°.28 4°.2/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.35	+26 36.7	2.406	3.207	11.8	21.1
1 12	9 46.06	+27 37.5	2.339	3.220	9.1	20.9
1 22	9 38.67	+28 38.8	2.296	3.233	6.3	20.7
2 1	9 29.78	+29 34.4	2.282	3.245	4.4	20.6
2 11	9 20.26	+30 18.4	2.298	3.257	4.9	20.7
2 21	9 11.09	+30 47.0	2.344	3.269	7.3	20.9
3 2	9 3.17	+30 58.8	2.417	3.280	9.9	21.0
3 12	8 57.19	+30 54.5	2.513	3.290	12.4	21.2

405927 2006 OR_{21} 2 7.9 115°.86 0°.1/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 51.53	+12 8.8	2.081	2.861	14.1	22.9
1 12	9 46.25	+12 40.8	2.010	2.881	10.9	22.7
1 22	9 38.81	+13 23.9	1.963	2.901	7.1	22.5
2 1	9 29.83	+14 14.3	1.943	2.921	3.0	22.3
2 11	9 20.25	+15 6.4	1.954	2.939	1.2	22.2
2 21	9 11.05	+15 55.1	1.995	2.957	5.3	22.5
3 2	9 3.17	+16 36.4	2.064	2.975	9.1	22.7
3 12	8 57.31	+17 7.5	2.159	2.991	12.2	23.0

103941 2000 DW_{69} 2 7.9 296°.93 3°.7/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 53.25	+23 11.2	1.648	2.463	15.7	19.7
1 12	9 48.77	+23 34.9	1.550	2.442	12.3	19.4
1 22	9 41.18	+24 2.7	1.474	2.420	8.3	19.1
2 1	9 31.07	+24 27.9	1.424	2.399	4.5	18.9
2 11	9 19.63	+24 43.3	1.401	2.377	4.5	18.8
2 21	9 8.34	+24 43.4	1.405	2.356	8.6	19.0
3 2	8 58.71	+24 25.9	1.435	2.335	13.0	19.2
3 12	8 51.88	+23 51.8	1.487	2.314	17.1	19.4

141705 2002 LA_{5} 2 7.9 213°.00 0°.9/ 8.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 52.06	+11 27.8	2.068	2.845	14.3	21.0
1 12	9 46.95	+11 34.5	1.970	2.838	11.2	20.7
1 22	9 39.49	+11 52.3	1.895	2.831	7.5	20.5
2 1	9 30.22	+12 18.7	1.847	2.823	3.4	20.2
2 11	9 20.04	+12 49.8	1.829	2.814	1.4	20.0
2 21	9 10.01	+13 20.9	1.840	2.804	5.5	20.3
3 2	9 1.21	+13 48.2	1.880	2.794	9.6	20.5
3 12	8 54.47	+14 8.6	1.945	2.784	13.2	20.7

229020 2003 YU_{68} 2 7.9 137°.30 1°.1/ 8.7 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.91	+ 9 59.5	1.627	2.412	17.2	21.0
1 12	9 48.75	+10 20.1	1.552	2.424	13.5	20.8
1 22	9 40.80	+10 56.9	1.498	2.436	9.0	20.5
2 1	9 30.77	+11 45.9	1.471	2.446	4.1	20.3
2 11	9 19.83	+12 41.0	1.471	2.456	1.6	20.1
2 21	9 9.31	+13 35.3	1.501	2.466	6.4	20.4
3 2	9 0.47	+14 23.0	1.557	2.475	10.9	20.7
3 12	8 54.23	+15 0.2	1.637	2.482	14.9	21.0

387568 2001 SX_{263} 2 7.9 81°.56 0°.6/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.15	+14 24.9	2.384	3.155	12.8	20.9
1 12	9 48.61	+14 0.9	2.311	3.177	9.9	20.8
1 22	9 40.13	+13 42.6	2.264	3.199	6.5	20.6
2 1	9 30.32	+13 28.1	2.245	3.221	2.9	20.4
2 11	9 20.07	+13 15.3	2.258	3.243	1.2	20.3
2 21	9 10.27	+13 2.2	2.302	3.265	4.7	20.6
3 2	9 1.77	+12 47.4	2.376	3.286	8.1	20.8
3 12	8 55.16	+12 29.9	2.477	3.307	10.9	21.1

