126354 2002 AL_{169} 1 13.9 231°.09 1°.4/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 8.17	+23 46.8	1.603	2.449	14.6	20.3
12 23	8 1.77	+24 10.1	1.529	2.445	10.6	20.0
1 2	7 52.54	+24 36.2	1.478	2.441	6.0	19.8
1 12	7 41.50	+25 0.2	1.454	2.436	1.6	19.5
1 22	7 30.02	+25 17.6	1.459	2.431	4.6	19.6
2 1	7 19.64	+25 25.9	1.491	2.426	9.3	19.9
2 11	7 11.66	+25 25.0	1.548	2.421	13.7	20.2
2 21	7 6.84	+25 16.4	1.626	2.416	17.3	20.4

312273 2008 AE_{100} 1 13.9 317°.25 2°.4/14.6 18

12 13	8 3.63	+16 0.7	1.465	2.312	15.7	20.6
12 23	7 58.69	+15 48.3	1.381	2.295	11.7	20.3
1 2	7 50.92	+15 45.9	1.319	2.278	7.1	20.0
1 12	7 41.25	+15 52.1	1.282	2.262	2.8	19.7
1 22	7 30.97	+16 4.6	1.272	2.247	4.7	19.8
2 1	7 21.60	+16 20.7	1.289	2.232	9.7	20.0
2 11	7 14.52	+16 37.9	1.329	2.217	14.4	20.3
2 21	7 10.58	+16 53.9	1.390	2.204	18.5	20.5

68374 2001 PM_{14} 1 13.9 101°.86 1°.6/15.1 18

12 13	7 57.86	+13 9.1	3.414	4.224	8.5	19.7
12 23	7 53.04	+13 23.9	3.345	4.238	6.3	19.5
1 2	7 47.11	+13 45.0	3.303	4.253	3.9	19.4
1 12	7 40.55	+14 11.1	3.291	4.267	1.8	19.3
1 22	7 33.89	+14 40.7	3.310	4.281	2.5	19.3
2 1	7 27.68	+15 11.9	3.361	4.295	4.7	19.5
2 11	7 22.42	+15 43.0	3.440	4.308	7.0	19.7
2 21	7 18.47	+16 12.8	3.545	4.322	9.0	19.8

197479 2004 BG_4 1 13.9 44°.42 5°.5/14.3 16

12 13	8 26.46	+36 28.1	0.888	1.746	22.4	19.1
12 23	8 16.10	+35 25.2	0.839	1.756	16.9	18.8
1 2	8 0.71	+33 57.9	0.810	1.767	10.7	18.6
1 12	7 42.80	+32 0.2	0.803	1.779	5.8	18.3
1 22	7 25.56	+29 36.6	0.822	1.792	7.9	18.5
2 1	7 11.80	+27 0.9	0.866	1.805	13.7	18.9
2 11	7 3.09	+24 28.6	0.932	1.819	19.1	19.2
2 21	6 59.63	+22 10.1	1.015	1.833	23.5	19.6

33671 1999 JV_{98} 1 13.9 73°.78 3°.3/15.6 18

12 13	8 3.75	+10 16.1	1.816	2.635	14.3	17.7
12 23	7 57.98	+10 37.7	1.758	2.654	10.8	17.5
1 2	7 50.13	+11 13.9	1.724	2.673	6.9	17.3
1 12	7 41.07	+12 2.4	1.718	2.691	3.7	17.2
1 22	7 31.87	+12 58.9	1.740	2.710	4.4	17.3
2 1	7 23.61	+13 59.1	1.791	2.729	7.9	17.5
2 11	7 17.24	+14 58.4	1.869	2.747	11.4	17.8
2 21	7 13.29	+15 53.6	1.969	2.766	14.4	18.0

465501 2008 UR_{15} 1 13.9 102°.34 1°.2/13.6 18

12 13	8 5.01	+24 11.3	2.150	2.987	11.7	22.0
12 23	7 58.77	+24 28.3	2.084	2.996	8.4	21.8
1 2	7 50.54	+24 46.4	2.044	3.005	4.8	21.5
1 12	7 41.15	+25 2.1	2.033	3.014	1.3	21.3
1 22	7 31.60	+25 12.9	2.051	3.023	3.6	21.5
2 1	7 22.94	+25 17.0	2.099	3.032	7.2	21.7
2 11	7 16.05	+25 14.6	2.174	3.040	10.6	22.0
2 21	7 11.49	+25 6.4	2.272	3.049	13.4	22.2

482799 2013 RQ_4 1 13.9 24°.23 19°.7/26.0 17

12 13	8 2.21	−19 9.7	1.074	1.799	27.7	20.6
12 23	7 58.11	−20 12.6	1.022	1.803	25.4	20.4
1 2	7 50.73	−20 22.4	0.981	1.807	23.1	20.2
1 12	7 41.24	−19 29.0	0.954	1.813	21.0	20.1
1 22	7 31.25	−17 30.1	0.944	1.819	19.8	20.1
2 1	7 22.60	−14 33.5	0.953	1.825	20.0	20.1
2 11	7 16.82	−10 56.8	0.981	1.833	21.4	20.2
2 21	7 14.73	− 7 1.9	1.027	1.841	23.6	20.4

190207 2005 YF_{269} 1 13.9 98°.34 2°.3/13.4 18

12 13	8 9.15	+28 44.2	2.099	2.933	12.1	20.0
12 23	8 1.70	+28 45.8	2.039	2.948	8.8	19.8
1 2	7 52.14	+28 43.7	2.005	2.963	5.2	19.6
1 12	7 41.42	+28 34.6	1.999	2.978	2.4	19.4
1 22	7 30.68	+28 16.5	2.025	2.992	4.2	19.6
2 1	7 21.06	+27 49.7	2.079	3.006	7.7	19.8
2 11	7 13.47	+27 15.8	2.161	3.020	10.9	20.1
2 21	7 8.43	+26 37.5	2.266	3.034	13.6	20.3

15632 Magee–Sauer 1 13.9 341°.64 2°.0/13.3 18

12 13	8 5.28	+22 43.7	1.234	2.097	16.9	17.7
12 23	8 0.34	+23 37.4	1.167	2.092	12.3	17.4
1 2	7 52.03	+24 39.0	1.121	2.087	7.0	17.1
1 12	7 41.47	+25 40.9	1.101	2.082	2.2	16.8
1 22	7 30.30	+26 34.9	1.106	2.079	5.6	17.0
2 1	7 20.40	+27 15.4	1.136	2.076	11.1	17.3
2 11	7 13.39	+27 40.5	1.189	2.073	16.1	17.5
2 21	7 10.15	+27 51.7	1.261	2.071	20.2	17.8

99419 2002 AO_{153} 1 13.9 312°.32 1°.2/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 5.90	+23 5.7	1.355	2.213	16.1	19.1
12 23	8 0.65	+23 24.4	1.276	2.198	11.8	18.8
1 2	7 52.17	+23 47.8	1.218	2.183	6.7	18.4
1 12	7 41.50	+24 10.7	1.186	2.168	1.6	18.1
1 22	7 30.16	+24 28.0	1.180	2.155	5.0	18.2
2 1	7 19.92	+24 36.6	1.201	2.141	10.5	18.5
2 11	7 12.36	+24 35.8	1.244	2.128	15.5	18.8
2 21	7 8.38	+24 26.9	1.306	2.116	19.7	19.0

438121 2005 QL_{14} 1 13.9 138°.52 2°.6/13.3 18

12 13	8 12.83	+27 17.0	1.622	2.462	14.7	21.3
12 23	8 4.95	+27 39.6	1.560	2.473	10.7	21.1
1 2	7 54.22	+28 0.3	1.523	2.483	6.3	20.9
1 12	7 41.79	+28 13.4	1.514	2.493	2.7	20.7
1 22	7 29.20	+28 15.1	1.534	2.502	5.1	20.8
2 1	7 18.00	+28 4.5	1.582	2.511	9.4	21.1
2 11	7 9.45	+27 43.3	1.655	2.518	13.4	21.4
2 21	7 4.17	+27 15.0	1.750	2.526	16.8	21.6

159107 2004 VS_3 1 13.9 26°.68 0°.8/14.3 18

12 13	8 3.30	+18 6.6	1.893	2.730	13.1	20.3
12 23	7 57.79	+18 21.9	1.821	2.732	9.5	20.1
1 2	7 50.12	+18 44.4	1.773	2.734	5.5	19.9
1 12	7 41.12	+19 11.3	1.753	2.736	1.3	19.6
1 22	7 31.84	+19 39.2	1.763	2.738	3.5	19.8
2 1	7 23.41	+20 5.3	1.801	2.740	7.7	20.0
2 11	7 16.83	+20 27.6	1.865	2.742	11.5	20.2
2 21	7 12.71	+20 45.3	1.951	2.745	14.6	20.5

458227 2010 RT_{180} 1 13.9 80°.26 4°.1/12.7 18

12 13	8 9.93	+31 5.1	1.707	2.549	14.0	21.4
12 23	8 2.75	+31 41.3	1.655	2.566	10.3	21.2
1 2	7 52.91	+32 12.3	1.628	2.583	6.5	21.0
1 12	7 41.57	+32 31.8	1.628	2.600	4.1	20.9
1 22	7 30.16	+32 36.2	1.657	2.617	5.9	21.1
2 1	7 20.13	+32 24.8	1.713	2.633	9.5	21.3
2 11	7 12.61	+32 0.1	1.794	2.650	12.9	21.5
2 21	7 8.18	+31 26.0	1.896	2.666	15.9	21.8

90531 2004 FY_{25} 1 14.0 319°.26 3°.2/13.1 18

12 13	8 7.48	+26 9.1	1.230	2.093	17.0	19.7
12 23	8 2.07	+26 49.2	1.160	2.084	12.5	19.4
1 2	7 53.07	+27 31.7	1.111	2.075	7.3	19.0
1 12	7 41.66	+28 8.9	1.087	2.067	3.2	18.8
1 22	7 29.61	+28 33.6	1.089	2.059	6.3	18.9
2 1	7 18.92	+28 42.3	1.116	2.052	11.6	19.2
2 11	7 11.30	+28 35.6	1.164	2.045	16.6	19.5
2 21	7 7.64	+28 16.9	1.231	2.039	20.7	19.7

188828 2005 YH_{277} 1 14.0 164°.31 0°.3/14.1 18

12 13	8 4.93	+19 34.0	2.300	3.128	11.4	21.7
12 23	7 58.63	+19 50.6	2.225	3.133	8.2	21.5
1 2	7 50.47	+20 11.8	2.177	3.137	4.7	21.3
1 12	7 41.17	+20 34.8	2.158	3.140	0.9	21.0
1 22	7 31.65	+20 57.1	2.170	3.144	3.1	21.2
2 1	7 22.87	+21 16.4	2.211	3.146	6.8	21.4
2 11	7 15.68	+21 31.6	2.281	3.148	10.1	21.6
2 21	7 10.65	+21 42.4	2.374	3.150	12.9	21.8

56084 1999 AN_{19} 1 14.0 147°.53 1°.5/14.6 18

12 13	8 7.33	+15 15.0	1.819	2.646	14.0	19.3
12 23	8 0.72	+15 44.7	1.750	2.655	10.3	19.1
1 2	7 51.78	+16 25.1	1.706	2.663	6.1	18.9
1 12	7 41.41	+17 12.6	1.691	2.672	1.9	18.6
1 22	7 30.75	+18 2.8	1.705	2.679	3.7	18.7
2 1	7 21.04	+18 51.5	1.748	2.686	8.0	19.0
2 11	7 13.34	+19 35.6	1.818	2.692	11.9	19.3
2 21	7 8.29	+20 13.6	1.911	2.697	15.2	19.5

18200 2714 P–L 1 14.0 357°.61 2°.6/13.4 18

12 13	7 57.86	+24 58.1	0.857	1.750	19.5	17.3
12 23	7 55.75	+25 19.9	0.802	1.741	14.2	16.9
1 2	7 49.71	+25 45.5	0.766	1.735	8.2	16.6
1 12	7 41.11	+26 7.5	0.750	1.731	2.8	16.3
1 22	7 31.98	+26 19.3	0.755	1.730	6.5	16.5
2 1	7 24.56	+26 17.4	0.781	1.732	12.7	16.8
2 11	7 20.64	+26 2.2	0.826	1.736	18.3	17.1
2 21	7 20.99	+25 36.1	0.887	1.743	22.9	17.4

90711 Stotternheim 1 14.0 60°.37 2°.2/13.5 18

12 13	8 9.77	+25 24.3	1.310	2.166	16.6	19.7
12 23	8 3.10	+25 46.0	1.260	2.181	12.0	19.4
1 2	7 53.28	+26 8.3	1.232	2.196	6.8	19.2
1 12	7 41.67	+26 25.2	1.230	2.211	2.3	18.9
1 22	7 29.96	+26 32.2	1.254	2.227	5.3	19.2
2 1	7 19.89	+26 27.8	1.305	2.242	10.2	19.5
2 11	7 12.75	+26 13.5	1.380	2.258	14.6	19.8
2 21	7 9.16	+25 52.0	1.474	2.274	18.3	20.1

192414 1997 LG_{17} 1 14.0 210°.60 2°.9/15.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 7.55	+12 48.1	1.914	2.731	13.8	21.8
12 23	8 0.92	+12 45.1	1.827	2.724	10.4	21.5
1 2	7 51.95	+12 52.9	1.766	2.716	6.6	21.3
1 12	7 41.47	+13 10.5	1.732	2.708	3.3	21.1
1 22	7 30.55	+13 35.4	1.728	2.699	4.4	21.1
2 1	7 20.40	+14 4.8	1.754	2.689	8.2	21.3
2 11	7 12.12	+14 35.9	1.806	2.678	12.1	21.6
2 21	7 6.40	+15 6.3	1.881	2.666	15.4	21.8

18189 Medeobaldia 1 14.0 328°.63 1°.1/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.03	+23 5.4	1.777	2.622	13.4	18.4
12 23	7 59.26	+23 27.7	1.704	2.620	9.7	18.2
1 2	7 51.05	+23 53.2	1.654	2.617	5.5	17.9
1 12	7 41.31	+24 17.7	1.633	2.615	1.3	17.6
1 22	7 31.23	+24 37.4	1.640	2.613	4.1	17.8
2 1	7 22.09	+24 49.9	1.675	2.611	8.4	18.1
2 11	7 15.04	+24 54.5	1.735	2.609	12.4	18.3
2 21	7 10.74	+24 52.1	1.817	2.607	15.7	18.5

464871 2005 JN_{28} 1 14.0 224°.88 1°.4/13.2 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.53	+24 3.9	2.693	3.525	9.8	22.6
12 23	7 56.88	+24 49.8	2.607	3.517	7.1	22.4
1 2	7 49.51	+25 38.1	2.548	3.509	4.0	22.2
1 12	7 41.04	+26 25.1	2.520	3.500	1.5	22.0
1 22	7 32.25	+27 7.5	2.523	3.492	3.3	22.2
2 1	7 23.98	+27 42.5	2.556	3.483	6.4	22.3
2 11	7 17.03	+28 9.1	2.617	3.473	9.3	22.5
2 21	7 11.98	+28 27.3	2.703	3.463	11.8	22.7

57985 2002 PL_{129} 1 14.0 26°.21 3°.1/15.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.18	+11 1.9	1.868	2.693	13.8	19.3
12 23	7 56.24	+11 19.6	1.798	2.698	10.4	19.1
1 2	7 49.25	+11 51.2	1.752	2.703	6.7	18.9
1 12	7 41.00	+12 34.7	1.734	2.708	3.5	18.7
1 22	7 32.49	+13 26.6	1.743	2.714	4.2	18.8
2 1	7 24.78	+14 22.7	1.781	2.720	7.8	19.0
2 11	7 18.82	+15 18.8	1.846	2.727	11.4	19.2
2 21	7 15.20	+16 11.5	1.933	2.734	14.5	19.4

161462 2004 BE_{116} 1 14.0 37°.31 6°.4/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.42	+40 35.1	1.953	2.776	13.3	19.3
12 23	8 5.13	+40 43.1	1.894	2.784	10.5	19.2
1 2	7 54.18	+40 36.9	1.858	2.792	7.8	19.0
1 12	7 41.81	+40 11.1	1.850	2.800	6.4	19.0
1 22	7 29.52	+39 23.7	1.871	2.809	7.4	19.0
2 1	7 18.78	+38 16.9	1.920	2.818	10.0	19.2
2 11	7 10.69	+36 56.2	1.994	2.828	12.8	19.4
2 21	7 5.74	+35 27.8	2.090	2.837	15.3	19.6

516461 2005 LF_{8} 1 14.0 127°.34 1°.4/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.83	+23 47.5	2.001	2.828	12.9	23.0
12 23	8 4.40	+24 21.7	1.946	2.853	9.3	22.8
1 2	7 53.71	+24 56.9	1.916	2.876	5.2	22.6
1 12	7 41.75	+25 28.5	1.917	2.898	1.5	22.4
1 22	7 29.71	+25 52.7	1.949	2.919	3.9	22.6
2 1	7 18.84	+26 7.6	2.011	2.939	7.8	22.9
2 11	7 10.11	+26 13.4	2.101	2.957	11.3	23.2
2 21	7 4.11	+26 11.9	2.214	2.975	14.1	23.4

46642 1995 FU_{4} 1 14.0 355°.76 4°.5/16.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.84	+ 7 7.2	1.994	2.802	13.6	19.2
12 23	7 55.92	+ 7 14.1	1.916	2.801	10.6	19.0
1 2	7 49.06	+ 7 37.1	1.862	2.801	7.4	18.8
1 12	7 40.98	+ 8 15.3	1.835	2.800	4.8	18.7
1 22	7 32.60	+ 9 6.3	1.836	2.800	5.1	18.7
2 1	7 24.91	+10 5.9	1.866	2.800	7.9	18.8
2 11	7 18.82	+11 9.6	1.923	2.800	11.2	19.0
2 21	7 14.94	+12 13.0	2.002	2.800	14.2	19.2

193006 2000 ES_{9} 1 14.0 207°.43 4°.0/15.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.46	+10 4.9	1.731	2.548	15.0	20.7
12 23	8 0.29	+10 6.3	1.650	2.544	11.5	20.4
1 2	7 51.67	+10 22.7	1.593	2.539	7.6	20.2
1 12	7 41.44	+10 53.2	1.562	2.534	4.3	20.0
1 22	7 30.77	+11 35.0	1.560	2.528	5.1	20.0
2 1	7 20.93	+12 24.1	1.586	2.522	8.9	20.2
2 11	7 13.08	+13 16.0	1.639	2.515	12.8	20.4
2 21	7 7.96	+14 6.8	1.713	2.507	16.3	20.6

338942 2004 EC_{64} 1 14.0 255°.44 8°.8/ 9.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.89	+50 23.4	2.505	3.289	11.9	20.3
12 23	8 5.76	+51 20.5	2.437	3.279	10.3	20.2
1 2	7 54.76	+52 1.5	2.393	3.269	9.1	20.1
1 12	7 41.97	+52 19.6	2.374	3.259	8.8	20.0
1 22	7 28.86	+52 10.7	2.382	3.249	9.6	20.1
2 1	7 16.99	+51 35.0	2.415	3.238	11.1	20.2
2 11	7 7.67	+50 36.8	2.472	3.228	12.9	20.3
2 21	7 1.60	+49 22.3	2.549	3.217	14.6	20.4

341611 2007 UP_{128} 1 14.0 240°.13 5°.5/16.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 0.57	+ 3 22.3	2.489	3.271	12.1	21.0
12 23	7 55.41	+ 2 55.5	2.405	3.266	9.7	20.8
1 2	7 48.66	+ 2 42.4	2.345	3.261	7.4	20.7
1 12	7 40.93	+ 2 44.0	2.312	3.256	5.7	20.5
1 22	7 32.94	+ 2 59.9	2.308	3.252	5.8	20.5
2 1	7 25.49	+ 3 28.2	2.332	3.247	7.6	20.6
2 11	7 19.32	+ 4 5.8	2.384	3.242	10.1	20.8
2 21	7 14.94	+ 4 49.2	2.459	3.236	12.4	20.9

466494 2013 WB_{30} 1 14.0 105°.09 0°.3/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.78	+21 20.2	2.457	3.287	10.7	22.0
12 23	7 57.66	+21 40.5	2.395	3.304	7.7	21.8
1 2	7 49.87	+22 3.7	2.360	3.321	4.3	21.7
1 12	7 41.12	+22 27.0	2.354	3.337	0.7	21.4
1 22	7 32.27	+22 47.8	2.380	3.353	2.9	21.6
2 1	7 24.18	+23 4.4	2.435	3.369	6.3	21.9
2 11	7 17.60	+23 16.0	2.519	3.384	9.3	22.1
2 21	7 13.01	+23 22.7	2.626	3.400	11.8	22.3

222817 2002 CA_{296} 1 14.0 71°.73 1°.8/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.41	+14 53.0	1.870	2.701	13.5	20.7
12 23	7 57.85	+15 10.8	1.802	2.708	9.9	20.5
1 2	7 50.17	+15 38.9	1.758	2.715	6.0	20.3
1 12	7 41.19	+16 14.6	1.742	2.722	2.2	20.0
1 22	7 31.97	+16 54.4	1.755	2.729	3.7	20.1
2 1	7 23.61	+17 34.8	1.797	2.736	7.7	20.4
2 11	7 17.09	+18 12.8	1.865	2.743	11.4	20.6
2 21	7 13.01	+18 46.5	1.955	2.750	14.6	20.9

120074 Bass 1 14.0 259°.24 2°.6/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.20	+14 41.9	1.993	2.817	13.1	20.2
12 23	7 59.18	+14 21.7	1.903	2.804	9.8	20.0
1 2	7 50.97	+14 9.1	1.837	2.791	6.1	19.7
1 12	7 41.35	+14 3.7	1.800	2.777	2.9	19.5
1 22	7 31.31	+14 4.1	1.792	2.763	4.1	19.5
2 1	7 21.99	+14 8.9	1.814	2.749	7.9	19.7
2 11	7 14.40	+14 16.4	1.862	2.735	11.7	19.9
2 21	7 9.24	+14 25.2	1.932	2.721	14.9	20.1

402068 2003 TB_{38} 1 14.0 50°.71 0°.9/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.54	+19 34.8	1.428	2.276	16.0	20.5
12 23	8 1.26	+19 23.4	1.370	2.286	11.6	20.3
1 2	7 52.21	+19 18.0	1.334	2.296	6.6	20.0
1 12	7 41.54	+19 16.0	1.324	2.307	1.5	19.7
1 22	7 30.70	+19 14.9	1.342	2.318	4.3	19.9
2 1	7 21.21	+19 13.0	1.387	2.329	9.2	20.3
2 11	7 14.27	+19 9.5	1.456	2.340	13.6	20.5
2 21	7 10.48	+19 4.1	1.546	2.352	17.3	20.8

465267 2007 TQ_{61} 1 14.0 149°.18 1°.9/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.85	+14 5.9	2.619	3.435	10.5	21.9
12 23	7 56.23	+14 9.3	2.544	3.441	7.8	21.8
1 2	7 49.07	+14 19.9	2.495	3.447	4.8	21.6
1 12	7 41.00	+14 36.5	2.475	3.452	2.2	21.4
1 22	7 32.75	+14 57.3	2.486	3.457	3.1	21.5
2 1	7 25.11	+15 20.3	2.527	3.462	6.0	21.7
2 11	7 18.77	+15 43.6	2.597	3.467	8.9	21.9
2 21	7 14.21	+16 5.8	2.691	3.471	11.4	22.1

153950 2001 YL_{156} 1 14.0 60°.30 4°.3/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.09	+33 7.7	1.664	2.504	14.4	20.0
12 23	8 4.29	+33 13.9	1.611	2.520	10.7	19.8
1 2	7 53.76	+33 11.7	1.583	2.537	6.8	19.6
1 12	7 41.78	+32 55.7	1.582	2.554	4.4	19.5
1 22	7 29.87	+32 24.1	1.610	2.571	6.0	19.7
2 1	7 19.54	+31 38.1	1.665	2.588	9.6	19.9
2 11	7 11.90	+30 41.9	1.746	2.605	13.1	20.2
2 21	7 7.45	+29 40.2	1.848	2.622	16.1	20.4

65582 4362 $T\text{-}_{2}$ 1 14.0 349°.86 2°.9/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.09	+27 50.9	1.905	2.753	12.5	19.0
12 23	7 57.84	+28 28.0	1.832	2.748	9.1	18.8
1 2	7 50.26	+29 4.6	1.785	2.745	5.5	18.6
1 12	7 41.22	+29 35.6	1.764	2.741	2.9	18.4
1 22	7 31.85	+29 56.7	1.773	2.739	4.9	18.5
2 1	7 23.38	+30 5.9	1.809	2.736	8.6	18.8
2 11	7 16.89	+30 3.4	1.871	2.735	12.1	19.0
2 21	7 13.02	+29 50.9	1.953	2.734	15.1	19.2

47689 2000 CN_{91} 1 14.0 66°.29 3°.9/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.24	+32 7.3	2.037	2.875	12.2	18.2
12 23	8 0.60	+32 32.7	1.975	2.884	9.1	18.0
1 2	7 51.68	+32 52.6	1.938	2.892	5.8	17.8
1 12	7 41.45	+33 2.2	1.930	2.900	3.9	17.7
1 22	7 31.08	+32 58.6	1.951	2.909	5.4	17.8
2 1	7 21.80	+32 41.3	2.000	2.917	8.5	18.0
2 11	7 14.60	+32 12.4	2.074	2.926	11.6	18.2
2 21	7 10.05	+31 34.9	2.171	2.935	14.3	18.4

210182 Mazzini 1 14.0 259°.98 5°.4/16.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 0.78	+ 4 23.0	2.464	3.250	12.0	20.2
12 23	7 55.55	+ 3 49.0	2.384	3.249	9.6	20.1
1 2	7 48.73	+ 3 27.9	2.329	3.248	7.2	19.9
1 12	7 40.95	+ 3 20.8	2.300	3.247	5.6	19.8
1 22	7 32.95	+ 3 27.4	2.301	3.247	5.7	19.8
2 1	7 25.53	+ 3 46.1	2.330	3.246	7.6	19.9
2 11	7 19.41	+ 4 14.2	2.386	3.245	10.0	20.1
2 21	7 15.09	+ 4 48.2	2.466	3.244	12.4	20.3

109780 2001 RF_{84} 1 14.0 219°.64 1°.8/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.05	+15 8.4	2.246	3.065	11.9	20.9
12 23	7 58.88	+15 15.7	2.156	3.056	8.9	20.7
1 2	7 50.73	+15 31.0	2.092	3.046	5.4	20.5
1 12	7 41.31	+15 52.6	2.057	3.036	2.1	20.2
1 22	7 31.52	+16 18.2	2.052	3.025	3.4	20.3
2 1	7 22.36	+16 45.1	2.078	3.014	7.1	20.5
2 11	7 14.75	+17 11.4	2.132	3.002	10.6	20.7
2 21	7 9.32	+17 35.5	2.209	2.989	13.6	20.9

364456 2007 AN 1 14.0 114°.73 4°.6/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.48	+32 2.6	2.066	2.900	12.3	20.9
12 23	8 2.29	+33 21.1	2.013	2.918	9.1	20.8
1 2	7 52.69	+34 35.2	1.987	2.936	6.1	20.6
1 12	7 41.63	+35 37.7	1.990	2.953	4.6	20.5
1 22	7 30.33	+36 23.5	2.022	2.970	6.2	20.7
2 1	7 20.08	+36 50.3	2.084	2.986	9.1	20.9
2 11	7 11.95	+36 59.5	2.171	3.002	12.0	21.1
2 21	7 6.59	+36 54.4	2.279	3.017	14.4	21.3

391476 2007 HU_{38} 1 14.0 175°.73 3°.5/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.67	+29 44.3	1.986	2.819	12.7	22.2
12 23	8 3.95	+30 29.1	1.915	2.822	9.4	22.0
1 2	7 53.68	+31 11.2	1.870	2.825	5.8	21.8
1 12	7 41.81	+31 44.4	1.853	2.826	3.5	21.6
1 22	7 29.62	+32 4.1	1.867	2.827	5.4	21.8
2 1	7 18.46	+32 8.7	1.910	2.827	8.9	22.0
2 11	7 9.52	+31 59.5	1.980	2.826	12.3	22.2
2 21	7 3.48	+31 39.7	2.071	2.825	15.2	22.4

457028 2008 CY_{148} 1 14.0 290°.20 1°.0/14.3 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.30	+18 39.4	1.677	2.518	14.3	21.6
12 23	7 59.69	+18 40.0	1.589	2.502	10.5	21.4
1 2	7 51.45	+18 47.6	1.525	2.486	6.1	21.1
1 12	7 41.46	+18 59.5	1.488	2.470	1.5	20.7
1 22	7 30.91	+19 12.9	1.479	2.454	4.0	20.9
2 1	7 21.20	+19 25.4	1.498	2.438	8.8	21.1
2 11	7 13.59	+19 35.1	1.542	2.422	13.2	21.3
2 21	7 8.86	+19 41.6	1.607	2.407	17.0	21.5

345238 2005 UN_{247} 1 14.0 321°.76 3°.9/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.84	+14 7.4	1.270	2.117	17.6	20.3
12 23	8 0.54	+13 34.9	1.196	2.108	13.3	20.0
1 2	7 52.09	+13 14.6	1.143	2.099	8.5	19.7
1 12	7 41.57	+13 6.5	1.114	2.091	4.3	19.4
1 22	7 30.49	+13 9.1	1.111	2.083	5.8	19.5
2 1	7 20.57	+13 20.3	1.134	2.076	10.7	19.7
2 11	7 13.30	+13 36.7	1.179	2.069	15.6	20.0
2 21	7 9.52	+13 55.4	1.243	2.063	19.9	20.2

191409 2003 SJ_{88} 1 14.0 49°.32 0°.9/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.35	+22 55.4	1.866	2.710	13.0	20.1
12 23	7 58.57	+23 16.9	1.804	2.720	9.3	19.9
1 2	7 50.57	+23 41.2	1.767	2.729	5.2	19.6
1 12	7 41.27	+24 4.5	1.757	2.740	1.2	19.4
1 22	7 31.79	+24 23.2	1.777	2.750	3.8	19.6
2 1	7 23.30	+24 35.4	1.825	2.760	7.9	19.9
2 11	7 16.79	+24 40.5	1.898	2.771	11.5	20.1
2 21	7 12.82	+24 39.1	1.994	2.782	14.6	20.3

273129 2006 GH_{21} 1 14.0 253°.69 0°.2/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.70	+19 56.3	2.068	2.904	12.2	21.0
12 23	7 57.99	+20 8.9	1.992	2.903	8.8	20.8
1 2	7 50.24	+20 26.5	1.941	2.903	5.0	20.6
1 12	7 41.23	+20 46.1	1.919	2.902	0.9	20.3
1 22	7 31.95	+21 5.1	1.927	2.901	3.3	20.5
2 1	7 23.46	+21 21.1	1.963	2.901	7.3	20.7
2 11	7 16.69	+21 33.0	2.026	2.900	10.9	20.9
2 21	7 12.24	+21 40.4	2.113	2.899	13.9	21.1

102766 1999 VQ_{136} 1 14.0 66°.10 4°.6/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.78	+28 5.7	1.263	2.122	16.9	19.6
12 23	8 3.52	+29 17.6	1.211	2.131	12.4	19.4
1 2	7 53.77	+30 29.4	1.181	2.141	7.6	19.2
1 12	7 41.85	+31 30.9	1.176	2.151	4.6	19.0
1 22	7 29.59	+32 14.0	1.198	2.162	7.1	19.2
2 1	7 18.94	+32 35.4	1.245	2.172	11.7	19.5
2 11	7 11.43	+32 36.8	1.314	2.182	15.9	19.8
2 21	7 7.79	+32 22.7	1.403	2.193	19.5	20.0

268144 2004 TB_{225} 1 14.0 35°.78 2°.3/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 3.11	+14 11.5	1.851	2.682	13.6	21.1
12 23	7 57.68	+14 14.8	1.780	2.685	10.1	20.8
1 2	7 50.11	+14 28.5	1.733	2.688	6.2	20.6
1 12	7 41.22	+14 50.7	1.713	2.691	2.7	20.4
1 22	7 32.05	+15 18.8	1.721	2.694	3.9	20.5
2 1	7 23.74	+15 49.7	1.758	2.697	7.8	20.7
2 11	7 17.27	+16 20.6	1.821	2.701	11.6	21.0
2 21	7 13.24	+16 49.2	1.907	2.705	14.8	21.2

33493 1999 GX_{17} 1 14.0 29°.86 1°.3/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.34	+21 21.9	1.643	2.491	14.2	17.1
12 23	7 58.95	+22 20.7	1.577	2.495	10.2	16.8
1 2	7 50.99	+23 26.7	1.535	2.498	5.8	16.6
1 12	7 41.40	+24 33.6	1.520	2.502	1.5	16.3
1 22	7 31.42	+25 35.1	1.534	2.507	4.4	16.5
2 1	7 22.44	+26 26.5	1.576	2.511	8.9	16.8
2 11	7 15.63	+27 5.5	1.642	2.516	13.0	17.0
2 21	7 11.71	+27 32.3	1.730	2.521	16.3	17.3

279890 2001 QP_{105} 1 14.0 86°.15 6°.7/17.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.73	− 0 54.7	2.474	3.232	12.8	20.4
12 23	7 56.10	− 1 31.2	2.414	3.253	10.5	20.2
1 2	7 48.98	− 1 51.0	2.379	3.273	8.4	20.1
1 12	7 41.02	− 1 53.1	2.369	3.293	6.9	20.1
1 22	7 32.97	− 1 37.9	2.388	3.313	6.9	20.1
2 1	7 25.60	− 1 7.5	2.435	3.333	8.2	20.2
2 11	7 19.58	− 0 25.8	2.508	3.352	10.1	20.4
2 21	7 15.35	+ 0 23.1	2.605	3.371	12.1	20.5

53693 2000 DC_{85} 1 14.0 81°.93 3°.3/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.01	+26 2.7	1.351	2.204	16.4	18.8
12 23	8 4.03	+27 3.0	1.304	2.223	11.9	18.5
1 2	7 53.88	+28 4.2	1.281	2.243	6.9	18.3
1 12	7 41.88	+28 57.8	1.283	2.262	3.3	18.1
1 22	7 29.74	+29 37.0	1.313	2.281	5.9	18.3
2 1	7 19.20	+29 58.9	1.370	2.300	10.5	18.7
2 11	7 11.62	+30 4.8	1.450	2.318	14.7	19.0
2 21	7 7.62	+29 57.9	1.550	2.337	18.1	19.2

310155 2011 QR_{32} 1 14.0 136°.39 1°.3/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.82	+16 15.6	1.805	2.634	14.0	21.2
12 23	8 1.09	+16 39.4	1.740	2.646	10.3	21.0
1 2	7 52.03	+17 12.6	1.699	2.657	6.0	20.7
1 12	7 41.57	+17 51.5	1.686	2.668	1.7	20.5
1 22	7 30.87	+18 32.3	1.704	2.678	3.7	20.6
2 1	7 21.17	+19 11.3	1.750	2.687	8.0	20.9
2 11	7 13.52	+19 45.9	1.823	2.696	11.9	21.2
2 21	7 8.54	+20 14.9	1.918	2.705	15.1	21.4

27505 2000 GN_{141} 1 14.0 73°.25 0°.9/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.60	+16 10.4	1.664	2.501	14.6	18.3
12 23	7 59.57	+16 53.4	1.610	2.520	10.6	18.1
1 2	7 51.19	+17 47.0	1.579	2.539	6.1	17.9
1 12	7 41.42	+18 46.5	1.577	2.559	1.5	17.6
1 22	7 31.48	+19 46.5	1.603	2.578	3.7	17.8
2 1	7 22.64	+20 42.2	1.657	2.597	8.2	18.1
2 11	7 15.93	+21 30.6	1.738	2.616	12.1	18.4
2 21	7 11.95	+22 10.2	1.841	2.635	15.4	18.7

493024 2014 SU_{222} 1 14.0 124°.37 1°.0/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.05	+16 25.9	2.063	2.888	12.6	21.9
12 23	7 59.57	+16 53.8	1.999	2.903	9.2	21.7
1 2	7 51.08	+17 29.8	1.960	2.918	5.3	21.5
1 12	7 41.40	+18 10.6	1.951	2.933	1.5	21.3
1 22	7 31.55	+18 52.5	1.972	2.946	3.3	21.4
2 1	7 22.56	+19 32.4	2.023	2.960	7.2	21.7
2 11	7 15.35	+20 7.9	2.101	2.972	10.7	22.0
2 21	7 10.48	+20 37.9	2.203	2.984	13.6	22.2

16955 1998 KU_{48} 1 14.0 332°.69 1°.5/13.3 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.10	+19 52.1	1.381	2.236	15.9	15.9
12 23	7 59.33	+21 15.4	1.307	2.229	11.6	15.6
1 2	7 51.50	+22 52.0	1.257	2.222	6.5	15.3
1 12	7 41.54	+24 33.8	1.233	2.215	1.7	15.0
1 22	7 30.88	+26 10.9	1.237	2.209	5.1	15.2
2 1	7 21.21	+27 35.1	1.267	2.204	10.4	15.5
2 11	7 14.05	+28 42.0	1.321	2.199	15.2	15.8
2 21	7 10.32	+29 30.8	1.394	2.195	19.1	16.0

354963 2006 HU_{9} 1 14.0 42°.45 1°.6/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.07	+21 38.9	1.328	2.184	16.4	20.2
12 23	8 0.58	+22 37.6	1.271	2.193	11.8	19.9
1 2	7 52.05	+23 44.0	1.237	2.201	6.6	19.7
1 12	7 41.60	+24 50.7	1.229	2.211	1.8	19.4
1 22	7 30.81	+25 49.9	1.247	2.220	5.1	19.6
2 1	7 21.34	+26 36.6	1.292	2.230	10.2	20.0
2 11	7 14.58	+27 8.9	1.361	2.241	14.7	20.2
2 21	7 11.24	+27 27.8	1.449	2.251	18.4	20.5

206324 2003 *ON* 1 14.0 180°.31 1°.8/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 8.62	+24 23.8	1.900	2.737	13.0	21.2
12 23	8 1.80	+25 2.2	1.827	2.739	9.4	21.0
1 2	7 52.53	+25 42.9	1.779	2.740	5.4	20.8
1 12	7 41.70	+26 20.7	1.759	2.740	1.9	20.5
1 22	7 30.51	+26 51.1	1.769	2.739	4.3	20.7
2 1	7 20.26	+27 11.5	1.809	2.738	8.4	21.0
2 11	7 12.09	+27 21.3	1.875	2.737	12.2	21.2
2 21	7 6.69	+27 22.1	1.962	2.735	15.3	21.4

325832 2010 SN_{22} 1 14.0 58°.36 2°.7/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.15	+13 31.6	1.535	2.371	15.7	20.7
12 23	7 59.34	+13 39.1	1.481	2.388	11.6	20.5
1 2	7 51.10	+13 59.7	1.450	2.405	7.1	20.2
1 12	7 41.43	+14 30.7	1.445	2.423	3.1	20.0
1 22	7 31.63	+15 8.3	1.467	2.440	4.4	20.2
2 1	7 22.99	+15 48.4	1.517	2.458	8.7	20.5
2 11	7 16.59	+16 27.3	1.593	2.476	12.7	20.7
2 21	7 13.01	+17 2.6	1.689	2.494	16.1	21.0

67709 2000 TE_{40} 1 14.0 215°.51 1°.1/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.01	+15 33.4	2.239	3.061	11.9	19.9
12 23	7 58.19	+16 10.4	2.152	3.055	8.7	19.7
1 2	7 50.40	+16 56.9	2.092	3.048	5.1	19.5
1 12	7 41.34	+17 49.8	2.060	3.041	1.5	19.2
1 22	7 31.88	+18 45.3	2.059	3.034	3.2	19.3
2 1	7 23.03	+19 39.6	2.089	3.025	7.0	19.5
2 11	7 15.70	+20 29.7	2.146	3.017	10.5	19.7
2 21	7 10.54	+21 13.8	2.228	3.008	13.5	19.9

203853 2002 VK_{112} 1 14.0 59°.43 2°.4/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.45	+27 46.4	2.064	2.905	12.0	20.0
12 23	7 59.23	+28 6.0	2.004	2.917	8.7	19.8
1 2	7 50.91	+28 23.7	1.969	2.929	5.1	19.6
1 12	7 41.40	+28 35.6	1.962	2.941	2.4	19.5
1 22	7 31.77	+28 38.9	1.985	2.953	4.3	19.6
2 1	7 23.14	+28 32.7	2.037	2.965	7.7	19.9
2 11	7 16.41	+28 17.7	2.115	2.978	11.0	20.1
2 21	7 12.14	+27 56.0	2.216	2.990	13.7	20.3

334955 2004 CY_{104} 1 14.0 303°.72 7°.2/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.76	+ 7 41.5	1.011	1.859	21.0	20.6
12 23	7 59.99	+ 7 20.9	0.925	1.832	16.7	20.2
1 2	7 52.38	+ 7 26.7	0.857	1.806	11.8	19.9
1 12	7 41.80	+ 8 2.2	0.810	1.780	7.7	19.5
1 22	7 29.85	+ 9 6.1	0.785	1.754	8.4	19.5
2 1	7 18.71	+10 31.8	0.783	1.729	13.6	19.6
2 11	7 10.54	+12 9.1	0.801	1.704	19.5	19.9
2 21	7 6.69	+13 47.6	0.835	1.681	25.0	20.1

144820 2004 JW_5 1 14.0 336°.44 2°.3/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.66	+ 9 8.9	1.636	2.457	15.6	19.2
12 23	7 59.28	+10 44.8	1.554	2.452	11.8	18.9
1 2	7 51.30	+12 45.1	1.496	2.449	7.3	18.7
1 12	7 41.53	+15 3.8	1.466	2.445	2.9	18.4
1 22	7 31.12	+17 31.4	1.467	2.442	4.1	18.4
2 1	7 21.46	+19 57.0	1.499	2.439	8.8	18.7
2 11	7 13.80	+22 11.4	1.558	2.436	13.2	19.0
2 21	7 9.02	+24 9.4	1.640	2.434	16.9	19.2

351217 2004 NP_{27} 1 14.0 118°.44 1°.4/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.87	+27 27.4	1.702	2.530	14.7	21.4
12 23	8 8.96	+26 50.0	1.640	2.547	10.7	21.2
1 2	7 56.35	+26 6.9	1.604	2.563	6.1	20.9
1 12	7 42.32	+25 15.8	1.597	2.578	1.7	20.7
1 22	7 28.43	+24 16.7	1.621	2.593	4.3	20.9
2 1	7 16.19	+23 12.2	1.676	2.607	8.8	21.2
2 11	7 6.71	+22 6.3	1.758	2.621	12.8	21.5
2 21	7 0.52	+21 2.4	1.863	2.634	16.1	21.7

55240 2001 RP_{85} 1 14.0 220°.20 4°.3/16.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.76	+ 6 39.5	2.476	3.271	11.7	19.2
12 23	7 55.60	+ 6 32.0	2.392	3.268	9.2	19.0
1 2	7 48.83	+ 6 37.1	2.332	3.264	6.5	18.8
1 12	7 41.06	+ 6 54.6	2.301	3.261	4.5	18.7
1 22	7 33.04	+ 7 23.3	2.299	3.257	4.7	18.7
2 1	7 25.57	+ 8 0.7	2.327	3.253	7.0	18.8
2 11	7 19.39	+ 8 43.9	2.382	3.249	9.7	19.0
2 21	7 15.02	+ 9 29.4	2.461	3.245	12.2	19.1

53089 1998 YM_5 1 14.0 56°.08 3°.7/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.41	+26 19.0	1.636	2.486	14.2	17.9
12 23	8 0.63	+27 51.6	1.574	2.491	10.3	17.6
1 2	7 52.05	+29 27.5	1.537	2.497	6.2	17.4
1 12	7 41.65	+30 57.6	1.527	2.502	3.7	17.3
1 22	7 30.79	+32 13.8	1.546	2.508	6.1	17.4
2 1	7 20.97	+33 11.0	1.593	2.514	10.0	17.7
2 11	7 13.50	+33 48.5	1.665	2.520	13.8	17.9
2 21	7 9.16	+34 8.5	1.756	2.527	16.9	18.1

317610 2003 AO_{21} 1 14.0 348°.39 1°.3/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.86	+24 54.6	1.499	2.351	15.1	20.1
12 23	8 0.96	+24 49.2	1.428	2.347	11.0	19.8
1 2	7 52.21	+24 43.8	1.380	2.343	6.3	19.5
1 12	7 41.67	+24 34.6	1.358	2.340	1.6	19.2
1 22	7 30.80	+24 19.1	1.363	2.337	4.5	19.4
2 1	7 21.16	+23 56.6	1.396	2.335	9.4	19.7
2 11	7 14.02	+23 28.3	1.453	2.334	13.9	19.9
2 21	7 10.10	+22 56.2	1.530	2.333	17.6	20.2

239610 2008 UY_{211} 1 14.0 324°.65 3°.7/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.50	+29 5.0	1.804	2.654	13.0	20.3
12 23	7 58.46	+29 53.9	1.722	2.638	9.6	20.0
1 2	7 50.82	+30 42.4	1.664	2.622	6.0	19.8
1 12	7 41.45	+31 24.3	1.633	2.607	3.7	19.6
1 22	7 31.55	+31 54.2	1.630	2.592	5.7	19.7
2 1	7 22.49	+32 9.2	1.654	2.578	9.5	19.9
2 11	7 15.52	+32 9.2	1.703	2.564	13.2	20.1
2 21	7 11.44	+31 56.6	1.772	2.551	16.5	20.3

43646 2002 ER_{73} 1 14.0 11°.02 4°.3/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.67	+ 9 13.4	1.920	2.735	13.9	19.2
12 23	7 57.32	+ 8 59.7	1.845	2.735	10.7	19.0
1 2	7 49.93	+ 8 59.5	1.793	2.735	7.3	18.8
1 12	7 41.27	+ 9 12.7	1.768	2.736	4.6	18.6
1 22	7 32.32	+ 9 37.5	1.772	2.736	5.1	18.7
2 1	7 24.15	+10 11.0	1.804	2.737	8.1	18.8
2 11	7 17.69	+10 49.8	1.862	2.738	11.5	19.0
2 21	7 13.55	+11 30.2	1.942	2.739	14.6	19.2

334678 2003 AJ_{76} 1 14.0 336°.82 3°.2/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.90	+31 15.5	1.775	2.619	13.5	19.1
12 23	8 1.50	+31 0.6	1.692	2.605	10.0	18.9
1 2	7 52.43	+30 38.4	1.634	2.591	6.2	18.6
1 12	7 41.71	+30 5.0	1.602	2.579	3.3	18.4
1 22	7 30.70	+29 18.6	1.600	2.567	5.1	18.5
2 1	7 20.81	+28 20.4	1.625	2.556	9.1	18.7
2 11	7 13.26	+27 13.9	1.676	2.545	13.0	18.9
2 21	7 8.72	+26 3.2	1.749	2.536	16.4	19.1

226734 2004 PJ_{105} 1 14.0 97°.54 1°.0/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.99	+17 13.5	2.021	2.851	12.7	21.0
12 23	7 58.83	+17 29.3	1.960	2.866	9.2	20.8
1 2	7 50.69	+17 52.1	1.923	2.882	5.3	20.6
1 12	7 41.39	+18 19.2	1.916	2.897	1.5	20.3
1 22	7 31.95	+18 47.5	1.938	2.912	3.3	20.5
2 1	7 23.41	+19 14.5	1.989	2.927	7.2	20.8
2 11	7 16.66	+19 38.3	2.068	2.941	10.7	21.0
2 21	7 12.23	+19 57.9	2.169	2.956	13.6	21.2

358625 2007 VM_{153} 1 14.0 242°.73 3°.8/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.41	+28 29.5	1.632	2.479	14.3	20.9
12 23	8 2.14	+29 22.2	1.560	2.475	10.5	20.7
1 2	7 52.94	+30 14.5	1.512	2.471	6.5	20.5
1 12	7 41.83	+30 59.1	1.491	2.466	3.8	20.3
1 22	7 30.24	+31 30.0	1.499	2.462	6.0	20.4
2 1	7 19.74	+31 44.2	1.533	2.458	10.1	20.6
2 11	7 11.72	+31 42.5	1.592	2.453	14.0	20.9
2 21	7 6.95	+31 28.0	1.672	2.448	17.4	21.1

496059 2009 DL_{109} 1 14.0 317°.94 3°.2/15.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.94	+12 50.8	1.372	2.216	16.7	21.0
12 23	7 58.42	+12 59.2	1.290	2.200	12.7	20.7
1 2	7 50.97	+13 24.1	1.229	2.186	8.0	20.4
1 12	7 41.51	+14 4.0	1.194	2.172	3.7	20.1
1 22	7 31.37	+14 54.7	1.184	2.158	5.1	20.2
2 1	7 22.14	+15 50.8	1.201	2.145	10.0	20.4
2 11	7 15.25	+16 46.9	1.241	2.133	14.9	20.6
2 21	7 11.62	+17 38.7	1.300	2.121	19.1	20.9

283955 2004 QW_{19} 1 14.0 118°.08 2°.5/15.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.48	+13 8.5	1.813	2.632	14.4	21.6
12 23	8 1.45	+13 21.6	1.754	2.653	10.7	21.4
1 2	7 52.20	+13 46.0	1.720	2.672	6.5	21.2
1 12	7 41.67	+14 19.4	1.713	2.691	2.9	21.0
1 22	7 31.00	+14 58.2	1.737	2.709	4.1	21.1
2 1	7 21.38	+15 38.8	1.790	2.726	7.9	21.4
2 11	7 13.81	+16 18.0	1.869	2.743	11.6	21.7
2 21	7 8.85	+16 53.7	1.972	2.758	14.8	21.9

138210 2000 EA_{166} 1 14.0 30°.70 2°.1/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.41	+24 56.9	1.426	2.281	15.5	19.4
12 23	8 0.67	+25 24.1	1.367	2.288	11.2	19.2
1 2	7 52.04	+25 53.1	1.332	2.296	6.4	18.9
1 12	7 41.66	+26 18.3	1.322	2.303	2.2	18.7
1 22	7 31.03	+26 34.8	1.340	2.312	5.0	18.9
2 1	7 21.73	+26 40.3	1.384	2.321	9.7	19.2
2 11	7 15.03	+26 35.5	1.452	2.330	14.0	19.4
2 21	7 11.61	+26 22.1	1.540	2.340	17.6	19.7

463957 2014 VC_{12} 1 14.0 148°.68 3°.3/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.60	+27 37.1	2.064	2.902	12.1	20.9
12 23	8 0.31	+28 52.3	1.996	2.908	8.8	20.7
1 2	7 51.70	+30 8.1	1.955	2.912	5.4	20.5
1 12	7 41.61	+31 18.0	1.943	2.917	3.3	20.4
1 22	7 31.13	+32 16.2	1.961	2.921	5.2	20.5
2 1	7 21.48	+32 59.1	2.008	2.925	8.5	20.7
2 11	7 13.74	+33 26.5	2.082	2.929	11.8	20.9
2 21	7 8.61	+33 40.0	2.177	2.932	14.5	21.1

287551 2003 EW_{49} 1 14.0 283°.27 0°.0/14.0 18

12 13	8 6.01	+18 50.7	1.455	2.303	15.7	20.8
12 23	8 0.67	+19 32.3	1.371	2.288	11.5	20.5
1 2	7 52.28	+20 25.4	1.310	2.273	6.6	20.2
1 12	7 41.75	+21 24.9	1.275	2.257	1.1	19.8
1 22	7 30.47	+22 24.2	1.267	2.242	4.5	20.0
2 1	7 20.09	+23 17.5	1.287	2.227	10.0	20.2
2 11	7 12.10	+24 1.2	1.330	2.212	14.8	20.5
2 21	7 7.47	+24 34.2	1.394	2.197	19.0	20.7

116618 2004 BU_{116} 1 14.0 354°.86 6°.7/ 9.9 18

12 13	8 5.50	+35 33.8	1.902	2.744	12.8	18.1
12 23	8 0.03	+37 27.1	1.838	2.742	9.9	18.0
1 2	7 51.79	+39 15.7	1.800	2.740	7.5	17.8
1 12	7 41.65	+40 50.2	1.790	2.738	6.8	17.8
1 22	7 30.90	+42 2.7	1.808	2.737	8.4	17.9
2 1	7 21.02	+42 49.6	1.853	2.736	11.1	18.0
2 11	7 13.38	+43 11.8	1.921	2.736	13.9	18.2
2 21	7 8.81	+43 13.3	2.008	2.737	16.4	18.4

201198 2002 PD_{123} 1 14.1 105°.85 1°.7/14.6 18 R

12 13	8 4.32	+16 41.1	2.202	3.028	11.9	20.2
12 23	7 58.25	+16 26.7	2.131	3.034	8.8	20.0
1 2	7 50.35	+16 18.1	2.085	3.041	5.2	19.8
1 12	7 41.36	+16 14.2	2.068	3.047	2.0	19.6
1 22	7 32.21	+16 13.6	2.081	3.054	3.4	19.7
2 1	7 23.85	+16 14.9	2.124	3.060	6.9	20.0
2 11	7 17.12	+16 17.0	2.194	3.066	10.2	20.2
2 21	7 12.53	+16 19.1	2.287	3.073	13.0	20.4

181064 2005 QT_{4} 1 14.1 127°.41 11°.7/22.5 18

12 13	8 3.42	−16 22.6	2.128	2.795	17.1	20.0
12 23	7 57.71	−16 35.8	2.057	2.803	15.3	19.8
1 2	7 50.10	−16 18.5	2.003	2.810	13.6	19.7
1 12	7 41.33	−15 27.3	1.972	2.817	12.2	19.7
1 22	7 32.32	−14 3.0	1.964	2.824	11.7	19.6
2 1	7 24.06	−12 9.7	1.982	2.831	12.1	19.7
2 11	7 17.41	− 9 55.6	2.026	2.837	13.4	19.8
2 21	7 12.95	− 7 30.0	2.092	2.844	15.1	19.9

145399 2005 NJ_{56} 1 14.1 213°.53 1°.2/14.5 18

12 13	8 5.37	+16 42.2	1.904	2.735	13.3	20.7
12 23	7 59.42	+16 59.0	1.824	2.731	9.8	20.4
1 2	7 51.20	+17 24.4	1.769	2.727	5.7	20.2
1 12	7 41.54	+17 55.7	1.741	2.723	1.7	19.9
1 22	7 31.49	+18 29.4	1.744	2.718	3.6	20.0
2 1	7 22.24	+19 2.4	1.775	2.713	7.8	20.3
2 11	7 14.84	+19 32.2	1.832	2.708	11.7	20.5
2 21	7 9.98	+19 57.5	1.913	2.702	15.0	20.7

52865 1998 SH_{22} 1 14.1 44°.43 5°.1/13.0 17

12 13	8 11.75	+30 51.6	1.101	1.965	18.5	18.2
12 23	8 5.05	+31 23.9	1.060	1.982	13.6	18.0
1 2	7 54.62	+31 49.5	1.040	2.000	8.5	17.8
1 12	7 42.10	+31 59.8	1.044	2.019	5.1	17.6
1 22	7 29.64	+31 50.1	1.072	2.038	7.4	17.8
2 1	7 19.30	+31 21.0	1.125	2.057	12.0	18.1
2 11	7 12.52	+30 37.6	1.200	2.078	16.4	18.5
2 21	7 9.83	+29 45.6	1.293	2.098	20.1	18.8

73252 2002 JQ_{42} 1 14.1 183°.54 3°.6/15.5 18

12 13	8 5.54	+10 32.2	1.887	2.702	14.1	20.7
12 23	7 59.47	+10 32.3	1.810	2.702	10.7	20.5
1 2	7 51.20	+10 45.7	1.756	2.702	7.0	20.3
1 12	7 41.54	+11 11.4	1.730	2.702	4.0	20.1
1 22	7 31.54	+11 46.8	1.733	2.701	4.7	20.2
2 1	7 22.34	+12 28.5	1.765	2.700	8.2	20.4
2 11	7 14.97	+13 12.7	1.823	2.698	11.8	20.6
2 21	7 10.07	+13 56.3	1.905	2.696	15.0	20.8

416764 2005 EY_{215} 1 14.1 314°.44 0°.1/14.1 15

12 13	8 2.72	+20 12.4	1.838	2.681	13.1	21.4
12 23	7 57.74	+20 24.7	1.746	2.661	9.6	21.2
1 2	7 50.39	+20 42.9	1.678	2.640	5.5	20.9
1 12	7 41.43	+21 3.9	1.637	2.620	1.0	20.5
1 22	7 31.94	+21 24.5	1.625	2.600	3.7	20.7
2 1	7 23.16	+21 42.0	1.640	2.580	8.2	20.9
2 11	7 16.23	+21 54.8	1.682	2.561	12.4	21.1
2 21	7 11.92	+22 2.3	1.744	2.542	15.9	21.3

408717 2014 OK_{15} 1 14.1 226°.54 0°.3/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 9.52	+21 54.3	1.868	2.701	13.4	21.6
12 23	8 2.57	+22 1.7	1.781	2.691	9.8	21.3
1 2	7 53.07	+22 12.3	1.719	2.680	5.6	21.1
1 12	7 41.90	+22 22.6	1.685	2.668	1.0	20.7
1 22	7 30.25	+22 29.6	1.681	2.655	3.8	20.9
2 1	7 19.48	+22 31.3	1.707	2.642	8.4	21.2
2 11	7 10.77	+22 27.5	1.759	2.628	12.5	21.4
2 21	7 4.88	+22 19.0	1.833	2.614	15.9	21.6

468403 2016 GX_{132} 1 14.1 152°.03 2°.8/15.6 18

12 13	8 2.06	+10 39.0	2.227	3.039	12.3	20.9
12 23	7 56.71	+11 2.6	2.149	3.042	9.3	20.7
1 2	7 49.55	+11 38.7	2.096	3.044	6.0	20.5
1 12	7 41.27	+12 25.3	2.072	3.046	3.1	20.3
1 22	7 32.71	+13 19.3	2.078	3.048	3.8	20.4
2 1	7 24.79	+14 16.9	2.113	3.050	6.9	20.6
2 11	7 18.35	+15 14.5	2.176	3.051	10.2	20.8
2 21	7 13.96	+16 9.0	2.264	3.053	13.0	21.0

81812 2000 KX_{18} 1 14.1 243°.27 2°.0/13.2 18

12 13	8 6.57	+25 18.8	2.043	2.881	12.2	20.0
12 23	8 0.37	+25 58.1	1.957	2.869	8.9	19.7
1 2	7 51.81	+26 39.4	1.896	2.856	5.2	19.5
1 12	7 41.69	+27 17.9	1.863	2.843	2.1	19.3
1 22	7 31.08	+27 49.0	1.861	2.830	4.3	19.4
2 1	7 21.21	+28 10.0	1.888	2.816	8.2	19.6
2 11	7 13.20	+28 20.2	1.941	2.802	11.9	19.8
2 21	7 7.78	+28 20.9	2.016	2.787	15.0	20.0

424959 2008 YG_{165} 1 14.1 330°.32 3°.4/13.4 18

12 13	8 11.72	+33 29.9	2.224	3.050	11.8	20.7
12 23	8 3.69	+33 13.2	2.146	3.048	8.8	20.5
1 2	7 53.44	+32 48.1	2.094	3.045	5.6	20.3
1 12	7 41.94	+32 11.1	2.072	3.043	3.4	20.1
1 22	7 30.36	+31 21.2	2.080	3.041	4.8	20.2
2 1	7 19.91	+30 19.8	2.119	3.040	7.9	20.4
2 11	7 11.55	+29 10.5	2.186	3.038	11.1	20.6
2 21	7 5.83	+27 57.3	2.277	3.036	13.8	20.8

285766 2000 UG_{50} 1 14.1 54°.30 4°.4/12.3 18

12 13	8 8.91	+29 37.8	1.577	2.425	14.7	19.9
12 23	8 2.18	+30 51.0	1.541	2.455	10.7	19.8
1 2	7 52.75	+32 0.2	1.529	2.486	6.7	19.6
1 12	7 41.82	+32 57.4	1.545	2.516	4.4	19.5
1 22	7 30.87	+33 37.1	1.589	2.547	6.4	19.7
2 1	7 21.38	+33 57.3	1.659	2.578	9.9	20.0
2 11	7 14.48	+34 0.2	1.754	2.608	13.3	20.3
2 21	7 10.72	+33 49.3	1.870	2.639	16.1	20.5

244279 2002 EU_{27} 1 14.1 269°.01 0°.0/14.1 18

12 13	8 6.29	+19 24.9	1.628	2.470	14.6	20.5
12 23	8 0.58	+19 53.7	1.543	2.457	10.7	20.3
1 2	7 52.12	+20 31.0	1.481	2.443	6.1	20.0
1 12	7 41.77	+21 12.7	1.446	2.429	1.1	19.6
1 22	7 30.80	+21 53.7	1.440	2.415	4.1	19.8
2 1	7 20.67	+22 29.9	1.461	2.400	9.1	20.0
2 11	7 12.73	+22 58.8	1.508	2.386	13.6	20.3
2 21	7 7.82	+23 19.8	1.575	2.371	17.5	20.5

418865 2008 WR_{134} 1 14.1 277°.89 0°.3/14.2 15

12 13	8 1.97	+17 24.9	2.392	3.220	11.0	21.5
12 23	7 56.76	+18 14.2	2.296	3.202	8.1	21.3
1 2	7 49.68	+19 12.2	2.225	3.185	4.6	21.1
1 12	7 41.33	+20 15.6	2.184	3.167	0.9	20.7
1 22	7 32.51	+21 20.1	2.174	3.149	3.0	20.9
2 1	7 24.17	+22 21.7	2.195	3.131	6.7	21.1
2 11	7 17.18	+23 17.5	2.243	3.112	10.2	21.3
2 21	7 12.21	+24 5.6	2.316	3.094	13.1	21.4

82006 2000 RA_{18} 1 14.1 153°.56 0°.8/14.4 18

12 13	8 2.39	+18 12.5	2.657	3.481	10.2	19.7
12 23	7 56.68	+18 13.7	2.581	3.485	7.4	19.5
1 2	7 49.43	+18 19.2	2.531	3.489	4.3	19.3
1 12	7 41.26	+18 27.4	2.511	3.492	1.2	19.1
1 22	7 32.92	+18 36.7	2.522	3.496	2.7	19.2
2 1	7 25.19	+18 45.6	2.563	3.499	5.9	19.4
2 11	7 18.78	+18 53.1	2.632	3.501	8.8	19.6
2 21	7 14.17	+18 58.7	2.726	3.504	11.3	19.8

400031 2006 QX_{105} 1 14.1 66°.80 3°.8/15.5 16

12 13	8 6.61	+10 52.7	1.554	2.379	16.0	21.3
12 23	8 0.28	+10 52.8	1.506	2.405	12.1	21.1
1 2	7 51.60	+11 8.0	1.482	2.431	7.8	20.9
1 12	7 41.63	+11 36.5	1.484	2.457	4.2	20.8
1 22	7 31.62	+12 14.5	1.513	2.483	5.0	20.9
2 1	7 22.84	+12 57.8	1.570	2.508	8.7	21.2
2 11	7 16.29	+13 42.3	1.653	2.534	12.5	21.5
2 21	7 12.51	+14 24.5	1.758	2.559	15.7	21.7

463836 2014 TZ_{68} 1 14.1 193°.97 0°.3/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 5.61	+19 2.0	2.165	2.994	12.0	21.9
12 23	7 59.39	+19 23.6	2.085	2.992	8.7	21.7
1 2	7 51.12	+19 50.9	2.030	2.990	5.0	21.4
1 12	7 41.57	+20 21.1	2.005	2.987	1.0	21.1
1 22	7 31.70	+20 50.9	2.010	2.984	3.2	21.3
2 1	7 22.55	+21 17.5	2.044	2.980	7.2	21.5
2 11	7 15.07	+21 39.6	2.107	2.976	10.7	21.8
2 21	7 9.89	+21 56.3	2.192	2.971	13.7	22.0

78180 2002 NU_{34} 1 14.1 76°.96 3°.0/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.70	+12 51.5	2.085	2.904	12.7	19.5
12 23	7 57.88	+12 31.8	2.016	2.913	9.6	19.3
1 2	7 50.19	+12 21.3	1.973	2.922	6.1	19.1
1 12	7 41.40	+12 19.4	1.958	2.931	3.3	18.9
1 22	7 32.44	+12 24.9	1.972	2.940	4.1	19.0
2 1	7 24.30	+12 35.9	2.015	2.950	7.3	19.2
2 11	7 17.81	+12 50.4	2.085	2.959	10.6	19.4
2 21	7 13.51	+13 6.4	2.177	2.968	13.4	19.6

320942 Jeanette–Jesse 1 14.1 285°.70 1°.0/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.67	+17 53.2	1.778	2.616	13.8	21.0
12 23	7 59.09	+18 2.7	1.697	2.608	10.1	20.8
1 2	7 51.12	+18 19.8	1.641	2.601	5.9	20.5
1 12	7 41.59	+18 42.1	1.611	2.593	1.5	20.2
1 22	7 31.65	+19 6.2	1.611	2.586	3.7	20.3
2 1	7 22.54	+19 29.3	1.638	2.578	8.2	20.6
2 11	7 15.40	+19 49.3	1.692	2.571	12.3	20.8
2 21	7 10.93	+20 5.1	1.767	2.564	15.8	21.0

452214 2015 RZ_{216} 1 14.1 106°.47 2°.5/14.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.13	+13 49.0	1.506	2.338	16.1	21.6
12 23	8 1.66	+14 3.9	1.446	2.352	11.9	21.4
1 2	7 52.54	+14 32.0	1.410	2.365	7.3	21.1
1 12	7 41.83	+15 10.3	1.400	2.379	2.9	20.9
1 22	7 30.89	+15 54.5	1.418	2.391	4.5	21.0
2 1	7 21.14	+16 39.9	1.464	2.404	9.0	21.3
2 11	7 13.78	+17 22.7	1.535	2.416	13.2	21.6
2 21	7 9.43	+18 0.7	1.627	2.428	16.8	21.9

234207 2000 RV_{88} 1 14.1 163°.26 6°.0/18.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.82	− 3 58.1	3.242	3.971	10.6	21.9
12 23	7 54.60	− 4 14.5	3.163	3.977	8.9	21.8
1 2	7 48.18	− 4 16.3	3.107	3.982	7.3	21.7
1 12	7 41.06	− 4 2.5	3.079	3.987	6.2	21.6
1 22	7 33.77	− 3 33.8	3.080	3.991	6.1	21.6
2 1	7 26.93	− 2 52.0	3.109	3.995	7.0	21.7
2 11	7 21.06	− 2 0.0	3.166	3.998	8.5	21.8
2 21	7 16.57	− 1 1.5	3.248	4.001	10.2	21.9

5799 Brewington 1 14.1 104°.47 6°.5/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.58	+38 22.9	1.925	2.753	13.3	17.8
12 23	8 4.78	+39 20.3	1.876	2.769	10.3	17.6
1 2	7 54.24	+40 6.9	1.850	2.785	7.7	17.5
1 12	7 42.11	+40 35.2	1.853	2.801	6.5	17.5
1 22	7 29.88	+40 41.1	1.883	2.817	7.8	17.6
2 1	7 19.02	+40 24.8	1.941	2.832	10.3	17.8
2 11	7 10.73	+39 50.1	2.023	2.846	13.0	18.0
2 21	7 5.60	+39 2.3	2.127	2.861	15.4	18.2

354174 2002 CQ_{293} 1 14.1 359°.15 1°.6/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.67	+16 49.9	1.132	1.995	18.1	20.6
12 23	7 58.54	+17 2.0	1.069	1.992	13.4	20.3
1 2	7 51.14	+17 27.8	1.026	1.990	7.9	20.0
1 12	7 41.63	+18 3.7	1.007	1.989	2.3	19.7
1 22	7 31.62	+18 44.1	1.012	1.989	4.9	19.8
2 1	7 22.93	+19 23.7	1.042	1.990	10.6	20.2
2 11	7 17.06	+19 58.4	1.094	1.993	15.8	20.5
2 21	7 14.84	+20 26.1	1.164	1.997	20.1	20.7

112791 2002 PE_{164} 1 14.1 33°.00 0°.1/14.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.44	+20 25.6	1.652	2.500	14.1	19.4
12 23	7 58.13	+20 46.5	1.597	2.514	10.2	19.2
1 2	7 50.48	+21 13.1	1.565	2.528	5.7	18.9
1 12	7 41.47	+21 41.5	1.561	2.543	1.0	18.6
1 22	7 32.31	+22 7.8	1.584	2.559	3.8	18.9
2 1	7 24.24	+22 29.3	1.635	2.576	8.2	19.2
2 11	7 18.29	+22 44.6	1.711	2.593	12.1	19.5
2 21	7 15.03	+22 53.5	1.809	2.610	15.3	19.7

181465 2006 TX_{54} 1 14.1 132°.70 1°.7/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.04	+14 41.0	2.131	2.950	12.5	21.1
12 23	7 59.56	+15 0.1	2.064	2.964	9.2	20.9
1 2	7 51.14	+15 28.1	2.023	2.978	5.5	20.7
1 12	7 41.58	+16 2.5	2.012	2.991	2.1	20.5
1 22	7 31.84	+16 40.2	2.030	3.003	3.4	20.7
2 1	7 22.92	+17 18.1	2.079	3.015	7.0	20.9
2 11	7 15.70	+17 53.8	2.155	3.026	10.4	21.1
2 21	7 10.73	+18 25.5	2.255	3.037	13.3	21.4

38898 2000 SD_{155} 1 14.1 132°.83 0°.2/14.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 8.71	+20 2.3	1.891	2.723	13.3	20.1
12 23	8 1.72	+20 34.0	1.828	2.737	9.6	19.9
1 2	7 52.45	+21 11.1	1.790	2.751	5.4	19.7
1 12	7 41.82	+21 49.5	1.781	2.764	0.9	19.4
1 22	7 30.98	+22 25.0	1.803	2.777	3.6	19.6
2 1	7 21.15	+22 54.7	1.853	2.788	7.8	19.9
2 11	7 13.35	+23 17.3	1.931	2.799	11.6	20.2
2 21	7 8.20	+23 32.8	2.031	2.810	14.7	20.4

129176 Gerardcarter 1 14.1 121°.38 5°.1/16.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.78	+ 3 1.0	2.675	3.451	11.5	20.2
12 23	7 55.47	+ 2 44.9	2.604	3.461	9.2	20.1
1 2	7 48.73	+ 2 42.3	2.557	3.471	6.9	20.0
1 12	7 41.17	+ 2 53.6	2.537	3.481	5.3	19.9
1 22	7 33.45	+ 3 17.8	2.547	3.491	5.3	19.9
2 1	7 26.31	+ 3 52.6	2.586	3.501	7.0	20.0
2 11	7 20.37	+ 4 35.1	2.653	3.510	9.2	20.2
2 21	7 16.09	+ 5 21.8	2.744	3.519	11.3	20.3

432128 2009 BZ_{46} 1 14.1 18°.99 3°.4/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.34	+10 9.8	1.853	2.677	13.9	20.9
12 23	7 55.73	+10 26.9	1.785	2.682	10.6	20.7
1 2	7 49.11	+10 58.7	1.740	2.689	6.9	20.5
1 12	7 41.25	+11 43.5	1.723	2.696	3.8	20.3
1 22	7 33.14	+12 37.7	1.733	2.703	4.4	20.3
2 1	7 25.83	+13 36.9	1.772	2.711	7.8	20.6
2 11	7 20.23	+14 36.7	1.837	2.720	11.3	20.8
2 21	7 16.94	+15 33.2	1.924	2.730	14.4	21.0

408629 2014 KM_{99} 1 14.1 114°.07 1°.3/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.59	+21 47.0	1.659	2.500	14.4	21.0
12 23	8 1.96	+22 39.8	1.599	2.513	10.4	20.8
1 2	7 52.72	+23 38.2	1.564	2.526	5.8	20.5
1 12	7 41.89	+24 35.9	1.557	2.539	1.5	20.3
1 22	7 30.78	+25 27.1	1.579	2.552	4.3	20.5
2 1	7 20.82	+26 7.8	1.630	2.563	8.8	20.8
2 11	7 13.16	+26 36.8	1.706	2.575	12.8	21.1
2 21	7 8.47	+26 54.8	1.803	2.586	16.1	21.3

468248 2015 BD_{258} 1 14.1 26°.53 1°.7/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.96	+13 56.6	2.089	2.915	12.5	20.8
12 23	7 56.79	+14 29.2	2.013	2.916	9.2	20.6
1 2	7 49.68	+15 12.7	1.962	2.917	5.6	20.3
1 12	7 41.36	+16 4.4	1.939	2.918	2.1	20.1
1 22	7 32.73	+17 0.4	1.946	2.920	3.4	20.2
2 1	7 24.78	+17 56.8	1.982	2.921	7.1	20.4
2 11	7 18.43	+18 50.1	2.045	2.923	10.6	20.7
2 21	7 14.26	+19 38.0	2.132	2.924	13.6	20.9

80062 1999 JX_{85} 1 14.1 173°.97 2°.6/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.67	+29 29.9	2.935	3.764	9.2	19.9
12 23	7 57.67	+30 15.6	2.861	3.766	6.7	19.8
1 2	7 50.04	+30 59.7	2.814	3.768	4.2	19.6
1 12	7 41.41	+31 38.4	2.798	3.770	2.6	19.5
1 22	7 32.55	+32 8.6	2.813	3.771	3.9	19.6
2 1	7 24.26	+32 28.7	2.858	3.772	6.4	19.8
2 11	7 17.29	+32 38.6	2.931	3.772	8.9	19.9
2 21	7 12.16	+32 39.3	3.028	3.772	11.1	20.1

382243 2012 SV_{39} 1 14.1 282°.85 0°.9/13.7 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.67	+23 40.2	2.250	3.087	11.3	20.8
12 23	7 58.01	+23 54.5	2.166	3.079	8.2	20.6
1 2	7 50.37	+24 10.4	2.109	3.070	4.6	20.4
1 12	7 41.48	+24 25.0	2.080	3.062	1.2	20.1
1 22	7 32.29	+24 35.5	2.081	3.054	3.4	20.2
2 1	7 23.80	+24 40.4	2.111	3.045	7.1	20.5
2 11	7 16.93	+24 39.1	2.169	3.037	10.5	20.7
2 21	7 12.28	+24 32.3	2.249	3.029	13.4	20.8

347676 2001 UR_{94} 1 14.1 51°.61 1°.7/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.48	+20 39.9	1.116	1.977	18.5	19.5
12 23	8 3.14	+22 0.1	1.084	2.007	13.2	19.3
1 2	7 53.49	+23 28.2	1.073	2.038	7.3	19.0
1 12	7 42.01	+24 54.1	1.087	2.069	1.9	18.8
1 22	7 30.55	+26 8.1	1.127	2.100	5.4	19.1
2 1	7 20.94	+27 4.9	1.193	2.132	10.7	19.5
2 11	7 14.50	+27 43.4	1.281	2.163	15.3	19.9
2 21	7 11.77	+28 5.8	1.389	2.195	18.9	20.2

498993 2009 BZ_{175} 1 14.1 280°.00 9°.8/11.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.53	+54 30.1	2.447	3.206	12.8	20.6
12 23	8 12.07	+55 3.2	2.378	3.198	11.3	20.5
1 2	7 58.36	+55 15.4	2.333	3.190	10.2	20.4
1 12	7 42.85	+54 59.4	2.313	3.182	9.8	20.4
1 22	7 27.40	+54 12.0	2.320	3.174	10.3	20.4
2 1	7 13.83	+52 55.1	2.353	3.166	11.7	20.5
2 11	7 3.47	+51 15.2	2.409	3.158	13.4	20.6
2 21	6 56.86	+49 20.5	2.487	3.150	15.1	20.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
134180 Nirajinamdar			1 14.1 86°.54 1°.3/13.5 18			
	h m	° ′			°	m
12 13	8 6.80	+20 17.5	1.569	2.413	14.9	19.6
12 23	8 0.87	+21 34.2	1.506	2.422	10.8	19.4
1 2	7 52.22	+23 0.0	1.468	2.431	6.0	19.1
1 12	7 41.83	+24 27.3	1.458	2.440	1.5	18.9
1 22	7 31.03	+25 48.4	1.477	2.449	4.6	19.1
2 1	7 21.30	+26 57.2	1.524	2.458	9.3	19.4
2 11	7 13.91	+27 51.0	1.596	2.467	13.4	19.7
2 21	7 9.58	+28 29.9	1.689	2.475	16.8	19.9
74150 1998 QR_{89}			1 14.1 30°.32 2°.2/13.8 18			
12 13	8 10.79	+27 51.8	1.092	1.957	18.5	17.3
12 23	8 4.06	+27 24.3	1.054	1.978	13.4	17.1
1 2	7 53.92	+26 52.3	1.037	2.001	7.6	16.8
1 12	7 42.07	+26 12.4	1.044	2.025	2.5	16.6
1 22	7 30.49	+25 23.9	1.076	2.050	5.4	16.9
2 1	7 21.03	+24 29.2	1.134	2.076	10.7	17.2
2 11	7 14.91	+23 32.3	1.214	2.104	15.3	17.6
2 21	7 12.55	+22 36.4	1.313	2.132	19.1	17.9
412748 2014 OD_{367}			1 14.1 170°.45 0°.7/13.8 18			
12 13	8 8.00	+22 4.3	2.067	2.899	12.4	21.9
12 23	8 1.18	+22 29.6	1.993	2.903	8.9	21.7
1 2	7 52.17	+22 58.3	1.945	2.906	5.0	21.5
1 12	7 41.81	+23 26.5	1.927	2.909	1.0	21.2
1 22	7 31.16	+23 50.7	1.938	2.911	3.6	21.4
2 1	7 21.38	+24 8.6	1.980	2.913	7.6	21.6
2 11	7 13.46	+24 19.5	2.048	2.913	11.1	21.9
2 21	7 8.03	+24 23.8	2.140	2.914	14.2	22.1
7818 Muirhead			1 14.1 28°.39 16°.8/27.7 18			
12 13	8 0.40	−18 18.7	0.875	1.632	30.5	16.0
12 23	7 56.77	−17 55.5	0.848	1.662	26.9	15.9
1 2	7 49.94	−16 27.9	0.833	1.694	23.0	15.7
1 12	7 41.40	−13 54.0	0.833	1.729	19.4	15.7
1 22	7 32.94	−10 23.8	0.851	1.765	17.1	15.7
2 1	7 26.30	− 6 17.9	0.892	1.803	17.0	15.8
2 11	7 22.69	− 2 2.1	0.954	1.842	18.7	16.1
2 21	7 22.59	+ 2 1.1	1.038	1.882	21.2	16.4
494830 2007 TG_{253}			1 14.1 96°.64 0°.7/13.8 18			
12 13	8 4.04	+22 23.3	2.404	3.236	10.8	22.0
12 23	7 57.99	+22 47.1	2.343	3.253	7.8	21.9
1 2	7 50.21	+23 13.2	2.309	3.270	4.3	21.7
1 12	7 41.45	+23 38.5	2.304	3.287	0.9	21.4
1 22	7 32.58	+24 0.4	2.330	3.303	3.1	21.6
2 1	7 24.48	+24 17.0	2.386	3.319	6.4	21.9
2 11	7 17.93	+24 27.7	2.470	3.335	9.5	22.1
2 21	7 13.43	+24 32.6	2.577	3.351	12.0	22.3
462360 2008 RL_{123}			1 14.1 179°.14 3°.0/12.9 18			
12 13	8 6.42	+29 9.4	2.091	2.930	12.0	21.5
12 23	8 0.12	+29 38.7	2.019	2.930	8.8	21.3
1 2	7 51.60	+30 5.6	1.973	2.930	5.3	21.0
1 12	7 41.72	+30 25.4	1.955	2.930	3.0	20.9
1 22	7 31.57	+30 34.8	1.966	2.930	4.7	21.0
2 1	7 22.33	+30 32.4	2.007	2.930	8.1	21.2
2 11	7 15.00	+30 19.0	2.073	2.930	11.4	21.4
2 21	7 10.22	+29 57.0	2.162	2.930	14.2	21.6
418718 2008 UP_{83}			1 14.1 90°.85 1°.9/14.8 18			
12 13	8 4.48	+15 46.1	2.126	2.951	12.3	20.8
12 23	7 58.43	+15 35.1	2.060	2.962	9.1	20.6
1 2	7 50.51	+15 31.0	2.019	2.974	5.5	20.4
1 12	7 41.52	+15 32.5	2.006	2.985	2.2	20.2
1 22	7 32.38	+15 38.2	2.023	2.996	3.5	20.3
2 1	7 24.07	+15 46.3	2.070	3.007	7.0	20.6
2 11	7 17.44	+15 55.2	2.144	3.018	10.3	20.8
2 21	7 13.00	+16 3.8	2.241	3.029	13.2	21.0
124580 2001 SJ_{15}			1 14.1 86°.49 3°.2/13.2 17			
12 13	8 11.40	+27 8.2	1.425	2.275	15.9	19.9
12 23	8 4.28	+27 48.0	1.374	2.291	11.5	19.7
1 2	7 54.11	+28 26.7	1.347	2.307	6.8	19.5
1 12	7 42.16	+28 57.3	1.345	2.324	3.2	19.3
1 22	7 30.07	+29 14.7	1.372	2.340	5.7	19.5
2 1	7 19.53	+29 17.2	1.425	2.355	10.1	19.8
2 11	7 11.84	+29 6.4	1.502	2.371	14.2	20.1
2 21	7 7.62	+28 45.9	1.600	2.386	17.6	20.3
245076 2004 HC_{64}			1 14.1 226°.81 5°.8/17.4 18			
12 13	7 59.70	− 0 18.1	2.777	3.536	11.5	20.8
12 23	7 54.77	− 0 29.4	2.689	3.530	9.5	20.6
1 2	7 48.41	− 0 25.5	2.624	3.524	7.5	20.5
1 12	7 41.17	− 0 5.7	2.586	3.517	6.0	20.4
1 22	7 33.68	+ 0 29.3	2.577	3.511	6.0	20.4
2 1	7 26.64	+ 1 17.3	2.597	3.504	7.3	20.4
2 11	7 20.70	+ 2 14.8	2.645	3.497	9.4	20.6
2 21	7 16.36	+ 3 17.8	2.717	3.489	11.5	20.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
159249 2005 YC_{91}			1 14.1 72°.33 1°.4/14.6 18			
	h m	° ′			°	m
12 13	8 6.76	+15 27.9	1.385	2.228	16.6	20.3
12 23	8 0.93	+16 3.9	1.327	2.240	12.2	20.1
1 2	7 52.27	+16 53.6	1.291	2.251	7.1	19.8
1 12	7 41.86	+17 52.2	1.281	2.263	2.1	19.6
1 22	7 31.15	+18 53.4	1.299	2.274	4.3	19.7
2 1	7 21.68	+19 51.4	1.343	2.286	9.4	20.1
2 11	7 14.73	+20 42.3	1.412	2.297	13.9	20.4
2 21	7 10.98	+21 24.1	1.502	2.309	17.6	20.6
423588 2005 VJ_{109}			1 14.1 41°.35 3°.9/12.6 18			
12 13	8 6.53	+28 58.0	1.599	2.450	14.3	20.8
12 23	8 0.67	+29 52.1	1.544	2.460	10.5	20.6
1 2	7 52.07	+30 44.4	1.512	2.471	6.5	20.4
1 12	7 41.82	+31 27.7	1.508	2.482	3.9	20.2
1 22	7 31.32	+31 56.8	1.530	2.493	6.0	20.4
2 1	7 22.06	+32 9.1	1.580	2.505	9.8	20.6
2 11	7 15.26	+32 6.1	1.654	2.517	13.5	20.9
2 21	7 11.56	+31 50.6	1.749	2.529	16.6	21.1
305734 2009 CY_{44}			1 14.1 13°.33 5°.0/16.1 18			
12 13	8 2.52	+ 8 31.4	1.266	2.104	18.2	20.1
12 23	7 58.08	+ 8 41.5	1.202	2.106	14.1	19.8
1 2	7 50.76	+ 9 14.3	1.160	2.109	9.4	19.6
1 12	7 41.62	+10 8.2	1.141	2.112	5.5	19.4
1 22	7 32.06	+11 18.4	1.147	2.117	6.1	19.4
2 1	7 23.63	+12 37.5	1.179	2.123	10.3	19.6
2 11	7 17.68	+13 57.9	1.234	2.129	14.8	19.9
2 21	7 14.96	+15 13.4	1.309	2.136	18.7	20.2
63713 2001 QY_{206}			1 14.1 312°.80 1°.0/13.7 18			
12 13	8 3.05	+23 2.3	2.006	2.848	12.2	19.0
12 23	7 57.83	+23 24.7	1.920	2.835	8.9	18.8
1 2	7 50.40	+23 50.4	1.860	2.823	5.0	18.5
1 12	7 41.55	+24 15.6	1.828	2.810	1.2	18.2
1 22	7 32.28	+24 37.0	1.824	2.798	3.7	18.4
2 1	7 23.74	+24 52.1	1.850	2.785	7.8	18.6
2 11	7 16.96	+24 59.9	1.901	2.774	11.5	18.8
2 21	7 12.63	+25 0.8	1.975	2.762	14.7	19.0
224015 2005 JF_{19}			1 14.1 68°.32 2°.9/14.9 17			
12 13	8 9.50	+14 49.9	1.189	2.035	18.6	20.3
12 23	8 3.05	+14 42.1	1.140	2.053	13.7	20.0
1 2	7 53.47	+14 48.1	1.112	2.070	8.3	19.8
1 12	7 42.07	+15 5.4	1.108	2.087	3.4	19.6
1 22	7 30.56	+15 29.8	1.131	2.105	5.2	19.7
2 1	7 20.65	+15 57.5	1.179	2.123	10.3	20.1
2 11	7 13.66	+16 24.8	1.251	2.140	15.0	20.4
2 21	7 10.22	+16 49.4	1.342	2.158	18.9	20.7
182450 2001 SJ_{46}			1 14.1 134°.89 0°.3/13.9 18			
12 13	8 6.06	+20 22.3	2.029	2.863	12.5	20.7
12 23	7 59.78	+20 52.9	1.961	2.871	9.0	20.5
1 2	7 51.39	+21 28.6	1.919	2.880	5.1	20.2
1 12	7 41.71	+22 5.6	1.905	2.888	0.9	19.9
1 22	7 31.79	+22 40.2	1.922	2.896	3.4	20.2
2 1	7 22.74	+23 9.4	1.968	2.903	7.4	20.4
2 11	7 15.51	+23 31.9	2.041	2.911	11.0	20.7
2 21	7 10.70	+23 47.5	2.137	2.917	14.0	20.9
6519 Giono			1 14.1 204°.39 2°.9/15.1 18			
12 13	8 8.00	+12 43.9	1.708	2.531	15.0	18.0
12 23	8 1.59	+12 53.5	1.627	2.527	11.3	17.8
1 2	7 52.61	+13 16.4	1.570	2.522	7.1	17.5
1 12	7 41.96	+13 50.5	1.540	2.517	3.3	17.3
1 22	7 30.81	+14 32.4	1.538	2.510	4.5	17.3
2 1	7 20.54	+15 17.9	1.566	2.504	8.8	17.6
2 11	7 12.33	+16 3.1	1.620	2.496	12.9	17.8
2 21	7 6.94	+16 45.4	1.695	2.488	16.5	18.0
33886 Lilydeveau			1 14.1 190°.65 0°.3/14.2 18			
12 13	8 5.61	+19 15.8	1.979	2.813	12.8	19.8
12 23	7 59.56	+19 33.6	1.903	2.812	9.3	19.6
1 2	7 51.33	+19 57.3	1.851	2.812	5.3	19.3
1 12	7 41.72	+20 23.9	1.828	2.810	1.0	19.0
1 22	7 31.78	+20 50.0	1.834	2.809	3.4	19.2
2 1	7 22.67	+21 13.0	1.870	2.807	7.6	19.4
2 11	7 15.37	+21 31.4	1.932	2.805	11.3	19.7
2 21	7 10.55	+21 44.6	2.017	2.803	14.5	19.9
182528 2001 TY_{9}			1 14.1 126°.38 3°.0/15.4 18			
12 13	8 4.85	+11 48.6	2.018	2.834	13.2	20.9
12 23	7 58.82	+11 51.9	1.949	2.844	9.9	20.7
1 2	7 50.81	+12 6.5	1.905	2.854	6.3	20.5
1 12	7 41.62	+12 31.1	1.889	2.863	3.3	20.3
1 22	7 32.21	+13 3.1	1.902	2.872	4.1	20.4
2 1	7 23.62	+13 39.4	1.945	2.881	7.5	20.6
2 11	7 16.74	+14 16.9	2.014	2.889	10.9	20.8
2 21	7 12.16	+14 53.0	2.107	2.897	13.8	21.0

442649 2012 TU_{124} 1 14.1 156°.12 1°.7/13.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 11.93	+23 43.6	1.832	2.664	13.7	22.2
12 23	8 4.27	+24 30.4	1.765	2.675	9.9	22.0
1 2	7 54.03	+25 20.0	1.724	2.685	5.6	21.8
1 12	7 42.19	+26 6.5	1.712	2.693	1.8	21.5
1 22	7 30.05	+26 44.9	1.730	2.701	4.4	21.7
2 1	7 18.98	+27 12.2	1.778	2.707	8.6	22.0
2 11	7 10.15	+27 27.9	1.852	2.712	12.4	22.2
2 21	7 4.26	+27 33.7	1.949	2.717	15.6	22.5

204313 2004 RL_{32} 1 14.1 41°.61 2°.7/13.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.31	+25 27.3	1.075	1.943	18.6	20.0
12 23	8 3.19	+26 1.6	1.040	1.965	13.4	19.7
1 2	7 53.59	+26 36.8	1.025	1.989	7.6	19.5
1 12	7 42.10	+27 5.1	1.033	2.014	2.9	19.3
1 22	7 30.68	+27 20.9	1.067	2.040	5.9	19.6
2 1	7 21.25	+27 22.6	1.126	2.066	11.1	19.9
2 11	7 15.13	+27 11.9	1.206	2.092	15.7	20.3
2 21	7 12.83	+26 52.1	1.306	2.120	19.4	20.6

347860 2002 RG_{175} 1 14.1 165°.26 2°.0/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.25	+15 30.6	1.826	2.647	14.2	22.5
12 23	8 2.94	+15 30.1	1.753	2.654	10.5	22.3
1 2	7 53.24	+15 38.3	1.705	2.660	6.3	22.1
1 12	7 42.06	+15 53.1	1.686	2.665	2.4	21.8
1 22	7 30.60	+16 11.8	1.696	2.669	4.0	21.9
2 1	7 20.12	+16 31.8	1.736	2.672	8.2	22.2
2 11	7 11.72	+16 51.3	1.803	2.674	12.1	22.4
2 21	7 6.04	+17 8.7	1.892	2.676	15.4	22.7

323820 2005 SG_{22} 1 14.1 119°.79 0°.5/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.33	+18 7.6	1.977	2.809	12.8	21.4
12 23	7 59.28	+18 35.6	1.909	2.818	9.3	21.2
1 2	7 51.12	+19 10.6	1.867	2.827	5.3	21.0
1 12	7 41.68	+19 49.4	1.854	2.836	1.1	20.7
1 22	7 32.01	+20 28.1	1.870	2.845	3.4	20.9
2 1	7 23.20	+21 3.5	1.916	2.854	7.4	21.1
2 11	7 16.21	+21 33.6	1.988	2.862	11.0	21.4
2 21	7 11.64	+21 57.6	2.084	2.870	14.1	21.6

36685 2000 RC_{3} 1 14.1 144°.46 1°.0/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.19	+23 15.9	2.160	2.994	11.8	20.0
12 23	7 59.80	+23 40.6	2.091	3.001	8.5	19.8
1 2	7 51.38	+24 7.4	2.047	3.008	4.8	19.6
1 12	7 41.74	+24 32.6	2.032	3.014	1.2	19.3
1 22	7 31.87	+24 53.2	2.048	3.020	3.5	19.5
2 1	7 22.84	+25 7.1	2.093	3.026	7.2	19.7
2 11	7 15.58	+25 13.9	2.166	3.031	10.6	20.0
2 21	7 10.66	+25 14.1	2.261	3.036	13.5	20.2

96634 1999 GF_{2} 1 14.1 233°.00 4°.1/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.18	+28 47.1	1.626	2.473	14.4	19.4
12 23	8 2.85	+29 49.9	1.553	2.467	10.6	19.2
1 2	7 53.50	+30 52.7	1.504	2.462	6.6	18.9
1 12	7 42.15	+31 47.5	1.482	2.456	4.1	18.8
1 22	7 30.23	+32 27.5	1.489	2.450	6.3	18.9
2 1	7 19.38	+32 49.3	1.522	2.444	10.4	19.1
2 11	7 11.03	+32 53.3	1.580	2.437	14.3	19.3
2 21	7 6.01	+32 43.0	1.658	2.431	17.7	19.6

217039 2001 QK_{43} 1 14.1 96°.50 0°.3/13.9 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.99	+21 53.2	3.448	4.273	8.0	20.8
12 23	7 54.69	+22 7.5	3.386	4.292	5.7	20.7
1 2	7 48.25	+22 23.5	3.352	4.312	3.2	20.5
1 12	7 41.17	+22 39.2	3.348	4.331	0.6	20.3
1 22	7 34.02	+22 53.2	3.377	4.350	2.2	20.5
2 1	7 27.38	+23 4.4	3.436	4.368	4.7	20.7
2 11	7 21.77	+23 12.1	3.524	4.387	7.0	20.9
2 21	7 17.55	+23 16.3	3.638	4.405	8.9	21.0

323877 2005 SH_{172} 1 14.1 101°.90 2°.5/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.75	+27 20.9	1.846	2.688	13.2	21.3
12 23	8 1.26	+27 44.4	1.779	2.693	9.6	21.1
1 2	7 52.32	+28 6.6	1.737	2.697	5.6	20.9
1 12	7 41.91	+28 22.8	1.723	2.702	2.6	20.7
1 22	7 31.26	+28 29.5	1.738	2.706	4.6	20.9
2 1	7 21.68	+28 25.2	1.781	2.711	8.5	21.1
2 11	7 14.25	+28 10.9	1.850	2.715	12.2	21.3
2 21	7 9.62	+27 48.9	1.941	2.719	15.3	21.6

322722 2000 RL_{90} 1 14.1 178°.81 5°.5/16.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.26	+ 2 45.6	2.464	3.237	12.4	21.8
12 23	7 57.44	+ 2 31.8	2.382	3.239	10.0	21.7
1 2	7 49.98	+ 2 33.1	2.325	3.240	7.5	21.5
1 12	7 41.50	+ 2 49.7	2.296	3.241	5.7	21.4
1 22	7 32.76	+ 3 20.8	2.296	3.241	5.8	21.4
2 1	7 24.61	+ 4 3.8	2.325	3.240	7.6	21.5
2 11	7 17.80	+ 4 54.9	2.382	3.239	10.1	21.7
2 21	7 12.84	+ 5 50.4	2.463	3.237	12.5	21.9

281189 2007 EU_{178} 1 14.1 17°.39 5°.5/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 2.56	+ 7 57.8	1.603	2.424	15.8	20.3
12 23	7 57.59	+ 7 30.8	1.536	2.428	12.4	20.1
1 2	7 50.30	+ 7 20.5	1.491	2.432	8.7	19.9
1 12	7 41.57	+ 7 27.5	1.472	2.436	5.8	19.7
1 22	7 32.56	+ 7 50.2	1.479	2.442	6.2	19.8
2 1	7 24.50	+ 8 25.4	1.513	2.447	9.3	20.0
2 11	7 18.44	+ 9 8.4	1.572	2.454	12.9	20.2
2 21	7 15.03	+ 9 54.4	1.652	2.461	16.2	20.4

457058 2008 DN_{75} 1 14.1 247°.54 3°.2/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.99	+11 21.7	1.843	2.664	14.1	21.6
12 23	7 58.54	+11 33.8	1.761	2.659	10.7	21.3
1 2	7 50.84	+11 59.6	1.703	2.653	6.9	21.1
1 12	7 41.68	+12 37.6	1.673	2.647	3.5	20.9
1 22	7 32.10	+13 24.6	1.671	2.642	4.4	20.9
2 1	7 23.27	+14 16.6	1.698	2.636	8.1	21.1
2 11	7 16.25	+15 9.3	1.751	2.630	12.0	21.3
2 21	7 11.72	+15 59.4	1.826	2.624	15.3	21.5

79496 1998 FK_{91} 1 14.1 233°.07 3°.2/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.06	+31 8.9	2.827	3.657	9.4	20.0
12 23	7 58.14	+31 54.8	2.742	3.646	7.0	19.8
1 2	7 50.44	+32 38.5	2.684	3.636	4.5	19.6
1 12	7 41.61	+33 15.8	2.656	3.625	3.2	19.5
1 22	7 32.44	+33 43.3	2.659	3.613	4.4	19.6
2 1	7 23.82	+33 59.2	2.692	3.601	7.0	19.7
2 11	7 16.58	+34 3.7	2.752	3.589	9.5	19.9
2 21	7 11.29	+33 58.1	2.835	3.577	11.8	20.0

179923 2002 VO_{58} 1 14.1 47°.77 1°.7/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.28	+15 38.2	1.427	2.272	16.2	19.2
12 23	7 59.69	+15 59.0	1.377	2.290	11.8	19.0
1 2	7 51.50	+16 31.7	1.348	2.308	7.0	18.8
1 12	7 41.79	+17 12.6	1.346	2.327	2.2	18.5
1 22	7 31.93	+17 56.7	1.370	2.346	4.2	18.7
2 1	7 23.33	+18 39.6	1.422	2.365	8.9	19.0
2 11	7 17.12	+19 17.8	1.499	2.385	13.2	19.3
2 21	7 13.89	+19 49.6	1.596	2.405	16.7	19.6

492032 2013 GO_{71} 1 14.1 213°.94 3°.8/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.58	+29 8.2	1.794	2.636	13.5	21.5
12 23	8 2.15	+30 1.6	1.721	2.633	9.9	21.2
1 2	7 53.00	+30 53.8	1.673	2.630	6.2	21.0
1 12	7 42.09	+31 38.1	1.652	2.626	3.8	20.8
1 22	7 30.73	+32 8.9	1.661	2.622	5.8	21.0
2 1	7 20.37	+32 23.5	1.697	2.618	9.5	21.2
2 11	7 12.28	+32 22.7	1.759	2.614	13.2	21.4
2 21	7 7.22	+32 9.4	1.841	2.609	16.3	21.6

505848 2015 CS_{45} 1 14.1 38°.83 4°.3/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.73	+33 30.4	2.067	2.904	12.1	20.8
12 23	8 0.39	+33 59.2	2.005	2.911	9.1	20.6
1 2	7 51.78	+34 21.7	1.968	2.918	6.0	20.5
1 12	7 41.84	+34 33.0	1.959	2.926	4.3	20.4
1 22	7 31.75	+34 29.9	1.979	2.933	5.7	20.5
2 1	7 22.72	+34 12.1	2.027	2.941	8.6	20.7
2 11	7 15.74	+33 41.6	2.100	2.949	11.6	20.9
2 21	7 11.38	+33 1.8	2.196	2.957	14.2	21.1

55906 1998 DS_{20} 1 14.1 256°.91 5°.4/17.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.12	+ 1 48.6	2.614	3.386	11.8	20.3
12 23	7 55.21	+ 1 40.3	2.521	3.375	9.6	20.1
1 2	7 48.76	+ 1 46.9	2.452	3.364	7.4	19.9
1 12	7 41.32	+ 2 9.2	2.410	3.352	5.7	19.8
1 22	7 33.59	+ 2 46.2	2.397	3.340	5.7	19.8
2 1	7 26.30	+ 3 35.5	2.414	3.329	7.4	19.9
2 11	7 20.19	+ 4 33.4	2.457	3.317	9.7	20.0
2 21	7 15.77	+ 5 36.0	2.525	3.304	12.1	20.1

368737 2005 UA_{268} 1 14.1 38°.68 4°.0/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.62	+11 38.7	1.774	2.597	14.5	20.8
12 23	7 58.90	+11 7.6	1.704	2.601	11.0	20.6
1 2	7 50.98	+10 47.8	1.658	2.606	7.3	20.4
1 12	7 41.71	+10 39.6	1.639	2.610	4.3	20.2
1 22	7 32.21	+10 41.8	1.648	2.615	5.1	20.3
2 1	7 23.62	+10 52.7	1.685	2.620	8.5	20.5
2 11	7 16.95	+11 9.4	1.747	2.625	12.1	20.7
2 21	7 12.80	+11 29.3	1.832	2.630	15.3	21.0

433508 2013 WN_{51} 1 14.1 93°.55 1°.7/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.01	+26 39.5	2.278	3.113	11.2	20.5
12 23	7 59.55	+26 48.1	2.213	3.123	8.1	20.4
1 2	7 51.19	+26 55.5	2.173	3.133	4.7	20.2
1 12	7 41.74	+26 58.3	2.163	3.143	1.8	20.0
1 22	7 32.16	+26 54.7	2.183	3.153	3.6	20.1
2 1	7 23.48	+26 43.7	2.232	3.162	7.0	20.4
2 11	7 16.52	+26 26.1	2.309	3.172	10.2	20.6
2 21	7 11.82	+26 3.4	2.409	3.181	12.8	20.8

