144648 2004 FH_{105} 1 10.9 198°.28 8°.1/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 50.46	− 8 5.4	3.146	3.779	12.6	20.7
12 13	7 46.14	− 9 11.6	3.051	3.776	11.3	20.6
12 23	7 40.25	−10 4.0	2.976	3.772	9.9	20.5
1 2	7 33.17	−10 39.2	2.925	3.768	8.7	20.4
1 12	7 25.45	−10 55.0	2.899	3.764	8.1	20.4
1 22	7 17.70	−10 51.1	2.901	3.760	8.3	20.4
2 1	7 10.58	−10 28.7	2.929	3.755	9.3	20.4
2 11	7 4.66	− 9 51.0	2.981	3.750	10.6	20.5

116821 2004 FF_{12} 1 11.0 262°.39 3°.8/11.9 18

12 3	7 54.32	+12 47.2	1.921	2.679	16.0	20.4
12 13	7 50.34	+12 14.6	1.821	2.668	13.0	20.2
12 23	7 43.76	+11 51.3	1.742	2.657	9.6	20.0
1 2	7 35.08	+11 38.4	1.688	2.646	5.9	19.7
1 12	7 25.23	+11 35.7	1.662	2.635	3.8	19.6
1 22	7 15.32	+11 42.3	1.664	2.624	6.0	19.7
2 1	7 6.52	+11 56.4	1.695	2.612	9.8	19.9
2 11	6 59.83	+12 15.5	1.750	2.601	13.5	20.1

486051 2012 TJ_{181} 1 11.0 314°.66 0°.3/10.9 18

12 3	7 57.64	+22 35.8	1.318	2.119	19.8	21.7
12 13	7 54.29	+22 30.5	1.236	2.114	15.8	21.4
12 23	7 47.18	+22 30.9	1.172	2.109	11.0	21.2
1 2	7 36.96	+22 33.9	1.131	2.104	5.4	20.8
1 12	7 25.02	+22 35.4	1.116	2.100	0.7	20.5
1 22	7 13.17	+22 32.5	1.128	2.095	6.7	20.9
2 1	7 3.23	+22 24.3	1.164	2.091	12.2	21.2
2 11	6 56.57	+22 11.8	1.222	2.088	17.1	21.4

203083 2000 QT_{95} 1 11.0 79°.03 2°.5/10.4 18

12 3	8 0.35	+26 38.1	1.523	2.312	18.1	20.6
12 13	7 55.69	+26 59.7	1.456	2.328	14.3	20.4
12 23	7 47.62	+27 23.7	1.410	2.343	9.8	20.1
1 2	7 36.94	+27 44.6	1.389	2.359	5.1	19.9
1 12	7 25.04	+27 57.3	1.394	2.374	2.6	19.8
1 22	7 13.56	+27 58.7	1.428	2.390	6.5	20.1
2 1	7 4.01	+27 48.8	1.488	2.405	10.9	20.4
2 11	6 57.45	+27 30.1	1.572	2.420	14.8	20.6

303247 2004 QE_{10} 1 11.0 80°.68 1°.7/10.4 18

12 3	7 58.25	+22 28.3	1.494	2.283	18.4	20.5
12 13	7 54.13	+23 19.0	1.427	2.299	14.5	20.3
12 23	7 46.65	+24 18.3	1.380	2.314	9.9	20.1
1 2	7 36.53	+25 20.3	1.358	2.330	4.9	19.8
1 12	7 25.08	+26 17.8	1.364	2.345	2.0	19.7
1 22	7 13.90	+27 5.0	1.397	2.361	6.4	20.0
2 1	7 4.52	+27 39.0	1.457	2.376	11.0	20.3
2 11	6 58.06	+28 0.2	1.541	2.391	15.0	20.6

495255 2013 PE_{16} 1 11.0 197°.77 3°.8/12.8 18

12 3	7 53.08	+ 7 51.7	2.614	3.337	13.0	22.5
12 13	7 48.55	+ 7 50.8	2.512	3.334	10.7	22.3
12 23	7 42.09	+ 8 1.5	2.431	3.329	8.1	22.1
1 2	7 34.14	+ 8 24.3	2.378	3.325	5.4	21.9
1 12	7 25.35	+ 8 58.3	2.353	3.319	3.8	21.8
1 22	7 16.53	+ 9 41.4	2.360	3.313	5.0	21.9
2 1	7 8.49	+10 30.7	2.397	3.306	7.7	22.0
2 11	7 1.94	+11 23.0	2.461	3.299	10.5	22.2

212042 2005 CJ_{58} 1 11.0 257°.84 0°.5/11.1 18

12 3	7 56.89	+20 50.4	1.734	2.513	16.6	20.5
12 13	7 52.74	+20 40.9	1.640	2.506	13.3	20.2
12 23	7 45.60	+20 36.6	1.567	2.498	9.2	20.0
1 2	7 36.03	+20 35.8	1.520	2.490	4.6	19.7
1 12	7 25.13	+20 35.8	1.500	2.483	0.7	19.4
1 22	7 14.25	+20 34.7	1.508	2.475	5.5	19.7
2 1	7 4.76	+20 31.3	1.544	2.467	10.2	20.0
2 11	6 57.79	+20 25.7	1.605	2.459	14.3	20.2

258122 2001 QX_{292} 1 11.0 121°.69 1°.0/11.3 18

12 3	7 57.39	+19 26.3	2.094	2.856	14.7	20.9
12 13	7 52.30	+19 14.4	2.013	2.868	11.7	20.7
12 23	7 44.77	+19 7.7	1.955	2.880	8.0	20.5
1 2	7 35.43	+19 4.6	1.923	2.892	4.1	20.3
1 12	7 25.22	+19 3.4	1.921	2.904	1.0	20.1
1 22	7 15.23	+19 2.7	1.950	2.915	4.6	20.4
2 1	7 6.50	+19 1.5	2.007	2.926	8.4	20.6
2 11	6 59.84	+18 59.5	2.090	2.936	11.8	20.9

381945 2010 DZ_{11} 1 11.0 74°.13 1°.3/11.7 18

12 3	7 51.48	+14 38.0	2.285	3.042	13.7	20.6
12 13	7 47.60	+15 15.0	2.198	3.049	10.9	20.4
12 23	7 41.59	+16 3.0	2.134	3.057	7.6	20.2
1 2	7 33.92	+16 59.8	2.097	3.064	4.0	20.0
1 12	7 25.38	+18 2.0	2.090	3.072	1.3	19.8
1 22	7 16.87	+19 5.4	2.113	3.079	4.2	20.0
2 1	7 9.32	+20 6.4	2.166	3.086	7.8	20.3
2 11	7 3.49	+21 2.3	2.246	3.094	11.0	20.5

17742 1998 BP_{25} 1 11.0 292°.42 0°.5/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 51.05	+19 2.6	2.318	3.087	13.3	18.5
12 13	7 47.41	+19 14.3	2.213	3.073	10.6	18.3
12 23	7 41.57	+19 32.6	2.131	3.059	7.3	18.1
1 2	7 33.97	+19 55.9	2.075	3.046	3.7	17.9
1 12	7 25.37	+20 21.7	2.049	3.032	0.6	17.6
1 22	7 16.70	+20 47.5	2.052	3.018	4.3	17.8
2 1	7 8.93	+21 11.0	2.085	3.005	8.1	18.0
2 11	7 2.89	+21 31.2	2.143	2.992	11.4	18.2

15480 1999 CB_{14} 1 11.0 4°.37 2°.4/12.1 18

12 3	7 50.37	+12 42.0	2.096	2.857	14.7	17.6
12 13	7 46.95	+12 58.1	2.006	2.857	11.9	17.4
12 23	7 41.27	+13 26.4	1.937	2.857	8.5	17.2
1 2	7 33.81	+14 6.0	1.894	2.857	4.9	17.0
1 12	7 25.40	+14 54.4	1.880	2.858	2.4	16.8
1 22	7 16.99	+15 48.0	1.894	2.859	4.8	17.0
2 1	7 9.58	+16 43.1	1.938	2.860	8.4	17.2
2 11	7 4.01	+17 36.3	2.007	2.862	11.8	17.4

38935 2000 SC_{239} 1 11.0 75°.79 0°.4/11.2 18

12 3	7 55.76	+18 0.7	1.925	2.693	15.6	19.0
12 13	7 51.19	+18 34.8	1.859	2.718	12.3	18.9
12 23	7 44.10	+19 18.1	1.814	2.742	8.4	18.7
1 2	7 35.12	+20 7.1	1.797	2.767	4.1	18.5
1 12	7 25.27	+20 57.6	1.808	2.791	0.5	18.2
1 22	7 15.67	+21 45.4	1.850	2.816	4.7	18.6
2 1	7 7.42	+22 27.5	1.920	2.839	8.7	18.9
2 11	7 1.33	+23 2.7	2.015	2.863	12.1	19.1

338979 2004 FC_{105} 1 11.0 159°.86 0°.7/10.7 18

12 3	7 52.25	+23 9.6	2.663	3.427	11.8	21.5
12 13	7 47.94	+23 27.3	2.571	3.430	9.3	21.3
12 23	7 41.67	+23 48.2	2.503	3.432	6.4	21.2
1 2	7 33.92	+24 9.9	2.463	3.434	3.1	20.9
1 12	7 25.40	+24 29.9	2.453	3.436	0.8	20.8
1 22	7 16.94	+24 46.1	2.474	3.438	4.0	21.0
2 1	7 9.36	+24 57.3	2.525	3.439	7.1	21.2
2 11	7 3.38	+25 3.3	2.602	3.441	10.0	21.4

417450 2006 PM_{25} 1 11.0 235°.35 2°.8/ 9.9 17

12 3	7 56.45	+31 27.7	2.986	3.742	10.9	21.9
12 13	7 51.23	+31 49.2	2.876	3.726	8.7	21.7
12 23	7 43.95	+32 9.2	2.790	3.710	6.2	21.6
1 2	7 35.06	+32 24.3	2.733	3.694	3.7	21.4
1 12	7 25.28	+32 31.5	2.706	3.677	2.9	21.3
1 22	7 15.48	+32 28.9	2.711	3.659	4.8	21.4
2 1	7 6.54	+32 16.1	2.746	3.641	7.4	21.5
2 11	6 59.22	+31 54.5	2.807	3.622	10.0	21.7

394806 2008 RV_{97} 1 11.0 79°.52 3°.4/10.1 17

12 3	8 0.91	+27 21.3	1.484	2.275	18.4	21.4
12 13	7 56.26	+28 5.9	1.422	2.294	14.6	21.2
12 23	7 48.09	+28 53.4	1.381	2.313	10.1	21.0
1 2	7 37.20	+29 36.9	1.364	2.332	5.5	20.8
1 12	7 25.05	+30 9.5	1.374	2.351	3.5	20.7
1 22	7 13.33	+30 27.0	1.412	2.370	7.0	20.9
2 1	7 3.62	+30 29.1	1.477	2.389	11.4	21.2
2 11	6 57.01	+30 18.6	1.564	2.407	15.2	21.5

256872 2008 DB_{15} 1 11.0 342°.55 2°.4/11.7 18

12 3	7 52.18	+15 24.7	1.585	2.369	17.7	20.5
12 13	7 49.20	+15 19.6	1.498	2.364	14.3	20.3
12 23	7 43.27	+15 26.1	1.431	2.360	10.2	20.0
1 2	7 34.95	+15 43.7	1.388	2.356	5.6	19.7
1 12	7 25.30	+16 10.0	1.372	2.352	2.4	19.5
1 22	7 15.67	+16 41.6	1.383	2.349	5.8	19.7
2 1	7 7.42	+17 15.2	1.420	2.347	10.5	20.0
2 11	7 1.66	+17 47.8	1.481	2.345	14.7	20.2

336466 2008 VJ_{4} 1 11.0 8°.08 6°.1/12.2 18

12 3	7 51.25	+ 9 32.3	1.716	2.480	17.4	19.5
12 13	7 48.00	+ 8 21.8	1.636	2.481	14.4	19.3
12 23	7 42.14	+ 7 22.3	1.576	2.484	11.0	19.1
1 2	7 34.28	+ 6 37.1	1.540	2.487	7.8	18.9
1 12	7 25.40	+ 6 8.4	1.531	2.492	6.1	18.8
1 22	7 16.66	+ 5 56.3	1.548	2.497	7.6	18.9
2 1	7 9.20	+ 5 59.5	1.591	2.503	10.7	19.1
2 11	7 3.93	+ 6 14.4	1.658	2.510	14.0	19.3

206806 2004 DT_{51} 1 11.0 288°.68 2°.8/12.3 18

12 3	7 50.11	+11 47.0	2.377	3.127	13.5	20.4
12 13	7 46.48	+11 50.9	2.280	3.123	10.9	20.2
12 23	7 40.82	+12 5.6	2.205	3.119	7.9	20.0
1 2	7 33.58	+12 30.6	2.156	3.115	4.8	19.8
1 12	7 25.48	+13 4.4	2.135	3.111	2.8	19.7
1 22	7 17.36	+13 44.7	2.145	3.107	4.6	19.8
2 1	7 10.10	+14 28.4	2.184	3.103	7.8	20.0
2 11	7 4.45	+15 12.9	2.249	3.099	10.9	20.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
306923 2001 UX_{31}			1 11.0	27°.28	7°.6/13.9	18
	h m	° ′			°	m
12 3	7 50.25	+ 3 40.5	1.488	2.245	19.9	20.2
12 13	7 47.54	+ 3 6.2	1.419	2.255	16.7	20.0
12 23	7 42.00	+ 2 53.5	1.368	2.265	13.2	19.8
1 2	7 34.26	+ 3 5.5	1.339	2.277	9.7	19.7
1 12	7 25.41	+ 3 42.3	1.334	2.289	7.7	19.6
1 22	7 16.74	+ 4 40.4	1.355	2.302	8.6	19.7
2 1	7 9.51	+ 5 53.8	1.400	2.316	11.6	19.9
2 11	7 4.70	+ 7 14.9	1.469	2.330	15.0	20.1
162651 2000 SU_{228}			1 11.0	142°.31	1°.3/11.4	18
12 3	7 58.13	+17 34.1	1.906	2.669	15.9	21.0
12 13	7 53.20	+17 36.6	1.824	2.679	12.7	20.8
12 23	7 45.60	+17 47.3	1.764	2.689	8.8	20.6
1 2	7 35.94	+18 4.5	1.729	2.698	4.5	20.3
1 12	7 25.23	+18 25.3	1.724	2.706	1.3	20.1
1 22	7 14.67	+18 47.1	1.748	2.714	5.0	20.4
2 1	7 5.45	+19 7.7	1.801	2.721	9.1	20.7
2 11	6 58.50	+19 25.8	1.879	2.727	12.8	20.9
209860 2005 JX_{34}			1 11.0	201°.05	4°.2/ 9.4	18
12 3	7 59.53	+31 48.9	2.198	2.966	13.9	21.2
12 13	7 54.47	+32 39.5	2.106	2.962	11.2	21.0
12 23	7 46.62	+33 30.2	2.037	2.958	8.1	20.8
1 2	7 36.51	+34 14.9	1.995	2.954	5.2	20.6
1 12	7 25.15	+34 48.0	1.982	2.948	4.3	20.5
1 22	7 13.79	+35 5.7	1.999	2.942	6.6	20.6
2 1	7 3.69	+35 7.3	2.044	2.936	9.8	20.8
2 11	6 55.90	+34 54.9	2.114	2.929	12.8	21.0
276236 2002 RF_{55}			1 11.0	74°.87	4°.4/12.2	18
12 3	7 58.59	+12 24.6	1.344	2.121	20.7	20.4
12 13	7 54.32	+11 55.8	1.282	2.141	16.7	20.2
12 23	7 46.69	+11 42.0	1.239	2.160	12.1	20.0
1 2	7 36.52	+11 43.7	1.218	2.180	7.3	19.8
1 12	7 25.17	+11 59.5	1.224	2.199	4.4	19.6
1 22	7 14.24	+12 26.2	1.256	2.218	7.0	19.8
2 1	7 5.20	+12 59.7	1.314	2.237	11.5	20.1
2 11	6 59.11	+13 36.0	1.394	2.256	15.6	20.4
176209 2001 QV_{20}			1 11.0	175°.82	5°.1/ 9.5	18
12 3	8 2.18	+36 8.4	2.224	2.985	14.0	20.5
12 13	7 56.47	+36 44.2	2.139	2.987	11.3	20.3
12 23	7 47.88	+37 15.5	2.076	2.989	8.4	20.1
1 2	7 37.06	+37 36.3	2.040	2.990	5.9	20.0
1 12	7 25.11	+37 41.4	2.033	2.990	5.2	19.9
1 22	7 13.36	+37 28.7	2.055	2.991	7.0	20.1
2 1	7 3.10	+36 59.0	2.105	2.990	9.9	20.2
2 11	6 55.30	+36 16.2	2.181	2.989	12.7	20.4
113926 2002 TL_{288}			1 11.0	51°.36	6°.2/ 8.5	18
12 3	7 57.30	+38 35.5	2.245	3.012	13.7	19.3
12 13	7 52.80	+39 36.9	2.167	3.016	11.2	19.2
12 23	7 45.48	+40 33.6	2.112	3.019	8.7	19.0
1 2	7 35.93	+41 18.8	2.084	3.022	6.7	18.9
1 12	7 25.24	+41 46.6	2.083	3.026	6.4	18.9
1 22	7 14.66	+41 54.0	2.110	3.029	8.0	19.0
2 1	7 5.49	+41 41.5	2.164	3.033	10.4	19.1
2 11	6 58.71	+41 12.3	2.242	3.037	12.9	19.3
65716 Ohkinohama			1 11.0	29°.68	2°.6/10.8	18
12 3	7 59.77	+29 8.7	1.238	2.046	20.5	18.2
12 13	7 55.90	+28 52.0	1.177	2.058	16.2	18.0
12 23	7 48.06	+28 32.7	1.134	2.071	11.2	17.8
1 2	7 37.23	+28 6.3	1.114	2.085	5.8	17.5
1 12	7 25.12	+27 29.2	1.120	2.100	2.7	17.3
1 22	7 13.66	+26 41.7	1.151	2.116	7.0	17.7
2 1	7 4.60	+25 46.8	1.208	2.133	12.1	18.0
2 11	6 59.01	+24 49.1	1.286	2.151	16.4	18.3
441622 2008 UP_{366}			1 11.0	86°.39	1°.6/10.5	18
12 3	8 3.04	+23 28.6	1.614	2.390	17.8	21.6
12 13	7 57.36	+24 5.6	1.558	2.422	13.9	21.4
12 23	7 48.51	+24 47.8	1.522	2.453	9.5	21.2
1 2	7 37.31	+25 29.8	1.513	2.483	4.6	21.0
1 12	7 25.11	+26 5.9	1.531	2.513	1.7	20.8
1 22	7 13.42	+26 32.3	1.579	2.542	5.9	21.2
2 1	7 3.62	+26 47.6	1.655	2.570	10.2	21.5
2 11	6 56.66	+26 53.3	1.756	2.598	13.8	21.8
886 Washingtonia			1 11.0	75°.57	5°.6/ 8.4	18
12 3	7 58.71	+36 23.1	2.343	3.107	13.3	14.4
12 13	7 53.55	+37 40.3	2.285	3.134	10.7	14.2
12 23	7 45.76	+38 53.5	2.251	3.160	8.1	14.1
1 2	7 35.98	+39 56.0	2.244	3.186	6.0	14.0
1 12	7 25.25	+40 42.3	2.266	3.212	5.7	14.1
1 22	7 14.75	+41 9.3	2.317	3.238	7.3	14.2
2 1	7 5.62	+41 17.1	2.396	3.263	9.6	14.4
2 11	6 58.74	+41 8.8	2.498	3.288	11.9	14.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
104127 2000 EG_{59}			1 11.0	270°.47	0°.2/11.1	18 R
	h m	° ′			°	m
12 3	7 52.51	+20 9.8	2.337	3.104	13.2	20.3
12 13	7 48.56	+20 19.2	2.231	3.090	10.5	20.1
12 23	7 42.38	+20 34.3	2.148	3.077	7.3	19.8
1 2	7 34.40	+20 53.1	2.092	3.063	3.6	19.6
1 12	7 25.42	+21 13.2	2.066	3.049	0.4	19.3
1 22	7 16.36	+21 32.3	2.069	3.035	4.3	19.6
2 1	7 8.22	+21 48.5	2.102	3.021	8.1	19.8
2 11	7 1.85	+22 1.0	2.161	3.007	11.4	20.0
460293 2014 QR_{361}			1 11.0	112°.48	6°.6/14.1	18
12 3	7 54.25	+ 1 38.6	2.098	2.809	16.2	21.7
12 13	7 49.74	+ 1 15.7	2.022	2.825	13.7	21.6
12 23	7 43.02	+ 1 10.4	1.966	2.842	10.9	21.4
1 2	7 34.63	+ 1 24.5	1.934	2.858	8.2	21.3
1 12	7 25.42	+ 1 58.0	1.929	2.873	6.7	21.2
1 22	7 16.35	+ 2 48.5	1.953	2.888	7.3	21.3
2 1	7 8.39	+ 3 51.7	2.004	2.903	9.6	21.5
2 11	7 2.29	+ 5 2.4	2.082	2.917	12.2	21.7
495042 2010 XO_{28}			1 11.0	79°.85	0°.5/11.2	18
12 3	7 55.73	+20 21.3	1.842	2.618	15.9	21.9
12 13	7 51.48	+20 17.1	1.761	2.624	12.6	21.7
12 23	7 44.51	+20 18.6	1.700	2.630	8.7	21.4
1 2	7 35.45	+20 24.0	1.666	2.636	4.3	21.2
1 12	7 25.34	+20 30.6	1.659	2.642	0.7	20.9
1 22	7 15.39	+20 36.3	1.682	2.648	5.0	21.3
2 1	7 6.81	+20 39.9	1.732	2.654	9.3	21.5
2 11	7 0.54	+20 41.0	1.808	2.660	13.0	21.8
26074 Carlwirtz			1 11.0	299°.79	4°.7/ 8.2	18
12 3	8 2.76	+11 38.3	0.979	1.776	25.4	17.4
12 13	8 0.68	+15 22.7	0.887	1.765	20.6	17.0
12 23	7 53.59	+20 12.2	0.815	1.754	14.2	16.6
1 2	7 41.23	+25 54.1	0.770	1.743	7.1	16.2
1 12	7 24.58	+31 53.1	0.756	1.732	5.8	16.0
1 22	7 6.00	+37 22.6	0.772	1.722	12.8	16.4
2 1	6 48.93	+41 48.8	0.816	1.712	19.9	16.7
2 11	6 36.65	+45 4.7	0.881	1.703	25.7	17.1
275771 2001 PU_{36}			1 11.0	139°.45	3°.2/ 9.5	18
12 3	7 54.95	+30 33.0	2.650	3.415	11.9	20.8
12 13	7 50.24	+31 20.1	2.567	3.423	9.4	20.6
12 23	7 43.36	+32 7.2	2.508	3.431	6.7	20.5
1 2	7 34.82	+32 49.8	2.477	3.438	4.1	20.3
1 12	7 25.42	+33 24.0	2.476	3.445	3.3	20.3
1 22	7 16.09	+33 46.9	2.505	3.451	5.3	20.4
2 1	7 7.76	+33 57.8	2.564	3.457	8.0	20.6
2 11	7 1.21	+33 57.7	2.648	3.463	10.5	20.8
169633 2002 HQ_{12}			1 11.0	193°.66	1°.8/10.1	18
12 3	7 58.34	+22 57.2	2.149	2.914	14.3	20.9
12 13	7 53.48	+24 0.0	2.053	2.912	11.3	20.7
12 23	7 45.95	+25 10.5	1.981	2.909	7.8	20.5
1 2	7 36.24	+26 23.8	1.936	2.906	3.9	20.2
1 12	7 25.26	+27 34.0	1.922	2.902	2.0	20.1
1 22	7 14.14	+28 35.5	1.938	2.897	5.4	20.3
2 1	7 4.12	+29 25.2	1.984	2.891	9.2	20.5
2 11	6 56.23	+30 2.2	2.057	2.885	12.6	20.7
412807 2014 PC_{30}			1 11.0	217°.18	2°.2/10.3	17
12 3	7 59.96	+26 38.8	2.067	2.835	14.7	22.8
12 13	7 54.87	+27 4.3	1.967	2.826	11.7	22.5
12 23	7 46.95	+27 32.3	1.889	2.817	8.1	22.3
1 2	7 36.73	+27 58.4	1.839	2.807	4.3	22.0
1 12	7 25.21	+28 18.0	1.817	2.796	2.3	21.9
1 22	7 13.63	+28 27.9	1.826	2.785	5.6	22.1
2 1	7 3.31	+28 27.2	1.864	2.773	9.6	22.3
2 11	6 55.32	+28 17.0	1.926	2.760	13.2	22.5
264723 2002 CB_{76}			1 11.0	281°.37	0°.5/11.2	18
12 3	7 52.82	+18 27.6	1.988	2.761	15.0	20.6
12 13	7 49.24	+18 50.7	1.889	2.751	12.0	20.4
12 23	7 43.09	+19 23.1	1.811	2.740	8.3	20.2
1 2	7 34.86	+20 2.4	1.758	2.729	4.1	19.9
1 12	7 25.41	+20 45.1	1.735	2.718	0.6	19.6
1 22	7 15.86	+21 27.4	1.741	2.707	4.9	19.9
2 1	7 7.37	+22 6.0	1.775	2.696	9.1	20.1
2 11	7 0.96	+22 39.0	1.834	2.686	12.9	20.3
204997 1996 VE_{13}			1 11.0	96°.79	1°.5/10.5	17
12 3	8 0.80	+23 57.2	1.759	2.534	16.6	20.3
12 13	7 55.49	+24 28.4	1.694	2.558	13.0	20.1
12 23	7 47.23	+25 4.0	1.651	2.581	8.9	19.9
1 2	7 36.74	+25 39.5	1.633	2.604	4.4	19.7
1 12	7 25.23	+26 9.8	1.645	2.626	1.7	19.6
1 22	7 14.09	+26 31.4	1.685	2.648	5.6	19.9
2 1	7 4.60	+26 43.2	1.754	2.669	9.7	20.2
2 11	6 57.72	+26 46.1	1.848	2.689	13.3	20.5

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
358341 2006 VH_{112}			1 11.0 100°.62	4°.5/ 9.6 18		
	h m	° ′			°	m
12 3	8 3.60	+33 29.7	2.112	2.874	14.6	21.1
12 13	7 57.38	+34 16.4	2.051	2.902	11.6	21.0
12 23	7 48.33	+34 59.9	2.012	2.930	8.4	20.8
1 2	7 37.21	+35 33.9	2.001	2.956	5.5	20.7
1 12	7 25.18	+35 53.4	2.019	2.982	4.6	20.7
1 22	7 13.57	+35 56.1	2.067	3.007	6.6	20.9
2 1	7 3.59	+35 43.0	2.143	3.032	9.6	21.1
2 11	6 56.12	+35 17.3	2.244	3.055	12.3	21.3
267451 2002 DD_{11}			1 11.0 270°.04	6°.0/ 7.9 17		
12 3	7 58.45	+35 22.7	2.256	3.024	13.6	21.1
12 13	7 54.07	+36 44.8	2.148	3.000	11.2	20.8
12 23	7 46.72	+38 7.7	2.064	2.976	8.5	20.6
1 2	7 36.78	+39 24.2	2.007	2.952	6.4	20.5
1 12	7 25.19	+40 26.4	1.978	2.927	6.2	20.4
1 22	7 13.22	+41 8.7	1.979	2.902	8.2	20.5
2 1	7 2.31	+41 29.1	2.006	2.876	11.1	20.6
2 11	6 53.74	+41 29.4	2.058	2.850	14.0	20.7
252456 2001 TF_{220}			1 11.0 47°.27	0°.2/11.1 18		
12 3	7 56.19	+21 42.2	1.648	2.433	17.1	20.4
12 13	7 52.10	+21 32.7	1.574	2.443	13.5	20.2
12 23	7 45.05	+21 28.1	1.522	2.454	9.3	20.0
1 2	7 35.73	+21 26.2	1.494	2.465	4.5	19.7
1 12	7 25.34	+21 24.3	1.493	2.476	0.5	19.4
1 22	7 15.24	+21 20.6	1.521	2.488	5.4	19.8
2 1	7 6.72	+21 14.4	1.576	2.500	9.9	20.1
2 11	7 0.77	+21 5.8	1.655	2.512	13.8	20.4
370636 2003 YA_{156}			1 11.0 12°.95	3°.4/11.3 18		
12 3	7 55.52	+17 47.8	1.650	2.430	17.3	19.6
12 13	7 51.45	+16 31.9	1.572	2.435	13.9	19.4
12 23	7 44.52	+15 19.5	1.515	2.440	9.9	19.2
1 2	7 35.45	+14 12.6	1.483	2.447	5.8	19.0
1 12	7 25.38	+13 13.1	1.479	2.455	3.5	18.8
1 22	7 15.60	+12 22.7	1.502	2.464	6.2	19.0
2 1	7 7.35	+11 42.3	1.553	2.474	10.3	19.3
2 11	7 1.55	+11 11.6	1.628	2.484	14.0	19.5
240874 2006 DG_{7}			1 11.0 217°.60	1°.3/11.4 18		
12 3	7 56.78	+17 22.7	1.867	2.634	16.1	21.4
12 13	7 52.46	+17 27.8	1.771	2.628	12.9	21.2
12 23	7 45.35	+17 41.9	1.695	2.621	9.0	20.9
1 2	7 35.97	+18 3.6	1.646	2.614	4.7	20.7
1 12	7 25.32	+18 29.8	1.625	2.607	1.3	20.4
1 22	7 14.60	+18 57.5	1.633	2.599	5.2	20.7
2 1	7 5.12	+19 24.0	1.669	2.591	9.6	20.9
2 11	6 57.92	+19 47.7	1.731	2.582	13.6	21.1
21827 Chingzhu			1 11.0 251°.01	2°.2/11.9 18		
12 3	7 54.16	+14 0.5	1.735	2.504	17.0	19.1
12 13	7 50.58	+14 15.6	1.642	2.499	13.7	18.9
12 23	7 44.16	+14 44.4	1.570	2.494	9.8	18.6
1 2	7 35.43	+15 25.7	1.523	2.489	5.4	18.3
1 12	7 25.38	+16 16.4	1.504	2.484	2.2	18.1
1 22	7 15.25	+17 11.9	1.513	2.479	5.5	18.3
2 1	7 6.37	+18 7.6	1.549	2.474	10.0	18.6
2 11	6 59.82	+19 0.0	1.611	2.468	14.1	18.8
336388 2008 UO_{86}			1 11.0 197°.28	0°.6/10.8 18		
12 3	7 53.62	+22 46.9	2.321	3.090	13.2	21.6
12 13	7 49.37	+23 0.5	2.229	3.089	10.4	21.5
12 23	7 42.88	+23 18.0	2.159	3.089	7.2	21.2
1 2	7 34.63	+23 36.8	2.117	3.088	3.5	21.0
1 12	7 25.48	+23 54.1	2.104	3.087	0.8	20.8
1 22	7 16.37	+24 7.7	2.121	3.085	4.4	21.1
2 1	7 8.29	+24 16.2	2.167	3.084	8.0	21.3
2 11	7 2.05	+24 19.4	2.240	3.083	11.2	21.5
249166 2008 BD_{33}			1 11.0 91°.06	2°.1/11.8 18		
12 3	7 54.53	+14 50.4	1.820	2.588	16.4	20.5
12 13	7 50.52	+14 58.8	1.741	2.597	13.1	20.3
12 23	7 43.87	+15 18.6	1.683	2.607	9.3	20.1
1 2	7 35.17	+15 48.4	1.650	2.616	5.0	19.9
1 12	7 25.42	+16 25.3	1.644	2.625	2.1	19.7
1 22	7 15.80	+17 5.7	1.668	2.634	5.2	19.9
2 1	7 7.47	+17 46.2	1.720	2.643	9.3	20.2
2 11	7 1.37	+18 24.2	1.797	2.652	13.0	20.5
351691 2006 BL_{67}			1 11.0 286°.79	0°.1/11.0 17		
12 3	7 54.98	+19 54.7	1.528	2.318	18.0	21.7
12 13	7 51.90	+20 16.7	1.431	2.303	14.5	21.4
12 23	7 45.50	+20 49.3	1.353	2.287	10.1	21.1
1 2	7 36.26	+21 29.6	1.300	2.272	5.0	20.8
1 12	7 25.28	+22 12.6	1.273	2.256	0.6	20.4
1 22	7 14.08	+22 53.2	1.274	2.241	6.2	20.8
2 1	7 4.30	+23 27.4	1.301	2.226	11.4	21.0
2 11	6 57.31	+23 53.6	1.351	2.211	16.1	21.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
184785 2005 TP_{47}			1 11.0 173°.24	1°.0/10.6 18		
	h m	° ′			°	m
12 3	7 56.51	+23 45.3	2.388	3.151	13.1	21.5
12 13	7 51.56	+24 6.5	2.297	3.154	10.3	21.4
12 23	7 44.34	+24 31.0	2.229	3.156	7.1	21.2
1 2	7 35.34	+24 56.0	2.188	3.158	3.5	20.9
1 12	7 25.42	+25 18.1	2.177	3.159	1.1	20.8
1 22	7 15.55	+25 34.8	2.198	3.160	4.5	21.0
2 1	7 6.74	+25 44.9	2.248	3.161	8.0	21.2
2 11	6 59.81	+25 48.5	2.324	3.160	11.1	21.4
332582 2008 SO_{97}			1 11.0 201°.52	2°.4/10.2 18		
12 3	7 55.34	+27 57.9	2.234	3.008	13.5	21.2
12 13	7 50.93	+28 23.5	2.145	3.007	10.7	21.0
12 23	7 44.05	+28 50.1	2.078	3.006	7.5	20.8
1 2	7 35.25	+29 13.8	2.037	3.005	4.1	20.6
1 12	7 25.43	+29 30.7	2.027	3.004	2.5	20.5
1 22	7 15.69	+29 38.3	2.045	3.003	5.3	20.7
2 1	7 7.11	+29 35.8	2.093	3.001	8.7	20.9
2 11	7 0.58	+29 24.5	2.166	3.000	11.9	21.1
433936 2015 DX_{75}			1 11.0 283°.96	0°.6/10.8 17		
12 3	7 52.13	+22 18.0	2.329	3.101	13.1	21.8
12 13	7 48.33	+22 38.0	2.227	3.089	10.4	21.6
12 23	7 42.27	+23 3.0	2.147	3.077	7.1	21.3
1 2	7 34.40	+23 30.2	2.094	3.065	3.5	21.1
1 12	7 25.53	+23 56.8	2.071	3.053	0.8	20.8
1 22	7 16.59	+24 19.8	2.077	3.042	4.5	21.1
2 1	7 8.59	+24 37.4	2.112	3.030	8.1	21.3
2 11	7 2.38	+24 49.1	2.174	3.018	11.4	21.5
30662 4256 T_{-1}			1 11.0 335°.50	2°.8/10.0 18		
12 3	7 53.44	+28 25.7	2.165	2.945	13.7	18.2
12 13	7 49.59	+28 57.9	2.075	2.941	10.9	18.0
12 23	7 43.22	+29 31.3	2.008	2.937	7.6	17.8
1 2	7 34.88	+30 1.8	1.967	2.934	4.3	17.6
1 12	7 25.48	+30 25.1	1.955	2.931	2.9	17.5
1 22	7 16.12	+30 38.1	1.972	2.928	5.6	17.7
2 1	7 7.92	+30 40.0	2.017	2.925	9.0	17.9
2 11	7 1.80	+30 31.7	2.087	2.923	12.2	18.1
359085 2008 YM_{154}			1 11.0 35°.27	1°.4/11.3 17		
12 3	7 55.79	+19 27.0	1.202	2.009	21.0	20.7
12 13	7 52.66	+19 9.4	1.143	2.023	16.7	20.5
12 23	7 45.87	+19 0.8	1.102	2.038	11.5	20.3
1 2	7 36.25	+18 59.5	1.083	2.054	5.8	20.0
1 12	7 25.35	+19 2.7	1.089	2.071	1.4	19.8
1 22	7 14.92	+19 7.5	1.120	2.089	6.5	20.1
2 1	7 6.58	+19 12.2	1.176	2.107	11.7	20.5
2 11	7 1.45	+19 15.6	1.254	2.126	16.2	20.8
144421 2004 EU_{16}			1 11.0 193°.28	1°.3/10.4 18		
12 3	7 52.54	+24 53.1	2.799	3.562	11.3	20.4
12 13	7 48.19	+25 22.2	2.703	3.561	8.9	20.2
12 23	7 41.91	+25 54.0	2.632	3.559	6.1	20.0
1 2	7 34.14	+26 25.6	2.588	3.558	3.1	19.8
1 12	7 25.58	+26 54.2	2.575	3.555	1.4	19.7
1 22	7 17.02	+27 17.2	2.593	3.553	4.1	19.9
2 1	7 9.29	+27 33.5	2.641	3.550	7.1	20.1
2 11	7 3.10	+27 42.8	2.715	3.547	9.8	20.3
233210 2005 XC_{62}			1 11.0 82°.75	0°.0/10.9 18		
12 3	8 1.80	+21 23.6	1.468	2.251	19.0	20.7
12 13	7 56.70	+21 27.8	1.407	2.275	15.0	20.5
12 23	7 48.25	+21 38.6	1.366	2.298	10.2	20.2
1 2	7 37.30	+21 52.5	1.350	2.322	4.9	20.0
1 12	7 25.26	+22 5.4	1.361	2.345	0.5	19.7
1 22	7 13.72	+22 14.4	1.401	2.367	5.8	20.2
2 1	7 4.15	+22 18.4	1.467	2.390	10.6	20.5
2 11	6 57.55	+22 17.8	1.557	2.411	14.6	20.8
193044 2000 FL_{2}			1 11.0 207°.67	0°.3/10.9 18		
12 3	7 57.56	+21 4.4	1.565	2.351	17.9	21.4
12 13	7 53.65	+21 19.9	1.480	2.350	14.2	21.1
12 23	7 46.47	+21 43.5	1.415	2.348	9.8	20.8
1 2	7 36.62	+22 11.7	1.375	2.346	4.8	20.6
1 12	7 25.32	+22 40.0	1.362	2.345	0.6	20.2
1 22	7 14.05	+23 4.2	1.376	2.343	5.9	20.6
2 1	7 4.36	+23 22.1	1.418	2.341	10.9	20.9
2 11	6 57.46	+23 33.0	1.483	2.338	15.2	21.1
159339 2006 EE_{14}			1 11.0 94°.75	0°.8/10.6 18		
12 3	7 49.95	+24 28.7	3.366	4.125	9.7	20.9
12 13	7 45.68	+24 43.7	3.284	4.140	7.6	20.8
12 23	7 39.92	+25 0.3	3.228	4.155	5.1	20.7
1 2	7 33.08	+25 16.4	3.200	4.170	2.5	20.5
1 12	7 25.72	+25 30.4	3.203	4.185	0.9	20.4
1 22	7 18.46	+25 40.9	3.238	4.200	3.2	20.6
2 1	7 11.92	+25 47.0	3.303	4.214	5.7	20.8
2 11	7 6.61	+25 48.8	3.395	4.229	8.0	20.9

205894 2002 GG_{50} 1 11.0 352°.44 3°.0/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 57.42	+29 17.0	1.258	2.069	20.0	19.5
12 13	7 54.45	+29 10.4	1.181	2.064	16.1	19.2
12 23	7 47.46	+29 1.8	1.122	2.059	11.3	18.9
1 2	7 37.21	+28 45.7	1.086	2.056	6.0	18.6
1 12	7 25.27	+28 17.6	1.074	2.054	3.2	18.4
1 22	7 13.61	+27 36.1	1.088	2.053	7.4	18.7
2 1	7 4.14	+26 43.7	1.126	2.052	12.7	19.0
2 11	6 58.19	+25 45.3	1.186	2.053	17.4	19.2

343223 2009 WD_{82} 1 11.0 115°.69 2°.0/10.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 5.07	+25 49.5	1.651	2.424	17.6	21.2
12 13	7 59.10	+26 11.0	1.584	2.446	13.9	21.0
12 23	7 49.84	+26 35.2	1.537	2.467	9.5	20.8
1 2	7 38.08	+26 56.8	1.517	2.487	4.8	20.6
1 12	7 25.19	+27 10.7	1.525	2.506	2.2	20.5
1 22	7 12.74	+27 14.1	1.562	2.524	6.1	20.8
2 1	7 2.20	+27 7.1	1.628	2.541	10.4	21.0
2 11	6 54.58	+26 51.9	1.718	2.558	14.2	21.3

486138 2012 XG_{7} 1 11.0 326°.21 2°.9/10.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.67	+25 11.7	1.348	2.152	19.3	21.6
12 13	7 53.68	+25 54.1	1.268	2.148	15.4	21.3
12 23	7 46.93	+26 43.9	1.207	2.144	10.7	21.0
1 2	7 37.01	+27 34.7	1.169	2.140	5.6	20.7
1 12	7 25.29	+28 18.8	1.157	2.136	3.0	20.6
1 22	7 13.58	+28 50.0	1.171	2.133	7.4	20.8
2 1	7 3.73	+29 5.6	1.210	2.130	12.5	21.1
2 11	6 57.18	+29 7.2	1.271	2.128	17.1	21.4

400264 2007 RW_{139} 1 11.0 132°.10 0°.3/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.52	+20 5.0	2.013	2.775	15.2	22.6
12 13	7 54.16	+20 14.3	1.935	2.790	12.0	22.4
12 23	7 46.20	+20 29.7	1.879	2.805	8.3	22.2
1 2	7 36.28	+20 48.7	1.849	2.819	4.0	22.0
1 12	7 25.40	+21 8.0	1.849	2.832	0.5	21.7
1 22	7 14.73	+21 25.1	1.880	2.845	4.7	22.0
2 1	7 5.40	+21 38.5	1.939	2.857	8.7	22.3
2 11	6 58.29	+21 47.7	2.025	2.868	12.2	22.6

20129 1996 BE_{1} 1 11.0 14°.90 1°.6/10.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.57	+23 20.2	1.681	2.474	16.5	18.0
12 13	7 49.47	+23 56.1	1.602	2.477	13.0	17.8
12 23	7 43.44	+24 38.7	1.545	2.480	8.9	17.5
1 2	7 35.09	+25 23.4	1.513	2.485	4.4	17.3
1 12	7 25.52	+26 5.0	1.508	2.490	1.7	17.1
1 22	7 16.05	+26 39.0	1.531	2.495	5.8	17.4
2 1	7 8.01	+27 3.0	1.581	2.501	10.1	17.6
2 11	7 2.46	+27 16.8	1.654	2.508	13.9	17.9

289045 2004 TZ_{160} 1 11.0 44°.26 5°.0/ 9.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.71	+29 38.5	1.188	1.999	20.9	20.0
12 13	7 56.12	+30 32.0	1.140	2.022	16.6	19.8
12 23	7 48.40	+31 26.3	1.110	2.045	11.6	19.6
1 2	7 37.53	+32 12.3	1.102	2.069	6.8	19.4
1 12	7 25.28	+32 41.5	1.119	2.093	5.1	19.4
1 22	7 13.72	+32 49.9	1.162	2.118	8.5	19.6
2 1	7 4.65	+32 38.6	1.229	2.144	12.9	20.0
2 11	6 59.22	+32 12.5	1.317	2.170	16.9	20.3

22691 1998 QD_{99} 1 11.1 78°.34 0°.5/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.75	+21 34.8	2.090	2.863	14.4	17.7
12 13	7 49.69	+21 57.5	2.007	2.870	11.3	17.5
12 23	7 43.21	+22 26.0	1.947	2.877	7.7	17.3
1 2	7 34.86	+22 57.2	1.913	2.884	3.8	17.1
1 12	7 25.56	+23 27.6	1.908	2.891	0.7	16.8
1 22	7 16.35	+23 54.2	1.933	2.898	4.7	17.1
2 1	7 8.31	+24 15.0	1.986	2.905	8.5	17.4
2 11	7 2.29	+24 29.6	2.065	2.912	11.9	17.6

115977 2003 WC_{56} 1 11.1 202°.85 1°.5/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.01	+17 42.6	2.493	3.247	12.8	20.2
12 13	7 49.43	+17 25.7	2.395	3.245	10.2	20.0
12 23	7 42.81	+17 13.7	2.320	3.242	7.2	19.8
1 2	7 34.61	+17 6.0	2.273	3.239	3.8	19.6
1 12	7 25.59	+17 1.7	2.255	3.236	1.5	19.4
1 22	7 16.62	+16 59.6	2.268	3.232	4.2	19.6
2 1	7 8.58	+16 58.8	2.311	3.229	7.5	19.8
2 11	7 2.19	+16 58.7	2.380	3.225	10.6	20.0

108996 2001 PR_{61} 1 11.1 109°.55 0°.0/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 48.82	+21 1.7	3.544	4.298	9.3	20.6
12 13	7 44.73	+21 14.7	3.458	4.311	7.3	20.5
12 23	7 39.25	+21 30.7	3.398	4.323	5.0	20.4
1 2	7 32.77	+21 48.3	3.366	4.336	2.4	20.2
1 12	7 25.80	+22 5.9	3.365	4.348	0.3	20.0
1 22	7 18.90	+22 22.1	3.396	4.361	2.9	20.3
2 1	7 12.63	+22 35.9	3.458	4.373	5.4	20.4
2 11	7 7.50	+22 46.8	3.547	4.385	7.6	20.6

238066 2003 EX_{32} 1 11.1 253°.23 3°.4/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.68	+28 21.1	1.641	2.427	17.1	20.8
12 13	7 55.53	+28 52.3	1.547	2.416	13.7	20.6
12 23	7 47.93	+29 26.0	1.475	2.406	9.7	20.3
1 2	7 37.44	+29 56.1	1.427	2.395	5.4	20.0
1 12	7 25.28	+30 16.3	1.407	2.384	3.5	19.9
1 22	7 13.06	+30 22.4	1.414	2.373	7.0	20.0
2 1	7 2.46	+30 13.4	1.449	2.361	11.5	20.3
2 11	6 54.80	+29 52.1	1.506	2.349	15.7	20.5

228403 2001 EA_{3} 1 11.1 55°.17 1°.0/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.77	+17 42.0	2.026	2.796	14.9	20.2
12 13	7 48.97	+17 54.4	1.941	2.800	11.8	20.0
12 23	7 42.75	+18 15.3	1.877	2.805	8.2	19.8
1 2	7 34.66	+18 42.7	1.840	2.809	4.2	19.5
1 12	7 25.59	+19 13.7	1.832	2.814	1.0	19.3
1 22	7 16.60	+19 45.3	1.852	2.819	4.6	19.6
2 1	7 8.74	+20 14.9	1.901	2.824	8.6	19.8
2 11	7 2.89	+20 41.0	1.976	2.829	12.1	20.1

136548 6329 $P\text{–}L$ 1 11.1 73°.80 2°.5/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.69	+13 30.1	2.355	3.107	13.5	20.3
12 13	7 47.61	+13 20.3	2.274	3.120	10.9	20.1
12 23	7 41.53	+13 19.2	2.216	3.133	7.8	20.0
1 2	7 33.97	+13 26.4	2.185	3.146	4.6	19.8
1 12	7 25.68	+13 40.8	2.182	3.159	2.5	19.7
1 22	7 17.53	+14 0.5	2.210	3.172	4.5	19.8
2 1	7 10.35	+14 23.5	2.266	3.185	7.6	20.0
2 11	7 4.83	+14 47.8	2.349	3.198	10.5	20.2

76938 2001 BR_{1} 1 11.1 62°.57 0°.5/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.54	+18 58.0	1.179	1.980	21.7	19.7
12 13	7 55.68	+19 12.5	1.124	2.001	17.2	19.5
12 23	7 47.99	+19 39.0	1.086	2.022	11.8	19.2
1 2	7 37.34	+20 13.6	1.071	2.043	5.8	19.0
1 12	7 25.33	+20 50.3	1.081	2.065	0.7	18.7
1 22	7 13.86	+21 24.0	1.118	2.086	6.6	19.1
2 1	7 4.63	+21 51.5	1.179	2.108	12.0	19.5
2 11	6 58.80	+22 11.8	1.262	2.129	16.5	19.8

425052 2009 QP_{32} 1 11.1 92°.82 1°.2/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.75	+24 28.3	2.020	2.792	14.8	22.1
12 13	7 52.79	+24 42.2	1.948	2.810	11.7	21.9
12 23	7 45.27	+24 58.9	1.897	2.827	8.0	21.7
1 2	7 35.82	+25 15.0	1.874	2.844	3.9	21.5
1 12	7 25.49	+25 27.2	1.880	2.862	1.3	21.3
1 22	7 15.43	+25 33.2	1.915	2.878	4.9	21.6
2 1	7 6.75	+25 32.4	1.979	2.895	8.7	21.9
2 11	7 0.30	+25 25.5	2.069	2.911	12.0	22.1

372087 2008 SY_{53} 1 11.1 94°.85 4°.6/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.82	+ 8 2.3	2.199	2.937	14.8	21.4
12 13	7 47.89	+ 7 42.0	2.113	2.944	12.2	21.2
12 23	7 41.84	+ 7 34.3	2.049	2.950	9.2	21.0
1 2	7 34.17	+ 7 40.1	2.010	2.957	6.2	20.9
1 12	7 25.66	+ 7 58.9	1.999	2.963	4.6	20.8
1 22	7 17.24	+ 8 29.0	2.017	2.970	5.8	20.8
2 1	7 9.80	+ 9 7.4	2.064	2.976	8.6	21.0
2 11	7 4.10	+ 9 50.8	2.136	2.982	11.5	21.2

151164 2001 XR_{138} 1 11.1 58°.46 0°.9/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.06	+18 5.7	1.802	2.579	16.2	20.2
12 13	7 50.27	+18 16.9	1.722	2.586	12.9	20.0
12 23	7 43.79	+18 37.0	1.664	2.593	8.9	19.8
1 2	7 35.21	+19 4.0	1.631	2.601	4.5	19.5
1 12	7 25.56	+19 34.5	1.625	2.608	1.0	19.3
1 22	7 16.03	+20 5.1	1.649	2.616	5.0	19.6
2 1	7 7.83	+20 33.2	1.700	2.624	9.3	19.9
2 11	7 1.90	+20 57.1	1.776	2.632	13.1	20.1

38145 1999 JF_{61} 1 11.1 154°.00 3°.4/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.87	+12 14.8	1.944	2.694	16.1	19.5
12 13	7 52.19	+12 0.1	1.858	2.701	13.0	19.3
12 23	7 44.96	+11 56.6	1.794	2.707	9.5	19.1
1 2	7 35.75	+12 4.3	1.754	2.713	5.7	18.8
1 12	7 25.51	+12 22.1	1.744	2.719	3.4	18.7
1 22	7 15.36	+12 47.7	1.763	2.723	5.6	18.9
2 1	7 6.44	+13 18.3	1.810	2.727	9.3	19.1
2 11	6 59.64	+13 51.1	1.883	2.731	12.8	19.3

334970 2004 EO_{5} 1 11.1 353°.57 3°.3/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 50.02	+10 54.8	2.182	2.935	14.4	20.5
12 13	7 46.62	+10 54.2	2.090	2.933	11.8	20.4
12 23	7 41.07	+11 5.6	2.019	2.932	8.6	20.2
1 2	7 33.84	+11 28.8	1.974	2.931	5.3	19.9
1 12	7 25.71	+12 2.6	1.957	2.930	3.3	19.8
1 22	7 17.58	+12 44.2	1.969	2.930	5.0	19.9
2 1	7 10.40	+13 30.5	2.010	2.930	8.3	20.1
2 11	7 4.95	+14 18.3	2.076	2.930	11.5	20.3

419155 2009 SD_{337} 1 11.1 51°.76 1°.3/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 57.79	+25 23.1	1.687	2.472	16.8	20.8
12 13	7 53.28	+25 23.9	1.621	2.490	13.2	20.6
12 23	7 45.80	+25 26.8	1.577	2.509	9.0	20.4
1 2	7 36.13	+25 28.2	1.557	2.528	4.5	20.2
1 12	7 25.50	+25 24.7	1.566	2.548	1.5	20.0
1 22	7 15.27	+25 14.8	1.603	2.567	5.5	20.3
2 1	7 6.72	+24 58.5	1.667	2.587	9.7	20.6
2 11	7 0.76	+24 37.5	1.756	2.607	13.4	20.9

29540 1998 BV_{24} 1 11.1 143°.17 1°.3/10.4 18

12 3	7 53.12	+24 41.0	2.835	3.596	11.3	18.9
12 13	7 48.56	+25 10.4	2.747	3.604	8.8	18.8
12 23	7 42.12	+25 42.3	2.684	3.611	6.0	18.6
1 2	7 34.27	+26 14.0	2.649	3.619	3.0	18.4
1 12	7 25.69	+26 42.5	2.645	3.626	1.4	18.3
1 22	7 17.17	+27 5.6	2.672	3.633	4.0	18.5
2 1	7 9.50	+27 22.0	2.730	3.639	6.9	18.7
2 11	7 3.37	+27 31.7	2.814	3.645	9.5	18.9

447283 2005 VU_{49} 1 11.1 71°.40 12°.0/13.2 18

12 3	8 3.43	+ 0 12.5	1.427	2.147	22.2	20.7
12 13	7 57.69	− 2 11.3	1.375	2.175	19.1	20.5
12 23	7 48.79	− 4 14.5	1.342	2.203	15.9	20.4
1 2	7 37.56	− 5 48.4	1.332	2.231	13.3	20.3
1 12	7 25.36	− 6 46.9	1.345	2.258	12.0	20.3
1 22	7 13.68	− 7 8.9	1.384	2.286	12.7	20.5
2 1	7 3.90	− 6 58.4	1.447	2.313	14.7	20.6
2 11	6 56.95	− 6 23.2	1.530	2.339	17.2	20.9

208264 2000 WM_{85} 1 11.1 30°.71 1°.9/11.4 18

12 3	7 55.98	+19 9.7	1.306	2.105	20.0	19.8
12 13	7 52.65	+18 39.9	1.238	2.114	16.0	19.6
12 23	7 45.84	+18 17.8	1.189	2.123	11.1	19.3
1 2	7 36.31	+18 2.6	1.163	2.134	5.8	19.0
1 12	7 25.48	+17 52.5	1.163	2.145	1.9	18.8
1 22	7 15.00	+17 45.9	1.188	2.156	6.3	19.1
2 1	7 6.44	+17 41.7	1.239	2.168	11.4	19.4
2 11	7 0.91	+17 38.8	1.312	2.181	15.9	19.7

447239 2005 UK_{202} 1 11.1 70°.18 4°.1/12.2 15

12 3	7 58.08	+12 45.7	1.365	2.143	20.4	21.5
12 13	7 53.95	+12 21.3	1.303	2.162	16.5	21.3
12 23	7 46.51	+12 11.5	1.259	2.181	11.9	21.1
1 2	7 36.57	+12 16.8	1.239	2.201	7.1	20.9
1 12	7 25.46	+12 35.2	1.244	2.220	4.1	20.8
1 22	7 14.75	+13 3.5	1.276	2.239	6.8	21.0
2 1	7 5.88	+13 37.6	1.334	2.259	11.2	21.3
2 11	6 59.90	+14 13.7	1.415	2.278	15.3	21.6

123023 2000 SE_{273} 1 11.1 326°.85 6°.0/ 9.1 18

12 3	7 56.60	+34 35.0	1.745	2.533	16.2	19.2
12 13	7 53.09	+35 29.7	1.659	2.524	13.2	19.0
12 23	7 46.23	+36 22.6	1.594	2.516	9.8	18.8
1 2	7 36.60	+37 6.2	1.554	2.508	6.8	18.6
1 12	7 25.44	+37 33.0	1.540	2.501	6.1	18.5
1 22	7 14.29	+37 38.7	1.554	2.494	8.5	18.6
2 1	7 4.77	+37 23.2	1.593	2.487	11.9	18.8
2 11	6 58.13	+36 50.3	1.655	2.481	15.3	19.0

486631 2013 LD_{34} 1 11.1 191°.27 2°.0/10.3 18

12 3	7 58.11	+26 23.7	2.308	3.072	13.4	22.0
12 13	7 53.05	+26 52.1	2.213	3.071	10.6	21.8
12 23	7 45.53	+27 22.7	2.142	3.069	7.4	21.6
1 2	7 36.04	+27 51.8	2.098	3.066	3.9	21.4
1 12	7 25.51	+28 15.2	2.084	3.063	2.1	21.3
1 22	7 14.99	+28 30.2	2.101	3.059	5.0	21.5
2 1	7 5.60	+28 35.7	2.147	3.055	8.6	21.7
2 11	6 58.23	+28 32.5	2.219	3.050	11.7	21.9

375131 2007 VL_{300} 1 11.1 79°.02 4°.5/ 8.9 18

12 3	7 56.20	+32 58.2	2.306	3.078	13.2	20.4
12 13	7 51.64	+34 3.1	2.236	3.093	10.6	20.3
12 23	7 44.56	+35 6.7	2.189	3.109	7.7	20.1
1 2	7 35.55	+36 3.2	2.170	3.124	5.2	20.0
1 12	7 25.56	+36 47.1	2.179	3.140	4.7	20.0
1 22	7 15.71	+37 15.1	2.218	3.155	6.5	20.1
2 1	7 7.10	+37 26.8	2.285	3.170	9.2	20.3
2 11	7 0.62	+37 24.0	2.377	3.185	11.8	20.5

81623 2000 HY_{73} 1 11.1 147°.70 0°.5/11.3 18

12 3	7 55.85	+17 10.2	2.357	3.110	13.5	20.0
12 13	7 51.03	+17 49.6	2.270	3.120	10.7	19.8
12 23	7 44.01	+18 38.1	2.205	3.129	7.4	19.6
1 2	7 35.26	+19 32.7	2.169	3.138	3.7	19.4
1 12	7 25.60	+20 29.9	2.163	3.146	0.5	19.2
1 22	7 15.98	+21 25.6	2.188	3.154	4.2	19.5
2 1	7 7.34	+22 16.8	2.244	3.161	7.8	19.7
2 11	7 0.50	+23 1.5	2.327	3.167	10.9	19.9

465266 2007 TK_{60} 1 11.1 138°.81 3°.5/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 51.69	+ 9 53.0	2.522	3.257	13.1	21.9
12 13	7 47.52	+ 9 39.4	2.432	3.264	10.7	21.8
12 23	7 41.46	+ 9 35.9	2.365	3.270	8.0	21.6
1 2	7 33.97	+ 9 42.8	2.324	3.275	5.2	21.4
1 12	7 25.74	+ 9 59.5	2.312	3.281	3.5	21.3
1 22	7 17.58	+10 24.4	2.330	3.286	4.9	21.4
2 1	7 10.27	+10 55.2	2.378	3.291	7.6	21.6
2 11	7 4.50	+11 29.3	2.452	3.296	10.3	21.8

458398 2010 XO_{46} 1 11.1 49°.62 2°.7/11.7 18

12 3	7 56.76	+16 16.2	1.552	2.330	18.3	20.8
12 13	7 52.45	+15 45.5	1.492	2.354	14.6	20.6
12 23	7 45.22	+15 24.1	1.452	2.378	10.3	20.4
1 2	7 35.85	+15 11.9	1.436	2.402	5.7	20.2
1 12	7 25.56	+15 7.5	1.447	2.426	2.7	20.1
1 22	7 15.71	+15 9.4	1.486	2.451	5.8	20.4
2 1	7 7.54	+15 15.5	1.552	2.476	10.0	20.7
2 11	7 1.93	+15 24.1	1.642	2.502	13.7	21.0

174938 2004 CM_{65} 1 11.1 277°.72 1°.0/11.5 18

12 3	7 53.68	+15 45.4	1.811	2.583	16.3	20.8
12 13	7 50.29	+16 20.4	1.709	2.569	13.1	20.6
12 23	7 44.10	+17 9.3	1.628	2.556	9.2	20.3
1 2	7 35.55	+18 9.9	1.573	2.542	4.8	20.0
1 12	7 25.57	+19 17.9	1.545	2.528	1.1	19.7
1 22	7 15.36	+20 27.8	1.547	2.514	5.3	20.0
2 1	7 6.25	+21 34.3	1.576	2.500	9.9	20.2
2 11	6 59.40	+22 33.9	1.631	2.486	14.1	20.4

439265 2012 UU_{3} 1 11.1 125°.40 0°.5/10.9 18

12 3	8 2.21	+21 13.5	1.683	2.454	17.4	22.3
12 13	7 56.84	+21 38.3	1.611	2.472	13.7	22.1
12 23	7 48.36	+22 10.3	1.559	2.488	9.4	21.9
1 2	7 37.47	+22 45.6	1.533	2.504	4.6	21.6
1 12	7 25.40	+23 19.0	1.536	2.519	0.8	21.4
1 22	7 13.60	+23 46.7	1.569	2.534	5.5	21.7
2 1	7 3.47	+24 6.7	1.629	2.547	10.1	22.0
2 11	6 56.05	+24 19.1	1.714	2.560	13.9	22.3

391787 2008 QQ_{46} 1 11.1 162°.54 1°.4/10.8 18

12 3	8 2.66	+25 36.9	1.737	2.511	16.8	21.5
12 13	7 57.29	+25 38.3	1.653	2.516	13.4	21.3
12 23	7 48.74	+25 41.5	1.591	2.520	9.2	21.0
1 2	7 37.69	+25 42.5	1.554	2.524	4.6	20.8
1 12	7 25.37	+25 37.6	1.545	2.527	1.6	20.6
1 22	7 13.28	+25 24.8	1.566	2.530	5.7	20.8
2 1	7 2.85	+25 4.3	1.615	2.532	10.2	21.1
2 11	6 55.17	+24 38.3	1.689	2.533	14.2	21.4

96343 1997 RS_{1} 1 11.1 66°.33 2°.8/12.3 18

12 3	7 51.72	+12 2.2	2.129	2.884	14.7	19.4
12 13	7 47.93	+12 7.2	2.047	2.893	11.9	19.2
12 23	7 41.94	+12 23.7	1.987	2.903	8.6	19.0
1 2	7 34.26	+12 51.2	1.953	2.913	5.1	18.8
1 12	7 25.73	+13 27.8	1.947	2.923	2.8	18.7
1 22	7 17.30	+14 10.3	1.970	2.933	4.8	18.8
2 1	7 9.90	+14 55.6	2.023	2.943	8.2	19.0
2 11	7 4.33	+15 40.7	2.101	2.954	11.4	19.3

214923 2007 UK_{50} 1 11.1 325°.30 1°.7/11.6 18

12 3	7 51.74	+16 14.1	1.458	2.251	18.6	20.2
12 13	7 49.35	+16 24.2	1.367	2.239	15.0	20.0
12 23	7 43.76	+16 47.9	1.295	2.228	10.6	19.7
1 2	7 35.47	+17 23.7	1.247	2.217	5.6	19.4
1 12	7 25.59	+18 8.2	1.224	2.207	1.7	19.1
1 22	7 15.57	+18 56.4	1.228	2.197	6.1	19.3
2 1	7 6.98	+19 43.6	1.258	2.188	11.3	19.6
2 11	7 1.10	+20 26.3	1.310	2.180	15.9	19.8

384941 2012 TR_{113} 1 11.1 275°.03 2°.6/11.9 18

12 3	7 52.13	+14 27.3	2.455	3.206	13.1	21.0
12 13	7 48.11	+14 4.2	2.346	3.191	10.6	20.8
12 23	7 42.04	+13 47.7	2.260	3.177	7.6	20.6
1 2	7 34.34	+13 38.1	2.201	3.162	4.5	20.4
1 12	7 25.73	+13 34.9	2.170	3.147	2.6	20.3
1 22	7 17.06	+13 37.2	2.170	3.132	4.6	20.4
2 1	7 9.22	+13 43.9	2.199	3.116	7.9	20.5
2 11	7 2.98	+13 53.5	2.255	3.101	11.0	20.7