56965 2000 SJ_{83} 2 7.9 281°.32 4°.8/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.48	+29 9.4	2.399	3.205	11.7	19.4
1 12	9 44.79	+29 58.4	2.318	3.201	9.1	19.3
1 22	9 37.95	+30 46.4	2.262	3.196	6.6	19.1
2 1	9 29.53	+31 27.4	2.234	3.192	4.9	19.0
2 11	9 20.39	+31 55.9	2.234	3.188	5.5	19.0
2 21	9 11.52	+32 8.2	2.263	3.183	7.7	19.1
3 2	9 3.86	+32 3.2	2.319	3.179	10.4	19.3
3 12	8 58.15	+31 42.0	2.397	3.175	12.9	19.5

191597 2004 FX_{125} 2 7.9 252°.59 2°.4/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 49.84	+ 7 22.5	1.520	2.309	18.0	21.0
1 12	9 46.08	+ 7 31.4	1.428	2.300	14.4	20.7
1 22	9 39.38	+ 8 0.2	1.356	2.290	10.1	20.4
2 1	9 30.32	+ 8 47.0	1.308	2.280	5.2	20.1
2 11	9 19.99	+ 9 46.6	1.287	2.270	2.6	19.9
2 21	9 9.80	+10 51.7	1.293	2.260	6.8	20.1
3 2	9 1.15	+11 54.5	1.325	2.250	11.8	20.4
3 12	8 55.17	+12 48.6	1.379	2.239	16.3	20.6

193798 2001 PF_{8} 2 7.9 208°.73 3°.9/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.00	+22 53.8	1.904	2.707	14.4	21.6
1 12	9 49.61	+23 52.3	1.816	2.700	11.1	21.3
1 22	9 41.44	+24 56.5	1.751	2.693	7.5	21.1
2 1	9 31.11	+25 59.0	1.714	2.685	4.4	20.9
2 11	9 19.68	+26 51.5	1.706	2.676	4.8	20.9
2 21	9 8.47	+27 28.0	1.727	2.667	8.2	21.1
3 2	8 58.76	+27 45.4	1.774	2.656	12.0	21.3
3 12	8 51.55	+27 44.1	1.845	2.645	15.3	21.5

497982 2007 CJ_{79} 2 7.9 313°.03 7°.8/ 3.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 55.26	+32 23.1	1.583	2.402	16.0	20.8
1 12	9 50.82	+33 10.6	1.487	2.373	13.0	20.5
1 22	9 42.81	+33 55.4	1.412	2.344	9.9	20.2
2 1	9 31.85	+34 26.9	1.362	2.316	7.9	20.1
2 11	9 19.32	+34 35.2	1.337	2.288	8.7	20.0
2 21	9 6.97	+34 14.2	1.338	2.260	11.8	20.1
3 2	8 56.60	+33 23.8	1.363	2.233	15.6	20.3
3 12	8 49.52	+32 8.5	1.407	2.206	19.3	20.4

128699 2004 RX_{99} 2 7.9 217°.12 0°.6/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 2	9 53.45	+12 44.9	1.739	2.528	16.1	20.5
1 12	9 48.46	+12 48.4	1.647	2.523	12.6	20.2
1 22	9 40.71	+13 3.6	1.577	2.517	8.4	20.0
2 1	9 30.80	+13 27.5	1.533	2.510	3.7	19.7
2 11	9 19.83	+13 55.3	1.518	2.503	1.5	19.5
2 21	9 9.07	+14 21.8	1.531	2.496	6.4	19.8
3 2	8 59.82	+14 42.7	1.571	2.488	11.0	20.0
3 12	8 53.05	+14 55.4	1.636	2.479	15.0	20.3

350588 2001 QT_{44} 2 7.9 70°.73 0°.3/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 51.09	+ 5 14.3	1.367	2.154	19.8	19.7
1 12	9 46.85	+ 7 13.0	1.311	2.185	15.3	19.5
1 22	9 39.64	+ 9 39.9	1.277	2.216	10.1	19.3
2 1	9 30.29	+12 25.3	1.269	2.246	4.3	19.1
2 11	9 20.10	+15 14.0	1.291	2.277	1.6	19.0
2 21	9 10.53	+17 50.9	1.343	2.307	7.2	19.4
3 2	9 2.89	+20 4.8	1.422	2.336	12.0	19.7
3 12	8 58.04	+21 50.3	1.524	2.365	16.0	20.1