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
401498 2013 EY_{15}			1 14.1 194°.66		1°.4/13.6 18	
	h m	° ′			°	m
12 13	8 8.30	+23 45.8	2.072	2.905	12.3	22.0
12 23	8 1.54	+24 17.6	1.992	2.902	8.9	21.8
1 2	7 52.49	+24 51.9	1.939	2.900	5.1	21.6
1 12	7 42.00	+25 24.2	1.915	2.896	1.5	21.3
1 22	7 31.13	+25 50.7	1.921	2.892	3.9	21.5
2 1	7 21.09	+26 8.9	1.957	2.887	7.8	21.7
2 11	7 12.91	+26 18.2	2.019	2.882	11.4	21.9
2 21	7 7.28	+26 19.6	2.105	2.876	14.5	22.1
541 Deborah			1 14.1 209°.65		1°.3/14.6 18	
12 13	8 4.81	+17 26.8	2.117	2.946	12.2	14.8
12 23	7 58.85	+17 21.2	2.038	2.944	9.0	14.6
1 2	7 50.89	+17 21.5	1.984	2.942	5.3	14.4
1 12	7 41.71	+17 26.0	1.959	2.939	1.7	14.1
1 22	7 32.24	+17 32.9	1.963	2.937	3.3	14.2
2 1	7 23.54	+17 40.4	1.997	2.934	7.2	14.5
2 11	7 16.50	+17 47.3	2.058	2.932	10.7	14.7
2 21	7 11.73	+17 52.7	2.142	2.929	13.7	14.9
11773 Schouten			1 14.1 252°.37		2°.2/13.3 18	
12 13	8 7.32	+27 14.2	2.075	2.912	12.1	18.3
12 23	8 0.89	+27 31.3	1.990	2.901	8.8	18.1
1 2	7 52.15	+27 47.2	1.931	2.890	5.2	17.9
1 12	7 41.94	+27 57.8	1.900	2.879	2.3	17.6
1 22	7 31.35	+28 0.0	1.899	2.868	4.3	17.8
2 1	7 21.58	+27 52.4	1.928	2.856	8.0	18.0
2 11	7 13.72	+27 35.7	1.982	2.844	11.6	18.2
2 21	7 8.43	+27 11.9	2.060	2.833	14.7	18.4
204285 2004 LM_{23}			1 14.1 111°.47		1°.8/13.4 18	
12 13	8 11.19	+23 34.6	1.773	2.609	13.9	21.2
12 23	8 3.66	+24 28.0	1.721	2.632	10.0	21.0
1 2	7 53.64	+25 24.0	1.694	2.655	5.7	20.8
1 12	7 42.18	+26 16.3	1.696	2.677	1.9	20.6
1 22	7 30.58	+26 59.7	1.728	2.698	4.4	20.8
2 1	7 20.19	+27 31.2	1.789	2.718	8.5	21.1
2 11	7 12.09	+27 50.7	1.876	2.738	12.2	21.4
2 21	7 6.90	+27 59.7	1.986	2.757	15.2	21.6
354000 2000 SS_{329}			1 14.1 78°.76		2°.4/13.4 18	
12 13	8 9.87	+25 45.8	1.468	2.317	15.5	21.3
12 23	8 3.17	+26 14.6	1.412	2.329	11.2	21.1
1 2	7 53.54	+26 43.9	1.379	2.341	6.5	20.8
1 12	7 42.17	+27 7.7	1.373	2.353	2.5	20.6
1 22	7 30.62	+27 21.4	1.395	2.365	5.1	20.8
2 1	7 20.48	+27 23.1	1.443	2.377	9.7	21.1
2 11	7 13.02	+27 13.8	1.516	2.389	13.9	21.4
2 21	7 8.88	+26 56.3	1.610	2.401	17.3	21.6
29056 1055 $T\text{-}_{3}$			1 14.1 271°.52		2°.9/13.3 18	
12 13	8 9.92	+28 57.8	1.827	2.666	13.4	19.3
12 23	8 3.12	+29 9.1	1.738	2.650	9.9	19.1
1 2	7 53.57	+29 17.2	1.674	2.633	6.0	18.8
1 12	7 42.21	+29 17.1	1.638	2.616	3.0	18.6
1 22	7 30.35	+29 5.3	1.631	2.598	5.0	18.7
2 1	7 19.45	+28 40.9	1.652	2.581	9.2	18.9
2 11	7 10.80	+28 5.8	1.699	2.563	13.1	19.1
2 21	7 5.18	+27 23.3	1.768	2.545	16.6	19.3
353798 2012 RL_{31}			1 14.1 192°.40		1°.7/14.7 18	
12 13	8 3.84	+16 22.5	2.522	3.342	10.8	20.3
12 23	7 57.85	+16 3.6	2.441	3.341	8.0	20.1
1 2	7 50.22	+15 49.8	2.386	3.340	4.8	19.9
1 12	7 41.59	+15 40.1	2.360	3.339	2.0	19.7
1 22	7 32.76	+15 33.6	2.365	3.337	3.1	19.8
2 1	7 24.57	+15 29.4	2.401	3.336	6.3	20.0
2 11	7 17.77	+15 26.7	2.464	3.334	9.3	20.2
2 21	7 12.88	+15 24.6	2.552	3.332	12.0	20.4
502626 2015 CK_{29}			1 14.1 287°.37		3°.1/12.9 18	
12 13	8 5.81	+29 59.9	2.194	3.032	11.5	21.1
12 23	7 59.71	+30 22.8	2.114	3.024	8.5	20.9
1 2	7 51.44	+30 42.6	2.060	3.016	5.3	20.7
1 12	7 41.82	+30 55.0	2.034	3.009	3.1	20.5
1 22	7 31.89	+30 57.1	2.038	3.001	4.7	20.6
2 1	7 22.79	+30 47.5	2.071	2.994	8.0	20.8
2 11	7 15.50	+30 27.2	2.130	2.986	11.2	21.0
2 21	7 10.67	+29 58.7	2.212	2.979	14.0	21.2
521783 2015 SX_{27}			1 14.1 353°.76		2°.6/14.2 18	
12 13	8 12.13	+20 3.1	1.471	2.311	16.0	19.6
12 23	8 4.73	+18 36.9	1.396	2.307	11.9	19.4
1 2	7 54.41	+17 10.0	1.346	2.304	7.1	19.1
1 12	7 42.35	+15 44.3	1.323	2.302	2.8	18.8
1 22	7 30.05	+14 22.5	1.329	2.301	5.0	18.9
2 1	7 19.10	+13 8.3	1.363	2.300	9.8	19.2
2 11	7 10.78	+12 3.9	1.422	2.300	14.3	19.5
2 21	7 5.75	+11 9.9	1.503	2.301	18.1	19.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
243222 2007 VV_{34}			1 14.1 124°.93		3°.3/12.3 18	
	h m	° ′			°	m
12 13	8 4.26	+30 0.7	2.463	3.299	10.5	20.4
12 23	7 58.40	+30 56.3	2.396	3.304	7.7	20.2
1 2	7 50.63	+31 50.1	2.355	3.309	4.9	20.1
1 12	7 41.67	+32 37.0	2.343	3.313	3.3	20.0
1 22	7 32.45	+33 13.3	2.361	3.318	4.7	20.1
2 1	7 23.93	+33 36.8	2.409	3.323	7.5	20.3
2 11	7 17.01	+33 47.7	2.484	3.327	10.2	20.4
2 21	7 12.26	+33 47.5	2.581	3.331	12.6	20.6
320970 2008 HC_{46}			1 14.1 102°.01		0°.8/14.4 18	
12 13	8 5.08	+17 45.8	1.918	2.751	13.1	20.8
12 23	7 59.17	+18 7.7	1.852	2.760	9.5	20.6
1 2	7 51.12	+18 37.0	1.810	2.769	5.5	20.3
1 12	7 41.77	+19 10.6	1.796	2.778	1.3	20.1
1 22	7 32.19	+19 44.8	1.812	2.787	3.4	20.2
2 1	7 23.49	+20 16.7	1.857	2.796	7.5	20.5
2 11	7 16.66	+20 44.1	1.928	2.804	11.2	20.8
2 21	7 12.27	+21 6.2	2.022	2.812	14.3	21.0
377570 2005 LR_{18}			1 14.1 24°.61		3°.2/12.5 18	
12 13	8 3.87	+28 9.3	2.095	2.937	11.8	20.3
12 23	7 58.39	+29 8.7	2.027	2.940	8.6	20.1
1 2	7 50.73	+30 8.0	1.985	2.943	5.3	19.9
1 12	7 41.71	+31 1.5	1.971	2.946	3.2	19.7
1 22	7 32.37	+31 44.4	1.987	2.949	5.0	19.9
2 1	7 23.83	+32 13.9	2.032	2.952	8.2	20.1
2 11	7 17.11	+32 29.7	2.102	2.956	11.4	20.3
2 21	7 12.83	+32 33.5	2.194	2.959	14.1	20.5
226706 2004 NK_{24}			1 14.1 133°.84		2°.8/15.6 18	
12 13	8 4.15	+10 36.2	2.515	3.318	11.3	21.2
12 23	7 58.00	+10 43.1	2.447	3.333	8.6	21.0
1 2	7 50.27	+11 0.0	2.404	3.348	5.6	20.9
1 12	7 41.62	+11 25.6	2.390	3.362	3.1	20.7
1 22	7 32.81	+11 57.9	2.408	3.375	3.6	20.8
2 1	7 24.67	+12 34.3	2.456	3.388	6.3	21.0
2 11	7 17.92	+13 12.1	2.532	3.400	9.2	21.2
2 21	7 13.02	+13 49.2	2.633	3.411	11.7	21.4
53826 2000 ER_{148}			1 14.1 196°.62		2°.9/13.1 18	
12 13	8 11.04	+27 34.1	1.857	2.693	13.3	19.7
12 23	8 3.82	+28 13.4	1.780	2.691	9.8	19.4
1 2	7 53.92	+28 52.0	1.729	2.688	5.8	19.2
1 12	7 42.30	+29 24.2	1.707	2.684	2.9	19.0
1 22	7 30.26	+29 45.1	1.713	2.679	5.1	19.1
2 1	7 19.21	+29 52.4	1.749	2.674	9.0	19.4
2 11	7 10.41	+29 47.1	1.811	2.668	12.8	19.6
2 21	7 4.58	+29 31.6	1.894	2.661	16.0	19.8
168235 2006 KZ_{72}			1 14.1 150°.81		3°.7/16.1 18	
12 13	8 1.77	+ 7 43.6	2.583	3.379	11.3	21.2
12 23	7 56.33	+ 7 43.3	2.507	3.385	8.7	21.0
1 2	7 49.36	+ 7 54.6	2.455	3.390	6.0	20.9
1 12	7 41.47	+ 8 16.8	2.432	3.396	4.0	20.7
1 22	7 33.39	+ 8 48.4	2.440	3.401	4.2	20.8
2 1	7 25.87	+ 9 27.0	2.477	3.405	6.5	20.9
2 11	7 19.63	+10 9.4	2.542	3.410	9.2	21.1
2 21	7 15.13	+10 53.0	2.632	3.414	11.6	21.3
163680 2002 XK_{84}			1 14.1 29°.92		6°.8/10.0 18	
12 13	8 7.20	+30 51.3	1.485	2.339	15.1	17.2
12 23	8 1.61	+33 37.2	1.449	2.363	11.3	17.1
1 2	7 52.89	+36 19.5	1.438	2.387	7.9	16.9
1 12	7 42.14	+38 44.1	1.456	2.413	6.9	16.9
1 22	7 30.94	+40 39.9	1.502	2.440	8.9	17.1
2 1	7 21.01	+42 2.1	1.574	2.467	12.1	17.4
2 11	7 13.82	+42 52.3	1.669	2.495	15.2	17.6
2 21	7 10.14	+43 16.3	1.784	2.523	17.8	17.9
280232 2002 VT_{22}			1 14.1 72°.51		4°.2/15.3 18	
12 13	8 8.27	+12 25.9	1.318	2.155	17.7	20.0
12 23	8 2.08	+12 1.4	1.260	2.165	13.4	19.8
1 2	7 52.99	+11 51.6	1.223	2.176	8.6	19.5
1 12	7 42.15	+11 55.9	1.212	2.186	4.6	19.3
1 22	7 31.06	+12 11.9	1.226	2.197	5.7	19.4
2 1	7 21.32	+12 36.1	1.267	2.207	10.1	19.7
2 11	7 14.19	+13 4.7	1.332	2.218	14.5	20.0
2 21	7 10.34	+13 33.9	1.416	2.228	18.3	20.2
279898 2001 QP_{174}			1 14.1 81°.62		3°.4/15.5 18	
12 13	8 2.89	+10 55.0	2.266	3.077	12.1	20.3
12 23	7 57.25	+10 35.6	2.198	3.088	9.2	20.2
1 2	7 49.91	+10 26.2	2.155	3.099	6.1	20.0
1 12	7 41.59	+10 26.5	2.140	3.109	3.7	19.9
1 22	7 33.11	+10 35.2	2.155	3.120	4.2	19.9
2 1	7 25.36	+10 50.5	2.199	3.131	7.0	20.1
2 11	7 19.10	+11 10.1	2.270	3.141	9.9	20.3
2 21	7 14.83	+11 31.8	2.364	3.152	12.6	20.5

33645 1999 JW_{82} 1 14.1 166°.01 0°.8/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 4.65	+16 17.6	2.281	3.104	11.7	18.7
12 23	7 58.67	+16 59.6	2.205	3.108	8.5	18.5
1 2	7 50.81	+17 50.0	2.154	3.111	5.0	18.2
1 12	7 41.76	+18 45.6	2.133	3.115	1.3	18.0
1 22	7 32.41	+19 42.3	2.143	3.117	3.0	18.1
2 1	7 23.71	+20 36.4	2.183	3.120	6.7	18.4
2 11	7 16.55	+21 25.2	2.252	3.121	10.1	18.6
2 21	7 11.51	+22 7.2	2.344	3.123	12.9	18.8

263721 2008 HO_{49} 1 14.1 236°.86 1°.3/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.89	+17 13.9	2.157	2.982	12.2	20.6
12 23	7 59.73	+17 11.7	2.067	2.971	9.0	20.3
1 2	7 51.49	+17 15.6	2.002	2.959	5.3	20.1
1 12	7 41.90	+17 23.8	1.965	2.946	1.7	19.8
1 22	7 31.92	+17 34.4	1.959	2.933	3.4	19.9
2 1	7 22.61	+17 45.4	1.983	2.920	7.3	20.1
2 11	7 14.93	+17 55.6	2.034	2.906	10.9	20.3
2 21	7 9.53	+18 3.9	2.108	2.892	14.0	20.5

10269 Tusi 1 14.1 91°.57 0°.5/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.82	+21 32.7	2.366	3.198	11.0	17.7
12 23	7 57.93	+21 57.5	2.304	3.214	7.9	17.5
1 2	7 50.30	+22 25.4	2.269	3.230	4.4	17.3
1 12	7 41.67	+22 53.4	2.263	3.245	0.8	17.1
1 22	7 32.90	+23 18.5	2.287	3.261	3.0	17.3
2 1	7 24.90	+23 38.8	2.342	3.276	6.5	17.5
2 11	7 18.45	+23 53.3	2.424	3.292	9.5	17.7
2 21	7 14.04	+24 2.2	2.530	3.306	12.1	17.9

262600 2006 VV_{120} 1 14.1 179°.90 1°.1/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.34	+17 33.3	2.087	2.913	12.5	21.3
12 23	8 0.01	+17 40.1	2.010	2.915	9.1	21.1
1 2	7 51.60	+17 53.4	1.958	2.915	5.3	20.8
1 12	7 41.92	+18 10.8	1.934	2.916	1.5	20.6
1 22	7 31.94	+18 29.7	1.941	2.915	3.3	20.7
2 1	7 22.75	+18 48.0	1.978	2.915	7.3	20.9
2 11	7 15.29	+19 3.9	2.041	2.914	10.9	21.2
2 21	7 10.18	+19 16.8	2.128	2.912	13.9	21.4

466826 2015 BG_{190} 1 14.1 11°.98 0°.1/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.53	+19 13.7	1.819	2.662	13.3	20.6
12 23	7 57.53	+19 43.4	1.750	2.664	9.6	20.4
1 2	7 50.30	+20 20.2	1.704	2.666	5.5	20.1
1 12	7 41.69	+21 0.6	1.687	2.669	1.0	19.8
1 22	7 32.77	+21 40.2	1.697	2.673	3.5	20.0
2 1	7 24.71	+22 15.7	1.736	2.676	7.8	20.3
2 11	7 18.53	+22 44.8	1.801	2.681	11.7	20.5
2 21	7 14.87	+23 6.8	1.888	2.685	14.9	20.8

2138 Swissair 1 14.1 200°.08 0°.4/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.13	+20 29.3	2.023	2.859	12.4	16.1
12 23	7 59.29	+21 4.9	1.946	2.857	9.0	15.8
1 2	7 51.27	+21 46.3	1.894	2.855	5.1	15.6
1 12	7 41.87	+22 29.4	1.871	2.853	0.9	15.3
1 22	7 32.10	+23 10.2	1.877	2.851	3.5	15.5
2 1	7 23.10	+23 45.3	1.913	2.849	7.6	15.7
2 11	7 15.87	+24 13.1	1.976	2.846	11.2	15.9
2 21	7 11.08	+24 33.1	2.061	2.843	14.3	16.1

5216 1941 HA 1 14.1 129°.93 3°.0/15.7 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.96	+10 3.3	2.068	2.877	13.2	16.6
12 23	7 58.94	+10 33.3	1.998	2.889	10.0	16.5
1 2	7 50.97	+11 17.1	1.953	2.900	6.4	16.3
1 12	7 41.81	+12 12.3	1.937	2.910	3.4	16.1
1 22	7 32.40	+13 15.1	1.951	2.921	4.0	16.1
2 1	7 23.76	+14 20.9	1.994	2.931	7.3	16.4
2 11	7 16.78	+15 25.5	2.066	2.940	10.7	16.6
2 21	7 12.03	+16 25.9	2.161	2.949	13.6	16.8

393644 2004 PH_{26} 1 14.1 99°.96 0°.9/13.8 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.72	+21 32.6	1.621	2.460	14.8	21.8
12 23	8 3.46	+22 10.3	1.570	2.483	10.7	21.6
1 2	7 53.61	+22 52.6	1.543	2.505	6.0	21.4
1 12	7 42.27	+23 34.1	1.544	2.527	1.3	21.1
1 22	7 30.83	+24 9.7	1.575	2.548	4.1	21.4
2 1	7 20.69	+24 36.6	1.633	2.569	8.7	21.7
2 11	7 12.97	+24 54.0	1.718	2.589	12.6	22.0
2 21	7 8.25	+25 2.9	1.824	2.608	15.9	22.3

37413 2001 XB_{184} 1 14.1 215°.62 1°.5/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.18	+15 30.1	2.189	3.012	12.1	19.5
12 23	7 58.44	+15 47.2	2.105	3.007	8.9	19.3
1 2	7 50.74	+16 12.8	2.046	3.002	5.3	19.1
1 12	7 41.79	+16 44.7	2.016	2.996	1.9	18.8
1 22	7 32.48	+17 19.9	2.016	2.990	3.3	18.9
2 1	7 23.83	+17 55.7	2.046	2.984	7.0	19.1
2 11	7 16.74	+18 29.4	2.103	2.977	10.5	19.4
2 21	7 11.83	+18 59.4	2.184	2.970	13.5	19.5

396797 2004 OC_8 1 14.1 130°.97 0°.9/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 11.49	+23 3.5	1.753	2.588	14.1	21.9
12 23	8 3.93	+23 16.4	1.691	2.602	10.2	21.7
1 2	7 53.87	+23 31.4	1.654	2.615	5.7	21.4
1 12	7 42.33	+23 44.3	1.646	2.628	1.2	21.2
1 22	7 30.63	+23 51.9	1.667	2.640	4.0	21.4
2 1	7 20.14	+23 52.7	1.717	2.651	8.4	21.7
2 11	7 11.96	+23 46.9	1.793	2.662	12.3	21.9
2 21	7 6.70	+23 35.9	1.892	2.672	15.5	22.2

271937 2004 XR_{167} 1 14.1 42°.72 1°.2/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.54	+23 12.2	1.922	2.764	12.7	20.3
12 23	7 58.91	+23 44.1	1.853	2.768	9.2	20.1
1 2	7 51.06	+24 19.2	1.809	2.772	5.2	19.8
1 12	7 41.84	+24 53.2	1.794	2.776	1.4	19.6
1 22	7 32.34	+25 22.0	1.807	2.780	3.8	19.8
2 1	7 23.73	+25 43.1	1.850	2.784	7.9	20.0
2 11	7 17.02	+25 55.7	1.918	2.789	11.5	20.2
2 21	7 12.83	+26 0.3	2.008	2.793	14.6	20.5

362388 2010 OH_{24} 1 14.1 127°.82 1°.8/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.50	+14 30.3	2.165	2.982	12.4	22.0
12 23	7 59.93	+14 47.7	2.100	2.999	9.2	21.8
1 2	7 51.47	+15 13.8	2.061	3.015	5.5	21.6
1 12	7 41.90	+15 46.4	2.051	3.030	2.1	21.4
1 22	7 32.17	+16 22.3	2.072	3.045	3.3	21.5
2 1	7 23.26	+16 58.7	2.123	3.059	6.9	21.8
2 11	7 16.02	+17 33.0	2.202	3.073	10.2	22.0
2 21	7 11.01	+18 3.9	2.304	3.085	13.1	22.2

126044 2001 YU_{71} 1 14.1 77°.66 3°.5/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.88	+27 9.5	1.803	2.646	13.4	19.5
12 23	8 1.45	+28 31.4	1.753	2.666	9.7	19.3
1 2	7 52.53	+29 53.4	1.728	2.687	5.9	19.1
1 12	7 42.10	+31 7.9	1.732	2.707	3.5	19.0
1 22	7 31.44	+32 8.6	1.766	2.727	5.5	19.2
2 1	7 21.88	+32 51.9	1.827	2.747	9.1	19.4
2 11	7 14.52	+33 18.2	1.914	2.766	12.4	19.7
2 21	7 10.01	+33 29.7	2.023	2.786	15.2	19.9

159550 2001 SM_{127} 1 14.1 154°.64 0°.0/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.27	+20 52.1	3.520	4.345	7.9	20.6
12 23	7 54.27	+21 4.0	3.442	4.348	5.7	20.4
1 2	7 48.13	+21 18.0	3.392	4.352	3.2	20.3
1 12	7 41.30	+21 32.6	3.373	4.355	0.6	20.0
1 22	7 34.34	+21 46.4	3.385	4.359	2.1	20.2
2 1	7 27.82	+21 58.0	3.428	4.362	4.6	20.4
2 11	7 22.25	+22 6.9	3.500	4.365	7.0	20.5
2 21	7 18.03	+22 12.7	3.597	4.367	9.0	20.7

490792 2010 VF_2 1 14.1 157°.84 3°.8/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.93	+31 17.4	2.080	2.913	12.2	22.0
12 23	8 2.76	+31 57.4	2.013	2.919	9.1	21.9
1 2	7 53.22	+32 33.4	1.971	2.924	5.8	21.7
1 12	7 42.23	+32 59.6	1.959	2.929	3.8	21.6
1 22	7 30.99	+33 12.2	1.976	2.934	5.4	21.7
2 1	7 20.76	+33 9.9	2.022	2.938	8.6	21.9
2 11	7 12.62	+32 54.4	2.095	2.941	11.7	22.1
2 21	7 7.18	+32 28.6	2.189	2.944	14.5	22.3

176203 2001 PT_{18} 1 14.1 175°.71 1°.9/15.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.63	+14 14.6	2.395	3.208	11.5	21.1
12 23	7 59.27	+14 24.2	2.315	3.211	8.5	20.9
1 2	7 51.12	+14 41.9	2.261	3.213	5.2	20.7
1 12	7 41.86	+15 5.9	2.237	3.215	2.2	20.5
1 22	7 32.34	+15 34.0	2.244	3.216	3.3	20.6
2 1	7 23.48	+16 3.8	2.281	3.216	6.6	20.8
2 11	7 16.09	+16 32.9	2.347	3.216	9.8	21.0
2 21	7 10.74	+17 0.0	2.437	3.214	12.5	21.2

352688 2008 SE_{46} 1 14.1 47°.72 6°.0/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.78	+32 7.5	1.267	2.125	17.0	20.7
12 23	8 4.46	+33 9.4	1.217	2.134	12.7	20.4
1 2	7 54.56	+34 5.3	1.189	2.145	8.4	20.2
1 12	7 42.49	+34 45.4	1.186	2.155	6.0	20.1
1 22	7 30.16	+35 2.8	1.209	2.166	8.0	20.3
2 1	7 19.56	+34 56.2	1.256	2.178	12.1	20.5
2 11	7 12.22	+34 29.5	1.326	2.189	16.1	20.8
2 21	7 8.81	+33 48.9	1.414	2.201	19.5	21.0

467537 2007 RM_{296} 1 14.1 73°.78 5°.8/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.16	+ 3 50.3	2.334	3.118	12.7	21.0
12 23	7 56.72	+ 3 8.9	2.263	3.125	10.2	20.8
1 2	7 49.64	+ 2 41.3	2.216	3.133	7.7	20.7
1 12	7 41.59	+ 2 28.9	2.196	3.140	6.0	20.6
1 22	7 33.36	+ 2 31.4	2.205	3.148	6.1	20.6
2 1	7 25.79	+ 2 47.4	2.242	3.155	8.0	20.7
2 11	7 19.61	+ 3 13.7	2.305	3.163	10.4	20.9
2 21	7 15.34	+ 3 46.7	2.392	3.171	12.7	21.1

412200 2013 GW_{103} 1 14.1 275°.71 1°.3/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.03	+17 10.7	1.635	2.474	14.7	22.0
12 23	8 0.42	+17 20.9	1.551	2.462	10.9	21.7
1 2	7 52.15	+17 40.4	1.489	2.449	6.4	21.4
1 12	7 42.08	+18 6.6	1.455	2.436	1.8	21.1
1 22	7 31.45	+18 35.8	1.449	2.424	4.0	21.2
2 1	7 21.67	+19 4.5	1.470	2.411	8.9	21.4
2 11	7 14.00	+19 30.1	1.517	2.398	13.3	21.7
2 21	7 9.27	+19 51.3	1.584	2.385	17.1	21.9

282960 2007 RZ_{260} 1 14.1 305°.87 4°.1/16.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.21	+ 7 19.2	2.238	3.040	12.6	20.6
12 23	7 56.21	+ 7 22.8	2.157	3.038	9.8	20.4
1 2	7 49.45	+ 7 40.4	2.100	3.037	6.8	20.2
1 12	7 41.59	+ 8 11.4	2.071	3.035	4.5	20.1
1 22	7 33.45	+ 8 53.8	2.071	3.033	4.7	20.1
2 1	7 25.91	+ 9 44.3	2.100	3.032	7.3	20.3
2 11	7 19.78	+10 39.0	2.156	3.030	10.3	20.4
2 21	7 15.64	+11 34.4	2.236	3.029	13.0	20.6

345189 2005 TS_{182} 1 14.1 74°.03 3°.5/12.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.99	+25 28.6	1.294	2.149	16.9	20.2
12 23	8 4.32	+26 46.9	1.249	2.169	12.2	20.0
1 2	7 54.38	+28 7.6	1.228	2.189	7.1	19.8
1 12	7 42.48	+29 20.6	1.232	2.210	3.6	19.6
1 22	7 30.38	+30 17.7	1.263	2.230	6.2	19.8
2 1	7 19.90	+30 55.0	1.321	2.250	10.9	20.1
2 11	7 12.43	+31 13.2	1.402	2.271	15.1	20.5
2 21	7 8.63	+31 15.8	1.502	2.290	18.5	20.7

409581 2005 UU_{216} 1 14.1 126°.09 5°.5/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.01	+34 35.4	1.951	2.788	12.8	21.0
12 23	8 2.39	+35 44.2	1.890	2.793	9.7	20.8
1 2	7 53.16	+36 47.1	1.854	2.798	6.9	20.7
1 12	7 42.27	+37 36.4	1.845	2.803	5.5	20.6
1 22	7 31.04	+38 7.0	1.865	2.808	7.0	20.7
2 1	7 20.87	+38 17.1	1.913	2.813	9.9	20.9
2 11	7 12.95	+38 8.5	1.985	2.818	12.8	21.1
2 21	7 7.98	+37 45.3	2.078	2.822	15.4	21.3

4207 Chernova 1 14.1 356°.98 2°.6/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.78	+14 40.2	2.024	2.850	12.8	16.2
12 23	7 58.19	+14 17.0	1.947	2.849	9.6	16.0
1 2	7 50.61	+14 1.5	1.895	2.848	6.0	15.7
1 12	7 41.81	+13 53.1	1.871	2.848	2.9	15.5
1 22	7 32.76	+13 50.8	1.876	2.848	3.9	15.6
2 1	7 24.49	+13 53.2	1.910	2.848	7.5	15.8
2 11	7 17.90	+13 58.6	1.971	2.848	11.0	16.0
2 21	7 13.58	+14 5.5	2.054	2.848	14.0	16.2

42682 1998 HF_{145} 1 14.1 273°.41 1°.4/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.45	+21 54.9	1.607	2.453	14.5	18.5
12 23	8 0.85	+22 47.7	1.529	2.446	10.6	18.2
1 2	7 52.46	+23 47.9	1.475	2.438	6.0	18.0
1 12	7 42.19	+24 49.4	1.449	2.431	1.6	17.6
1 22	7 31.33	+25 45.6	1.450	2.423	4.6	17.8
2 1	7 21.38	+26 31.6	1.480	2.415	9.4	18.1
2 11	7 13.68	+27 5.2	1.534	2.407	13.7	18.3
2 21	7 9.07	+27 26.7	1.609	2.400	17.4	18.5

393416 2001 QC_{146} 1 14.1 196°.88 1°.5/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.97	+24 16.4	1.863	2.697	13.4	22.1
12 23	8 3.73	+24 40.0	1.784	2.695	9.8	21.8
1 2	7 53.91	+25 5.3	1.731	2.691	5.6	21.6
1 12	7 42.43	+25 27.7	1.706	2.687	1.7	21.3
1 22	7 30.54	+25 43.1	1.710	2.682	4.2	21.5
2 1	7 19.62	+25 49.5	1.744	2.676	8.5	21.7
2 11	7 10.85	+25 47.1	1.805	2.670	12.4	22.0
2 21	7 4.95	+25 37.3	1.888	2.662	15.8	22.2

317550 2002 UE_{39} 1 14.1 53°.37 0°.2/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.02	+19 40.0	1.953	2.791	12.7	20.5
12 23	7 58.35	+19 56.5	1.896	2.808	9.2	20.3
1 2	7 50.66	+20 18.3	1.864	2.825	5.2	20.1
1 12	7 41.82	+20 42.3	1.860	2.842	1.0	19.9
1 22	7 32.85	+21 5.3	1.885	2.860	3.3	20.1
2 1	7 24.82	+21 25.0	1.938	2.877	7.2	20.4
2 11	7 18.61	+21 40.2	2.019	2.895	10.8	20.6
2 21	7 14.75	+21 50.3	2.122	2.913	13.7	20.8

306050 2010 FA_{91} 1 14.1 230°.80 0°.1/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.88	+19 14.0	1.842	2.675	13.6	21.3
12 23	8 1.58	+19 41.9	1.755	2.664	9.9	21.1
1 2	7 52.76	+20 17.2	1.692	2.653	5.7	20.8
1 12	7 42.24	+20 56.2	1.658	2.641	1.1	20.5
1 22	7 31.17	+21 34.5	1.653	2.628	3.7	20.6
2 1	7 20.88	+22 8.4	1.678	2.615	8.3	20.9
2 11	7 12.54	+22 35.9	1.729	2.601	12.5	21.1
2 21	7 6.96	+22 56.3	1.802	2.587	16.0	21.3

158390 2001 YV_{37} 1 14.1 152°.91 1°.4/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 9.75	+23 1.5	1.817	2.653	13.6	20.7
12 23	8 2.80	+23 40.8	1.749	2.661	9.8	20.5
1 2	7 53.34	+24 23.5	1.707	2.668	5.6	20.2
1 12	7 42.32	+25 4.5	1.693	2.675	1.6	20.0
1 22	7 31.00	+25 39.0	1.709	2.681	4.1	20.2
2 1	7 20.70	+26 4.1	1.754	2.686	8.4	20.4
2 11	7 12.57	+26 19.2	1.825	2.691	12.3	20.7
2 21	7 7.27	+26 25.2	1.918	2.695	15.5	20.9

494741 2005 UP_{520} 1 14.1 167°.72 1°.9/15.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.95	+14 5.8	2.261	3.077	12.0	22.3
12 23	7 58.89	+14 19.4	2.184	3.081	8.9	22.1
1 2	7 50.96	+14 41.9	2.132	3.085	5.4	21.9
1 12	7 41.89	+15 11.5	2.110	3.088	2.3	21.7
1 22	7 32.56	+15 45.3	2.118	3.091	3.3	21.8
2 1	7 23.91	+16 20.6	2.156	3.093	6.8	22.0
2 11	7 16.81	+16 55.0	2.222	3.094	10.1	22.2
2 21	7 11.81	+17 26.7	2.312	3.095	13.0	22.4

412733 2014 OY_{349} 1 14.1 132°.67 2°.3/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.62	+13 12.4	1.901	2.721	13.7	21.4
12 23	8 0.31	+13 32.8	1.834	2.733	10.2	21.2
1 2	7 51.84	+14 4.9	1.791	2.744	6.3	20.9
1 12	7 42.05	+14 45.9	1.776	2.754	2.7	20.7
1 22	7 32.02	+15 32.1	1.791	2.764	3.8	20.8
2 1	7 22.87	+16 19.8	1.836	2.774	7.7	21.1
2 11	7 15.59	+17 5.4	1.907	2.783	11.3	21.3
2 21	7 10.78	+17 46.8	2.002	2.791	14.5	21.6

344525 2002 TJ_{92} 1 14.1 34°.29 1°.3/14.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.73	+17 43.4	1.061	1.924	19.1	20.6
12 23	8 1.53	+17 51.4	1.012	1.935	14.0	20.4
1 2	7 52.92	+18 11.4	0.983	1.946	8.1	20.1
1 12	7 42.26	+18 39.3	0.977	1.959	2.1	19.8
1 22	7 31.37	+19 9.6	0.996	1.972	4.9	20.0
2 1	7 22.13	+19 37.7	1.039	1.987	10.8	20.4
2 11	7 15.99	+20 0.7	1.104	2.002	15.9	20.7
2 21	7 13.62	+20 17.5	1.188	2.017	20.0	21.0

424666 2008 RH_{44} 1 14.1 100°.89 1°.0/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.20	+23 12.6	2.107	2.944	12.0	21.5
12 23	7 59.21	+23 36.5	2.040	2.952	8.6	21.3
1 2	7 51.18	+24 2.7	1.998	2.959	4.9	21.1
1 12	7 41.94	+24 27.6	1.985	2.967	1.2	20.8
1 22	7 32.48	+24 47.9	2.002	2.974	3.5	21.0
2 1	7 23.88	+25 1.8	2.048	2.982	7.3	21.3
2 11	7 17.04	+25 8.6	2.121	2.989	10.7	21.5
2 21	7 12.53	+25 8.8	2.216	2.996	13.5	21.7

371888 2008 CY_{75} 1 14.2 226°.92 4°.6/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.45	+34 50.7	2.371	3.195	11.2	22.0
12 23	8 3.19	+35 34.6	2.286	3.183	8.6	21.8
1 2	7 53.56	+36 12.8	2.226	3.170	6.0	21.6
1 12	7 42.40	+36 39.5	2.196	3.156	4.6	21.5
1 22	7 30.80	+36 50.6	2.196	3.142	5.9	21.6
2 1	7 20.00	+36 44.8	2.226	3.127	8.7	21.7
2 11	7 11.08	+36 23.7	2.281	3.111	11.5	21.9
2 21	7 4.77	+35 50.6	2.359	3.095	14.0	22.0

293602 2007 JM_{43} 1 14.2 200°.13 6°.3/17.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.05	− 0 27.3	2.106	2.867	14.6	21.4
12 23	8 0.60	− 0 2.7	2.016	2.863	12.0	21.2
1 2	7 52.06	+ 0 44.6	1.948	2.857	9.1	21.0
1 12	7 42.14	+ 1 54.4	1.908	2.851	6.8	20.9
1 22	7 31.76	+ 3 23.9	1.897	2.845	6.6	20.9
2 1	7 21.99	+ 5 7.5	1.918	2.837	8.7	21.0
2 11	7 13.80	+ 6 58.1	1.966	2.828	11.7	21.1
2 21	7 7.89	+ 8 49.2	2.040	2.819	14.6	21.3

238777 2005 JO_{138} 1 14.2 8°.11 5°.4/16.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.14	+ 4 51.3	2.157	2.952	13.2	20.5
12 23	7 56.20	+ 4 33.5	2.080	2.952	10.5	20.3
1 2	7 49.48	+ 4 31.0	2.027	2.953	7.8	20.1
1 12	7 41.65	+ 4 44.4	2.000	2.953	5.7	20.0
1 22	7 33.57	+ 5 12.3	2.001	2.954	5.8	20.0
2 1	7 26.13	+ 5 52.1	2.031	2.955	8.0	20.2
2 11	7 20.15	+ 6 40.0	2.087	2.956	10.8	20.3
2 21	7 16.20	+ 7 31.8	2.166	2.958	13.4	20.5

207663 2007 PV_{7} 1 14.2 79°.06 2°.2/15.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.37	+13 56.4	1.509	2.343	16.0	20.2
12 23	8 1.19	+14 19.6	1.455	2.362	11.8	20.0
1 2	7 52.44	+14 56.2	1.424	2.380	7.1	19.8
1 12	7 42.19	+15 42.6	1.419	2.399	2.7	19.5
1 22	7 31.76	+16 33.7	1.442	2.417	4.2	19.7
2 1	7 22.53	+17 24.7	1.494	2.435	8.7	20.0
2 11	7 15.63	+18 11.8	1.570	2.453	12.9	20.3
2 21	7 11.67	+18 52.6	1.668	2.471	16.3	20.6

6639 Marchis 1 14.2 186°.49 0°.7/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 2.95	+22 33.8	2.755	3.584	9.7	18.4
12 23	7 57.27	+22 57.3	2.675	3.584	7.0	18.2
1 2	7 49.99	+23 23.1	2.622	3.583	3.9	18.0
1 12	7 41.75	+23 48.4	2.600	3.582	0.9	17.8
1 22	7 33.27	+24 10.8	2.608	3.581	2.8	17.9
2 1	7 25.36	+24 28.5	2.647	3.579	5.9	18.2
2 11	7 18.75	+24 40.7	2.714	3.577	8.8	18.3
2 21	7 13.94	+24 47.5	2.805	3.575	11.2	18.5

363171 2001 TG_{49} 1 14.2 101°.51 3°.5/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.22	+30 49.8	2.078	2.909	12.3	21.3
12 23	8 3.49	+31 26.0	2.029	2.934	9.0	21.2
1 2	7 53.55	+31 57.5	2.005	2.959	5.7	21.0
1 12	7 42.38	+32 19.2	2.011	2.982	3.6	20.9
1 22	7 31.18	+32 27.8	2.046	3.006	5.1	21.1
2 1	7 21.15	+32 22.8	2.111	3.028	8.2	21.3
2 11	7 13.26	+32 5.8	2.203	3.050	11.2	21.5
2 21	7 8.03	+31 40.1	2.317	3.072	13.8	21.8

450453 2005 UO_{477} 1 14.2 63°.30 3°.1/13.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.19	+26 43.6	1.233	2.089	17.4	21.4
12 23	8 5.17	+27 16.5	1.190	2.110	12.6	21.1
1 2	7 54.82	+27 48.4	1.169	2.131	7.3	20.9
1 12	7 42.61	+28 12.1	1.173	2.153	3.2	20.7
1 22	7 30.40	+28 22.3	1.204	2.174	5.8	21.0
2 1	7 20.01	+28 17.9	1.260	2.196	10.7	21.3
2 11	7 12.79	+28 1.3	1.340	2.217	15.1	21.6
2 21	7 9.29	+27 35.9	1.439	2.239	18.7	21.9

34127 Adamnayak 1 14.2 91°.88 0°.9/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.02	+23 3.7	1.873	2.712	13.1	19.6
12 23	8 0.68	+23 20.7	1.810	2.723	9.5	19.4
1 2	7 52.08	+23 40.1	1.771	2.733	5.3	19.2
1 12	7 42.13	+23 58.0	1.761	2.743	1.2	18.9
1 22	7 31.99	+24 11.4	1.780	2.753	3.7	19.1
2 1	7 22.87	+24 18.3	1.827	2.763	7.9	19.4
2 11	7 15.78	+24 18.4	1.901	2.773	11.6	19.6
2 21	7 11.29	+24 12.8	1.998	2.783	14.6	19.8

351678 2006 AB_{89} 1 14.2 329°.71 0°.1/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.50	+19 50.5	1.335	2.189	16.5	21.4
12 23	8 1.19	+20 7.4	1.264	2.183	12.1	21.1
1 2	7 52.77	+20 32.7	1.215	2.178	6.9	20.8
1 12	7 42.30	+21 2.1	1.190	2.173	1.3	20.4
1 22	7 31.29	+21 30.5	1.193	2.168	4.5	20.7
2 1	7 21.44	+21 54.2	1.221	2.164	10.0	21.0
2 11	7 14.22	+22 11.0	1.273	2.161	14.9	21.2
2 21	7 10.44	+22 20.7	1.344	2.157	19.0	21.5

377315 2004 HB_{31} 1 14.2 224°.24 3°.1/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.56	+12 33.9	2.275	3.084	12.2	21.3
12 23	8 0.12	+12 8.0	2.183	3.074	9.2	21.1
1 2	7 51.73	+11 50.0	2.117	3.063	6.0	20.8
1 12	7 42.09	+11 39.7	2.080	3.052	3.4	20.6
1 22	7 32.10	+11 36.7	2.073	3.040	4.2	20.7
2 1	7 22.73	+11 39.5	2.096	3.028	7.3	20.8
2 11	7 14.89	+11 46.8	2.147	3.015	10.6	21.0
2 21	7 9.20	+11 56.7	2.222	3.001	13.5	21.2

297156 2010 UC_{81} 1 14.2 90°.49 0°.2/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.35	+19 35.1	1.970	2.798	13.0	21.4
12 23	8 2.03	+19 56.9	1.923	2.829	9.4	21.2
1 2	7 52.68	+20 23.5	1.901	2.860	5.3	21.0
1 12	7 42.23	+20 51.3	1.908	2.891	1.0	20.8
1 22	7 31.78	+21 16.9	1.946	2.920	3.3	21.0
2 1	7 22.44	+21 38.2	2.014	2.949	7.3	21.3
2 11	7 15.07	+21 54.2	2.108	2.978	10.7	21.6
2 21	7 10.18	+22 4.8	2.226	3.005	13.5	21.8

242569 2005 EG_{252} 1 14.2 331°.04 0°.8/13.9 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.45	+22 24.4	1.591	2.445	14.3	20.5
12 23	7 58.04	+22 39.6	1.503	2.423	10.5	20.2
1 2	7 50.94	+22 59.6	1.438	2.402	6.0	19.9
1 12	7 42.00	+23 20.5	1.399	2.381	1.3	19.5
1 22	7 32.44	+23 38.2	1.387	2.362	4.2	19.7
2 1	7 23.70	+23 49.8	1.402	2.343	9.2	19.9
2 11	7 17.10	+23 54.0	1.441	2.326	13.7	20.1
2 21	7 13.49	+23 51.0	1.500	2.309	17.6	20.3

82503 2001 OU_{46} 1 14.2 235°.82 2°.2/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.63	+14 59.7	1.853	2.681	13.7	19.9
12 23	7 59.80	+14 57.7	1.772	2.676	10.2	19.6
1 2	7 51.69	+15 5.0	1.716	2.671	6.3	19.4
1 12	7 42.11	+15 20.0	1.687	2.666	2.6	19.1
1 22	7 32.14	+15 40.4	1.687	2.660	3.9	19.2
2 1	7 22.98	+16 3.4	1.716	2.655	8.0	19.5
2 11	7 15.69	+16 26.6	1.770	2.649	11.9	19.7
2 21	7 10.94	+16 48.3	1.848	2.643	15.3	19.9

368765 2005 VV_{111} 1 14.2 219°.53 1°.2/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 5.82	+17 59.5	2.093	2.921	12.4	21.6
12 23	7 59.71	+17 54.2	2.011	2.917	9.1	21.4
1 2	7 51.54	+17 54.4	1.955	2.912	5.3	21.1
1 12	7 42.07	+17 58.4	1.926	2.908	1.6	20.8
1 22	7 32.29	+18 4.1	1.928	2.903	3.3	21.0
2 1	7 23.27	+18 9.9	1.960	2.897	7.3	21.2
2 11	7 15.95	+18 14.7	2.018	2.892	10.9	21.4
2 21	7 10.95	+18 17.7	2.099	2.886	14.0	21.6

177757 2005 JE_{92} 1 14.2 165°.20 0°.6/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.36	+22 30.9	2.153	2.983	12.0	21.1
12 23	8 1.46	+22 42.5	2.080	2.988	8.7	20.9
1 2	7 52.48	+22 56.2	2.032	2.992	4.9	20.6
1 12	7 42.24	+23 8.9	2.014	2.996	1.0	20.4
1 22	7 31.76	+23 17.9	2.026	2.999	3.3	20.5
2 1	7 22.14	+23 21.7	2.068	3.002	7.2	20.8
2 11	7 14.33	+23 20.1	2.138	3.004	10.7	21.0
2 21	7 8.91	+23 13.8	2.231	3.006	13.6	21.2

431355 2007 CF_{49} 1 14.2 250°.75 3°.0/15.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.54	+ 9 23.7	2.793	3.595	10.3	21.8
12 23	7 54.76	+ 9 29.3	2.709	3.593	7.9	21.6
1 2	7 48.58	+ 9 44.9	2.651	3.591	5.3	21.4
1 12	7 41.53	+10 9.7	2.621	3.589	3.2	21.3
1 22	7 34.27	+10 42.2	2.622	3.587	3.6	21.3
2 1	7 27.48	+11 20.0	2.653	3.585	5.9	21.5
2 11	7 21.80	+12 0.5	2.712	3.583	8.5	21.6
2 21	7 17.72	+12 41.3	2.796	3.581	10.9	21.8

81541 2000 HW_{20} 1 14.2 290°.27 0°.1/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.20	+19 27.1	1.703	2.545	14.1	19.3
12 23	7 59.87	+19 52.4	1.615	2.529	10.3	19.0
1 2	7 51.92	+20 25.7	1.550	2.512	5.9	18.7
1 12	7 42.19	+21 3.4	1.513	2.496	1.1	18.3
1 22	7 31.84	+21 40.8	1.504	2.479	3.9	18.5
2 1	7 22.26	+22 14.1	1.523	2.463	8.7	18.8
2 11	7 14.71	+22 40.9	1.567	2.447	13.1	19.0
2 21	7 10.02	+23 0.5	1.632	2.430	16.9	19.2

369420 2009 WF_{168} 1 14.2 116°.07 2°.1/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.87	+14 17.9	2.175	2.994	12.3	21.7
12 23	7 58.82	+14 19.3	2.108	3.007	9.1	21.5
1 2	7 50.93	+14 29.1	2.066	3.019	5.6	21.3
1 12	7 41.96	+14 45.7	2.053	3.030	2.4	21.1
1 22	7 32.82	+15 7.0	2.070	3.042	3.5	21.2
2 1	7 24.46	+15 30.7	2.116	3.053	6.9	21.5
2 11	7 17.72	+15 54.5	2.190	3.064	10.2	21.7
2 21	7 13.13	+16 16.8	2.288	3.074	13.0	21.9

296057 2009 AH_{32} 1 14.2 14°.39 0°.3/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.66	+20 41.3	1.139	2.004	17.9	20.0
12 23	8 0.75	+20 38.1	1.083	2.007	13.1	19.8
1 2	7 52.53	+20 41.7	1.047	2.012	7.5	19.5
1 12	7 42.28	+20 48.3	1.035	2.018	1.4	19.1
1 22	7 31.72	+20 54.2	1.048	2.025	4.8	19.3
2 1	7 22.67	+20 56.7	1.086	2.033	10.5	19.7
2 11	7 16.57	+20 55.0	1.145	2.042	15.5	20.0
2 21	7 14.11	+20 49.0	1.224	2.052	19.7	20.3

489017 2005 WA_{18} 1 14.2 93°.35 2°.3/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.77	+15 57.0	1.433	2.272	16.4	21.4
12 23	8 2.43	+15 47.5	1.370	2.280	12.2	21.2
1 2	7 53.29	+15 48.3	1.329	2.287	7.3	20.9
1 12	7 42.42	+15 57.3	1.315	2.295	2.8	20.7
1 22	7 31.28	+16 11.6	1.328	2.302	4.5	20.8
2 1	7 21.37	+16 28.4	1.368	2.309	9.4	21.1
2 11	7 13.95	+16 45.2	1.432	2.317	13.8	21.4
2 21	7 9.71	+17 0.4	1.518	2.324	17.5	21.7

11418 1999 JN_{118} 1 14.2 43°.02 3°.0/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.26	+12 50.1	1.785	2.612	14.2	17.7
12 23	7 58.80	+12 46.6	1.714	2.615	10.7	17.5
1 2	7 51.11	+12 54.9	1.666	2.618	6.8	17.3
1 12	7 42.04	+13 13.4	1.646	2.621	3.4	17.1
1 22	7 32.68	+13 39.9	1.653	2.625	4.3	17.2
2 1	7 24.18	+14 11.1	1.689	2.628	8.1	17.4
2 11	7 17.58	+14 43.9	1.751	2.632	11.9	17.6
2 21	7 13.49	+15 15.5	1.835	2.636	15.1	17.9

359482 2010 OC_{31} 1 14.2 167°.47 12°.5/21.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.99	−17 30.4	2.156	2.813	17.1	21.0
12 23	7 58.35	−18 14.8	2.084	2.816	15.6	20.9
1 2	7 50.77	−18 29.8	2.030	2.818	14.1	20.8
1 12	7 41.98	−18 11.4	1.996	2.821	13.0	20.7
1 22	7 32.88	−17 18.5	1.985	2.823	12.5	20.7
2 1	7 24.47	−15 54.1	1.998	2.824	13.0	20.7
2 11	7 17.64	−14 4.6	2.034	2.825	14.1	20.8
2 21	7 13.00	−11 58.9	2.092	2.826	15.7	20.9

404120 2013 AZ_{57} 1 14.2 273°.50 0°.9/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 8.47	+22 30.6	1.554	2.400	15.0	21.3
12 23	8 2.50	+22 48.9	1.469	2.385	11.0	21.0
1 2	7 53.54	+23 11.7	1.407	2.369	6.3	20.7
1 12	7 42.54	+23 34.5	1.371	2.354	1.4	20.3
1 22	7 30.87	+23 52.8	1.364	2.338	4.5	20.5
2 1	7 20.15	+24 3.5	1.384	2.322	9.6	20.8
2 11	7 11.80	+24 5.9	1.428	2.306	14.3	21.0
2 21	7 6.71	+24 0.9	1.493	2.290	18.2	21.2

30024 Neildavey 1 14.2 223°.79 1°.6/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.36	+15 55.4	1.733	2.562	14.5	19.8
12 23	8 2.03	+16 8.4	1.648	2.553	10.8	19.5
1 2	7 53.11	+16 31.5	1.587	2.544	6.4	19.2
1 12	7 42.45	+17 2.2	1.554	2.534	2.1	18.9
1 22	7 31.24	+17 36.7	1.550	2.524	4.0	19.0
2 1	7 20.86	+18 11.4	1.574	2.513	8.6	19.3
2 11	7 12.53	+18 43.4	1.625	2.501	12.9	19.5
2 21	7 7.05	+19 11.2	1.697	2.489	16.5	19.7

189438 1998 RO_{62} 1 14.2 100°.37 1°.2/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.26	+16 46.7	1.516	2.351	15.9	20.7
12 23	8 3.29	+17 6.8	1.462	2.371	11.6	20.5
1 2	7 53.68	+17 36.8	1.431	2.390	6.7	20.3
1 12	7 42.51	+18 12.6	1.428	2.409	1.9	20.0
1 22	7 31.20	+18 49.7	1.453	2.428	4.0	20.2
2 1	7 21.19	+19 24.2	1.506	2.446	8.8	20.5
2 11	7 13.62	+19 53.8	1.585	2.464	13.0	20.8
2 21	7 9.11	+20 17.4	1.684	2.481	16.5	21.1

336959 2011 JP_{9} 1 14.2 98°.47 1°.4/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.98	+13 36.4	2.397	3.213	11.4	20.6
12 23	7 57.40	+14 21.2	2.330	3.228	8.4	20.5
1 2	7 50.14	+15 15.8	2.289	3.242	5.0	20.3
1 12	7 41.88	+16 17.0	2.277	3.257	1.8	20.1
1 22	7 33.41	+17 21.0	2.297	3.271	2.9	20.2
2 1	7 25.58	+18 24.1	2.347	3.285	6.3	20.4
2 11	7 19.18	+19 23.0	2.426	3.298	9.3	20.6
2 21	7 14.70	+20 15.8	2.529	3.312	12.0	20.8

320743 2008 EY_{44} 1 14.2 202°.97 1°.0/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.72	+17 15.4	2.242	3.065	11.8	21.7
12 23	7 59.58	+17 26.3	2.158	3.061	8.7	21.5
1 2	7 51.48	+17 43.7	2.100	3.057	5.1	21.3
1 12	7 42.13	+18 5.4	2.071	3.052	1.5	21.0
1 22	7 32.46	+18 28.8	2.072	3.047	3.1	21.1
2 1	7 23.46	+18 51.6	2.104	3.041	6.9	21.3
2 11	7 16.03	+19 12.0	2.163	3.034	10.4	21.5
2 21	7 10.79	+19 29.1	2.246	3.027	13.3	21.7

125431 2001 VT_{114} 1 14.2 132°.72 4°.1/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.79	+29 32.5	1.687	2.527	14.3	19.8
12 23	8 4.58	+30 31.0	1.627	2.538	10.5	19.5
1 2	7 54.51	+31 27.1	1.592	2.548	6.6	19.3
1 12	7 42.69	+32 13.2	1.585	2.558	4.1	19.2
1 22	7 30.56	+32 43.7	1.607	2.567	6.1	19.4
2 1	7 19.69	+32 56.2	1.657	2.576	9.8	19.6
2 11	7 11.33	+32 52.4	1.731	2.584	13.4	19.8
2 21	7 6.20	+32 35.9	1.826	2.592	16.5	20.1

344846 2004 GB_{26} 1 14.2 242°.99 4°.7/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.80	+ 9 55.9	1.471	2.297	16.8	20.5
12 23	8 1.14	+ 9 46.5	1.394	2.292	12.9	20.3
1 2	7 52.69	+ 9 54.1	1.340	2.287	8.7	20.0
1 12	7 42.40	+10 18.4	1.310	2.282	5.1	19.8
1 22	7 31.58	+10 56.7	1.308	2.277	5.8	19.8
2 1	7 21.72	+11 44.5	1.333	2.271	9.9	20.0
2 11	7 14.14	+12 36.8	1.381	2.266	14.2	20.3
2 21	7 9.64	+13 28.8	1.451	2.260	18.1	20.5

113580 2002 TX_{42} 1 14.2 86°.47 5°.3/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.49	+36 6.2	2.221	3.052	11.6	19.6
12 23	8 1.09	+36 57.4	2.157	3.056	8.9	19.4
1 2	7 52.40	+37 41.4	2.120	3.061	6.4	19.3
1 12	7 42.32	+38 12.5	2.110	3.065	5.3	19.2
1 22	7 31.97	+38 26.7	2.129	3.070	6.5	19.3
2 1	7 22.59	+38 23.0	2.176	3.074	9.0	19.4
2 11	7 15.18	+38 3.4	2.248	3.079	11.6	19.6
2 21	7 10.38	+37 31.3	2.342	3.083	14.0	19.8

90452 2004 BO_{122} 1 14.2 5°.78 8°.4/19.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.87	− 3 56.9	1.324	2.118	20.0	17.2
12 23	7 54.76	− 2 57.1	1.256	2.119	16.6	17.0
1 2	7 49.08	− 1 17.1	1.207	2.123	12.8	16.8
1 12	7 41.75	+ 1 2.3	1.181	2.129	9.5	16.6
1 22	7 33.99	+ 3 53.0	1.181	2.136	8.5	16.6
2 1	7 27.19	+ 7 1.5	1.207	2.146	10.7	16.7
2 11	7 22.55	+10 12.0	1.260	2.158	14.3	17.0
2 21	7 20.83	+13 11.0	1.336	2.171	17.9	17.2

493348 2014 WX_{7} 1 14.2 130°.42 3°.1/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.25	+11 59.8	2.148	2.958	12.7	21.7
12 23	7 59.84	+11 48.6	2.080	2.971	9.6	21.5
1 2	7 51.55	+11 47.3	2.037	2.983	6.2	21.3
1 12	7 42.16	+11 55.0	2.023	2.995	3.4	21.1
1 22	7 32.61	+12 10.0	2.038	3.007	4.1	21.2
2 1	7 23.86	+12 30.2	2.084	3.017	7.2	21.4
2 11	7 16.76	+12 53.2	2.157	3.028	10.4	21.6
2 21	7 11.85	+13 16.7	2.253	3.037	13.2	21.8

203846 2002 VD_{63} 1 14.2 81°.22 2°.0/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.66	+27 2.4	2.235	3.069	11.4	20.0
12 23	8 0.13	+27 24.2	2.180	3.090	8.3	19.8
1 2	7 51.69	+27 44.7	2.151	3.110	4.8	19.6
1 12	7 42.18	+28 0.1	2.151	3.130	2.1	19.5
1 22	7 32.60	+28 7.9	2.182	3.150	3.9	19.6
2 1	7 23.97	+28 7.0	2.242	3.170	7.1	19.9
2 11	7 17.12	+27 58.0	2.329	3.190	10.2	20.1
2 21	7 12.55	+27 42.4	2.439	3.209	12.7	20.3

126443 2002 CV_{15} 1 14.2 297°.86 1°.7/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.82	+16 25.1	1.470	2.313	15.8	19.5
12 23	8 0.58	+16 33.6	1.388	2.301	11.8	19.2
1 2	7 52.46	+16 53.3	1.329	2.289	7.0	18.9
1 12	7 42.39	+17 21.7	1.296	2.277	2.3	18.6
1 22	7 31.69	+17 54.6	1.290	2.265	4.4	18.7
2 1	7 21.92	+18 28.1	1.311	2.254	9.5	19.0
2 11	7 14.46	+18 58.9	1.356	2.243	14.2	19.2
2 21	7 10.17	+19 25.1	1.421	2.232	18.3	19.5

240275 2002 XN_{120} 1 14.2 300°.71 2°.7/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.79	+26 35.9	2.190	3.030	11.4	20.0
12 23	7 58.45	+27 40.2	2.111	3.023	8.3	19.8
1 2	7 50.98	+28 46.5	2.057	3.016	5.0	19.6
1 12	7 42.10	+29 49.3	2.033	3.009	2.7	19.4
1 22	7 32.77	+30 43.5	2.039	3.003	4.6	19.5
2 1	7 24.10	+31 25.5	2.074	2.996	8.0	19.7
2 11	7 17.10	+31 54.2	2.135	2.989	11.2	19.9
2 21	7 12.45	+32 10.4	2.218	2.983	14.0	20.1

59177 1999 AT_{7} 1 14.2 39°.51 4°.0/12.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.74	+26 13.3	1.035	1.906	18.9	17.8
12 23	8 3.17	+27 19.4	0.999	1.926	13.6	17.6
1 2	7 53.94	+28 26.5	0.984	1.948	8.0	17.4
1 12	7 42.61	+29 23.9	0.993	1.971	4.0	17.2
1 22	7 31.22	+30 3.8	1.026	1.995	6.8	17.5
2 1	7 21.80	+30 23.1	1.082	2.019	11.8	17.8
2 11	7 15.79	+30 23.7	1.161	2.044	16.4	18.2
2 21	7 13.75	+30 9.9	1.257	2.070	20.1	18.5

242958 2006 SJ_{29} 1 14.2 241°.66 0°.5/14.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.16	+19 43.4	2.453	3.280	10.8	20.5
12 23	7 58.33	+19 38.7	2.367	3.273	7.9	20.3
1 2	7 50.73	+19 37.3	2.308	3.266	4.5	20.1
1 12	7 42.03	+19 37.6	2.277	3.260	1.0	19.8
1 22	7 33.07	+19 38.0	2.278	3.252	2.9	19.9
2 1	7 24.75	+19 37.4	2.308	3.245	6.4	20.2
2 11	7 17.86	+19 34.9	2.367	3.238	9.6	20.4
2 21	7 12.96	+19 30.4	2.449	3.230	12.4	20.5

398141 2010 CY_{158} 1 14.2 221°.12 4°.2/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.68	+31 25.8	1.860	2.694	13.4	21.9
12 23	8 5.27	+32 4.5	1.779	2.686	10.0	21.6
1 2	7 55.00	+32 39.1	1.723	2.676	6.5	21.4
1 12	7 42.85	+33 3.1	1.695	2.666	4.2	21.3
1 22	7 30.19	+33 11.3	1.696	2.655	6.0	21.3
2 1	7 18.57	+33 2.3	1.726	2.643	9.7	21.5
2 11	7 9.31	+32 38.1	1.782	2.631	13.3	21.7
2 21	7 3.19	+32 2.6	1.858	2.618	16.5	21.9

265895 2006 AB_{78} 1 14.2 168°.71 0°.7/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.53	+17 32.5	2.418	3.241	11.1	21.0
12 23	7 58.58	+17 55.6	2.341	3.244	8.1	20.8
1 2	7 50.87	+18 25.0	2.290	3.247	4.7	20.6
1 12	7 42.07	+18 58.0	2.268	3.250	1.2	20.3
1 22	7 33.01	+19 31.9	2.278	3.252	2.9	20.4
2 1	7 24.59	+20 3.9	2.318	3.254	6.4	20.7
2 11	7 17.62	+20 32.4	2.386	3.255	9.6	20.9
2 21	7 12.65	+20 56.3	2.478	3.256	12.3	21.1

409246 2004 EG_{77} 1 14.2 290°.79 6°.7/17.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.06	+ 3 7.3	1.727	2.524	15.9	21.1
12 23	7 58.17	+ 2 58.7	1.640	2.512	12.9	20.8
1 2	7 50.94	+ 3 11.5	1.574	2.499	9.6	20.6
1 12	7 42.12	+ 3 46.7	1.534	2.487	7.1	20.4
1 22	7 32.76	+ 4 42.9	1.520	2.474	7.1	20.4
2 1	7 24.08	+ 5 55.5	1.534	2.462	9.7	20.5
2 11	7 17.21	+ 7 18.1	1.573	2.450	13.2	20.7
2 21	7 12.90	+ 8 44.0	1.633	2.438	16.6	20.9

192915 1999 XD_{251} 1 14.2 50°.59 0°.6/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 5.06	+22 4.6	1.896	2.736	12.9	20.7
12 23	7 59.32	+22 22.5	1.831	2.744	9.3	20.5
1 2	7 51.40	+22 43.9	1.791	2.753	5.3	20.3
1 12	7 42.17	+23 5.1	1.778	2.761	1.1	20.0
1 22	7 32.72	+23 23.1	1.795	2.770	3.6	20.2
2 1	7 24.21	+23 35.6	1.841	2.778	7.7	20.5
2 11	7 17.62	+23 41.8	1.912	2.787	11.3	20.7
2 21	7 13.53	+23 42.2	2.006	2.796	14.4	21.0

117677 2005 EL_{221} 1 14.2 119°.79 1°.4/14.8 18

12 13	8 3.16	+16 12.9	2.305	3.129	11.5	20.3
12 23	7 57.63	+16 17.5	2.229	3.133	8.5	20.1
1 2	7 50.34	+16 28.9	2.180	3.136	5.0	19.9
1 12	7 41.98	+16 45.3	2.159	3.139	1.8	19.7
1 22	7 33.39	+17 4.7	2.169	3.143	3.1	19.8
2 1	7 25.48	+17 24.9	2.208	3.146	6.5	20.0
2 11	7 19.06	+17 44.2	2.274	3.149	9.8	20.2
2 21	7 14.65	+18 1.3	2.365	3.152	12.6	20.4

518219 2016 RE_{19} 1 14.2 44°.80 23°.1/30.9 18

12 13	8 5.27	−26 10.7	1.039	1.719	30.9	21.3
12 23	8 0.83	−27 19.6	0.990	1.724	29.0	21.1
1 2	7 52.82	−27 29.0	0.950	1.730	27.0	21.0
1 12	7 42.49	−26 26.5	0.920	1.737	25.0	20.9
1 22	7 31.59	−24 7.2	0.904	1.744	23.6	20.8
2 1	7 22.13	−20 37.4	0.905	1.751	23.1	20.8
2 11	7 15.79	−16 15.9	0.924	1.758	23.8	20.9
2 21	7 13.43	−11 28.4	0.961	1.766	25.5	21.0

42901 1999 RN_{196} 1 14.2 182°.65 1°.9/14.8 18

12 13	8 10.63	+16 1.7	1.753	2.578	14.5	19.5
12 23	8 3.54	+16 1.4	1.676	2.579	10.8	19.3
1 2	7 53.90	+16 9.8	1.624	2.580	6.5	19.0
1 12	7 42.65	+16 24.7	1.599	2.579	2.3	18.7
1 22	7 31.02	+16 43.3	1.604	2.578	4.0	18.8
2 1	7 20.34	+17 2.8	1.639	2.576	8.5	19.1
2 11	7 11.80	+17 21.3	1.699	2.573	12.6	19.3
2 21	7 6.10	+17 37.5	1.782	2.569	16.1	19.6

83905 2001 UY_{182} 1 14.2 4°.06 4°.3/12.1 18

12 13	8 4.97	+31 53.4	2.115	2.955	11.8	19.4
12 23	7 59.37	+32 50.7	2.047	2.955	8.8	19.2
1 2	7 51.50	+33 44.7	2.004	2.956	5.8	19.0
1 12	7 42.21	+34 29.5	1.989	2.956	4.3	18.9
1 22	7 32.58	+35 0.6	2.004	2.957	5.8	19.0
2 1	7 23.79	+35 15.7	2.046	2.957	8.7	19.2
2 11	7 16.88	+35 15.7	2.113	2.959	11.7	19.4
2 21	7 12.51	+35 3.0	2.203	2.960	14.3	19.6

465979 2011 CX_{45} 1 14.2 193°.98 0°.2/14.3 16

12 13	8 4.41	+18 27.0	2.328	3.154	11.3	21.7
12 23	7 58.64	+19 5.5	2.246	3.153	8.2	21.5
1 2	7 50.99	+19 50.7	2.191	3.151	4.7	21.3
1 12	7 42.13	+20 39.3	2.166	3.148	0.9	21.0
1 22	7 32.93	+21 27.5	2.171	3.146	3.0	21.2
2 1	7 24.35	+22 12.0	2.207	3.143	6.7	21.4
2 11	7 17.26	+22 50.8	2.270	3.139	10.0	21.6
2 21	7 12.26	+23 22.7	2.358	3.136	12.9	21.8

456451 2006 VG_{102} 1 14.2 60°.55 3°.4/15.3 18

12 13	8 7.29	+13 12.2	1.546	2.377	15.8	21.5
12 23	8 1.05	+12 51.0	1.494	2.397	11.8	21.3
1 2	7 52.39	+12 41.9	1.465	2.417	7.5	21.1
1 12	7 42.37	+12 43.9	1.462	2.437	3.8	20.9
1 22	7 32.26	+12 54.8	1.487	2.457	4.8	21.0
2 1	7 23.37	+13 12.0	1.539	2.478	8.7	21.3
2 11	7 16.73	+13 32.3	1.616	2.499	12.6	21.6
2 21	7 12.90	+13 53.3	1.715	2.519	15.9	21.8

167102 2003 SB_{47} 1 14.2 122°.45 3°.6/15.7 18

12 13	8 7.83	+10 13.1	1.964	2.771	13.9	20.7
12 23	8 1.09	+10 10.4	1.901	2.789	10.5	20.5
1 2	7 52.32	+10 20.3	1.863	2.807	6.9	20.3
1 12	7 42.36	+10 41.7	1.853	2.824	4.0	20.2
1 22	7 32.25	+11 12.2	1.873	2.840	4.5	20.2
2 1	7 23.06	+11 48.5	1.922	2.856	7.7	20.4
2 11	7 15.69	+12 27.2	1.999	2.870	11.1	20.7
2 21	7 10.71	+13 5.6	2.098	2.884	14.0	20.9

175961 2000 JK_{1} 1 14.2 188°.37 8°.9/20.1 18

12 13	8 3.62	−13 3.3	2.901	3.566	12.9	20.9
12 23	7 57.70	−13 27.9	2.815	3.565	11.5	20.8
1 2	7 50.31	−13 31.7	2.751	3.563	10.2	20.7
1 12	7 42.01	−13 12.4	2.711	3.561	9.1	20.6
1 22	7 33.45	−12 29.9	2.698	3.558	8.9	20.6
2 1	7 25.36	−11 26.3	2.712	3.553	9.5	20.6
2 11	7 18.42	−10 5.8	2.752	3.548	10.7	20.7
2 21	7 13.12	− 8 33.9	2.815	3.543	12.2	20.8

205614 2001 UU_{172} 1 14.2 23°.97 1°.0/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 3.36	+22 58.5	2.029	2.870	12.2	20.3
12 23	7 58.05	+23 22.0	1.960	2.875	8.8	20.1
1 2	7 50.68	+23 48.2	1.918	2.880	5.0	19.8
1 12	7 42.08	+24 13.7	1.903	2.885	1.2	19.6
1 22	7 33.24	+24 35.1	1.917	2.890	3.5	19.8
2 1	7 25.22	+24 50.3	1.960	2.896	7.4	20.0
2 11	7 18.97	+24 58.5	2.030	2.903	10.9	20.2
2 21	7 15.05	+25 0.0	2.122	2.909	13.8	20.4

256756 2008 BT_{35} 1 14.2 93°.46 0°.9/14.6 18

12 13	8 6.84	+16 57.4	1.828	2.659	13.8	20.5
12 23	8 0.57	+17 25.1	1.770	2.677	10.0	20.3
1 2	7 52.11	+18 1.2	1.736	2.695	5.8	20.1
1 12	7 42.34	+18 42.3	1.731	2.713	1.5	19.9
1 22	7 32.41	+19 24.1	1.755	2.730	3.5	20.0
2 1	7 23.47	+20 3.1	1.808	2.747	7.7	20.3
2 11	7 16.50	+20 36.9	1.887	2.763	11.4	20.6
2 21	7 12.08	+21 4.6	1.989	2.780	14.5	20.8

381322 2007 VA_{251} 1 14.2 46°.79 1°.9/14.8 18

12 13	8 4.56	+16 39.0	2.119	2.946	12.3	20.0
12 23	7 58.70	+16 15.7	2.050	2.954	9.1	19.8
1 2	7 50.97	+15 58.2	2.006	2.962	5.5	19.6
1 12	7 42.14	+15 45.7	1.991	2.970	2.2	19.4
1 22	7 33.15	+15 37.1	2.005	2.978	3.5	19.5
2 1	7 24.98	+15 31.4	2.048	2.986	7.0	19.8
2 11	7 18.47	+15 27.6	2.119	2.995	10.3	20.0
2 21	7 14.14	+15 24.7	2.213	3.004	13.2	20.2

426952 2013 YT_{25} 1 14.2 283°.38 1°.2/14.7 17

12 13	8 3.40	+17 26.0	2.243	3.071	11.6	21.1
12 23	7 57.99	+17 24.6	2.153	3.058	8.6	20.9
1 2	7 50.66	+17 29.1	2.088	3.046	5.1	20.6
1 12	7 42.10	+17 37.9	2.052	3.033	1.6	20.4
1 22	7 33.19	+17 49.1	2.046	3.020	3.2	20.5
2 1	7 24.88	+18 0.7	2.069	3.008	6.9	20.7
2 11	7 18.08	+18 11.4	2.120	2.995	10.4	20.9
2 21	7 13.40	+18 20.2	2.194	2.983	13.4	21.1

430688 2003 WB_{166} 1 14.2 184°.03 18°.1/19.3 18

12 13	8 8.83	−13 19.5	1.251	1.983	24.1	21.0
12 23	8 3.00	−15 27.8	1.193	1.984	21.9	20.8
1 2	7 53.96	−16 58.8	1.150	1.984	19.8	20.7
1 12	7 42.75	−17 41.6	1.124	1.984	18.4	20.6
1 22	7 30.90	−17 30.8	1.118	1.983	18.1	20.6
2 1	7 20.17	−16 28.5	1.131	1.982	19.1	20.6
2 11	7 12.11	−14 45.0	1.163	1.981	20.9	20.7
2 21	7 7.60	−12 34.5	1.211	1.980	23.2	20.9

198842 2005 GT_{85} 1 14.2 357°.36 1°.0/13.8 18

12 13	8 4.23	+23 9.6	2.118	2.957	11.8	20.5
12 23	7 58.67	+23 34.7	2.044	2.956	8.6	20.3
1 2	7 51.05	+24 2.5	1.995	2.956	4.9	20.1
1 12	7 42.17	+24 29.3	1.974	2.956	1.3	19.8
1 22	7 33.00	+24 52.0	1.983	2.956	3.5	20.0
2 1	7 24.59	+25 8.2	2.021	2.956	7.3	20.2
2 11	7 17.89	+25 17.3	2.086	2.956	10.8	20.4
2 21	7 13.50	+25 19.4	2.173	2.956	13.7	20.6

427778 2005 BE 1 14.2 195°.92 4°.8/15.6 15

12 13	9 12.58	−13 8.2	0.477	1.245	47.1	20.7
12 23	9 0.25	− 9 6.1	0.393	1.254	39.5	20.1
1 2	8 34.94	− 1 34.9	0.319	1.256	27.4	19.3
1 12	7 52.12	+10 50.7	0.270	1.249	9.5	18.4
1 22	6 52.43	+26 7.1	0.262	1.234	15.5	18.5
2 1	5 49.15	+38 12.4	0.297	1.212	35.4	19.3
2 11	4 58.99	+45 12.0	0.356	1.181	49.3	20.1
2 21	4 26.29	+49 9.7	0.423	1.142	58.4	20.6

231057 2005 JG_{167} 1 14.2 109°.20 0°.2/14.3 18

12 13	8 9.28	+20 19.7	2.122	2.947	12.3	20.4
12 23	8 2.01	+20 28.4	2.065	2.971	8.9	20.2
1 2	7 52.78	+20 40.6	2.035	2.994	5.0	20.0
1 12	7 42.47	+20 53.6	2.034	3.017	0.9	19.8
1 22	7 32.10	+21 4.9	2.064	3.039	3.1	20.0
2 1	7 22.73	+21 13.0	2.125	3.060	7.0	20.3
2 11	7 15.20	+21 17.1	2.212	3.081	10.3	20.5
2 21	7 10.03	+21 17.6	2.324	3.100	13.1	20.8

120730 Zhouyouyuan 1 14.2 71°.39 1°.0/14.5 17

12 13	8 11.07	+18 6.2	1.362	2.205	16.9	20.3
12 23	8 4.00	+18 18.2	1.319	2.232	12.3	20.1
1 2	7 54.12	+18 38.9	1.298	2.259	7.0	19.9
1 12	7 42.72	+19 4.0	1.304	2.286	1.7	19.6
1 22	7 31.33	+19 29.4	1.337	2.313	4.2	19.8
2 1	7 21.49	+19 51.7	1.398	2.340	9.2	20.2
2 11	7 14.35	+20 9.2	1.483	2.366	13.5	20.5
2 21	7 10.45	+20 21.6	1.589	2.392	17.0	20.8

498982 2009 BH_{154} 1 14.2 332.°05 0.°6/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 2.03	+16 52.1	2.190	3.021	11.8	21.4
12 23	7 57.03	+17 31.9	2.110	3.018	8.6	21.2
1 2	7 50.14	+18 20.3	2.056	3.015	5.0	21.0
1 12	7 42.02	+19 14.1	2.030	3.012	1.2	20.7
1 22	7 33.56	+20 9.4	2.034	3.009	3.1	20.8
2 1	7 25.71	+21 2.3	2.068	3.007	6.9	21.1
2 11	7 19.38	+21 49.9	2.129	3.004	10.3	21.3
2 21	7 15.17	+22 30.6	2.213	3.002	13.3	21.5

29508 Bottinelli 1 14.2 35.°04 0.°6/13.9 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.71	+21 28.5	1.828	2.672	13.2	18.6
12 23	7 58.41	+21 54.3	1.769	2.685	9.5	18.4
1 2	7 50.92	+22 24.6	1.735	2.697	5.3	18.2
1 12	7 42.15	+22 55.5	1.728	2.711	1.1	17.9
1 22	7 33.20	+23 23.2	1.750	2.724	3.6	18.1
2 1	7 25.20	+23 45.0	1.800	2.739	7.7	18.4
2 11	7 19.14	+23 59.9	1.876	2.753	11.4	18.7
2 21	7 15.57	+24 7.9	1.974	2.768	14.5	18.9

193042 2000 EO_{162} 1 14.2 273.°64 1.°5/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.35	+16 39.4	1.460	2.302	16.0	20.8
12 23	8 1.76	+16 50.4	1.378	2.290	11.9	20.5
1 2	7 53.22	+17 12.6	1.319	2.279	7.1	20.2
1 12	7 42.64	+17 43.1	1.285	2.267	2.2	19.9
1 22	7 31.40	+18 17.7	1.279	2.254	4.4	20.0
2 1	7 21.10	+18 52.1	1.300	2.242	9.6	20.3
2 11	7 13.16	+19 23.1	1.345	2.230	14.4	20.5
2 21	7 8.48	+19 49.0	1.410	2.218	18.5	20.7

492477 2014 NK_{37} 1 14.2 209.°70 0.°9/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.03	+19 0.6	2.045	2.868	12.8	22.6
12 23	8 2.91	+18 51.0	1.958	2.861	9.4	22.4
1 2	7 53.52	+18 45.7	1.896	2.854	5.5	22.1
1 12	7 42.66	+18 42.6	1.864	2.846	1.4	21.8
1 22	7 31.43	+18 40.0	1.863	2.837	3.4	21.9
2 1	7 20.99	+18 36.5	1.891	2.827	7.6	22.2
2 11	7 12.41	+18 31.6	1.947	2.817	11.4	22.4
2 21	7 6.35	+18 25.3	2.026	2.806	14.7	22.6

20036 1992 UW_1 1 14.2 165.°17 1.°1/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.98	+22 43.2	2.005	2.837	12.7	18.6
12 23	8 2.18	+23 20.0	1.933	2.843	9.2	18.4
1 2	7 53.10	+24 0.3	1.887	2.847	5.2	18.2
1 12	7 42.58	+24 39.4	1.870	2.852	1.4	17.9
1 22	7 31.74	+25 13.2	1.883	2.855	3.8	18.1
2 1	7 21.78	+25 38.8	1.926	2.858	7.8	18.4
2 11	7 13.75	+25 55.4	1.995	2.860	11.4	18.6
2 21	7 8.30	+26 3.8	2.088	2.861	14.5	18.8

131904 2002 BD_8 1 14.2 319.°71 3.°7/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.89	+29 21.8	1.325	2.181	16.4	18.9
12 23	8 4.02	+29 34.5	1.249	2.168	12.2	18.6
1 2	7 54.63	+29 43.3	1.195	2.156	7.5	18.3
1 12	7 42.91	+29 41.5	1.166	2.144	3.8	18.0
1 22	7 30.58	+29 24.4	1.163	2.133	6.2	18.2
2 1	7 19.61	+28 51.3	1.186	2.122	11.2	18.4
2 11	7 11.63	+28 5.4	1.232	2.112	15.9	18.6
2 21	7 7.49	+27 11.6	1.297	2.102	20.0	18.9

36295 2000 HV_{30} 1 14.2 163.°48 0.°4/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.98	+19 14.9	2.027	2.851	12.8	20.4
12 23	8 2.79	+19 28.6	1.954	2.859	9.4	20.2
1 2	7 53.39	+19 47.5	1.907	2.865	5.4	19.9
1 12	7 42.64	+20 8.6	1.888	2.871	1.1	19.6
1 22	7 31.62	+20 28.8	1.901	2.876	3.3	19.8
2 1	7 21.49	+20 45.8	1.944	2.879	7.5	20.1
2 11	7 13.26	+20 58.6	2.014	2.882	11.1	20.3
2 21	7 7.54	+21 6.9	2.107	2.884	14.2	20.5

304094 2006 HV_{32} 1 14.2 235.°81 1.°9/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.87	+22 55.0	1.688	2.531	14.1	20.7
12 23	8 1.92	+23 54.1	1.610	2.525	10.3	20.4
1 2	7 53.22	+24 59.5	1.556	2.518	5.9	20.1
1 12	7 42.64	+26 4.8	1.530	2.511	2.0	19.9
1 22	7 31.48	+27 3.2	1.532	2.503	4.7	20.0
2 1	7 21.18	+27 49.9	1.563	2.496	9.2	20.3
2 11	7 13.09	+28 23.1	1.619	2.488	13.4	20.5
2 21	7 8.01	+28 43.6	1.697	2.480	16.9	20.7

149483 2003 EN_{36} 1 14.2 16.°47 1.°6/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.83	+17 14.3	0.996	1.870	19.1	18.7
12 23	7 57.41	+17 21.8	0.954	1.882	14.0	18.5
1 2	7 50.73	+17 42.8	0.931	1.896	8.2	18.2
1 12	7 42.15	+18 13.2	0.930	1.912	2.3	17.9
1 22	7 33.41	+18 47.3	0.954	1.931	4.8	18.1
2 1	7 26.25	+19 20.1	1.000	1.952	10.5	18.5
2 11	7 22.02	+19 47.8	1.068	1.974	15.5	18.9
2 21	7 21.31	+20 8.4	1.154	1.998	19.5	19.2

292015 2006 QH_{145} 1 14.2 171.°88 0.°1/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 3.22	+20 54.5	2.736	3.563	9.8	22.1
12 23	7 57.53	+21 11.8	2.658	3.565	7.1	21.9
1 2	7 50.28	+21 32.2	2.607	3.566	4.0	21.7
1 12	7 42.07	+21 53.3	2.585	3.568	0.7	21.5
1 22	7 33.66	+22 12.9	2.595	3.569	2.6	21.6
2 1	7 25.82	+22 29.3	2.636	3.570	5.8	21.8
2 11	7 19.27	+22 41.5	2.704	3.571	8.7	22.0
2 21	7 14.50	+22 49.3	2.797	3.571	11.2	22.2

118309 1998 VR_9 1 14.2 143.°37 2.°8/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.57	+26 59.9	1.750	2.587	14.0	20.3
12 23	8 5.03	+27 39.9	1.687	2.598	10.2	20.1
1 2	7 54.80	+28 19.2	1.650	2.608	6.0	19.8
1 12	7 42.92	+28 51.7	1.640	2.618	2.8	19.7
1 22	7 30.79	+29 12.8	1.660	2.628	5.0	19.8
2 1	7 19.85	+29 20.4	1.709	2.636	9.0	20.1
2 11	7 11.31	+29 15.7	1.784	2.644	12.8	20.3
2 21	7 5.85	+29 1.2	1.880	2.651	15.9	20.6

409843 2006 RG_{50} 1 14.2 77.°03 5.°4/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.86	+ 6 34.3	1.686	2.494	15.8	21.7
12 23	7 59.93	+ 6 21.5	1.630	2.512	12.3	21.5
1 2	7 51.79	+ 6 26.6	1.596	2.531	8.7	21.3
1 12	7 42.35	+ 6 49.3	1.588	2.550	5.8	21.2
1 22	7 32.77	+ 7 27.0	1.607	2.568	6.0	21.3
2 1	7 24.21	+ 8 15.5	1.655	2.586	8.9	21.5
2 11	7 17.64	+ 9 9.8	1.728	2.604	12.2	21.7
2 21	7 13.64	+10 5.1	1.823	2.622	15.3	21.9

6944 Elaineowens 1 14.2 174.°68 0.°7/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.25	+17 3.5	1.800	2.629	14.0	18.5
12 23	8 1.86	+17 40.5	1.725	2.632	10.3	18.2
1 2	7 53.03	+18 27.3	1.675	2.634	6.0	18.0
1 12	7 42.61	+19 19.7	1.653	2.635	1.4	17.7
1 22	7 31.79	+20 12.8	1.661	2.636	3.6	17.9
2 1	7 21.83	+21 2.3	1.698	2.636	8.1	18.1
2 11	7 13.89	+21 45.2	1.762	2.636	12.2	18.4
2 21	7 8.66	+22 20.3	1.847	2.635	15.6	18.6

280734 2005 JY_{87} 1 14.2 40.°89 5.°1/16.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.40	+ 6 42.3	1.991	2.795	13.8	20.3
12 23	7 57.27	+ 6 21.3	1.922	2.803	10.9	20.1
1 2	7 50.25	+ 6 15.2	1.877	2.810	7.8	20.0
1 12	7 42.08	+ 6 24.3	1.858	2.818	5.4	19.8
1 22	7 33.69	+ 6 47.1	1.867	2.826	5.6	19.9
2 1	7 26.06	+ 7 21.0	1.905	2.834	8.1	20.0
2 11	7 20.04	+ 8 2.1	1.968	2.842	11.1	20.2
2 21	7 16.20	+ 8 46.5	2.054	2.851	13.9	20.4

226754 2004 RC_{50} 1 14.2 123.°62 3.°1/15.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.60	+10 4.4	2.342	3.146	12.0	21.4
12 23	7 58.59	+10 12.4	2.275	3.161	9.1	21.2
1 2	7 50.89	+10 31.6	2.234	3.176	6.0	21.0
1 12	7 42.19	+11 0.7	2.221	3.191	3.4	20.9
1 22	7 33.34	+11 37.3	2.238	3.205	3.9	20.9
2 1	7 25.18	+12 18.5	2.285	3.219	6.7	21.1
2 11	7 18.49	+13 1.3	2.361	3.232	9.6	21.3
2 21	7 13.77	+13 43.1	2.461	3.244	12.2	21.5

240524 2004 FC_{112} 1 14.2 326.°92 4.°6/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.21	+ 6 23.2	2.270	3.068	12.5	20.7
12 23	7 56.31	+ 6 16.6	2.188	3.065	9.9	20.5
1 2	7 49.69	+ 6 23.9	2.131	3.063	7.0	20.3
1 12	7 41.99	+ 6 45.1	2.101	3.061	4.9	20.2
1 22	7 34.00	+ 7 18.7	2.100	3.059	5.0	20.2
2 1	7 26.61	+ 8 1.9	2.128	3.057	7.4	20.3
2 11	7 20.60	+ 8 51.0	2.182	3.055	10.2	20.5
2 21	7 16.52	+ 9 42.4	2.261	3.053	12.9	20.7

329280 1999 VD_{141} 1 14.2 95.°38 6.°1/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.86	+37 15.2	2.073	2.903	12.4	21.0
12 23	8 3.00	+38 24.2	2.021	2.916	9.6	20.9
1 2	7 53.62	+39 24.7	1.993	2.930	7.1	20.8
1 12	7 42.71	+40 9.6	1.994	2.943	6.1	20.7
1 22	7 31.56	+40 34.3	2.023	2.956	7.3	20.8
2 1	7 21.51	+40 37.7	2.079	2.969	9.8	21.0
2 11	7 13.69	+40 22.4	2.160	2.981	12.4	21.2
2 21	7 8.73	+39 52.7	2.262	2.994	14.7	21.4

238379 2004 CV_{100} 1 14.2 254.°49 5.°9/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.53	+40 55.5	2.614	3.428	10.6	20.4
12 23	8 2.56	+41 38.7	2.532	3.414	8.5	20.3
1 2	7 53.34	+42 12.5	2.476	3.399	6.7	20.1
1 12	7 42.67	+42 31.5	2.448	3.385	5.9	20.1
1 22	7 31.64	+42 32.1	2.448	3.370	6.9	20.1
2 1	7 21.42	+42 13.6	2.477	3.355	8.9	20.2
2 11	7 13.05	+41 38.1	2.532	3.339	11.2	20.3
2 21	7 7.20	+40 49.7	2.609	3.324	13.3	20.5

206547 2003 UO_{217} 1 14.2 75°.26 5°.7/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 8.02	+35 54.2	2.057	2.891	12.3	20.1
12 23	8 1.72	+37 2.2	1.997	2.897	9.5	19.9
1 2	7 52.93	+38 3.3	1.963	2.904	6.9	19.8
1 12	7 42.59	+38 50.4	1.957	2.911	5.7	19.7
1 22	7 31.94	+39 18.8	1.979	2.918	7.1	19.8
2 1	7 22.29	+39 26.9	2.029	2.925	9.7	20.0
2 11	7 14.78	+39 16.6	2.103	2.932	12.4	20.2
2 21	7 10.07	+38 51.8	2.198	2.938	14.8	20.4

80494 2000 AM_{47} 1 14.2 244°.75 1°.1/14.7 18

12 13	8 7.41	+16 10.8	1.486	2.326	15.9	19.3
12 23	8 1.75	+16 44.9	1.409	2.320	11.8	19.0
1 2	7 53.19	+17 32.2	1.355	2.314	6.9	18.7
1 12	7 42.68	+18 28.5	1.327	2.308	1.9	18.4
1 22	7 31.57	+19 28.0	1.327	2.302	4.2	18.5
2 1	7 21.41	+20 24.8	1.354	2.296	9.4	18.8
2 11	7 13.59	+21 15.0	1.406	2.289	14.1	19.0
2 21	7 8.95	+21 56.5	1.479	2.283	18.0	19.3

449536 2014 HQ_{72} 1 14.2 73°.01 4°.5/15.9 18

12 13	8 10.24	+ 9 23.4	1.416	2.237	17.6	21.0
12 23	8 3.22	+ 9 23.6	1.375	2.269	13.3	20.8
1 2	7 53.65	+ 9 41.8	1.355	2.301	8.7	20.7
1 12	7 42.70	+10 15.8	1.362	2.333	5.0	20.5
1 22	7 31.79	+11 1.4	1.396	2.364	5.5	20.6
2 1	7 22.31	+11 53.2	1.458	2.395	9.3	20.9
2 11	7 15.31	+12 46.3	1.544	2.426	13.2	21.2
2 21	7 11.33	+13 36.5	1.652	2.456	16.4	21.5

490644 2010 EG_{94} 1 14.2 289°.21 2°.9/13.3 18

12 13	8 8.93	+26 1.4	1.409	2.262	15.8	21.5
12 23	8 3.21	+26 41.6	1.331	2.250	11.6	21.2
1 2	7 54.18	+27 24.4	1.276	2.238	6.9	20.9
1 12	7 42.89	+28 2.6	1.247	2.227	3.0	20.6
1 22	7 30.91	+28 29.8	1.245	2.215	5.7	20.8
2 1	7 20.04	+28 42.3	1.269	2.204	10.7	21.0
2 11	7 11.87	+28 40.3	1.316	2.192	15.4	21.2
2 21	7 7.32	+28 26.4	1.383	2.181	19.4	21.5

490744 2010 SG_{37} 1 14.2 73°.37 4°.5/12.9 18

12 13	8 11.81	+31 46.6	1.658	2.500	14.4	20.7
12 23	8 4.50	+32 26.9	1.612	2.522	10.7	20.5
1 2	7 54.45	+33 1.1	1.590	2.543	6.8	20.3
1 12	7 42.87	+33 22.7	1.595	2.565	4.5	20.3
1 22	7 31.26	+33 27.7	1.628	2.587	6.2	20.4
2 1	7 21.11	+33 15.6	1.689	2.609	9.7	20.7
2 11	7 13.57	+32 49.5	1.775	2.630	13.1	20.9
2 21	7 9.18	+32 13.5	1.881	2.651	16.0	21.2

200990 2002 CD_{140} 1 14.2 12°.04 3°.0/14.9 18

12 13	8 3.32	+15 37.5	1.026	1.892	19.3	19.6
12 23	7 59.31	+15 20.3	0.972	1.895	14.4	19.3
1 2	7 51.93	+15 17.4	0.938	1.900	8.8	19.1
1 12	7 42.46	+15 27.2	0.926	1.906	3.6	18.8
1 22	7 32.64	+15 46.1	0.938	1.914	5.4	18.9
2 1	7 24.32	+16 9.8	0.973	1.924	10.9	19.2
2 11	7 18.99	+16 34.2	1.030	1.934	16.1	19.6
2 21	7 17.34	+16 56.3	1.105	1.947	20.4	19.9

18121 Konovalenko 1 14.2 91°.25 0°.4/14.1 18

12 13	8 4.47	+21 33.5	2.517	3.345	10.5	19.4
12 23	7 58.43	+21 53.9	2.459	3.367	7.6	19.2
1 2	7 50.77	+22 16.9	2.428	3.388	4.2	19.1
1 12	7 42.21	+22 39.8	2.426	3.408	0.8	18.8
1 22	7 33.55	+23 0.1	2.455	3.429	2.8	19.0
2 1	7 25.63	+23 16.1	2.515	3.449	6.1	19.3
2 11	7 19.18	+23 27.1	2.602	3.469	9.0	19.5
2 21	7 14.66	+23 33.2	2.714	3.489	11.5	19.7

31521 1999 CT_{106} 1 14.2 279°.30 7°.5/16.8 18

12 13	8 3.86	+ 2 1.4	1.857	2.644	15.4	18.3
12 23	7 58.65	+ 1 19.1	1.770	2.631	12.6	18.1
1 2	7 51.23	+ 0 55.0	1.704	2.618	9.8	17.9
1 12	7 42.34	+ 0 51.9	1.664	2.606	7.8	17.7
1 22	7 32.96	+ 1 9.9	1.651	2.593	7.9	17.7
2 1	7 24.23	+ 1 47.1	1.664	2.580	10.1	17.8
2 11	7 17.19	+ 2 38.7	1.703	2.567	13.1	18.0
2 21	7 12.57	+ 3 39.1	1.763	2.554	16.0	18.1

56734 2000 NM_{17} 1 14.2 169°.54 4°.2/12.4 18

12 13	8 8.36	+36 17.2	2.772	3.592	9.9	19.1
12 23	8 1.35	+36 41.4	2.701	3.594	7.6	19.0
1 2	7 52.48	+36 58.6	2.656	3.596	5.3	18.8
1 12	7 42.53	+37 4.7	2.641	3.598	4.2	18.8
1 22	7 32.43	+36 57.6	2.656	3.600	5.2	18.8
2 1	7 23.13	+36 36.9	2.701	3.601	7.4	19.0
2 11	7 15.47	+36 4.3	2.774	3.603	9.7	19.1
2 21	7 9.98	+35 22.8	2.869	3.603	11.8	19.3

499486 2010 KB_{89} 1 14.2 307°.43 6°.2/17.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 1.15	+ 1 58.8	2.094	2.877	13.9	21.3
12 23	7 56.47	+ 1 53.4	2.006	2.868	11.4	21.1
1 2	7 49.89	+ 2 6.7	1.942	2.859	8.6	20.9
1 12	7 42.08	+ 2 39.5	1.903	2.849	6.6	20.8
1 22	7 33.89	+ 3 30.4	1.892	2.840	6.5	20.7
2 1	7 26.27	+ 4 35.8	1.909	2.831	8.5	20.8
2 11	7 20.10	+ 5 50.6	1.952	2.823	11.4	21.0
2 21	7 16.03	+ 7 9.3	2.019	2.814	14.2	21.2

179970 2002 XG_{34} 1 14.2 24°.45 1°.7/13.7 18

12 13	8 6.23	+23 40.2	1.450	2.304	15.4	19.6
12 23	8 0.83	+24 11.0	1.389	2.309	11.2	19.3
1 2	7 52.59	+24 45.4	1.351	2.315	6.4	19.1
1 12	7 42.58	+25 17.8	1.339	2.321	1.9	18.8
1 22	7 32.27	+25 43.3	1.355	2.328	4.7	19.0
2 1	7 23.17	+25 58.8	1.397	2.336	9.5	19.3
2 11	7 16.57	+26 3.8	1.463	2.344	13.8	19.6
2 21	7 13.14	+25 59.9	1.549	2.352	17.4	19.8

204270 2004 FJ_{92} 1 14.2 260°.93 0°.5/14.5 18

12 13	8 2.82	+18 45.6	2.473	3.300	10.7	20.6
12 23	7 57.48	+19 0.3	2.383	3.290	7.8	20.4
1 2	7 50.39	+19 20.1	2.320	3.279	4.5	20.2
1 12	7 42.17	+19 43.0	2.286	3.268	1.0	19.9
1 22	7 33.62	+20 6.4	2.282	3.257	2.8	20.0
2 1	7 25.62	+20 28.2	2.308	3.246	6.3	20.3
2 11	7 18.98	+20 46.8	2.362	3.234	9.6	20.4
2 21	7 14.28	+21 1.6	2.440	3.223	12.4	20.6

135652 2002 LT_{11} 1 14.2 231°.34 1°.6/14.9 18

12 13	8 6.84	+15 14.9	1.982	2.804	13.2	20.8
12 23	8 0.78	+15 33.6	1.891	2.793	9.8	20.6
1 2	7 52.44	+16 2.3	1.826	2.781	5.9	20.3
1 12	7 42.58	+16 38.5	1.789	2.769	2.1	20.0
1 22	7 32.20	+17 18.9	1.781	2.755	3.6	20.1
2 1	7 22.48	+17 59.8	1.804	2.742	7.7	20.3
2 11	7 14.49	+18 38.3	1.853	2.727	11.7	20.5
2 21	7 8.98	+19 12.6	1.925	2.713	15.0	20.7

190541 2000 RO_{77} 1 14.2 75°.84 21°.0/22.4 18

12 13	8 15.04	−17 17.0	1.127	1.838	27.4	18.8
12 23	8 7.32	−20 22.0	1.103	1.865	25.0	18.7
1 2	7 56.25	−22 37.9	1.093	1.893	23.0	18.7
1 12	7 43.25	−23 53.2	1.100	1.920	21.5	18.7
1 22	7 30.15	−24 5.0	1.124	1.947	21.0	18.7
2 1	7 18.83	−23 18.4	1.165	1.973	21.4	18.9
2 11	7 10.70	−21 47.1	1.221	1.999	22.4	19.0
2 21	7 6.41	−19 47.1	1.293	2.024	23.7	19.2

57827 2001 WM_{91} 1 14.2 294°.15 4°.2/12.6 18

12 13	8 7.59	+30 21.5	1.790	2.634	13.4	18.9
12 23	8 1.71	+31 10.0	1.712	2.625	10.0	18.7
1 2	7 53.10	+31 56.5	1.660	2.615	6.4	18.5
1 12	7 42.70	+32 34.1	1.635	2.606	4.2	18.3
1 22	7 31.80	+32 57.7	1.637	2.597	6.0	18.4
2 1	7 21.84	+33 4.6	1.668	2.589	9.7	18.6
2 11	7 14.11	+32 55.8	1.723	2.580	13.3	18.8
2 21	7 9.40	+32 34.4	1.798	2.571	16.5	19.0

106135 2000 TE_{42} 1 14.2 65°.24 6°.7/17.9 18

12 13	8 3.25	+ 0 37.9	1.825	2.608	15.7	19.6
12 23	7 58.04	+ 0 48.3	1.758	2.619	12.8	19.5
1 2	7 50.77	+ 1 21.7	1.714	2.630	9.6	19.3
1 12	7 42.24	+ 2 18.1	1.694	2.641	7.2	19.2
1 22	7 33.45	+ 3 34.1	1.702	2.652	6.9	19.2
2 1	7 25.48	+ 5 4.1	1.738	2.663	9.0	19.3
2 11	7 19.26	+ 6 40.9	1.801	2.675	12.0	19.5
2 21	7 15.39	+ 8 17.9	1.887	2.686	14.8	19.8

227552 2005 YK_{167} 1 14.2 35°.35 1°.5/14.8 18

12 13	8 4.95	+16 57.1	1.757	2.593	14.0	21.0
12 23	7 59.41	+16 55.9	1.689	2.598	10.3	20.8
1 2	7 51.60	+17 2.6	1.646	2.604	6.1	20.5
1 12	7 42.40	+17 15.3	1.629	2.610	2.0	20.3
1 22	7 32.94	+17 31.1	1.641	2.615	3.7	20.4
2 1	7 24.42	+17 47.7	1.680	2.622	7.9	20.7
2 11	7 17.87	+18 3.1	1.746	2.628	11.8	20.9
2 21	7 13.90	+18 16.1	1.834	2.635	15.1	21.2

64834 2001 XS_{251} 1 14.2 210°.68 3°.2/12.5 18

12 13	8 7.00	+27 6.7	2.066	2.904	12.1	19.8
12 23	8 0.98	+28 21.3	1.990	2.900	8.9	19.6
1 2	7 52.58	+29 37.9	1.939	2.897	5.4	19.4
1 12	7 42.60	+30 49.8	1.918	2.893	3.2	19.2
1 22	7 32.13	+31 50.9	1.928	2.889	5.1	19.4
2 1	7 22.39	+32 37.4	1.966	2.885	8.6	19.6
2 11	7 14.49	+33 8.3	2.030	2.880	11.9	19.8
2 21	7 9.19	+33 25.2	2.117	2.875	14.8	19.9

112032 2002 HJ_8 1 14.2 219°.15 0°.2/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 8.50	+20 56.8	1.997	2.828	12.8	20.9
12 23	8 1.97	+21 13.8	1.911	2.820	9.3	20.7
1 2	7 53.10	+21 35.3	1.851	2.811	5.3	20.4
1 12	7 42.70	+21 57.8	1.819	2.802	1.0	20.1
1 22	7 31.86	+22 18.1	1.817	2.792	3.5	20.3
2 1	7 21.78	+22 33.6	1.845	2.781	7.8	20.5
2 11	7 13.56	+22 43.3	1.900	2.770	11.6	20.7
2 21	7 7.91	+22 47.5	1.977	2.758	14.9	20.9

167038 2003 QW_{49} 1 14.2 137°.99 0°.8/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.52	+21 59.5	1.953	2.785	13.0	21.3
12 23	8 2.56	+22 30.5	1.889	2.798	9.4	21.1
1 2	7 53.32	+23 5.1	1.849	2.810	5.3	20.9
1 12	7 42.72	+23 39.0	1.839	2.821	1.2	20.6
1 22	7 31.89	+24 8.2	1.859	2.832	3.6	20.9
2 1	7 22.03	+24 30.3	1.908	2.842	7.7	21.1
2 11	7 14.16	+24 44.4	1.984	2.851	11.4	21.4
2 21	7 8.89	+24 51.3	2.083	2.860	14.4	21.6