489600 2007 TR_{168} 1 11.1 73°.27 1°.1/10.8 17

12 3	8 0.22	+23 20.1	1.558	2.342	18.0	21.4
12 13	7 55.38	+23 36.9	1.497	2.366	14.1	21.2
12 23	7 47.35	+23 58.8	1.457	2.389	9.6	21.0
1 2	7 36.94	+24 21.3	1.442	2.413	4.7	20.8
1 12	7 25.48	+24 40.0	1.454	2.437	1.2	20.6
1 22	7 14.47	+24 51.6	1.495	2.460	5.7	21.0
2 1	7 5.31	+24 55.4	1.563	2.483	10.2	21.3
2 11	6 58.96	+24 52.3	1.654	2.506	14.1	21.6

405976 2006 SR_{147} 1 11.1 96°.69 1°.9/10.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.13	+25 35.0	1.848	2.624	15.9	22.1
12 13	7 54.21	+25 58.2	1.776	2.641	12.5	21.9
12 23	7 46.43	+26 24.2	1.727	2.657	8.6	21.7
1 2	7 36.49	+26 48.6	1.703	2.673	4.3	21.5
1 12	7 25.52	+27 7.1	1.708	2.689	2.0	21.3
1 22	7 14.84	+27 16.7	1.743	2.704	5.5	21.6
2 1	7 5.70	+27 17.0	1.805	2.719	9.5	21.9
2 11	6 59.03	+27 9.1	1.892	2.734	13.0	22.1

317654 2003 FT_{79} 1 11.1 227°.60 6°.9/ 7.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.58	+42 0.4	2.511	3.259	12.9	21.1
12 13	7 57.07	+43 7.4	2.417	3.247	10.8	21.0
12 23	7 48.60	+44 8.9	2.345	3.235	8.7	20.8
1 2	7 37.69	+44 57.6	2.300	3.222	7.2	20.7
1 12	7 25.38	+45 27.2	2.283	3.208	7.1	20.6
1 22	7 12.99	+45 34.0	2.295	3.194	8.5	20.7
2 1	7 1.91	+45 18.4	2.333	3.180	10.6	20.8
2 11	6 53.26	+44 43.8	2.396	3.164	12.9	21.0

375077 2007 RW_{60} 1 11.1 36°.50 12°.8/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 16.59	+57 0.3	1.850	2.566	17.9	19.8
12 13	8 9.69	+58 2.4	1.806	2.585	16.0	19.7
12 23	7 57.70	+58 44.0	1.780	2.605	14.3	19.6
1 2	7 41.99	+58 53.7	1.774	2.626	13.1	19.6
1 12	7 24.99	+58 24.2	1.792	2.647	12.8	19.6
1 22	7 9.41	+57 15.6	1.832	2.668	13.5	19.7
2 1	6 57.36	+55 35.0	1.896	2.691	14.8	19.9
2 11	6 49.87	+53 33.0	1.980	2.713	16.4	20.0

368561 2004 BM_{83} 1 11.1 265°.03 15°.1/18.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.96	−12 0.8	1.269	1.960	25.8	20.3
12 13	7 52.26	−12 39.1	1.187	1.954	23.4	20.0
12 23	7 46.00	−12 38.3	1.117	1.948	20.6	19.8
1 2	7 36.67	−11 47.5	1.064	1.942	17.7	19.6
1 12	7 25.47	−10 0.8	1.030	1.936	15.5	19.5
1 22	7 14.04	− 7 20.7	1.018	1.930	15.2	19.4
2 1	7 4.17	− 3 59.6	1.030	1.924	17.0	19.5
2 11	6 57.35	− 0 16.6	1.065	1.918	20.0	19.7

219797 2002 AD_{133} 1 11.1 19°.23 0°.6/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.46	+21 33.5	1.671	2.461	16.7	20.4
12 13	7 50.17	+21 57.3	1.592	2.464	13.3	20.1
12 23	7 43.94	+22 28.5	1.533	2.467	9.1	19.9
1 2	7 35.40	+23 3.7	1.499	2.471	4.4	19.6
1 12	7 25.63	+23 38.4	1.492	2.475	0.9	19.4
1 22	7 15.97	+24 8.3	1.514	2.480	5.5	19.7
2 1	7 7.75	+24 31.1	1.562	2.486	10.0	20.0
2 11	7 2.00	+24 46.2	1.634	2.491	13.9	20.2

43793 Mackey 1 11.1 93°.20 1°.0/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.20	+19 10.3	1.861	2.627	16.1	19.0
12 13	7 53.98	+19 3.0	1.792	2.649	12.8	18.8
12 23	7 46.11	+19 2.0	1.745	2.671	8.8	18.6
1 2	7 36.28	+19 5.6	1.724	2.693	4.4	18.4
1 12	7 25.57	+19 11.4	1.731	2.714	1.0	18.2
1 22	7 15.19	+19 17.4	1.769	2.735	4.9	18.5
2 1	7 6.29	+19 22.3	1.834	2.755	9.0	18.8
2 11	6 59.72	+19 25.7	1.926	2.774	12.5	19.1

184798 2005 TW_{87} 1 11.1 195°.32 1°.7/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.07	+25 24.2	2.334	3.098	13.3	22.0
12 13	7 52.23	+25 52.2	2.238	3.096	10.5	21.8
12 23	7 44.97	+26 23.2	2.166	3.093	7.3	21.6
1 2	7 35.81	+26 53.5	2.121	3.090	3.7	21.3
1 12	7 25.62	+27 19.3	2.106	3.086	1.8	21.2
1 22	7 15.43	+27 37.8	2.122	3.082	4.8	21.4
2 1	7 6.31	+27 47.6	2.167	3.077	8.4	21.6
2 11	6 59.15	+27 49.3	2.238	3.071	11.6	21.8

169308 2001 TA_{70} 1 11.1 209°.05 5°.2/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 50.53	+ 4 1.3	2.756	3.466	12.7	20.9
12 13	7 46.51	+ 3 30.0	2.657	3.462	10.7	20.7
12 23	7 40.75	+ 3 10.3	2.579	3.458	8.5	20.5
1 2	7 33.66	+ 3 3.6	2.527	3.453	6.4	20.4
1 12	7 25.85	+ 3 10.5	2.503	3.449	5.2	20.3
1 22	7 18.03	+ 3 30.3	2.508	3.444	5.9	20.4
2 1	7 10.92	+ 4 1.0	2.543	3.439	7.9	20.5
2 11	7 5.17	+ 4 39.7	2.603	3.434	10.2	20.6

417149 2005 VU_{111} 1 11.1 79°.52 1°.1/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.40	+23 47.2	1.911	2.688	15.4	21.8
12 13	7 51.99	+24 2.1	1.835	2.700	12.1	21.6
12 23	7 44.91	+24 20.8	1.780	2.711	8.3	21.4
1 2	7 35.77	+24 40.0	1.752	2.723	4.1	21.2
1 12	7 25.64	+24 55.9	1.752	2.734	1.2	21.0
1 22	7 15.72	+25 6.1	1.782	2.746	5.1	21.3
2 1	7 7.19	+25 9.4	1.839	2.757	9.1	21.5
2 11	7 0.95	+25 6.4	1.922	2.769	12.6	21.8

371223 2006 BJ_{47} 1 11.1 172°.95 0°.7/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 54.99	+22 46.5	2.156	2.927	14.1	22.0
12 13	7 50.68	+23 1.0	2.066	2.928	11.1	21.8
12 23	7 43.95	+23 19.9	1.999	2.929	7.6	21.6
1 2	7 35.31	+23 40.2	1.958	2.929	3.7	21.3
1 12	7 25.69	+23 58.8	1.947	2.930	0.8	21.1
1 22	7 16.12	+24 13.2	1.965	2.930	4.6	21.4
2 1	7 7.69	+24 22.0	2.012	2.930	8.5	21.6
2 11	7 1.26	+24 25.1	2.085	2.930	11.8	21.8

89231 2001 UA_{141} 1 11.1 1°.42 3°.6/ 9.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.09	+30 54.9	2.323	3.098	13.0	20.0
12 13	7 50.03	+31 41.0	2.237	3.098	10.4	19.9
12 23	7 43.54	+32 27.3	2.173	3.098	7.4	19.7
1 2	7 35.13	+33 8.8	2.137	3.098	4.6	19.5
1 12	7 25.71	+33 40.8	2.129	3.098	3.8	19.4
1 22	7 16.32	+34 0.3	2.151	3.098	5.9	19.6
2 1	7 8.05	+34 6.4	2.201	3.098	8.9	19.8
2 11	7 1.78	+34 0.3	2.276	3.099	11.8	20.0

161466 2004 CA_{83} 1 11.1 53°.63 6°.1/ 9.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.08	+39 34.1	2.058	2.822	14.9	19.6
12 13	7 56.55	+40 0.8	1.991	2.838	12.1	19.5
12 23	7 47.99	+40 19.4	1.946	2.853	9.3	19.3
1 2	7 37.22	+40 23.6	1.927	2.869	6.9	19.2
1 12	7 25.52	+40 8.9	1.936	2.886	6.2	19.2
1 22	7 14.31	+39 34.3	1.972	2.902	7.7	19.3
2 1	7 4.89	+38 42.4	2.036	2.918	10.3	19.5
2 11	6 58.14	+37 38.1	2.125	2.935	13.0	19.7

63521 2001 PL 1 11.1 1°.60 14°.6/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 50.80	− 8 7.7	1.563	2.260	21.4	18.0
12 13	7 48.10	−10 15.9	1.492	2.258	19.4	17.8
12 23	7 42.57	−12 0.9	1.437	2.258	17.3	17.7
1 2	7 34.78	−13 13.4	1.401	2.258	15.6	17.6
1 12	7 25.75	−13 46.8	1.385	2.259	14.7	17.5
1 22	7 16.73	−13 39.1	1.391	2.260	14.9	17.5
2 1	7 9.00	−12 53.3	1.418	2.263	16.3	17.6
2 11	7 3.63	−11 37.7	1.464	2.266	18.1	17.7

78868 2003 QE_{87} 1 11.1 70°.20 2°.8/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.20	+27 31.1	1.578	2.367	17.6	19.7
12 13	7 54.96	+27 52.2	1.503	2.374	14.0	19.5
12 23	7 47.36	+28 15.0	1.447	2.380	9.7	19.2
1 2	7 37.10	+28 34.3	1.417	2.386	5.2	19.0
1 12	7 25.52	+28 44.7	1.414	2.393	2.9	18.8
1 22	7 14.19	+28 43.2	1.438	2.399	6.5	19.1
2 1	7 4.65	+28 29.8	1.489	2.406	11.0	19.4
2 11	6 58.02	+28 6.9	1.564	2.412	14.9	19.6

325570 2009 SZ_{126} 1 11.1 162°.45 3°.9/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.95	+10 36.1	2.213	2.955	14.6	20.9
12 13	7 49.62	+10 12.3	2.123	2.958	11.9	20.7
12 23	7 43.09	+ 9 58.8	2.054	2.961	8.8	20.5
1 2	7 34.86	+ 9 56.4	2.011	2.964	5.7	20.3
1 12	7 25.75	+10 4.8	1.997	2.966	3.9	20.2
1 22	7 16.70	+10 22.4	2.012	2.968	5.5	20.3
2 1	7 8.65	+10 47.0	2.056	2.970	8.5	20.5
2 11	7 2.39	+11 16.1	2.126	2.971	11.6	20.7

6391 Africano 1 11.1 359°.20 3°.6/ 9.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.86	+24 10.2	1.495	2.297	17.8	17.1
12 13	7 50.38	+25 40.0	1.415	2.294	14.1	16.9
12 23	7 44.57	+27 21.2	1.357	2.293	9.8	16.6
1 2	7 35.93	+29 6.1	1.323	2.292	5.4	16.3
1 12	7 25.62	+30 44.6	1.316	2.293	3.9	16.3
1 22	7 15.21	+32 7.8	1.337	2.293	7.6	16.5
2 1	7 6.35	+33 10.6	1.383	2.295	12.0	16.7
2 11	7 0.36	+33 52.6	1.452	2.297	16.0	17.0

508444 2016 LK_{29} 1 11.1 118°.82 2°.1/12.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 47.49	+10 51.0	4.058	4.780	8.7	23.8
12 13	7 43.47	+10 48.5	3.972	4.798	7.0	23.7
12 23	7 38.33	+10 52.3	3.912	4.815	5.1	23.6
1 2	7 32.37	+11 2.0	3.879	4.831	3.2	23.5
1 12	7 26.03	+11 17.0	3.878	4.848	2.1	23.4
1 22	7 19.75	+11 36.2	3.908	4.864	3.1	23.5
2 1	7 13.99	+11 58.4	3.969	4.880	4.9	23.7
2 11	7 9.14	+12 22.3	4.059	4.895	6.7	23.8

503533 2016 FL_{21} 1 11.1 163°.13 3°.6/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.12	+ 8 17.2	2.575	3.305	13.0	22.0
12 13	7 47.11	+ 8 17.5	2.481	3.308	10.7	21.8
12 23	7 41.23	+ 8 29.6	2.409	3.310	8.0	21.7
1 2	7 33.93	+ 8 53.4	2.364	3.312	5.3	21.5
1 12	7 25.87	+ 9 28.1	2.347	3.315	3.6	21.4
1 22	7 17.82	+10 11.3	2.361	3.316	4.8	21.5
2 1	7 10.57	+11 0.3	2.405	3.318	7.5	21.7
2 11	7 4.80	+11 51.8	2.475	3.319	10.2	21.8

165848 2001 SV_{13} 1 11.1 81°.69 4°.6/ 9.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 58.01	+35 17.8	2.356	3.122	13.1	19.7
12 13	7 52.95	+35 57.4	2.286	3.138	10.6	19.5
12 23	7 45.39	+36 33.1	2.239	3.154	7.8	19.4
1 2	7 35.96	+36 59.6	2.219	3.170	5.4	19.3
1 12	7 25.66	+37 12.7	2.228	3.186	4.7	19.3
1 22	7 15.63	+37 10.3	2.266	3.202	6.4	19.4
2 1	7 6.92	+36 53.2	2.332	3.218	9.0	19.6
2 11	7 0.39	+36 24.0	2.423	3.234	11.5	19.8

94906 2001 YF_{26} 1 11.1 278°.93 1°.6/11.5 18

12 3	7 55.64	+18 2.7	2.052	2.816	14.9	19.5
12 13	7 51.53	+17 45.8	1.936	2.791	12.0	19.3
12 23	7 44.81	+17 34.5	1.841	2.766	8.5	19.0
1 2	7 35.90	+17 28.4	1.773	2.740	4.5	18.7
1 12	7 25.66	+17 26.0	1.733	2.714	1.6	18.5
1 22	7 15.20	+17 25.9	1.723	2.688	5.1	18.7
2 1	7 5.73	+17 27.0	1.741	2.662	9.4	18.9
2 11	6 58.31	+17 28.4	1.785	2.635	13.3	19.0

487434 2014 RK_{21} 1 11.1 195°.83 0°.4/11.2 18

12 3	7 57.88	+19 47.3	2.057	2.819	14.9	22.5
12 13	7 53.10	+19 57.1	1.961	2.817	11.9	22.3
12 23	7 45.72	+20 13.6	1.888	2.814	8.2	22.1
1 2	7 36.26	+20 34.4	1.841	2.811	4.1	21.8
1 12	7 25.65	+20 56.4	1.823	2.807	0.5	21.5
1 22	7 15.04	+21 16.8	1.836	2.802	4.8	21.9
2 1	7 5.60	+21 33.8	1.878	2.797	8.9	22.1
2 11	6 58.29	+21 46.5	1.946	2.791	12.6	22.3

39719 1996 VF_{4} 1 11.1 68°.38 0°.8/11.3 18

12 3	7 58.45	+19 15.4	1.503	2.287	18.6	19.2
12 13	7 54.09	+19 16.6	1.439	2.307	14.7	19.0
12 23	7 46.56	+19 26.3	1.396	2.327	10.1	18.8
1 2	7 36.64	+19 41.9	1.376	2.347	5.0	18.6
1 12	7 25.63	+19 59.9	1.384	2.367	0.9	18.3
1 22	7 15.00	+20 17.1	1.420	2.387	5.6	18.7
2 1	7 6.15	+20 31.5	1.482	2.407	10.3	19.0
2 11	7 0.07	+20 42.2	1.568	2.427	14.3	19.3

341623 2007 UG_{139} 1 11.1 278°.19 1°.4/11.5 18

12 3	7 52.58	+17 51.3	2.418	3.178	13.0	20.7
12 13	7 48.46	+17 36.2	2.321	3.174	10.4	20.5
12 23	7 42.26	+17 26.3	2.247	3.171	7.3	20.3
1 2	7 34.47	+17 21.0	2.200	3.167	3.9	20.1
1 12	7 25.84	+17 19.0	2.182	3.163	1.4	19.9
1 22	7 17.25	+17 19.4	2.194	3.160	4.2	20.1
2 1	7 9.59	+17 20.9	2.236	3.156	7.6	20.3
2 11	7 3.60	+17 22.8	2.304	3.152	10.7	20.5

489549 2007 RT_{286} 1 11.1 119°.40 2°.3/10.5 18

12 3	8 1.39	+26 57.3	1.754	2.531	16.6	21.4
12 13	7 56.25	+27 13.8	1.678	2.542	13.1	21.2
12 23	7 48.00	+27 31.9	1.624	2.554	9.1	21.0
1 2	7 37.37	+27 46.7	1.595	2.564	4.7	20.8
1 12	7 25.57	+27 53.8	1.595	2.575	2.4	20.6
1 22	7 14.06	+27 50.6	1.624	2.585	5.9	20.9
2 1	7 4.23	+27 37.4	1.681	2.595	10.1	21.1
2 11	6 57.10	+27 16.2	1.762	2.604	13.8	21.4

125664 2001 XG_{75} 1 11.1 39°.91 1°.9/11.7 18

12 3	7 54.91	+16 21.6	1.389	2.180	19.5	19.6
12 13	7 51.40	+16 21.6	1.335	2.205	15.4	19.4
12 23	7 44.74	+16 33.7	1.300	2.230	10.7	19.2
1 2	7 35.75	+16 55.9	1.288	2.256	5.6	19.0
1 12	7 25.74	+17 24.8	1.302	2.283	2.0	18.8
1 22	7 16.18	+17 56.2	1.343	2.311	5.8	19.1
2 1	7 8.41	+18 26.8	1.410	2.338	10.4	19.5
2 11	7 3.39	+18 54.3	1.500	2.367	14.4	19.8

296618 2009 SY_{30} 1 11.1 100°.35 3°.0/12.2 18

12 3	7 53.07	+12 35.3	1.996	2.754	15.5	21.8
12 13	7 49.25	+12 30.3	1.908	2.756	12.5	21.5
12 23	7 43.02	+12 36.8	1.842	2.759	9.1	21.3
1 2	7 34.92	+12 54.4	1.801	2.762	5.4	21.1
1 12	7 25.82	+13 21.5	1.788	2.764	3.0	21.0
1 22	7 16.76	+13 55.5	1.804	2.766	5.2	21.1
2 1	7 8.81	+14 33.4	1.848	2.769	8.9	21.3
2 11	7 2.83	+15 12.1	1.917	2.771	12.3	21.6

523506 2017 JK_{6} 1 11.1 160°.35 3°.7/12.1 18

12 3	7 55.16	+12 29.0	2.082	2.831	15.2	21.4
12 13	7 50.73	+11 55.7	1.992	2.834	12.3	21.2
12 23	7 43.95	+11 31.4	1.924	2.836	9.0	21.0
1 2	7 35.34	+11 17.0	1.882	2.838	5.6	20.8
1 12	7 25.78	+11 12.1	1.868	2.840	3.7	20.7
1 22	7 16.31	+11 16.0	1.884	2.842	5.6	20.8
2 1	7 7.93	+11 26.9	1.928	2.843	8.9	21.0
2 11	7 1.50	+11 42.6	1.998	2.845	12.2	21.2

85606 1998 FP_{139} 1 11.1 308°.89 1°.0/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 52.00	+23 31.9	2.224	3.000	13.5	20.2
12 13	7 48.44	+23 52.2	2.123	2.988	10.7	20.0
12 23	7 42.52	+24 16.7	2.044	2.975	7.4	19.8
1 2	7 34.71	+24 42.8	1.992	2.963	3.7	19.5
1 12	7 25.84	+25 7.0	1.969	2.951	1.2	19.3
1 22	7 16.91	+25 26.4	1.976	2.940	4.7	19.5
2 1	7 8.97	+25 39.4	2.011	2.928	8.5	19.7
2 11	7 2.92	+25 45.7	2.071	2.917	11.9	19.9

468589 2007 RF_{271} 1 11.1 335°.06 11°.2/15.3 18

12 3	7 49.06	− 8 17.3	2.107	2.776	17.2	20.9
12 13	7 46.03	− 9 35.3	2.019	2.768	15.5	20.8
12 23	7 40.81	−10 33.4	1.948	2.762	13.7	20.6
1 2	7 33.86	−11 6.1	1.898	2.755	12.1	20.5
1 12	7 25.93	−11 9.5	1.871	2.749	11.2	20.5
1 22	7 17.95	−10 43.1	1.868	2.743	11.4	20.5
2 1	7 10.88	− 9 49.6	1.889	2.738	12.6	20.5
2 11	7 5.56	− 8 34.7	1.933	2.733	14.4	20.6

379459 2010 CH_{157} 1 11.1 3°.18 4°.8/ 9.6 18

12 3	7 56.21	+33 49.5	2.036	2.815	14.5	21.1
12 13	7 52.12	+34 28.7	1.953	2.815	11.7	20.9
12 23	7 45.19	+35 5.5	1.893	2.815	8.5	20.7
1 2	7 36.04	+35 34.0	1.858	2.815	5.7	20.5
1 12	7 25.73	+35 49.0	1.851	2.816	4.9	20.5
1 22	7 15.55	+35 47.7	1.873	2.816	7.0	20.6
2 1	7 6.78	+35 30.3	1.922	2.818	10.1	20.8
2 11	7 0.42	+34 59.6	1.994	2.819	13.1	21.0

520639 2014 PC_{75} 1 11.1 328°.93 3°.9/12.4 18

12 3	7 50.60	+11 28.5	1.408	2.194	19.5	20.8
12 13	7 48.53	+11 30.2	1.317	2.182	16.0	20.6
12 23	7 43.28	+11 50.1	1.246	2.170	11.7	20.3
1 2	7 35.34	+12 28.9	1.196	2.159	7.0	20.0
1 12	7 25.78	+13 24.2	1.171	2.149	3.9	19.8
1 22	7 16.06	+14 30.9	1.173	2.139	6.7	19.9
2 1	7 7.72	+15 42.8	1.200	2.131	11.6	20.1
2 11	7 2.09	+16 53.8	1.249	2.123	16.2	20.4

425453 2010 ED_{67} 1 11.1 302°.66 2°.6/12.1 17

12 3	7 50.75	+13 6.3	2.159	2.917	14.4	21.2
12 13	7 47.39	+13 9.6	2.057	2.906	11.7	21.0
12 23	7 41.77	+13 23.7	1.977	2.895	8.4	20.8
1 2	7 34.35	+13 48.4	1.922	2.884	4.9	20.5
1 12	7 25.90	+14 21.9	1.896	2.874	2.6	20.4
1 22	7 17.36	+15 1.5	1.899	2.863	4.8	20.5
2 1	7 9.74	+15 44.1	1.931	2.853	8.5	20.7
2 11	7 3.90	+16 26.9	1.988	2.843	11.9	20.9

33641 1999 JZ_{81} 1 11.1 203°.15 1°.1/10.6 18

12 3	7 55.46	+21 33.1	2.264	3.029	13.6	18.5
12 13	7 51.09	+22 22.7	2.167	3.026	10.8	18.3
12 23	7 44.32	+23 19.6	2.094	3.022	7.4	18.0
1 2	7 35.60	+24 20.3	2.048	3.018	3.6	17.8
1 12	7 25.77	+25 20.0	2.032	3.014	1.2	17.6
1 22	7 15.85	+26 14.2	2.046	3.009	4.7	17.9
2 1	7 6.91	+26 59.9	2.091	3.003	8.5	18.1
2 11	6 59.87	+27 35.9	2.161	2.998	11.8	18.3

449572 2014 JK_{11} 1 11.1 149°.81 2°.7/10.1 18

12 3	8 0.13	+25 45.0	1.792	2.569	16.3	22.0
12 13	7 55.40	+26 37.8	1.712	2.576	12.9	21.8
12 23	7 47.58	+27 35.7	1.653	2.583	8.9	21.6
1 2	7 37.27	+28 32.9	1.620	2.589	4.8	21.3
1 12	7 25.62	+29 22.7	1.617	2.595	2.9	21.2
1 22	7 14.04	+30 0.1	1.642	2.600	6.3	21.4
2 1	7 3.98	+30 23.2	1.695	2.604	10.4	21.7
2 11	6 56.53	+30 33.1	1.773	2.608	14.0	21.9

136486 2005 GY_{95} 1 11.1 172°.58 5°.3/ 7.6 18

12 3	7 58.00	+36 12.7	2.746	3.502	11.7	20.1
12 13	7 53.06	+37 46.5	2.661	3.504	9.5	20.0
12 23	7 45.68	+39 19.1	2.601	3.506	7.3	19.8
1 2	7 36.29	+40 44.2	2.570	3.507	5.7	19.7
1 12	7 25.71	+41 55.4	2.569	3.508	5.5	19.7
1 22	7 14.97	+42 48.6	2.598	3.509	7.1	19.8
2 1	7 5.17	+43 22.4	2.656	3.510	9.2	20.0
2 11	6 57.27	+43 38.4	2.738	3.510	11.4	20.1

403061 2008 BR_{5} 1 11.1 50°.50 1°.8/10.9 18

12 3	8 1.74	+27 42.4	1.485	2.274	18.5	21.0
12 13	7 56.86	+27 25.3	1.419	2.289	14.6	20.8
12 23	7 48.52	+27 7.2	1.373	2.305	10.1	20.6
1 2	7 37.61	+26 44.1	1.351	2.322	5.1	20.3
1 12	7 25.61	+26 13.3	1.357	2.338	1.9	20.1
1 22	7 14.15	+25 34.5	1.390	2.355	6.1	20.5
2 1	7 4.74	+24 49.9	1.451	2.373	10.8	20.8
2 11	6 58.38	+24 2.6	1.535	2.390	14.8	21.0

461592 2004 RK_{299} 1 11.1 132°.67 2°.9/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 57.81	+29 17.4	2.212	2.982	13.8	22.1
12 13	7 52.92	+29 47.3	2.130	2.990	10.9	21.9
12 23	7 45.49	+30 17.3	2.072	2.997	7.6	21.7
1 2	7 36.11	+30 43.0	2.040	3.005	4.4	21.5
1 12	7 25.75	+31 0.1	2.037	3.012	3.0	21.4
1 22	7 15.54	+31 6.2	2.064	3.018	5.5	21.6
2 1	7 6.59	+31 0.8	2.120	3.025	8.8	21.8
2 11	6 59.80	+30 45.7	2.201	3.031	11.9	22.0

427717 2004 GN_{33} 1 11.1 309°.22 4°.4/12.5 17

12 3	7 50.17	+ 9 48.5	2.156	2.905	14.7	21.2
12 13	7 46.95	+ 9 21.1	2.047	2.887	12.2	21.0
12 23	7 41.50	+ 9 4.4	1.960	2.868	9.2	20.8
1 2	7 34.24	+ 8 59.8	1.898	2.850	6.1	20.5
1 12	7 25.92	+ 9 7.6	1.864	2.832	4.4	20.4
1 22	7 17.48	+ 9 26.6	1.858	2.814	5.9	20.5
2 1	7 9.90	+ 9 54.8	1.880	2.796	9.1	20.6
2 11	7 4.08	+10 29.1	1.927	2.779	12.4	20.8

400862 2010 NC_{66} 1 11.1 102°.02 0°.5/10.9 14 C

12 3	8 1.47	+22 50.0	2.094	2.853	14.8	22.7
12 13	7 55.48	+22 55.9	2.026	2.881	11.6	22.5
12 23	7 47.02	+23 5.2	1.982	2.908	7.9	22.4
1 2	7 36.74	+23 14.8	1.965	2.935	3.8	22.2
1 12	7 25.70	+23 21.9	1.978	2.961	0.6	22.0
1 22	7 15.02	+23 24.8	2.021	2.986	4.6	22.3
2 1	7 5.76	+23 22.8	2.095	3.010	8.3	22.6
2 11	6 58.71	+23 16.5	2.194	3.034	11.5	22.8

459372 2012 JA_{32} 1 11.1 278°.29 5°.4/12.9 18

12 3	7 52.33	+ 7 30.5	1.986	2.729	16.0	22.0
12 13	7 48.76	+ 6 58.3	1.889	2.721	13.3	21.8
12 23	7 42.77	+ 6 39.4	1.812	2.713	10.2	21.6
1 2	7 34.86	+ 6 35.7	1.760	2.705	7.2	21.4
1 12	7 25.86	+ 6 47.6	1.735	2.696	5.4	21.3
1 22	7 16.81	+ 7 14.0	1.737	2.688	6.7	21.4
2 1	7 8.77	+ 7 51.8	1.768	2.680	9.8	21.5
2 11	7 2.66	+ 8 37.2	1.823	2.672	13.1	21.7

411323 2010 UY_{15} 1 11.1 96°.23 1°.8/11.7 18

12 3	7 56.52	+16 34.4	1.892	2.657	16.0	21.6
12 13	7 51.97	+16 29.8	1.816	2.671	12.7	21.4
12 23	7 44.86	+16 33.7	1.762	2.686	8.9	21.2
1 2	7 35.79	+16 45.0	1.734	2.701	4.7	21.0
1 12	7 25.79	+17 1.5	1.734	2.715	1.8	20.8
1 22	7 15.99	+17 20.6	1.764	2.729	4.9	21.0
2 1	7 7.52	+17 40.3	1.821	2.743	8.9	21.3
2 11	7 1.24	+17 58.8	1.905	2.757	12.5	21.5

238029 2002 VO_{104} 1 11.1 110°.47 8°.4/ 6.4 18

12 3	8 0.99	+45 18.3	2.402	3.149	13.4	19.9
12 13	7 56.19	+46 57.8	2.331	3.153	11.5	19.7
12 23	7 48.23	+48 29.8	2.284	3.158	9.7	19.6
1 2	7 37.65	+49 46.0	2.263	3.162	8.6	19.6
1 12	7 25.58	+50 39.0	2.269	3.166	8.6	19.6
1 22	7 13.47	+51 5.2	2.302	3.170	9.8	19.7
2 1	7 2.81	+51 5.0	2.359	3.174	11.6	19.8
2 11	6 54.82	+50 42.6	2.438	3.178	13.5	19.9

461769 2005 UN_{322} 1 11.1 59°.29 7°.9/ 7.4 18

12 3	8 6.52	+28 39.9	1.243	2.039	21.1	20.2
12 13	8 1.95	+31 46.9	1.200	2.072	16.7	20.0
12 23	7 52.91	+35 0.1	1.178	2.105	12.1	19.8
1 2	7 40.12	+38 1.1	1.183	2.138	8.6	19.7
1 12	7 25.35	+40 31.3	1.216	2.171	8.4	19.8
1 22	7 10.89	+42 20.2	1.277	2.204	11.3	20.0
2 1	6 58.98	+43 26.8	1.361	2.236	14.9	20.3
2 11	6 51.16	+43 58.5	1.467	2.269	18.1	20.7

512283 2016 GY_{124} 1 11.1 177°.66 6°.0/ 8.3 18

12 3	7 59.48	+41 4.2	2.727	3.476	11.9	21.3
12 13	7 54.19	+42 1.7	2.644	3.477	9.9	21.2
12 23	7 46.37	+42 53.5	2.585	3.478	7.9	21.0
1 2	7 36.56	+43 33.7	2.552	3.479	6.3	20.9
1 12	7 25.71	+43 57.3	2.549	3.479	6.1	20.9
1 22	7 14.94	+44 2.0	2.574	3.479	7.4	21.0
2 1	7 5.36	+43 48.1	2.626	3.479	9.4	21.1
2 11	6 57.88	+43 18.5	2.703	3.478	11.4	21.3

181485 2006 TT_{99} 1 11.1 271°.89 2°.8/11.8 18

12 3	7 55.00	+15 13.3	1.821	2.588	16.4	20.8
12 13	7 51.15	+14 49.6	1.725	2.580	13.3	20.6
12 23	7 44.57	+14 34.5	1.650	2.572	9.5	20.4
1 2	7 35.80	+14 28.2	1.600	2.564	5.5	20.1
1 12	7 25.79	+14 29.8	1.578	2.556	2.8	19.9
1 22	7 15.75	+14 37.8	1.584	2.548	5.6	20.1
2 1	7 6.92	+14 50.3	1.618	2.540	9.8	20.3
2 11	7 0.33	+15 5.2	1.676	2.532	13.7	20.5

57329 2001 QE_{245} 1 11.1 24°.55 8°.2/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 50.51	+ 1 32.1	1.554	2.298	19.7	19.2
12 13	7 47.80	+ 1 1.0	1.480	2.304	16.8	19.0
12 23	7 42.32	+ 0 52.7	1.424	2.312	13.4	18.8
1 2	7 34.68	+ 1 10.7	1.390	2.320	10.2	18.6
1 12	7 25.91	+ 1 55.3	1.379	2.328	8.3	18.5
1 22	7 17.23	+ 3 3.2	1.395	2.338	9.0	18.6
2 1	7 9.91	+ 4 27.9	1.436	2.348	11.7	18.8
2 11	7 4.91	+ 6 1.4	1.500	2.358	14.9	19.0

394397 2007 EN_{132} 1 11.1 193°.52 1°.4/11.5 18

12 3	7 58.55	+17 7.0	1.845	2.609	16.3	22.8
12 13	7 53.93	+17 12.5	1.752	2.607	13.1	22.6
12 23	7 46.48	+17 27.3	1.681	2.605	9.2	22.3
1 2	7 36.73	+17 49.8	1.635	2.603	4.8	22.1
1 12	7 25.70	+18 17.0	1.617	2.599	1.4	21.8
1 22	7 14.66	+18 45.6	1.629	2.595	5.2	22.1
2 1	7 4.89	+19 13.0	1.669	2.590	9.7	22.3
2 11	6 57.47	+19 37.5	1.735	2.585	13.6	22.5

334593 2002 TT_{219} 1 11.1 81°.24 2°.6/10.3 18

12 3	7 57.22	+29 28.7	2.250	3.020	13.6	20.8
12 13	7 52.29	+29 44.0	2.174	3.034	10.7	20.7
12 23	7 44.94	+29 58.2	2.121	3.047	7.5	20.5
1 2	7 35.79	+30 7.8	2.095	3.061	4.2	20.3
1 12	7 25.81	+30 9.3	2.099	3.075	2.7	20.2
1 22	7 16.08	+30 1.1	2.132	3.089	5.2	20.4
2 1	7 7.64	+29 43.6	2.195	3.102	8.4	20.6
2 11	7 1.28	+29 18.5	2.283	3.116	11.4	20.9

236042 2005 GA_{220} 1 11.1 23°.75 1°.2/11.5 18

12 3	7 52.01	+17 36.6	1.980	2.753	15.1	20.4
12 13	7 48.49	+17 42.1	1.896	2.757	12.0	20.2
12 23	7 42.54	+17 55.8	1.833	2.761	8.3	20.0
1 2	7 34.71	+18 16.2	1.796	2.765	4.3	19.8
1 12	7 25.91	+18 40.7	1.788	2.770	1.2	19.5
1 22	7 17.19	+19 6.5	1.808	2.775	4.7	19.8
2 1	7 9.62	+19 31.3	1.857	2.781	8.6	20.1
2 11	7 4.06	+19 53.5	1.931	2.786	12.2	20.3

335891 2007 RE_{192} 1 11.1 37°.28 5°.1/13.2 18

12 3	7 50.59	+ 7 12.0	2.009	2.753	15.8	20.2
12 13	7 47.17	+ 6 49.9	1.930	2.763	13.0	20.0
12 23	7 41.52	+ 6 42.0	1.872	2.774	9.9	19.8
1 2	7 34.17	+ 6 49.7	1.839	2.784	6.9	19.7
1 12	7 25.97	+ 7 12.5	1.833	2.795	5.1	19.6
1 22	7 17.88	+ 7 48.1	1.854	2.807	6.3	19.7
2 1	7 10.86	+ 8 33.2	1.904	2.818	9.1	19.9
2 11	7 5.70	+ 9 23.6	1.978	2.830	12.1	20.1

68281 2001 FZ_{11} 1 11.1 290°.81 0°.9/10.8 18

12 3	7 54.94	+21 55.3	1.657	2.445	16.9	19.6
12 13	7 51.70	+22 22.9	1.560	2.431	13.5	19.4
12 23	7 45.33	+22 58.9	1.483	2.417	9.4	19.1
1 2	7 36.32	+23 39.7	1.431	2.403	4.6	18.8
1 12	7 25.74	+24 20.1	1.406	2.389	1.1	18.5
1 22	7 14.97	+24 55.3	1.409	2.375	5.9	18.8
2 1	7 5.55	+25 22.1	1.439	2.361	10.8	19.0
2 11	6 58.71	+25 39.7	1.492	2.348	15.1	19.3

429760 2011 WV_{129} 1 11.1 225°.64 16°.2/ 2.9 18

12 3	8 8.77	+43 24.0	1.105	1.904	23.0	20.7
12 13	8 6.85	+47 3.9	1.048	1.902	20.0	20.5
12 23	7 58.66	+50 42.4	1.011	1.901	17.4	20.3
1 2	7 44.08	+53 54.4	0.996	1.899	16.3	20.3
1 12	7 24.89	+56 14.6	1.003	1.897	17.1	20.3
1 22	7 4.81	+57 29.1	1.031	1.896	19.3	20.4
2 1	6 48.25	+57 40.5	1.077	1.894	22.2	20.6
2 11	6 38.30	+57 4.1	1.137	1.892	25.0	20.8

377282 2004 EZ_{57} 1 11.1 345°.63 7°.8/ 8.0 18

12 3	7 54.52	+38 31.1	1.768	2.556	16.0	20.2
12 13	7 51.71	+39 48.6	1.686	2.547	13.3	20.0
12 23	7 45.48	+41 2.4	1.626	2.538	10.4	19.8
1 2	7 36.42	+42 3.6	1.591	2.531	8.3	19.7
1 12	7 25.73	+42 43.7	1.581	2.524	8.0	19.7
1 22	7 15.04	+42 58.0	1.597	2.518	9.9	19.8
2 1	7 5.99	+42 46.3	1.637	2.513	12.8	19.9
2 11	6 59.88	+42 12.8	1.699	2.509	15.7	20.1

94822 2001 XC_{180} 1 11.1 50°.99 2°.0/11.7 18

12 3	7 56.18	+16 1.3	1.303	2.096	20.4	19.9
12 13	7 52.80	+16 6.9	1.241	2.112	16.3	19.7
12 23	7 45.99	+16 26.4	1.198	2.129	11.4	19.4
1 2	7 36.51	+16 57.6	1.177	2.147	6.0	19.2
1 12	7 25.76	+17 36.3	1.183	2.164	2.0	19.0
1 22	7 15.36	+18 17.4	1.214	2.182	6.2	19.3
2 1	7 6.84	+18 56.9	1.271	2.201	11.2	19.6
2 11	7 1.31	+19 31.8	1.351	2.219	15.6	19.9

405609 2005 SN_{166} 1 11.1 43°.65 11°.2/ 7.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 4.56	+45 29.5	1.524	2.299	18.7	19.7
12 13	8 0.35	+47 13.3	1.480	2.320	15.9	19.5
12 23	7 51.66	+48 44.2	1.455	2.341	13.3	19.4
1 2	7 39.40	+49 49.6	1.453	2.363	11.5	19.4
1 12	7 25.48	+50 20.1	1.474	2.385	11.4	19.4
1 22	7 12.19	+50 12.8	1.520	2.407	12.7	19.6
2 1	7 1.62	+49 32.0	1.588	2.430	14.9	19.8
2 11	6 55.04	+48 26.9	1.676	2.454	17.2	20.0

276272 2002 SG_{33} 1 11.1 119°.96 2°.9/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.75	+12 30.3	2.471	3.215	13.2	20.9
12 13	7 48.43	+12 14.5	2.385	3.224	10.7	20.7
12 23	7 42.16	+12 7.3	2.321	3.233	7.7	20.5
1 2	7 34.43	+12 8.6	2.284	3.242	4.7	20.4
1 12	7 25.97	+12 17.8	2.276	3.250	2.9	20.2
1 22	7 17.61	+12 33.2	2.299	3.259	4.6	20.4
2 1	7 10.16	+12 53.1	2.351	3.267	7.5	20.6
2 11	7 4.31	+13 15.5	2.429	3.275	10.4	20.8

132034 2002 CM_{124} 1 11.1 302°.51 1°.6/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.64	+17 47.6	1.497	2.286	18.4	20.3
12 13	7 51.63	+17 41.9	1.404	2.274	14.8	20.0
12 23	7 45.36	+17 46.2	1.331	2.262	10.5	19.8
1 2	7 36.37	+17 59.3	1.281	2.250	5.5	19.4
1 12	7 25.77	+18 18.4	1.257	2.239	1.6	19.2
1 22	7 15.05	+18 40.3	1.260	2.228	6.1	19.4
2 1	7 5.78	+19 2.0	1.289	2.217	11.2	19.7
2 11	6 59.26	+19 21.5	1.341	2.207	15.8	19.9

345116 2005 QS_{41} 1 11.1 109°.20 2°.2/11.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.53	+15 49.6	1.608	2.375	18.2	21.9
12 13	7 55.55	+15 45.1	1.538	2.394	14.6	21.6
12 23	7 47.53	+15 51.5	1.488	2.412	10.2	21.4
1 2	7 37.19	+16 7.3	1.463	2.429	5.5	21.2
1 12	7 25.73	+16 29.7	1.465	2.446	2.2	21.0
1 22	7 14.57	+16 55.3	1.497	2.462	5.7	21.3
2 1	7 5.06	+17 21.5	1.556	2.478	10.1	21.6
2 11	6 58.19	+17 46.1	1.639	2.493	14.0	21.9

292548 2006 TR_{55} 1 11.1 76°.91 7°.1/14.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.19	+ 2 11.6	1.793	2.517	18.1	21.0
12 13	7 50.89	+ 1 45.7	1.729	2.541	15.2	20.9
12 23	7 44.09	+ 1 39.5	1.683	2.565	12.0	20.7
1 2	7 35.43	+ 1 55.2	1.660	2.589	8.9	20.6
1 12	7 25.90	+ 2 32.5	1.664	2.613	7.1	20.5
1 22	7 16.64	+ 3 28.0	1.695	2.636	7.9	20.6
2 1	7 8.69	+ 4 36.5	1.754	2.659	10.3	20.8
2 11	7 2.89	+ 5 51.9	1.837	2.682	13.2	21.0

465579 2008 YT_{26} 1 11.1 50°.23 6°.2/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.76	+ 5 57.8	2.139	2.870	15.4	20.8
12 13	7 48.72	+ 4 57.2	2.057	2.877	12.9	20.6
12 23	7 42.51	+ 4 8.6	1.996	2.885	10.1	20.5
1 2	7 34.65	+ 3 34.6	1.960	2.892	7.5	20.3
1 12	7 25.98	+ 3 16.8	1.951	2.900	6.2	20.2
1 22	7 17.42	+ 3 15.0	1.971	2.908	7.1	20.3
2 1	7 9.89	+ 3 27.5	2.017	2.917	9.5	20.5
2 11	7 4.15	+ 3 50.9	2.089	2.925	12.2	20.7

369088 Marcus 1 11.1 275°.62 1°.9/11.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.25	+16 35.6	1.902	2.671	15.7	22.1
12 13	7 50.54	+16 28.8	1.802	2.660	12.7	21.9
12 23	7 44.18	+16 30.7	1.723	2.648	9.0	21.6
1 2	7 35.65	+16 40.3	1.669	2.636	4.9	21.3
1 12	7 25.88	+16 56.0	1.643	2.624	1.9	21.1
1 22	7 16.02	+17 15.2	1.646	2.612	5.2	21.3
2 1	7 7.28	+17 35.7	1.677	2.600	9.4	21.5
2 11	7 0.69	+17 55.7	1.732	2.588	13.3	21.7

38407 1999 RF_{204} 1 11.1 143°.63 2°.1/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.21	+15 34.7	2.417	3.165	13.3	19.4
12 13	7 50.42	+15 19.0	2.329	3.174	10.7	19.2
12 23	7 43.56	+15 10.0	2.264	3.182	7.6	19.0
1 2	7 35.14	+15 7.3	2.226	3.189	4.2	18.8
1 12	7 25.95	+15 9.8	2.218	3.197	2.1	18.7
1 22	7 16.86	+15 16.1	2.241	3.204	4.3	18.9
2 1	7 8.77	+15 24.9	2.293	3.210	7.6	19.1
2 11	7 2.38	+15 35.0	2.372	3.216	10.6	19.3

172393 2003 AK_{68} 1 11.1 349°.83 3°.5/ 9.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.19	+28 57.8	2.201	2.980	13.5	20.0
12 13	7 49.54	+29 58.2	2.113	2.978	10.8	19.8
12 23	7 43.39	+31 1.3	2.049	2.976	7.6	19.6
1 2	7 35.22	+32 1.6	2.011	2.974	4.6	19.4
1 12	7 25.93	+32 53.7	2.002	2.973	3.7	19.3
1 22	7 16.60	+33 33.3	2.023	2.972	6.1	19.5
2 1	7 8.37	+33 58.6	2.071	2.971	9.3	19.7
2 11	7 2.18	+34 10.1	2.144	2.971	12.3	19.9

145268 2005 JZ_{136} 1 11.1 178°.41 3°.5/ 9.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 55.64	+33 18.6	3.012	3.769	10.8	21.5
12 13	7 50.69	+33 58.1	2.921	3.770	8.6	21.3
12 23	7 43.73	+34 35.8	2.855	3.771	6.3	21.1
1 2	7 35.24	+35 7.8	2.817	3.772	4.1	21.0
1 12	7 25.94	+35 30.6	2.809	3.772	3.6	21.0
1 22	7 16.67	+35 42.0	2.832	3.772	5.1	21.1
2 1	7 8.30	+35 41.5	2.885	3.771	7.5	21.2
2 11	7 1.55	+35 30.6	2.964	3.770	9.8	21.4

405680 2005 UY_{240} 1 11.1 111°.84 1°.2/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.84	+22 44.2	2.036	2.809	14.7	21.3
12 13	7 51.53	+23 23.4	1.956	2.818	11.6	21.1
12 23	7 44.66	+24 8.5	1.897	2.827	7.9	20.9
1 2	7 35.79	+24 55.5	1.865	2.836	3.9	20.7
1 12	7 25.88	+25 39.8	1.863	2.844	1.4	20.5
1 22	7 16.06	+26 17.6	1.890	2.853	5.0	20.8
2 1	7 7.45	+26 46.4	1.946	2.861	8.9	21.0
2 11	7 0.99	+27 6.1	2.027	2.869	12.2	21.3

495034 2010 VW_{171} 1 11.1 357°.28 6°.0/ 8.8 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.46	+31 20.2	1.518	2.320	17.6	21.1
12 13	7 51.86	+32 42.3	1.441	2.317	14.1	20.8
12 23	7 45.72	+34 7.6	1.385	2.315	10.3	20.6
1 2	7 36.60	+35 26.8	1.354	2.314	6.9	20.4
1 12	7 25.80	+36 30.5	1.349	2.313	6.2	20.4
1 22	7 14.97	+37 12.0	1.369	2.313	9.0	20.5
2 1	7 5.88	+37 29.3	1.415	2.314	12.8	20.7
2 11	6 59.86	+37 25.4	1.482	2.316	16.4	21.0

329613 2003 JU_{16} 1 11.1 227°.55 5°.9/ 7.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.13	+32 9.3	2.248	3.009	13.8	20.1
12 13	7 57.13	+34 23.4	2.152	3.002	11.2	19.9
12 23	7 49.06	+36 43.1	2.082	2.994	8.4	19.8
1 2	7 38.26	+38 58.9	2.041	2.987	6.3	19.6
1 12	7 25.62	+41 0.6	2.033	2.979	6.2	19.6
1 22	7 12.44	+42 39.9	2.055	2.970	8.4	19.7
2 1	7 0.21	+43 53.1	2.107	2.962	11.2	19.9
2 11	6 50.30	+44 41.2	2.183	2.953	14.0	20.0

155260 2005 WH_{89} 1 11.1 92°.60 1°.4/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.04	+23 37.6	1.975	2.751	15.0	20.5
12 13	7 51.75	+24 8.3	1.897	2.761	11.8	20.3
12 23	7 44.83	+24 43.9	1.841	2.772	8.1	20.1
1 2	7 35.88	+25 20.4	1.811	2.782	4.0	19.9
1 12	7 25.90	+25 53.4	1.810	2.792	1.5	19.7
1 22	7 16.06	+26 19.6	1.839	2.802	5.1	20.0
2 1	7 7.53	+26 37.2	1.896	2.812	9.0	20.2
2 11	7 1.20	+26 46.4	1.978	2.822	12.4	20.5

503718 2016 JT_{27} 1 11.1 99°.65 3°.5/ 9.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.37	+30 34.4	2.507	3.277	12.3	21.0
12 13	7 50.09	+31 30.9	2.425	3.283	9.8	20.8
12 23	7 43.54	+32 27.9	2.367	3.290	7.0	20.7
1 2	7 35.23	+33 20.6	2.336	3.296	4.4	20.5
1 12	7 25.97	+34 4.2	2.335	3.303	3.6	20.5
1 22	7 16.75	+34 35.7	2.364	3.309	5.6	20.6
2 1	7 8.56	+34 53.7	2.422	3.315	8.4	20.8
2 11	7 2.21	+34 59.2	2.505	3.322	11.0	21.0

212050 2005 EM_{8} 1 11.1 227°.54 1°.8/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.31	+25 25.4	1.877	2.653	15.6	21.1
12 13	7 53.90	+25 43.8	1.783	2.648	12.4	20.9
12 23	7 46.56	+26 5.5	1.711	2.642	8.6	20.7
1 2	7 36.85	+26 26.4	1.666	2.636	4.4	20.4
1 12	7 25.82	+26 42.3	1.648	2.629	1.9	20.2
1 22	7 14.79	+26 49.9	1.660	2.622	5.6	20.4
2 1	7 5.12	+26 48.3	1.699	2.615	9.9	20.7
2 11	6 57.90	+26 38.4	1.764	2.608	13.7	20.9

182104 2000 NT_{20} 1 11.1 175°.51 0°.8/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.57	+18 8.7	2.396	3.150	13.3	21.4
12 13	7 50.87	+18 19.5	2.302	3.153	10.6	21.2
12 23	7 43.99	+18 37.0	2.231	3.155	7.3	21.0
1 2	7 35.43	+18 59.4	2.188	3.156	3.7	20.7
1 12	7 25.96	+19 24.3	2.174	3.157	0.8	20.5
1 22	7 16.52	+19 49.4	2.192	3.157	4.1	20.8
2 1	7 8.05	+20 12.5	2.239	3.157	7.7	21.0
2 11	7 1.33	+20 32.6	2.313	3.156	10.9	21.2

331336 2012 BL_{47} 1 11.1 164°.55 3°.7/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.77	+ 9 19.5	1.985	2.731	15.9	21.1
12 13	7 49.88	+ 9 28.1	1.895	2.733	13.0	20.9
12 23	7 43.55	+ 9 51.6	1.825	2.735	9.6	20.7
1 2	7 35.29	+10 30.1	1.781	2.736	6.0	20.5
1 12	7 25.97	+11 21.5	1.765	2.738	3.8	20.4
1 22	7 16.65	+12 22.1	1.778	2.739	5.5	20.5
2 1	7 8.39	+13 27.4	1.820	2.740	9.1	20.7
2 11	7 2.10	+14 32.9	1.887	2.740	12.5	20.9

148904 2001 WD_{89} 1 11.1 112°.64 1°.0/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 55.54	+17 52.8	2.003	2.769	15.2	20.8
12 13	7 51.21	+18 1.6	1.922	2.779	12.0	20.6
12 23	7 44.39	+18 18.3	1.862	2.788	8.4	20.4
1 2	7 35.65	+18 41.2	1.828	2.797	4.3	20.1
1 12	7 25.95	+19 7.3	1.823	2.806	1.0	19.9
1 22	7 16.36	+19 33.8	1.848	2.815	4.7	20.2
2 1	7 7.98	+19 58.5	1.902	2.823	8.6	20.4
2 11	7 1.69	+20 19.8	1.981	2.831	12.1	20.7

502755 2015 DQ_{58} 1 11.1 331°.36 0°.1/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.94	+20 16.7	2.064	2.840	14.4	21.5
12 13	7 48.51	+20 31.1	1.970	2.834	11.5	21.2
12 23	7 42.65	+20 52.0	1.898	2.828	7.9	21.0
1 2	7 34.87	+21 17.4	1.852	2.823	3.9	20.8
1 12	7 26.03	+21 44.2	1.834	2.818	0.4	20.4
1 22	7 17.18	+22 9.3	1.846	2.813	4.6	20.8
2 1	7 9.39	+22 30.7	1.886	2.808	8.6	21.0
2 11	7 3.57	+22 47.2	1.951	2.804	12.2	21.2

336928 2011 HM_{56} 1 11.1 38°.24 0°.8/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.89	+21 2.2	2.110	2.884	14.2	20.6
12 13	7 49.19	+21 45.2	2.023	2.887	11.2	20.4
12 23	7 43.08	+22 35.8	1.959	2.890	7.7	20.2
1 2	7 35.06	+23 30.4	1.922	2.893	3.8	20.0
1 12	7 26.01	+24 24.6	1.913	2.896	1.0	19.8
1 22	7 16.97	+25 13.9	1.935	2.899	4.7	20.1
2 1	7 9.00	+25 55.6	1.985	2.903	8.6	20.3
2 11	7 3.00	+26 28.4	2.061	2.907	11.9	20.5

8988 1979 MA_{4} 1 11.1 116°.29 1°.4/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.31	+15 45.9	3.039	3.783	10.9	18.5
12 13	7 46.94	+15 48.5	2.955	3.798	8.7	18.3
12 23	7 40.98	+15 57.1	2.895	3.813	6.1	18.2
1 2	7 33.85	+16 10.8	2.863	3.827	3.3	18.0
1 12	7 26.15	+16 28.1	2.861	3.841	1.4	17.9
1 22	7 18.55	+16 47.5	2.891	3.855	3.4	18.1
2 1	7 11.69	+17 7.6	2.951	3.869	6.1	18.3
2 11	7 6.14	+17 27.1	3.039	3.882	8.6	18.4

350206 2012 QS_{39} 1 11.1 359°.99 4°.6/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 50.24	+ 7 29.3	2.219	2.958	14.6	21.0
12 13	7 46.81	+ 7 14.0	2.127	2.957	12.1	20.8
12 23	7 41.29	+ 7 11.9	2.056	2.957	9.2	20.6
1 2	7 34.14	+ 7 24.0	2.011	2.957	6.3	20.5
1 12	7 26.12	+ 7 49.7	1.993	2.957	4.6	20.4
1 22	7 18.11	+ 8 27.0	2.004	2.957	5.8	20.4
2 1	7 11.01	+ 9 13.0	2.044	2.958	8.6	20.6
2 11	7 5.60	+10 3.7	2.109	2.958	11.5	20.8

458329 2010 VO_{122} 1 11.1 224°.56 2°.4/10.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.52	+27 26.2	2.161	2.929	14.1	22.0
12 13	7 53.75	+27 51.7	2.061	2.921	11.2	21.8
12 23	7 46.30	+28 19.1	1.984	2.912	7.8	21.6
1 2	7 36.69	+28 44.0	1.935	2.902	4.2	21.3
1 12	7 25.87	+29 2.1	1.914	2.892	2.5	21.2
1 22	7 15.02	+29 10.6	1.923	2.882	5.5	21.4
2 1	7 5.34	+29 8.4	1.962	2.871	9.2	21.6
2 11	6 57.84	+28 56.7	2.025	2.859	12.6	21.8

427855 2005 NN_{67} 1 11.1 229°.43 1°.5/11.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.25	+17 2.6	2.975	3.719	11.2	22.2
12 13	7 48.63	+16 44.5	2.865	3.708	8.9	22.0
12 23	7 42.26	+16 30.7	2.779	3.697	6.3	21.8
1 2	7 34.54	+16 20.7	2.721	3.686	3.5	21.6
1 12	7 26.09	+16 13.9	2.694	3.674	1.5	21.5
1 22	7 17.63	+16 9.4	2.699	3.662	3.7	21.6
2 1	7 9.88	+16 6.7	2.734	3.650	6.6	21.8
2 11	7 3.48	+16 5.0	2.797	3.637	9.3	22.0

410483 2008 DF_{28} 1 11.1 116°.87 6°.6/ 9.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.05	+37 39.7	1.851	2.624	16.0	21.3
12 13	7 57.24	+38 32.9	1.775	2.628	13.1	21.1
12 23	7 49.01	+39 21.1	1.719	2.631	10.0	20.9
1 2	7 38.07	+39 56.1	1.689	2.634	7.4	20.8
1 12	7 25.75	+40 11.0	1.686	2.637	6.8	20.7
1 22	7 13.64	+40 2.7	1.710	2.640	8.7	20.9
2 1	7 3.34	+39 32.5	1.761	2.643	11.7	21.1
2 11	6 56.00	+38 45.3	1.835	2.646	14.6	21.3

203506 2002 AQ_{130} 1 11.1 293°.93 1°.2/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.72	+20 30.4	1.523	2.315	18.0	20.5
12 13	7 51.92	+21 22.0	1.426	2.300	14.4	20.2
12 23	7 45.78	+22 27.0	1.350	2.284	10.0	19.9
1 2	7 36.74	+23 41.0	1.297	2.269	4.9	19.6
1 12	7 25.85	+24 56.9	1.271	2.254	1.5	19.3
1 22	7 14.64	+26 6.9	1.273	2.239	6.5	19.6
2 1	7 4.80	+27 5.5	1.302	2.224	11.7	19.8
2 11	6 57.76	+27 50.4	1.353	2.209	16.3	20.1

19259 1995 GB 1 11.1 241°.20 0°.3/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 57.23	+19 20.5	1.891	2.660	15.8	18.9
12 13	7 53.06	+19 37.1	1.788	2.648	12.7	18.6
12 23	7 46.05	+20 2.2	1.707	2.635	8.8	18.4
1 2	7 36.67	+20 33.4	1.651	2.621	4.4	18.1
1 12	7 25.88	+21 7.0	1.623	2.607	0.5	17.7
1 22	7 14.93	+21 39.2	1.626	2.592	5.2	18.1
2 1	7 5.13	+22 7.3	1.656	2.577	9.7	18.3
2 11	6 57.61	+22 29.9	1.712	2.561	13.8	18.5

389351 2009 UL_{53} 1 11.1 84°.73 2°.5/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.34	+16 13.2	1.370	2.151	20.2	20.7
12 13	7 55.91	+15 59.3	1.305	2.169	16.1	20.4
12 23	7 48.05	+15 57.0	1.259	2.187	11.3	20.2
1 2	7 37.56	+16 5.2	1.237	2.204	6.1	20.0
1 12	7 25.82	+16 21.1	1.241	2.222	2.5	19.8
1 22	7 14.47	+16 41.4	1.272	2.239	6.3	20.1
2 1	7 5.03	+17 3.1	1.330	2.256	11.1	20.4
2 11	6 58.59	+17 24.1	1.410	2.272	15.4	20.7

421956 2014 QE_{268} 1 11.1 81°.25 0°.5/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.22	+18 50.1	1.877	2.646	15.9	21.4
12 13	7 52.56	+19 8.1	1.810	2.669	12.6	21.3
12 23	7 45.29	+19 34.0	1.764	2.692	8.6	21.1
1 2	7 36.08	+20 5.1	1.745	2.714	4.3	20.9
1 12	7 25.97	+20 37.6	1.754	2.737	0.6	20.6
1 22	7 16.13	+21 8.4	1.792	2.759	4.8	21.0
2 1	7 7.68	+21 35.0	1.860	2.781	8.8	21.3
2 11	7 1.47	+21 56.4	1.952	2.802	12.3	21.5

465458 2008 SD_{101} 1 11.1 69°.32 4°.9/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.84	+ 6 48.7	2.117	2.853	15.3	21.4
12 13	7 48.07	+ 6 31.8	2.036	2.864	12.7	21.3
12 23	7 42.13	+ 6 29.0	1.976	2.874	9.7	21.1
1 2	7 34.54	+ 6 41.4	1.941	2.885	6.7	20.9
1 12	7 26.11	+ 7 8.4	1.933	2.895	4.9	20.9
1 22	7 17.79	+ 7 47.6	1.955	2.906	6.0	20.9
2 1	7 10.49	+ 8 35.7	2.004	2.917	8.8	21.1
2 11	7 4.98	+ 9 28.5	2.079	2.928	11.7	21.3

86805 2000 GR_{115} 1 11.1 178°.70 1°.1/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.18	+22 39.4	1.990	2.755	15.3	21.0
12 13	7 55.12	+23 9.7	1.899	2.757	12.1	20.8
12 23	7 47.26	+23 45.8	1.831	2.759	8.3	20.6
1 2	7 37.18	+24 24.0	1.789	2.759	4.1	20.3
1 12	7 25.86	+24 59.6	1.777	2.759	1.2	20.1
1 22	7 14.56	+25 28.8	1.795	2.759	5.2	20.4
2 1	7 4.54	+25 49.6	1.842	2.757	9.3	20.6
2 11	6 56.82	+26 1.9	1.915	2.755	13.0	20.9

148714 2001 TD_{39} 1 11.1 56°.92 5°.9/ 9.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.99	+34 58.3	1.728	2.511	16.5	19.9
12 13	7 55.60	+35 49.9	1.661	2.522	13.4	19.7
12 23	7 47.85	+36 37.9	1.614	2.534	9.9	19.5
1 2	7 37.48	+37 14.7	1.592	2.546	6.8	19.3
1 12	7 25.84	+37 33.6	1.597	2.558	6.0	19.3
1 22	7 14.52	+37 31.5	1.630	2.570	8.2	19.5
2 1	7 5.03	+37 9.5	1.689	2.582	11.4	19.7
2 11	6 58.46	+36 32.1	1.770	2.594	14.5	19.9

411220 2010 OO_{19} 1 11.1 67°.51 2°.3/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.02	+16 21.4	1.727	2.499	17.0	21.5
12 13	7 51.92	+16 1.4	1.650	2.508	13.6	21.3
12 23	7 45.06	+15 50.2	1.593	2.518	9.6	21.0
1 2	7 36.05	+15 47.2	1.561	2.527	5.3	20.8
1 12	7 25.99	+15 50.9	1.556	2.536	2.3	20.6
1 22	7 16.12	+15 59.2	1.580	2.546	5.4	20.9
2 1	7 7.65	+16 10.5	1.632	2.556	9.6	21.1
2 11	7 1.55	+16 22.8	1.708	2.565	13.4	21.4

143032 2002 VO_{119} 1 11.1 60°.07 2°.4/10.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.44	+26 19.3	1.551	2.338	17.9	19.3
12 13	7 55.69	+26 46.7	1.495	2.365	14.1	19.1
12 23	7 47.69	+27 16.7	1.460	2.392	9.6	18.9
1 2	7 37.30	+27 43.8	1.450	2.420	5.0	18.7
1 12	7 25.88	+28 2.6	1.468	2.447	2.5	18.7
1 22	7 14.99	+28 10.4	1.513	2.475	6.2	18.9
2 1	7 6.00	+28 6.9	1.585	2.502	10.4	19.3
2 11	6 59.87	+27 54.3	1.681	2.529	14.0	19.5