372739 2010 AV_{48} 2 7.9 57°.51 0°.8/ 8.6 18

1 2	9 45.90	+ 8 36.5	1.849	2.635	15.4	20.2
1 12	9 42.24	+ 9 29.2	1.780	2.654	11.9	20.0
1 22	9 36.35	+10 38.7	1.735	2.673	7.9	19.8
2 1	9 28.87	+12 0.3	1.715	2.691	3.6	19.6
2 11	9 20.71	+13 27.1	1.725	2.710	1.3	19.4
2 21	9 12.92	+14 51.5	1.764	2.730	5.5	19.8
3 2	9 6.45	+16 7.0	1.830	2.749	9.5	20.0
3 12	9 2.04	+17 9.3	1.921	2.768	12.9	20.3

174401 2002 VJ_{62} 2 7.9 222°.33 7°.7/ 1.6 18

1 2	9 54.98	+34 31.0	2.025	2.830	13.6	19.8
1 12	9 49.72	+35 55.2	1.949	2.822	11.0	19.6
1 22	9 41.56	+37 15.9	1.897	2.815	8.8	19.4
2 1	9 31.16	+38 23.3	1.871	2.807	7.7	19.4
2 11	9 19.68	+39 9.0	1.873	2.799	8.6	19.4
2 21	9 8.50	+39 28.0	1.902	2.790	10.8	19.5
3 2	8 58.97	+39 19.8	1.955	2.781	13.5	19.7
3 12	8 52.09	+38 47.8	2.029	2.771	16.0	19.8

166672 2002 TM_{77} 2 7.9 82°.50 2°.1/ 6.3 18 R

1 2	9 50.83	+20 29.5	2.247	3.044	12.6	20.3
1 12	9 45.58	+20 58.3	2.183	3.065	9.6	20.2
1 22	9 38.30	+21 30.8	2.143	3.087	6.2	20.0
2 1	9 29.61	+22 2.5	2.132	3.108	3.0	19.8
2 11	9 20.41	+22 28.6	2.150	3.129	2.8	19.8
2 21	9 11.65	+22 45.7	2.198	3.149	5.9	20.1
3 2	9 4.19	+22 51.9	2.274	3.170	9.1	20.3
3 12	8 58.66	+22 47.0	2.375	3.190	11.9	20.5

88849 2001 SB_{205} 2 7.9 45°.61 2°.5/ 9.6 18

1 2	9 47.78	+ 6 24.0	1.361	2.159	19.3	19.7
1 12	9 44.56	+ 6 45.3	1.288	2.164	15.4	19.5
1 22	9 38.35	+ 7 29.9	1.233	2.170	10.6	19.2
2 1	9 29.84	+ 8 34.9	1.202	2.175	5.5	18.9
2 11	9 20.27	+ 9 53.2	1.198	2.182	2.6	18.8
2 21	9 11.07	+11 15.6	1.219	2.188	6.9	19.0
3 2	9 3.64	+12 32.9	1.266	2.195	11.9	19.3
3 12	8 58.98	+13 38.0	1.335	2.201	16.3	19.6

208174 2000 QZ_{26} 2 7.9 231°.94 0°.9/ 7.3 17

1 2	9 50.21	+17 56.1	2.797	3.578	10.8	20.8
1 12	9 44.93	+18 2.9	2.693	3.568	8.3	20.6
1 22	9 37.86	+18 13.8	2.616	3.556	5.4	20.4
2 1	9 29.47	+18 26.0	2.567	3.545	2.3	20.2
2 11	9 20.45	+18 36.4	2.549	3.533	1.5	20.1
2 21	9 11.56	+18 42.3	2.563	3.521	4.7	20.3
3 2	9 3.59	+18 41.9	2.607	3.508	7.8	20.5
3 12	8 57.18	+18 34.3	2.676	3.495	10.6	20.6

158849 2004 NH_{17} 2 7.9 98°.26 0°.4/ 8.3 18

1 2	9 52.27	+10 14.6	1.646	2.434	16.9	20.3
1 12	9 47.33	+11 1.0	1.582	2.457	13.1	20.1
1 22	9 39.76	+12 3.8	1.541	2.480	8.6	19.9
2 1	9 30.31	+13 17.7	1.526	2.503	3.7	19.7
2 11	9 20.11	+14 35.0	1.539	2.525	1.4	19.5
2 21	9 10.43	+15 47.7	1.582	2.546	6.2	19.9
3 2	9 2.42	+16 49.9	1.652	2.567	10.6	20.2
3 12	8 56.88	+17 37.8	1.745	2.587	14.3	20.5