336000 2007 TC_{357} 1 14.2 2°.14 4°.5/16.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.82	+ 7 54.2	2.119	2.925	13.0	20.6
12 23	7 56.86	+ 7 37.5	2.042	2.925	10.2	20.4
1 2	7 50.06	+ 7 34.0	1.988	2.925	7.1	20.2
1 12	7 42.12	+ 7 43.9	1.962	2.925	4.8	20.1
1 22	7 33.92	+ 8 5.7	1.964	2.925	5.1	20.1
2 1	7 26.37	+ 8 37.1	1.995	2.926	7.6	20.3
2 11	7 20.33	+ 9 14.7	2.052	2.927	10.7	20.5
2 21	7 16.35	+ 9 55.0	2.132	2.928	13.5	20.7

344553 2002 VS_{147} 1 14.2 92°.80 1°.3/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.46	+21 29.4	1.413	2.258	16.3	20.9
12 23	8 4.52	+22 23.6	1.363	2.279	11.7	20.7
1 2	7 54.63	+23 24.0	1.337	2.299	6.6	20.4
1 12	7 42.98	+24 23.5	1.337	2.319	1.6	20.2
1 22	7 31.13	+25 15.2	1.365	2.338	4.7	20.4
2 1	7 20.71	+25 54.9	1.421	2.357	9.6	20.8
2 11	7 13.00	+26 21.7	1.501	2.376	13.9	21.1
2 21	7 8.64	+26 36.8	1.602	2.394	17.4	21.3

55221 Nancynoblitt 1 14.2 8°.01 13°.4/21.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.34	−10 54.5	1.556	2.298	19.7	17.0
12 23	7 54.84	−12 0.0	1.496	2.301	17.5	16.8
1 2	7 49.10	−12 32.5	1.454	2.306	15.5	16.7
1 12	7 41.96	−12 27.1	1.432	2.312	13.9	16.6
1 22	7 34.52	−11 43.0	1.431	2.319	13.4	16.6
2 1	7 27.93	−10 23.9	1.452	2.328	14.1	16.6
2 11	7 23.25	− 8 38.6	1.495	2.338	15.7	16.8
2 21	7 21.11	− 6 37.6	1.558	2.350	17.8	16.9

239427 2007 TM_{146} 1 14.2 25°.42 4°.6/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.26	+33 19.6	2.124	2.961	11.9	20.0
12 23	8 0.34	+34 8.4	2.057	2.963	8.9	19.8
1 2	7 52.14	+34 52.3	2.017	2.966	6.1	19.7
1 12	7 42.53	+35 25.5	2.004	2.968	4.6	19.6
1 22	7 32.63	+35 44.0	2.020	2.971	5.9	19.7
2 1	7 23.63	+35 46.3	2.064	2.974	8.8	19.8
2 11	7 16.58	+35 33.7	2.134	2.977	11.7	20.0
2 21	7 12.11	+35 9.2	2.225	2.980	14.2	20.2

90834 1995 UR_{46} 1 14.2 57°.91 9°.7/18.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.20	− 4 45.1	1.849	2.604	16.6	19.3
12 23	7 57.97	− 5 34.9	1.787	2.615	14.1	19.2
1 2	7 50.72	− 6 0.3	1.746	2.626	11.7	19.0
1 12	7 42.26	− 5 58.5	1.729	2.638	10.1	18.9
1 22	7 33.57	− 5 29.6	1.737	2.650	9.8	19.0
2 1	7 25.71	− 4 36.8	1.770	2.662	11.0	19.1
2 11	7 19.58	− 3 26.4	1.827	2.675	13.1	19.2
2 21	7 15.77	− 2 5.6	1.906	2.687	15.4	19.4

29489 1997 WQ 1 14.2 150°.06 4°.9/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.23	+34 13.6	2.255	3.083	11.6	18.3
12 23	8 3.14	+35 19.6	2.193	3.092	8.8	18.2
1 2	7 53.71	+36 20.1	2.156	3.100	6.1	18.0
1 12	7 42.84	+37 8.7	2.149	3.108	4.9	17.9
1 22	7 31.64	+37 40.9	2.172	3.115	6.2	18.0
2 1	7 21.36	+37 54.8	2.223	3.122	8.8	18.2
2 11	7 13.05	+37 52.0	2.301	3.128	11.5	18.4
2 21	7 7.37	+37 35.8	2.400	3.133	13.9	18.6

144575 2004 FR_{25} 1 14.2 296°.69 1°.8/15.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.54	+15 19.3	2.237	3.062	11.8	19.7
12 23	7 57.42	+15 18.9	2.148	3.051	8.8	19.5
1 2	7 50.43	+15 26.3	2.084	3.039	5.4	19.2
1 12	7 42.23	+15 40.0	2.049	3.027	2.2	19.0
1 22	7 33.67	+15 58.0	2.043	3.016	3.3	19.1
2 1	7 25.71	+16 18.3	2.066	3.005	6.9	19.3
2 11	7 19.21	+16 38.9	2.116	2.994	10.3	19.5
2 21	7 14.78	+16 58.0	2.190	2.983	13.3	19.6

468465 2004 FQ_{153} 1 14.2 342°.04 5°.6/17.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 0.61	+ 3 2.9	1.962	2.755	14.4	20.9
12 23	7 56.19	+ 3 19.3	1.878	2.749	11.6	20.7
1 2	7 49.80	+ 3 56.2	1.817	2.743	8.5	20.5
1 12	7 42.12	+ 4 53.4	1.783	2.738	6.1	20.3
1 22	7 34.05	+ 6 7.8	1.776	2.733	6.0	20.3
2 1	7 26.61	+ 7 34.7	1.797	2.728	8.3	20.4
2 11	7 20.71	+ 9 7.5	1.846	2.725	11.5	20.6
2 21	7 17.01	+10 40.3	1.917	2.721	14.5	20.8

354399 2003 UZ_{30} 1 14.2 203°.74 0°.5/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.81	+21 34.2	1.965	2.797	12.9	21.9
12 23	8 2.20	+21 53.7	1.884	2.793	9.4	21.6
1 2	7 53.24	+22 17.1	1.828	2.789	5.4	21.4
1 12	7 42.76	+22 40.9	1.801	2.783	1.0	21.1
1 22	7 31.88	+23 1.5	1.804	2.778	3.6	21.2
2 1	7 21.83	+23 16.5	1.836	2.771	7.9	21.5
2 11	7 13.69	+23 25.1	1.895	2.765	11.7	21.7
2 21	7 8.16	+23 27.6	1.976	2.757	14.9	21.9

246715 2009 BN_{16} 1 14.2 226°.20 2°.5/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.26	+13 13.8	1.771	2.595	14.4	21.1
12 23	8 0.52	+13 30.0	1.689	2.590	10.8	20.9
1 2	7 52.36	+13 59.1	1.631	2.584	6.7	20.6
1 12	7 42.61	+14 38.7	1.600	2.578	2.9	20.4
1 22	7 32.38	+15 25.3	1.598	2.572	4.1	20.4
2 1	7 22.93	+16 14.6	1.625	2.565	8.3	20.7
2 11	7 15.40	+17 2.7	1.678	2.558	12.4	20.9
2 21	7 10.52	+17 46.9	1.753	2.551	15.9	21.1

436399 2010 VX_{206} 1 14.2 125°.13 0°.9/14.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.63	+16 51.0	3.305	4.123	8.5	21.6
12 23	7 54.74	+16 58.9	3.229	4.129	6.2	21.4
1 2	7 48.66	+17 11.3	3.180	4.135	3.7	21.2
1 12	7 41.88	+17 26.9	3.160	4.141	1.2	21.1
1 22	7 34.96	+17 44.0	3.172	4.146	2.2	21.1
2 1	7 28.48	+18 1.4	3.215	4.152	4.8	21.3
2 11	7 22.99	+18 17.8	3.287	4.157	7.2	21.5
2 21	7 18.89	+18 32.3	3.384	4.162	9.3	21.7

203074 2000 QT_{43} 1 14.2 82°.79 0°.8/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.05	+18 5.8	1.504	2.343	15.8	20.5
12 23	8 3.23	+18 23.1	1.454	2.365	11.5	20.3
1 2	7 53.79	+18 48.7	1.427	2.387	6.6	20.1
1 12	7 42.84	+19 18.5	1.427	2.409	1.6	19.8
1 22	7 31.80	+19 48.3	1.455	2.431	3.9	20.0
2 1	7 22.09	+20 14.7	1.512	2.452	8.7	20.3
2 11	7 14.83	+20 35.9	1.593	2.473	12.9	20.6
2 21	7 10.60	+20 51.4	1.696	2.494	16.3	20.9

369684 2012 BJ_1 1 14.2 41°.30 11°.8/21.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.15	− 9 24.2	0.935	1.722	26.9	19.6
12 23	8 1.60	− 8 19.1	0.879	1.733	22.8	19.4
1 2	7 53.41	− 6 14.0	0.837	1.744	18.1	19.2
1 12	7 42.84	− 3 7.2	0.816	1.756	13.7	19.0
1 22	7 31.70	+ 0 49.2	0.817	1.769	11.8	18.9
2 1	7 22.06	+ 5 11.4	0.844	1.783	13.9	19.1
2 11	7 15.64	+ 9 31.7	0.895	1.797	18.1	19.4
2 21	7 13.30	+13 28.6	0.967	1.812	22.4	19.7

365080 2009 BO_{46} 1 14.2 331°.56 1°.0/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.62	+18 42.0	1.325	2.179	16.6	20.9
12 23	8 0.73	+18 43.1	1.250	2.169	12.3	20.6
1 2	7 52.75	+18 53.1	1.197	2.160	7.2	20.3
1 12	7 42.71	+19 8.9	1.169	2.151	1.8	19.9
1 22	7 32.09	+19 26.6	1.167	2.143	4.5	20.1
2 1	7 22.56	+19 43.1	1.190	2.136	10.0	20.4
2 11	7 15.59	+19 56.1	1.237	2.129	14.9	20.6
2 21	7 12.03	+20 4.6	1.303	2.123	19.1	20.9

323898 2005 TU_1 1 14.2 171°.18 4°.5/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.73	+ 7 49.7	2.229	3.025	12.8	21.2
12 23	7 59.57	+ 7 23.4	2.151	3.028	10.0	21.0
1 2	7 51.58	+ 7 9.1	2.097	3.030	7.0	20.8
1 12	7 42.45	+ 7 7.2	2.072	3.032	4.8	20.7
1 22	7 33.06	+ 7 16.9	2.076	3.034	5.1	20.7
2 1	7 24.36	+ 7 36.4	2.109	3.035	7.6	20.9
2 11	7 17.18	+ 8 2.9	2.170	3.036	10.6	21.1
2 21	7 12.09	+ 8 33.3	2.254	3.036	13.3	21.2

100497 1996 XB 1 14.3 104°.87 1°.0/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.60	+23 30.1	2.392	3.225	10.9	20.3
12 23	7 58.72	+23 51.4	2.325	3.235	7.8	20.1
1 2	7 51.06	+24 14.4	2.284	3.244	4.4	19.9
1 12	7 42.35	+24 35.9	2.272	3.254	1.2	19.7
1 22	7 33.46	+24 53.2	2.291	3.263	3.1	19.9
2 1	7 25.31	+25 4.8	2.339	3.272	6.5	20.1
2 11	7 18.70	+25 10.1	2.415	3.281	9.6	20.3
2 21	7 14.15	+25 9.5	2.515	3.290	12.2	20.5

433087 2012 TW_{81} 1 14.3 96°.74 1°.1/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 4.42	+23 53.7	2.404	3.237	10.8	21.6
12 23	7 58.59	+24 13.9	2.337	3.247	7.8	21.5
1 2	7 50.99	+24 35.4	2.296	3.256	4.4	21.3
1 12	7 42.34	+24 55.1	2.284	3.266	1.2	21.0
1 22	7 33.52	+25 10.5	2.303	3.275	3.2	21.2
2 1	7 25.44	+25 20.0	2.351	3.284	6.5	21.4
2 11	7 18.89	+25 23.1	2.427	3.293	9.6	21.6
2 21	7 14.40	+25 20.5	2.527	3.302	12.2	21.8

76410 2000 FC_{15} 1 14.3 224°.72 0°.6/14.5 18

12 13	8 5.93	+17 39.4	1.867	2.700	13.4	19.2
12 23	8 0.21	+18 8.1	1.787	2.696	9.9	19.0
1 2	7 52.16	+18 45.5	1.732	2.692	5.7	18.7
1 12	7 42.59	+19 28.2	1.705	2.687	1.3	18.4
1 22	7 32.59	+20 11.9	1.707	2.683	3.5	18.5
2 1	7 23.37	+20 52.9	1.738	2.678	7.9	18.8
2 11	7 16.02	+21 28.4	1.796	2.673	11.9	19.0
2 21	7 11.23	+21 57.4	1.876	2.668	15.2	19.2

33439 1999 FF_{18} 1 14.3 209°.98 5°.1/16.8 18

12 13	8 3.81	+ 3 46.4	2.436	3.214	12.4	19.2
12 23	7 58.16	+ 3 40.6	2.346	3.207	9.9	19.0
1 2	7 50.80	+ 3 49.7	2.280	3.200	7.4	18.9
1 12	7 42.33	+ 4 13.9	2.243	3.193	5.4	18.7
1 22	7 33.53	+ 4 52.1	2.234	3.185	5.4	18.7
2 1	7 25.24	+ 5 41.3	2.255	3.176	7.5	18.8
2 11	7 18.27	+ 6 38.0	2.304	3.167	10.2	19.0
2 21	7 13.18	+ 7 38.0	2.378	3.158	12.7	19.1

226888 2004 TZ_{133} 1 14.3 57°.41 1°.1/13.8 18

12 13	8 5.54	+22 50.9	1.865	2.707	13.1	20.1
12 23	7 59.84	+23 23.0	1.801	2.715	9.4	19.9
1 2	7 51.87	+23 58.5	1.761	2.723	5.3	19.6
1 12	7 42.53	+24 33.1	1.749	2.731	1.4	19.4
1 22	7 32.92	+25 2.7	1.766	2.739	3.8	19.6
2 1	7 24.25	+25 24.6	1.812	2.748	7.9	19.8
2 11	7 17.54	+25 38.0	1.884	2.756	11.6	20.1
2 21	7 13.40	+25 43.4	1.977	2.765	14.7	20.3

332428 2007 TJ_{74} 1 14.3 115°.12 5°.9/16.9 18

12 13	8 3.11	+ 1 17.6	2.637	3.400	11.9	20.3
12 23	7 57.40	+ 0 36.4	2.569	3.414	9.8	20.2
1 2	7 50.23	+ 0 9.2	2.525	3.427	7.6	20.0
1 12	7 42.21	− 0 2.8	2.508	3.439	6.2	20.0
1 22	7 34.04	+ 0 0.2	2.520	3.452	6.2	20.0
2 1	7 26.47	+ 0 16.8	2.561	3.464	7.6	20.1
2 11	7 20.16	+ 0 44.2	2.629	3.476	9.6	20.2
2 21	7 15.55	+ 1 18.7	2.721	3.487	11.6	20.4

65948 1998 FT_{106} 1 14.3 345°.48 2°.3/13.7 18

12 13	8 8.91	+26 20.0	1.348	2.204	16.2	18.6
12 23	8 3.11	+26 27.9	1.279	2.199	11.9	18.4
1 2	7 54.08	+26 35.3	1.232	2.195	7.0	18.1
1 12	7 42.97	+26 36.7	1.211	2.192	2.5	17.8
1 22	7 31.43	+26 28.3	1.216	2.189	5.2	18.0
2 1	7 21.23	+26 8.8	1.247	2.187	10.3	18.2
2 11	7 13.84	+25 40.1	1.302	2.185	15.0	18.5
2 21	7 10.01	+25 5.1	1.376	2.184	18.9	18.8

252243 2001 QL_{56} 1 14.3 76°.24 3°.2/13.2 18

12 13	8 10.65	+28 46.4	1.707	2.548	14.1	20.1
12 23	8 3.61	+29 17.5	1.656	2.568	10.2	19.9
1 2	7 53.98	+29 45.6	1.631	2.589	6.2	19.7
1 12	7 42.91	+30 5.0	1.633	2.609	3.3	19.6
1 22	7 31.77	+30 12.1	1.663	2.629	5.2	19.7
2 1	7 21.96	+30 5.9	1.722	2.649	8.9	20.0
2 11	7 14.56	+29 48.2	1.805	2.668	12.5	20.3
2 21	7 10.14	+29 22.1	1.911	2.688	15.5	20.5

81511 2000 GL_{172} 1 14.3 17°.56 0°.6/14.4 18

12 13	8 6.58	+20 55.6	1.244	2.103	17.1	18.2
12 23	8 1.29	+20 36.4	1.187	2.109	12.5	17.9
1 2	7 52.94	+20 22.1	1.152	2.116	7.2	17.7
1 12	7 42.75	+20 10.3	1.141	2.124	1.5	17.3
1 22	7 32.33	+19 58.6	1.156	2.133	4.4	17.6
2 1	7 23.35	+19 45.9	1.197	2.143	9.8	17.9
2 11	7 17.12	+19 31.8	1.260	2.154	14.6	18.2
2 21	7 14.29	+19 16.5	1.344	2.166	18.5	18.5

236607 2006 JP_{35} 1 14.3 87°.75 1°.2/14.8 18

12 13	8 3.83	+16 15.8	2.206	3.031	11.9	20.6
12 23	7 58.23	+16 35.7	2.140	3.044	8.7	20.5
1 2	7 50.82	+17 3.1	2.100	3.057	5.1	20.3
1 12	7 42.34	+17 35.5	2.089	3.070	1.6	20.0
1 22	7 33.67	+18 10.0	2.107	3.082	3.0	20.2
2 1	7 25.74	+18 43.7	2.156	3.095	6.6	20.4
2 11	7 19.38	+19 14.6	2.232	3.107	9.9	20.6
2 21	7 15.11	+19 41.2	2.331	3.119	12.7	20.9

423264 2004 TK_{334} 1 14.3 129°.57 10°.2/20.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 3.14	−11 54.5	2.264	2.958	15.5	21.6
12 23	7 57.72	−12 23.2	2.194	2.966	13.7	21.5
1 2	7 50.54	−12 26.4	2.143	2.975	11.9	21.3
1 12	7 42.29	−12 1.6	2.116	2.982	10.6	21.3
1 22	7 33.81	−11 8.9	2.113	2.990	10.2	21.3
2 1	7 25.99	− 9 51.5	2.136	2.997	10.9	21.3
2 11	7 19.62	− 8 15.6	2.185	3.004	12.3	21.4
2 21	7 15.24	− 6 28.5	2.256	3.011	14.1	21.6

454636 2014 QV_{194} 1 14.3 43°.01 3°.0/15.2 18

12 13	8 6.45	+14 13.8	1.512	2.348	15.9	20.9
12 23	8 0.76	+13 57.1	1.449	2.355	11.9	20.7
1 2	7 52.50	+13 51.7	1.408	2.362	7.4	20.4
1 12	7 42.67	+13 56.5	1.393	2.370	3.5	20.2
1 22	7 32.58	+14 9.3	1.405	2.378	4.7	20.3
2 1	7 23.58	+14 27.3	1.444	2.386	9.0	20.6
2 11	7 16.85	+14 47.6	1.509	2.394	13.1	20.9
2 21	7 13.02	+15 7.7	1.594	2.403	16.7	21.1

41751 2000 VT_{29} 1 14.3 37°.90 0°.6/14.0 18

12 13	8 6.44	+19 37.8	1.379	2.230	16.2	18.1
12 23	8 1.13	+20 28.1	1.318	2.237	11.8	17.9
1 2	7 52.88	+21 28.2	1.280	2.243	6.7	17.6
1 12	7 42.76	+22 31.9	1.267	2.250	1.3	17.3
1 22	7 32.24	+23 32.1	1.282	2.257	4.4	17.5
2 1	7 22.90	+24 23.3	1.323	2.265	9.6	17.8
2 11	7 16.09	+25 2.7	1.389	2.273	14.2	18.1
2 21	7 12.55	+25 30.2	1.474	2.281	17.9	18.4

222739 2002 AD_{196} 1 14.3 132°.92 2°.1/13.5 18

12 13	8 7.68	+26 23.4	1.947	2.786	12.7	20.6
12 23	8 1.39	+26 44.9	1.876	2.788	9.2	20.4
1 2	7 52.77	+27 6.1	1.830	2.790	5.4	20.2
1 12	7 42.73	+27 22.6	1.812	2.792	2.2	20.0
1 22	7 32.40	+27 31.2	1.824	2.794	4.2	20.1
2 1	7 23.03	+27 30.2	1.864	2.796	8.1	20.4
2 11	7 15.65	+27 20.1	1.931	2.797	11.7	20.6
2 21	7 10.90	+27 2.7	2.020	2.799	14.7	20.8

149978 2005 UP_{9} 1 14.3 49°.23 1°.4/13.7 18

12 13	8 6.41	+23 17.9	1.695	2.540	14.0	20.2
12 23	8 0.67	+23 50.8	1.631	2.547	10.1	19.9
1 2	7 52.43	+24 27.2	1.592	2.555	5.7	19.7
1 12	7 42.67	+25 2.1	1.580	2.562	1.6	19.4
1 22	7 32.62	+25 31.0	1.597	2.570	4.2	19.6
2 1	7 23.61	+25 51.0	1.641	2.578	8.5	19.9
2 11	7 16.77	+26 1.5	1.711	2.586	12.4	20.2
2 21	7 12.74	+26 3.4	1.802	2.594	15.7	20.4

377550 2005 JN_{35} 1 14.3 302°.24 3°.5/15.8 17

12 13	8 2.01	+10 27.2	2.106	2.921	12.8	21.0
12 23	7 57.18	+10 24.5	2.014	2.906	9.8	20.8
1 2	7 50.39	+10 34.0	1.946	2.891	6.6	20.5
1 12	7 42.30	+10 55.1	1.905	2.876	3.8	20.3
1 22	7 33.79	+11 25.9	1.894	2.862	4.4	20.4
2 1	7 25.85	+12 3.8	1.910	2.847	7.5	20.5
2 11	7 19.39	+12 45.3	1.954	2.833	10.9	20.7
2 21	7 15.07	+13 27.2	2.021	2.819	14.0	20.9

173392 2000 CU_{68} 1 14.3 265°.96 1°.0/14.7 18

12 13	8 5.99	+17 4.1	1.823	2.655	13.7	20.2
12 23	8 0.41	+17 23.9	1.733	2.641	10.1	20.0
1 2	7 52.39	+17 53.1	1.668	2.627	6.0	19.7
1 12	7 42.70	+18 28.6	1.631	2.612	1.6	19.4
1 22	7 32.45	+19 6.7	1.622	2.597	3.7	19.5
2 1	7 22.91	+19 43.8	1.642	2.582	8.2	19.7
2 11	7 15.23	+20 16.9	1.688	2.567	12.4	19.9
2 21	7 10.22	+20 44.7	1.756	2.552	16.0	20.1

318102 2004 HM_{43} 1 14.3 253°.94 6°.5/11.5 17

12 13	8 12.81	+38 51.3	2.105	2.928	12.5	21.3
12 23	8 5.52	+39 46.1	2.020	2.910	9.9	21.1
1 2	7 55.36	+40 32.3	1.959	2.891	7.5	20.9
1 12	7 43.27	+41 2.1	1.926	2.873	6.5	20.8
1 22	7 30.57	+41 10.3	1.922	2.853	7.8	20.8
2 1	7 18.81	+40 55.4	1.945	2.833	10.4	21.0
2 11	7 9.34	+40 20.1	1.993	2.813	13.3	21.1
2 21	7 2.98	+39 29.6	2.062	2.792	16.0	21.3

52378 1993 FC_{81} 1 14.3 333°.57 3°.0/15.3 18

12 13	8 5.58	+13 9.7	1.306	2.150	17.4	19.7
12 23	8 0.68	+13 23.0	1.234	2.145	13.1	19.4
1 2	7 52.74	+13 53.3	1.184	2.140	8.2	19.1
1 12	7 42.78	+14 38.0	1.158	2.136	3.6	18.8
1 22	7 32.24	+15 32.3	1.158	2.132	4.9	18.9
2 1	7 22.75	+16 30.1	1.184	2.129	10.0	19.2
2 11	7 15.77	+17 25.9	1.233	2.126	14.9	19.4
2 21	7 12.15	+18 16.1	1.303	2.124	19.1	19.7

217993 2001 WE_{84} 1 14.3 105°.98 2°.7/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 5.82	+13 45.8	1.895	2.718	13.7	20.7
12 23	7 59.92	+13 37.6	1.824	2.724	10.2	20.5
1 2	7 51.90	+13 39.3	1.779	2.731	6.4	20.3
1 12	7 42.58	+13 49.6	1.760	2.737	3.0	20.1
1 22	7 33.02	+14 6.4	1.771	2.743	4.0	20.2
2 1	7 24.31	+14 27.3	1.811	2.749	7.7	20.4
2 11	7 17.42	+14 49.8	1.876	2.755	11.3	20.7
2 21	7 12.96	+15 11.7	1.965	2.761	14.5	20.9

198995 2005 WM_{25} 1 14.3 123°.88 0°.5/14.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.17	+21 34.8	1.724	2.556	14.4	21.7
12 23	8 4.66	+21 56.8	1.665	2.574	10.4	21.5
1 2	7 54.61	+22 22.7	1.631	2.591	5.9	21.3
1 12	7 43.08	+22 48.0	1.625	2.608	1.2	21.0
1 22	7 31.40	+23 9.0	1.649	2.624	3.8	21.2
2 1	7 20.91	+23 23.2	1.703	2.638	8.3	21.5
2 11	7 12.73	+23 30.3	1.782	2.653	12.3	21.8
2 21	7 7.48	+23 31.1	1.883	2.666	15.5	22.1

31479 Botello 1 14.3 231°.41 4°.1/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.52	+29 57.3	1.615	2.459	14.6	18.5
12 23	8 4.80	+30 37.1	1.542	2.453	10.9	18.3
1 2	7 55.01	+31 14.3	1.491	2.448	6.8	18.0
1 12	7 43.21	+31 41.6	1.468	2.442	4.1	17.8
1 22	7 30.92	+31 53.6	1.473	2.436	6.1	18.0
2 1	7 19.78	+31 48.4	1.505	2.430	10.2	18.2
2 11	7 11.23	+31 27.8	1.562	2.424	14.2	18.4
2 21	7 6.06	+30 55.8	1.639	2.417	17.6	18.6

309409 2007 TG_{289} 1 14.3 102°.69 3°.9/12.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.15	+28 52.8	1.769	2.606	13.8	20.8
12 23	8 4.76	+30 1.9	1.720	2.629	10.1	20.6
1 2	7 54.72	+31 8.8	1.696	2.651	6.3	20.4
1 12	7 43.13	+32 5.9	1.700	2.673	3.9	20.3
1 22	7 31.35	+32 47.5	1.734	2.694	5.8	20.5
2 1	7 20.81	+33 11.4	1.797	2.715	9.3	20.8
2 11	7 12.68	+33 18.8	1.885	2.735	12.7	21.0
2 21	7 7.58	+33 12.9	1.994	2.754	15.5	21.2

363899 2005 SS_{158} 1 14.3 168°.11 4°.1/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.01	+ 7 51.4	2.517	3.306	11.7	21.7
12 23	7 59.62	+ 7 28.9	2.438	3.312	9.1	21.5
1 2	7 51.58	+ 7 17.1	2.385	3.316	6.4	21.4
1 12	7 42.54	+ 7 16.3	2.360	3.320	4.3	21.3
1 22	7 33.27	+ 7 25.6	2.366	3.324	4.6	21.3
2 1	7 24.63	+ 7 43.4	2.402	3.326	6.9	21.4
2 11	7 17.35	+ 8 7.2	2.466	3.328	9.6	21.6
2 21	7 11.96	+ 8 34.4	2.555	3.329	12.1	21.8

270303 2001 WB_{2} 1 14.3 120°.61 10°.5/19.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.85	− 9 15.1	2.023	2.733	16.7	21.2
12 23	8 1.86	−10 10.9	1.967	2.756	14.5	21.1
1 2	7 52.89	−10 41.0	1.932	2.779	12.4	21.0
1 12	7 42.78	−10 42.1	1.921	2.800	10.9	20.9
1 22	7 32.52	−10 14.1	1.936	2.821	10.6	21.0
2 1	7 23.16	− 9 20.5	1.977	2.840	11.5	21.1
2 11	7 15.58	− 8 7.5	2.042	2.859	13.2	21.2
2 21	7 10.32	− 6 42.6	2.129	2.876	15.0	21.4

257310 2009 HU_{85} 1 14.3 159°.49 5°.5/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.48	+ 2 52.0	2.409	3.180	12.7	22.1
12 23	7 59.29	+ 2 35.9	2.333	3.188	10.2	21.9
1 2	7 51.41	+ 2 35.0	2.282	3.196	7.7	21.8
1 12	7 42.51	+ 2 49.6	2.258	3.203	5.8	21.7
1 22	7 33.38	+ 3 18.7	2.263	3.209	5.8	21.7
2 1	7 24.87	+ 3 59.7	2.298	3.214	7.7	21.8
2 11	7 17.77	+ 4 48.9	2.361	3.218	10.2	22.0
2 21	7 12.59	+ 5 42.3	2.448	3.222	12.6	22.1

245165 2004 TA_{97} 1 14.3 171°.36 3°.0/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.99	+12 35.0	1.769	2.589	14.6	21.1
12 23	8 1.69	+12 34.5	1.694	2.592	11.0	20.9
1 2	7 53.02	+12 46.2	1.644	2.594	7.0	20.7
1 12	7 42.83	+13 8.5	1.620	2.596	3.5	20.5
1 22	7 32.29	+13 38.7	1.626	2.597	4.4	20.5
2 1	7 22.64	+14 13.3	1.660	2.598	8.3	20.8
2 11	7 14.96	+14 49.2	1.721	2.598	12.2	21.0
2 21	7 9.95	+15 23.6	1.803	2.598	15.6	21.2

149980 2005 UU_{19} 1 14.3 304°.67 5°.8/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.62	+33 18.8	1.727	2.572	13.8	19.5
12 23	8 2.11	+34 29.3	1.645	2.554	10.5	19.3
1 2	7 53.61	+35 36.8	1.587	2.536	7.3	19.1
1 12	7 43.00	+36 32.8	1.556	2.519	5.8	18.9
1 22	7 31.66	+37 10.1	1.553	2.502	7.6	19.0
2 1	7 21.22	+37 25.3	1.576	2.485	11.0	19.1
2 11	7 13.15	+37 19.3	1.622	2.468	14.6	19.3
2 21	7 8.37	+36 56.2	1.688	2.452	17.7	19.5

151622 2002 VX_{121} 1 14.3 117°.18 1°.7/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 15.09	+25 7.5	1.659	2.493	14.8	20.8
12 23	8 6.81	+25 23.0	1.605	2.515	10.7	20.6
1 2	7 55.84	+25 38.3	1.575	2.535	6.1	20.4
1 12	7 43.36	+25 48.6	1.573	2.554	1.9	20.2
1 22	7 30.81	+25 50.4	1.601	2.573	4.4	20.4
2 1	7 19.68	+25 43.0	1.658	2.591	8.8	20.7
2 11	7 11.11	+25 27.5	1.741	2.608	12.7	20.9
2 21	7 5.67	+25 6.3	1.846	2.624	15.9	21.2

898 Hildegard 1 14.3 186°.99 2°.9/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.80	+10 19.4	2.952	3.745	10.1	17.5
12 23	7 58.61	+10 10.3	2.865	3.744	7.7	17.3
1 2	7 50.98	+10 9.3	2.804	3.743	5.2	17.1
1 12	7 42.46	+10 16.1	2.773	3.741	3.1	17.0
1 22	7 33.71	+10 29.4	2.774	3.738	3.5	17.0
2 1	7 25.46	+10 47.9	2.806	3.734	5.8	17.2
2 11	7 18.34	+11 9.7	2.867	3.730	8.4	17.3
2 21	7 12.84	+11 32.9	2.954	3.725	10.7	17.5

86921 2000 HV_{56} 1 14.3 201°.49 1°.6/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.25	+23 35.4	1.881	2.715	13.3	20.1
12 23	8 3.48	+24 17.2	1.801	2.711	9.7	19.9
1 2	7 54.13	+25 2.6	1.746	2.707	5.6	19.6
1 12	7 43.10	+25 46.3	1.720	2.701	1.8	19.4
1 22	7 31.57	+26 23.4	1.724	2.695	4.2	19.5
2 1	7 20.89	+26 50.5	1.757	2.689	8.5	19.8
2 11	7 12.28	+27 6.8	1.817	2.681	12.4	20.0
2 21	7 6.47	+27 13.3	1.898	2.673	15.7	20.2

148941 2001 XC_{131} 1 14.3 87°.31 1°.6/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.06	+15 57.7	1.841	2.671	13.7	20.4
12 23	8 0.16	+16 9.2	1.777	2.683	10.1	20.2
1 2	7 52.07	+16 29.7	1.738	2.694	6.0	20.0
1 12	7 42.68	+16 56.6	1.726	2.706	2.0	19.8
1 22	7 33.07	+17 26.6	1.743	2.718	3.6	19.9
2 1	7 24.38	+17 56.6	1.789	2.729	7.6	20.2
2 11	7 17.60	+18 24.4	1.861	2.741	11.4	20.4
2 21	7 13.32	+18 48.3	1.956	2.752	14.5	20.7

233889 2008 XH_{42} 1 14.3 250°.54 0°.9/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.59	+23 24.6	2.447	3.279	10.7	21.1
12 23	7 58.88	+23 42.3	2.359	3.269	7.8	20.9
1 2	7 51.31	+24 1.9	2.298	3.258	4.4	20.7
1 12	7 42.55	+24 20.5	2.266	3.248	1.1	20.4
1 22	7 33.45	+24 35.4	2.264	3.237	3.1	20.5
2 1	7 24.97	+24 44.9	2.292	3.226	6.6	20.7
2 11	7 17.94	+24 48.3	2.348	3.215	9.9	20.9
2 21	7 12.97	+24 46.1	2.428	3.204	12.6	21.1

30724 Peterburgtrista 1 14.3 65°.00 8°.3/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.50	+47 43.5	2.317	3.112	12.4	16.9
12 23	8 6.48	+48 28.7	2.259	3.116	10.4	16.8
1 2	7 55.72	+48 58.0	2.225	3.120	8.9	16.7
1 12	7 43.37	+49 4.7	2.217	3.123	8.3	16.7
1 22	7 30.89	+48 45.6	2.237	3.127	9.1	16.7
2 1	7 19.77	+48 1.7	2.282	3.131	10.7	16.8
2 11	7 11.20	+46 57.4	2.352	3.135	12.7	17.0
2 21	7 5.77	+45 39.2	2.442	3.139	14.6	17.1

328243 2008 FU_{75} 1 14.3 202°.06 2°.1/13.4 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.84	+26 29.9	2.340	3.171	11.1	21.9
12 23	8 1.32	+27 2.9	2.259	3.166	8.1	21.7
1 2	7 52.73	+27 36.0	2.204	3.162	4.8	21.5
1 12	7 42.83	+28 5.0	2.178	3.157	2.1	21.3
1 22	7 32.58	+28 26.5	2.183	3.151	3.9	21.4
2 1	7 23.04	+28 38.4	2.218	3.144	7.3	21.6
2 11	7 15.15	+28 40.7	2.281	3.138	10.5	21.8
2 21	7 9.56	+28 34.7	2.367	3.130	13.3	22.0

473858 2016 EL_{132} 1 14.3 119°.25 4°.9/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.76	+35 24.3	2.156	2.985	12.0	21.6
12 23	8 2.86	+35 59.8	2.091	2.990	9.1	21.4
1 2	7 53.62	+36 27.9	2.051	2.995	6.4	21.2
1 12	7 42.99	+36 43.0	2.040	3.000	4.9	21.1
1 22	7 32.14	+36 42.0	2.058	3.005	6.1	21.2
2 1	7 22.33	+36 24.2	2.104	3.009	8.8	21.4
2 11	7 14.59	+35 52.0	2.175	3.014	11.7	21.6
2 21	7 9.54	+35 9.2	2.269	3.018	14.2	21.8

83170 2001 QZ_{281} 1 14.3 103°.27 3°.4/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.85	+12 26.6	2.367	3.176	11.8	18.6
12 23	7 59.59	+11 40.3	2.290	3.179	9.0	18.4
1 2	7 51.61	+11 1.2	2.238	3.182	5.9	18.2
1 12	7 42.60	+10 29.6	2.216	3.185	3.6	18.1
1 22	7 33.41	+10 5.9	2.224	3.188	4.2	18.1
2 1	7 24.92	+ 9 49.5	2.262	3.191	7.0	18.3
2 11	7 17.90	+ 9 39.6	2.328	3.194	9.9	18.5
2 21	7 12.87	+ 9 34.4	2.417	3.197	12.5	18.7

424923 2008 XR_{44} 1 14.3 133°.26 2°.2/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 4.94	+24 3.7	2.273	3.108	11.3	20.1
12 23	7 59.32	+25 23.7	2.199	3.109	8.2	19.9
1 2	7 51.66	+26 47.9	2.151	3.111	4.7	19.7
1 12	7 42.65	+28 10.4	2.134	3.112	2.2	19.6
1 22	7 33.22	+29 25.5	2.148	3.114	4.1	19.7
2 1	7 24.40	+30 28.9	2.191	3.115	7.5	19.9
2 11	7 17.17	+31 18.9	2.262	3.116	10.7	20.1
2 21	7 12.18	+31 55.7	2.357	3.118	13.4	20.3

426408 2013 PO_{69} 1 14.3 175°.36 1°.4/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.63	+17 34.6	2.369	3.187	11.4	21.2
12 23	8 0.93	+17 18.9	2.289	3.189	8.4	21.0
1 2	7 52.40	+17 7.7	2.236	3.191	5.0	20.8
1 12	7 42.77	+16 59.7	2.212	3.193	1.7	20.6
1 22	7 32.91	+16 53.7	2.220	3.193	3.1	20.7
2 1	7 23.78	+16 48.9	2.258	3.194	6.6	20.9
2 11	7 16.19	+16 44.3	2.324	3.193	9.8	21.1
2 21	7 10.71	+16 39.7	2.414	3.193	12.6	21.3

36342 2000 NX_{15} 1 14.3 66°.62 2°.2/13.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.68	+25 48.1	1.355	2.203	16.6	18.8
12 23	8 6.09	+26 8.3	1.315	2.231	12.0	18.6
1 2	7 55.51	+26 27.9	1.298	2.259	6.9	18.3
1 12	7 43.34	+26 41.1	1.307	2.287	2.4	18.1
1 22	7 31.26	+26 44.1	1.343	2.315	5.0	18.4
2 1	7 20.94	+26 35.9	1.407	2.343	9.7	18.7
2 11	7 13.54	+26 18.6	1.495	2.371	13.9	19.0
2 21	7 9.59	+25 54.8	1.603	2.398	17.3	19.3

326308 1999 FS_{73} 1 14.3 128°.90 6°.9/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.18	+38 47.4	1.857	2.687	13.6	21.2
12 23	8 5.12	+39 42.5	1.794	2.688	10.7	21.0
1 2	7 55.13	+40 27.2	1.755	2.690	8.1	20.8
1 12	7 43.31	+40 53.4	1.743	2.691	6.9	20.8
1 22	7 31.16	+40 56.6	1.758	2.692	8.2	20.8
2 1	7 20.28	+40 36.1	1.800	2.694	10.8	21.0
2 11	7 11.97	+39 55.6	1.866	2.695	13.7	21.2
2 21	7 6.94	+39 1.0	1.953	2.696	16.3	21.4

100133 Demosthenes 1 14.3 174°.28 0°.6/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.85	+23 30.8	3.942	4.765	7.1	21.1
12 23	7 54.84	+23 47.1	3.862	4.767	5.1	21.0
1 2	7 48.78	+24 4.2	3.809	4.769	2.9	20.8
1 12	7 42.08	+24 20.5	3.788	4.770	0.8	20.6
1 22	7 35.24	+24 34.6	3.799	4.771	2.1	20.7
2 1	7 28.78	+24 45.3	3.841	4.772	4.3	20.9
2 11	7 23.18	+24 52.1	3.913	4.773	6.4	21.0
2 21	7 18.80	+24 55.1	4.010	4.773	8.2	21.2

356473 2011 QO_{62} 1 14.3 347°.10 4°.3/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.60	+30 2.3	1.306	2.162	16.6	20.5
12 23	8 4.59	+30 26.2	1.240	2.158	12.4	20.3
1 2	7 55.08	+30 45.8	1.196	2.155	7.7	20.0
1 12	7 43.33	+30 53.9	1.176	2.152	4.3	19.8
1 22	7 31.13	+30 45.3	1.183	2.150	6.6	19.9
2 1	7 20.41	+30 19.2	1.215	2.148	11.2	20.2
2 11	7 12.76	+29 39.0	1.270	2.147	15.7	20.4
2 21	7 8.92	+28 49.4	1.344	2.147	19.6	20.7

325333 2008 JN_{33} 1 14.3 142°.24 5°.3/16.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.30	+ 5 36.0	2.013	2.808	14.0	20.8
12 23	7 58.78	+ 5 24.5	1.938	2.812	11.1	20.6
1 2	7 51.30	+ 5 29.0	1.887	2.816	8.0	20.4
1 12	7 42.59	+ 5 49.8	1.862	2.820	5.6	20.3
1 22	7 33.59	+ 6 25.0	1.866	2.823	5.7	20.3
2 1	7 25.31	+ 7 11.5	1.898	2.826	8.2	20.4
2 11	7 18.66	+ 8 4.8	1.957	2.829	11.3	20.6
2 21	7 14.22	+ 9 0.7	2.039	2.832	14.1	20.8

64004 2001 SZ_{120} 1 14.3 281°.93 1°.6/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.35	+15 55.0	2.265	3.090	11.7	19.5
12 23	7 58.05	+15 53.7	2.177	3.079	8.7	19.3
1 2	7 50.89	+15 59.3	2.113	3.068	5.3	19.1
1 12	7 42.52	+16 10.6	2.078	3.058	2.0	18.9
1 22	7 33.80	+16 25.7	2.073	3.047	3.2	18.9
2 1	7 25.68	+16 42.5	2.098	3.037	6.8	19.1
2 11	7 19.02	+16 59.2	2.149	3.026	10.2	19.3
2 21	7 14.43	+17 14.5	2.224	3.015	13.2	19.5

110733 2001 TK_{238} 1 14.3 193°.71 5°.5/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.77	+38 2.8	2.575	3.397	10.5	19.9
12 23	8 1.37	+39 7.0	2.506	3.396	8.2	19.7
1 2	7 52.81	+40 4.3	2.463	3.394	6.2	19.6
1 12	7 42.89	+40 48.8	2.448	3.392	5.5	19.5
1 22	7 32.60	+41 16.6	2.463	3.391	6.5	19.6
2 1	7 23.05	+41 26.0	2.506	3.388	8.6	19.7
2 11	7 15.23	+41 18.5	2.575	3.386	10.9	19.9
2 21	7 9.79	+40 57.2	2.665	3.383	13.0	20.0

363245 2002 AS_{169} 1 14.3 355°.21 0°.5/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 7.51	+23 31.7	1.552	2.400	14.9	20.2
12 23	8 1.72	+23 17.4	1.481	2.397	10.9	19.9
1 2	7 53.19	+23 4.1	1.432	2.395	6.2	19.7
1 12	7 42.97	+22 48.9	1.411	2.393	1.2	19.3
1 22	7 32.42	+22 29.8	1.417	2.392	4.1	19.5
2 1	7 23.02	+22 6.3	1.450	2.392	8.9	19.8
2 11	7 15.98	+21 39.3	1.508	2.392	13.3	20.1
2 21	7 11.99	+21 10.0	1.588	2.393	16.9	20.3

236091 2005 LO_{51} 1 14.3 187°.68 2°.9/15.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.66	+ 9 22.6	3.000	3.795	9.9	21.5
12 23	7 56.39	+ 9 27.4	2.914	3.794	7.6	21.4
1 2	7 49.76	+ 9 41.4	2.854	3.793	5.1	21.2
1 12	7 42.30	+10 3.9	2.824	3.791	3.1	21.1
1 22	7 34.62	+10 33.5	2.824	3.789	3.4	21.1
2 1	7 27.39	+11 8.0	2.856	3.787	5.6	21.2
2 11	7 21.21	+11 45.2	2.916	3.784	8.1	21.4
2 21	7 16.55	+12 22.9	3.001	3.781	10.4	21.5

381906 2010 CL_{19} 1 14.3 96°.18 4°.7/15.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 38.92	+ 9 43.6	1.168	1.955	22.6	20.7
12 23	8 23.76	+ 9 46.2	1.139	2.017	16.8	20.5
1 2	8 5.16	+10 7.3	1.133	2.075	10.5	20.3
1 12	7 45.11	+10 42.8	1.157	2.130	5.3	20.2
1 22	7 25.97	+11 26.4	1.213	2.180	6.4	20.4
2 1	7 9.79	+12 12.7	1.299	2.227	11.2	20.8
2 11	6 57.79	+12 57.4	1.411	2.270	15.6	21.2
2 21	6 50.24	+13 38.3	1.545	2.310	19.1	21.5

243053 2007 CD_{53} 1 14.3 277°.17 15°.6/22.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.56	−13 43.1	1.183	1.922	24.9	20.1
12 23	8 1.76	−14 0.1	1.108	1.916	22.2	19.9
1 2	7 53.62	−13 28.5	1.048	1.909	19.3	19.7
1 12	7 43.13	−11 59.4	1.006	1.903	16.8	19.5
1 22	7 31.78	− 9 32.2	0.985	1.896	15.6	19.4
2 1	7 21.43	− 6 15.8	0.986	1.890	16.5	19.4
2 11	7 13.73	− 2 29.0	1.011	1.884	19.2	19.6
2 21	7 9.73	+ 1 26.7	1.056	1.877	22.6	19.8

424370 2007 VC_{256} 1 14.3 89°.21 4°.0/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.96	+33 6.8	2.324	3.156	11.1	21.5
12 23	8 0.70	+33 45.6	2.260	3.164	8.3	21.3
1 2	7 52.37	+34 19.3	2.222	3.171	5.6	21.2
1 12	7 42.80	+34 43.2	2.213	3.179	4.0	21.1
1 22	7 33.04	+34 53.9	2.234	3.186	5.3	21.2
2 1	7 24.14	+34 50.6	2.283	3.194	8.0	21.4
2 11	7 17.04	+34 34.3	2.358	3.201	10.7	21.6
2 21	7 12.32	+34 8.0	2.456	3.208	13.1	21.7

367583 2009 SS_{236} 1 14.3 60°.11 2°.3/15.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.47	+11 45.1	1.697	2.522	14.9	20.3
12 23	7 59.82	+12 33.4	1.644	2.544	11.1	20.1
1 2	7 51.93	+13 36.7	1.614	2.567	6.8	19.9
1 12	7 42.72	+14 50.8	1.611	2.589	2.9	19.7
1 22	7 33.33	+16 9.7	1.638	2.612	3.8	19.8
2 1	7 24.94	+17 27.5	1.693	2.635	7.9	20.1
2 11	7 18.54	+18 39.4	1.775	2.658	11.7	20.4
2 21	7 14.72	+19 42.5	1.880	2.681	14.9	20.6

193871 2001 QA_{156} 1 14.3 61°.57 0°.5/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.67	+22 20.9	1.323	2.173	16.8	20.0
12 23	8 4.24	+22 24.1	1.265	2.182	12.2	19.7
1 2	7 54.69	+22 31.2	1.229	2.192	7.0	19.5
1 12	7 43.26	+22 37.8	1.219	2.201	1.4	19.1
1 22	7 31.59	+22 40.2	1.235	2.211	4.5	19.4
2 1	7 21.38	+22 36.6	1.279	2.221	9.8	19.7
2 11	7 13.97	+22 27.3	1.346	2.231	14.5	20.0
2 21	7 10.05	+22 13.4	1.433	2.241	18.3	20.3

318039 2004 EK_{78} 1 14.3 229°.22 1°.4/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.90	+22 40.4	1.470	2.316	15.7	20.7
12 23	8 3.77	+23 17.2	1.396	2.312	11.4	20.4
1 2	7 54.55	+23 59.7	1.346	2.308	6.6	20.2
1 12	7 43.28	+24 41.8	1.321	2.303	1.8	19.8
1 22	7 31.43	+25 17.6	1.325	2.299	4.7	20.0
2 1	7 20.68	+25 43.1	1.356	2.294	9.8	20.3
2 11	7 12.47	+25 57.3	1.411	2.288	14.4	20.6
2 21	7 7.66	+26 1.3	1.486	2.283	18.3	20.8

79253 1994 UQ_{7} 1 14.3 257°.66 3°.4/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.29	+28 48.7	1.733	2.576	13.8	20.0
12 23	8 3.01	+29 24.8	1.660	2.572	10.2	19.8
1 2	7 53.97	+29 59.2	1.610	2.568	6.3	19.6
1 12	7 43.16	+30 25.9	1.588	2.564	3.5	19.4
1 22	7 31.92	+30 40.2	1.595	2.560	5.4	19.5
2 1	7 21.72	+30 40.0	1.629	2.556	9.4	19.7
2 11	7 13.82	+30 26.3	1.688	2.551	13.2	19.9
2 21	7 8.98	+30 2.3	1.768	2.547	16.5	20.2

293020 2006 WV_{54} 1 14.3 237.°90 1.°7/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.77	+16 16.6	2.018	2.843	12.9	21.3
12 23	8 0.74	+16 11.7	1.931	2.833	9.6	21.0
1 2	7 52.53	+16 14.1	1.868	2.823	5.8	20.8
1 12	7 42.88	+16 22.2	1.833	2.813	2.2	20.5
1 22	7 32.82	+16 33.9	1.828	2.802	3.6	20.6
2 1	7 23.46	+16 47.3	1.853	2.791	7.6	20.8
2 11	7 15.82	+17 0.5	1.904	2.780	11.3	21.0
2 21	7 10.59	+17 12.4	1.979	2.769	14.6	21.2

288539 2004 GU_{23} 1 14.3 194.°39 1.°8/15.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.70	+14 35.2	1.711	2.537	14.8	20.7
12 23	8 2.45	+15 4.3	1.632	2.535	11.0	20.5
1 2	7 53.63	+15 45.9	1.577	2.533	6.6	20.2
1 12	7 43.10	+16 36.8	1.550	2.530	2.3	19.9
1 22	7 32.08	+17 32.2	1.552	2.527	3.9	20.0
2 1	7 21.91	+18 27.3	1.583	2.523	8.5	20.3
2 11	7 13.80	+19 18.1	1.640	2.519	12.7	20.5
2 21	7 8.51	+20 2.4	1.720	2.514	16.3	20.8

135164 2001 QH_{248} 1 14.3 119.°42 4.°7/17.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.02	+ 3 37.0	2.667	3.443	11.5	19.9
12 23	7 56.71	+ 3 31.3	2.596	3.455	9.2	19.8
1 2	7 49.97	+ 3 39.1	2.549	3.467	6.8	19.6
1 12	7 42.38	+ 4 0.5	2.531	3.479	5.0	19.5
1 22	7 34.62	+ 4 34.0	2.542	3.491	5.0	19.6
2 1	7 27.43	+ 5 17.1	2.582	3.502	6.7	19.7
2 11	7 21.44	+ 6 6.4	2.651	3.513	9.0	19.9
2 21	7 17.11	+ 6 58.7	2.744	3.524	11.2	20.0

90357 2003 HC_{20} 1 14.3 137.°04 0.°4/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.20	+19 13.6	2.037	2.868	12.5	20.3
12 23	8 0.22	+19 27.1	1.965	2.873	9.1	20.1
1 2	7 52.15	+19 46.1	1.919	2.878	5.3	19.8
1 12	7 42.81	+20 7.8	1.900	2.882	1.1	19.6
1 22	7 33.20	+20 29.3	1.911	2.887	3.2	19.7
2 1	7 24.40	+20 48.1	1.952	2.891	7.2	20.0
2 11	7 17.36	+21 2.9	2.020	2.895	10.8	20.2
2 21	7 12.68	+21 13.2	2.110	2.898	13.9	20.4

420505 2012 FU_{36} 1 14.3 113.°44 2.°9/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.78	+27 17.9	1.910	2.750	12.9	21.4
12 23	8 1.62	+28 5.9	1.844	2.756	9.4	21.2
1 2	7 53.06	+28 54.0	1.803	2.762	5.6	20.9
1 12	7 43.00	+29 36.2	1.791	2.768	2.9	20.8
1 22	7 32.61	+30 8.0	1.807	2.773	4.8	20.9
2 1	7 23.18	+30 26.8	1.852	2.778	8.5	21.1
2 11	7 15.79	+30 32.7	1.923	2.784	12.0	21.4
2 21	7 11.10	+30 27.7	2.016	2.789	14.9	21.6

168403 1998 FW_{76} 1 14.3 307.°78 4.°4/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.78	+29 5.1	1.484	2.336	15.2	19.7
12 23	8 3.13	+30 3.0	1.412	2.328	11.3	19.5
1 2	7 54.28	+31 0.8	1.363	2.321	7.1	19.2
1 12	7 43.28	+31 50.1	1.340	2.314	4.4	19.0
1 22	7 31.65	+32 23.9	1.343	2.306	6.6	19.2
2 1	7 21.15	+32 38.6	1.374	2.300	10.9	19.4
2 11	7 13.29	+32 35.0	1.427	2.293	15.0	19.6
2 21	7 8.94	+32 16.9	1.500	2.287	18.6	19.8

269296 2008 SU_{52} 1 14.3 221.°68 3.°9/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.22	+32 27.5	2.345	3.175	11.1	21.2
12 23	8 1.73	+33 8.0	2.265	3.168	8.3	21.0
1 2	7 53.07	+33 44.4	2.212	3.162	5.5	20.8
1 12	7 43.01	+34 11.7	2.188	3.155	3.9	20.7
1 22	7 32.59	+34 26.2	2.193	3.147	5.3	20.7
2 1	7 22.93	+34 26.2	2.228	3.139	8.1	20.9
2 11	7 15.05	+34 12.9	2.289	3.131	11.0	21.1
2 21	7 9.59	+33 48.8	2.373	3.123	13.6	21.2

456952 2008 AP_{57} 1 14.3 254.°19 1.°4/14.9 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.08	+15 20.1	1.936	2.762	13.3	21.9
12 23	8 0.44	+15 48.1	1.844	2.747	9.9	21.7
1 2	7 52.48	+16 27.1	1.776	2.732	6.0	21.4
1 12	7 42.93	+17 14.3	1.736	2.716	2.0	21.1
1 22	7 32.79	+18 5.7	1.725	2.700	3.5	21.2
2 1	7 23.27	+18 57.1	1.744	2.684	7.8	21.4
2 11	7 15.48	+19 45.0	1.790	2.667	11.9	21.6
2 21	7 10.19	+20 27.1	1.858	2.650	15.3	21.8

86777 2000 GV_{91} 1 14.3 303.°91 1.°8/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.43	+21 28.4	1.296	2.153	16.7	18.7
12 23	8 1.86	+22 29.6	1.209	2.131	12.3	18.4
1 2	7 53.84	+23 43.1	1.145	2.109	7.1	18.0
1 12	7 43.25	+25 1.6	1.106	2.088	2.0	17.7
1 22	7 31.59	+26 15.8	1.093	2.067	5.5	17.8
2 1	7 20.76	+27 18.0	1.106	2.046	11.2	18.1
2 11	7 12.58	+28 4.2	1.141	2.025	16.6	18.3
2 21	7 8.21	+28 34.1	1.195	2.005	21.1	18.5

186480 2002 TX_{84} 1 14.3 83.°68 2.°4/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 11.22	+13 15.2	1.378	2.210	17.4	20.0
12 23	8 4.28	+13 44.9	1.332	2.237	12.8	19.8
1 2	7 54.57	+14 29.8	1.308	2.264	7.8	19.6
1 12	7 43.27	+15 25.2	1.311	2.290	3.0	19.4
1 22	7 31.89	+16 25.1	1.341	2.316	4.4	19.6
2 1	7 21.93	+17 23.8	1.399	2.341	9.1	19.9
2 11	7 14.58	+18 17.1	1.483	2.366	13.5	20.2
2 21	7 10.41	+19 2.6	1.587	2.391	17.0	20.5

31733 1999 JP_{71} 1 14.3 119.°85 1.°4/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.22	+24 13.3	2.560	3.391	10.3	18.3
12 23	7 58.50	+24 52.8	2.492	3.401	7.4	18.1
1 2	7 51.08	+25 34.0	2.451	3.411	4.2	17.9
1 12	7 42.62	+26 13.2	2.439	3.420	1.5	17.7
1 22	7 33.94	+26 47.2	2.459	3.429	3.2	17.9
2 1	7 25.92	+27 13.8	2.508	3.438	6.4	18.1
2 11	7 19.32	+27 32.3	2.585	3.446	9.3	18.3
2 21	7 14.67	+27 43.0	2.686	3.455	11.7	18.5

76771 2000 KG_{46} 1 14.3 247.°87 1.°2/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.01	+22 30.4	2.302	3.136	11.2	18.9
12 23	7 58.62	+23 22.1	2.222	3.132	8.1	18.7
1 2	7 51.29	+24 18.1	2.168	3.128	4.6	18.5
1 12	7 42.69	+25 14.2	2.143	3.124	1.4	18.2
1 22	7 33.71	+26 6.1	2.149	3.120	3.5	18.4
2 1	7 25.34	+26 50.3	2.184	3.116	7.0	18.6
2 11	7 18.48	+27 25.1	2.247	3.112	10.3	18.8
2 21	7 13.77	+27 50.4	2.334	3.108	13.1	19.0

297402 2000 QJ_{203} 1 14.3 126.°99 1.°6/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.38	+24 6.9	1.826	2.660	13.6	21.7
12 23	8 4.14	+24 41.0	1.765	2.675	9.9	21.5
1 2	7 54.44	+25 17.0	1.730	2.690	5.6	21.3
1 12	7 43.28	+25 49.7	1.724	2.705	1.8	21.1
1 22	7 31.91	+26 14.9	1.747	2.718	4.1	21.3
2 1	7 21.64	+26 30.3	1.799	2.731	8.3	21.5
2 11	7 13.58	+26 36.0	1.878	2.744	12.0	21.8
2 21	7 8.33	+26 33.4	1.979	2.755	15.1	22.0

95432 2002 CW_{241} 1 14.3 7.°22 5.°3/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.26	+ 7 5.9	1.741	2.553	15.2	19.3
12 23	7 58.34	+ 6 52.1	1.667	2.553	11.9	19.1
1 2	7 51.21	+ 6 55.3	1.617	2.554	8.4	18.9
1 12	7 42.68	+ 7 15.6	1.592	2.555	5.7	18.7
1 22	7 33.81	+ 7 51.2	1.594	2.556	5.9	18.7
2 1	7 25.73	+ 8 38.3	1.624	2.558	8.8	18.9
2 11	7 19.48	+ 9 32.0	1.679	2.560	12.3	19.1
2 21	7 15.70	+10 27.7	1.756	2.562	15.5	19.3

131761 2002 AB_{10} 1 14.3 284.°34 0.°1/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.33	+19 42.8	1.541	2.385	15.2	19.6
12 23	8 1.94	+20 10.8	1.453	2.367	11.2	19.3
1 2	7 53.61	+20 47.9	1.387	2.349	6.5	19.0
1 12	7 43.19	+21 29.5	1.348	2.331	1.2	18.6
1 22	7 32.01	+22 10.5	1.337	2.312	4.2	18.7
2 1	7 21.63	+22 46.3	1.353	2.294	9.5	19.0
2 11	7 13.51	+23 14.3	1.393	2.275	14.3	19.2
2 21	7 8.58	+23 33.8	1.454	2.257	18.3	19.4

382297 2012 VO_{43} 1 14.3 292.°21 10.°4/18.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.38	−10 46.7	2.441	3.138	14.4	20.2
12 23	7 57.26	−12 3.6	2.360	3.132	12.9	20.1
1 2	7 50.45	−13 0.0	2.301	3.126	11.5	20.0
1 12	7 42.54	−13 32.0	2.266	3.119	10.5	19.9
1 22	7 34.29	−13 37.7	2.255	3.113	10.4	19.9
2 1	7 26.55	−13 17.7	2.268	3.107	11.2	19.9
2 11	7 20.10	−12 35.8	2.305	3.101	12.5	20.0
2 21	7 15.50	−11 37.3	2.363	3.095	14.1	20.1

131896 2002 AQ_{189} 1 14.3 30.°03 10.°6/17.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.66	+ 0 40.0	1.179	1.991	20.9	18.4
12 23	7 59.94	− 0 29.8	1.128	2.002	17.3	18.2
1 2	7 52.31	− 1 10.6	1.096	2.014	13.7	18.0
1 12	7 42.92	− 1 17.9	1.086	2.027	11.1	17.9
1 22	7 33.25	− 0 52.1	1.098	2.040	10.9	17.9
2 1	7 24.88	+ 0 2.0	1.133	2.055	13.1	18.1
2 11	7 19.08	+ 1 15.1	1.190	2.070	16.3	18.3
2 21	7 16.52	+ 2 37.5	1.265	2.086	19.5	18.6

218257 2003 AZ_{38} 1 14.3 325.°96 3.°2/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.51	+10 5.6	1.619	2.445	15.5	19.5
12 23	7 58.84	+10 45.9	1.538	2.437	11.8	19.3
1 2	7 51.68	+11 45.6	1.479	2.430	7.6	19.0
1 12	7 42.82	+13 1.8	1.447	2.423	3.7	18.8
1 22	7 33.41	+14 29.1	1.443	2.416	4.4	18.8
2 1	7 24.73	+16 0.6	1.466	2.410	8.7	19.0
2 11	7 18.01	+17 29.4	1.516	2.404	13.0	19.3
2 21	7 14.04	+18 50.7	1.587	2.398	16.7	19.5

460200 2014 QM_{141} 1 14.3 98°.74 0°.2/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 7.22	+18 58.3	1.735	2.572	14.1	21.4
12 23	8 1.26	+19 24.9	1.669	2.580	10.3	21.2
1 2	7 52.89	+19 58.9	1.627	2.588	5.9	21.0
1 12	7 43.03	+20 36.3	1.613	2.596	1.2	20.7
1 22	7 32.87	+21 12.8	1.628	2.604	3.6	20.9
2 1	7 23.68	+21 45.0	1.672	2.612	8.1	21.2
2 11	7 16.57	+22 10.9	1.741	2.619	12.1	21.4
2 21	7 12.17	+22 29.9	1.832	2.627	15.4	21.7

354834 2005 XQ_{79} 1 14.3 347°.15 2°.2/15.0 18

12 13	8 2.72	+15 20.3	1.112	1.974	18.5	20.1
12 23	7 59.10	+15 34.7	1.043	1.965	13.8	19.8
1 2	7 52.16	+16 5.8	0.995	1.957	8.4	19.4
1 12	7 42.94	+16 50.4	0.969	1.950	2.9	19.1
1 22	7 33.05	+17 42.8	0.967	1.944	4.9	19.2
2 1	7 24.32	+18 36.4	0.990	1.940	10.8	19.5
2 11	7 18.38	+19 25.7	1.034	1.937	16.1	19.8
2 21	7 16.14	+20 7.2	1.096	1.935	20.7	20.1

157139 2004 OE_{11} 1 14.3 183°.66 3°.1/13.0 18

12 13	8 11.20	+26 53.3	1.765	2.604	13.8	20.5
12 23	8 4.40	+27 51.1	1.693	2.605	10.1	20.3
1 2	7 54.82	+28 50.2	1.646	2.605	6.1	20.0
1 12	7 43.42	+29 43.5	1.627	2.604	3.2	19.9
1 22	7 31.54	+30 24.9	1.638	2.603	5.3	20.0
2 1	7 20.64	+30 51.2	1.677	2.601	9.3	20.2
2 11	7 12.03	+31 2.3	1.741	2.599	13.1	20.4
2 21	7 6.48	+31 0.8	1.826	2.596	16.4	20.7

294227 2007 UN_{21} 1 14.3 22°.74 1°.6/14.9 18

12 13	8 3.10	+16 1.0	2.001	2.832	12.7	20.9
12 23	7 58.00	+16 5.3	1.930	2.836	9.4	20.7
1 2	7 50.93	+16 17.7	1.884	2.841	5.6	20.5
1 12	7 42.65	+16 36.3	1.866	2.846	2.0	20.3
1 22	7 34.12	+16 58.6	1.876	2.851	3.4	20.4
2 1	7 26.36	+17 22.0	1.915	2.856	7.1	20.6
2 11	7 20.26	+17 44.3	1.981	2.862	10.7	20.8
2 21	7 16.41	+18 4.1	2.069	2.868	13.7	21.1

182428 2001 RS_{126} 1 14.3 105°.25 2°.2/15.4 18

12 13	8 6.61	+13 1.9	1.978	2.796	13.4	20.9
12 23	8 0.46	+13 25.1	1.916	2.814	10.0	20.7
1 2	7 52.28	+13 59.5	1.879	2.831	6.1	20.5
1 12	7 42.91	+14 42.4	1.870	2.848	2.6	20.3
1 22	7 33.35	+15 30.1	1.892	2.865	3.6	20.4
2 1	7 24.65	+16 19.0	1.942	2.881	7.2	20.7
2 11	7 17.72	+17 5.6	2.020	2.897	10.7	20.9
2 21	7 13.12	+17 47.7	2.121	2.912	13.7	21.1

43032 1999 VR_{26} 1 14.3 147°.86 1°.2/13.8 18 R

12 13	8 5.96	+23 25.1	2.167	3.002	11.8	19.3
12 23	8 0.05	+23 53.8	2.095	3.005	8.5	19.1
1 2	7 52.10	+24 24.9	2.048	3.008	4.9	18.9
1 12	7 42.89	+24 54.6	2.030	3.011	1.4	18.6
1 22	7 33.39	+25 19.7	2.041	3.014	3.5	18.8
2 1	7 24.67	+25 37.7	2.083	3.017	7.2	19.0
2 11	7 17.64	+25 48.0	2.151	3.019	10.6	19.2
2 21	7 12.91	+25 51.1	2.242	3.021	13.4	19.4

36565 2000 QG_{118} 1 14.3 114°.45 1°.9/14.9 18

12 13	8 9.87	+16 23.8	1.660	2.490	15.0	18.9
12 23	8 3.14	+16 18.0	1.598	2.503	11.1	18.7
1 2	7 53.92	+16 20.6	1.559	2.515	6.6	18.5
1 12	7 43.23	+16 29.6	1.547	2.527	2.4	18.2
1 22	7 32.33	+16 42.4	1.564	2.538	4.0	18.4
2 1	7 22.54	+16 56.5	1.610	2.550	8.4	18.6
2 11	7 14.95	+17 10.1	1.681	2.560	12.4	18.9
2 21	7 10.19	+17 21.8	1.774	2.571	15.8	19.2

5579 Uhlherr 1 14.3 136°.86 10°.2/ 8.9 18 R

12 13	8 18.91	+34 53.1	1.225	2.072	18.1	17.2
12 23	8 11.79	+38 8.9	1.176	2.080	14.2	16.9
1 2	7 59.94	+41 20.7	1.151	2.088	11.0	16.8
1 12	7 44.53	+44 6.9	1.153	2.096	10.3	16.8
1 22	7 27.82	+46 10.4	1.182	2.103	12.6	16.9
2 1	7 12.64	+47 24.9	1.235	2.109	16.2	17.2
2 11	7 1.45	+47 55.7	1.308	2.115	19.7	17.4
2 21	6 55.45	+47 54.0	1.397	2.120	22.6	17.6

314756 2006 SH_{319} 1 14.3 352°.82 2°.7/13.4 18

12 13	8 5.63	+25 3.4	1.390	2.249	15.7	20.2
12 23	8 0.83	+25 51.6	1.323	2.244	11.5	20.0
1 2	7 52.97	+26 43.7	1.278	2.241	6.7	19.7
1 12	7 43.10	+27 32.6	1.258	2.238	2.8	19.4
1 22	7 32.70	+28 11.8	1.265	2.236	5.4	19.6
2 1	7 23.44	+28 37.0	1.298	2.235	10.3	19.9
2 11	7 16.75	+28 47.6	1.354	2.235	14.7	20.1
2 21	7 13.44	+28 45.5	1.430	2.235	18.5	20.4

176189 2001 OS_{41} 1 14.3 151°.70 5°.0/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 12.26	+35 26.4	2.207	3.031	11.9	20.4
12 23	8 4.73	+36 14.2	2.143	3.040	9.1	20.3
1 2	7 54.80	+36 54.7	2.106	3.048	6.4	20.1
1 12	7 43.41	+37 22.0	2.097	3.055	5.0	20.1
1 22	7 31.79	+37 32.2	2.118	3.062	6.3	20.1
2 1	7 21.20	+37 24.5	2.168	3.068	8.9	20.3
2 11	7 12.70	+37 1.2	2.243	3.074	11.6	20.5
2 21	7 6.94	+36 26.1	2.341	3.079	14.1	20.7

301813 2011 OA_{25} 1 14.3 101°.62 2°.6/15.5 18

12 13	8 9.89	+12 10.3	1.732	2.549	15.0	21.2
12 23	8 2.96	+12 34.2	1.678	2.574	11.2	21.0
1 2	7 53.74	+13 11.3	1.649	2.599	7.0	20.8
1 12	7 43.20	+13 58.6	1.647	2.623	3.1	20.6
1 22	7 32.54	+14 51.4	1.674	2.647	4.1	20.7
2 1	7 22.97	+15 45.4	1.731	2.670	8.0	21.0
2 11	7 15.50	+16 36.7	1.815	2.692	11.7	21.3
2 21	7 10.70	+17 22.8	1.921	2.713	14.9	21.5

372727 2009 YH_{6} 1 14.3 114°.67 0°.8/14.7 18

12 13	8 5.71	+17 6.3	2.221	3.044	11.9	21.5
12 23	7 59.69	+17 34.9	2.156	3.059	8.7	21.3
1 2	7 51.82	+18 10.5	2.116	3.073	5.0	21.1
1 12	7 42.85	+18 50.3	2.106	3.087	1.3	20.8
1 22	7 33.67	+19 30.6	2.126	3.101	3.0	21.0
2 1	7 25.24	+20 8.7	2.176	3.114	6.6	21.3
2 11	7 18.42	+20 42.3	2.254	3.127	9.9	21.5
2 21	7 13.73	+21 10.5	2.356	3.140	12.7	21.7

496708 2016 ED_{176} 1 14.3 318°.05 1°.4/13.6 17

12 13	8 4.07	+19 54.3	1.506	2.357	15.1	20.6
12 23	7 59.74	+21 13.2	1.417	2.336	11.1	20.3
1 2	7 52.47	+22 46.2	1.352	2.316	6.4	20.0
1 12	7 43.06	+24 26.1	1.314	2.296	1.7	19.6
1 22	7 32.74	+26 4.0	1.303	2.277	4.8	19.8
2 1	7 23.11	+27 31.5	1.320	2.258	10.0	20.0
2 11	7 15.67	+28 43.4	1.361	2.240	14.8	20.2
2 21	7 11.45	+29 38.2	1.422	2.223	18.8	20.5

456685 2007 RZ_{156} 1 14.3 91°.58 0°.9/14.0 16

12 13	8 10.71	+22 14.5	1.606	2.446	14.9	21.6
12 23	8 3.83	+22 41.7	1.553	2.466	10.8	21.4
1 2	7 54.34	+23 12.7	1.523	2.485	6.1	21.2
1 12	7 43.33	+23 42.5	1.521	2.503	1.4	20.9
1 22	7 32.18	+24 6.9	1.548	2.522	4.1	21.1
2 1	7 22.29	+24 23.3	1.603	2.540	8.6	21.4
2 11	7 14.79	+24 31.2	1.683	2.558	12.6	21.7
2 21	7 10.28	+24 31.8	1.785	2.575	15.9	22.0

143285 2003 AS_{26} 1 14.3 72°.77 1°.4/14.8 18

12 13	8 9.70	+16 57.5	1.682	2.512	14.8	19.7
12 23	8 2.80	+17 3.1	1.636	2.542	10.8	19.5
1 2	7 53.60	+17 16.8	1.614	2.571	6.3	19.3
1 12	7 43.18	+17 35.6	1.620	2.601	1.9	19.1
1 22	7 32.75	+17 56.4	1.655	2.630	3.7	19.2
2 1	7 23.56	+18 16.4	1.718	2.659	7.9	19.6
2 11	7 16.55	+18 33.9	1.808	2.687	11.7	19.8
2 21	7 12.26	+18 48.0	1.920	2.715	14.8	20.1

109361 2001 QX_{156} 1 14.3 46°.89 2°.3/15.1 18

12 13	8 6.57	+15 23.7	1.482	2.322	15.9	19.1
12 23	8 0.91	+15 21.7	1.429	2.338	11.8	18.9
1 2	7 52.71	+15 30.8	1.398	2.355	7.1	18.7
1 12	7 43.03	+15 48.5	1.393	2.372	2.8	18.5
1 22	7 33.19	+16 11.6	1.415	2.390	4.2	18.6
2 1	7 24.54	+16 36.7	1.464	2.408	8.7	18.9
2 11	7 18.19	+17 0.9	1.538	2.426	12.8	19.2
2 21	7 14.73	+17 22.4	1.634	2.444	16.3	19.5

454139 2013 DA_{11} 1 14.3 219°.21 1°.5/13.7 18

12 13	8 9.76	+23 53.3	1.925	2.759	13.0	22.1
12 23	8 3.19	+24 27.5	1.841	2.751	9.5	21.9
1 2	7 54.09	+25 4.8	1.783	2.743	5.5	21.6
1 12	7 43.33	+25 40.3	1.752	2.733	1.7	21.3
1 22	7 32.06	+26 9.4	1.752	2.723	4.1	21.5
2 1	7 21.58	+26 29.3	1.781	2.713	8.3	21.7
2 11	7 13.09	+26 39.4	1.836	2.702	12.2	21.9
2 21	7 7.34	+26 40.5	1.913	2.690	15.5	22.1

80053 1999 JY_{64} 1 14.3 251°.68 5°.0/11.1 18

12 13	8 6.63	+34 59.7	2.538	3.366	10.5	19.6
12 23	8 0.70	+36 19.0	2.459	3.356	8.0	19.4
1 2	7 52.62	+37 34.7	2.406	3.346	5.8	19.3
1 12	7 43.06	+38 40.4	2.383	3.336	5.0	19.2
1 22	7 32.98	+39 31.1	2.390	3.325	6.2	19.3
2 1	7 23.48	+40 4.1	2.425	3.315	8.6	19.4
2 11	7 15.57	+40 19.6	2.486	3.304	11.1	19.6
2 21	7 9.99	+40 20.0	2.570	3.293	13.3	19.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
261284 2005 UO_{146}			1 14.3	32°.52	0°.7/14.1 18	
	h m	° ′			°	m
12 13	8 6.70	+22 20.2	1.706	2.549	14.0	21.2
12 23	8 0.99	+22 36.4	1.638	2.553	10.2	21.0
1 2	7 52.79	+22 56.3	1.595	2.557	5.8	20.7
1 12	7 43.08	+23 16.0	1.579	2.561	1.2	20.4
1 22	7 33.06	+23 31.9	1.591	2.566	3.8	20.6
2 1	7 24.05	+23 41.7	1.631	2.571	8.3	20.9
2 11	7 17.17	+23 44.7	1.697	2.576	12.3	21.1
2 21	7 13.07	+23 41.6	1.784	2.581	15.7	21.4
78663 2002 TG_{89}			1 14.3	69°.64	4°.8/16.4 18	
12 13	8 3.63	+ 6 54.4	2.140	2.938	13.2	19.7
12 23	7 58.19	+ 6 29.6	2.074	2.951	10.3	19.5
1 2	7 50.97	+ 6 18.3	2.032	2.963	7.4	19.3
1 12	7 42.71	+ 6 20.9	2.017	2.975	5.1	19.2
1 22	7 34.27	+ 6 36.2	2.030	2.988	5.3	19.3
2 1	7 26.56	+ 7 2.0	2.073	3.000	7.7	19.4
2 11	7 20.39	+ 7 34.8	2.142	3.012	10.5	19.6
2 21	7 16.26	+ 8 11.4	2.234	3.025	13.1	19.8
169346 2001 TZ_{221}			1 14.3	94°.23	0°.1/14.3 18	
12 13	8 4.81	+21 1.7	2.402	3.231	10.9	20.6
12 23	7 58.95	+21 11.1	2.336	3.243	7.9	20.5
1 2	7 51.37	+21 23.5	2.296	3.255	4.5	20.3
1 12	7 42.78	+21 36.5	2.285	3.267	0.9	20.0
1 22	7 34.05	+21 48.0	2.305	3.279	2.8	20.2
2 1	7 26.04	+21 56.3	2.354	3.291	6.3	20.4
2 11	7 19.55	+22 0.9	2.432	3.303	9.4	20.6
2 21	7 15.05	+22 1.6	2.533	3.315	12.0	20.8
460652 2014 UM_{135}			1 14.3	89°.61	1°.3/14.8 18	
12 13	8 6.88	+17 17.9	1.859	2.690	13.6	21.4
12 23	8 0.83	+17 19.7	1.794	2.700	10.0	21.2
1 2	7 52.58	+17 28.8	1.753	2.711	5.9	20.9
1 12	7 43.03	+17 42.8	1.740	2.721	1.8	20.7
1 22	7 33.26	+17 59.1	1.756	2.731	3.5	20.8
2 1	7 24.42	+18 15.3	1.802	2.742	7.6	21.1
2 11	7 17.50	+18 29.8	1.873	2.752	11.3	21.4
2 21	7 13.09	+18 41.4	1.967	2.762	14.5	21.6
348580 2005 WZ_{87}			1 14.3	48°.71	1°.6/14.7 17	
12 13	8 10.97	+18 15.0	1.105	1.960	19.1	20.3
12 23	8 4.55	+18 3.8	1.066	1.984	13.9	20.1
1 2	7 54.89	+18 2.5	1.047	2.009	8.1	19.9
1 12	7 43.45	+18 7.6	1.052	2.034	2.3	19.6
1 22	7 32.07	+18 15.7	1.083	2.060	4.7	19.8
2 1	7 22.50	+18 23.8	1.140	2.086	10.2	20.2
2 11	7 16.03	+18 30.3	1.219	2.112	15.0	20.6
2 21	7 13.16	+18 34.3	1.317	2.139	18.8	20.9
347644 2001 TO_{45}			1 14.3	72°.23	7°.3/11.8 18	
12 13	8 13.69	+38 38.2	1.723	2.554	14.4	20.4
12 23	8 6.26	+39 46.8	1.681	2.576	11.3	20.3
1 2	7 55.83	+40 43.5	1.663	2.597	8.5	20.2
1 12	7 43.67	+41 19.7	1.671	2.618	7.3	20.1
1 22	7 31.40	+41 30.9	1.707	2.639	8.5	20.3
2 1	7 20.67	+41 17.2	1.769	2.660	11.1	20.5
2 11	7 12.72	+40 42.9	1.855	2.681	13.9	20.7
2 21	7 8.16	+39 54.4	1.960	2.702	16.3	20.9
386743 2010 AR_{116}			1 14.3	166°.35	4°.1/11.5 17	
12 13	8 6.94	+30 36.4	2.447	3.278	10.7	20.8
12 23	8 0.90	+32 14.9	2.375	3.279	8.0	20.6
1 2	7 52.73	+33 52.8	2.332	3.281	5.3	20.5
1 12	7 43.11	+35 23.2	2.318	3.282	4.1	20.4
1 22	7 32.99	+36 40.3	2.336	3.283	5.6	20.5
2 1	7 23.44	+37 40.3	2.384	3.283	8.2	20.6
2 11	7 15.47	+38 22.4	2.458	3.284	10.9	20.8
2 21	7 9.79	+38 48.5	2.555	3.284	13.2	21.0
84411 2002 TC_{187}			1 14.3	63°.81	1°.7/13.9 18	
12 13	8 10.96	+25 1.0	1.520	2.366	15.3	19.7
12 23	8 4.08	+25 15.8	1.472	2.387	11.0	19.5
1 2	7 54.50	+25 31.1	1.447	2.409	6.3	19.3
1 12	7 43.42	+25 42.1	1.450	2.431	2.0	19.1
1 22	7 32.29	+25 45.3	1.480	2.453	4.4	19.3
2 1	7 22.59	+25 39.5	1.538	2.475	8.9	19.6
2 11	7 15.44	+25 25.7	1.620	2.497	13.0	19.9
2 21	7 11.40	+25 6.1	1.724	2.519	16.3	20.2
89348 2001 VB_{67}			1 14.3	96°.50	0°.7/14.1 18	
12 13	8 9.87	+22 28.3	2.046	2.875	12.6	19.6
12 23	8 2.73	+22 46.5	1.994	2.901	9.0	19.4
1 2	7 53.55	+23 6.9	1.967	2.927	5.1	19.2
1 12	7 43.23	+23 25.9	1.969	2.952	1.1	19.0
1 22	7 32.86	+23 40.7	2.002	2.976	3.3	19.2
2 1	7 23.53	+23 49.5	2.065	3.000	7.2	19.5
2 11	7 16.12	+23 52.3	2.155	3.023	10.5	19.7
2 21	7 11.15	+23 49.7	2.268	3.046	13.3	20.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
322885 2001 XO_{37}			1 14.3	85°.11	6°.5/11.8 18	
	h m	° ′			°	m
12 13	8 12.50	+37 7.1	1.848	2.680	13.6	20.4
12 23	8 5.26	+38 17.7	1.802	2.699	10.5	20.2
1 2	7 55.25	+39 18.6	1.780	2.718	7.7	20.1
1 12	7 43.58	+40 1.9	1.786	2.736	6.5	20.0
1 22	7 31.72	+40 22.8	1.819	2.755	7.8	20.2
2 1	7 21.19	+40 20.6	1.880	2.773	10.4	20.3
2 11	7 13.19	+39 58.6	1.964	2.791	13.2	20.6
2 21	7 8.35	+39 22.2	2.069	2.809	15.6	20.8
522482 2016 EU_{144}			1 14.3	148°.09	4°.1/12.5 18	
12 13	8 8.11	+33 33.7	2.401	3.230	11.0	21.0
12 23	8 1.59	+34 15.0	2.334	3.235	8.2	20.9
1 2	7 53.00	+34 51.1	2.292	3.239	5.6	20.7
1 12	7 43.15	+35 17.2	2.280	3.244	4.1	20.6
1 22	7 33.05	+35 29.8	2.297	3.248	5.4	20.7
2 1	7 23.78	+35 28.0	2.344	3.252	7.9	20.9
2 11	7 16.29	+35 12.8	2.417	3.255	10.6	21.1
2 21	7 11.15	+34 47.1	2.512	3.259	13.0	21.2
457069 2008 EJ_{53}			1 14.3	296°.62	4°.6/16.4 17	
12 13	8 3.96	+ 7 44.1	1.692	2.507	15.4	21.2
12 23	7 59.25	+ 7 57.7	1.596	2.485	12.1	20.9
1 2	7 52.03	+ 8 30.9	1.522	2.464	8.3	20.6
1 12	7 43.02	+ 9 23.3	1.473	2.442	5.1	20.4
1 22	7 33.29	+10 31.7	1.452	2.420	5.4	20.4
2 1	7 24.13	+11 50.9	1.459	2.399	9.1	20.5
2 11	7 16.79	+13 14.3	1.492	2.377	13.3	20.7
2 21	7 12.14	+14 36.1	1.546	2.356	17.1	20.9
302833 2003 FP_{18}			1 14.4	216°.73	1°.5/14.9 18	
12 13	8 8.83	+16 20.9	1.759	2.588	14.3	21.9
12 23	8 2.58	+16 30.6	1.677	2.582	10.6	21.7
1 2	7 53.80	+16 49.6	1.618	2.575	6.4	21.4
1 12	7 43.34	+17 15.4	1.587	2.568	2.1	21.1
1 22	7 32.38	+17 44.5	1.586	2.561	3.8	21.2
2 1	7 22.24	+18 13.8	1.613	2.553	8.3	21.5
2 11	7 14.12	+18 40.5	1.666	2.544	12.5	21.7
2 21	7 8.77	+19 3.4	1.741	2.535	16.1	21.9
394070 2005 YW_{146}			1 14.4	112°.21	1°.8/13.7 17	
12 13	8 11.71	+23 29.3	1.622	2.461	14.8	21.4
12 23	8 4.67	+24 15.6	1.565	2.478	10.7	21.2
1 2	7 54.92	+25 5.1	1.534	2.494	6.1	21.0
1 12	7 43.53	+25 51.7	1.529	2.510	2.0	20.8
1 22	7 31.90	+26 29.9	1.554	2.526	4.5	21.0
2 1	7 21.51	+26 56.5	1.607	2.541	8.9	21.3
2 11	7 13.54	+27 11.3	1.686	2.555	12.9	21.5
2 21	7 8.65	+27 15.8	1.786	2.569	16.2	21.8
151221 2001 YS_{76}			1 14.4	210°.01	2°.4/13.4 18	
12 13	8 7.16	+25 54.7	1.927	2.767	12.8	20.0
12 23	8 1.26	+26 37.2	1.853	2.766	9.3	19.8
1 2	7 52.98	+27 21.2	1.805	2.765	5.5	19.5
1 12	7 43.18	+28 1.2	1.785	2.764	2.4	19.3
1 22	7 32.98	+28 32.8	1.794	2.763	4.5	19.5
2 1	7 23.64	+28 53.2	1.832	2.762	8.3	19.7
2 11	7 16.26	+29 2.0	1.895	2.760	11.9	19.9
2 21	7 11.53	+29 0.6	1.981	2.759	15.0	20.1
420647 2012 JC_{11}			1 14.4	201°.27	1°.2/14.9 18	
12 13	8 4.88	+16 24.7	2.012	2.841	12.8	21.4
12 23	7 59.40	+16 45.7	1.935	2.840	9.4	21.2
1 2	7 51.84	+17 15.3	1.882	2.839	5.6	21.0
1 12	7 42.95	+17 50.8	1.858	2.839	1.7	20.7
1 22	7 33.71	+18 28.9	1.863	2.838	3.3	20.8
2 1	7 25.20	+19 6.3	1.897	2.837	7.3	21.1
2 11	7 18.37	+19 40.3	1.958	2.836	11.0	21.3
2 21	7 13.87	+20 9.4	2.042	2.835	14.1	21.5
431356 2007 CY_{50}			1 14.4	326°.00	16°.5/24.1 18	
12 13	8 4.87	−14 59.4	1.059	1.807	26.8	20.9
12 23	8 0.88	−15 6.0	0.987	1.799	24.1	20.7
1 2	7 53.38	−14 16.9	0.928	1.792	21.0	20.4
1 12	7 43.34	−12 21.8	0.885	1.785	18.1	20.2
1 22	7 32.37	− 9 19.5	0.862	1.779	16.5	20.1
2 1	7 22.43	− 5 21.7	0.861	1.774	17.2	20.1
2 11	7 15.33	− 0 51.8	0.883	1.769	20.0	20.3
2 21	7 12.17	+ 3 43.2	0.926	1.765	23.6	20.5
298795 2004 QG_{6}			1 14.4	244°.86	0°.9/14.1 18	
12 13	8 11.77	+23 29.6	1.644	2.483	14.7	21.5
12 23	8 5.00	+23 33.0	1.559	2.471	10.8	21.2
1 2	7 55.31	+23 38.3	1.498	2.459	6.2	20.9
1 12	7 43.67	+23 41.4	1.464	2.446	1.4	20.6
1 22	7 31.45	+23 39.0	1.459	2.433	4.2	20.7
2 1	7 20.22	+23 29.5	1.482	2.420	9.2	21.0
2 11	7 11.33	+23 13.2	1.531	2.406	13.6	21.2
2 21	7 5.63	+22 52.0	1.600	2.392	17.4	21.4

150500 2000 QD_{125} 1 14.4 193°.15 1°.3/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 7.43	+17 39.1	2.221	3.042	12.0	20.3
12 23	8 1.05	+17 31.0	2.139	3.041	8.8	20.1
1 2	7 52.71	+17 28.2	2.083	3.039	5.2	19.8
1 12	7 43.13	+17 29.0	2.056	3.037	1.7	19.6
1 22	7 33.27	+17 31.8	2.059	3.034	3.2	19.7
2 1	7 24.12	+17 35.0	2.093	3.031	6.9	19.9
2 11	7 16.59	+17 37.8	2.154	3.027	10.3	20.1
2 21	7 11.28	+17 39.3	2.239	3.023	13.3	20.3

415124 2012 DX_{29} 1 14.4 82°.09 6°.6/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.20	+37 40.3	1.802	2.634	13.9	21.0
12 23	8 5.24	+38 33.3	1.741	2.638	10.8	20.8
1 2	7 55.35	+39 16.5	1.704	2.643	8.0	20.6
1 12	7 43.65	+39 42.0	1.694	2.647	6.6	20.6
1 22	7 31.66	+39 45.2	1.712	2.651	7.9	20.6
2 1	7 20.95	+39 25.4	1.756	2.655	10.7	20.8
2 11	7 12.83	+38 46.5	1.824	2.659	13.7	21.0
2 21	7 7.98	+37 53.9	1.913	2.663	16.4	21.2

320631 2008 CA_{75} 1 14.4 203°.45 2°.7/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.20	+11 25.0	2.021	2.835	13.3	20.7
12 23	7 59.64	+11 49.8	1.939	2.833	10.0	20.4
1 2	7 52.01	+12 27.9	1.882	2.831	6.4	20.2
1 12	7 43.02	+13 17.2	1.852	2.828	3.1	20.0
1 22	7 33.63	+14 14.0	1.853	2.825	3.8	20.1
2 1	7 24.90	+15 14.2	1.882	2.821	7.4	20.3
2 11	7 17.80	+16 13.5	1.939	2.818	11.0	20.5
2 21	7 13.00	+17 8.9	2.020	2.814	14.2	20.7

217781 2000 SR_{56} 1 14.4 133°.19 4°.8/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.41	+34 45.3	2.144	2.972	12.1	20.4
12 23	8 4.15	+35 25.1	2.082	2.982	9.2	20.2
1 2	7 54.52	+35 58.0	2.046	2.991	6.3	20.0
1 12	7 43.48	+36 18.3	2.038	2.999	4.8	19.9
1 22	7 32.24	+36 22.3	2.059	3.008	6.0	20.0
2 1	7 22.06	+36 9.4	2.109	3.016	8.8	20.2
2 11	7 13.99	+35 42.0	2.185	3.023	11.6	20.4
2 21	7 8.63	+35 3.9	2.283	3.031	14.1	20.6

75176 1999 VV_{155} 1 14.4 141°.68 1°.2/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.25	+23 35.6	2.167	3.001	11.8	20.6
12 23	8 0.29	+24 3.0	2.095	3.005	8.5	20.4
1 2	7 52.31	+24 32.7	2.048	3.009	4.9	20.2
1 12	7 43.06	+25 0.8	2.031	3.012	1.4	19.9
1 22	7 33.54	+25 24.0	2.043	3.016	3.5	20.1
2 1	7 24.80	+25 40.2	2.086	3.019	7.2	20.3
2 11	7 17.76	+25 48.8	2.154	3.022	10.6	20.5
2 21	7 13.02	+25 50.2	2.247	3.025	13.4	20.7

250145 2002 RD_{136} 1 14.4 125°.15 0°.4/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.61	+18 5.5	2.122	2.945	12.4	22.0
12 23	8 1.88	+18 38.2	2.059	2.963	9.0	21.8
1 2	7 53.14	+19 17.5	2.023	2.981	5.2	21.6
1 12	7 43.22	+19 59.7	2.015	2.997	1.1	21.4
1 22	7 33.10	+20 41.0	2.039	3.014	3.1	21.6
2 1	7 23.83	+21 18.5	2.092	3.029	7.0	21.8
2 11	7 16.32	+21 50.1	2.174	3.044	10.4	22.1
2 21	7 11.12	+22 15.4	2.279	3.058	13.2	22.3

149935 2005 SQ_{193} 1 14.4 223°.89 1°.6/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.98	+24 58.3	2.204	3.035	11.7	20.9
12 23	8 1.66	+25 26.3	2.118	3.027	8.5	20.7
1 2	7 53.16	+25 55.7	2.058	3.018	5.0	20.5
1 12	7 43.25	+26 22.4	2.028	3.008	1.8	20.2
1 22	7 32.92	+26 43.0	2.027	2.998	3.8	20.4
2 1	7 23.30	+26 55.1	2.057	2.988	7.5	20.6
2 11	7 15.38	+26 58.4	2.114	2.977	10.9	20.8
2 21	7 9.84	+26 54.1	2.193	2.965	13.9	21.0

497599 2006 KL_{52} 1 14.4 219°.72 0°.5/14.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.59	+21 29.6	2.707	3.532	10.0	22.7
12 23	7 58.85	+21 58.5	2.618	3.524	7.2	22.6
1 2	7 51.42	+22 30.8	2.555	3.515	4.1	22.3
1 12	7 42.91	+23 3.8	2.523	3.505	0.9	22.1
1 22	7 34.06	+23 34.5	2.521	3.495	2.8	22.2
2 1	7 25.71	+24 0.8	2.551	3.485	6.0	22.4
2 11	7 18.64	+24 21.4	2.609	3.474	9.1	22.6
2 21	7 13.41	+24 36.0	2.691	3.463	11.6	22.8

46477 4266 $T\text{-}_1$ 1 14.4 246°.84 0°.8/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.77	+17 51.8	1.863	2.693	13.6	20.4
12 23	8 1.82	+18 9.8	1.773	2.680	10.0	20.1
1 2	7 53.41	+18 36.0	1.708	2.666	5.9	19.9
1 12	7 43.33	+19 7.4	1.670	2.652	1.5	19.5
1 22	7 32.68	+19 40.3	1.662	2.637	3.6	19.6
2 1	7 22.73	+20 11.3	1.682	2.622	8.1	19.9
2 11	7 14.65	+20 38.0	1.730	2.606	12.2	20.1
2 21	7 9.22	+20 59.5	1.799	2.591	15.8	20.3

454146 2013 EX_{35} 1 14.4 222°.31 3°.2/15.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.92	+10 54.6	1.762	2.579	14.8	21.8
12 23	8 1.20	+11 16.4	1.678	2.574	11.3	21.6
1 2	7 53.05	+11 53.9	1.618	2.567	7.3	21.3
1 12	7 43.26	+12 45.0	1.586	2.560	3.7	21.1
1 22	7 32.94	+13 45.7	1.581	2.553	4.4	21.1
2 1	7 23.35	+14 51.0	1.606	2.546	8.4	21.3
2 11	7 15.66	+15 55.9	1.657	2.538	12.5	21.6
2 21	7 10.62	+16 56.5	1.731	2.530	16.0	21.8

460073 2014 OV_{262} 1 14.4 213°.38 1°.9/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.01	+23 30.1	1.721	2.562	14.0	21.5
12 23	8 2.90	+24 20.1	1.645	2.558	10.2	21.3
1 2	7 54.08	+25 14.8	1.593	2.554	5.9	21.0
1 12	7 43.46	+26 8.4	1.569	2.550	2.0	20.7
1 22	7 32.32	+26 54.7	1.574	2.546	4.5	20.9
2 1	7 22.07	+27 29.9	1.608	2.541	9.0	21.2
2 11	7 14.00	+27 52.7	1.666	2.536	13.0	21.4
2 21	7 8.90	+28 4.1	1.747	2.530	16.5	21.6

437317 2013 PW_2 1 14.4 123°.23 14°.5/22.7 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.77	−13 4.1	1.199	1.938	24.7	20.7
12 23	8 3.26	−13 6.6	1.134	1.943	21.7	20.5
1 2	7 54.50	−12 20.7	1.083	1.948	18.5	20.3
1 12	7 43.56	−10 40.2	1.051	1.952	15.8	20.1
1 22	7 32.02	− 8 7.1	1.041	1.957	14.5	20.1
2 1	7 21.66	− 4 52.8	1.055	1.961	15.5	20.1
2 11	7 14.01	− 1 16.2	1.093	1.965	18.1	20.3
2 21	7 9.96	+ 2 22.9	1.153	1.969	21.4	20.5

330017 2005 UQ_{83} 1 14.4 355°.43 0°.8/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.77	+18 18.8	1.739	2.577	14.0	20.9
12 23	8 0.34	+18 29.1	1.665	2.576	10.3	20.6
1 2	7 52.51	+18 46.8	1.616	2.575	6.0	20.4
1 12	7 43.16	+19 9.2	1.593	2.575	1.5	20.1
1 22	7 33.45	+19 32.9	1.599	2.574	3.6	20.2
2 1	7 24.61	+19 54.9	1.632	2.574	8.1	20.5
2 11	7 17.77	+20 13.3	1.692	2.574	12.1	20.7
2 21	7 13.59	+20 27.2	1.773	2.575	15.6	21.0

170454 2003 UL_{183} 1 14.4 216°.97 0°.2/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.78	+19 20.6	2.258	3.087	11.5	20.4
12 23	7 59.21	+19 42.0	2.177	3.084	8.4	20.2
1 2	7 51.72	+20 8.8	2.121	3.080	4.8	20.0
1 12	7 43.00	+20 38.3	2.095	3.077	1.0	19.7
1 22	7 33.96	+21 7.4	2.098	3.073	3.0	19.9
2 1	7 25.56	+21 33.6	2.132	3.070	6.7	20.1
2 11	7 18.69	+21 55.2	2.192	3.066	10.2	20.3
2 21	7 13.95	+22 11.6	2.277	3.062	13.1	20.5

199158 2005 YG_{171} 1 14.4 319°.81 1°.8/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.12	+15 57.2	1.314	2.162	17.0	20.3
12 23	8 1.32	+16 9.6	1.238	2.152	12.7	20.0
1 2	7 53.41	+16 35.5	1.183	2.143	7.7	19.7
1 12	7 43.38	+17 11.9	1.153	2.134	2.5	19.3
1 22	7 32.68	+17 53.9	1.149	2.126	4.5	19.4
2 1	7 22.99	+18 36.6	1.171	2.117	10.0	19.7
2 11	7 15.82	+19 15.7	1.217	2.110	15.0	20.0
2 21	7 12.07	+19 48.7	1.281	2.103	19.3	20.2

304798 2007 PF_8 1 14.4 135°.95 2°.0/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.42	+26 7.2	1.825	2.659	13.6	20.9
12 23	8 5.01	+26 28.0	1.761	2.671	9.9	20.7
1 2	7 55.08	+26 48.3	1.723	2.682	5.8	20.5
1 12	7 43.65	+27 3.3	1.712	2.692	2.2	20.3
1 22	7 32.00	+27 9.5	1.732	2.702	4.3	20.4
2 1	7 21.50	+27 5.5	1.780	2.711	8.4	20.7
2 11	7 13.25	+26 52.4	1.855	2.720	12.1	20.9
2 21	7 7.89	+26 32.4	1.951	2.728	15.2	21.2

183924 2004 CM_{122} 1 14.4 82°.24 3°.7/16.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.76	+ 8 53.8	1.710	2.523	15.4	21.1
12 23	8 0.84	+ 9 19.5	1.653	2.543	11.7	20.9
1 2	7 52.68	+10 2.3	1.619	2.563	7.7	20.7
1 12	7 43.18	+10 59.5	1.611	2.583	4.3	20.6
1 22	7 33.49	+12 6.5	1.632	2.602	4.6	20.6
2 1	7 24.77	+13 17.7	1.682	2.621	8.1	20.9
2 11	7 18.03	+14 27.9	1.759	2.640	11.8	21.2
2 21	7 13.87	+15 33.1	1.858	2.659	15.0	21.4

191845 2004 VG_{34} 1 14.4 288°.84 0°.2/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.15	+19 21.6	1.994	2.828	12.6	20.3
12 23	7 59.68	+19 44.8	1.917	2.827	9.2	20.1
1 2	7 52.06	+20 14.3	1.865	2.825	5.3	19.8
1 12	7 43.08	+20 46.8	1.841	2.824	1.1	19.5
1 22	7 33.75	+21 18.9	1.847	2.822	3.3	19.7
2 1	7 25.17	+21 47.4	1.882	2.821	7.4	20.0
2 11	7 18.32	+22 10.6	1.943	2.820	11.1	20.2
2 21	7 13.86	+22 27.9	2.027	2.818	14.2	20.4

195649 2002 NB_{44} 1 14.4 83°.51 0°.6/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 5.79	+18 26.2	2.163	2.991	12.0	20.6
12 23	7 59.79	+18 40.6	2.104	3.010	8.7	20.4
1 2	7 51.95	+19 0.6	2.071	3.029	5.0	20.2
1 12	7 43.04	+19 23.5	2.066	3.048	1.2	20.0
1 22	7 33.99	+19 46.7	2.091	3.067	3.0	20.1
2 1	7 25.79	+20 7.7	2.146	3.085	6.7	20.4
2 11	7 19.23	+20 25.3	2.229	3.104	10.0	20.6
2 21	7 14.85	+20 38.8	2.335	3.122	12.7	20.9

400339 2007 UL_{82} 1 14.4 157°.47 0°.3/14.3 18

12 13	8 9.71	+20 53.4	1.999	2.827	12.8	22.2
12 23	8 2.90	+21 13.9	1.927	2.834	9.3	22.0
1 2	7 53.85	+21 38.7	1.882	2.841	5.3	21.8
1 12	7 43.43	+22 4.2	1.865	2.847	1.0	21.5
1 22	7 32.71	+22 26.9	1.878	2.852	3.4	21.7
2 1	7 22.89	+22 44.6	1.921	2.857	7.5	21.9
2 11	7 14.96	+22 56.3	1.991	2.861	11.2	22.2
2 21	7 9.56	+23 2.1	2.084	2.865	14.3	22.4