512190 2015 RM_{243} 1 11.1 97°.19 1°.1/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.33	+16 36.0	1.614	2.385	18.0	21.5
12 13	7 54.69	+17 0.0	1.546	2.405	14.3	21.3
12 23	7 47.02	+17 35.9	1.498	2.425	9.9	21.0
1 2	7 37.03	+18 20.6	1.475	2.444	5.0	20.8
1 12	7 25.91	+19 9.5	1.480	2.463	1.1	20.6
1 22	7 15.05	+19 57.7	1.514	2.481	5.4	20.9
2 1	7 5.79	+20 41.6	1.576	2.499	9.9	21.2
2 11	6 59.15	+21 18.9	1.663	2.517	13.9	21.5

11267 Donaldkessler 1 11.1 123°.61 1°.6/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 56.71	+25 27.0	2.122	2.894	14.2	18.6
12 13	7 52.14	+25 45.3	2.038	2.900	11.2	18.5
12 23	7 45.05	+26 6.1	1.977	2.906	7.7	18.2
1 2	7 36.02	+26 25.9	1.943	2.912	3.9	18.0
1 12	7 26.00	+26 41.0	1.937	2.918	1.7	17.9
1 22	7 16.12	+26 49.0	1.962	2.924	4.9	18.1
2 1	7 7.47	+26 49.1	2.015	2.930	8.7	18.3
2 11	7 0.93	+26 42.1	2.094	2.935	11.9	18.6

319093 2005 WH_{148} 1 11.1 115°.21 0°.2/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.98	+20 1.2	2.001	2.772	15.0	20.8
12 13	7 50.92	+20 32.7	1.916	2.777	11.9	20.6
12 23	7 44.31	+21 12.2	1.854	2.783	8.1	20.3
1 2	7 35.70	+21 56.5	1.818	2.788	4.0	20.1
1 12	7 26.03	+22 41.3	1.810	2.794	0.5	19.8
1 22	7 16.40	+23 22.8	1.833	2.799	4.8	20.2
2 1	7 7.96	+23 58.1	1.884	2.804	8.8	20.4
2 11	7 1.61	+24 26.0	1.961	2.809	12.3	20.6

217877 2001 QR_{225} 1 11.1 120°.55 0°.8/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 49.20	+18 0.1	3.865	4.608	8.8	20.4
12 13	7 44.96	+17 55.9	3.778	4.622	7.0	20.2
12 23	7 39.47	+17 55.1	3.716	4.636	4.8	20.1
1 2	7 33.10	+17 57.0	3.683	4.650	2.5	19.9
1 12	7 26.30	+18 0.7	3.682	4.663	0.8	19.8
1 22	7 19.58	+18 5.4	3.712	4.677	2.7	20.0
2 1	7 13.43	+18 10.2	3.773	4.690	4.9	20.2
2 11	7 8.30	+18 14.7	3.863	4.702	7.0	20.3

105635 2000 SN_{13} 1 11.2 115°.09 4°.1/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.33	+30 23.4	1.696	2.476	16.9	20.1
12 13	7 57.34	+31 2.0	1.623	2.487	13.5	19.9
12 23	7 49.02	+31 40.6	1.572	2.498	9.6	19.7
1 2	7 38.08	+32 12.4	1.545	2.509	5.7	19.5
1 12	7 25.85	+32 31.2	1.547	2.520	4.2	19.4
1 22	7 13.90	+32 33.8	1.577	2.530	7.0	19.6
2 1	7 3.76	+32 20.5	1.634	2.540	10.9	19.9
2 11	6 56.52	+31 54.6	1.714	2.549	14.5	20.1

298910 2004 TN_{84} 1 11.2 160°.72 4°.3/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.68	+31 9.6	1.845	2.618	16.0	21.6
12 13	7 57.51	+31 54.0	1.764	2.624	12.8	21.4
12 23	7 49.12	+32 38.3	1.705	2.629	9.2	21.2
1 2	7 38.15	+33 15.8	1.671	2.633	5.6	21.0
1 12	7 25.84	+33 40.1	1.666	2.636	4.4	20.9
1 22	7 13.68	+33 47.6	1.690	2.640	7.0	21.1
2 1	7 3.14	+33 38.2	1.742	2.642	10.7	21.3
2 11	6 55.37	+33 15.2	1.817	2.644	14.1	21.5

34146 2000 QH_{16} 1 11.2 87°.63 2°.1/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.72	+13 9.9	2.495	3.243	13.0	19.4
12 13	7 47.66	+13 20.6	2.414	3.257	10.4	19.2
12 23	7 41.70	+13 40.7	2.355	3.271	7.4	19.1
1 2	7 34.31	+14 9.2	2.323	3.285	4.2	18.9
1 12	7 26.22	+14 44.2	2.321	3.299	2.1	18.8
1 22	7 18.21	+15 23.1	2.349	3.313	4.1	18.9
2 1	7 11.10	+16 3.3	2.407	3.327	7.2	19.1
2 11	7 5.55	+16 42.6	2.492	3.340	10.0	19.3

166831 2002 VV_{111} 1 11.2 98°.84 4°.6/ 9.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.08	+35 14.3	2.388	3.153	13.0	20.3
12 13	7 53.13	+35 56.1	2.313	3.164	10.5	20.2
12 23	7 45.68	+36 34.4	2.260	3.175	7.7	20.0
1 2	7 36.32	+37 3.8	2.235	3.186	5.4	19.9
1 12	7 26.03	+37 20.0	2.239	3.197	4.7	19.9
1 22	7 15.93	+37 20.8	2.271	3.208	6.4	20.0
2 1	7 7.12	+37 6.4	2.332	3.218	9.0	20.2
2 11	7 0.43	+36 39.5	2.418	3.228	11.6	20.4

466208 2012 QP_{33} 1 11.2 147°.30 1°.9/10.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.70	+28 0.9	2.620	3.383	12.0	21.7
12 13	7 50.87	+28 13.8	2.532	3.388	9.5	21.5
12 23	7 43.94	+28 26.7	2.467	3.393	6.6	21.3
1 2	7 35.43	+28 36.5	2.430	3.397	3.5	21.1
1 12	7 26.12	+28 40.6	2.423	3.401	2.0	21.0
1 22	7 16.94	+28 37.4	2.447	3.405	4.4	21.2
2 1	7 8.76	+28 26.5	2.500	3.409	7.5	21.4
2 11	7 2.33	+28 9.1	2.580	3.412	10.3	21.6

380028 2013 QZ_{42} 1 11.2 174°.68 0°.3/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.59	+21 0.6	2.487	3.243	12.8	21.7
12 13	7 51.60	+20 57.8	2.393	3.245	10.2	21.5
12 23	7 44.47	+20 58.8	2.322	3.247	7.0	21.3
1 2	7 35.70	+21 1.7	2.279	3.249	3.5	21.1
1 12	7 26.10	+21 4.7	2.266	3.250	0.4	20.8
1 22	7 16.57	+21 6.3	2.285	3.250	4.0	21.1
2 1	7 8.03	+21 5.6	2.333	3.250	7.5	21.3
2 11	7 1.24	+21 2.5	2.408	3.250	10.6	21.5

490683 2010 LH_{34} 1 11.2 222°.25 3°.1/12.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 57.00	+11 27.3	2.246	2.983	14.5	23.5
12 13	7 52.30	+11 27.8	2.136	2.971	11.9	23.3
12 23	7 45.23	+11 39.7	2.048	2.958	8.7	23.1
1 2	7 36.22	+12 2.9	1.986	2.944	5.3	22.9
1 12	7 26.06	+12 36.1	1.954	2.929	3.1	22.7
1 22	7 15.73	+13 16.5	1.953	2.913	5.1	22.8
2 1	7 6.29	+14 1.3	1.981	2.897	8.7	23.0
2 11	6 58.68	+14 47.3	2.036	2.879	12.1	23.2

107364 2001 CL_{29} 1 11.2 281°.08 2°.2/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.12	+12 40.1	1.728	2.494	17.2	20.7
12 13	7 50.92	+13 13.9	1.622	2.477	14.0	20.4
12 23	7 44.82	+14 5.2	1.537	2.459	10.1	20.1
1 2	7 36.22	+15 13.1	1.476	2.442	5.6	19.8
1 12	7 26.04	+16 33.4	1.443	2.424	2.2	19.6
1 22	7 15.53	+18 0.0	1.439	2.406	5.6	19.7
2 1	7 6.08	+19 26.4	1.463	2.389	10.4	20.0
2 11	6 58.96	+20 47.2	1.512	2.371	14.7	20.2

88705 Potato 1 11.2 260°.79 4°.4/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 50.99	+ 7 50.4	2.468	3.199	13.5	19.6
12 13	7 47.23	+ 7 25.7	2.367	3.192	11.2	19.4
12 23	7 41.53	+ 7 11.8	2.287	3.185	8.6	19.2
1 2	7 34.31	+ 7 10.0	2.234	3.177	5.9	19.0
1 12	7 26.24	+ 7 20.3	2.208	3.170	4.5	18.9
1 22	7 18.14	+ 7 41.7	2.212	3.162	5.6	19.0
2 1	7 10.83	+ 8 11.9	2.245	3.155	8.1	19.1
2 11	7 5.05	+ 8 48.2	2.304	3.147	10.9	19.3

440425 2005 RG_{33} 1 11.2 53°.72 4°.9/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.91	+11 22.6	1.193	1.980	22.3	20.4
12 13	7 54.24	+10 56.6	1.141	2.003	18.1	20.2
12 23	7 47.01	+10 48.9	1.106	2.028	13.1	20.0
1 2	7 37.11	+11 0.0	1.092	2.053	8.0	19.8
1 12	7 26.02	+11 27.7	1.103	2.078	4.9	19.7
1 22	7 15.45	+12 7.6	1.139	2.103	7.4	19.9
2 1	7 6.94	+12 54.2	1.201	2.129	11.9	20.3
2 11	7 1.54	+13 42.2	1.284	2.154	16.1	20.6

460204 2014 QY_{149} 1 11.2 57°.85 4°.3/10.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.23	+30 46.5	1.649	2.437	17.0	21.8
12 13	7 55.01	+31 24.4	1.579	2.447	13.6	21.6
12 23	7 47.48	+32 1.8	1.529	2.457	9.6	21.4
1 2	7 37.37	+32 32.2	1.504	2.468	5.8	21.2
1 12	7 25.99	+32 49.6	1.507	2.479	4.4	21.1
1 22	7 14.89	+32 50.7	1.537	2.490	7.2	21.3
2 1	7 5.58	+32 35.9	1.593	2.501	11.0	21.6
2 11	6 59.14	+32 8.4	1.673	2.512	14.5	21.8

13602 Pierreboulez 1 11.2 23°.73 0°.6/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.21	+19 47.1	1.530	2.319	18.0	18.6
12 13	7 51.86	+19 48.8	1.452	2.322	14.4	18.4
12 23	7 45.37	+19 58.7	1.393	2.326	10.0	18.1
1 2	7 36.37	+20 14.5	1.359	2.330	5.0	17.8
1 12	7 26.08	+20 32.8	1.351	2.335	0.7	17.5
1 22	7 15.92	+20 50.2	1.371	2.339	5.6	17.9
2 1	7 7.33	+21 4.5	1.417	2.345	10.5	18.2
2 11	7 1.42	+21 14.9	1.487	2.350	14.7	18.4

53790 2000 EV_{105} 1 11.2 319°.60 0°.8/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.73	+16 52.2	2.086	2.854	14.5	19.0
12 13	7 48.36	+17 20.8	1.990	2.848	11.6	18.8
12 23	7 42.61	+17 59.7	1.916	2.842	8.1	18.5
1 2	7 34.96	+18 46.9	1.868	2.837	4.1	18.3
1 12	7 26.22	+19 38.7	1.849	2.831	0.8	18.0
1 22	7 17.40	+20 31.2	1.859	2.826	4.5	18.3
2 1	7 9.58	+21 20.8	1.898	2.821	8.5	18.5
2 11	7 3.65	+22 5.1	1.963	2.816	12.1	18.7

359185 2009 CK_{45} 1 11.2 56°.96 1°.9/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.44	+14 41.0	1.448	2.231	19.2	20.8
12 13	7 52.08	+15 3.3	1.377	2.242	15.4	20.6
12 23	7 45.54	+15 41.0	1.325	2.254	10.8	20.4
1 2	7 36.47	+16 31.8	1.297	2.265	5.8	20.1
1 12	7 26.09	+17 31.0	1.295	2.277	1.9	19.9
1 22	7 15.87	+18 32.5	1.321	2.289	5.8	20.2
2 1	7 7.27	+19 31.1	1.374	2.302	10.7	20.5
2 11	7 1.40	+20 23.4	1.449	2.314	14.9	20.8

27007 1998 FQ_{1} 1 11.2 166°.57 1°.1/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.13	+23 18.1	2.134	2.898	14.4	20.2
12 13	7 54.08	+23 46.1	2.046	2.903	11.4	20.0
12 23	7 46.46	+24 18.8	1.980	2.908	7.8	19.8
1 2	7 36.80	+24 52.6	1.942	2.912	3.9	19.5
1 12	7 26.07	+25 23.3	1.933	2.915	1.3	19.3
1 22	7 15.39	+25 47.7	1.955	2.917	4.9	19.6
2 1	7 5.91	+26 4.2	2.005	2.919	8.7	19.8
2 11	6 58.56	+26 12.8	2.082	2.920	12.1	20.0

141798 2002 NQ_{30} 1 11.2 67°.70 2°.6/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 57.11	+14 52.2	1.598	2.370	18.1	19.8
12 13	7 52.88	+14 45.5	1.533	2.391	14.5	19.6
12 23	7 45.75	+14 50.6	1.488	2.412	10.2	19.4
1 2	7 36.44	+15 6.4	1.468	2.433	5.7	19.2
1 12	7 26.11	+15 30.1	1.475	2.454	2.6	19.1
1 22	7 16.11	+15 58.7	1.509	2.475	5.6	19.3
2 1	7 7.68	+16 28.8	1.571	2.496	9.8	19.6
2 11	7 1.75	+16 58.0	1.658	2.517	13.6	19.9

327947 2007 EJ_{38} 1 11.2 146°.21 3°.2/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.72	+12 13.2	2.129	2.880	14.8	21.4
12 13	7 49.67	+12 2.1	2.040	2.883	12.0	21.2
12 23	7 43.34	+12 1.6	1.972	2.886	8.8	21.0
1 2	7 35.25	+12 11.6	1.930	2.889	5.3	20.8
1 12	7 26.22	+12 31.0	1.917	2.891	3.2	20.6
1 22	7 17.24	+12 57.6	1.933	2.894	5.1	20.8
2 1	7 9.28	+13 28.9	1.977	2.896	8.5	21.0
2 11	7 3.19	+14 2.2	2.047	2.898	11.8	21.2

112868 2002 QT_{34} 1 11.2 130°.11 2°.5/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.75	+12 5.9	2.586	3.326	12.8	20.6
12 13	7 48.43	+12 11.2	2.499	3.336	10.3	20.5
12 23	7 42.23	+12 26.1	2.435	3.347	7.4	20.3
1 2	7 34.62	+12 49.9	2.398	3.357	4.4	20.1
1 12	7 26.29	+13 20.9	2.391	3.367	2.5	20.0
1 22	7 18.03	+13 56.9	2.414	3.376	4.2	20.1
2 1	7 10.61	+14 35.5	2.468	3.385	7.1	20.3
2 11	7 4.72	+15 14.3	2.548	3.394	9.9	20.5

168363 1996 TG_{18} 1 11.2 194°.50 3°.2/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.50	+28 31.9	1.976	2.748	15.1	21.2
12 13	7 55.62	+29 11.9	1.886	2.746	12.1	21.0
12 23	7 47.79	+29 54.0	1.817	2.744	8.5	20.8
1 2	7 37.56	+30 32.6	1.775	2.741	4.8	20.5
1 12	7 26.02	+31 2.1	1.762	2.737	3.3	20.4
1 22	7 14.47	+31 18.7	1.779	2.733	6.2	20.6
2 1	7 4.30	+31 21.5	1.823	2.729	10.0	20.8
2 11	6 56.58	+31 12.0	1.893	2.724	13.5	21.0

226059 2002 GN_{148} 1 11.2 278°.37 0°.6/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.53	+19 52.5	2.036	2.807	14.8	20.9
12 13	7 50.57	+19 52.8	1.943	2.803	11.8	20.7
12 23	7 44.12	+19 59.1	1.872	2.800	8.2	20.5
1 2	7 35.69	+20 9.6	1.827	2.797	4.1	20.2
1 12	7 26.19	+20 21.9	1.810	2.793	0.6	19.9
1 22	7 16.72	+20 33.7	1.823	2.790	4.7	20.2
2 1	7 8.37	+20 43.3	1.864	2.786	8.7	20.5
2 11	7 2.07	+20 50.1	1.931	2.783	12.3	20.7

194757 2001 YJ_{46} 1 11.2 47°.50 3°.0/10.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.12	+24 25.2	1.223	2.031	20.7	20.0
12 13	7 54.88	+25 22.5	1.168	2.049	16.3	19.8
12 23	7 47.78	+26 27.7	1.131	2.069	11.2	19.5
1 2	7 37.63	+27 32.8	1.118	2.089	5.8	19.3
1 12	7 26.02	+28 29.1	1.130	2.110	3.1	19.2
1 22	7 14.85	+29 10.1	1.168	2.131	7.4	19.5
2 1	7 5.88	+29 33.9	1.231	2.153	12.3	19.9
2 11	7 0.30	+29 42.1	1.316	2.174	16.5	20.2

473815 2016 EJ_{112} 1 11.2 321°.69 2°.5/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.75	+14 10.4	1.856	2.624	16.1	21.1
12 13	7 49.40	+14 11.4	1.764	2.620	13.0	20.9
12 23	7 43.45	+14 23.9	1.693	2.615	9.3	20.7
1 2	7 35.41	+14 47.4	1.647	2.611	5.3	20.4
1 12	7 26.22	+15 19.6	1.628	2.607	2.5	20.2
1 22	7 16.99	+15 57.4	1.638	2.604	5.2	20.4
2 1	7 8.90	+16 37.3	1.675	2.600	9.3	20.6
2 11	7 2.93	+17 16.5	1.738	2.597	13.1	20.8

485024 2009 WP_{86} 1 11.2 64°.93 1°.9/11.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.40	+19 4.9	1.251	2.044	21.1	21.7
12 13	7 57.06	+18 34.9	1.191	2.062	16.8	21.4
12 23	7 49.00	+18 13.1	1.149	2.081	11.7	21.2
1 2	7 38.13	+17 58.5	1.130	2.099	6.1	20.9
1 12	7 25.99	+17 49.0	1.136	2.118	1.9	20.7
1 22	7 14.37	+17 42.7	1.169	2.137	6.5	21.1
2 1	7 4.91	+17 38.6	1.227	2.155	11.7	21.4
2 11	6 58.71	+17 35.8	1.308	2.174	16.1	21.7

153061 2000 QY_{168} 1 11.2 50°.86 7°.7/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.46	+ 1 10.7	1.721	2.450	18.6	19.3
12 13	7 49.02	+ 0 41.2	1.652	2.466	15.8	19.1
12 23	7 43.04	+ 0 32.8	1.602	2.483	12.6	18.9
1 2	7 35.13	+ 0 48.4	1.574	2.500	9.6	18.8
1 12	7 26.26	+ 1 27.9	1.572	2.517	7.8	18.7
1 22	7 17.58	+ 2 28.2	1.596	2.535	8.4	18.8
2 1	7 10.18	+ 3 43.7	1.646	2.553	10.8	19.0
2 11	7 4.92	+ 5 7.4	1.721	2.571	13.7	19.2

369656 2011 FU_{109} 1 11.2 54°.07 2°.9/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 53.83	+14 15.5	1.949	2.712	15.6	20.3
12 13	7 49.90	+13 53.9	1.869	2.721	12.6	20.1
12 23	7 43.55	+13 41.5	1.811	2.730	9.0	19.9
1 2	7 35.36	+13 38.4	1.777	2.739	5.3	19.7
1 12	7 26.24	+13 43.5	1.772	2.749	2.9	19.5
1 22	7 17.27	+13 55.2	1.796	2.759	5.2	19.7
2 1	7 9.50	+14 11.3	1.847	2.769	8.8	19.9
2 11	7 3.75	+14 29.9	1.924	2.779	12.2	20.2

343546 2010 FD_{16} 1 11.2 198°.96 2°.2/10.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.69	+28 18.4	2.670	3.434	11.8	21.5
12 13	7 50.18	+28 43.4	2.575	3.432	9.3	21.4
12 23	7 43.56	+29 9.0	2.505	3.430	6.5	21.2
1 2	7 35.33	+29 31.8	2.462	3.428	3.6	21.0
1 12	7 26.24	+29 48.7	2.449	3.425	2.3	20.9
1 22	7 17.19	+29 57.4	2.467	3.423	4.6	21.0
2 1	7 9.07	+29 57.3	2.514	3.420	7.6	21.2
2 11	7 2.63	+29 49.2	2.587	3.417	10.3	21.4

76727 2000 JE_{30} 1 11.2 136°.12 4°.6/ 9.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.22	+35 5.4	2.512	3.276	12.5	19.2
12 13	7 52.46	+35 55.0	2.431	3.281	10.1	19.1
12 23	7 45.27	+36 42.0	2.373	3.287	7.5	18.9
1 2	7 36.21	+37 21.0	2.342	3.292	5.3	18.8
1 12	7 26.17	+37 47.3	2.340	3.297	4.7	18.7
1 22	7 16.21	+37 58.4	2.368	3.302	6.4	18.9
2 1	7 7.41	+37 54.0	2.424	3.306	8.9	19.0
2 11	7 0.62	+37 36.3	2.505	3.311	11.4	19.2

322000 2010 UL_{79} 1 11.2 76°.90 3°.0/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.86	+28 34.5	1.783	2.561	16.3	20.9
12 13	7 55.78	+29 2.7	1.720	2.584	12.9	20.7
12 23	7 47.70	+29 31.2	1.678	2.606	8.9	20.5
1 2	7 37.38	+29 54.7	1.662	2.629	4.9	20.3
1 12	7 26.07	+30 8.4	1.674	2.651	3.1	20.2
1 22	7 15.16	+30 9.9	1.715	2.673	6.1	20.5
2 1	7 5.94	+29 59.4	1.784	2.695	9.8	20.8
2 11	6 59.36	+29 39.3	1.877	2.716	13.2	21.0

314214 2005 NE_{16} 1 11.2 230°.76 0°.9/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.75	+23 30.0	2.173	2.939	14.1	21.9
12 13	7 53.13	+23 46.1	2.070	2.928	11.2	21.7
12 23	7 45.92	+24 6.4	1.989	2.916	7.8	21.5
1 2	7 36.62	+24 27.7	1.934	2.904	3.9	21.2
1 12	7 26.13	+24 46.6	1.909	2.892	1.1	21.0
1 22	7 15.55	+25 0.2	1.915	2.879	4.8	21.2
2 1	7 6.05	+25 7.0	1.949	2.865	8.8	21.4
2 11	6 58.61	+25 7.3	2.010	2.851	12.4	21.6

354391 2003 SX_{323} 1 11.2 159°.77 3°.8/10.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.65	+30 20.7	1.940	2.711	15.4	21.6
12 13	7 56.52	+30 59.1	1.857	2.717	12.3	21.3
12 23	7 48.37	+31 37.6	1.797	2.721	8.7	21.1
1 2	7 37.82	+32 10.3	1.763	2.726	5.2	20.9
1 12	7 26.03	+32 31.6	1.757	2.729	3.9	20.9
1 22	7 14.38	+32 38.3	1.781	2.733	6.5	21.0
2 1	7 4.23	+32 30.0	1.833	2.735	10.1	21.3
2 11	6 56.66	+32 9.5	1.909	2.738	13.5	21.5

495233 2013 HS_{56} 1 11.2 302°.18 4°.1/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.40	+13 36.8	1.543	2.321	18.4	21.7
12 13	7 51.35	+13 0.8	1.447	2.306	15.1	21.5
12 23	7 45.20	+12 35.2	1.370	2.292	11.1	21.2
1 2	7 36.45	+12 21.7	1.316	2.278	6.8	20.9
1 12	7 26.15	+12 20.1	1.288	2.264	4.1	20.7
1 22	7 15.70	+12 29.3	1.287	2.250	6.8	20.8
2 1	7 6.58	+12 47.0	1.312	2.237	11.4	21.0
2 11	7 0.04	+13 10.2	1.359	2.224	15.7	21.3

341876 2008 GW_{77} 1 11.2 124°.31 1°.2/10.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.03	+22 1.8	1.645	2.420	17.6	22.1
12 13	7 57.02	+22 41.4	1.573	2.436	13.9	21.9
12 23	7 48.80	+23 28.9	1.521	2.451	9.5	21.7
1 2	7 38.05	+24 19.2	1.495	2.465	4.7	21.4
1 12	7 26.02	+25 6.1	1.497	2.479	1.4	21.2
1 22	7 14.20	+25 44.7	1.528	2.492	5.8	21.6
2 1	7 4.05	+26 12.7	1.587	2.504	10.3	21.9
2 11	6 56.67	+26 30.2	1.671	2.516	14.3	22.1

204129 2003 XG_{37} 1 11.2 295°.18 5°.4/ 8.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.46	+35 15.0	2.211	2.983	13.7	20.1
12 13	7 52.40	+36 14.1	2.121	2.976	11.1	19.9
12 23	7 45.57	+37 11.5	2.054	2.969	8.4	19.7
1 2	7 36.49	+38 0.7	2.013	2.962	6.0	19.5
1 12	7 26.15	+38 35.7	2.000	2.955	5.5	19.5
1 22	7 15.78	+38 52.9	2.016	2.948	7.4	19.6
2 1	7 6.63	+38 51.4	2.059	2.942	10.2	19.8
2 11	6 59.77	+38 33.8	2.126	2.935	13.0	19.9

109990 2001 SS_{58} 1 11.2 145°.63 6°.0/ 8.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.34	+41 11.5	2.782	3.530	11.8	20.2
12 13	7 54.09	+42 11.4	2.704	3.537	9.8	20.0
12 23	7 46.38	+43 5.5	2.651	3.543	7.8	19.9
1 2	7 36.76	+43 48.0	2.625	3.550	6.3	19.8
1 12	7 26.15	+44 14.3	2.627	3.556	6.1	19.8
1 22	7 15.63	+44 21.8	2.658	3.561	7.3	19.9
2 1	7 6.28	+44 11.1	2.716	3.567	9.2	20.0
2 11	6 58.98	+43 44.9	2.799	3.572	11.1	20.2

105131 2000 MD_{3} 1 11.2 55°.61 0°.5/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.52	+20 28.0	2.243	3.012	13.6	19.5
12 13	7 48.74	+21 5.9	2.159	3.020	10.7	19.3
12 23	7 42.72	+21 50.8	2.098	3.027	7.3	19.1
1 2	7 34.97	+22 39.5	2.064	3.035	3.6	18.9
1 12	7 26.31	+23 28.3	2.059	3.042	0.6	18.7
1 22	7 17.68	+24 13.4	2.085	3.050	4.4	19.0
2 1	7 10.08	+24 52.2	2.140	3.058	8.0	19.2
2 11	7 4.29	+25 23.5	2.220	3.066	11.2	19.5

150024 2005 UM_{493} 1 11.2 78°.70 4°.2/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.45	+ 7 30.2	1.898	2.642	16.6	20.0
12 13	7 49.74	+ 7 47.0	1.815	2.650	13.6	19.8
12 23	7 43.55	+ 8 21.3	1.753	2.659	10.2	19.6
1 2	7 35.43	+ 9 13.0	1.715	2.667	6.6	19.4
1 12	7 26.28	+10 19.5	1.705	2.675	4.2	19.3
1 22	7 17.16	+11 36.2	1.723	2.684	5.8	19.4
2 1	7 9.18	+12 57.5	1.771	2.692	9.2	19.6
2 11	7 3.23	+14 18.3	1.844	2.700	12.6	19.8

204359 2004 TM_{9} 1 11.2 36°.35 2°.0/11.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.40	+17 13.9	1.202	2.005	21.2	19.9
12 13	7 52.54	+17 5.9	1.143	2.020	16.9	19.7
12 23	7 46.07	+17 10.5	1.101	2.035	11.8	19.5
1 2	7 36.79	+17 25.9	1.082	2.052	6.2	19.2
1 12	7 26.18	+17 48.4	1.087	2.069	2.0	19.0
1 22	7 15.96	+18 14.1	1.118	2.087	6.4	19.3
2 1	7 7.75	+18 39.3	1.173	2.106	11.6	19.7
2 11	7 2.67	+19 1.8	1.251	2.125	16.1	20.0

271236 2003 UQ_{30} 1 11.2 88°.63 1°.5/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.43	+25 41.1	2.142	2.914	14.1	21.1
12 13	7 51.90	+25 54.1	2.061	2.923	11.1	20.9
12 23	7 44.90	+26 9.0	2.003	2.932	7.6	20.7
1 2	7 36.03	+26 22.5	1.972	2.941	3.9	20.5
1 12	7 26.24	+26 31.5	1.969	2.950	1.6	20.3
1 22	7 16.62	+26 33.7	1.997	2.959	4.8	20.6
2 1	7 8.24	+26 28.7	2.053	2.968	8.5	20.8
2 11	7 1.93	+26 17.3	2.135	2.977	11.7	21.0

238695 2005 EX_{283} 1 11.2 189°.43 6°.9/ 8.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.15	+41 50.3	2.400	3.155	13.2	20.4
12 13	7 55.24	+42 52.7	2.320	3.155	11.1	20.2
12 23	7 47.47	+43 48.6	2.262	3.154	8.9	20.1
1 2	7 37.40	+44 31.3	2.230	3.154	7.3	20.0
1 12	7 26.12	+44 54.8	2.225	3.153	7.0	20.0
1 22	7 14.93	+44 56.2	2.249	3.153	8.4	20.0
2 1	7 5.13	+44 36.3	2.299	3.152	10.5	20.2
2 11	6 57.75	+43 58.7	2.372	3.151	12.7	20.3

488967 2005 UO_{285} 1 11.2 123°.23 1°.3/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.92	+23 48.2	2.305	3.067	13.5	22.6
12 13	7 52.85	+24 20.7	2.227	3.084	10.6	22.5
12 23	7 45.45	+24 57.0	2.173	3.100	7.3	22.3
1 2	7 36.28	+25 33.5	2.146	3.115	3.6	22.1
1 12	7 26.25	+26 6.3	2.149	3.130	1.4	21.9
1 22	7 16.36	+26 32.6	2.183	3.145	4.5	22.2
2 1	7 7.61	+26 50.9	2.246	3.159	8.0	22.4
2 11	7 0.82	+27 1.2	2.336	3.172	11.1	22.6

279455 2010 RF_{99} 1 11.2 347°.76 0°.3/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.52	+22 33.3	1.400	2.203	18.7	20.2
12 13	7 51.03	+22 27.6	1.317	2.196	15.0	19.9
12 23	7 45.13	+22 27.2	1.253	2.190	10.4	19.7
1 2	7 36.45	+22 29.6	1.212	2.184	5.1	19.3
1 12	7 26.23	+22 31.3	1.197	2.180	0.6	19.0
1 22	7 16.06	+22 29.7	1.208	2.176	6.1	19.4
2 1	7 7.57	+22 23.5	1.244	2.174	11.3	19.7
2 11	7 1.99	+22 13.2	1.302	2.172	15.9	19.9

447323 2005 XT_{85} 1 11.2 31°.05 1°.9/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.47	+26 13.6	1.281	2.084	20.1	20.5
12 13	7 55.94	+26 11.7	1.211	2.090	16.0	20.3
12 23	7 48.54	+26 11.8	1.160	2.096	11.1	20.0
1 2	7 38.08	+26 9.4	1.132	2.103	5.6	19.7
1 12	7 26.10	+25 59.7	1.129	2.111	2.0	19.5
1 22	7 14.48	+25 40.7	1.152	2.119	6.8	19.8
2 1	7 5.00	+25 13.3	1.201	2.127	12.0	20.2
2 11	6 58.90	+24 40.2	1.271	2.136	16.6	20.5

442697 2012 UT_{99} 1 11.2 58°.06 3°.9/12.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 57.07	+13 3.9	1.279	2.066	21.1	21.2
12 13	7 53.64	+12 46.0	1.215	2.079	17.1	21.0
12 23	7 46.75	+12 43.8	1.169	2.093	12.3	20.8
1 2	7 37.13	+12 57.4	1.144	2.108	7.2	20.5
1 12	7 26.18	+13 24.6	1.145	2.123	3.9	20.4
1 22	7 15.54	+14 1.1	1.172	2.138	6.9	20.6
2 1	7 6.76	+14 42.4	1.224	2.153	11.6	20.9
2 11	7 1.00	+15 24.2	1.299	2.168	16.0	21.2

333318 2001 OK_{113} 1 11.2 75°.64 1°.4/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.19	+23 58.1	2.302	3.070	13.4	20.5
12 13	7 50.67	+24 33.1	2.232	3.092	10.5	20.4
12 23	7 43.93	+25 11.7	2.186	3.115	7.1	20.2
1 2	7 35.53	+25 50.4	2.167	3.137	3.6	20.0
1 12	7 26.35	+26 25.3	2.178	3.159	1.5	19.9
1 22	7 17.35	+26 53.6	2.219	3.180	4.5	20.1
2 1	7 9.49	+27 13.9	2.289	3.202	7.8	20.4
2 11	7 3.50	+27 26.1	2.385	3.224	10.8	20.6

254668 2005 LW_{15} 1 11.2 143°.67 1°.9/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.41	+15 50.6	2.092	2.848	14.9	21.5
12 13	7 51.84	+15 45.4	2.006	2.855	11.9	21.3
12 23	7 44.87	+15 48.5	1.942	2.862	8.4	21.1
1 2	7 36.06	+15 59.1	1.904	2.869	4.6	20.9
1 12	7 26.30	+16 15.1	1.895	2.875	1.9	20.7
1 22	7 16.63	+16 34.5	1.916	2.881	4.7	20.9
2 1	7 8.09	+16 55.2	1.966	2.887	8.5	21.2
2 11	7 1.54	+17 15.4	2.042	2.892	11.9	21.4

405932 2006 QR_{94} 1 11.2 100°.48 7°.2/ 9.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.55	+39 5.8	1.759	2.530	16.7	20.7
12 13	7 59.48	+39 53.2	1.684	2.535	13.8	20.5
12 23	7 50.74	+40 33.8	1.631	2.539	10.6	20.4
1 2	7 39.10	+40 58.8	1.601	2.544	8.0	20.2
1 12	7 26.03	+41 1.1	1.599	2.548	7.3	20.2
1 22	7 13.29	+40 38.1	1.623	2.552	9.2	20.3
2 1	7 2.58	+39 52.0	1.674	2.557	12.2	20.5
2 11	6 55.08	+38 49.1	1.748	2.561	15.2	20.7

463530 2013 RP_{15} 1 11.2 199°.29 0°.7/11.0 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.93	+24 26.7	2.173	2.939	14.1	22.3
12 13	7 53.11	+24 22.0	2.079	2.937	11.2	22.1
12 23	7 45.78	+24 19.1	2.008	2.936	7.7	21.9
1 2	7 36.52	+24 15.4	1.964	2.934	3.8	21.7
1 12	7 26.26	+24 8.5	1.949	2.932	0.9	21.4
1 22	7 16.08	+23 57.0	1.964	2.929	4.6	21.7
2 1	7 7.09	+23 40.7	2.009	2.927	8.5	21.9
2 11	7 0.17	+23 20.5	2.080	2.924	11.9	22.1

357194 2002 FU_{22} 1 11.2 259°.63 5°.8/ 8.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.64	+32 24.7	1.858	2.634	15.8	21.3
12 13	7 56.53	+33 44.4	1.755	2.616	12.8	21.1
12 23	7 49.02	+35 7.6	1.675	2.596	9.5	20.8
1 2	7 38.50	+36 26.1	1.621	2.576	6.6	20.6
1 12	7 26.05	+37 30.8	1.595	2.555	6.0	20.5
1 22	7 13.20	+38 14.6	1.597	2.534	8.5	20.6
2 1	7 1.66	+38 34.9	1.626	2.513	12.2	20.8
2 11	6 52.91	+38 34.1	1.678	2.491	15.7	21.0

99179 2001 FP_{175} 1 11.2 55°.62 0°.7/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.64	+20 2.0	2.059	2.831	14.6	19.1
12 13	7 49.91	+20 51.4	1.973	2.835	11.5	18.9
12 23	7 43.72	+21 49.7	1.910	2.840	7.9	18.7
1 2	7 35.56	+22 53.2	1.874	2.845	3.9	18.5
1 12	7 26.34	+23 56.9	1.867	2.850	0.8	18.3
1 22	7 17.11	+24 56.0	1.890	2.855	4.8	18.6
2 1	7 8.97	+25 47.0	1.942	2.860	8.7	18.8
2 11	7 2.84	+26 28.5	2.019	2.865	12.1	19.0

493896 2015 XS_{226} 1 11.2 285°.19 2°.0/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.07	+17 24.9	1.609	2.388	17.7	21.6
12 13	7 52.59	+17 9.2	1.514	2.378	14.3	21.4
12 23	7 46.01	+17 2.1	1.439	2.367	10.1	21.1
1 2	7 36.86	+17 2.8	1.388	2.356	5.5	20.8
1 12	7 26.23	+17 9.6	1.364	2.345	2.0	20.6
1 22	7 15.49	+17 20.1	1.367	2.334	5.8	20.8
2 1	7 6.13	+17 32.3	1.397	2.323	10.7	21.0
2 11	6 59.34	+17 44.4	1.451	2.313	15.1	21.3

274328 2008 RX_{11} 1 11.2 12°.09 1°.2/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.47	+23 37.9	2.035	2.812	14.6	21.0
12 13	7 50.62	+24 1.7	1.948	2.812	11.5	20.8
12 23	7 44.22	+24 30.1	1.882	2.813	7.9	20.6
1 2	7 35.81	+24 59.8	1.843	2.813	4.0	20.3
1 12	7 26.33	+25 26.7	1.832	2.814	1.3	20.1
1 22	7 16.89	+25 47.9	1.851	2.815	4.9	20.4
2 1	7 8.63	+26 1.5	1.898	2.816	8.9	20.6
2 11	7 2.47	+26 7.7	1.970	2.817	12.3	20.9

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
337736 2001 UR_{72}			1 11.2 106°.97	6°.4/ 7.5 18		
	h m	° ′			°	m
12 3	8 2.17	+43 5.5	2.934	3.671	11.5	21.8
12 13	7 56.28	+44 30.0	2.875	3.695	9.6	21.7
12 23	7 47.89	+45 47.7	2.839	3.718	7.8	21.6
1 2	7 37.54	+46 52.3	2.832	3.741	6.6	21.5
1 12	7 26.18	+47 38.7	2.854	3.763	6.5	21.6
1 22	7 14.90	+48 4.4	2.904	3.785	7.6	21.7
2 1	7 4.82	+48 9.8	2.982	3.806	9.2	21.8
2 11	6 56.81	+47 57.9	3.084	3.827	10.8	21.9
178454 1999 JF_{101}			1 11.2 177°.40	0°.7/11.6 18		
12 3	7 55.17	+17 5.1	2.836	3.579	11.7	21.3
12 13	7 50.30	+17 30.9	2.738	3.581	9.3	21.2
12 23	7 43.56	+18 3.7	2.663	3.583	6.5	21.0
1 2	7 35.37	+18 41.7	2.617	3.584	3.3	20.8
1 12	7 26.40	+19 22.3	2.602	3.585	0.7	20.6
1 22	7 17.39	+20 2.9	2.619	3.585	3.6	20.8
2 1	7 9.16	+20 41.2	2.668	3.584	6.7	21.0
2 11	7 2.38	+21 15.8	2.744	3.582	9.5	21.2
462165 2007 TK_{202}			1 11.2 158°.02	4°.9/ 8.6 18		
12 3	7 58.15	+37 53.8	2.968	3.718	11.0	21.9
12 13	7 52.94	+38 53.2	2.886	3.725	9.0	21.8
12 23	7 45.52	+39 48.8	2.829	3.731	6.9	21.6
1 2	7 36.38	+40 35.7	2.800	3.737	5.3	21.5
1 12	7 26.33	+41 9.4	2.800	3.742	5.0	21.5
1 22	7 16.30	+41 27.5	2.830	3.747	6.3	21.6
2 1	7 7.26	+41 29.7	2.889	3.751	8.3	21.8
2 11	7 0.01	+41 18.0	2.973	3.755	10.3	21.9
131219 2001 DT_{76}			1 11.2 272°.90	0°.1/11.2 18		
12 3	7 55.31	+21 13.0	2.329	3.092	13.4	20.5
12 13	7 51.10	+21 14.8	2.213	3.069	10.7	20.2
12 23	7 44.53	+21 21.1	2.119	3.046	7.4	20.0
1 2	7 36.02	+21 30.0	2.052	3.022	3.7	19.7
1 12	7 26.35	+21 39.2	2.015	2.998	0.3	19.4
1 22	7 16.51	+21 46.5	2.008	2.974	4.4	19.7
2 1	7 7.55	+21 50.7	2.030	2.949	8.3	19.9
2 11	7 0.40	+21 51.4	2.078	2.924	11.8	20.0
88430 2001 QB_{65}			1 11.2 114°.66	4°.2/12.7 18		
12 3	7 59.46	+ 9 50.0	1.809	2.552	17.3	20.2
12 13	7 54.42	+ 9 38.0	1.737	2.572	14.1	20.1
12 23	7 46.71	+ 9 40.3	1.685	2.592	10.4	19.9
1 2	7 36.99	+ 9 57.1	1.658	2.612	6.6	19.7
1 12	7 26.28	+10 26.7	1.659	2.630	4.2	19.6
1 22	7 15.81	+11 6.0	1.689	2.648	6.0	19.7
2 1	7 6.72	+11 51.2	1.748	2.665	9.6	20.0
2 11	6 59.91	+12 38.5	1.832	2.681	13.0	20.2
343025 2009 BN_{120}			1 11.2 196°.74	1°.7/10.6 18		
12 3	7 55.63	+27 48.2	2.830	3.588	11.3	21.3
12 13	7 50.76	+27 56.6	2.732	3.586	9.0	21.2
12 23	7 43.90	+28 4.9	2.659	3.584	6.2	21.0
1 2	7 35.54	+28 10.3	2.614	3.581	3.3	20.8
1 12	7 26.41	+28 10.6	2.599	3.578	1.8	20.7
1 22	7 17.34	+28 4.3	2.616	3.575	4.1	20.8
2 1	7 9.17	+27 51.2	2.663	3.571	7.1	21.0
2 11	7 2.60	+27 32.2	2.736	3.568	9.8	21.2
369099 2008 GU_{136}			1 11.2 262°.79	2°.0/11.8 18		
12 3	7 54.90	+16 2.4	1.986	2.749	15.3	21.5
12 13	7 51.04	+15 54.5	1.883	2.737	12.4	21.3
12 23	7 44.61	+15 55.1	1.802	2.725	8.8	21.1
1 2	7 36.08	+16 3.6	1.747	2.712	4.9	20.8
1 12	7 26.35	+16 18.5	1.719	2.700	2.0	20.6
1 22	7 16.51	+16 37.4	1.721	2.687	5.0	20.7
2 1	7 7.73	+16 58.2	1.751	2.674	9.2	21.0
2 11	7 0.99	+17 18.9	1.807	2.661	12.9	21.2
355285 2007 RW_{92}			1 11.2 126°.71	3°.8/10.1 18		
12 3	8 2.22	+30 13.3	1.826	2.600	16.1	21.5
12 13	7 57.10	+30 51.6	1.750	2.611	12.8	21.3
12 23	7 48.84	+31 29.9	1.697	2.622	9.1	21.1
1 2	7 38.13	+32 2.0	1.669	2.632	5.4	20.9
1 12	7 26.19	+32 22.1	1.669	2.642	3.9	20.8
1 22	7 14.48	+32 27.1	1.699	2.652	6.7	21.0
2 1	7 4.42	+32 17.0	1.756	2.661	10.4	21.2
2 11	6 57.07	+31 54.8	1.837	2.669	13.8	21.4
171072 2005 ER_{165}			1 11.2 18°.49	1°.8/11.7 18		
12 3	7 52.57	+16 54.6	1.252	2.057	20.4	20.3
12 13	7 50.38	+16 56.2	1.184	2.062	16.4	20.0
12 23	7 44.70	+17 11.1	1.134	2.069	11.5	19.8
1 2	7 36.24	+17 37.5	1.106	2.077	6.0	19.5
1 12	7 26.34	+18 11.6	1.103	2.086	1.8	19.2
1 22	7 16.64	+18 48.4	1.126	2.095	6.3	19.5
2 1	7 8.74	+19 23.9	1.173	2.106	11.5	19.9
2 11	7 3.84	+19 55.1	1.242	2.118	16.1	20.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
325356 2008 LU_{11}			1 11.2 132°.95	2°.8/12.4 18		
	h m	° ′			°	m
12 3	7 54.77	+11 54.7	2.380	3.119	13.7	21.9
12 13	7 50.20	+11 51.3	2.295	3.131	11.1	21.8
12 23	7 43.58	+11 57.8	2.232	3.143	8.1	21.6
1 2	7 35.40	+12 13.9	2.196	3.154	4.9	21.4
1 12	7 26.44	+12 38.2	2.190	3.165	2.9	21.3
1 22	7 17.57	+13 8.6	2.214	3.175	4.6	21.4
2 1	7 9.66	+13 42.4	2.267	3.184	7.7	21.6
2 11	7 3.43	+14 17.4	2.348	3.194	10.6	21.8
503816 2017 KK_{12}			1 11.2 225°.03	2°.8/ 9.9 18		
12 3	7 57.61	+26 16.4	2.052	2.825	14.6	21.5
12 13	7 53.36	+27 11.9	1.956	2.818	11.6	21.3
12 23	7 46.32	+28 12.5	1.882	2.810	8.1	21.1
1 2	7 36.98	+29 13.0	1.835	2.803	4.5	20.8
1 12	7 26.30	+30 7.5	1.818	2.795	2.9	20.7
1 22	7 15.47	+30 50.9	1.830	2.786	5.9	20.9
2 1	7 5.80	+31 20.7	1.871	2.777	9.7	21.1
2 11	6 58.36	+31 37.2	1.936	2.768	13.2	21.3
178880 2001 NU_{17}			1 11.2 199°.46	1°.5/10.7 18		
12 3	7 59.12	+25 38.6	2.394	3.153	13.1	21.6
12 13	7 53.92	+25 56.4	2.295	3.149	10.4	21.4
12 23	7 46.33	+26 16.4	2.219	3.145	7.2	21.1
1 2	7 36.84	+26 35.1	2.171	3.139	3.7	20.9
1 12	7 26.32	+26 49.2	2.153	3.133	1.6	20.8
1 22	7 15.80	+26 56.4	2.166	3.127	4.7	21.0
2 1	7 6.33	+26 55.7	2.209	3.119	8.2	21.2
2 11	6 58.80	+26 48.0	2.278	3.111	11.4	21.4
25072 1998 QB_{93}			1 11.2 56°.59	0°.1/11.2 18		
12 3	7 57.38	+19 57.7	1.513	2.300	18.3	18.0
12 13	7 53.43	+20 23.7	1.452	2.322	14.5	17.8
12 23	7 46.34	+20 58.9	1.412	2.344	9.9	17.5
1 2	7 36.89	+21 39.3	1.395	2.367	4.8	17.3
1 12	7 26.32	+22 19.8	1.406	2.390	0.5	17.0
1 22	7 16.11	+22 55.8	1.445	2.413	5.5	17.5
2 1	7 7.61	+23 24.7	1.511	2.436	10.2	17.8
2 11	7 1.82	+23 45.6	1.600	2.459	14.1	18.1
393251 2013 SM_{45}			1 11.2 334°.98	1°.0/11.5 18		
12 3	7 53.82	+18 16.2	2.045	2.813	14.8	21.6
12 13	7 50.02	+18 20.6	1.954	2.812	11.8	21.4
12 23	7 43.78	+18 32.5	1.885	2.812	8.2	21.2
1 2	7 35.62	+18 50.3	1.842	2.811	4.2	20.9
1 12	7 26.43	+19 11.5	1.828	2.810	1.0	20.7
1 22	7 17.26	+19 33.4	1.842	2.810	4.6	21.0
2 1	7 9.19	+19 53.9	1.886	2.809	8.6	21.2
2 11	7 3.11	+20 11.8	1.955	2.808	12.1	21.4
105158 2000 OL			1 11.2 183°.22	2°.0/10.4 18		
12 3	8 0.06	+29 12.2	3.205	3.948	10.4	19.7
12 13	7 53.96	+29 29.1	3.104	3.949	8.3	19.5
12 23	7 45.97	+29 45.1	3.030	3.949	5.8	19.4
1 2	7 36.54	+29 57.4	2.984	3.948	3.2	19.2
1 12	7 26.37	+30 3.3	2.971	3.946	2.1	19.1
1 22	7 16.25	+30 1.4	2.990	3.944	4.0	19.2
2 1	7 6.99	+29 51.4	3.041	3.940	6.7	19.4
2 11	6 59.25	+29 34.4	3.119	3.936	9.1	19.6
448111 2008 NL_{5}			1 11.2 159°.55	3°.1/12.0 18		
12 3	8 0.87	+14 7.3	1.933	2.680	16.2	21.5
12 13	7 55.53	+13 40.8	1.846	2.688	13.1	21.3
12 23	7 47.52	+13 23.1	1.781	2.695	9.5	21.1
1 2	7 37.43	+13 14.4	1.741	2.702	5.6	20.9
1 12	7 26.28	+13 13.9	1.731	2.707	3.1	20.8
1 22	7 15.25	+13 20.1	1.750	2.712	5.5	20.9
2 1	7 5.51	+13 31.3	1.799	2.716	9.4	21.2
2 11	6 58.01	+13 45.5	1.873	2.719	12.9	21.4
434585 2005 UE_{159}			1 11.2 243°.12	15°.5/12.5 18		
12 3	7 59.48	− 3 3.2	1.294	2.019	23.9	20.9
12 13	7 55.83	− 5 40.7	1.218	2.014	21.3	20.7
12 23	7 48.58	− 7 59.9	1.158	2.008	18.6	20.5
1 2	7 38.29	− 9 48.7	1.117	2.003	16.4	20.3
1 12	7 26.19	−10 56.7	1.098	1.997	15.5	20.3
1 22	7 13.94	−11 18.6	1.101	1.991	16.2	20.3
2 1	7 3.30	−10 56.2	1.124	1.985	18.4	20.4
2 11	6 55.70	− 9 58.5	1.165	1.979	21.2	20.6
138454 2000 JQ_{11}			1 11.2 308°.40	5°.8/12.1 18		
12 3	7 53.90	+11 22.3	1.614	2.383	18.1	19.7
12 13	7 50.94	+10 19.5	1.508	2.359	15.1	19.4
12 23	7 44.97	+ 9 25.5	1.422	2.335	11.5	19.1
1 2	7 36.45	+ 8 43.3	1.359	2.312	7.8	18.8
1 12	7 26.35	+ 8 15.3	1.321	2.289	5.8	18.7
1 22	7 15.98	+ 8 2.5	1.311	2.266	7.8	18.7
2 1	7 6.78	+ 8 4.2	1.326	2.244	11.9	18.9
2 11	7 0.00	+ 8 17.6	1.364	2.223	16.0	19.1

104845 2000 HZ_{72} 1 11.2 129°.88 0°.2/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 55.08	+17 50.8	1.831	2.604	16.1	20.2
12 13	7 51.39	+18 33.0	1.744	2.605	12.8	19.9
12 23	7 44.96	+19 27.0	1.677	2.606	8.9	19.7
1 2	7 36.30	+20 29.3	1.637	2.607	4.4	19.4
1 12	7 26.38	+21 34.8	1.625	2.608	0.4	19.1
1 22	7 16.41	+22 38.2	1.642	2.609	5.1	19.5
2 1	7 7.66	+23 35.1	1.687	2.610	9.5	19.7
2 11	7 1.16	+24 23.1	1.758	2.610	13.3	20.0

16203 Jessicastahl 1 11.2 147°.76 1°.6/11.8 18

12 3	7 56.72	+16 3.3	2.135	2.890	14.7	19.3
12 13	7 52.07	+16 8.1	2.049	2.898	11.7	19.1
12 23	7 45.06	+16 21.7	1.984	2.905	8.3	18.9
1 2	7 36.21	+16 42.4	1.947	2.913	4.4	18.7
1 12	7 26.40	+17 8.2	1.938	2.919	1.6	18.5
1 22	7 16.68	+17 36.1	1.960	2.925	4.5	18.7
2 1	7 8.06	+18 4.0	2.011	2.931	8.3	18.9
2 11	7 1.39	+18 30.0	2.088	2.936	11.7	19.2

18866 1999 RA_{208} 1 11.2 235°.11 5°.5/12.5 18

12 3	7 56.88	+ 8 49.1	1.977	2.715	16.2	18.3
12 13	7 52.52	+ 8 0.0	1.874	2.704	13.5	18.1
12 23	7 45.60	+ 7 21.5	1.793	2.693	10.4	17.9
1 2	7 36.58	+ 6 56.0	1.736	2.681	7.2	17.7
1 12	7 26.37	+ 6 44.8	1.708	2.669	5.5	17.5
1 22	7 16.04	+ 6 47.7	1.708	2.657	7.0	17.6
2 1	7 6.76	+ 7 3.1	1.735	2.644	10.2	17.8
2 11	6 59.52	+ 7 28.0	1.788	2.631	13.6	17.9

7233 Majella 1 11.2 247°.84 6°.4/ 8.8 18 R

12 3	8 0.95	+37 33.9	2.100	2.866	14.5	17.0
12 13	7 56.31	+38 34.8	2.007	2.856	12.0	16.8
12 23	7 48.53	+39 32.5	1.936	2.845	9.2	16.6
1 2	7 38.13	+40 19.5	1.892	2.834	7.0	16.5
1 12	7 26.24	+40 48.7	1.875	2.822	6.5	16.4
1 22	7 14.28	+40 56.1	1.886	2.811	8.4	16.5
2 1	7 3.74	+40 41.6	1.923	2.799	11.2	16.6
2 11	6 55.81	+40 8.7	1.985	2.787	14.0	16.8

85605 1998 FO_{132} 1 11.2 250°.77 4°.1/ 9.4 17

12 3	7 56.80	+35 0.3	2.850	3.607	11.3	20.1
12 13	7 52.01	+35 37.8	2.745	3.592	9.2	19.9
12 23	7 45.00	+36 12.9	2.663	3.576	6.8	19.7
1 2	7 36.21	+36 41.3	2.609	3.559	4.7	19.5
1 12	7 26.42	+36 58.9	2.584	3.543	4.2	19.5
1 22	7 16.56	+37 3.2	2.590	3.526	5.8	19.6
2 1	7 7.61	+36 53.8	2.625	3.508	8.2	19.7
2 11	7 0.41	+36 32.3	2.685	3.491	10.7	19.8

63542 2001 PE_{45} 1 11.2 41°.23 2°.5/12.2 18

12 3	7 52.01	+13 47.7	1.999	2.762	15.3	18.5
12 13	7 48.45	+13 44.9	1.924	2.776	12.2	18.3
12 23	7 42.60	+13 52.7	1.869	2.789	8.7	18.1
1 2	7 35.00	+14 10.3	1.840	2.803	5.0	17.9
1 12	7 26.54	+14 35.8	1.840	2.818	2.5	17.7
1 22	7 18.23	+15 6.5	1.868	2.833	4.8	17.9
2 1	7 11.04	+15 39.7	1.924	2.848	8.4	18.2
2 11	7 5.78	+16 12.8	2.006	2.863	11.7	18.4

424332 2007 UK_{81} 1 11.2 61°.34 5°.1/13.4 18

12 3	7 51.32	+ 6 10.1	2.252	2.983	14.7	21.7
12 13	7 47.64	+ 5 47.3	2.168	2.991	12.2	21.5
12 23	7 41.91	+ 5 37.9	2.106	3.000	9.4	21.3
1 2	7 34.64	+ 5 43.1	2.069	3.008	6.7	21.2
1 12	7 26.57	+ 6 2.8	2.059	3.017	5.1	21.1
1 22	7 18.58	+ 6 35.2	2.078	3.026	6.0	21.2
2 1	7 11.52	+ 7 17.3	2.125	3.035	8.5	21.3
2 11	7 6.13	+ 8 5.4	2.198	3.044	11.3	21.5

408849 2001 SY_{122} 1 11.2 93°.93 0°.9/11.5 18

12 3	7 58.50	+19 4.6	1.953	2.716	15.6	21.3
12 13	7 53.55	+19 3.1	1.881	2.737	12.3	21.1
12 23	7 46.06	+19 8.1	1.831	2.757	8.5	20.9
1 2	7 36.67	+19 17.6	1.808	2.777	4.3	20.7
1 12	7 26.41	+19 29.3	1.814	2.796	0.9	20.5
1 22	7 16.41	+19 40.8	1.849	2.816	4.6	20.8
2 1	7 7.76	+19 50.6	1.913	2.834	8.6	21.1
2 11	7 1.31	+19 58.2	2.003	2.853	12.0	21.3

18395 Schmiedmayer 1 11.2 123°.70 2°.8/10.3 18

12 3	8 0.50	+27 3.9	1.775	2.553	16.4	18.1
12 13	7 55.80	+27 42.2	1.699	2.563	13.0	17.9
12 23	7 48.01	+28 23.5	1.644	2.573	9.0	17.6
1 2	7 37.78	+29 2.1	1.614	2.582	4.9	17.4
1 12	7 26.31	+29 32.3	1.613	2.591	2.9	17.3
1 22	7 15.00	+29 50.3	1.641	2.599	6.2	17.5
2 1	7 5.26	+29 55.2	1.696	2.608	10.2	17.8
2 11	6 58.17	+29 48.6	1.776	2.615	13.8	18.0

191001 2001 YP_{53} 1 11.2 356°.91 2°.9/10.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 52.50	+25 14.4	1.139	1.962	20.9	19.0
12 13	7 51.13	+25 48.9	1.067	1.957	16.7	18.7
12 23	7 45.75	+26 30.7	1.012	1.954	11.6	18.4
1 2	7 37.00	+27 13.7	0.980	1.952	6.1	18.1
1 12	7 26.36	+27 50.0	0.970	1.951	3.1	17.9
1 22	7 15.81	+28 13.3	0.986	1.952	7.8	18.2
2 1	7 7.32	+28 21.3	1.024	1.953	13.3	18.5
2 11	7 2.37	+28 15.4	1.082	1.956	18.1	18.8

520794 2014 SZ_{359} 1 11.2 143°.72 7°.3/ 8.4 18

12 3	8 4.07	+40 11.7	2.089	2.848	14.8	21.7
12 13	7 58.74	+41 26.4	2.015	2.855	12.3	21.5
12 23	7 50.13	+42 35.4	1.965	2.863	9.7	21.4
1 2	7 38.87	+43 30.2	1.939	2.870	7.7	21.3
1 12	7 26.23	+44 3.6	1.942	2.876	7.4	21.3
1 22	7 13.72	+44 12.1	1.972	2.882	9.0	21.4
2 1	7 2.89	+43 56.5	2.029	2.888	11.4	21.5
2 11	6 54.87	+43 21.4	2.109	2.893	13.9	21.7

190538 2000 RS_{48} 1 11.2 113°.54 17°.2/15.5 18

12 3	8 0.05	− 9 7.3	1.280	1.975	25.4	19.5
12 13	7 56.09	−11 38.9	1.221	1.986	23.0	19.3
12 23	7 48.58	−13 42.3	1.177	1.995	20.5	19.2
1 2	7 38.21	−15 5.4	1.150	2.005	18.4	19.1
1 12	7 26.30	−15 39.3	1.143	2.014	17.3	19.0
1 22	7 14.51	−15 22.0	1.155	2.023	17.5	19.1
2 1	7 4.52	−14 18.9	1.188	2.031	18.9	19.2
2 11	6 57.59	−12 41.7	1.238	2.039	20.9	19.3

260967 2005 SY_{47} 1 11.2 12°.54 8°.2/13.4 18

12 3	7 48.49	+ 6 53.5	1.220	2.009	21.8	19.4
12 13	7 47.00	+ 5 45.6	1.158	2.015	18.2	19.2
12 23	7 42.30	+ 4 57.2	1.112	2.023	14.2	19.0
1 2	7 35.06	+ 4 33.2	1.087	2.033	10.4	18.8
1 12	7 26.57	+ 4 35.6	1.085	2.045	8.2	18.7
1 22	7 18.30	+ 5 2.4	1.106	2.059	9.4	18.8
2 1	7 11.70	+ 5 48.5	1.151	2.074	12.8	19.0
2 11	7 7.83	+ 6 46.3	1.216	2.091	16.5	19.3

269331 2008 TV_{3} 1 11.2 127°.37 3°.3/10.3 18

12 3	8 0.08	+32 21.3	2.466	3.225	12.8	20.3
12 13	7 54.54	+32 37.2	2.384	3.236	10.2	20.1
12 23	7 46.62	+32 50.3	2.327	3.246	7.3	19.9
1 2	7 36.94	+32 56.5	2.296	3.257	4.4	19.8
1 12	7 26.43	+32 52.6	2.296	3.266	3.3	19.7
1 22	7 16.14	+32 37.1	2.326	3.276	5.3	19.8
2 1	7 7.09	+32 10.7	2.385	3.285	8.2	20.0
2 11	7 0.08	+31 35.8	2.471	3.294	11.0	20.2

33921 2000 LC_{21} 1 11.2 243°.86 1°.6/11.6 18

12 3	7 56.68	+18 44.1	2.565	3.314	12.6	18.9
12 13	7 51.68	+18 5.8	2.460	3.306	10.1	18.7
12 23	7 44.62	+17 30.2	2.379	3.299	7.1	18.5
1 2	7 35.98	+16 57.0	2.326	3.292	3.9	18.3
1 12	7 26.51	+16 26.2	2.304	3.284	1.6	18.1
1 22	7 17.07	+15 57.8	2.312	3.276	4.2	18.3
2 1	7 8.56	+15 31.8	2.352	3.268	7.5	18.5
2 11	7 1.70	+15 8.6	2.418	3.260	10.5	18.7

110905 2001 UZ_{121} 1 11.2 145°.94 3°.4/ 9.4 18

12 3	7 55.77	+32 9.0	2.973	3.730	10.9	20.2
12 13	7 50.92	+32 58.1	2.889	3.739	8.7	20.1
12 23	7 44.08	+33 46.3	2.830	3.747	6.2	19.9
1 2	7 35.71	+34 29.5	2.799	3.755	4.1	19.8
1 12	7 26.54	+35 3.8	2.799	3.763	3.4	19.7
1 22	7 17.40	+35 27.0	2.830	3.770	5.1	19.9
2 1	7 9.16	+35 38.1	2.890	3.777	7.4	20.0
2 11	7 2.51	+35 38.1	2.976	3.784	9.7	20.2

8659 1990 SE_{11} 1 11.2 145°.34 1°.5/10.8 18

12 3	7 58.42	+26 8.0	2.356	3.118	13.2	18.0
12 13	7 53.28	+26 17.1	2.270	3.126	10.5	17.8
12 23	7 45.81	+26 27.2	2.207	3.133	7.2	17.6
1 2	7 36.58	+26 35.4	2.171	3.140	3.7	17.4
1 12	7 26.47	+26 38.8	2.166	3.147	1.5	17.3
1 22	7 16.51	+26 35.6	2.191	3.153	4.5	17.5
2 1	7 7.69	+26 25.6	2.246	3.159	8.0	17.7
2 11	7 0.83	+26 9.7	2.327	3.164	11.0	17.9

203914 2003 MM_{9} 1 11.2 137°.00 1°.0/11.7 18

12 3	7 58.65	+16 23.6	2.059	2.812	15.2	20.9
12 13	7 53.70	+16 50.5	1.977	2.826	12.1	20.7
12 23	7 46.25	+17 27.5	1.917	2.839	8.4	20.5
1 2	7 36.85	+18 12.0	1.884	2.852	4.3	20.2
1 12	7 26.45	+19 0.3	1.881	2.863	1.0	20.0
1 22	7 16.14	+19 48.4	1.908	2.874	4.6	20.3
2 1	7 7.01	+20 33.1	1.965	2.885	8.5	20.6
2 11	6 59.97	+21 12.4	2.049	2.894	12.0	20.8