70277 1999 RV_{109} 2 7.9 245°.66 0°.4/ 8.2 18

1 2	9 52.14	+13 24.0	1.774	2.567	15.7	19.2
1 12	9 47.43	+13 26.7	1.680	2.558	12.3	19.0
1 22	9 40.03	+13 40.3	1.608	2.549	8.2	18.7
2 1	9 30.53	+14 1.7	1.562	2.539	3.5	18.4
2 11	9 19.97	+14 26.2	1.544	2.530	1.4	18.3
2 21	9 9.59	+14 49.1	1.555	2.520	6.3	18.6
3 2	9 0.66	+15 6.3	1.593	2.510	10.8	18.8
3 12	8 54.14	+15 15.1	1.655	2.499	14.8	19.0

451009 2008 UA_{61} 2 7.9 61°.67 4°.3/ 5.8 18

1 2	9 54.64	+22 42.0	1.340	2.165	18.1	20.7
1 12	9 49.93	+23 24.9	1.282	2.178	13.9	20.4
1 22	9 41.83	+24 13.0	1.244	2.191	9.2	20.2
2 1	9 31.25	+24 57.3	1.230	2.204	5.0	20.0
2 11	9 19.72	+25 28.8	1.243	2.218	5.2	20.0
2 21	9 8.94	+25 41.8	1.282	2.232	9.3	20.3
3 2	9 0.40	+25 34.8	1.345	2.245	13.7	20.6
3 12	8 55.05	+25 9.7	1.428	2.259	17.4	20.9

278435 2007 RT_{281} 2 7.9 146°.99 4°.2/ 4.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.23	+26 41.8	2.483	3.286	11.4	20.6
1 12	9 44.47	+27 43.1	2.409	3.292	8.8	20.4
1 22	9 37.68	+28 45.3	2.360	3.297	6.2	20.2
2 1	9 29.41	+29 42.4	2.340	3.303	4.3	20.1
2 11	9 20.50	+30 28.6	2.350	3.308	4.9	20.2
2 21	9 11.86	+31 0.0	2.389	3.313	7.2	20.3
3 2	9 4.36	+31 14.8	2.455	3.317	9.8	20.5
3 12	8 58.69	+31 13.5	2.544	3.321	12.2	20.7

224367 2005 UK_{152} 2 7.9 95°.43 1°.2/ 8.8 18

1 2	9 48.87	+10 10.4	1.921	2.705	15.0	21.0
1 12	9 44.51	+10 22.6	1.842	2.713	11.7	20.8
1 22	9 37.85	+10 47.8	1.785	2.722	7.9	20.6
2 1	9 29.52	+11 23.4	1.755	2.730	3.7	20.4
2 11	9 20.46	+12 4.7	1.753	2.738	1.5	20.2
2 21	9 11.71	+12 46.6	1.781	2.746	5.5	20.5
3 2	9 4.28	+13 24.4	1.835	2.754	9.5	20.7
3 12	8 58.94	+13 54.6	1.915	2.762	12.9	21.0

466126 2012 EC_{16} 2 7.9 339°.39 4°.5/ 4.9 18

1 2	9 45.01	+20 45.6	1.375	2.212	17.0	20.9
1 12	9 42.77	+22 1.1	1.296	2.201	13.1	20.6
1 22	9 37.41	+23 28.6	1.239	2.190	8.8	20.4
2 1	9 29.55	+24 58.7	1.206	2.181	5.0	20.1
2 11	9 20.40	+26 19.8	1.199	2.173	5.6	20.1
2 21	9 11.50	+27 22.0	1.217	2.166	9.9	20.3
3 2	9 4.39	+27 59.8	1.259	2.159	14.4	20.6
3 12	9 0.20	+28 12.2	1.320	2.154	18.4	20.8

276876 2004 RU_{236} 2 7.9 131°.34 2°.7/10.1 18

1 2	9 47.05	+ 5 23.1	2.033	2.799	14.9	21.4
1 12	9 43.04	+ 5 30.5	1.945	2.802	11.9	21.2
1 22	9 36.88	+ 5 54.1	1.880	2.804	8.4	21.0
2 1	9 29.13	+ 6 32.3	1.840	2.807	4.8	20.8
2 11	9 20.62	+ 7 21.4	1.829	2.810	2.8	20.6
2 21	9 12.34	+ 8 16.3	1.847	2.812	5.4	20.8
3 2	9 5.22	+ 9 11.6	1.893	2.815	9.0	21.0
3 12	9 0.02	+10 2.3	1.964	2.817	12.4	21.3