29703 1998 YL_{7} 1 14.4 83°.48 3°.4/13.2 18

12 13	8 12.28	+26 40.3	1.425	2.273	16.0	18.0
12 23	8 5.44	+27 40.3	1.376	2.292	11.6	17.8
1 2	7 55.52	+28 40.6	1.350	2.310	6.9	17.6
1 12	7 43.77	+29 32.9	1.352	2.329	3.5	17.4
1 22	7 31.80	+30 10.9	1.380	2.347	5.8	17.6
2 1	7 21.30	+30 31.5	1.436	2.366	10.2	17.9
2 11	7 13.60	+30 36.1	1.516	2.384	14.2	18.2
2 21	7 9.34	+30 27.9	1.616	2.401	17.5	18.5

451002 2008 TU_{188} 1 14.4 154°.75 1°.8/14.9 18

12 13	8 11.11	+16 20.2	1.832	2.654	14.1	22.0
12 23	8 3.99	+16 13.6	1.761	2.663	10.5	21.8
1 2	7 54.50	+16 14.6	1.715	2.670	6.3	21.6
1 12	7 43.57	+16 21.4	1.698	2.677	2.3	21.3
1 22	7 32.36	+16 31.5	1.709	2.683	3.8	21.5
2 1	7 22.14	+16 43.0	1.751	2.689	8.0	21.7
2 11	7 13.95	+16 54.1	1.819	2.694	11.8	22.0
2 21	7 8.45	+17 3.8	1.910	2.698	15.1	22.2

265870 2005 YD_{203} 1 14.4 337°.81 0°.8/14.7 18

12 13	8 3.43	+17 24.5	1.596	2.441	14.7	20.3
12 23	7 58.93	+17 52.5	1.518	2.432	10.9	20.0
1 2	7 51.87	+18 31.1	1.462	2.423	6.4	19.7
1 12	7 43.09	+19 17.0	1.433	2.415	1.6	19.4
1 22	7 33.79	+20 5.1	1.431	2.408	3.8	19.5
2 1	7 25.31	+20 51.0	1.457	2.401	8.6	19.8
2 11	7 18.89	+21 31.1	1.507	2.395	13.0	20.0
2 21	7 15.29	+22 3.6	1.579	2.390	16.7	20.3

313122 2000 YU_{137} 1 14.4 46°.21 14°.0/14.7 17

12 13	8 33.40	+49 6.3	0.951	1.781	23.5	19.2
12 23	8 22.75	+49 31.2	0.909	1.791	19.7	18.9
1 2	8 5.85	+49 20.3	0.884	1.801	16.1	18.8
1 12	7 45.71	+48 17.3	0.879	1.812	14.1	18.7
1 22	7 26.36	+46 18.8	0.896	1.824	14.7	18.8
2 1	7 11.31	+43 37.3	0.935	1.836	17.5	19.0
2 11	7 2.28	+40 34.0	0.995	1.848	21.1	19.3
2 21	6 59.22	+37 27.7	1.073	1.861	24.4	19.5

177920 2005 SG_{225} 1 14.4 128°.48 0°.5/14.7 18

12 13	8 2.14	+17 47.5	2.866	3.687	9.6	20.4
12 23	7 56.92	+18 16.9	2.792	3.695	7.0	20.2
1 2	7 50.26	+18 51.7	2.745	3.702	4.0	20.0
1 12	7 42.74	+19 29.4	2.728	3.710	1.0	19.8
1 22	7 35.01	+20 7.4	2.742	3.717	2.4	19.9
2 1	7 27.80	+20 43.5	2.787	3.724	5.4	20.1
2 11	7 21.75	+21 16.0	2.861	3.731	8.2	20.3
2 21	7 17.33	+21 43.8	2.960	3.738	10.5	20.5

356110 2009 FS_{19} 1 14.4 236°.91 3°.2/15.6 18

12 13	8 6.70	+12 1.6	1.788	2.608	14.5	21.2
12 23	8 1.02	+12 1.7	1.704	2.601	11.0	20.9
1 2	7 52.95	+12 14.6	1.644	2.594	7.1	20.7
1 12	7 43.30	+12 39.1	1.611	2.586	3.7	20.4
1 22	7 33.17	+13 12.6	1.607	2.578	4.5	20.5
2 1	7 23.79	+13 51.7	1.631	2.570	8.3	20.7
2 11	7 16.29	+14 32.6	1.681	2.562	12.3	20.9
2 21	7 11.39	+15 12.2	1.753	2.553	15.8	21.1

161456 2004 AH_{26} 1 14.4 78°.64 2°.0/15.5 18

12 13	8 3.89	+13 0.0	2.119	2.938	12.6	20.1
12 23	7 58.53	+13 28.7	2.051	2.949	9.4	19.9
1 2	7 51.31	+14 8.4	2.009	2.961	5.8	19.7
1 12	7 42.95	+14 56.6	1.995	2.973	2.5	19.5
1 22	7 34.36	+15 49.5	2.011	2.984	3.3	19.6
2 1	7 26.48	+16 43.4	2.056	2.996	6.8	19.9
2 11	7 20.18	+17 35.0	2.129	3.008	10.2	20.1
2 21	7 16.00	+18 21.8	2.225	3.019	13.1	20.3

332343 2007 DE_{3} 1 14.4 322°.01 3°.4/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 5.37	+26 38.9	1.516	2.371	14.8	20.4
12 23	8 0.77	+27 34.5	1.432	2.352	10.9	20.1
1 2	7 53.14	+28 33.8	1.372	2.333	6.6	19.8
1 12	7 43.38	+29 29.3	1.338	2.315	3.5	19.6
1 22	7 32.85	+30 14.0	1.330	2.298	5.9	19.7
2 1	7 23.18	+30 43.2	1.349	2.281	10.4	19.9
2 11	7 15.89	+30 55.7	1.391	2.265	14.8	20.1
2 21	7 11.91	+30 53.5	1.453	2.250	18.6	20.3

397803 2008 QQ_{38} 1 14.4 161°.23 2°.1/13.8 18

12 13	8 13.76	+26 18.4	1.749	2.583	14.1	21.7
12 23	8 6.17	+26 35.7	1.679	2.589	10.3	21.5
1 2	7 55.85	+26 52.3	1.635	2.594	6.0	21.2
1 12	7 43.86	+27 3.1	1.619	2.599	2.3	21.0
1 22	7 31.58	+27 4.6	1.632	2.603	4.5	21.1
2 1	7 20.47	+26 55.4	1.675	2.606	8.8	21.4
2 11	7 11.74	+26 37.0	1.743	2.609	12.7	21.6
2 21	7 6.07	+26 11.8	1.833	2.611	16.0	21.9

330071 2005 VK_{73} 1 14.4 2°.15 6°.8/11.0 18

12 13	8 6.07	+32 23.6	1.445	2.302	15.3	19.5
12 23	8 1.45	+34 14.3	1.386	2.301	11.6	19.2
1 2	7 53.56	+36 2.9	1.350	2.300	8.2	19.0
1 12	7 43.46	+37 38.1	1.340	2.301	6.8	19.0
1 22	7 32.70	+38 50.0	1.356	2.302	8.8	19.1
2 1	7 23.08	+39 33.9	1.397	2.304	12.3	19.3
2 11	7 16.17	+39 50.7	1.460	2.308	15.8	19.5
2 21	7 12.86	+39 45.3	1.542	2.312	18.9	19.7

343198 2009 VU_{37} 1 14.4 85°.85 3°.0/13.4 17

12 13	8 13.69	+25 48.0	1.318	2.168	16.9	21.0
12 23	8 6.59	+26 39.3	1.271	2.187	12.3	20.8
1 2	7 56.22	+27 31.8	1.246	2.207	7.2	20.5
1 12	7 43.93	+28 17.1	1.247	2.226	3.2	20.3
1 22	7 31.46	+28 48.8	1.276	2.246	5.7	20.5
2 1	7 20.62	+29 4.3	1.331	2.264	10.4	20.9
2 11	7 12.79	+29 4.8	1.410	2.283	14.7	21.2
2 21	7 8.60	+28 53.8	1.508	2.301	18.3	21.4

249551 2010 JM_{72} 1 14.4 16°.05 3°.8/16.3 18

12 13	8 1.93	+ 8 39.5	2.135	2.943	12.9	20.3
12 23	7 57.16	+ 8 46.8	2.058	2.945	9.9	20.2
1 2	7 50.56	+ 9 7.9	2.006	2.947	6.8	20.0
1 12	7 42.83	+ 9 41.8	1.981	2.949	4.1	19.8
1 22	7 34.81	+10 25.9	1.985	2.952	4.4	19.8
2 1	7 27.43	+11 17.0	2.018	2.954	7.2	20.0
2 11	7 21.52	+12 11.1	2.078	2.957	10.4	20.2
2 21	7 17.65	+13 4.5	2.161	2.961	13.2	20.4

383684 2007 TU_{261} 1 14.4 30°.67 3°.9/15.9 18

12 13	8 3.09	+ 9 41.6	2.142	2.951	12.8	20.5
12 23	7 57.95	+ 9 21.6	2.068	2.955	9.9	20.3
1 2	7 50.98	+ 9 13.1	2.019	2.959	6.7	20.1
1 12	7 42.91	+ 9 16.0	1.997	2.963	4.2	19.9
1 22	7 34.60	+ 9 29.2	2.003	2.968	4.6	20.0
2 1	7 26.97	+ 9 50.6	2.039	2.972	7.3	20.1
2 11	7 20.85	+10 17.3	2.101	2.977	10.4	20.3
2 21	7 16.79	+10 46.5	2.186	2.982	13.2	20.5

182050 2000 DF_{40} 1 14.4 257°.12 6°.6/17.5 18

12 13	8 4.58	+ 1 52.5	1.910	2.692	15.1	20.6
12 23	7 59.39	+ 1 50.8	1.819	2.681	12.3	20.4
1 2	7 52.01	+ 2 10.0	1.751	2.669	9.3	20.2
1 12	7 43.15	+ 2 51.2	1.708	2.657	7.0	20.0
1 22	7 33.78	+ 3 52.5	1.694	2.644	6.9	20.0
2 1	7 24.99	+ 5 9.7	1.707	2.632	9.2	20.1
2 11	7 17.83	+ 6 36.5	1.746	2.619	12.4	20.2
2 21	7 13.04	+ 8 6.5	1.809	2.606	15.5	20.4

99483 2002 CE_{166} 1 14.4 168°.60 1°.2/13.8 18

12 13	8 6.71	+23 18.5	2.127	2.961	12.0	20.0
12 23	8 0.74	+23 51.5	2.053	2.963	8.7	19.8
1 2	7 52.66	+24 27.3	2.004	2.964	5.0	19.6
1 12	7 43.26	+25 1.9	1.984	2.966	1.4	19.3
1 22	7 33.53	+25 31.6	1.995	2.967	3.6	19.5
2 1	7 24.57	+25 53.8	2.034	2.968	7.3	19.7
2 11	7 17.34	+26 7.7	2.101	2.969	10.8	20.0
2 21	7 12.45	+26 13.7	2.190	2.969	13.7	20.2

29279 1993 FC_{35} 1 14.4 164°.59 1°.4/14.9 18

12 13	8 9.80	+16 8.0	1.876	2.698	13.8	20.0
12 23	8 3.09	+16 25.4	1.802	2.704	10.2	19.8
1 2	7 54.05	+16 51.9	1.754	2.710	6.1	19.6
1 12	7 43.54	+17 24.4	1.733	2.714	1.9	19.3
1 22	7 32.68	+17 59.4	1.743	2.718	3.5	19.4
2 1	7 22.70	+18 33.6	1.782	2.721	7.8	19.7
2 11	7 14.66	+19 4.4	1.848	2.723	11.7	19.9
2 21	7 9.23	+19 30.6	1.937	2.724	15.0	20.1

432528 2010 GZ_{116} 1 14.4 229°.41 6°.7/17.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 2.10	− 0 33.7	2.478	3.237	12.7	21.6
12 23	7 57.07	− 1 8.5	2.395	3.235	10.6	21.4
1 2	7 50.45	− 1 27.2	2.337	3.232	8.5	21.3
1 12	7 42.83	− 1 28.3	2.304	3.230	7.0	21.2
1 22	7 34.93	− 1 11.8	2.299	3.228	6.9	21.2
2 1	7 27.56	− 0 39.6	2.323	3.225	8.3	21.2
2 11	7 21.43	+ 0 4.9	2.372	3.223	10.4	21.4
2 21	7 17.08	+ 0 57.4	2.445	3.220	12.6	21.5

78234 2002 OT_{17} 1 14.4 172°.64 2°.4/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.03	+13 49.7	2.399	3.212	11.5	19.7
12 23	7 59.21	+13 35.3	2.319	3.213	8.6	19.6
1 2	7 51.67	+13 28.3	2.265	3.215	5.5	19.4
1 12	7 43.07	+13 27.9	2.240	3.216	2.7	19.2
1 22	7 34.24	+13 33.0	2.246	3.216	3.4	19.2
2 1	7 26.03	+13 42.1	2.281	3.217	6.5	19.4
2 11	7 19.25	+13 53.4	2.344	3.217	9.6	19.6
2 21	7 14.41	+14 5.6	2.431	3.217	12.3	19.8

290810 2005 VW_{98} 1 14.4 119°.65 2°.0/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.43	+27 37.2	1.895	2.730	13.2	20.2
12 23	8 4.29	+27 30.3	1.823	2.732	9.6	20.0
1 2	7 54.71	+27 20.2	1.776	2.735	5.7	19.8
1 12	7 43.68	+27 3.6	1.757	2.737	2.2	19.6
1 22	7 32.45	+26 38.5	1.768	2.740	4.1	19.7
2 1	7 22.30	+26 5.0	1.809	2.742	8.1	19.9
2 11	7 14.32	+25 25.1	1.876	2.744	11.8	20.2
2 21	7 9.12	+24 41.5	1.965	2.746	15.0	20.4

108610 2001 MP_{21} 1 14.4 23°.23 1°.3/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.40	+22 25.1	2.073	2.911	12.1	19.1
12 23	7 59.16	+23 16.4	2.000	2.913	8.7	18.9
1 2	7 51.81	+24 12.5	1.953	2.914	5.0	18.7
1 12	7 43.13	+25 8.5	1.935	2.916	1.5	18.5
1 22	7 34.09	+25 59.8	1.946	2.919	3.7	18.6
2 1	7 25.78	+26 42.7	1.987	2.921	7.5	18.9
2 11	7 19.15	+27 15.6	2.054	2.923	10.9	19.1
2 21	7 14.85	+27 38.4	2.144	2.926	13.9	19.3

408549 2013 KM_{5} 1 14.4 255°.27 0°.6/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.89	+21 7.3	1.790	2.627	13.7	21.4
12 23	8 2.08	+21 38.7	1.704	2.616	10.0	21.2
1 2	7 53.68	+22 16.3	1.643	2.604	5.8	20.9
1 12	7 43.54	+22 55.7	1.609	2.591	1.2	20.6
1 22	7 32.81	+23 32.4	1.604	2.579	3.8	20.7
2 1	7 22.85	+24 2.6	1.628	2.566	8.5	21.0
2 11	7 14.88	+24 24.5	1.678	2.553	12.6	21.2
2 21	7 9.71	+24 38.1	1.749	2.540	16.2	21.4

319685 2006 TB_{91} 1 14.4 354°.27 5°.2/16.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.87	+ 8 54.9	1.667	2.483	15.5	20.7
12 23	8 0.44	+ 8 20.5	1.593	2.483	12.1	20.5
1 2	7 52.63	+ 8 0.6	1.542	2.482	8.5	20.3
1 12	7 43.31	+ 7 56.2	1.516	2.481	5.6	20.1
1 22	7 33.61	+ 8 6.3	1.518	2.481	6.0	20.1
2 1	7 24.77	+ 8 28.6	1.547	2.481	9.2	20.3
2 11	7 17.90	+ 8 59.4	1.601	2.481	12.9	20.6
2 21	7 13.68	+ 9 34.4	1.676	2.481	16.2	20.8

277173 2005 OY_{1} 1 14.4 112°.14 3°.6/13.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.47	+26 40.7	1.510	2.353	15.5	21.0
12 23	8 6.31	+27 51.5	1.457	2.370	11.3	20.8
1 2	7 56.09	+29 3.3	1.428	2.386	6.8	20.6
1 12	7 43.99	+30 7.2	1.426	2.402	3.6	20.4
1 22	7 31.57	+30 56.2	1.452	2.417	5.9	20.6
2 1	7 20.50	+31 26.8	1.506	2.432	10.1	20.9
2 11	7 12.15	+31 39.8	1.585	2.446	14.0	21.1
2 21	7 7.22	+31 38.5	1.684	2.460	17.3	21.4

429799 2012 HJ_{82} 1 14.4 183°.32 2°.5/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.54	+26 16.4	2.457	3.286	10.7	20.9
12 23	8 1.28	+27 27.2	2.379	3.286	7.8	20.7
1 2	7 53.00	+28 39.8	2.329	3.286	4.7	20.5
1 12	7 43.40	+29 48.7	2.310	3.285	2.5	20.4
1 22	7 33.37	+30 49.1	2.321	3.284	4.2	20.5
2 1	7 23.94	+31 37.6	2.364	3.283	7.3	20.7
2 11	7 16.03	+32 13.0	2.434	3.281	10.3	20.9
2 21	7 10.30	+32 36.2	2.527	3.278	12.8	21.0

135697 2002 PC_{16} 1 14.4 198°.48 1°.2/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.21	+17 0.8	2.019	2.842	12.9	21.2
12 23	8 1.91	+17 8.8	1.937	2.839	9.6	20.9
1 2	7 53.40	+17 24.2	1.880	2.836	5.7	20.7
1 12	7 43.48	+17 44.6	1.852	2.832	1.8	20.4
1 22	7 33.17	+18 7.2	1.853	2.828	3.4	20.5
2 1	7 23.61	+18 29.4	1.885	2.823	7.4	20.8
2 11	7 15.81	+18 49.3	1.943	2.818	11.2	21.0
2 21	7 10.44	+19 5.9	2.024	2.812	14.4	21.2

262950 2007 DK_{52} 1 14.4 64°.02 0°.8/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 8.30	+22 12.5	1.653	2.495	14.4	21.1
12 23	8 2.17	+22 35.6	1.597	2.511	10.4	20.9
1 2	7 53.56	+23 2.5	1.566	2.528	5.9	20.7
1 12	7 43.49	+23 28.9	1.562	2.544	1.3	20.4
1 22	7 33.24	+23 50.7	1.586	2.561	3.9	20.6
2 1	7 24.14	+24 5.4	1.638	2.577	8.3	20.9
2 11	7 17.28	+24 12.6	1.716	2.594	12.3	21.2
2 21	7 13.24	+24 12.9	1.815	2.611	15.5	21.4

166939 2003 HD_{41} 1 14.4 228°.13 0°.7/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.59	+18 44.9	1.795	2.625	14.0	20.8
12 23	8 3.23	+18 54.3	1.709	2.616	10.3	20.5
1 2	7 54.31	+19 10.6	1.648	2.607	6.0	20.2
1 12	7 43.68	+19 30.7	1.614	2.596	1.4	19.9
1 22	7 32.53	+19 51.3	1.610	2.586	3.6	20.0
2 1	7 22.18	+20 9.6	1.635	2.575	8.3	20.3
2 11	7 13.84	+20 24.0	1.686	2.563	12.5	20.5
2 21	7 8.29	+20 34.0	1.759	2.551	16.1	20.7

391035 2005 TT_{24} 1 14.4 148°.19 2°.6/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.39	+26 22.2	1.777	2.611	13.9	21.7
12 23	8 5.92	+27 4.8	1.713	2.622	10.2	21.5
1 2	7 55.76	+27 47.5	1.674	2.632	6.0	21.3
1 12	7 43.95	+28 24.4	1.663	2.641	2.7	21.1
1 22	7 31.83	+28 50.5	1.681	2.650	4.8	21.3
2 1	7 20.84	+29 3.4	1.729	2.657	8.8	21.5
2 11	7 12.18	+29 3.8	1.803	2.664	12.6	21.8
2 21	7 6.54	+28 54.2	1.898	2.670	15.8	22.0

501347 2013 YN_{12} 1 14.4 157°.59 2°.2/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.40	+15 6.9	2.394	3.210	11.4	20.9
12 23	7 59.49	+14 43.1	2.315	3.211	8.5	20.7
1 2	7 51.85	+14 25.4	2.262	3.213	5.3	20.5
1 12	7 43.17	+14 13.1	2.238	3.214	2.5	20.4
1 22	7 34.26	+14 5.6	2.244	3.215	3.4	20.4
2 1	7 26.02	+14 1.7	2.280	3.217	6.5	20.6
2 11	7 19.22	+14 0.5	2.344	3.218	9.6	20.8
2 21	7 14.39	+14 0.7	2.433	3.219	12.3	21.0

254819 2005 QH_{131} 1 14.4 307°.09 2°.6/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.20	+25 50.5	1.661	2.509	14.1	20.8
12 23	8 1.79	+26 32.2	1.582	2.498	10.4	20.5
1 2	7 53.61	+27 16.3	1.527	2.488	6.1	20.3
1 12	7 43.57	+27 56.8	1.499	2.478	2.7	20.0
1 22	7 32.96	+28 28.2	1.499	2.469	5.0	20.2
2 1	7 23.25	+28 47.2	1.526	2.459	9.3	20.4
2 11	7 15.77	+28 53.1	1.578	2.450	13.5	20.6
2 21	7 11.32	+28 47.8	1.650	2.441	17.0	20.8

381682 2009 BL_{142} 1 14.4 334°.78 1°.4/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.07	+15 5.2	1.933	2.766	13.1	20.0
12 23	7 57.61	+15 37.0	1.849	2.756	9.7	19.8
1 2	7 51.03	+16 20.2	1.789	2.746	5.8	19.5
1 12	7 43.05	+17 11.9	1.757	2.737	2.0	19.2
1 22	7 34.62	+18 8.0	1.753	2.729	3.4	19.3
2 1	7 26.82	+19 4.1	1.779	2.721	7.5	19.6
2 11	7 20.66	+19 56.5	1.830	2.714	11.3	19.8
2 21	7 16.82	+20 42.8	1.904	2.707	14.6	20.0

201324 2002 TV_{127} 1 14.4 12°.38 5°.3/16.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.60	+ 7 26.0	1.944	2.750	14.0	19.5
12 23	7 58.50	+ 6 50.3	1.870	2.751	11.1	19.3
1 2	7 51.42	+ 6 28.4	1.820	2.753	7.9	19.2
1 12	7 43.11	+ 6 21.3	1.796	2.756	5.6	19.0
1 22	7 34.51	+ 6 28.4	1.800	2.758	5.8	19.0
2 1	7 26.65	+ 6 47.6	1.832	2.761	8.4	19.2
2 11	7 20.43	+ 7 15.7	1.890	2.765	11.5	19.4
2 21	7 16.45	+ 7 48.9	1.970	2.768	14.3	19.6

334582 2002 TV_{123} 1 14.4 82°.39 2°.4/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.59	+28 39.9	2.168	3.001	11.8	20.5
12 23	8 1.99	+28 50.6	2.104	3.012	8.6	20.3
1 2	7 53.32	+28 58.5	2.066	3.023	5.2	20.1
1 12	7 43.46	+28 59.8	2.056	3.034	2.5	19.9
1 22	7 33.47	+28 52.4	2.077	3.045	4.1	20.1
2 1	7 24.42	+28 35.7	2.127	3.055	7.4	20.3
2 11	7 17.24	+28 10.8	2.204	3.066	10.6	20.5
2 21	7 12.47	+27 40.0	2.304	3.077	13.3	20.7

433851 2015 BK_{274} 1 14.4 19°.61 1°.4/15.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.53	+15 21.3	1.522	2.367	15.3	20.2
12 23	7 58.19	+15 58.1	1.463	2.376	11.3	20.0
1 2	7 51.41	+16 47.9	1.427	2.386	6.7	19.8
1 12	7 43.12	+17 46.4	1.417	2.398	2.0	19.5
1 22	7 34.52	+18 48.1	1.434	2.410	3.8	19.6
2 1	7 26.92	+19 47.4	1.478	2.424	8.4	20.0
2 11	7 21.42	+20 40.4	1.547	2.438	12.5	20.2
2 21	7 18.66	+21 24.7	1.638	2.453	16.0	20.5

88375 2001 PB_{25} 1 14.4 298.°69 2.°0/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 10.37	+25 5.6	1.340	2.193	16.5	18.9
12 23	8 4.65	+25 18.0	1.260	2.179	12.2	18.6
1 2	7 55.50	+25 32.1	1.202	2.165	7.1	18.3
1 12	7 43.99	+25 42.2	1.169	2.151	2.3	18.0
1 22	7 31.73	+25 43.6	1.163	2.137	5.1	18.1
2 1	7 20.63	+25 33.8	1.183	2.123	10.6	18.4
2 11	7 12.32	+25 14.0	1.226	2.110	15.6	18.6
2 21	7 7.74	+24 46.6	1.288	2.097	19.9	18.9

436094 2009 SC_{229} 1 14.4 121.°54 0.°1/14.4 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.95	+20 55.0	2.012	2.827	13.3	23.5
12 23	8 7.89	+21 9.1	1.957	2.858	9.6	23.4
1 2	7 56.61	+21 26.1	1.929	2.887	5.5	23.2
1 12	7 44.11	+21 42.3	1.932	2.914	1.1	22.9
1 22	7 31.59	+21 54.9	1.966	2.940	3.3	23.1
2 1	7 20.27	+22 2.3	2.031	2.965	7.4	23.4
2 11	7 11.11	+22 4.4	2.125	2.988	10.9	23.7
2 21	7 4.63	+22 2.1	2.243	3.009	13.8	23.9

281430 2008 SO_{8} 1 14.4 115.°59 3.°1/15.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.30	+12 4.1	1.647	2.466	15.6	21.3
12 23	8 3.55	+12 10.4	1.587	2.483	11.7	21.1
1 2	7 54.35	+12 30.2	1.550	2.500	7.4	20.9
1 12	7 43.69	+13 1.5	1.541	2.516	3.6	20.7
1 22	7 32.81	+13 40.5	1.560	2.532	4.5	20.8
2 1	7 23.02	+14 23.3	1.608	2.547	8.4	21.0
2 11	7 15.40	+15 5.9	1.682	2.562	12.4	21.3
2 21	7 10.58	+15 45.6	1.778	2.576	15.7	21.6

61084 2000 LF_{20} 1 14.4 194.°02 3.°0/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.20	+11 6.2	2.829	3.628	10.3	19.3
12 23	7 58.43	+10 42.2	2.743	3.626	7.9	19.1
1 2	7 51.20	+10 25.7	2.683	3.624	5.3	19.0
1 12	7 43.07	+10 16.6	2.653	3.621	3.2	18.8
1 22	7 34.72	+10 14.3	2.654	3.618	3.6	18.9
2 1	7 26.87	+10 17.8	2.685	3.615	6.0	19.0
2 11	7 20.19	+10 25.7	2.745	3.611	8.6	19.2
2 21	7 15.15	+10 36.4	2.829	3.607	11.0	19.3

244472 2002 RW_{260} 1 14.4 113.°09 2.°2/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.00	+25 28.9	2.080	2.910	12.4	20.8
12 23	8 3.79	+26 23.8	2.026	2.933	8.9	20.7
1 2	7 54.39	+27 19.4	1.998	2.956	5.2	20.5
1 12	7 43.70	+28 10.1	1.999	2.978	2.3	20.3
1 22	7 32.83	+28 51.4	2.032	2.999	4.2	20.5
2 1	7 22.94	+29 20.6	2.094	3.019	7.7	20.8
2 11	7 15.00	+29 37.9	2.183	3.039	10.9	21.0
2 21	7 9.59	+29 44.7	2.295	3.058	13.6	21.2

257831 2000 HC_{23} 1 14.4 237.°90 6.°1/16.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.27	+ 4 17.6	1.965	2.756	14.5	20.9
12 23	7 59.81	+ 3 51.2	1.880	2.749	11.7	20.7
1 2	7 52.25	+ 3 41.3	1.818	2.741	8.7	20.5
1 12	7 43.31	+ 3 49.3	1.783	2.734	6.5	20.3
1 22	7 33.94	+ 4 14.5	1.775	2.726	6.5	20.3
2 1	7 25.22	+ 4 54.3	1.795	2.718	8.9	20.4
2 11	7 18.12	+ 5 44.2	1.841	2.710	12.0	20.6
2 21	7 13.32	+ 6 39.6	1.909	2.702	15.0	20.8

184854 2005 UP_{57} 1 14.4 212.°65 6.°1/16.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.36	+ 3 51.9	2.112	2.896	13.8	20.1
12 23	7 59.71	+ 3 17.3	2.029	2.892	11.2	19.9
1 2	7 52.12	+ 2 58.0	1.969	2.888	8.4	19.8
1 12	7 43.27	+ 2 55.4	1.936	2.883	6.4	19.6
1 22	7 34.07	+ 3 9.4	1.931	2.878	6.5	19.6
2 1	7 25.50	+ 3 37.9	1.955	2.873	8.6	19.7
2 11	7 18.45	+ 4 17.2	2.005	2.868	11.4	19.9
2 21	7 13.56	+ 5 2.9	2.077	2.863	14.2	20.1

19972 1988 RD_{6} 1 14.4 87.°80 1.°2/14.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.28	+22 42.4	1.596	2.436	15.0	18.7
12 23	8 4.38	+23 14.6	1.544	2.457	10.8	18.5
1 2	7 54.85	+23 50.3	1.517	2.478	6.1	18.3
1 12	7 43.79	+24 24.2	1.517	2.499	1.6	18.0
1 22	7 32.60	+24 51.6	1.546	2.519	4.1	18.2
2 1	7 22.68	+25 9.9	1.602	2.539	8.7	18.5
2 11	7 15.18	+25 18.8	1.685	2.559	12.6	18.8
2 21	7 10.69	+25 19.5	1.789	2.579	15.9	19.1

431516 2007 TB_{188} 1 14.4 76.°45 3.°9/16.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.52	+ 9 2.8	2.289	3.092	12.3	21.1
12 23	7 58.16	+ 8 43.8	2.217	3.100	9.5	20.9
1 2	7 51.12	+ 8 36.2	2.171	3.109	6.5	20.7
1 12	7 43.06	+ 8 39.8	2.152	3.117	4.2	20.6
1 22	7 34.80	+ 8 53.4	2.163	3.126	4.5	20.6
2 1	7 27.20	+ 9 15.0	2.203	3.134	7.0	20.8
2 11	7 21.03	+ 9 41.9	2.270	3.143	9.9	21.0
2 21	7 16.80	+10 11.4	2.360	3.151	12.5	21.2

87825 2000 SF_{168} 1 14.4 138.°86 2.°6/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 10.05	+28 36.1	2.154	2.985	11.9	20.3
12 23	8 3.12	+28 54.8	2.086	2.993	8.7	20.1
1 2	7 54.03	+29 10.9	2.044	3.000	5.3	19.9
1 12	7 43.64	+29 20.3	2.031	3.007	2.6	19.7
1 22	7 33.05	+29 20.1	2.048	3.014	4.3	19.8
2 1	7 23.40	+29 9.6	2.094	3.021	7.6	20.1
2 11	7 15.67	+28 49.8	2.168	3.027	10.9	20.3
2 21	7 10.42	+28 23.0	2.264	3.033	13.6	20.5

62435 2000 SN_{190} 1 14.4 351.°79 5.°3/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.19	+ 7 42.4	1.705	2.519	15.4	19.1
12 23	7 59.23	+ 7 22.4	1.630	2.517	12.1	18.9
1 2	7 51.98	+ 7 18.8	1.577	2.515	8.5	18.7
1 12	7 43.26	+ 7 31.9	1.550	2.514	5.7	18.5
1 22	7 34.15	+ 8 0.2	1.550	2.513	5.9	18.5
2 1	7 25.83	+ 8 40.4	1.577	2.512	9.0	18.7
2 11	7 19.39	+ 9 27.9	1.629	2.511	12.5	18.9
2 21	7 15.48	+10 18.0	1.703	2.511	15.8	19.1

242081 2002 TG_{212} 1 14.4 116.°34 3.°3/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.16	+26 19.4	1.769	2.610	13.7	20.3
12 23	8 3.01	+27 37.8	1.705	2.618	10.0	20.1
1 2	7 54.22	+28 58.4	1.667	2.625	6.0	19.9
1 12	7 43.71	+30 13.7	1.656	2.632	3.3	19.7
1 22	7 32.76	+31 16.7	1.675	2.639	5.4	19.9
2 1	7 22.77	+32 3.2	1.723	2.646	9.2	20.1
2 11	7 14.97	+32 32.6	1.795	2.653	12.8	20.3
2 21	7 10.09	+32 46.9	1.889	2.659	15.9	20.6

413679 2005 WR_{88} 1 14.4 14.°95 3.°9/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.69	+25 22.1	1.140	2.013	17.3	19.3
12 23	7 59.11	+26 41.9	1.094	2.022	12.6	19.1
1 2	7 52.25	+28 5.9	1.069	2.033	7.5	18.8
1 12	7 43.33	+29 23.9	1.068	2.046	3.9	18.7
1 22	7 34.04	+30 26.8	1.092	2.061	6.5	18.9
2 1	7 26.20	+31 9.2	1.139	2.077	11.3	19.2
2 11	7 21.24	+31 30.9	1.209	2.095	15.7	19.5
2 21	7 19.86	+31 34.4	1.297	2.114	19.4	19.8

264914 2002 TF_{235} 1 14.4 62.°74 6.°1/16.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.81	+ 8 8.0	1.564	2.377	16.6	19.8
12 23	8 2.46	+ 7 11.1	1.509	2.395	13.0	19.7
1 2	7 53.72	+ 6 29.8	1.477	2.412	9.2	19.5
1 12	7 43.58	+ 6 6.0	1.470	2.431	6.4	19.4
1 22	7 33.32	+ 5 59.5	1.491	2.449	6.7	19.4
2 1	7 24.20	+ 6 8.1	1.538	2.467	9.7	19.6
2 11	7 17.27	+ 6 27.9	1.611	2.485	13.1	19.9
2 21	7 13.11	+ 6 54.5	1.704	2.504	16.2	20.1

28846 2000 JQ_{50} 1 14.4 163.°14 2.°5/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.74	+14 20.4	2.055	2.872	13.0	18.8
12 23	8 1.44	+14 3.0	1.978	2.875	9.7	18.6
1 2	7 53.09	+13 53.8	1.927	2.878	6.1	18.4
1 12	7 43.48	+13 51.7	1.905	2.881	2.9	18.2
1 22	7 33.60	+13 55.5	1.912	2.883	3.8	18.3
2 1	7 24.50	+14 3.4	1.948	2.885	7.4	18.5
2 11	7 17.12	+14 13.7	2.012	2.887	10.9	18.7
2 21	7 12.04	+14 24.7	2.099	2.888	13.9	18.9

320916 2008 GS_{98} 1 14.4 207.°14 3.°7/16.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.25	+ 9 12.0	2.237	3.038	12.6	21.1
12 23	7 59.59	+ 9 9.6	2.151	3.034	9.7	20.9
1 2	7 52.04	+ 9 19.4	2.090	3.029	6.6	20.7
1 12	7 43.29	+ 9 41.0	2.057	3.024	4.0	20.5
1 22	7 34.18	+10 12.4	2.053	3.019	4.4	20.5
2 1	7 25.66	+10 50.9	2.079	3.013	7.2	20.7
2 11	7 18.60	+11 33.2	2.133	3.007	10.4	20.9
2 21	7 13.60	+12 16.3	2.211	3.000	13.3	21.1

441442 2008 HW_{43} 1 14.4 158.°12 1.°3/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.31	+22 25.0	1.583	2.421	15.2	22.1
12 23	8 5.42	+23 2.5	1.516	2.427	11.0	21.8
1 2	7 55.64	+23 45.0	1.472	2.433	6.3	21.6
1 12	7 44.01	+24 26.5	1.456	2.438	1.6	21.3
1 22	7 31.97	+25 1.7	1.468	2.442	4.4	21.5
2 1	7 21.06	+25 27.0	1.509	2.445	9.2	21.7
2 11	7 12.60	+25 41.7	1.575	2.448	13.4	22.0
2 21	7 7.33	+25 46.9	1.663	2.451	17.0	22.3

14160 1998 SB_{144} 1 14.4 98.°47 0.°2/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.02	+19 16.0	1.800	2.632	13.9	19.7
12 23	8 2.54	+19 38.4	1.741	2.649	10.1	19.5
1 2	7 53.75	+20 7.0	1.707	2.667	5.8	19.3
1 12	7 43.61	+20 38.1	1.701	2.683	1.2	19.0
1 22	7 33.28	+21 7.9	1.724	2.700	3.4	19.2
2 1	7 23.99	+21 33.4	1.777	2.716	7.8	19.5
2 11	7 16.74	+21 53.1	1.855	2.732	11.6	19.7
2 21	7 12.13	+22 6.9	1.957	2.747	14.7	20.0

258143 2001 RV_{117} 1 14.4 144°.60 0°.9/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 7.26	+17 22.6	2.013	2.839	12.9	21.5
12 23	8 1.17	+17 38.6	1.941	2.845	9.4	21.3
1 2	7 52.97	+18 2.0	1.894	2.851	5.5	21.1
1 12	7 43.47	+18 30.0	1.876	2.857	1.5	20.8
1 22	7 33.68	+18 59.3	1.887	2.863	3.2	21.0
2 1	7 24.69	+19 27.1	1.928	2.868	7.2	21.2
2 11	7 17.46	+19 51.5	1.996	2.872	10.9	21.5
2 21	7 12.61	+20 11.5	2.087	2.877	14.0	21.7

469226 2016 HU_{9} 1 14.4 323°.20 4°.2/12.3 18

12 13	8 6.62	+30 23.8	2.021	2.861	12.3	21.0
12 23	8 1.05	+31 32.9	1.949	2.858	9.1	20.8
1 2	7 53.08	+32 40.7	1.902	2.855	6.0	20.6
1 12	7 43.51	+33 40.7	1.884	2.852	4.2	20.5
1 22	7 33.48	+34 27.1	1.894	2.850	5.8	20.6
2 1	7 24.23	+34 56.9	1.933	2.847	9.0	20.8
2 11	7 16.91	+35 10.1	1.997	2.845	12.2	21.0
2 21	7 12.23	+35 8.9	2.082	2.843	14.9	21.2

467278 2016 EF_{192} 1 14.4 5°.93 10°.9/18.5 18

12 13	8 0.73	− 1 8.3	1.251	2.057	20.3	20.4
12 23	7 57.26	− 2 6.1	1.190	2.057	17.1	20.1
1 2	7 51.06	− 2 34.3	1.148	2.059	13.8	20.0
1 12	7 43.12	− 2 28.2	1.127	2.062	11.4	19.8
1 22	7 34.75	− 1 47.8	1.128	2.067	11.0	19.8
2 1	7 27.41	− 0 38.0	1.151	2.073	12.9	19.9
2 11	7 22.37	+ 0 51.7	1.197	2.081	16.0	20.1
2 21	7 20.36	+ 2 31.0	1.262	2.090	19.2	20.4

183969 2004 ES_{7} 1 14.4 1°.86 7°.3/17.8 18

12 13	8 3.82	+ 1 42.3	1.626	2.420	16.9	19.9
12 23	7 59.07	+ 1 33.4	1.552	2.420	13.7	19.7
1 2	7 51.95	+ 1 48.2	1.499	2.420	10.4	19.5
1 12	7 43.29	+ 2 27.9	1.471	2.420	7.8	19.3
1 22	7 34.21	+ 3 30.2	1.468	2.420	7.6	19.3
2 1	7 25.93	+ 4 49.9	1.493	2.421	10.0	19.4
2 11	7 19.57	+ 6 19.6	1.542	2.422	13.3	19.6
2 21	7 15.82	+ 7 51.9	1.613	2.423	16.5	19.8

219923 2002 GK_{71} 1 14.4 356°.27 1°.4/14.9 18

12 13	8 3.24	+16 6.3	1.502	2.347	15.4	19.7
12 23	7 58.90	+16 29.3	1.430	2.344	11.4	19.4
1 2	7 51.95	+17 4.5	1.381	2.341	6.8	19.2
1 12	7 43.31	+17 48.6	1.358	2.339	2.1	18.9
1 22	7 34.19	+18 36.8	1.361	2.338	3.9	19.0
2 1	7 26.00	+19 24.2	1.392	2.338	8.8	19.3
2 11	7 19.95	+20 7.1	1.447	2.338	13.2	19.5
2 21	7 16.79	+20 43.0	1.522	2.340	17.0	19.8

101515 1998 XG_{27} 1 14.4 3°.92 9°.8/14.6 18

12 13	8 13.36	+ 4 34.5	1.553	2.345	17.6	18.3
12 23	8 6.00	+ 2 7.0	1.481	2.345	14.5	18.1
1 2	7 55.90	− 0 7.9	1.434	2.345	11.6	17.9
1 12	7 44.08	− 2 2.3	1.413	2.346	9.8	17.8
1 22	7 31.86	− 3 29.9	1.420	2.347	10.4	17.9
2 1	7 20.71	− 4 28.0	1.454	2.348	12.8	18.0
2 11	7 11.86	− 4 58.7	1.511	2.350	15.8	18.2
2 21	7 6.04	− 5 7.4	1.588	2.353	18.6	18.4

21340 1997 CS_{19} 1 14.4 273°.56 2°.0/13.6 18

12 13	8 8.17	+24 0.9	1.688	2.531	14.1	18.5
12 23	8 2.54	+24 47.2	1.604	2.518	10.3	18.2
1 2	7 54.11	+25 38.3	1.544	2.505	6.0	17.9
1 12	7 43.76	+26 28.3	1.511	2.492	2.2	17.6
1 22	7 32.75	+27 11.2	1.507	2.478	4.7	17.8
2 1	7 22.55	+27 42.9	1.531	2.465	9.2	18.0
2 11	7 14.51	+28 2.1	1.579	2.451	13.5	18.2
2 21	7 9.49	+28 9.7	1.649	2.438	17.1	18.4

269458 2009 SW_{297} 1 14.4 10°.94 2°.6/13.4 18

12 13	8 5.85	+25 23.8	1.578	2.430	14.5	20.5
12 23	8 0.80	+26 13.0	1.513	2.432	10.6	20.3
1 2	7 53.03	+27 4.9	1.472	2.434	6.2	20.1
1 12	7 43.52	+27 53.1	1.457	2.437	2.7	19.8
1 22	7 33.60	+28 31.8	1.470	2.440	5.0	20.0
2 1	7 24.72	+28 57.5	1.510	2.444	9.3	20.3
2 11	7 18.14	+29 9.6	1.574	2.449	13.3	20.5
2 21	7 14.56	+29 9.8	1.659	2.454	16.7	20.7

4110 Keats 1 14.4 216°.77 0°.8/14.8 18

12 13	8 3.96	+17 34.1	2.596	3.417	10.5	17.3
12 23	7 58.48	+17 45.0	2.510	3.412	7.7	17.1
1 2	7 51.35	+18 1.5	2.450	3.407	4.5	16.9
1 12	7 43.18	+18 21.5	2.420	3.401	1.3	16.7
1 22	7 34.72	+18 43.0	2.420	3.395	2.7	16.8
2 1	7 26.79	+19 4.0	2.451	3.389	6.0	17.0
2 11	7 20.15	+19 22.8	2.510	3.383	9.1	17.2
2 21	7 15.34	+19 38.7	2.593	3.376	11.7	17.3

366870 2005 SD_{163} 1 14.4 15°.81 3°.7/15.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 4.45	+11 22.2	1.587	2.416	15.6	20.4
12 23	7 59.56	+11 18.8	1.518	2.418	11.9	20.1
1 2	7 52.23	+11 30.3	1.472	2.421	7.7	19.9
1 12	7 43.38	+11 55.3	1.451	2.425	4.2	19.7
1 22	7 34.16	+12 31.0	1.458	2.429	4.8	19.8
2 1	7 25.86	+13 13.4	1.491	2.433	8.7	20.0
2 11	7 19.58	+13 58.0	1.550	2.438	12.7	20.2
2 21	7 16.01	+14 41.3	1.630	2.444	16.2	20.5

372247 2008 UE_{151} 1 14.4 63°.88 0°.7/14.7 18

12 13	8 6.37	+18 19.2	1.961	2.792	13.0	20.8
12 23	8 0.42	+18 31.7	1.907	2.815	9.4	20.6
1 2	7 52.47	+18 50.4	1.878	2.837	5.4	20.4
1 12	7 43.40	+19 12.5	1.878	2.860	1.4	20.1
1 22	7 34.21	+19 34.9	1.906	2.882	3.1	20.3
2 1	7 25.97	+19 55.4	1.964	2.904	7.1	20.6
2 11	7 19.54	+20 12.4	2.049	2.927	10.5	20.9
2 21	7 15.45	+20 25.2	2.156	2.949	13.4	21.1

282590 2005 EU_{217} 1 14.4 145°.96 1°.6/15.2 18

12 13	8 3.86	+15 7.2	2.402	3.220	11.3	21.1
12 23	7 58.46	+15 18.5	2.325	3.224	8.4	21.0
1 2	7 51.35	+15 37.4	2.273	3.227	5.1	20.8
1 12	7 43.19	+16 2.2	2.251	3.230	2.0	20.5
1 22	7 34.78	+16 30.5	2.259	3.233	3.0	20.6
2 1	7 26.97	+16 59.8	2.297	3.236	6.3	20.8
2 11	7 20.55	+17 28.2	2.362	3.238	9.4	21.0
2 21	7 16.06	+17 53.9	2.452	3.241	12.1	21.2

500773 2013 CM_{155} 1 14.4 259°.43 0°.3/14.6 17

12 13	8 0.35	+19 2.1	3.316	4.137	8.4	22.0
12 23	7 55.63	+19 18.9	3.224	4.127	6.1	21.8
1 2	7 49.64	+19 39.4	3.159	4.117	3.5	21.6
1 12	7 42.85	+20 2.0	3.125	4.107	0.8	21.4
1 22	7 35.83	+20 25.0	3.122	4.097	2.1	21.5
2 1	7 29.18	+20 46.6	3.149	4.087	4.9	21.7
2 11	7 23.49	+21 5.7	3.206	4.076	7.4	21.8
2 21	7 19.19	+21 21.5	3.288	4.066	9.6	22.0

288982 2004 TN_{50} 1 14.4 56°.56 2°.5/15.1 17

12 13	8 10.17	+15 49.8	1.288	2.131	17.7	20.1
12 23	8 3.87	+15 37.7	1.241	2.152	13.0	19.9
1 2	7 54.68	+15 37.0	1.216	2.173	7.9	19.7
1 12	7 43.85	+15 45.5	1.215	2.195	3.0	19.4
1 22	7 32.93	+15 59.9	1.242	2.217	4.6	19.6
2 1	7 23.49	+16 17.1	1.294	2.239	9.5	19.9
2 11	7 16.74	+16 34.3	1.371	2.261	13.9	20.3
2 21	7 13.25	+16 49.7	1.468	2.283	17.6	20.5

327911 2007 DC_{12} 1 14.4 288°.43 1°.9/13.6 18

12 13	8 6.61	+23 56.4	1.824	2.666	13.3	20.5
12 23	8 1.18	+24 43.4	1.743	2.657	9.7	20.3
1 2	7 53.24	+25 34.7	1.688	2.649	5.6	20.0
1 12	7 43.61	+26 24.9	1.660	2.640	2.0	19.7
1 22	7 33.45	+27 8.5	1.660	2.632	4.3	19.9
2 1	7 24.07	+27 41.9	1.689	2.623	8.6	20.1
2 11	7 16.67	+28 3.6	1.744	2.615	12.5	20.3
2 21	7 12.00	+28 14.2	1.820	2.607	15.8	20.5

125354 2001 VT_{61} 1 14.4 41°.36 2°.9/13.7 18

12 13	8 10.81	+26 24.6	1.234	2.091	17.3	19.8
12 23	8 4.82	+26 51.6	1.181	2.101	12.6	19.5
1 2	7 55.45	+27 18.7	1.149	2.112	7.4	19.3
1 12	7 44.03	+27 39.0	1.143	2.123	3.0	19.0
1 22	7 32.35	+27 47.4	1.162	2.134	5.6	19.2
2 1	7 22.27	+27 42.0	1.207	2.146	10.6	19.5
2 11	7 15.22	+27 24.6	1.275	2.158	15.2	19.8
2 21	7 11.87	+26 58.4	1.362	2.171	19.0	20.1

334227 2001 TM_{57} 1 14.4 79°.50 2°.9/15.9 18

12 13	8 4.36	+11 10.0	2.333	3.140	11.9	20.9
12 23	7 58.70	+11 7.3	2.273	3.162	9.0	20.8
1 2	7 51.42	+11 14.7	2.238	3.183	5.9	20.6
1 12	7 43.21	+11 31.1	2.232	3.204	3.3	20.5
1 22	7 34.88	+11 54.5	2.256	3.224	3.7	20.6
2 1	7 27.27	+12 22.6	2.309	3.245	6.5	20.8
2 11	7 21.11	+12 52.8	2.391	3.265	9.4	21.0
2 21	7 16.87	+13 22.9	2.496	3.286	11.9	21.2

35832 1999 JR_{56} 1 14.4 273°.42 0°.1/14.5 18

12 13	8 9.66	+20 34.2	1.617	2.456	14.8	19.6
12 23	8 3.70	+20 38.9	1.526	2.438	11.0	19.3
1 2	7 54.84	+20 49.0	1.458	2.419	6.4	19.0
1 12	7 43.97	+21 1.4	1.417	2.400	1.3	18.6
1 22	7 32.38	+21 12.4	1.405	2.381	4.0	18.8
2 1	7 21.60	+21 19.4	1.420	2.361	9.1	19.0
2 11	7 13.03	+21 21.5	1.460	2.341	13.8	19.3
2 21	7 7.58	+21 18.8	1.522	2.321	17.8	19.5

98229 2000 SE_{150} 1 14.4 129°.23 0°.2/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 11.04	+20 31.5	1.853	2.682	13.7	20.6
12 23	8 4.02	+20 52.5	1.790	2.697	9.9	20.4
1 2	7 54.65	+21 18.4	1.752	2.711	5.7	20.1
1 12	7 43.87	+21 45.2	1.742	2.725	1.1	19.8
1 22	7 32.87	+22 9.2	1.763	2.738	3.5	20.1
2 1	7 22.90	+22 28.0	1.813	2.750	7.8	20.3
2 11	7 14.99	+22 40.6	1.889	2.762	11.6	20.6
2 21	7 9.77	+22 47.3	1.988	2.773	14.7	20.8

86452 2000 CQ_{35} 1 14.4 237°.26 2°.0/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.29	+16 45.2	1.522	2.357	15.8	19.2
12 23	8 4.06	+16 31.3	1.444	2.351	11.8	19.0
1 2	7 54.97	+16 26.0	1.388	2.345	7.2	18.7
1 12	7 43.98	+16 27.5	1.359	2.339	2.6	18.4
1 22	7 32.47	+16 33.5	1.358	2.333	4.3	18.5
2 1	7 21.95	+16 41.5	1.384	2.326	9.2	18.8
2 11	7 13.77	+16 50.0	1.435	2.319	13.8	19.0
2 21	7 8.73	+16 57.4	1.507	2.312	17.7	19.2

465197 2007 HW_{50} 1 14.4 266°.34 1°.1/13.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.26	+22 25.7	2.089	2.923	12.1	22.0
12 23	8 0.69	+23 2.1	1.998	2.909	8.9	21.7
1 2	7 52.88	+23 43.3	1.933	2.894	5.1	21.5
1 12	7 43.56	+24 24.9	1.897	2.878	1.4	21.2
1 22	7 33.72	+25 2.8	1.890	2.863	3.6	21.3
2 1	7 24.48	+25 33.7	1.912	2.847	7.6	21.5
2 11	7 16.93	+25 56.1	1.962	2.832	11.3	21.7
2 21	7 11.78	+26 9.9	2.033	2.816	14.5	21.9

81506 2000 GW_{163} 1 14.4 245°.28 0°.4/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.76	+19 52.8	1.839	2.675	13.5	19.5
12 23	8 1.19	+20 34.2	1.759	2.670	9.8	19.3
1 2	7 53.21	+21 23.3	1.705	2.665	5.6	19.0
1 12	7 43.63	+22 15.5	1.678	2.660	1.1	18.7
1 22	7 33.56	+23 5.8	1.680	2.655	3.6	18.9
2 1	7 24.25	+23 50.0	1.712	2.650	8.1	19.1
2 11	7 16.85	+24 25.7	1.769	2.645	12.1	19.4
2 21	7 12.08	+24 52.3	1.848	2.640	15.4	19.6

364986 2008 JR_{2} 1 14.4 81°.69 15°.1/ 6.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.43	+40 17.4	0.948	1.803	21.5	20.0
12 23	8 15.93	+44 32.3	0.920	1.818	17.8	19.8
1 2	8 3.25	+48 29.0	0.914	1.834	15.4	19.8
1 12	7 45.80	+51 37.7	0.932	1.850	15.4	19.8
1 22	7 26.80	+53 39.5	0.971	1.865	17.6	20.0
2 1	7 10.30	+54 33.1	1.031	1.881	20.6	20.3
2 11	6 59.47	+54 32.2	1.107	1.896	23.6	20.5
2 21	6 55.39	+53 54.5	1.195	1.911	26.1	20.8

503683 2016 HS_{9} 1 14.4 180°.69 2°.6/12.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.44	+29 18.5	2.912	3.739	9.3	22.2
12 23	7 59.53	+30 4.9	2.835	3.739	6.8	22.0
1 2	7 51.97	+30 49.9	2.787	3.740	4.3	21.9
1 12	7 43.36	+31 29.8	2.768	3.740	2.6	21.8
1 22	7 34.47	+32 1.4	2.780	3.740	3.9	21.8
2 1	7 26.12	+32 22.7	2.823	3.739	6.4	22.0
2 11	7 19.07	+32 33.7	2.893	3.738	8.9	22.2
2 21	7 13.86	+32 35.3	2.988	3.736	11.1	22.3

362143 2009 DL_{93} 1 14.4 284°.82 1°.9/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.31	+23 54.3	1.595	2.441	14.7	21.1
12 23	8 2.78	+24 33.9	1.512	2.428	10.8	20.8
1 2	7 54.34	+25 18.2	1.453	2.414	6.3	20.5
1 12	7 43.89	+26 1.5	1.420	2.401	2.1	20.2
1 22	7 32.76	+26 37.8	1.415	2.388	4.7	20.3
2 1	7 22.50	+27 3.2	1.438	2.374	9.5	20.6
2 11	7 14.52	+27 16.5	1.485	2.361	13.9	20.8
2 21	7 9.70	+27 19.0	1.552	2.348	17.7	21.0

150802 2001 RW_{81} 1 14.4 10°.39 10°.4/18.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.94	− 2 20.1	1.507	2.290	18.5	18.7
12 23	7 58.54	− 3 20.7	1.442	2.292	15.7	18.6
1 2	7 51.71	− 3 55.2	1.396	2.294	12.8	18.4
1 12	7 43.33	− 3 59.5	1.373	2.298	10.8	18.3
1 22	7 34.58	− 3 33.0	1.374	2.302	10.5	18.3
2 1	7 26.72	− 2 39.2	1.398	2.307	12.2	18.4
2 11	7 20.87	− 1 25.3	1.446	2.313	14.8	18.5
2 21	7 17.73	− 0 0.0	1.514	2.319	17.6	18.7

88016 2000 UG_{61} 1 14.4 123°.53 5°.7/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.81	+37 47.5	2.237	3.057	11.9	19.9
12 23	8 5.28	+38 38.8	2.181	3.071	9.3	19.7
1 2	7 55.37	+39 21.0	2.151	3.085	6.8	19.6
1 12	7 44.04	+39 48.1	2.149	3.098	5.7	19.6
1 22	7 32.53	+39 56.4	2.176	3.111	6.8	19.7
2 1	7 22.10	+39 45.4	2.232	3.124	9.1	19.8
2 11	7 13.81	+39 17.8	2.313	3.136	11.6	20.0
2 21	7 8.26	+38 37.9	2.416	3.147	13.9	20.2

388466 2007 DD_{75} 1 14.5 116°.17 2°.7/13.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 14.72	+26 49.6	1.640	2.476	14.8	21.4
12 23	8 6.97	+27 23.5	1.585	2.495	10.8	21.2
1 2	7 56.44	+27 56.4	1.554	2.513	6.4	20.9
1 12	7 44.27	+28 22.2	1.551	2.530	2.8	20.8
1 22	7 31.94	+28 36.4	1.578	2.547	4.9	20.9
2 1	7 20.96	+28 37.6	1.632	2.563	9.1	21.2
2 11	7 12.54	+28 27.1	1.713	2.578	13.0	21.5
2 21	7 7.30	+28 8.0	1.814	2.592	16.2	21.7

376302 2011 FF_{147} 1 14.5 200°.43 9°.9/ 8.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.60	+52 52.0	2.447	3.218	12.5	21.1
12 23	8 9.56	+54 17.8	2.391	3.216	11.1	21.0
1 2	7 58.21	+55 26.4	2.359	3.214	10.1	21.0
1 12	7 44.67	+56 9.7	2.352	3.212	10.0	20.9
1 22	7 30.57	+56 22.8	2.371	3.209	10.7	21.0
2 1	7 17.71	+56 5.6	2.413	3.206	12.1	21.1
2 11	7 7.63	+55 22.4	2.477	3.203	13.6	21.2
2 21	7 1.16	+54 20.0	2.559	3.199	15.1	21.3

218596 2005 MY_{50} 1 14.5 187°.52 2°.4/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.39	+13 44.9	2.269	3.080	12.1	20.8
12 23	8 1.13	+13 37.7	2.187	3.080	9.1	20.6
1 2	7 52.96	+13 38.7	2.130	3.079	5.7	20.3
1 12	7 43.59	+13 46.8	2.102	3.077	2.7	20.1
1 22	7 33.91	+14 0.5	2.104	3.075	3.5	20.2
2 1	7 24.90	+14 17.6	2.136	3.073	6.9	20.4
2 11	7 17.41	+14 36.2	2.197	3.069	10.2	20.6
2 21	7 12.03	+14 54.7	2.281	3.065	13.1	20.8

253267 2003 AD_{69} 1 14.5 23°.09 2°.2/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.45	+22 20.5	1.346	2.204	16.1	19.9
12 23	8 0.81	+23 31.5	1.290	2.212	11.7	19.7
1 2	7 53.18	+24 50.2	1.257	2.220	6.7	19.4
1 12	7 43.66	+26 8.4	1.249	2.230	2.3	19.2
1 22	7 33.72	+27 17.7	1.268	2.241	5.1	19.4
2 1	7 24.97	+28 12.5	1.313	2.252	10.0	19.7
2 11	7 18.78	+28 50.6	1.382	2.264	14.4	20.0
2 21	7 15.87	+29 13.0	1.471	2.277	18.0	20.3

190194 2005 WF_{178} 1 14.5 224°.23 2°.9/12.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.33	+26 34.8	2.137	2.973	11.9	20.4
12 23	8 1.49	+27 44.5	2.058	2.968	8.7	20.2
1 2	7 53.36	+28 56.5	2.005	2.962	5.3	20.0
1 12	7 43.70	+30 4.7	1.981	2.957	2.9	19.8
1 22	7 33.53	+31 3.4	1.987	2.951	4.7	19.9
2 1	7 24.02	+31 48.9	2.023	2.945	8.2	20.1
2 11	7 16.25	+32 19.9	2.085	2.939	11.5	20.3
2 21	7 10.94	+32 37.6	2.170	2.932	14.3	20.5

369310 2009 SB_{67} 1 14.5 141°.81 2°.5/15.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.25	+12 33.9	2.461	3.266	11.5	22.3
12 23	8 0.09	+12 29.6	2.389	3.278	8.6	22.2
1 2	7 52.26	+12 33.8	2.342	3.289	5.5	22.0
1 12	7 43.44	+12 45.5	2.325	3.299	2.8	21.8
1 22	7 34.43	+13 2.9	2.339	3.309	3.4	21.9
2 1	7 26.09	+13 24.1	2.383	3.318	6.3	22.1
2 11	7 19.15	+13 47.0	2.456	3.327	9.3	22.3
2 21	7 14.12	+14 9.8	2.552	3.335	11.9	22.5

343306 2010 AG_{115} 1 14.5 53°.50 8°.8/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.29	+49 1.3	2.315	3.105	12.6	20.4
12 23	8 8.15	+49 49.2	2.256	3.106	10.7	20.3
1 2	7 57.14	+50 20.4	2.221	3.108	9.3	20.2
1 12	7 44.42	+50 28.0	2.212	3.110	8.8	20.2
1 22	7 31.53	+50 8.6	2.229	3.111	9.5	20.2
2 1	7 20.03	+49 22.9	2.272	3.113	11.1	20.3
2 11	7 11.17	+48 15.8	2.338	3.115	13.0	20.5
2 21	7 5.56	+46 53.8	2.426	3.117	14.8	20.6

8991 Solidarity 1 14.5 252°.26 0°.4/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.24	+19 58.9	2.238	3.064	11.7	17.7
12 23	8 1.20	+19 58.4	2.144	3.049	8.6	17.5
1 2	7 53.09	+20 1.7	2.076	3.034	5.0	17.2
1 12	7 43.64	+20 6.7	2.037	3.019	1.1	16.9
1 22	7 33.76	+20 11.4	2.028	3.004	3.0	17.0
2 1	7 24.50	+20 14.0	2.050	2.988	7.0	17.3
2 11	7 16.81	+20 14.0	2.098	2.971	10.6	17.4
2 21	7 11.34	+20 11.0	2.170	2.955	13.7	17.6

16922 1998 FR_{57} 1 14.5 88°.26 0°.8/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.58	+23 21.8	2.404	3.234	10.9	18.2
12 23	7 59.70	+23 36.4	2.338	3.247	7.9	18.1
1 2	7 52.07	+23 52.5	2.299	3.259	4.5	17.9
1 12	7 43.41	+24 7.3	2.290	3.272	1.1	17.6
1 22	7 34.59	+24 18.4	2.310	3.284	3.0	17.8
2 1	7 26.52	+24 24.3	2.361	3.296	6.4	18.0
2 11	7 19.97	+24 24.8	2.439	3.309	9.4	18.3
2 21	7 15.46	+24 20.2	2.542	3.321	12.0	18.5

237792 2002 BV_{12} 1 14.5 153°.25 1°.1/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 8.92	+16 1.8	1.814	2.640	14.1	21.0
12 23	8 2.65	+16 36.5	1.743	2.647	10.4	20.8
1 2	7 54.00	+17 21.7	1.696	2.653	6.1	20.5
1 12	7 43.83	+18 13.4	1.677	2.658	1.8	20.3
1 22	7 33.28	+19 7.1	1.688	2.663	3.5	20.4
2 1	7 23.60	+19 58.1	1.728	2.668	7.9	20.7
2 11	7 15.88	+20 43.5	1.795	2.672	11.8	20.9
2 21	7 10.80	+21 21.7	1.884	2.675	15.2	21.2

51277 2000 JK_{82} 1 14.5 64°.39 0°.3/14.6 18

12 13	8 6.57	+19 37.0	2.042	2.872	12.5	18.7
12 23	8 0.53	+19 51.4	1.989	2.897	9.1	18.5
1 2	7 52.56	+20 10.6	1.962	2.922	5.2	18.3
1 12	7 43.50	+20 31.6	1.964	2.946	1.1	18.1
1 22	7 34.37	+20 51.7	1.995	2.971	3.0	18.3
2 1	7 26.16	+21 8.8	2.056	2.995	6.9	18.6
2 11	7 19.72	+21 21.6	2.144	3.020	10.2	18.8
2 21	7 15.55	+21 29.9	2.255	3.044	13.0	19.0

59515 1999 JP_{15} 1 14.5 166°.78 4°.0/16.5 18

12 13	8 5.00	+ 7 24.4	2.218	3.014	12.9	19.6
12 23	7 59.42	+ 7 32.7	2.140	3.018	10.0	19.4
1 2	7 52.00	+ 7 55.2	2.085	3.020	6.9	19.2
1 12	7 43.42	+ 8 31.1	2.058	3.023	4.4	19.1
1 22	7 34.53	+ 9 18.0	2.061	3.025	4.6	19.1
2 1	7 26.27	+10 12.3	2.094	3.027	7.2	19.2
2 11	7 19.47	+11 10.1	2.154	3.028	10.3	19.4
2 21	7 14.71	+12 7.7	2.238	3.029	13.1	19.6

57426 2001 SW_{26} 1 14.5 23°.34 0°.0/14.4 18

12 13	8 4.16	+20 28.0	1.768	2.611	13.6	18.8
12 23	7 59.18	+20 43.5	1.706	2.620	9.9	18.6
1 2	7 51.96	+21 4.4	1.669	2.630	5.6	18.4
1 12	7 43.41	+21 27.4	1.659	2.641	1.1	18.1
1 22	7 34.62	+21 48.9	1.677	2.652	3.4	18.3
2 1	7 26.78	+22 6.5	1.722	2.665	7.7	18.6
2 11	7 20.86	+22 18.8	1.794	2.677	11.5	18.8
2 21	7 17.47	+22 25.4	1.888	2.691	14.7	19.1

367782 2010 XZ_{73} 1 14.5 7°.71 1°.6/14.8 18

12 13	8 9.49	+18 58.9	1.654	2.490	14.7	20.5
12 23	8 3.18	+18 24.3	1.581	2.490	10.9	20.3
1 2	7 54.32	+17 54.0	1.532	2.491	6.5	20.0
1 12	7 43.89	+17 27.0	1.510	2.491	2.1	19.7
1 22	7 33.16	+17 2.6	1.517	2.492	3.9	19.8
2 1	7 23.48	+16 40.4	1.552	2.493	8.5	20.1
2 11	7 15.98	+16 20.3	1.612	2.495	12.6	20.4
2 21	7 11.34	+16 2.0	1.695	2.497	16.2	20.6

235557 2004 FW_{26} 1 14.5 138°.48 3°.3/16.2 18

12 13	8 2.78	+ 9 5.0	2.545	3.344	11.3	20.5
12 23	7 57.61	+ 9 4.8	2.467	3.349	8.7	20.4
1 2	7 50.88	+ 9 15.6	2.415	3.353	5.9	20.2
1 12	7 43.20	+ 9 36.5	2.390	3.357	3.7	20.1
1 22	7 35.30	+10 6.0	2.396	3.361	3.9	20.1
2 1	7 27.94	+10 41.6	2.432	3.365	6.3	20.3
2 11	7 21.83	+11 20.5	2.495	3.369	9.1	20.4
2 21	7 17.48	+12 0.0	2.583	3.372	11.6	20.6

389423 2010 CJ_{7} 1 14.5 253°.18 1°.2/15.2 16

12 13	8 3.14	+14 40.1	2.417	3.235	11.2	20.8
12 23	7 58.07	+15 23.2	2.332	3.232	8.3	20.6
1 2	7 51.25	+16 16.0	2.274	3.229	5.0	20.3
1 12	7 43.29	+17 15.6	2.245	3.225	1.7	20.1
1 22	7 34.99	+18 18.4	2.247	3.222	2.8	20.2
2 1	7 27.19	+19 20.4	2.279	3.219	6.3	20.4
2 11	7 20.73	+20 18.4	2.340	3.215	9.5	20.6
2 21	7 16.17	+21 10.4	2.425	3.212	12.3	20.8

263756 2008 JQ_{39} 1 14.5 359°.55 7°.6/16.4 18

12 13	8 5.23	+ 5 23.1	1.530	2.340	17.0	19.7
12 23	8 0.22	+ 4 15.9	1.459	2.339	13.7	19.5
1 2	7 52.71	+ 3 25.9	1.410	2.337	10.3	19.3
1 12	7 43.60	+ 2 56.8	1.385	2.337	7.9	19.1
1 22	7 34.09	+ 2 49.3	1.387	2.337	8.1	19.1
2 1	7 25.50	+ 3 2.1	1.413	2.338	10.7	19.3
2 11	7 18.97	+ 3 30.5	1.464	2.340	14.1	19.5
2 21	7 15.22	+ 4 9.1	1.534	2.342	17.3	19.7

154468 2003 DG_{17} 1 14.5 47°.45 4°.5/16.4 18

12 13	8 4.86	+ 8 21.3	1.660	2.476	15.6	20.4
12 23	7 59.75	+ 8 26.8	1.594	2.485	12.0	20.2
1 2	7 52.35	+ 8 49.9	1.551	2.494	8.2	20.0
1 12	7 43.52	+ 9 29.3	1.534	2.503	5.0	19.8
1 22	7 34.38	+10 21.6	1.545	2.512	5.2	19.9
2 1	7 26.13	+11 21.9	1.583	2.522	8.5	20.1
2 11	7 19.82	+12 25.0	1.646	2.532	12.2	20.3
2 21	7 16.10	+13 26.1	1.732	2.542	15.5	20.6

88763 2001 SS_{66} 1 14.5 118°.43 7°.3/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 13.30	+39 44.5	1.948	2.772	13.3	19.7
12 23	8 6.17	+40 59.3	1.892	2.780	10.6	19.6
1 2	7 56.13	+42 3.4	1.861	2.789	8.2	19.4
1 12	7 44.29	+42 48.6	1.857	2.797	7.3	19.4
1 22	7 32.08	+43 9.7	1.881	2.805	8.5	19.5
2 1	7 21.08	+43 5.6	1.932	2.813	10.9	19.7
2 11	7 12.58	+42 39.8	2.006	2.820	13.5	19.8
2 21	7 7.30	+41 57.9	2.100	2.827	15.8	20.0

459537 2013 GF_{3} 1 14.5 300°.40 8°.7/17.2 18

12 13	8 5.25	+ 1 47.0	1.503	2.301	17.8	21.3
12 23	8 0.46	+ 1 0.5	1.421	2.288	14.8	21.1
1 2	7 52.99	+ 0 36.3	1.358	2.276	11.5	20.9
1 12	7 43.70	+ 0 38.1	1.319	2.264	9.1	20.7
1 22	7 33.75	+ 1 6.5	1.305	2.251	9.1	20.7
2 1	7 24.57	+ 1 58.4	1.317	2.240	11.5	20.8
2 11	7 17.43	+ 3 7.3	1.351	2.228	15.0	20.9
2 21	7 13.20	+ 4 25.5	1.406	2.217	18.5	21.1

310933 2003 SN_{286} 1 14.5 110°.21 2°.3/15.2 18

12 13	8 11.03	+15 4.9	1.880	2.698	14.0	21.3
12 23	8 3.85	+14 54.0	1.822	2.719	10.4	21.1
1 2	7 54.51	+14 51.6	1.788	2.740	6.3	20.9
1 12	7 43.93	+14 55.9	1.782	2.760	2.7	20.7
1 22	7 33.25	+15 5.1	1.807	2.780	3.8	20.9
2 1	7 23.60	+15 16.9	1.861	2.799	7.6	21.1
2 11	7 15.94	+15 29.6	1.942	2.817	11.2	21.4
2 21	7 10.81	+15 41.8	2.046	2.835	14.2	21.6

262662 2006 WT_{108} 1 14.5 342°.79 0°.9/14.1 18

12 13	8 6.11	+21 37.8	1.538	2.387	15.0	20.7
12 23	8 1.10	+22 9.4	1.465	2.382	10.9	20.4
1 2	7 53.34	+22 47.5	1.415	2.377	6.3	20.1
1 12	7 43.75	+23 27.1	1.391	2.373	1.4	19.8
1 22	7 33.66	+24 2.9	1.395	2.370	4.2	20.0
2 1	7 24.54	+24 31.2	1.425	2.367	9.1	20.2
2 11	7 17.67	+24 50.1	1.481	2.364	13.5	20.5
2 21	7 13.84	+24 59.8	1.556	2.362	17.2	20.7

427083 2014 UG_{42} 1 14.5 326°.87 7°.3/16.4 18

12 13	8 4.81	+ 4 33.9	1.713	2.514	15.9	20.1
12 23	7 59.79	+ 3 35.0	1.632	2.505	12.9	19.9
1 2	7 52.45	+ 2 52.6	1.574	2.497	9.8	19.7
1 12	7 43.57	+ 2 29.6	1.540	2.489	7.6	19.6
1 22	7 34.23	+ 2 26.8	1.533	2.481	7.8	19.6
2 1	7 25.63	+ 2 43.0	1.552	2.474	10.2	19.7
2 11	7 18.87	+ 3 14.0	1.596	2.467	13.4	19.9
2 21	7 14.65	+ 3 54.8	1.660	2.461	16.5	20.0

423622 2005 WG_{155} 1 14.5 348°.74 5°.3/12.2 18

12 13	8 7.44	+31 26.7	1.610	2.460	14.4	20.1
12 23	8 2.23	+32 38.2	1.542	2.456	10.8	19.9
1 2	7 54.05	+33 47.6	1.499	2.452	7.2	19.7
1 12	7 43.91	+34 46.1	1.481	2.449	5.3	19.5
1 22	7 33.22	+35 27.0	1.491	2.446	7.1	19.6
2 1	7 23.57	+35 46.9	1.527	2.444	10.7	19.8
2 11	7 16.36	+35 46.6	1.587	2.443	14.3	20.1
2 21	7 12.39	+35 29.9	1.666	2.442	17.5	20.3

490692 2010 NG_{5} 1 14.5 159°.35 1°.0/14.9 18

12 13	8 8.72	+16 51.3	2.085	2.906	12.7	22.3
12 23	8 2.25	+17 11.3	2.012	2.913	9.3	22.1
1 2	7 53.68	+17 38.9	1.963	2.919	5.5	21.8
1 12	7 43.81	+18 11.3	1.944	2.925	1.6	21.6
1 22	7 33.64	+18 45.1	1.955	2.930	3.2	21.7
2 1	7 24.24	+19 17.5	1.996	2.934	7.1	22.0
2 11	7 16.57	+19 46.2	2.065	2.938	10.7	22.2
2 21	7 11.24	+20 10.3	2.157	2.941	13.7	22.4

220 Stephania 1 14.5 114°.46 2°.6/15.3 18 R

12 13	8 12.06	+14 21.7	1.827	2.643	14.4	15.4
12 23	8 4.65	+14 9.3	1.769	2.665	10.7	15.2
1 2	7 55.00	+14 6.1	1.735	2.686	6.6	15.0
1 12	7 44.07	+14 10.7	1.730	2.707	3.0	14.9
1 22	7 33.03	+14 20.9	1.754	2.727	4.0	15.0
2 1	7 23.07	+14 34.5	1.808	2.746	7.8	15.2
2 11	7 15.17	+14 49.5	1.889	2.764	11.5	15.5
2 21	7 9.89	+15 4.3	1.993	2.781	14.6	15.7

47260 1999 VR_{88} 1 14.5 131°.46 3°.9/15.8 18

12 13	8 10.95	+11 21.4	1.573	2.392	16.2	19.9
12 23	8 4.27	+11 12.4	1.509	2.403	12.3	19.6
1 2	7 54.98	+11 17.7	1.467	2.414	8.0	19.4
1 12	7 44.09	+11 36.1	1.452	2.425	4.3	19.2
1 22	7 32.91	+12 4.8	1.465	2.435	5.0	19.3
2 1	7 22.81	+12 40.1	1.506	2.445	9.0	19.5
2 11	7 14.96	+13 17.9	1.573	2.453	13.0	19.8
2 21	7 10.03	+13 55.1	1.661	2.462	16.5	20.0

378953 2008 UQ_{185} 1 14.5 33°.07 1°.4/15.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 4.71	+16 36.7	2.044	2.872	12.6	21.1
12 23	7 59.38	+16 40.7	1.970	2.875	9.3	20.9
1 2	7 52.06	+16 52.1	1.922	2.878	5.6	20.7
1 12	7 43.50	+17 9.0	1.901	2.881	1.9	20.4
1 22	7 34.66	+17 28.9	1.909	2.884	3.2	20.5
2 1	7 26.57	+17 49.4	1.947	2.888	7.0	20.8
2 11	7 20.13	+18 8.6	2.011	2.892	10.6	21.0
2 21	7 15.92	+18 25.1	2.098	2.895	13.6	21.2

92654 2000 QW_{37} 1 14.5 41°.26 1°.9/15.1 18

12 13	8 8.17	+16 19.3	1.172	2.025	18.4	18.7
12 23	8 2.78	+16 25.6	1.125	2.041	13.5	18.5
1 2	7 54.28	+16 44.7	1.099	2.059	8.0	18.2
1 12	7 43.96	+17 12.9	1.097	2.078	2.6	18.0
1 22	7 33.45	+17 45.3	1.120	2.097	4.5	18.2
2 1	7 24.45	+18 17.3	1.169	2.117	9.8	18.5
2 11	7 18.25	+18 45.7	1.241	2.137	14.6	18.8
2 21	7 15.48	+19 8.5	1.333	2.158	18.5	19.1

8041 Masumoto 1 14.5 101°.44 4°.5/16.0 18

12 13	8 8.61	+ 9 14.2	1.947	2.750	14.1	16.9
12 23	8 2.07	+ 8 41.2	1.885	2.768	10.9	16.8
1 2	7 53.51	+ 8 20.8	1.848	2.786	7.5	16.6
1 12	7 43.79	+ 8 13.1	1.839	2.803	4.9	16.5
1 22	7 33.92	+ 8 17.2	1.858	2.820	5.2	16.5
2 1	7 24.96	+ 8 31.2	1.907	2.837	8.0	16.7
2 11	7 17.80	+ 8 52.0	1.982	2.853	11.2	17.0
2 21	7 12.99	+ 9 16.5	2.080	2.869	14.0	17.2

258481 2002 AL_{24} 1 14.5 0°.68 4°.0/16.2 18

12 13	8 0.36	+ 9 57.1	1.238	2.084	18.0	19.0
12 23	7 57.23	+10 24.2	1.171	2.081	13.8	18.7
1 2	7 51.25	+11 14.2	1.125	2.079	9.0	18.5
1 12	7 43.39	+12 24.7	1.103	2.078	4.7	18.2
1 22	7 35.00	+13 49.3	1.105	2.080	5.2	18.2
2 1	7 27.62	+15 19.9	1.133	2.083	9.8	18.5
2 11	7 22.60	+16 48.0	1.184	2.087	14.5	18.8
2 21	7 20.74	+18 7.5	1.255	2.093	18.6	19.1

345175 2005 TY_{65} 1 14.5 44°.16 5°.8/13.4 17

12 13	8 14.53	+32 10.2	1.075	1.937	19.0	20.3
12 23	8 7.87	+32 46.6	1.037	1.956	14.1	20.0
1 2	7 57.30	+33 14.7	1.019	1.976	9.1	19.8
1 12	7 44.55	+33 25.1	1.024	1.996	5.9	19.7
1 22	7 31.83	+33 12.8	1.054	2.018	7.8	19.9
2 1	7 21.28	+32 39.0	1.108	2.040	12.2	20.2
2 11	7 14.40	+31 49.5	1.184	2.062	16.6	20.5
2 21	7 11.67	+30 50.8	1.278	2.085	20.2	20.8

260940 2005 SA_{10} 1 14.5 33°.82 4°.9/13.4 18

12 13	8 11.40	+32 0.2	1.305	2.160	16.7	20.0
12 23	8 5.08	+32 24.0	1.263	2.179	12.4	19.8
1 2	7 55.53	+32 40.4	1.242	2.199	7.9	19.6
1 12	7 44.19	+32 42.5	1.247	2.219	5.0	19.5
1 22	7 32.86	+32 26.7	1.277	2.241	6.7	19.7
2 1	7 23.28	+31 53.7	1.333	2.264	10.7	20.0
2 11	7 16.73	+31 7.8	1.413	2.287	14.6	20.3
2 21	7 13.73	+30 13.9	1.512	2.311	17.9	20.5

278861 2008 TR_{30} 1 14.5 140°.45 0°.7/14.8 18

12 13	8 5.65	+18 6.5	2.304	3.128	11.5	21.4
12 23	7 59.87	+18 19.1	2.230	3.134	8.4	21.2
1 2	7 52.27	+18 37.5	2.182	3.139	4.9	21.0
1 12	7 43.55	+18 59.2	2.163	3.145	1.3	20.7
1 22	7 34.59	+19 21.8	2.174	3.150	2.9	20.9
2 1	7 26.30	+19 42.9	2.216	3.155	6.5	21.1
2 11	7 19.53	+20 1.1	2.285	3.159	9.8	21.3
2 21	7 14.83	+20 15.7	2.377	3.164	12.6	21.5

399767 2005 MT_{4} 1 14.5 63°.03 1°.0/14.3 18

12 13	8 14.12	+24 42.1	1.619	2.456	15.0	19.8
12 23	8 6.23	+24 30.8	1.576	2.487	10.8	19.6
1 2	7 55.87	+24 19.1	1.558	2.518	6.1	19.4
1 12	7 44.23	+24 4.0	1.568	2.550	1.5	19.2
1 22	7 32.75	+23 43.8	1.606	2.581	3.9	19.4
2 1	7 22.76	+23 18.6	1.674	2.612	8.3	19.8
2 11	7 15.27	+22 49.8	1.767	2.642	12.1	20.1
2 21	7 10.75	+22 19.2	1.883	2.673	15.2	20.3

203582 2002 CS_{232} 1 14.5 24°.94 2°.6/13.4 18

12 13	8 8.06	+23 33.1	1.323	2.179	16.5	19.5
12 23	8 2.90	+24 41.8	1.262	2.182	12.0	19.2
1 2	7 54.54	+25 57.2	1.223	2.186	7.0	19.0
1 12	7 44.07	+27 10.7	1.210	2.190	2.8	18.7
1 22	7 33.06	+28 13.9	1.224	2.195	5.5	18.9
2 1	7 23.27	+29 1.2	1.264	2.201	10.5	19.2
2 11	7 16.19	+29 31.0	1.327	2.206	15.0	19.5
2 21	7 12.64	+29 45.0	1.409	2.212	18.8	19.7

517196 2013 US_{18} 1 14.5 25°.76 4°.2/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 5.92	+30 0.2	1.947	2.790	12.5	20.5
12 23	8 0.62	+31 13.3	1.884	2.795	9.3	20.3
1 2	7 52.93	+32 25.1	1.847	2.801	6.0	20.1
1 12	7 43.72	+33 28.7	1.838	2.807	4.2	20.0
1 22	7 34.12	+34 18.4	1.857	2.814	5.8	20.2
2 1	7 25.38	+34 51.2	1.905	2.821	9.0	20.4
2 11	7 18.61	+35 7.0	1.977	2.828	12.1	20.6
2 21	7 14.48	+35 8.3	2.071	2.836	14.9	20.8

332813 2009 WX_{187} 1 14.5 203°.80 4°.3/12.2 18

12 13	8 9.56	+33 17.9	2.427	3.253	10.9	21.0
12 23	8 2.98	+34 15.1	2.349	3.249	8.3	20.8
1 2	7 54.20	+35 8.3	2.298	3.244	5.7	20.6
1 12	7 43.98	+35 52.0	2.277	3.238	4.3	20.5
1 22	7 33.33	+36 21.8	2.285	3.233	5.6	20.6
2 1	7 23.39	+36 35.7	2.322	3.226	8.2	20.7
2 11	7 15.17	+36 34.3	2.386	3.219	10.9	20.9
2 21	7 9.35	+36 20.3	2.473	3.212	13.4	21.1

503568 2016 GL_{9} 1 14.5 189°.92 0°.5/14.2 18

12 13	8 5.71	+21 22.6	2.113	2.946	12.1	21.4
12 23	8 0.16	+21 50.4	2.037	2.946	8.8	21.2
1 2	7 52.55	+22 22.7	1.986	2.946	5.0	21.0
1 12	7 43.64	+22 55.9	1.964	2.946	1.1	20.7
1 22	7 34.39	+23 26.4	1.971	2.946	3.2	20.8
2 1	7 25.85	+23 51.5	2.008	2.945	7.1	21.1
2 11	7 18.99	+24 9.9	2.072	2.945	10.7	21.3
2 21	7 14.41	+24 21.5	2.158	2.945	13.7	21.5

407272 2010 DQ_{25} 1 14.5 255°.24 2°.5/15.3 18

12 13	8 8.77	+14 13.9	1.767	2.590	14.5	21.5
12 23	8 2.85	+14 13.0	1.672	2.573	11.0	21.3
1 2	7 54.35	+14 23.0	1.602	2.555	6.9	21.0
1 12	7 44.05	+14 42.4	1.559	2.536	3.0	20.7
1 22	7 33.08	+15 8.5	1.544	2.518	4.2	20.7
2 1	7 22.77	+15 38.4	1.558	2.498	8.6	20.9
2 11	7 14.36	+16 8.9	1.598	2.478	12.9	21.1
2 21	7 8.71	+16 37.7	1.660	2.458	16.6	21.3

204820 2007 PY_{2} 1 14.5 130°.62 1°.9/13.8 18

12 13	8 13.08	+25 45.6	1.930	2.760	13.2	21.3
12 23	8 5.53	+26 11.4	1.869	2.777	9.6	21.1
1 2	7 55.59	+26 37.1	1.834	2.792	5.6	20.9
1 12	7 44.25	+26 57.8	1.827	2.807	2.1	20.7
1 22	7 32.72	+27 10.1	1.850	2.821	4.1	20.9
2 1	7 22.29	+27 12.5	1.903	2.834	8.0	21.1
2 11	7 13.99	+27 5.6	1.983	2.847	11.5	21.4
2 21	7 8.43	+26 51.4	2.086	2.858	14.5	21.6

391785 2008 QQ_{18} 1 14.5 198°.64 2°.5/15.2 18

12 13	8 11.83	+15 30.1	1.741	2.562	14.8	21.6
12 23	8 4.91	+15 10.4	1.660	2.560	11.1	21.3
1 2	7 55.42	+14 58.7	1.603	2.556	6.9	21.1
1 12	7 44.25	+14 54.1	1.574	2.552	2.9	20.8
1 22	7 32.64	+14 54.9	1.575	2.548	4.2	20.9
2 1	7 21.94	+14 59.2	1.604	2.542	8.5	21.1
2 11	7 13.34	+15 5.5	1.660	2.537	12.7	21.4
2 21	7 7.57	+15 12.4	1.737	2.530	16.2	21.6

74900 1999 TO_{124} 1 14.5 273°.56 3°.3/13.6 18

12 13	8 12.46	+29 20.9	1.640	2.481	14.6	19.1
12 23	8 5.80	+29 34.9	1.558	2.469	10.8	18.8
1 2	7 56.10	+29 45.3	1.500	2.458	6.7	18.5
1 12	7 44.41	+29 46.5	1.470	2.446	3.4	18.3
1 22	7 32.18	+29 34.5	1.467	2.435	5.4	18.4
2 1	7 21.04	+29 8.3	1.492	2.423	9.7	18.6
2 11	7 12.39	+28 30.3	1.542	2.411	13.9	18.8
2 21	7 7.05	+27 44.3	1.613	2.400	17.5	19.1

468285 2015 DO_{100} 1 14.5 246°.27 2°.2/13.3 18

12 13	8 5.84	+26 18.5	2.406	3.239	10.8	20.9
12 23	8 0.21	+27 2.9	2.321	3.229	7.9	20.7
1 2	7 52.60	+27 48.4	2.262	3.220	4.7	20.5
1 12	7 43.68	+28 30.8	2.232	3.210	2.2	20.3
1 22	7 34.34	+29 6.2	2.233	3.200	3.9	20.4
2 1	7 25.59	+29 32.0	2.263	3.189	7.2	20.6
2 11	7 18.34	+29 47.3	2.320	3.179	10.3	20.8
2 21	7 13.24	+29 53.0	2.401	3.168	13.0	21.0

227929 2007 GT_{4} 1 14.5 209°.17 1°.7/13.7 18

12 13	8 7.70	+25 40.5	2.405	3.234	10.9	21.5
12 23	8 1.48	+26 9.2	2.322	3.229	8.0	21.3
1 2	7 53.28	+26 38.6	2.265	3.223	4.7	21.1
1 12	7 43.81	+27 4.8	2.237	3.217	1.9	20.9
1 22	7 33.98	+27 24.8	2.241	3.210	3.6	21.0
2 1	7 24.81	+27 36.4	2.274	3.203	6.9	21.2
2 11	7 17.19	+27 39.5	2.335	3.196	10.1	21.4
2 21	7 11.75	+27 34.9	2.419	3.188	12.9	21.6

363021 1997 EK_1 1 14.5 215°.53 1°.4/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 9.16	+17 36.0	1.908	2.734	13.5	21.7
12 23	8 2.83	+17 30.0	1.825	2.729	10.0	21.4
1 2	7 54.17	+17 30.4	1.767	2.723	6.0	21.2
1 12	7 44.00	+17 35.2	1.737	2.718	1.9	20.9
1 22	7 33.42	+17 42.4	1.736	2.711	3.5	21.0
2 1	7 23.63	+17 49.9	1.765	2.705	7.8	21.2
2 11	7 15.71	+17 56.4	1.820	2.698	11.7	21.5
2 21	7 10.36	+18 1.2	1.898	2.690	15.1	21.7

406157 2006 WT_4 1 14.5 39°.32 1°.2/14.1 18

12 13	8 8.50	+23 12.4	1.489	2.338	15.4	21.4
12 23	8 2.76	+23 31.0	1.429	2.346	11.2	21.1
1 2	7 54.23	+23 53.1	1.393	2.355	6.4	20.9
1 12	7 44.00	+24 13.7	1.382	2.364	1.6	20.6
1 22	7 33.49	+24 28.7	1.399	2.374	4.3	20.8
2 1	7 24.20	+24 35.7	1.443	2.384	9.0	21.1
2 11	7 17.34	+24 34.5	1.511	2.394	13.3	21.4
2 21	7 13.58	+24 26.3	1.601	2.405	16.9	21.6

109508 2001 QV_{234} 1 14.5 129°.53 0°.8/14.1 18

12 13	8 5.59	+23 13.8	2.590	3.417	10.3	20.4
12 23	7 59.70	+23 35.1	2.520	3.426	7.4	20.2
1 2	7 52.13	+23 58.2	2.477	3.436	4.2	20.0
1 12	7 43.56	+24 20.0	2.463	3.445	1.1	19.8
1 22	7 34.80	+24 38.2	2.480	3.454	2.9	20.0
2 1	7 26.70	+24 51.1	2.528	3.462	6.1	20.2
2 11	7 20.00	+24 58.1	2.604	3.470	9.0	20.4
2 21	7 15.22	+24 59.5	2.704	3.478	11.5	20.6

428468 2007 UU_{86} 1 14.5 160°.70 4°.3/16.5 18

12 13	8 3.34	+ 6 32.3	2.620	3.407	11.4	21.5
12 23	7 58.00	+ 6 12.9	2.541	3.410	9.0	21.3
1 2	7 51.15	+ 6 4.8	2.486	3.413	6.4	21.1
1 12	7 43.37	+ 6 8.4	2.460	3.416	4.5	21.0
1 22	7 35.37	+ 6 22.8	2.463	3.418	4.7	21.0
2 1	7 27.89	+ 6 46.3	2.495	3.420	6.7	21.2
2 11	7 21.63	+ 7 16.1	2.556	3.422	9.2	21.3
2 21	7 17.08	+ 7 49.7	2.641	3.424	11.5	21.5

106613 2000 WN_{121} 1 14.5 247°.60 18°.7/19.1 18

12 13	8 9.14	−13 45.6	1.246	1.975	24.3	19.9
12 23	8 3.80	−16 1.9	1.183	1.971	22.3	19.7
1 2	7 55.18	−17 42.0	1.136	1.965	20.3	19.6
1 12	7 44.27	−18 33.9	1.105	1.960	19.0	19.4
1 22	7 32.56	−18 31.3	1.094	1.955	18.8	19.4
2 1	7 21.81	−17 34.7	1.101	1.949	19.7	19.4
2 11	7 13.66	−15 53.7	1.125	1.943	21.5	19.5
2 21	7 9.08	−13 42.4	1.166	1.937	23.7	19.7

424922 2008 XR_{23} 1 14.5 309°.49 1°.2/14.8 18

12 13	8 6.06	+18 41.5	1.959	2.791	12.9	20.9
12 23	8 0.61	+18 23.8	1.868	2.775	9.6	20.7
1 2	7 52.92	+18 10.7	1.802	2.760	5.7	20.4
1 12	7 43.76	+18 0.7	1.763	2.744	1.8	20.1
1 22	7 34.15	+17 52.6	1.753	2.729	3.4	20.2
2 1	7 25.23	+17 45.2	1.773	2.714	7.6	20.5
2 11	7 18.05	+17 37.6	1.818	2.699	11.5	20.7
2 21	7 13.30	+17 29.5	1.886	2.685	14.9	20.9

419056 2009 RN_{72} 1 14.5 93°.63 2°.4/13.6 18

12 13	8 8.60	+26 33.1	1.934	2.771	12.8	21.1
12 23	8 2.40	+27 5.9	1.869	2.780	9.3	20.9
1 2	7 53.87	+27 38.7	1.830	2.789	5.5	20.7
1 12	7 43.93	+28 6.6	1.819	2.798	2.5	20.5
1 22	7 33.73	+28 25.7	1.837	2.806	4.3	20.6
2 1	7 24.49	+28 34.0	1.884	2.815	8.0	20.9
2 11	7 17.25	+28 31.9	1.957	2.823	11.5	21.1
2 21	7 12.62	+28 21.1	2.053	2.832	14.5	21.3

413375 2004 HA_3 1 14.5 248°.46 1°.9/13.6 18

12 13	8 8.26	+24 36.1	1.988	2.824	12.6	21.0
12 23	8 2.34	+25 18.6	1.901	2.812	9.2	20.8
1 2	7 53.98	+26 4.3	1.840	2.799	5.4	20.5
1 12	7 43.99	+26 48.1	1.807	2.787	2.1	20.3
1 22	7 33.44	+27 25.1	1.803	2.774	4.2	20.4
2 1	7 23.59	+27 52.2	1.829	2.760	8.2	20.6
2 11	7 15.58	+28 8.2	1.881	2.747	11.9	20.8
2 21	7 10.18	+28 14.1	1.955	2.733	15.2	21.0

455908 2005 UY_{211} 1 14.5 100°.27 5°.7/16.8 18

12 13	8 6.45	+ 5 7.7	2.003	2.793	14.3	21.2
12 23	8 0.54	+ 4 36.6	1.938	2.807	11.3	21.1
1 2	7 52.69	+ 4 21.2	1.897	2.821	8.3	20.9
1 12	7 43.69	+ 4 22.1	1.882	2.835	6.1	20.8
1 22	7 34.49	+ 4 38.5	1.896	2.848	6.1	20.8
2 1	7 26.08	+ 5 7.8	1.938	2.861	8.4	21.0
2 11	7 19.35	+ 5 46.0	2.006	2.874	11.2	21.2
2 21	7 14.84	+ 6 29.0	2.097	2.887	13.9	21.4

59497 1999 JJ_7 1 14.5 346°.47 4°.2/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 4.54	+ 8 35.8	1.768	2.582	14.9	19.3
12 23	7 59.57	+ 8 43.7	1.691	2.580	11.5	19.1
1 2	7 52.34	+ 9 8.3	1.637	2.579	7.8	18.9
1 12	7 43.65	+ 9 48.7	1.609	2.578	4.7	18.7
1 22	7 34.54	+10 41.7	1.609	2.577	5.0	18.7
2 1	7 26.18	+11 42.7	1.637	2.576	8.3	18.9
2 11	7 19.61	+12 46.6	1.691	2.575	12.0	19.1
2 21	7 15.53	+13 48.9	1.768	2.575	15.4	19.3

499965 2011 KS_{14} 1 14.5 259°.86 0°.5/14.3 18

12 13	8 5.23	+21 13.2	2.270	3.101	11.4	21.4
12 23	7 59.80	+21 42.8	2.182	3.090	8.3	21.2
1 2	7 52.39	+22 17.1	2.120	3.080	4.8	21.0
1 12	7 43.66	+22 52.8	2.086	3.069	1.0	20.7
1 22	7 34.52	+23 26.2	2.083	3.058	3.1	20.8
2 1	7 25.96	+23 54.8	2.110	3.047	6.9	21.1
2 11	7 18.91	+24 16.9	2.164	3.036	10.4	21.2
2 21	7 14.01	+24 32.1	2.241	3.024	13.3	21.4

380663 2005 EF_{187} 1 14.5 210°.73 4°.1/12.6 18

12 13	8 8.23	+33 35.6	2.400	3.228	11.0	21.0
12 23	8 1.97	+34 14.6	2.325	3.226	8.3	20.9
1 2	7 53.59	+34 48.6	2.277	3.224	5.6	20.7
1 12	7 43.90	+35 12.9	2.257	3.221	4.2	20.6
1 22	7 33.90	+35 23.9	2.267	3.218	5.4	20.7
2 1	7 24.66	+35 20.4	2.306	3.216	8.0	20.8
2 11	7 17.16	+35 3.5	2.371	3.213	10.7	21.0
2 21	7 12.01	+34 36.0	2.459	3.210	13.2	21.2

63701 2001 QA_{182} 1 14.5 62°.61 9°.9/12.1 18

12 13	8 18.67	+41 40.5	1.311	2.148	17.8	18.9
12 23	8 11.01	+42 54.1	1.270	2.163	14.3	18.7
1 2	7 59.24	+43 50.0	1.251	2.179	11.2	18.6
1 12	7 45.04	+44 16.2	1.255	2.195	9.9	18.5
1 22	7 30.73	+44 7.1	1.283	2.211	11.2	18.7
2 1	7 18.62	+43 24.3	1.336	2.228	14.0	18.9
2 11	7 10.33	+42 16.2	1.410	2.244	17.1	19.1
2 21	7 6.43	+40 52.8	1.503	2.261	19.8	19.3

240810 2005 YW_{230} 1 14.5 251°.74 0°.7/14.3 18

12 13	8 11.68	+23 1.0	1.655	2.493	14.6	20.2
12 23	8 5.14	+23 3.5	1.569	2.481	10.8	19.9
1 2	7 55.73	+23 8.3	1.508	2.468	6.2	19.6
1 12	7 44.38	+23 11.7	1.473	2.455	1.4	19.3
1 22	7 32.44	+23 10.4	1.467	2.442	4.0	19.4
2 1	7 21.44	+23 2.6	1.490	2.429	9.0	19.7
2 11	7 12.72	+22 48.6	1.537	2.415	13.5	19.9
2 21	7 7.11	+22 29.9	1.607	2.401	17.3	20.1

406165 2006 WC_{40} 1 14.5 99°.68 2°.7/15.7 18

12 13	8 8.88	+12 12.4	2.007	2.817	13.5	21.9
12 23	8 2.23	+12 19.3	1.951	2.843	10.1	21.8
1 2	7 53.62	+12 37.2	1.920	2.868	6.4	21.6
1 12	7 43.90	+13 4.1	1.917	2.892	3.1	21.4
1 22	7 34.06	+13 37.2	1.945	2.916	3.8	21.5
2 1	7 25.14	+14 13.2	2.002	2.939	7.2	21.8
2 11	7 18.01	+14 49.4	2.086	2.962	10.5	22.0
2 21	7 13.19	+15 23.4	2.195	2.984	13.4	22.3

493162 2014 TN_{74} 1 14.5 126°.21 0°.1/14.4 18

12 13	8 8.09	+19 45.9	2.130	2.956	12.2	22.0
12 23	8 1.78	+20 19.9	2.064	2.970	8.9	21.8
1 2	7 53.44	+20 59.2	2.025	2.983	5.1	21.6
1 12	7 43.88	+21 40.2	2.014	2.996	1.0	21.4
1 22	7 34.07	+22 19.1	2.034	3.009	3.1	21.5
2 1	7 25.07	+22 52.9	2.083	3.020	7.0	21.8
2 11	7 17.78	+23 20.0	2.161	3.032	10.4	22.0
2 21	7 12.79	+23 40.2	2.261	3.043	13.3	22.3

250138 2002 RD_{52} 1 14.5 111°.55 0°.1/14.5 18

12 13	8 9.71	+19 47.6	1.956	2.784	13.1	21.3
12 23	8 3.02	+20 17.4	1.896	2.803	9.5	21.2
1 2	7 54.16	+20 52.7	1.862	2.821	5.4	20.9
1 12	7 44.02	+21 29.4	1.857	2.840	1.1	20.7
1 22	7 33.69	+22 3.8	1.882	2.857	3.3	20.9
2 1	7 24.31	+22 33.0	1.937	2.874	7.3	21.2
2 11	7 16.85	+22 55.5	2.018	2.891	10.9	21.4
2 21	7 11.87	+23 11.3	2.123	2.907	13.9	21.6

210359 2007 UO_{49} 1 14.5 236°.06 3°.4/15.7 18

12 13	8 7.39	+11 52.5	1.776	2.595	14.6	20.7
12 23	8 1.70	+11 47.1	1.693	2.589	11.2	20.5
1 2	7 53.62	+11 54.5	1.634	2.582	7.3	20.3
1 12	7 43.95	+12 13.6	1.601	2.575	3.8	20.0
1 22	7 33.79	+12 42.1	1.597	2.568	4.5	20.1
2 1	7 24.39	+13 16.7	1.621	2.560	8.4	20.3
2 11	7 16.86	+13 54.1	1.671	2.553	12.3	20.5
2 21	7 11.94	+14 30.9	1.744	2.545	15.8	20.7

313446 2002 RA_{178} 1 14.5 72°.70 2°.5/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 11.76	+27 3.1	1.603	2.446	14.8	20.9
12 23	8 4.94	+27 21.4	1.548	2.461	10.8	20.7
1 2	7 55.40	+27 38.2	1.517	2.477	6.3	20.5
1 12	7 44.28	+27 48.5	1.513	2.492	2.7	20.3
1 22	7 33.01	+27 48.7	1.537	2.507	4.7	20.4
2 1	7 23.06	+27 37.8	1.589	2.523	9.0	20.7
2 11	7 15.59	+27 17.4	1.666	2.538	12.9	21.0
2 21	7 11.20	+26 50.0	1.764	2.553	16.1	21.2

241142 2007 RA_{7} 1 14.5 150°.52 0°.0/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.69	+20 58.3	1.884	2.712	13.5	20.6
12 23	8 4.60	+21 0.9	1.814	2.720	9.9	20.4
1 2	7 55.14	+21 7.1	1.769	2.728	5.7	20.2
1 12	7 44.24	+21 13.9	1.752	2.735	1.2	19.9
1 22	7 33.08	+21 18.7	1.766	2.741	3.4	20.1
2 1	7 22.91	+21 19.7	1.809	2.747	7.7	20.3
2 11	7 14.78	+21 16.7	1.879	2.752	11.6	20.6
2 21	7 9.33	+21 10.1	1.971	2.757	14.8	20.8