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
402569 2006 RG_{26}			1 11.2 113°.95		3°.4/10.2 18	
	h m	° ′			°	m
12 3	8 2.58	+30 19.4	1.998	2.766	15.1	22.0
12 13	7 57.01	+30 49.5	1.926	2.783	12.0	21.9
12 23	7 48.57	+31 18.7	1.877	2.800	8.5	21.7
1 2	7 37.98	+31 41.7	1.854	2.817	4.9	21.5
1 12	7 26.36	+31 53.8	1.860	2.833	3.5	21.4
1 22	7 15.05	+31 52.4	1.895	2.849	6.0	21.6
2 1	7 5.29	+31 38.2	1.960	2.864	9.5	21.9
2 11	6 58.02	+31 13.7	2.049	2.878	12.6	22.1
136561 1304 $T\text{-}_3$			1 11.2 95°.42		1°.1/11.6 18	
12 3	7 54.30	+18 18.7	2.587	3.340	12.4	19.9
12 13	7 49.66	+18 9.2	2.507	3.356	9.9	19.8
12 23	7 43.12	+18 4.5	2.450	3.372	6.8	19.6
1 2	7 35.19	+18 3.8	2.421	3.388	3.6	19.4
1 12	7 26.60	+18 5.6	2.422	3.404	1.1	19.2
1 22	7 18.17	+18 8.7	2.454	3.420	3.8	19.5
2 1	7 10.68	+18 12.1	2.516	3.435	6.9	19.7
2 11	7 4.79	+18 15.0	2.605	3.450	9.7	19.9
86551 Seth			1 11.2 156°.49		2°.0/11.8 18	
12 3	7 59.71	+16 0.8	1.879	2.636	16.3	19.9
12 13	7 54.79	+15 55.3	1.794	2.644	13.1	19.6
12 23	7 47.13	+15 59.0	1.729	2.650	9.3	19.4
1 2	7 37.33	+16 10.8	1.691	2.656	5.0	19.2
1 12	7 26.41	+16 28.4	1.681	2.662	2.0	19.0
1 22	7 15.59	+16 49.2	1.701	2.667	5.1	19.2
2 1	7 6.07	+17 10.9	1.750	2.671	9.3	19.5
2 11	6 58.84	+17 31.8	1.824	2.674	13.0	19.7
307720 2003 UZ_{158}			1 11.2 209°.02		4°.4/ 9.6 18	
12 3	7 59.78	+30 27.7	1.852	2.631	15.8	21.0
12 13	7 55.46	+31 24.3	1.765	2.628	12.6	20.8
12 23	7 47.99	+32 22.9	1.700	2.625	9.1	20.6
1 2	7 37.91	+33 16.5	1.660	2.622	5.7	20.3
1 12	7 26.36	+33 58.2	1.649	2.618	4.6	20.3
1 22	7 14.77	+34 23.2	1.666	2.614	7.2	20.4
2 1	7 4.63	+34 30.2	1.710	2.610	10.9	20.6
2 11	6 57.14	+34 21.5	1.778	2.606	14.3	20.8
188583 2005 MU_5			1 11.2 161°.39		2°.8/12.2 18	
12 3	8 0.25	+13 9.7	1.915	2.661	16.4	22.0
12 13	7 55.15	+13 7.4	1.828	2.669	13.3	21.8
12 23	7 47.36	+13 16.6	1.762	2.677	9.5	21.6
1 2	7 37.45	+13 36.7	1.722	2.683	5.5	21.4
1 12	7 26.41	+14 5.5	1.710	2.688	2.8	21.2
1 22	7 15.43	+14 40.1	1.729	2.692	5.4	21.4
2 1	7 5.71	+15 17.3	1.777	2.696	9.3	21.6
2 11	6 58.22	+15 54.3	1.850	2.698	13.0	21.9
273308 2006 ST_{213}			1 11.2 103°.06		1°.9/11.8 18	
12 3	8 2.22	+16 28.9	1.458	2.231	19.5	21.5
12 13	7 57.34	+16 27.6	1.391	2.251	15.6	21.3
12 23	7 49.13	+16 37.9	1.344	2.270	10.9	21.1
1 2	7 38.35	+16 57.7	1.321	2.289	5.8	20.9
1 12	7 26.34	+17 23.6	1.326	2.307	1.9	20.7
1 22	7 14.68	+17 51.7	1.358	2.325	5.9	21.0
2 1	7 4.85	+18 18.9	1.417	2.342	10.7	21.3
2 11	6 57.93	+18 43.4	1.500	2.358	14.9	21.6
325238 2008 GK_{67}			1 11.2 287°.87		2°.6/10.3 17	
12 3	7 56.31	+26 2.8	1.834	2.617	15.7	21.5
12 13	7 52.84	+26 41.4	1.727	2.595	12.6	21.2
12 23	7 46.32	+27 25.5	1.642	2.573	8.9	20.9
1 2	7 37.19	+28 10.3	1.581	2.550	4.8	20.6
1 12	7 26.41	+28 49.9	1.549	2.528	2.8	20.5
1 22	7 15.34	+29 19.3	1.545	2.505	6.3	20.6
2 1	7 5.44	+29 35.9	1.568	2.482	10.7	20.8
2 11	6 58.01	+29 40.1	1.615	2.460	14.7	21.0
83229 2001 RK_{36}			1 11.2 266°.12		2°.0/10.6 18	
12 3	7 56.01	+27 50.6	2.343	3.112	13.1	19.4
12 13	7 51.55	+28 0.7	2.250	3.109	10.4	19.2
12 23	7 44.74	+28 10.9	2.180	3.107	7.2	19.0
1 2	7 36.10	+28 18.1	2.136	3.104	3.9	18.8
1 12	7 26.53	+28 19.2	2.122	3.101	2.1	18.6
1 22	7 17.02	+28 12.5	2.138	3.099	4.8	18.8
2 1	7 8.62	+27 57.7	2.184	3.096	8.2	19.0
2 11	7 2.14	+27 36.1	2.255	3.093	11.3	19.2
73652 1981 EN_3			1 11.2 325°.97		10°.3/13.3 18	
12 3	7 50.28	+ 2 39.9	1.423	2.180	20.7	19.5
12 13	7 48.35	+ 1 14.8	1.331	2.162	17.9	19.2
12 23	7 43.36	+ 0 6.7	1.256	2.144	14.8	19.0
1 2	7 35.75	− 0 37.4	1.201	2.127	11.9	18.8
1 12	7 26.54	− 0 52.4	1.170	2.111	10.4	18.6
1 22	7 17.11	− 0 36.5	1.161	2.096	11.3	18.6
2 1	7 8.93	+ 0 7.3	1.176	2.082	14.2	18.8
2 11	7 3.30	+ 1 12.2	1.212	2.069	17.8	18.9

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
450049 2015 RX_{26}			1 11.2 73°.42		2°.6/12.1 18	
	h m	° ′			°	m
12 3	8 0.10	+13 54.2	1.451	2.223	19.7	21.5
12 13	7 55.51	+14 2.7	1.394	2.251	15.7	21.3
12 23	7 47.76	+14 25.9	1.355	2.279	11.1	21.1
1 2	7 37.62	+15 1.7	1.341	2.306	6.1	20.9
1 12	7 26.43	+15 46.0	1.354	2.334	2.6	20.8
1 22	7 15.65	+16 33.9	1.394	2.361	5.8	21.1
2 1	7 6.68	+17 21.0	1.462	2.388	10.4	21.4
2 11	7 0.48	+18 4.3	1.554	2.414	14.3	21.7
234535 2001 UB_{198}			1 11.2 68°.51		3°.4/10.1 18	
12 3	7 59.47	+25 38.0	1.401	2.197	19.1	20.4
12 13	7 55.78	+26 39.4	1.335	2.210	15.1	20.2
12 23	7 48.44	+27 47.6	1.289	2.223	10.5	20.0
1 2	7 38.17	+28 55.0	1.267	2.236	5.7	19.7
1 12	7 26.37	+29 52.9	1.272	2.250	3.5	19.6
1 22	7 14.81	+30 35.1	1.303	2.263	7.3	19.9
2 1	7 5.17	+30 59.3	1.361	2.276	11.9	20.2
2 11	6 58.71	+31 7.5	1.441	2.290	15.9	20.5
68755 2002 EN_{79}			1 11.2 203°.68		0°.8/11.4 18	
12 3	7 58.86	+19 57.0	1.836	2.605	16.2	19.9
12 13	7 54.35	+19 48.0	1.744	2.603	13.0	19.6
12 23	7 46.99	+19 44.9	1.673	2.600	9.0	19.4
1 2	7 37.34	+19 45.8	1.628	2.597	4.6	19.1
1 12	7 26.45	+19 48.4	1.611	2.594	0.8	18.8
1 22	7 15.59	+19 50.7	1.623	2.590	5.1	19.1
2 1	7 6.05	+19 51.5	1.664	2.586	9.6	19.4
2 11	6 58.88	+19 50.3	1.729	2.581	13.5	19.6
416908 2005 RP_{28}			1 11.2 53°.80		1°.5/11.7 18	
12 3	7 55.54	+17 37.1	1.723	2.499	16.9	21.5
12 13	7 51.72	+17 31.1	1.646	2.508	13.4	21.3
12 23	7 45.12	+17 33.7	1.590	2.518	9.4	21.0
1 2	7 36.38	+17 43.6	1.559	2.528	4.9	20.8
1 12	7 26.55	+17 58.2	1.556	2.538	1.5	20.6
1 22	7 16.89	+18 15.0	1.581	2.548	5.2	20.9
2 1	7 8.63	+18 31.8	1.633	2.558	9.5	21.1
2 11	7 2.72	+18 47.1	1.710	2.569	13.3	21.4
163018 2001 UY_{97}			1 11.2 214°.08		1°.5/10.5 18	
12 3	7 54.04	+25 44.6	2.785	3.547	11.4	20.6
12 13	7 49.66	+26 11.2	2.685	3.541	9.0	20.4
12 23	7 43.30	+26 40.0	2.609	3.536	6.2	20.2
1 2	7 35.39	+27 8.2	2.561	3.530	3.3	20.0
1 12	7 26.64	+27 32.7	2.544	3.524	1.6	19.9
1 22	7 17.85	+27 51.1	2.557	3.517	4.1	20.0
2 1	7 9.89	+28 2.4	2.600	3.510	7.2	20.2
2 11	7 3.48	+28 6.4	2.670	3.503	9.9	20.4
408830 2001 QN_{169}			1 11.2 95°.11		5°.0/12.9 18	
12 3	7 58.48	+ 7 46.8	2.135	2.860	15.5	21.4
12 13	7 53.13	+ 7 8.4	2.068	2.888	12.8	21.2
12 23	7 45.58	+ 6 42.3	2.022	2.916	9.7	21.1
1 2	7 36.44	+ 6 29.9	2.002	2.944	6.7	21.0
1 12	7 26.58	+ 6 31.2	2.011	2.970	5.0	20.9
1 22	7 17.00	+ 6 44.7	2.049	2.997	6.1	21.0
2 1	7 8.61	+ 7 8.0	2.116	3.022	8.8	21.2
2 11	7 2.14	+ 7 37.9	2.209	3.047	11.5	21.4
381221 2007 RD_{247}			1 11.3 65°.70		2°.3/10.6 18	
12 3	7 56.77	+28 35.4	2.219	2.990	13.7	20.7
12 13	7 52.19	+28 47.6	2.139	2.999	10.8	20.5
12 23	7 45.17	+28 59.5	2.081	3.008	7.5	20.3
1 2	7 36.32	+29 7.6	2.051	3.018	4.1	20.1
1 12	7 26.59	+29 8.5	2.050	3.027	2.4	20.0
1 22	7 17.05	+29 0.7	2.078	3.037	5.0	20.2
2 1	7 8.74	+28 44.1	2.135	3.046	8.4	20.4
2 11	7 2.50	+28 20.4	2.218	3.056	11.5	20.7
13654 Masuda			1 11.3 127°.64		3°.4/10.3 18	
12 3	8 0.31	+27 15.7	1.457	2.250	18.6	18.9
12 13	7 56.52	+27 53.9	1.378	2.251	14.9	18.7
12 23	7 49.04	+28 36.2	1.320	2.252	10.4	18.4
1 2	7 38.55	+29 16.1	1.285	2.253	5.7	18.2
1 12	7 26.40	+29 46.2	1.276	2.254	3.5	18.0
1 22	7 14.34	+30 1.7	1.295	2.255	7.2	18.3
2 1	7 4.14	+30 1.5	1.340	2.256	11.9	18.5
2 11	6 57.11	+29 48.1	1.407	2.257	16.1	18.8
240485 2004 BF_{150}			1 11.3 296°.56		0°.4/11.1 18	
12 3	7 53.20	+21 43.4	2.206	2.977	13.8	20.8
12 13	7 49.66	+21 58.4	2.093	2.955	11.0	20.5
12 23	7 43.71	+22 19.1	2.003	2.933	7.6	20.3
1 2	7 35.77	+22 43.0	1.940	2.910	3.8	20.0
1 12	7 26.62	+23 7.1	1.905	2.888	0.5	19.7
1 22	7 17.30	+23 28.4	1.900	2.866	4.6	20.0
2 1	7 8.87	+23 44.9	1.924	2.844	8.6	20.2
2 11	7 2.33	+23 56.0	1.973	2.822	12.2	20.4

430282 2013 WT_{57} 1 11.3 193°.17 3°.8/ 9.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 55.99	+31 15.7	2.417	3.186	12.8	21.1
12 13	7 51.68	+32 9.4	2.328	3.185	10.2	20.9
12 23	7 44.95	+33 3.4	2.263	3.184	7.3	20.7
1 2	7 36.30	+33 52.8	2.224	3.183	4.7	20.6
1 12	7 26.59	+34 32.4	2.216	3.182	3.9	20.5
1 22	7 16.86	+34 59.0	2.237	3.181	5.9	20.6
2 1	7 8.18	+35 11.3	2.286	3.180	8.8	20.8
2 11	7 1.45	+35 10.6	2.361	3.178	11.6	21.0

231480 2008 HO_{61} 1 11.3 215°.97 0°.6/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.11	+19 17.0	2.301	3.059	13.6	21.6
12 13	7 51.64	+19 22.9	2.199	3.052	10.9	21.4
12 23	7 44.86	+19 34.9	2.121	3.045	7.6	21.2
1 2	7 36.24	+19 51.2	2.069	3.038	3.8	20.9
1 12	7 26.60	+20 9.3	2.047	3.030	0.6	20.7
1 22	7 16.91	+20 27.0	2.055	3.022	4.3	20.9
2 1	7 8.18	+20 42.6	2.093	3.013	8.1	21.2
2 11	7 1.29	+20 55.0	2.158	3.004	11.4	21.4

520061 2013 WU_{111} 1 11.3 114°.24 2°.4/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.58	+27 2.6	2.526	3.290	12.4	21.3
12 13	7 51.02	+27 49.7	2.446	3.303	9.8	21.2
12 23	7 44.29	+28 39.0	2.390	3.316	6.8	21.0
1 2	7 35.90	+29 26.4	2.362	3.328	3.7	20.8
1 12	7 26.64	+30 7.8	2.364	3.340	2.5	20.8
1 22	7 17.45	+30 39.9	2.396	3.351	4.8	20.9
2 1	7 9.27	+31 1.5	2.458	3.362	7.8	21.1
2 11	7 2.86	+31 13.0	2.546	3.374	10.5	21.3

163180 2002 CU_{270} 1 11.3 223°.08 0°.7/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.42	+22 36.2	1.915	2.684	15.6	21.2
12 13	7 54.88	+22 51.1	1.816	2.676	12.5	21.0
12 23	7 47.45	+23 11.6	1.739	2.667	8.7	20.7
1 2	7 37.65	+23 34.1	1.687	2.658	4.3	20.4
1 12	7 26.49	+23 55.0	1.665	2.648	0.9	20.2
1 22	7 15.24	+24 10.7	1.672	2.637	5.2	20.5
2 1	7 5.24	+24 19.8	1.708	2.626	9.6	20.7
2 11	6 57.58	+24 22.1	1.768	2.615	13.5	20.9

8406 Iwaokusano 1 11.3 250°.77 0°.4/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.50	+19 31.1	1.806	2.578	16.3	18.5
12 13	7 53.56	+19 43.1	1.705	2.566	13.1	18.3
12 23	7 46.67	+20 3.5	1.624	2.552	9.2	18.0
1 2	7 37.33	+20 30.0	1.568	2.539	4.6	17.7
1 12	7 26.51	+20 59.0	1.541	2.524	0.5	17.3
1 22	7 15.52	+21 26.7	1.543	2.510	5.3	17.7
2 1	7 5.73	+21 50.5	1.572	2.495	10.0	17.9
2 11	6 58.32	+22 9.2	1.626	2.480	14.2	18.1

154129 2002 EA_{94} 1 11.3 32°.47 1°.8/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.57	+15 50.3	1.802	2.575	16.3	19.9
12 13	7 50.13	+15 54.0	1.720	2.579	13.1	19.7
12 23	7 44.05	+16 8.3	1.658	2.584	9.2	19.5
1 2	7 35.89	+16 31.9	1.622	2.589	5.0	19.2
1 12	7 26.64	+17 2.0	1.613	2.594	1.8	19.0
1 22	7 17.46	+17 35.4	1.633	2.600	5.0	19.3
2 1	7 9.53	+18 9.0	1.680	2.606	9.2	19.5
2 11	7 3.78	+18 40.4	1.752	2.612	13.0	19.8

323905 2005 TQ_{28} 1 11.3 223°.35 4°.4/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.24	+11 19.7	2.087	2.830	15.3	20.7
12 13	7 51.84	+10 34.5	1.989	2.825	12.6	20.5
12 23	7 45.04	+ 9 58.0	1.913	2.820	9.4	20.3
1 2	7 36.35	+ 9 31.8	1.863	2.815	6.2	20.1
1 12	7 26.62	+ 9 16.6	1.841	2.809	4.4	20.0
1 22	7 16.87	+ 9 11.9	1.849	2.803	6.0	20.0
2 1	7 8.17	+ 9 16.7	1.884	2.797	9.3	20.2
2 11	7 1.39	+ 9 28.7	1.946	2.791	12.5	20.4

417100 2005 UU_{372} 1 11.3 69°.87 0°.2/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.06	+21 34.0	1.898	2.673	15.5	21.5
12 13	7 52.00	+21 41.7	1.815	2.678	12.3	21.3
12 23	7 45.28	+21 54.9	1.754	2.684	8.5	21.0
1 2	7 36.48	+22 10.9	1.719	2.690	4.2	20.8
1 12	7 26.61	+22 26.6	1.712	2.695	0.4	20.5
1 22	7 16.86	+22 39.3	1.734	2.701	4.9	20.9
2 1	7 8.40	+22 47.5	1.785	2.707	9.0	21.1
2 11	7 2.17	+22 51.0	1.860	2.713	12.7	21.4

348577 2005 WU_{71} 1 11.3 62°.22 1°.9/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.64	+22 18.5	1.277	2.074	20.5	20.3
12 13	7 56.69	+23 9.2	1.222	2.098	16.1	20.1
12 23	7 48.99	+24 9.4	1.187	2.122	11.0	19.9
1 2	7 38.41	+25 12.0	1.175	2.147	5.5	19.7
1 12	7 26.46	+26 9.1	1.189	2.171	2.0	19.5
1 22	7 14.98	+26 54.2	1.230	2.195	6.7	19.9
2 1	7 5.64	+27 24.9	1.297	2.220	11.7	20.2
2 11	6 59.58	+27 42.0	1.386	2.244	15.9	20.5

27005 1998 DR_{35} 1 11.3 245°.03 3°.2/12.5 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 56.42	+11 24.6	2.036	2.782	15.6	19.0
12 13	7 52.32	+11 29.7	1.925	2.765	12.8	18.8
12 23	7 45.63	+11 48.1	1.835	2.747	9.4	18.5
1 2	7 36.78	+12 19.7	1.770	2.729	5.7	18.3
1 12	7 26.60	+13 2.8	1.734	2.710	3.2	18.1
1 22	7 16.17	+13 54.2	1.728	2.691	5.4	18.2
2 1	7 6.65	+14 50.0	1.751	2.671	9.4	18.4
2 11	6 59.11	+15 46.4	1.799	2.650	13.2	18.6

451238 2010 EV_{108} 1 11.3 296°.61 1°.5/10.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.91	+22 36.9	1.441	2.238	18.6	21.6
12 13	7 53.29	+23 8.2	1.342	2.218	15.0	21.3
12 23	7 47.12	+23 49.3	1.263	2.199	10.5	21.0
1 2	7 37.81	+24 36.0	1.208	2.179	5.3	20.6
1 12	7 26.51	+25 21.8	1.178	2.160	1.7	20.3
1 22	7 14.85	+26 0.4	1.175	2.141	6.7	20.6
2 1	7 4.66	+26 28.1	1.197	2.123	12.2	20.9
2 11	6 57.48	+26 44.0	1.242	2.104	17.1	21.1

111072 2001 VL_{51} 1 11.3 199°.21 0°.1/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.11	+21 46.9	2.140	2.903	14.4	20.3
12 13	7 53.35	+21 40.3	2.044	2.901	11.5	20.1
12 23	7 46.09	+21 37.4	1.972	2.898	7.9	19.8
1 2	7 36.87	+21 36.2	1.926	2.895	3.9	19.6
1 12	7 26.61	+21 34.5	1.909	2.892	0.3	19.3
1 22	7 16.39	+21 30.6	1.923	2.889	4.5	19.6
2 1	7 7.32	+21 23.9	1.965	2.885	8.5	19.9
2 11	7 0.31	+21 14.6	2.034	2.881	12.0	20.1

22894 1999 TW 1 11.3 138°.75 2°.0/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.85	+15 56.9	1.784	2.541	17.1	18.9
12 13	7 56.57	+15 53.9	1.705	2.555	13.7	18.7
12 23	7 48.41	+16 0.7	1.648	2.568	9.7	18.5
1 2	7 38.03	+16 16.0	1.615	2.581	5.2	18.2
1 12	7 26.53	+16 37.0	1.612	2.593	2.0	18.0
1 22	7 15.20	+17 0.9	1.638	2.603	5.3	18.3
2 1	7 5.33	+17 25.1	1.693	2.613	9.6	18.6
2 11	6 57.90	+17 47.9	1.773	2.622	13.4	18.8

53055 1998 XT_{14} 1 11.3 228°.37 1°.4/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.12	+17 2.6	1.737	2.506	17.0	19.9
12 13	7 54.07	+17 7.8	1.641	2.498	13.7	19.7
12 23	7 47.03	+17 23.1	1.565	2.490	9.7	19.4
1 2	7 37.52	+17 47.2	1.514	2.482	5.1	19.1
1 12	7 26.56	+18 16.8	1.490	2.472	1.5	18.8
1 22	7 15.47	+18 48.5	1.496	2.463	5.4	19.1
2 1	7 5.66	+19 19.0	1.529	2.453	10.1	19.3
2 11	6 58.28	+19 46.4	1.587	2.442	14.3	19.6

81433 2000 GC_{108} 1 11.3 181°.46 1°.0/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.49	+22 57.2	2.404	3.162	13.1	19.8
12 13	7 52.65	+23 27.1	2.309	3.164	10.4	19.6
12 23	7 45.52	+24 1.6	2.238	3.164	7.1	19.4
1 2	7 36.58	+24 37.5	2.194	3.164	3.6	19.1
1 12	7 26.65	+25 11.2	2.181	3.163	1.1	19.0
1 22	7 16.70	+25 39.7	2.199	3.162	4.4	19.2
2 1	7 7.75	+26 1.0	2.247	3.160	7.9	19.4
2 11	7 0.63	+26 15.1	2.321	3.158	11.1	19.6

309246 2007 RG_{32} 1 11.3 87°.84 1°.2/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.95	+22 10.5	1.681	2.457	17.2	21.0
12 13	7 56.05	+22 49.7	1.618	2.481	13.6	20.8
12 23	7 48.12	+23 35.9	1.575	2.505	9.3	20.6
1 2	7 37.88	+24 24.1	1.559	2.529	4.6	20.4
1 12	7 26.56	+25 8.6	1.570	2.553	1.3	20.2
1 22	7 15.55	+25 45.0	1.611	2.576	5.5	20.5
2 1	7 6.19	+26 11.2	1.680	2.598	9.8	20.8
2 11	6 59.46	+26 27.5	1.773	2.620	13.5	21.1

296243 2009 DZ_{11} 1 11.3 281°.27 2°.3/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.19	+14 48.0	1.728	2.498	17.0	20.8
12 13	7 51.93	+14 51.1	1.620	2.477	13.9	20.5
12 23	7 45.72	+15 6.6	1.531	2.455	10.0	20.2
1 2	7 36.97	+15 34.0	1.466	2.432	5.6	19.9
1 12	7 26.61	+16 11.0	1.429	2.410	2.3	19.6
1 22	7 15.92	+16 54.0	1.420	2.387	5.7	19.8
2 1	7 6.30	+17 39.0	1.439	2.364	10.5	20.0
2 11	6 59.03	+18 22.6	1.481	2.341	14.9	20.2

12492 Tanais 1 11.3 235°.63 0°.0/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.26	+20 5.3	2.181	2.948	14.0	17.9
12 13	7 50.35	+20 24.0	2.086	2.945	11.1	17.7
12 23	7 44.06	+20 49.3	2.014	2.942	7.7	17.5
1 2	7 35.91	+21 19.0	1.969	2.939	3.8	17.3
1 12	7 26.72	+21 49.8	1.952	2.935	0.3	17.0
1 22	7 17.50	+22 18.7	1.965	2.932	4.4	17.3
2 1	7 9.30	+22 43.5	2.007	2.928	8.3	17.5
2 11	7 3.00	+23 3.2	2.075	2.925	11.7	17.7

38096 1999 JF_{11} 1 11.3 148°.99 0°.6/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.27	+18 48.9	2.000	2.760	15.4	20.1
12 13	7 54.35	+19 0.9	1.916	2.769	12.2	19.9
12 23	7 46.81	+19 20.6	1.853	2.778	8.5	19.6
1 2	7 37.24	+19 45.3	1.817	2.786	4.3	19.4
1 12	7 26.62	+20 12.1	1.810	2.793	0.7	19.1
1 22	7 16.08	+20 37.8	1.834	2.800	4.7	19.5
2 1	7 6.80	+21 0.2	1.886	2.806	8.8	19.7
2 11	6 59.69	+21 18.5	1.964	2.812	12.4	19.9

59402 1999 FR_{32} 1 11.3 100°.31 4°.6/ 9.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 5.42	+31 36.4	1.818	2.587	16.3	17.8
12 13	7 59.59	+32 34.1	1.757	2.613	13.0	17.7
12 23	7 50.56	+33 30.7	1.718	2.639	9.3	17.5
1 2	7 39.08	+34 18.9	1.705	2.664	5.9	17.4
1 12	7 26.48	+34 51.9	1.721	2.688	4.8	17.3
1 22	7 14.26	+35 6.4	1.766	2.712	7.1	17.5
2 1	7 3.86	+35 2.8	1.839	2.735	10.5	17.8
2 11	6 56.28	+34 44.8	1.936	2.757	13.6	18.0

365334 2009 SJ_{201} 1 11.3 25°.66 3°.1/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.77	+13 44.1	1.654	2.429	17.5	21.0
12 13	7 49.67	+13 33.3	1.577	2.436	14.1	20.8
12 23	7 43.83	+13 34.8	1.521	2.443	10.1	20.6
1 2	7 35.83	+13 48.3	1.488	2.451	5.9	20.4
1 12	7 26.73	+14 11.9	1.482	2.460	3.1	20.2
1 22	7 17.75	+14 42.6	1.503	2.469	5.6	20.4
2 1	7 10.11	+15 17.1	1.552	2.479	9.8	20.7
2 11	7 4.78	+15 52.1	1.624	2.489	13.6	20.9

54502 2000 OX_{52} 1 11.3 159°.18 2°.0/10.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.39	+24 47.3	1.937	2.707	15.5	19.7
12 13	7 55.54	+25 28.0	1.853	2.713	12.3	19.5
12 23	7 47.82	+26 13.6	1.791	2.719	8.5	19.3
1 2	7 37.81	+26 59.2	1.755	2.724	4.4	19.1
1 12	7 26.57	+27 39.6	1.748	2.728	2.1	18.9
1 22	7 15.37	+28 10.4	1.771	2.732	5.6	19.2
2 1	7 5.53	+28 29.9	1.823	2.735	9.6	19.4
2 11	6 58.07	+28 38.7	1.900	2.738	13.1	19.6

419825 2010 XH_{42} 1 11.3 85°.97 0°.6/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.82	+20 46.1	1.924	2.698	15.4	21.3
12 13	7 51.81	+21 20.0	1.845	2.708	12.2	21.1
12 23	7 45.16	+22 1.6	1.788	2.717	8.4	20.9
1 2	7 36.46	+22 47.3	1.756	2.727	4.1	20.7
1 12	7 26.68	+23 32.5	1.754	2.737	0.7	20.4
1 22	7 16.99	+24 13.1	1.780	2.746	4.9	20.8
2 1	7 8.55	+24 46.5	1.835	2.756	9.0	21.0
2 11	7 2.30	+25 11.7	1.916	2.765	12.5	21.3

206373 2003 QB_{99} 1 11.3 208°.68 0°.9/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.16	+18 2.9	2.019	2.779	15.2	22.3
12 13	7 53.64	+18 14.4	1.921	2.774	12.2	22.1
12 23	7 46.47	+18 34.3	1.844	2.768	8.5	21.8
1 2	7 37.16	+19 0.5	1.793	2.761	4.4	21.6
1 12	7 26.63	+19 30.2	1.771	2.754	0.9	21.3
1 22	7 16.01	+20 0.0	1.780	2.746	4.8	21.6
2 1	7 6.50	+20 27.5	1.817	2.738	9.0	21.8
2 11	6 59.11	+20 51.0	1.880	2.729	12.8	22.0

238411 2004 ET_{74} 1 11.3 139°.93 5°.8/ 8.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.79	+40 8.7	2.695	3.447	12.0	20.4
12 13	7 53.82	+41 5.2	2.616	3.452	9.9	20.2
12 23	7 46.37	+41 56.4	2.561	3.458	7.8	20.1
1 2	7 37.01	+42 36.6	2.532	3.462	6.2	20.0
1 12	7 26.65	+43 1.1	2.532	3.467	5.9	20.0
1 22	7 16.37	+43 7.3	2.561	3.472	7.2	20.1
2 1	7 7.27	+42 55.7	2.617	3.476	9.2	20.2
2 11	7 0.21	+42 28.9	2.698	3.480	11.3	20.4

98098 2000 RY_{82} 1 11.3 54°.75 6°.5/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.15	+ 7 11.7	1.506	2.265	19.6	19.3
12 13	7 51.77	+ 6 30.7	1.431	2.272	16.3	19.0
12 23	7 45.40	+ 6 7.0	1.374	2.279	12.5	18.8
1 2	7 36.66	+ 6 3.4	1.340	2.286	8.8	18.6
1 12	7 26.67	+ 6 20.5	1.331	2.293	6.6	18.5
1 22	7 16.80	+ 6 55.8	1.348	2.301	8.0	18.6
2 1	7 8.40	+ 7 44.8	1.391	2.309	11.4	18.8
2 11	7 2.52	+ 8 41.7	1.457	2.317	15.1	19.1

132251 2002 EY_{94} 1 11.3 171°.99 0°.6/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.54	+18 25.5	2.057	2.815	15.0	20.8
12 13	7 53.79	+18 41.7	1.966	2.819	12.0	20.6
12 23	7 46.46	+19 6.0	1.898	2.822	8.3	20.4
1 2	7 37.10	+19 36.1	1.855	2.824	4.2	20.2
1 12	7 26.64	+20 8.6	1.843	2.826	0.7	19.9
1 22	7 16.19	+20 40.2	1.860	2.827	4.6	20.2
2 1	7 6.89	+21 8.6	1.907	2.827	8.7	20.5
2 11	6 59.69	+21 32.4	1.980	2.827	12.3	20.7

159562 2001 TS_{237} 1 11.3 43°.57 0°.1/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 56.10	+18 16.6	1.324	2.120	20.0	20.2
12 13	7 53.17	+18 53.1	1.254	2.128	15.9	20.0
12 23	7 46.73	+19 43.7	1.203	2.137	11.0	19.7
1 2	7 37.43	+20 44.1	1.174	2.146	5.4	19.5
1 12	7 26.61	+21 47.7	1.172	2.156	0.4	19.1
1 22	7 15.92	+22 47.6	1.197	2.165	6.2	19.5
2 1	7 7.02	+23 38.7	1.247	2.175	11.5	19.9
2 11	7 1.15	+24 18.9	1.319	2.186	16.0	20.2

306133 2010 JY_{115} 1 11.3 199°.63 0°.3/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.69	+20 24.8	2.121	2.879	14.7	21.8
12 13	7 54.69	+20 29.3	2.022	2.875	11.7	21.6
12 23	7 47.09	+20 39.3	1.946	2.871	8.1	21.4
1 2	7 37.43	+20 52.7	1.896	2.865	4.1	21.1
1 12	7 26.62	+21 6.6	1.876	2.860	0.4	20.8
1 22	7 15.78	+21 18.7	1.887	2.853	4.6	21.2
2 1	7 6.06	+21 27.5	1.927	2.846	8.7	21.4
2 11	6 58.44	+21 32.5	1.993	2.837	12.3	21.6

266418 2007 GM_{3} 1 11.3 265°.69 6°.6/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.31	+ 4 20.7	2.163	2.885	15.5	20.4
12 13	7 49.56	+ 3 32.9	2.059	2.871	13.1	20.2
12 23	7 43.54	+ 2 57.9	1.974	2.857	10.5	20.0
1 2	7 35.68	+ 2 38.7	1.914	2.843	7.9	19.8
1 12	7 26.76	+ 2 37.0	1.881	2.828	6.6	19.7
1 22	7 17.70	+ 2 52.6	1.876	2.814	7.5	19.8
2 1	7 9.51	+ 3 23.5	1.898	2.799	10.0	19.9
2 11	7 3.07	+ 4 5.7	1.946	2.784	12.8	20.0

347605 2001 RK_{61} 1 11.3 114°.44 4°.4/ 9.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.36	+30 18.7	1.700	2.476	17.1	21.3
12 13	7 59.09	+31 13.7	1.632	2.493	13.6	21.1
12 23	7 50.43	+32 9.4	1.585	2.510	9.7	20.9
1 2	7 39.12	+32 58.3	1.564	2.526	5.9	20.7
1 12	7 26.50	+33 33.2	1.572	2.542	4.5	20.7
1 22	7 14.17	+33 50.1	1.607	2.557	7.3	20.9
2 1	7 3.66	+33 48.9	1.670	2.572	11.0	21.2
2 11	6 56.10	+33 33.0	1.757	2.586	14.4	21.4

238091 2003 GP_{49} 1 11.3 312°.68 2°.9/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.48	+13 46.0	1.443	2.226	19.2	20.7
12 13	7 51.73	+13 47.5	1.355	2.219	15.7	20.4
12 23	7 45.72	+14 4.3	1.286	2.212	11.3	20.2
1 2	7 36.99	+14 36.2	1.239	2.205	6.4	19.9
1 12	7 26.66	+15 20.1	1.219	2.199	2.9	19.6
1 22	7 16.20	+16 11.5	1.225	2.193	6.3	19.8
2 1	7 7.19	+17 5.3	1.257	2.187	11.3	20.1
2 11	7 0.91	+17 57.0	1.312	2.181	15.9	20.3

104355 2000 FF_{20} 1 11.3 16°.00 4°.4/ 9.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.34	+32 10.5	2.199	2.973	13.7	19.4
12 13	7 52.26	+33 8.2	2.114	2.973	11.0	19.2
12 23	7 45.54	+34 6.0	2.052	2.973	8.0	19.0
1 2	7 36.70	+34 57.9	2.017	2.974	5.3	18.8
1 12	7 26.69	+35 38.3	2.010	2.974	4.5	18.8
1 22	7 16.68	+36 3.5	2.032	2.974	6.6	18.9
2 1	7 7.87	+36 12.4	2.082	2.975	9.6	19.1
2 11	7 1.23	+36 6.7	2.156	2.975	12.5	19.3

341506 2007 TG_{408} 1 11.3 103°.30 3°.8/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.41	+ 9 53.0	2.512	3.246	13.2	21.3
12 13	7 48.32	+ 9 27.5	2.424	3.254	10.8	21.2
12 23	7 42.35	+ 9 11.6	2.359	3.262	8.1	21.0
1 2	7 34.95	+ 9 5.9	2.321	3.270	5.4	20.8
1 12	7 26.84	+ 9 10.2	2.311	3.277	3.8	20.7
1 22	7 18.79	+ 9 23.4	2.331	3.285	5.0	20.8
2 1	7 11.61	+ 9 43.7	2.380	3.292	7.6	21.0
2 11	7 5.95	+10 8.6	2.455	3.300	10.3	21.2

118146 4161 $T\text{-}_{3}$ 1 11.3 135°.05 1°.8/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.69	+24 32.0	1.980	2.747	15.3	20.7
12 13	7 55.61	+25 10.5	1.901	2.760	12.1	20.5
12 23	7 47.76	+25 53.6	1.845	2.772	8.3	20.3
1 2	7 37.75	+26 36.6	1.815	2.784	4.2	20.1
1 12	7 26.62	+27 14.4	1.815	2.795	1.9	20.0
1 22	7 15.62	+27 43.2	1.845	2.806	5.3	20.2
2 1	7 5.99	+28 1.4	1.904	2.816	9.2	20.5
2 11	6 58.69	+28 9.7	1.988	2.825	12.6	20.7

257842 2000 KO_{37} 1 11.3 127°.79 1°.8/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.32	+24 40.0	1.907	2.684	15.4	20.9
12 13	7 53.15	+25 11.6	1.823	2.687	12.2	20.7
12 23	7 46.20	+25 47.8	1.761	2.691	8.4	20.5
1 2	7 37.03	+26 24.2	1.725	2.695	4.3	20.2
1 12	7 26.67	+26 56.1	1.717	2.698	1.9	20.1
1 22	7 16.38	+27 19.9	1.739	2.701	5.4	20.3
2 1	7 7.40	+27 33.8	1.788	2.705	9.4	20.5
2 11	7 0.75	+27 38.3	1.863	2.708	13.0	20.8

258845 2002 PH_{84} 1 11.3 94°.69 1°.2/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.67	+16 29.5	1.972	2.727	15.7	21.5
12 13	7 54.44	+16 49.0	1.906	2.756	12.5	21.3
12 23	7 46.71	+17 17.8	1.862	2.784	8.6	21.2
1 2	7 37.12	+17 53.6	1.844	2.811	4.5	21.0
1 12	7 26.68	+18 32.7	1.855	2.838	1.2	20.8
1 22	7 16.52	+19 11.7	1.897	2.864	4.6	21.1
2 1	7 7.69	+19 47.8	1.969	2.889	8.4	21.4
2 11	7 1.03	+20 19.4	2.066	2.914	11.8	21.6

467013 2016 CF_{132} 1 11.3 29°.57 2°.5/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.66	+27 29.3	1.823	2.604	15.8	21.6
12 13	7 53.59	+27 47.9	1.740	2.606	12.6	21.4
12 23	7 46.56	+28 8.0	1.678	2.608	8.8	21.2
1 2	7 37.22	+28 25.0	1.642	2.611	4.7	21.0
1 12	7 26.67	+28 34.7	1.634	2.613	2.6	20.8
1 22	7 16.25	+28 34.2	1.655	2.616	5.8	21.0
2 1	7 7.29	+28 23.2	1.703	2.619	9.9	21.3
2 11	7 0.81	+28 3.5	1.775	2.621	13.5	21.5

7802 Takiguchi 1 11.3 94°.72 1°.3/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.65	+17 34.9	1.725	2.492	17.2	18.3
12 13	7 54.87	+17 36.4	1.655	2.512	13.7	18.1
12 23	7 47.24	+17 47.0	1.606	2.532	9.5	17.9
1 2	7 37.46	+18 4.5	1.583	2.551	4.9	17.6
1 12	7 26.66	+18 25.9	1.588	2.570	1.3	17.4
1 22	7 16.13	+18 48.2	1.621	2.588	5.1	17.7
2 1	7 7.11	+19 9.1	1.683	2.606	9.4	18.0
2 11	7 0.55	+19 27.2	1.770	2.624	13.2	18.3

471625 2012 TB_{25} 1 11.3 261°.03 4°.5/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.45	+ 7 41.3	2.481	3.210	13.5	21.6
12 13	7 47.72	+ 7 14.7	2.381	3.204	11.2	21.4
12 23	7 42.05	+ 6 58.9	2.302	3.198	8.6	21.2
1 2	7 34.87	+ 6 55.2	2.250	3.192	6.0	21.1
1 12	7 26.86	+ 7 3.7	2.225	3.186	4.5	20.9
1 22	7 18.81	+ 7 23.3	2.230	3.180	5.6	21.0
2 1	7 11.55	+ 7 52.0	2.264	3.173	8.1	21.1
2 11	7 5.80	+ 8 27.0	2.323	3.167	10.8	21.3

196972 2003 UO_{62} 1 11.3 93°.06 3°.5/ 9.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.15	+29 5.8	2.142	2.917	14.0	20.0
12 13	7 52.08	+30 1.0	2.059	2.921	11.1	19.8
12 23	7 45.39	+30 58.3	1.998	2.924	7.9	19.6
1 2	7 36.62	+31 52.2	1.963	2.927	4.7	19.4
1 12	7 26.71	+32 37.3	1.958	2.930	3.6	19.3
1 22	7 16.82	+33 9.5	1.982	2.933	6.0	19.5
2 1	7 8.11	+33 27.4	2.034	2.936	9.3	19.7
2 11	7 1.54	+33 31.9	2.111	2.939	12.4	19.9

402991 2007 VJ_{151} 1 11.3 35°.94 1°.6/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.86	+22 13.1	1.472	2.267	18.4	20.1
12 13	7 52.75	+22 58.5	1.399	2.274	14.5	19.8
12 23	7 46.33	+23 53.3	1.346	2.281	10.0	19.6
1 2	7 37.22	+24 52.2	1.316	2.288	5.0	19.3
1 12	7 26.67	+25 48.3	1.314	2.296	1.8	19.1
1 22	7 16.22	+26 35.7	1.339	2.304	6.2	19.4
2 1	7 7.42	+27 11.0	1.390	2.313	11.0	19.7
2 11	7 1.46	+27 33.7	1.464	2.322	15.2	20.0

242439 2004 PO_{40} 1 11.3 109°.73 2°.3/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.34	+14 10.7	1.828	2.581	16.8	21.3
12 13	7 55.21	+14 17.3	1.757	2.603	13.5	21.1
12 23	7 47.38	+14 35.5	1.707	2.625	9.5	20.9
1 2	7 37.51	+15 3.7	1.683	2.647	5.3	20.7
1 12	7 26.66	+15 38.9	1.687	2.667	2.3	20.5
1 22	7 16.06	+16 17.6	1.722	2.687	5.1	20.8
2 1	7 6.87	+16 56.5	1.785	2.706	9.1	21.0
2 11	6 59.99	+17 33.1	1.874	2.724	12.7	21.3

458204 2010 RG_{53} 1 11.3 61°.99 10°.0/10.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 13.48	+46 30.6	1.626	2.381	18.6	20.8
12 13	8 6.91	+47 23.4	1.578	2.406	15.7	20.7
12 23	7 55.95	+48 1.4	1.548	2.431	12.8	20.5
1 2	7 41.75	+48 13.8	1.542	2.457	10.6	20.5
1 12	7 26.35	+47 53.3	1.561	2.482	10.0	20.5
1 22	7 12.00	+46 59.7	1.605	2.507	11.3	20.6
2 1	7 0.56	+45 39.0	1.675	2.532	13.5	20.8
2 11	6 53.08	+44 1.2	1.767	2.558	16.0	21.0

488322 2016 UZ_{106} 1 11.3 102°.99 14°.1/ 4.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 11.37	+40 38.5	1.158	1.952	22.4	20.4
12 13	8 8.15	+44 7.4	1.108	1.963	19.0	20.3
12 23	7 59.07	+47 34.0	1.079	1.975	15.9	20.1
1 2	7 44.39	+50 35.1	1.072	1.986	14.2	20.0
1 12	7 26.07	+52 48.2	1.089	1.998	14.7	20.1
1 22	7 7.42	+54 2.0	1.129	2.008	16.9	20.3
2 1	6 52.08	+54 19.5	1.189	2.019	19.8	20.5
2 11	6 42.50	+53 54.6	1.266	2.029	22.5	20.7

492286 2013 YZ_{21} 1 11.3 85°.54 2°.9/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 53.94	+13 48.6	2.300	3.050	13.9	21.3
12 13	7 49.73	+13 20.9	2.213	3.056	11.2	21.1
12 23	7 43.43	+13 0.8	2.147	3.062	8.1	21.0
1 2	7 35.53	+12 48.7	2.109	3.068	4.9	20.8
1 12	7 26.82	+12 44.1	2.099	3.074	2.9	20.6
1 22	7 18.20	+12 46.0	2.119	3.080	4.8	20.8
2 1	7 10.56	+12 53.0	2.167	3.085	7.9	21.0
2 11	7 4.65	+13 3.5	2.242	3.091	11.0	21.2

64987 2002 AZ_{50} 1 11.3 169°.48 0°.9/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.00	+16 58.3	2.248	3.005	14.0	19.9
12 13	7 50.79	+17 19.9	2.155	3.007	11.1	19.8
12 23	7 44.31	+17 50.3	2.086	3.009	7.8	19.5
1 2	7 36.04	+18 27.4	2.043	3.011	4.0	19.3
1 12	7 26.79	+19 8.4	2.029	3.012	0.9	19.1
1 22	7 17.54	+19 49.8	2.046	3.013	4.3	19.3
2 1	7 9.26	+20 29.0	2.093	3.014	8.0	19.6
2 11	7 2.80	+21 3.9	2.166	3.014	11.3	19.8

451445 2011 SV_{134} 1 11.3 59°.16 5°.2/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.48	+31 25.8	1.438	2.232	18.8	20.8
12 13	7 57.42	+32 15.4	1.375	2.246	15.0	20.6
12 23	7 49.59	+33 4.6	1.333	2.261	10.8	20.4
1 2	7 38.80	+33 45.1	1.314	2.276	6.7	20.2
1 12	7 26.58	+34 9.2	1.321	2.291	5.3	20.1
1 22	7 14.76	+34 13.0	1.355	2.307	8.1	20.3
2 1	7 5.04	+33 57.4	1.415	2.322	12.1	20.6
2 11	6 58.61	+33 26.9	1.496	2.338	15.8	20.9

456358 2006 TV_{88} 1 11.3 6°.16 4°.3/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.86	+12 51.0	1.643	2.413	17.8	21.0
12 13	7 51.41	+12 11.3	1.559	2.413	14.5	20.8
12 23	7 45.10	+11 42.4	1.495	2.413	10.7	20.6
1 2	7 36.53	+11 25.5	1.455	2.414	6.7	20.3
1 12	7 26.76	+11 20.8	1.441	2.415	4.3	20.2
1 22	7 17.04	+11 27.1	1.455	2.416	6.4	20.3
2 1	7 8.68	+11 42.1	1.495	2.418	10.4	20.6
2 11	7 2.69	+12 3.0	1.559	2.420	14.3	20.8

457130 2008 FB_{65} 1 11.3 303°.67 9°.3/13.8 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.78	+ 0 47.5	1.735	2.463	18.5	22.1
12 13	7 49.04	− 0 15.9	1.632	2.443	16.1	21.9
12 23	7 43.62	− 1 1.9	1.548	2.422	13.4	21.6
1 2	7 35.91	− 1 25.3	1.485	2.402	10.8	21.4
1 12	7 26.80	− 1 22.2	1.447	2.383	9.4	21.3
1 22	7 17.43	− 0 52.2	1.434	2.363	10.1	21.3
2 1	7 9.07	+ 0 1.8	1.446	2.344	12.6	21.4
2 11	7 2.84	+ 1 13.5	1.480	2.325	15.8	21.5

462004 2006 WE_{167} 1 11.3 19°.98 2°.6/11.9 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.44	+16 46.8	1.241	2.046	20.6	21.0
12 13	7 50.25	+16 24.9	1.179	2.056	16.5	20.8
12 23	7 44.64	+16 14.7	1.134	2.068	11.6	20.6
1 2	7 36.36	+16 15.7	1.112	2.081	6.3	20.3
1 12	7 26.78	+16 25.6	1.114	2.095	2.6	20.1
1 22	7 17.52	+16 41.5	1.141	2.110	6.3	20.4
2 1	7 10.08	+17 0.1	1.193	2.127	11.3	20.7
2 11	7 5.57	+17 18.9	1.267	2.145	15.7	21.0

50161 2000 AM_{144} 1 11.3 8°.44 0°.9/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.88	+23 58.4	1.109	1.928	21.6	17.5
12 13	7 53.77	+23 51.1	1.041	1.929	17.3	17.2
12 23	7 47.55	+23 48.7	0.990	1.930	12.0	16.9
1 2	7 37.98	+23 47.6	0.960	1.933	6.0	16.6
1 12	7 26.66	+23 43.2	0.954	1.937	1.1	16.3
1 22	7 15.60	+23 32.8	0.972	1.942	7.0	16.7
2 1	7 6.75	+23 16.0	1.014	1.947	12.8	17.0
2 11	7 1.47	+22 54.5	1.076	1.954	17.8	17.3

456788 2007 TA_{195} 1 11.3 21°.53 1°.4/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.98	+18 22.1	1.262	2.066	20.3	21.3
12 13	7 51.55	+18 16.2	1.194	2.073	16.3	21.0
12 23	7 45.61	+18 21.3	1.146	2.081	11.3	20.8
1 2	7 36.89	+18 35.4	1.119	2.090	5.8	20.5
1 12	7 26.75	+18 55.2	1.117	2.100	1.4	20.2
1 22	7 16.85	+19 16.7	1.141	2.111	6.2	20.6
2 1	7 8.79	+19 37.0	1.189	2.123	11.4	20.9
2 11	7 3.74	+19 54.0	1.260	2.135	16.0	21.2

323995 2005 UB_{235} 1 11.3 57°.09 5°.5/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.74	+ 7 42.7	1.870	2.615	16.8	20.4
12 13	7 50.08	+ 7 8.3	1.788	2.621	13.9	20.2
12 23	7 43.95	+ 6 48.0	1.726	2.627	10.6	20.1
1 2	7 35.89	+ 6 43.5	1.688	2.633	7.4	19.9
1 12	7 26.83	+ 6 55.1	1.677	2.640	5.5	19.8
1 22	7 17.85	+ 7 21.1	1.694	2.646	6.7	19.9
2 1	7 10.02	+ 7 58.3	1.738	2.653	9.8	20.1
2 11	7 4.24	+ 8 42.4	1.807	2.660	13.0	20.3

462852 2010 UH_{73} 1 11.3 52°.05 6°.9/ 8.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 1.48	+32 57.5	1.500	2.291	18.3	20.6
12 13	7 57.38	+34 44.3	1.451	2.318	14.6	20.5
12 23	7 49.55	+36 30.1	1.424	2.346	10.8	20.3
1 2	7 38.80	+38 3.9	1.421	2.374	7.6	20.2
1 12	7 26.61	+39 15.5	1.445	2.402	7.1	20.2
1 22	7 14.81	+39 59.6	1.496	2.430	9.4	20.4
2 1	7 5.09	+40 16.3	1.573	2.458	12.6	20.7
2 11	6 58.62	+40 10.5	1.671	2.487	15.6	20.9

377121 2003 AB_{24} 1 11.3 2°.95 1°.5/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 48.84	+22 11.7	1.501	2.308	17.5	19.5
12 13	7 47.19	+22 54.4	1.425	2.306	13.9	19.3
12 23	7 42.51	+23 46.2	1.369	2.307	9.5	19.0
1 2	7 35.36	+24 42.8	1.336	2.309	4.8	18.8
1 12	7 26.87	+25 37.8	1.330	2.312	1.7	18.6
1 22	7 18.42	+26 25.7	1.350	2.317	6.0	18.8
2 1	7 11.43	+27 2.7	1.396	2.323	10.6	19.1
2 11	7 7.00	+27 27.8	1.465	2.331	14.7	19.4

246083 2006 XQ_{17} 1 11.3 22°.53 1°.2/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.56	+28 20.1	1.138	1.951	21.6	18.7
12 13	7 56.91	+27 26.7	1.084	1.967	17.1	18.4
12 23	7 49.20	+26 29.4	1.047	1.985	11.8	18.2
1 2	7 38.51	+25 26.2	1.033	2.005	5.9	17.9
1 12	7 26.66	+24 16.7	1.044	2.027	1.3	17.7
1 22	7 15.64	+23 3.3	1.080	2.050	6.6	18.1
2 1	7 7.10	+21 50.6	1.142	2.074	11.9	18.5
2 11	7 2.07	+20 42.4	1.225	2.099	16.4	18.8

495783 2017 FK_{40} 1 11.3 269°.29 0°.4/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.25	+20 20.6	1.570	2.355	17.9	21.4
12 13	7 53.92	+20 46.2	1.474	2.342	14.3	21.1
12 23	7 47.29	+21 22.2	1.398	2.330	10.0	20.8
1 2	7 37.85	+22 5.1	1.346	2.317	5.0	20.5
1 12	7 26.68	+22 49.9	1.321	2.304	0.6	20.1
1 22	7 15.29	+23 31.1	1.323	2.291	6.0	20.5
2 1	7 5.28	+24 5.0	1.353	2.277	11.1	20.7
2 11	6 58.00	+24 30.1	1.405	2.264	15.7	21.0

240184 2002 QE_{76} 1 11.3 34°.48 0°.7/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.43	+21 53.6	1.966	2.736	15.2	20.1
12 13	7 52.91	+21 22.7	1.882	2.742	12.1	19.9
12 23	7 45.82	+20 54.2	1.820	2.748	8.4	19.7
1 2	7 36.78	+20 26.9	1.784	2.754	4.2	19.4
1 12	7 26.79	+20 0.0	1.778	2.761	0.7	19.2
1 22	7 17.00	+19 33.1	1.800	2.767	4.7	19.5
2 1	7 8.53	+19 6.3	1.852	2.775	8.7	19.7
2 11	7 2.23	+18 40.5	1.929	2.782	12.3	20.0

464260 2015 FR_{2} 1 11.3 230°.82 1°.4/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.64	+23 19.4	2.383	3.151	12.9	20.7
12 13	7 49.75	+24 1.3	2.290	3.150	10.2	20.5
12 23	7 43.62	+24 48.5	2.220	3.148	7.0	20.3
1 2	7 35.74	+25 37.5	2.177	3.147	3.6	20.1
1 12	7 26.86	+26 24.2	2.164	3.145	1.5	20.0
1 22	7 17.94	+27 5.0	2.182	3.144	4.5	20.2
2 1	7 9.95	+27 37.6	2.228	3.142	8.0	20.4
2 11	7 3.73	+28 1.4	2.301	3.140	11.1	20.6

75896 2000 CV_{44} 1 11.3 308°.74 2°.4/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.91	+16 25.3	1.588	2.371	17.8	19.6
12 13	7 51.12	+16 8.2	1.487	2.352	14.4	19.3
12 23	7 45.26	+16 0.7	1.406	2.334	10.4	19.0
1 2	7 36.81	+16 2.6	1.349	2.316	5.8	18.7
1 12	7 26.77	+16 12.4	1.318	2.299	2.4	18.5
1 22	7 16.51	+16 27.8	1.314	2.282	6.0	18.7
2 1	7 7.52	+16 46.3	1.336	2.265	10.9	18.9
2 11	7 1.05	+17 5.6	1.382	2.249	15.4	19.1

305588 2008 YM_{64} 1 11.3 285°.25 2°.1/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.49	+17 12.5	1.624	2.402	17.7	21.2
12 13	7 53.12	+16 54.3	1.522	2.384	14.3	20.9
12 23	7 46.62	+16 44.4	1.439	2.366	10.2	20.6
1 2	7 37.48	+16 42.5	1.380	2.348	5.6	20.3
1 12	7 26.72	+16 47.0	1.349	2.330	2.2	20.0
1 22	7 15.73	+16 55.8	1.345	2.312	5.9	20.2
2 1	7 6.02	+17 6.7	1.367	2.294	10.9	20.5
2 11	6 58.86	+17 18.3	1.413	2.276	15.4	20.7

53143 1999 BB_{9} 1 11.3 79°.35 2°.0/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.38	+26 36.6	1.799	2.578	16.1	18.9
12 13	7 54.86	+26 47.0	1.721	2.586	12.8	18.7
12 23	7 47.38	+26 58.8	1.665	2.595	8.9	18.5
1 2	7 37.62	+27 8.2	1.635	2.604	4.6	18.2
1 12	7 26.74	+27 11.0	1.632	2.613	2.0	18.1
1 22	7 16.08	+27 5.2	1.658	2.621	5.6	18.3
2 1	7 6.95	+26 50.6	1.712	2.630	9.7	18.6
2 11	7 0.34	+26 29.0	1.791	2.639	13.3	18.8

85948 1999 EP_{13} 1 11.3 250°.43 3°.5/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 54.96	+ 9 30.2	2.402	3.133	13.9	20.8
12 13	7 50.76	+ 9 30.7	2.284	3.112	11.5	20.6
12 23	7 44.37	+ 9 43.1	2.187	3.091	8.6	20.3
1 2	7 36.17	+10 8.1	2.117	3.069	5.5	20.1
1 12	7 26.85	+10 44.6	2.075	3.046	3.6	19.9
1 22	7 17.30	+11 30.4	2.064	3.023	5.1	20.0
2 1	7 8.48	+12 22.3	2.083	2.999	8.3	20.2
2 11	7 1.27	+13 16.9	2.129	2.975	11.6	20.3

380951 2006 KQ_{83} 1 11.3 112°.58 3°.4/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.72	+ 9 43.3	2.495	3.229	13.3	21.5
12 13	7 48.61	+ 9 39.1	2.410	3.240	10.9	21.3
12 23	7 42.59	+ 9 45.7	2.347	3.251	8.0	21.2
1 2	7 35.13	+10 3.3	2.310	3.262	5.2	21.0
1 12	7 26.95	+10 30.6	2.303	3.273	3.4	20.9
1 22	7 18.83	+11 5.5	2.325	3.283	4.7	21.0
2 1	7 11.57	+11 45.4	2.377	3.293	7.4	21.2
2 11	7 5.86	+12 27.5	2.456	3.303	10.2	21.4

162179 1999 JZ_{127} 1 11.3 163°.83 0°.1/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.50	+19 42.3	2.109	2.867	14.7	21.1
12 13	7 54.49	+20 2.2	2.020	2.873	11.7	20.9
12 23	7 46.94	+20 29.1	1.954	2.879	8.1	20.7
1 2	7 37.39	+21 0.4	1.914	2.884	4.0	20.5
1 12	7 26.77	+21 32.4	1.905	2.888	0.3	20.2
1 22	7 16.19	+22 2.0	1.925	2.891	4.6	20.5
2 1	7 6.77	+22 27.0	1.976	2.894	8.6	20.8
2 11	6 59.44	+22 46.5	2.052	2.896	12.0	21.0

125709 2001 XG_{99} 1 11.3 13°.11 0°.6/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.86	+20 22.9	1.091	1.913	21.7	18.5
12 13	7 50.56	+20 51.7	1.027	1.917	17.3	18.2
12 23	7 45.35	+21 33.5	0.980	1.922	11.9	17.9
1 2	7 36.93	+22 23.6	0.954	1.928	5.9	17.6
1 12	7 26.80	+23 14.9	0.952	1.936	0.9	17.3
1 22	7 16.85	+24 0.5	0.975	1.945	6.9	17.7
2 1	7 8.97	+24 35.8	1.020	1.955	12.6	18.0
2 11	7 4.49	+24 59.5	1.086	1.967	17.5	18.4

213590 2002 OU_{17} 1 11.3 114°.93 2°.6/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.42	+14 39.7	1.958	2.712	15.9	20.6
12 13	7 53.59	+14 22.4	1.880	2.727	12.8	20.4
12 23	7 46.25	+14 14.3	1.824	2.741	9.1	20.2
1 2	7 37.00	+14 14.9	1.793	2.756	5.2	20.0
1 12	7 26.81	+14 22.8	1.791	2.769	2.6	19.9
1 22	7 16.81	+14 36.1	1.819	2.783	5.1	20.0
2 1	7 8.08	+14 52.8	1.876	2.796	8.8	20.3
2 11	7 1.47	+15 11.0	1.958	2.808	12.2	20.5

77527 2001 HO_{57} 1 11.3 125°.56 1°.2/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.64	+14 54.7	2.090	2.841	15.1	19.6
12 13	7 52.95	+15 32.9	2.008	2.855	12.0	19.4
12 23	7 45.84	+16 22.8	1.949	2.869	8.4	19.2
1 2	7 36.83	+17 21.7	1.917	2.883	4.4	19.0
1 12	7 26.83	+18 25.4	1.914	2.896	1.2	18.8
1 22	7 16.88	+19 29.4	1.942	2.909	4.5	19.1
2 1	7 8.07	+20 29.8	2.000	2.921	8.3	19.3
2 11	7 1.24	+21 23.8	2.085	2.932	11.7	19.5

412524 2014 MY_{36} 1 11.3 144°.82 1°.0/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.86	+22 42.1	2.096	2.859	14.7	22.0
12 13	7 54.79	+23 10.6	2.013	2.870	11.6	21.8
12 23	7 47.15	+23 44.3	1.953	2.880	8.0	21.6
1 2	7 37.49	+24 19.5	1.920	2.890	4.0	21.4
1 12	7 26.79	+24 52.1	1.916	2.899	1.1	21.2
1 22	7 16.19	+25 18.7	1.943	2.907	4.8	21.5
2 1	7 6.82	+25 37.6	1.999	2.915	8.6	21.7
2 11	6 59.61	+25 48.8	2.081	2.922	12.0	21.9

281080 2006 RR_{61} 1 11.3 146°.27 5°.3/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.25	+ 0 53.0	3.075	3.759	12.0	21.8
12 13	7 47.06	+ 0 31.6	2.985	3.769	10.2	21.7
12 23	7 41.34	+ 0 22.6	2.916	3.777	8.2	21.6
1 2	7 34.48	+ 0 27.3	2.874	3.786	6.4	21.5
1 12	7 27.03	+ 0 45.9	2.860	3.794	5.3	21.4
1 22	7 19.61	+ 1 17.3	2.875	3.801	5.8	21.5
2 1	7 12.85	+ 1 59.3	2.920	3.808	7.3	21.6
2 11	7 7.30	+ 2 48.7	2.991	3.815	9.2	21.7

460714 2014 VH_{3} 1 11.3 27°.86 0°.6/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.09	+24 36.6	1.602	2.389	17.4	20.5
12 13	7 54.11	+24 19.6	1.526	2.396	13.8	20.3
12 23	7 47.00	+24 4.4	1.471	2.403	9.5	20.1
1 2	7 37.49	+23 48.4	1.440	2.411	4.7	19.8
1 12	7 26.80	+23 29.1	1.436	2.420	0.8	19.5
1 22	7 16.39	+23 5.6	1.461	2.428	5.5	19.9
2 1	7 7.65	+22 38.2	1.512	2.438	10.1	20.2
2 11	7 1.58	+22 8.6	1.588	2.448	14.1	20.4

464134 2014 WF_{503} 1 11.3 72°.43 0°.5/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 56.19	+19 38.2	1.880	2.652	15.8	20.9
12 13	7 52.12	+20 23.5	1.808	2.669	12.4	20.8
12 23	7 45.41	+21 17.9	1.757	2.687	8.5	20.6
1 2	7 36.66	+22 17.3	1.733	2.704	4.2	20.3
1 12	7 26.87	+23 16.5	1.738	2.721	0.6	20.1
1 22	7 17.21	+24 10.8	1.772	2.738	4.9	20.4
2 1	7 8.85	+24 56.9	1.835	2.756	9.0	20.7
2 11	7 2.71	+25 33.4	1.923	2.773	12.5	21.0