152750 Brloh 2 7.9 59°.19 1°.0/ 8.7 18

1 2	9 49.85	+10 20.7	1.560	2.356	17.3	19.9
1 12	9 45.58	+10 39.9	1.499	2.378	13.4	19.7
1 22	9 38.66	+11 14.8	1.459	2.399	8.9	19.5
2 1	9 29.85	+12 1.3	1.445	2.421	4.0	19.3
2 11	9 20.34	+12 53.1	1.458	2.443	1.6	19.2
2 21	9 11.38	+13 43.6	1.498	2.465	6.2	19.5
3 2	9 4.11	+14 27.2	1.565	2.487	10.6	19.8
3 12	8 59.32	+15 0.3	1.656	2.509	14.3	20.1

164771 1999 CB_5 2 7.9 25°.59 0°.1/ 8.1 18

1 2	9 47.65	+13 52.0	1.724	2.528	15.6	19.4
1 12	9 43.79	+13 57.6	1.652	2.537	12.0	19.2
1 22	9 37.47	+14 13.8	1.602	2.546	7.9	19.0
2 1	9 29.37	+14 37.2	1.578	2.556	3.3	18.8
2 11	9 20.54	+15 2.8	1.582	2.567	1.4	18.6
2 21	9 12.11	+15 26.0	1.613	2.579	6.0	19.0
3 2	9 5.18	+15 42.9	1.671	2.591	10.2	19.2
3 12	9 0.51	+15 51.3	1.752	2.604	13.8	19.5

378764 2008 RH_{124} 2 7.9 108°.09 0°.6/ 8.5 18

1 2	9 47.89	+11 24.8	2.143	2.926	13.6	21.8
1 12	9 43.53	+11 43.3	2.061	2.933	10.6	21.6
1 22	9 37.12	+12 12.9	2.003	2.941	7.0	21.4
2 1	9 29.19	+12 50.8	1.972	2.948	3.1	21.1
2 11	9 20.61	+13 32.5	1.970	2.955	1.2	21.0
2 21	9 12.29	+14 13.3	1.997	2.962	5.1	21.3
3 2	9 5.15	+14 49.2	2.053	2.969	8.8	21.5
3 12	8 59.88	+15 17.2	2.134	2.976	12.0	21.7

464107 2014 WA_{428} 2 7.9 283°.94 1°.5/ 6.6 18

1 2	9 45.44	+15 18.7	2.137	2.936	13.1	20.5
1 12	9 41.86	+16 22.9	2.048	2.932	10.1	20.2
1 22	9 36.17	+17 38.7	1.982	2.927	6.5	20.0
2 1	9 28.85	+19 0.6	1.944	2.923	2.8	19.8
2 11	9 20.74	+20 22.0	1.937	2.919	2.3	19.7
2 21	9 12.77	+21 36.1	1.958	2.914	6.1	20.0
3 2	9 5.88	+22 37.8	2.008	2.910	9.8	20.2
3 12	9 0.87	+23 24.3	2.082	2.905	13.0	20.4

467543 2007 TK_{31} 2 7.9 117°.15 5°.8/14.2 18

1 2	9 45.75	− 7 31.9	2.778	3.456	13.2	21.8
1 12	9 41.40	− 7 47.0	2.694	3.472	11.3	21.7
1 22	9 35.48	− 7 44.4	2.631	3.488	9.1	21.5
2 1	9 28.46	− 7 23.2	2.592	3.504	7.1	21.4
2 11	9 20.96	− 6 44.6	2.582	3.519	5.9	21.4
2 21	9 13.66	− 5 51.7	2.600	3.534	6.2	21.4
3 2	9 7.21	− 4 48.8	2.647	3.548	7.7	21.5
3 12	9 2.17	− 3 41.1	2.721	3.562	9.7	21.7

417333 2006 DY_{21} 2 7.9 79.°59 1.°4/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 49.06	+17 5.2	1.978	2.778	14.0	21.5
1 12	9 44.62	+17 38.0	1.904	2.789	10.7	21.3
1 22	9 37.91	+18 18.9	1.854	2.799	6.9	21.1
2 1	9 29.54	+19 2.9	1.830	2.809	2.9	20.9
2 11	9 20.49	+19 44.4	1.836	2.819	2.2	20.8
2 21	9 11.79	+20 18.4	1.871	2.829	6.1	21.1
3 2	9 4.43	+20 41.7	1.933	2.839	9.8	21.3
3 12	8 59.18	+20 52.8	2.019	2.849	13.1	21.6