427661 2004 BP_{8} 1 14.5 335°.80 0°.8/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.71	+19 20.0	2.040	2.872	12.5	20.7
12 23	8 0.20	+19 10.7	1.960	2.868	9.2	20.5
1 2	7 52.61	+19 5.9	1.905	2.864	5.4	20.2
1 12	7 43.73	+19 3.7	1.878	2.860	1.4	19.9
1 22	7 34.53	+19 2.4	1.881	2.857	3.2	20.1
2 1	7 26.08	+19 0.6	1.912	2.853	7.2	20.3
2 11	7 19.33	+18 57.5	1.971	2.851	10.8	20.5
2 21	7 14.89	+18 52.7	2.052	2.848	13.9	20.7

358973 2008 RS_{146} 1 14.5 33°.39 4°.6/15.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.98	+11 53.8	1.119	1.967	19.4	20.3
12 23	8 2.04	+11 32.5	1.070	1.980	14.7	20.1
1 2	7 53.97	+11 29.5	1.041	1.994	9.6	19.8
1 12	7 44.01	+11 43.7	1.034	2.009	5.2	19.6
1 22	7 33.81	+12 11.9	1.053	2.025	5.9	19.7
2 1	7 25.07	+12 48.9	1.096	2.042	10.5	20.0
2 11	7 19.12	+13 29.4	1.161	2.060	15.1	20.3
2 21	7 16.62	+14 8.8	1.246	2.078	19.1	20.6

439990 2001 XB_{235} 1 14.5 72°.15 2°.1/14.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.07	+17 32.8	1.374	2.209	17.2	20.8
12 23	8 7.22	+17 4.8	1.332	2.239	12.6	20.6
1 2	7 56.60	+16 44.8	1.311	2.268	7.5	20.4
1 12	7 44.50	+16 31.1	1.318	2.298	2.7	20.2
1 22	7 32.51	+16 21.9	1.352	2.327	4.4	20.4
2 1	7 22.14	+16 15.7	1.414	2.356	9.1	20.7
2 11	7 14.51	+16 11.4	1.501	2.384	13.4	21.0
2 21	7 10.12	+16 8.1	1.609	2.412	16.8	21.3

518542 2006 VA_{76} 1 14.5 91°.82 0°.4/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.07	+19 2.8	1.368	2.206	17.1	21.8
12 23	8 7.43	+19 20.7	1.322	2.232	12.5	21.6
1 2	7 56.84	+19 46.3	1.298	2.258	7.2	21.4
1 12	7 44.58	+20 14.8	1.302	2.284	1.6	21.1
1 22	7 32.26	+20 41.4	1.333	2.309	4.1	21.3
2 1	7 21.51	+21 3.0	1.391	2.333	9.2	21.7
2 11	7 13.55	+21 18.2	1.475	2.356	13.7	22.0
2 21	7 8.96	+21 27.4	1.580	2.379	17.3	22.3

167871 2005 ER_{27} 1 14.5 313°.09 0°.8/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.66	+18 14.7	1.449	2.295	15.9	20.3
12 23	8 1.75	+18 28.8	1.368	2.282	11.8	20.0
1 2	7 53.91	+18 52.8	1.309	2.270	6.9	19.7
1 12	7 44.06	+19 23.2	1.276	2.258	1.7	19.3
1 22	7 33.53	+19 55.7	1.269	2.246	4.1	19.4
2 1	7 23.90	+20 26.1	1.290	2.235	9.4	19.7
2 11	7 16.59	+20 51.5	1.334	2.224	14.2	20.0
2 21	7 12.48	+21 10.6	1.398	2.213	18.3	20.2

400050 2006 SR_{26} 1 14.5 103°.17 5°.7/17.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.99	+ 3 45.1	1.883	2.670	15.1	21.1
12 23	8 1.05	+ 3 48.5	1.820	2.688	12.0	21.0
1 2	7 53.06	+ 4 11.2	1.780	2.705	8.7	20.8
1 12	7 43.83	+ 4 52.6	1.767	2.722	6.1	20.7
1 22	7 34.38	+ 5 49.7	1.782	2.739	6.0	20.7
2 1	7 25.78	+ 6 57.9	1.826	2.755	8.4	20.9
2 11	7 18.96	+ 8 11.5	1.897	2.771	11.5	21.1
2 21	7 14.48	+ 9 25.2	1.990	2.786	14.3	21.3

263049 2007 HM_{30} 1 14.5 337°.59 2°.2/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.30	+14 32.3	1.831	2.659	13.9	20.7
12 23	8 0.10	+14 37.4	1.753	2.656	10.4	20.5
1 2	7 52.65	+14 53.0	1.700	2.654	6.4	20.3
1 12	7 43.77	+15 17.3	1.674	2.652	2.7	20.0
1 22	7 34.49	+15 47.2	1.676	2.650	3.7	20.1
2 1	7 25.99	+16 19.6	1.707	2.649	7.8	20.3
2 11	7 19.29	+16 51.6	1.763	2.647	11.6	20.6
2 21	7 15.06	+17 20.9	1.842	2.646	15.0	20.8

276356 2002 UQ_{52} 1 14.5 101°.16 4°.8/17.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 3.52	+ 4 55.9	2.336	3.122	12.6	20.9
12 23	7 58.28	+ 4 52.4	2.265	3.132	10.0	20.7
1 2	7 51.38	+ 5 3.6	2.218	3.143	7.2	20.5
1 12	7 43.49	+ 5 29.3	2.198	3.153	5.1	20.4
1 22	7 35.38	+ 6 7.5	2.208	3.164	5.1	20.4
2 1	7 27.89	+ 6 55.4	2.247	3.174	7.2	20.6
2 11	7 21.77	+ 7 49.1	2.313	3.184	9.8	20.8
2 21	7 17.53	+ 8 44.7	2.403	3.194	12.3	21.0

179925 2002 VO_{59} 1 14.5 26°.25 0°.8/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.90	+17 15.6	1.437	2.283	16.0	19.4
12 23	8 0.98	+17 46.5	1.374	2.289	11.7	19.2
1 2	7 53.31	+18 28.8	1.335	2.295	6.9	18.9
1 12	7 43.91	+19 18.0	1.321	2.303	1.7	18.6
1 22	7 34.13	+20 8.5	1.333	2.310	3.9	18.8
2 1	7 25.42	+20 55.4	1.373	2.318	8.9	19.1
2 11	7 19.03	+21 35.2	1.438	2.327	13.4	19.4
2 21	7 15.67	+22 6.5	1.523	2.337	17.1	19.7

31967 2000 HW_{4} 1 14.5 225°.31 8°.4/ 8.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.15	+50 23.8	2.773	3.550	11.1	18.6
12 23	8 7.49	+51 43.2	2.706	3.541	9.6	18.4
1 2	7 57.03	+52 49.0	2.663	3.531	8.6	18.4
1 12	7 44.69	+53 34.0	2.647	3.521	8.5	18.3
1 22	7 31.74	+53 53.9	2.657	3.510	9.2	18.4
2 1	7 19.68	+53 47.8	2.694	3.499	10.6	18.4
2 11	7 9.81	+53 18.5	2.753	3.487	12.2	18.5
2 21	7 2.94	+52 31.4	2.831	3.476	13.7	18.7

433455 2013 UP_{7} 1 14.5 24°.96 11°.9/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.33	+51 26.3	1.718	2.518	15.9	20.2
12 23	8 9.18	+52 44.2	1.680	2.530	13.8	20.1
1 2	7 58.18	+53 39.4	1.663	2.542	12.3	20.1
1 12	7 44.88	+54 2.1	1.670	2.555	11.9	20.1
1 22	7 31.44	+53 47.9	1.699	2.569	12.6	20.1
2 1	7 20.00	+52 58.7	1.751	2.584	14.2	20.3
2 11	7 12.10	+51 42.1	1.824	2.599	16.1	20.5
2 21	7 8.33	+50 7.1	1.915	2.615	18.0	20.6

440404 2005 NT_{64} 1 14.5 109°.75 1°.5/15.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.96	+16 24.1	1.584	2.411	15.7	22.6
12 23	8 5.69	+16 35.1	1.528	2.432	11.6	22.4
1 2	7 55.81	+16 55.7	1.497	2.453	6.8	22.1
1 12	7 44.41	+17 22.3	1.493	2.473	2.2	21.9
1 22	7 32.84	+17 51.2	1.517	2.493	3.9	22.0
2 1	7 22.52	+18 19.0	1.571	2.511	8.5	22.4
2 11	7 14.56	+18 43.4	1.650	2.529	12.6	22.6
2 21	7 9.58	+19 3.4	1.751	2.546	16.0	22.9

157958 2000 DL_{86} 1 14.5 275°.71 1°.4/14.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.32	+21 44.1	1.441	2.289	15.9	20.1
12 23	8 3.86	+22 29.8	1.360	2.277	11.7	19.8
1 2	7 55.24	+23 23.9	1.302	2.264	6.8	19.5
1 12	7 44.37	+24 20.3	1.270	2.252	1.8	19.1
1 22	7 32.71	+25 11.8	1.265	2.239	4.7	19.3
2 1	7 21.97	+25 53.1	1.287	2.227	10.0	19.5
2 11	7 13.71	+26 21.8	1.333	2.214	14.9	19.8
2 21	7 8.88	+26 38.4	1.399	2.201	18.9	20.0

210813 2001 KV_{22} 1 14.5 161°.23 0°.8/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.76	+17 53.9	2.343	3.160	11.6	21.6
12 23	8 2.13	+18 2.5	2.268	3.168	8.5	21.4
1 2	7 53.62	+18 16.5	2.219	3.174	5.0	21.2
1 12	7 43.97	+18 33.6	2.199	3.180	1.4	20.9
1 22	7 34.07	+18 51.6	2.211	3.186	2.9	21.0
2 1	7 24.88	+19 8.4	2.253	3.190	6.5	21.3
2 11	7 17.24	+19 22.6	2.323	3.194	9.8	21.5
2 21	7 11.73	+19 33.7	2.418	3.197	12.6	21.7

243405 2009 BN_{24} 1 14.5 250°.97 0°.1/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.08	+21 17.0	1.657	2.495	14.6	20.6
12 23	8 3.90	+21 19.9	1.577	2.488	10.7	20.3
1 2	7 54.99	+21 27.1	1.521	2.481	6.2	20.1
1 12	7 44.29	+21 35.2	1.491	2.474	1.3	19.7
1 22	7 33.08	+21 41.0	1.491	2.467	3.8	19.9
2 1	7 22.83	+21 42.6	1.518	2.459	8.7	20.2
2 11	7 14.78	+21 39.2	1.571	2.452	13.0	20.4
2 21	7 9.72	+21 31.5	1.646	2.444	16.7	20.6

223194 2003 BP_{4} 1 14.5 216°.31 3°.5/16.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.90	+ 9 29.0	2.345	3.144	12.2	21.8
12 23	8 0.15	+ 9 29.8	2.254	3.136	9.4	21.6
1 2	7 52.57	+ 9 42.2	2.188	3.128	6.4	21.4
1 12	7 43.78	+10 5.7	2.150	3.119	3.8	21.2
1 22	7 34.60	+10 38.3	2.143	3.109	4.1	21.2
2 1	7 25.95	+11 17.5	2.165	3.099	7.0	21.3
2 11	7 18.68	+12 0.0	2.216	3.088	10.1	21.5
2 21	7 13.40	+12 43.1	2.290	3.077	13.0	21.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
412331 2013 KM_{14}			1 14.5 151°.86		1°.0/14.1 18	
	h m	° ′			°	m
12 13	8 8.24	+21 47.8	1.796	2.634	13.7	21.6
12 23	8 2.36	+22 25.2	1.725	2.636	9.9	21.3
1 2	7 54.01	+23 7.8	1.677	2.638	5.7	21.1
1 12	7 44.08	+23 50.9	1.658	2.640	1.4	20.8
1 22	7 33.75	+24 29.6	1.668	2.642	3.8	21.0
2 1	7 24.30	+25 0.6	1.706	2.643	8.2	21.2
2 11	7 16.87	+25 22.4	1.770	2.645	12.1	21.5
2 21	7 12.15	+25 35.2	1.856	2.646	15.4	21.7
29939 1999 JS_{52}			1 14.5 285°.00		3°.7/16.1 18	
12 13	8 3.48	+ 9 39.1	2.338	3.142	12.0	18.8
12 23	7 58.36	+ 9 22.0	2.254	3.138	9.3	18.6
1 2	7 51.50	+ 9 15.5	2.194	3.134	6.4	18.4
1 12	7 43.56	+ 9 19.7	2.163	3.129	4.0	18.2
1 22	7 35.31	+ 9 33.3	2.161	3.125	4.3	18.2
2 1	7 27.63	+ 9 54.6	2.188	3.121	6.9	18.4
2 11	7 21.30	+10 20.9	2.243	3.117	9.9	18.6
2 21	7 16.89	+10 49.7	2.321	3.113	12.6	18.7
400111 2006 TB_{129}			1 14.5 62°.21		2°.3/15.4 18	
12 13	8 7.52	+14 8.2	1.578	2.409	15.5	21.2
12 23	8 1.80	+14 18.7	1.522	2.426	11.6	20.9
1 2	7 53.63	+14 41.5	1.488	2.443	7.1	20.7
1 12	7 44.01	+15 13.8	1.481	2.460	2.9	20.5
1 22	7 34.17	+15 51.7	1.503	2.477	4.0	20.6
2 1	7 25.42	+16 31.2	1.551	2.495	8.3	20.9
2 11	7 18.81	+17 8.8	1.626	2.512	12.3	21.2
2 21	7 14.98	+17 42.3	1.722	2.529	15.7	21.5
433715 2014 YQ_{4}			1 14.5 357°.29		0°.5/14.3 15	
12 13	8 2.99	+21 12.6	1.452	2.309	15.3	20.7
12 23	7 58.98	+21 33.0	1.383	2.304	11.2	20.4
1 2	7 52.25	+22 0.1	1.336	2.300	6.4	20.1
1 12	7 43.76	+22 29.4	1.315	2.297	1.3	19.8
1 22	7 34.82	+22 56.6	1.320	2.296	4.0	20.0
2 1	7 26.87	+23 17.9	1.351	2.296	9.0	20.3
2 11	7 21.18	+23 31.7	1.406	2.298	13.5	20.5
2 21	7 18.48	+23 37.7	1.481	2.300	17.3	20.8
187585 2006 WC_{82}			1 14.5 34°.54		0°.1/14.5 18	
12 13	8 6.83	+19 41.6	1.553	2.397	15.1	20.1
12 23	8 1.54	+20 12.5	1.489	2.403	11.0	19.9
1 2	7 53.61	+20 51.3	1.448	2.410	6.3	19.6
1 12	7 44.03	+21 33.4	1.434	2.416	1.3	19.3
1 22	7 34.08	+22 13.7	1.447	2.423	3.8	19.5
2 1	7 25.16	+22 48.2	1.488	2.431	8.6	19.8
2 11	7 18.47	+23 14.8	1.554	2.439	12.9	20.1
2 21	7 14.70	+23 33.0	1.641	2.447	16.4	20.3
362237 2009 KP_{1}			1 14.5 144°.14		3°.9/12.6 18	
12 13	8 11.22	+31 8.4	2.283	3.110	11.5	21.6
12 23	8 4.19	+32 11.0	2.220	3.122	8.6	21.4
1 2	7 54.93	+33 10.6	2.184	3.133	5.6	21.2
1 12	7 44.28	+34 1.1	2.177	3.144	3.9	21.1
1 22	7 33.33	+34 38.0	2.201	3.154	5.3	21.2
2 1	7 23.21	+34 59.2	2.254	3.164	8.1	21.4
2 11	7 14.95	+35 5.3	2.334	3.172	11.0	21.6
2 21	7 9.18	+34 59.1	2.436	3.180	13.4	21.8
56884 2000 QK_{125}			1 14.5 155°.29		0°.4/14.4 18	
12 13	8 6.05	+22 36.5	2.582	3.408	10.4	19.8
12 23	8 0.08	+22 36.7	2.505	3.411	7.5	19.6
1 2	7 52.42	+22 38.3	2.454	3.413	4.3	19.4
1 12	7 43.76	+22 39.2	2.433	3.416	0.9	19.1
1 22	7 34.89	+22 37.7	2.443	3.418	2.7	19.3
2 1	7 26.67	+22 32.9	2.484	3.420	6.0	19.5
2 11	7 19.87	+22 24.4	2.553	3.422	9.0	19.7
2 21	7 14.97	+22 12.7	2.646	3.424	11.6	19.9
157386 2004 TQ_{180}			1 14.5 194°.03		0°.8/14.2 18	
12 13	8 7.42	+22 36.4	2.232	3.061	11.6	20.9
12 23	8 1.39	+23 1.1	2.152	3.060	8.5	20.7
1 2	7 53.33	+23 28.8	2.099	3.058	4.9	20.5
1 12	7 43.97	+23 56.0	2.074	3.056	1.2	20.2
1 22	7 34.27	+24 19.4	2.080	3.054	3.2	20.3
2 1	7 25.26	+24 36.9	2.116	3.051	7.0	20.6
2 11	7 17.89	+24 47.5	2.179	3.048	10.4	20.8
2 21	7 12.75	+24 51.5	2.265	3.044	13.3	21.0
142747 2002 TJ_{295}			1 14.5 140°.49		4°.7/12.9 18	
12 13	8 14.73	+34 38.8	2.115	2.939	12.4	20.4
12 23	8 6.79	+35 10.0	2.053	2.950	9.4	20.2
1 2	7 56.40	+35 33.7	2.016	2.961	6.4	20.1
1 12	7 44.58	+35 44.3	2.008	2.971	4.7	20.0
1 22	7 32.59	+35 38.5	2.029	2.980	5.9	20.1
2 1	7 21.73	+35 16.2	2.080	2.989	8.7	20.3
2 11	7 13.09	+34 40.0	2.157	2.998	11.7	20.5
2 21	7 7.25	+33 54.3	2.257	3.006	14.2	20.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
158173 2001 QH_{247}			1 14.5 123°.28		3°.0/15.7 18	
	h m	° ′			°	m
12 13	8 10.23	+11 58.2	1.707	2.523	15.2	20.3
12 23	8 3.66	+12 10.7	1.643	2.538	11.5	20.1
1 2	7 54.68	+12 36.8	1.604	2.553	7.3	19.9
1 12	7 44.24	+13 14.2	1.592	2.567	3.5	19.7
1 22	7 33.54	+13 59.0	1.608	2.581	4.3	19.8
2 1	7 23.83	+14 47.0	1.654	2.594	8.2	20.0
2 11	7 16.20	+15 34.1	1.726	2.606	12.1	20.3
2 21	7 11.28	+16 17.7	1.821	2.618	15.4	20.5
124336 2001 QZ_{109}			1 14.5 99°.28		1°.5/13.9 17	
12 13	8 12.21	+22 19.1	1.510	2.351	15.6	20.3
12 23	8 5.44	+23 6.9	1.456	2.369	11.3	20.1
1 2	7 55.83	+23 59.7	1.425	2.386	6.5	19.9
1 12	7 44.48	+24 51.0	1.422	2.403	1.8	19.6
1 22	7 32.88	+25 34.8	1.447	2.420	4.4	19.8
2 1	7 22.55	+26 7.2	1.499	2.436	9.1	20.1
2 11	7 14.75	+26 27.7	1.577	2.452	13.3	20.4
2 21	7 10.15	+26 37.3	1.676	2.468	16.8	20.7
245051 2004 FK_{80}			1 14.5 7°.29		2°.0/13.8 18	
12 13	8 5.28	+25 27.0	1.814	2.660	13.2	20.4
12 23	8 0.21	+25 55.5	1.746	2.661	9.6	20.2
1 2	7 52.77	+26 25.3	1.702	2.663	5.6	19.9
1 12	7 43.87	+26 51.9	1.685	2.665	2.2	19.7
1 22	7 34.63	+27 11.3	1.696	2.668	4.2	19.9
2 1	7 26.30	+27 21.2	1.735	2.671	8.2	20.1
2 11	7 19.94	+27 21.3	1.800	2.675	11.9	20.3
2 21	7 16.21	+27 12.9	1.886	2.680	15.1	20.6
292016 2006 QU_{145}			1 14.5 34°.34		2°.3/15.4 18	
12 13	8 6.17	+14 37.4	1.262	2.110	17.6	20.5
12 23	8 1.26	+14 51.6	1.213	2.127	13.1	20.2
1 2	7 53.48	+15 20.4	1.186	2.144	7.9	20.0
1 12	7 44.01	+16 0.2	1.182	2.162	3.0	19.7
1 22	7 34.32	+16 45.8	1.205	2.181	4.4	19.9
2 1	7 25.95	+17 31.8	1.254	2.201	9.3	20.2
2 11	7 20.12	+18 14.0	1.326	2.222	13.8	20.5
2 21	7 17.45	+18 49.8	1.419	2.243	17.6	20.8
268750 2006 QW_{65}			1 14.5 129°.39		0°.8/14.8 17	
12 13	8 12.22	+17 53.8	1.394	2.233	16.8	21.8
12 23	8 5.67	+18 15.9	1.331	2.241	12.4	21.5
1 2	7 56.09	+18 48.1	1.290	2.250	7.2	21.2
1 12	7 44.57	+19 25.9	1.276	2.258	1.8	20.9
1 22	7 32.65	+20 4.1	1.289	2.266	4.1	21.1
2 1	7 21.98	+20 38.3	1.330	2.273	9.4	21.4
2 11	7 13.92	+21 6.0	1.395	2.280	14.1	21.7
2 21	7 9.22	+21 26.6	1.481	2.286	18.0	22.0
111393 2001 XY_{165}			1 14.5 207°.24		1°.9/15.4 18	
12 13	8 3.68	+14 37.7	2.564	3.378	10.8	20.3
12 23	7 58.39	+14 34.0	2.481	3.377	8.1	20.1
1 2	7 51.49	+14 37.1	2.424	3.375	5.0	19.9
1 12	7 43.60	+14 46.1	2.397	3.374	2.2	19.7
1 22	7 35.46	+14 59.4	2.399	3.372	3.0	19.7
2 1	7 27.85	+15 15.2	2.432	3.370	6.0	19.9
2 11	7 21.53	+15 31.9	2.493	3.368	9.0	20.1
2 21	7 17.00	+15 48.1	2.578	3.366	11.6	20.3
246346 2007 TK_{301}			1 14.5 252°.39		2°.3/13.5 17	
12 13	8 6.24	+27 25.9	2.432	3.264	10.7	21.2
12 23	8 0.51	+27 57.2	2.347	3.255	7.9	21.0
1 2	7 52.83	+28 28.2	2.289	3.246	4.7	20.8
1 12	7 43.90	+28 54.9	2.259	3.237	2.3	20.6
1 22	7 34.59	+29 14.1	2.260	3.227	3.9	20.7
2 1	7 25.90	+29 23.9	2.291	3.218	7.1	20.9
2 11	7 18.73	+29 24.1	2.349	3.208	10.1	21.0
2 21	7 13.70	+29 15.9	2.430	3.198	12.8	21.2
48253 2001 UK_{22}			1 14.5 255°.87		3°.6/13.1 18	
12 13	8 8.54	+32 36.2	2.447	3.275	10.8	19.0
12 23	8 2.20	+33 0.1	2.364	3.266	8.1	18.8
1 2	7 53.80	+33 19.3	2.307	3.256	5.3	18.6
1 12	7 44.09	+33 29.7	2.279	3.247	3.6	18.5
1 22	7 34.06	+33 28.2	2.280	3.237	4.8	18.6
2 1	7 24.75	+33 14.0	2.311	3.227	7.6	18.7
2 11	7 17.11	+32 48.1	2.369	3.217	10.5	18.9
2 21	7 11.77	+32 13.3	2.450	3.207	13.0	19.0
135384 2001 TT_{166}			1 14.5 153°.74		2°.0/13.6 18	
12 13	8 6.94	+28 11.3	2.899	3.723	9.4	20.4
12 23	8 0.62	+28 28.8	2.826	3.730	6.9	20.2
1 2	7 52.71	+28 44.4	2.781	3.736	4.1	20.1
1 12	7 43.86	+28 55.4	2.766	3.743	2.0	19.9
1 22	7 34.84	+28 59.6	2.782	3.749	3.3	20.0
2 1	7 26.45	+28 56.1	2.829	3.754	6.0	20.2
2 11	7 19.41	+28 45.3	2.904	3.759	8.6	20.4
2 21	7 14.20	+28 28.3	3.004	3.764	10.8	20.5

179090 2001 SK_{165} 1 14.5 54°.35 2°.5/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 9.57	+26 29.4	1.649	2.493	14.3	20.4
12 23	8 3.48	+26 56.8	1.586	2.500	10.5	20.2
1 2	7 54.71	+27 24.3	1.547	2.507	6.2	19.9
1 12	7 44.30	+27 46.4	1.535	2.515	2.6	19.7
1 22	7 33.58	+27 58.9	1.552	2.522	4.7	19.9
2 1	7 24.00	+27 59.9	1.595	2.530	8.9	20.1
2 11	7 16.74	+27 50.1	1.664	2.537	12.8	20.4
2 21	7 12.47	+27 31.8	1.754	2.545	16.1	20.6

298970 2004 VN_{40} 1 14.5 102°.47 2°.2/15.3 18

12 13	8 9.59	+14 56.9	1.580	2.409	15.6	21.3
12 23	8 3.40	+15 0.4	1.516	2.420	11.6	21.0
1 2	7 54.63	+15 15.1	1.476	2.431	7.1	20.8
1 12	7 44.28	+15 38.5	1.463	2.442	2.8	20.6
1 22	7 33.64	+16 7.1	1.477	2.452	4.1	20.7
2 1	7 24.06	+16 37.4	1.520	2.462	8.5	21.0
2 11	7 16.71	+17 6.5	1.588	2.472	12.7	21.2
2 21	7 12.25	+17 32.4	1.678	2.482	16.2	21.5

454863 2015 SN_{19} 1 14.5 66°.33 0°.2/14.4 17

12 13	8 9.66	+18 30.8	1.348	2.194	16.8	20.9
12 23	8 3.81	+19 25.4	1.296	2.211	12.2	20.6
1 2	7 55.00	+20 30.9	1.266	2.228	7.0	20.4
1 12	7 44.36	+21 40.4	1.262	2.245	1.4	20.1
1 22	7 33.42	+22 46.4	1.286	2.262	4.2	20.3
2 1	7 23.78	+23 43.1	1.337	2.280	9.4	20.6
2 11	7 16.75	+24 27.7	1.412	2.297	13.9	21.0
2 21	7 13.01	+24 59.9	1.508	2.314	17.6	21.2

367398 2008 PW_{11} 1 14.5 123°.11 1°.5/15.4 18

12 13	8 6.18	+14 34.3	2.567	3.376	10.9	21.4
12 23	8 0.10	+14 55.5	2.501	3.395	8.1	21.2
1 2	7 52.43	+15 24.2	2.461	3.413	4.9	21.0
1 12	7 43.82	+15 58.3	2.451	3.430	1.9	20.9
1 22	7 35.04	+16 35.1	2.473	3.447	2.8	20.9
2 1	7 26.90	+17 12.2	2.525	3.463	5.9	21.2
2 11	7 20.12	+17 47.2	2.606	3.478	8.8	21.4
2 21	7 15.18	+18 18.9	2.712	3.493	11.3	21.6

89760 2002 AZ_{56} 1 14.5 104°.33 1°.2/15.1 18

12 13	8 6.10	+15 54.0	1.932	2.759	13.3	20.2
12 23	8 0.60	+16 21.1	1.860	2.764	9.8	20.0
1 2	7 52.96	+16 57.8	1.813	2.769	5.8	19.8
1 12	7 43.95	+17 41.1	1.793	2.774	1.8	19.5
1 22	7 34.61	+18 27.1	1.803	2.778	3.3	19.6
2 1	7 26.03	+19 11.9	1.842	2.783	7.4	19.9
2 11	7 19.21	+19 52.6	1.907	2.788	11.1	20.1
2 21	7 14.78	+20 27.6	1.996	2.792	14.3	20.3

223742 2004 RS_{167} 1 14.5 126°.67 5°.0/16.6 18

12 13	8 5.11	+ 6 59.6	1.993	2.793	14.0	20.5
12 23	7 59.78	+ 6 41.1	1.916	2.794	11.0	20.3
1 2	7 52.45	+ 6 37.3	1.863	2.796	7.8	20.1
1 12	7 43.85	+ 6 48.4	1.836	2.797	5.3	20.0
1 22	7 34.93	+ 7 13.2	1.838	2.798	5.5	20.0
2 1	7 26.69	+ 7 48.9	1.868	2.799	8.1	20.2
2 11	7 20.07	+ 8 31.7	1.925	2.800	11.2	20.4
2 21	7 15.68	+ 9 17.5	2.004	2.801	14.2	20.6

466888 2015 DK_{112} 1 14.5 308°.66 2°.1/13.4 17

12 13	8 5.42	+24 43.3	2.175	3.011	11.6	21.1
12 23	8 0.12	+25 42.9	2.097	3.008	8.5	20.9
1 2	7 52.71	+26 45.6	2.046	3.006	5.0	20.7
1 12	7 43.92	+27 46.4	2.024	3.003	2.2	20.5
1 22	7 34.70	+28 40.3	2.032	3.001	4.0	20.6
2 1	7 26.13	+29 23.8	2.069	2.998	7.6	20.8
2 11	7 19.19	+29 55.3	2.133	2.996	10.9	21.0
2 21	7 14.54	+30 15.4	2.220	2.994	13.7	21.2

492744 2014 QX_{134} 1 14.5 197°.04 2°.7/13.6 18

12 13	8 11.15	+27 12.8	1.875	2.711	13.3	22.3
12 23	8 4.53	+27 47.0	1.800	2.709	9.7	22.1
1 2	7 55.33	+28 21.0	1.749	2.707	5.9	21.8
1 12	7 44.46	+28 49.3	1.726	2.704	2.8	21.6
1 22	7 33.16	+29 7.5	1.733	2.701	4.7	21.8
2 1	7 22.79	+29 13.4	1.769	2.698	8.6	22.0
2 11	7 14.53	+29 7.5	1.830	2.694	12.3	22.2
2 21	7 9.12	+28 52.0	1.914	2.690	15.5	22.4

132208 2002 EG_{57} 1 14.5 206°.41 1°.3/15.0 18

12 13	8 9.51	+16 48.3	1.956	2.779	13.3	20.5
12 23	8 3.15	+16 56.5	1.872	2.774	9.9	20.2
1 2	7 54.48	+17 12.6	1.813	2.768	5.9	20.0
1 12	7 44.29	+17 34.1	1.782	2.762	1.9	19.7
1 22	7 33.66	+17 58.0	1.781	2.756	3.4	19.8
2 1	7 23.76	+18 21.8	1.809	2.749	7.6	20.0
2 11	7 15.67	+18 43.3	1.864	2.741	11.5	20.2
2 21	7 10.10	+19 1.3	1.943	2.732	14.8	20.5

11561 1993 FZ_{24} 1 14.5 117°.39 1°.4/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 8.47	+24 37.7	2.056	2.889	12.3	19.0
12 23	8 2.24	+24 58.4	1.987	2.897	9.0	18.8
1 2	7 53.85	+25 20.3	1.944	2.904	5.2	18.6
1 12	7 44.14	+25 39.5	1.930	2.911	1.7	18.4
1 22	7 34.19	+25 52.7	1.945	2.918	3.6	18.5
2 1	7 25.10	+25 58.3	1.990	2.925	7.4	18.8
2 11	7 17.85	+25 56.1	2.062	2.931	10.9	19.0
2 21	7 13.04	+25 47.3	2.156	2.937	13.8	19.2

85158 Phyllistrapp 1 14.5 101°.60 0°.3/14.5 18

12 13	8 15.78	+21 33.1	1.724	2.551	14.7	19.7
12 23	8 7.51	+21 42.0	1.675	2.581	10.6	19.5
1 2	7 56.78	+21 53.9	1.651	2.610	6.0	19.3
1 12	7 44.72	+22 5.1	1.655	2.638	1.2	19.1
1 22	7 32.66	+22 12.5	1.690	2.665	3.6	19.3
2 1	7 21.94	+22 14.7	1.754	2.691	8.0	19.6
2 11	7 13.60	+22 11.6	1.845	2.717	11.9	19.9
2 21	7 8.17	+22 4.4	1.958	2.741	15.0	20.2

136338 2004 CT_{14} 1 14.5 160°.17 2°.0/15.8 18

12 13	8 3.51	+12 16.2	2.670	3.476	10.6	20.6
12 23	7 58.24	+12 39.6	2.590	3.480	8.0	20.4
1 2	7 51.42	+13 12.3	2.536	3.484	5.1	20.3
1 12	7 43.65	+13 52.5	2.512	3.487	2.4	20.1
1 22	7 35.62	+14 37.7	2.518	3.490	2.9	20.1
2 1	7 28.10	+15 25.0	2.555	3.493	5.8	20.3
2 11	7 21.78	+16 11.6	2.621	3.496	8.7	20.5
2 21	7 17.17	+16 55.6	2.712	3.498	11.2	20.7

99232 2001 KP_{4} 1 14.5 216°.39 3°.8/16.1 18

12 13	8 4.82	+ 9 29.0	2.335	3.136	12.1	19.5
12 23	7 59.36	+ 9 9.0	2.251	3.133	9.4	19.3
1 2	7 52.14	+ 8 59.6	2.192	3.129	6.5	19.1
1 12	7 43.81	+ 9 0.8	2.161	3.126	4.1	18.9
1 22	7 35.18	+ 9 11.7	2.159	3.122	4.4	18.9
2 1	7 27.12	+ 9 30.5	2.187	3.119	7.0	19.1
2 11	7 20.45	+ 9 54.8	2.242	3.115	10.0	19.3
2 21	7 15.72	+10 21.8	2.321	3.111	12.7	19.4

492422 2014 LJ_{12} 1 14.5 151°.22 0°.9/14.2 18

12 13	8 11.48	+22 23.1	1.943	2.772	13.1	22.1
12 23	8 4.52	+22 52.0	1.874	2.781	9.6	21.9
1 2	7 55.21	+23 24.3	1.831	2.790	5.5	21.7
1 12	7 44.45	+23 55.7	1.816	2.798	1.3	21.4
1 22	7 33.38	+24 22.2	1.832	2.805	3.6	21.6
2 1	7 23.24	+24 41.3	1.877	2.812	7.7	21.9
2 11	7 15.09	+24 52.3	1.949	2.818	11.4	22.1
2 21	7 9.57	+24 55.9	2.044	2.823	14.6	22.3

221815 2008 EY_{4} 1 14.5 268°.86 2°.3/15.2 18

12 13	8 9.29	+15 55.0	2.009	2.828	13.2	20.1
12 23	8 3.08	+15 31.3	1.906	2.805	9.9	19.9
1 2	7 54.52	+15 13.8	1.829	2.782	6.2	19.6
1 12	7 44.34	+15 1.7	1.780	2.758	2.7	19.3
1 22	7 33.56	+14 54.0	1.760	2.733	3.8	19.4
2 1	7 23.36	+14 49.6	1.770	2.708	7.9	19.6
2 11	7 14.85	+14 47.4	1.807	2.683	11.8	19.7
2 21	7 8.81	+14 46.5	1.867	2.658	15.3	19.9

104103 2000 EW_{43} 1 14.5 305°.54 0°.0/14.5 18 R

12 13	8 5.00	+20 8.7	1.998	2.834	12.6	19.8
12 23	7 59.94	+20 28.9	1.911	2.821	9.2	19.6
1 2	7 52.68	+20 55.0	1.847	2.808	5.3	19.3
1 12	7 43.96	+21 23.7	1.812	2.795	1.1	19.0
1 22	7 34.76	+21 51.8	1.806	2.782	3.3	19.1
2 1	7 26.20	+22 16.2	1.829	2.770	7.5	19.4
2 11	7 19.33	+22 35.2	1.878	2.757	11.3	19.6
2 21	7 14.84	+22 48.3	1.950	2.745	14.6	19.8

239704 2008 YG_{168} 1 14.6 340°.25 2°.7/13.2 18

12 13	8 4.99	+26 15.7	2.038	2.880	12.1	20.0
12 23	7 59.96	+27 14.4	1.962	2.875	8.9	19.8
1 2	7 52.70	+28 15.4	1.912	2.871	5.3	19.5
1 12	7 43.96	+29 13.0	1.889	2.867	2.7	19.4
1 22	7 34.78	+30 2.0	1.896	2.863	4.6	19.5
2 1	7 26.29	+30 38.9	1.932	2.859	8.1	19.7
2 11	7 19.56	+31 2.6	1.993	2.856	11.5	19.9
2 21	7 15.27	+31 14.2	2.077	2.854	14.4	20.1

245107 2004 PG_{79} 1 14.6 129°.14 3°.7/15.9 18

12 13	8 9.97	+11 2.4	1.721	2.534	15.2	21.0
12 23	8 3.50	+10 57.9	1.655	2.547	11.6	20.8
1 2	7 54.66	+11 7.0	1.612	2.558	7.6	20.6
1 12	7 44.35	+11 28.6	1.597	2.570	4.1	20.4
1 22	7 33.77	+11 59.8	1.610	2.580	4.7	20.5
2 1	7 24.15	+12 37.1	1.652	2.590	8.3	20.7
2 11	7 16.56	+13 16.7	1.720	2.600	12.1	21.0
2 21	7 11.65	+13 55.4	1.811	2.609	15.4	21.2

256018 2006 UE_{26} 1 14.6 15°.43 0°.2/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 7.62	+20 55.2	1.512	2.358	15.3	20.7
12 23	8 2.26	+21 9.7	1.445	2.360	11.2	20.5
1 2	7 54.14	+21 30.2	1.401	2.362	6.4	20.2
1 12	7 44.28	+21 52.5	1.383	2.365	1.3	19.9
1 22	7 34.03	+22 12.7	1.392	2.368	3.9	20.1
2 1	7 24.85	+22 27.7	1.429	2.372	8.9	20.3
2 11	7 17.99	+22 36.3	1.490	2.376	13.2	20.6
2 21	7 14.15	+22 38.6	1.572	2.380	16.9	20.9

154106 2002 EK_{8} 1 14.6 235°.43 0°.2/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.86	+20 38.7	1.976	2.810	12.8	20.3
12 23	8 1.22	+20 57.5	1.899	2.808	9.3	20.1
1 2	7 53.37	+21 21.3	1.847	2.807	5.4	19.8
1 12	7 44.11	+21 46.8	1.824	2.806	1.1	19.5
1 22	7 34.50	+22 10.5	1.829	2.805	3.3	19.7
2 1	7 25.65	+22 29.9	1.864	2.803	7.4	19.9
2 11	7 18.58	+22 43.8	1.925	2.802	11.2	20.2
2 21	7 13.95	+22 51.8	2.009	2.801	14.3	20.4

457605 2009 BB_{42} 1 14.6 280°.26 1°.3/15.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.39	+15 55.3	1.604	2.439	15.2	21.2
12 23	8 2.20	+16 22.0	1.516	2.424	11.3	20.9
1 2	7 54.24	+17 1.4	1.450	2.408	6.8	20.6
1 12	7 44.35	+17 50.2	1.410	2.392	2.1	20.3
1 22	7 33.71	+18 43.6	1.399	2.375	3.9	20.4
2 1	7 23.79	+19 36.4	1.416	2.359	8.9	20.6
2 11	7 15.93	+20 24.6	1.457	2.343	13.5	20.8
2 21	7 11.03	+21 5.7	1.520	2.327	17.5	21.1

162988 2001 RN_{128} 1 14.6 70°.25 4°.5/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.50	+33 46.5	2.216	3.048	11.6	19.6
12 23	8 2.30	+34 29.5	2.154	3.056	8.8	19.4
1 2	7 53.92	+35 7.1	2.118	3.065	6.0	19.2
1 12	7 44.22	+35 33.8	2.110	3.073	4.5	19.2
1 22	7 34.27	+35 46.2	2.131	3.082	5.7	19.2
2 1	7 25.23	+35 43.0	2.181	3.091	8.3	19.4
2 11	7 18.08	+35 25.8	2.256	3.100	11.1	19.6
2 21	7 13.41	+34 57.6	2.354	3.108	13.6	19.8

413532 2005 SS_{93} 1 14.6 57°.38 6°.6/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.20	+36 30.6	1.687	2.524	14.4	20.9
12 23	8 5.61	+37 32.2	1.635	2.536	11.1	20.7
1 2	7 56.04	+38 24.5	1.607	2.548	8.1	20.5
1 12	7 44.67	+38 59.4	1.606	2.561	6.6	20.5
1 22	7 33.04	+39 11.8	1.632	2.574	7.9	20.6
2 1	7 22.76	+39 1.0	1.684	2.587	10.8	20.8
2 11	7 15.13	+38 30.4	1.760	2.600	13.9	21.0
2 21	7 10.80	+37 45.7	1.856	2.614	16.6	21.2

249560 4176 $P\text{–}L$ 1 14.6 150°.79 1°.0/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.08	+17 49.3	2.063	2.883	12.8	21.1
12 23	8 3.34	+17 54.9	1.991	2.893	9.4	20.9
1 2	7 54.48	+18 6.5	1.945	2.901	5.5	20.7
1 12	7 44.34	+18 21.9	1.928	2.909	1.6	20.5
1 22	7 33.94	+18 38.4	1.941	2.916	3.2	20.6
2 1	7 24.37	+18 53.9	1.984	2.923	7.1	20.8
2 11	7 16.59	+19 6.8	2.055	2.929	10.7	21.1
2 21	7 11.19	+19 16.7	2.149	2.934	13.7	21.3

95861 2003 GU_{12} 1 14.6 288°.82 8°.0/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.40	+40 44.5	1.850	2.675	13.9	19.1
12 23	8 6.88	+41 51.6	1.767	2.655	11.2	18.9
1 2	7 57.06	+42 48.7	1.709	2.635	8.9	18.7
1 12	7 44.94	+43 26.4	1.677	2.615	8.0	18.6
1 22	7 32.06	+43 38.0	1.671	2.595	9.3	18.6
2 1	7 20.20	+43 21.5	1.691	2.575	12.0	18.7
2 11	7 10.96	+42 40.2	1.735	2.555	15.0	18.9
2 21	7 5.26	+41 40.6	1.798	2.536	17.7	19.0

252457 2001 TH_{224} 1 14.6 347°.29 6°.8/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.09	+ 9 35.2	1.343	2.176	17.6	18.9
12 23	8 0.62	+ 8 17.6	1.268	2.166	14.0	18.6
1 2	7 53.33	+ 7 13.2	1.215	2.156	10.0	18.3
1 12	7 44.15	+ 6 25.9	1.185	2.148	7.1	18.2
1 22	7 34.43	+ 5 57.9	1.181	2.142	7.7	18.2
2 1	7 25.68	+ 5 48.8	1.201	2.136	11.1	18.3
2 11	7 19.23	+ 5 55.5	1.244	2.132	15.2	18.6
2 21	7 15.90	+ 6 13.3	1.306	2.129	18.9	18.8

83508 2001 SK_{127} 1 14.6 238°.99 1°.0/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.76	+23 8.6	1.849	2.686	13.4	20.1
12 23	8 2.78	+23 27.5	1.771	2.682	9.8	19.8
1 2	7 54.35	+23 49.5	1.718	2.678	5.6	19.6
1 12	7 44.34	+24 10.4	1.693	2.675	1.5	19.3
1 22	7 33.90	+24 26.6	1.696	2.671	3.7	19.4
2 1	7 24.33	+24 35.9	1.729	2.666	8.1	19.7
2 11	7 16.74	+24 37.6	1.787	2.662	12.0	19.9
2 21	7 11.84	+24 32.5	1.868	2.658	15.3	20.1

331247 2011 BN_{149} 1 14.6 199°.64 2°.3/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 8.23	+26 31.0	2.084	2.919	12.1	21.6
12 23	8 2.21	+27 8.6	2.009	2.918	8.9	21.3
1 2	7 53.95	+27 46.7	1.958	2.917	5.3	21.1
1 12	7 44.25	+28 20.6	1.937	2.915	2.4	20.9
1 22	7 34.16	+28 46.2	1.945	2.913	4.2	21.0
2 1	7 24.86	+29 1.2	1.982	2.911	7.8	21.3
2 11	7 17.37	+29 5.3	2.045	2.909	11.2	21.5
2 21	7 12.36	+29 0.0	2.131	2.906	14.2	21.7

398813 2013 BJ_{40} 1 14.6 207°.21 1°.0/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.72	+16 53.6	2.052	2.872	12.9	21.8
12 23	8 3.28	+17 13.3	1.965	2.866	9.6	21.6
1 2	7 54.58	+17 41.2	1.903	2.859	5.7	21.3
1 12	7 44.39	+18 14.4	1.870	2.851	1.7	21.0
1 22	7 33.72	+18 49.5	1.868	2.843	3.2	21.1
2 1	7 23.72	+19 23.2	1.895	2.834	7.4	21.4
2 11	7 15.44	+19 53.3	1.950	2.824	11.2	21.6
2 21	7 9.58	+20 18.6	2.028	2.813	14.5	21.8

83563 2001 SO_{211} 1 14.6 342°.07 2°.7/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.13	+27 52.9	2.009	2.850	12.3	19.2
12 23	8 0.78	+28 23.7	1.933	2.845	9.0	19.0
1 2	7 53.15	+28 53.7	1.883	2.841	5.5	18.8
1 12	7 44.09	+29 18.4	1.860	2.837	2.8	18.6
1 22	7 34.64	+29 34.0	1.866	2.833	4.5	18.7
2 1	7 26.01	+29 38.4	1.900	2.830	8.1	18.9
2 11	7 19.22	+29 31.9	1.960	2.827	11.5	19.1
2 21	7 14.93	+29 16.3	2.042	2.824	14.5	19.3

101356 1998 TD_{36} 1 14.6 83°.79 0°.9/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.29	+22 55.8	2.068	2.902	12.3	20.5
12 23	8 1.35	+23 18.6	2.004	2.914	8.9	20.3
1 2	7 53.34	+23 44.0	1.966	2.926	5.1	20.1
1 12	7 44.10	+24 8.3	1.956	2.938	1.3	19.9
1 22	7 34.65	+24 28.3	1.976	2.950	3.3	20.1
2 1	7 26.06	+24 42.0	2.026	2.962	7.1	20.3
2 11	7 19.23	+24 48.7	2.102	2.974	10.6	20.5
2 21	7 14.75	+24 49.0	2.201	2.986	13.5	20.8

189114 2001 UO_{165} 1 14.6 153°.75 1°.2/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.23	+25 54.5	3.994	4.816	7.1	20.7
12 23	7 56.24	+26 23.9	3.919	4.823	5.1	20.6
1 2	7 50.17	+26 53.4	3.872	4.829	3.0	20.5
1 12	7 43.44	+27 20.9	3.856	4.835	1.3	20.3
1 22	7 36.56	+27 44.5	3.873	4.841	2.3	20.4
2 1	7 30.04	+28 3.1	3.920	4.847	4.4	20.6
2 11	7 24.38	+28 16.1	3.997	4.852	6.4	20.7
2 21	7 19.94	+28 23.7	4.100	4.857	8.2	20.9

42438 2317 $T\text{-}3$ 1 14.6 319°.29 2°.2/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.75	+24 53.2	1.399	2.252	15.9	18.4
12 23	8 3.54	+25 19.8	1.322	2.241	11.7	18.1
1 2	7 55.13	+25 49.5	1.268	2.230	6.9	17.8
1 12	7 44.55	+26 16.2	1.239	2.220	2.4	17.5
1 22	7 33.31	+26 34.5	1.237	2.210	5.0	17.6
2 1	7 23.13	+26 41.2	1.261	2.201	10.1	17.9
2 11	7 15.55	+26 36.2	1.309	2.193	14.9	18.1
2 21	7 11.44	+26 21.5	1.376	2.184	18.9	18.4

207336 2005 GV_{225} 1 14.6 179°.89 0°.5/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.77	+21 43.1	2.329	3.159	11.2	20.6
12 23	8 0.16	+22 6.9	2.252	3.159	8.2	20.4
1 2	7 52.66	+22 34.2	2.200	3.159	4.7	20.2
1 12	7 43.98	+23 2.0	2.177	3.160	1.0	19.9
1 22	7 35.00	+23 27.1	2.185	3.159	3.0	20.1
2 1	7 26.67	+23 47.3	2.222	3.159	6.6	20.3
2 11	7 19.85	+24 1.6	2.287	3.159	9.9	20.5
2 21	7 15.12	+24 9.9	2.376	3.158	12.7	20.7

444033 2004 PE_{29} 1 14.6 83°.52 0°.8/14.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.91	+22 53.7	1.460	2.301	16.1	21.5
12 23	8 6.65	+23 0.9	1.409	2.321	11.7	21.3
1 2	7 56.52	+23 10.8	1.381	2.342	6.7	21.1
1 12	7 44.77	+23 18.9	1.380	2.362	1.5	20.8
1 22	7 32.93	+23 21.9	1.407	2.382	4.1	21.0
2 1	7 22.54	+23 18.2	1.462	2.402	9.0	21.3
2 11	7 14.81	+23 8.3	1.542	2.422	13.3	21.6
2 21	7 10.32	+22 53.8	1.643	2.441	16.8	21.9

166217 2002 ED_{148} 1 14.6 220°.95 1°.1/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.30	+22 42.0	1.881	2.713	13.3	21.2
12 23	8 3.96	+23 12.7	1.797	2.706	9.8	21.0
1 2	7 55.09	+23 47.5	1.738	2.698	5.7	20.7
1 12	7 44.53	+24 22.0	1.708	2.690	1.5	20.4
1 22	7 33.43	+24 51.7	1.707	2.681	3.8	20.6
2 1	7 23.12	+25 13.4	1.735	2.671	8.2	20.8
2 11	7 14.78	+25 26.2	1.790	2.661	12.2	21.0
2 21	7 9.18	+25 30.7	1.867	2.651	15.6	21.2

98572 2000 WJ_{30} 1 14.6 184°.03 0°.8/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 11.12	+22 20.4	1.919	2.749	13.2	20.4
12 23	8 4.40	+22 43.2	1.843	2.750	9.7	20.2
1 2	7 55.25	+23 9.5	1.791	2.750	5.6	19.9
1 12	7 44.54	+23 35.3	1.767	2.749	1.3	19.6
1 22	7 33.44	+23 56.7	1.774	2.748	3.6	19.8
2 1	7 23.19	+24 11.3	1.810	2.746	7.9	20.0
2 11	7 14.93	+24 18.5	1.873	2.744	11.7	20.3
2 21	7 9.33	+24 18.9	1.958	2.741	15.0	20.5

282349 2003 BA_{56} 1 14.6 41°.07 2°.0/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.14	+14 14.5	1.455	2.293	16.2	20.0
12 23	8 1.08	+14 43.8	1.399	2.308	12.0	19.8
1 2	7 53.41	+15 27.3	1.365	2.322	7.3	19.5
1 12	7 44.16	+16 20.9	1.358	2.338	2.7	19.3
1 22	7 34.62	+17 19.3	1.377	2.354	4.0	19.4
2 1	7 26.18	+18 16.8	1.424	2.370	8.6	19.7
2 11	7 20.00	+19 9.2	1.496	2.387	12.9	20.0
2 21	7 16.71	+19 53.8	1.589	2.404	16.5	20.3

148815 2001 UD_{118} 1 14.6 2°.50 0°.0/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.42	+19 55.2	1.313	2.171	16.5	19.6
12 23	8 0.26	+20 12.9	1.249	2.169	12.1	19.3
1 2	7 53.15	+20 39.1	1.206	2.169	7.0	19.0
1 12	7 44.13	+21 9.6	1.187	2.170	1.5	18.6
1 22	7 34.65	+21 39.4	1.194	2.172	4.2	18.8
2 1	7 26.30	+22 4.5	1.227	2.175	9.5	19.2
2 11	7 20.42	+22 22.6	1.284	2.179	14.2	19.4
2 21	7 17.78	+22 33.2	1.360	2.185	18.2	19.7

428802 2008 TB_{9} 1 14.6 21°.19 2°.3/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.27	+25 2.5	1.358	2.218	15.9	20.2
12 23	8 0.66	+25 37.4	1.312	2.234	11.5	19.9
1 2	7 53.21	+26 14.2	1.287	2.250	6.7	19.7
1 12	7 44.11	+26 46.9	1.288	2.269	2.5	19.5
1 22	7 34.82	+27 10.4	1.315	2.288	4.9	19.7
2 1	7 26.85	+27 22.2	1.368	2.309	9.5	20.0
2 11	7 21.40	+27 22.3	1.445	2.331	13.6	20.3
2 21	7 19.05	+27 12.5	1.541	2.353	17.0	20.6

301103 2008 VB_{30} 1 14.6 193°.05 4°.0/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.54	+29 44.4	1.788	2.623	13.8	21.2
12 23	8 6.52	+30 34.4	1.715	2.622	10.3	21.0
1 2	7 56.63	+31 22.4	1.666	2.620	6.5	20.8
1 12	7 44.86	+32 1.5	1.645	2.618	4.0	20.6
1 22	7 32.58	+32 26.0	1.653	2.614	5.8	20.7
2 1	7 21.32	+32 33.6	1.689	2.611	9.5	20.9
2 11	7 12.40	+32 25.4	1.751	2.606	13.2	21.2
2 21	7 6.60	+32 4.8	1.834	2.601	16.4	21.4

415775 2000 UH_{93} 1 14.6 73°.79 2°.8/15.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.76	+14 3.4	1.838	2.659	14.1	20.6
12 23	8 2.40	+13 43.0	1.782	2.679	10.6	20.5
1 2	7 53.93	+13 32.1	1.749	2.700	6.6	20.3
1 12	7 44.26	+13 29.6	1.745	2.720	3.2	20.1
1 22	7 34.47	+13 33.9	1.769	2.741	4.0	20.2
2 1	7 25.69	+13 43.0	1.822	2.761	7.6	20.5
2 11	7 18.82	+13 54.8	1.902	2.782	11.2	20.7
2 21	7 14.41	+14 7.4	2.004	2.802	14.2	21.0

129434 5013 $T\text{-}_{3}$ 1 14.6 79°.25 0°.2/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.87	+19 27.6	1.871	2.705	13.3	20.0
12 23	8 1.28	+20 6.9	1.805	2.714	9.7	19.8
1 2	7 53.43	+20 53.2	1.763	2.723	5.6	19.6
1 12	7 44.19	+21 42.2	1.750	2.732	1.1	19.3
1 22	7 34.62	+22 29.2	1.766	2.741	3.4	19.5
2 1	7 25.90	+23 10.6	1.811	2.751	7.6	19.7
2 11	7 19.06	+23 44.2	1.882	2.760	11.4	20.0
2 21	7 14.72	+24 9.4	1.976	2.769	14.5	20.2

381214 2007 RM_{193} 1 14.6 148°.08 3°.4/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.89	+ 8 32.2	2.562	3.357	11.4	21.6
12 23	7 58.56	+ 8 34.1	2.485	3.363	8.8	21.4
1 2	7 51.66	+ 8 47.2	2.432	3.369	6.0	21.2
1 12	7 43.81	+ 9 10.9	2.409	3.374	3.8	21.1
1 22	7 35.72	+ 9 43.3	2.415	3.379	3.9	21.1
2 1	7 28.17	+10 22.0	2.451	3.384	6.3	21.3
2 11	7 21.88	+11 4.0	2.515	3.388	9.0	21.5
2 21	7 17.33	+11 46.6	2.604	3.392	11.5	21.6

242613 2005 JH_{108} 1 14.6 281°.17 1°.0/14.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.77	+21 24.0	2.276	3.108	11.4	20.1
12 23	7 59.58	+22 17.9	2.194	3.103	8.3	19.9
1 2	7 52.44	+23 17.5	2.139	3.099	4.7	19.7
1 12	7 44.00	+24 18.3	2.113	3.095	1.3	19.5
1 22	7 35.14	+25 15.9	2.117	3.090	3.3	19.6
2 1	7 26.86	+26 6.5	2.151	3.086	6.9	19.8
2 11	7 20.06	+26 47.8	2.213	3.082	10.3	20.0
2 21	7 15.40	+27 19.5	2.298	3.078	13.1	20.2

493361 2014 WC_{55} 1 14.6 135°.16 4°.9/16.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.89	+ 6 37.5	2.209	2.999	13.1	21.3
12 23	8 0.88	+ 6 8.8	2.137	3.008	10.3	21.1
1 2	7 53.05	+ 5 53.1	2.090	3.018	7.4	20.9
1 12	7 44.12	+ 5 51.1	2.070	3.026	5.2	20.8
1 22	7 34.95	+ 6 1.9	2.079	3.035	5.4	20.8
2 1	7 26.49	+ 6 23.5	2.118	3.043	7.6	21.0
2 11	7 19.54	+ 6 52.8	2.183	3.051	10.5	21.2
2 21	7 14.65	+ 7 26.4	2.272	3.058	13.1	21.4

42640 1998 FX_{63} 1 14.6 271°.40 1°.6/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.32	+23 12.1	1.642	2.484	14.5	19.5
12 23	8 3.65	+23 49.3	1.557	2.471	10.7	19.2
1 2	7 55.12	+24 31.6	1.496	2.457	6.2	18.9
1 12	7 44.62	+25 13.8	1.462	2.444	1.9	18.6
1 22	7 33.42	+25 50.1	1.457	2.430	4.4	18.7
2 1	7 23.05	+26 16.5	1.479	2.416	9.2	19.0
2 11	7 14.88	+26 31.9	1.526	2.402	13.6	19.2
2 21	7 9.78	+26 37.0	1.594	2.388	17.4	19.4

545 Messalina 1 14.6 161°.85 2°.7/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.60	+30 47.1	2.891	3.714	9.5	14.6
12 23	8 1.21	+31 8.0	2.818	3.719	7.0	14.5
1 2	7 53.17	+31 25.6	2.771	3.723	4.4	14.3
1 12	7 44.14	+31 36.8	2.755	3.727	2.7	14.2
1 22	7 34.93	+31 39.2	2.770	3.730	3.8	14.3
2 1	7 26.37	+31 32.1	2.815	3.734	6.3	14.4
2 11	7 19.19	+31 16.1	2.888	3.737	8.8	14.6
2 21	7 13.91	+30 52.9	2.986	3.739	11.0	14.8

330095 2005 WC_{115} 1 14.6 39°.40 1°.4/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.93	+22 50.5	1.810	2.651	13.4	20.6
12 23	8 1.49	+23 33.6	1.741	2.654	9.8	20.4
1 2	7 53.65	+24 21.3	1.697	2.658	5.6	20.1
1 12	7 44.28	+25 8.3	1.680	2.662	1.7	19.9
1 22	7 34.52	+25 49.8	1.692	2.666	3.9	20.0
2 1	7 25.63	+26 22.3	1.733	2.670	8.1	20.3
2 11	7 18.72	+26 44.3	1.799	2.674	12.0	20.5
2 21	7 14.46	+26 56.5	1.887	2.678	15.2	20.8

235569 2004 HC_{53} 1 14.6 251°.97 7°.9/ 8.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.17	+47 54.1	2.800	3.588	10.7	20.6
12 23	8 6.18	+49 25.1	2.725	3.571	9.2	20.5
1 2	7 56.51	+50 45.0	2.675	3.555	8.2	20.4
1 12	7 44.92	+51 46.6	2.652	3.537	8.0	20.3
1 22	7 32.56	+52 24.8	2.657	3.520	8.9	20.4
2 1	7 20.83	+52 37.9	2.688	3.502	10.4	20.4
2 11	7 11.01	+52 27.8	2.742	3.484	12.1	20.5
2 21	7 4.00	+51 58.9	2.816	3.466	13.7	20.6

329956 2005 QW_{101} 1 14.6 149°.39 1°.2/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.02	+17 0.6	2.070	2.893	12.7	22.0
12 23	8 1.91	+17 9.4	1.997	2.899	9.4	21.8
1 2	7 53.73	+17 25.3	1.949	2.904	5.6	21.6
1 12	7 44.29	+17 45.9	1.929	2.910	1.7	21.4
1 22	7 34.55	+18 8.5	1.939	2.915	3.1	21.5
2 1	7 25.58	+18 30.7	1.980	2.919	7.0	21.7
2 11	7 18.31	+18 50.6	2.047	2.924	10.6	22.0
2 21	7 13.35	+19 7.2	2.137	2.928	13.6	22.2

153334 2001 OO_{52} 1 14.6 63°.98 5°.4/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.42	+31 20.4	1.289	2.140	17.1	19.7
12 23	8 7.69	+32 12.2	1.240	2.155	12.8	19.5
1 2	7 57.44	+32 58.5	1.214	2.169	8.3	19.3
1 12	7 45.07	+33 30.2	1.213	2.184	5.4	19.2
1 22	7 32.47	+33 41.2	1.238	2.200	7.3	19.3
2 1	7 21.59	+33 30.4	1.289	2.215	11.4	19.6
2 11	7 13.90	+33 1.7	1.362	2.230	15.5	19.9
2 21	7 10.06	+32 20.7	1.455	2.246	18.9	20.1

322826 2001 ST_{255} 1 14.6 69°.51 8°.0/18.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.42	− 0 46.3	1.757	2.528	16.7	20.0
12 23	8 1.46	− 1 16.2	1.708	2.556	13.7	19.9
1 2	7 53.42	− 1 22.9	1.681	2.583	10.7	19.8
1 12	7 44.21	− 1 5.2	1.678	2.611	8.5	19.7
1 22	7 34.89	− 0 25.0	1.702	2.638	8.2	19.7
2 1	7 26.57	+ 0 33.3	1.752	2.665	9.8	19.9
2 11	7 20.13	+ 1 43.3	1.828	2.692	12.3	20.1
2 21	7 16.10	+ 2 58.3	1.927	2.719	14.9	20.3

455768 2005 NF_{41} 1 14.6 210°.61 0°.8/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.57	+16 45.3	2.087	2.909	12.6	22.0
12 23	8 1.73	+17 18.1	2.002	2.904	9.3	21.7
1 2	7 53.74	+17 59.8	1.942	2.899	5.5	21.5
1 12	7 44.32	+18 47.3	1.911	2.893	1.5	21.2
1 22	7 34.44	+19 36.5	1.911	2.886	3.1	21.3
2 1	7 25.19	+20 23.6	1.940	2.880	7.2	21.6
2 11	7 17.58	+21 5.8	1.997	2.872	10.9	21.8
2 21	7 12.28	+21 41.6	2.077	2.864	14.1	22.0

455759 2005 MR_{26} 1 14.6 99°.08 0°.0/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 9.06	+19 13.0	1.937	2.766	13.2	21.8
12 23	8 2.70	+19 48.7	1.879	2.785	9.6	21.6
1 2	7 54.19	+20 30.8	1.846	2.805	5.5	21.4
1 12	7 44.39	+21 15.0	1.842	2.824	1.1	21.1
1 22	7 34.38	+21 57.0	1.867	2.843	3.2	21.3
2 1	7 25.31	+22 33.7	1.922	2.861	7.3	21.6
2 11	7 18.11	+23 3.3	2.004	2.879	10.9	21.9
2 21	7 13.38	+23 25.4	2.109	2.896	13.9	22.1

335859 2007 RE_{43} 1 14.6 144°.56 3°.7/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.71	+33 8.6	2.461	3.286	10.8	20.9
12 23	8 3.01	+33 34.3	2.392	3.291	8.1	20.7
1 2	7 54.31	+33 54.7	2.349	3.296	5.4	20.6
1 12	7 44.41	+34 5.6	2.335	3.301	3.7	20.5
1 22	7 34.30	+34 4.3	2.351	3.306	4.9	20.6
2 1	7 25.03	+33 50.0	2.396	3.310	7.5	20.7
2 11	7 17.47	+33 24.4	2.469	3.314	10.2	20.9
2 21	7 12.21	+32 50.0	2.565	3.318	12.6	21.1

444320 2005 WU_{18} 1 14.6 52°.08 2°.0/13.9 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.48	+22 57.7	1.155	2.013	18.2	21.3
12 23	8 5.51	+23 43.9	1.113	2.034	13.2	21.0
1 2	7 56.15	+24 35.4	1.092	2.055	7.5	20.8
1 12	7 44.81	+25 24.1	1.095	2.076	2.3	20.5
1 22	7 33.30	+26 3.0	1.124	2.098	5.2	20.8
2 1	7 23.47	+26 28.3	1.179	2.121	10.5	21.2
2 11	7 16.72	+26 39.8	1.256	2.143	15.1	21.5
2 21	7 13.67	+26 39.8	1.353	2.166	18.9	21.8

168489 1999 RM_{150} 1 14.6 96°.01 0°.5/14.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.44	+21 23.5	1.761	2.592	14.2	21.2
12 23	8 5.24	+21 47.7	1.709	2.617	10.3	21.0
1 2	7 55.64	+22 15.9	1.682	2.642	5.9	20.8
1 12	7 44.68	+22 43.8	1.684	2.666	1.2	20.5
1 22	7 33.62	+23 7.4	1.715	2.690	3.6	20.8
2 1	7 23.73	+23 24.5	1.775	2.713	7.9	21.1
2 11	7 16.04	+23 34.4	1.862	2.735	11.7	21.3
2 21	7 11.13	+23 37.8	1.971	2.757	14.8	21.6

309296 2007 RP_{232} 1 14.6 183°.45 0°.8/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.06	+17 29.7	2.029	2.850	13.0	21.7
12 23	8 3.52	+17 48.1	1.949	2.851	9.6	21.5
1 2	7 54.75	+18 13.9	1.895	2.851	5.7	21.2
1 12	7 44.54	+18 44.2	1.869	2.850	1.5	20.9
1 22	7 33.93	+19 15.6	1.873	2.849	3.2	21.1
2 1	7 24.07	+19 45.0	1.908	2.847	7.3	21.3
2 11	7 15.99	+20 10.6	1.970	2.844	11.1	21.5
2 21	7 10.35	+20 31.3	2.055	2.840	14.3	21.7

321243 2009 BO_{103} 1 14.6 359°.57 2°.3/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.16	+13 9.1	2.028	2.851	12.9	20.4
12 23	7 58.48	+13 22.0	1.951	2.850	9.7	20.2
1 2	7 51.82	+13 46.0	1.898	2.849	6.1	19.9
1 12	7 43.92	+14 19.3	1.872	2.849	2.8	19.7
1 22	7 35.68	+14 58.9	1.875	2.849	3.5	19.8
2 1	7 28.09	+15 41.5	1.908	2.850	7.1	20.0
2 11	7 22.07	+16 23.8	1.966	2.851	10.6	20.2
2 21	7 18.22	+17 3.2	2.048	2.852	13.7	20.4

199837 2007 EC_{30} 1 14.6 161°.92 2°.2/15.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.33	+13 31.8	1.805	2.622	14.5	21.5
12 23	8 3.87	+13 53.8	1.731	2.628	10.9	21.3
1 2	7 55.00	+14 28.0	1.682	2.634	6.7	21.0
1 12	7 44.59	+15 11.7	1.660	2.639	2.7	20.8
1 22	7 33.79	+16 0.8	1.669	2.643	3.8	20.9
2 1	7 23.83	+16 50.9	1.706	2.646	7.9	21.1
2 11	7 15.83	+17 38.4	1.770	2.649	11.9	21.4
2 21	7 10.48	+18 21.0	1.857	2.651	15.3	21.6

309370 2007 TN_{108} 1 14.6 71°.94 2°.0/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.47	+16 34.4	1.493	2.328	16.1	20.6
12 23	8 4.15	+16 24.6	1.436	2.343	11.9	20.4
1 2	7 55.17	+16 24.0	1.402	2.359	7.2	20.1
1 12	7 44.62	+16 30.5	1.395	2.374	2.6	19.9
1 22	7 33.87	+16 41.3	1.415	2.390	4.1	20.0
2 1	7 24.34	+16 53.8	1.463	2.406	8.7	20.3
2 11	7 17.19	+17 6.0	1.535	2.421	12.9	20.6
2 21	7 13.02	+17 16.5	1.629	2.437	16.5	20.9

319761 2006 UY_{203} 1 14.6 71°.86 1°.0/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.52	+18 54.8	1.635	2.469	14.9	20.9
12 23	8 3.98	+18 47.3	1.579	2.488	10.9	20.7
1 2	7 54.98	+18 45.8	1.548	2.506	6.4	20.4
1 12	7 44.57	+18 48.0	1.543	2.525	1.7	20.2
1 22	7 34.02	+18 51.3	1.567	2.543	3.6	20.3
2 1	7 24.65	+18 53.9	1.619	2.561	8.1	20.7
2 11	7 17.51	+18 54.8	1.697	2.579	12.1	20.9
2 21	7 13.18	+18 53.6	1.797	2.598	15.4	21.2

51853 2001 OY_{96} 1 14.6 338°.02 0°.3/14.4 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 4.66	+19 30.9	2.158	2.989	11.9	18.9
12 23	7 59.56	+20 15.2	2.079	2.988	8.7	18.7
1 2	7 52.46	+21 6.4	2.027	2.986	5.0	18.4
1 12	7 44.07	+22 0.6	2.003	2.985	1.0	18.1
1 22	7 35.29	+22 53.4	2.009	2.984	3.1	18.3
2 1	7 27.14	+23 41.2	2.044	2.983	6.9	18.5
2 11	7 20.54	+24 21.5	2.107	2.982	10.4	18.8
2 21	7 16.13	+24 53.5	2.193	2.981	13.4	19.0

15795 1993 TY_{38} 1 14.6 31°.09 4°.2/16.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.16	+ 9 47.2	1.452	2.281	16.8	17.7
12 23	8 0.42	+ 9 55.0	1.391	2.290	12.9	17.5
1 2	7 53.12	+10 21.1	1.351	2.299	8.5	17.2
1 12	7 44.21	+11 3.9	1.337	2.309	4.8	17.1
1 22	7 34.96	+11 59.0	1.349	2.320	5.1	17.1
2 1	7 26.73	+13 1.0	1.388	2.331	9.0	17.4
2 11	7 20.67	+14 4.1	1.451	2.343	13.1	17.6
2 21	7 17.46	+15 3.4	1.536	2.356	16.7	17.9

419066 2009 SK_{45} 1 14.6 112°.03 1°.3/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.07	+16 48.5	2.144	2.964	12.4	21.8
12 23	8 1.80	+16 51.3	2.079	2.979	9.1	21.6
1 2	7 53.61	+17 0.8	2.039	2.994	5.4	21.4
1 12	7 44.29	+17 14.9	2.028	3.009	1.8	21.2
1 22	7 34.79	+17 31.2	2.048	3.023	3.1	21.3
2 1	7 26.10	+17 47.6	2.097	3.037	6.7	21.5
2 11	7 19.07	+18 2.7	2.174	3.050	10.1	21.8
2 21	7 14.25	+18 15.3	2.274	3.063	13.0	22.0

396836 2004 RS_{163} 1 14.6 64°.89 4°.3/16.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.85	+10 27.3	1.344	2.170	18.0	20.9
12 23	8 4.42	+10 22.2	1.300	2.198	13.7	20.7
1 2	7 55.29	+10 34.7	1.278	2.226	8.9	20.5
1 12	7 44.63	+11 2.9	1.281	2.254	4.9	20.3
1 22	7 33.92	+11 42.7	1.311	2.281	5.4	20.4
2 1	7 24.59	+12 29.0	1.367	2.309	9.3	20.7
2 11	7 17.79	+13 16.7	1.449	2.337	13.4	21.0
2 21	7 14.08	+14 2.0	1.551	2.364	16.9	21.3

280226 2002 UD_{66} 1 14.6 182°.58 4°.0/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.33	+32 35.7	2.396	3.225	11.0	21.1
12 23	8 2.19	+33 23.6	2.323	3.225	8.2	20.9
1 2	7 53.95	+34 7.6	2.277	3.225	5.5	20.8
1 12	7 44.38	+34 42.7	2.260	3.225	4.0	20.7
1 22	7 34.48	+35 5.0	2.272	3.224	5.2	20.8
2 1	7 25.30	+35 12.8	2.313	3.224	7.9	20.9
2 11	7 17.83	+35 6.8	2.381	3.223	10.7	21.1
2 21	7 12.67	+34 49.5	2.471	3.222	13.1	21.3

354075 2001 UB_{170} 1 14.6 75°.83 0°.5/14.7 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.87	+19 17.4	1.383	2.224	16.8	21.4
12 23	8 5.99	+19 28.2	1.335	2.247	12.2	21.2
1 2	7 56.24	+19 46.4	1.310	2.270	7.1	21.0
1 12	7 44.84	+20 7.7	1.311	2.293	1.6	20.7
1 22	7 33.34	+20 27.9	1.339	2.315	4.0	20.9
2 1	7 23.30	+20 44.2	1.395	2.338	9.0	21.3
2 11	7 15.92	+20 55.3	1.475	2.360	13.4	21.6
2 21	7 11.78	+21 1.2	1.577	2.382	17.0	21.9

459821 2013 SH_{47} 1 14.6 150°.62 0°.7/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.32	+22 20.7	2.084	2.916	12.2	21.4
12 23	8 1.50	+22 40.8	2.009	2.918	8.9	21.1
1 2	7 53.56	+23 4.1	1.960	2.920	5.1	20.9
1 12	7 44.31	+23 27.2	1.939	2.921	1.2	20.6
1 22	7 34.73	+23 46.9	1.948	2.923	3.3	20.8
2 1	7 25.92	+24 0.9	1.987	2.924	7.2	21.0
2 11	7 18.84	+24 8.4	2.052	2.926	10.7	21.3
2 21	7 14.11	+24 9.9	2.140	2.927	13.7	21.5

505248 2012 UK_{118} 1 14.6 126°.14 6°.1/17.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.13	− 0 17.1	2.696	3.450	11.9	21.7
12 23	7 57.94	− 0 47.1	2.622	3.458	9.9	21.5
1 2	7 51.32	− 1 2.3	2.571	3.466	7.8	21.4
1 12	7 43.82	− 1 1.5	2.548	3.474	6.4	21.3
1 22	7 36.12	− 0 45.1	2.553	3.482	6.2	21.3
2 1	7 28.94	− 0 14.8	2.586	3.489	7.5	21.4
2 11	7 22.92	+ 0 26.0	2.646	3.496	9.4	21.6
2 21	7 18.52	+ 1 13.7	2.731	3.504	11.4	21.7

430231 2013 VL_{20} 1 14.6 41°.29 6°.7/18.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.92	+ 0 8.9	2.086	2.858	14.4	20.5
12 23	7 58.17	− 0 1.4	2.014	2.864	11.8	20.3
1 2	7 51.60	+ 0 8.2	1.964	2.871	9.2	20.2
1 12	7 43.90	+ 0 38.3	1.940	2.878	7.2	20.1
1 22	7 35.92	+ 1 27.3	1.943	2.885	6.9	20.1
2 1	7 28.59	+ 2 31.6	1.974	2.892	8.6	20.2
2 11	7 22.74	+ 3 45.8	2.031	2.900	11.1	20.3
2 21	7 18.92	+ 5 4.3	2.112	2.907	13.6	20.5

81819 2000 KS_{35} 1 14.6 152°.49 0°.8/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 7.73	+17 7.5	2.462	3.277	11.2	20.7
12 23	8 1.45	+17 32.4	2.389	3.287	8.2	20.5
1 2	7 53.40	+18 3.7	2.341	3.297	4.8	20.3
1 12	7 44.28	+18 38.7	2.324	3.305	1.3	20.1
1 22	7 34.90	+19 14.4	2.338	3.313	2.7	20.2
2 1	7 26.16	+19 48.4	2.383	3.320	6.2	20.5
2 11	7 18.85	+20 18.6	2.456	3.327	9.3	20.7
2 21	7 13.53	+20 44.2	2.554	3.333	12.0	20.9

325306 2008 HR_{52} 1 14.6 149°.12 2°.2/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.52	+12 52.7	2.217	3.029	12.4	21.7
12 23	8 0.72	+13 11.2	2.142	3.036	9.3	21.5
1 2	7 53.05	+13 40.0	2.093	3.042	5.8	21.3
1 12	7 44.21	+14 17.2	2.072	3.048	2.6	21.1
1 22	7 35.07	+14 59.7	2.081	3.054	3.3	21.1
2 1	7 26.60	+15 44.3	2.120	3.059	6.7	21.4
2 11	7 19.64	+16 27.9	2.187	3.064	10.0	21.6
2 21	7 14.78	+17 8.3	2.278	3.069	12.9	21.8

197277 2003 WJ_{100} 1 14.6 105°.73 4°.1/16.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.91	+ 9 34.0	2.294	3.092	12.4	19.9
12 23	8 0.83	+ 8 56.7	2.224	3.103	9.6	19.7
1 2	7 53.03	+ 8 29.4	2.179	3.114	6.6	19.6
1 12	7 44.19	+ 8 12.7	2.162	3.125	4.4	19.4
1 22	7 35.18	+ 8 6.2	2.175	3.136	4.7	19.5
2 1	7 26.87	+ 8 8.7	2.218	3.147	7.1	19.6
2 11	7 20.04	+ 8 18.1	2.288	3.158	10.0	19.8
2 21	7 15.21	+ 8 32.0	2.382	3.168	12.6	20.0

480028 2015 BX_{4} 1 14.6 40°.37 4°.5/14.2 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 29.34	+22 7.6	0.971	1.814	22.1	19.5
12 23	8 19.14	+19 30.4	0.905	1.816	16.7	19.2
1 2	8 4.28	+16 41.7	0.860	1.817	10.3	18.8
1 12	7 46.58	+13 48.5	0.841	1.819	4.8	18.5
1 22	7 28.66	+11 3.1	0.851	1.821	7.5	18.7
2 1	7 13.19	+ 8 38.6	0.887	1.824	13.8	19.0
2 11	7 2.03	+ 6 42.5	0.947	1.826	19.6	19.4
2 21	6 55.86	+ 5 14.8	1.024	1.829	24.2	19.7

190250 2007 EZ_{217} 1 14.6 213°.86 0°.6/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.99	+18 12.9	2.426	3.245	11.2	21.6
12 23	8 1.06	+18 27.5	2.337	3.238	8.2	21.4
1 2	7 53.27	+18 47.7	2.274	3.230	4.8	21.1
1 12	7 44.27	+19 11.3	2.241	3.222	1.3	20.9
1 22	7 34.90	+19 35.5	2.238	3.214	2.8	21.0
2 1	7 26.09	+19 58.3	2.266	3.205	6.4	21.2
2 11	7 18.69	+20 17.9	2.322	3.195	9.7	21.4
2 21	7 13.30	+20 33.7	2.403	3.185	12.6	21.6

20948 2754 $T\text{-}_{2}$ 1 14.6 303°.37 4°.0/16.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.68	+10 48.7	1.534	2.360	16.2	19.2
12 23	8 1.64	+10 46.5	1.455	2.353	12.5	18.9
1 2	7 53.94	+11 0.5	1.398	2.347	8.2	18.7
1 12	7 44.45	+11 29.7	1.367	2.340	4.5	18.4
1 22	7 34.38	+12 11.2	1.362	2.334	5.1	18.4
2 1	7 25.15	+13 0.6	1.385	2.327	9.2	18.7
2 11	7 18.01	+13 52.8	1.432	2.321	13.5	18.9
2 21	7 13.78	+14 43.7	1.501	2.316	17.3	19.1

146530 2001 SK_{180} 1 14.6 132°.84 0°.3/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.80	+20 52.5	1.902	2.735	13.2	20.9
12 23	8 2.70	+21 15.9	1.833	2.741	9.6	20.6
1 2	7 54.31	+21 44.2	1.787	2.747	5.5	20.4
1 12	7 44.49	+22 13.7	1.771	2.753	1.2	20.1
1 22	7 34.35	+22 40.5	1.783	2.758	3.4	20.3
2 1	7 25.08	+23 2.1	1.825	2.764	7.6	20.6
2 11	7 17.71	+23 17.1	1.893	2.769	11.4	20.8
2 21	7 12.90	+23 25.6	1.984	2.774	14.6	21.0

282182 2001 TZ_{86} 1 14.6 102°.47 6°.5/17.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.37	− 0 13.2	2.443	3.202	12.9	20.8
12 23	7 58.26	− 0 43.8	2.370	3.210	10.7	20.7
1 2	7 51.56	− 0 58.0	2.319	3.217	8.4	20.5
1 12	7 43.90	− 0 54.6	2.295	3.224	6.8	20.5
1 22	7 36.01	− 0 34.1	2.299	3.231	6.7	20.5
2 1	7 28.68	+ 0 1.5	2.331	3.238	8.1	20.6
2 11	7 22.64	+ 0 48.4	2.390	3.245	10.2	20.7
2 21	7 18.37	+ 1 42.3	2.472	3.251	12.3	20.9

141563 2002 GQ_{94} 1 14.6 213°.47 3°.3/15.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.95	+12 54.4	1.729	2.550	14.9	20.4
12 23	8 3.00	+12 39.0	1.650	2.547	11.3	20.1
1 2	7 54.58	+12 34.9	1.594	2.544	7.3	19.9
1 12	7 44.57	+12 41.2	1.565	2.540	3.7	19.6
1 22	7 34.10	+12 56.3	1.565	2.536	4.5	19.7
2 1	7 24.46	+13 17.3	1.593	2.532	8.5	19.9
2 11	7 16.79	+13 41.5	1.646	2.528	12.5	20.1
2 21	7 11.81	+14 6.3	1.722	2.524	16.0	20.4

348602 2005 XX_{23} 1 14.6 83°.74 4°.3/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 13.04	+28 0.8	1.394	2.243	16.2	20.9
12 23	8 6.56	+29 11.9	1.342	2.257	11.9	20.6
1 2	7 56.81	+30 22.8	1.314	2.271	7.4	20.4
1 12	7 45.03	+31 24.2	1.311	2.286	4.3	20.3
1 22	7 32.89	+32 8.4	1.336	2.300	6.5	20.4
2 1	7 22.16	+32 32.2	1.387	2.314	10.7	20.7
2 11	7 14.30	+32 37.0	1.461	2.327	14.7	21.0
2 21	7 10.01	+32 26.8	1.556	2.341	18.1	21.2

415934 2001 VG_{103} 1 14.6 60°.03 5°.7/16.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.47	+ 8 6.2	1.664	2.473	15.9	20.7
12 23	8 2.41	+ 7 16.1	1.606	2.490	12.4	20.6
1 2	7 54.09	+ 6 41.1	1.572	2.506	8.8	20.4
1 12	7 44.43	+ 6 22.5	1.563	2.523	6.1	20.3
1 22	7 34.60	+ 6 19.8	1.581	2.540	6.3	20.3
2 1	7 25.80	+ 6 31.1	1.628	2.558	9.1	20.5
2 11	7 19.02	+ 6 52.5	1.699	2.575	12.5	20.7
2 21	7 14.84	+ 7 20.0	1.792	2.592	15.5	21.0

243311 2008 PN_{13} 1 14.6 163°.49 1°.3/15.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.88	+14 1.0	3.900	4.704	7.6	21.8
12 23	7 55.30	+14 15.3	3.817	4.707	5.7	21.6
1 2	7 49.71	+14 34.8	3.762	4.711	3.5	21.5
1 12	7 43.51	+14 58.5	3.738	4.714	1.6	21.3
1 22	7 37.15	+15 24.9	3.745	4.717	2.0	21.4
2 1	7 31.12	+15 52.6	3.783	4.720	4.1	21.5
2 11	7 25.88	+16 20.2	3.851	4.723	6.2	21.7
2 21	7 21.77	+16 46.5	3.946	4.725	8.1	21.8

372082 2008 SK_{40} 1 14.6 69°.38 0°.7/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.85	+17 52.4	2.029	2.858	12.7	21.2
12 23	8 0.40	+18 10.5	1.960	2.866	9.3	21.0
1 2	7 52.93	+18 35.6	1.915	2.873	5.4	20.7
1 12	7 44.20	+19 4.9	1.898	2.880	1.4	20.5
1 22	7 35.20	+19 35.2	1.911	2.887	3.1	20.6
2 1	7 26.96	+20 3.7	1.953	2.895	7.0	20.9
2 11	7 20.40	+20 28.3	2.022	2.902	10.6	21.1
2 21	7 16.12	+20 48.1	2.114	2.909	13.6	21.3

487748 2015 RM_{116} 1 14.6 89°.88 1°.3/15.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.62	+15 33.1	1.456	2.290	16.5	21.2
12 23	8 4.40	+16 9.8	1.399	2.307	12.1	21.0
1 2	7 55.42	+16 59.4	1.366	2.324	7.2	20.7
1 12	7 44.74	+17 56.9	1.359	2.340	2.1	20.5
1 22	7 33.76	+18 56.3	1.380	2.357	3.9	20.6
2 1	7 23.97	+19 52.2	1.429	2.373	8.8	21.0
2 11	7 16.60	+20 40.9	1.504	2.389	13.2	21.2
2 21	7 12.33	+21 20.6	1.599	2.404	16.8	21.5

101026 1998 QT_{63} 1 14.6 136°.08 3°.7/15.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.20	+11 39.6	1.642	2.458	15.7	20.1
12 23	8 4.58	+11 27.4	1.575	2.469	12.0	19.9
1 2	7 55.44	+11 28.5	1.532	2.479	7.8	19.7
1 12	7 44.74	+11 41.7	1.515	2.488	4.2	19.5
1 22	7 33.73	+12 4.9	1.527	2.497	4.8	19.5
2 1	7 23.73	+12 34.5	1.567	2.505	8.7	19.8
2 11	7 15.87	+13 7.2	1.633	2.513	12.6	20.0
2 21	7 10.84	+13 39.8	1.720	2.520	16.1	20.3

225619 2001 AK_{32} 1 14.6 40°.44 1°.6/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.08	+25 12.6	1.712	2.554	14.0	19.5
12 23	8 3.07	+25 21.1	1.649	2.562	10.2	19.3
1 2	7 54.56	+25 30.0	1.611	2.571	5.9	19.1
1 12	7 44.56	+25 35.2	1.599	2.581	1.9	18.8
1 22	7 34.32	+25 33.9	1.617	2.590	4.0	19.0
2 1	7 25.19	+25 24.7	1.662	2.600	8.3	19.3
2 11	7 18.23	+25 8.3	1.733	2.610	12.2	19.5
2 21	7 14.09	+24 46.4	1.825	2.621	15.4	19.7

168984 2001 CQ_{14} 1 14.6 329°.87 2°.6/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.98	+24 59.9	1.287	2.147	16.6	20.3
12 23	8 2.59	+25 36.3	1.211	2.133	12.2	20.0
1 2	7 54.83	+26 17.1	1.155	2.119	7.3	19.7
1 12	7 44.70	+26 55.4	1.125	2.105	2.8	19.4
1 22	7 33.79	+27 24.7	1.120	2.093	5.5	19.5
2 1	7 23.93	+27 40.4	1.140	2.081	10.8	19.8
2 11	7 16.80	+27 41.9	1.182	2.071	15.8	20.0
2 21	7 13.34	+27 31.3	1.244	2.061	20.0	20.2

498359 2007 VK_{315} 1 14.6 299°.46 5°.0/16.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.56	+ 6 59.5	2.338	3.130	12.4	20.6
12 23	7 59.28	+ 6 16.0	2.251	3.123	9.9	20.4
1 2	7 52.24	+ 5 43.5	2.188	3.115	7.2	20.2
1 12	7 44.09	+ 5 23.4	2.153	3.108	5.2	20.1
1 22	7 35.61	+ 5 15.8	2.147	3.101	5.4	20.1
2 1	7 27.67	+ 5 19.8	2.170	3.093	7.6	20.2
2 11	7 21.09	+ 5 33.1	2.220	3.086	10.3	20.3
2 21	7 16.42	+ 5 52.9	2.293	3.079	12.9	20.5

114738 2003 HQ_{12} 1 14.6 99°.11 3°.9/16.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 9.53	+10 18.9	1.582	2.399	16.2	19.7
12 23	8 3.40	+10 20.3	1.521	2.414	12.3	19.5
1 2	7 54.77	+10 37.6	1.483	2.429	8.1	19.3
1 12	7 44.62	+11 9.3	1.471	2.443	4.5	19.1
1 22	7 34.20	+11 51.6	1.487	2.457	4.9	19.1
2 1	7 24.83	+12 40.3	1.531	2.471	8.7	19.4
2 11	7 17.61	+13 30.5	1.601	2.485	12.6	19.6
2 21	7 13.20	+14 18.6	1.692	2.498	16.0	19.9

445066 2008 SD_{242} 1 14.6 56°.57 1°.7/15.1 17

12 13	8 10.97	+16 21.3	1.217	2.063	18.3	21.6
12 23	8 4.88	+16 33.5	1.173	2.086	13.4	21.4
1 2	7 55.72	+16 58.1	1.150	2.109	8.0	21.2
1 12	7 44.81	+17 30.8	1.152	2.133	2.5	20.9
1 22	7 33.78	+18 6.5	1.180	2.157	4.3	21.1
2 1	7 24.29	+18 40.7	1.234	2.181	9.6	21.5
2 11	7 17.59	+19 10.1	1.312	2.205	14.2	21.8
2 21	7 14.29	+19 33.6	1.410	2.229	18.0	22.1

154825 2004 RL_{6} 1 14.6 205°.11 2°.4/15.9 18

12 13	8 6.04	+11 7.9	2.453	3.255	11.6	21.0
12 23	8 0.35	+11 34.4	2.363	3.250	8.8	20.8
1 2	7 52.88	+12 12.3	2.299	3.244	5.7	20.6
1 12	7 44.25	+12 59.8	2.264	3.238	2.8	20.4
1 22	7 35.22	+13 53.9	2.260	3.232	3.3	20.4
2 1	7 26.69	+14 51.1	2.287	3.224	6.4	20.6
2 11	7 19.47	+15 47.9	2.342	3.216	9.6	20.8
2 21	7 14.16	+16 41.8	2.422	3.208	12.4	21.0

320988 2008 JT_{27} 1 14.6 267°.04 1°.5/15.2 18

12 13	8 6.87	+15 51.3	1.930	2.756	13.4	21.6
12 23	8 1.46	+16 5.4	1.839	2.742	10.0	21.4
1 2	7 53.75	+16 29.1	1.772	2.727	6.1	21.1
1 12	7 44.46	+17 0.2	1.732	2.712	2.1	20.8
1 22	7 34.62	+17 35.3	1.722	2.697	3.4	20.9
2 1	7 25.38	+18 11.1	1.740	2.682	7.7	21.1
2 11	7 17.86	+18 44.7	1.785	2.667	11.7	21.3
2 21	7 12.80	+19 14.3	1.853	2.651	15.1	21.5

421849 2014 QA_{132} 1 14.6 240°.95 0°.7/14.9 17

12 13	8 9.46	+17 54.9	1.832	2.660	13.9	22.5
12 23	8 3.48	+18 14.9	1.742	2.647	10.3	22.3
1 2	7 54.97	+18 43.5	1.677	2.635	6.1	22.0
1 12	7 44.74	+19 17.3	1.639	2.621	1.6	21.7
1 22	7 33.89	+19 52.5	1.631	2.607	3.5	21.8
2 1	7 23.72	+20 25.4	1.652	2.593	8.1	22.0
2 11	7 15.46	+20 53.7	1.700	2.578	12.3	22.2
2 21	7 9.88	+21 16.1	1.769	2.563	15.9	22.4

442724 2012 VY_{33} 1 14.6 81°.97 1°.7/15.2 17

12 13	8 11.45	+15 17.7	1.349	2.186	17.4	21.2
12 23	8 5.12	+15 44.9	1.297	2.206	12.8	20.9
1 2	7 55.88	+16 25.4	1.268	2.225	7.6	20.7
1 12	7 44.89	+17 14.8	1.263	2.244	2.5	20.4
1 22	7 33.65	+18 7.1	1.287	2.263	4.1	20.6
2 1	7 23.75	+18 56.9	1.337	2.282	9.2	20.9
2 11	7 16.44	+19 40.7	1.412	2.300	13.7	21.2
2 21	7 12.38	+20 16.7	1.508	2.318	17.4	21.5

453781 2011 KD_{20} 1 14.6 187°.55 3°.0/15.1 18

12 13	8 15.92	+15 59.9	1.844	2.656	14.5	20.8
12 23	8 7.89	+15 5.9	1.762	2.655	10.9	20.5
1 2	7 57.34	+14 16.6	1.705	2.655	6.9	20.3
1 12	7 45.21	+13 32.3	1.677	2.653	3.3	20.1
1 22	7 32.73	+12 53.7	1.680	2.651	4.4	20.1
2 1	7 21.23	+12 21.1	1.714	2.648	8.4	20.4
2 11	7 11.83	+11 54.7	1.775	2.644	12.3	20.6
2 21	7 5.24	+11 33.8	1.858	2.640	15.7	20.8

518155 2016 GV_{26} 1 14.6 74°.39 0°.4/14.5 18

12 13	8 7.40	+21 28.8	1.968	2.802	12.8	21.3
12 23	8 1.62	+21 45.6	1.900	2.809	9.3	21.1
1 2	7 53.68	+22 6.3	1.857	2.817	5.3	20.8
1 12	7 44.43	+22 27.6	1.843	2.825	1.1	20.5
1 22	7 34.91	+22 46.2	1.858	2.833	3.3	20.7
2 1	7 26.25	+23 0.0	1.902	2.841	7.3	21.0
2 11	7 19.40	+23 8.0	1.972	2.849	10.9	21.2
2 21	7 14.97	+23 10.4	2.065	2.857	14.0	21.5

119123 2001 OQ_{90} 1 14.6 233°.79 1°.9/15.3 18

12 13	8 9.61	+14 47.3	1.600	2.428	15.5	20.2
12 23	8 3.83	+15 9.3	1.517	2.420	11.6	19.9
1 2	7 55.28	+15 44.4	1.457	2.412	7.1	19.7
1 12	7 44.83	+16 29.7	1.423	2.403	2.6	19.3
1 22	7 33.72	+17 20.5	1.418	2.394	4.0	19.4
2 1	7 23.41	+18 11.9	1.441	2.384	8.8	19.7
2 11	7 15.23	+18 59.7	1.490	2.374	13.4	19.9
2 21	7 10.03	+19 41.6	1.560	2.364	17.2	20.1

429326 2010 EF_{99} 1 14.6 314°.46 7°.1/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 9.21	+38 15.3	1.916	2.749	13.1	20.6
12 23	8 3.72	+39 25.4	1.834	2.729	10.4	20.4
1 2	7 55.30	+40 28.4	1.775	2.709	8.0	20.2
1 12	7 44.84	+41 15.9	1.744	2.690	7.1	20.1
1 22	7 33.66	+41 41.6	1.739	2.671	8.4	20.1
2 1	7 23.33	+41 42.8	1.761	2.653	11.1	20.2
2 11	7 15.25	+41 21.3	1.806	2.634	14.1	20.4
2 21	7 10.33	+40 41.9	1.870	2.617	16.9	20.5

144597 2004 FS_{44} 1 14.6 262°.16 2°.8/16.1 17

12 13	8 3.34	+10 53.9	2.392	3.200	11.7	19.8
12 23	7 58.41	+11 6.3	2.308	3.197	8.9	19.6
1 2	7 51.77	+11 29.7	2.249	3.194	5.8	19.4
1 12	7 44.04	+12 3.0	2.218	3.190	3.2	19.3
1 22	7 35.99	+12 43.6	2.217	3.187	3.5	19.3
2 1	7 28.47	+13 28.7	2.246	3.184	6.4	19.5
2 11	7 22.25	+14 15.1	2.302	3.181	9.5	19.7
2 21	7 17.90	+15 0.1	2.383	3.178	12.3	19.8

496267 2012 RU_{37} 1 14.6 158°.60 6°.0/18.0 18

12 13	8 3.12	− 0 12.3	2.628	3.383	12.2	21.9
12 23	7 58.05	− 0 28.0	2.548	3.387	10.0	21.7
1 2	7 51.48	− 0 27.9	2.492	3.390	7.9	21.6
1 12	7 43.97	− 0 11.2	2.462	3.393	6.3	21.5
1 22	7 36.22	+ 0 21.2	2.461	3.396	6.1	21.5
2 1	7 28.97	+ 1 7.1	2.489	3.398	7.5	21.6
2 11	7 22.89	+ 2 2.6	2.544	3.400	9.6	21.7
2 21	7 18.48	+ 3 3.8	2.624	3.402	11.7	21.9

452510 2004 RO_{203} 1 14.6 121°.43 4°.0/13.3 18

12 13	8 15.52	+30 24.1	1.796	2.628	13.9	22.2
12 23	8 7.75	+31 9.0	1.741	2.646	10.3	22.0
1 2	7 57.28	+31 49.8	1.710	2.663	6.5	21.8
1 12	7 45.20	+32 19.9	1.708	2.680	4.0	21.7
1 22	7 32.91	+32 34.9	1.735	2.696	5.6	21.8
2 1	7 21.88	+32 33.4	1.790	2.711	9.1	22.0
2 11	7 13.29	+32 17.6	1.871	2.725	12.6	22.3
2 21	7 7.76	+31 51.2	1.974	2.739	15.5	22.5

88026 2000 UB_{80} 1 14.6 119°.08 4°.4/16.5 18

12 13	8 7.52	+ 7 22.8	2.330	3.118	12.6	19.9
12 23	8 1.27	+ 6 57.4	2.264	3.135	9.8	19.7
1 2	7 53.31	+ 6 43.9	2.222	3.152	6.9	19.5
1 12	7 44.36	+ 6 42.7	2.209	3.168	4.7	19.4
1 22	7 35.25	+ 6 52.7	2.226	3.184	4.9	19.5
2 1	7 26.84	+ 7 12.1	2.273	3.199	7.1	19.6
2 11	7 19.91	+ 7 38.0	2.347	3.213	9.8	19.8
2 21	7 14.94	+ 8 7.5	2.445	3.228	12.3	20.0

207874 2007 VQ_{274} 1 14.6 18°.06 2°.9/13.0 18

12 13	8 5.75	+27 27.2	2.201	3.038	11.5	19.6
12 23	8 0.46	+28 27.5	2.130	3.040	8.4	19.4
1 2	7 53.09	+29 28.5	2.085	3.041	5.2	19.2
1 12	7 44.35	+30 24.8	2.068	3.043	2.9	19.1
1 22	7 35.24	+31 11.8	2.081	3.045	4.5	19.2
2 1	7 26.80	+31 46.3	2.123	3.047	7.7	19.4
2 11	7 20.03	+32 7.6	2.192	3.049	10.8	19.6
2 21	7 15.56	+32 16.9	2.283	3.051	13.5	19.8

253264 2003 AH_{63} 1 14.6 327°.14 0°.5/14.5 18

12 13	8 8.21	+22 21.1	1.561	2.407	14.9	20.1
12 23	8 2.86	+22 23.1	1.482	2.397	11.0	19.8
1 2	7 54.71	+22 28.7	1.427	2.389	6.4	19.6
1 12	7 44.72	+22 34.4	1.398	2.380	1.4	19.2
1 22	7 34.21	+22 36.8	1.396	2.373	3.9	19.4
2 1	7 24.65	+22 34.0	1.422	2.365	8.9	19.6
2 11	7 17.36	+22 25.6	1.472	2.358	13.4	19.9
2 21	7 13.12	+22 12.4	1.544	2.352	17.2	20.1

365990 2012 BT_{87} 1 14.6 19°.89 2°.7/13.2 18

12 13	8 7.97	+22 51.5	1.551	2.398	15.0	19.9
12 23	8 2.80	+24 26.4	1.484	2.400	10.9	19.6
1 2	7 54.75	+26 9.7	1.441	2.403	6.4	19.4
1 12	7 44.74	+27 52.4	1.426	2.405	2.8	19.2
1 22	7 34.11	+29 25.4	1.439	2.408	5.3	19.3
2 1	7 24.40	+30 41.6	1.480	2.411	9.8	19.6
2 11	7 16.97	+31 38.3	1.546	2.415	13.9	19.9
2 21	7 12.69	+32 16.5	1.632	2.418	17.3	20.1

373410 1997 RL_{12} 1 14.6 97°.96 2°.9/16.2 18

12 13	8 5.85	+10 25.6	2.419	3.220	11.8	22.0
12 23	8 0.02	+10 31.1	2.358	3.242	8.9	21.8
1 2	7 52.58	+10 47.1	2.322	3.264	5.9	21.7
1 12	7 44.22	+11 12.2	2.315	3.285	3.3	21.5
1 22	7 35.71	+11 44.4	2.338	3.307	3.6	21.6
2 1	7 27.89	+12 20.8	2.392	3.327	6.3	21.8
2 11	7 21.47	+12 58.8	2.473	3.348	9.1	22.0
2 21	7 16.92	+13 35.9	2.579	3.367	11.6	22.2

109296 2001 QM_{125} 1 14.6 105.°88 1.°8/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 4.42	+13 20.4	2.406	3.219	11.5	19.7
12 23	7 59.12	+13 45.8	2.335	3.229	8.6	19.6
1 2	7 52.14	+14 20.7	2.288	3.239	5.3	19.4
1 12	7 44.14	+15 2.8	2.271	3.249	2.3	19.2
1 22	7 35.89	+15 49.2	2.284	3.258	3.0	19.3
2 1	7 28.24	+16 36.6	2.328	3.268	6.1	19.5
2 11	7 21.95	+17 22.4	2.399	3.277	9.2	19.7
2 21	7 17.55	+18 4.3	2.495	3.286	11.9	19.9

10814 Gnisvärd 1 14.6 115.°01 4.°5/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.58	+34 42.4	2.475	3.301	10.8	17.8
12 23	8 2.34	+35 31.3	2.412	3.309	8.2	17.7
1 2	7 54.07	+36 14.6	2.374	3.317	5.7	17.5
1 12	7 44.55	+36 47.4	2.366	3.325	4.5	17.5
1 22	7 34.77	+37 6.1	2.387	3.332	5.6	17.6
2 1	7 25.77	+37 9.4	2.437	3.339	7.9	17.7
2 11	7 18.47	+36 58.6	2.513	3.347	10.4	17.9
2 21	7 13.47	+36 36.3	2.611	3.354	12.7	18.1