272894 2006 BB_{125} 1 11.3 331°.49 2°.0/10.7 18

12 3	7 55.75	+26 5.0	1.915	2.696	15.2	21.2
12 13	7 52.02	+26 23.3	1.825	2.692	12.1	21.0
12 23	7 45.51	+26 44.4	1.757	2.688	8.4	20.8
1 2	7 36.79	+27 4.2	1.714	2.684	4.4	20.5
1 12	7 26.86	+27 18.7	1.700	2.680	2.0	20.3
1 22	7 16.96	+27 25.1	1.714	2.677	5.4	20.6
2 1	7 8.35	+27 22.3	1.756	2.673	9.5	20.8
2 11	7 2.02	+27 11.3	1.822	2.671	13.1	21.0

392213 2009 UQ_{12} 1 11.3 42°.42 2°.9/10.7 17

12 3	8 0.92	+26 53.3	1.233	2.037	20.7	21.7
12 13	7 57.53	+27 13.2	1.163	2.042	16.5	21.5
12 23	7 50.04	+27 36.5	1.111	2.047	11.5	21.2
1 2	7 39.23	+27 56.8	1.082	2.053	6.1	20.9
1 12	7 26.68	+28 7.4	1.078	2.059	3.0	20.7
1 22	7 14.42	+28 4.4	1.100	2.065	7.4	21.0
2 1	7 4.38	+27 47.9	1.146	2.071	12.7	21.3
2 11	6 57.92	+27 21.2	1.214	2.077	17.3	21.6

6613 Williamcarl 1 11.3 182°.71 8°.5/16.0 18

12 3	7 51.04	−10 41.2	3.093	3.708	13.1	18.3
12 13	7 46.99	−11 33.4	3.001	3.708	11.8	18.1
12 23	7 41.36	−12 9.8	2.928	3.708	10.4	18.0
1 2	7 34.53	−12 26.9	2.878	3.708	9.3	18.0
1 12	7 27.05	−12 23.0	2.852	3.707	8.6	17.9
1 22	7 19.55	−11 58.0	2.853	3.706	8.7	17.9
2 1	7 12.68	−11 13.9	2.880	3.704	9.5	18.0
2 11	7 7.01	−10 14.3	2.931	3.702	10.7	18.1

347642 2001 TR_9 1 11.3 62°.09 4°.7/12.6 18

12 3	7 56.98	+11 24.9	1.405	2.179	20.1	20.4
12 13	7 53.45	+10 55.4	1.335	2.190	16.4	20.2
12 23	7 46.70	+10 41.3	1.283	2.201	12.1	20.0
1 2	7 37.41	+10 43.5	1.254	2.213	7.6	19.8
1 12	7 26.84	+11 1.3	1.250	2.224	4.8	19.6
1 22	7 16.47	+11 31.4	1.273	2.236	7.0	19.8
2 1	7 7.76	+12 9.9	1.322	2.247	11.2	20.1
2 11	7 1.79	+12 52.0	1.394	2.259	15.3	20.3

320828 2008 FY_{40} 1 11.3 190°.93 1°.3/11.8 18

12 3	7 55.86	+16 43.1	2.307	3.059	13.8	22.1
12 13	7 51.44	+16 51.9	2.210	3.058	11.0	21.9
12 23	7 44.77	+17 8.6	2.135	3.057	7.7	21.7
1 2	7 36.33	+17 31.9	2.088	3.055	4.1	21.5
1 12	7 26.92	+17 59.3	2.070	3.052	1.3	21.3
1 22	7 17.48	+18 28.4	2.083	3.049	4.3	21.5
2 1	7 8.99	+18 56.7	2.125	3.046	7.9	21.7
2 11	7 2.29	+19 22.7	2.194	3.042	11.2	21.9

502417 2015 BO_{255} 1 11.3 311°.33 1°.0/11.0 18

12 3	7 55.61	+24 42.2	2.217	2.987	13.7	21.0
12 13	7 51.41	+24 44.5	2.124	2.985	10.9	20.8
12 23	7 44.81	+24 49.0	2.053	2.982	7.5	20.6
1 2	7 36.36	+24 53.0	2.009	2.979	3.8	20.3
1 12	7 26.92	+24 53.8	1.994	2.976	1.1	20.1
1 22	7 17.54	+24 49.7	2.009	2.974	4.5	20.4
2 1	7 9.25	+24 40.2	2.053	2.971	8.3	20.6
2 11	7 2.93	+24 25.8	2.122	2.969	11.6	20.8

250175 2002 TW_{211} 1 11.3 86°.71 6°.0/ 8.9 18

12 3	8 2.99	+33 37.0	1.786	2.561	16.4	20.1
12 13	7 58.07	+35 2.2	1.725	2.583	13.2	19.9
12 23	7 49.82	+36 26.1	1.687	2.604	9.7	19.7
1 2	7 38.94	+37 39.7	1.674	2.626	6.8	19.6
1 12	7 26.73	+38 35.0	1.690	2.647	6.2	19.6
1 22	7 14.77	+39 7.2	1.734	2.667	8.3	19.8
2 1	7 4.58	+39 16.5	1.804	2.688	11.3	20.0
2 11	6 57.28	+39 6.6	1.897	2.708	14.3	20.3

78712 2002 TC_{192} 1 11.3 69°.63 0°.9/11.1 18

12 3	7 58.01	+25 8.3	2.168	2.935	14.1	19.1
12 13	7 53.09	+25 1.8	2.093	2.952	11.1	18.9
12 23	7 45.80	+24 56.5	2.041	2.969	7.6	18.8
1 2	7 36.75	+24 49.9	2.016	2.986	3.8	18.6
1 12	7 26.91	+24 39.9	2.020	3.003	1.0	18.4
1 22	7 17.33	+24 25.2	2.055	3.020	4.4	18.7
2 1	7 9.03	+24 6.2	2.118	3.037	8.1	18.9
2 11	7 2.77	+23 43.7	2.208	3.053	11.2	19.1

169564 2002 EO_{155} 1 11.3 240°.39 1°.5/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.23	+23 44.9	1.946	2.716	15.4	21.6
12 13	7 54.89	+24 15.3	1.842	2.703	12.3	21.3
12 23	7 47.65	+24 51.6	1.760	2.688	8.6	21.1
1 2	7 37.96	+25 30.0	1.704	2.674	4.4	20.8
1 12	7 26.81	+26 5.3	1.677	2.658	1.6	20.6
1 22	7 15.44	+26 33.5	1.679	2.642	5.5	20.8
2 1	7 5.24	+26 52.2	1.710	2.626	9.8	21.0
2 11	6 57.36	+27 1.3	1.766	2.609	13.7	21.2

413065 2001 SX_{96} 1 11.3 91°.23 2°.0/11.9 18

12 3	7 58.18	+15 43.6	1.966	2.722	15.7	22.1
12 13	7 53.34	+15 40.0	1.896	2.745	12.5	21.9
12 23	7 46.04	+15 45.4	1.848	2.768	8.8	21.7
1 2	7 36.90	+15 58.6	1.825	2.790	4.8	21.5
1 12	7 26.91	+16 17.3	1.832	2.812	2.0	21.4
1 22	7 17.16	+16 39.1	1.868	2.833	4.7	21.6
2 1	7 8.71	+17 1.6	1.933	2.854	8.5	21.9
2 11	7 2.38	+17 23.2	2.024	2.875	11.9	22.1

148642 2001 SO_{45} 1 11.3 41°.28 7°.2/14.5 18

12 3	7 52.72	+ 2 48.3	1.567	2.311	19.6	19.8
12 13	7 49.69	+ 2 30.5	1.499	2.325	16.5	19.6
12 23	7 43.90	+ 2 35.0	1.448	2.340	12.9	19.4
1 2	7 35.97	+ 3 4.4	1.420	2.356	9.5	19.2
1 12	7 26.97	+ 3 57.6	1.417	2.372	7.3	19.2
1 22	7 18.13	+ 5 10.4	1.440	2.388	8.1	19.2
2 1	7 10.67	+ 6 36.2	1.489	2.405	11.0	19.5
2 11	7 5.52	+ 8 7.3	1.562	2.423	14.3	19.7

133123 2003 PO_1 1 11.3 215°.10 0°.2/11.3 18

12 3	8 0.41	+21 46.1	2.073	2.833	14.9	20.9
12 13	7 55.45	+21 51.0	1.971	2.825	11.9	20.6
12 23	7 47.79	+22 0.6	1.891	2.816	8.3	20.4
1 2	7 37.93	+22 12.3	1.837	2.807	4.1	20.1
1 12	7 26.82	+22 23.3	1.813	2.797	0.4	19.8
1 22	7 15.64	+22 30.9	1.820	2.786	4.8	20.1
2 1	7 5.60	+22 33.9	1.856	2.774	9.0	20.4
2 11	6 57.74	+22 32.4	1.917	2.761	12.7	20.6

13410 Arhale 1 11.3 144°.13 1°.5/11.7 18

12 3	8 2.82	+17 42.7	1.807	2.565	16.9	18.5
12 13	7 57.39	+17 34.6	1.726	2.577	13.5	18.3
12 23	7 49.07	+17 34.4	1.667	2.589	9.4	18.1
1 2	7 38.50	+17 40.4	1.633	2.600	5.0	17.9
1 12	7 26.80	+17 50.2	1.628	2.610	1.5	17.6
1 22	7 15.29	+18 1.6	1.653	2.619	5.2	17.9
2 1	7 5.23	+18 12.7	1.707	2.628	9.5	18.2
2 11	6 57.64	+18 22.5	1.786	2.635	13.3	18.4

234989 2003 BA_6 1 11.3 341°.56 0°.4/11.4 18

12 3	7 52.13	+19 54.3	1.142	1.959	21.2	20.5
12 13	7 50.86	+19 58.2	1.062	1.949	17.1	20.2
12 23	7 45.73	+20 13.4	0.999	1.939	12.0	19.9
1 2	7 37.28	+20 37.6	0.958	1.930	6.1	19.5
1 12	7 26.88	+21 6.0	0.940	1.923	0.6	19.1
1 22	7 16.38	+21 33.6	0.946	1.917	6.8	19.5
2 1	7 7.73	+21 56.5	0.976	1.912	12.9	19.8
2 11	7 2.48	+22 12.9	1.025	1.908	18.1	20.1

488653 2003 SS_{182} 1 11.3 60°.82 1°.1/11.1 18

12 3	8 0.40	+24 42.5	1.522	2.310	18.2	20.7
12 13	7 56.10	+24 40.0	1.451	2.321	14.4	20.5
12 23	7 48.48	+24 40.4	1.401	2.333	10.0	20.2
1 2	7 38.28	+24 40.2	1.374	2.345	5.0	20.0
1 12	7 26.86	+24 35.6	1.375	2.357	1.2	19.7
1 22	7 15.76	+24 24.6	1.403	2.370	5.8	20.1
2 1	7 6.47	+24 7.4	1.458	2.382	10.5	20.4
2 11	7 0.05	+23 45.4	1.537	2.395	14.6	20.6

485379 2011 FO_{56} 1 11.3 247°.90 2°.1/11.8 17

12 3	8 0.77	+16 44.8	1.736	2.499	17.2	22.7
12 13	7 56.41	+16 30.5	1.627	2.481	14.0	22.4
12 23	7 48.90	+16 24.8	1.539	2.461	10.1	22.1
1 2	7 38.70	+16 27.0	1.475	2.441	5.5	21.8
1 12	7 26.81	+16 35.4	1.439	2.419	2.1	21.6
1 22	7 14.61	+16 47.6	1.431	2.397	5.8	21.7
2 1	7 3.61	+17 1.5	1.452	2.375	10.7	22.0
2 11	6 55.10	+17 15.5	1.498	2.351	15.2	22.2

429259 2010 BA_{78} 1 11.3 227°.04 4°.1/ 9.5 17

12 3	7 57.63	+35 31.4	2.873	3.628	11.3	22.1
12 13	7 52.71	+36 7.0	2.774	3.619	9.1	21.9
12 23	7 45.60	+36 39.5	2.699	3.610	6.8	21.8
1 2	7 36.75	+37 4.8	2.652	3.601	4.8	21.6
1 12	7 26.97	+37 18.9	2.634	3.591	4.2	21.6
1 22	7 17.18	+37 19.7	2.647	3.581	5.7	21.6
2 1	7 8.34	+37 7.0	2.688	3.571	8.1	21.8
2 11	7 1.25	+36 42.5	2.755	3.560	10.5	21.9

272148 2005 NP_{27} 1 11.3 166°.88 3°.5/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 1.13	+12 16.7	1.994	2.733	16.1	21.5
12 13	7 55.82	+11 55.6	1.904	2.740	13.1	21.3
12 23	7 47.90	+11 44.8	1.836	2.745	9.6	21.0
1 2	7 37.94	+11 44.7	1.793	2.750	5.9	20.8
1 12	7 26.89	+11 54.3	1.780	2.754	3.5	20.7
1 22	7 15.90	+12 11.9	1.797	2.757	5.6	20.8
2 1	7 6.12	+12 35.1	1.843	2.759	9.2	21.0
2 11	6 58.47	+13 1.4	1.915	2.759	12.7	21.3

409608 2005 UP_{483} 1 11.3 73°.50 7°.2/ 8.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.97	+37 43.5	1.829	2.603	16.1	20.7
12 13	7 57.45	+39 5.8	1.766	2.618	13.2	20.5
12 23	7 49.52	+40 23.7	1.725	2.633	10.2	20.3
1 2	7 38.87	+41 28.0	1.708	2.648	7.8	20.2
1 12	7 26.83	+42 10.9	1.719	2.663	7.4	20.2
1 22	7 15.00	+42 28.3	1.757	2.678	9.2	20.4
2 1	7 4.97	+42 21.1	1.821	2.693	11.9	20.6
2 11	6 57.88	+41 53.8	1.907	2.708	14.6	20.8

142840 2002 VV_{16} 1 11.3 348°.86 0°.1/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.77	+22 13.0	1.534	2.326	17.9	19.7
12 13	7 52.63	+22 8.2	1.450	2.322	14.3	19.4
12 23	7 46.27	+22 8.8	1.385	2.319	9.9	19.2
1 2	7 37.32	+22 12.1	1.344	2.316	4.9	18.9
1 12	7 26.94	+22 15.0	1.330	2.314	0.4	18.5
1 22	7 16.63	+22 14.9	1.343	2.312	5.7	18.9
2 1	7 7.86	+22 10.6	1.383	2.311	10.6	19.2
2 11	7 1.81	+22 2.5	1.445	2.310	14.9	19.4

377530 2005 GD_{115} 1 11.3 212°.27 4°.1/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.38	+ 9 17.3	2.377	3.114	13.8	21.1
12 13	7 48.56	+ 8 51.5	2.283	3.113	11.4	21.0
12 23	7 42.72	+ 8 36.0	2.211	3.113	8.6	20.8
1 2	7 35.32	+ 8 31.9	2.164	3.112	5.8	20.6
1 12	7 27.10	+ 8 39.0	2.146	3.112	4.1	20.5
1 22	7 18.87	+ 8 56.2	2.157	3.111	5.4	20.6
2 1	7 11.51	+ 9 21.4	2.197	3.110	8.1	20.7
2 11	7 5.75	+ 9 51.9	2.263	3.110	11.0	20.9

115582 2003 UT_{92} 1 11.3 58°.48 4°.8/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.44	+ 8 56.4	2.059	2.801	15.5	19.8
12 13	7 49.62	+ 8 22.3	1.977	2.811	12.8	19.6
12 23	7 43.54	+ 8 0.2	1.917	2.820	9.6	19.4
1 2	7 35.74	+ 7 51.4	1.882	2.829	6.6	19.2
1 12	7 27.07	+ 7 56.0	1.874	2.839	4.8	19.1
1 22	7 18.50	+ 8 12.5	1.895	2.848	6.0	19.2
2 1	7 11.00	+ 8 38.6	1.944	2.858	8.9	19.4
2 11	7 5.35	+ 9 10.9	2.018	2.868	12.0	19.6

144203 2004 CD_{7} 1 11.3 69°.48 5°.0/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.42	+ 5 55.8	1.729	2.473	18.0	19.9
12 13	7 50.93	+ 6 8.6	1.648	2.480	14.9	19.7
12 23	7 44.77	+ 6 41.8	1.585	2.488	11.3	19.5
1 2	7 36.47	+ 7 35.7	1.546	2.495	7.6	19.3
1 12	7 27.02	+ 8 47.9	1.535	2.502	5.1	19.1
1 22	7 17.58	+10 13.3	1.551	2.510	6.4	19.2
2 1	7 9.36	+11 45.3	1.595	2.517	9.9	19.5
2 11	7 3.35	+13 17.3	1.665	2.525	13.6	19.7

165567 2001 DU_{82} 1 11.3 17°.17 2°.2/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.84	+25 0.3	1.126	1.948	21.2	20.0
12 13	7 52.06	+25 19.0	1.065	1.955	16.8	19.8
12 23	7 46.33	+25 43.4	1.022	1.963	11.6	19.5
1 2	7 37.43	+26 7.8	1.001	1.973	5.9	19.2
1 12	7 26.95	+26 26.2	1.003	1.985	2.3	19.1
1 22	7 16.82	+26 34.1	1.030	1.998	7.1	19.4
2 1	7 8.86	+26 30.5	1.080	2.012	12.5	19.7
2 11	7 4.31	+26 17.2	1.152	2.027	17.1	20.0

461096 2015 BH_{62} 1 11.3 218°.36 1°.1/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.30	+23 29.2	2.548	3.311	12.3	21.8
12 13	7 50.15	+24 0.2	2.450	3.307	9.8	21.6
12 23	7 43.88	+24 35.4	2.375	3.302	6.7	21.4
1 2	7 35.94	+25 11.9	2.327	3.297	3.4	21.2
1 12	7 27.06	+25 46.3	2.310	3.292	1.2	21.0
1 22	7 18.13	+26 15.7	2.323	3.286	4.2	21.2
2 1	7 10.06	+26 38.3	2.366	3.280	7.6	21.4
2 11	7 3.65	+26 53.6	2.435	3.274	10.6	21.6

460198 2014 QY_{139} 1 11.3 49°.63 6°.7/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.42	+ 3 3.6	1.700	2.436	18.5	21.8
12 13	7 50.17	+ 2 54.3	1.619	2.442	15.6	21.6
12 23	7 44.26	+ 3 6.2	1.557	2.448	12.3	21.4
1 2	7 36.22	+ 3 41.6	1.518	2.454	8.9	21.3
1 12	7 27.05	+ 4 39.7	1.504	2.461	6.8	21.1
1 22	7 17.90	+ 5 56.3	1.518	2.468	7.6	21.2
2 1	7 9.97	+ 7 25.1	1.558	2.475	10.6	21.4
2 11	7 4.24	+ 8 59.0	1.624	2.482	13.9	21.6

295058 2008 EU_{116} 1 11.3 332°.39 1°.1/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 54.81	+22 26.7	1.619	2.409	17.2	21.1
12 13	7 51.83	+22 51.8	1.530	2.403	13.7	20.8
12 23	7 45.74	+23 24.3	1.463	2.396	9.5	20.5
1 2	7 37.09	+24 0.7	1.419	2.391	4.7	20.3
1 12	7 26.98	+24 35.7	1.403	2.385	1.2	20.0
1 22	7 16.82	+25 5.0	1.414	2.380	5.8	20.3
2 1	7 8.05	+25 25.9	1.451	2.376	10.5	20.6
2 11	7 1.88	+25 37.8	1.512	2.372	14.7	20.8

381263 2007 TZ_{178} 1 11.3 124°.93 0°.5/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.72	+22 4.9	2.655	3.412	12.0	22.0
12 13	7 50.20	+22 24.2	2.570	3.424	9.5	21.8
12 23	7 43.72	+22 47.5	2.509	3.435	6.5	21.7
1 2	7 35.78	+23 12.2	2.476	3.446	3.2	21.5
1 12	7 27.10	+23 35.9	2.473	3.456	0.6	21.3
1 22	7 18.49	+23 56.2	2.502	3.467	3.8	21.5
2 1	7 10.78	+24 11.9	2.560	3.476	6.9	21.8
2 11	7 4.66	+24 22.6	2.645	3.486	9.8	22.0

207669 2007 PF_{20} 1 11.3 79°.01 0°.5/11.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.01	+19 9.5	1.580	2.357	18.1	20.7
12 13	7 55.49	+19 22.8	1.515	2.378	14.3	20.5
12 23	7 47.90	+19 45.1	1.471	2.400	9.9	20.3
1 2	7 37.97	+20 13.2	1.452	2.421	4.9	20.0
1 12	7 26.94	+20 43.0	1.460	2.443	0.6	19.8
1 22	7 16.23	+21 10.6	1.496	2.464	5.3	20.2
2 1	7 7.20	+21 33.7	1.560	2.485	9.9	20.5
2 11	7 0.82	+21 51.2	1.648	2.505	13.8	20.8

4539 Miyagino 1 11.3 93°.80 1°.9/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.81	+17 9.1	1.911	2.676	15.8	17.4
12 13	7 52.55	+16 52.9	1.829	2.683	12.7	17.2
12 23	7 45.71	+16 44.1	1.767	2.690	8.9	17.0
1 2	7 36.87	+16 42.0	1.731	2.698	4.8	16.8
1 12	7 27.02	+16 44.9	1.724	2.705	1.9	16.6
1 22	7 17.30	+16 51.0	1.746	2.712	4.9	16.8
2 1	7 8.82	+16 58.9	1.796	2.719	8.9	17.0
2 11	7 2.51	+17 7.3	1.871	2.726	12.5	17.3

107870 2001 FY_{86} 1 11.3 114°.99 0°.6/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.23	+17 55.9	2.154	2.906	14.6	20.1
12 13	7 54.07	+18 20.3	2.079	2.928	11.6	19.9
12 23	7 46.53	+18 52.6	2.027	2.949	8.0	19.7
1 2	7 37.21	+19 30.3	2.002	2.970	4.0	19.5
1 12	7 27.00	+20 9.8	2.007	2.990	0.6	19.3
1 22	7 16.96	+20 47.8	2.042	3.009	4.3	19.6
2 1	7 8.11	+21 21.8	2.108	3.027	8.1	19.9
2 11	7 1.27	+21 50.6	2.200	3.045	11.3	20.1

306526 1999 XD_{111} 1 11.3 88°.48 1°.5/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.72	+23 42.3	1.732	2.508	16.8	20.5
12 13	7 55.92	+24 14.1	1.666	2.529	13.2	20.3
12 23	7 48.13	+24 51.1	1.620	2.550	9.1	20.1
1 2	7 38.08	+25 28.5	1.601	2.571	4.5	19.9
1 12	7 26.94	+26 1.2	1.610	2.592	1.6	19.7
1 22	7 16.09	+26 25.5	1.648	2.612	5.5	20.0
2 1	7 6.84	+26 39.9	1.714	2.632	9.7	20.3
2 11	7 0.16	+26 45.2	1.804	2.651	13.3	20.6

124244 2001 PD_{62} 1 11.3 29°.06 3°.3/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.03	+13 45.0	1.274	2.066	20.8	19.1
12 13	7 52.40	+13 37.5	1.203	2.071	16.9	18.9
12 23	7 46.30	+13 46.0	1.149	2.077	12.1	18.6
1 2	7 37.39	+14 10.2	1.118	2.084	7.0	18.4
1 12	7 26.98	+14 47.1	1.112	2.091	3.3	18.2
1 22	7 16.70	+15 32.1	1.131	2.099	6.6	18.4
2 1	7 8.17	+16 19.9	1.175	2.107	11.6	18.7
2 11	7 2.61	+17 6.2	1.241	2.116	16.2	19.0

489139 2006 DH_{135} 1 11.3 246°.61 1°.0/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.13	+22 50.4	1.780	2.556	16.4	22.4
12 13	7 55.06	+23 9.8	1.680	2.544	13.1	22.1
12 23	7 47.91	+23 35.4	1.601	2.531	9.1	21.9
1 2	7 38.18	+24 3.7	1.548	2.518	4.6	21.6
1 12	7 26.92	+24 30.1	1.522	2.505	1.1	21.3
1 22	7 15.48	+24 50.6	1.526	2.491	5.6	21.6
2 1	7 5.34	+25 3.1	1.557	2.477	10.3	21.8
2 11	6 57.71	+25 7.7	1.613	2.463	14.4	22.0

149962 2005 TQ_{95} 1 11.3 226°.81 6°.4/ 8.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.72	+38 41.8	2.263	3.020	13.9	19.9
12 13	7 57.65	+39 42.3	2.170	3.011	11.5	19.7
12 23	7 49.54	+40 39.0	2.099	3.002	8.9	19.5
1 2	7 38.92	+41 24.4	2.054	2.992	6.9	19.4
1 12	7 26.88	+41 52.0	2.038	2.981	6.5	19.3
1 22	7 14.76	+41 58.1	2.050	2.970	8.1	19.4
2 1	7 4.00	+41 42.6	2.090	2.958	10.7	19.5
2 11	6 55.73	+41 9.1	2.153	2.947	13.4	19.7

322879 2001 WG_{42} 1 11.3 104°.77 4°.2/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 55.66	+10 41.4	1.969	2.716	16.0	20.9
12 13	7 51.50	+10 14.1	1.886	2.725	13.1	20.7
12 23	7 44.92	+ 9 58.3	1.825	2.733	9.7	20.5
1 2	7 36.47	+ 9 55.0	1.789	2.742	6.2	20.3
1 12	7 27.07	+10 3.6	1.780	2.750	4.2	20.2
1 22	7 17.76	+10 22.4	1.800	2.758	5.8	20.3
2 1	7 9.60	+10 49.0	1.849	2.766	9.1	20.6
2 11	7 3.44	+11 20.1	1.922	2.774	12.4	20.8

402563 2006 QW_{61} 1 11.3 134°.46 4°.4/10.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.83	+33 51.8	2.037	2.800	15.0	21.8
12 13	7 59.01	+34 18.2	1.959	2.811	12.1	21.6
12 23	7 50.20	+34 41.0	1.904	2.821	8.8	21.4
1 2	7 39.09	+34 54.3	1.875	2.831	5.7	21.3
1 12	7 26.89	+34 53.2	1.874	2.841	4.5	21.2
1 22	7 14.97	+34 35.7	1.903	2.850	6.6	21.4
2 1	7 4.67	+34 3.2	1.961	2.858	9.9	21.6
2 11	6 56.96	+33 19.5	2.044	2.866	12.9	21.8

424284 2007 TO_{131} 1 11.3 87°.50 0°.8/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.32	+23 4.6	2.416	3.180	12.9	21.8
12 13	7 50.84	+23 24.4	2.340	3.197	10.2	21.6
12 23	7 44.23	+23 47.8	2.287	3.214	6.9	21.4
1 2	7 36.05	+24 12.0	2.262	3.231	3.4	21.3
1 12	7 27.10	+24 34.0	2.266	3.248	0.9	21.1
1 22	7 18.30	+24 51.6	2.301	3.265	4.1	21.3
2 1	7 10.54	+25 3.6	2.365	3.282	7.4	21.6
2 11	7 4.55	+25 9.8	2.456	3.298	10.4	21.8

71362 2000 AB_{133} 1 11.3 0°.82 5°.4/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.25	+36 51.9	1.865	2.638	15.9	18.6
12 13	7 57.42	+37 3.3	1.782	2.637	12.9	18.4
12 23	7 49.33	+37 7.8	1.720	2.636	9.6	18.2
1 2	7 38.73	+36 59.2	1.683	2.636	6.6	18.0
1 12	7 26.91	+36 32.8	1.674	2.637	5.5	18.0
1 22	7 15.40	+35 47.4	1.693	2.638	7.5	18.1
2 1	7 5.65	+34 45.5	1.739	2.639	10.7	18.3
2 11	6 58.71	+33 32.5	1.809	2.641	14.0	18.5

453591 2010 KL_{21} 1 11.3 242°.11 4°.8/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.68	+32 45.9	1.786	2.558	16.5	21.3
12 13	7 59.77	+33 17.7	1.688	2.545	13.4	21.0
12 23	7 51.33	+33 48.1	1.610	2.532	9.8	20.8
1 2	7 39.94	+34 10.0	1.558	2.517	6.2	20.5
1 12	7 26.82	+34 16.8	1.533	2.503	4.9	20.4
1 22	7 13.61	+34 4.5	1.538	2.487	7.6	20.6
2 1	7 2.03	+33 33.6	1.569	2.471	11.5	20.7
2 11	6 53.39	+32 48.3	1.624	2.455	15.3	20.9

522504 2016 EH_{233} 1 11.3 214°.48 0°.3/11.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.16	+19 34.8	3.035	3.782	10.9	23.2
12 13	7 49.61	+19 44.9	2.926	3.773	8.7	23.0
12 23	7 43.30	+19 59.5	2.842	3.764	6.0	22.8
1 2	7 35.61	+20 17.0	2.786	3.754	3.0	22.6
1 12	7 27.15	+20 35.8	2.760	3.743	0.4	22.4
1 22	7 18.63	+20 53.8	2.767	3.733	3.4	22.6
2 1	7 10.80	+21 9.9	2.804	3.721	6.4	22.8
2 11	7 4.30	+21 23.2	2.869	3.709	9.1	22.9

304943 2007 TO_4 1 11.3 175°.56 3°.6/10.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.90	+28 51.2	1.888	2.662	15.7	21.2
12 13	7 56.29	+29 40.5	1.803	2.664	12.5	21.0
12 23	7 48.62	+30 32.2	1.740	2.666	8.8	20.7
1 2	7 38.47	+31 20.3	1.702	2.667	5.2	20.5
1 12	7 26.94	+31 58.4	1.694	2.667	3.7	20.4
1 22	7 15.42	+32 22.2	1.714	2.667	6.5	20.6
2 1	7 5.33	+32 30.3	1.762	2.667	10.3	20.8
2 11	6 57.79	+32 24.6	1.834	2.666	13.8	21.0

74551 1999 JY_{98} 1 11.3 245°.19 4°.1/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.24	+ 6 30.8	2.658	3.378	12.9	20.0
12 13	7 47.53	+ 6 27.0	2.552	3.370	10.7	19.8
12 23	7 41.99	+ 6 35.4	2.468	3.361	8.2	19.7
1 2	7 35.00	+ 6 56.7	2.410	3.352	5.7	19.5
1 12	7 27.20	+ 7 30.4	2.381	3.342	4.2	19.4
1 22	7 19.32	+ 8 14.5	2.381	3.333	5.1	19.4
2 1	7 12.13	+ 9 6.2	2.411	3.323	7.6	19.6
2 11	7 6.32	+10 2.3	2.469	3.313	10.2	19.7

26275 Jefsoulier 1 11.3 238°.71 4°.0/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.42	+10 49.6	1.962	2.711	16.0	18.8
12 13	7 51.56	+10 31.4	1.863	2.703	13.2	18.6
12 23	7 45.16	+10 25.1	1.785	2.695	9.8	18.3
1 2	7 36.71	+10 31.7	1.731	2.686	6.2	18.1
1 12	7 27.07	+10 50.5	1.706	2.677	4.0	18.0
1 22	7 17.34	+11 19.4	1.709	2.668	5.8	18.1
2 1	7 8.64	+11 55.7	1.740	2.659	9.4	18.3
2 11	7 1.95	+12 35.7	1.796	2.650	13.0	18.5

402457 2006 BE_{94} 1 11.3 271°.90 1°.6/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.83	+25 13.8	1.633	2.416	17.3	21.1
12 13	7 55.97	+25 22.2	1.534	2.402	13.9	20.8
12 23	7 48.75	+25 34.1	1.456	2.387	9.7	20.5
1 2	7 38.68	+25 45.4	1.402	2.372	5.0	20.2
1 12	7 26.93	+25 51.5	1.375	2.357	1.7	20.0
1 22	7 15.03	+25 49.1	1.376	2.342	6.1	20.2
2 1	7 4.60	+25 37.4	1.404	2.326	11.1	20.5
2 11	6 56.97	+25 18.0	1.456	2.311	15.5	20.7

391008 2005 SX_{170} 1 11.3 172°.15 1°.0/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.40	+18 20.7	1.859	2.619	16.4	22.4
12 13	7 56.39	+18 22.8	1.770	2.623	13.1	22.2
12 23	7 48.52	+18 32.8	1.702	2.626	9.2	22.0
1 2	7 38.36	+18 48.8	1.660	2.628	4.7	21.7
1 12	7 26.97	+19 7.8	1.648	2.630	1.0	21.4
1 22	7 15.62	+19 26.9	1.664	2.631	5.0	21.7
2 1	7 5.60	+19 44.1	1.710	2.631	9.5	22.0
2 11	6 57.95	+19 58.2	1.781	2.630	13.3	22.2

464148 2014 XY_{29} 1 11.3 82°.09 0°.8/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.75	+19 25.1	1.985	2.752	15.2	21.4
12 13	7 52.39	+19 22.4	1.907	2.764	12.1	21.2
12 23	7 45.53	+19 25.8	1.851	2.777	8.4	21.0
1 2	7 36.78	+19 33.6	1.821	2.790	4.2	20.8
1 12	7 27.09	+19 43.5	1.820	2.803	0.8	20.6
1 22	7 17.57	+19 53.4	1.848	2.816	4.6	20.9
2 1	7 9.31	+20 1.6	1.905	2.828	8.5	21.1
2 11	7 3.15	+20 7.7	1.988	2.841	12.0	21.4

498922 2009 BR_{18} 1 11.3 95°.21 2°.3/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.24	+29 45.3	2.409	3.173	12.9	21.2
12 13	7 53.29	+29 47.2	2.320	3.176	10.3	21.0
12 23	7 46.02	+29 47.5	2.255	3.179	7.2	20.8
1 2	7 36.99	+29 42.9	2.216	3.182	4.0	20.6
1 12	7 27.10	+29 30.7	2.208	3.185	2.4	20.5
1 22	7 17.36	+29 9.7	2.230	3.188	4.8	20.7
2 1	7 8.78	+28 40.6	2.281	3.191	8.0	20.9
2 11	7 2.15	+28 5.2	2.358	3.194	11.0	21.1

105798 2000 SE_{125} 1 11.3 126°.07 0°.8/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.27	+21 44.9	1.972	2.735	15.5	20.5
12 13	7 56.04	+22 16.4	1.896	2.752	12.2	20.3
12 23	7 48.11	+22 54.0	1.843	2.769	8.4	20.1
1 2	7 38.09	+23 34.0	1.815	2.785	4.1	19.9
1 12	7 27.03	+24 11.9	1.818	2.801	0.9	19.7
1 22	7 16.12	+24 43.8	1.851	2.815	4.9	20.0
2 1	7 6.57	+25 7.8	1.912	2.829	8.9	20.3
2 11	6 59.31	+25 23.8	2.000	2.842	12.4	20.5

217425 2005 RF 1 11.4 124°.13 1°.3/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.98	+15 42.7	2.039	2.798	15.2	20.7
12 13	7 51.82	+16 6.2	1.955	2.806	12.1	20.5
12 23	7 45.21	+16 40.4	1.892	2.815	8.5	20.3
1 2	7 36.68	+17 23.1	1.856	2.823	4.5	20.1
1 12	7 27.13	+18 10.9	1.848	2.830	1.3	19.9
1 22	7 17.62	+19 0.0	1.871	2.838	4.5	20.1
2 1	7 9.22	+19 46.9	1.923	2.845	8.5	20.4
2 11	7 2.82	+20 29.3	2.000	2.852	12.0	20.6

197134 2003 UK_{237} 1 11.4 208°.28 2°.4/10.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.68	+29 10.3	2.759	3.516	11.6	20.7
12 13	7 52.72	+29 36.7	2.658	3.510	9.3	20.6
12 23	7 45.61	+30 3.2	2.581	3.503	6.5	20.4
1 2	7 36.83	+30 26.4	2.532	3.496	3.7	20.2
1 12	7 27.12	+30 42.8	2.513	3.488	2.5	20.1
1 22	7 17.39	+30 50.4	2.525	3.480	4.7	20.2
2 1	7 8.56	+30 48.3	2.568	3.471	7.6	20.4
2 11	7 1.42	+30 37.5	2.637	3.461	10.3	20.6

33261 Ginagarlie 1 11.4 143°.47 1°.9/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.68	+16 39.0	2.042	2.803	15.0	18.7
12 13	7 51.58	+16 24.2	1.952	2.804	12.1	18.5
12 23	7 45.04	+16 16.8	1.884	2.806	8.6	18.3
1 2	7 36.60	+16 16.2	1.841	2.807	4.7	18.1
1 12	7 27.14	+16 20.8	1.827	2.808	1.9	17.9
1 22	7 17.74	+16 29.0	1.843	2.809	4.7	18.1
2 1	7 9.44	+16 39.3	1.887	2.810	8.6	18.3
2 11	7 3.14	+16 50.0	1.957	2.811	12.1	18.5

373973 2003 YP_{55} 1 11.4 84°.41 2°.8/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.59	+13 49.7	2.294	3.037	14.1	20.3
12 13	7 51.72	+13 25.4	2.222	3.061	11.3	20.2
12 23	7 44.77	+13 9.1	2.172	3.085	8.1	20.0
1 2	7 36.32	+13 0.8	2.149	3.108	4.8	19.8
1 12	7 27.17	+12 59.7	2.156	3.131	2.8	19.7
1 22	7 18.25	+13 4.5	2.193	3.154	4.6	19.9
2 1	7 10.41	+13 13.8	2.259	3.177	7.7	20.1
2 11	7 4.35	+13 25.8	2.352	3.199	10.6	20.4

143069 2002 WM_{15} 1 11.4 107°.32 3°.0/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 0.58	+26 15.8	2.007	2.775	15.0	20.4
12 13	7 55.65	+27 25.3	1.935	2.794	11.9	20.2
12 23	7 47.94	+28 39.1	1.887	2.813	8.2	20.0
1 2	7 38.06	+29 51.2	1.866	2.832	4.6	19.8
1 12	7 27.05	+30 54.8	1.874	2.850	3.1	19.8
1 22	7 16.15	+31 45.1	1.913	2.867	5.9	20.0
2 1	7 6.60	+32 20.0	1.980	2.884	9.4	20.2
2 11	6 59.38	+32 40.5	2.073	2.900	12.6	20.4

378969 2008 UV_{229} 1 11.4 357°.18 3°.0/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.64	+15 3.7	2.069	2.828	15.0	20.6
12 13	7 50.70	+14 24.3	1.978	2.827	12.1	20.4
12 23	7 44.40	+13 51.6	1.908	2.826	8.8	20.2
1 2	7 36.28	+13 26.3	1.864	2.825	5.2	19.9
1 12	7 27.20	+13 8.3	1.849	2.825	3.0	19.8
1 22	7 18.17	+12 57.2	1.863	2.825	5.2	19.9
2 1	7 10.22	+12 52.2	1.905	2.825	8.7	20.1
2 11	7 4.20	+12 51.8	1.972	2.826	12.0	20.4

279412 2010 FN_{14} 1 11.4 214°.46 1°.3/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.09	+24 24.8	2.620	3.383	12.0	21.3
12 13	7 49.95	+24 53.7	2.523	3.380	9.5	21.1
12 23	7 43.75	+25 26.0	2.449	3.376	6.6	20.9
1 2	7 35.93	+25 58.7	2.403	3.373	3.4	20.7
1 12	7 27.22	+26 28.6	2.388	3.369	1.4	20.5
1 22	7 18.48	+26 53.1	2.402	3.364	4.2	20.7
2 1	7 10.59	+27 10.7	2.447	3.360	7.4	20.9
2 11	7 4.31	+27 21.0	2.518	3.356	10.3	21.1

104984 2000 JL_{77} 1 11.4 268°.07 2°.3/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.54	+15 32.4	1.886	2.651	16.0	20.1
12 13	7 51.83	+15 20.3	1.788	2.642	13.0	19.8
12 23	7 45.45	+15 17.3	1.711	2.633	9.3	19.6
1 2	7 36.92	+15 23.0	1.660	2.624	5.2	19.3
1 12	7 27.15	+15 36.0	1.636	2.616	2.3	19.1
1 22	7 17.29	+15 54.0	1.641	2.607	5.2	19.3
2 1	7 8.56	+16 14.7	1.674	2.598	9.4	19.5
2 11	7 1.97	+16 36.1	1.731	2.589	13.2	19.7

324673 2007 DR_{62} 1 11.4 139°.30 4°.3/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.55	+32 48.5	2.108	2.877	14.4	21.4
12 13	7 55.67	+33 25.2	2.027	2.882	11.6	21.2
12 23	7 47.98	+34 0.0	1.967	2.887	8.4	21.1
1 2	7 38.09	+34 27.2	1.934	2.892	5.4	20.9
1 12	7 27.07	+34 41.9	1.930	2.897	4.4	20.8
1 22	7 16.19	+34 41.3	1.954	2.901	6.5	21.0
2 1	7 6.70	+34 25.6	2.007	2.905	9.6	21.2
2 11	6 59.58	+33 57.6	2.085	2.909	12.6	21.4

462099 2007 MS_{13} 1 11.4 239°.27 0°.1/11.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.82	+17 43.5	2.227	2.986	14.0	21.2
12 13	7 50.93	+18 28.8	2.125	2.979	11.2	21.0
12 23	7 44.68	+19 24.5	2.047	2.972	7.8	20.8
1 2	7 36.50	+20 27.8	1.995	2.965	3.9	20.5
1 12	7 27.18	+21 34.4	1.974	2.957	0.3	20.2
1 22	7 17.71	+22 39.7	1.983	2.949	4.4	20.5
2 1	7 9.13	+23 39.6	2.021	2.941	8.3	20.7
2 11	7 2.38	+24 31.9	2.087	2.933	11.8	20.9

200560 2001 OG_{5} 1 11.4 51°.26 2°.7/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.66	+31 36.4	2.075	2.840	14.7	18.9
12 13	7 56.96	+31 20.5	2.000	2.855	11.7	18.7
12 23	7 48.57	+31 0.4	1.947	2.870	8.2	18.5
1 2	7 38.24	+30 32.5	1.921	2.886	4.6	18.3
1 12	7 27.09	+29 54.8	1.925	2.902	2.8	18.2
1 22	7 16.36	+29 7.1	1.959	2.918	5.3	18.4
2 1	7 7.18	+28 11.8	2.022	2.934	8.8	18.7
2 11	7 0.38	+27 12.2	2.111	2.950	11.9	18.9

429294 2010 CU_{164} 1 11.4 165°.35 2°.2/10.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.17	+28 51.6	2.656	3.416	12.0	21.7
12 13	7 52.29	+29 8.8	2.565	3.419	9.5	21.5
12 23	7 45.28	+29 25.7	2.498	3.422	6.6	21.4
1 2	7 36.65	+29 39.0	2.459	3.424	3.7	21.2
1 12	7 27.20	+29 45.9	2.450	3.427	2.3	21.1
1 22	7 17.82	+29 44.6	2.472	3.429	4.5	21.2
2 1	7 9.43	+29 34.7	2.523	3.430	7.5	21.4
2 11	7 2.78	+29 17.4	2.601	3.432	10.2	21.6

275777 2001 QK_{1} 1 11.4 173°.82 2°.3/10.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.89	+29 50.5	3.056	3.809	10.7	21.9
12 13	7 51.80	+30 12.8	2.963	3.812	8.5	21.7
12 23	7 44.82	+30 34.4	2.894	3.814	6.0	21.6
1 2	7 36.39	+30 52.3	2.854	3.816	3.5	21.4
1 12	7 27.23	+31 3.6	2.844	3.818	2.4	21.3
1 22	7 18.12	+31 6.8	2.866	3.819	4.3	21.5
2 1	7 9.85	+31 1.3	2.918	3.819	6.8	21.6
2 11	7 3.11	+30 48.1	2.997	3.819	9.3	21.8

372998 2011 CW_{89} 1 11.4 139°.63 3°.0/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 54.11	+12 11.9	2.143	2.892	14.8	21.7
12 13	7 50.22	+12 6.7	2.053	2.895	12.0	21.5
12 23	7 44.05	+12 12.4	1.985	2.898	8.7	21.3
1 2	7 36.13	+12 28.8	1.942	2.900	5.3	21.1
1 12	7 27.25	+12 54.4	1.927	2.903	3.0	20.9
1 22	7 18.38	+13 27.0	1.943	2.905	4.9	21.1
2 1	7 10.51	+14 3.6	1.987	2.908	8.3	21.3
2 11	7 4.46	+14 41.5	2.056	2.910	11.6	21.5

17948 1999 JQ_{15} 1 11.4 146°.19 1°.9/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.98	+14 57.9	2.062	2.812	15.3	18.6
12 13	7 54.09	+15 4.7	1.978	2.822	12.3	18.4
12 23	7 46.73	+15 21.4	1.915	2.833	8.7	18.2
1 2	7 37.45	+15 46.7	1.878	2.842	4.8	17.9
1 12	7 27.16	+16 18.0	1.871	2.851	1.9	17.8
1 22	7 16.95	+16 52.2	1.894	2.859	4.7	18.0
2 1	7 7.90	+17 26.7	1.946	2.867	8.5	18.2
2 11	7 0.88	+17 59.2	2.025	2.873	12.0	18.4

48300 Kronk 1 11.4 211°.05 1°.0/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.47	+19 16.6	2.303	3.062	13.6	18.2
12 13	7 51.16	+19 1.9	2.208	3.061	10.9	18.0
12 23	7 44.63	+18 51.7	2.136	3.060	7.6	17.8
1 2	7 36.39	+18 45.2	2.091	3.059	3.9	17.6
1 12	7 27.24	+18 40.8	2.075	3.058	1.0	17.4
1 22	7 18.14	+18 37.5	2.090	3.057	4.2	17.6
2 1	7 10.03	+18 34.3	2.134	3.055	7.8	17.8
2 11	7 3.72	+18 30.7	2.204	3.054	11.1	18.0

372004 2008 HP_{47} 1 11.4 197°.13 4°.9/13.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.57	+ 4 58.3	2.665	3.371	13.2	22.5
12 13	7 50.09	+ 4 36.1	2.563	3.368	11.1	22.4
12 23	7 43.74	+ 4 25.8	2.482	3.364	8.7	22.2
1 2	7 35.92	+ 4 28.6	2.427	3.359	6.3	22.0
1 12	7 27.28	+ 4 44.8	2.401	3.354	4.9	21.9
1 22	7 18.59	+ 5 13.2	2.405	3.348	5.7	22.0
2 1	7 10.63	+ 5 51.5	2.439	3.341	8.0	22.1
2 11	7 4.12	+ 6 36.6	2.500	3.334	10.5	22.3

381279 2007 TR_{317} 1 11.4 2°.31 2°.9/10.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.20	+27 17.1	1.917	2.704	15.0	20.6
12 13	7 50.12	+27 58.3	1.833	2.703	11.9	20.4
12 23	7 44.33	+28 42.7	1.772	2.703	8.3	20.2
1 2	7 36.37	+29 25.4	1.736	2.703	4.6	20.0
1 12	7 27.24	+30 1.2	1.728	2.705	3.0	19.9
1 22	7 18.14	+30 26.3	1.748	2.706	5.9	20.0
2 1	7 10.28	+30 39.0	1.795	2.709	9.6	20.3
2 11	7 4.66	+30 40.0	1.867	2.712	13.0	20.5

380094 2013 TB_{1} 1 11.4 220°.74 0°.4/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.81	+20 30.9	2.357	3.114	13.4	21.2
12 13	7 52.26	+20 26.3	2.255	3.108	10.7	21.0
12 23	7 45.43	+20 26.1	2.176	3.101	7.4	20.8
1 2	7 36.82	+20 28.5	2.124	3.093	3.8	20.5
1 12	7 27.22	+20 31.6	2.102	3.086	0.5	20.3
1 22	7 17.60	+20 33.9	2.111	3.078	4.2	20.5
2 1	7 8.94	+20 34.3	2.149	3.069	7.9	20.8
2 11	7 2.09	+20 32.4	2.214	3.060	11.2	20.9

114096 Haroldbier 1 11.4 149°.75 1°.1/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.71	+23 51.8	1.744	2.513	16.9	20.7
12 13	7 58.46	+24 4.5	1.663	2.523	13.5	20.5
12 23	7 50.07	+24 21.3	1.603	2.531	9.3	20.3
1 2	7 39.20	+24 38.5	1.569	2.539	4.7	20.0
1 12	7 27.06	+24 51.5	1.563	2.546	1.2	19.8
1 22	7 15.09	+24 57.4	1.587	2.552	5.5	20.1
2 1	7 4.71	+24 55.5	1.639	2.558	10.0	20.4
2 11	6 56.99	+24 46.9	1.716	2.562	13.9	20.6

499474 2010 JG_{37} 1 11.4 177°.04 7°.4/15.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 50.98	− 8 38.5	3.361	3.984	12.0	23.0
12 13	7 46.86	− 9 21.2	3.267	3.986	10.7	22.8
12 23	7 41.29	− 9 49.7	3.193	3.987	9.3	22.7
1 2	7 34.63	−10 1.3	3.143	3.988	8.1	22.7
1 12	7 27.38	− 9 54.7	3.119	3.989	7.4	22.6
1 22	7 20.13	− 9 30.1	3.122	3.989	7.6	22.6
2 1	7 13.44	− 8 49.2	3.152	3.989	8.4	22.7
2 11	7 7.86	− 7 55.3	3.207	3.988	9.7	22.8

444197 2005 SZ_{108} 1 11.4 121°.15 1°.7/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.42	+16 21.5	1.787	2.543	17.1	22.8
12 13	7 57.07	+16 24.0	1.714	2.563	13.6	22.6
12 23	7 48.88	+16 36.3	1.662	2.583	9.6	22.4
1 2	7 38.53	+16 56.6	1.635	2.601	5.1	22.2
1 12	7 27.12	+17 21.7	1.637	2.619	1.7	22.0
1 22	7 15.94	+17 48.6	1.669	2.635	5.1	22.2
2 1	7 6.24	+18 14.7	1.730	2.651	9.3	22.5
2 11	6 58.98	+18 38.2	1.816	2.666	13.1	22.8

461969 2006 UD_{159} 1 11.4 28°.81 4°.5/12.8 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 53.19	+11 52.9	1.185	1.982	21.8	20.8
12 13	7 50.86	+11 30.7	1.133	2.002	17.7	20.6
12 23	7 45.11	+11 26.5	1.098	2.024	12.8	20.4
1 2	7 36.77	+11 40.8	1.085	2.047	7.8	20.2
1 12	7 27.24	+12 11.3	1.095	2.071	4.6	20.1
1 22	7 18.12	+12 53.1	1.130	2.096	7.0	20.3
2 1	7 10.89	+13 40.9	1.190	2.123	11.5	20.6
2 11	7 6.57	+14 29.3	1.272	2.150	15.6	20.9

131389 2001 KG_{53} 1 11.4 98°.45 3°.2/ 9.9 18

12 3	7 56.84	+28 45.3	2.303	3.072	13.3	19.8
12 13	7 52.45	+29 41.1	2.225	3.084	10.6	19.7
12 23	7 45.63	+30 38.7	2.171	3.095	7.4	19.5
1 2	7 36.92	+31 32.9	2.144	3.107	4.4	19.3
1 12	7 27.23	+32 18.8	2.146	3.118	3.3	19.3
1 22	7 17.59	+32 52.7	2.179	3.130	5.6	19.4
2 1	7 9.08	+33 13.2	2.240	3.141	8.6	19.6
2 11	7 2.55	+33 21.3	2.327	3.152	11.5	19.8

104942 2000 JZ_{35} 1 11.4 164°.49 4°.2/13.1 18

12 3	7 53.05	+ 6 53.3	2.954	3.665	11.9	20.1
12 13	7 48.63	+ 6 22.2	2.859	3.669	9.9	19.9
12 23	7 42.58	+ 6 0.4	2.787	3.673	7.6	19.8
1 2	7 35.28	+ 5 48.9	2.741	3.677	5.4	19.7
1 12	7 27.35	+ 5 48.1	2.725	3.680	4.2	19.6
1 22	7 19.43	+ 5 57.1	2.739	3.683	5.0	19.6
2 1	7 12.22	+ 6 14.6	2.783	3.686	7.1	19.8
2 11	7 6.29	+ 6 38.4	2.855	3.688	9.3	19.9

498282 2007 VK_{50} 1 11.4 169°.03 4°.1/13.0 17

12 3	7 53.32	+ 7 29.4	2.988	3.700	11.8	21.7
12 13	7 48.83	+ 6 56.9	2.891	3.703	9.8	21.6
12 23	7 42.70	+ 6 33.2	2.818	3.707	7.5	21.4
1 2	7 35.35	+ 6 19.2	2.772	3.709	5.3	21.3
1 12	7 27.35	+ 6 15.3	2.755	3.712	4.1	21.2
1 22	7 19.37	+ 6 20.9	2.769	3.714	4.9	21.3
2 1	7 12.09	+ 6 34.7	2.812	3.715	7.0	21.4
2 11	7 6.08	+ 6 54.6	2.883	3.716	9.3	21.6

405561 2005 NQ_{123} 1 11.4 109°.47 5°.0/10.2 18

12 3	8 6.22	+36 11.4	2.116	2.872	14.7	21.5
12 13	7 59.98	+36 38.9	2.046	2.891	11.9	21.4
12 23	7 50.79	+37 0.9	1.998	2.909	8.8	21.2
1 2	7 39.42	+37 11.4	1.977	2.927	6.0	21.1
1 12	7 27.08	+37 5.8	1.984	2.944	5.1	21.1
1 22	7 15.14	+36 42.6	2.022	2.961	6.9	21.2
2 1	7 4.89	+36 3.6	2.088	2.978	9.7	21.4
2 11	6 57.23	+35 13.1	2.179	2.993	12.5	21.6

47225 1999 VJ_{12} 1 11.4 104°.88 2°.5/10.7 18

12 3	8 6.43	+26 32.4	1.597	2.371	18.1	19.8
12 13	8 0.73	+27 0.9	1.533	2.394	14.3	19.6
12 23	7 51.63	+27 32.0	1.490	2.417	9.9	19.4
1 2	7 39.93	+27 59.7	1.471	2.440	5.2	19.2
1 12	7 27.04	+28 18.5	1.482	2.461	2.6	19.1
1 22	7 14.59	+28 25.1	1.521	2.482	6.2	19.4
2 1	7 4.07	+28 19.5	1.588	2.502	10.6	19.7
2 11	6 56.56	+28 4.2	1.678	2.521	14.3	19.9

124590 2001 SW_{23} 1 11.4 152°.10 0°.2/11.3 18

12 3	8 2.29	+21 1.2	2.014	2.771	15.4	21.4
12 13	7 56.85	+21 16.3	1.930	2.782	12.2	21.2
12 23	7 48.72	+21 37.4	1.868	2.792	8.4	21.0
1 2	7 38.48	+22 1.2	1.832	2.802	4.2	20.7
1 12	7 27.15	+22 24.4	1.827	2.810	0.3	20.4
1 22	7 15.92	+22 43.8	1.852	2.818	4.7	20.8
2 1	7 6.01	+22 57.8	1.906	2.824	8.8	21.1
2 11	6 58.35	+23 6.4	1.987	2.830	12.4	21.3

29951 1999 JH_{86} 1 11.4 111°.52 8°.1/15.8 18

12 3	7 51.02	− 5 23.1	2.518	3.183	14.8	18.4
12 13	7 47.40	− 5 58.1	2.429	3.187	13.0	18.3
12 23	7 41.94	− 6 15.3	2.360	3.190	11.0	18.2
1 2	7 35.04	− 6 11.6	2.313	3.193	9.3	18.1
1 12	7 27.39	− 5 45.9	2.292	3.196	8.2	18.0
1 22	7 19.73	− 4 59.1	2.298	3.199	8.4	18.0
2 1	7 12.86	− 3 54.5	2.331	3.202	9.6	18.1
2 11	7 7.44	− 2 37.0	2.389	3.205	11.5	18.2

335648 2006 KB_{111} 1 11.4 153°.97 2°.6/12.2 18

12 3	7 54.57	+14 13.3	2.410	3.156	13.4	21.6
12 13	7 50.28	+13 51.6	2.317	3.159	10.8	21.4
12 23	7 43.95	+13 37.2	2.247	3.161	7.8	21.2
1 2	7 36.04	+13 30.2	2.204	3.164	4.6	21.0
1 12	7 27.32	+13 29.8	2.190	3.166	2.6	20.9
1 22	7 18.64	+13 35.0	2.206	3.168	4.5	21.0
2 1	7 10.88	+13 44.3	2.252	3.170	7.6	21.2
2 11	7 4.76	+13 56.2	2.324	3.172	10.6	21.4

77277 2001 FV_{59} 1 11.4 309°.04 3°.7/10.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 58.35	+28 30.0	1.614	2.404	17.2	20.2
12 13	7 54.90	+29 11.1	1.527	2.398	13.8	19.9
12 23	7 48.06	+29 55.3	1.462	2.392	9.8	19.7
1 2	7 38.41	+30 36.4	1.420	2.387	5.6	19.4
1 12	7 27.16	+31 7.5	1.406	2.381	3.8	19.3
1 22	7 15.86	+31 23.8	1.419	2.376	7.1	19.5
2 1	7 6.15	+31 24.1	1.458	2.371	11.4	19.7
2 11	6 59.30	+31 10.5	1.520	2.367	15.3	19.9

502910 2015 ET_{14} 1 11.4 236°.53 1°.7/12.2 18

12 3	7 52.43	+14 23.9	2.475	3.224	13.0	21.1
12 13	7 48.69	+14 40.4	2.375	3.221	10.5	20.9
12 23	7 42.93	+15 6.4	2.299	3.217	7.4	20.7
1 2	7 35.58	+15 40.8	2.249	3.213	4.1	20.5
1 12	7 27.36	+16 21.2	2.229	3.209	1.7	20.3
1 22	7 19.07	+17 4.9	2.239	3.205	4.0	20.4
2 1	7 11.58	+17 49.1	2.279	3.201	7.4	20.6
2 11	7 5.66	+18 31.3	2.346	3.196	10.5	20.8

207639 2006 TN_{123} 1 11.4 219°.68 1°.5/11.9 18

12 3	7 52.88	+16 28.7	2.787	3.534	11.8	21.2
12 13	7 48.76	+16 23.4	2.684	3.529	9.4	21.0
12 23	7 42.82	+16 23.9	2.605	3.523	6.7	20.8
1 2	7 35.48	+16 29.6	2.553	3.518	3.6	20.6
1 12	7 27.37	+16 39.3	2.532	3.512	1.5	20.4
1 22	7 19.24	+16 51.3	2.541	3.506	3.7	20.6
2 1	7 11.86	+17 4.6	2.580	3.500	6.7	20.8
2 11	7 5.88	+17 17.7	2.647	3.493	9.6	21.0

354566 2004 TG_{107} 1 11.4 85°.82 0°.9/11.1 17

12 3	8 1.83	+22 1.4	1.573	2.351	18.1	21.3
12 13	7 57.08	+22 28.0	1.509	2.374	14.3	21.1
12 23	7 49.12	+23 1.6	1.466	2.396	9.8	20.9
1 2	7 38.72	+23 37.6	1.448	2.418	4.8	20.6
1 12	7 27.16	+24 10.9	1.457	2.440	1.0	20.4
1 22	7 15.94	+24 37.2	1.495	2.461	5.6	20.8
2 1	7 6.47	+24 54.9	1.561	2.482	10.1	21.1
2 11	6 59.79	+25 4.1	1.650	2.503	14.0	21.4

3536 Schleicher 1 11.4 10°.03 4°.0/10.5 18 R

12 3	8 0.79	+29 52.7	1.431	2.226	18.8	17.5
12 13	7 57.14	+30 18.1	1.353	2.226	15.1	17.2
12 23	7 49.73	+30 43.9	1.296	2.227	10.7	17.0
1 2	7 39.24	+31 3.3	1.261	2.228	6.2	16.7
1 12	7 27.12	+31 9.8	1.253	2.229	4.1	16.6
1 22	7 15.17	+30 59.8	1.271	2.230	7.5	16.8
2 1	7 5.19	+30 34.0	1.315	2.232	12.0	17.1
2 11	6 58.46	+29 56.3	1.381	2.234	16.2	17.3

471194 2010 OM_{107} 1 11.4 236°.90 9°.3/16.2 17

12 3	7 51.05	−12 25.9	2.986	3.592	13.6	21.8
12 13	7 47.24	−13 21.3	2.885	3.581	12.4	21.7
12 23	7 41.76	−13 59.9	2.802	3.569	11.2	21.6
1 2	7 34.96	−14 17.9	2.740	3.558	10.0	21.5
1 12	7 27.41	−14 12.9	2.703	3.546	9.4	21.4
1 22	7 19.78	−13 44.6	2.691	3.534	9.5	21.4
2 1	7 12.75	−12 54.5	2.704	3.521	10.2	21.5
2 11	7 6.96	−11 46.8	2.741	3.508	11.5	21.5

15583 Hanick 1 11.4 102°.33 1°.0/11.7 18 R

12 3	7 57.70	+18 16.1	1.940	2.704	15.6	19.4
12 13	7 53.25	+18 19.7	1.862	2.717	12.4	19.2
12 23	7 46.24	+18 31.0	1.806	2.730	8.7	19.0
1 2	7 37.25	+18 48.0	1.775	2.743	4.5	18.7
1 12	7 27.27	+19 8.1	1.773	2.756	1.0	18.5
1 22	7 17.45	+19 28.5	1.801	2.768	4.6	18.8
2 1	7 8.89	+19 47.2	1.857	2.780	8.7	19.1
2 11	7 2.49	+20 3.0	1.939	2.792	12.2	19.3

334233 2001 TX_{81} 1 11.4 98°.55 3°.2/12.7 18

12 3	7 53.22	+11 24.2	2.473	3.212	13.3	21.1
12 13	7 49.11	+11 6.3	2.388	3.223	10.8	20.9
12 23	7 43.08	+10 57.6	2.325	3.233	7.9	20.7
1 2	7 35.60	+10 58.3	2.289	3.243	5.0	20.6
1 12	7 27.38	+11 7.8	2.282	3.253	3.2	20.5
1 22	7 19.25	+11 24.5	2.304	3.263	4.6	20.6
2 1	7 12.00	+11 46.6	2.356	3.273	7.5	20.8
2 11	7 6.31	+12 11.9	2.434	3.282	10.2	21.0

183758 2004 AQ_{8} 1 11.4 54°.23 9°.3/15.4 18

12 3	7 57.34	− 0 35.5	1.456	2.183	21.5	19.5
12 13	7 53.29	− 1 23.2	1.407	2.216	18.3	19.3
12 23	7 46.34	− 1 45.4	1.375	2.249	14.8	19.2
1 2	7 37.26	− 1 38.2	1.364	2.282	11.5	19.1
1 12	7 27.28	− 1 1.7	1.377	2.315	9.5	19.0
1 22	7 17.71	+ 0 0.0	1.415	2.348	9.9	19.1
2 1	7 9.79	+ 1 20.0	1.479	2.381	12.1	19.4
2 11	7 4.38	+ 2 49.4	1.565	2.414	14.9	19.6

378379 2007 *QM* 1 11.4 45°.20 12°.1/20.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 53.10	−15 26.7	1.978	2.599	19.5	20.1
12 13	7 49.38	−16 3.5	1.923	2.627	17.6	20.0
12 23	7 43.40	−16 11.3	1.882	2.655	15.6	19.9
1 2	7 35.77	−15 45.7	1.860	2.684	13.8	19.9
1 12	7 27.38	−14 45.4	1.860	2.714	12.5	19.9
1 22	7 19.24	−13 13.2	1.883	2.743	12.1	19.9
2 1	7 12.27	−11 15.6	1.931	2.773	12.7	20.0
2 11	7 7.22	− 9 1.5	2.003	2.802	14.0	20.1