495535 2014 WJ_{67} 2 7.9 141.°28 5.°1/ 3.6 18

1 2	9 53.77	+28 29.2	2.252	3.053	12.5	22.1
1 12	9 48.13	+29 38.5	2.186	3.065	9.7	22.0
1 22	9 40.15	+30 47.3	2.144	3.077	7.0	21.8
2 1	9 30.47	+31 48.3	2.131	3.088	5.2	21.7
2 11	9 20.09	+32 34.8	2.147	3.099	5.8	21.8
2 21	9 10.08	+33 2.6	2.193	3.109	8.2	21.9
3 2	9 1.48	+33 10.6	2.265	3.118	10.9	22.1
3 12	8 55.05	+33 0.5	2.360	3.127	13.4	22.3

212967 2009 BK_{102} 2 7.9 352.°79 8.°7/30.2 18

1 2	9 49.40	+37 54.4	2.090	2.900	13.0	19.7
1 12	9 45.45	+39 40.7	2.028	2.898	10.9	19.5
1 22	9 38.78	+41 20.9	1.990	2.896	9.2	19.4
2 1	9 30.02	+42 45.2	1.979	2.895	8.7	19.4
2 11	9 20.27	+43 45.3	1.994	2.893	9.7	19.4
2 21	9 10.82	+44 16.7	2.034	2.893	11.6	19.6
3 2	9 2.93	+44 19.3	2.097	2.892	13.8	19.7
3 12	8 57.53	+43 56.3	2.179	2.892	15.8	19.9

214228 2005 EP_{148} 2 7.9 345.°18 1.°1/ 7.3 18

1 2	9 46.08	+14 27.9	1.336	2.160	18.1	20.3
1 12	9 43.51	+15 4.5	1.257	2.154	14.1	20.1
1 22	9 37.85	+15 57.4	1.198	2.148	9.2	19.8
2 1	9 29.73	+17 0.7	1.163	2.143	3.8	19.4
2 11	9 20.39	+18 5.8	1.154	2.138	2.4	19.3
2 21	9 11.34	+19 3.7	1.170	2.135	7.9	19.6
3 2	9 4.08	+19 47.6	1.211	2.132	13.0	19.9
3 12	8 59.71	+20 14.0	1.272	2.130	17.5	20.2

121922 2000 DT_{91} 2 7.9 245.°05 0.°9/ 7.4 18

1 2	9 53.32	+15 44.7	1.680	2.480	16.1	21.0
1 12	9 48.63	+16 6.0	1.584	2.467	12.6	20.7
1 22	9 41.00	+16 38.4	1.510	2.454	8.3	20.4
2 1	9 31.03	+17 17.2	1.461	2.440	3.5	20.1
2 11	9 19.81	+17 56.0	1.441	2.425	2.1	20.0
2 21	9 8.72	+18 28.7	1.449	2.410	7.1	20.2
3 2	8 59.16	+18 50.6	1.484	2.395	11.9	20.5
3 12	8 52.22	+18 59.7	1.541	2.379	16.0	20.7

470090 2006 SN_{402} 2 7.9 197.°66 5.°6/14.3 17

1 2	9 44.51	− 8 28.1	3.162	3.828	11.9	22.1
1 12	9 40.38	− 8 44.7	3.057	3.825	10.3	22.0
1 22	9 34.83	− 8 45.3	2.973	3.821	8.5	21.9
2 1	9 28.22	− 8 28.9	2.913	3.817	6.8	21.7
2 11	9 21.09	− 7 56.1	2.882	3.812	5.7	21.7
2 21	9 14.04	− 7 8.9	2.880	3.807	5.9	21.7
3 2	9 7.67	− 6 11.0	2.906	3.802	7.3	21.8
3 12	9 2.51	− 5 6.9	2.960	3.796	9.2	21.9