55484 2001 UC_{24} 1 14.6 34.°42 6.°7/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.57	+ 7 22.1	1.524	2.338	16.9	17.1
12 23	8 2.05	+ 6 19.3	1.463	2.348	13.4	16.9
1 2	7 54.05	+ 5 32.7	1.425	2.358	9.7	16.7
1 12	7 44.55	+ 5 4.9	1.411	2.369	7.0	16.5
1 22	7 34.80	+ 4 56.2	1.424	2.380	7.2	16.6
2 1	7 26.09	+ 5 4.7	1.463	2.392	10.0	16.8
2 11	7 19.51	+ 5 26.2	1.526	2.404	13.5	17.0
2 21	7 15.69	+ 5 55.8	1.610	2.417	16.6	17.2

466686 2014 WB_{286} 1 14.6 49.°43 2.°5/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.09	+13 28.5	1.822	2.646	14.1	21.7
12 23	8 0.79	+13 32.4	1.751	2.651	10.6	21.5
1 2	7 53.29	+13 47.6	1.704	2.656	6.7	21.3
1 12	7 44.41	+14 12.3	1.684	2.661	3.1	21.1
1 22	7 35.20	+14 43.7	1.693	2.667	3.8	21.1
2 1	7 26.81	+15 18.5	1.730	2.672	7.7	21.4
2 11	7 20.23	+15 53.4	1.794	2.678	11.4	21.6
2 21	7 16.10	+16 25.9	1.879	2.684	14.7	21.8

7615 1996 TA_{11} 1 14.6 111.°70 0.°3/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.60	+20 3.0	1.791	2.620	14.1	18.1
12 23	8 4.77	+20 36.4	1.733	2.640	10.2	17.9
1 2	7 55.54	+21 15.8	1.699	2.658	5.9	17.6
1 12	7 44.88	+21 56.4	1.694	2.676	1.2	17.4
1 22	7 33.99	+22 33.8	1.719	2.694	3.5	17.6
2 1	7 24.14	+23 4.9	1.772	2.711	7.8	17.9
2 11	7 16.40	+23 28.2	1.853	2.727	11.7	18.1
2 21	7 11.38	+23 43.7	1.955	2.743	14.8	18.4

141414 Bochanski 1 14.6 90.°74 2.°6/16.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.76	+10 57.5	2.391	3.198	11.7	20.1
12 23	7 58.65	+11 17.8	2.318	3.207	8.9	20.0
1 2	7 51.89	+11 49.1	2.271	3.216	5.7	19.8
1 12	7 44.11	+12 29.8	2.251	3.225	3.0	19.6
1 22	7 36.08	+13 17.0	2.262	3.234	3.4	19.6
2 1	7 28.64	+14 7.6	2.303	3.242	6.3	19.8
2 11	7 22.53	+14 58.2	2.372	3.251	9.3	20.1
2 21	7 18.29	+15 46.3	2.466	3.260	11.9	20.2

355827 2008 TC_{157} 1 14.6 70.°62 2.°1/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.72	+24 0.8	1.340	2.186	16.9	21.3
12 23	8 7.48	+24 42.6	1.300	2.215	12.2	21.1
1 2	7 57.20	+25 26.8	1.283	2.244	7.0	20.9
1 12	7 45.21	+26 6.3	1.292	2.273	2.4	20.7
1 22	7 33.20	+26 35.4	1.329	2.302	4.8	20.9
2 1	7 22.82	+26 51.6	1.392	2.330	9.6	21.3
2 11	7 15.32	+26 55.6	1.480	2.358	13.9	21.6
2 21	7 11.25	+26 49.8	1.589	2.386	17.3	21.9

25262 1998 VL_{14} 1 14.6 108.°04 4.°4/16.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.75	+ 9 0.3	1.963	2.763	14.2	18.4
12 23	8 3.12	+ 8 34.4	1.902	2.783	10.9	18.2
1 2	7 54.47	+ 8 21.3	1.865	2.802	7.5	18.0
1 12	7 44.64	+ 8 21.0	1.856	2.821	4.8	17.9
1 22	7 34.66	+ 8 32.3	1.876	2.839	5.1	18.0
2 1	7 25.58	+ 8 52.7	1.926	2.857	7.9	18.2
2 11	7 18.28	+ 9 19.2	2.002	2.874	11.0	18.4
2 21	7 13.33	+ 9 48.5	2.101	2.891	13.9	18.6

125971 2001 YW_{15} 1 14.6 119.°25 0.°9/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.92	+22 46.5	1.717	2.549	14.5	20.2
12 23	8 6.53	+23 1.6	1.658	2.566	10.5	20.0
1 2	7 56.58	+23 19.4	1.623	2.582	6.0	19.8
1 12	7 45.10	+23 35.6	1.616	2.598	1.4	19.5
1 22	7 33.43	+23 46.6	1.639	2.613	3.8	19.7
2 1	7 22.95	+23 50.5	1.690	2.628	8.2	20.0
2 11	7 14.76	+23 47.5	1.768	2.642	12.2	20.3
2 21	7 9.50	+23 38.9	1.868	2.655	15.5	20.5

371972 2008 FQ_{135} 1 14.6 260.°16 7.°1/17.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.25	+ 2 41.0	1.954	2.736	14.9	21.1
12 23	8 0.89	+ 1 57.3	1.867	2.726	12.2	20.9
1 2	7 53.40	+ 1 30.5	1.802	2.715	9.4	20.7
1 12	7 44.47	+ 1 22.7	1.763	2.705	7.4	20.5
1 22	7 35.07	+ 1 34.5	1.751	2.694	7.4	20.5
2 1	7 26.26	+ 2 3.9	1.766	2.683	9.5	20.6
2 11	7 19.06	+ 2 46.9	1.807	2.672	12.4	20.8
2 21	7 14.16	+ 3 38.4	1.870	2.661	15.3	20.9

142351 2002 RJ_{213} 1 14.6 23.°83 2.°6/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.37	+21 48.4	0.923	1.800	20.0	18.7
12 23	8 2.60	+23 3.9	0.879	1.809	14.6	18.4
1 2	7 54.95	+24 30.2	0.854	1.820	8.4	18.1
1 12	7 44.83	+25 56.3	0.852	1.833	2.8	17.9
1 22	7 34.24	+27 10.6	0.873	1.847	6.1	18.1
2 1	7 25.37	+28 5.5	0.917	1.863	12.0	18.5
2 11	7 19.91	+28 39.3	0.981	1.880	17.3	18.8
2 21	7 18.58	+28 53.9	1.062	1.897	21.5	19.2

196901 2003 TS_{11} 1 14.6 225.°72 19.°2/20.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.19	−16 33.0	1.298	2.004	24.6	20.3
12 23	8 4.77	−18 38.2	1.233	1.999	22.7	20.1
1 2	7 56.09	−20 5.3	1.183	1.993	20.9	20.0
1 12	7 45.11	−20 42.8	1.149	1.987	19.6	19.9
1 22	7 33.28	−20 24.4	1.134	1.981	19.2	19.8
2 1	7 22.36	−19 10.8	1.136	1.974	19.9	19.9
2 11	7 13.95	−17 11.8	1.157	1.967	21.5	19.9
2 21	7 9.07	−14 41.9	1.194	1.960	23.6	20.1

371993 2008 GD_{144} 1 14.6 289.°21 1.°1/15.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.41	+14 33.0	1.765	2.593	14.3	20.3
12 23	8 1.46	+15 28.6	1.670	2.575	10.7	20.0
1 2	7 53.97	+16 39.8	1.599	2.556	6.5	19.8
1 12	7 44.64	+18 2.7	1.556	2.537	1.9	19.4
1 22	7 34.55	+19 31.0	1.542	2.518	3.6	19.5
2 1	7 24.98	+20 58.1	1.556	2.499	8.3	19.7
2 11	7 17.20	+22 18.2	1.598	2.480	12.7	19.9
2 21	7 12.12	+23 28.0	1.661	2.462	16.5	20.1

230515 2002 VV_{94} 1 14.6 130.°26 0.°1/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.59	+20 28.8	1.719	2.546	14.7	21.3
12 23	8 7.01	+20 38.4	1.657	2.562	10.7	21.1
1 2	7 56.86	+20 52.6	1.620	2.578	6.2	20.9
1 12	7 45.19	+21 7.8	1.611	2.593	1.3	20.6
1 22	7 33.30	+21 20.6	1.632	2.607	3.6	20.8
2 1	7 22.56	+21 28.9	1.682	2.621	8.2	21.1
2 11	7 14.12	+21 32.2	1.758	2.633	12.2	21.4
2 21	7 8.59	+21 30.9	1.857	2.645	15.5	21.6

438342 2006 QQ_{169} 1 14.6 153.°50 0.°0/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.75	+19 38.2	1.800	2.622	14.3	23.3
12 23	8 7.16	+20 6.7	1.731	2.635	10.5	23.1
1 2	7 57.00	+20 41.4	1.688	2.646	6.0	22.8
1 12	7 45.24	+21 17.9	1.673	2.656	1.3	22.5
1 22	7 33.13	+21 51.9	1.689	2.664	3.5	22.7
2 1	7 22.04	+22 20.0	1.734	2.672	8.1	23.0
2 11	7 13.13	+22 40.9	1.807	2.678	12.1	23.3
2 21	7 7.07	+22 54.7	1.902	2.684	15.4	23.5

460693 2014 UV_{195} 1 14.6 105.°00 6.°1/17.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.82	+ 4 18.2	1.974	2.759	14.6	21.7
12 23	8 1.77	+ 3 44.2	1.910	2.774	11.7	21.5
1 2	7 53.75	+ 3 26.6	1.869	2.789	8.7	21.4
1 12	7 44.54	+ 3 26.4	1.855	2.804	6.4	21.3
1 22	7 35.12	+ 3 42.8	1.869	2.818	6.4	21.3
2 1	7 26.51	+ 4 13.1	1.911	2.833	8.6	21.5
2 11	7 19.60	+ 4 53.1	1.979	2.846	11.4	21.7
2 21	7 14.95	+ 5 38.5	2.070	2.860	14.1	21.9

350719 2001 XA_{126} 1 14.6 23.°39 2.°4/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.38	+22 10.3	1.012	1.884	19.1	20.2
12 23	8 2.39	+23 19.1	0.966	1.894	13.9	19.9
1 2	7 54.75	+24 37.2	0.940	1.905	8.0	19.6
1 12	7 44.80	+25 54.5	0.936	1.918	2.7	19.4
1 22	7 34.43	+27 1.2	0.958	1.932	5.8	19.6
2 1	7 25.65	+27 50.4	1.002	1.947	11.4	20.0
2 11	7 20.05	+28 20.5	1.068	1.964	16.4	20.3
2 21	7 18.35	+28 33.4	1.152	1.982	20.5	20.6

55136 2001 QD_{185} 1 14.6 102.°58 1.°3/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.94	+22 48.8	1.483	2.325	15.8	19.9
12 23	8 6.23	+23 16.6	1.425	2.338	11.5	19.7
1 2	7 56.59	+23 48.4	1.390	2.351	6.6	19.5
1 12	7 45.17	+24 18.6	1.382	2.363	1.7	19.2
1 22	7 33.45	+24 42.4	1.401	2.376	4.3	19.4
2 1	7 23.02	+24 56.9	1.449	2.388	9.2	19.7
2 11	7 15.15	+25 1.8	1.521	2.400	13.5	20.0
2 21	7 10.53	+24 58.6	1.614	2.411	17.0	20.3

164574 2006 MQ_4 1 14.6 131°.08 2°.3/16.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 4.64	+11 29.7	2.692	3.494	10.7	20.6
12 23	7 59.13	+11 45.0	2.620	3.506	8.1	20.5
1 2	7 52.12	+12 9.5	2.573	3.518	5.2	20.3
1 12	7 44.20	+12 41.7	2.556	3.529	2.7	20.2
1 22	7 36.09	+13 19.4	2.570	3.541	3.1	20.2
2 1	7 28.52	+14 0.0	2.614	3.551	5.7	20.4
2 11	7 22.17	+14 40.9	2.688	3.562	8.5	20.6
2 21	7 17.51	+15 20.1	2.786	3.572	10.9	20.8

240400 2003 UF_{140} 1 14.7 126°.14 3°.5/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.51	+ 9 3.1	2.065	2.862	13.6	21.5
12 23	8 2.96	+ 9 16.8	2.000	2.881	10.4	21.4
1 2	7 54.44	+ 9 44.2	1.960	2.899	7.0	21.2
1 12	7 44.72	+10 23.6	1.948	2.917	4.0	21.0
1 22	7 34.78	+11 12.0	1.966	2.933	4.2	21.1
2 1	7 25.65	+12 5.4	2.014	2.949	7.3	21.3
2 11	7 18.21	+12 59.8	2.090	2.964	10.5	21.5
2 21	7 13.02	+13 52.2	2.190	2.979	13.4	21.7

266356 2007 EQ_3 1 14.7 13°.32 3°.2/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.05	+28 49.5	1.646	2.490	14.4	20.4
12 23	8 4.10	+29 10.8	1.579	2.492	10.6	20.1
1 2	7 55.38	+29 29.5	1.535	2.493	6.5	19.9
1 12	7 44.94	+29 40.3	1.519	2.496	3.3	19.7
1 22	7 34.16	+29 39.2	1.530	2.498	5.2	19.8
2 1	7 24.50	+29 25.1	1.569	2.501	9.2	20.1
2 11	7 17.21	+28 59.5	1.632	2.505	13.1	20.3
2 21	7 12.96	+28 25.5	1.716	2.508	16.4	20.6

98141 2000 SV_{57} 1 14.7 66°.46 0°.9/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.31	+21 58.0	1.376	2.222	16.6	19.8
12 23	8 5.77	+22 22.5	1.329	2.243	12.0	19.6
1 2	7 56.29	+22 51.8	1.304	2.265	6.9	19.4
1 12	7 45.12	+23 20.5	1.305	2.287	1.6	19.1
1 22	7 33.80	+23 43.7	1.333	2.309	4.2	19.3
2 1	7 23.93	+23 58.6	1.389	2.331	9.2	19.7
2 11	7 16.75	+24 4.8	1.469	2.353	13.6	20.0
2 21	7 12.84	+24 3.6	1.570	2.374	17.1	20.3

193920 2001 QO_{284} 1 14.7 126°.93 4°.7/16.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.60	+ 7 30.8	1.769	2.569	15.5	21.1
12 23	8 4.03	+ 7 32.0	1.705	2.585	12.0	20.9
1 2	7 55.16	+ 7 50.0	1.664	2.601	8.3	20.8
1 12	7 44.89	+ 8 23.9	1.650	2.616	5.2	20.6
1 22	7 34.35	+ 9 10.5	1.665	2.630	5.3	20.6
2 1	7 24.74	+10 5.5	1.709	2.643	8.4	20.9
2 11	7 17.10	+11 4.0	1.779	2.656	11.9	21.1
2 21	7 12.04	+12 1.6	1.872	2.668	15.1	21.3

367214 2007 DL_{91} 1 14.7 62°.78 3°.9/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.52	+31 0.9	1.814	2.652	13.6	20.8
12 23	8 4.98	+31 26.1	1.748	2.656	10.1	20.6
1 2	7 55.81	+31 46.7	1.706	2.660	6.4	20.4
1 12	7 45.03	+31 57.4	1.692	2.664	3.9	20.2
1 22	7 33.97	+31 54.4	1.706	2.669	5.4	20.3
2 1	7 24.00	+31 36.8	1.748	2.673	9.0	20.6
2 11	7 16.31	+31 6.7	1.815	2.678	12.5	20.8
2 21	7 11.54	+30 27.7	1.904	2.682	15.5	21.0

121096 1999 FG_{51} 1 14.7 212°.49 0°.9/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.26	+22 54.1	2.002	2.828	12.9	20.4
12 23	8 5.37	+23 10.0	1.915	2.821	9.5	20.2
1 2	7 56.04	+23 28.5	1.854	2.813	5.5	19.9
1 12	7 45.11	+23 46.0	1.822	2.804	1.4	19.6
1 22	7 33.68	+23 58.8	1.820	2.794	3.5	19.8
2 1	7 23.02	+24 5.0	1.848	2.784	7.8	20.0
2 11	7 14.26	+24 4.2	1.903	2.773	11.6	20.2
2 21	7 8.14	+23 57.3	1.981	2.761	14.9	20.4

317043 2001 RL_{113} 1 14.7 197°.66 5°.0/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.55	+35 11.7	2.169	2.993	12.2	21.5
12 23	8 6.32	+35 54.6	2.094	2.990	9.3	21.3
1 2	7 56.57	+36 31.0	2.045	2.987	6.5	21.1
1 12	7 45.21	+36 54.6	2.024	2.984	5.0	21.0
1 22	7 33.46	+37 1.2	2.032	2.979	6.2	21.1
2 1	7 22.63	+36 49.8	2.070	2.975	9.0	21.3
2 11	7 13.87	+36 22.4	2.133	2.970	11.9	21.4
2 21	7 7.89	+35 43.0	2.218	2.964	14.5	21.6

78012 2002 JK_{55} 1 14.7 208°.62 0°.5/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.95	+18 42.5	2.000	2.824	13.0	21.0
12 23	8 3.63	+18 57.6	1.915	2.819	9.6	20.8
1 2	7 55.02	+19 19.1	1.856	2.813	5.6	20.5
1 12	7 44.89	+19 44.1	1.825	2.807	1.4	20.2
1 22	7 34.30	+20 9.3	1.824	2.800	3.2	20.4
2 1	7 24.42	+20 31.9	1.852	2.792	7.5	20.6
2 11	7 16.33	+20 50.3	1.908	2.784	11.3	20.8
2 21	7 10.72	+21 3.9	1.987	2.775	14.6	21.0

274010 2007 PG_{46} 1 14.7 162°.44 3°.1/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 9.33	+31 3.8	2.482	3.309	10.7	21.2
12 23	8 2.83	+31 29.2	2.410	3.312	8.0	21.1
1 2	7 54.38	+31 50.8	2.364	3.315	5.1	20.9
1 12	7 44.73	+32 4.9	2.347	3.318	3.2	20.8
1 22	7 34.84	+32 8.4	2.360	3.320	4.4	20.9
2 1	7 25.70	+32 0.6	2.403	3.322	7.2	21.0
2 11	7 18.21	+31 42.2	2.473	3.324	10.0	21.2
2 21	7 12.93	+31 15.6	2.567	3.326	12.5	21.4

428910 2008 VE_{43} 1 14.7 137°.30 2°.3/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.95	+28 1.8	2.234	3.065	11.6	20.9
12 23	8 2.68	+28 17.3	2.161	3.067	8.5	20.7
1 2	7 54.34	+28 30.9	2.113	3.070	5.1	20.5
1 12	7 44.73	+28 38.9	2.094	3.072	2.4	20.3
1 22	7 34.87	+28 38.7	2.106	3.074	3.9	20.4
2 1	7 25.81	+28 29.1	2.147	3.076	7.3	20.6
2 11	7 18.50	+28 11.0	2.215	3.078	10.5	20.8
2 21	7 13.53	+27 46.1	2.306	3.080	13.2	21.0

180500 2004 CT_{91} 1 14.7 259°.72 2°.7/13.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.21	+29 15.8	2.031	2.858	12.7	20.9
12 23	8 6.95	+29 20.5	1.934	2.838	9.5	20.6
1 2	7 57.04	+29 21.3	1.862	2.817	5.8	20.4
1 12	7 45.35	+29 13.9	1.818	2.795	2.9	20.1
1 22	7 33.10	+28 55.1	1.805	2.773	4.5	20.2
2 1	7 21.64	+28 24.2	1.822	2.751	8.4	20.4
2 11	7 12.22	+27 43.2	1.866	2.728	12.2	20.6
2 21	7 5.62	+26 55.2	1.932	2.705	15.5	20.7

368450 2003 GE_{45} 1 14.7 251°.32 5°.0/16.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.52	+ 5 41.5	2.096	2.888	13.7	21.4
12 23	8 0.30	+ 5 35.5	2.005	2.877	10.9	21.2
1 2	7 53.08	+ 5 45.3	1.936	2.865	7.9	21.0
1 12	7 44.50	+ 6 11.2	1.895	2.853	5.4	20.8
1 22	7 35.44	+ 6 51.7	1.882	2.841	5.5	20.8
2 1	7 26.92	+ 7 43.6	1.898	2.829	8.0	20.9
2 11	7 19.88	+ 8 42.5	1.941	2.816	11.2	21.1
2 21	7 14.99	+ 9 43.9	2.007	2.803	14.2	21.3

94563 2001 VY_{29} 1 14.7 31°.76 2°.5/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.81	+24 30.1	1.177	2.038	17.8	18.6
12 23	8 4.58	+25 8.3	1.124	2.046	13.0	18.4
1 2	7 55.92	+25 50.3	1.093	2.056	7.6	18.1
1 12	7 45.11	+26 28.5	1.085	2.066	2.7	17.8
1 22	7 33.92	+26 56.5	1.104	2.077	5.4	18.0
2 1	7 24.24	+27 10.6	1.147	2.089	10.7	18.4
2 11	7 17.57	+27 11.2	1.212	2.101	15.4	18.7
2 21	7 14.61	+27 0.7	1.297	2.114	19.4	19.0

242227 2003 SC_{77} 1 14.7 123°.19 0°.4/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.07	+22 5.0	1.933	2.759	13.3	21.1
12 23	8 5.72	+22 13.3	1.871	2.776	9.7	20.9
1 2	7 56.08	+22 24.1	1.835	2.793	5.6	20.7
1 12	7 45.12	+22 34.1	1.827	2.809	1.2	20.4
1 22	7 33.98	+22 40.5	1.850	2.825	3.3	20.6
2 1	7 23.89	+22 41.9	1.903	2.840	7.5	20.9
2 11	7 15.83	+22 38.0	1.982	2.854	11.1	21.2
2 21	7 10.39	+22 29.8	2.085	2.868	14.2	21.4

460678 2014 UK_{170} 1 14.7 12°.71 3°.9/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.59	+12 50.1	1.588	2.417	15.6	20.1
12 23	8 1.43	+12 15.1	1.519	2.420	11.9	19.8
1 2	7 53.81	+11 51.4	1.473	2.423	7.8	19.6
1 12	7 44.66	+11 39.3	1.453	2.426	4.3	19.4
1 22	7 35.17	+11 37.7	1.460	2.430	5.0	19.5
2 1	7 26.63	+11 44.8	1.494	2.435	8.8	19.7
2 11	7 20.14	+11 57.7	1.553	2.441	12.7	19.9
2 21	7 16.37	+12 13.7	1.633	2.447	16.2	20.2

304099 2006 HG_{57} 1 14.7 196°.85 1°.1/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.91	+22 42.1	1.979	2.808	12.9	21.6
12 23	8 4.41	+23 16.1	1.898	2.805	9.5	21.4
1 2	7 55.51	+23 54.0	1.843	2.802	5.5	21.1
1 12	7 45.04	+24 31.2	1.817	2.799	1.5	20.8
1 22	7 34.09	+25 3.5	1.821	2.794	3.7	21.0
2 1	7 23.92	+25 27.9	1.854	2.789	7.8	21.2
2 11	7 15.63	+25 43.3	1.914	2.784	11.6	21.4
2 21	7 9.94	+25 50.3	1.997	2.777	14.8	21.6

339521 2005 GU_{157} 1 14.7 166°.63 2°.6/16.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.16	+11 4.6	2.916	3.713	10.1	22.1
12 23	7 58.74	+11 3.1	2.834	3.717	7.7	22.0
1 2	7 51.93	+11 9.9	2.779	3.721	5.1	21.8
1 12	7 44.25	+11 24.1	2.754	3.724	2.9	21.7
1 22	7 36.36	+11 44.4	2.759	3.727	3.2	21.7
2 1	7 28.94	+12 9.0	2.795	3.729	5.5	21.8
2 11	7 22.63	+12 35.8	2.859	3.731	8.1	22.0
2 21	7 17.88	+13 3.1	2.949	3.733	10.4	22.2

8941 Junsaito 1 14.7 111°.54 2°.2/15.9 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 3.55	+12 1.6	2.486	3.295	11.3	17.4
12 23	7 58.54	+12 22.1	2.408	3.299	8.5	17.2
1 2	7 51.91	+12 52.8	2.356	3.303	5.4	17.0
1 12	7 44.26	+13 31.7	2.332	3.307	2.6	16.8
1 22	7 36.35	+14 16.3	2.338	3.311	3.1	16.9
2 1	7 28.96	+15 3.6	2.375	3.315	6.1	17.1
2 11	7 22.86	+15 50.6	2.440	3.318	9.1	17.2
2 21	7 18.55	+16 34.9	2.529	3.322	11.7	17.4

166976 2003 OW_{10} 1 14.7 156°.40 1°.5/14.0 18

12 13	8 11.55	+23 11.2	2.030	2.857	12.7	21.0
12 23	8 4.76	+23 56.7	1.959	2.866	9.3	20.8
1 2	7 55.65	+24 45.7	1.915	2.873	5.4	20.5
1 12	7 45.08	+25 33.0	1.899	2.880	1.7	20.3
1 22	7 34.14	+26 14.0	1.915	2.887	3.7	20.5
2 1	7 24.04	+26 45.5	1.960	2.892	7.7	20.7
2 11	7 15.83	+27 6.7	2.032	2.897	11.2	20.9
2 21	7 10.17	+27 18.3	2.127	2.901	14.2	21.2

113722 2002 TV_{137} 1 14.7 50°.58 6°.6/13.4 17

12 13	8 16.85	+34 6.1	1.146	2.000	18.6	19.1
12 23	8 9.89	+34 46.1	1.103	2.016	14.1	18.8
1 2	7 58.98	+35 15.8	1.080	2.032	9.5	18.6
1 12	7 45.78	+35 25.5	1.081	2.049	6.7	18.5
1 22	7 32.49	+35 9.9	1.107	2.066	8.3	18.7
2 1	7 21.30	+34 30.3	1.158	2.084	12.4	19.0
2 11	7 13.75	+33 33.1	1.231	2.102	16.5	19.2
2 21	7 10.41	+32 25.8	1.322	2.120	20.0	19.5

491213 2011 US_{144} 1 14.7 118°.48 2°.8/13.7 18

12 13	8 12.98	+27 12.5	1.722	2.559	14.2	21.7
12 23	8 6.08	+27 45.4	1.661	2.570	10.4	21.5
1 2	7 56.49	+28 17.5	1.623	2.581	6.2	21.3
1 12	7 45.26	+28 43.1	1.614	2.592	2.9	21.1
1 22	7 33.75	+28 57.8	1.633	2.602	4.8	21.3
2 1	7 23.38	+28 59.7	1.681	2.612	8.8	21.5
2 11	7 15.35	+28 49.9	1.754	2.621	12.6	21.8
2 21	7 10.32	+28 31.1	1.849	2.630	15.8	22.0

301149 2008 XG_{56} 1 14.7 344°.48 1°.7/14.1 18

12 13	8 7.87	+22 43.9	1.250	2.108	17.1	20.5
12 23	8 3.26	+23 21.0	1.181	2.102	12.5	20.2
1 2	7 55.30	+24 5.1	1.133	2.097	7.3	19.9
1 12	7 45.07	+24 49.8	1.110	2.092	2.1	19.6
1 22	7 34.16	+25 28.0	1.113	2.088	5.0	19.8
2 1	7 24.42	+25 55.1	1.141	2.085	10.5	20.0
2 11	7 17.42	+26 9.5	1.192	2.083	15.5	20.3
2 21	7 14.07	+26 12.2	1.261	2.081	19.7	20.6

473296 2015 QR_{10} 1 14.7 42°.40 5°.3/16.4 17

12 13	8 8.33	+ 9 39.1	1.119	1.959	20.0	20.6
12 23	8 3.25	+ 9 26.1	1.072	1.976	15.3	20.4
1 2	7 55.04	+ 9 34.9	1.045	1.994	10.2	20.2
1 12	7 44.96	+10 4.2	1.041	2.012	5.9	20.0
1 22	7 34.64	+10 49.6	1.061	2.032	6.3	20.1
2 1	7 25.76	+11 44.7	1.106	2.051	10.5	20.3
2 11	7 19.67	+12 42.9	1.173	2.072	15.0	20.7
2 21	7 16.99	+13 38.3	1.260	2.093	18.9	21.0

206337 2003 OJ_{30} 1 14.7 179°.65 1°.0/14.2 18

12 13	8 11.20	+22 28.8	2.057	2.884	12.6	21.5
12 23	8 4.52	+23 3.6	1.980	2.886	9.2	21.3
1 2	7 55.54	+23 42.2	1.928	2.887	5.3	21.1
1 12	7 45.07	+24 20.2	1.906	2.887	1.4	20.8
1 22	7 34.20	+24 53.4	1.914	2.887	3.5	20.9
2 1	7 24.09	+25 18.9	1.951	2.886	7.5	21.2
2 11	7 15.82	+25 35.7	2.016	2.884	11.2	21.4
2 21	7 10.06	+25 44.3	2.105	2.882	14.3	21.6

375316 2008 RK_{62} 1 14.7 54°.64 5°.6/12.6 18

12 13	8 11.54	+36 4.1	1.985	2.815	12.9	21.0
12 23	8 5.00	+36 46.5	1.921	2.819	9.9	20.8
1 2	7 55.86	+37 20.9	1.881	2.823	7.1	20.6
1 12	7 45.13	+37 41.2	1.869	2.826	5.6	20.6
1 22	7 34.10	+37 43.1	1.884	2.830	6.7	20.6
2 1	7 24.14	+37 26.1	1.928	2.834	9.5	20.8
2 11	7 16.40	+36 52.6	1.996	2.838	12.4	21.0
2 21	7 11.53	+36 7.1	2.086	2.842	15.0	21.2

460903 2014 WO_{193} 1 14.7 188°.90 0°.2/14.6 18

12 13	8 9.34	+21 16.1	2.471	3.291	11.0	21.7
12 23	8 2.80	+21 27.2	2.388	3.290	8.0	21.5
1 2	7 54.40	+21 41.3	2.331	3.288	4.6	21.3
1 12	7 44.82	+21 55.6	2.304	3.286	1.0	21.0
1 22	7 34.93	+22 7.9	2.308	3.283	2.8	21.2
2 1	7 25.67	+22 16.4	2.343	3.279	6.3	21.4
2 11	7 17.89	+22 20.5	2.407	3.275	9.6	21.6
2 21	7 12.17	+22 20.2	2.494	3.270	12.3	21.8

428862 2008 UK_{125} 1 14.7 86°.20 2°.1/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 8.78	+26 57.7	2.158	2.991	11.9	21.7
12 23	8 2.58	+27 15.0	2.092	3.000	8.7	21.5
1 2	7 54.31	+27 31.3	2.051	3.009	5.1	21.3
1 12	7 44.80	+27 42.9	2.039	3.018	2.2	21.1
1 22	7 35.08	+27 46.9	2.057	3.027	3.8	21.2
2 1	7 26.22	+27 42.2	2.104	3.036	7.3	21.5
2 11	7 19.14	+27 29.2	2.179	3.045	10.5	21.7
2 21	7 14.42	+27 9.7	2.276	3.054	13.3	21.9

278274 2007 FU_{49} 1 14.7 258°.26 0°.3/14.8 18

12 13	8 6.36	+17 56.2	2.052	2.880	12.6	20.3
12 23	8 1.06	+18 35.3	1.966	2.872	9.3	20.1
1 2	7 53.61	+19 23.0	1.905	2.863	5.4	19.8
1 12	7 44.69	+20 15.8	1.872	2.854	1.3	19.5
1 22	7 35.28	+21 9.3	1.870	2.846	3.1	19.6
2 1	7 26.47	+21 59.4	1.896	2.837	7.3	19.9
2 11	7 19.27	+22 43.2	1.950	2.828	11.0	20.1
2 21	7 14.40	+23 19.3	2.027	2.819	14.2	20.3

135297 2001 SX_{214} 1 14.7 169°.77 0°.6/15.0 18

12 13	8 4.88	+17 43.6	2.685	3.502	10.3	20.6
12 23	7 59.44	+18 6.5	2.605	3.505	7.5	20.4
1 2	7 52.42	+18 35.0	2.551	3.507	4.4	20.2
1 12	7 44.41	+19 6.9	2.527	3.509	1.2	20.0
1 22	7 36.12	+19 39.5	2.535	3.511	2.5	20.1
2 1	7 28.36	+20 10.6	2.573	3.512	5.7	20.3
2 11	7 21.83	+20 38.4	2.639	3.513	8.6	20.5
2 21	7 17.06	+21 1.9	2.731	3.513	11.2	20.7

274655 2008 TL_{151} 1 14.7 205°.11 0°.2/14.6 18

12 13	8 6.55	+20 24.0	2.114	2.944	12.2	20.9
12 23	8 1.07	+20 49.4	2.036	2.944	8.9	20.7
1 2	7 53.53	+21 20.1	1.984	2.943	5.1	20.5
1 12	7 44.66	+21 52.7	1.960	2.943	1.1	20.2
1 22	7 35.44	+22 23.7	1.966	2.942	3.1	20.3
2 1	7 26.90	+22 50.3	2.001	2.941	7.0	20.6
2 11	7 20.00	+23 11.0	2.064	2.940	10.6	20.8
2 21	7 15.36	+23 25.3	2.149	2.939	13.6	21.0

502502 2015 BN_{411} 1 14.7 239°.19 1°.1/15.3 17

12 13	8 4.60	+15 40.7	2.413	3.231	11.2	21.7
12 23	7 59.46	+16 9.6	2.326	3.226	8.3	21.5
1 2	7 52.54	+16 46.9	2.265	3.220	5.0	21.2
1 12	7 44.45	+17 30.2	2.233	3.214	1.6	21.0
1 22	7 35.99	+18 16.3	2.232	3.207	2.7	21.1
2 1	7 28.04	+19 2.0	2.261	3.201	6.2	21.3
2 11	7 21.43	+19 44.6	2.317	3.195	9.5	21.5
2 21	7 16.73	+20 22.4	2.398	3.188	12.4	21.7

418173 2008 BY_{21} 1 14.7 257°.42 3°.9/16.6 18

12 13	8 6.18	+ 8 27.1	1.854	2.662	14.6	21.3
12 23	8 1.04	+ 8 45.4	1.768	2.655	11.3	21.1
1 2	7 53.64	+ 9 20.8	1.706	2.647	7.7	20.8
1 12	7 44.71	+10 11.9	1.670	2.640	4.5	20.6
1 22	7 35.26	+11 15.4	1.663	2.632	4.7	20.6
2 1	7 26.45	+12 26.4	1.685	2.625	8.1	20.8
2 11	7 19.33	+13 39.4	1.733	2.617	11.8	21.0
2 21	7 14.65	+14 49.8	1.805	2.609	15.2	21.2

186537 2002 VZ_{108} 1 14.7 38°.04 1°.5/14.3 18

12 13	8 9.49	+23 45.1	1.429	2.279	15.8	19.6
12 23	8 3.84	+24 4.3	1.373	2.290	11.5	19.4
1 2	7 55.31	+24 26.3	1.340	2.302	6.7	19.1
1 12	7 45.05	+24 46.2	1.333	2.315	1.9	18.9
1 22	7 34.53	+24 59.7	1.353	2.328	4.3	19.1
2 1	7 25.28	+25 4.3	1.399	2.341	9.2	19.4
2 11	7 18.54	+25 0.2	1.470	2.355	13.5	19.7
2 21	7 14.98	+24 48.8	1.561	2.369	17.0	19.9

466229 2012 TP_{218} 1 14.7 122°.62 4°.6/17.6 18

12 13	8 3.85	+ 2 45.2	3.013	3.775	10.6	22.8
12 23	7 58.41	+ 2 33.8	2.944	3.792	8.5	22.6
1 2	7 51.71	+ 2 34.8	2.900	3.809	6.4	22.5
1 12	7 44.26	+ 2 48.1	2.884	3.826	4.9	22.4
1 22	7 36.66	+ 3 12.8	2.898	3.842	4.8	22.4
2 1	7 29.55	+ 3 47.0	2.942	3.858	6.2	22.6
2 11	7 23.51	+ 4 27.8	3.015	3.873	8.2	22.7
2 21	7 18.95	+ 5 12.3	3.113	3.888	10.1	22.9

15712 1989 RN_{2} 1 14.7 153°.41 3°.3/13.0 18

12 13	8 8.57	+33 4.2	2.951	3.771	9.4	18.9
12 23	8 2.07	+33 33.1	2.882	3.778	7.0	18.7
1 2	7 53.90	+33 57.4	2.839	3.785	4.7	18.6
1 12	7 44.73	+34 13.8	2.826	3.792	3.3	18.5
1 22	7 35.37	+34 19.9	2.845	3.798	4.3	18.5
2 1	7 26.66	+34 14.6	2.893	3.803	6.5	18.7
2 11	7 19.36	+33 59.1	2.969	3.809	8.8	18.9
2 21	7 13.97	+33 35.1	3.070	3.814	10.9	19.0

307237 2002 JR_6 1 14.7 315°.23 3°.7/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.80	+24 10.0	1.299	2.159	16.5	20.1
12 23	8 2.86	+25 39.5	1.211	2.133	12.3	19.8
1 2	7 55.40	+27 21.3	1.146	2.108	7.4	19.5
1 12	7 45.22	+29 5.7	1.105	2.084	3.8	19.2
1 22	7 33.77	+30 41.3	1.091	2.060	6.6	19.3
2 1	7 23.01	+31 58.3	1.102	2.037	12.0	19.5
2 11	7 14.86	+32 52.3	1.136	2.014	17.1	19.7
2 21	7 10.59	+33 24.2	1.187	1.993	21.5	19.9

39920 1998 FW_{53} 1 14.7 231°.33 0°.5/14.8 18

12 13	8 10.26	+19 19.5	1.826	2.656	13.8	19.7
12 23	8 4.11	+19 28.2	1.741	2.647	10.2	19.5
1 2	7 55.46	+19 43.0	1.681	2.639	6.0	19.2
1 12	7 45.13	+20 1.0	1.648	2.630	1.4	18.9
1 22	7 34.27	+20 18.9	1.644	2.620	3.4	19.0
2 1	7 24.18	+20 34.1	1.670	2.611	8.0	19.3
2 11	7 16.04	+20 45.2	1.721	2.600	12.2	19.5
2 21	7 10.61	+20 51.8	1.795	2.590	15.7	19.7

237503 2000 QP_{186} 1 14.7 151°.76 2°.3/13.8 18

12 13	8 13.09	+25 48.3	1.883	2.714	13.4	21.0
12 23	8 6.05	+26 28.3	1.816	2.723	9.8	20.8
1 2	7 56.49	+27 9.2	1.773	2.731	5.8	20.6
1 12	7 45.34	+27 45.5	1.760	2.739	2.4	20.4
1 22	7 33.83	+28 12.5	1.776	2.745	4.4	20.5
2 1	7 23.31	+28 27.7	1.821	2.751	8.3	20.8
2 11	7 14.91	+28 31.4	1.893	2.757	12.0	21.0
2 21	7 9.31	+28 25.4	1.987	2.762	15.1	21.2

206875 2004 FS_{124} 1 14.7 164°.61 3°.1/16.4 18

12 13	8 3.80	+ 9 40.9	2.569	3.368	11.2	20.5
12 23	7 58.69	+ 9 42.2	2.488	3.369	8.6	20.3
1 2	7 52.01	+ 9 54.0	2.432	3.371	5.8	20.1
1 12	7 44.36	+10 15.6	2.405	3.373	3.5	20.0
1 22	7 36.44	+10 45.2	2.407	3.374	3.7	20.0
2 1	7 29.03	+11 20.5	2.440	3.375	6.2	20.2
2 11	7 22.85	+11 58.6	2.501	3.376	9.0	20.3
2 21	7 18.41	+12 37.2	2.586	3.377	11.5	20.5

267825 2003 UR_{63} 1 14.7 115°.28 0°.6/15.0 18

12 13	8 6.24	+17 25.3	2.222	3.045	11.9	20.4
12 23	8 0.68	+17 54.1	2.151	3.054	8.7	20.2
1 2	7 53.24	+18 30.0	2.105	3.062	5.1	20.0
1 12	7 44.63	+19 10.2	2.088	3.070	1.3	19.7
1 22	7 35.73	+19 51.1	2.102	3.078	2.8	19.8
2 1	7 27.51	+20 29.6	2.145	3.086	6.5	20.1
2 11	7 20.82	+21 3.6	2.216	3.093	9.9	20.3
2 21	7 16.24	+21 32.0	2.311	3.101	12.8	20.5

235969 2005 EK_{239} 1 14.7 13°.54 0°.6/14.9 18

12 13	8 5.44	+18 13.7	1.994	2.826	12.7	20.6
12 23	8 0.33	+18 32.7	1.920	2.827	9.4	20.4
1 2	7 53.14	+18 58.8	1.870	2.828	5.5	20.2
1 12	7 44.62	+19 29.1	1.848	2.830	1.4	19.9
1 22	7 35.76	+20 0.3	1.855	2.832	3.1	20.0
2 1	7 27.62	+20 29.5	1.891	2.834	7.1	20.3
2 11	7 21.16	+20 54.4	1.954	2.836	10.8	20.5
2 21	7 17.00	+21 14.2	2.039	2.838	13.9	20.7

92064 1999 WA_{13} 1 14.7 9°.39 5°.5/13.3 18 R

12 13	8 12.55	+35 26.4	1.719	2.555	14.2	18.4
12 23	8 5.99	+35 46.6	1.653	2.557	10.9	18.2
1 2	7 56.54	+35 57.6	1.612	2.558	7.5	18.0
1 12	7 45.35	+35 53.2	1.596	2.560	5.5	17.9
1 22	7 33.90	+35 30.0	1.608	2.563	6.8	18.0
2 1	7 23.73	+34 48.3	1.648	2.566	10.0	18.2
2 11	7 16.09	+33 51.9	1.712	2.569	13.4	18.4
2 21	7 11.63	+32 46.1	1.797	2.574	16.4	18.6

247820 2003 SC_{156} 1 14.7 111°.57 2°.6/15.9 18

12 13	8 5.86	+12 22.9	2.191	3.002	12.5	20.4
12 23	8 0.38	+12 25.0	2.118	3.010	9.4	20.2
1 2	7 53.06	+12 37.3	2.070	3.017	6.0	20.1
1 12	7 44.60	+12 58.5	2.050	3.025	3.1	19.9
1 22	7 35.87	+13 26.2	2.060	3.032	3.6	19.9
2 1	7 27.82	+13 57.9	2.100	3.039	6.7	20.1
2 11	7 21.28	+14 30.7	2.167	3.046	10.0	20.3
2 21	7 16.80	+15 2.4	2.257	3.053	12.8	20.5

388865 2008 QB_3 1 14.7 184°.35 6°.3/13.5 18

12 13	8 25.64	+39 7.0	1.874	2.683	14.4	20.9
12 23	8 15.42	+39 21.1	1.800	2.683	11.3	20.7
1 2	8 1.93	+39 21.3	1.750	2.683	8.2	20.5
1 12	7 46.51	+39 0.2	1.729	2.683	6.3	20.4
1 22	7 30.89	+38 14.2	1.737	2.681	7.4	20.5
2 1	7 16.88	+37 5.5	1.775	2.678	10.3	20.6
2 11	7 5.87	+35 40.4	1.840	2.675	13.6	20.8
2 21	6 58.51	+34 6.8	1.927	2.671	16.5	21.0

28908 2000 NY_6 1 14.7 132°.77 1°.3/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 5.98	+16 57.9	2.496	3.314	11.0	18.7
12 23	8 0.29	+16 50.3	2.420	3.319	8.1	18.5
1 2	7 52.95	+16 48.0	2.369	3.323	4.9	18.3
1 12	7 44.59	+16 49.6	2.348	3.328	1.8	18.1
1 22	7 36.01	+16 53.7	2.357	3.332	2.8	18.2
2 1	7 28.04	+16 58.8	2.397	3.337	6.0	18.4
2 11	7 21.45	+17 4.0	2.465	3.341	9.1	18.6
2 21	7 16.73	+17 8.2	2.557	3.345	11.7	18.8

76314 2000 EN_{139} 1 14.7 49°.58 2°.3/13.6 18

12 13	8 8.79	+22 20.5	1.475	2.323	15.5	17.5
12 23	8 3.41	+23 45.5	1.421	2.337	11.3	17.3
1 2	7 55.17	+25 17.7	1.390	2.351	6.5	17.1
1 12	7 45.11	+26 48.5	1.386	2.366	2.5	16.9
1 22	7 34.62	+28 9.2	1.410	2.381	5.0	17.0
2 1	7 25.26	+29 14.0	1.462	2.397	9.5	17.3
2 11	7 18.30	+30 0.8	1.538	2.413	13.6	17.6
2 21	7 14.49	+30 30.8	1.635	2.429	17.0	17.9

156554 2002 ET_{39} 1 14.7 19°.16 3°.8/16.3 18

12 13	8 5.82	+10 11.3	1.914	2.727	14.0	20.0
12 23	8 0.64	+10 6.3	1.838	2.727	10.8	19.8
1 2	7 53.34	+10 14.5	1.784	2.728	7.2	19.6
1 12	7 44.70	+10 35.4	1.758	2.728	4.2	19.4
1 22	7 35.69	+11 6.6	1.760	2.729	4.5	19.4
2 1	7 27.39	+11 45.0	1.791	2.730	7.7	19.6
2 11	7 20.77	+12 26.9	1.848	2.731	11.3	19.8
2 21	7 16.46	+13 8.9	1.928	2.731	14.4	20.0

204123 2003 XU_7 1 14.7 81°.34 1°.6/14.2 18

12 13	8 9.48	+25 58.3	2.119	2.951	12.1	20.0
12 23	8 3.10	+26 4.0	2.053	2.961	8.8	19.8
1 2	7 54.64	+26 8.9	2.012	2.971	5.1	19.6
1 12	7 44.96	+26 9.9	2.001	2.981	1.8	19.4
1 22	7 35.09	+26 4.7	2.019	2.991	3.5	19.5
2 1	7 26.12	+25 52.4	2.066	3.001	7.2	19.8
2 11	7 18.96	+25 33.6	2.141	3.011	10.5	20.0
2 21	7 14.18	+25 10.0	2.239	3.021	13.3	20.2

455866 2005 UB_{75} 1 14.7 136°.68 7°.5/11.7 18

12 13	8 15.38	+41 5.8	2.011	2.828	13.2	21.5
12 23	8 8.01	+42 10.7	1.952	2.834	10.6	21.4
1 2	7 57.74	+43 3.9	1.918	2.840	8.4	21.3
1 12	7 45.65	+43 37.7	1.910	2.846	7.5	21.2
1 22	7 33.20	+43 47.0	1.931	2.851	8.5	21.3
2 1	7 21.95	+43 31.4	1.978	2.857	10.7	21.4
2 11	7 13.20	+42 54.6	2.049	2.862	13.3	21.6
2 21	7 7.66	+42 2.4	2.140	2.866	15.6	21.8

89606 2001 XF_{173} 1 14.7 93°.77 0°.5/14.9 18

12 13	8 12.93	+18 3.0	1.595	2.425	15.5	19.8
12 23	8 5.95	+18 33.1	1.544	2.450	11.3	19.6
1 2	7 56.39	+19 11.6	1.517	2.475	6.5	19.4
1 12	7 45.34	+19 53.7	1.517	2.499	1.5	19.1
1 22	7 34.12	+20 34.7	1.546	2.523	3.6	19.3
2 1	7 24.12	+21 10.6	1.604	2.546	8.2	19.6
2 11	7 16.45	+21 39.6	1.688	2.568	12.3	19.9
2 21	7 11.72	+22 1.1	1.794	2.590	15.6	20.2

191994 2005 XV_{21} 1 14.7 50°.30 1°.3/14.9 18

12 13	8 12.11	+19 14.1	1.298	2.144	17.4	19.8
12 23	8 5.95	+18 55.1	1.237	2.151	12.8	19.6
1 2	7 56.66	+18 42.9	1.198	2.158	7.6	19.3
1 12	7 45.43	+18 35.0	1.185	2.166	2.2	19.0
1 22	7 33.86	+18 29.1	1.197	2.174	4.3	19.2
2 1	7 23.66	+18 23.4	1.237	2.182	9.6	19.5
2 11	7 16.19	+18 17.1	1.300	2.191	14.4	19.8
2 21	7 12.15	+18 9.8	1.383	2.200	18.4	20.1

433108 2012 TN_{123} 1 14.7 139°.58 3°.1/16.2 18

12 13	8 4.68	+10 11.6	2.687	3.484	10.8	21.2
12 23	7 59.24	+ 9 58.7	2.610	3.491	8.3	21.1
1 2	7 52.31	+ 9 54.8	2.559	3.498	5.6	20.9
1 12	7 44.48	+ 9 59.7	2.537	3.504	3.4	20.8
1 22	7 36.44	+10 12.1	2.545	3.511	3.7	20.8
2 1	7 28.93	+10 30.4	2.584	3.517	6.0	21.0
2 11	7 22.64	+10 52.5	2.650	3.523	8.7	21.1
2 21	7 18.02	+11 16.3	2.742	3.528	11.1	21.3

221702 2007 DR_{95} 1 14.7 337°.51 7°.8/12.3 18

12 13	8 12.53	+38 51.9	1.568	2.406	15.3	20.1
12 23	8 6.58	+39 44.5	1.499	2.398	12.1	19.9
1 2	7 57.22	+40 26.1	1.453	2.390	9.2	19.7
1 12	7 45.60	+40 47.4	1.432	2.383	7.8	19.6
1 22	7 33.44	+40 42.4	1.437	2.376	9.1	19.7
2 1	7 22.61	+40 10.3	1.467	2.370	12.1	19.8
2 11	7 14.66	+39 15.6	1.519	2.365	15.4	20.0
2 21	7 10.39	+38 5.2	1.592	2.360	18.5	20.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
460961 2014 WL_{281}			1 14.7	69°.56	0°.7/15.0	18
	h m	° ′			°	m
12 13	8 7.02	+17 26.9	1.858	2.689	13.6	21.6
12 23	8 1.58	+17 53.6	1.790	2.697	10.0	21.4
1 2	7 53.92	+18 28.9	1.747	2.704	5.9	21.1
1 12	7 44.86	+19 9.2	1.731	2.712	1.5	20.9
1 22	7 35.47	+19 50.5	1.744	2.720	3.2	21.0
2 1	7 26.90	+20 29.2	1.786	2.728	7.5	21.3
2 11	7 20.17	+21 2.8	1.854	2.736	11.3	21.5
2 21	7 15.91	+21 30.0	1.945	2.744	14.5	21.8
248210 2005 EE_{96}			1 14.7	266°.73	0°.7/14.9	18
12 13	8 7.42	+19 21.4	2.207	3.032	11.9	20.4
12 23	8 1.67	+19 13.3	2.120	3.024	8.8	20.2
1 2	7 53.91	+19 9.3	2.058	3.015	5.2	20.0
1 12	7 44.86	+19 7.6	2.025	3.007	1.4	19.7
1 22	7 35.45	+19 6.5	2.022	2.998	2.9	19.8
2 1	7 26.69	+19 4.7	2.049	2.989	6.8	20.0
2 11	7 19.49	+19 1.3	2.103	2.981	10.3	20.2
2 21	7 14.48	+18 56.1	2.181	2.972	13.4	20.4
522487 2016 ED_{230}			1 14.7	135°.38	3°.3/13.3	18
12 13	8 9.28	+28 24.5	1.981	2.817	12.6	21.9
12 23	8 3.33	+29 14.1	1.911	2.820	9.3	21.7
1 2	7 54.99	+30 3.2	1.866	2.822	5.8	21.5
1 12	7 45.11	+30 45.9	1.850	2.824	3.3	21.3
1 22	7 34.83	+31 17.4	1.862	2.826	4.9	21.4
2 1	7 25.39	+31 35.2	1.903	2.828	8.4	21.6
2 11	7 17.90	+31 39.4	1.971	2.830	11.8	21.8
2 21	7 13.04	+31 32.1	2.060	2.832	14.7	22.1
26027 Cotopaxi			1 14.7	18°.78	21°.5/28.4	18 R
12 13	8 3.57	−20 23.1	1.005	1.729	29.3	18.4
12 23	8 0.36	−21 52.0	0.958	1.733	27.2	18.2
1 2	7 53.76	−22 26.2	0.921	1.738	25.0	18.1
1 12	7 44.90	−21 54.4	0.896	1.744	23.0	18.0
1 22	7 35.41	−20 12.5	0.886	1.751	21.7	17.9
2 1	7 27.19	−17 26.6	0.892	1.759	21.6	17.9
2 11	7 21.84	−13 53.6	0.917	1.768	22.6	18.0
2 21	7 20.22	− 9 56.0	0.958	1.779	24.4	18.2
274682 2008 US_{14}			1 14.7	134°.85	0°.8/14.4	18
12 13	8 7.81	+22 33.5	2.257	3.086	11.6	21.4
12 23	8 1.87	+22 55.7	2.186	3.092	8.4	21.2
1 2	7 53.97	+23 20.7	2.140	3.099	4.8	21.0
1 12	7 44.87	+23 45.0	2.123	3.105	1.2	20.8
1 22	7 35.51	+24 5.8	2.137	3.111	3.1	20.9
2 1	7 26.86	+24 20.9	2.180	3.117	6.7	21.2
2 11	7 19.82	+24 29.6	2.251	3.122	10.0	21.4
2 21	7 14.96	+24 32.2	2.345	3.127	12.8	21.6
125099 2001 UM_{33}			1 14.7	74°.99	0°.5/14.5	18
12 13	8 10.78	+19 24.7	1.387	2.231	16.6	19.7
12 23	8 4.91	+20 13.4	1.331	2.244	12.1	19.5
1 2	7 56.06	+21 11.6	1.297	2.258	7.0	19.2
1 12	7 45.35	+22 13.1	1.289	2.272	1.5	18.9
1 22	7 34.27	+23 10.8	1.309	2.285	4.1	19.2
2 1	7 24.41	+23 59.4	1.356	2.299	9.3	19.5
2 11	7 17.10	+24 36.6	1.428	2.312	13.8	19.8
2 21	7 13.07	+25 2.1	1.520	2.326	17.5	20.1
289644 2005 GM_{100}			1 14.7	279°.55	1°.2/15.1	18
12 13	8 8.88	+17 39.5	1.656	2.490	14.8	21.5
12 23	8 3.42	+17 45.3	1.567	2.475	11.0	21.2
1 2	7 55.26	+17 59.7	1.502	2.459	6.6	20.9
1 12	7 45.22	+18 20.2	1.463	2.444	2.0	20.6
1 22	7 34.51	+18 43.4	1.452	2.428	3.7	20.7
2 1	7 24.53	+19 6.0	1.469	2.413	8.6	20.9
2 11	7 16.59	+19 25.8	1.511	2.397	13.1	21.2
2 21	7 11.55	+19 41.4	1.575	2.381	17.0	21.4
105003 2000 KX_{5}			1 14.7	102°.96	1°.2/15.3	18
12 13	8 8.87	+15 23.0	2.029	2.848	13.1	19.9
12 23	8 2.66	+15 58.4	1.969	2.868	9.6	19.7
1 2	7 54.43	+16 43.1	1.934	2.888	5.7	19.5
1 12	7 44.98	+17 33.7	1.927	2.908	1.8	19.3
1 22	7 35.31	+18 26.0	1.951	2.927	3.1	19.4
2 1	7 26.47	+19 16.1	2.005	2.946	6.9	19.7
2 11	7 19.36	+20 1.3	2.087	2.964	10.4	19.9
2 21	7 14.56	+20 39.9	2.192	2.982	13.4	20.2
449203 2013 CX_{55}			1 14.7	353°.85	1°.7/15.1	18
12 13	8 9.26	+18 2.1	1.292	2.140	17.3	20.6
12 23	8 4.06	+17 46.7	1.223	2.137	12.9	20.3
1 2	7 55.71	+17 39.9	1.175	2.135	7.7	20.0
1 12	7 45.31	+17 39.6	1.152	2.133	2.5	19.7
1 22	7 34.38	+17 43.1	1.156	2.132	4.4	19.8
2 1	7 24.62	+17 47.9	1.185	2.132	9.8	20.1
2 11	7 17.47	+17 52.2	1.237	2.132	14.7	20.4
2 21	7 13.74	+17 54.8	1.309	2.133	18.8	20.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
49295 1998 VJ_{2}			1 14.7	182°.96	3°.5/13.2	18
	h m	° ′			°	m
12 13	8 11.66	+29 26.1	2.059	2.890	12.4	19.3
12 23	8 5.04	+30 13.8	1.985	2.890	9.2	19.1
1 2	7 55.98	+30 59.8	1.937	2.890	5.8	18.9
1 12	7 45.34	+31 38.4	1.917	2.890	3.5	18.8
1 22	7 34.28	+32 4.9	1.927	2.889	5.1	18.9
2 1	7 24.06	+32 17.0	1.966	2.888	8.4	19.1
2 11	7 15.80	+32 15.3	2.032	2.886	11.7	19.3
2 21	7 10.20	+32 2.1	2.120	2.884	14.6	19.5
462132 2007 RY_{255}			1 14.7	65°.22	4°.0/16.7	18
12 13	8 4.40	+ 7 55.4	2.152	2.952	13.1	21.3
12 23	7 59.39	+ 7 57.7	2.077	2.958	10.2	21.1
1 2	7 52.56	+ 8 14.0	2.027	2.963	7.0	20.9
1 12	7 44.59	+ 8 43.4	2.004	2.969	4.4	20.8
1 22	7 36.32	+ 9 23.9	2.009	2.974	4.5	20.8
2 1	7 28.69	+10 12.0	2.044	2.980	7.2	20.9
2 11	7 22.52	+11 3.9	2.106	2.986	10.2	21.1
2 21	7 18.37	+11 56.0	2.192	2.991	13.0	21.3
192702 1999 TR_{67}			1 14.7	48°.17	1°.0/15.1	18
12 13	8 6.62	+17 30.4	1.916	2.746	13.3	20.5
12 23	8 1.25	+17 43.1	1.844	2.750	9.8	20.3
1 2	7 53.72	+18 3.4	1.797	2.755	5.8	20.0
1 12	7 44.84	+18 28.7	1.778	2.759	1.7	19.8
1 22	7 35.64	+18 55.7	1.788	2.764	3.2	19.9
2 1	7 27.22	+19 21.7	1.826	2.769	7.3	20.2
2 11	7 20.57	+19 44.5	1.891	2.774	11.0	20.4
2 21	7 16.31	+20 3.0	1.979	2.779	14.2	20.6
453162 2008 CH_{168}			1 14.7	351°.15	1°.8/15.5	18
12 13	8 1.48	+13 51.9	1.145	2.004	18.3	20.1
12 23	7 58.74	+14 37.8	1.074	1.993	13.8	19.8
1 2	7 52.84	+15 45.3	1.023	1.984	8.4	19.5
1 12	7 44.73	+17 9.7	0.996	1.977	2.8	19.2
1 22	7 35.86	+18 42.9	0.993	1.971	4.4	19.3
2 1	7 27.97	+20 15.2	1.015	1.968	10.2	19.6
2 11	7 22.64	+21 38.5	1.059	1.966	15.6	19.8
2 21	7 20.82	+22 48.0	1.123	1.965	20.1	20.1
464424 2016 BE_{30}			1 14.7	214°.04	0°.8/14.4	18
12 13	8 8.74	+21 43.1	2.047	2.877	12.5	22.0
12 23	8 2.85	+22 17.5	1.965	2.872	9.2	21.8
1 2	7 54.71	+22 56.8	1.908	2.868	5.3	21.5
1 12	7 45.08	+23 36.7	1.880	2.862	1.3	21.2
1 22	7 35.00	+24 13.3	1.882	2.857	3.4	21.4
2 1	7 25.60	+24 43.2	1.914	2.851	7.5	21.6
2 11	7 17.93	+25 5.0	1.972	2.845	11.2	21.8
2 21	7 12.70	+25 18.7	2.053	2.838	14.3	22.0
359389 2010 GE_{153}			1 14.7	139°.42	3°.6/16.4	18
12 13	8 8.67	+ 9 17.2	1.986	2.788	13.9	21.1
12 23	8 2.61	+ 9 28.7	1.914	2.798	10.7	20.9
1 2	7 54.46	+ 9 54.4	1.867	2.808	7.1	20.7
1 12	7 45.02	+10 32.8	1.848	2.818	4.1	20.6
1 22	7 35.27	+11 20.9	1.858	2.827	4.3	20.6
2 1	7 26.27	+12 14.7	1.898	2.835	7.5	20.8
2 11	7 18.97	+13 9.9	1.965	2.843	10.9	21.0
2 21	7 13.99	+14 3.3	2.056	2.851	14.0	21.2
473561 2015 XN_{212}			1 14.7	354°.97	2°.9/13.6	18
12 13	8 7.26	+24 16.8	1.252	2.113	16.9	20.8
12 23	8 2.91	+25 16.8	1.187	2.109	12.4	20.5
1 2	7 55.21	+26 23.2	1.143	2.106	7.3	20.2
1 12	7 45.25	+27 27.7	1.124	2.104	3.1	20.0
1 22	7 34.61	+28 22.0	1.130	2.102	5.7	20.1
2 1	7 25.13	+29 0.4	1.162	2.102	10.8	20.4
2 11	7 18.42	+29 21.5	1.216	2.103	15.6	20.7
2 21	7 15.34	+29 27.0	1.289	2.104	19.6	21.0
258136 2001 RU_{65}			1 14.7	132°.36	2°.8/15.9	18
12 13	8 8.85	+12 5.4	2.275	3.078	12.4	21.6
12 23	8 2.46	+12 1.2	2.206	3.093	9.3	21.4
1 2	7 54.25	+12 6.6	2.163	3.108	6.0	21.2
1 12	7 44.97	+12 20.4	2.149	3.122	3.2	21.0
1 22	7 35.48	+12 40.8	2.165	3.135	3.6	21.1
2 1	7 26.71	+13 5.3	2.211	3.147	6.7	21.3
2 11	7 19.48	+13 31.7	2.285	3.159	9.8	21.5
2 21	7 14.32	+13 57.8	2.384	3.171	12.5	21.7
404446 2013 GC_{103}			1 14.7	209°.80	1°.9/15.5	18
12 13	8 8.77	+15 0.7	1.763	2.589	14.4	21.0
12 23	8 3.07	+15 13.5	1.684	2.586	10.8	20.8
1 2	7 54.92	+15 37.3	1.629	2.583	6.6	20.5
1 12	7 45.16	+16 9.5	1.601	2.581	2.5	20.3
1 22	7 34.92	+16 46.6	1.602	2.577	3.7	20.3
2 1	7 25.46	+17 24.8	1.631	2.574	8.0	20.6
2 11	7 17.91	+18 1.0	1.687	2.570	12.1	20.8
2 21	7 13.03	+18 33.1	1.765	2.567	15.6	21.0

120060 2003 BP_{84} 1 14.7 60°.81 2°.5/13.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 12.51	+23 19.6	1.222	2.076	17.7	19.3
12 23	8 6.43	+24 26.0	1.178	2.097	12.8	19.1
1 2	7 57.02	+25 37.6	1.156	2.118	7.4	18.9
1 12	7 45.60	+26 45.4	1.159	2.139	2.8	18.7
1 22	7 33.92	+27 41.0	1.189	2.161	5.4	18.9
2 1	7 23.80	+28 19.9	1.244	2.183	10.4	19.2
2 11	7 16.67	+28 41.8	1.323	2.205	14.9	19.6
2 21	7 13.17	+28 49.2	1.422	2.227	18.6	19.9

146086 2000 JH_{4} 1 14.7 80°.35 1°.6/15.3 18

12 13	8 9.45	+16 6.5	1.748	2.575	14.5	20.3
12 23	8 3.32	+16 12.2	1.690	2.594	10.7	20.1
1 2	7 54.89	+16 27.0	1.656	2.612	6.4	19.9
1 12	7 45.12	+16 48.2	1.650	2.630	2.3	19.6
1 22	7 35.14	+17 12.6	1.672	2.647	3.5	19.8
2 1	7 26.17	+17 37.3	1.723	2.665	7.7	20.1
2 11	7 19.21	+18 0.1	1.800	2.683	11.5	20.3
2 21	7 14.84	+18 19.5	1.899	2.700	14.7	20.6

498924 2009 BV_{22} 1 14.7 310°.70 5°.0/13.1 17

12 13	8 11.57	+36 4.0	2.123	2.950	12.3	21.1
12 23	8 5.04	+36 22.2	2.039	2.936	9.5	20.9
1 2	7 56.01	+36 32.2	1.980	2.923	6.7	20.7
1 12	7 45.38	+36 28.7	1.948	2.909	5.0	20.6
1 22	7 34.36	+36 8.4	1.946	2.896	6.1	20.6
2 1	7 24.26	+35 31.0	1.971	2.883	9.0	20.8
2 11	7 16.21	+34 39.1	2.022	2.871	12.0	20.9
2 21	7 10.91	+33 37.2	2.096	2.858	14.8	21.1

332640 2008 UD_{83} 1 14.7 48°.68 6°.2/17.6 18

12 13	8 4.61	+ 3 10.3	1.983	2.769	14.5	20.4
12 23	7 59.65	+ 2 47.9	1.913	2.777	11.7	20.2
1 2	7 52.75	+ 2 43.4	1.866	2.785	8.8	20.1
1 12	7 44.66	+ 2 57.4	1.845	2.793	6.6	20.0
1 22	7 36.29	+ 3 28.8	1.851	2.801	6.5	20.0
2 1	7 28.62	+ 4 14.3	1.885	2.810	8.5	20.1
2 11	7 22.52	+ 5 9.4	1.945	2.818	11.3	20.3
2 21	7 18.58	+ 6 9.0	2.028	2.827	14.0	20.5

323468 2004 KA_{15} 1 14.7 119°.09 2°.0/13.9 18

12 13	8 11.17	+26 13.5	2.145	2.973	12.1	21.4
12 23	8 4.35	+26 40.9	2.083	2.989	8.8	21.2
1 2	7 55.42	+27 8.1	2.047	3.004	5.2	21.0
1 12	7 45.23	+27 30.7	2.040	3.019	2.1	20.8
1 22	7 34.84	+27 45.4	2.063	3.033	3.8	20.9
2 1	7 25.36	+27 50.8	2.117	3.047	7.3	21.2
2 11	7 17.73	+27 47.1	2.197	3.061	10.6	21.4
2 21	7 12.51	+27 35.9	2.300	3.074	13.3	21.6

432461 2010 CL_{140} 1 14.7 278°.84 2°.4/16.1 17

12 13	8 3.75	+11 15.4	2.379	3.187	11.7	21.8
12 23	7 58.92	+11 40.4	2.288	3.178	8.9	21.6
1 2	7 52.34	+12 17.2	2.223	3.169	5.8	21.4
1 12	7 44.59	+13 4.1	2.186	3.160	2.9	21.2
1 22	7 36.44	+13 58.0	2.179	3.151	3.3	21.2
2 1	7 28.77	+14 55.5	2.202	3.143	6.4	21.4
2 11	7 22.38	+15 53.0	2.254	3.134	9.6	21.6
2 21	7 17.88	+16 47.6	2.329	3.125	12.5	21.8

185281 2006 UA_{196} 1 14.7 58°.17 1°.9/14.1 18

12 13	8 10.04	+24 31.5	1.597	2.440	14.8	20.2
12 23	8 4.14	+25 3.5	1.537	2.450	10.8	20.0
1 2	7 55.55	+25 37.9	1.500	2.461	6.3	19.7
1 12	7 45.28	+26 9.1	1.490	2.471	2.2	19.5
1 22	7 34.70	+26 32.5	1.509	2.481	4.4	19.7
2 1	7 25.24	+26 45.5	1.554	2.492	8.8	19.9
2 11	7 18.10	+26 47.8	1.625	2.503	12.8	20.2
2 21	7 13.95	+26 41.2	1.717	2.514	16.2	20.5

92480 2000 LM_{9} 1 14.7 218°.96 1°.5/14.1 18

12 13	8 11.48	+22 30.2	1.747	2.582	14.1	19.9
12 23	8 5.27	+23 17.0	1.665	2.575	10.4	19.6
1 2	7 56.32	+24 9.6	1.608	2.568	6.0	19.4
1 12	7 45.49	+25 2.5	1.579	2.560	1.8	19.1
1 22	7 34.03	+25 49.7	1.579	2.552	4.2	19.2
2 1	7 23.36	+26 27.0	1.607	2.543	8.7	19.5
2 11	7 14.79	+26 52.7	1.662	2.534	12.9	19.7
2 21	7 9.16	+27 7.5	1.738	2.524	16.5	19.9

466854 2015 BK_{307} 1 14.7 234°.88 2°.4/13.4 18

12 13	8 6.78	+26 6.2	2.294	3.127	11.3	21.2
12 23	8 1.31	+27 1.7	2.215	3.123	8.2	21.0
1 2	7 53.79	+27 59.1	2.163	3.120	5.0	20.8
1 12	7 44.91	+28 53.3	2.140	3.117	2.5	20.6
1 22	7 35.61	+29 39.9	2.147	3.114	4.1	20.7
2 1	7 26.92	+30 15.7	2.183	3.110	7.4	20.9
2 11	7 19.79	+30 39.7	2.247	3.107	10.5	21.1
2 21	7 14.88	+30 52.6	2.333	3.103	13.2	21.3

139772 2001 QZ_{294} 1 14.7 194°.58 3°.8/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 9.69	+34 36.3	2.863	3.680	9.7	20.3
12 23	8 3.08	+35 6.5	2.784	3.678	7.4	20.2
1 2	7 54.65	+35 31.4	2.733	3.676	5.1	20.0
1 12	7 45.09	+35 47.1	2.712	3.672	3.8	19.9
1 22	7 35.26	+35 50.9	2.720	3.669	4.8	20.0
2 1	7 26.09	+35 41.8	2.759	3.665	7.0	20.1
2 11	7 18.39	+35 21.1	2.826	3.661	9.4	20.3
2 21	7 12.72	+34 50.9	2.916	3.656	11.5	20.4

95304 2002 CQ_{98} 1 14.7 86°.74 0°.5/14.5 18

12 13	8 8.27	+21 18.0	1.926	2.760	13.1	19.8
12 23	8 2.47	+21 42.9	1.859	2.768	9.5	19.6
1 2	7 54.45	+22 12.2	1.818	2.777	5.5	19.4
1 12	7 45.07	+22 42.4	1.804	2.786	1.2	19.1
1 22	7 35.38	+23 9.5	1.819	2.795	3.3	19.3
2 1	7 26.55	+23 31.0	1.864	2.803	7.4	19.5
2 11	7 19.58	+23 45.7	1.934	2.812	11.1	19.8
2 21	7 15.08	+23 53.6	2.028	2.820	14.2	20.0

132569 2002 JU_{102} 1 14.7 169°.71 4°.5/12.2 18

12 13	8 9.70	+32 43.8	2.309	3.138	11.3	19.9
12 23	8 3.54	+33 54.8	2.239	3.140	8.6	19.7
1 2	7 55.12	+35 2.5	2.196	3.141	5.9	19.6
1 12	7 45.23	+36 0.8	2.182	3.143	4.5	19.5
1 22	7 34.90	+36 44.6	2.197	3.144	5.8	19.6
2 1	7 25.27	+37 11.3	2.241	3.145	8.4	19.7
2 11	7 17.40	+37 21.4	2.311	3.146	11.2	19.9
2 21	7 11.97	+37 17.4	2.404	3.146	13.6	20.1

450299 2004 PN_{110} 1 14.7 112°.95 0°.5/14.6 15

12 13	8 13.70	+20 55.4	1.773	2.601	14.3	22.5
12 23	8 6.43	+21 25.0	1.717	2.623	10.4	22.3
1 2	7 56.71	+21 59.3	1.685	2.644	5.9	22.1
1 12	7 45.55	+22 33.9	1.682	2.665	1.3	21.8
1 22	7 34.19	+23 4.3	1.709	2.684	3.5	22.0
2 1	7 23.95	+23 27.8	1.765	2.703	7.9	22.4
2 11	7 15.89	+23 43.5	1.848	2.722	11.7	22.6
2 21	7 10.62	+23 51.9	1.953	2.739	14.9	22.9

286593 2002 CL_{273} 1 14.7 21°.40 0°.6/14.9 18

12 13	8 8.36	+18 28.7	1.265	2.117	17.4	20.5
12 23	8 3.43	+18 46.1	1.204	2.121	12.8	20.2
1 2	7 55.37	+19 14.1	1.164	2.125	7.5	19.9
1 12	7 45.31	+19 48.2	1.148	2.131	1.8	19.6
1 22	7 34.78	+20 23.1	1.159	2.137	4.2	19.7
2 1	7 25.47	+20 54.2	1.195	2.143	9.7	20.1
2 11	7 18.79	+21 19.0	1.255	2.150	14.5	20.4
2 21	7 15.52	+21 36.3	1.335	2.158	18.6	20.7

169309 2001 TF_{81} 1 14.7 329°.06 7°.2/12.1 18

12 13	8 12.86	+41 47.3	2.102	2.920	12.7	19.2
12 23	8 6.16	+42 29.6	2.032	2.914	10.3	19.0
1 2	7 56.73	+43 0.1	1.985	2.908	8.1	18.9
1 12	7 45.59	+43 11.9	1.965	2.902	7.2	18.8
1 22	7 34.08	+43 1.1	1.973	2.897	8.1	18.9
2 1	7 23.67	+42 27.3	2.007	2.892	10.3	19.0
2 11	7 15.57	+41 34.2	2.066	2.887	12.9	19.1
2 21	7 10.48	+40 27.2	2.146	2.883	15.2	19.3

161176 2002 TT_{75} 1 14.7 114°.22 2°.7/13.6 18

12 13	8 9.55	+29 31.1	2.441	3.267	10.9	20.3
12 23	8 3.04	+29 55.7	2.377	3.281	8.0	20.1
1 2	7 54.63	+30 17.5	2.340	3.293	4.9	20.0
1 12	7 45.10	+30 32.7	2.332	3.306	2.8	19.8
1 22	7 35.39	+30 38.6	2.354	3.318	4.0	19.9
2 1	7 26.49	+30 34.3	2.406	3.330	6.9	20.1
2 11	7 19.23	+30 20.5	2.486	3.342	9.8	20.3
2 21	7 14.16	+29 59.1	2.589	3.353	12.2	20.5

421413 2013 WY_{14} 1 14.7 169°.46 2°.1/13.6 18

12 13	8 6.59	+25 33.1	2.377	3.208	11.0	20.7
12 23	8 1.07	+26 22.5	2.301	3.209	8.0	20.5
1 2	7 53.61	+27 13.7	2.252	3.210	4.8	20.3
1 12	7 44.91	+28 2.1	2.232	3.211	2.1	20.1
1 22	7 35.84	+28 43.7	2.243	3.211	3.7	20.2
2 1	7 27.38	+29 15.7	2.283	3.212	7.0	20.4
2 11	7 20.44	+29 37.1	2.351	3.212	10.0	20.6
2 21	7 15.61	+29 48.7	2.442	3.212	12.7	20.8

347598 2001 QM_{211} 1 14.7 134°.07 2°.1/14.1 18

12 13	8 14.74	+25 41.4	1.631	2.466	14.9	21.1
12 23	8 7.56	+26 2.7	1.567	2.476	10.9	20.8
1 2	7 57.53	+26 24.2	1.527	2.485	6.4	20.6
1 12	7 45.76	+26 40.7	1.514	2.494	2.4	20.3
1 22	7 33.68	+26 48.0	1.530	2.502	4.5	20.5
2 1	7 22.80	+26 44.6	1.575	2.510	8.9	20.8
2 11	7 14.39	+26 31.3	1.645	2.517	13.0	21.0
2 21	7 9.12	+26 10.7	1.737	2.524	16.4	21.3

285682 2000 SH_{145} 1 14.7 70°.02 0°.6/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 13.75	+18 54.6	1.416	2.253	16.7	20.9
12 23	8 6.72	+19 7.8	1.373	2.283	12.1	20.7
1 2	7 56.93	+19 28.5	1.353	2.312	7.0	20.5
1 12	7 45.61	+19 52.6	1.360	2.342	1.7	20.2
1 22	7 34.26	+20 15.6	1.394	2.371	3.8	20.5
2 1	7 24.36	+20 34.8	1.456	2.399	8.7	20.8
2 11	7 17.06	+20 48.7	1.543	2.428	13.0	21.1
2 21	7 12.90	+20 57.1	1.651	2.456	16.4	21.4

325150 2008 EE_{167} 1 14.7 199°.80 2°.6/16.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.82	+10 47.2	2.284	3.087	12.3	21.1
12 23	8 1.21	+11 12.4	2.198	3.084	9.4	20.9
1 2	7 53.70	+11 50.0	2.136	3.081	6.1	20.7
1 12	7 44.95	+12 38.1	2.103	3.077	3.1	20.5
1 22	7 35.79	+13 33.6	2.100	3.072	3.5	20.5
2 1	7 27.17	+14 32.7	2.128	3.067	6.7	20.7
2 11	7 19.96	+15 31.7	2.184	3.062	10.0	20.9
2 21	7 14.78	+16 27.4	2.265	3.056	13.0	21.1

271234 2003 UM_{17} 1 14.7 129°.55 1°.9/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.72	+16 4.8	2.215	3.032	12.1	20.2
12 23	8 1.79	+15 47.5	2.139	3.036	9.1	20.0
1 2	7 53.97	+15 36.3	2.088	3.040	5.6	19.8
1 12	7 44.99	+15 30.4	2.066	3.044	2.3	19.6
1 22	7 35.76	+15 28.4	2.074	3.048	3.2	19.6
2 1	7 27.23	+15 29.1	2.111	3.051	6.7	19.8
2 11	7 20.26	+15 31.1	2.177	3.055	10.0	20.1
2 21	7 15.41	+15 33.4	2.266	3.058	12.9	20.3

26097 1988 VJ_{1} 1 14.7 96°.21 3°.0/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.67	+13 36.6	1.524	2.346	16.5	17.9
12 23	8 6.57	+13 28.0	1.472	2.370	12.3	17.7
1 2	7 56.85	+13 31.5	1.442	2.393	7.7	17.4
1 12	7 45.62	+13 45.3	1.439	2.415	3.6	17.2
1 22	7 34.25	+14 6.4	1.464	2.437	4.4	17.4
2 1	7 24.13	+14 31.4	1.517	2.458	8.6	17.6
2 11	7 16.40	+14 57.3	1.596	2.479	12.7	17.9
2 21	7 11.63	+15 21.7	1.697	2.499	16.1	18.2

114460 2003 AM_{31} 1 14.7 110°.75 1°.5/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.82	+24 48.6	2.115	2.940	12.4	19.8
12 23	8 5.49	+25 9.8	2.058	2.963	9.0	19.6
1 2	7 56.07	+25 31.5	2.028	2.986	5.2	19.4
1 12	7 45.45	+25 49.5	2.027	3.007	1.7	19.2
1 22	7 34.70	+26 1.0	2.056	3.028	3.5	19.4
2 1	7 24.94	+26 4.5	2.116	3.049	7.1	19.7
2 11	7 17.09	+26 0.4	2.203	3.069	10.4	19.9
2 21	7 11.68	+25 50.1	2.313	3.088	13.2	20.1

348442 2005 QY_{88} 1 14.7 69°.11 1°.0/15.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.46	+17 58.6	1.270	2.110	18.1	21.0
12 23	8 8.12	+18 11.2	1.232	2.142	13.2	20.8
1 2	7 57.78	+18 33.3	1.216	2.175	7.7	20.6
1 12	7 45.81	+19 0.1	1.225	2.207	2.0	20.3
1 22	7 33.88	+19 26.9	1.261	2.238	4.1	20.5
2 1	7 23.61	+19 50.1	1.325	2.270	9.3	20.9
2 11	7 16.21	+20 8.1	1.413	2.300	13.7	21.2
2 21	7 12.21	+20 20.5	1.522	2.331	17.4	21.6

491885 2013 BR_{62} 1 14.7 332°.73 0°.2/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.98	+18 44.0	1.251	2.105	17.3	21.1
12 23	8 2.71	+19 12.2	1.176	2.095	12.9	20.8
1 2	7 55.17	+19 52.5	1.123	2.085	7.6	20.5
1 12	7 45.36	+20 40.1	1.094	2.076	1.7	20.1
1 22	7 34.77	+21 28.5	1.091	2.068	4.4	20.3
2 1	7 25.19	+22 12.0	1.112	2.061	10.2	20.6
2 11	7 18.22	+22 46.9	1.157	2.054	15.4	20.8
2 21	7 14.81	+23 11.9	1.221	2.048	19.7	21.1

363228 2001 WR_{54} 1 14.7 114°.12 0°.9/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.68	+22 46.5	2.105	2.931	12.4	21.7
12 23	8 4.01	+23 11.6	2.043	2.949	9.0	21.5
1 2	7 55.27	+23 39.2	2.008	2.967	5.2	21.3
1 12	7 45.29	+24 5.5	2.002	2.984	1.3	21.1
1 22	7 35.11	+24 27.1	2.026	3.000	3.3	21.2
2 1	7 25.82	+24 42.0	2.080	3.016	7.0	21.5
2 11	7 18.34	+24 49.8	2.161	3.031	10.4	21.7
2 21	7 13.24	+24 51.0	2.266	3.046	13.3	22.0

409929 2006 UJ_{29} 1 14.7 112°.71 8°.4/18.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.14	− 2 41.5	2.006	2.756	15.6	22.0
12 23	8 2.15	− 3 24.4	1.942	2.772	13.1	21.8
1 2	7 54.20	− 3 45.9	1.901	2.788	10.6	21.7
1 12	7 45.06	− 3 44.0	1.885	2.803	8.8	21.6
1 22	7 35.69	− 3 18.9	1.895	2.818	8.5	21.6
2 1	7 27.09	− 2 33.7	1.933	2.832	9.9	21.7
2 11	7 20.14	− 1 33.7	1.996	2.846	12.1	21.9
2 21	7 15.41	− 0 24.9	2.082	2.860	14.4	22.1

274467 2008 SJ_{79} 1 14.7 221°.73 2°.7/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.08	+12 41.4	2.091	2.906	12.9	20.9
12 23	8 0.76	+12 37.7	2.012	2.905	9.8	20.7
1 2	7 53.47	+12 44.2	1.957	2.905	6.3	20.5
1 12	7 44.92	+12 59.9	1.929	2.904	3.2	20.3
1 22	7 36.03	+13 22.7	1.931	2.903	3.7	20.3
2 1	7 27.78	+13 50.0	1.962	2.903	7.1	20.5
2 11	7 21.10	+14 19.2	2.020	2.902	10.5	20.7
2 21	7 16.57	+14 47.9	2.102	2.901	13.5	20.9

143718 2003 UX_{167} 1 14.7 226°.99 1°.3/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.73	+18 32.0	1.458	2.293	16.4	20.2
12 23	8 7.22	+18 20.8	1.379	2.287	12.2	19.9
1 2	7 57.60	+18 16.7	1.322	2.280	7.3	19.6
1 12	7 45.87	+18 17.2	1.292	2.273	2.2	19.3
1 22	7 33.52	+18 19.4	1.289	2.265	4.1	19.4
2 1	7 22.19	+18 21.3	1.314	2.257	9.4	19.7
2 11	7 13.36	+18 21.6	1.364	2.249	14.3	19.9
2 21	7 7.88	+18 20.1	1.434	2.240	18.4	20.2

9596 1991 RC_{22} 1 14.7 176°.58 2°.2/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.87	+25 8.0	1.836	2.666	13.7	18.6
12 23	8 6.85	+25 48.2	1.762	2.669	10.1	18.4
1 2	7 57.17	+26 30.4	1.713	2.671	5.9	18.2
1 12	7 45.76	+27 8.8	1.693	2.672	2.3	17.9
1 22	7 33.89	+27 38.5	1.702	2.673	4.4	18.1
2 1	7 22.94	+27 56.6	1.741	2.673	8.5	18.3
2 11	7 14.16	+28 2.9	1.806	2.672	12.4	18.6
2 21	7 8.27	+27 59.4	1.893	2.670	15.6	18.8

48049 2001 DB_{90} 1 14.8 226°.35 6°.2/17.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.89	+ 4 22.0	1.942	2.729	14.8	19.8
12 23	8 2.27	+ 3 54.4	1.855	2.721	11.9	19.6
1 2	7 54.45	+ 3 43.3	1.791	2.713	8.9	19.4
1 12	7 45.17	+ 3 50.3	1.754	2.705	6.6	19.3
1 22	7 35.40	+ 4 14.6	1.744	2.696	6.5	19.3
2 1	7 26.24	+ 4 53.8	1.762	2.687	8.9	19.4
2 11	7 18.73	+ 5 43.5	1.806	2.678	12.1	19.6
2 21	7 13.55	+ 6 38.7	1.874	2.668	15.1	19.7

492131 2013 MX_{1} 1 14.8 130°.36 1°.1/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.18	+14 55.4	1.960	2.780	13.4	21.3
12 23	8 2.42	+15 41.8	1.888	2.788	9.9	21.1
1 2	7 54.49	+16 39.5	1.841	2.796	5.9	20.8
1 12	7 45.16	+17 44.5	1.823	2.803	1.9	20.6
1 22	7 35.45	+18 52.0	1.835	2.811	3.1	20.7
2 1	7 26.48	+19 57.0	1.876	2.818	7.2	20.9
2 11	7 19.23	+20 56.0	1.945	2.824	11.0	21.2
2 21	7 14.38	+21 46.7	2.037	2.831	14.1	21.4

144799 2004 HX_{54} 1 14.8 277°.49 7°.2/17.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.73	+ 3 14.1	1.845	2.632	15.4	19.7
12 23	8 1.54	+ 2 29.4	1.757	2.620	12.6	19.5
1 2	7 54.09	+ 2 1.9	1.691	2.608	9.7	19.3
1 12	7 45.10	+ 1 54.0	1.650	2.595	7.5	19.1
1 22	7 35.57	+ 2 6.3	1.636	2.583	7.5	19.1
2 1	7 26.64	+ 2 36.8	1.650	2.571	9.8	19.2
2 11	7 19.40	+ 3 21.2	1.688	2.558	12.9	19.3
2 21	7 14.57	+ 4 14.2	1.748	2.546	15.9	19.5

399224 2014 GP_{42} 1 14.8 224°.77 4°.4/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.13	+29 21.8	1.524	2.367	15.4	21.5
12 23	8 7.68	+30 15.0	1.451	2.362	11.5	21.3
1 2	7 57.95	+31 7.3	1.401	2.357	7.3	21.0
1 12	7 45.97	+31 50.4	1.378	2.352	4.4	20.8
1 22	7 33.33	+32 17.6	1.382	2.346	6.4	20.9
2 1	7 21.80	+32 25.6	1.413	2.340	10.6	21.2
2 11	7 12.93	+32 15.7	1.469	2.333	14.7	21.4
2 21	7 7.60	+31 52.1	1.544	2.327	18.3	21.6

475384 2006 GN_{19} 1 14.8 204°.73 0°.6/14.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.78	+22 56.0	3.735	4.556	7.6	22.1
12 23	7 56.99	+23 17.1	3.649	4.552	5.5	21.9
1 2	7 51.05	+23 39.8	3.591	4.549	3.2	21.8
1 12	7 44.39	+24 2.1	3.563	4.545	0.8	21.6
1 22	7 37.52	+24 22.4	3.567	4.541	2.0	21.7
2 1	7 31.01	+24 39.2	3.602	4.536	4.4	21.9
2 11	7 25.36	+24 51.8	3.666	4.532	6.7	22.0
2 21	7 20.98	+25 0.0	3.757	4.527	8.6	22.1

276809 2004 PE_{28} 1 14.8 64°.71 2°.7/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.78	+14 8.6	1.770	2.591	14.6	20.2
12 23	8 3.44	+13 53.1	1.719	2.617	10.9	20.0
1 2	7 54.94	+13 47.6	1.692	2.643	6.8	19.9
1 12	7 45.23	+13 50.7	1.693	2.669	3.2	19.7
1 22	7 35.44	+14 0.3	1.722	2.695	3.9	19.8
2 1	7 26.70	+14 14.1	1.780	2.721	7.6	20.1
2 11	7 19.95	+14 29.8	1.864	2.747	11.2	20.3
2 21	7 15.70	+14 45.4	1.971	2.772	14.2	20.6

210217 2007 RZ_{32} 1 14.8 140.°18 0.°6/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 11.77	+20 49.0	1.955	2.781	13.2	21.1
12 23	8 5.03	+21 29.4	1.889	2.794	9.6	20.9
1 2	7 55.99	+22 15.1	1.847	2.806	5.5	20.7
1 12	7 45.50	+23 1.5	1.835	2.817	1.3	20.4
1 22	7 34.68	+23 44.0	1.853	2.828	3.4	20.6
2 1	7 24.74	+24 19.2	1.901	2.838	7.5	20.9
2 11	7 16.72	+24 45.7	1.976	2.847	11.2	21.1
2 21	7 11.26	+25 3.6	2.074	2.855	14.3	21.4

358287 2006 UE_{61} 1 14.8 151.°16 1.°9/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.82	+26 11.6	2.370	3.192	11.3	22.1
12 23	8 4.77	+26 43.1	2.300	3.203	8.2	21.9
1 2	7 55.71	+27 14.5	2.258	3.214	4.9	21.7
1 12	7 45.43	+27 41.6	2.245	3.224	2.1	21.5
1 22	7 34.89	+28 1.2	2.263	3.233	3.6	21.7
2 1	7 25.13	+28 11.4	2.312	3.241	6.9	21.9
2 11	7 17.05	+28 12.6	2.389	3.248	10.0	22.1
2 21	7 11.23	+28 5.8	2.490	3.255	12.6	22.3

457061 2008 EM_{5} 1 14.8 251.°17 7.°0/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.29	+39 4.9	1.924	2.747	13.5	21.6
12 23	8 8.24	+39 58.6	1.847	2.736	10.7	21.4
1 2	7 58.14	+40 42.6	1.795	2.726	8.2	21.2
1 12	7 46.01	+41 8.8	1.769	2.716	7.0	21.1
1 22	7 33.31	+41 11.8	1.771	2.705	8.2	21.2
2 1	7 21.68	+40 50.3	1.800	2.694	10.8	21.3
2 11	7 12.53	+40 7.8	1.854	2.683	13.8	21.5
2 21	7 6.68	+39 9.9	1.928	2.671	16.5	21.6

495924 2005 WQ_{185} 1 14.8 31.°55 6.°1/16.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.17	+ 8 36.5	1.345	2.172	18.0	19.9
12 23	8 2.06	+ 7 48.3	1.297	2.191	14.0	19.7
1 2	7 54.35	+ 7 18.4	1.270	2.210	9.8	19.5
1 12	7 45.13	+ 7 7.9	1.267	2.231	6.6	19.4
1 22	7 35.75	+ 7 15.7	1.290	2.253	6.7	19.4
2 1	7 27.60	+ 7 38.4	1.338	2.276	9.9	19.7
2 11	7 21.76	+ 8 10.9	1.410	2.299	13.6	19.9
2 21	7 18.83	+ 8 48.0	1.502	2.323	16.9	20.2

393696 2004 TJ_{40} 1 14.8 137.°27 1.°5/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.91	+16 3.0	1.861	2.680	14.1	23.0
12 23	8 5.12	+16 14.1	1.795	2.694	10.4	22.8
1 2	7 56.03	+16 33.9	1.752	2.706	6.3	22.6
1 12	7 45.51	+16 59.7	1.738	2.718	2.2	22.3
1 22	7 34.71	+17 28.2	1.754	2.729	3.4	22.4
2 1	7 24.83	+17 56.4	1.799	2.740	7.6	22.7
2 11	7 16.90	+18 22.0	1.871	2.749	11.4	23.0
2 21	7 11.56	+18 43.8	1.967	2.758	14.6	23.2

419138 2009 SH_{269} 1 14.8 100.°38 2.°8/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.15	+12 47.5	1.942	2.759	13.6	21.5
12 23	8 1.63	+12 46.5	1.870	2.765	10.3	21.3
1 2	7 54.01	+12 56.4	1.821	2.770	6.6	21.1
1 12	7 45.07	+13 15.9	1.800	2.776	3.3	20.9
1 22	7 35.82	+13 42.6	1.808	2.781	3.8	21.0
2 1	7 27.32	+14 13.5	1.845	2.786	7.4	21.2
2 11	7 20.53	+14 45.7	1.909	2.791	11.0	21.4
2 21	7 16.07	+15 16.6	1.996	2.797	14.1	21.6

25254 1998 UM_{32} 1 14.8 104.°71 3.°8/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.15	+30 45.8	2.232	3.063	11.6	18.7
12 23	8 3.08	+31 44.7	2.170	3.074	8.6	18.5
1 2	7 54.85	+32 41.1	2.133	3.084	5.6	18.3
1 12	7 45.26	+33 29.3	2.126	3.094	3.8	18.2
1 22	7 35.35	+34 4.8	2.148	3.104	5.2	18.3
2 1	7 26.24	+34 25.4	2.199	3.114	8.0	18.5
2 11	7 18.91	+34 31.5	2.276	3.123	10.9	18.7
2 21	7 13.98	+34 25.5	2.376	3.133	13.4	18.9

253236 2003 AU_{6} 1 14.8 348.°95 1.°3/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.89	+16 35.7	1.438	2.283	16.0	20.0
12 23	8 1.47	+16 54.9	1.365	2.278	11.9	19.7
1 2	7 54.25	+17 26.2	1.314	2.273	7.2	19.4
1 12	7 45.17	+18 6.1	1.288	2.269	2.2	19.1
1 22	7 35.53	+18 50.0	1.289	2.266	3.9	19.2
2 1	7 26.79	+19 33.0	1.316	2.263	9.0	19.5
2 11	7 20.30	+20 11.3	1.368	2.262	13.6	19.7
2 21	7 16.85	+20 42.8	1.440	2.261	17.6	20.0

258518 2002 AF_{176} 1 14.8 27.°77 0.°4/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.34	+20 8.8	1.754	2.592	13.9	20.1
12 23	8 2.09	+20 42.4	1.684	2.595	10.2	19.9
1 2	7 54.41	+21 23.0	1.637	2.598	5.9	19.6
1 12	7 45.19	+22 6.1	1.618	2.601	1.3	19.3
1 22	7 35.55	+22 47.2	1.628	2.604	3.5	19.5
2 1	7 26.75	+23 22.5	1.666	2.607	8.0	19.8
2 11	7 19.92	+23 50.0	1.729	2.611	12.0	20.0
2 21	7 15.74	+24 9.0	1.815	2.615	15.3	20.2

369807 2012 HR_{42} 1 14.8 294.°10 2.°1/15.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.64	+14 14.0	1.804	2.630	14.1	21.0
12 23	8 1.56	+14 26.4	1.721	2.622	10.6	20.7
1 2	7 54.14	+14 50.3	1.661	2.615	6.6	20.5
1 12	7 45.15	+15 23.7	1.629	2.607	2.7	20.2
1 22	7 35.65	+16 3.3	1.625	2.600	3.7	20.3
2 1	7 26.84	+16 45.2	1.649	2.593	7.9	20.5
2 11	7 19.83	+17 26.0	1.700	2.586	11.9	20.7
2 21	7 15.34	+18 3.0	1.773	2.579	15.4	20.9

317596 2002 XK_{39} 1 14.8 68.°12 4.°0/16.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.63	+10 1.2	2.278	3.079	12.4	20.1
12 23	8 0.97	+ 9 21.6	2.199	3.081	9.6	19.9
1 2	7 53.53	+ 8 51.6	2.146	3.083	6.7	19.7
1 12	7 44.98	+ 8 31.7	2.120	3.085	4.3	19.6
1 22	7 36.16	+ 8 21.9	2.124	3.087	4.6	19.6
2 1	7 27.98	+ 8 21.1	2.158	3.089	7.2	19.7
2 11	7 21.24	+ 8 27.5	2.218	3.091	10.1	19.9
2 21	7 16.49	+ 8 38.6	2.303	3.093	12.8	20.1

90636 3250 $T\text{-}_{2}$ 1 14.8 153.°83 3.°2/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.91	+29 35.2	2.223	3.051	11.7	20.5
12 23	8 4.33	+30 14.8	2.153	3.057	8.7	20.3
1 2	7 55.57	+30 52.1	2.110	3.063	5.4	20.1
1 12	7 45.43	+31 22.3	2.095	3.068	3.2	20.0
1 22	7 34.98	+31 41.4	2.111	3.073	4.6	20.1
2 1	7 25.35	+31 47.8	2.155	3.077	7.7	20.3
2 11	7 17.53	+31 42.1	2.227	3.081	10.8	20.5
2 21	7 12.15	+31 26.5	2.322	3.085	13.5	20.7

424122 2007 EP_{144} 1 14.8 168.°03 3.°0/16.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.45	+10 26.6	2.241	3.045	12.5	21.9
12 23	8 0.93	+10 36.3	2.162	3.047	9.6	21.7
1 2	7 53.55	+10 58.0	2.107	3.050	6.3	21.5
1 12	7 44.99	+11 30.3	2.080	3.052	3.5	21.3
1 22	7 36.11	+12 10.6	2.084	3.053	3.8	21.4
2 1	7 27.82	+12 55.8	2.117	3.055	6.8	21.6
2 11	7 20.98	+13 42.6	2.178	3.056	10.0	21.8
2 21	7 16.17	+14 28.0	2.263	3.056	12.9	22.0

427802 2005 GY_{101} 1 14.8 252.°05 3.°3/12.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.82	+31 40.3	2.784	3.606	9.8	21.9
12 23	8 2.68	+32 21.5	2.687	3.586	7.4	21.8
1 2	7 54.62	+33 0.4	2.617	3.566	4.9	21.6
1 12	7 45.25	+33 32.5	2.577	3.545	3.4	21.4
1 22	7 35.40	+33 54.3	2.568	3.523	4.5	21.5
2 1	7 26.02	+34 4.0	2.588	3.501	7.1	21.6
2 11	7 18.02	+34 1.5	2.637	3.478	9.8	21.7
2 21	7 12.03	+33 48.6	2.708	3.455	12.2	21.9

224477 2005 VU_{74} 1 14.8 345.°38 1.°7/14.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.48	+23 12.0	1.735	2.578	13.8	20.2
12 23	8 2.34	+23 58.3	1.662	2.575	10.1	20.0
1 2	7 54.64	+24 49.4	1.612	2.573	5.9	19.8
1 12	7 45.27	+25 40.1	1.590	2.571	2.0	19.5
1 22	7 35.39	+26 24.8	1.596	2.569	4.2	19.6
2 1	7 26.34	+26 59.6	1.630	2.567	8.5	19.9
2 11	7 19.31	+27 22.9	1.689	2.566	12.5	20.1
2 21	7 15.05	+27 35.2	1.770	2.565	15.9	20.3

381228 2007 RY_{310} 1 14.8 79.°51 6.°7/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.17	+40 35.1	2.271	3.086	12.0	20.4
12 23	8 6.10	+41 47.2	2.229	3.110	9.5	20.2
1 2	7 56.60	+42 48.5	2.212	3.133	7.5	20.1
1 12	7 45.65	+43 32.3	2.223	3.156	6.7	20.1
1 22	7 34.49	+43 54.6	2.262	3.179	7.6	20.2
2 1	7 24.41	+43 54.9	2.329	3.202	9.6	20.4
2 11	7 16.47	+43 36.0	2.420	3.225	11.7	20.6
2 21	7 11.26	+43 2.4	2.532	3.247	13.7	20.8

83140 2001 QQ_{262} 1 14.8 125.°02 6.°8/18.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.80	+ 0 0.3	2.092	2.856	14.6	19.9
12 23	8 1.19	− 0 12.7	2.022	2.867	12.0	19.7
1 2	7 53.69	− 0 6.0	1.974	2.878	9.3	19.6
1 12	7 45.03	+ 0 21.1	1.952	2.889	7.2	19.5
1 22	7 36.08	+ 1 7.2	1.958	2.899	7.0	19.5
2 1	7 27.82	+ 2 8.7	1.992	2.909	8.6	19.6
2 11	7 21.10	+ 3 20.1	2.053	2.918	11.1	19.8
2 21	7 16.49	+ 4 35.9	2.138	2.927	13.7	20.0

451430 2011 SK_{2} 1 14.8 41.°65 0.°0/14.8 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.05	+20 42.4	1.168	2.024	18.2	21.5
12 23	8 5.34	+20 50.4	1.124	2.043	13.3	21.3
1 2	7 56.41	+21 5.3	1.101	2.064	7.7	21.0
1 12	7 45.62	+21 22.5	1.102	2.085	1.7	20.7
1 22	7 34.70	+21 37.4	1.130	2.107	4.3	21.0
2 1	7 25.37	+21 47.0	1.182	2.129	9.8	21.3
2 11	7 18.96	+21 50.6	1.258	2.152	14.5	21.7
2 21	7 16.05	+21 48.5	1.353	2.176	18.4	22.0

109309 2001 QM_{133} 1 14.8 126°.66 4°.2/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 4.80	+ 6 52.0	2.515	3.303	11.8	20.3
12 23	7 59.50	+ 6 38.6	2.440	3.311	9.2	20.2
1 2	7 52.62	+ 6 37.2	2.390	3.318	6.6	20.0
1 12	7 44.79	+ 6 47.6	2.367	3.326	4.5	19.9
1 22	7 36.72	+ 7 8.8	2.375	3.333	4.5	19.9
2 1	7 29.21	+ 7 38.5	2.411	3.340	6.6	20.0
2 11	7 22.96	+ 8 13.9	2.476	3.347	9.2	20.2
2 21	7 18.48	+ 8 52.1	2.565	3.354	11.7	20.4

432477 2010 DB_{56} 1 14.8 299°.55 3°.8/12.7 15

12 13	8 6.91	+29 48.4	2.196	3.032	11.6	21.4
12 23	8 1.71	+30 52.2	2.111	3.018	8.6	21.2
1 2	7 54.23	+31 55.9	2.051	3.004	5.6	21.0
1 12	7 45.19	+32 53.6	2.020	2.990	3.8	20.9
1 22	7 35.59	+33 40.1	2.019	2.977	5.3	20.9
2 1	7 26.56	+34 12.0	2.046	2.963	8.4	21.1
2 11	7 19.21	+34 28.7	2.099	2.950	11.5	21.3
2 21	7 14.27	+34 31.7	2.174	2.936	14.3	21.4