354918 2006 DE_{45} 1 11.4 271°.49 1°.1/11.7 18

12 3	7 57.07	+17 51.2	1.657	2.434	17.4	21.7
12 13	7 53.68	+17 58.8	1.555	2.418	14.1	21.5
12 23	7 47.17	+18 16.8	1.474	2.402	10.0	21.2
1 2	7 38.01	+18 43.6	1.416	2.385	5.2	20.9
1 12	7 27.21	+19 15.8	1.386	2.369	1.1	20.5
1 22	7 16.15	+19 49.4	1.384	2.352	5.6	20.8
2 1	7 6.33	+20 21.0	1.409	2.335	10.6	21.1
2 11	6 59.02	+20 48.4	1.457	2.318	15.1	21.3

362635 2011 SL_{139} 1 11.4 20°.29 6°.0/ 9.9 18

12 3	7 58.20	+31 53.9	1.271	2.080	20.0	20.5
12 13	7 55.59	+32 48.3	1.206	2.085	16.1	20.3
12 23	7 48.91	+33 42.7	1.160	2.091	11.7	20.0
1 2	7 38.90	+34 28.0	1.136	2.098	7.5	19.8
1 12	7 27.17	+34 55.1	1.137	2.106	6.1	19.8
1 22	7 15.71	+34 59.2	1.162	2.115	9.0	20.0
2 1	7 6.46	+34 40.9	1.212	2.124	13.3	20.2
2 11	7 0.76	+34 5.2	1.282	2.134	17.3	20.5

452647 2005 UK_{134} 1 11.4 110°.33 4°.8/12.9 18

12 3	7 57.16	+ 8 27.3	2.183	2.911	15.1	21.7
12 13	7 52.37	+ 7 47.6	2.105	2.928	12.5	21.5
12 23	7 45.38	+ 7 19.2	2.048	2.944	9.5	21.3
1 2	7 36.76	+ 7 3.6	2.017	2.960	6.5	21.2
1 12	7 27.33	+ 7 1.0	2.015	2.976	4.8	21.1
1 22	7 18.06	+ 7 10.3	2.042	2.991	6.0	21.2
2 1	7 9.87	+ 7 29.5	2.098	3.006	8.7	21.4
2 11	7 3.51	+ 7 55.6	2.179	3.021	11.5	21.6

314727 2006 SD_{84} 1 11.4 266°.93 1°.7/11.9 18

12 3	7 55.86	+16 16.9	1.834	2.602	16.3	21.0
12 13	7 52.29	+16 19.3	1.734	2.590	13.2	20.7
12 23	7 45.94	+16 31.8	1.654	2.579	9.4	20.5
1 2	7 37.29	+16 53.5	1.600	2.567	5.1	20.2
1 12	7 27.29	+17 21.7	1.573	2.554	1.7	19.9
1 22	7 17.13	+17 53.3	1.575	2.542	5.2	20.1
2 1	7 8.08	+18 25.3	1.605	2.530	9.6	20.4
2 11	7 1.26	+18 55.2	1.659	2.517	13.7	20.6

6431 1967 *UT* 1 11.4 144°.77 0°.5/11.2 18

12 3	7 58.63	+20 59.4	1.714	2.491	16.9	17.5
12 13	7 54.59	+21 25.3	1.631	2.494	13.5	17.2
12 23	7 47.54	+21 59.5	1.568	2.498	9.3	17.0
1 2	7 38.06	+22 38.2	1.531	2.501	4.6	16.7
1 12	7 27.25	+23 16.6	1.521	2.504	0.7	16.4
1 22	7 16.47	+23 50.4	1.540	2.507	5.4	16.8
2 1	7 7.10	+24 16.8	1.587	2.510	9.9	17.0
2 11	7 0.24	+24 35.2	1.659	2.512	13.9	17.3

137856 2000 AP_{57} 1 11.4 322°.51 0°.0/11.3 18

12 3	7 54.76	+20 50.0	1.530	2.322	17.9	19.9
12 13	7 52.05	+20 58.3	1.438	2.311	14.4	19.6
12 23	7 46.12	+21 14.7	1.366	2.300	10.0	19.3
1 2	7 37.49	+21 36.7	1.318	2.289	5.0	19.0
1 12	7 27.28	+22 0.2	1.296	2.279	0.3	18.6
1 22	7 16.95	+22 21.3	1.301	2.269	5.8	19.0
2 1	7 8.04	+22 37.5	1.332	2.260	10.9	19.3
2 11	7 1.81	+22 47.8	1.386	2.252	15.4	19.5

518133 2016 CX_{288} 1 11.4 284°.45 4°.5/ 9.9 18

12 3	7 58.66	+33 32.4	2.147	2.918	14.1	20.9
12 13	7 54.43	+34 6.9	2.047	2.903	11.4	20.7
12 23	7 47.36	+34 39.5	1.969	2.888	8.4	20.5
1 2	7 37.97	+35 4.8	1.917	2.873	5.6	20.3
1 12	7 27.26	+35 17.5	1.893	2.858	4.6	20.2
1 22	7 16.47	+35 14.3	1.898	2.843	6.7	20.3
2 1	7 6.91	+34 55.2	1.931	2.829	10.0	20.4
2 11	6 59.66	+34 22.6	1.988	2.814	13.1	20.6

194149 2001 *TJ* 1 11.4 31°.67 2°.3/10.8 18

12 3	7 57.61	+24 43.5	1.188	1.999	20.9	20.3
12 13	7 54.96	+25 9.2	1.125	2.008	16.6	20.1
12 23	7 48.36	+25 41.2	1.081	2.019	11.5	19.8
1 2	7 38.59	+26 13.6	1.058	2.030	5.9	19.5
1 12	7 27.22	+26 39.7	1.061	2.042	2.4	19.3
1 22	7 16.18	+26 54.6	1.088	2.055	7.1	19.7
2 1	7 7.30	+26 57.0	1.140	2.068	12.3	20.0
2 11	7 1.84	+26 48.7	1.213	2.082	16.9	20.3

221835 2008 EJ_{158} 1 11.4 108°.70 0°.8/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 4.56	+19 47.9	1.558	2.328	18.6	20.3
12 13	7 59.19	+19 41.1	1.489	2.348	14.8	20.0
12 23	7 50.57	+19 41.5	1.441	2.368	10.3	19.8
1 2	7 39.46	+19 46.7	1.417	2.387	5.2	19.6
1 12	7 27.17	+19 53.5	1.422	2.405	0.8	19.3
1 22	7 15.26	+19 59.3	1.455	2.423	5.5	19.7
2 1	7 5.14	+20 2.9	1.516	2.440	10.2	20.0
2 11	6 57.87	+20 4.0	1.601	2.456	14.3	20.3

237495 2000 QF_{56} 1 11.4 259°.26 3°.7/12.7 18

12 3	7 57.69	+10 30.1	1.896	2.641	16.6	21.2
12 13	7 53.79	+10 32.7	1.779	2.618	13.7	20.9
12 23	7 47.09	+10 50.3	1.683	2.593	10.2	20.7
1 2	7 37.96	+11 23.4	1.611	2.568	6.4	20.4
1 12	7 27.25	+12 10.6	1.568	2.543	3.7	20.2
1 22	7 16.12	+13 8.6	1.553	2.516	5.9	20.2
2 1	7 5.90	+14 12.7	1.568	2.489	10.1	20.4
2 11	6 57.78	+15 18.4	1.607	2.461	14.3	20.6

431585 2007 VQ_{98} 1 11.4 3°.69 5°.9/ 9.0 18

12 3	7 56.26	+35 38.1	2.025	2.803	14.6	20.9
12 13	7 52.70	+36 40.0	1.945	2.803	11.9	20.7
12 23	7 46.23	+37 39.6	1.888	2.804	9.0	20.5
1 2	7 37.41	+38 29.9	1.856	2.804	6.5	20.4
1 12	7 27.31	+39 4.5	1.851	2.806	6.0	20.3
1 22	7 17.25	+39 19.7	1.874	2.807	7.8	20.5
2 1	7 8.56	+39 15.1	1.924	2.809	10.7	20.6
2 11	7 2.30	+38 53.5	1.997	2.812	13.5	20.8

450306 2004 RS_{141} 1 11.4 69°.28 1°.4/11.8 17

12 3	8 0.74	+16 59.2	1.425	2.204	19.6	21.6
12 13	7 56.35	+17 9.3	1.367	2.230	15.6	21.4
12 23	7 48.67	+17 31.4	1.328	2.256	10.8	21.2
1 2	7 38.52	+18 2.5	1.313	2.282	5.6	20.9
1 12	7 27.25	+18 38.3	1.326	2.308	1.4	20.7
1 22	7 16.39	+19 14.2	1.365	2.334	5.6	21.1
2 1	7 7.37	+19 47.0	1.432	2.359	10.4	21.4
2 11	7 1.20	+20 14.8	1.522	2.384	14.5	21.7

496202 2011 JJ_{21} 1 11.4 166°.00 2°.7/12.9 17

12 3	7 52.80	+10 23.9	2.614	3.347	12.8	21.8
12 13	7 48.79	+10 37.5	2.518	3.350	10.4	21.6
12 23	7 42.91	+11 2.2	2.445	3.352	7.6	21.4
1 2	7 35.57	+11 37.4	2.399	3.354	4.7	21.2
1 12	7 27.45	+12 21.4	2.382	3.356	2.8	21.1
1 22	7 19.29	+13 11.5	2.396	3.357	4.2	21.2
2 1	7 11.91	+14 4.8	2.440	3.359	7.1	21.4
2 11	7 5.98	+14 58.2	2.512	3.360	10.0	21.6

286667 2002 EQ_{120} 1 11.4 292°.60 2°.8/12.4 18

12 3	7 53.95	+13 40.0	1.983	2.742	15.5	21.2
12 13	7 50.42	+13 32.6	1.888	2.737	12.6	21.0
12 23	7 44.43	+13 35.8	1.814	2.732	9.1	20.8
1 2	7 36.47	+13 49.3	1.765	2.727	5.3	20.5
1 12	7 27.39	+14 11.7	1.744	2.721	2.8	20.4
1 22	7 18.26	+14 40.5	1.752	2.716	5.1	20.5
2 1	7 10.16	+15 12.9	1.788	2.711	8.9	20.7
2 11	7 4.04	+15 46.2	1.849	2.707	12.5	20.9

461776 2005 UE_{390} 1 11.4 201°.02 7°.0/13.9 17

12 3	7 54.55	+ 1 45.0	2.251	2.955	15.4	22.2
12 13	7 50.47	+ 0 58.8	2.155	2.952	13.2	22.0
12 23	7 44.24	+ 0 27.2	2.080	2.949	10.7	21.8
1 2	7 36.30	+ 0 13.0	2.029	2.946	8.3	21.7
1 12	7 27.40	+ 0 17.8	2.005	2.942	7.0	21.6
1 22	7 18.47	+ 0 41.0	2.010	2.938	7.7	21.6
2 1	7 10.41	+ 1 20.1	2.041	2.934	9.8	21.7
2 11	7 4.05	+ 2 10.8	2.098	2.930	12.3	21.9

49785 1999 XB_{10} 1 11.4 191°.77 0°.7/11.1 18

12 3	7 58.14	+22 6.4	1.961	2.731	15.3	20.6
12 13	7 53.87	+22 28.9	1.870	2.730	12.2	20.4
12 23	7 46.88	+22 57.6	1.800	2.729	8.4	20.1
1 2	7 37.70	+23 29.0	1.757	2.727	4.2	19.9
1 12	7 27.31	+23 59.2	1.743	2.726	0.8	19.6
1 22	7 16.90	+24 24.6	1.758	2.724	5.0	19.9
2 1	7 7.69	+24 43.1	1.801	2.721	9.1	20.2
2 11	7 0.71	+24 54.4	1.870	2.718	12.8	20.4

14763 6793 *P–L* 1 11.4 203°.22 2°.2/10.7 18

12 3	8 1.42	+25 8.4	1.799	2.572	16.3	19.6
12 13	7 56.89	+25 42.9	1.707	2.568	13.1	19.4
12 23	7 49.22	+26 22.5	1.636	2.565	9.1	19.1
1 2	7 38.97	+27 2.3	1.591	2.560	4.8	18.9
1 12	7 27.22	+27 36.6	1.575	2.555	2.3	18.7
1 22	7 15.41	+28 1.0	1.587	2.549	5.9	18.9
2 1	7 4.99	+28 13.6	1.628	2.543	10.3	19.1
2 11	6 57.15	+28 15.2	1.693	2.536	14.2	19.4

118089 1093 T-3 1 11.4 144°.58 2°.2/10.7 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 1.15	+27 29.6	2.109	2.873	14.5	19.7
12 13	7 55.98	+27 48.5	2.025	2.882	11.5	19.5
12 23	7 48.14	+28 8.3	1.964	2.890	8.0	19.3
1 2	7 38.24	+28 25.1	1.930	2.898	4.3	19.1
1 12	7 27.29	+28 34.7	1.926	2.905	2.3	19.0
1 22	7 16.49	+28 34.9	1.951	2.911	5.2	19.2
2 1	7 7.01	+28 25.5	2.006	2.917	8.9	19.4
2 11	6 59.78	+28 8.0	2.086	2.923	12.1	19.7

365733 2010 VU_{214} 1 11.4 193°.29 0°.7/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.72	+22 48.5	2.148	2.911	14.3	21.8
12 13	7 54.06	+23 2.2	2.053	2.909	11.4	21.6
12 23	7 46.86	+23 20.3	1.981	2.908	7.9	21.4
1 2	7 37.65	+23 39.8	1.935	2.905	3.9	21.1
1 12	7 27.32	+23 57.5	1.919	2.902	0.8	20.9
1 22	7 17.00	+24 10.6	1.934	2.899	4.6	21.1
2 1	7 7.79	+24 17.9	1.977	2.895	8.6	21.4
2 11	7 0.64	+24 19.3	2.046	2.891	12.0	21.6

293581 2007 JF_1 1 11.4 339°.16 5°.3/ 9.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.94	+29 37.0	1.343	2.146	19.4	20.3
12 13	7 56.16	+30 38.9	1.265	2.142	15.6	20.0
12 23	7 49.41	+31 45.2	1.207	2.139	11.2	19.8
1 2	7 39.29	+32 47.0	1.172	2.136	6.9	19.5
1 12	7 27.20	+33 34.6	1.162	2.134	5.4	19.4
1 22	7 15.09	+34 1.3	1.177	2.131	8.7	19.6
2 1	7 4.93	+34 5.4	1.217	2.130	13.3	19.8
2 11	6 58.22	+33 50.3	1.279	2.128	17.5	20.1

165842 2001 RE_{153} 1 11.4 82°.86 0°.0/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.81	+19 48.2	2.391	3.150	13.2	20.2
12 13	7 50.50	+20 13.2	2.315	3.169	10.4	20.0
12 23	7 44.10	+20 44.3	2.263	3.189	7.1	19.8
1 2	7 36.15	+21 19.0	2.238	3.208	3.5	19.6
1 12	7 27.43	+21 54.0	2.243	3.226	0.2	19.4
1 22	7 18.83	+22 26.7	2.279	3.245	3.9	19.7
2 1	7 11.23	+22 55.0	2.344	3.264	7.3	20.0
2 11	7 5.36	+23 18.0	2.436	3.282	10.3	20.2

406152 2006 VK_{169} 1 11.4 34°.06 2°.9/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.23	+15 23.6	1.462	2.246	19.0	20.7
12 13	7 52.05	+15 1.9	1.394	2.258	15.3	20.5
12 23	7 45.80	+14 51.6	1.345	2.271	10.9	20.3
1 2	7 37.17	+14 52.3	1.319	2.285	6.1	20.1
1 12	7 27.37	+15 2.5	1.319	2.299	2.9	19.9
1 22	7 17.80	+15 19.4	1.346	2.313	5.9	20.1
2 1	7 9.83	+15 40.0	1.399	2.329	10.4	20.4
2 11	7 4.47	+16 1.9	1.476	2.345	14.5	20.7

453910 2011 US_{339} 1 11.4 122°.93 0°.7/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.85	+17 52.9	1.980	2.735	15.7	21.9
12 13	7 55.67	+18 15.1	1.904	2.754	12.4	21.7
12 23	7 47.89	+18 46.1	1.850	2.773	8.6	21.5
1 2	7 38.10	+19 23.1	1.822	2.790	4.4	21.3
1 12	7 27.32	+20 2.2	1.824	2.807	0.7	21.1
1 22	7 16.69	+20 40.0	1.857	2.824	4.6	21.4
2 1	7 7.37	+21 13.6	1.919	2.839	8.6	21.7
2 11	7 0.24	+21 41.7	2.007	2.854	12.1	21.9

43409 2000 WY_{147} 1 11.4 205°.95 1°.4/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.53	+22 22.1	1.859	2.632	15.9	19.2
12 13	7 54.45	+23 5.0	1.767	2.629	12.7	19.0
12 23	7 47.47	+23 55.8	1.697	2.626	8.8	18.7
1 2	7 38.09	+24 50.3	1.653	2.623	4.4	18.5
1 12	7 27.31	+25 42.8	1.637	2.619	1.5	18.3
1 22	7 16.43	+26 28.3	1.651	2.615	5.5	18.5
2 1	7 6.80	+27 3.7	1.692	2.610	9.8	18.8
2 11	6 59.52	+27 28.2	1.759	2.605	13.6	19.0

345557 2006 RZ_{40} 1 11.4 148°.04 1°.3/11.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.38	+17 0.6	2.971	3.712	11.2	22.0
12 13	7 49.71	+16 50.8	2.879	3.721	9.0	21.9
12 23	7 43.35	+16 46.0	2.812	3.729	6.3	21.7
1 2	7 35.74	+16 45.3	2.772	3.736	3.4	21.5
1 12	7 27.48	+16 47.8	2.763	3.744	1.3	21.4
1 22	7 19.29	+16 52.2	2.786	3.751	3.4	21.5
2 1	7 11.87	+16 57.6	2.839	3.757	6.3	21.7
2 11	7 5.81	+17 3.2	2.920	3.763	8.9	21.9

472513 2015 CM_{36} 1 11.4 318°.94 2°.4/10.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.49	+24 41.4	1.940	2.723	15.0	20.6
12 13	7 50.50	+25 33.3	1.842	2.710	11.9	20.4
12 23	7 44.78	+26 32.1	1.765	2.696	8.3	20.2
1 2	7 36.78	+27 33.3	1.714	2.684	4.4	19.9
1 12	7 27.40	+28 30.9	1.692	2.671	2.5	19.7
1 22	7 17.83	+29 19.7	1.698	2.659	5.8	19.9
2 1	7 9.34	+29 56.5	1.732	2.647	9.8	20.1
2 11	7 3.04	+30 20.6	1.790	2.636	13.4	20.3

379485 2010 EL_{98} 1 11.4 291°.37 1°.3/11.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 52.59	+16 16.2	2.291	3.050	13.7	21.4
12 13	7 49.06	+16 27.0	2.190	3.042	11.0	21.2
12 23	7 43.36	+16 46.3	2.111	3.033	7.7	21.0
1 2	7 35.91	+17 13.1	2.059	3.025	4.2	20.7
1 12	7 27.47	+17 45.0	2.035	3.017	1.3	20.5
1 22	7 18.95	+18 19.3	2.042	3.009	4.2	20.7
2 1	7 11.29	+18 53.3	2.077	3.001	7.9	20.9
2 11	7 5.34	+19 25.2	2.139	2.993	11.2	21.1

403028 2007 XE_{50} 1 11.4 29°.58 0°.5/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.39	+19 20.7	1.394	2.190	19.2	20.5
12 13	7 52.53	+19 31.2	1.324	2.198	15.3	20.3
12 23	7 46.35	+19 51.9	1.273	2.207	10.6	20.0
1 2	7 37.54	+20 19.9	1.246	2.217	5.3	19.7
1 12	7 27.36	+20 50.8	1.244	2.227	0.5	19.4
1 22	7 17.37	+21 20.1	1.269	2.238	5.8	19.8
2 1	7 9.07	+21 45.0	1.319	2.250	10.8	20.1
2 11	7 3.60	+22 3.9	1.393	2.262	15.1	20.4

241130 2007 PG_{39} 1 11.4 97°.04 0°.2/11.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.25	+20 17.4	1.767	2.535	16.8	21.5
12 13	7 56.28	+20 42.2	1.700	2.558	13.3	21.3
12 23	7 48.43	+21 14.7	1.653	2.581	9.1	21.1
1 2	7 38.39	+21 51.1	1.633	2.603	4.5	20.8
1 12	7 27.32	+22 26.9	1.641	2.624	0.4	20.6
1 22	7 16.51	+22 58.4	1.679	2.646	5.0	21.0
2 1	7 7.22	+23 23.4	1.745	2.666	9.3	21.3
2 11	7 0.41	+23 41.2	1.836	2.686	13.0	21.5

85546 1997 XH_1 1 11.4 75°.21 2°.0/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 6.35	+24 57.3	1.536	2.312	18.6	19.7
12 13	8 0.53	+25 26.9	1.485	2.348	14.6	19.5
12 23	7 51.39	+26 0.3	1.455	2.384	10.0	19.3
1 2	7 39.81	+26 31.6	1.450	2.419	5.1	19.1
1 12	7 27.24	+26 55.4	1.473	2.454	2.1	19.0
1 22	7 15.29	+27 8.4	1.525	2.488	5.9	19.4
2 1	7 5.36	+27 10.4	1.604	2.521	10.3	19.7
2 11	6 58.42	+27 3.4	1.707	2.554	14.0	20.0

127881 2003 GG_5 1 11.4 130°.88 0°.7/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.22	+19 6.1	1.860	2.622	16.3	20.7
12 13	7 56.18	+19 10.7	1.781	2.635	13.0	20.5
12 23	7 48.36	+19 22.6	1.724	2.649	9.0	20.3
1 2	7 38.39	+19 39.6	1.692	2.661	4.6	20.1
1 12	7 27.33	+19 58.5	1.690	2.673	0.7	19.8
1 22	7 16.44	+20 16.4	1.717	2.684	4.9	20.1
2 1	7 6.94	+20 31.6	1.773	2.695	9.1	20.4
2 11	6 59.79	+20 43.2	1.854	2.705	12.8	20.7

421342 2013 TU_{95} 1 11.4 100°.26 0°.4/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.53	+19 18.7	2.287	3.049	13.6	21.5
12 13	7 50.49	+19 33.1	2.201	3.056	10.8	21.3
12 23	7 44.24	+19 54.0	2.137	3.063	7.5	21.1
1 2	7 36.30	+20 19.2	2.100	3.069	3.8	20.9
1 12	7 27.48	+20 46.1	2.093	3.076	0.4	20.6
1 22	7 18.71	+21 12.0	2.116	3.083	4.1	20.9
2 1	7 10.93	+21 34.8	2.168	3.089	7.7	21.2
2 11	7 4.93	+21 53.7	2.246	3.096	10.9	21.4

175725 1997 NZ_5 1 11.4 71°.69 1°.2/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.12	+17 26.4	1.711	2.482	17.2	20.2
12 13	7 53.86	+17 33.3	1.644	2.503	13.6	20.1
12 23	7 46.79	+17 49.6	1.597	2.523	9.5	19.9
1 2	7 37.61	+18 13.4	1.576	2.544	4.9	19.6
1 12	7 27.41	+18 41.1	1.582	2.564	1.2	19.4
1 22	7 17.46	+19 9.5	1.617	2.585	5.0	19.7
2 1	7 8.99	+19 35.9	1.680	2.605	9.3	20.0
2 11	7 2.90	+19 58.7	1.767	2.625	13.0	20.3

495522 2014 VJ_{33} 1 11.4 82°.98 5°.6/ 9.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.46	+33 58.0	1.983	2.756	15.0	21.5
12 13	7 55.95	+35 16.1	1.916	2.772	12.1	21.4
12 23	7 48.42	+36 33.0	1.871	2.787	9.0	21.2
1 2	7 38.51	+37 40.8	1.852	2.803	6.4	21.1
1 12	7 27.35	+38 32.6	1.862	2.818	5.8	21.1
1 22	7 16.31	+39 3.9	1.900	2.833	7.7	21.2
2 1	7 6.77	+39 14.4	1.965	2.849	10.6	21.4
2 11	6 59.76	+39 7.1	2.054	2.864	13.4	21.6

281844 2010 CR_{29} 1 11.4 143°.83 3°.2/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.58	+ 9 52.9	2.532	3.266	13.2	21.2
12 13	7 48.67	+ 9 52.7	2.440	3.270	10.7	21.0
12 23	7 42.87	+10 3.4	2.369	3.274	8.0	20.8
1 2	7 35.60	+10 25.0	2.325	3.278	5.1	20.6
1 12	7 27.55	+10 56.3	2.311	3.282	3.2	20.5
1 22	7 19.50	+11 35.0	2.326	3.285	4.6	20.6
2 1	7 12.25	+12 18.4	2.371	3.288	7.4	20.8
2 11	7 6.51	+13 3.8	2.443	3.291	10.2	21.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
415839 2001 RN_{116}			1 11.4 191°.27		2°.5/10.5 18	
	h m	° ′			°	m
12 3	8 0.14	+28 9.3	2.347	3.107	13.3	22.2
12 13	7 55.10	+28 40.0	2.252	3.106	10.6	22.0
12 23	7 47.55	+29 12.0	2.180	3.104	7.5	21.8
1 2	7 38.01	+29 41.1	2.136	3.101	4.2	21.6
1 12	7 27.40	+30 3.1	2.122	3.098	2.6	21.5
1 22	7 16.77	+30 15.1	2.138	3.094	5.2	21.6
2 1	7 7.24	+30 16.1	2.183	3.090	8.5	21.8
2 11	6 59.72	+30 7.5	2.255	3.085	11.6	22.0
37169 2000 WX_{22}			1 11.4 210°.58		1°.4/10.7 18	
12 3	7 56.59	+23 9.7	2.299	3.063	13.5	19.4
12 13	7 52.35	+23 53.4	2.201	3.058	10.7	19.2
12 23	7 45.71	+24 43.1	2.127	3.054	7.4	19.0
1 2	7 37.14	+25 35.0	2.079	3.049	3.8	18.8
1 12	7 27.45	+26 24.6	2.062	3.043	1.5	18.6
1 22	7 17.65	+27 8.0	2.075	3.037	4.7	18.8
2 1	7 8.81	+27 42.4	2.118	3.031	8.3	19.0
2 11	7 1.84	+28 7.4	2.186	3.025	11.6	19.2
243411 2009 BA_{90}			1 11.4 275°.64		0°.3/11.5 17	
12 3	7 53.40	+20 2.4	2.448	3.210	12.8	21.5
12 13	7 49.59	+20 9.9	2.345	3.200	10.2	21.3
12 23	7 43.66	+20 22.8	2.265	3.191	7.1	21.1
1 2	7 36.06	+20 39.3	2.212	3.181	3.6	20.9
1 12	7 27.52	+20 57.2	2.188	3.172	0.3	20.6
1 22	7 18.92	+21 14.3	2.195	3.162	4.0	20.9
2 1	7 11.17	+21 28.9	2.231	3.152	7.5	21.1
2 11	7 5.06	+21 40.3	2.293	3.143	10.7	21.3
138088 2000 DE_{66}			1 11.4 126°.73		1°.7/10.9 18	
12 3	8 0.67	+25 47.8	2.049	2.815	14.8	20.3
12 13	7 55.63	+26 6.7	1.969	2.827	11.8	20.1
12 23	7 47.92	+26 27.9	1.912	2.839	8.1	19.9
1 2	7 38.17	+26 47.5	1.881	2.850	4.2	19.7
1 12	7 27.40	+27 1.6	1.880	2.861	1.8	19.6
1 22	7 16.79	+27 7.8	1.909	2.871	5.0	19.8
2 1	7 7.52	+27 5.3	1.966	2.881	8.8	20.1
2 11	7 0.49	+26 55.3	2.049	2.890	12.2	20.3
241178 2007 RK_{234}			1 11.4 188°.33		0°.5/11.6 18	
12 3	7 58.80	+18 16.4	1.981	2.741	15.5	21.2
12 13	7 54.35	+18 39.3	1.888	2.741	12.4	21.0
12 23	7 47.22	+19 11.4	1.816	2.740	8.6	20.8
1 2	7 37.93	+19 50.2	1.770	2.739	4.4	20.5
1 12	7 27.41	+20 31.8	1.753	2.737	0.5	20.2
1 22	7 16.82	+21 12.4	1.767	2.734	4.8	20.5
2 1	7 7.38	+21 48.9	1.809	2.731	9.0	20.8
2 11	7 0.09	+22 19.6	1.877	2.727	12.7	21.0
297104 2010 OX_{60}			1 11.4 195°.16		2°.9/12.7 17	
12 3	7 52.42	+11 13.8	2.892	3.622	11.7	21.7
12 13	7 48.31	+10 58.6	2.791	3.620	9.6	21.6
12 23	7 42.50	+10 51.5	2.714	3.618	7.1	21.4
1 2	7 35.39	+10 52.5	2.663	3.616	4.5	21.2
1 12	7 27.58	+11 1.1	2.643	3.613	2.9	21.1
1 22	7 19.76	+11 16.3	2.652	3.610	4.2	21.2
2 1	7 12.63	+11 36.5	2.692	3.607	6.7	21.3
2 11	7 6.81	+11 59.7	2.760	3.604	9.3	21.5
313855 2004 EF_{114}			1 11.4 320°.55		10°.8/ 9.2 18	
12 3	8 13.42	+49 47.7	1.856	2.594	17.1	20.2
12 13	8 7.42	+50 46.8	1.783	2.593	14.9	20.1
12 23	7 56.95	+51 31.9	1.730	2.593	12.8	19.9
1 2	7 42.90	+51 51.9	1.699	2.593	11.2	19.8
1 12	7 27.12	+51 38.0	1.693	2.592	10.9	19.8
1 22	7 11.90	+50 47.9	1.712	2.592	12.0	19.9
2 1	6 59.33	+49 25.9	1.755	2.591	14.0	20.0
2 11	6 50.73	+47 41.3	1.821	2.591	16.3	20.1
301716 2010 GK_{100}			1 11.4 194°.79		1°.1/11.0 18	
12 3	7 59.75	+22 41.6	1.844	2.616	16.1	21.2
12 13	7 55.41	+23 9.3	1.753	2.614	12.8	21.0
12 23	7 48.12	+23 43.4	1.684	2.613	8.9	20.7
1 2	7 38.43	+24 20.1	1.640	2.610	4.5	20.4
1 12	7 27.39	+24 54.6	1.625	2.608	1.2	20.2
1 22	7 16.31	+25 22.8	1.639	2.604	5.3	20.5
2 1	7 6.53	+25 42.4	1.682	2.601	9.7	20.7
2 11	6 59.16	+25 53.4	1.749	2.597	13.6	21.0
489137 2006 DC_{115}			1 11.4 244°.90		0°.9/11.1 18	
12 3	7 59.38	+22 39.4	1.798	2.572	16.3	22.3
12 13	7 55.32	+22 58.1	1.698	2.561	13.1	22.1
12 23	7 48.21	+23 23.1	1.619	2.549	9.1	21.8
1 2	7 38.56	+23 50.9	1.566	2.536	4.6	21.5
1 12	7 27.39	+24 17.1	1.541	2.524	1.0	21.2
1 22	7 16.04	+24 37.8	1.545	2.511	5.5	21.5
2 1	7 5.97	+24 50.8	1.576	2.497	10.1	21.7
2 11	6 58.36	+24 56.1	1.632	2.483	14.2	21.9

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
394860 2008 TL_{85}			1 11.4 152°.41		2°.3/12.2 18	
	h m	° ′			°	m
12 3	8 0.92	+14 35.7	1.959	2.707	16.0	22.8
12 13	7 55.82	+14 32.6	1.874	2.717	12.9	22.6
12 23	7 48.08	+14 39.7	1.810	2.726	9.2	22.4
1 2	7 38.29	+14 55.9	1.772	2.735	5.2	22.2
1 12	7 27.42	+15 19.1	1.764	2.743	2.3	22.0
1 22	7 16.62	+15 46.5	1.785	2.750	5.0	22.2
2 1	7 7.07	+16 15.4	1.836	2.756	9.0	22.4
2 11	6 59.69	+16 43.7	1.912	2.761	12.6	22.7
410324 2007 UX_{6}			1 11.4 247°.91		3°.4/10.1 18	
12 3	7 59.02	+26 50.5	1.774	2.555	16.3	21.7
12 13	7 55.23	+27 47.1	1.681	2.547	13.0	21.4
12 23	7 48.27	+28 49.6	1.609	2.538	9.2	21.2
1 2	7 38.63	+29 51.7	1.563	2.529	5.2	20.9
1 12	7 27.38	+30 46.4	1.545	2.521	3.5	20.8
1 22	7 15.94	+31 27.8	1.555	2.511	6.7	21.0
2 1	7 5.84	+31 53.2	1.592	2.502	10.9	21.2
2 11	6 58.34	+32 3.3	1.654	2.493	14.7	21.4
129608 1997 YQ_{8}			1 11.4 28°.81		2°.6/10.7 18	
12 3	7 56.53	+24 34.2	1.210	2.021	20.6	19.8
12 13	7 54.10	+25 12.8	1.147	2.031	16.4	19.5
12 23	7 47.81	+25 58.7	1.103	2.041	11.3	19.3
1 2	7 38.40	+26 45.6	1.081	2.053	5.9	19.0
1 12	7 27.41	+27 25.7	1.084	2.065	2.7	18.8
1 22	7 16.68	+27 53.4	1.113	2.078	7.1	19.1
2 1	7 8.03	+28 6.5	1.165	2.092	12.3	19.5
2 11	7 2.72	+28 6.7	1.239	2.107	16.7	19.8
94709 2001 XD_{58}			1 11.4 99°.52		1°.1/11.0 17	
12 3	8 1.81	+22 11.6	1.636	2.411	17.6	20.6
12 13	7 57.09	+22 45.0	1.567	2.430	13.9	20.4
12 23	7 49.22	+23 25.7	1.519	2.449	9.6	20.2
1 2	7 38.91	+24 8.7	1.497	2.467	4.8	19.9
1 12	7 27.38	+24 48.7	1.503	2.485	1.2	19.7
1 22	7 16.10	+25 21.0	1.537	2.502	5.6	20.1
2 1	7 6.48	+25 43.6	1.599	2.519	10.1	20.4
2 11	6 59.56	+25 56.8	1.686	2.536	13.9	20.6
279005 2008 UQ_{256}			1 11.4 119°.82		0°.9/11.1 18	
12 3	7 55.18	+22 44.9	2.269	3.036	13.6	21.1
12 13	7 51.13	+23 9.8	2.181	3.040	10.7	20.9
12 23	7 44.78	+23 39.5	2.115	3.043	7.4	20.7
1 2	7 36.63	+24 11.0	2.076	3.046	3.7	20.5
1 12	7 27.53	+24 40.7	2.067	3.049	1.0	20.2
1 22	7 18.44	+25 5.8	2.087	3.052	4.4	20.5
2 1	7 10.38	+25 24.6	2.137	3.056	8.0	20.7
2 11	7 4.18	+25 36.5	2.213	3.058	11.2	20.9
192433 1997 TL_{26}			1 11.4 28°.65		5°.9/ 9.8 18	
12 3	7 59.54	+31 22.1	1.308	2.112	19.7	19.8
12 13	7 56.62	+32 22.6	1.241	2.118	15.9	19.6
12 23	7 49.66	+33 24.3	1.193	2.124	11.5	19.3
1 2	7 39.39	+34 17.8	1.169	2.131	7.4	19.1
1 12	7 27.35	+34 53.7	1.169	2.138	6.0	19.1
1 22	7 15.54	+35 6.7	1.195	2.146	9.0	19.2
2 1	7 5.88	+34 56.8	1.244	2.155	13.2	19.5
2 11	6 59.74	+34 28.5	1.315	2.164	17.2	19.8
138185 2000 EK_{113}			1 11.4 21°.80		3°.9/12.5 18	
12 3	7 52.90	+13 18.7	1.284	2.078	20.6	19.7
12 13	7 50.68	+12 58.6	1.218	2.087	16.7	19.5
12 23	7 45.14	+12 53.7	1.170	2.097	12.1	19.3
1 2	7 36.99	+13 4.5	1.144	2.108	7.2	19.0
1 12	7 27.51	+13 29.1	1.142	2.120	3.9	18.9
1 22	7 18.23	+14 3.6	1.166	2.133	6.6	19.1
2 1	7 10.66	+14 43.5	1.215	2.147	11.3	19.4
2 11	7 5.89	+15 24.3	1.285	2.163	15.6	19.7
201887 2004 AD_{14}			1 11.4 357°.45		1°.1/11.7 18	
12 3	7 50.88	+18 46.1	1.589	2.382	17.3	20.3
12 13	7 48.69	+18 42.4	1.506	2.378	13.9	20.1
12 23	7 43.61	+18 47.4	1.442	2.374	9.7	19.8
1 2	7 36.22	+18 59.5	1.402	2.372	5.0	19.5
1 12	7 27.56	+19 16.1	1.388	2.371	1.1	19.3
1 22	7 18.92	+19 34.3	1.402	2.371	5.3	19.5
2 1	7 11.62	+19 51.5	1.441	2.373	10.0	19.8
2 11	7 6.71	+20 6.1	1.504	2.375	14.1	20.1
281884 2010 JM_{83}			1 11.4 232°.37		1°.4/11.8 18	
12 3	7 59.52	+17 41.6	1.983	2.740	15.6	21.6
12 13	7 55.03	+17 38.7	1.877	2.728	12.6	21.4
12 23	7 47.79	+17 43.4	1.792	2.715	8.9	21.1
1 2	7 38.29	+17 54.6	1.734	2.701	4.7	20.9
1 12	7 27.43	+18 9.9	1.704	2.686	1.4	20.6
1 22	7 16.40	+18 26.8	1.704	2.671	4.9	20.8
2 1	7 6.45	+18 43.4	1.733	2.655	9.3	21.0
2 11	6 58.65	+18 58.1	1.787	2.638	13.2	21.2

353817 2012 TV_{310} 1 11.4 53°.75 0°.5/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 1.16	+20 3.2	1.174	1.974	21.8	21.1
12 13	7 57.41	+20 3.9	1.121	1.997	17.3	20.9
12 23	7 49.80	+20 14.7	1.086	2.020	11.9	20.6
1 2	7 39.25	+20 31.8	1.073	2.044	5.9	20.4
1 12	7 27.39	+20 50.8	1.085	2.068	0.6	20.1
1 22	7 16.09	+21 7.4	1.123	2.092	6.3	20.5
2 1	7 7.03	+21 19.5	1.186	2.117	11.7	20.9
2 11	7 1.32	+21 26.8	1.271	2.141	16.2	21.2

428447 2007 TF_{384} 1 11.4 346°.40 4°.7/13.4 18

12 3	7 51.41	+ 7 17.5	2.276	3.010	14.4	21.2
12 13	7 48.02	+ 6 54.8	2.182	3.008	12.0	21.0
12 23	7 42.59	+ 6 44.5	2.109	3.006	9.2	20.8
1 2	7 35.54	+ 6 48.0	2.062	3.004	6.4	20.7
1 12	7 27.62	+ 7 5.1	2.042	3.003	4.8	20.5
1 22	7 19.68	+ 7 34.3	2.050	3.002	5.8	20.6
2 1	7 12.59	+ 8 13.0	2.087	3.001	8.4	20.8
2 11	7 7.13	+ 8 57.6	2.150	3.000	11.3	20.9

122947 2000 SH_{195} 1 11.4 63°.05 3°.1/12.4 18

12 3	7 57.11	+13 53.2	1.495	2.270	19.0	20.2
12 13	7 53.60	+13 42.2	1.420	2.279	15.4	20.0
12 23	7 46.97	+13 44.6	1.365	2.288	11.1	19.8
1 2	7 37.87	+14 0.0	1.333	2.297	6.4	19.5
1 12	7 27.48	+14 26.1	1.327	2.306	3.2	19.3
1 22	7 17.22	+14 59.5	1.349	2.316	6.0	19.5
2 1	7 8.51	+15 36.2	1.397	2.325	10.5	19.8
2 11	7 2.43	+16 12.8	1.469	2.335	14.7	20.1

454366 2014 MR_{39} 1 11.4 188°.34 1°.3/10.9 18

12 3	7 59.09	+22 25.0	1.892	2.663	15.7	21.4
12 13	7 54.83	+23 5.0	1.802	2.663	12.5	21.1
12 23	7 47.71	+23 52.5	1.733	2.662	8.7	20.9
1 2	7 38.25	+24 43.2	1.691	2.661	4.4	20.7
1 12	7 27.45	+25 31.8	1.677	2.659	1.4	20.4
1 22	7 16.59	+26 13.5	1.693	2.657	5.3	20.7
2 1	7 6.96	+26 45.6	1.737	2.655	9.6	20.9
2 11	6 59.67	+27 7.4	1.807	2.652	13.4	21.2

93495 2000 TB_{39} 1 11.4 11°.94 4°.1/10.0 18

12 3	7 57.38	+26 55.5	1.380	2.182	19.0	18.8
12 13	7 54.67	+28 0.1	1.305	2.183	15.2	18.5
12 23	7 48.24	+29 11.7	1.250	2.185	10.7	18.3
1 2	7 38.72	+30 22.3	1.219	2.186	6.1	18.0
1 12	7 27.42	+31 22.7	1.213	2.189	4.3	17.9
1 22	7 16.13	+32 5.9	1.234	2.192	7.8	18.1
2 1	7 6.65	+32 29.1	1.279	2.195	12.4	18.4
2 11	7 0.37	+32 34.2	1.347	2.199	16.6	18.6

381659 2009 BS_{2} 1 11.4 301°.18 1°.4/10.7 17

12 3	7 53.66	+21 18.4	2.219	2.988	13.7	20.2
12 13	7 50.31	+22 21.3	2.110	2.970	11.0	20.0
12 23	7 44.52	+23 34.2	2.024	2.953	7.6	19.7
1 2	7 36.68	+24 52.9	1.965	2.935	3.8	19.5
1 12	7 27.55	+26 12.1	1.936	2.918	1.5	19.3
1 22	7 18.14	+27 26.2	1.938	2.901	4.9	19.5
2 1	7 9.54	+28 30.9	1.969	2.883	8.8	19.7
2 11	7 2.79	+29 23.9	2.025	2.867	12.3	19.9

439982 2001 WG_{87} 1 11.4 46°.66 2°.0/11.8 17

12 3	8 0.74	+18 23.3	1.157	1.956	22.1	21.0
12 13	7 56.97	+17 58.5	1.107	1.981	17.6	20.8
12 23	7 49.41	+17 44.2	1.074	2.007	12.2	20.6
1 2	7 39.03	+17 39.1	1.063	2.033	6.4	20.4
1 12	7 27.45	+17 40.3	1.077	2.059	2.0	20.2
1 22	7 16.49	+17 45.2	1.117	2.087	6.4	20.5
2 1	7 7.76	+17 51.5	1.182	2.114	11.6	20.9
2 11	7 2.32	+17 57.9	1.269	2.142	16.0	21.2

381670 2009 BE_{48} 1 11.4 30°.16 0°.0/11.4 18

12 3	7 53.48	+20 15.1	1.941	2.717	15.2	21.4
12 13	7 50.09	+20 30.4	1.863	2.726	12.0	21.2
12 23	7 44.20	+20 52.6	1.806	2.736	8.3	20.9
1 2	7 36.40	+21 19.1	1.775	2.746	4.1	20.7
1 12	7 27.61	+21 46.7	1.773	2.756	0.2	20.4
1 22	7 18.92	+22 12.2	1.799	2.767	4.6	20.8
2 1	7 11.42	+22 33.5	1.853	2.778	8.6	21.0
2 11	7 5.98	+22 49.6	1.933	2.790	12.1	21.3

150998 2001 UC_{34} 1 11.4 16°.56 4°.6/13.2 18

12 3	7 51.07	+ 9 34.9	1.389	2.170	19.9	19.2
12 13	7 49.04	+ 9 32.1	1.317	2.176	16.4	19.0
12 23	7 43.95	+ 9 48.7	1.264	2.183	12.1	18.7
1 2	7 36.43	+10 25.5	1.233	2.191	7.7	18.5
1 12	7 27.60	+11 19.8	1.227	2.201	4.7	18.4
1 22	7 18.86	+12 26.5	1.246	2.211	6.6	18.5
2 1	7 11.61	+13 39.1	1.291	2.223	10.9	18.8
2 11	7 6.92	+14 51.2	1.359	2.235	15.0	19.0

455966 2005 VH_{108} 1 11.4 190°.93 2°.2/10.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 57.88	+26 3.2	2.164	2.932	14.1	21.9
12 13	7 53.54	+26 41.9	2.072	2.931	11.2	21.7
12 23	7 46.63	+27 24.1	2.003	2.930	7.8	21.5
1 2	7 37.66	+28 5.7	1.962	2.929	4.2	21.3
1 12	7 27.54	+28 41.9	1.949	2.927	2.3	21.1
1 22	7 17.38	+29 9.0	1.966	2.926	5.2	21.3
2 1	7 8.34	+29 25.3	2.012	2.923	8.9	21.5
2 11	7 1.38	+29 31.3	2.084	2.921	12.2	21.8

461112 2015 CO_{8} 1 11.4 141°.77 2°.8/12.8 18

12 3	7 52.76	+10 49.1	2.559	3.294	13.0	21.6
12 13	7 48.83	+10 53.8	2.466	3.299	10.6	21.4
12 23	7 43.00	+11 9.0	2.396	3.304	7.7	21.2
1 2	7 35.72	+11 34.3	2.353	3.308	4.8	21.1
1 12	7 27.66	+12 8.4	2.339	3.312	2.9	20.9
1 22	7 19.61	+12 48.8	2.355	3.316	4.3	21.0
2 1	7 12.35	+13 32.9	2.401	3.320	7.2	21.2
2 11	7 6.57	+14 17.9	2.475	3.324	10.0	21.4

455961 2005 VR_{76} 1 11.4 76°.67 2°.3/11.9 18

12 3	8 0.69	+17 43.5	1.857	2.617	16.4	20.9
12 13	7 55.59	+17 1.8	1.784	2.636	13.1	20.7
12 23	7 47.84	+16 25.8	1.733	2.654	9.2	20.5
1 2	7 38.13	+15 55.5	1.708	2.673	5.1	20.3
1 12	7 27.53	+15 30.6	1.712	2.691	2.3	20.2
1 22	7 17.24	+15 10.7	1.745	2.710	5.1	20.4
2 1	7 8.37	+14 55.3	1.806	2.728	9.0	20.7
2 11	7 1.79	+14 43.7	1.894	2.746	12.5	20.9

145181 2005 JK_{20} 1 11.4 161°.52 1°.8/10.3 17

12 3	7 55.16	+25 21.7	2.956	3.711	11.0	20.8
12 13	7 50.64	+26 13.4	2.864	3.716	8.7	20.6
12 23	7 44.23	+27 8.4	2.796	3.720	6.0	20.5
1 2	7 36.34	+28 3.2	2.758	3.725	3.2	20.3
1 12	7 27.64	+28 54.1	2.751	3.728	1.9	20.2
1 22	7 18.88	+29 38.0	2.775	3.732	4.1	20.3
2 1	7 10.88	+30 13.0	2.830	3.735	6.9	20.5
2 11	7 4.33	+30 38.8	2.912	3.738	9.4	20.7

300360 2007 RV_{86} 1 11.4 46°.20 2°.7/10.8 18

12 3	7 59.69	+26 26.8	1.386	2.184	19.2	20.5
12 13	7 56.11	+26 51.7	1.321	2.196	15.2	20.3
12 23	7 48.92	+27 19.9	1.276	2.210	10.6	20.0
1 2	7 38.90	+27 45.9	1.254	2.223	5.6	19.8
1 12	7 27.49	+28 3.6	1.257	2.238	2.8	19.6
1 22	7 16.40	+28 9.3	1.288	2.252	6.7	19.9
2 1	7 7.28	+28 2.7	1.344	2.267	11.4	20.2
2 11	7 1.27	+27 46.0	1.423	2.282	15.5	20.5

366 Vincentina 1 11.4 143°.86 3°.8/10.0 18

12 3	7 58.26	+33 22.4	2.521	3.282	12.5	14.0
12 13	7 53.48	+33 51.5	2.434	3.286	10.0	13.9
12 23	7 46.36	+34 18.2	2.371	3.289	7.3	13.7
1 2	7 37.43	+34 38.1	2.335	3.292	4.7	13.5
1 12	7 27.58	+34 47.3	2.329	3.295	3.8	13.5
1 22	7 17.82	+34 43.7	2.352	3.297	5.6	13.6
2 1	7 9.18	+34 27.5	2.404	3.300	8.4	13.8
2 11	7 2.47	+34 0.7	2.482	3.302	11.0	14.0

112066 2002 JC_{17} 1 11.4 240°.94 3°.4/10.1 18

12 3	7 59.72	+27 21.5	1.804	2.582	16.1	20.1
12 13	7 55.77	+28 15.3	1.709	2.573	12.9	19.9
12 23	7 48.66	+29 14.2	1.636	2.565	9.1	19.6
1 2	7 38.87	+30 12.1	1.589	2.555	5.2	19.4
1 12	7 27.48	+31 2.1	1.570	2.546	3.6	19.2
1 22	7 15.90	+31 38.5	1.580	2.536	6.7	19.4
2 1	7 5.65	+31 59.0	1.617	2.526	10.8	19.6
2 11	6 57.99	+32 4.5	1.677	2.515	14.6	19.8

412763 2014 OK_{384} 1 11.4 237°.10 3°.2/10.3 18

12 3	8 0.71	+27 17.3	1.890	2.664	15.7	21.1
12 13	7 56.43	+28 5.0	1.791	2.652	12.6	20.8
12 23	7 49.06	+28 57.3	1.713	2.640	8.9	20.6
1 2	7 39.06	+29 48.6	1.661	2.627	5.0	20.3
1 12	7 27.47	+30 32.4	1.637	2.614	3.3	20.2
1 22	7 15.66	+31 3.5	1.643	2.600	6.4	20.3
2 1	7 5.11	+31 19.8	1.677	2.585	10.5	20.6
2 11	6 57.05	+31 22.2	1.735	2.571	14.3	20.8

288976 2004 TO_{42} 1 11.4 228°.65 2°.3/10.8 18

12 3	8 0.84	+26 6.3	1.742	2.519	16.6	21.3
12 13	7 56.61	+26 32.0	1.649	2.513	13.3	21.1
12 23	7 49.18	+27 1.5	1.577	2.507	9.3	20.8
1 2	7 39.09	+27 29.9	1.531	2.500	4.9	20.5
1 12	7 27.48	+27 52.0	1.512	2.492	2.4	20.3
1 22	7 15.80	+28 3.6	1.523	2.485	6.1	20.6
2 1	7 5.56	+28 3.7	1.560	2.477	10.5	20.8
2 11	6 57.98	+27 53.4	1.622	2.469	14.5	21.0

453042 2007 SY_{15} 1 11.4 142°.18 0°.7/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 1.13	+22 2.8	1.993	2.755	15.3	22.2
12 13	7 56.08	+22 26.9	1.911	2.767	12.2	22.0
12 23	7 48.34	+22 56.7	1.852	2.778	8.4	21.8
1 2	7 38.48	+23 28.7	1.819	2.788	4.2	21.6
1 12	7 27.53	+23 58.7	1.815	2.798	0.8	21.4
1 22	7 16.68	+24 23.5	1.841	2.807	4.8	21.7
2 1	7 7.13	+24 41.2	1.897	2.815	8.9	21.9
2 11	6 59.82	+24 51.7	1.978	2.822	12.4	22.2

275232 2009 WZ_{247} 1 11.4 31°.72 3°.6/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.93	+27 22.1	1.820	2.605	15.7	20.1
12 13	7 52.53	+28 26.6	1.743	2.611	12.5	19.9
12 23	7 46.21	+29 35.6	1.688	2.617	8.8	19.7
1 2	7 37.54	+30 42.7	1.658	2.624	5.1	19.5
1 12	7 27.58	+31 41.2	1.657	2.631	3.7	19.4
1 22	7 17.64	+32 25.9	1.684	2.638	6.5	19.6
2 1	7 9.06	+32 54.3	1.738	2.646	10.2	19.9
2 11	7 2.90	+33 7.5	1.816	2.654	13.6	20.1

402449 2006 BE_{59} 1 11.4 263°.50 0°.2/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.73	+21 15.5	1.678	2.457	17.1	22.0
12 13	7 55.05	+21 25.7	1.579	2.443	13.8	21.7
12 23	7 48.19	+21 43.1	1.499	2.429	9.6	21.4
1 2	7 38.66	+22 5.1	1.445	2.415	4.9	21.1
1 12	7 27.51	+22 27.5	1.417	2.401	0.4	20.7
1 22	7 16.15	+22 46.6	1.418	2.386	5.6	21.1
2 1	7 6.11	+23 0.0	1.447	2.371	10.5	21.3
2 11	6 58.65	+23 7.3	1.499	2.356	14.9	21.6

291425 2006 DX_{23} 1 11.4 355°.90 0°.6/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.64	+18 37.9	2.046	2.814	14.8	21.1
12 13	7 50.96	+18 50.0	1.956	2.813	11.8	20.9
12 23	7 44.84	+19 9.8	1.887	2.813	8.2	20.7
1 2	7 36.77	+19 35.6	1.844	2.813	4.2	20.5
1 12	7 27.64	+20 4.2	1.830	2.813	0.7	20.2
1 22	7 18.50	+20 32.6	1.845	2.813	4.5	20.5
2 1	7 10.43	+20 58.6	1.889	2.813	8.5	20.7
2 11	7 4.34	+21 20.5	1.958	2.813	12.0	20.9

104520 2000 GW_{47} 1 11.4 114°.04 2°.7/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.79	+12 36.5	2.423	3.166	13.4	19.6
12 13	7 49.72	+12 26.7	2.335	3.173	10.9	19.4
12 23	7 43.65	+12 26.1	2.270	3.181	7.9	19.3
1 2	7 36.06	+12 34.4	2.231	3.189	4.8	19.1
1 12	7 27.69	+12 50.4	2.221	3.196	2.8	18.9
1 22	7 19.36	+13 12.5	2.242	3.204	4.4	19.1
2 1	7 11.94	+13 38.4	2.291	3.211	7.5	19.3
2 11	7 6.11	+14 6.1	2.368	3.218	10.4	19.5

168716 2000 JK_{41} 1 11.4 172°.25 5°.5/ 8.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.17	+40 13.7	2.997	3.741	11.1	21.2
12 13	7 54.91	+41 14.8	2.914	3.744	9.2	21.1
12 23	7 47.34	+42 11.2	2.854	3.747	7.2	21.0
1 2	7 37.95	+42 57.7	2.822	3.749	5.8	20.9
1 12	7 27.57	+43 29.6	2.819	3.750	5.6	20.9
1 22	7 17.18	+43 44.3	2.846	3.752	6.7	20.9
2 1	7 7.78	+43 41.8	2.900	3.752	8.6	21.1
2 11	7 0.24	+43 24.3	2.980	3.753	10.5	21.2

80035 1999 JV_{21} 1 11.4 208°.10 2°.4/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.57	+13 39.5	2.909	3.644	11.6	19.9
12 13	7 49.25	+13 22.0	2.805	3.640	9.4	19.8
12 23	7 43.20	+13 10.8	2.725	3.635	6.8	19.6
1 2	7 35.81	+13 6.1	2.671	3.629	4.1	19.4
1 12	7 27.70	+13 7.2	2.648	3.623	2.4	19.3
1 22	7 19.57	+13 13.2	2.656	3.617	3.9	19.4
2 1	7 12.14	+13 22.9	2.695	3.611	6.6	19.5
2 11	7 6.04	+13 34.9	2.760	3.604	9.3	19.7

344812 2004 BH_{159} 1 11.4 71°.57 1°.0/11.7 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.18	+18 11.0	1.309	2.097	20.6	21.7
12 13	7 57.17	+18 20.9	1.248	2.117	16.4	21.5
12 23	7 49.57	+18 42.6	1.206	2.137	11.4	21.3
1 2	7 39.20	+19 12.9	1.187	2.157	5.8	21.0
1 12	7 27.50	+19 46.8	1.194	2.177	1.0	20.7
1 22	7 16.17	+20 19.6	1.228	2.197	6.0	21.1
2 1	7 6.82	+20 48.0	1.288	2.217	11.1	21.5
2 11	7 0.57	+21 10.7	1.371	2.237	15.5	21.8

50118 2000 AJ_{119} 1 11.4 50°.94 3°.4/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.19	+13 20.4	1.265	2.053	21.2	18.8
12 13	7 54.18	+13 13.6	1.199	2.064	17.2	18.6
12 23	7 47.66	+13 23.4	1.150	2.076	12.4	18.3
1 2	7 38.33	+13 49.3	1.124	2.088	7.1	18.1
1 12	7 27.56	+14 28.1	1.122	2.101	3.4	17.9
1 22	7 16.99	+15 14.8	1.146	2.114	6.6	18.1
2 1	7 8.24	+16 4.2	1.195	2.127	11.5	18.4
2 11	7 2.50	+16 51.7	1.267	2.140	16.0	18.7

500027 2011 SD_{29} 1 11.4 122°.57 2°.4/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 51.53	+12 6.4	3.009	3.742	11.3	22.3
12 13	7 47.52	+12 0.3	2.919	3.751	9.1	22.1
12 23	7 41.92	+12 1.9	2.853	3.760	6.6	22.0
1 2	7 35.14	+12 10.9	2.813	3.769	4.1	21.8
1 12	7 27.76	+12 26.5	2.804	3.778	2.4	21.7
1 22	7 20.41	+12 47.2	2.826	3.786	3.7	21.8
2 1	7 13.75	+13 11.3	2.877	3.794	6.2	22.0
2 11	7 8.35	+13 37.1	2.957	3.802	8.7	22.1

289492 2005 EK_{110} 1 11.4 253°.95 3°.0/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.32	+30 2.9	2.639	3.399	12.0	21.1
12 13	7 52.81	+30 37.4	2.529	3.382	9.6	20.9
12 23	7 46.02	+31 12.5	2.442	3.363	6.9	20.7
1 2	7 37.36	+31 44.3	2.383	3.345	4.1	20.5
1 12	7 27.61	+32 8.6	2.354	3.326	3.0	20.4
1 22	7 17.72	+32 22.5	2.355	3.306	5.2	20.5
2 1	7 8.68	+32 25.0	2.386	3.287	8.2	20.6
2 11	7 1.39	+32 17.0	2.443	3.266	11.0	20.8

295964 2008 YX_{20} 1 11.4 354°.86 0°.8/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.90	+17 28.8	1.960	2.734	15.2	20.6
12 13	7 48.94	+17 48.6	1.870	2.731	12.1	20.4
12 23	7 43.53	+18 18.0	1.801	2.729	8.5	20.1
1 2	7 36.16	+18 55.2	1.758	2.727	4.4	19.9
1 12	7 27.69	+19 36.8	1.743	2.726	0.8	19.6
1 22	7 19.18	+20 19.2	1.757	2.725	4.6	19.9
2 1	7 11.73	+20 59.0	1.798	2.725	8.7	20.1
2 11	7 6.25	+21 34.0	1.865	2.725	12.3	20.4

142978 2002 VU_{84} 1 11.4 34°.61 2°.8/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.53	+13 50.6	1.319	2.109	20.4	19.3
12 13	7 51.80	+13 54.7	1.260	2.128	16.3	19.1
12 23	7 45.81	+14 14.7	1.220	2.148	11.6	18.9
1 2	7 37.32	+14 49.2	1.203	2.169	6.5	18.7
1 12	7 27.63	+15 34.3	1.210	2.191	2.8	18.5
1 22	7 18.24	+16 24.7	1.244	2.213	6.0	18.8
2 1	7 10.60	+17 15.3	1.304	2.236	10.7	19.1
2 11	7 5.72	+18 2.1	1.386	2.260	14.9	19.4

416879 2005 QZ_{31} 1 11.4 150°.77 4°.0/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.02	+ 7 54.4	2.337	3.061	14.4	22.2
12 13	7 51.54	+ 7 53.2	2.248	3.070	11.8	22.0
12 23	7 44.95	+ 8 5.0	2.180	3.078	8.9	21.8
1 2	7 36.74	+ 8 30.0	2.138	3.085	5.9	21.7
1 12	7 27.66	+ 9 7.1	2.126	3.092	4.0	21.6
1 22	7 18.60	+ 9 53.7	2.143	3.099	5.2	21.6
2 1	7 10.46	+10 46.3	2.190	3.105	8.0	21.8
2 11	7 3.99	+11 41.5	2.264	3.110	11.0	22.0

149899 2005 SC_{20} 1 11.4 176°.65 0°.6/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.21	+21 2.4	1.761	2.531	16.8	21.1
12 13	7 56.69	+21 32.8	1.674	2.533	13.4	20.9
12 23	7 49.11	+22 11.7	1.607	2.535	9.3	20.7
1 2	7 39.02	+22 55.1	1.566	2.536	4.6	20.4
1 12	7 27.53	+23 37.8	1.553	2.536	0.8	20.1
1 22	7 16.01	+24 15.3	1.570	2.536	5.4	20.4
2 1	7 5.86	+24 44.7	1.615	2.535	10.0	20.7
2 11	6 58.24	+25 5.2	1.684	2.533	14.0	20.9

291683 2006 HM_{96} 1 11.4 161°.18 1°.2/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.69	+23 26.9	2.132	2.893	14.5	21.9
12 13	7 55.66	+23 53.8	2.045	2.900	11.5	21.7
12 23	7 48.02	+24 25.2	1.980	2.906	7.9	21.5
1 2	7 38.35	+24 57.6	1.942	2.911	4.0	21.2
1 12	7 27.58	+25 26.8	1.934	2.916	1.2	21.0
1 22	7 16.86	+25 49.6	1.956	2.920	4.8	21.3
2 1	7 7.32	+26 4.5	2.008	2.923	8.6	21.5
2 11	6 59.91	+26 11.5	2.085	2.926	12.0	21.8

146346 2001 OS_{85} 1 11.4 83°.32 2°.2/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.80	+17 9.1	1.855	2.614	16.4	19.9
12 13	7 55.67	+16 38.8	1.786	2.636	13.1	19.7
12 23	7 47.90	+16 15.5	1.738	2.658	9.3	19.5
1 2	7 38.19	+15 58.7	1.715	2.680	5.1	19.3
1 12	7 27.60	+15 47.4	1.722	2.702	2.2	19.2
1 22	7 17.33	+15 40.5	1.758	2.723	5.0	19.4
2 1	7 8.49	+15 36.9	1.822	2.744	8.9	19.7
2 11	7 1.92	+15 35.7	1.912	2.765	12.4	20.0

365624 2010 UX_{53} 1 11.5 166°.26 6°.2/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.06	+ 5 49.3	2.106	2.827	15.8	21.5
12 13	7 52.60	+ 4 54.8	2.016	2.830	13.3	21.4
12 23	7 45.82	+ 4 12.5	1.947	2.833	10.5	21.2
1 2	7 37.23	+ 3 45.2	1.903	2.835	7.7	21.0
1 12	7 27.66	+ 3 34.4	1.887	2.837	6.2	20.9
1 22	7 18.11	+ 3 39.6	1.899	2.839	7.2	21.0
2 1	7 9.58	+ 3 59.0	1.939	2.840	9.7	21.1
2 11	7 2.92	+ 4 29.0	2.004	2.841	12.6	21.3

51983 Hönig 1 11.5 158°.12 2°.6/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 52.80	+32 26.3	3.649	4.402	9.1	19.8
12 13	7 48.45	+32 54.0	3.558	4.406	7.3	19.7
12 23	7 42.54	+33 20.2	3.493	4.409	5.2	19.6
1 2	7 35.46	+33 42.2	3.456	4.412	3.3	19.4
1 12	7 27.77	+33 57.5	3.449	4.415	2.7	19.4
1 22	7 20.12	+34 4.7	3.474	4.418	4.0	19.5
2 1	7 13.13	+34 3.3	3.528	4.421	6.0	19.6
2 11	7 7.38	+33 54.0	3.610	4.424	8.0	19.8