5037 Habing 2 7.9 41.°07 2.°7/ 9.7 18

1 2	9 47.03	+ 5 39.6	1.266	2.068	20.3	16.4
1 12	9 44.14	+ 6 3.6	1.198	2.077	16.1	16.2
1 22	9 38.15	+ 6 53.3	1.149	2.086	11.2	15.9
2 1	9 29.81	+ 8 5.5	1.123	2.095	5.9	15.6
2 11	9 20.41	+ 9 32.2	1.122	2.106	2.8	15.5
2 21	9 11.46	+11 3.2	1.147	2.116	7.1	15.7
3 2	9 4.38	+12 28.1	1.196	2.127	12.2	16.1
3 12	9 0.20	+13 39.5	1.267	2.138	16.7	16.4

503367 2016 CR_{13} 2 7.9 294.°32 2.°2/ 9.2 18

1 2	9 50.46	+ 9 56.6	1.685	2.474	16.5	21.5
1 12	9 46.32	+ 9 36.8	1.587	2.460	13.2	21.2
1 22	9 39.43	+ 9 29.7	1.511	2.446	9.1	20.9
2 1	9 30.36	+ 9 34.1	1.459	2.432	4.7	20.7
2 11	9 20.14	+ 9 47.1	1.434	2.418	2.4	20.5
2 21	9 10.04	+10 4.6	1.438	2.404	6.4	20.7
3 2	9 1.35	+10 22.2	1.468	2.391	11.0	20.9
3 12	8 55.11	+10 35.9	1.521	2.377	15.2	21.1

43088 1999 WO_{9} 2 7.9 145.°79 0.°4/ 7.7 18

1 2	9 50.37	+12 43.2	2.035	2.820	14.2	19.7
1 12	9 45.60	+13 30.8	1.955	2.830	11.0	19.5
1 22	9 38.56	+14 30.9	1.898	2.839	7.1	19.3
2 1	9 29.86	+15 38.7	1.870	2.848	2.9	19.0
2 11	9 20.40	+16 47.8	1.871	2.856	1.5	18.9
2 21	9 11.22	+17 51.9	1.903	2.864	5.7	19.2
3 2	9 3.32	+18 46.2	1.962	2.871	9.6	19.5
3 12	8 57.47	+19 27.7	2.047	2.877	12.9	19.7

437541 2013 YJ_{122} 2 7.9 258.°15 3.°6/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 2	9 46.94	+ 3 21.3	2.455	3.200	13.2	20.9
1 12	9 42.63	+ 2 58.5	2.355	3.194	10.7	20.8
1 22	9 36.49	+ 2 48.6	2.278	3.189	7.9	20.6
2 1	9 28.97	+ 2 51.6	2.228	3.184	5.1	20.4
2 11	9 20.78	+ 3 6.0	2.207	3.179	3.6	20.3
2 21	9 12.72	+ 3 29.1	2.215	3.174	5.2	20.4
3 2	9 5.59	+ 3 57.5	2.251	3.168	8.1	20.5
3 12	9 0.04	+ 4 27.3	2.314	3.163	10.9	20.7

222310 2000 SP_{299} 2 7.9 96.°57 3.°0/ 5.9 18

1 2	9 53.47	+22 30.7	1.984	2.786	13.9	20.3
1 12	9 47.98	+23 0.2	1.916	2.801	10.6	20.1
1 22	9 40.07	+23 32.7	1.872	2.815	7.0	19.9
2 1	9 30.45	+24 2.3	1.856	2.830	3.7	19.7
2 11	9 20.18	+24 23.6	1.868	2.844	3.7	19.8
2 21	9 10.41	+24 32.9	1.910	2.858	6.9	20.0
3 2	9 2.16	+24 28.6	1.979	2.871	10.4	20.2
3 12	8 56.19	+24 11.4	2.071	2.885	13.4	20.5

340844 2006 WK_{139} 2 7.9 146.°52 0.°2/ 7.9 15

1 2	9 55.00	+12 48.0	1.730	2.517	16.2	22.7
1 12	9 49.51	+13 22.7	1.654	2.529	12.6	22.5
1 22	9 41.29	+14 10.9	1.600	2.540	8.3	22.2
2 1	9 31.05	+15 7.6	1.573	2.551	3.4	22.0
2 11	9 19.92	+16 5.8	1.575	2.561	1.6	21.8
2 21	9 9.19	+16 59.0	1.607	2.569	6.4	22.2
3 2	9 0.08	+17 42.0	1.666	2.577	10.8	22.4
3 12	8 53.49	+18 12.2	1.749	2.584	14.6	22.7