450904 2008 CT_{108} 1 14.8 17°.34 2°.2/13.9 18

12 13	8 5.30	+22 17.9	1.093	1.962	18.2	19.9
12 23	8 1.60	+23 19.0	1.044	1.970	13.2	19.6
1 2	7 54.51	+24 28.6	1.015	1.980	7.7	19.4
1 12	7 45.26	+25 37.9	1.010	1.992	2.5	19.1
1 22	7 35.57	+26 38.1	1.030	2.005	5.4	19.3
2 1	7 27.30	+27 23.1	1.073	2.019	10.8	19.7
2 11	7 21.95	+27 51.0	1.139	2.035	15.6	20.0
2 21	7 20.23	+28 3.2	1.223	2.052	19.6	20.3

448239 2008 WK_{40} 1 14.8 69°.22 1°.7/14.2 15

12 13	8 13.69	+22 47.7	1.343	2.189	16.9	21.3
12 23	8 7.02	+23 30.7	1.299	2.213	12.2	21.1
1 2	7 57.31	+24 18.0	1.277	2.238	7.0	20.9
1 12	7 45.83	+25 2.9	1.281	2.263	2.1	20.7
1 22	7 34.20	+25 39.1	1.313	2.288	4.6	20.9
2 1	7 24.08	+26 3.3	1.372	2.312	9.5	21.2
2 11	7 16.73	+26 15.5	1.455	2.336	13.8	21.5
2 21	7 12.76	+26 17.3	1.558	2.360	17.3	21.8

53113 1999 AP_{8} 1 14.8 353°.31 0°.5/14.9 18

12 13	8 5.35	+16 23.4	1.110	1.970	18.6	17.7
12 23	8 1.76	+17 17.1	1.044	1.965	13.9	17.4
1 2	7 54.75	+18 29.5	0.998	1.961	8.2	17.0
1 12	7 45.36	+19 54.2	0.975	1.957	2.0	16.6
1 22	7 35.19	+21 21.7	0.977	1.955	4.5	16.8
2 1	7 26.14	+22 42.9	1.004	1.954	10.7	17.1
2 11	7 19.88	+23 51.2	1.053	1.954	16.1	17.4
2 21	7 17.37	+24 44.0	1.120	1.956	20.6	17.7

77351 2001 FT_{119} 1 14.8 326°.60 1°.5/14.3 18

12 13	8 8.29	+23 14.4	1.393	2.245	16.0	19.5
12 23	8 3.51	+23 38.7	1.315	2.233	11.8	19.3
1 2	7 55.60	+24 8.2	1.260	2.222	6.9	18.9
1 12	7 45.53	+24 37.3	1.229	2.211	2.0	18.6
1 22	7 34.76	+25 0.8	1.226	2.201	4.6	18.8
2 1	7 24.97	+25 14.9	1.248	2.191	9.8	19.0
2 11	7 17.67	+25 18.7	1.294	2.182	14.7	19.3
2 21	7 13.76	+25 13.2	1.359	2.174	18.7	19.5

214515 2006 DX_{194} 1 14.8 88°.09 0°.1/14.8 18

12 13	8 8.02	+20 8.7	2.018	2.847	12.7	20.9
12 23	8 2.23	+20 22.8	1.950	2.856	9.3	20.7
1 2	7 54.35	+20 41.7	1.907	2.865	5.4	20.5
1 12	7 45.19	+21 2.5	1.892	2.874	1.2	20.2
1 22	7 35.76	+21 22.2	1.906	2.883	3.0	20.4
2 1	7 27.13	+21 38.3	1.951	2.891	7.1	20.7
2 11	7 20.26	+21 49.9	2.021	2.900	10.6	20.9
2 21	7 15.73	+21 56.5	2.115	2.909	13.7	21.1

151203 2001 YV_{26} 1 14.8 116°.02 3°.3/13.4 18

12 13	8 10.54	+28 39.6	1.916	2.752	13.0	19.8
12 23	8 4.36	+29 25.8	1.850	2.758	9.6	19.6
1 2	7 55.72	+30 10.9	1.809	2.764	6.0	19.4
1 12	7 45.51	+30 49.0	1.795	2.770	3.4	19.2
1 22	7 34.93	+31 15.3	1.811	2.775	5.0	19.3
2 1	7 25.29	+31 27.5	1.855	2.780	8.5	19.5
2 11	7 17.68	+31 26.3	1.925	2.786	11.9	19.8
2 21	7 12.80	+31 13.9	2.016	2.791	14.9	20.0

365150 2009 DL_{71} 1 14.8 289°.39 1°.8/14.2 18

12 13	8 10.40	+24 11.1	1.549	2.393	15.1	21.2
12 23	8 4.85	+24 38.3	1.467	2.381	11.2	20.9
1 2	7 56.30	+25 9.1	1.409	2.369	6.6	20.6
1 12	7 45.69	+25 38.2	1.376	2.357	2.2	20.3
1 22	7 34.39	+26 0.2	1.372	2.346	4.5	20.4
2 1	7 24.00	+26 12.0	1.394	2.334	9.4	20.7
2 11	7 15.95	+26 12.9	1.441	2.322	14.0	20.9
2 21	7 11.12	+26 4.5	1.509	2.311	17.8	21.1

423331 2005 GM_{24} 1 14.8 47°.63 4°.9/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 10.60	+34 19.1	1.984	2.817	12.7	20.6
12 23	8 4.37	+34 59.1	1.924	2.825	9.7	20.4
1 2	7 55.67	+35 32.4	1.888	2.834	6.7	20.2
1 12	7 45.49	+35 53.4	1.880	2.843	5.0	20.2
1 22	7 35.05	+35 58.2	1.900	2.852	6.2	20.2
2 1	7 25.64	+35 45.9	1.948	2.861	9.0	20.4
2 11	7 18.36	+35 18.7	2.021	2.870	12.0	20.6
2 21	7 13.82	+34 40.3	2.116	2.879	14.6	20.8

110112 2001 SA_{136} 1 14.8 146°.68 0°.6/14.4 18

12 13	8 2.46	+23 4.4	3.594	4.415	7.8	20.9
12 23	7 57.49	+23 20.7	3.517	4.420	5.7	20.7
1 2	7 51.36	+23 38.2	3.468	4.425	3.3	20.6
1 12	7 44.53	+23 55.1	3.449	4.430	0.9	20.4
1 22	7 37.52	+24 9.9	3.461	4.435	2.1	20.5
2 1	7 30.92	+24 21.2	3.505	4.440	4.5	20.7
2 11	7 25.25	+24 28.5	3.578	4.444	6.8	20.8
2 21	7 20.91	+24 31.7	3.677	4.449	8.8	21.0

195878 2002 RC_{6} 1 14.8 56°.49 2°.3/15.8 18

12 13	8 6.66	+13 33.5	1.910	2.731	13.7	20.1
12 23	8 1.19	+13 41.8	1.854	2.752	10.2	19.9
1 2	7 53.71	+14 0.8	1.822	2.773	6.4	19.7
1 12	7 45.06	+14 28.2	1.817	2.794	2.8	19.5
1 22	7 36.24	+15 1.1	1.842	2.816	3.5	19.6
2 1	7 28.29	+15 36.2	1.895	2.838	7.1	19.9
2 11	7 22.09	+16 10.6	1.975	2.859	10.6	20.1
2 21	7 18.17	+16 42.1	2.078	2.881	13.5	20.4

191458 2003 SS_{236} 1 14.8 76°.45 0°.7/15.1 18

12 13	8 7.24	+18 16.8	2.026	2.854	12.7	20.6
12 23	8 1.66	+18 28.4	1.958	2.863	9.3	20.4
1 2	7 54.03	+18 46.4	1.914	2.872	5.5	20.1
1 12	7 45.14	+19 8.1	1.899	2.881	1.5	19.9
1 22	7 35.99	+19 30.7	1.913	2.889	3.0	20.0
2 1	7 27.62	+19 51.6	1.956	2.898	6.9	20.3
2 11	7 20.94	+20 9.2	2.026	2.907	10.5	20.5
2 21	7 16.55	+20 22.7	2.120	2.916	13.5	20.7

347475 2012 UQ_{14} 1 14.8 248°.00 2°.2/15.9 18

12 13	8 4.55	+13 10.1	2.487	3.297	11.2	21.2
12 23	7 59.47	+13 13.8	2.399	3.291	8.5	21.0
1 2	7 52.71	+13 26.2	2.336	3.284	5.4	20.8
1 12	7 44.86	+13 46.0	2.303	3.278	2.6	20.6
1 22	7 36.68	+14 11.4	2.299	3.271	3.1	20.6
2 1	7 28.99	+14 40.1	2.325	3.265	6.2	20.8
2 11	7 22.57	+15 9.7	2.379	3.258	9.3	21.0
2 21	7 17.98	+15 38.4	2.458	3.251	12.0	21.1

401412 2013 CF_{67} 1 14.8 349°.18 1°.4/15.1 17

12 13	8 6.21	+18 28.3	1.096	1.959	18.6	20.9
12 23	8 2.40	+18 19.1	1.028	1.950	13.9	20.6
1 2	7 55.11	+18 20.1	0.980	1.943	8.3	20.3
1 12	7 45.47	+18 28.7	0.955	1.936	2.4	19.9
1 22	7 35.12	+18 41.1	0.954	1.932	4.6	20.0
2 1	7 26.00	+18 53.8	0.976	1.928	10.6	20.3
2 11	7 19.74	+19 4.1	1.021	1.926	16.1	20.6
2 21	7 17.24	+19 10.7	1.083	1.926	20.7	20.9

301197 2008 YR_{169} 1 14.8 91°.30 0°.3/14.9 18

12 13	8 10.50	+17 50.9	1.579	2.413	15.4	20.7
12 23	8 4.50	+18 32.5	1.519	2.427	11.3	20.4
1 2	7 55.86	+19 24.0	1.483	2.441	6.6	20.2
1 12	7 45.57	+20 20.3	1.473	2.455	1.5	19.9
1 22	7 34.94	+21 15.6	1.492	2.469	3.6	20.1
2 1	7 25.36	+22 5.1	1.540	2.482	8.4	20.4
2 11	7 18.01	+22 46.0	1.613	2.496	12.6	20.7
2 21	7 13.58	+23 17.5	1.708	2.509	16.1	20.9

217604 2008 KY_{24} 1 14.8 118°.58 1°.9/16.3 17

12 13	8 1.24	+10 52.2	3.726	4.518	8.2	21.1
12 23	7 56.52	+11 8.4	3.653	4.533	6.2	21.0
1 2	7 50.78	+11 31.6	3.607	4.548	4.1	20.8
1 12	7 44.42	+12 0.6	3.592	4.563	2.2	20.7
1 22	7 37.93	+12 33.9	3.608	4.577	2.4	20.8
2 1	7 31.80	+13 9.9	3.655	4.591	4.3	20.9
2 11	7 26.49	+13 46.6	3.732	4.605	6.4	21.1
2 21	7 22.36	+14 22.4	3.836	4.618	8.2	21.2

2508 Alupka 1 14.8 158°.79 3°.5/16.1 18

12 13	8 10.01	+11 8.3	1.829	2.639	14.6	17.3
12 23	8 3.86	+11 6.6	1.755	2.644	11.2	17.1
1 2	7 55.41	+11 18.1	1.704	2.649	7.3	16.9
1 12	7 45.48	+11 41.4	1.681	2.654	4.0	16.7
1 22	7 35.18	+12 14.0	1.687	2.658	4.4	16.7
2 1	7 25.68	+12 52.4	1.722	2.661	8.0	17.0
2 11	7 18.04	+13 33.0	1.783	2.664	11.7	17.2
2 21	7 12.93	+14 12.7	1.867	2.666	15.0	17.4

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
88558 2001 QW_{216}			1 14.8 321°.49		3°.8/13.5 18	
	h m	° ′			°	m
12 13	8 10.34	+28 59.8	1.642	2.487	14.4	19.6
12 23	8 4.68	+29 39.8	1.569	2.481	10.7	19.3
1 2	7 56.13	+30 18.6	1.519	2.475	6.7	19.1
1 12	7 45.67	+30 49.7	1.495	2.470	3.8	18.9
1 22	7 34.67	+31 7.7	1.499	2.465	5.6	19.0
2 1	7 24.66	+31 10.1	1.530	2.460	9.6	19.2
2 11	7 16.99	+30 57.7	1.586	2.456	13.6	19.4
2 21	7 12.46	+30 33.7	1.662	2.451	17.0	19.7
151259 2002 AR_{69}			1 14.8 124°.38		2°.5/15.6 18	
12 13	8 10.55	+14 18.3	2.192	3.000	12.6	20.0
12 23	8 3.80	+13 56.4	2.124	3.015	9.4	19.9
1 2	7 55.16	+13 41.9	2.082	3.030	6.0	19.7
1 12	7 45.40	+13 34.2	2.069	3.044	2.9	19.5
1 22	7 35.46	+13 32.0	2.086	3.058	3.6	19.6
2 1	7 26.33	+13 33.9	2.134	3.071	6.8	19.8
2 11	7 18.84	+13 38.6	2.210	3.084	10.1	20.0
2 21	7 13.53	+13 44.5	2.309	3.096	12.9	20.2
520931 2014 WC_{535}			1 14.8 45°.28		0°.8/14.3 18	
12 13	8 5.72	+19 50.2	2.114	2.945	12.1	20.5
12 23	8 0.62	+20 57.0	2.045	2.954	8.8	20.3
1 2	7 53.49	+22 11.0	2.002	2.962	5.1	20.1
1 12	7 45.06	+23 27.2	1.988	2.970	1.2	19.8
1 22	7 36.27	+24 40.2	2.005	2.979	3.2	20.0
2 1	7 28.13	+25 45.3	2.051	2.988	7.0	20.3
2 11	7 21.58	+26 39.9	2.124	2.997	10.5	20.5
2 21	7 17.24	+27 23.1	2.221	3.006	13.4	20.7
10809 Majsterrojr			1 14.8 54°.20		0°.5/14.5 18	
12 13	8 6.40	+20 38.8	2.024	2.857	12.5	17.6
12 23	8 1.06	+21 16.3	1.964	2.873	9.1	17.4
1 2	7 53.69	+21 59.0	1.929	2.889	5.2	17.2
1 12	7 45.10	+22 42.8	1.923	2.905	1.2	16.9
1 22	7 36.26	+23 23.7	1.946	2.921	3.1	17.1
2 1	7 28.22	+23 58.6	1.998	2.938	7.0	17.4
2 11	7 21.90	+24 25.8	2.077	2.954	10.5	17.6
2 21	7 17.85	+24 45.1	2.179	2.971	13.4	17.8
413050 2001 QR_{227}			1 14.8 164°.99		5°.1/17.2 18	
12 13	8 7.60	+ 4 36.6	2.314	3.091	13.0	21.7
12 23	8 1.69	+ 4 22.0	2.235	3.096	10.4	21.6
1 2	7 53.99	+ 4 22.0	2.180	3.101	7.6	21.4
1 12	7 45.17	+ 4 36.8	2.153	3.105	5.5	21.3
1 22	7 36.05	+ 5 5.3	2.156	3.109	5.4	21.3
2 1	7 27.52	+ 5 44.9	2.187	3.112	7.5	21.4
2 11	7 20.40	+ 6 31.8	2.247	3.114	10.2	21.6
2 21	7 15.26	+ 7 22.3	2.330	3.116	12.8	21.8
466959 2016 AA_{179}			1 14.8 194°.08		1°.8/14.2 17	
12 13	8 12.92	+27 57.5	2.620	3.437	10.5	21.4
12 23	8 5.48	+27 55.4	2.535	3.434	7.7	21.3
1 2	7 56.14	+27 50.4	2.477	3.431	4.6	21.0
1 12	7 45.64	+27 39.8	2.449	3.428	1.9	20.9
1 22	7 34.89	+27 21.9	2.454	3.424	3.3	20.9
2 1	7 24.87	+26 56.3	2.490	3.419	6.4	21.1
2 11	7 16.42	+26 24.2	2.555	3.413	9.4	21.3
2 21	7 10.11	+25 47.5	2.644	3.407	12.0	21.5
495698 2016 CG_{12}			1 14.8 142°.83		2°.2/14.0 18	
12 13	8 12.91	+28 3.7	2.233	3.058	11.8	21.4
12 23	8 5.67	+28 13.5	2.164	3.067	8.7	21.2
1 2	7 56.30	+28 20.9	2.121	3.076	5.2	21.0
1 12	7 45.67	+28 22.2	2.107	3.085	2.4	20.8
1 22	7 34.85	+28 14.9	2.124	3.093	3.8	20.9
2 1	7 24.93	+27 58.4	2.171	3.101	7.2	21.2
2 11	7 16.86	+27 34.0	2.246	3.108	10.4	21.4
2 21	7 11.21	+27 3.7	2.344	3.115	13.2	21.6
113230 2002 RA_{123}			1 14.8 70°.90		2°.1/15.9 18	
12 13	8 5.61	+12 41.4	2.106	2.921	12.8	19.1
12 23	8 0.39	+13 9.7	2.039	2.934	9.6	18.9
1 2	7 53.28	+13 49.4	1.997	2.947	6.0	18.7
1 12	7 45.02	+14 37.9	1.984	2.961	2.6	18.5
1 22	7 36.49	+15 31.5	2.000	2.974	3.2	18.6
2 1	7 28.66	+16 26.4	2.045	2.988	6.7	18.8
2 11	7 22.37	+17 19.0	2.119	3.001	10.1	19.1
2 21	7 18.20	+18 6.8	2.216	3.014	13.0	19.3
171221 2005 JD_{113}			1 14.8 346°.63		5°.4/15.5 18	
12 13	8 7.32	+13 38.5	1.183	2.031	18.6	18.7
12 23	8 2.95	+12 23.4	1.110	2.020	14.4	18.4
1 2	7 55.33	+11 18.1	1.058	2.010	9.7	18.1
1 12	7 45.54	+10 25.7	1.029	2.002	5.8	17.8
1 22	7 35.10	+ 9 48.2	1.025	1.995	6.7	17.9
2 1	7 25.78	+ 9 25.9	1.045	1.990	11.2	18.1
2 11	7 19.09	+ 9 16.9	1.087	1.986	16.0	18.3
2 21	7 15.90	+ 9 17.5	1.148	1.983	20.2	18.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
427804 2005 GG_{113}			1 14.8 238°.64		3°.0/12.9 17	
	h m	° ′			°	m
12 13	8 7.93	+30 23.1	3.003	3.824	9.2	21.6
12 23	8 1.95	+31 14.2	2.907	3.807	6.9	21.4
1 2	7 54.20	+32 4.2	2.840	3.789	4.5	21.3
1 12	7 45.24	+32 49.0	2.802	3.771	3.0	21.1
1 22	7 35.84	+33 24.9	2.796	3.753	4.1	21.2
2 1	7 26.83	+33 49.8	2.821	3.733	6.6	21.3
2 11	7 19.03	+34 3.2	2.874	3.714	9.1	21.5
2 21	7 13.06	+34 6.1	2.951	3.693	11.3	21.6
458804 2011 ST_{207}			1 14.8 105°.23		0°.5/14.6 18	
12 13	8 12.71	+20 40.6	1.717	2.548	14.5	22.1
12 23	8 5.89	+21 11.8	1.660	2.568	10.6	21.9
1 2	7 56.57	+21 48.6	1.628	2.587	6.1	21.7
1 12	7 45.76	+22 26.0	1.623	2.606	1.3	21.4
1 22	7 34.71	+22 59.6	1.648	2.624	3.6	21.6
2 1	7 24.76	+23 26.3	1.702	2.642	8.0	21.9
2 11	7 17.00	+23 44.9	1.782	2.659	11.9	22.2
2 21	7 12.06	+23 55.9	1.885	2.675	15.2	22.5
414576 2009 SE_{357}			1 14.8 4°.37		6°.4/16.9 18	
12 13	8 4.03	+ 6 52.4	1.447	2.269	17.2	20.4
12 23	7 59.95	+ 6 18.0	1.379	2.268	13.7	20.2
1 2	7 53.33	+ 6 2.7	1.332	2.269	9.9	19.9
1 12	7 45.08	+ 6 7.9	1.309	2.271	6.9	19.8
1 22	7 36.39	+ 6 32.6	1.312	2.273	6.9	19.8
2 1	7 28.59	+ 7 12.9	1.339	2.277	9.9	20.0
2 11	7 22.87	+ 8 3.4	1.391	2.282	13.6	20.2
2 21	7 19.93	+ 8 58.0	1.463	2.288	17.1	20.4
5064 Tanchozuru			1 14.8 206°.05		2°.6/15.9 18	R
12 13	8 10.82	+12 41.5	1.843	2.656	14.4	17.6
12 23	8 4.62	+12 55.1	1.757	2.651	10.9	17.3
1 2	7 55.97	+13 21.5	1.696	2.645	7.0	17.1
1 12	7 45.67	+13 58.7	1.662	2.639	3.2	16.8
1 22	7 34.82	+14 43.2	1.658	2.632	3.9	16.9
2 1	7 24.66	+15 30.9	1.683	2.624	8.0	17.1
2 11	7 16.34	+16 18.0	1.735	2.615	12.0	17.3
2 21	7 10.63	+17 1.8	1.810	2.606	15.5	17.5
203123 2000 SH_{231}			1 14.8 113°.31		0°.6/14.9 18	
12 13	8 13.24	+18 49.8	1.824	2.647	14.1	20.9
12 23	8 6.10	+19 1.7	1.765	2.668	10.3	20.7
1 2	7 56.62	+19 19.7	1.732	2.688	6.0	20.5
1 12	7 45.78	+19 40.4	1.726	2.708	1.5	20.2
1 22	7 34.75	+20 0.6	1.751	2.727	3.3	20.4
2 1	7 24.78	+20 17.8	1.804	2.745	7.6	20.7
2 11	7 16.88	+20 30.8	1.885	2.762	11.4	21.0
2 21	7 11.64	+20 39.3	1.989	2.779	14.5	21.2
167847 2005 CM_{74}			1 14.8 323°.84		7°.1/16.8 18	
12 13	8 7.26	+ 6 8.5	1.457	2.271	17.5	19.8
12 23	8 2.43	+ 5 21.2	1.380	2.263	14.1	19.6
1 2	7 54.86	+ 4 52.3	1.323	2.255	10.4	19.3
1 12	7 45.45	+ 4 44.5	1.291	2.248	7.5	19.2
1 22	7 35.45	+ 4 57.9	1.283	2.241	7.6	19.1
2 1	7 26.27	+ 5 29.8	1.302	2.235	10.6	19.3
2 11	7 19.22	+ 6 14.9	1.344	2.229	14.5	19.5
2 21	7 15.13	+ 7 7.2	1.407	2.224	18.1	19.7
455868 2005 UY_{77}			1 14.8 87°.93		7°.2/12.3 18	
12 13	8 18.04	+40 28.8	1.948	2.764	13.6	20.9
12 23	8 9.86	+41 29.9	1.908	2.790	10.8	20.8
1 2	7 58.87	+42 18.2	1.891	2.816	8.3	20.7
1 12	7 46.27	+42 46.2	1.902	2.841	7.2	20.7
1 22	7 33.58	+42 50.0	1.941	2.866	8.2	20.8
2 1	7 22.35	+42 29.9	2.007	2.891	10.4	21.0
2 11	7 13.73	+41 50.3	2.098	2.915	12.9	21.2
2 21	7 8.33	+40 57.4	2.209	2.938	15.1	21.4
360190 2013 DN_{9}			1 14.8 236°.93		1°.7/14.3 18	
12 13	8 12.51	+24 39.6	1.749	2.584	14.1	21.3
12 23	8 6.11	+24 59.5	1.665	2.575	10.4	21.0
1 2	7 56.95	+25 21.4	1.606	2.565	6.1	20.8
1 12	7 45.92	+25 40.4	1.575	2.556	2.0	20.5
1 22	7 34.32	+25 52.3	1.572	2.545	4.2	20.6
2 1	7 23.58	+25 54.8	1.598	2.535	8.7	20.8
2 11	7 15.01	+25 47.9	1.650	2.524	12.9	21.1
2 21	7 9.41	+25 33.4	1.723	2.513	16.4	21.3
283416 2000 SO_{153}			1 14.8 95°.48		2°.0/15.6 18	
12 13	8 12.79	+14 42.0	1.707	2.526	15.1	21.2
12 23	8 5.80	+14 55.3	1.655	2.553	11.2	21.0
1 2	7 56.46	+15 19.2	1.627	2.579	6.8	20.8
1 12	7 45.76	+15 50.7	1.626	2.605	2.6	20.6
1 22	7 34.92	+16 25.9	1.655	2.630	3.6	20.7
2 1	7 25.20	+17 1.2	1.713	2.655	7.8	21.0
2 11	7 17.62	+17 33.9	1.798	2.678	11.6	21.3
2 21	7 12.74	+18 2.4	1.905	2.702	14.8	21.6

229206 2004 VE_{25} 1 14.8 59°.13 1°.1/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 8.14	+18 11.7	1.921	2.749	13.3	20.1
12 23	8 2.44	+18 7.9	1.850	2.754	9.8	19.9
1 2	7 54.57	+18 10.2	1.803	2.760	5.8	19.6
1 12	7 45.36	+18 16.5	1.784	2.766	1.8	19.4
1 22	7 35.86	+18 24.6	1.795	2.771	3.2	19.5
2 1	7 27.18	+18 32.5	1.834	2.777	7.3	19.8
2 11	7 20.30	+18 39.0	1.900	2.783	11.0	20.0
2 21	7 15.84	+18 43.1	1.989	2.789	14.2	20.2

409459 2005 QL_{187} 1 14.8 92°.34 1°.2/14.4 18

12 13	8 10.45	+23 26.7	1.851	2.686	13.5	21.1
12 23	8 4.21	+23 49.4	1.789	2.698	9.8	20.9
1 2	7 55.61	+24 14.4	1.751	2.710	5.7	20.6
1 12	7 45.59	+24 37.7	1.741	2.722	1.6	20.4
1 22	7 35.31	+24 55.6	1.760	2.734	3.6	20.6
2 1	7 26.00	+25 6.0	1.808	2.746	7.8	20.8
2 11	7 18.70	+25 8.5	1.882	2.758	11.5	21.1
2 21	7 14.04	+25 4.0	1.979	2.769	14.6	21.3

124518 2001 RU_{73} 1 14.8 326°.29 1°.1/15.0 18

12 13	8 10.45	+19 32.2	1.282	2.132	17.3	19.4
12 23	8 5.20	+19 15.7	1.208	2.123	12.9	19.1
1 2	7 56.66	+19 5.7	1.154	2.115	7.7	18.8
1 12	7 45.89	+18 59.9	1.125	2.107	2.1	18.4
1 22	7 34.46	+18 55.6	1.123	2.100	4.3	18.5
2 1	7 24.15	+18 50.8	1.146	2.093	10.0	18.8
2 11	7 16.51	+18 44.5	1.192	2.087	15.1	19.1
2 21	7 12.42	+18 36.5	1.258	2.082	19.4	19.4

267457 2002 ER_{34} 1 14.8 332°.24 0°.5/15.0 18

12 13	8 6.83	+17 55.1	1.843	2.675	13.6	20.6
12 23	8 1.71	+18 22.0	1.765	2.673	10.0	20.4
1 2	7 54.28	+18 57.5	1.712	2.670	5.9	20.2
1 12	7 45.33	+19 38.2	1.686	2.668	1.5	19.9
1 22	7 35.93	+20 19.9	1.689	2.666	3.2	20.0
2 1	7 27.26	+20 59.0	1.720	2.663	7.6	20.3
2 11	7 20.40	+21 32.6	1.778	2.662	11.6	20.5
2 21	7 16.05	+21 59.6	1.858	2.660	15.0	20.7

244684 2003 OH_{23} 1 14.8 120°.29 0°.5/14.9 18

12 13	8 13.09	+19 21.1	1.905	2.727	13.6	21.1
12 23	8 5.95	+19 26.9	1.843	2.745	10.0	20.9
1 2	7 56.54	+19 37.7	1.806	2.763	5.8	20.7
1 12	7 45.80	+19 50.7	1.798	2.780	1.4	20.4
1 22	7 34.87	+20 3.1	1.820	2.797	3.2	20.6
2 1	7 24.94	+20 12.9	1.872	2.812	7.4	20.8
2 11	7 17.01	+20 19.1	1.951	2.827	11.1	21.1
2 21	7 11.65	+20 21.7	2.053	2.842	14.2	21.3

402676 2006 UN_{282} 1 14.8 99°.39 0°.7/14.5 18

12 13	8 11.15	+21 36.0	1.868	2.698	13.5	22.0
12 23	8 4.64	+22 5.1	1.810	2.717	9.8	21.8
1 2	7 55.83	+22 38.4	1.777	2.736	5.7	21.6
1 12	7 45.66	+23 11.4	1.772	2.754	1.3	21.3
1 22	7 35.26	+23 40.3	1.796	2.771	3.4	21.5
2 1	7 25.85	+24 2.5	1.850	2.789	7.6	21.8
2 11	7 18.44	+24 16.9	1.930	2.805	11.2	22.1
2 21	7 13.62	+24 24.0	2.033	2.822	14.3	22.3

440974 2007 CX_{14} 1 14.8 30°.81 3°.3/15.9 17

12 13	8 8.40	+12 58.5	1.124	1.972	19.3	21.1
12 23	8 3.74	+13 7.5	1.068	1.979	14.6	20.8
1 2	7 55.78	+13 35.3	1.031	1.987	9.2	20.6
1 12	7 45.70	+14 18.9	1.017	1.995	4.1	20.3
1 22	7 35.13	+15 12.7	1.028	2.004	5.0	20.4
2 1	7 25.88	+16 9.9	1.064	2.014	10.3	20.7
2 11	7 19.41	+17 4.6	1.123	2.024	15.3	21.0
2 21	7 16.52	+17 52.8	1.200	2.035	19.5	21.3

429723 2011 KS_{5} 1 14.8 163°.85 3°.9/12.7 18

12 13	8 8.83	+31 29.7	2.362	3.191	11.1	20.9
12 23	8 2.91	+32 26.4	2.291	3.193	8.3	20.7
1 2	7 54.87	+33 20.5	2.246	3.195	5.5	20.5
1 12	7 45.47	+34 6.4	2.230	3.196	3.9	20.4
1 22	7 35.70	+34 40.1	2.243	3.198	5.1	20.5
2 1	7 26.61	+34 59.1	2.286	3.199	7.9	20.7
2 11	7 19.19	+35 4.0	2.356	3.200	10.7	20.9
2 21	7 14.07	+34 56.6	2.447	3.201	13.1	21.0

110788 2001 UW_{34} 1 14.8 255°.57 5°.1/12.0 18

12 13	8 10.75	+31 28.0	1.902	2.738	13.1	18.8
12 23	8 4.95	+32 57.1	1.826	2.731	9.9	18.6
1 2	7 56.38	+34 25.5	1.775	2.723	6.8	18.4
1 12	7 45.87	+35 44.8	1.752	2.715	5.1	18.3
1 22	7 34.64	+36 47.5	1.758	2.708	6.8	18.4
2 1	7 24.13	+37 29.5	1.792	2.700	10.0	18.6
2 11	7 15.71	+37 50.5	1.850	2.691	13.3	18.8
2 21	7 10.23	+37 53.6	1.930	2.683	16.2	18.9

110322 2001 SR_{281} 1 14.8 124°.14 6°.4/17.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 8.31	+ 3 7.0	2.086	2.862	14.3	20.1
12 23	8 2.33	+ 2 28.3	2.017	2.873	11.5	19.9
1 2	7 54.44	+ 2 5.8	1.971	2.885	8.8	19.8
1 12	7 45.37	+ 2 0.8	1.952	2.895	6.7	19.7
1 22	7 36.05	+ 2 13.0	1.961	2.906	6.6	19.7
2 1	7 27.44	+ 2 40.1	1.999	2.916	8.5	19.8
2 11	7 20.42	+ 3 18.1	2.062	2.926	11.2	20.0
2 21	7 15.55	+ 4 2.8	2.149	2.935	13.7	20.2

68628 2002 BU_{17} 1 14.8 263°.91 0°.0/14.8 18

12 13	8 11.06	+20 16.6	1.660	2.495	14.7	19.9
12 23	8 5.22	+20 28.8	1.571	2.480	10.9	19.6
1 2	7 56.55	+20 47.4	1.505	2.464	6.4	19.3
1 12	7 45.91	+21 8.7	1.466	2.448	1.5	19.0
1 22	7 34.56	+21 28.9	1.456	2.432	3.7	19.1
2 1	7 23.97	+21 44.8	1.473	2.416	8.7	19.4
2 11	7 15.49	+21 55.0	1.517	2.399	13.3	19.6
2 21	7 10.00	+21 59.3	1.581	2.382	17.2	19.8

218644 2005 SJ_{47} 1 14.8 164°.54 4°.9/17.1 18

12 13	8 7.49	+ 5 16.2	2.327	3.107	12.8	21.3
12 23	8 1.64	+ 5 0.2	2.249	3.112	10.2	21.1
1 2	7 54.03	+ 4 58.0	2.194	3.117	7.4	20.9
1 12	7 45.30	+ 5 10.0	2.167	3.121	5.3	20.8
1 22	7 36.27	+ 5 35.1	2.170	3.124	5.3	20.8
2 1	7 27.83	+ 6 10.8	2.202	3.127	7.4	20.9
2 11	7 20.79	+ 6 53.7	2.261	3.129	10.1	21.1
2 21	7 15.70	+ 7 40.1	2.345	3.131	12.7	21.3

210033 2006 OT_{1} 1 14.8 275°.13 1°.9/14.1 18

12 13	8 11.00	+24 16.1	1.669	2.508	14.4	20.7
12 23	8 5.30	+24 50.3	1.578	2.490	10.7	20.4
1 2	7 56.68	+25 28.6	1.511	2.471	6.3	20.1
1 12	7 45.97	+26 5.5	1.471	2.451	2.2	19.8
1 22	7 34.45	+26 35.6	1.459	2.432	4.5	19.9
2 1	7 23.67	+26 54.9	1.475	2.412	9.2	20.2
2 11	7 15.06	+27 2.6	1.516	2.393	13.7	20.4
2 21	7 9.54	+27 0.0	1.579	2.373	17.5	20.6

369567 2011 BL_{27} 1 14.8 348°.94 1°.4/14.4 18

12 13	8 9.87	+25 1.9	1.775	2.614	13.7	20.6
12 23	8 4.02	+25 6.2	1.701	2.612	10.1	20.4
1 2	7 55.65	+25 10.9	1.650	2.610	5.9	20.1
1 12	7 45.68	+25 12.4	1.627	2.608	1.8	19.9
1 22	7 35.33	+25 7.8	1.633	2.607	3.8	20.0
2 1	7 25.92	+24 55.7	1.667	2.606	8.2	20.3
2 11	7 18.59	+24 36.8	1.726	2.605	12.1	20.5
2 21	7 14.03	+24 12.6	1.808	2.605	15.5	20.7

425382 2010 CA_{45} 1 14.8 200°.14 1°.8/15.8 17

12 13	8 4.37	+13 38.0	2.762	3.569	10.3	21.8
12 23	7 59.24	+13 48.0	2.676	3.567	7.7	21.7
1 2	7 52.59	+14 5.7	2.616	3.564	4.9	21.5
1 12	7 44.99	+14 29.8	2.585	3.561	2.2	21.3
1 22	7 37.10	+14 58.2	2.585	3.558	2.7	21.3
2 1	7 29.66	+15 28.9	2.616	3.555	5.6	21.5
2 11	7 23.37	+15 59.7	2.675	3.551	8.4	21.7
2 21	7 18.72	+16 28.9	2.759	3.548	10.9	21.8

162949 2001 QW_{44} 1 14.8 52°.64 1°.1/14.5 18

12 13	8 9.33	+24 50.1	2.075	2.907	12.3	18.9
12 23	8 3.20	+24 48.0	2.008	2.916	9.0	18.7
1 2	7 54.98	+24 46.0	1.966	2.924	5.2	18.5
1 12	7 45.52	+24 41.2	1.952	2.933	1.5	18.3
1 22	7 35.85	+24 31.6	1.968	2.942	3.3	18.4
2 1	7 27.07	+24 16.5	2.013	2.951	7.1	18.7
2 11	7 20.09	+23 56.3	2.085	2.961	10.5	18.9
2 21	7 15.48	+23 32.2	2.181	2.970	13.4	19.1

388033 2005 SW_{109} 1 14.8 189°.69 0°.9/15.2 18

12 13	8 12.86	+17 40.4	1.787	2.610	14.4	22.5
12 23	8 6.19	+17 53.2	1.707	2.609	10.7	22.2
1 2	7 56.94	+18 14.0	1.652	2.608	6.4	22.0
1 12	7 46.00	+18 39.8	1.624	2.606	1.8	21.7
1 22	7 34.56	+19 6.8	1.626	2.603	3.5	21.8
2 1	7 23.96	+19 31.9	1.658	2.599	8.1	22.0
2 11	7 15.38	+19 53.1	1.716	2.595	12.2	22.3
2 21	7 9.58	+20 9.6	1.796	2.589	15.7	22.5

226578 2003 YC_{44} 1 14.8 185°.55 0°.3/14.6 18

12 13	8 6.06	+20 1.2	2.390	3.215	11.1	20.4
12 23	8 0.74	+20 40.2	2.310	3.215	8.1	20.2
1 2	7 53.58	+21 24.7	2.257	3.215	4.7	20.0
1 12	7 45.23	+22 11.3	2.232	3.215	1.0	19.7
1 22	7 36.52	+22 56.3	2.239	3.214	2.8	19.9
2 1	7 28.37	+23 36.7	2.275	3.214	6.4	20.1
2 11	7 21.63	+24 10.5	2.339	3.213	9.6	20.3
2 21	7 16.88	+24 37.0	2.428	3.212	12.4	20.5

331460 2012 HA_{28} 1 14.8 303°.09 0°.2/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 7.47	+18 47.8	1.843	2.676	13.6	20.8
12 23	8 2.23	+19 16.0	1.764	2.672	10.0	20.6
1 2	7 54.64	+19 52.0	1.710	2.668	5.9	20.4
1 12	7 45.49	+20 32.3	1.683	2.665	1.4	20.0
1 22	7 35.87	+21 12.7	1.685	2.661	3.3	20.2
2 1	7 26.99	+21 49.4	1.715	2.658	7.7	20.4
2 11	7 19.93	+22 19.9	1.772	2.655	11.7	20.7
2 21	7 15.41	+22 43.4	1.851	2.651	15.1	20.9

50615 2000 EG_{60} 1 14.8 278°.40 4°.6/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.76	+ 6 40.2	2.200	2.994	13.0	19.1
12 23	7 59.84	+ 6 33.1	2.116	2.990	10.3	18.9
1 2	7 53.08	+ 6 40.1	2.056	2.986	7.3	18.7
1 12	7 45.13	+ 7 1.4	2.022	2.983	5.0	18.5
1 22	7 36.81	+ 7 35.3	2.018	2.979	5.0	18.5
2 1	7 29.04	+ 8 18.9	2.042	2.975	7.4	18.7
2 11	7 22.67	+ 9 8.6	2.094	2.971	10.4	18.8
2 21	7 18.29	+10 0.4	2.169	2.968	13.2	19.0

126869 2002 EZ_{85} 1 14.8 331°.91 0°.3/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.07	+18 56.9	1.611	2.454	14.7	19.5
12 23	8 1.54	+19 18.3	1.530	2.443	10.9	19.2
1 2	7 54.39	+19 48.4	1.472	2.433	6.4	19.0
1 12	7 45.46	+20 23.7	1.440	2.423	1.5	18.6
1 22	7 35.94	+20 59.7	1.436	2.413	3.6	18.7
2 1	7 27.19	+21 32.5	1.459	2.405	8.5	19.0
2 11	7 20.46	+21 59.4	1.507	2.397	12.9	19.2
2 21	7 16.57	+22 19.3	1.576	2.389	16.7	19.5

26062 2466 $T\text{-}_3$ 1 14.8 99°.59 4°.4/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.12	+33 32.0	2.196	3.024	11.9	18.3
12 23	8 4.61	+34 10.4	2.134	3.033	9.0	18.2
1 2	7 55.85	+34 43.3	2.096	3.043	6.1	18.0
1 12	7 45.73	+35 5.4	2.088	3.052	4.4	17.9
1 22	7 35.36	+35 13.2	2.108	3.061	5.5	18.0
2 1	7 25.91	+35 5.6	2.157	3.070	8.3	18.2
2 11	7 18.38	+34 44.4	2.232	3.079	11.1	18.4
2 21	7 13.38	+34 12.7	2.330	3.088	13.6	18.6

202306 2005 CQ_{79} 1 14.8 238°.74 0°.3/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.50	+19 5.9	2.397	3.220	11.2	20.7
12 23	8 1.07	+19 22.4	2.309	3.212	8.2	20.5
1 2	7 53.78	+19 44.2	2.247	3.204	4.8	20.3
1 12	7 45.29	+20 8.8	2.214	3.196	1.2	20.0
1 22	7 36.41	+20 33.6	2.211	3.188	2.7	20.1
2 1	7 28.08	+20 56.2	2.239	3.179	6.3	20.3
2 11	7 21.13	+21 15.1	2.294	3.170	9.7	20.5
2 21	7 16.18	+21 29.5	2.373	3.161	12.5	20.7

175473 2006 QU_{148} 1 14.8 103°.73 0°.9/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.16	+16 58.5	1.838	2.663	14.0	21.0
12 23	8 3.97	+17 25.1	1.776	2.679	10.3	20.8
1 2	7 55.51	+18 0.2	1.739	2.695	6.1	20.6
1 12	7 45.66	+18 40.5	1.730	2.711	1.7	20.4
1 22	7 35.55	+19 21.6	1.750	2.727	3.2	20.5
2 1	7 26.36	+20 0.1	1.800	2.742	7.4	20.8
2 11	7 19.09	+20 33.4	1.876	2.757	11.2	21.1
2 21	7 14.36	+21 0.6	1.975	2.771	14.4	21.3

522386 2016 CT_{305} 1 14.8 0°.85 7°.4/18.1 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.81	+ 2 18.7	1.508	2.309	17.7	21.5
12 23	8 0.54	+ 2 7.8	1.436	2.307	14.4	21.3
1 2	7 53.76	+ 2 21.6	1.383	2.307	10.9	21.1
1 12	7 45.32	+ 3 1.3	1.355	2.307	8.0	20.9
1 22	7 36.37	+ 4 4.7	1.352	2.307	7.7	20.9
2 1	7 28.23	+ 5 26.2	1.375	2.308	10.1	21.1
2 11	7 22.08	+ 6 57.8	1.422	2.310	13.6	21.3
2 21	7 18.67	+ 8 31.5	1.491	2.312	17.0	21.5

282803 2006 QD_{100} 1 14.8 109°.54 7°.0/19.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.74	− 4 42.1	2.839	3.560	12.1	21.0
12 23	7 59.33	− 5 19.0	2.773	3.579	10.3	20.8
1 2	7 52.57	− 5 39.4	2.731	3.596	8.5	20.7
1 12	7 45.00	− 5 41.9	2.714	3.614	7.3	20.7
1 22	7 37.27	− 5 26.7	2.726	3.631	7.0	20.7
2 1	7 30.05	− 4 55.4	2.765	3.648	7.9	20.8
2 11	7 23.96	− 4 11.6	2.831	3.664	9.4	20.9
2 21	7 19.43	− 3 19.3	2.921	3.680	11.1	21.0

401435 2013 CL_{111} 1 14.8 223°.96 0°.0/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.09	+18 39.6	1.673	2.507	14.7	21.5
12 23	8 4.41	+19 21.4	1.594	2.502	10.9	21.3
1 2	7 56.05	+20 13.0	1.539	2.498	6.4	21.0
1 12	7 45.85	+21 9.7	1.510	2.493	1.4	20.7
1 22	7 35.04	+22 5.8	1.511	2.487	3.6	20.8
2 1	7 25.02	+22 56.2	1.540	2.482	8.5	21.1
2 11	7 17.07	+23 37.9	1.595	2.476	12.8	21.3
2 21	7 12.00	+24 9.9	1.672	2.470	16.5	21.6

10185 Gaudi 1 14.8 205°.27 1°.6/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 10.35	+24 37.6	2.314	3.139	11.4	18.3
12 23	8 4.00	+25 13.1	2.229	3.134	8.4	18.1
1 2	7 55.55	+25 50.7	2.171	3.128	4.9	17.9
1 12	7 45.71	+26 26.1	2.142	3.122	1.8	17.6
1 22	7 35.42	+26 55.5	2.143	3.115	3.5	17.8
2 1	7 25.76	+27 16.4	2.175	3.107	7.1	18.0
2 11	7 17.69	+27 28.1	2.235	3.098	10.4	18.2
2 21	7 11.88	+27 31.3	2.318	3.089	13.3	18.3

404278 2013 ET_{88} 1 14.8 283°.99 0°.3/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.10	+18 25.8	1.578	2.416	15.2	21.2
12 23	8 3.79	+18 56.1	1.500	2.410	11.3	21.0
1 2	7 55.72	+19 36.3	1.446	2.405	6.6	20.7
1 12	7 45.78	+20 22.1	1.417	2.400	1.6	20.4
1 22	7 35.23	+21 8.4	1.417	2.394	3.7	20.5
2 1	7 25.53	+21 50.4	1.445	2.389	8.7	20.8
2 11	7 17.98	+22 25.2	1.497	2.384	13.2	21.0
2 21	7 13.41	+22 51.6	1.571	2.378	17.0	21.3

377035 2002 SM_{15} 1 14.8 89°.51 2°.7/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.95	+30 18.9	2.428	3.248	11.1	20.9
12 23	8 5.47	+30 31.6	2.376	3.276	8.2	20.7
1 2	7 56.13	+30 40.1	2.352	3.304	5.1	20.6
1 12	7 45.78	+30 40.9	2.357	3.331	2.8	20.5
1 22	7 35.42	+30 32.2	2.393	3.357	4.0	20.6
2 1	7 26.03	+30 13.7	2.459	3.383	6.8	20.8
2 11	7 18.41	+29 47.0	2.553	3.409	9.6	21.0
2 21	7 13.05	+29 14.2	2.672	3.434	11.9	21.2

227922 2007 FQ_{37} 1 14.8 238°.13 1°.3/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.30	+16 23.9	2.071	2.894	12.7	21.3
12 23	8 1.86	+16 33.9	1.988	2.889	9.4	21.1
1 2	7 54.33	+16 52.0	1.930	2.884	5.7	20.9
1 12	7 45.44	+17 16.0	1.900	2.880	2.0	20.6
1 22	7 36.14	+17 43.0	1.899	2.875	3.1	20.7
2 1	7 27.48	+18 10.3	1.928	2.870	7.0	20.9
2 11	7 20.42	+18 35.6	1.984	2.865	10.7	21.1
2 21	7 15.62	+18 57.6	2.063	2.860	13.8	21.3

319680 2006 TV_{80} 1 14.8 143°.66 5°.0/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.02	+ 8 53.2	1.826	2.631	14.9	21.0
12 23	8 3.20	+ 8 17.2	1.751	2.634	11.6	20.8
1 2	7 55.12	+ 7 54.4	1.700	2.636	8.1	20.6
1 12	7 45.62	+ 7 45.7	1.675	2.638	5.4	20.5
1 22	7 35.75	+ 7 50.4	1.678	2.640	5.6	20.5
2 1	7 26.66	+ 8 6.5	1.709	2.642	8.5	20.7
2 11	7 19.39	+ 8 30.8	1.766	2.644	12.0	20.9
2 21	7 14.58	+ 8 59.6	1.846	2.646	15.1	21.1

493167 2014 TY_{83} 1 14.8 131°.58 1°.7/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.17	+24 23.8	2.011	2.843	12.6	21.4
12 23	8 4.00	+25 2.6	1.943	2.851	9.2	21.2
1 2	7 55.57	+25 43.7	1.900	2.859	5.4	21.0
1 12	7 45.72	+26 22.2	1.886	2.866	2.0	20.8
1 22	7 35.52	+26 53.9	1.902	2.874	3.8	20.9
2 1	7 26.16	+27 16.1	1.947	2.880	7.6	21.2
2 11	7 18.65	+27 28.3	2.018	2.887	11.1	21.4
2 21	7 13.65	+27 31.4	2.112	2.893	14.1	21.6

159081 2004 TN_{224} 1 14.8 68°.01 2°.0/15.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.58	+15 0.9	1.895	2.719	13.7	20.8
12 23	8 2.08	+15 0.9	1.826	2.726	10.2	20.6
1 2	7 54.44	+15 10.2	1.780	2.733	6.3	20.4
1 12	7 45.46	+15 26.9	1.763	2.741	2.6	20.2
1 22	7 36.18	+15 48.6	1.773	2.748	3.5	20.3
2 1	7 27.70	+16 12.5	1.813	2.756	7.3	20.5
2 11	7 21.00	+16 36.1	1.879	2.764	11.0	20.8
2 21	7 16.67	+16 57.7	1.968	2.771	14.2	21.0

366786 2004 TD_{305} 1 14.8 98°.42 0°.7/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.82	+17 50.8	2.093	2.915	12.6	21.7
12 23	8 2.76	+18 7.5	2.031	2.932	9.2	21.5
1 2	7 54.73	+18 30.6	1.994	2.950	5.4	21.3
1 12	7 45.51	+18 57.4	1.985	2.967	1.5	21.0
1 22	7 36.09	+19 24.8	2.007	2.983	2.9	21.2
2 1	7 27.48	+19 50.2	2.058	2.999	6.7	21.5
2 11	7 20.56	+20 11.9	2.137	3.015	10.2	21.7
2 21	7 15.88	+20 29.1	2.239	3.031	13.1	21.9

297513 2000 YQ_{55} 1 14.8 40°.97 0°.8/15.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.90	+14 35.6	1.131	1.981	19.1	19.9
12 23	8 3.96	+15 49.2	1.089	2.005	14.0	19.7
1 2	7 55.84	+17 20.7	1.069	2.030	8.2	19.5
1 12	7 45.80	+19 1.6	1.074	2.055	2.2	19.2
1 22	7 35.50	+20 41.4	1.104	2.082	4.2	19.4
2 1	7 26.67	+22 11.2	1.160	2.109	9.8	19.8
2 11	7 20.64	+23 25.5	1.240	2.136	14.6	20.1
2 21	7 18.07	+24 22.8	1.340	2.164	18.4	20.5

189264 Gerardjeong 1 14.8 110°.31 4°.1/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 4.97	+ 7 16.0	2.393	3.185	12.2	20.4
12 23	7 59.80	+ 7 6.7	2.318	3.192	9.5	20.3
1 2	7 52.98	+ 7 9.8	2.268	3.198	6.7	20.1
1 12	7 45.14	+ 7 25.3	2.245	3.205	4.5	20.0
1 22	7 37.05	+ 7 51.5	2.251	3.212	4.5	20.0
2 1	7 29.52	+ 8 26.1	2.287	3.218	6.8	20.1
2 11	7 23.32	+ 9 6.0	2.350	3.225	9.5	20.3
2 21	7 18.95	+ 9 47.9	2.438	3.231	12.1	20.5

327019 2004 RU_{204} 1 14.8 101°.67 0°.5/15.0 18

12 13	8 9.29	+19 30.4	1.992	2.819	12.9	21.3
12 23	8 3.25	+19 31.1	1.923	2.827	9.5	21.1
1 2	7 55.09	+19 36.7	1.878	2.835	5.6	20.9
1 12	7 45.62	+19 44.8	1.861	2.843	1.4	20.6
1 22	7 35.88	+19 52.9	1.875	2.851	3.0	20.7
2 1	7 26.98	+19 59.2	1.917	2.859	7.1	21.0
2 11	7 19.86	+20 2.8	1.986	2.866	10.7	21.3
2 21	7 15.12	+20 3.3	2.079	2.874	13.8	21.5

160393 2004 PZ_6 1 14.8 256°.96 3°.7/16.6 18

12 13	8 6.89	+ 8 39.8	2.143	2.942	13.2	20.9
12 23	8 1.61	+ 8 53.3	2.044	2.925	10.3	20.6
1 2	7 54.26	+ 9 21.4	1.969	2.908	7.0	20.4
1 12	7 45.47	+10 3.3	1.921	2.890	4.2	20.2
1 22	7 36.12	+10 56.6	1.903	2.871	4.3	20.2
2 1	7 27.21	+11 57.3	1.915	2.852	7.4	20.3
2 11	7 19.74	+13 1.1	1.954	2.833	10.9	20.5
2 21	7 14.40	+14 4.1	2.017	2.814	14.1	20.7

438040 2004 JW_{11} 1 14.8 281°.98 0°.7/15.2 18

12 13	8 10.84	+12 50.7	1.157	1.999	19.3	20.8
12 23	8 6.29	+14 27.3	1.069	1.980	14.6	20.4
1 2	7 57.91	+16 35.7	1.001	1.960	8.9	20.1
1 12	7 46.45	+19 8.8	0.959	1.941	2.3	19.6
1 22	7 33.44	+21 52.6	0.943	1.921	4.9	19.7
2 1	7 20.99	+24 30.8	0.955	1.901	11.7	20.0
2 11	7 11.26	+26 50.2	0.990	1.881	17.9	20.3
2 21	7 5.70	+28 44.9	1.044	1.861	23.0	20.5

357134 2002 AD_{105} 1 14.8 2°.62 0°.6/14.7 18

12 13	8 9.03	+21 59.3	1.177	2.036	17.8	20.8
12 23	8 4.35	+22 6.6	1.114	2.035	13.2	20.5
1 2	7 56.27	+22 19.8	1.071	2.034	7.7	20.2
1 12	7 45.95	+22 34.2	1.052	2.035	1.8	19.9
1 22	7 35.07	+22 45.0	1.059	2.036	4.5	20.1
2 1	7 25.52	+22 49.3	1.090	2.039	10.3	20.4
2 11	7 18.82	+22 46.3	1.144	2.042	15.4	20.7
2 21	7 15.79	+22 36.8	1.217	2.046	19.6	21.0

492426 2014 ME_4 1 14.8 132°.43 0°.1/14.9 18

12 13	8 12.66	+20 29.9	1.980	2.803	13.2	21.4
12 23	8 5.68	+20 34.5	1.914	2.817	9.6	21.2
1 2	7 56.47	+20 43.0	1.872	2.829	5.6	21.0
1 12	7 45.93	+20 52.5	1.860	2.842	1.3	20.7
1 22	7 35.16	+21 0.5	1.877	2.853	3.1	20.9
2 1	7 25.31	+21 5.1	1.925	2.865	7.2	21.1
2 11	7 17.38	+21 5.9	2.000	2.875	10.9	21.4
2 21	7 11.96	+21 2.9	2.098	2.885	14.0	21.6

433857 2015 BX_{278} 1 14.8 16°.82 2°.4/16.1 18

12 13	8 4.79	+11 49.4	2.243	3.054	12.2	20.3
12 23	7 59.87	+12 10.9	2.162	3.054	9.3	20.1
1 2	7 53.12	+12 43.9	2.107	3.054	6.0	19.9
1 12	7 45.20	+13 26.6	2.080	3.055	2.9	19.7
1 22	7 36.93	+14 15.9	2.082	3.055	3.3	19.7
2 1	7 29.22	+15 8.3	2.114	3.055	6.5	19.9
2 11	7 22.91	+16 0.3	2.174	3.056	9.8	20.2
2 21	7 18.59	+16 49.1	2.258	3.057	12.7	20.3

9957 Raffaellosanti 1 14.8 138°.61 4°.2/16.3 18

12 13	8 11.57	+10 24.9	1.686	2.496	15.7	18.0
12 23	8 5.18	+10 8.4	1.617	2.505	12.1	17.8
1 2	7 56.32	+10 5.9	1.571	2.514	8.1	17.5
1 12	7 45.92	+10 16.9	1.552	2.522	4.7	17.4
1 22	7 35.16	+10 39.3	1.561	2.530	5.0	17.4
2 1	7 25.34	+11 9.8	1.599	2.537	8.6	17.6
2 11	7 17.56	+11 44.8	1.663	2.544	12.4	17.9
2 21	7 12.50	+12 20.8	1.748	2.550	15.8	18.1

238094 2003 HH_{17} 1 14.8 299°.34 1°.7/14.2 18

12 13	8 9.61	+21 54.1	1.393	2.242	16.2	20.2
12 23	8 4.67	+22 46.8	1.313	2.230	12.0	20.0
1 2	7 56.50	+23 48.8	1.257	2.218	7.0	19.6
1 12	7 46.04	+24 53.3	1.226	2.207	2.1	19.3
1 22	7 34.73	+25 52.5	1.221	2.196	4.8	19.5
2 1	7 24.31	+26 40.2	1.244	2.185	10.1	19.7
2 11	7 16.38	+27 13.8	1.290	2.174	15.0	20.0
2 21	7 11.91	+27 33.6	1.356	2.164	19.1	20.2

277258 2005 SD_5 1 14.8 144°.45 2°.8/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 16.23	+26 45.8	1.773	2.602	14.2	21.2
12 23	8 8.68	+27 27.8	1.709	2.615	10.4	21.0
1 2	7 58.39	+28 9.6	1.670	2.627	6.3	20.8
1 12	7 46.39	+28 45.1	1.660	2.638	2.9	20.6
1 22	7 34.05	+29 9.3	1.679	2.648	4.7	20.7
2 1	7 22.82	+29 19.9	1.728	2.657	8.8	21.0
2 11	7 13.93	+29 17.6	1.802	2.665	12.5	21.3
2 21	7 8.07	+29 5.2	1.898	2.673	15.7	21.5

98283 2000 SB_{218} 1 14.8 204°.65 0°.9/15.2 18

12 13	8 10.42	+16 32.2	1.884	2.706	13.8	19.7
12 23	8 4.39	+17 4.1	1.801	2.702	10.2	19.5
1 2	7 55.95	+17 46.2	1.742	2.698	6.1	19.2
1 12	7 45.87	+18 34.8	1.712	2.693	1.8	18.9
1 22	7 35.25	+19 25.5	1.711	2.687	3.3	19.0
2 1	7 25.32	+20 13.9	1.739	2.681	7.7	19.3
2 11	7 17.22	+20 57.0	1.795	2.674	11.7	19.5
2 21	7 11.69	+21 33.2	1.873	2.667	15.2	19.7

276686 2003 YY_{41} 1 14.8 245°.14 0°.7/14.6 18

12 13	8 11.72	+20 1.9	1.456	2.297	16.1	21.3
12 23	8 6.06	+20 46.2	1.376	2.289	11.9	21.0
1 2	7 57.24	+21 40.7	1.320	2.280	7.0	20.7
1 12	7 46.21	+22 39.4	1.289	2.271	1.6	20.3
1 22	7 34.39	+23 35.6	1.286	2.262	4.2	20.5
2 1	7 23.45	+24 23.4	1.311	2.253	9.6	20.8
2 11	7 14.93	+24 59.9	1.360	2.243	14.5	21.0
2 21	7 9.78	+25 24.9	1.429	2.233	18.5	21.3

153821 2001 WS_{31} 1 14.8 359°.69 2°.6/15.7 18

12 13	8 5.54	+15 3.0	1.370	2.215	16.7	19.8
12 23	8 1.35	+14 54.4	1.301	2.212	12.6	19.5
1 2	7 54.35	+14 58.2	1.254	2.210	7.8	19.3
1 12	7 45.53	+15 12.9	1.231	2.210	3.3	19.0
1 22	7 36.21	+15 35.2	1.234	2.210	4.4	19.1
2 1	7 27.88	+16 1.7	1.263	2.211	9.1	19.3
2 11	7 21.83	+16 28.8	1.316	2.214	13.7	19.6
2 21	7 18.82	+16 53.5	1.389	2.218	17.7	19.9

199095 2005 YO_{23} 1 14.8 99°.06 0°.9/14.4 18

12 13	8 14.10	+19 27.8	1.607	2.437	15.4	21.0
12 23	8 7.15	+20 40.6	1.555	2.462	11.2	20.8
1 2	7 57.51	+22 1.7	1.527	2.486	6.4	20.6
1 12	7 46.21	+23 23.9	1.528	2.510	1.5	20.3
1 22	7 34.61	+24 39.6	1.558	2.533	3.9	20.5
2 1	7 24.16	+25 43.5	1.618	2.555	8.5	20.9
2 11	7 16.06	+26 33.2	1.704	2.577	12.6	21.2
2 21	7 10.96	+27 9.3	1.811	2.598	15.9	21.4

37828 1998 BK_{33} 1 14.8 292°.61 2°.0/14.0 18

12 13	8 9.90	+22 51.9	1.527	2.372	15.3	17.9
12 23	8 4.60	+23 49.6	1.452	2.366	11.2	17.7
1 2	7 56.32	+24 54.4	1.400	2.361	6.6	17.4
1 12	7 46.00	+25 59.5	1.375	2.355	2.3	17.1
1 22	7 34.98	+26 57.7	1.377	2.350	4.7	17.3
2 1	7 24.86	+27 43.5	1.407	2.345	9.5	17.5
2 11	7 17.06	+28 14.9	1.461	2.340	14.0	17.8
2 21	7 12.47	+28 32.6	1.536	2.335	17.7	18.0

345143 2005 SO_{71} 1 14.8 24°.84 4°.2/16.0 18

12 13	8 9.75	+12 22.5	1.269	2.106	18.3	20.1
12 23	8 4.54	+12 1.6	1.204	2.108	14.0	19.8
1 2	7 56.25	+11 56.2	1.160	2.111	9.1	19.6
1 12	7 45.96	+12 6.0	1.140	2.115	4.8	19.3
1 22	7 35.16	+12 28.3	1.145	2.118	5.5	19.4
2 1	7 25.51	+12 59.1	1.177	2.122	10.0	19.6
2 11	7 18.42	+13 33.9	1.231	2.127	14.7	19.9
2 21	7 14.66	+14 8.5	1.306	2.131	18.8	20.2

3365 Recogne 1 14.8 175°.13 3°.3/16.4 18

12 13	8 7.33	+ 9 43.8	2.381	3.177	12.1	17.5
12 23	8 1.58	+ 9 42.5	2.299	3.179	9.3	17.3
1 2	7 54.07	+ 9 52.4	2.243	3.181	6.3	17.2
1 12	7 45.43	+10 12.6	2.215	3.183	3.7	17.0
1 22	7 36.48	+10 41.4	2.216	3.184	3.9	17.0
2 1	7 28.09	+11 16.3	2.249	3.184	6.6	17.2
2 11	7 21.07	+11 54.3	2.309	3.184	9.6	17.4
2 21	7 15.98	+12 32.7	2.393	3.183	12.4	17.5

130023 1999 VV_{77} 1 14.8 25°.43 5°.8/12.7 18

12 13	8 10.41	+34 2.2	1.630	2.473	14.5	18.9
12 23	8 4.82	+34 59.5	1.574	2.481	11.1	18.7
1 2	7 56.30	+35 50.4	1.541	2.489	7.7	18.6
1 12	7 45.95	+36 27.0	1.534	2.497	5.9	18.5
1 22	7 35.24	+36 44.1	1.555	2.506	7.3	18.6
2 1	7 25.74	+36 39.8	1.601	2.516	10.4	18.8
2 11	7 18.74	+36 17.0	1.671	2.527	13.8	19.0
2 21	7 14.91	+35 40.0	1.762	2.537	16.7	19.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
218994 2008 HY_{29}			1 14.8	102°.92	1°.3/15.5	18
	h m	° ′			°	m
12 13	8 8.18	+15 19.1	1.985	2.806	13.2	20.6
12 23	8 2.46	+15 49.3	1.919	2.818	9.8	20.4
1 2	7 54.66	+16 29.3	1.877	2.831	5.9	20.2
1 12	7 45.57	+17 16.0	1.863	2.843	2.0	20.0
1 22	7 36.18	+18 5.3	1.879	2.855	3.1	20.1
2 1	7 27.56	+18 53.3	1.925	2.867	7.0	20.3
2 11	7 20.65	+19 37.1	1.998	2.879	10.6	20.6
2 21	7 16.05	+20 14.9	2.094	2.890	13.7	20.8
170020 2002 UW_{23}			1 14.8	11°.14	6°.8/12.2	18
12 13	8 10.56	+37 57.9	1.829	2.663	13.6	19.5
12 23	8 4.84	+38 55.8	1.769	2.665	10.7	19.3
1 2	7 56.29	+39 44.5	1.732	2.668	8.0	19.2
1 12	7 45.96	+40 16.5	1.721	2.671	6.8	19.1
1 22	7 35.23	+40 26.7	1.738	2.675	8.0	19.2
2 1	7 25.62	+40 14.1	1.780	2.679	10.6	19.4
2 11	7 18.39	+39 41.6	1.846	2.684	13.4	19.6
2 21	7 14.23	+38 54.3	1.933	2.690	16.0	19.7
379134 2009 CJ_{53}			1 14.8	4°.65	2°.8/16.4	18
12 13	8 3.95	+ 9 59.1	1.816	2.634	14.4	19.8
12 23	7 59.65	+10 47.8	1.740	2.635	11.0	19.6
1 2	7 53.18	+11 54.1	1.687	2.635	7.1	19.4
1 12	7 45.27	+13 14.8	1.661	2.637	3.4	19.1
1 22	7 36.90	+14 44.5	1.664	2.639	3.8	19.2
2 1	7 29.20	+16 16.9	1.696	2.641	7.5	19.4
2 11	7 23.17	+17 45.8	1.755	2.645	11.4	19.6
2 21	7 19.50	+19 6.7	1.837	2.649	14.7	19.9
105237 2000 PF_{20}			1 14.8	160°.87	1°.6/14.2	18
12 13	8 12.98	+23 36.4	1.874	2.704	13.5	20.9
12 23	8 6.23	+24 14.4	1.803	2.710	9.9	20.7
1 2	7 56.98	+24 55.4	1.757	2.716	5.8	20.5
1 12	7 46.12	+25 34.5	1.740	2.721	1.9	20.2
1 22	7 34.85	+26 6.9	1.752	2.725	3.9	20.4
2 1	7 24.47	+26 29.6	1.793	2.728	8.1	20.6
2 11	7 16.14	+26 42.1	1.862	2.731	11.9	20.9
2 21	7 10.55	+26 45.3	1.952	2.734	15.1	21.1
244335 2002 JX_{62}			1 14.8	183°.61	1°.4/15.5	18
12 13	8 10.07	+15 32.3	2.231	3.042	12.3	21.4
12 23	8 3.76	+15 51.9	2.148	3.043	9.2	21.2
1 2	7 55.42	+16 19.9	2.091	3.043	5.6	21.0
1 12	7 45.77	+16 53.9	2.063	3.043	2.0	20.7
1 22	7 35.73	+17 30.8	2.066	3.041	3.0	20.8
2 1	7 26.31	+18 7.5	2.099	3.039	6.7	21.0
2 11	7 18.44	+18 41.5	2.161	3.036	10.2	21.2
2 21	7 12.75	+19 11.5	2.246	3.032	13.2	21.4
349258 2007 TB_{153}			1 14.8	110°.12	2°.0/13.9	18
12 13	8 9.18	+27 20.5	2.467	3.293	10.8	21.0
12 23	8 2.90	+27 41.2	2.402	3.306	7.9	20.9
1 2	7 54.79	+28 0.7	2.363	3.319	4.7	20.7
1 12	7 45.60	+28 15.5	2.354	3.332	2.1	20.5
1 22	7 36.23	+28 23.1	2.376	3.345	3.5	20.6
2 1	7 27.60	+28 22.4	2.427	3.357	6.6	20.9
2 11	7 20.55	+28 13.6	2.507	3.369	9.5	21.1
2 21	7 15.57	+27 58.1	2.610	3.381	12.0	21.3
238795 2005 LK_{4}			1 14.8	290°.83	4°.1/16.8	18
12 13	8 4.65	+ 7 50.1	2.287	3.084	12.5	20.3
12 23	7 59.73	+ 7 41.7	2.204	3.081	9.8	20.1
1 2	7 53.05	+ 7 46.1	2.145	3.079	6.9	19.9
1 12	7 45.24	+ 8 3.1	2.114	3.077	4.5	19.8
1 22	7 37.09	+ 8 31.2	2.111	3.074	4.6	19.8
2 1	7 29.47	+ 9 7.8	2.138	3.072	7.0	19.9
2 11	7 23.21	+ 9 49.7	2.192	3.069	10.0	20.1
2 21	7 18.86	+10 33.6	2.269	3.067	12.7	20.3
467161 2016 ET_{94}			1 14.8	339°.88	2°.3/13.9	18
12 13	8 8.55	+24 31.8	1.736	2.578	13.9	21.0
12 23	8 3.28	+25 23.0	1.663	2.576	10.2	20.8
1 2	7 55.41	+26 18.1	1.614	2.573	6.0	20.6
1 12	7 45.80	+27 11.2	1.592	2.571	2.4	20.3
1 22	7 35.66	+27 56.5	1.598	2.569	4.5	20.5
2 1	7 26.36	+28 29.9	1.633	2.568	8.7	20.7
2 11	7 19.12	+28 50.4	1.692	2.566	12.6	20.9
2 21	7 14.69	+28 58.9	1.773	2.565	16.0	21.2
144242 2004 CE_{74}			1 14.8	241°.46	0°.8/14.5	18
12 13	8 6.71	+22 51.7	2.591	3.416	10.4	20.5
12 23	8 1.19	+23 13.5	2.501	3.406	7.6	20.3
1 2	7 53.89	+23 37.8	2.437	3.395	4.4	20.1
1 12	7 45.43	+24 1.7	2.403	3.385	1.2	19.8
1 22	7 36.59	+24 22.6	2.400	3.374	2.8	19.9
2 1	7 28.26	+24 38.4	2.426	3.363	6.2	20.1
2 11	7 21.25	+24 48.2	2.481	3.351	9.3	20.3
2 21	7 16.14	+24 52.0	2.560	3.340	11.9	20.5

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
244529 2002 TG_{269}			1 14.8	127°.86	2°.7/13.9	18
	h m	° ′			°	m
12 13	8 13.17	+27 47.3	1.898	2.730	13.3	20.7
12 23	8 6.31	+28 15.7	1.834	2.740	9.8	20.5
1 2	7 56.98	+28 42.6	1.794	2.750	5.9	20.3
1 12	7 46.12	+29 3.1	1.782	2.759	2.9	20.2
1 22	7 34.97	+29 13.1	1.800	2.768	4.5	20.3
2 1	7 24.85	+29 11.3	1.847	2.777	8.2	20.5
2 11	7 16.84	+28 58.6	1.920	2.785	11.8	20.8
2 21	7 11.59	+28 37.4	2.015	2.793	14.8	21.0
334042 2001 EC_{18}			1 14.9	219°.57	13°.4/12.2	18
12 13	8 37.52	+45 48.8	1.160	1.975	21.0	21.1
12 23	8 27.42	+47 15.3	1.092	1.966	17.7	20.9
1 2	8 10.81	+48 21.2	1.043	1.956	14.7	20.7
1 12	7 49.43	+48 45.1	1.016	1.944	13.4	20.6
1 22	7 26.79	+48 13.2	1.013	1.930	14.7	20.6
2 1	7 6.97	+46 46.6	1.033	1.915	18.0	20.7
2 11	6 52.90	+44 40.8	1.074	1.899	21.9	20.9
2 21	6 45.48	+42 15.0	1.131	1.881	25.5	21.1
396714 2002 VZ_{100}			1 14.9	70°.78	4°.9/16.1	18
12 13	8 14.79	+11 38.5	1.282	2.108	18.7	20.1
12 23	8 7.80	+10 54.5	1.236	2.133	14.3	19.9
1 2	7 57.89	+10 26.1	1.211	2.157	9.5	19.7
1 12	7 46.32	+10 13.3	1.211	2.182	5.5	19.6
1 22	7 34.67	+10 14.8	1.238	2.207	5.9	19.7
2 1	7 24.51	+10 27.5	1.291	2.231	9.9	19.9
2 11	7 17.07	+10 47.4	1.368	2.255	14.1	20.2
2 21	7 12.92	+11 10.7	1.466	2.279	17.7	20.5
291075 2005 YY_{116}			1 14.9	276°.40	1°.9/14.4	18
12 13	8 13.57	+25 24.2	1.477	2.320	15.8	21.2
12 23	8 7.29	+25 33.0	1.403	2.316	11.7	21.0
1 2	7 57.87	+25 42.3	1.352	2.312	6.9	20.7
1 12	7 46.38	+25 47.2	1.327	2.308	2.3	20.4
1 22	7 34.35	+25 43.7	1.329	2.304	4.6	20.5
2 1	7 23.46	+25 30.1	1.359	2.300	9.5	20.8
2 11	7 15.16	+25 7.7	1.414	2.296	14.1	21.1
2 21	7 10.24	+24 38.8	1.489	2.292	18.0	21.3
302398 2002 CC_{101}			1 14.9	257°.23	1°.0/15.3	18
12 13	8 9.44	+16 41.3	1.603	2.436	15.3	20.6
12 23	8 4.04	+17 8.4	1.523	2.430	11.4	20.3
1 2	7 55.92	+17 47.0	1.467	2.424	6.8	20.1
1 12	7 45.95	+18 33.3	1.437	2.418	2.0	19.7
1 22	7 35.36	+19 22.4	1.435	2.412	3.7	19.8
2 1	7 25.57	+20 9.6	1.461	2.406	8.6	20.1
2 11	7 17.88	+20 51.1	1.513	2.399	13.1	20.4
2 21	7 13.11	+21 25.4	1.586	2.393	16.9	20.6
381947 2010 DK_{23}			1 14.9	319°.29	11°.7/ 5.9	15
12 13	8 15.24	+50 30.6	1.972	2.768	14.3	20.7
12 23	8 9.50	+52 49.2	1.908	2.750	12.7	20.6
1 2	7 59.78	+54 53.2	1.867	2.733	11.8	20.5
1 12	7 46.94	+56 30.4	1.851	2.717	11.9	20.4
1 22	7 32.66	+57 32.0	1.859	2.700	13.1	20.5
2 1	7 19.23	+57 55.0	1.889	2.684	14.8	20.6
2 11	7 8.78	+57 43.2	1.939	2.669	16.8	20.7
2 21	7 2.64	+57 4.1	2.004	2.654	18.6	20.8
426088 2012 DF_{51}			1 14.9	98°.51	5°.5/17.5	18
12 13	8 6.95	+ 4 44.0	1.933	2.723	14.7	21.1
12 23	8 1.59	+ 4 34.7	1.863	2.732	11.7	20.9
1 2	7 54.19	+ 4 42.9	1.816	2.741	8.5	20.8
1 12	7 45.52	+ 5 8.8	1.795	2.750	6.0	20.6
1 22	7 36.53	+ 5 50.3	1.802	2.759	5.9	20.6
2 1	7 28.28	+ 6 43.7	1.837	2.768	8.2	20.8
2 11	7 21.67	+ 7 44.1	1.899	2.776	11.3	21.0
2 21	7 17.32	+ 8 46.6	1.984	2.785	14.2	21.2
496240 2012 FD_{76}			1 14.9	250°.10	4°.0/12.6	17
12 13	8 10.76	+29 43.3	2.185	3.015	11.9	21.3
12 23	8 4.76	+30 58.1	2.095	2.999	8.9	21.1
1 2	7 56.28	+32 13.6	2.032	2.983	5.8	20.9
1 12	7 46.05	+33 23.2	1.997	2.966	4.0	20.7
1 22	7 35.09	+34 20.7	1.992	2.948	5.5	20.8
2 1	7 24.66	+35 2.0	2.017	2.931	8.7	21.0
2 11	7 15.95	+35 26.3	2.068	2.912	11.9	21.1
2 21	7 9.80	+35 35.4	2.141	2.894	14.8	21.3
189475 1999 TS_{249}			1 14.9	187°.20	1°.9/13.9	18
12 13	8 10.18	+26 52.6	2.611	3.433	10.4	20.8
12 23	8 3.67	+27 15.4	2.530	3.432	7.6	20.6
1 2	7 55.30	+27 37.6	2.476	3.431	4.6	20.4
1 12	7 45.77	+27 55.6	2.451	3.429	2.0	20.3
1 22	7 35.93	+28 6.9	2.458	3.427	3.4	20.4
2 1	7 26.71	+28 9.9	2.496	3.424	6.4	20.6
2 11	7 18.96	+28 4.7	2.561	3.421	9.4	20.7
2 21	7 13.24	+27 52.5	2.651	3.417	11.9	20.9

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
220436 2003 UO_{283}			1 14.9 58°.42		2°.1/14.4 17	
	h m	° ′			°	m
12 13	8 15.20	+24 56.2	1.139	1.994	18.6	19.6
12 23	8 8.82	+25 11.7	1.089	2.008	13.6	19.4
1 2	7 58.80	+25 28.9	1.060	2.022	8.0	19.1
1 12	7 46.58	+25 41.4	1.054	2.036	2.6	18.8
1 22	7 34.08	+25 44.0	1.075	2.050	5.1	19.0
2 1	7 23.32	+25 35.2	1.121	2.065	10.7	19.4
2 11	7 15.79	+25 16.5	1.189	2.079	15.6	19.7
2 21	7 12.17	+24 51.0	1.277	2.094	19.6	20.0
54417 2000 LH_{17}			1 14.9 345°.65		3°.5/16.2 18	
12 13	8 8.15	+11 13.4	1.367	2.199	17.5	18.2
12 23	8 3.35	+11 30.6	1.295	2.197	13.4	17.9
1 2	7 55.62	+12 6.7	1.244	2.195	8.7	17.7
1 12	7 45.91	+12 59.6	1.217	2.193	4.3	17.4
1 22	7 35.57	+14 4.2	1.217	2.192	4.8	17.4
2 1	7 26.16	+15 14.0	1.244	2.191	9.5	17.7
2 11	7 19.07	+16 22.6	1.295	2.190	14.1	18.0
2 21	7 15.16	+17 25.3	1.366	2.189	18.2	18.2
495906 2005 SG_{154}			1 14.9 187°.23		1°.2/15.4 18	
12 13	8 9.14	+16 41.5	2.314	3.128	11.8	22.6
12 23	8 3.03	+16 50.5	2.231	3.128	8.8	22.4
1 2	7 55.00	+17 6.1	2.174	3.127	5.3	22.2
1 12	7 45.73	+17 26.4	2.145	3.125	1.8	22.0
1 22	7 36.11	+17 48.8	2.148	3.123	2.8	22.0
2 1	7 27.10	+18 11.2	2.181	3.121	6.5	22.3
2 11	7 19.57	+18 31.6	2.242	3.117	9.9	22.5
2 21	7 14.14	+18 49.1	2.327	3.114	12.8	22.7
435140 2007 GC_{62}			1 14.9 152°.88		1°.2/15.8 17	
12 13	8 1.38	+14 40.9	4.199	4.999	7.2	22.4
12 23	7 56.67	+14 43.2	4.119	5.007	5.3	22.3
1 2	7 51.02	+14 49.7	4.067	5.014	3.3	22.2
1 12	7 44.81	+14 59.7	4.045	5.021	1.5	22.0
1 22	7 38.46	+15 12.1	4.055	5.028	1.9	22.1
2 1	7 32.44	+15 25.8	4.097	5.035	3.8	22.2
2 11	7 27.14	+15 39.9	4.169	5.041	5.8	22.4
2 21	7 22.91	+15 53.5	4.267	5.047	7.5	22.5
63492 2001 OL_{62}			1 14.9 35°.03		4°.7/17.1 18	
12 13	8 4.78	+ 7 8.4	1.957	2.760	14.1	19.1
12 23	8 0.01	+ 7 2.1	1.888	2.767	11.1	18.9
1 2	7 53.29	+ 7 11.3	1.842	2.776	7.8	18.7
1 12	7 45.36	+ 7 35.7	1.822	2.784	5.1	18.6
1 22	7 37.12	+ 8 13.0	1.830	2.793	5.1	18.6
2 1	7 29.59	+ 9 0.0	1.866	2.802	7.7	18.7
2 11	7 23.64	+ 9 52.1	1.929	2.812	10.9	19.0
2 21	7 19.85	+10 45.3	2.015	2.821	13.8	19.2
466332 2013 RZ_{24}			1 14.9 44°.25		1°.1/14.5 18	
12 13	8 8.37	+23 1.9	1.921	2.757	13.0	21.5
12 23	8 2.82	+23 24.3	1.851	2.761	9.5	21.3
1 2	7 55.00	+23 49.9	1.806	2.765	5.5	21.0
1 12	7 45.75	+24 14.5	1.788	2.769	1.5	20.8
1 22	7 36.16	+24 34.8	1.799	2.774	3.5	20.9
2 1	7 27.40	+24 48.4	1.839	2.779	7.5	21.2
2 11	7 20.49	+24 54.4	1.905	2.783	11.2	21.4
2 21	7 16.07	+24 53.4	1.994	2.788	14.4	21.6
336026 2007 UX_{65}			1 14.9 78°.59		7°.5/18.8 18	
12 13	8 5.34	− 2 31.1	2.306	3.053	13.9	20.7
12 23	8 0.10	− 3 9.1	2.242	3.069	11.7	20.6
1 2	7 53.21	− 3 28.4	2.200	3.085	9.5	20.5
1 12	7 45.32	− 3 27.3	2.184	3.101	7.9	20.4
1 22	7 37.24	− 3 6.3	2.195	3.117	7.6	20.4
2 1	7 29.78	− 2 27.8	2.234	3.133	8.7	20.5
2 11	7 23.70	− 1 36.1	2.299	3.149	10.7	20.7
2 21	7 19.48	− 0 36.2	2.386	3.164	12.7	20.8
462196 2007 US_{139}			1 14.9 166°.81		7°.9/17.9 18	
12 13	8 6.44	− 4 44.9	2.692	3.413	12.7	20.9
12 23	8 0.79	− 5 53.0	2.613	3.415	10.9	20.7
1 2	7 53.59	− 6 45.3	2.557	3.417	9.2	20.6
1 12	7 45.42	− 7 19.0	2.528	3.419	8.1	20.6
1 22	7 36.97	− 7 32.9	2.526	3.420	8.0	20.5
2 1	7 28.98	− 7 27.5	2.551	3.422	8.9	20.6
2 11	7 22.17	− 7 5.8	2.602	3.423	10.5	20.7
2 21	7 17.04	− 6 31.6	2.676	3.424	12.3	20.8
232609 2003 UJ_{96}			1 14.9 114°.22		2°.2/15.9 18	
12 13	8 7.00	+13 16.5	2.312	3.122	12.0	20.9
12 23	8 1.36	+13 24.2	2.242	3.134	9.0	20.7
1 2	7 53.97	+13 41.1	2.198	3.146	5.7	20.6
1 12	7 45.50	+14 5.4	2.182	3.158	2.6	20.4
1 22	7 36.80	+14 34.8	2.197	3.170	3.2	20.4
2 1	7 28.75	+15 6.7	2.241	3.181	6.3	20.7
2 11	7 22.15	+15 38.6	2.313	3.192	9.5	20.9
2 21	7 17.51	+16 8.6	2.410	3.203	12.2	21.1

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
146697 2001 VU_{73}			1 14.9 147°.37		0°.3/14.9 18	
	h m	° ′			°	m
12 13	8 12.53	+21 14.9	2.026	2.849	12.9	20.3
12 23	8 5.63	+20 58.2	1.951	2.854	9.5	20.1
1 2	7 56.54	+20 43.6	1.902	2.859	5.5	19.8
1 12	7 46.10	+20 29.3	1.882	2.864	1.3	19.5
1 22	7 35.39	+20 13.8	1.893	2.869	3.1	19.7
2 1	7 25.58	+19 56.4	1.933	2.873	7.2	19.9
2 11	7 17.62	+19 37.3	2.001	2.877	10.8	20.2
2 21	7 12.14	+19 17.1	2.092	2.881	13.9	20.4
93431 2000 SS_{317}			1 14.9 259°.04		6°.8/16.9 18	
12 13	8 8.00	+ 3 40.3	2.037	2.817	14.4	19.5
12 23	8 2.44	+ 2 45.7	1.948	2.807	11.8	19.3
1 2	7 54.79	+ 2 5.5	1.882	2.796	9.1	19.1
1 12	7 45.74	+ 1 42.4	1.842	2.785	7.1	19.0
1 22	7 36.20	+ 1 37.3	1.830	2.774	7.1	19.0
2 1	7 27.23	+ 1 49.1	1.846	2.762	9.2	19.1
2 11	7 19.80	+ 2 14.7	1.888	2.751	12.0	19.2
2 21	7 14.59	+ 2 49.7	1.952	2.739	14.9	19.4
306696 2000 VX_{1}			1 14.9 319°.28		19°.1/ 4.1 16	
12 13	8 23.54	+51 32.7	1.030	1.859	22.2	20.4
12 23	8 18.86	+55 7.0	0.991	1.853	20.2	20.2
1 2	8 6.93	+58 15.7	0.970	1.847	19.2	20.1
1 12	7 48.86	+60 32.9	0.969	1.841	19.6	20.1
1 22	7 28.17	+61 41.4	0.986	1.836	21.2	20.2
2 1	7 10.04	+61 39.5	1.019	1.831	23.6	20.4
2 11	6 58.59	+60 41.2	1.066	1.827	26.0	20.5
2 21	6 55.16	+59 4.9	1.123	1.823	28.2	20.7
239329 2007 RN_{50}			1 14.9 323°.78		4°.7/16.6 18	
12 13	8 5.35	+ 8 10.8	2.058	2.860	13.5	20.6
12 23	8 0.46	+ 7 43.9	1.974	2.854	10.6	20.4
1 2	7 53.60	+ 7 29.8	1.913	2.848	7.5	20.2
1 12	7 45.46	+ 7 29.0	1.880	2.842	5.1	20.1
1 22	7 36.92	+ 7 40.9	1.874	2.836	5.2	20.1
2 1	7 28.97	+ 8 3.5	1.897	2.830	7.8	20.2
2 11	7 22.53	+ 8 33.5	1.946	2.825	11.0	20.4
2 21	7 18.21	+ 9 7.6	2.018	2.820	13.9	20.6
15011 1998 QM_{92}			1 14.9 61°.28		0°.6/15.1 18	
12 13	8 13.04	+19 23.2	1.486	2.322	16.1	17.9
12 23	8 6.33	+19 24.9	1.442	2.350	11.7	17.7
1 2	7 56.98	+19 33.2	1.420	2.379	6.8	17.5
1 12	7 46.18	+19 44.5	1.425	2.407	1.7	17.2
1 22	7 35.33	+19 55.5	1.458	2.435	3.6	17.4
2 1	7 25.84	+20 4.1	1.519	2.463	8.3	17.7
2 11	7 18.79	+20 9.1	1.605	2.491	12.5	18.1
2 21	7 14.72	+20 10.4	1.713	2.519	15.8	18.3
55256 2001 RZ_{119}			1 14.9 45°.79		0°.5/15.1 18	
12 13	8 5.92	+17 46.3	2.015	2.844	12.7	18.4
12 23	8 0.87	+18 16.5	1.950	2.856	9.3	18.2
1 2	7 53.80	+18 54.4	1.910	2.867	5.5	18.0
1 12	7 45.49	+19 36.5	1.897	2.879	1.4	17.8
1 22	7 36.90	+20 19.1	1.915	2.891	2.9	17.9
2 1	7 29.06	+20 58.8	1.961	2.904	6.9	18.2
2 11	7 22.86	+21 33.1	2.034	2.916	10.4	18.4
2 21	7 18.90	+22 1.0	2.130	2.929	13.4	18.7
324057 2005 VG_{58}			1 14.9 277°.39		5°.4/16.5 18	
12 13	8 7.93	+ 7 27.0	1.951	2.749	14.3	20.7
12 23	8 2.58	+ 6 49.9	1.853	2.730	11.4	20.4
1 2	7 54.97	+ 6 25.8	1.779	2.710	8.3	20.2
1 12	7 45.81	+ 6 16.2	1.731	2.690	5.8	20.0
1 22	7 36.03	+ 6 21.2	1.712	2.670	5.9	20.0
2 1	7 26.78	+ 6 39.2	1.720	2.650	8.7	20.1
2 11	7 19.11	+ 7 7.2	1.755	2.630	12.2	20.3
2 21	7 13.78	+ 7 41.4	1.811	2.610	15.4	20.4
33585 1999 JC_{38}			1 14.9 331°.40		0°.7/15.1 18	
12 13	8 6.47	+19 51.1	1.800	2.637	13.6	17.9
12 23	8 1.67	+19 41.2	1.712	2.622	10.1	17.6
1 2	7 54.48	+19 36.1	1.648	2.607	6.0	17.3
1 12	7 45.70	+19 33.7	1.611	2.593	1.6	17.0
1 22	7 36.39	+19 32.0	1.603	2.580	3.3	17.1
2 1	7 27.80	+19 29.3	1.622	2.567	7.8	17.4
2 11	7 21.04	+19 24.7	1.667	2.555	12.0	17.6
2 21	7 16.85	+19 17.9	1.734	2.544	15.5	17.8
519227 2010 VF_{62}			1 14.9 24°.82		0°.7/15.1 18	
12 13	8 8.65	+19 53.9	1.285	2.137	17.1	20.2
12 23	8 3.63	+19 43.3	1.232	2.149	12.6	20.0
1 2	7 55.67	+19 39.5	1.201	2.163	7.4	19.7
1 12	7 45.94	+19 39.6	1.195	2.177	1.9	19.4
1 22	7 35.96	+19 40.7	1.215	2.193	3.9	19.6
2 1	7 27.32	+19 40.7	1.261	2.209	9.2	19.9
2 11	7 21.24	+19 38.3	1.330	2.227	13.7	20.2
2 21	7 18.37	+19 33.2	1.419	2.245	17.5	20.5

43331 2000 PS_6 1 14.9 338.°84 17.°0/25.3 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.85	−16 9.8	1.061	1.799	27.3	17.9
12 23	8 3.12	−16 22.4	0.991	1.793	24.7	17.7
1 2	7 55.87	−15 39.3	0.933	1.788	21.7	17.5
1 12	7 46.09	−13 49.8	0.891	1.784	18.8	17.3
1 22	7 35.35	−10 52.1	0.869	1.780	17.1	17.2
2 1	7 25.59	− 6 56.8	0.868	1.777	17.5	17.2
2 11	7 18.60	− 2 27.1	0.889	1.775	19.9	17.3
2 21	7 15.48	+ 2 10.1	0.932	1.774	23.3	17.5

300368 2007 RN_{120} 1 14.9 41.°34 16.°9/25.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.51	−17 5.7	1.352	2.056	23.8	19.4
12 23	8 1.91	−18 30.7	1.309	2.074	21.7	19.3
1 2	7 54.63	−19 13.5	1.281	2.093	19.5	19.2
1 12	7 45.71	−19 7.4	1.270	2.112	17.8	19.2
1 22	7 36.49	−18 11.5	1.277	2.133	16.9	19.2
2 1	7 28.40	−16 31.0	1.304	2.153	17.1	19.2
2 11	7 22.61	−14 17.6	1.351	2.175	18.2	19.4
2 21	7 19.78	−11 45.1	1.416	2.197	19.8	19.6

132198 2002 EX_{44} 1 14.9 341.°21 0.°0/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.59	+20 19.8	1.263	2.118	17.2	20.1
12 23	8 4.02	+20 29.6	1.192	2.110	12.8	19.9
1 2	7 56.18	+20 47.4	1.141	2.103	7.5	19.5
1 12	7 46.13	+21 9.1	1.115	2.097	1.7	19.2
1 22	7 35.39	+21 30.0	1.114	2.091	4.2	19.3
2 1	7 25.75	+21 46.3	1.139	2.087	9.9	19.6
2 11	7 18.74	+21 56.1	1.186	2.083	15.0	19.9
2 21	7 15.25	+21 59.2	1.253	2.080	19.3	20.2

402471 2006 BM_{201} 1 14.9 275.°95 2.°5/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.58	+25 51.9	1.539	2.382	15.3	21.3
12 23	8 6.73	+26 20.8	1.454	2.367	11.3	21.0
1 2	7 57.72	+26 51.8	1.393	2.352	6.8	20.7
1 12	7 46.49	+27 18.7	1.357	2.337	2.8	20.4
1 22	7 34.47	+27 36.0	1.349	2.321	5.0	20.5
2 1	7 23.35	+27 40.6	1.369	2.306	9.8	20.7
2 11	7 14.66	+27 32.5	1.412	2.290	14.4	21.0
2 21	7 9.33	+27 14.2	1.477	2.275	18.3	21.2

80787 2000 CM_{83} 1 14.9 153.°11 1.°8/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.94	+25 23.0	2.240	3.064	11.8	19.8
12 23	8 5.16	+25 53.7	2.169	3.073	8.6	19.6
1 2	7 56.28	+26 25.2	2.125	3.081	5.1	19.4
1 12	7 46.09	+26 53.1	2.110	3.089	2.0	19.2
1 22	7 35.59	+27 14.0	2.125	3.096	3.6	19.3
2 1	7 25.89	+27 26.0	2.171	3.103	7.1	19.6
2 11	7 17.91	+27 28.9	2.245	3.108	10.4	19.8
2 21	7 12.28	+27 24.0	2.341	3.114	13.1	20.0

396003 2013 BQ_{58} 1 14.9 91.°89 1.°9/15.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.96	+14 29.9	1.515	2.343	16.3	21.6
12 23	8 5.69	+14 56.5	1.459	2.361	12.1	21.4
1 2	7 56.76	+15 36.3	1.426	2.380	7.4	21.2
1 12	7 46.20	+16 25.1	1.419	2.399	2.7	20.9
1 22	7 35.36	+17 17.8	1.440	2.417	3.8	21.1
2 1	7 25.64	+18 9.3	1.490	2.434	8.4	21.4
2 11	7 18.22	+18 55.8	1.565	2.452	12.7	21.7
2 21	7 13.76	+19 35.4	1.662	2.469	16.2	21.9

142329 2002 RW_{182} 1 14.9 104.°27 3.°0/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.96	+29 50.8	1.805	2.634	14.0	20.5
12 23	8 9.08	+29 51.8	1.744	2.648	10.3	20.3
1 2	7 58.59	+29 47.8	1.708	2.662	6.4	20.1
1 12	7 46.60	+29 34.4	1.700	2.676	3.1	19.9
1 22	7 34.48	+29 9.3	1.721	2.690	4.6	20.0
2 1	7 23.63	+28 33.0	1.772	2.703	8.4	20.3
2 11	7 15.19	+27 48.2	1.849	2.716	12.1	20.5
2 21	7 9.72	+26 58.5	1.948	2.728	15.2	20.8

136627 1994 PM_{19} 1 14.9 173.°88 0.°2/15.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.57	+19 20.4	3.043	3.858	9.3	21.6
12 23	8 0.08	+19 36.3	2.962	3.860	6.8	21.4
1 2	7 53.17	+19 56.0	2.907	3.862	4.0	21.2
1 12	7 45.38	+20 17.5	2.882	3.864	1.0	21.0
1 22	7 37.35	+20 38.8	2.889	3.865	2.2	21.1
2 1	7 29.77	+20 58.0	2.928	3.866	5.1	21.3
2 11	7 23.29	+21 14.2	2.995	3.867	7.8	21.5
2 21	7 18.38	+21 26.8	3.088	3.867	10.1	21.6

210161 2006 SG_{316} 1 14.9 239.°60 2.°6/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.35	+28 37.5	2.554	3.383	10.4	20.7
12 23	8 1.78	+29 15.1	2.473	3.377	7.7	20.6
1 2	7 54.33	+29 51.8	2.417	3.371	4.8	20.4
1 12	7 45.66	+30 23.7	2.391	3.366	2.7	20.2
1 22	7 36.63	+30 47.3	2.395	3.360	4.0	20.3
2 1	7 28.16	+31 0.6	2.429	3.354	6.9	20.5
2 11	7 21.13	+31 3.5	2.490	3.347	9.7	20.6
2 21	7 16.13	+30 57.1	2.575	3.341	12.2	20.8

15353 Meucci 1 14.9 74.°69 1.°4/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 13.95	+21 54.7	1.376	2.219	16.7	18.0
12 23	8 7.38	+22 41.8	1.330	2.243	12.2	17.8
1 2	7 57.81	+23 34.6	1.306	2.266	7.0	17.6
1 12	7 46.45	+24 26.2	1.308	2.289	1.9	17.3
1 22	7 34.87	+25 10.1	1.338	2.313	4.4	17.5
2 1	7 24.71	+25 42.4	1.395	2.336	9.3	17.9
2 11	7 17.23	+26 2.3	1.477	2.358	13.6	18.2
2 21	7 13.07	+26 11.3	1.579	2.381	17.2	18.5

521976 2015 VX_{162} 1 14.9 8.°35 1.°1/14.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.12	+20 9.9	1.362	2.210	16.5	21.0
12 23	8 4.24	+21 8.7	1.294	2.211	12.1	20.7
1 2	7 56.25	+22 18.4	1.250	2.211	7.1	20.4
1 12	7 46.17	+23 31.9	1.230	2.212	1.8	20.1
1 22	7 35.44	+24 41.3	1.238	2.214	4.4	20.3
2 1	7 25.74	+25 39.9	1.272	2.216	9.7	20.6
2 11	7 18.53	+26 24.6	1.331	2.218	14.4	20.9
2 21	7 14.68	+26 55.1	1.409	2.220	18.4	21.1

104533 2000 GK_{54} 1 14.9 173.°40 0.°9/15.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.98	+17 1.7	2.987	3.797	9.5	20.9
12 23	8 0.39	+17 13.5	2.905	3.800	7.0	20.7
1 2	7 53.36	+17 30.3	2.849	3.802	4.2	20.6
1 12	7 45.44	+17 50.4	2.824	3.804	1.4	20.3
1 22	7 37.28	+18 12.0	2.830	3.806	2.2	20.4
2 1	7 29.57	+18 33.3	2.868	3.807	5.2	20.6
2 11	7 22.98	+18 52.7	2.934	3.807	7.9	20.8
2 21	7 17.96	+19 9.6	3.026	3.807	10.2	21.0

485529 2011 UL_{45} 1 14.9 155.°42 3.°0/16.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.25	+10 36.4	1.884	2.690	14.4	22.5
12 23	8 4.18	+10 59.3	1.809	2.697	11.0	22.3
1 2	7 55.83	+11 36.7	1.759	2.704	7.1	22.1
1 12	7 46.03	+12 26.4	1.736	2.710	3.6	21.9
1 22	7 35.82	+13 24.6	1.743	2.715	4.0	21.9
2 1	7 26.36	+14 26.4	1.779	2.720	7.6	22.2
2 11	7 18.69	+15 27.5	1.842	2.724	11.4	22.4
2 21	7 13.48	+16 24.5	1.929	2.727	14.6	22.6

96455 1998 HQ_{21} 1 14.9 320.°04 0.°4/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.17	+21 26.3	1.355	2.206	16.5	19.9
12 23	8 4.41	+21 37.1	1.275	2.192	12.2	19.6
1 2	7 56.44	+21 54.2	1.216	2.178	7.2	19.2
1 12	7 46.23	+22 13.5	1.183	2.165	1.7	18.9
1 22	7 35.25	+22 30.4	1.175	2.152	4.2	19.0
2 1	7 25.22	+22 41.3	1.194	2.140	9.8	19.3
2 11	7 17.70	+22 45.0	1.236	2.129	14.9	19.5
2 21	7 13.61	+22 41.8	1.298	2.119	19.1	19.8

48265 2001 YZ_{15} 1 14.9 202.°98 0.°5/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.86	+22 1.8	2.871	3.692	9.6	20.3
12 23	8 0.43	+22 23.7	2.786	3.688	7.0	20.1
1 2	7 53.45	+22 48.2	2.727	3.685	4.0	19.9
1 12	7 45.47	+23 13.0	2.699	3.681	1.0	19.6
1 22	7 37.20	+23 35.4	2.702	3.676	2.4	19.8
2 1	7 29.40	+23 53.8	2.735	3.672	5.5	20.0
2 11	7 22.77	+24 7.1	2.797	3.667	8.4	20.1
2 21	7 17.83	+24 15.2	2.884	3.662	10.8	20.3

376425 2012 GB_{35} 1 14.9 203.°96 1.°3/14.3 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.70	+24 10.0	2.347	3.172	11.3	22.4
12 23	8 3.56	+24 34.6	2.264	3.168	8.3	22.2
1 2	7 55.40	+25 1.0	2.206	3.164	4.9	21.9
1 12	7 45.93	+25 25.6	2.178	3.159	1.6	21.7
1 22	7 36.08	+25 45.2	2.181	3.153	3.2	21.8
2 1	7 26.85	+25 57.8	2.213	3.148	6.8	22.0
2 11	7 19.17	+26 2.7	2.274	3.141	10.1	22.2
2 21	7 13.67	+26 0.7	2.358	3.135	12.9	22.4

345109 2005 PS_{10} 1 14.9 102.°10 0.°6/14.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.11	+19 41.9	1.489	2.324	16.1	21.5
12 23	8 7.42	+20 34.4	1.434	2.343	11.8	21.2
1 2	7 57.84	+21 35.3	1.403	2.362	6.8	21.0
1 12	7 46.49	+22 38.0	1.399	2.381	1.6	20.7
1 22	7 34.81	+23 35.9	1.423	2.399	4.0	20.9
2 1	7 24.35	+24 24.0	1.476	2.417	8.9	21.3
2 11	7 16.37	+25 0.3	1.554	2.434	13.2	21.6
2 21	7 11.57	+25 25.1	1.653	2.450	16.7	21.8

207569 2006 PP_8 1 14.9 224.°52 0.°0/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.14	+20 9.7	1.954	2.780	13.2	21.6
12 23	8 4.97	+20 27.3	1.867	2.771	9.8	21.4
1 2	7 56.39	+20 50.6	1.804	2.762	5.7	21.1
1 12	7 46.18	+21 16.1	1.770	2.752	1.3	20.8
1 22	7 35.44	+21 40.2	1.766	2.742	3.2	20.9
2 1	7 25.38	+22 0.3	1.791	2.731	7.6	21.2
2 11	7 17.14	+22 14.7	1.843	2.720	11.6	21.4
2 21	7 11.46	+22 23.3	1.918	2.708	15.0	21.6