381313 2007 VO_{118} 1 11.5 22°.37 5°.2/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.02	+ 6 38.4	2.243	2.975	14.7	20.8
12 13	7 48.53	+ 6 7.4	2.154	2.977	12.3	20.7
12 23	7 42.97	+ 5 48.9	2.086	2.979	9.5	20.5
1 2	7 35.81	+ 5 44.6	2.042	2.982	6.8	20.3
1 12	7 27.79	+ 5 54.7	2.026	2.984	5.2	20.2
1 22	7 19.78	+ 6 18.0	2.039	2.987	6.1	20.3
2 1	7 12.67	+ 6 51.8	2.079	2.990	8.6	20.5
2 11	7 7.21	+ 7 32.8	2.145	2.993	11.4	20.6

69683 1998 HK_{21} 1 11.5 295°.22 1°.6/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.12	+17 34.7	1.576	2.357	17.9	20.0
12 13	7 53.11	+17 29.8	1.478	2.343	14.5	19.7
12 23	7 46.94	+17 34.7	1.400	2.329	10.3	19.4
1 2	7 38.10	+17 48.4	1.346	2.314	5.5	19.1
1 12	7 27.65	+18 8.3	1.318	2.300	1.6	18.8
1 22	7 16.98	+18 31.1	1.318	2.287	5.7	19.1
2 1	7 7.62	+18 53.9	1.344	2.273	10.8	19.3
2 11	7 0.85	+19 14.7	1.394	2.260	15.3	19.5

464311 2016 AY_{104} 1 11.5 244°.04 0°.2/11.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.82	+18 0.9	2.272	3.027	13.9	21.6
12 13	7 52.67	+18 40.0	2.161	3.012	11.1	21.4
12 23	7 46.10	+19 29.2	2.072	2.996	7.8	21.1
1 2	7 37.52	+20 25.8	2.010	2.979	4.0	20.9
1 12	7 27.69	+21 26.0	1.979	2.962	0.3	20.5
1 22	7 17.60	+22 25.2	1.978	2.945	4.4	20.8
2 1	7 8.34	+23 19.8	2.007	2.927	8.4	21.0
2 11	7 0.88	+24 7.4	2.063	2.908	11.9	21.2

308196 2005 EZ_{15} 1 11.5 296°.65 1°.3/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.56	+17 30.2	1.604	2.385	17.7	21.3
12 13	7 52.62	+17 35.8	1.507	2.371	14.3	21.1
12 23	7 46.58	+17 52.2	1.429	2.357	10.1	20.8
1 2	7 37.92	+18 18.0	1.375	2.344	5.4	20.5
1 12	7 27.66	+18 50.0	1.348	2.330	1.3	20.2
1 22	7 17.19	+19 24.1	1.348	2.317	5.6	20.4
2 1	7 7.98	+19 56.9	1.375	2.304	10.6	20.7
2 11	7 1.30	+20 26.0	1.425	2.291	15.1	20.9

104047 2000 EM_{12} 1 11.5 249°.44 1°.1/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.02	+22 2.3	2.146	2.910	14.3	20.0
12 13	7 53.85	+22 40.0	2.036	2.893	11.5	19.8
12 23	7 47.06	+23 25.2	1.948	2.875	8.0	19.5
1 2	7 38.05	+24 14.5	1.887	2.857	4.0	19.2
1 12	7 27.66	+25 3.1	1.855	2.838	1.1	19.0
1 22	7 17.00	+25 46.8	1.854	2.818	4.9	19.2
2 1	7 7.28	+26 22.4	1.882	2.799	9.0	19.4
2 11	6 59.57	+26 48.8	1.936	2.778	12.7	19.6

33902 Ingoldsby 1 11.5 168°.07 1°.9/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.25	+15 39.0	1.775	2.536	17.0	19.6
12 13	7 54.97	+15 44.5	1.687	2.539	13.7	19.3
12 23	7 47.83	+16 1.0	1.620	2.542	9.7	19.1
1 2	7 38.38	+16 27.2	1.579	2.545	5.3	18.9
1 12	7 27.66	+17 0.1	1.565	2.546	1.9	18.6
1 22	7 16.93	+17 36.1	1.581	2.548	5.2	18.9
2 1	7 7.49	+18 11.8	1.624	2.549	9.6	19.1
2 11	7 0.41	+18 45.0	1.693	2.549	13.6	19.4

495716 2016 CO_{110} 1 11.5 244°.56 2°.4/12.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.36	+14 52.9	2.160	2.911	14.6	22.0
12 13	7 52.25	+14 38.3	2.055	2.900	11.9	21.8
12 23	7 45.74	+14 31.9	1.971	2.888	8.6	21.6
1 2	7 37.29	+14 33.5	1.914	2.876	5.0	21.3
1 12	7 27.73	+14 42.0	1.885	2.863	2.4	21.1
1 22	7 18.04	+14 55.6	1.886	2.851	4.8	21.3
2 1	7 9.30	+15 12.6	1.916	2.837	8.6	21.5
2 11	7 2.42	+15 31.2	1.972	2.824	12.1	21.7

236767 2007 OP_{5} 1 11.5 120°.47 1°.2/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.05	+22 33.9	1.960	2.722	15.6	21.0
12 13	7 56.83	+23 10.9	1.886	2.741	12.3	20.8
12 23	7 48.87	+23 53.8	1.834	2.760	8.4	20.6
1 2	7 38.79	+24 38.3	1.809	2.778	4.2	20.4
1 12	7 27.65	+25 19.4	1.813	2.795	1.3	20.2
1 22	7 16.67	+25 53.2	1.848	2.812	5.0	20.5
2 1	7 7.07	+26 17.9	1.912	2.828	9.0	20.8
2 11	6 59.78	+26 33.4	2.001	2.843	12.4	21.0

31178 1997 XK_{13} 1 11.5 143°.69 4°.6/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 52.13	+ 3 26.4	2.830	3.530	12.6	18.8
12 13	7 48.13	+ 3 25.5	2.737	3.537	10.6	18.7
12 23	7 42.45	+ 3 37.8	2.666	3.544	8.3	18.6
1 2	7 35.48	+ 4 4.0	2.621	3.551	6.0	18.4
1 12	7 27.84	+ 4 43.4	2.605	3.557	4.7	18.3
1 22	7 20.21	+ 5 34.0	2.619	3.563	5.2	18.4
2 1	7 13.27	+ 6 32.8	2.663	3.568	7.2	18.5
2 11	7 7.63	+ 7 36.3	2.734	3.573	9.5	18.7

110963 2001 UK_{170} 1 11.5 188°.90 1°.9/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.11	+26 4.0	2.300	3.063	13.5	20.1
12 13	7 54.35	+26 32.7	2.206	3.062	10.8	19.9
12 23	7 47.13	+27 4.2	2.135	3.061	7.5	19.7
1 2	7 37.95	+27 34.5	2.091	3.059	4.0	19.5
1 12	7 27.70	+27 59.7	2.077	3.057	2.0	19.4
1 22	7 17.43	+28 16.8	2.094	3.054	4.9	19.5
2 1	7 8.23	+28 24.6	2.139	3.051	8.4	19.8
2 11	7 1.01	+28 23.7	2.211	3.047	11.6	20.0

229372 2005 RM_{9} 1 11.5 164°.75 2°.3/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.47	+25 20.8	1.856	2.623	16.1	21.0
12 13	7 58.39	+26 1.7	1.771	2.629	12.8	20.8
12 23	7 50.24	+26 47.4	1.708	2.634	8.9	20.6
1 2	7 39.60	+27 32.7	1.671	2.639	4.7	20.3
1 12	7 27.61	+28 11.6	1.663	2.643	2.4	20.2
1 22	7 15.64	+28 39.7	1.685	2.645	5.8	20.4
2 1	7 5.10	+28 55.3	1.735	2.648	10.0	20.7
2 11	6 57.12	+28 59.5	1.811	2.649	13.6	20.9

401911 2001 UF_{77} 1 11.5 64°.82 4°.5/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.47	+29 54.9	1.695	2.476	16.9	20.5
12 13	7 56.94	+30 59.9	1.638	2.502	13.4	20.3
12 23	7 49.21	+32 5.8	1.602	2.528	9.5	20.2
1 2	7 39.01	+33 5.1	1.591	2.553	5.8	20.0
1 12	7 27.65	+33 50.6	1.609	2.579	4.6	20.0
1 22	7 16.61	+34 18.3	1.654	2.604	7.1	20.2
2 1	7 7.32	+34 27.6	1.727	2.630	10.6	20.5
2 11	7 0.79	+34 21.5	1.823	2.655	13.9	20.7

88800 2001 SE_{122} 1 11.5 169°.96 2°.7/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.61	+14 15.7	1.920	2.669	16.3	20.9
12 13	7 55.75	+14 2.7	1.831	2.674	13.2	20.7
12 23	7 48.20	+13 59.6	1.762	2.677	9.5	20.5
1 2	7 38.52	+14 6.0	1.719	2.680	5.5	20.3
1 12	7 27.68	+14 20.3	1.705	2.683	2.7	20.1
1 22	7 16.85	+14 40.3	1.720	2.684	5.3	20.3
2 1	7 7.25	+15 3.6	1.764	2.685	9.2	20.5
2 11	6 59.85	+15 27.9	1.834	2.685	12.9	20.7

146637 2001 UP_{47} 1 11.5 85°.43 0°.8/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.02	+18 16.9	1.876	2.644	15.9	20.7
12 13	7 52.96	+18 29.4	1.798	2.656	12.7	20.5
12 23	7 46.26	+18 50.5	1.742	2.668	8.8	20.3
1 2	7 37.53	+19 17.8	1.711	2.679	4.5	20.1
1 12	7 27.74	+19 48.1	1.708	2.691	0.8	19.8
1 22	7 18.07	+20 18.0	1.734	2.702	4.7	20.2
2 1	7 9.67	+20 45.0	1.789	2.714	8.9	20.4
2 11	7 3.46	+21 7.7	1.869	2.725	12.5	20.7

8568 Larrywilson 1 11.5 180°.91 0°.6/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.98	+21 34.7	1.597	2.373	18.0	19.0
12 13	7 57.64	+21 52.7	1.511	2.374	14.4	18.8
12 23	7 49.97	+22 18.6	1.446	2.375	10.0	18.5
1 2	7 39.56	+22 48.4	1.405	2.375	5.0	18.2
1 12	7 27.62	+23 17.3	1.392	2.375	0.7	17.9
1 22	7 15.67	+23 40.9	1.407	2.374	5.7	18.3
2 1	7 5.28	+23 57.1	1.449	2.372	10.7	18.6
2 11	6 57.67	+24 5.6	1.516	2.370	15.0	18.8

295664 2008 TT_{48} 1 11.5 167°.91 0°.0/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.17	+21 4.1	2.190	2.954	14.1	21.8
12 13	7 52.02	+21 13.3	2.098	2.955	11.2	21.6
12 23	7 45.51	+21 27.7	2.030	2.956	7.7	21.3
1 2	7 37.13	+21 45.1	1.987	2.957	3.9	21.1
1 12	7 27.76	+22 2.8	1.974	2.958	0.2	20.8
1 22	7 18.41	+22 18.2	1.991	2.958	4.3	21.1
2 1	7 10.12	+22 29.8	2.037	2.959	8.1	21.4
2 11	7 3.73	+22 37.1	2.109	2.959	11.5	21.6

280861 2005 UP_{363} 1 11.5 158°.32 1°.0/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.03	+17 43.8	1.799	2.561	16.8	21.4
12 13	7 56.33	+17 55.9	1.714	2.568	13.4	21.2
12 23	7 48.74	+18 17.5	1.650	2.574	9.4	21.0
1 2	7 38.83	+18 46.4	1.611	2.579	4.9	20.7
1 12	7 27.67	+19 18.9	1.601	2.584	1.0	20.4
1 22	7 16.54	+19 51.4	1.620	2.588	5.0	20.7
2 1	7 6.76	+20 21.0	1.668	2.591	9.5	21.0
2 11	6 59.37	+20 46.1	1.741	2.594	13.4	21.3

161287 2003 HN_{20} 1 11.5 180°.07 3°.7/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 1.93	+28 13.2	1.861	2.634	15.9	20.5
12 13	7 57.35	+29 9.8	1.775	2.635	12.7	20.3
12 23	7 49.65	+30 10.2	1.711	2.636	9.0	20.1
1 2	7 39.37	+31 7.8	1.672	2.636	5.3	19.9
1 12	7 27.63	+31 55.8	1.662	2.636	3.8	19.8
1 22	7 15.84	+32 29.1	1.682	2.635	6.6	19.9
2 1	7 5.45	+32 46.0	1.729	2.634	10.5	20.2
2 11	6 57.64	+32 47.9	1.800	2.632	14.0	20.4

383641 2007 RW_{291} 1 11.5 70°.10 0°.3/11.6 18

12 3	7 54.77	+19 53.0	2.233	2.997	13.8	21.7
12 13	7 50.76	+20 3.4	2.152	3.008	11.0	21.5
12 23	7 44.52	+20 19.6	2.093	3.019	7.6	21.3
1 2	7 36.59	+20 39.7	2.061	3.031	3.8	21.1
1 12	7 27.81	+21 0.9	2.058	3.042	0.3	20.9
1 22	7 19.11	+21 21.0	2.086	3.053	4.1	21.2
2 1	7 11.47	+21 38.0	2.142	3.064	7.7	21.4
2 11	7 5.64	+21 51.3	2.224	3.075	10.9	21.7

409950 2006 UC_{201} 1 11.5 109°.09 6°.5/ 8.9 18

12 3	8 5.03	+37 20.3	2.046	2.807	15.0	22.1
12 13	7 59.62	+38 37.9	1.981	2.826	12.3	22.0
12 23	7 51.05	+39 51.3	1.939	2.844	9.4	21.8
1 2	7 39.97	+40 52.4	1.923	2.862	7.1	21.7
1 12	7 27.62	+41 34.0	1.935	2.880	6.6	21.7
1 22	7 15.47	+41 52.5	1.976	2.897	8.3	21.9
2 1	7 4.94	+41 48.4	2.044	2.914	10.9	22.1
2 11	6 57.13	+41 25.9	2.135	2.930	13.4	22.3

113497 2002 TQ_5 1 11.5 202°.54 2°.9/12.4 18

12 3	7 59.96	+13 44.7	1.748	2.504	17.4	20.8
12 13	7 55.67	+13 38.6	1.653	2.501	14.2	20.6
12 23	7 48.42	+13 44.5	1.579	2.497	10.3	20.3
1 2	7 38.76	+14 2.1	1.530	2.492	5.9	20.1
1 12	7 27.69	+14 29.3	1.508	2.486	2.9	19.9
1 22	7 16.51	+15 3.1	1.515	2.480	5.7	20.0
2 1	7 6.58	+15 40.0	1.550	2.474	10.1	20.3
2 11	6 59.04	+16 17.0	1.611	2.466	14.1	20.5

68742 2002 EO_{41} 1 11.5 229°.19 3°.7/12.9 18

12 3	7 54.61	+ 9 32.7	2.484	3.213	13.5	20.7
12 13	7 50.50	+ 9 21.5	2.376	3.203	11.1	20.5
12 23	7 44.34	+ 9 20.9	2.291	3.192	8.4	20.3
1 2	7 36.56	+ 9 31.6	2.231	3.181	5.5	20.1
1 12	7 27.83	+ 9 52.9	2.200	3.169	3.7	20.0
1 22	7 18.98	+10 23.2	2.200	3.156	5.0	20.0
2 1	7 10.90	+11 0.0	2.228	3.144	7.9	20.2
2 11	7 4.35	+11 40.6	2.284	3.131	10.9	20.4

413576 2005 UZ_2 1 11.5 73°.48 0°.0/11.4 18

12 3	7 59.54	+22 25.3	1.814	2.586	16.2	20.7
12 13	7 55.04	+22 13.7	1.736	2.597	12.9	20.5
12 23	7 47.73	+22 5.8	1.679	2.608	8.9	20.3
1 2	7 38.26	+21 59.3	1.648	2.618	4.5	20.1
1 12	7 27.74	+21 52.0	1.646	2.629	0.2	19.7
1 22	7 17.44	+21 42.3	1.672	2.640	4.9	20.1
2 1	7 8.57	+21 29.8	1.726	2.650	9.2	20.4
2 11	7 2.08	+21 15.1	1.806	2.661	12.9	20.7

330433 2007 DY_{12} 1 11.5 67°.35 6°.6/ 9.7 18

12 3	8 3.47	+38 34.7	1.910	2.678	15.7	20.4
12 13	7 58.63	+39 19.3	1.836	2.684	12.9	20.2
12 23	7 50.47	+39 57.7	1.783	2.691	9.9	20.0
1 2	7 39.72	+40 22.4	1.755	2.697	7.4	19.9
1 12	7 27.66	+40 27.1	1.754	2.704	6.7	19.9
1 22	7 15.87	+40 9.3	1.780	2.710	8.4	20.0
2 1	7 5.84	+39 30.6	1.833	2.717	11.2	20.2
2 11	6 58.66	+38 36.2	1.910	2.724	14.1	20.4

14452 1992 WB_9 1 11.5 38°.17 0°.8/11.2 18 R

12 3	7 55.35	+23 7.9	2.044	2.818	14.6	18.3
12 13	7 51.55	+23 21.5	1.961	2.823	11.6	18.1
12 23	7 45.26	+23 39.4	1.900	2.829	8.0	17.9
1 2	7 37.04	+23 58.6	1.865	2.835	4.0	17.7
1 12	7 27.81	+24 16.0	1.859	2.842	0.9	17.5
1 22	7 18.68	+24 28.8	1.882	2.848	4.6	17.7
2 1	7 10.71	+24 35.8	1.933	2.855	8.5	18.0
2 11	7 4.79	+24 37.0	2.010	2.862	11.9	18.2

414847 2010 VN_{49} 1 11.5 87°.61 6°.8/ 9.3 17

12 3	8 5.20	+37 40.0	1.886	2.652	15.9	21.5
12 13	7 59.93	+38 49.7	1.826	2.674	13.0	21.3
12 23	7 51.32	+39 54.2	1.787	2.695	9.9	21.2
1 2	7 40.11	+40 45.0	1.775	2.715	7.5	21.1
1 12	7 27.65	+41 15.1	1.789	2.736	6.9	21.1
1 22	7 15.52	+41 21.3	1.832	2.756	8.6	21.2
2 1	7 5.21	+41 4.8	1.900	2.776	11.3	21.4
2 11	6 57.81	+40 30.7	1.993	2.796	13.9	21.6

137167 1999 GC_3 1 11.5 188°.96 0°.1/11.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 54.22	+20 20.1	3.004	3.752	11.0	21.6
12 13	7 49.80	+20 30.6	2.903	3.751	8.7	21.5
12 23	7 43.63	+20 45.3	2.827	3.750	6.0	21.3
1 2	7 36.12	+21 2.4	2.779	3.748	3.0	21.1
1 12	7 27.88	+21 20.1	2.762	3.745	0.2	20.8
1 22	7 19.63	+21 36.6	2.777	3.743	3.3	21.1
2 1	7 12.09	+21 50.7	2.822	3.740	6.3	21.3
2 11	7 5.90	+22 1.6	2.894	3.736	9.0	21.5

466376 2013 RN_{93} 1 11.5 72°.81 4°.9/ 9.9 18

12 3	8 0.24	+34 45.4	2.107	2.876	14.4	21.7
12 13	7 55.58	+35 24.9	2.033	2.886	11.6	21.6
12 23	7 48.10	+36 1.1	1.980	2.897	8.6	21.4
1 2	7 38.46	+36 28.1	1.954	2.907	5.8	21.2
1 12	7 27.75	+36 40.8	1.956	2.918	5.0	21.2
1 22	7 17.24	+36 36.8	1.987	2.928	6.8	21.3
2 1	7 8.16	+36 16.7	2.045	2.939	9.7	21.5
2 11	7 1.46	+35 43.5	2.128	2.949	12.5	21.7

339536 2005 JU_{26} 1 11.5 202°.01 1°.6/12.2 17

12 3	7 53.30	+15 13.9	2.682	3.427	12.2	21.9
12 13	7 49.28	+15 17.4	2.582	3.425	9.8	21.7
12 23	7 43.39	+15 28.3	2.505	3.422	7.0	21.5
1 2	7 36.04	+15 45.7	2.456	3.419	3.9	21.3
1 12	7 27.89	+16 8.2	2.436	3.416	1.6	21.1
1 22	7 19.70	+16 33.6	2.447	3.412	3.8	21.3
2 1	7 12.27	+17 0.2	2.488	3.409	6.9	21.5
2 11	7 6.29	+17 26.2	2.556	3.405	9.8	21.6

83569 2001 SZ_{219} 1 11.5 260°.30 0°.3/11.3 18

12 3	7 54.36	+21 34.5	2.492	3.253	12.6	20.1
12 13	7 50.43	+21 51.2	2.387	3.242	10.1	19.9
12 23	7 44.37	+22 12.8	2.304	3.230	7.0	19.7
1 2	7 36.60	+22 37.1	2.249	3.219	3.5	19.4
1 12	7 27.86	+23 1.4	2.224	3.207	0.4	19.2
1 22	7 19.01	+23 23.1	2.229	3.195	4.0	19.4
2 1	7 11.00	+23 40.5	2.263	3.183	7.5	19.6
2 11	7 4.62	+23 52.8	2.324	3.171	10.7	19.8

212881 2007 VC_{235} 1 11.5 343°.45 2°.4/12.2 18

12 3	7 52.62	+15 21.4	2.118	2.880	14.5	20.5
12 13	7 49.29	+15 3.8	2.024	2.875	11.7	20.3
12 23	7 43.67	+14 54.1	1.951	2.871	8.4	20.1
1 2	7 36.26	+14 52.2	1.903	2.867	4.8	19.9
1 12	7 27.88	+14 57.0	1.884	2.863	2.4	19.7
1 22	7 19.48	+15 7.0	1.894	2.859	4.7	19.9
2 1	7 12.05	+15 20.5	1.932	2.856	8.3	20.1
2 11	7 6.44	+15 35.6	1.995	2.854	11.7	20.3

52721 1998 FH_{148} 1 11.5 358°.53 0°.2/11.4 18

12 3	7 52.00	+20 30.1	1.851	2.635	15.6	19.3
12 13	7 49.25	+20 49.4	1.765	2.632	12.4	19.1
12 23	7 43.90	+21 16.4	1.699	2.630	8.6	18.8
1 2	7 36.46	+21 48.3	1.659	2.629	4.3	18.6
1 12	7 27.87	+22 21.6	1.646	2.629	0.3	18.3
1 22	7 19.28	+22 52.5	1.661	2.630	4.8	18.6
2 1	7 11.84	+23 18.4	1.704	2.631	9.1	18.9
2 11	7 6.53	+23 38.1	1.772	2.633	12.8	19.1

253100 2002 TA_{339} 1 11.5 137°.57 3°.5/12.9 18

12 3	7 56.76	+10 44.8	1.989	2.734	15.9	21.3
12 13	7 52.59	+10 42.0	1.904	2.741	13.0	21.2
12 23	7 45.96	+10 52.1	1.839	2.749	9.6	20.9
1 2	7 37.41	+11 15.2	1.800	2.756	5.9	20.7
1 12	7 27.83	+11 49.5	1.789	2.762	3.5	20.6
1 22	7 18.28	+12 32.1	1.807	2.769	5.3	20.7
2 1	7 9.84	+13 19.4	1.853	2.774	8.8	21.0
2 11	7 3.38	+14 7.7	1.926	2.780	12.3	21.2

327239 2005 SN_{18} 1 11.5 42°.29 3°.9/10.4 18

12 3	7 59.14	+29 51.9	1.664	2.451	16.9	20.5
12 13	7 55.31	+30 26.2	1.592	2.460	13.5	20.2
12 23	7 48.25	+31 0.9	1.541	2.470	9.6	20.0
1 2	7 38.65	+31 30.0	1.515	2.479	5.6	19.8
1 12	7 27.77	+31 47.6	1.515	2.490	3.9	19.7
1 22	7 17.10	+31 50.5	1.544	2.500	6.7	19.9
2 1	7 8.10	+31 38.7	1.598	2.511	10.6	20.2
2 11	7 1.85	+31 14.8	1.677	2.522	14.2	20.4

302900 2003 QD_{37} 1 11.5 46°.64 4°.2/10.6 18

12 3	8 2.11	+29 50.2	1.313	2.113	19.9	20.4
12 13	7 58.24	+30 21.8	1.258	2.133	15.9	20.2
12 23	7 50.49	+30 53.4	1.221	2.153	11.2	20.0
1 2	7 39.77	+31 17.6	1.208	2.174	6.5	19.8
1 12	7 27.71	+31 27.7	1.220	2.196	4.3	19.7
1 22	7 16.19	+31 20.8	1.259	2.218	7.5	20.0
2 1	7 6.91	+30 58.1	1.322	2.240	11.9	20.3
2 11	7 0.99	+30 23.9	1.408	2.263	15.9	20.6

3440 Stampfer 1 11.5 150°.17 3°.2/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 54.63	+11 18.4	2.189	2.932	14.7	17.5
12 13	7 50.72	+11 12.7	2.098	2.935	12.0	17.3
12 23	7 44.58	+11 18.3	2.028	2.938	8.8	17.1
1 2	7 36.70	+11 35.1	1.985	2.941	5.4	16.9
1 12	7 27.88	+12 1.9	1.969	2.943	3.3	16.7
1 22	7 19.05	+12 36.3	1.984	2.946	4.9	16.9
2 1	7 11.19	+13 15.4	2.027	2.948	8.2	17.1
2 11	7 5.09	+13 56.2	2.096	2.950	11.4	17.3

256215 2006 VH_{117} 1 11.5 130°.05 3°.4/10.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.74	+28 49.6	2.050	2.819	14.8	21.1
12 13	7 55.97	+29 37.9	1.971	2.829	11.7	20.9
12 23	7 48.41	+30 28.0	1.915	2.839	8.3	20.8
1 2	7 38.67	+31 14.2	1.886	2.849	4.8	20.6
1 12	7 27.77	+31 51.1	1.885	2.858	3.4	20.5
1 22	7 16.97	+32 14.8	1.914	2.867	6.0	20.7
2 1	7 7.48	+32 24.3	1.971	2.876	9.4	20.9
2 11	7 0.31	+32 21.3	2.054	2.884	12.6	21.1

322063 2010 VO_{88} 1 11.5 163°.14 0°.9/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.39	+22 58.9	2.041	2.808	14.8	21.2
12 13	7 54.02	+23 16.8	1.952	2.811	11.8	21.0
12 23	7 47.04	+23 39.4	1.886	2.813	8.2	20.8
1 2	7 37.98	+24 3.5	1.846	2.815	4.1	20.5
1 12	7 27.82	+24 25.6	1.835	2.817	0.9	20.3
1 22	7 17.68	+24 42.5	1.853	2.819	4.8	20.6
2 1	7 8.73	+24 52.8	1.901	2.820	8.8	20.8
2 11	7 1.92	+24 56.5	1.974	2.821	12.3	21.1

171200 2005 JJ_{48} 1 11.5 268°.57 3°.5/ 9.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.83	+29 16.8	2.368	3.137	13.0	20.2
12 13	7 51.94	+30 20.2	2.274	3.132	10.4	20.0
12 23	7 45.62	+31 26.4	2.204	3.127	7.4	19.8
1 2	7 37.32	+32 30.2	2.161	3.122	4.6	19.6
1 12	7 27.86	+33 26.0	2.147	3.117	3.7	19.6
1 22	7 18.27	+34 9.6	2.164	3.112	5.8	19.7
2 1	7 9.63	+34 38.8	2.209	3.106	8.9	19.9
2 11	7 2.91	+34 54.0	2.279	3.101	11.8	20.1

90551 2004 FR_{121} 1 11.5 70°.32 12°.1/19.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.46	−19 45.2	2.643	3.204	16.0	19.9
12 13	7 47.93	−20 53.9	2.562	3.205	15.0	19.8
12 23	7 42.51	−21 40.8	2.497	3.205	13.9	19.7
1 2	7 35.64	−22 0.8	2.449	3.206	12.9	19.6
1 12	7 27.96	−21 50.8	2.422	3.206	12.2	19.6
1 22	7 20.25	−21 10.2	2.417	3.207	12.1	19.6
2 1	7 13.31	−20 1.5	2.434	3.207	12.5	19.6
2 11	7 7.83	−18 29.9	2.473	3.208	13.4	19.7

217782 2000 ST_{58} 1 11.5 83°.35 1°.9/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.99	+15 42.3	1.989	2.745	15.6	21.0
12 13	7 53.39	+15 41.4	1.919	2.768	12.4	20.9
12 23	7 46.37	+15 49.6	1.871	2.791	8.8	20.7
1 2	7 37.54	+16 5.5	1.848	2.813	4.8	20.5
1 12	7 27.86	+16 27.0	1.855	2.835	1.9	20.3
1 22	7 18.39	+16 51.2	1.891	2.857	4.6	20.6
2 1	7 10.17	+17 16.1	1.955	2.879	8.3	20.8
2 11	7 4.00	+17 39.6	2.046	2.900	11.7	21.1

485040 2010 AH_{27} 1 11.5 316°.95 0°.0/11.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.46	+22 27.8	1.251	2.058	20.3	20.8
12 13	7 54.41	+22 12.6	1.159	2.039	16.5	20.5
12 23	7 48.49	+22 2.6	1.084	2.021	11.6	20.1
1 2	7 39.17	+21 55.4	1.031	2.003	5.9	19.7
1 12	7 27.76	+21 47.6	1.003	1.986	0.3	19.3
1 22	7 16.07	+21 36.5	0.999	1.970	6.7	19.7
2 1	7 6.11	+21 21.3	1.020	1.954	12.7	20.0
2 11	6 59.47	+21 2.8	1.062	1.940	18.1	20.2

287479 2003 AS_{80} 1 11.5 354°.65 10°.2/ 6.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.40	+42 33.3	1.805	2.573	16.5	20.0
12 13	7 59.76	+44 46.6	1.734	2.572	14.0	19.8
12 23	7 52.15	+46 55.7	1.685	2.572	11.7	19.7
1 2	7 41.01	+48 48.2	1.661	2.571	10.3	19.6
1 12	7 27.65	+50 12.3	1.663	2.571	10.5	19.6
1 22	7 13.97	+51 1.4	1.691	2.571	12.1	19.7
2 1	7 2.06	+51 15.1	1.742	2.571	14.4	19.9
2 11	6 53.59	+50 59.1	1.813	2.571	16.8	20.0

391445 2007 EU_{195} 1 11.5 160°.66 1°.4/10.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.19	+27 24.5	4.042	4.793	8.3	22.0
12 13	7 47.02	+27 49.2	3.949	4.798	6.6	21.9
12 23	7 41.51	+28 14.4	3.881	4.803	4.5	21.7
1 2	7 35.02	+28 38.2	3.842	4.808	2.5	21.6
1 12	7 28.00	+28 58.5	3.835	4.812	1.5	21.5
1 22	7 21.00	+29 14.0	3.859	4.816	3.1	21.7
2 1	7 14.54	+29 24.0	3.914	4.819	5.1	21.8
2 11	7 9.10	+29 28.4	3.997	4.823	7.1	21.9

181177 2005 SV_{73} 1 11.5 45°.48 2°.8/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 57.17	+31 1.9	2.537	3.301	12.4	20.0
12 13	7 52.55	+31 11.5	2.450	3.305	9.9	19.8
12 23	7 45.72	+31 19.0	2.387	3.309	7.0	19.6
1 2	7 37.21	+31 21.2	2.350	3.313	4.1	19.4
1 12	7 27.88	+31 15.3	2.343	3.317	2.8	19.3
1 22	7 18.69	+30 59.9	2.367	3.322	4.8	19.5
2 1	7 10.56	+30 35.3	2.419	3.326	7.8	19.7
2 11	7 4.27	+30 3.2	2.498	3.331	10.5	19.9

324445 2006 TW_{75} 1 11.5 30°.33 5°.3/10.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.30	+32 1.4	1.411	2.210	18.8	20.4
12 13	7 56.07	+32 45.6	1.347	2.221	15.1	20.2
12 23	7 49.10	+33 28.7	1.303	2.232	10.9	20.0
1 2	7 39.17	+34 2.7	1.282	2.244	6.9	19.8
1 12	7 27.77	+34 20.3	1.287	2.257	5.4	19.8
1 22	7 16.71	+34 17.9	1.318	2.271	8.2	19.9
2 1	7 7.68	+33 56.3	1.374	2.285	12.1	20.2
2 11	7 1.87	+33 20.0	1.451	2.300	15.9	20.5

50141 2000 AW_{129} 1 11.5 74°.33 2°.9/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.86	+13 37.6	1.370	2.147	20.4	18.8
12 13	7 55.99	+13 39.5	1.307	2.166	16.4	18.5
12 23	7 48.76	+13 57.1	1.261	2.185	11.7	18.3
1 2	7 38.93	+14 28.9	1.239	2.204	6.6	18.1
1 12	7 27.80	+15 11.4	1.243	2.223	2.9	17.9
1 22	7 16.95	+15 59.3	1.274	2.242	6.1	18.2
2 1	7 7.89	+16 47.9	1.331	2.260	10.8	18.5
2 11	7 1.70	+17 33.4	1.412	2.279	15.1	18.8

333067 2011 UE_{27} 1 11.5 24°.26 0°.6/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.94	+19 2.6	1.255	2.059	20.4	21.0
12 13	7 52.63	+19 12.9	1.189	2.068	16.3	20.7
12 23	7 46.76	+19 34.8	1.141	2.077	11.3	20.5
1 2	7 38.04	+20 5.3	1.115	2.087	5.7	20.2
1 12	7 27.85	+20 39.5	1.114	2.098	0.6	19.9
1 22	7 17.85	+21 12.5	1.139	2.110	6.1	20.3
2 1	7 9.69	+21 40.7	1.189	2.122	11.4	20.6
2 11	7 4.56	+22 2.3	1.261	2.136	16.0	20.9

488689 2003 WY_{14} 1 11.5 95°.03 0°.2/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.92	+20 2.2	1.776	2.543	16.7	21.6
12 13	7 56.12	+20 14.2	1.706	2.564	13.3	21.4
12 23	7 48.49	+20 33.4	1.657	2.584	9.2	21.2
1 2	7 38.69	+20 56.9	1.634	2.604	4.6	20.9
1 12	7 27.85	+21 21.0	1.640	2.623	0.3	20.6
1 22	7 17.26	+21 42.4	1.675	2.642	4.9	21.0
2 1	7 8.15	+21 59.4	1.738	2.661	9.2	21.3
2 11	7 1.47	+22 11.2	1.826	2.679	12.9	21.6

74497 1999 CG_{137} 1 11.5 50°.94 3°.7/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.88	+ 9 4.7	2.079	2.823	15.3	18.8
12 13	7 49.41	+ 9 9.0	1.997	2.833	12.6	18.6
12 23	7 43.71	+ 9 27.3	1.937	2.843	9.3	18.4
1 2	7 36.29	+ 9 59.6	1.901	2.854	6.0	18.2
1 12	7 27.98	+10 44.2	1.893	2.865	3.8	18.1
1 22	7 19.71	+11 37.6	1.915	2.876	5.2	18.2
2 1	7 12.45	+12 36.0	1.965	2.887	8.4	18.4
2 11	7 6.99	+13 35.4	2.041	2.898	11.5	18.7

432827 2011 HP_{9} 1 11.5 161°.98 4°.3/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.27	+ 6 51.5	2.574	3.294	13.3	21.3
12 13	7 49.27	+ 6 36.9	2.480	3.297	11.0	21.2
12 23	7 43.40	+ 6 34.1	2.408	3.300	8.5	21.0
1 2	7 36.08	+ 6 43.8	2.362	3.303	5.9	20.8
1 12	7 27.99	+ 7 5.6	2.345	3.305	4.3	20.7
1 22	7 19.90	+ 7 37.9	2.357	3.308	5.2	20.8
2 1	7 12.59	+ 8 18.2	2.399	3.309	7.6	20.9
2 11	7 6.73	+ 9 3.4	2.467	3.311	10.3	21.1

91254 1999 CB_{79} 1 11.5 342°.07 3°.3/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.28	+28 39.7	1.359	2.158	19.4	19.3
12 13	7 57.10	+28 52.1	1.278	2.154	15.6	19.1
12 23	7 50.05	+29 5.3	1.216	2.150	11.0	18.8
1 2	7 39.80	+29 13.4	1.177	2.146	6.1	18.5
1 12	7 27.79	+29 10.5	1.164	2.143	3.4	18.3
1 22	7 15.87	+28 53.2	1.177	2.141	7.2	18.5
2 1	7 5.90	+28 22.4	1.215	2.138	12.2	18.8
2 11	6 59.27	+27 41.7	1.275	2.137	16.7	19.1

402726 2006 WR_{86} 1 11.5 40°.17 3°.6/12.3 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.42	+15 9.4	1.332	2.117	20.4	20.4
12 13	7 54.70	+14 30.4	1.279	2.143	16.4	20.2
12 23	7 47.72	+14 3.5	1.244	2.169	11.7	20.0
1 2	7 38.32	+13 48.8	1.232	2.196	6.8	19.8
1 12	7 27.89	+13 45.3	1.246	2.224	3.6	19.7
1 22	7 17.94	+13 50.8	1.286	2.252	6.3	19.9
2 1	7 9.86	+14 2.7	1.352	2.281	10.7	20.2
2 11	7 4.58	+14 18.1	1.441	2.310	14.7	20.5

425702 2011 BF_6 1 11.5 352°.90 0°.4/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 55.13	+18 26.0	1.896	2.668	15.7	21.5
12 13	7 51.67	+18 52.1	1.807	2.667	12.5	21.3
12 23	7 45.57	+19 27.9	1.739	2.666	8.7	21.0
1 2	7 37.35	+20 10.9	1.697	2.666	4.4	20.8
1 12	7 27.93	+20 56.9	1.682	2.666	0.4	20.4
1 22	7 18.46	+21 41.9	1.697	2.666	4.8	20.8
2 1	7 10.13	+22 22.4	1.740	2.665	9.0	21.0
2 11	7 3.93	+22 56.4	1.809	2.665	12.8	21.3

327938 2007 EX_5 1 11.5 206°.21 0°.9/11.2 16

12 3	7 57.85	+23 35.2	2.397	3.156	13.1	22.1
12 13	7 53.27	+23 51.2	2.297	3.151	10.4	21.9
12 23	7 46.37	+24 10.7	2.221	3.147	7.2	21.7
1 2	7 37.65	+24 30.9	2.172	3.141	3.6	21.4
1 12	7 27.92	+24 48.9	2.153	3.136	1.0	21.2
1 22	7 18.15	+25 2.1	2.165	3.129	4.3	21.4
2 1	7 9.34	+25 9.2	2.206	3.123	7.9	21.6
2 11	7 2.35	+25 10.3	2.274	3.116	11.1	21.8

67971 2000 XP_1 1 11.5 74°.30 0°.7/11.3 17

12 3	8 1.05	+21 23.9	1.544	2.324	18.3	19.3
12 13	7 56.67	+21 49.1	1.481	2.347	14.5	19.1
12 23	7 49.09	+22 22.0	1.438	2.369	9.9	18.9
1 2	7 39.05	+22 58.4	1.420	2.391	4.9	18.7
1 12	7 27.85	+23 32.9	1.430	2.413	0.8	18.4
1 22	7 16.97	+24 1.5	1.467	2.434	5.5	18.8
2 1	7 7.81	+24 21.9	1.532	2.456	10.1	19.1
2 11	7 1.41	+24 34.2	1.621	2.477	14.0	19.4

457163 2008 GJ_{38} 1 11.5 309°.92 1°.3/11.9 17

12 3	7 53.92	+17 33.5	1.612	2.396	17.5	21.3
12 13	7 51.47	+17 36.9	1.506	2.372	14.2	21.0
12 23	7 45.96	+17 51.0	1.419	2.348	10.1	20.7
1 2	7 37.78	+18 14.8	1.356	2.325	5.4	20.3
1 12	7 27.90	+18 45.3	1.319	2.302	1.3	20.0
1 22	7 17.66	+19 18.7	1.309	2.279	5.6	20.2
2 1	7 8.56	+19 51.5	1.326	2.256	10.8	20.5
2 11	7 1.94	+20 21.1	1.366	2.235	15.4	20.7

159220 2005 WF_{87} 1 11.5 54°.98 0°.5/11.3 18

12 3	7 56.46	+21 47.0	1.875	2.651	15.7	20.7
12 13	7 52.69	+22 5.2	1.794	2.658	12.4	20.5
12 23	7 46.22	+22 29.5	1.735	2.664	8.6	20.3
1 2	7 37.64	+22 56.8	1.701	2.671	4.3	20.1
1 12	7 27.94	+23 23.3	1.695	2.678	0.6	19.8
1 22	7 18.33	+23 45.8	1.718	2.685	4.9	20.1
2 1	7 9.98	+24 2.3	1.769	2.693	9.0	20.4
2 11	7 3.86	+24 12.2	1.845	2.700	12.7	20.6

501914 2014 WY_{478} 1 11.5 221°.06 1°.3/11.9 17

12 3	7 56.19	+18 2.4	2.801	3.544	11.8	21.6
12 13	7 51.48	+17 42.1	2.694	3.537	9.5	21.4
12 23	7 44.89	+17 25.6	2.611	3.528	6.7	21.2
1 2	7 36.84	+17 12.5	2.555	3.520	3.6	21.0
1 12	7 27.99	+17 2.0	2.530	3.511	1.3	20.8
1 22	7 19.12	+16 53.4	2.537	3.502	3.7	21.0
2 1	7 11.02	+16 46.0	2.574	3.492	6.8	21.2
2 11	7 4.38	+16 39.4	2.638	3.482	9.7	21.3

296203 2009 BY_{188} 1 11.5 305°.95 9°.8/17.3 18

12 3	7 51.13	−10 16.4	2.397	3.037	16.0	20.5
12 13	7 47.88	−10 47.0	2.299	3.028	14.4	20.3
12 23	7 42.63	−10 56.1	2.217	3.019	12.6	20.2
1 2	7 35.79	−10 39.6	2.157	3.010	11.0	20.0
1 12	7 28.04	− 9 55.3	2.120	3.001	9.9	20.0
1 22	7 20.19	− 8 44.2	2.109	2.993	9.9	19.9
2 1	7 13.10	− 7 10.0	2.125	2.985	11.0	20.0
2 11	7 7.53	− 5 19.2	2.165	2.976	12.7	20.1

364689 2007 TV_{450} 1 11.5 346°.53 5°.2/10.2 18

12 3	7 55.36	+30 16.3	1.268	2.082	19.7	20.4
12 13	7 53.65	+31 1.6	1.190	2.073	15.9	20.1
12 23	7 47.97	+31 49.3	1.130	2.065	11.5	19.8
1 2	7 38.90	+32 31.4	1.093	2.058	7.1	19.6
1 12	7 27.87	+32 59.1	1.079	2.053	5.3	19.5
1 22	7 16.81	+33 6.6	1.090	2.048	8.7	19.6
2 1	7 7.71	+32 53.2	1.125	2.045	13.4	19.9
2 11	7 2.08	+32 22.6	1.181	2.043	17.8	20.1

446944 2003 FF_{32} 1 11.5 332°.62 4°.9/10.4 18

12 3	7 56.88	+29 49.0	1.221	2.034	20.3	20.6
12 13	7 55.09	+30 26.4	1.139	2.022	16.5	20.3
12 23	7 49.14	+31 6.3	1.075	2.010	11.9	20.0
1 2	7 39.56	+31 41.1	1.032	2.000	7.1	19.7
1 12	7 27.84	+32 1.8	1.014	1.990	5.0	19.5
1 22	7 15.99	+32 2.7	1.020	1.981	8.7	19.7
2 1	7 6.18	+31 43.0	1.050	1.973	13.8	20.0
2 11	7 0.01	+31 7.0	1.100	1.966	18.5	20.2

520651 2014 PZ_{77} 1 11.5 97°.84 2°.0/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 56.53	+13 21.7	1.907	2.663	16.1	21.6
12 13	7 52.57	+13 47.8	1.826	2.674	13.0	21.4
12 23	7 46.06	+14 27.2	1.767	2.685	9.3	21.2
1 2	7 37.55	+15 18.1	1.733	2.697	5.1	21.0
1 12	7 27.96	+16 16.9	1.727	2.707	2.0	20.8
1 22	7 18.42	+17 19.0	1.751	2.718	4.8	21.0
2 1	7 10.04	+18 19.9	1.804	2.729	8.8	21.3
2 11	7 3.74	+19 16.3	1.883	2.739	12.4	21.5

116220 2003 YO_2 1 11.5 211°.59 1°.1/11.8 18

12 3	8 0.95	+18 32.3	1.541	2.317	18.5	20.4
12 13	7 56.98	+18 31.1	1.452	2.313	14.9	20.2
12 23	7 49.66	+18 39.2	1.382	2.309	10.5	19.9
1 2	7 39.56	+18 54.8	1.336	2.305	5.5	19.6
1 12	7 27.86	+19 14.5	1.318	2.300	1.1	19.3
1 22	7 16.08	+19 34.8	1.327	2.295	5.7	19.6
2 1	7 5.80	+19 53.1	1.363	2.290	10.9	19.9
2 11	6 58.31	+20 8.0	1.423	2.284	15.4	20.1

466945 2016 AX_{126} 1 11.5 333°.28 0°.9/11.1 18

12 3	7 53.49	+19 12.8	1.617	2.405	17.3	20.4
12 13	7 51.07	+20 9.5	1.525	2.395	13.8	20.1
12 23	7 45.61	+21 20.3	1.453	2.386	9.6	19.8
1 2	7 37.58	+22 40.8	1.406	2.377	4.8	19.5
1 12	7 27.96	+24 4.2	1.386	2.369	1.0	19.2
1 22	7 18.11	+25 23.3	1.395	2.362	5.7	19.5
2 1	7 9.49	+26 32.2	1.430	2.355	10.6	19.8
2 11	7 3.36	+27 27.8	1.489	2.349	14.9	20.0

201925 2004 CT_{83} 1 11.5 44°.53 4°.5/10.7 18

12 3	8 2.97	+34 21.2	1.818	2.592	16.2	19.2
12 13	7 57.84	+34 34.4	1.759	2.616	12.9	19.1
12 23	7 49.64	+34 42.4	1.721	2.641	9.4	18.9
1 2	7 39.22	+34 39.8	1.708	2.666	6.0	18.8
1 12	7 27.90	+34 22.7	1.723	2.691	4.6	18.7
1 22	7 17.10	+33 50.2	1.766	2.717	6.7	18.9
2 1	7 8.11	+33 4.5	1.837	2.743	9.9	19.2
2 11	7 1.80	+32 10.1	1.933	2.769	13.0	19.4

321792 2010 PS_1 1 11.5 143°.24 0°.9/11.8 18

12 3	7 59.54	+17 57.7	2.089	2.843	15.0	21.5
12 13	7 54.73	+18 8.9	2.004	2.854	11.9	21.3
12 23	7 47.43	+18 27.9	1.942	2.864	8.3	21.1
1 2	7 38.20	+18 52.8	1.906	2.873	4.3	20.9
1 12	7 27.95	+19 20.4	1.900	2.882	0.9	20.6
1 22	7 17.78	+19 47.9	1.923	2.891	4.4	20.9
2 1	7 8.77	+20 13.1	1.977	2.898	8.3	21.2
2 11	7 1.79	+20 34.5	2.056	2.905	11.8	21.4

156211 2001 UR_{59} 1 11.5 50°.08 5°.0/12.8 18

12 3	7 57.73	+11 46.9	1.360	2.136	20.5	19.7
12 13	7 54.41	+11 6.1	1.290	2.146	16.8	19.5
12 23	7 47.78	+10 39.8	1.238	2.156	12.4	19.3
1 2	7 38.53	+10 29.7	1.209	2.167	7.9	19.0
1 12	7 27.95	+10 35.7	1.205	2.178	5.0	18.9
1 22	7 17.55	+10 55.3	1.227	2.189	7.2	19.1
2 1	7 8.84	+11 24.8	1.274	2.201	11.5	19.3
2 11	7 2.94	+11 59.9	1.344	2.213	15.6	19.6

146359 2001 PG_4 1 11.5 71°.39 2°.4/10.7 18

12 3	8 1.26	+25 39.6	1.721	2.499	16.8	19.7
12 13	7 56.59	+26 17.9	1.660	2.524	13.3	19.5
12 23	7 48.91	+26 59.9	1.621	2.549	9.1	19.3
1 2	7 38.95	+27 40.1	1.606	2.575	4.8	19.1
1 12	7 27.94	+28 13.0	1.620	2.600	2.4	19.0
1 22	7 17.25	+28 34.9	1.663	2.625	5.7	19.3
2 1	7 8.20	+28 45.0	1.733	2.649	9.7	19.5
2 11	7 1.73	+28 44.5	1.828	2.674	13.2	19.8

51529 2001 FB_{128} 1 11.5 148°.33 3°.5/ 9.8 18

12 3	7 58.91	+32 51.5	2.868	3.621	11.3	19.4
12 13	7 53.77	+33 33.2	2.784	3.630	9.1	19.2
12 23	7 46.54	+34 13.4	2.725	3.640	6.6	19.1
1 2	7 37.69	+34 47.7	2.694	3.648	4.3	18.9
1 12	7 28.00	+35 12.5	2.693	3.656	3.6	18.9
1 22	7 18.38	+35 25.4	2.723	3.664	5.2	19.0
2 1	7 9.70	+35 26.0	2.782	3.671	7.6	19.2
2 11	7 2.73	+35 15.8	2.868	3.678	9.9	19.4

329055 2011 AN_{60} 1 11.5 83°.17 1°.2/12.0 18

12 3	7 55.24	+16 22.0	1.986	2.749	15.3	20.7
12 13	7 51.57	+16 41.4	1.898	2.752	12.3	20.5
12 23	7 45.41	+17 11.0	1.832	2.755	8.6	20.3
1 2	7 37.27	+17 49.1	1.791	2.758	4.6	20.1
1 12	7 28.04	+18 32.3	1.779	2.761	1.2	19.8
1 22	7 18.79	+19 16.8	1.797	2.765	4.6	20.1
2 1	7 10.63	+19 59.4	1.842	2.768	8.6	20.3
2 11	7 4.48	+20 37.6	1.914	2.771	12.2	20.6

345153 2005 SP_{129} 1 11.5 330°.07 5°.6/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 0.60	+30 50.9	1.358	2.158	19.4	20.1
12 13	7 57.64	+31 47.5	1.279	2.154	15.7	19.9
12 23	7 50.66	+32 46.6	1.220	2.150	11.4	19.6
1 2	7 40.26	+33 39.5	1.184	2.147	7.2	19.4
1 12	7 27.88	+34 16.6	1.173	2.143	5.7	19.3
1 22	7 15.46	+34 31.8	1.187	2.141	8.8	19.4
2 1	7 5.04	+34 24.2	1.227	2.138	13.3	19.7
2 11	6 58.10	+33 57.9	1.287	2.136	17.5	19.9

353764 2012 DX_{83} 1 11.5 155°.39 0°.8/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.46	+17 26.6	2.213	2.969	14.2	21.1
12 13	7 52.24	+17 45.1	2.123	2.973	11.3	20.9
12 23	7 45.71	+18 11.9	2.055	2.977	7.9	20.7
1 2	7 37.37	+18 45.0	2.014	2.981	4.1	20.5
1 12	7 28.04	+19 21.6	2.002	2.985	0.8	20.2
1 22	7 18.70	+19 58.4	2.020	2.988	4.2	20.5
2 1	7 10.36	+20 32.8	2.068	2.991	8.0	20.7
2 11	7 3.86	+21 3.1	2.143	2.993	11.3	20.9

170857 2004 FZ_{120} 1 11.5 274°.03 1°.7/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.66	+14 45.4	2.462	3.213	13.1	20.4
12 13	7 49.08	+14 56.2	2.359	3.204	10.5	20.2
12 23	7 43.47	+15 15.9	2.278	3.196	7.5	20.0
1 2	7 36.25	+15 43.8	2.224	3.187	4.2	19.7
1 12	7 28.10	+16 17.8	2.199	3.179	1.7	19.5
1 22	7 19.85	+16 55.3	2.204	3.170	4.0	19.7
2 1	7 12.39	+17 33.7	2.238	3.162	7.4	19.9
2 11	7 6.47	+18 10.9	2.300	3.153	10.6	20.1

267461 2002 EN_{94} 1 11.5 261°.17 3°.0/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.32	+11 54.6	2.127	2.875	14.9	21.0
12 13	7 50.73	+11 53.4	2.025	2.866	12.2	20.8
12 23	7 44.80	+12 3.8	1.944	2.857	8.9	20.5
1 2	7 36.98	+12 25.9	1.889	2.847	5.4	20.3
1 12	7 28.06	+12 58.1	1.862	2.837	3.1	20.1
1 22	7 19.01	+13 37.8	1.864	2.828	5.0	20.2
2 1	7 10.86	+14 21.9	1.895	2.818	8.6	20.4
2 11	7 4.53	+15 7.1	1.952	2.808	12.0	20.6

43269 2000 DO_{98} 1 11.5 79°.54 1°.2/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.69	+15 26.2	2.166	2.922	14.4	18.5
12 13	7 50.84	+15 55.1	2.084	2.934	11.5	18.3
12 23	7 44.73	+16 34.4	2.024	2.945	8.1	18.1
1 2	7 36.86	+17 22.1	1.990	2.956	4.3	17.9
1 12	7 28.07	+18 14.7	1.986	2.968	1.2	17.7
1 22	7 19.32	+19 8.4	2.011	2.979	4.2	18.0
2 1	7 11.57	+19 59.7	2.066	2.990	7.9	18.2
2 11	7 5.65	+20 46.2	2.148	3.001	11.2	18.4

463288 2012 HP_{28} 1 11.5 326°.27 4°.6/13.6 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.23	+ 7 35.8	1.577	2.341	18.7	21.1
12 13	7 49.23	+ 7 51.1	1.477	2.324	15.6	20.8
12 23	7 44.35	+ 8 28.1	1.396	2.308	11.8	20.6
1 2	7 36.98	+ 9 28.4	1.337	2.293	7.7	20.3
1 12	7 28.06	+10 49.7	1.305	2.278	4.7	20.1
1 22	7 18.82	+12 26.6	1.299	2.264	6.5	20.1
2 1	7 10.68	+14 11.1	1.320	2.251	10.8	20.3
2 11	7 4.87	+15 55.5	1.365	2.238	15.1	20.6

234871 2002 SK_{28} 1 11.5 157°.27 3°.6/ 9.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.62	+31 21.9	2.643	3.403	12.0	20.5
12 13	7 53.04	+32 17.2	2.556	3.408	9.6	20.3
12 23	7 46.21	+33 12.6	2.494	3.412	6.9	20.2
1 2	7 37.62	+34 3.5	2.459	3.416	4.5	20.0
1 12	7 28.05	+34 45.2	2.454	3.420	3.7	20.0
1 22	7 18.45	+35 14.5	2.480	3.423	5.5	20.1
2 1	7 9.81	+35 30.2	2.535	3.426	8.2	20.3
2 11	7 2.94	+35 33.5	2.615	3.429	10.7	20.4

268583 2006 BU_{132} 1 11.5 297°.45 0°.9/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.26	+18 13.5	2.097	2.861	14.6	20.9
12 13	7 51.47	+18 17.9	2.005	2.860	11.7	20.7
12 23	7 45.29	+18 29.7	1.935	2.859	8.2	20.5
1 2	7 37.21	+18 47.3	1.891	2.859	4.3	20.2
1 12	7 28.08	+19 8.3	1.875	2.858	0.9	20.0
1 22	7 18.95	+19 30.0	1.889	2.857	4.4	20.2
2 1	7 10.86	+19 50.5	1.932	2.856	8.3	20.5
2 11	7 4.68	+20 8.3	2.000	2.856	11.8	20.7

326712 2003 CC_{15} 1 11.5 341°.48 0°.1/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.92	+18 51.0	1.502	2.296	18.1	20.2
12 13	7 50.78	+19 19.5	1.414	2.287	14.5	20.0
12 23	7 45.49	+20 0.4	1.345	2.279	10.2	19.7
1 2	7 37.56	+20 50.7	1.301	2.272	5.1	19.4
1 12	7 28.06	+21 45.1	1.282	2.265	0.3	19.0
1 22	7 18.41	+22 38.0	1.290	2.259	5.7	19.4
2 1	7 10.13	+23 24.7	1.324	2.255	10.7	19.7
2 11	7 4.47	+24 2.5	1.381	2.251	15.2	19.9

319565 2006 ST_{48} 1 11.5 48°.68 4°.6/13.0 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.29	+10 49.4	1.400	2.168	20.4	20.0
12 13	7 55.14	+10 26.1	1.351	2.202	16.5	19.9
12 23	7 47.91	+10 19.5	1.321	2.236	12.1	19.7
1 2	7 38.44	+10 29.6	1.314	2.271	7.5	19.5
1 12	7 28.04	+10 54.5	1.333	2.306	4.6	19.4
1 22	7 18.13	+11 30.2	1.378	2.341	6.5	19.6
2 1	7 10.00	+12 12.3	1.450	2.376	10.4	20.0
2 11	7 4.55	+12 56.1	1.546	2.411	14.1	20.3

152003 2004 JV_{21} 1 11.5 3°.16 2°.5/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.73	+16 0.8	1.543	2.325	18.2	20.1
12 13	7 51.89	+15 45.2	1.461	2.325	14.7	19.9
12 23	7 46.02	+15 40.2	1.398	2.325	10.5	19.6
1 2	7 37.71	+15 45.3	1.359	2.325	5.9	19.4
1 12	7 28.07	+15 58.8	1.346	2.326	2.5	19.1
1 22	7 18.46	+16 17.9	1.360	2.328	5.7	19.4
2 1	7 10.25	+16 39.7	1.400	2.330	10.3	19.6
2 11	7 4.55	+17 1.9	1.464	2.333	14.5	19.9

87135 2000 NU_5 1 11.5 24°.02 4°.9/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 13.22	+24 51.3	0.968	1.771	25.2	16.3
12 13	8 7.31	+21 50.9	0.913	1.789	20.2	16.1
12 23	7 56.73	+18 40.8	0.876	1.808	14.3	15.8
1 2	7 42.84	+15 28.8	0.863	1.830	8.1	15.6
1 12	7 27.84	+12 27.3	0.876	1.854	5.0	15.5
1 22	7 14.11	+ 9 49.6	0.917	1.879	9.1	15.8
2 1	7 3.51	+ 7 43.9	0.982	1.905	14.4	16.2
2 11	6 57.03	+ 6 10.8	1.069	1.933	19.0	16.5

239558 2008 SQ_{176} 1 11.5 34°.99 5°.7/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.99	+ 4 51.5	2.133	2.858	15.5	20.6
12 13	7 49.52	+ 4 28.4	2.043	2.860	13.0	20.4
12 23	7 43.86	+ 4 20.3	1.973	2.861	10.2	20.2
1 2	7 36.47	+ 4 29.0	1.927	2.862	7.4	20.0
1 12	7 28.14	+ 4 54.5	1.909	2.864	5.7	19.9
1 22	7 19.79	+ 5 34.9	1.918	2.865	6.5	20.0
2 1	7 12.37	+ 6 26.8	1.956	2.867	9.1	20.2
2 11	7 6.68	+ 7 25.8	2.019	2.869	12.0	20.3

80898 2000 DA_{54} 1 11.5 140°.49 1°.8/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.12	+15 40.6	2.122	2.873	14.9	20.2
12 13	7 53.56	+15 43.3	2.036	2.882	11.9	20.0
12 23	7 46.62	+15 54.8	1.973	2.891	8.5	19.8
1 2	7 37.84	+16 14.0	1.935	2.900	4.6	19.5
1 12	7 28.08	+16 38.6	1.927	2.908	1.8	19.4
1 22	7 18.38	+17 6.0	1.949	2.916	4.5	19.6
2 1	7 9.77	+17 33.8	2.000	2.923	8.2	19.8
2 11	7 3.10	+18 0.0	2.078	2.929	11.6	20.0

451232 2010 DL_8 1 11.5 294°.30 2°.2/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.66	+16 15.1	1.454	2.238	19.1	21.3
12 13	7 53.87	+16 8.7	1.361	2.226	15.5	21.1
12 23	7 47.74	+16 14.2	1.286	2.213	11.1	20.8
1 2	7 38.75	+16 31.0	1.234	2.201	6.1	20.4
1 12	7 28.02	+16 56.6	1.208	2.189	2.2	20.2
1 22	7 17.06	+17 27.2	1.208	2.177	6.1	20.4
2 1	7 7.50	+17 59.1	1.235	2.165	11.3	20.6
2 11	7 0.71	+18 29.5	1.284	2.154	16.1	20.9

262525 2006 UV_{312} 1 11.5 215°.41 1°.4/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.18	+17 39.1	2.065	2.822	15.0	21.3
12 13	7 53.85	+17 31.0	1.966	2.817	12.1	21.0
12 23	7 46.99	+17 30.0	1.890	2.812	8.6	20.8
1 2	7 38.10	+17 34.8	1.840	2.806	4.6	20.6
1 12	7 28.06	+17 43.7	1.818	2.800	1.4	20.3
1 22	7 17.97	+17 54.7	1.826	2.793	4.6	20.5
2 1	7 8.95	+18 6.0	1.864	2.786	8.7	20.8
2 11	7 1.94	+18 16.4	1.926	2.779	12.3	21.0

114059 2002 VW_{23} 1 11.5 98°.67 2°.0/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.25	+17 3.7	1.535	2.303	18.9	19.6
12 13	7 58.35	+16 50.5	1.467	2.323	15.1	19.4
12 23	7 50.26	+16 47.1	1.419	2.343	10.7	19.2
1 2	7 39.71	+16 52.0	1.395	2.362	5.7	18.9
1 12	7 27.99	+17 2.5	1.399	2.381	2.0	18.7
1 22	7 16.59	+17 16.1	1.431	2.399	5.6	19.0
2 1	7 6.91	+17 30.4	1.491	2.416	10.2	19.3
2 11	6 59.98	+17 43.9	1.575	2.434	14.3	19.6

188072 2001 WE_{78} 1 11.5 122°.41 0°.6/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.06	+21 39.2	2.046	2.812	14.9	21.3
12 13	7 53.74	+22 2.9	1.963	2.821	11.8	21.1
12 23	7 46.87	+22 32.7	1.902	2.829	8.1	20.9
1 2	7 38.01	+23 5.2	1.868	2.837	4.1	20.7
1 12	7 28.09	+23 36.8	1.862	2.845	0.7	20.4
1 22	7 18.24	+24 4.0	1.887	2.853	4.6	20.8
2 1	7 9.57	+24 24.9	1.940	2.861	8.5	21.0
2 11	7 2.98	+24 39.0	2.019	2.868	12.0	21.2

236155 2005 UL_{251} 1 11.5 14°.54 3°.6/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 58.26	+27 37.0	1.178	1.991	21.0	19.9
12 13	7 55.95	+28 5.4	1.110	1.994	16.8	19.6
12 23	7 49.51	+28 37.2	1.060	1.997	11.8	19.3
1 2	7 39.67	+29 5.7	1.032	2.001	6.5	19.1
1 12	7 28.01	+29 23.3	1.027	2.006	3.7	18.9
1 22	7 16.57	+29 25.3	1.048	2.012	7.8	19.2
2 1	7 7.31	+29 11.5	1.093	2.019	12.9	19.5
2 11	7 1.62	+28 45.1	1.158	2.027	17.6	19.8

402925 2007 TN_{157} 1 11.5 99°.62 1°.0/11.9 15

12 3	8 1.84	+18 14.4	1.817	2.577	16.7	22.1
12 13	7 56.75	+18 17.7	1.748	2.600	13.3	22.0
12 23	7 48.90	+18 29.1	1.700	2.623	9.2	21.8
1 2	7 38.98	+18 46.4	1.677	2.645	4.8	21.5
1 12	7 28.07	+19 6.4	1.684	2.667	1.0	21.3
1 22	7 17.42	+19 26.3	1.720	2.688	4.8	21.6
2 1	7 8.23	+19 44.1	1.785	2.708	9.0	21.9
2 11	7 1.40	+19 58.8	1.875	2.728	12.6	22.2