467217 2016 ER_{158} 2 7.9 289.°37 4.°5/ 5.1 16

1 2	9 52.56	+25 20.9	1.781	2.595	14.8	21.5
1 12	9 47.91	+26 1.2	1.697	2.587	11.5	21.3
1 22	9 40.42	+26 44.0	1.636	2.578	7.9	21.1
2 1	9 30.74	+27 21.8	1.600	2.570	4.9	20.9
2 11	9 20.03	+27 47.4	1.593	2.562	5.3	20.9
2 21	9 9.64	+27 55.8	1.613	2.553	8.6	21.1
3 2	9 0.88	+27 45.3	1.659	2.545	12.4	21.3
3 12	8 54.70	+27 17.1	1.726	2.537	15.8	21.5

8137 Kvíz 2 7.9 144.°36 2.°1/ 6.6 18

1 2	9 55.30	+18 56.6	1.935	2.730	14.5	19.2
1 12	9 49.48	+19 31.7	1.861	2.741	11.1	19.0
1 22	9 41.13	+20 13.4	1.810	2.753	7.2	18.8
2 1	9 30.94	+20 56.0	1.786	2.763	3.3	18.6
2 11	9 19.98	+21 33.3	1.792	2.773	2.9	18.6
2 21	9 9.44	+22 0.5	1.828	2.782	6.7	18.8
3 2	9 0.43	+22 14.8	1.892	2.790	10.5	19.1
3 12	8 53.78	+22 15.8	1.980	2.797	13.8	19.3

162546 2000 QM_{207} 2 7.9 51.°06 0.°3/ 8.2 18

1 2	9 51.72	+12 50.3	1.291	2.105	19.3	19.2
1 12	9 47.56	+13 1.9	1.234	2.123	14.9	19.0
1 22	9 40.23	+13 28.7	1.197	2.142	9.8	18.8
2 1	9 30.62	+14 5.9	1.183	2.162	4.2	18.5
2 11	9 20.15	+14 46.2	1.196	2.181	1.7	18.4
2 21	9 10.39	+15 22.8	1.234	2.201	7.2	18.8
3 2	9 2.71	+15 50.4	1.298	2.222	12.1	19.1
3 12	8 58.00	+16 6.1	1.383	2.242	16.3	19.4

433011 2012 RC_{19} 2 7.9 119.°98 4.°0/12.3 18

1 2	9 44.76	− 1 41.6	2.686	3.404	12.8	21.3
1 12	9 40.73	− 1 30.8	2.598	3.416	10.5	21.1
1 22	9 35.12	− 1 3.5	2.533	3.427	8.0	21.0
2 1	9 28.36	− 0 20.3	2.494	3.439	5.5	20.8
2 11	9 21.11	+ 0 36.2	2.485	3.450	4.0	20.7
2 21	9 14.04	+ 1 42.1	2.505	3.461	4.9	20.8
3 2	9 7.83	+ 2 52.5	2.555	3.471	7.3	21.0
3 12	9 3.03	+ 4 2.5	2.632	3.482	9.8	21.1

295360 2008 HF_{39} 2 7.9 106.°17 0.°6/ 7.6 18

1 2	9 50.55	+15 0.8	1.824	2.622	15.1	21.1
1 12	9 46.00	+15 22.6	1.746	2.628	11.6	20.9
1 22	9 38.95	+15 54.5	1.690	2.634	7.6	20.7
2 1	9 30.07	+16 32.3	1.661	2.640	3.1	20.4
2 11	9 20.38	+17 10.1	1.661	2.645	1.7	20.3
2 21	9 11.03	+17 42.9	1.689	2.651	6.2	20.6
3 2	9 3.14	+18 6.7	1.744	2.656	10.3	20.9
3 12	8 57.52	+18 19.5	1.823	2.662	13.9	21.1

521051 2015 DS_{236} 2 7.9 261.°87 2.°2/10.0 17

1 2	9 44.57	+ 5 23.8	2.373	3.134	13.1	21.5
1 12	9 40.96	+ 5 47.6	2.271	3.126	10.5	21.3
1 22	9 35.48	+ 6 26.8	2.193	3.117	7.4	21.1
2 1	9 28.59	+ 7 19.4	2.141	3.109	4.1	20.9
2 11	9 21.00	+ 8 21.8	2.118	3.100	2.2	20.7
2 21	9 13.49	+ 9 29.1	2.126	3.091	4.8	20.9
3 2	9 6.89	+10 36.0	2.162	3.083	8.2	21.1
3 12	9 1.89	+11 37.6	2.225	3.074	11.3	21.3

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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