207389 2005 VK_7 1 14.9 324.°21 1.°7/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 23.13	+24 4.1	1.031	1.880	20.6	18.8
12 23	8 15.22	+22 23.8	0.959	1.874	15.5	18.4
1 2	8 2.90	+20 34.8	0.908	1.869	9.3	18.1
1 12	7 47.70	+18 38.2	0.882	1.864	2.7	17.7
1 22	7 31.92	+16 38.9	0.882	1.859	5.5	17.8
2 1	7 18.04	+14 45.4	0.909	1.854	12.2	18.2
2 11	7 7.99	+13 4.7	0.958	1.851	18.2	18.5
2 21	7 2.57	+11 40.3	1.025	1.847	23.0	18.8

53097 1998 YS_{17} 1 14.9 75.°45 0.°5/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.27	+16 1.8	1.689	2.517	14.9	17.9
12 23	8 4.30	+17 4.3	1.635	2.539	10.9	17.7
1 2	7 55.92	+18 18.2	1.605	2.562	6.4	17.5
1 12	7 46.05	+19 37.9	1.603	2.584	1.6	17.2
1 22	7 35.90	+20 56.6	1.630	2.607	3.3	17.4
2 1	7 26.74	+22 8.6	1.686	2.629	7.8	17.7
2 11	7 19.63	+23 10.3	1.769	2.651	11.8	18.0
2 21	7 15.21	+24 0.4	1.875	2.672	15.0	18.2

326476 2002 AQ_{173} 1 14.9 351.°01 0.°3/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.88	+17 29.4	1.709	2.544	14.3	20.2
12 23	8 2.06	+18 12.4	1.633	2.542	10.6	20.0
1 2	7 54.77	+19 6.3	1.582	2.540	6.2	19.7
1 12	7 45.83	+20 6.5	1.557	2.539	1.5	19.4
1 22	7 36.37	+21 7.7	1.561	2.538	3.4	19.5
2 1	7 27.67	+22 4.7	1.593	2.537	8.0	19.8
2 11	7 20.88	+22 53.9	1.650	2.536	12.2	20.0
2 21	7 16.76	+23 33.6	1.730	2.536	15.7	20.3

343498 2010 EH_{105} 1 14.9 158.°74 2.°8/16.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.02	+10 17.1	2.530	3.329	11.4	20.9
12 23	7 59.91	+10 28.8	2.449	3.332	8.7	20.8
1 2	7 53.18	+10 51.1	2.393	3.335	5.8	20.6
1 12	7 45.43	+11 23.1	2.367	3.337	3.2	20.4
1 22	7 37.40	+12 2.3	2.370	3.339	3.4	20.4
2 1	7 29.86	+12 46.1	2.403	3.341	6.1	20.6
2 11	7 23.57	+13 31.4	2.465	3.343	9.0	20.8
2 21	7 19.03	+14 15.7	2.551	3.345	11.6	21.0

212038 2005 CW_{52} 1 14.9 246.°58 2.°1/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.65	+24 56.9	1.819	2.653	13.6	20.6
12 23	8 5.62	+25 33.1	1.733	2.642	10.1	20.4
1 2	7 56.90	+26 12.2	1.672	2.630	6.0	20.1
1 12	7 46.34	+26 48.7	1.639	2.618	2.3	19.8
1 22	7 35.13	+27 17.7	1.634	2.606	4.3	19.9
2 1	7 24.67	+27 35.9	1.659	2.593	8.6	20.2
2 11	7 16.24	+27 42.7	1.709	2.580	12.6	20.4
2 21	7 10.67	+27 39.4	1.781	2.567	16.1	20.6

37143 2000 VG_{44} 1 14.9 152.°76 1.°4/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.35	+23 44.8	1.931	2.765	13.0	19.9
12 23	8 3.62	+24 12.6	1.857	2.766	9.5	19.7
1 2	7 55.57	+24 43.2	1.807	2.766	5.6	19.4
1 12	7 46.01	+25 12.3	1.785	2.767	1.7	19.2
1 22	7 36.04	+25 36.0	1.793	2.767	3.7	19.3
2 1	7 26.88	+25 51.7	1.830	2.767	7.7	19.6
2 11	7 19.58	+25 58.7	1.892	2.768	11.4	19.8
2 21	7 14.82	+25 57.7	1.978	2.768	14.6	20.0

280655 2005 CS_{39} 1 14.9 215.°87 2.°4/16.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.59	+11 49.0	2.358	3.164	11.9	21.0
12 23	8 0.49	+12 8.9	2.272	3.161	9.0	20.8
1 2	7 53.60	+12 39.8	2.212	3.158	5.8	20.6
1 12	7 45.56	+13 20.0	2.180	3.155	2.9	20.4
1 22	7 37.14	+14 6.6	2.179	3.152	3.2	20.4
2 1	7 29.23	+14 56.5	2.207	3.148	6.4	20.6
2 11	7 22.65	+15 46.3	2.264	3.144	9.6	20.8
2 21	7 17.99	+16 33.4	2.345	3.140	12.4	21.0

321206 2008 YK_{40} 1 14.9 210.°79 0.°6/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.40	+17 56.8	2.150	2.966	12.5	22.0
12 23	8 4.97	+18 17.1	2.060	2.959	9.3	21.7
1 2	7 56.33	+18 44.4	1.995	2.950	5.5	21.5
1 12	7 46.20	+19 15.8	1.959	2.941	1.5	21.2
1 22	7 35.56	+19 48.0	1.954	2.931	3.0	21.3
2 1	7 25.52	+20 18.0	1.980	2.919	7.1	21.5
2 11	7 17.10	+20 43.7	2.033	2.908	10.8	21.7
2 21	7 11.01	+21 4.3	2.110	2.895	14.0	21.9

346933 2010 AS_{37} 1 14.9 5.°43 0.°4/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.04	+19 23.4	1.284	2.133	17.3	20.2
12 23	8 5.04	+20 4.8	1.217	2.133	12.8	19.9
1 2	7 56.79	+20 57.6	1.172	2.133	7.5	19.6
1 12	7 46.35	+21 55.5	1.152	2.134	1.7	19.3
1 22	7 35.25	+22 51.4	1.158	2.135	4.3	19.4
2 1	7 25.26	+23 39.3	1.190	2.136	9.9	19.8
2 11	7 17.92	+24 15.9	1.245	2.137	14.9	20.1
2 21	7 14.08	+24 40.8	1.321	2.139	19.0	20.3

458220 2010 RX_{135} 1 14.9 139.°73 5.°2/17.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 8.27	+ 5 46.5	1.948	2.739	14.6	21.8
12 23	8 2.63	+ 5 36.5	1.875	2.746	11.5	21.6
1 2	7 54.91	+ 5 42.9	1.824	2.753	8.3	21.4
1 12	7 45.86	+ 6 6.0	1.800	2.759	5.7	21.2
1 22	7 36.47	+ 6 43.6	1.805	2.764	5.6	21.2
2 1	7 27.79	+ 7 32.4	1.838	2.770	8.1	21.4
2 11	7 20.76	+ 8 27.8	1.898	2.775	11.3	21.6
2 21	7 16.03	+ 9 25.2	1.981	2.780	14.3	21.8

517593 2014 WC_{123} 1 14.9 76.°95 3.°6/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.14	+29 29.9	1.868	2.704	13.3	21.6
12 23	8 5.06	+30 9.5	1.801	2.709	9.8	21.4
1 2	7 56.44	+30 47.0	1.760	2.714	6.2	21.2
1 12	7 46.23	+31 16.5	1.746	2.720	3.6	21.0
1 22	7 35.65	+31 33.6	1.761	2.725	5.2	21.1
2 1	7 26.04	+31 36.4	1.804	2.730	8.7	21.4
2 11	7 18.52	+31 25.8	1.872	2.735	12.1	21.6
2 21	7 13.79	+31 4.6	1.962	2.741	15.1	21.8

255889 2006 SG_{271} 1 14.9 250.°37 1.°5/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.60	+23 33.0	1.778	2.614	13.8	21.2
12 23	8 4.83	+24 5.6	1.697	2.607	10.2	21.0
1 2	7 56.43	+24 42.1	1.641	2.600	6.0	20.7
1 12	7 46.25	+25 17.5	1.612	2.593	1.9	20.4
1 22	7 35.51	+25 47.2	1.611	2.585	4.0	20.6
2 1	7 25.57	+26 7.7	1.640	2.578	8.4	20.8
2 11	7 17.65	+26 18.2	1.694	2.570	12.5	21.0
2 21	7 12.55	+26 19.6	1.769	2.562	16.0	21.2

109206 2001 QL_{82} 1 14.9 82.°18 6.°1/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.23	+37 18.2	1.787	2.613	14.2	19.4
12 23	8 9.58	+37 50.1	1.732	2.626	11.0	19.2
1 2	7 59.03	+38 11.4	1.701	2.640	7.9	19.0
1 12	7 46.79	+38 15.2	1.696	2.653	6.2	18.9
1 22	7 34.40	+37 57.9	1.720	2.666	7.2	19.0
2 1	7 23.42	+37 20.1	1.771	2.679	10.1	19.2
2 11	7 15.07	+36 26.1	1.847	2.692	13.1	19.4
2 21	7 9.96	+35 21.7	1.944	2.705	15.8	19.7

82885 2001 QC_{77} 1 14.9 146.°33 2.°3/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.11	+13 26.6	2.201	3.009	12.5	19.9
12 23	8 3.05	+13 26.4	2.127	3.018	9.4	19.7
1 2	7 55.08	+13 35.4	2.078	3.026	6.0	19.5
1 12	7 45.92	+13 52.0	2.058	3.034	2.8	19.3
1 22	7 36.47	+14 14.2	2.068	3.041	3.4	19.3
2 1	7 27.71	+14 39.5	2.108	3.047	6.7	19.5
2 11	7 20.50	+15 5.5	2.175	3.053	10.0	19.8
2 21	7 15.41	+15 30.4	2.267	3.059	12.9	20.0

460156 2014 QL_1 1 14.9 117.°52 0.°7/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.51	+23 10.3	1.965	2.791	13.1	21.8
12 23	8 6.41	+23 15.3	1.902	2.806	9.6	21.6
1 2	7 57.06	+23 21.9	1.864	2.822	5.6	21.4
1 12	7 46.37	+23 26.8	1.855	2.837	1.4	21.1
1 22	7 35.49	+23 27.4	1.876	2.851	3.3	21.3
2 1	7 25.60	+23 22.5	1.927	2.865	7.3	21.5
2 11	7 17.70	+23 12.3	2.005	2.878	10.9	21.8
2 21	7 12.36	+22 57.8	2.106	2.891	14.0	22.0

280810 2005 TT_{177} 1 14.9 131.°12 3.°5/16.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.48	+10 49.7	1.691	2.500	15.7	21.6
12 23	8 5.93	+10 57.8	1.625	2.514	11.9	21.4
1 2	7 56.92	+11 20.7	1.583	2.528	7.8	21.2
1 12	7 46.37	+11 56.4	1.568	2.541	4.1	21.0
1 22	7 35.48	+12 41.4	1.581	2.553	4.4	21.0
2 1	7 25.53	+13 31.1	1.624	2.564	8.2	21.3
2 11	7 17.65	+14 21.3	1.693	2.575	12.1	21.5
2 21	7 12.50	+15 8.7	1.784	2.585	15.5	21.8

474091 2016 KG_2 1 14.9 227.°42 3.°3/12.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.31	+30 16.7	2.701	3.526	10.0	22.0
12 23	8 2.55	+31 15.2	2.616	3.517	7.5	21.9
1 2	7 54.87	+32 12.8	2.558	3.508	4.9	21.7
1 12	7 45.92	+33 4.6	2.530	3.498	3.3	21.6
1 22	7 36.50	+33 46.5	2.532	3.488	4.5	21.6
2 1	7 27.56	+34 16.1	2.564	3.478	7.1	21.8
2 11	7 19.99	+34 32.7	2.624	3.467	9.8	21.9
2 21	7 14.42	+34 37.7	2.707	3.456	12.1	22.1

439953 2001 TV_{54} 1 14.9 83.°39 3.°0/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.85	+13 0.9	1.497	2.316	16.9	22.0
12 23	8 7.63	+13 1.3	1.451	2.348	12.6	21.8
1 2	7 57.81	+13 14.9	1.429	2.378	7.9	21.6
1 12	7 46.54	+13 39.2	1.432	2.408	3.7	21.4
1 22	7 35.20	+14 10.6	1.464	2.438	4.3	21.5
2 1	7 25.18	+14 45.0	1.525	2.467	8.5	21.9
2 11	7 17.57	+15 18.9	1.611	2.495	12.5	22.2
2 21	7 12.93	+15 50.0	1.718	2.523	15.9	22.4

160792 2000 TS_{50} 1 14.9 126°.63 1°.2/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 11.95	+15 41.2	1.881	2.698	14.0	20.7
12 23	8 5.39	+16 13.9	1.816	2.715	10.4	20.5
1 2	7 56.54	+16 56.5	1.777	2.731	6.2	20.3
1 12	7 46.28	+17 45.4	1.765	2.746	2.0	20.1
1 22	7 35.71	+18 36.0	1.784	2.760	3.2	20.2
2 1	7 26.02	+19 24.2	1.832	2.774	7.4	20.5
2 11	7 18.23	+20 7.2	1.908	2.787	11.2	20.7
2 21	7 12.97	+20 43.4	2.007	2.799	14.3	21.0

401819 1995 UD_{43} 1 14.9 137°.68 0°.4/15.1 18

12 13	8 11.88	+18 57.5	2.004	2.825	13.1	22.2
12 23	8 5.25	+19 14.4	1.936	2.838	9.6	22.0
1 2	7 56.43	+19 37.1	1.893	2.850	5.6	21.8
1 12	7 46.25	+20 2.6	1.879	2.861	1.4	21.5
1 22	7 35.79	+20 27.4	1.895	2.871	3.0	21.7
2 1	7 26.17	+20 49.1	1.941	2.881	7.1	22.0
2 11	7 18.38	+21 6.1	2.014	2.891	10.8	22.2
2 21	7 13.03	+21 18.1	2.111	2.899	13.8	22.4

245088 2004 PJ_{7} 1 14.9 172°.00 1°.1/14.6 18

12 13	8 14.70	+23 30.8	1.861	2.688	13.7	21.0
12 23	8 7.58	+23 45.8	1.787	2.692	10.1	20.8
1 2	7 57.91	+24 2.8	1.737	2.695	5.9	20.5
1 12	7 46.61	+24 17.8	1.716	2.697	1.6	20.2
1 22	7 34.91	+24 27.1	1.724	2.699	3.6	20.4
2 1	7 24.15	+24 29.0	1.762	2.700	8.0	20.6
2 11	7 15.49	+24 23.4	1.827	2.700	11.9	20.9
2 21	7 9.62	+24 11.7	1.915	2.700	15.2	21.1

261597 2005 XU_{53} 1 14.9 173°.28 2°.4/13.9 18

12 13	8 11.04	+27 10.4	2.250	3.076	11.7	21.4
12 23	8 4.64	+27 45.0	2.175	3.079	8.6	21.2
1 2	7 56.10	+28 19.4	2.125	3.081	5.2	21.0
1 12	7 46.19	+28 49.0	2.105	3.083	2.5	20.8
1 22	7 35.93	+29 10.1	2.116	3.084	4.0	20.9
2 1	7 26.39	+29 20.7	2.156	3.084	7.3	21.1
2 11	7 18.57	+29 20.9	2.223	3.085	10.5	21.3
2 21	7 13.09	+29 12.2	2.314	3.084	13.3	21.5

461503 2003 FJ_{122} 1 14.9 137°.81 2°.6/16.2 18

12 13	8 9.01	+11 41.1	2.656	3.450	11.0	21.9
12 23	8 2.64	+11 33.3	2.585	3.466	8.4	21.7
1 2	7 54.71	+11 33.9	2.540	3.481	5.5	21.6
1 12	7 45.85	+11 41.9	2.525	3.496	3.0	21.4
1 22	7 36.81	+11 55.9	2.541	3.510	3.3	21.5
2 1	7 28.37	+12 14.2	2.588	3.523	5.9	21.7
2 11	7 21.23	+12 34.9	2.664	3.535	8.7	21.9
2 21	7 15.87	+12 56.1	2.765	3.547	11.1	22.0

223266 2003 GO_{10} 1 14.9 245°.11 3°.6/16.6 18

12 13	8 7.02	+ 9 26.6	2.138	2.940	13.1	20.7
12 23	8 1.76	+ 9 29.3	2.046	2.929	10.2	20.4
1 2	7 54.48	+ 9 45.1	1.979	2.919	6.9	20.2
1 12	7 45.85	+10 13.3	1.939	2.908	4.1	20.0
1 22	7 36.73	+10 51.8	1.928	2.896	4.3	20.0
2 1	7 28.13	+11 37.6	1.947	2.885	7.3	20.2
2 11	7 20.99	+12 26.7	1.993	2.873	10.7	20.4
2 21	7 15.97	+13 15.9	2.062	2.861	13.8	20.5

210451 2806 P–L 1 14.9 110°.42 4°.2/13.4 18

12 13	8 15.58	+31 8.7	1.811	2.642	13.9	20.8
12 23	8 8.28	+31 53.6	1.755	2.659	10.3	20.6
1 2	7 58.30	+32 34.1	1.724	2.675	6.7	20.4
1 12	7 46.70	+33 3.6	1.721	2.691	4.3	20.3
1 22	7 34.85	+33 17.6	1.747	2.707	5.7	20.4
2 1	7 24.19	+33 14.9	1.801	2.722	9.1	20.7
2 11	7 15.89	+32 57.3	1.881	2.736	12.4	20.9
2 21	7 10.60	+32 28.8	1.982	2.750	15.3	21.1

184109 2004 HZ_{30} 1 14.9 295°.35 4°.0/13.6 18

12 13	8 11.99	+30 10.3	1.692	2.532	14.2	20.3
12 23	8 6.16	+30 43.3	1.610	2.519	10.7	20.0
1 2	7 57.36	+31 13.9	1.551	2.505	6.9	19.8
1 12	7 46.54	+31 35.6	1.518	2.492	4.1	19.6
1 22	7 35.07	+31 43.2	1.514	2.479	5.7	19.6
2 1	7 24.52	+31 34.5	1.537	2.465	9.7	19.8
2 11	7 16.27	+31 10.8	1.584	2.452	13.7	20.0
2 21	7 11.19	+30 35.8	1.653	2.440	17.1	20.2

14653 1998 YV_{11} 1 14.9 177°.50 2°.4/13.7 18

12 13	8 14.58	+26 16.5	2.242	3.062	11.9	19.2
12 23	8 7.29	+27 9.9	2.164	3.065	8.8	19.0
1 2	7 57.70	+28 4.5	2.113	3.068	5.3	18.8
1 12	7 46.59	+28 54.6	2.093	3.069	2.5	18.6
1 22	7 35.02	+29 35.5	2.103	3.070	4.1	18.7
2 1	7 24.16	+30 4.3	2.144	3.069	7.6	18.9
2 11	7 15.08	+30 20.5	2.213	3.067	10.9	19.1
2 21	7 8.47	+30 25.8	2.306	3.065	13.7	19.3

389902 2012 TA_{37} 1 14.9 93°.49 4°.0/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 5.06	+ 7 30.9	2.387	3.179	12.2	21.3
12 23	7 59.99	+ 7 25.6	2.313	3.187	9.5	21.2
1 2	7 53.28	+ 7 32.7	2.263	3.195	6.7	21.0
1 12	7 45.55	+ 7 52.0	2.241	3.203	4.4	20.9
1 22	7 37.56	+ 8 21.7	2.248	3.211	4.4	20.9
2 1	7 30.14	+ 8 59.4	2.285	3.218	6.7	21.0
2 11	7 24.03	+ 9 41.7	2.349	3.226	9.4	21.2
2 21	7 19.75	+10 25.4	2.438	3.234	12.0	21.4

369757 2012 FP_{72} 1 14.9 298°.00 2°.5/15.7 18

12 13	8 8.46	+15 8.9	1.695	2.523	14.8	20.6
12 23	8 3.38	+14 56.2	1.601	2.503	11.2	20.3
1 2	7 55.70	+14 52.9	1.530	2.483	7.1	20.0
1 12	7 46.17	+14 58.2	1.485	2.463	3.1	19.7
1 22	7 35.94	+15 10.1	1.468	2.443	4.1	19.7
2 1	7 26.34	+15 26.1	1.479	2.423	8.5	20.0
2 11	7 18.63	+15 43.8	1.515	2.403	12.9	20.2
2 21	7 13.67	+16 1.0	1.573	2.384	16.8	20.4

317374 2002 NP_{70} 1 14.9 51°.06 3°.5/16.0 17

12 13	8 12.36	+13 9.7	1.324	2.155	17.9	19.9
12 23	8 6.00	+12 51.8	1.284	2.186	13.4	19.7
1 2	7 56.93	+12 48.3	1.266	2.218	8.5	19.5
1 12	7 46.36	+12 57.4	1.274	2.249	4.2	19.4
1 22	7 35.79	+13 15.9	1.308	2.281	4.8	19.5
2 1	7 26.65	+13 40.2	1.368	2.313	9.0	19.8
2 11	7 20.05	+14 6.5	1.454	2.345	13.2	20.1
2 21	7 16.52	+14 31.9	1.560	2.377	16.6	20.4

13919 1984 SO_{4} 1 14.9 121°.04 0°.5/15.1 18 R

12 13	8 14.42	+19 55.8	1.572	2.404	15.6	17.5
12 23	8 7.57	+19 55.6	1.508	2.415	11.5	17.3
1 2	7 57.96	+20 1.0	1.467	2.425	6.7	17.1
1 12	7 46.64	+20 8.8	1.454	2.436	1.7	16.8
1 22	7 35.00	+20 15.7	1.469	2.445	3.6	16.9
2 1	7 24.52	+20 19.7	1.512	2.455	8.5	17.2
2 11	7 16.40	+20 20.1	1.581	2.464	12.8	17.5
2 21	7 11.34	+20 16.9	1.671	2.473	16.4	17.8

391786 2008 QF_{45} 1 14.9 188°.52 3°.4/16.0 18

12 13	8 12.43	+12 24.9	1.746	2.559	15.1	21.5
12 23	8 6.00	+12 12.4	1.667	2.558	11.6	21.3
1 2	7 57.06	+12 11.7	1.611	2.557	7.5	21.0
1 12	7 46.46	+12 21.9	1.582	2.556	3.9	20.8
1 22	7 35.36	+12 40.9	1.582	2.554	4.5	20.8
2 1	7 25.08	+13 5.9	1.611	2.551	8.4	21.0
2 11	7 16.78	+13 33.9	1.666	2.547	12.4	21.3
2 21	7 11.19	+14 2.0	1.743	2.543	15.9	21.5

81773 2000 JV_{69} 1 14.9 173°.86 2°.2/16.2 18

12 13	8 8.30	+11 41.7	2.187	2.992	12.7	20.0
12 23	8 2.60	+12 17.4	2.105	2.994	9.6	19.8
1 2	7 54.93	+13 5.7	2.049	2.996	6.1	19.6
1 12	7 45.97	+14 4.0	2.022	2.998	2.8	19.4
1 22	7 36.59	+15 8.5	2.025	2.999	3.3	19.4
2 1	7 27.79	+16 14.7	2.058	2.999	6.7	19.7
2 11	7 20.49	+17 18.7	2.120	2.999	10.2	19.9
2 21	7 15.30	+18 17.5	2.206	2.999	13.2	20.1

381193 2007 QP_{15} 1 14.9 100°.99 3°.5/16.9 18

12 13	8 5.68	+ 8 26.4	2.348	3.143	12.3	21.3
12 23	8 0.47	+ 8 36.0	2.276	3.155	9.5	21.1
1 2	7 53.57	+ 8 58.2	2.230	3.166	6.5	20.9
1 12	7 45.64	+ 9 31.9	2.211	3.177	3.9	20.8
1 22	7 37.45	+10 14.9	2.222	3.188	4.0	20.8
2 1	7 29.86	+11 3.7	2.262	3.199	6.5	21.0
2 11	7 23.61	+11 55.1	2.331	3.210	9.4	21.2
2 21	7 19.24	+12 45.8	2.424	3.220	12.0	21.4

111380 2001 XB_{151} 1 14.9 71°.83 1°.0/15.3 18

12 13	8 9.20	+17 30.2	1.780	2.610	14.1	19.6
12 23	8 3.52	+17 39.8	1.715	2.620	10.4	19.4
1 2	7 55.53	+17 57.4	1.674	2.631	6.2	19.2
1 12	7 46.11	+18 20.0	1.660	2.641	1.9	18.9
1 22	7 36.38	+18 44.6	1.675	2.652	3.3	19.1
2 1	7 27.55	+19 8.0	1.718	2.662	7.6	19.3
2 11	7 20.65	+19 28.2	1.788	2.673	11.5	19.6
2 21	7 16.31	+19 44.3	1.880	2.683	14.7	19.8

312527 2009 DM_{106} 1 14.9 263°.70 1°.3/14.4 18

12 13	8 11.14	+22 39.7	1.756	2.591	14.0	21.5
12 23	8 5.42	+23 14.8	1.665	2.574	10.4	21.2
1 2	7 56.93	+23 55.4	1.598	2.558	6.1	20.9
1 12	7 46.50	+24 36.7	1.559	2.540	1.8	20.6
1 22	7 35.30	+25 13.2	1.548	2.523	4.0	20.7
2 1	7 24.78	+25 41.2	1.566	2.505	8.7	21.0
2 11	7 16.26	+25 58.9	1.610	2.487	13.0	21.2
2 21	7 10.65	+26 6.9	1.675	2.468	16.7	21.4

131763 Donátbánki 1 14.9 24°.73 0°.7/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 8.54	+18 17.2	1.135	1.993	18.5	19.6
12 23	8 4.03	+18 35.6	1.081	2.001	13.7	19.4
1 2	7 56.22	+19 5.7	1.048	2.010	8.1	19.1
1 12	7 46.31	+19 42.7	1.038	2.020	2.1	18.7
1 22	7 35.97	+20 20.7	1.053	2.031	4.3	18.9
2 1	7 26.99	+20 54.6	1.093	2.043	10.0	19.3
2 11	7 20.82	+21 21.2	1.156	2.056	15.0	19.6
2 21	7 18.21	+21 39.7	1.237	2.070	19.2	19.9

436301 2010 EP_{11} 1 14.9 276°.24 10°.5/19.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.21	−12 23.1	2.559	3.236	14.3	20.9
12 23	8 0.22	−13 40.0	2.470	3.223	12.9	20.8
1 2	7 53.52	−14 37.0	2.402	3.209	11.6	20.6
1 12	7 45.67	−15 9.9	2.356	3.196	10.7	20.6
1 22	7 37.39	−15 16.5	2.335	3.182	10.5	20.5
2 1	7 29.49	−14 57.1	2.339	3.169	11.2	20.5
2 11	7 22.76	−14 14.9	2.366	3.155	12.4	20.6
2 21	7 17.80	−13 15.0	2.413	3.142	14.0	20.7

502333 2015 BM_{176} 1 14.9 91°.67 3°.8/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 12.88	+33 4.8	2.206	3.031	11.9	20.7
12 23	8 6.03	+33 15.6	2.133	3.032	9.0	20.6
1 2	7 56.92	+33 20.2	2.084	3.033	5.9	20.4
1 12	7 46.43	+33 14.3	2.065	3.034	3.9	20.2
1 22	7 35.69	+32 55.4	2.075	3.034	5.0	20.3
2 1	7 25.88	+32 23.4	2.114	3.035	7.9	20.5
2 11	7 18.00	+31 40.4	2.180	3.036	11.0	20.7
2 21	7 12.65	+30 49.8	2.270	3.037	13.6	20.9

115107 2003 ST_{30} 1 14.9 36°.33 1°.1/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.28	+23 2.7	1.853	2.690	13.3	19.6
12 23	8 2.89	+23 26.4	1.786	2.697	9.7	19.3
1 2	7 55.19	+23 53.3	1.744	2.704	5.6	19.1
1 12	7 46.05	+24 19.4	1.729	2.711	1.6	18.9
1 22	7 36.58	+24 41.0	1.743	2.718	3.5	19.0
2 1	7 27.98	+24 55.4	1.786	2.726	7.7	19.3
2 11	7 21.28	+25 2.1	1.854	2.734	11.4	19.5
2 21	7 17.12	+25 1.5	1.945	2.742	14.6	19.8

430450 2000 SN_{232} 1 14.9 35°.11 20°.8/17.0 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 43.62	+59 8.3	0.821	1.632	27.9	20.4
12 23	8 33.23	+60 10.0	0.796	1.645	25.0	20.2
1 2	8 13.92	+60 22.3	0.784	1.660	22.5	20.2
1 12	7 50.14	+59 22.9	0.787	1.676	21.0	20.1
1 22	7 28.10	+57 7.5	0.807	1.694	21.0	20.2
2 1	7 12.44	+53 52.2	0.845	1.712	22.4	20.4
2 11	7 4.66	+50 4.3	0.901	1.732	24.6	20.6
2 21	7 3.84	+46 8.1	0.973	1.752	27.0	20.9

205736 2002 AG_{171} 1 14.9 21°.49 1°.1/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.70	+23 25.8	1.234	2.088	17.5	20.3
12 23	8 6.28	+23 28.8	1.174	2.093	12.9	20.0
1 2	7 57.51	+23 35.1	1.135	2.097	7.5	19.7
1 12	7 46.62	+23 39.9	1.121	2.103	1.9	19.4
1 22	7 35.30	+23 39.1	1.133	2.109	4.5	19.6
2 1	7 25.37	+23 30.8	1.170	2.116	10.0	19.9
2 11	7 18.30	+23 15.6	1.230	2.124	14.9	20.2
2 21	7 14.81	+22 55.0	1.310	2.132	18.9	20.5

32633 2001 RY_{93} 1 14.9 236°.90 0°.9/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.16	+22 54.8	2.535	3.360	10.6	19.4
12 23	8 1.66	+23 17.7	2.447	3.352	7.7	19.2
1 2	7 54.36	+23 43.1	2.386	3.344	4.5	19.0
1 12	7 45.87	+24 8.2	2.354	3.335	1.2	18.8
1 22	7 37.01	+24 30.0	2.352	3.327	2.8	18.9
2 1	7 28.67	+24 46.5	2.381	3.318	6.2	19.1
2 11	7 21.68	+24 56.9	2.438	3.309	9.4	19.3
2 21	7 16.63	+25 1.0	2.519	3.299	12.1	19.4

277979 2006 TG_{55} 1 14.9 41°.52 3°.9/16.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.59	+10 7.8	1.408	2.236	17.3	20.4
12 23	8 2.71	+10 22.4	1.353	2.251	13.2	20.2
1 2	7 55.20	+10 55.7	1.320	2.268	8.6	20.0
1 12	7 46.07	+11 45.1	1.311	2.285	4.6	19.8
1 22	7 36.64	+12 45.7	1.329	2.302	4.8	19.8
2 1	7 28.28	+13 51.4	1.374	2.321	8.8	20.1
2 11	7 22.15	+14 56.3	1.444	2.339	13.0	20.4
2 21	7 18.91	+15 55.9	1.535	2.358	16.6	20.7

433848 2015 BH_{272} 1 14.9 183°.29 0°.2/15.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.52	+19 6.9	2.533	3.353	10.7	21.5
12 23	8 1.12	+19 29.1	2.451	3.353	7.9	21.3
1 2	7 54.00	+19 56.4	2.396	3.353	4.6	21.1
1 12	7 45.79	+20 26.2	2.371	3.353	1.1	20.9
1 22	7 37.26	+20 55.9	2.376	3.352	2.5	21.0
2 1	7 29.26	+21 22.9	2.411	3.351	5.9	21.2
2 11	7 22.58	+21 45.9	2.475	3.350	9.1	21.4
2 21	7 17.76	+22 3.9	2.563	3.349	11.7	21.6

375455 2008 TC_{106} 1 14.9 68°.02 3°.3/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 9.89	+28 56.4	1.996	2.831	12.6	21.3
12 23	8 4.03	+29 39.8	1.933	2.841	9.3	21.1
1 2	7 55.84	+30 21.6	1.896	2.850	5.8	20.9
1 12	7 46.22	+30 56.5	1.886	2.860	3.3	20.8
1 22	7 36.28	+31 20.1	1.905	2.870	4.8	20.9
2 1	7 27.24	+31 30.4	1.953	2.879	8.1	21.1
2 11	7 20.11	+31 28.0	2.027	2.889	11.4	21.3
2 21	7 15.55	+31 15.0	2.123	2.899	14.2	21.6

162689 2000 UN_{4} 1 14.9 39°.86 1°.5/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.49	+21 58.6	1.205	2.061	17.8	19.3
12 23	8 5.33	+22 43.3	1.157	2.076	12.9	19.1
1 2	7 56.91	+23 35.0	1.130	2.092	7.5	18.8
1 12	7 46.48	+24 26.4	1.128	2.109	2.1	18.5
1 22	7 35.73	+25 10.5	1.151	2.127	4.7	18.7
2 1	7 26.40	+25 42.6	1.200	2.145	10.0	19.1
2 11	7 19.90	+26 1.6	1.272	2.164	14.7	19.4
2 21	7 16.92	+26 8.8	1.364	2.183	18.5	19.7

51059 2000 GR_{142} 1 14.9 71°.01 3°.4/16.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.82	+ 9 0.3	2.142	2.944	13.1	18.8
12 23	8 0.72	+ 9 17.8	2.075	2.958	10.0	18.6
1 2	7 53.79	+ 9 48.9	2.031	2.971	6.7	18.4
1 12	7 45.74	+10 32.1	2.016	2.985	3.9	18.3
1 22	7 37.43	+11 24.3	2.029	2.998	4.0	18.3
2 1	7 29.78	+12 21.6	2.072	3.012	6.8	18.5
2 11	7 23.61	+13 20.0	2.143	3.026	9.9	18.7
2 21	7 19.46	+14 16.2	2.238	3.039	12.7	18.9

494950 2009 PV_{9} 1 14.9 210°.46 8°.4/20.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.57	− 8 39.8	2.529	3.228	13.9	22.5
12 23	8 1.90	− 8 49.0	2.435	3.220	12.1	22.3
1 2	7 54.49	− 8 36.1	2.362	3.212	10.3	22.2
1 12	7 45.93	− 7 59.0	2.314	3.203	8.8	22.0
1 22	7 36.95	− 6 58.2	2.293	3.194	8.4	22.0
2 1	7 28.40	− 5 36.4	2.301	3.184	9.3	22.0
2 11	7 21.08	− 3 59.1	2.336	3.173	11.0	22.1
2 21	7 15.58	− 2 12.6	2.396	3.161	13.1	22.3

519157 2010 NM_{78} 1 14.9 214°.96 6°.8/19.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.70	− 7 26.0	3.238	3.936	11.2	22.7
12 23	7 58.76	− 7 39.8	3.143	3.928	9.7	22.6
1 2	7 52.52	− 7 37.3	3.070	3.919	8.2	22.5
1 12	7 45.45	− 7 17.0	3.023	3.910	7.1	22.4
1 22	7 38.11	− 6 39.2	3.004	3.901	6.8	22.4
2 1	7 31.08	− 5 45.5	3.014	3.891	7.5	22.4
2 11	7 24.97	− 4 39.4	3.051	3.880	8.9	22.5
2 21	7 20.21	− 3 25.0	3.113	3.869	10.5	22.6

104773 2000 HE_{29} 1 14.9 206°.83 1°.1/15.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.01	+15 58.5	2.189	3.005	12.3	20.6
12 23	8 3.22	+16 26.2	2.102	3.000	9.2	20.4
1 2	7 55.37	+17 2.9	2.041	2.995	5.6	20.2
1 12	7 46.14	+17 45.8	2.008	2.989	1.8	19.9
1 22	7 36.45	+18 31.3	2.006	2.982	2.9	20.0
2 1	7 27.32	+19 15.9	2.034	2.976	6.8	20.2
2 11	7 19.71	+19 56.8	2.090	2.968	10.4	20.4
2 21	7 14.29	+20 32.3	2.170	2.960	13.5	20.6

250198 2002 US_{38} 1 14.9 94°.10 8°.3/18.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.46	− 0 56.3	1.902	2.660	16.0	21.2
12 23	8 4.13	− 1 50.5	1.845	2.683	13.3	21.0
1 2	7 55.77	− 2 24.0	1.811	2.705	10.6	20.9
1 12	7 46.19	− 2 34.3	1.802	2.726	8.7	20.8
1 22	7 36.43	− 2 21.8	1.820	2.748	8.4	20.9
2 1	7 27.54	− 1 49.0	1.865	2.769	9.9	21.0
2 11	7 20.42	− 1 1.3	1.935	2.789	12.2	21.2
2 21	7 15.62	− 0 4.5	2.028	2.809	14.6	21.4

462342 2008 PC_{22} 1 14.9 65°.34 0°.2/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.72	+20 57.8	1.943	2.774	13.0	21.4
12 23	8 3.10	+21 13.1	1.874	2.781	9.5	21.2
1 2	7 55.29	+21 32.8	1.830	2.788	5.5	21.0
1 12	7 46.11	+21 53.7	1.814	2.796	1.3	20.7
1 22	7 36.61	+22 12.7	1.827	2.803	3.1	20.9
2 1	7 27.94	+22 27.4	1.868	2.810	7.2	21.1
2 11	7 21.07	+22 36.6	1.937	2.818	10.9	21.4
2 21	7 16.62	+22 40.3	2.028	2.825	14.0	21.6

258515 2002 AK_{152} 1 14.9 23°.96 2°.3/16.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.64	+12 37.6	1.385	2.224	16.9	19.3
12 23	8 1.44	+13 16.7	1.327	2.234	12.7	19.1
1 2	7 54.55	+14 13.4	1.290	2.245	7.9	18.9
1 12	7 45.96	+15 23.4	1.279	2.257	3.2	18.6
1 22	7 36.96	+16 40.3	1.294	2.271	4.0	18.7
2 1	7 28.98	+17 57.0	1.336	2.285	8.7	19.0
2 11	7 23.22	+19 7.5	1.402	2.300	13.1	19.3
2 21	7 20.39	+20 8.3	1.490	2.316	16.8	19.6

319601 2006 SP_{197} 1 14.9 22°.17 0°.7/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.71	+19 59.0	1.159	2.020	17.9	19.9
12 23	8 2.67	+20 43.6	1.109	2.031	13.1	19.6
1 2	7 55.42	+21 38.5	1.081	2.044	7.6	19.4
1 12	7 46.17	+22 36.9	1.076	2.058	1.8	19.0
1 22	7 36.52	+23 31.3	1.096	2.074	4.4	19.3
2 1	7 28.22	+24 15.9	1.142	2.090	9.9	19.6
2 11	7 22.64	+24 48.1	1.210	2.108	14.7	20.0
2 21	7 20.49	+25 7.7	1.297	2.127	18.6	20.3

325273 2008 GH_{128} 1 14.9 279°.64 9°.3/20.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.22	− 7 52.8	2.124	2.840	15.8	21.0
12 23	8 2.90	− 7 53.9	2.008	2.809	13.8	20.7
1 2	7 55.37	− 7 28.4	1.912	2.777	11.7	20.5
1 12	7 46.19	− 6 32.6	1.841	2.745	9.9	20.4
1 22	7 36.23	− 5 6.1	1.796	2.712	9.4	20.3
2 1	7 26.53	− 3 12.3	1.779	2.678	10.6	20.3
2 11	7 18.19	− 0 58.5	1.790	2.644	13.0	20.3
2 21	7 12.02	+ 1 26.0	1.826	2.610	15.9	20.5

273146 2006 HV_{23} 1 14.9 192°.76 0°.8/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.72	+22 28.5	2.605	3.427	10.4	21.7
12 23	8 2.00	+22 54.9	2.523	3.426	7.6	21.5
1 2	7 54.53	+23 24.1	2.466	3.424	4.4	21.3
1 12	7 45.94	+23 53.1	2.440	3.421	1.2	21.1
1 22	7 37.01	+24 18.9	2.444	3.419	2.7	21.2
2 1	7 28.62	+24 39.6	2.479	3.416	6.0	21.4
2 11	7 21.56	+24 54.0	2.543	3.412	9.1	21.6
2 21	7 16.39	+25 2.3	2.630	3.408	11.7	21.8

139375 2001 MY_{19} 1 14.9 122°.56 2°.3/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.06	+26 50.9	1.935	2.765	13.1	20.1
12 23	8 6.31	+27 14.9	1.870	2.776	9.6	19.9
1 2	7 57.16	+27 38.1	1.830	2.787	5.8	19.7
1 12	7 46.54	+27 56.0	1.818	2.797	2.5	19.5
1 22	7 35.64	+28 4.9	1.836	2.807	4.1	19.6
2 1	7 25.73	+28 3.3	1.883	2.816	7.9	19.9
2 11	7 17.85	+27 52.0	1.957	2.825	11.4	20.1
2 21	7 12.65	+27 33.0	2.053	2.834	14.4	20.3

166288 2002 GM_{160} 1 14.9 277°.77 0°.5/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.16	+20 5.0	1.562	2.402	15.3	20.2
12 23	8 4.82	+20 41.1	1.484	2.396	11.3	20.0
1 2	7 56.62	+21 25.9	1.430	2.390	6.6	19.7
1 12	7 46.48	+22 14.4	1.401	2.384	1.5	19.3
1 22	7 35.68	+23 0.9	1.401	2.377	3.8	19.5
2 1	7 25.73	+23 40.6	1.428	2.371	8.9	19.8
2 11	7 17.98	+24 11.0	1.481	2.366	13.4	20.0
2 21	7 13.28	+24 31.7	1.554	2.360	17.2	20.2

419929 2011 BL_{44} 1 14.9 288°.44 0°.2/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.26	+22 9.0	1.912	2.744	13.2	20.8
12 23	8 4.41	+22 3.1	1.826	2.733	9.8	20.5
1 2	7 56.17	+21 59.6	1.764	2.723	5.7	20.3
1 12	7 46.35	+21 55.9	1.730	2.713	1.3	19.9
1 22	7 36.05	+21 49.8	1.726	2.702	3.2	20.1
2 1	7 26.50	+21 39.8	1.750	2.692	7.6	20.3
2 11	7 18.82	+21 25.9	1.801	2.682	11.6	20.5
2 21	7 13.70	+21 8.8	1.874	2.672	15.0	20.7

240932 2006 FE_{31} 1 14.9 157°.49 2°.3/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.15	+13 38.5	1.914	2.726	14.0	21.6
12 23	8 4.88	+13 46.4	1.839	2.733	10.5	21.4
1 2	7 56.35	+14 5.2	1.790	2.739	6.6	21.2
1 12	7 46.38	+14 32.7	1.768	2.745	2.9	20.9
1 22	7 36.03	+15 5.9	1.775	2.749	3.6	21.0
2 1	7 26.46	+15 41.5	1.812	2.754	7.5	21.2
2 11	7 18.69	+16 16.5	1.877	2.757	11.2	21.5
2 21	7 13.39	+16 48.7	1.964	2.760	14.5	21.7

26317 1998 UB_{17} 1 14.9 109°.49 4°.1/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.77	+25 49.1	1.696	2.525	14.8	18.6
12 23	8 10.21	+27 54.2	1.644	2.549	10.8	18.4
1 2	7 59.67	+30 2.2	1.618	2.572	6.7	18.2
1 12	7 47.17	+32 2.0	1.623	2.595	4.1	18.1
1 22	7 34.14	+33 43.6	1.658	2.617	6.1	18.3
2 1	7 22.19	+35 1.5	1.723	2.638	9.8	18.5
2 11	7 12.67	+35 55.0	1.814	2.658	13.3	18.8
2 21	7 6.40	+36 27.7	1.926	2.677	16.3	19.0

338111 2002 QD_{48} 1 14.9 113°.98 1°.5/14.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.00	+23 57.2	1.520	2.355	15.9	21.9
12 23	8 9.57	+24 19.2	1.463	2.372	11.6	21.7
1 2	7 59.19	+24 43.4	1.430	2.389	6.8	21.5
1 12	7 47.03	+25 4.2	1.424	2.405	2.0	21.2
1 22	7 34.61	+25 17.2	1.446	2.420	4.2	21.4
2 1	7 23.52	+25 20.5	1.497	2.435	9.0	21.7
2 11	7 15.05	+25 14.5	1.573	2.450	13.2	22.0
2 21	7 9.85	+25 1.4	1.670	2.463	16.7	22.3

395694 2012 AQ_{13} 1 14.9 144°.58 0°.9/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 3.88	+24 49.1	3.677	4.496	7.7	21.3
12 23	7 58.75	+25 1.0	3.601	4.502	5.6	21.2
1 2	7 52.44	+25 13.1	3.552	4.509	3.3	21.0
1 12	7 45.44	+25 23.7	3.534	4.515	1.1	20.9
1 22	7 38.29	+25 31.2	3.548	4.521	2.1	21.0
2 1	7 31.54	+25 34.6	3.593	4.526	4.5	21.1
2 11	7 25.72	+25 33.7	3.667	4.532	6.7	21.3
2 21	7 21.22	+25 28.6	3.767	4.537	8.6	21.5

379673 2011 FE_{16} 1 14.9 34°.93 2°.6/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.84	+26 14.4	1.951	2.788	12.8	20.9
12 23	8 3.37	+27 2.0	1.881	2.790	9.4	20.7
1 2	7 55.55	+27 51.1	1.835	2.792	5.7	20.5
1 12	7 46.21	+28 36.3	1.817	2.794	2.7	20.3
1 22	7 36.44	+29 12.7	1.828	2.797	4.4	20.4
2 1	7 27.46	+29 37.3	1.868	2.799	8.0	20.7
2 11	7 20.35	+29 49.6	1.933	2.802	11.6	20.9
2 21	7 15.78	+29 50.9	2.021	2.804	14.6	21.1

453809 2011 SE_{74} 1 14.9 183°.03 0°.7/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.57	+22 57.8	1.709	2.540	14.6	20.9
12 23	8 7.72	+22 59.1	1.633	2.540	10.7	20.7
1 2	7 58.14	+23 2.5	1.582	2.540	6.3	20.4
1 12	7 46.81	+23 4.5	1.558	2.540	1.5	20.1
1 22	7 35.04	+23 2.0	1.564	2.539	3.7	20.2
2 1	7 24.27	+22 53.6	1.598	2.538	8.4	20.5
2 11	7 15.74	+22 39.5	1.658	2.537	12.6	20.8
2 21	7 10.17	+22 21.1	1.740	2.535	16.1	21.0

196248 2003 DX_{13} 1 14.9 282°.58 0°.5/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.27	+20 45.3	1.481	2.323	15.8	20.4
12 23	8 5.98	+21 10.9	1.391	2.303	11.8	20.1
1 2	7 57.51	+21 44.9	1.323	2.283	7.0	19.8
1 12	7 46.75	+22 22.4	1.281	2.263	1.6	19.4
1 22	7 35.03	+22 57.9	1.266	2.243	4.1	19.5
2 1	7 24.05	+23 26.9	1.279	2.223	9.6	19.8
2 11	7 15.38	+23 46.9	1.316	2.202	14.6	20.0
2 21	7 10.06	+23 58.0	1.373	2.182	18.9	20.2

287969 2003 UR_{133} 1 14.9 93°.45 0°.6/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.03	+16 59.5	1.663	2.491	15.0	20.8
12 23	8 5.02	+17 39.7	1.602	2.507	11.0	20.6
1 2	7 56.50	+18 30.2	1.566	2.523	6.5	20.4
1 12	7 46.42	+19 26.2	1.557	2.539	1.7	20.1
1 22	7 36.01	+20 22.3	1.577	2.554	3.4	20.3
2 1	7 26.58	+21 13.8	1.626	2.570	8.0	20.6
2 11	7 19.25	+21 57.6	1.701	2.584	12.0	20.8
2 21	7 14.69	+22 32.5	1.798	2.599	15.4	21.1

337379 2001 QY_{84} 1 14.9 132°.57 0°.8/15.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.43	+15 59.6	2.961	3.768	9.7	22.2
12 23	8 0.77	+16 33.6	2.890	3.783	7.1	22.0
1 2	7 53.69	+17 13.8	2.845	3.797	4.3	21.8
1 12	7 45.75	+17 57.8	2.831	3.811	1.4	21.7
1 22	7 37.58	+18 42.9	2.849	3.825	2.2	21.7
2 1	7 29.91	+19 26.7	2.899	3.838	5.1	22.0
2 11	7 23.35	+20 7.0	2.978	3.851	7.8	22.2
2 21	7 18.38	+20 42.7	3.083	3.863	10.1	22.3

465788 2010 AL_{128} 1 14.9 167°.66 6°.3/19.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.29	− 5 16.8	3.021	3.736	11.6	22.1
12 23	7 59.22	− 5 12.0	2.935	3.739	9.8	21.9
1 2	7 52.80	− 4 49.9	2.873	3.742	8.0	21.8
1 12	7 45.55	− 4 9.9	2.838	3.745	6.7	21.7
1 22	7 38.05	− 3 13.2	2.831	3.748	6.3	21.7
2 1	7 30.95	− 2 2.4	2.854	3.750	7.2	21.8
2 11	7 24.86	− 0 41.7	2.905	3.751	8.8	21.9
2 21	7 20.22	+ 0 44.5	2.982	3.753	10.6	22.0

146647 2001 UA_{80} 1 14.9 75°.72 1°.0/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.02	+17 15.5	1.752	2.580	14.4	20.7
12 23	8 4.11	+17 31.7	1.693	2.597	10.6	20.5
1 2	7 55.89	+17 56.4	1.658	2.615	6.3	20.3
1 12	7 46.27	+18 26.1	1.651	2.632	1.9	20.0
1 22	7 36.40	+18 57.3	1.673	2.650	3.2	20.2
2 1	7 27.50	+19 26.7	1.723	2.667	7.6	20.5
2 11	7 20.58	+19 52.0	1.799	2.684	11.4	20.7
2 21	7 16.25	+20 12.2	1.898	2.701	14.7	21.0

240655 2005 CB_{48} 1 14.9 315°.13 3°.0/16.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.48	+10 30.8	2.061	2.871	13.2	20.5
12 23	8 0.71	+10 50.2	1.978	2.867	10.1	20.3
1 2	7 53.94	+11 23.3	1.918	2.862	6.7	20.1
1 12	7 45.84	+12 8.5	1.885	2.858	3.5	19.9
1 22	7 37.32	+13 2.6	1.882	2.854	3.8	19.9
2 1	7 29.36	+14 1.5	1.908	2.850	7.1	20.1
2 11	7 22.89	+15 1.0	1.961	2.846	10.6	20.3
2 21	7 18.57	+15 57.7	2.038	2.843	13.7	20.5

126586 2002 CV_{127} 1 14.9 88°.83 1°.1/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 13.66	+21 36.2	1.535	2.371	15.6	20.2
12 23	8 7.09	+22 16.0	1.481	2.391	11.4	19.9
1 2	7 57.74	+23 1.4	1.452	2.411	6.6	19.7
1 12	7 46.71	+23 46.4	1.449	2.431	1.7	19.4
1 22	7 35.42	+24 25.6	1.475	2.450	4.0	19.7
2 1	7 25.34	+24 55.2	1.529	2.469	8.7	20.0
2 11	7 17.68	+25 14.3	1.608	2.488	12.8	20.3
2 21	7 13.10	+25 23.9	1.709	2.506	16.2	20.5

179949 2002 WR_5 1 14.9 13°.46 1°.5/15.4 18

12 13	8 8.23	+17 32.4	1.388	2.233	16.5	19.7
12 23	8 3.42	+17 29.4	1.323	2.235	12.3	19.5
1 2	7 55.77	+17 36.1	1.280	2.239	7.4	19.2
1 12	7 46.29	+17 49.7	1.262	2.243	2.4	18.9
1 22	7 36.37	+18 6.9	1.271	2.248	3.9	19.0
2 1	7 27.52	+18 24.5	1.306	2.254	8.9	19.3
2 11	7 21.03	+18 40.0	1.365	2.260	13.5	19.6
2 21	7 17.62	+18 51.9	1.444	2.268	17.4	19.9

457716 2009 FY_{49} 1 14.9 335°.10 2°.0/15.7 16

12 13	8 3.38	+14 32.1	1.132	1.990	18.5	20.9
12 23	8 0.68	+15 1.3	1.050	1.969	14.1	20.6
1 2	7 54.64	+15 50.7	0.989	1.950	8.7	20.2
1 12	7 46.13	+16 57.5	0.951	1.931	3.1	19.8
1 22	7 36.57	+18 14.7	0.936	1.914	4.5	19.9
2 1	7 27.83	+19 33.8	0.946	1.899	10.6	20.1
2 11	7 21.67	+20 47.1	0.977	1.886	16.3	20.4
2 21	7 19.22	+21 49.4	1.026	1.874	21.2	20.7

231486 Capefearrock 1 14.9 147°.40 1°.5/15.6 18

12 13	8 13.03	+15 21.4	1.788	2.605	14.6	21.5
12 23	8 6.38	+15 43.5	1.718	2.616	10.9	21.2
1 2	7 57.28	+16 16.1	1.673	2.626	6.6	21.0
1 12	7 46.63	+16 56.0	1.655	2.635	2.3	20.8
1 22	7 35.58	+17 38.9	1.667	2.644	3.4	20.9
2 1	7 25.43	+18 20.9	1.709	2.651	7.8	21.1
2 11	7 17.27	+18 59.1	1.778	2.658	11.8	21.4
2 21	7 11.80	+19 31.7	1.869	2.664	15.1	21.6

18246 3088 $T\text{-}_2$ 1 14.9 98°.79 1°.3/14.4 18

12 13	8 10.29	+23 13.3	1.944	2.776	13.0	19.9
12 23	8 4.27	+23 46.2	1.880	2.788	9.5	19.7
1 2	7 56.00	+24 22.2	1.841	2.799	5.5	19.5
1 12	7 46.32	+24 56.7	1.829	2.811	1.7	19.3
1 22	7 36.34	+25 25.8	1.848	2.822	3.5	19.4
2 1	7 27.22	+25 46.8	1.895	2.833	7.5	19.7
2 11	7 19.99	+25 58.9	1.969	2.844	11.1	19.9
2 21	7 15.26	+26 2.8	2.066	2.854	14.1	20.2

457039 2008 CV_{196} 1 14.9 344°.31 2°.4/14.2 16

12 13	8 8.58	+25 16.2	1.340	2.196	16.3	21.7
12 23	8 4.08	+25 42.8	1.268	2.187	12.1	21.4
1 2	7 56.36	+26 12.2	1.217	2.179	7.2	21.1
1 12	7 46.47	+26 38.3	1.192	2.172	2.7	20.9
1 22	7 35.91	+26 55.7	1.192	2.166	5.0	21.0
2 1	7 26.43	+27 0.9	1.218	2.161	10.1	21.3
2 11	7 19.55	+26 53.9	1.267	2.157	14.8	21.5
2 21	7 16.11	+26 36.9	1.336	2.154	18.8	21.8

371237 2006 BH_{94} 1 14.9 12°.80 1°.0/14.6 18

12 13	8 9.65	+23 36.6	1.910	2.744	13.1	20.9
12 23	8 3.91	+23 46.1	1.836	2.745	9.6	20.6
1 2	7 55.84	+23 57.6	1.786	2.745	5.6	20.4
1 12	7 46.30	+24 7.6	1.765	2.746	1.5	20.1
1 22	7 36.40	+24 13.1	1.772	2.747	3.4	20.3
2 1	7 27.33	+24 12.5	1.808	2.748	7.6	20.5
2 11	7 20.15	+24 5.5	1.871	2.750	11.3	20.8
2 21	7 15.52	+23 52.9	1.956	2.751	14.5	21.0

254692 2005 MH_{24} 1 14.9 137°.77 6°.1/17.7 18

12 13	8 8.65	+ 2 59.2	2.087	2.861	14.3	20.7
12 23	8 2.84	+ 2 36.3	2.015	2.871	11.6	20.5
1 2	7 55.08	+ 2 30.4	1.965	2.880	8.7	20.4
1 12	7 46.12	+ 2 42.3	1.943	2.889	6.5	20.2
1 22	7 36.85	+ 3 11.0	1.949	2.897	6.3	20.2
2 1	7 28.26	+ 3 53.4	1.983	2.905	8.3	20.4
2 11	7 21.23	+ 4 45.4	2.044	2.913	11.0	20.6
2 21	7 16.34	+ 5 42.0	2.129	2.920	13.7	20.8

66072 1998 RW_{48} 1 14.9 131°.00 0°.3/15.1 18

12 13	8 8.46	+19 17.3	2.259	3.081	11.8	19.8
12 23	8 2.67	+19 29.4	2.186	3.088	8.7	19.6
1 2	7 54.98	+19 46.5	2.138	3.095	5.1	19.4
1 12	7 46.10	+20 5.9	2.120	3.102	1.3	19.2
1 22	7 36.95	+20 25.1	2.131	3.108	2.7	19.3
2 1	7 28.47	+20 42.0	2.173	3.114	6.4	19.5
2 11	7 21.53	+20 55.3	2.242	3.120	9.8	19.8
2 21	7 16.70	+21 4.5	2.335	3.126	12.6	20.0

197615 2004 JQ_{26} 1 14.9 196°.97 3°.5/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 15.65	+28 46.7	2.027	2.852	12.8	21.9
12 23	8 8.45	+29 41.3	1.946	2.848	9.6	21.6
1 2	7 58.62	+30 35.4	1.892	2.844	6.0	21.4
1 12	7 47.00	+31 22.5	1.866	2.839	3.5	21.3
1 22	7 34.78	+31 57.2	1.870	2.833	5.1	21.3
2 1	7 23.35	+32 16.5	1.905	2.826	8.6	21.5
2 11	7 13.93	+32 20.6	1.965	2.818	12.1	21.7
2 21	7 7.32	+32 12.2	2.048	2.809	15.1	21.9

116403 2003 YR_{135} 1 14.9 38°.62 1°.6/13.9 18

12 13	8 7.33	+21 16.3	1.926	2.761	13.0	19.2
12 23	8 2.26	+22 38.8	1.860	2.770	9.4	19.0
1 2	7 54.94	+24 8.4	1.820	2.780	5.5	18.8
1 12	7 46.13	+25 38.7	1.809	2.790	1.8	18.5
1 22	7 36.88	+27 3.0	1.828	2.800	3.8	18.7
2 1	7 28.34	+28 15.8	1.876	2.811	7.8	19.0
2 11	7 21.58	+29 14.5	1.951	2.822	11.3	19.2
2 21	7 17.26	+29 58.6	2.048	2.833	14.4	19.4

296251 2009 DH_{21} 1 14.9 210°.35 1°.3/14.3 17

12 13	8 7.40	+24 59.9	2.824	3.646	9.7	22.0
12 23	8 1.71	+25 20.2	2.738	3.641	7.1	21.8
1 2	7 54.36	+25 41.1	2.679	3.635	4.2	21.6
1 12	7 45.97	+26 0.0	2.650	3.630	1.5	21.4
1 22	7 37.27	+26 14.4	2.651	3.624	2.8	21.5
2 1	7 29.07	+26 22.8	2.684	3.617	5.8	21.7
2 11	7 22.11	+26 24.6	2.745	3.611	8.6	21.9
2 21	7 16.94	+26 20.4	2.831	3.604	11.1	22.0

218358 2004 GB_{10} 1 14.9 205°.92 1°.7/15.7 18

12 13	8 9.17	+14 52.2	2.478	3.284	11.4	21.7
12 23	8 3.13	+14 58.0	2.387	3.278	8.5	21.5
1 2	7 55.26	+15 11.3	2.322	3.271	5.3	21.2
1 12	7 46.19	+15 30.5	2.286	3.264	2.2	21.0
1 22	7 36.73	+15 53.5	2.281	3.256	2.9	21.1
2 1	7 27.78	+16 18.1	2.307	3.247	6.2	21.3
2 11	7 20.17	+16 42.3	2.362	3.237	9.4	21.4
2 21	7 14.50	+17 4.6	2.441	3.227	12.3	21.6

377082 2002 VP_5 1 14.9 81°.89 0°.7/15.3 18

12 13	8 7.59	+17 53.2	2.225	3.046	12.0	21.5
12 23	8 1.99	+18 7.3	2.160	3.062	8.8	21.3
1 2	7 54.55	+18 27.4	2.121	3.077	5.2	21.1
1 12	7 46.01	+18 51.1	2.111	3.092	1.5	20.9
1 22	7 37.25	+19 15.7	2.131	3.107	2.7	21.0
2 1	7 29.20	+19 38.8	2.181	3.123	6.3	21.3
2 11	7 22.70	+19 58.7	2.258	3.138	9.6	21.5
2 21	7 18.27	+20 14.7	2.359	3.153	12.4	21.7

354976 2006 HF_{118} 1 14.9 239°.65 0°.9/15.3 17

12 13	8 11.09	+17 26.6	1.834	2.658	14.0	22.0
12 23	8 5.21	+17 46.1	1.743	2.646	10.5	21.8
1 2	7 56.78	+18 14.6	1.677	2.633	6.3	21.5
1 12	7 46.59	+18 49.1	1.638	2.620	1.8	21.2
1 22	7 35.75	+19 25.5	1.629	2.606	3.3	21.3
2 1	7 25.54	+20 0.2	1.649	2.591	8.0	21.5
2 11	7 17.18	+20 30.5	1.695	2.577	12.2	21.7
2 21	7 11.50	+20 55.2	1.764	2.561	15.8	21.9

419769 2010 VO_{133} 1 14.9 123°.20 4°.3/12.9 18

12 13	8 14.06	+31 52.4	2.114	2.940	12.4	21.8
12 23	8 7.04	+32 53.1	2.056	2.956	9.3	21.6
1 2	7 57.63	+33 49.7	2.024	2.972	6.2	21.5
1 12	7 46.74	+34 36.0	2.021	2.987	4.3	21.4
1 22	7 35.54	+35 7.2	2.048	3.002	5.6	21.5
2 1	7 25.28	+35 21.4	2.104	3.016	8.5	21.7
2 11	7 17.03	+35 19.8	2.186	3.029	11.4	21.9
2 21	7 11.43	+35 5.5	2.290	3.042	14.0	22.1

263603 2008 FX_{130} 1 14.9 289°.25 0°.5/14.8 18

12 13	8 9.68	+21 36.2	1.752	2.588	14.0	20.5
12 23	8 4.30	+21 52.0	1.665	2.574	10.4	20.2
1 2	7 56.29	+22 12.8	1.601	2.561	6.1	19.9
1 12	7 46.48	+22 35.0	1.565	2.547	1.5	19.6
1 22	7 36.04	+22 54.6	1.557	2.533	3.6	19.7
2 1	7 26.33	+23 8.6	1.577	2.520	8.3	20.0
2 11	7 18.58	+23 16.0	1.623	2.506	12.5	20.2
2 21	7 13.62	+23 16.7	1.691	2.493	16.2	20.4

169516 2002 EQ 1 14.9 245°.57 1°.5/15.6 17

12 13	8 11.50	+15 37.9	2.144	2.955	12.7	21.3
12 23	8 5.27	+15 49.9	2.039	2.934	9.6	21.0
1 2	7 56.74	+16 10.7	1.960	2.912	5.9	20.7
1 12	7 46.59	+16 38.2	1.909	2.889	2.2	20.5
1 22	7 35.77	+17 9.6	1.889	2.865	3.2	20.5
2 1	7 25.38	+17 41.8	1.899	2.840	7.3	20.7
2 11	7 16.53	+18 12.3	1.938	2.814	11.1	20.9
2 21	7 10.00	+18 39.5	1.999	2.787	14.5	21.0

393798 2005 NB_{22} 1 14.9 129°.42 1°.5/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 14.73	+17 26.8	1.523	2.352	16.2	21.7
12 23	8 7.93	+17 19.8	1.458	2.362	12.0	21.5
1 2	7 58.31	+17 21.1	1.415	2.371	7.2	21.3
1 12	7 46.93	+17 28.0	1.400	2.380	2.4	21.0
1 22	7 35.18	+17 37.8	1.412	2.389	3.8	21.1
2 1	7 24.56	+17 47.8	1.453	2.397	8.7	21.4
2 11	7 16.34	+17 56.4	1.519	2.405	13.1	21.7
2 21	7 11.22	+18 2.8	1.607	2.412	16.8	21.9

431514 2007 TA_{187} 1 14.9 22°.97 14°.5/ 7.5 18

12 13	8 23.40	+59 25.5	1.827	2.586	16.6	20.0
12 23	8 16.28	+61 21.9	1.798	2.595	15.3	19.9
1 2	8 4.06	+62 51.3	1.789	2.605	14.6	19.9
1 12	7 48.34	+63 42.4	1.801	2.616	14.6	19.9
1 22	7 31.88	+63 49.6	1.833	2.627	15.2	20.0
2 1	7 17.71	+63 14.6	1.885	2.640	16.3	20.1
2 11	7 8.06	+62 5.5	1.954	2.652	17.6	20.2
2 21	7 3.68	+60 32.7	2.038	2.666	18.9	20.3

38286 1999 RP_{62} 1 14.9 197°.87 0°.9/14.6 18

12 13	8 12.34	+22 12.0	1.994	2.820	13.0	20.0
12 23	8 5.90	+22 38.9	1.912	2.817	9.5	19.8
1 2	7 57.07	+23 9.8	1.856	2.814	5.6	19.5
1 12	7 46.66	+23 40.6	1.828	2.810	1.5	19.2
1 22	7 35.76	+24 7.4	1.830	2.805	3.4	19.4
2 1	7 25.60	+24 27.3	1.862	2.800	7.6	19.6
2 11	7 17.27	+24 39.4	1.921	2.794	11.4	19.9
2 21	7 11.51	+24 44.1	2.003	2.787	14.6	20.1

224612 2005 YL_{67} 1 14.9 176°.43 1°.3/14.4 18

12 13	8 9.29	+23 17.1	2.064	2.895	12.4	20.7
12 23	8 3.58	+23 48.1	1.988	2.896	9.1	20.5
1 2	7 55.66	+24 22.2	1.938	2.896	5.3	20.3
1 12	7 46.33	+24 55.4	1.915	2.897	1.6	20.0
1 22	7 36.59	+25 23.8	1.923	2.897	3.4	20.2
2 1	7 27.58	+25 44.6	1.959	2.897	7.3	20.4
2 11	7 20.29	+25 57.1	2.023	2.897	10.9	20.6
2 21	7 15.38	+26 1.5	2.109	2.896	13.9	20.8

104848 2000 HL_{74} 1 14.9 156°.41 2°.6/16.4 18

12 13	8 8.67	+10 33.0	2.284	3.083	12.5	20.1
12 23	8 2.82	+11 0.2	2.206	3.090	9.5	19.9
1 2	7 55.10	+11 39.7	2.154	3.097	6.2	19.7
1 12	7 46.19	+12 29.4	2.130	3.103	3.2	19.5
1 22	7 36.94	+13 26.1	2.136	3.108	3.4	19.5
2 1	7 28.27	+14 25.9	2.174	3.113	6.5	19.7
2 11	7 21.05	+15 25.1	2.240	3.118	9.8	20.0
2 21	7 15.84	+16 20.7	2.330	3.122	12.6	20.2

409586 2005 UQ_{243} 1 14.9 57°.51 10°.1/10.9 18

12 13	8 18.51	+44 9.4	1.633	2.452	15.7	20.0
12 23	8 11.31	+45 56.7	1.602	2.478	12.9	19.9
1 2	8 0.49	+47 26.4	1.595	2.503	10.8	19.8
1 12	7 47.46	+48 27.7	1.613	2.529	10.1	19.8
1 22	7 34.11	+48 54.6	1.655	2.555	11.1	19.9
2 1	7 22.45	+48 47.6	1.723	2.581	13.2	20.1
2 11	7 14.01	+48 12.8	1.811	2.607	15.4	20.3
2 21	7 9.46	+47 18.4	1.918	2.633	17.5	20.5

83276 2001 RJ_{83} 1 14.9 302°.64 2°.1/14.2 18

12 13	8 9.54	+27 31.3	2.234	3.064	11.6	19.5
12 23	8 3.63	+27 43.6	2.155	3.061	8.6	19.3
1 2	7 55.63	+27 54.5	2.102	3.058	5.2	19.1
1 12	7 46.32	+28 0.5	2.077	3.055	2.3	18.9
1 22	7 36.67	+27 58.9	2.082	3.052	3.7	19.0
2 1	7 27.75	+27 48.6	2.116	3.049	7.1	19.2
2 11	7 20.52	+27 30.0	2.178	3.047	10.4	19.4
2 21	7 15.57	+27 5.0	2.263	3.044	13.3	19.6

41088 1999 VO_{57} 1 14.9 7°.89 0°.8/15.3 18

12 13	8 7.84	+17 50.4	1.943	2.771	13.2	19.6
12 23	8 2.55	+18 2.3	1.867	2.771	9.8	19.4
1 2	7 55.08	+18 21.5	1.815	2.772	5.8	19.2
1 12	7 46.20	+18 45.5	1.791	2.772	1.7	18.9
1 22	7 36.93	+19 11.0	1.795	2.772	3.1	19.0
2 1	7 28.38	+19 35.4	1.829	2.773	7.2	19.3
2 11	7 21.55	+19 56.5	1.889	2.774	11.0	19.5
2 21	7 17.09	+20 13.2	1.972	2.774	14.2	19.7

341418 2007 TZ_{198} 1 14.9 103°.18 0°.2/15.1 18

12 13	8 7.46	+19 48.8	2.358	3.181	11.3	21.6
12 23	8 1.89	+20 0.6	2.286	3.189	8.3	21.4
1 2	7 54.52	+20 16.7	2.241	3.197	4.9	21.2
1 12	7 46.05	+20 34.7	2.224	3.206	1.2	20.9
1 22	7 37.32	+20 52.1	2.237	3.214	2.6	21.1
2 1	7 29.25	+21 7.0	2.281	3.222	6.2	21.3
2 11	7 22.64	+21 18.3	2.352	3.229	9.4	21.5
2 21	7 18.02	+21 25.4	2.447	3.237	12.1	21.7

390613 2001 UT_{212} 1 14.9 100°.96 4°.7/17.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 5.18	+ 5 44.9	2.430	3.214	12.2	21.1
12 23	8 0.15	+ 5 27.2	2.353	3.219	9.7	20.9
1 2	7 53.49	+ 5 22.6	2.300	3.224	7.1	20.8
1 12	7 45.81	+ 5 31.2	2.275	3.229	5.0	20.7
1 22	7 37.87	+ 5 52.0	2.278	3.234	5.0	20.7
2 1	7 30.46	+ 6 22.8	2.311	3.239	6.9	20.8
2 11	7 24.33	+ 7 0.6	2.371	3.244	9.5	21.0
2 21	7 19.98	+ 7 42.0	2.455	3.249	12.0	21.1

439865 1999 TB_{72} 1 14.9 134°.09 0°.7/15.2 17

12 13	8 14.52	+18 6.7	1.580	2.408	15.7	22.6
12 23	8 7.75	+18 23.6	1.515	2.420	11.6	22.3
1 2	7 58.21	+18 49.1	1.474	2.431	6.9	22.1
1 12	7 46.94	+19 19.1	1.460	2.441	1.8	21.8
1 22	7 35.27	+19 49.4	1.474	2.451	3.6	21.9
2 1	7 24.70	+20 16.4	1.517	2.460	8.5	22.2
2 11	7 16.44	+20 38.2	1.586	2.469	12.8	22.5
2 21	7 11.21	+20 54.0	1.677	2.477	16.4	22.8

185024 2006 QT_{59} 1 14.9 142°.43 1°.6/15.8 18

12 13	8 6.12	+14 40.7	2.785	3.592	10.2	21.7
12 23	8 0.65	+14 45.6	2.709	3.600	7.7	21.5
1 2	7 53.71	+14 57.1	2.659	3.608	4.8	21.3
1 12	7 45.86	+15 13.8	2.639	3.616	2.0	21.1
1 22	7 37.78	+15 34.0	2.649	3.623	2.6	21.2
2 1	7 30.22	+15 55.9	2.690	3.630	5.4	21.4
2 11	7 23.83	+16 17.6	2.761	3.637	8.2	21.6
2 21	7 19.10	+16 37.8	2.856	3.643	10.6	21.8

355896 2008 WH_{50} 1 14.9 100°.54 1°.4/14.5 17

12 13	8 15.36	+22 42.6	1.642	2.474	15.0	21.2
12 23	8 8.20	+23 22.9	1.590	2.497	10.9	21.0
1 2	7 58.37	+24 6.9	1.562	2.521	6.3	20.8
1 12	7 46.95	+24 48.8	1.562	2.543	1.9	20.5
1 22	7 35.31	+25 23.5	1.591	2.565	4.0	20.7
2 1	7 24.88	+25 47.9	1.649	2.587	8.4	21.0
2 11	7 16.82	+26 1.7	1.733	2.607	12.3	21.3
2 21	7 11.74	+26 6.2	1.839	2.628	15.6	21.6

426836 2013 VD_{7} 1 14.9 42°.15 3°.9/13.8 18

12 13	8 11.90	+31 56.8	1.906	2.740	13.1	20.4
12 23	8 5.57	+32 16.1	1.846	2.750	9.8	20.2
1 2	7 56.80	+32 30.0	1.810	2.761	6.4	20.0
1 12	7 46.59	+32 33.7	1.802	2.773	4.0	19.9
1 22	7 36.16	+32 23.9	1.822	2.784	5.3	20.0
2 1	7 26.82	+32 0.5	1.871	2.796	8.5	20.2
2 11	7 19.61	+31 25.5	1.945	2.808	11.7	20.4
2 21	7 15.13	+30 42.3	2.042	2.821	14.6	20.6

139388 2001 NQ_{4} 1 14.9 222°.59 0°.5/15.2 18

12 13	8 9.97	+18 36.0	1.961	2.786	13.2	20.3
12 23	8 4.19	+18 55.1	1.877	2.780	9.8	20.0
1 2	7 56.10	+19 21.3	1.817	2.774	5.8	19.8
1 12	7 46.46	+19 51.6	1.786	2.768	1.5	19.5
1 22	7 36.33	+20 22.3	1.784	2.761	3.1	19.6
2 1	7 26.87	+20 50.3	1.812	2.754	7.4	19.8
2 11	7 19.15	+21 13.6	1.866	2.746	11.3	20.0
2 21	7 13.89	+21 31.4	1.943	2.739	14.6	20.3

336989 2011 LB_{5} 1 14.9 95°.50 2°.6/16.4 18

12 13	8 5.74	+11 8.2	2.285	3.091	12.2	20.2
12 23	8 0.69	+11 27.3	2.209	3.097	9.3	20.0
1 2	7 53.87	+11 57.9	2.159	3.103	6.0	19.8
1 12	7 45.92	+12 38.4	2.136	3.109	3.1	19.6
1 22	7 37.67	+13 25.7	2.143	3.115	3.4	19.7
2 1	7 29.99	+14 16.6	2.180	3.121	6.4	19.9
2 11	7 23.69	+15 7.5	2.245	3.127	9.6	20.1
2 21	7 19.33	+15 55.9	2.334	3.133	12.4	20.3

324670 2007 DX_{48} 1 14.9 67°.90 2°.2/15.9 18

12 13	8 7.97	+14 4.3	1.877	2.698	13.9	20.6
12 23	8 2.67	+14 11.6	1.802	2.700	10.4	20.4
1 2	7 55.17	+14 29.6	1.751	2.703	6.5	20.2
1 12	7 46.25	+14 56.4	1.727	2.705	2.8	19.9
1 22	7 36.93	+15 29.1	1.732	2.707	3.5	20.0
2 1	7 28.34	+16 4.3	1.766	2.710	7.4	20.2
2 11	7 21.49	+16 38.9	1.826	2.712	11.2	20.5
2 21	7 17.04	+17 10.7	1.909	2.714	14.5	20.7

427695 Johnpazder 1 14.9 308°.41 0°.6/14.8 18

12 13	8 8.93	+23 24.6	2.120	2.950	12.1	20.5
12 23	8 3.29	+23 20.3	2.033	2.940	8.9	20.3
1 2	7 55.51	+23 17.3	1.971	2.930	5.2	20.0
1 12	7 46.33	+23 12.8	1.938	2.920	1.3	19.7
1 22	7 36.74	+23 5.0	1.934	2.910	3.1	19.9
2 1	7 27.84	+22 52.6	1.960	2.901	7.0	20.1
2 11	7 20.60	+22 35.8	2.013	2.891	10.7	20.3
2 21	7 15.69	+22 15.3	2.089	2.882	13.8	20.5

440557 2005 UG_{278} 1 14.9 66°.81 1°.8/14.4 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 15.82	+23 21.4	1.253	2.100	17.8	21.2
12 23	8 9.05	+23 57.4	1.211	2.126	12.9	21.0
1 2	7 59.02	+24 37.2	1.191	2.151	7.5	20.8
1 12	7 47.12	+25 13.8	1.196	2.177	2.3	20.5
1 22	7 35.08	+25 41.1	1.228	2.202	4.7	20.8
2 1	7 24.68	+25 56.4	1.286	2.228	9.8	21.1
2 11	7 17.23	+25 59.9	1.368	2.253	14.3	21.5
2 21	7 13.35	+25 54.0	1.470	2.278	17.9	21.8

393222 2013 ES_{86} 1 14.9 26°.48 5°.1/13.6 18

12 13	8 13.49	+31 2.8	1.316	2.167	16.8	20.4
12 23	8 7.75	+31 46.0	1.258	2.172	12.6	20.1
1 2	7 58.51	+32 25.1	1.222	2.178	8.2	19.9
1 12	7 47.06	+32 51.3	1.211	2.183	5.2	19.7
1 22	7 35.14	+32 58.7	1.226	2.190	6.9	19.9
2 1	7 24.68	+32 45.5	1.266	2.197	11.1	20.1
2 11	7 17.20	+32 15.0	1.329	2.204	15.3	20.4
2 21	7 13.45	+31 32.1	1.412	2.212	18.9	20.6

34430 2000 SJ_{29} 1 14.9 122°.19 1°.5/15.8 18

12 13	8 6.13	+15 9.3	2.635	3.445	10.7	20.0
12 23	8 0.74	+15 13.5	2.561	3.454	7.9	19.8
1 2	7 53.80	+15 24.4	2.513	3.463	4.9	19.6
1 12	7 45.91	+15 40.5	2.494	3.472	2.0	19.4
1 22	7 37.79	+16 0.0	2.506	3.481	2.6	19.5
2 1	7 30.22	+16 20.8	2.548	3.489	5.6	19.7
2 11	7 23.90	+16 41.4	2.619	3.497	8.5	19.9
2 21	7 19.31	+17 0.2	2.715	3.505	11.0	20.1

172994 2006 KE_{122} 1 14.9 156°.45 1°.5/13.9 18

12 13	8 7.68	+23 50.2	2.805	3.625	9.8	20.5
12 23	8 1.96	+24 47.0	2.729	3.632	7.1	20.3
1 2	7 54.57	+25 46.4	2.681	3.637	4.2	20.1
1 12	7 46.11	+26 44.4	2.664	3.643	1.6	19.9
1 22	7 37.31	+27 37.3	2.678	3.648	3.0	20.1
2 1	7 29.00	+28 22.2	2.723	3.653	5.9	20.3
2 11	7 21.93	+28 57.8	2.798	3.657	8.7	20.4
2 21	7 16.64	+29 24.0	2.897	3.661	11.1	20.6

468664 2008 XU_{11} 1 14.9 165°.19 1°.7/15.7 18

12 13	8 8.31	+15 59.2	2.386	3.199	11.5	21.5
12 23	8 2.49	+15 45.0	2.306	3.201	8.6	21.3
1 2	7 54.89	+15 36.7	2.252	3.203	5.3	21.1
1 12	7 46.18	+15 33.4	2.227	3.205	2.2	20.9
1 22	7 37.19	+15 33.6	2.232	3.206	3.0	21.0
2 1	7 28.81	+15 36.2	2.267	3.207	6.2	21.2
2 11	7 21.84	+15 39.8	2.330	3.208	9.4	21.4
2 21	7 16.85	+15 43.4	2.418	3.209	12.2	21.6

318414 2005 AD_{41} 1 14.9 46°.27 0°.9/15.3 18

12 13	8 8.62	+17 46.7	1.679	2.513	14.6	20.3
12 23	8 3.20	+18 1.3	1.625	2.533	10.7	20.1
1 2	7 55.44	+18 24.1	1.595	2.552	6.4	19.9
1 12	7 46.31	+18 51.8	1.592	2.573	1.8	19.7
1 22	7 36.96	+19 20.5	1.616	2.594	3.3	19.8
2 1	7 28.62	+19 47.2	1.669	2.615	7.6	20.1
2 11	7 22.30	+20 9.7	1.748	2.636	11.5	20.4
2 21	7 18.57	+20 27.0	1.849	2.658	14.8	20.7

104443 2000 GS_2 1 14.9 153°.16 4°.6/12.6 18

12 13	8 11.31	+35 33.9	2.561	3.380	10.7	19.8
12 23	8 4.85	+36 20.7	2.493	3.385	8.2	19.6
1 2	7 56.33	+37 1.7	2.452	3.390	5.8	19.5
1 12	7 46.53	+37 31.8	2.439	3.395	4.6	19.4
1 22	7 36.41	+37 47.4	2.456	3.399	5.6	19.5
2 1	7 27.03	+37 47.4	2.502	3.403	7.8	19.6
2 11	7 19.31	+37 33.1	2.575	3.407	10.3	19.8
2 21	7 13.86	+37 7.1	2.670	3.410	12.5	19.9

304064 2006 FM_{22} 1 14.9 128°.76 2°.7/13.9 18

12 13	8 15.45	+27 27.2	1.962	2.788	13.2	21.5
12 23	8 8.07	+28 3.7	1.901	2.805	9.7	21.3
1 2	7 58.26	+28 39.0	1.866	2.821	5.9	21.1
1 12	7 46.98	+29 7.9	1.859	2.836	2.8	20.9
1 22	7 35.43	+29 26.1	1.883	2.851	4.4	21.0
2 1	7 24.91	+29 32.0	1.936	2.865	8.0	21.3
2 11	7 16.49	+29 26.4	2.016	2.878	11.4	21.5
2 21	7 10.79	+29 11.6	2.118	2.890	14.3	21.7

45805 2000 QU_{18} 1 14.9 324°.31 2°.3/15.9 18

12 13	8 9.11	+14 4.7	1.427	2.262	16.7	19.1
12 23	8 4.20	+14 20.6	1.352	2.258	12.6	18.9
1 2	7 56.40	+14 51.5	1.299	2.254	7.9	18.6
1 12	7 46.62	+15 34.7	1.271	2.250	3.2	18.3
1 22	7 36.19	+16 25.2	1.270	2.246	4.1	18.4
2 1	7 26.65	+17 17.9	1.296	2.243	9.1	18.6
2 11	7 19.37	+18 7.9	1.346	2.240	13.8	18.9
2 21	7 15.20	+18 52.0	1.417	2.237	17.8	19.1

114877 2003 QN_{12} 1 14.9 94°.29 3°.8/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 14.67	+29 3.6	1.589	2.428	15.1	19.8
12 23	8 8.05	+29 42.9	1.530	2.439	11.2	19.6
1 2	7 58.47	+30 20.0	1.494	2.449	7.0	19.3
1 12	7 47.06	+30 48.1	1.484	2.459	3.9	19.2
1 22	7 35.29	+31 2.0	1.503	2.469	5.6	19.3
2 1	7 24.75	+30 59.9	1.549	2.479	9.5	19.5
2 11	7 16.73	+30 43.7	1.620	2.489	13.4	19.8
2 21	7 11.95	+30 16.8	1.712	2.499	16.7	20.0

223819 2004 TD_{106} 1 14.9 51°.02 0°.7/15.3 18

12 13	8 7.89	+17 23.9	1.843	2.673	13.7	20.0
12 23	8 2.69	+17 51.0	1.773	2.678	10.1	19.7
1 2	7 55.21	+18 26.8	1.727	2.684	6.0	19.5
1 12	7 46.30	+19 8.1	1.708	2.690	1.7	19.2
1 22	7 37.00	+19 50.6	1.719	2.696	3.1	19.3
2 1	7 28.47	+20 30.6	1.758	2.702	7.4	19.6
2 11	7 21.75	+21 5.3	1.823	2.708	11.3	19.9
2 21	7 17.50	+21 33.6	1.911	2.714	14.5	20.1

170873 2004 HP_{28} 1 14.9 292°.18 7°.6/ 9.9 18

12 13	8 11.85	+42 19.2	2.317	3.130	11.8	20.1
12 23	8 5.99	+43 52.4	2.242	3.117	9.8	20.0
1 2	7 57.39	+45 17.1	2.193	3.104	8.1	19.8
1 12	7 46.86	+46 25.2	2.170	3.091	7.7	19.8
1 22	7 35.56	+47 10.6	2.176	3.077	8.7	19.8
2 1	7 24.92	+47 30.7	2.207	3.064	10.7	19.9
2 11	7 16.25	+47 27.0	2.262	3.051	13.0	20.1
2 21	7 10.45	+47 3.8	2.337	3.038	15.0	20.2

213570 2002 NF_2 1 14.9 198°.24 0°.7/15.3 18

12 13	8 11.24	+18 6.8	2.124	2.941	12.6	21.8
12 23	8 4.95	+18 20.8	2.039	2.938	9.3	21.6
1 2	7 56.49	+18 41.3	1.979	2.934	5.6	21.4
1 12	7 46.60	+19 5.5	1.949	2.930	1.6	21.1
1 22	7 36.27	+19 30.6	1.948	2.925	2.9	21.2
2 1	7 26.58	+19 53.8	1.978	2.919	7.0	21.4
2 11	7 18.54	+20 13.4	2.036	2.913	10.7	21.6
2 21	7 12.82	+20 28.6	2.117	2.906	13.8	21.8

227670 2006 BZ_{238} 1 14.9 183°.75 1°.5/15.6 18

12 13	8 8.56	+16 26.7	2.076	2.896	12.8	21.3
12 23	8 2.96	+16 28.0	1.996	2.896	9.5	21.1
1 2	7 55.30	+16 36.8	1.942	2.896	5.8	20.9
1 12	7 46.32	+16 51.1	1.916	2.896	2.1	20.7
1 22	7 36.97	+17 8.6	1.919	2.895	3.1	20.7
2 1	7 28.30	+17 27.0	1.952	2.895	6.9	21.0
2 11	7 21.24	+17 44.3	2.012	2.894	10.5	21.2
2 21	7 16.42	+17 59.3	2.095	2.894	13.6	21.4

432576 2010 OB_{62} 1 14.9 313°.34 7°.0/17.6 15

12 13	8 5.62	+ 1 26.9	2.199	2.969	13.8	21.5
12 23	8 0.72	+ 0 36.0	2.114	2.962	11.4	21.3
1 2	7 53.98	+ 0 0.7	2.051	2.954	9.0	21.1
1 12	7 46.02	− 0 16.7	2.014	2.947	7.3	21.0
1 22	7 37.66	− 0 15.6	2.004	2.940	7.2	21.0
2 1	7 29.82	+ 0 2.7	2.022	2.933	8.8	21.1
2 11	7 23.34	+ 0 35.0	2.066	2.926	11.3	21.2
2 21	7 18.85	+ 1 16.8	2.132	2.920	13.8	21.4

182732 2001 XH_6 1 14.9 83°.23 7°.6/18.4 18

12 13	8 7.84	+ 0 11.1	1.881	2.651	15.8	20.1
12 23	8 2.44	− 0 22.2	1.817	2.664	13.0	19.9
1 2	7 54.97	− 0 34.8	1.774	2.678	10.2	19.7
1 12	7 46.24	− 0 25.1	1.756	2.691	8.1	19.6
1 22	7 37.22	+ 0 6.0	1.765	2.704	7.7	19.6
2 1	7 28.97	+ 0 55.1	1.802	2.718	9.4	19.8
2 11	7 22.41	+ 1 56.8	1.864	2.731	12.0	20.0
2 21	7 18.13	+ 3 5.0	1.948	2.744	14.6	20.2

394448 2007 RU_{31} 1 14.9 76°.74 6°.3/17.5 17

12 13	8 12.52	+ 5 7.1	1.575	2.370	17.3	21.1
12 23	8 5.94	+ 4 43.7	1.528	2.400	13.7	20.9
1 2	7 56.99	+ 4 40.4	1.503	2.430	9.8	20.8
1 12	7 46.69	+ 4 57.3	1.503	2.459	6.8	20.6
1 22	7 36.28	+ 5 31.9	1.531	2.489	6.6	20.7
2 1	7 27.02	+ 6 19.5	1.586	2.517	9.2	20.9
2 11	7 19.91	+ 7 14.6	1.667	2.546	12.5	21.2
2 21	7 15.52	+ 8 11.6	1.770	2.573	15.5	21.4

457213 2008 JG_{29} 1 14.9 253°.71 2°.8/13.5 17

12 13	8 10.69	+25 42.9	2.086	2.916	12.3	21.7
12 23	8 4.93	+26 52.2	1.994	2.900	9.1	21.4
1 2	7 56.71	+28 5.7	1.927	2.884	5.6	21.2
1 12	7 46.72	+29 17.2	1.890	2.866	2.8	21.0
1 22	7 35.99	+30 20.5	1.883	2.849	4.6	21.0
2 1	7 25.75	+31 11.0	1.905	2.831	8.3	21.2
2 11	7 17.22	+31 46.7	1.954	2.813	11.9	21.4
2 21	7 11.22	+32 8.5	2.025	2.794	15.0	21.6

221138 2005 TX_1 1 14.9 271°.53 6°.6/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 15.45	+37 44.2	1.883	2.708	13.7	20.0
12 23	8 8.79	+38 34.1	1.802	2.695	10.8	19.8
1 2	7 59.07	+39 15.7	1.745	2.681	8.0	19.6
1 12	7 47.26	+39 40.9	1.715	2.667	6.6	19.5
1 22	7 34.80	+39 44.1	1.713	2.653	7.8	19.5
2 1	7 23.32	+39 23.7	1.737	2.639	10.7	19.7
2 11	7 14.25	+38 42.6	1.786	2.624	13.8	19.8
2 21	7 8.44	+37 46.4	1.856	2.610	16.7	20.0

428994 2009 BO_4 1 14.9 2°.21 1°.3/15.2 18

12 13	8 11.25	+20 33.8	1.795	2.626	14.0	20.1
12 23	8 5.11	+19 42.5	1.719	2.625	10.4	19.8
1 2	7 56.60	+18 52.7	1.668	2.625	6.2	19.6
1 12	7 46.63	+18 4.0	1.645	2.625	2.0	19.3
1 22	7 36.37	+17 16.8	1.650	2.627	3.4	19.4
2 1	7 27.05	+16 31.9	1.685	2.629	7.7	19.7
2 11	7 19.73	+15 50.1	1.746	2.631	11.7	19.9
2 21	7 15.03	+15 12.1	1.830	2.635	15.0	20.2

159873 2004 RE_{36} 1 14.9 154°.46 0°.0/14.9 18

12 13	8 12.72	+19 18.5	1.755	2.582	14.4	21.0
12 23	8 6.36	+19 51.3	1.684	2.589	10.6	20.8
1 2	7 57.44	+20 31.8	1.637	2.595	6.2	20.5
1 12	7 46.86	+21 15.4	1.618	2.600	1.4	20.2
1 22	7 35.82	+21 57.2	1.629	2.605	3.4	20.4
2 1	7 25.67	+22 33.5	1.668	2.609	8.0	20.7
2 11	7 17.58	+23 2.1	1.734	2.613	12.1	20.9
2 21	7 12.26	+23 22.6	1.822	2.616	15.5	21.1

324594 2006 XX_{47} 1 14.9 22°.62 1°.2/15.2 18

12 13	8 12.60	+20 34.5	1.482	2.321	16.0	19.6
12 23	8 6.46	+19 53.2	1.416	2.326	11.8	19.4
1 2	7 57.52	+19 15.0	1.374	2.332	7.0	19.1
1 12	7 46.87	+18 38.8	1.357	2.338	2.1	18.9
1 22	7 35.92	+18 4.1	1.369	2.345	3.8	19.0
2 1	7 26.16	+17 31.1	1.407	2.353	8.7	19.3
2 11	7 18.80	+17 0.3	1.471	2.361	13.1	19.6
2 21	7 14.52	+16 32.0	1.556	2.370	16.8	19.8

469215 2016 GN_{251} 1 14.9 328°.01 7°.2/18.1 18

12 13	8 5.46	− 0 13.7	2.239	3.000	13.9	21.0
12 23	8 0.56	− 0 55.9	2.158	2.998	11.6	20.9
1 2	7 53.86	− 1 21.0	2.100	2.997	9.2	20.7
1 12	7 46.01	− 1 26.9	2.068	2.995	7.5	20.6
1 22	7 37.81	− 1 13.6	2.062	2.994	7.3	20.6
2 1	7 30.14	− 0 42.7	2.085	2.992	8.8	20.7
2 11	7 23.83	+ 0 1.8	2.133	2.991	11.0	20.8
2 21	7 19.44	+ 0 55.1	2.204	2.990	13.4	21.0

180578 2004 FL_{18} 1 14.9 312°.25 1°.1/14.6 18

12 13	8 7.81	+20 50.7	1.489	2.336	15.5	20.5
12 23	8 3.55	+21 35.7	1.396	2.311	11.5	20.1
1 2	7 56.24	+22 31.1	1.325	2.286	6.8	19.8
1 12	7 46.67	+23 31.7	1.280	2.262	1.8	19.4
1 22	7 36.11	+24 30.5	1.262	2.238	4.3	19.5
2 1	7 26.15	+25 21.5	1.271	2.215	9.6	19.8
2 11	7 18.36	+26 1.0	1.304	2.192	14.6	20.0
2 21	7 13.81	+26 28.0	1.357	2.170	18.9	20.2

393441 2001 TE_{162} 1 14.9 96°.60 3°.8/16.3 17

12 13	8 12.62	+11 37.6	1.516	2.335	16.7	21.4
12 23	8 6.32	+11 26.6	1.457	2.351	12.7	21.2
1 2	7 57.39	+11 30.2	1.420	2.367	8.3	21.0
1 12	7 46.84	+11 47.0	1.409	2.382	4.4	20.8
1 22	7 35.99	+12 14.1	1.426	2.397	4.8	20.9
2 1	7 26.23	+12 47.8	1.470	2.412	8.8	21.1
2 11	7 18.74	+13 24.0	1.540	2.427	12.8	21.4
2 21	7 14.17	+13 59.3	1.631	2.441	16.3	21.7

325882 2010 TT_{176} 1 14.9 24°.22 4°.0/14.2 18

12 13	8 14.77	+31 13.7	1.462	2.305	15.9	19.6
12 23	8 8.30	+31 17.2	1.400	2.311	11.9	19.4
1 2	7 58.67	+31 14.2	1.362	2.317	7.5	19.1
1 12	7 47.14	+30 59.1	1.349	2.324	4.2	19.0
1 22	7 35.34	+30 28.8	1.363	2.331	5.7	19.1
2 1	7 24.96	+29 44.1	1.405	2.339	9.9	19.3
2 11	7 17.34	+28 48.7	1.470	2.348	13.9	19.6
2 21	7 13.14	+27 47.4	1.557	2.357	17.4	19.8

108965 2001 PW_{37} 1 14.9 279°.63 4°.2/12.9 18

12 13	8 9.48	+32 10.0	2.248	3.078	11.6	19.2
12 23	8 3.80	+33 3.7	2.174	3.076	8.7	19.0
1 2	7 55.88	+33 54.3	2.126	3.074	5.9	18.8
1 12	7 46.51	+34 36.3	2.106	3.072	4.2	18.7
1 22	7 36.69	+35 5.1	2.116	3.070	5.4	18.8
2 1	7 27.59	+35 18.5	2.154	3.068	8.2	19.0
2 11	7 20.22	+35 17.0	2.218	3.066	11.1	19.2
2 21	7 15.26	+35 3.0	2.305	3.064	13.7	19.3

294683 2008 AG_{108} 1 14.9 81°.41 0°.5/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 11.63	+17 34.6	1.662	2.491	15.0	21.1
12 23	8 5.46	+18 10.7	1.608	2.513	11.0	20.9
1 2	7 56.82	+18 55.9	1.577	2.535	6.5	20.7
1 12	7 46.70	+19 45.5	1.574	2.556	1.6	20.4
1 22	7 36.33	+20 34.5	1.600	2.577	3.3	20.6
2 1	7 27.01	+21 18.6	1.655	2.598	7.8	20.9
2 11	7 19.81	+21 55.4	1.736	2.619	11.8	21.2
2 21	7 15.36	+22 24.0	1.839	2.640	15.1	21.5

432018 2008 VT_{18} 1 15.0 88°.22 3°.8/13.2 18

12 13	8 10.72	+30 34.0	2.166	2.996	11.9	21.3
12 23	8 4.59	+31 30.1	2.108	3.012	8.9	21.1
1 2	7 56.26	+32 23.5	2.077	3.027	5.8	21.0
1 12	7 46.57	+33 8.4	2.073	3.042	3.8	20.9
1 22	7 36.60	+33 40.6	2.100	3.058	5.1	21.0
2 1	7 27.47	+33 57.9	2.155	3.073	8.0	21.2
2 11	7 20.18	+34 1.0	2.236	3.087	10.9	21.4
2 21	7 15.32	+33 52.3	2.340	3.102	13.4	21.6

203115 2000 SH_{196} 1 15.0 34°.19 1°.7/14.5 18

12 13	8 11.69	+23 39.9	1.262	2.116	17.3	19.8
12 23	8 6.30	+24 3.0	1.206	2.124	12.7	19.6
1 2	7 57.65	+24 30.1	1.171	2.133	7.4	19.3
1 12	7 46.93	+24 55.2	1.161	2.142	2.2	19.0
1 22	7 35.81	+25 13.0	1.177	2.153	4.6	19.2
2 1	7 26.05	+25 20.4	1.219	2.163	9.9	19.5
2 11	7 19.08	+25 17.5	1.284	2.175	14.6	19.8
2 21	7 15.63	+25 6.0	1.369	2.186	18.5	20.1

6459 Hidesan 1 15.0 75°.40 4°.1/17.2 18

12 13	8 6.03	+ 7 22.4	2.148	2.944	13.2	17.2
12 23	8 0.97	+ 7 25.4	2.078	2.954	10.3	17.0
1 2	7 54.08	+ 7 42.9	2.031	2.965	7.2	16.8
1 12	7 46.06	+ 8 14.0	2.011	2.975	4.6	16.7
1 22	7 37.77	+ 8 56.3	2.021	2.985	4.6	16.7
2 1	7 30.10	+ 9 46.5	2.059	2.995	7.1	16.9
2 11	7 23.90	+10 40.5	2.125	3.006	10.1	17.1
2 21	7 19.71	+11 34.6	2.214	3.016	12.9	17.3

106924 2000 YT_{57} 1 15.0 331°.76 1°.1/15.4 18

12 13	8 7.42	+17 10.1	1.316	2.164	17.0	19.9
12 23	8 3.28	+17 26.7	1.238	2.152	12.7	19.6
1 2	7 56.04	+17 56.0	1.181	2.141	7.7	19.3
1 12	7 46.61	+18 34.5	1.149	2.131	2.3	18.9
1 22	7 36.41	+19 17.1	1.143	2.121	4.0	19.0
2 1	7 27.09	+19 58.4	1.162	2.112	9.6	19.3
2 11	7 20.18	+20 34.6	1.205	2.104	14.7	19.5
2 21	7 16.62	+21 3.4	1.267	2.097	19.0	19.8

3191 Svanetia 1 15.0 235°.89 1°.3/14.5 18

12 13	8 8.86	+23 24.5	2.065	2.897	12.4	16.9
12 23	8 3.32	+23 52.9	1.988	2.896	9.1	16.7
1 2	7 55.59	+24 24.2	1.936	2.895	5.3	16.5
1 12	7 46.44	+24 54.6	1.913	2.894	1.6	16.2
1 22	7 36.89	+25 20.3	1.919	2.893	3.4	16.4
2 1	7 28.04	+25 38.7	1.954	2.892	7.3	16.6
2 11	7 20.91	+25 48.9	2.016	2.891	10.8	16.8
2 21	7 16.14	+25 51.4	2.101	2.890	13.9	17.0

176968 2002 XO_{56} 1 15.0 116°.91 3°.5/14.1 18

12 13	8 17.55	+31 20.8	1.919	2.743	13.5	20.3
12 23	8 9.64	+31 28.8	1.856	2.756	10.0	20.1
1 2	7 59.19	+31 31.0	1.818	2.769	6.4	19.9
1 12	7 47.25	+31 22.6	1.809	2.782	3.6	19.8
1 22	7 35.16	+31 1.0	1.829	2.794	4.9	19.9
2 1	7 24.27	+30 26.5	1.879	2.806	8.3	20.1
2 11	7 15.67	+29 42.1	1.956	2.817	11.8	20.3
2 21	7 9.98	+28 51.3	2.055	2.828	14.7	20.5

73949 1997 TT_{12} 1 15.0 35°.75 1°.1/14.6 18

12 13	8 8.58	+23 5.4	1.726	2.567	14.0	18.7
12 23	8 3.25	+23 25.8	1.669	2.581	10.2	18.5
1 2	7 55.55	+23 49.3	1.636	2.596	5.9	18.3
1 12	7 46.42	+24 11.8	1.630	2.612	1.6	18.1
1 22	7 37.04	+24 29.4	1.653	2.628	3.6	18.2
2 1	7 28.66	+24 40.1	1.703	2.645	7.8	18.5
2 11	7 22.31	+24 43.2	1.779	2.662	11.6	18.8
2 21	7 18.59	+24 39.4	1.877	2.680	14.8	19.0

199067 2005 XO_{32} 1 15.0 48°.34 1°.2/14.6 17

12 13	8 11.63	+20 57.9	1.206	2.059	17.9	19.9
12 23	8 6.32	+21 45.1	1.155	2.073	13.1	19.7
1 2	7 57.69	+22 41.1	1.124	2.086	7.6	19.4
1 12	7 46.96	+23 38.5	1.118	2.100	2.0	19.1
1 22	7 35.81	+24 29.8	1.139	2.115	4.6	19.3
2 1	7 26.05	+25 9.6	1.185	2.130	10.0	19.7
2 11	7 19.13	+25 36.2	1.254	2.145	14.8	20.0
2 21	7 15.79	+25 50.4	1.343	2.161	18.7	20.3