26046 2104 T-$_2$ 1 11.5 83°.50 0°.4/11.7 18

12 3	7 56.40	+19 53.2	2.127	2.891	14.4	19.4
12 13	7 52.23	+19 59.4	2.046	2.902	11.5	19.2
12 23	7 45.71	+20 11.6	1.987	2.913	7.9	19.0
1 2	7 37.39	+20 27.7	1.955	2.924	4.0	18.8
1 12	7 28.15	+20 45.1	1.951	2.935	0.4	18.5
1 22	7 19.01	+21 1.5	1.978	2.946	4.2	18.8
2 1	7 10.99	+21 15.1	2.033	2.956	8.0	19.1
2 11	7 4.91	+21 25.2	2.114	2.967	11.4	19.3

178623 2000 FW_{69} 1 11.5 12°.10 1°.8/12.1 18

12 3	7 53.22	+17 1.4	1.315	2.115	19.9	20.2
12 13	7 51.18	+16 57.9	1.243	2.118	16.0	20.0
12 23	7 45.78	+17 6.7	1.189	2.122	11.3	19.7
1 2	7 37.68	+17 26.5	1.158	2.127	6.0	19.4
1 12	7 28.13	+17 53.9	1.151	2.133	1.8	19.2
1 22	7 18.67	+18 24.8	1.171	2.141	5.9	19.5
2 1	7 10.88	+18 55.3	1.215	2.149	11.1	19.8
2 11	7 5.91	+19 22.8	1.281	2.159	15.6	20.1

337927 2001 XX_{243} 1 11.5 106°.04 5°.2/13.6 18

12 3	7 53.85	+ 5 14.6	2.601	3.311	13.4	20.8
12 13	7 49.65	+ 4 32.5	2.516	3.322	11.2	20.6
12 23	7 43.64	+ 4 1.5	2.453	3.333	8.8	20.5
1 2	7 36.27	+ 3 43.4	2.415	3.344	6.5	20.3
1 12	7 28.20	+ 3 38.7	2.406	3.355	5.2	20.3
1 22	7 20.20	+ 3 46.9	2.427	3.365	5.9	20.3
2 1	7 13.01	+ 4 6.2	2.476	3.375	8.0	20.5
2 11	7 7.27	+ 4 33.8	2.551	3.386	10.3	20.6

123058 2000 SZ_{300} 1 11.5 270°.37 4°.7/10.3 18

12 3	8 1.71	+30 58.0	1.607	2.392	17.5	19.5
12 13	7 57.86	+31 39.0	1.521	2.387	14.1	19.3
12 23	7 50.45	+32 20.9	1.456	2.382	10.2	19.1
1 2	7 40.08	+32 56.5	1.415	2.378	6.3	18.8
1 12	7 28.01	+33 18.5	1.401	2.373	4.7	18.7
1 22	7 15.93	+33 22.4	1.414	2.368	7.6	18.9
2 1	7 5.55	+33 7.9	1.454	2.363	11.7	19.1
2 11	6 58.19	+32 38.5	1.516	2.358	15.6	19.3

426861 2013 WG_5 1 11.5 64°.40 4°.0/13.4 18

12 3	7 53.41	+ 8 20.8	2.178	2.915	14.9	20.9
12 13	7 49.72	+ 8 20.0	2.100	2.930	12.3	20.8
12 23	7 43.90	+ 8 32.8	2.042	2.944	9.2	20.6
1 2	7 36.46	+ 8 59.3	2.010	2.959	6.0	20.4
1 12	7 28.21	+ 9 38.1	2.006	2.974	4.0	20.3
1 22	7 20.03	+10 26.1	2.031	2.989	5.2	20.4
2 1	7 12.83	+11 20.0	2.085	3.005	8.1	20.7
2 11	7 7.35	+12 15.7	2.165	3.020	11.1	20.9

370562 2003 UE_{168} 1 11.5 68°.60 3°.9/10.3 18

12 3	8 1.24	+31 24.1	2.038	2.807	14.8	21.1
12 13	7 56.24	+32 2.4	1.976	2.833	11.8	21.0
12 23	7 48.52	+32 39.1	1.937	2.859	8.4	20.8
1 2	7 38.77	+33 8.9	1.925	2.885	5.2	20.7
1 12	7 28.10	+33 26.9	1.941	2.911	3.9	20.6
1 22	7 17.76	+33 30.9	1.986	2.936	6.1	20.8
2 1	7 8.90	+33 21.2	2.059	2.962	9.2	21.0
2 11	7 2.39	+33 0.3	2.158	2.987	12.1	21.3

456349 2006 TE_{56} 1 11.5 37°.08 1°.8/11.0 16

12 3	7 57.74	+24 0.3	1.361	2.161	19.3	21.7
12 13	7 54.61	+24 27.2	1.302	2.179	15.3	21.5
12 23	7 48.00	+25 0.1	1.262	2.197	10.5	21.3
1 2	7 38.70	+25 33.8	1.246	2.217	5.3	21.0
1 12	7 28.11	+26 2.6	1.255	2.237	1.9	20.9
1 22	7 17.87	+26 22.1	1.291	2.258	6.2	21.2
2 1	7 9.52	+26 30.9	1.353	2.279	10.9	21.5
2 11	7 4.14	+26 29.9	1.437	2.301	15.0	21.8

455384 2002 VY_{45} 1 11.5 48°.52 0°.6/11.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 1.25	+18 37.6	1.348	2.134	20.2	20.8
12 13	7 56.94	+18 54.5	1.303	2.170	15.9	20.6
12 23	7 49.29	+19 22.2	1.276	2.206	10.9	20.4
1 2	7 39.19	+19 56.6	1.273	2.243	5.5	20.2
1 12	7 28.10	+20 32.6	1.297	2.280	0.6	20.0
1 22	7 17.58	+21 5.9	1.347	2.317	5.5	20.4
2 1	7 9.04	+21 33.4	1.425	2.353	10.3	20.8
2 11	7 3.41	+21 54.5	1.525	2.390	14.3	21.1

460564 2014 TV_{72} 1 11.5 172°.17 0°.8/11.8 18

12 3	7 58.83	+18 57.6	2.208	2.962	14.3	21.8
12 13	7 54.13	+18 56.1	2.116	2.965	11.4	21.6
12 23	7 47.04	+19 0.7	2.046	2.968	8.0	21.4
1 2	7 38.09	+19 9.6	2.002	2.969	4.1	21.1
1 12	7 28.14	+19 20.7	1.988	2.971	0.8	20.9
1 22	7 18.22	+19 31.9	2.005	2.972	4.3	21.2
2 1	7 9.35	+19 41.7	2.051	2.972	8.1	21.4
2 11	7 2.40	+19 49.5	2.123	2.972	11.5	21.6

502265 2015 BM_{122} 1 11.5 208°.14 0°.7/11.2 18

12 3	7 55.12	+22 4.2	2.397	3.160	13.0	21.7
12 13	7 51.15	+22 31.5	2.302	3.158	10.3	21.5
12 23	7 44.98	+23 4.1	2.230	3.156	7.1	21.3
1 2	7 37.08	+23 39.2	2.185	3.154	3.6	21.0
1 12	7 28.20	+24 13.4	2.170	3.152	0.8	20.8
1 22	7 19.27	+24 43.7	2.185	3.150	4.2	21.1
2 1	7 11.26	+25 8.1	2.229	3.148	7.7	21.3
2 11	7 4.97	+25 25.9	2.300	3.145	10.9	21.5

312536 2009 EE_{16} 1 11.5 241°.26 0°.0/11.5 18

12 3	7 58.61	+20 12.6	1.909	2.677	15.7	21.8
12 13	7 54.62	+20 30.2	1.808	2.666	12.6	21.6
12 23	7 47.81	+20 55.8	1.728	2.655	8.8	21.3
1 2	7 38.66	+21 26.6	1.674	2.643	4.5	21.0
1 12	7 28.12	+21 58.8	1.648	2.631	0.2	20.6
1 22	7 17.39	+22 28.6	1.652	2.619	5.0	21.0
2 1	7 7.78	+22 53.5	1.683	2.606	9.4	21.2
2 11	7 0.41	+23 12.2	1.740	2.593	13.4	21.4

423183 2004 JE_{48} 1 11.5 272°.58 0°.3/11.7 17

12 3	7 53.61	+19 42.9	2.523	3.282	12.6	21.7
12 13	7 49.87	+19 54.9	2.418	3.271	10.0	21.5
12 23	7 44.06	+20 12.7	2.335	3.260	7.0	21.3
1 2	7 36.61	+20 34.5	2.280	3.248	3.6	21.1
1 12	7 28.22	+20 58.0	2.254	3.237	0.3	20.8
1 22	7 19.74	+21 20.8	2.258	3.226	3.8	21.1
2 1	7 12.05	+21 41.1	2.293	3.215	7.3	21.3
2 11	7 5.93	+21 57.7	2.353	3.203	10.5	21.5

339498 2005 GC_{40} 1 11.5 240°.50 0°.9/11.2 17

12 3	7 55.35	+23 25.4	2.573	3.333	12.3	21.8
12 13	7 51.23	+23 45.8	2.469	3.324	9.8	21.6
12 23	7 45.00	+24 9.9	2.389	3.315	6.8	21.4
1 2	7 37.08	+24 35.2	2.336	3.305	3.4	21.2
1 12	7 28.20	+24 58.8	2.313	3.295	1.0	21.0
1 22	7 19.25	+25 18.1	2.321	3.285	4.0	21.2
2 1	7 11.12	+25 31.6	2.358	3.275	7.4	21.4
2 11	7 4.62	+25 38.9	2.422	3.265	10.5	21.6

363404 2003 OX_{11} 1 11.5 133°.66 17°.5/20.7 18

12 3	7 59.04	−16 8.0	1.288	1.945	26.8	20.6
12 13	7 55.88	−17 23.7	1.221	1.952	24.7	20.4
12 23	7 49.15	−18 1.2	1.166	1.958	22.3	20.3
1 2	7 39.46	−17 48.9	1.125	1.963	19.9	20.1
1 12	7 28.08	−16 39.9	1.101	1.968	18.1	20.0
1 22	7 16.66	−14 34.9	1.098	1.973	17.5	20.0
2 1	7 6.92	−11 43.6	1.116	1.978	18.5	20.1
2 11	7 0.20	− 8 22.9	1.155	1.982	20.5	20.2

503289 2015 XU_{288} 1 11.5 312°.59 0°.7/11.8 17

12 3	7 54.90	+18 29.4	1.452	2.244	18.7	21.7
12 13	7 52.60	+18 42.4	1.357	2.228	15.1	21.4
12 23	7 46.96	+19 7.2	1.281	2.213	10.7	21.1
1 2	7 38.44	+19 41.8	1.228	2.198	5.5	20.8
1 12	7 28.13	+20 22.0	1.201	2.184	0.7	20.4
1 22	7 17.54	+21 2.7	1.200	2.170	5.9	20.7
2 1	7 8.33	+21 39.8	1.225	2.156	11.3	21.0
2 11	7 1.88	+22 10.6	1.272	2.144	16.1	21.3

10511 1989 OD 1 11.5 180°.29 3°.7/10.2 18

12 3	8 0.57	+32 4.6	2.395	3.156	13.1	17.9
12 13	7 55.61	+32 39.4	2.305	3.156	10.5	17.7
12 23	7 48.12	+33 13.1	2.239	3.157	7.6	17.5
1 2	7 38.66	+33 40.7	2.199	3.157	4.8	17.3
1 12	7 28.14	+33 57.9	2.189	3.157	3.8	17.2
1 22	7 17.65	+34 2.0	2.209	3.156	5.8	17.4
2 1	7 8.30	+33 52.7	2.257	3.155	8.7	17.6
2 11	7 1.00	+33 32.0	2.332	3.154	11.6	17.7

254632 2005 JZ_{66} 1 11.5 148°.78 0°.6/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.63	+19 19.0	2.253	3.005	14.1	21.5
12 13	7 54.65	+19 22.9	2.166	3.014	11.2	21.3
12 23	7 47.33	+19 32.8	2.102	3.023	7.8	21.1
1 2	7 38.22	+19 46.6	2.064	3.032	4.0	20.8
1 12	7 28.17	+20 1.9	2.057	3.040	0.6	20.6
1 22	7 18.19	+20 16.4	2.080	3.047	4.2	20.9
2 1	7 9.30	+20 28.8	2.133	3.054	7.9	21.1
2 11	7 2.31	+20 38.2	2.213	3.060	11.2	21.3

373783 2002 TG_{350} 1 11.5 67°.46 4°.4/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.74	+ 9 25.0	2.139	2.878	15.1	20.6
12 13	7 50.78	+ 8 52.0	2.059	2.890	12.4	20.4
12 23	7 44.65	+ 8 30.2	2.001	2.903	9.4	20.2
1 2	7 36.85	+ 8 20.9	1.968	2.915	6.3	20.1
1 12	7 28.23	+ 8 23.9	1.963	2.928	4.5	20.0
1 22	7 19.71	+ 8 37.9	1.986	2.941	5.7	20.1
2 1	7 12.22	+ 9 0.8	2.038	2.954	8.5	20.3
2 11	7 6.51	+ 9 29.4	2.116	2.966	11.5	20.5

372438 2009 SU_{70} 1 11.5 134°.28 2°.4/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.88	+26 21.0	2.070	2.842	14.5	21.1
12 13	7 53.78	+27 1.7	1.984	2.845	11.5	20.9
12 23	7 47.03	+27 46.0	1.921	2.848	8.1	20.7
1 2	7 38.17	+28 29.2	1.884	2.851	4.4	20.4
1 12	7 28.16	+29 6.4	1.876	2.854	2.5	20.3
1 22	7 18.16	+29 33.9	1.898	2.857	5.4	20.5
2 1	7 9.33	+29 49.9	1.947	2.860	9.0	20.7
2 11	7 2.65	+29 55.1	2.022	2.862	12.4	21.0

245298 2005 CX_{68} 1 11.5 276°.76 0°.5/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.63	+21 25.2	1.688	2.464	17.1	20.6
12 13	7 55.73	+21 8.9	1.592	2.455	13.8	20.3
12 23	7 48.72	+20 57.2	1.517	2.445	9.7	20.1
1 2	7 39.15	+20 48.1	1.466	2.436	4.9	19.8
1 12	7 28.12	+20 39.4	1.443	2.426	0.5	19.4
1 22	7 17.01	+20 29.2	1.448	2.416	5.4	19.8
2 1	7 7.28	+20 17.0	1.481	2.407	10.2	20.0
2 11	7 0.10	+20 3.0	1.537	2.397	14.5	20.2

199221 2006 AD_{42} 1 11.5 72°.95 0°.3/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.04	+21 42.2	1.449	2.232	19.1	20.9
12 13	7 57.79	+21 29.0	1.378	2.245	15.2	20.7
12 23	7 50.11	+21 21.3	1.326	2.257	10.6	20.5
1 2	7 39.76	+21 16.6	1.299	2.269	5.3	20.2
1 12	7 28.09	+21 12.1	1.298	2.282	0.4	19.8
1 22	7 16.72	+21 5.4	1.325	2.294	5.7	20.3
2 1	7 7.17	+20 56.1	1.379	2.306	10.7	20.6
2 11	7 0.55	+20 44.6	1.456	2.319	15.0	20.9

410443 2008 CF_{30} 1 11.5 70°.27 0°.6/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.10	+21 28.1	1.700	2.479	16.9	21.9
12 13	7 54.32	+21 50.5	1.622	2.487	13.5	21.7
12 23	7 47.58	+22 20.2	1.565	2.495	9.3	21.5
1 2	7 38.49	+22 53.7	1.533	2.503	4.6	21.2
1 12	7 28.15	+23 26.5	1.528	2.511	0.7	20.9
1 22	7 17.91	+23 54.5	1.552	2.520	5.2	21.3
2 1	7 9.09	+24 15.4	1.604	2.528	9.7	21.6
2 11	7 2.75	+24 28.8	1.679	2.536	13.6	21.8

31109 Janpalouš 1 11.6 248°.43 4°.0/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.84	+29 58.2	1.615	2.397	17.5	19.5
12 13	7 58.74	+30 28.1	1.525	2.390	14.1	19.2
12 23	7 51.06	+30 58.8	1.456	2.383	10.1	19.0
1 2	7 40.41	+31 24.0	1.412	2.376	6.0	18.7
1 12	7 28.06	+31 37.1	1.394	2.369	4.1	18.6
1 22	7 15.66	+31 33.9	1.404	2.361	7.2	18.7
2 1	7 4.94	+31 14.4	1.441	2.354	11.5	19.0
2 11	6 57.23	+30 41.9	1.500	2.346	15.6	19.2

230841 2004 QP_{6} 1 11.6 160°.43 0°.7/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.74	+18 50.5	2.387	3.138	13.4	21.5
12 13	7 53.07	+18 53.4	2.295	3.143	10.7	21.4
12 23	7 46.21	+19 2.0	2.227	3.148	7.5	21.2
1 2	7 37.66	+19 14.9	2.185	3.153	3.9	20.9
1 12	7 28.22	+19 29.7	2.174	3.157	0.7	20.7
1 22	7 18.81	+19 44.6	2.193	3.160	4.0	21.0
2 1	7 10.37	+19 58.0	2.242	3.163	7.5	21.2
2 11	7 3.68	+20 8.9	2.318	3.166	10.7	21.4

48244 2001 PG_{8} 1 11.6 316°.98 5°.3/ 9.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.13	+35 16.8	2.216	2.985	13.8	18.7
12 13	7 54.13	+36 12.3	2.128	2.981	11.2	18.5
12 23	7 47.38	+37 5.7	2.063	2.977	8.4	18.3
1 2	7 38.40	+37 51.0	2.025	2.974	6.0	18.2
1 12	7 28.18	+38 22.1	2.014	2.970	5.4	18.1
1 22	7 17.93	+38 35.7	2.032	2.967	7.2	18.2
2 1	7 8.89	+38 31.2	2.077	2.963	10.0	18.4
2 11	7 2.09	+38 11.0	2.146	2.960	12.7	18.6

455543 2004 FT_{146} 1 11.6 272°.46 7°.2/ 8.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 3.15	+38 2.5	2.020	2.785	15.1	21.6
12 13	7 58.95	+39 17.7	1.916	2.762	12.6	21.4
12 23	7 51.31	+40 31.8	1.833	2.738	9.9	21.1
1 2	7 40.66	+41 36.0	1.776	2.714	7.7	21.0
1 12	7 28.07	+42 21.5	1.746	2.689	7.4	20.9
1 22	7 15.06	+42 42.4	1.744	2.664	9.3	21.0
2 1	7 3.36	+42 37.5	1.768	2.639	12.2	21.1
2 11	6 54.43	+42 10.1	1.815	2.613	15.3	21.2

323746 2005 MY_{53} 1 11.6 66°.02 3°.4/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.56	+31 0.0	1.734	2.508	16.8	20.3
12 13	7 59.27	+31 5.7	1.668	2.527	13.4	20.1
12 23	7 50.81	+31 8.7	1.622	2.547	9.5	19.9
1 2	7 39.99	+31 4.0	1.603	2.567	5.4	19.7
1 12	7 28.13	+30 47.6	1.611	2.587	3.4	19.6
1 22	7 16.73	+30 18.5	1.648	2.607	6.2	19.8
2 1	7 7.15	+29 38.5	1.713	2.627	10.0	20.1
2 11	7 0.35	+28 51.2	1.803	2.646	13.4	20.4

53102 1999 AZ 1 11.6 354°.00 2°.2/10.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.78	+20 39.2	1.445	2.243	18.5	18.4
12 13	7 51.75	+22 0.9	1.362	2.238	14.8	18.1
12 23	7 46.38	+23 38.2	1.299	2.235	10.2	17.9
1 2	7 38.16	+25 24.7	1.261	2.232	5.2	17.6
1 12	7 28.20	+27 10.8	1.250	2.230	2.4	17.4
1 22	7 18.02	+28 46.8	1.265	2.230	6.7	17.7
2 1	7 9.27	+30 5.7	1.307	2.229	11.7	17.9
2 11	7 3.34	+31 5.1	1.372	2.230	16.0	18.2

258397 2001 XV_{101} 1 11.6 54°.27 0°.5/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.30	+23 41.5	1.591	2.370	17.9	19.3
12 13	7 57.43	+23 32.0	1.534	2.398	14.1	19.1
12 23	7 49.49	+23 25.9	1.497	2.426	9.7	18.9
1 2	7 39.30	+23 20.1	1.484	2.455	4.8	18.7
1 12	7 28.17	+23 11.9	1.500	2.483	0.6	18.5
1 22	7 17.54	+22 59.7	1.544	2.512	5.2	18.9
2 1	7 8.71	+22 43.6	1.616	2.541	9.6	19.2
2 11	7 2.55	+22 24.7	1.712	2.569	13.4	19.5

180611 2004 FD_{105} 1 11.6 240°.50 4°.9/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.91	+ 6 2.2	2.463	3.176	14.0	20.7
12 13	7 51.70	+ 5 44.9	2.348	3.159	11.8	20.5
12 23	7 45.39	+ 5 40.0	2.253	3.141	9.1	20.3
1 2	7 37.35	+ 5 49.1	2.185	3.122	6.5	20.1
1 12	7 28.26	+ 6 12.2	2.145	3.103	4.9	19.9
1 22	7 18.97	+ 6 48.0	2.135	3.083	5.8	20.0
2 1	7 10.38	+ 7 33.9	2.154	3.063	8.5	20.1
2 11	7 3.33	+ 8 26.4	2.200	3.042	11.4	20.2

463641 2013 TA_{114} 1 11.6 79°.08 5°.1/ 9.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.00	+34 57.4	2.249	3.015	13.7	21.2
12 13	7 54.64	+35 54.3	2.172	3.024	11.1	21.1
12 23	7 47.61	+36 48.8	2.118	3.032	8.2	20.9
1 2	7 38.46	+37 34.9	2.091	3.040	5.8	20.8
1 12	7 28.21	+38 7.0	2.092	3.048	5.2	20.8
1 22	7 18.03	+38 22.0	2.121	3.056	6.9	20.9
2 1	7 9.12	+38 19.6	2.179	3.064	9.6	21.1
2 11	7 2.41	+38 2.2	2.260	3.072	12.2	21.2

269352 2008 UM_{12} 1 11.6 207°.03 0°.5/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.35	+22 12.3	2.214	2.979	13.9	21.1
12 13	7 52.30	+22 24.9	2.121	2.978	11.1	20.9
12 23	7 45.87	+22 42.2	2.050	2.977	7.7	20.7
1 2	7 37.58	+23 1.6	2.006	2.976	3.8	20.4
1 12	7 28.26	+23 20.2	1.991	2.974	0.5	20.2
1 22	7 18.93	+23 35.3	2.006	2.973	4.3	20.5
2 1	7 10.64	+23 45.6	2.050	2.971	8.1	20.7
2 11	7 4.23	+23 50.6	2.120	2.970	11.5	20.9

405963 2006 SZ_{61} 1 11.6 88°.05 1°.1/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.64	+16 45.5	1.842	2.602	16.5	21.7
12 13	7 55.04	+17 3.6	1.773	2.625	13.1	21.5
12 23	7 47.77	+17 31.8	1.726	2.648	9.1	21.3
1 2	7 38.49	+18 7.6	1.704	2.671	4.8	21.1
1 12	7 28.22	+18 47.1	1.711	2.693	1.1	20.9
1 22	7 18.17	+19 26.6	1.747	2.715	4.7	21.2
2 1	7 9.47	+20 3.1	1.812	2.737	8.8	21.5
2 11	7 3.03	+20 34.8	1.903	2.758	12.4	21.7

350619 2001 SN_{198} 1 11.6 9°.05 6°.4/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 49.50	+ 8 51.6	1.029	1.836	23.7	19.7
12 13	7 48.94	+ 8 24.7	0.965	1.838	19.7	19.4
12 23	7 44.67	+ 8 21.6	0.916	1.841	14.9	19.2
1 2	7 37.31	+ 8 45.2	0.887	1.846	9.8	18.9
1 12	7 28.27	+ 9 34.5	0.879	1.852	6.5	18.8
1 22	7 19.30	+10 43.5	0.894	1.860	8.4	18.9
2 1	7 12.18	+12 3.8	0.932	1.870	13.1	19.2
2 11	7 8.27	+13 26.0	0.989	1.881	17.8	19.5

447061 2004 RY_{261} 1 11.6 38°.17 1°.2/11.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 58.88	+23 12.1	1.210	2.016	20.9	21.3
12 13	7 55.96	+23 26.4	1.150	2.030	16.6	21.0
12 23	7 49.20	+23 47.8	1.109	2.045	11.5	20.8
1 2	7 39.43	+24 11.5	1.089	2.061	5.7	20.5
1 12	7 28.18	+24 31.8	1.095	2.078	1.3	20.3
1 22	7 17.31	+24 44.6	1.126	2.095	6.5	20.7
2 1	7 8.54	+24 48.3	1.182	2.113	11.7	21.0
2 11	7 3.06	+24 44.0	1.260	2.131	16.2	21.3

426028 2011 OV_{3} 1 11.6 211°.00 3°.1/13.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.57	+ 8 39.0	2.783	3.506	12.3	21.5
12 13	7 48.73	+ 8 49.8	2.680	3.502	10.1	21.3
12 23	7 43.12	+ 9 12.0	2.599	3.498	7.6	21.1
1 2	7 36.13	+ 9 45.4	2.545	3.494	4.9	21.0
1 12	7 28.35	+10 28.7	2.520	3.490	3.2	20.8
1 22	7 20.50	+11 19.5	2.526	3.485	4.3	20.9
2 1	7 13.31	+12 15.0	2.562	3.480	6.9	21.1
2 11	7 7.45	+13 12.1	2.626	3.474	9.6	21.2

115598 2003 UH_{99} 1 11.6 68°.69 2°.1/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.26	+24 28.6	2.108	2.880	14.3	19.4
12 13	7 52.41	+25 23.6	2.027	2.889	11.3	19.2
12 23	7 46.05	+26 24.1	1.970	2.898	7.8	19.0
1 2	7 37.71	+27 25.4	1.939	2.907	4.1	18.8
1 12	7 28.28	+28 22.1	1.937	2.916	2.2	18.7
1 22	7 18.86	+29 9.8	1.965	2.926	5.1	18.9
2 1	7 10.56	+29 45.9	2.022	2.935	8.7	19.2
2 11	7 4.29	+30 10.2	2.104	2.944	11.9	19.4

248869 2006 UH_{67} 1 11.6 86°.03 0°.8/11.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.36	+21 25.4	1.917	2.679	15.9	21.5
12 13	7 57.06	+22 1.0	1.856	2.710	12.5	21.4
12 23	7 49.09	+22 42.8	1.816	2.742	8.6	21.2
1 2	7 39.12	+23 26.8	1.803	2.772	4.2	21.0
1 12	7 28.24	+24 8.2	1.820	2.802	0.8	20.8
1 22	7 17.65	+24 43.2	1.866	2.832	4.7	21.1
2 1	7 8.51	+25 9.9	1.942	2.861	8.7	21.4
2 11	7 1.67	+25 28.2	2.044	2.889	12.0	21.7

48487 1992 EY_{5} 1 11.6 292°.18 5°.1/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.23	+ 6 30.5	1.755	2.500	17.7	18.5
12 13	7 51.27	+ 6 33.2	1.656	2.489	14.8	18.3
12 23	7 45.58	+ 6 55.1	1.577	2.479	11.4	18.1
1 2	7 37.63	+ 7 37.7	1.520	2.469	7.7	17.8
1 12	7 28.29	+ 8 39.8	1.491	2.459	5.2	17.7
1 22	7 18.73	+ 9 57.2	1.489	2.448	6.6	17.7
2 1	7 10.22	+11 24.1	1.515	2.438	10.2	17.9
2 11	7 3.85	+12 53.7	1.565	2.429	14.1	18.1

131772 2002 AV_{18} 1 11.6 352°.19 2°.4/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.02	+25 0.3	1.326	2.131	19.5	19.2
12 13	7 54.60	+25 28.3	1.248	2.127	15.6	19.0
12 23	7 48.47	+26 2.8	1.188	2.124	10.9	18.7
1 2	7 39.23	+26 38.2	1.151	2.122	5.7	18.4
1 12	7 28.22	+27 8.1	1.139	2.120	2.5	18.2
1 22	7 17.20	+27 27.1	1.153	2.119	6.9	18.5
2 1	7 7.98	+27 33.1	1.192	2.119	12.0	18.7
2 11	7 1.93	+27 27.5	1.252	2.119	16.6	19.0

345522 2006 KN_{73} 1 11.6 84°.56 3°.6/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.67	+ 9 33.6	2.271	3.008	14.4	21.0
12 13	7 49.91	+ 9 31.6	2.185	3.017	11.8	20.8
12 23	7 44.08	+ 9 41.8	2.122	3.026	8.7	20.6
1 2	7 36.63	+10 4.3	2.083	3.035	5.6	20.5
1 12	7 28.35	+10 37.8	2.074	3.044	3.6	20.3
1 22	7 20.10	+11 19.6	2.093	3.053	4.9	20.4
2 1	7 12.76	+12 6.7	2.142	3.062	7.9	20.6
2 11	7 7.09	+12 55.6	2.218	3.071	10.9	20.8

194668 2001 XL_{190} 1 11.6 49°.52 0°.5/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.28	+17 25.8	1.186	1.982	21.9	19.2
12 13	7 56.80	+17 59.7	1.137	2.010	17.3	19.0
12 23	7 49.59	+18 48.2	1.107	2.040	11.9	18.8
1 2	7 39.54	+19 46.4	1.099	2.069	6.0	18.6
1 12	7 28.22	+20 47.1	1.116	2.099	0.5	18.3
1 22	7 17.40	+21 43.5	1.160	2.129	6.1	18.7
2 1	7 8.71	+22 31.1	1.229	2.160	11.3	19.1
2 11	7 3.24	+23 8.1	1.320	2.190	15.7	19.5

190119 2004 VA_{64} 1 11.6 345°.68 33°.0/ 3.0 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 21.20	−22 28.3	1.111	1.710	33.0	19.9
12 13	8 23.08	−29 56.6	0.927	1.574	35.8	19.4
12 23	8 20.43	−39 41.3	0.765	1.430	40.5	18.9
1 2	8 8.43	−52 32.7	0.631	1.277	48.8	18.5
1 12	7 25.07	−69 0.1	0.535	1.113	62.1	18.2
1 22	1 59.48	−81 25.6	0.489	0.936	80.8	18.2
2 1	22 2.03	−63 24.0	0.506	0.743	102.5	18.7
2 11	21 24.20	−41 54.6	0.598	0.535	121.1	19.5

307685 2003 TF_{49} 1 11.6 173°.98 1°.2/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 0.31	+18 43.6	1.945	2.704	15.8	21.1
12 13	7 55.67	+18 32.2	1.854	2.706	12.6	20.9
12 23	7 48.34	+18 27.2	1.785	2.708	8.9	20.6
1 2	7 38.88	+18 27.1	1.742	2.709	4.7	20.4
1 12	7 28.26	+18 30.0	1.728	2.710	1.2	20.1
1 22	7 17.68	+18 34.0	1.743	2.710	4.8	20.4
2 1	7 8.33	+18 37.8	1.787	2.710	9.0	20.6
2 11	7 1.18	+18 40.6	1.857	2.710	12.7	20.9

34859 2001 TR_{49} 1 11.6 318°.89 4°.7/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.13	+10 54.8	1.670	2.436	17.7	18.6
12 13	7 50.57	+10 26.0	1.571	2.421	14.7	18.3
12 23	7 45.20	+10 10.2	1.492	2.405	11.0	18.1
1 2	7 37.47	+10 9.0	1.435	2.391	7.2	17.8
1 12	7 28.33	+10 22.7	1.405	2.376	4.7	17.6
1 22	7 18.98	+10 49.5	1.401	2.363	6.6	17.7
2 1	7 10.75	+11 26.1	1.424	2.349	10.6	17.9
2 11	7 4.76	+12 8.5	1.470	2.337	14.6	18.1

319530 2006 RS_{49} 1 11.6 68°.51 1°.4/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.21	+24 2.2	1.659	2.439	17.2	21.0
12 13	7 55.99	+24 22.1	1.590	2.456	13.6	20.8
12 23	7 48.71	+24 46.7	1.542	2.473	9.4	20.6
1 2	7 39.07	+25 11.7	1.520	2.489	4.8	20.4
1 12	7 28.28	+25 32.5	1.524	2.506	1.5	20.2
1 22	7 17.73	+25 45.8	1.558	2.524	5.4	20.5
2 1	7 8.79	+25 50.5	1.618	2.541	9.8	20.8
2 11	7 2.45	+25 47.4	1.703	2.558	13.6	21.1

378993 2008 US_{300} 1 11.6 12°.02 1°.4/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.90	+19 2.6	1.957	2.726	15.4	20.5
12 13	7 52.14	+18 39.6	1.870	2.727	12.3	20.3
12 23	7 45.86	+18 21.9	1.804	2.729	8.6	20.1
1 2	7 37.62	+18 8.7	1.764	2.732	4.6	19.8
1 12	7 28.35	+17 58.8	1.752	2.734	1.4	19.6
1 22	7 19.16	+17 51.1	1.769	2.737	4.6	19.8
2 1	7 11.14	+17 44.7	1.815	2.741	8.7	20.1
2 11	7 5.18	+17 39.1	1.885	2.744	12.2	20.3

19303 Chinacyo 1 11.6 48°.37 3°.1/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.44	+26 43.0	1.291	2.091	20.2	18.3
12 13	7 57.80	+27 17.1	1.236	2.112	16.0	18.0
12 23	7 50.37	+27 54.8	1.199	2.133	11.1	17.8
1 2	7 39.99	+28 29.3	1.186	2.155	6.0	17.6
1 12	7 28.26	+28 53.9	1.198	2.178	3.2	17.5
1 22	7 16.99	+29 4.4	1.237	2.200	7.0	17.8
2 1	7 7.87	+29 0.5	1.301	2.224	11.7	18.1
2 11	7 2.03	+28 45.2	1.387	2.247	15.8	18.4

1456 Saldanha 1 11.6 98°.50 0°.6/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.12	+20 5.2	2.647	3.395	12.3	16.4
12 13	7 52.22	+19 55.4	2.568	3.415	9.7	16.3
12 23	7 45.43	+19 49.3	2.512	3.433	6.7	16.1
1 2	7 37.24	+19 45.8	2.485	3.452	3.4	15.9
1 12	7 28.39	+19 43.3	2.487	3.470	0.6	15.7
1 22	7 19.71	+19 40.7	2.521	3.488	3.5	16.0
2 1	7 11.96	+19 37.4	2.586	3.506	6.7	16.2
2 11	7 5.81	+19 33.0	2.677	3.523	9.5	16.4

217463 2005 UO_{385} 1 11.6 60°.28 1°.9/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.25	+14 57.2	1.755	2.522	16.9	20.3
12 13	7 52.61	+15 8.6	1.682	2.536	13.6	20.1
12 23	7 46.28	+15 31.9	1.629	2.551	9.6	19.9
1 2	7 37.85	+16 5.5	1.600	2.566	5.3	19.7
1 12	7 28.36	+16 46.2	1.599	2.580	1.9	19.5
1 22	7 18.99	+17 29.9	1.627	2.595	4.9	19.7
2 1	7 10.92	+18 13.0	1.683	2.610	9.1	20.0
2 11	7 5.09	+18 52.7	1.764	2.626	12.8	20.3

247399 2002 AX_{198} 1 11.6 128°.32 1°.6/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.44	+17 17.0	2.639	3.385	12.4	20.3
12 13	7 51.01	+16 55.4	2.546	3.390	9.9	20.1
12 23	7 44.68	+16 38.7	2.477	3.395	7.0	19.9
1 2	7 36.91	+16 26.3	2.435	3.399	3.9	19.7
1 12	7 28.41	+16 17.5	2.424	3.404	1.6	19.6
1 22	7 19.96	+16 11.5	2.443	3.408	3.8	19.8
2 1	7 12.37	+16 7.5	2.492	3.412	6.9	20.0
2 11	7 6.30	+16 4.9	2.568	3.416	9.8	20.2

99273 2001 PD_{28} 1 11.6 263°.15 0°.3/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.70	+23 7.4	2.432	3.190	13.0	19.8
12 13	7 53.25	+23 0.5	2.321	3.174	10.4	19.6
12 23	7 46.52	+22 55.9	2.234	3.158	7.2	19.4
1 2	7 37.96	+22 51.7	2.173	3.142	3.7	19.1
1 12	7 28.36	+22 45.8	2.142	3.125	0.3	18.8
1 22	7 18.66	+22 36.9	2.142	3.109	4.1	19.1
2 1	7 9.86	+22 24.4	2.172	3.092	7.8	19.3
2 11	7 2.83	+22 8.7	2.228	3.074	11.1	19.5

138361 2000 GZ_{131} 1 11.6 64°.54 2°.8/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 56.58	+13 55.0	1.728	2.493	17.2	20.5
12 13	7 52.97	+13 46.6	1.648	2.501	13.9	20.3
12 23	7 46.60	+13 50.0	1.589	2.508	10.0	20.1
1 2	7 38.05	+14 4.7	1.553	2.516	5.8	19.8
1 12	7 28.36	+14 28.8	1.545	2.523	2.9	19.7
1 22	7 18.73	+14 59.2	1.565	2.531	5.4	19.8
2 1	7 10.40	+15 32.8	1.613	2.539	9.5	20.1
2 11	7 4.33	+16 6.5	1.685	2.547	13.3	20.3

325299 2008 HM_{35} 1 11.6 267°.73 8°.9/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.38	− 1 33.4	2.048	2.745	16.9	21.6
12 13	7 50.94	− 2 30.7	1.945	2.730	14.8	21.5
12 23	7 45.13	− 3 11.1	1.861	2.716	12.5	21.3
1 2	7 37.35	− 3 30.0	1.800	2.701	10.2	21.1
1 12	7 28.39	− 3 24.4	1.763	2.686	9.0	21.0
1 22	7 19.22	− 2 54.2	1.753	2.671	9.4	21.0
2 1	7 10.92	− 2 2.0	1.769	2.655	11.4	21.1
2 11	7 4.42	− 0 53.3	1.809	2.640	14.0	21.2

309755 2008 WN_{87} 1 11.6 91°.09 0°.8/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.33	+18 11.8	2.232	2.992	14.0	21.2
12 13	7 51.37	+18 20.0	2.146	2.999	11.1	21.0
12 23	7 45.17	+18 35.2	2.083	3.006	7.8	20.8
1 2	7 37.24	+18 55.8	2.046	3.013	4.0	20.6
1 12	7 28.40	+19 19.4	2.038	3.020	0.8	20.4
1 22	7 19.61	+19 43.3	2.060	3.027	4.1	20.6
2 1	7 11.82	+20 5.5	2.111	3.034	7.8	20.9
2 11	7 5.83	+20 24.8	2.188	3.041	11.0	21.1

158571 2002 JQ_{107} 1 11.6 179°.95 4°.6/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.17	+ 5 3.7	2.549	3.260	13.6	21.3
12 13	7 50.12	+ 4 58.8	2.452	3.261	11.4	21.1
12 23	7 44.17	+ 5 7.5	2.376	3.261	8.8	20.9
1 2	7 36.72	+ 5 30.4	2.325	3.261	6.3	20.8
1 12	7 28.43	+ 6 7.2	2.304	3.261	4.7	20.7
1 22	7 20.10	+ 6 55.5	2.312	3.261	5.4	20.7
2 1	7 12.54	+ 7 52.4	2.349	3.260	7.8	20.9
2 11	7 6.43	+ 8 53.9	2.414	3.258	10.5	21.0

90831 1995 UL_{14} 1 11.6 15°.38 2°.4/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.56	+15 50.6	1.825	2.592	16.4	19.4
12 13	7 52.07	+15 31.7	1.739	2.594	13.2	19.1
12 23	7 45.94	+15 21.6	1.674	2.596	9.4	18.9
1 2	7 37.72	+15 19.9	1.633	2.598	5.3	18.7
1 12	7 28.39	+15 25.5	1.621	2.600	2.4	18.5
1 22	7 19.09	+15 36.3	1.636	2.603	5.1	18.7
2 1	7 11.00	+15 50.3	1.679	2.606	9.2	18.9
2 11	7 5.06	+16 5.6	1.747	2.609	12.9	19.2

429351 2010 FS_{95} 1 11.6 282°.62 6°.3/13.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.35	+ 2 42.9	2.405	3.113	14.4	21.5
12 13	7 48.93	+ 2 4.3	2.298	3.100	12.3	21.3
12 23	7 43.49	+ 1 38.9	2.212	3.086	9.9	21.1
1 2	7 36.44	+ 1 29.4	2.151	3.072	7.7	20.9
1 12	7 28.45	+ 1 36.9	2.117	3.058	6.4	20.8
1 22	7 20.33	+ 2 1.0	2.110	3.045	7.0	20.9
2 1	7 12.94	+ 2 39.5	2.132	3.031	9.1	21.0
2 11	7 7.05	+ 3 28.6	2.179	3.017	11.6	21.1

120251 2004 GB_{6} 1 11.6 82°.80 7°.1/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 11.76	+41 35.3	2.040	2.785	15.6	19.0
12 13	8 4.82	+42 26.4	1.989	2.819	12.8	18.9
12 23	7 54.56	+43 8.2	1.959	2.852	10.0	18.8
1 2	7 41.88	+43 32.8	1.955	2.884	7.8	18.7
1 12	7 28.23	+43 34.4	1.980	2.916	7.2	18.7
1 22	7 15.20	+43 12.0	2.032	2.947	8.5	18.9
2 1	7 4.23	+42 28.4	2.112	2.977	10.8	19.1
2 11	6 56.24	+41 29.7	2.216	3.007	13.1	19.3

163529 2002 TV_{41} 1 11.6 75°.00 4°.1/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.89	+ 9 5.7	2.255	2.991	14.5	20.1
12 13	7 50.09	+ 8 47.3	2.172	3.001	11.9	19.9
12 23	7 44.20	+ 8 40.6	2.110	3.012	9.0	19.7
1 2	7 36.74	+ 8 46.2	2.074	3.022	6.0	19.6
1 12	7 28.45	+ 9 3.5	2.066	3.033	4.1	19.5
1 22	7 20.22	+ 9 30.7	2.087	3.043	5.3	19.5
2 1	7 12.93	+10 5.1	2.137	3.054	8.1	19.7
2 11	7 7.32	+10 43.7	2.213	3.064	11.0	19.9

224339 2005 UP_{69} 1 11.6 161°.81 2°.3/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.70	+15 16.5	2.017	2.774	15.4	20.8
12 13	7 52.71	+15 3.7	1.927	2.775	12.4	20.6
12 23	7 46.26	+14 59.6	1.857	2.776	8.9	20.4
1 2	7 37.86	+15 3.8	1.814	2.777	5.1	20.1
1 12	7 28.41	+15 14.9	1.799	2.778	2.3	20.0
1 22	7 18.96	+15 30.7	1.813	2.779	4.8	20.1
2 1	7 10.59	+15 49.3	1.855	2.779	8.6	20.4
2 11	7 4.21	+16 8.7	1.923	2.780	12.2	20.6

323911 2005 TH_{75} 1 11.6 163°.99 5°.9/ 9.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 4.07	+38 24.0	2.413	3.164	13.3	20.9
12 13	7 58.67	+39 26.4	2.332	3.169	10.9	20.7
12 23	7 50.45	+40 24.6	2.273	3.174	8.5	20.6
1 2	7 39.99	+41 11.9	2.242	3.178	6.5	20.5
1 12	7 28.31	+41 42.4	2.239	3.182	6.0	20.4
1 22	7 16.67	+41 52.9	2.266	3.185	7.5	20.5
2 1	7 6.32	+41 43.6	2.320	3.187	9.9	20.7
2 11	6 58.29	+41 17.6	2.399	3.189	12.3	20.9

78584 2002 SU_{10} 1 11.6 30°.67 1°.7/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.30	+24 20.5	1.896	2.677	15.4	19.5
12 13	7 51.89	+24 50.2	1.819	2.685	12.2	19.3
12 23	7 45.82	+25 24.6	1.763	2.694	8.4	19.1
1 2	7 37.66	+25 59.6	1.734	2.703	4.3	18.8
1 12	7 28.42	+26 30.7	1.732	2.713	1.7	18.7
1 22	7 19.27	+26 54.6	1.759	2.723	5.1	18.9
2 1	7 11.38	+27 9.5	1.813	2.734	9.0	19.2
2 11	7 5.68	+27 15.5	1.892	2.745	12.5	19.4

227622 2006 BF_{46} 1 11.6 82°.38 0°.0/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.91	+20 54.1	2.058	2.825	14.8	21.1
12 13	7 52.84	+21 4.5	1.976	2.834	11.7	21.0
12 23	7 46.30	+21 20.7	1.916	2.842	8.1	20.7
1 2	7 37.85	+21 40.2	1.882	2.851	4.1	20.5
1 12	7 28.42	+21 59.9	1.877	2.860	0.2	20.2
1 22	7 19.06	+22 17.3	1.901	2.869	4.4	20.6
2 1	7 10.87	+22 30.6	1.954	2.878	8.3	20.8
2 11	7 4.69	+22 39.3	2.033	2.886	11.7	21.1

522153 2016 AP_{251} 1 11.6 254°.49 0°.5/11.8 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.13	+18 26.8	2.046	2.808	15.0	22.4
12 13	7 53.31	+18 45.5	1.940	2.794	12.1	22.2
12 23	7 46.89	+19 13.2	1.855	2.780	8.5	21.9
1 2	7 38.30	+19 47.7	1.796	2.765	4.4	21.7
1 12	7 28.40	+20 25.7	1.767	2.750	0.5	21.3
1 22	7 18.27	+21 3.5	1.766	2.734	4.6	21.6
2 1	7 9.12	+21 38.2	1.795	2.719	8.9	21.8
2 11	7 1.97	+22 7.8	1.849	2.703	12.7	22.0

448755 2011 QE_{11} 1 11.6 155°.21 2°.6/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.42	+27 48.5	1.806	2.576	16.4	21.9
12 13	7 59.34	+28 6.6	1.723	2.582	13.1	21.7
12 23	7 51.10	+28 25.9	1.662	2.587	9.2	21.5
1 2	7 40.37	+28 41.5	1.625	2.592	5.0	21.2
1 12	7 28.32	+28 48.4	1.618	2.597	2.7	21.1
1 22	7 16.41	+28 44.0	1.639	2.600	5.9	21.3
2 1	7 6.06	+28 28.3	1.689	2.604	10.0	21.6
2 11	6 58.37	+28 3.5	1.764	2.607	13.7	21.8

25274 1998 VE_{33} 1 11.6 194°.91 6°.2/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.99	+ 4 42.5	2.223	2.935	15.3	18.6
12 13	7 52.66	+ 3 57.1	2.126	2.933	13.0	18.4
12 23	7 46.10	+ 3 24.5	2.051	2.931	10.3	18.3
1 2	7 37.76	+ 3 7.2	2.000	2.928	7.7	18.1
1 12	7 28.44	+ 3 6.3	1.976	2.925	6.2	18.0
1 22	7 19.05	+ 3 21.5	1.982	2.921	7.0	18.0
2 1	7 10.57	+ 3 50.4	2.016	2.917	9.4	18.2
2 11	7 3.84	+ 4 29.4	2.075	2.912	12.2	18.3

334259 2001 TC_{245} 1 11.6 105°.42 1°.5/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.08	+25 43.7	2.541	3.301	12.5	21.5
12 13	7 52.49	+26 3.0	2.460	3.314	9.8	21.3
12 23	7 45.80	+26 24.1	2.402	3.327	6.8	21.1
1 2	7 37.52	+26 44.0	2.373	3.340	3.5	20.9
1 12	7 28.46	+26 59.8	2.373	3.353	1.5	20.8
1 22	7 19.50	+27 9.4	2.404	3.366	4.1	21.0
2 1	7 11.54	+27 12.0	2.464	3.378	7.3	21.2
2 11	7 5.29	+27 8.2	2.551	3.390	10.1	21.4

408363 2013 GS_{91} 1 11.6 261°.06 2°.5/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.41	+16 5.0	1.795	2.558	16.7	21.0
12 13	7 54.58	+15 41.8	1.694	2.547	13.6	20.8
12 23	7 47.90	+15 26.8	1.615	2.536	9.8	20.5
1 2	7 38.85	+15 19.8	1.560	2.524	5.6	20.2
1 12	7 28.40	+15 19.8	1.533	2.512	2.5	20.0
1 22	7 17.82	+15 25.1	1.534	2.500	5.5	20.2
2 1	7 8.40	+15 34.1	1.563	2.488	9.9	20.4
2 11	7 1.26	+15 45.1	1.616	2.476	13.9	20.6

206821 2004 EQ_{14} 1 11.6 232°.36 2°.8/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.81	+10 18.5	2.685	3.416	12.5	20.5
12 13	7 49.06	+10 28.5	2.580	3.409	10.3	20.3
12 23	7 43.46	+10 49.3	2.498	3.403	7.6	20.1
1 2	7 36.41	+11 20.6	2.442	3.396	4.7	19.9
1 12	7 28.52	+12 1.0	2.415	3.389	2.8	19.8
1 22	7 20.53	+12 48.1	2.420	3.381	4.2	19.8
2 1	7 13.23	+13 39.1	2.454	3.374	7.0	20.0
2 11	7 7.31	+14 31.0	2.516	3.366	9.9	20.2

140611 2001 UQ_6 1 11.6 107°.62 3°.7/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 53.75	+ 9 31.0	2.595	3.323	13.0	20.4
12 13	7 49.68	+ 9 9.3	2.508	3.333	10.7	20.3
12 23	7 43.79	+ 8 57.2	2.444	3.343	8.0	20.1
1 2	7 36.51	+ 8 55.4	2.405	3.353	5.3	20.0
1 12	7 28.52	+ 9 3.5	2.396	3.362	3.7	19.9
1 22	7 20.58	+ 9 20.2	2.417	3.372	4.8	20.0
2 1	7 13.45	+ 9 43.7	2.467	3.381	7.3	20.1
2 11	7 7.78	+10 11.5	2.543	3.390	9.9	20.3

430244 2013 WQ_{11} 1 11.6 41°.25 0°.3/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.94	+21 9.9	1.987	2.760	15.0	21.5
12 13	7 51.36	+21 29.7	1.912	2.774	11.9	21.3
12 23	7 45.31	+21 55.7	1.859	2.787	8.2	21.1
1 2	7 37.38	+22 25.0	1.831	2.801	4.1	20.9
1 12	7 28.48	+22 54.1	1.832	2.816	0.4	20.7
1 22	7 19.71	+23 19.8	1.863	2.830	4.5	21.0
2 1	7 12.12	+23 40.2	1.921	2.845	8.4	21.3
2 11	7 6.56	+23 54.6	2.005	2.861	11.8	21.5

362168 2009 EE_{23} 1 11.6 268°.72 1°.7/11.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.37	+24 19.3	1.772	2.549	16.4	21.8
12 13	7 55.68	+24 42.6	1.670	2.534	13.2	21.5
12 23	7 48.88	+25 11.6	1.589	2.518	9.2	21.2
1 2	7 39.45	+25 42.1	1.533	2.503	4.8	20.9
1 12	7 28.40	+26 9.0	1.505	2.487	1.7	20.7
1 22	7 17.11	+26 28.3	1.506	2.471	5.7	20.9
2 1	7 7.07	+26 37.8	1.534	2.454	10.4	21.1
2 11	6 59.53	+26 37.7	1.586	2.438	14.5	21.4

347863 2002 RE_{201} 1 11.6 103°.93 3°.0/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 5.71	+25 58.4	1.556	2.333	18.3	21.6
12 13	8 0.69	+26 48.6	1.491	2.354	14.5	21.4
12 23	7 52.19	+27 43.6	1.447	2.375	10.1	21.2
1 2	7 40.95	+28 36.6	1.428	2.395	5.5	21.0
1 12	7 28.35	+29 20.2	1.436	2.415	3.1	20.9
1 22	7 16.03	+29 49.5	1.473	2.433	6.5	21.2
2 1	7 5.58	+30 3.3	1.538	2.452	10.9	21.5
2 11	6 58.13	+30 3.6	1.626	2.469	14.7	21.7

140727 2001 UA_{96} 1 11.6 244°.17 2°.3/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.79	+14 16.2	2.496	3.242	13.0	20.3
12 13	7 49.97	+14 6.8	2.396	3.237	10.5	20.1
12 23	7 44.14	+14 5.3	2.319	3.233	7.6	19.9
1 2	7 36.77	+14 11.2	2.268	3.228	4.4	19.7
1 12	7 28.53	+14 23.5	2.246	3.224	2.3	19.6
1 22	7 20.24	+14 40.7	2.255	3.219	4.2	19.7
2 1	7 12.76	+15 0.9	2.292	3.214	7.3	19.9
2 11	7 6.81	+15 22.3	2.357	3.209	10.4	20.1

328737 2009 UP_{20} 1 11.6 62°.96 5°.0/ 9.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.39	+32 14.9	1.834	2.613	15.9	20.4
12 13	7 56.24	+33 16.4	1.767	2.628	12.7	20.2
12 23	7 49.00	+34 17.5	1.722	2.643	9.3	20.0
1 2	7 39.33	+35 10.8	1.702	2.659	6.1	19.9
1 12	7 28.43	+35 49.7	1.710	2.675	5.1	19.8
1 22	7 17.70	+36 10.2	1.746	2.691	7.3	20.0
2 1	7 8.53	+36 12.1	1.809	2.707	10.5	20.2
2 11	7 1.97	+35 58.1	1.895	2.722	13.6	20.4

281284 2007 RC_{117} 1 11.6 213°.89 4°.4/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.57	+ 7 17.8	2.526	3.247	13.5	21.2
12 13	7 49.72	+ 6 55.4	2.426	3.244	11.2	21.1
12 23	7 43.95	+ 6 44.2	2.348	3.240	8.6	20.9
1 2	7 36.67	+ 6 45.3	2.296	3.236	6.0	20.7
1 12	7 28.55	+ 6 58.6	2.272	3.232	4.5	20.6
1 22	7 20.37	+ 7 22.9	2.278	3.228	5.4	20.7
2 1	7 12.96	+ 7 56.1	2.312	3.224	7.9	20.8
2 11	7 7.02	+ 8 35.0	2.374	3.219	10.6	21.0

443348 2014 GM_{28} 1 11.6 244°.97 0°.5/11.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.18	+22 48.0	3.566	4.317	9.3	22.1
12 13	7 47.38	+23 6.0	3.457	4.306	7.4	21.9
12 23	7 42.09	+23 26.9	3.372	4.296	5.1	21.7
1 2	7 35.66	+23 48.8	3.317	4.286	2.6	21.5
1 12	7 28.60	+24 10.0	3.292	4.275	0.6	21.3
1 22	7 21.49	+24 28.8	3.299	4.264	2.9	21.5
2 1	7 14.91	+24 44.0	3.337	4.253	5.5	21.7
2 11	7 9.41	+24 55.1	3.402	4.242	7.8	21.9

98859 2001 AZ_{41} 1 11.6 177°.69 0°.9/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.74	+23 44.1	2.149	2.908	14.5	19.3
12 13	7 56.67	+23 53.3	2.057	2.910	11.5	19.1
12 23	7 49.01	+24 5.9	1.987	2.911	8.0	18.9
1 2	7 39.29	+24 18.8	1.943	2.912	4.1	18.6
1 12	7 28.47	+24 28.8	1.930	2.912	0.9	18.4
1 22	7 17.67	+24 33.4	1.947	2.912	4.6	18.7
2 1	7 8.05	+24 31.9	1.993	2.911	8.5	18.9
2 11	7 0.53	+24 24.6	2.065	2.909	12.0	19.1

231101 2005 SV_{50} 1 11.6 164°.30 2°.9/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 56.68	+13 0.0	2.122	2.868	15.0	21.1
12 13	7 52.57	+12 49.4	2.030	2.871	12.2	20.9
12 23	7 46.12	+12 48.8	1.961	2.873	8.9	20.7
1 2	7 37.83	+12 58.2	1.916	2.875	5.3	20.4
1 12	7 28.53	+13 16.2	1.901	2.877	2.9	20.3
1 22	7 19.23	+13 40.8	1.915	2.879	4.9	20.4
2 1	7 10.94	+14 9.4	1.958	2.880	8.4	20.6
2 11	7 4.51	+14 39.6	2.027	2.881	11.7	20.8

402666 2006 UL_{192} 1 11.6 69°.22 0°.7/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.31	+23 32.7	1.668	2.443	17.4	21.4
12 13	7 57.50	+23 32.5	1.604	2.466	13.7	21.2
12 23	7 49.67	+23 36.1	1.560	2.489	9.4	21.0
1 2	7 39.58	+23 40.3	1.542	2.512	4.7	20.7
1 12	7 28.47	+23 41.6	1.551	2.534	0.8	20.5
1 22	7 17.73	+23 38.0	1.590	2.557	5.1	20.9
2 1	7 8.66	+23 29.1	1.656	2.580	9.5	21.2
2 11	7 2.20	+23 15.9	1.747	2.602	13.2	21.5

109413 2001 QH_{186} 1 11.6 30°.07 0°.5/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 6.58	+26 59.4	1.707	2.476	17.3	18.7
12 13	8 1.00	+26 9.6	1.621	2.479	13.8	18.5
12 23	7 52.19	+25 16.2	1.556	2.482	9.6	18.3
1 2	7 40.90	+24 17.4	1.517	2.486	4.9	18.0
1 12	7 28.43	+23 12.3	1.507	2.490	0.6	17.7
1 22	7 16.28	+22 2.5	1.527	2.495	5.3	18.0
2 1	7 5.88	+20 51.3	1.576	2.499	9.9	18.3
2 11	6 58.26	+19 42.3	1.650	2.504	14.0	18.6

57168 2001 QE_{19} 1 11.6 104°.53 0°.8/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.65	+22 43.2	1.521	2.304	18.4	20.3
12 13	7 57.60	+22 53.5	1.444	2.310	14.7	20.0
12 23	7 50.18	+23 9.8	1.386	2.317	10.2	19.8
1 2	7 40.04	+23 28.6	1.353	2.323	5.1	19.5
1 12	7 28.46	+23 45.1	1.346	2.329	0.8	19.2
1 22	7 17.00	+23 55.9	1.368	2.335	5.7	19.6
2 1	7 7.23	+23 59.4	1.416	2.341	10.6	19.9
2 11	7 0.30	+23 56.3	1.488	2.347	14.9	20.1

335945 2007 TQ_{67} 1 11.6 81°.23 2°.4/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.93	+15 14.5	2.314	3.062	13.8	20.5
12 13	7 51.68	+14 48.4	2.228	3.071	11.2	20.4
12 23	7 45.32	+14 29.1	2.164	3.079	8.0	20.2
1 2	7 37.36	+14 16.6	2.127	3.088	4.7	20.0
1 12	7 28.58	+14 10.2	2.119	3.097	2.4	19.9
1 22	7 19.89	+14 8.9	2.141	3.105	4.4	20.0
2 1	7 12.18	+14 11.7	2.192	3.114	7.7	20.2
2 11	7 6.18	+14 17.1	2.270	3.122	10.7	20.4

148857 2001 VU_{52} 1 11.6 76°.41 0°.9/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.69	+23 53.6	1.817	2.590	16.2	20.2
12 13	7 56.11	+23 56.4	1.745	2.605	12.9	20.0
12 23	7 48.69	+24 2.6	1.693	2.621	8.9	19.8
1 2	7 39.12	+24 9.0	1.668	2.637	4.5	19.6
1 12	7 28.52	+24 12.3	1.670	2.653	0.9	19.4
1 22	7 18.15	+24 10.5	1.702	2.669	4.9	19.7
2 1	7 9.26	+24 3.0	1.762	2.684	9.1	20.0
2 11	7 2.76	+23 50.6	1.847	2.700	12.7	20.2

486163 2012 XB_{135} 1 11.6 58°.98 2°.5/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.91	+23 13.9	1.337	2.133	19.8	20.8
12 13	7 56.80	+24 10.3	1.267	2.141	15.8	20.5
12 23	7 49.98	+25 16.9	1.216	2.150	10.9	20.3
1 2	7 40.08	+26 26.8	1.188	2.159	5.7	20.0
1 12	7 28.48	+27 31.4	1.187	2.168	2.6	19.8
1 22	7 16.96	+28 23.4	1.212	2.177	6.9	20.1
2 1	7 7.28	+28 59.2	1.263	2.186	11.9	20.4
2 11	7 0.80	+29 19.1	1.336	2.195	16.3	20.7

451053 2008 YZ_{107} 1 11.6 355°.88 0°.2/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.24	+19 18.3	1.167	1.982	21.0	21.1
12 13	7 51.15	+19 35.8	1.092	1.977	16.9	20.8
12 23	7 46.33	+20 6.6	1.034	1.973	11.8	20.5
1 2	7 38.35	+20 47.6	0.998	1.970	6.0	20.1
1 12	7 28.55	+21 33.2	0.985	1.969	0.3	19.7
1 22	7 18.69	+22 17.1	0.997	1.969	6.4	20.2
2 1	7 10.60	+22 54.3	1.033	1.970	12.2	20.5
2 11	7 5.72	+23 22.6	1.089	1.972	17.3	20.8

399512 2002 VL_{42} 1 11.6 46°.80 1°.8/12.1 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.20	+17 14.3	1.396	2.180	19.7	21.2
12 13	7 55.45	+17 4.8	1.339	2.205	15.7	21.0
12 23	7 48.46	+17 6.0	1.302	2.230	11.0	20.8
1 2	7 39.05	+17 16.4	1.289	2.256	5.9	20.6
1 12	7 28.54	+17 32.9	1.301	2.283	1.8	20.4
1 22	7 18.44	+17 52.1	1.340	2.310	5.6	20.7
2 1	7 10.14	+18 11.3	1.406	2.337	10.2	21.0
2 11	7 4.60	+18 28.7	1.495	2.364	14.3	21.4

296079 2009 BE_{11} 1 11.6 352°.38 6°.0/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 52.90	+ 5 12.4	1.387	2.151	20.8	19.7
12 13	7 50.91	+ 5 19.5	1.304	2.147	17.5	19.5
12 23	7 45.75	+ 5 52.1	1.237	2.144	13.4	19.2
1 2	7 37.95	+ 6 52.2	1.192	2.141	9.2	18.9
1 12	7 28.58	+ 8 17.8	1.171	2.140	6.2	18.8
1 22	7 19.04	+10 2.5	1.177	2.139	7.5	18.8
2 1	7 10.85	+11 56.9	1.208	2.138	11.5	19.1
2 11	7 5.28	+13 51.5	1.263	2.139	15.9	19.3

336509 2008 WS_{125} 1 11.6 67°.93 1°.9/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.91	+11 21.0	2.243	2.983	14.5	20.3
12 13	7 51.74	+12 10.9	2.167	3.004	11.7	20.2
12 23	7 45.42	+13 14.6	2.113	3.026	8.3	20.0
1 2	7 37.44	+14 29.5	2.086	3.047	4.7	19.8
1 12	7 28.61	+15 51.7	2.089	3.069	1.9	19.7
1 22	7 19.84	+17 16.0	2.123	3.090	4.1	19.9
2 1	7 12.04	+18 37.8	2.188	3.112	7.5	20.1
2 11	7 5.98	+19 53.3	2.280	3.133	10.7	20.3

21658 1999 PA_{2} 1 11.6 209°.95 1°.6/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.66	+24 7.4	1.703	2.474	17.2	19.5
12 13	7 59.14	+24 31.3	1.609	2.469	13.8	19.3
12 23	7 51.31	+25 0.9	1.535	2.463	9.7	19.0
1 2	7 40.71	+25 31.8	1.487	2.456	5.0	18.7
1 12	7 28.48	+25 58.4	1.467	2.449	1.7	18.5
1 22	7 16.11	+26 16.5	1.476	2.441	5.8	18.7
2 1	7 5.19	+26 24.2	1.513	2.432	10.6	19.0
2 11	6 56.98	+26 22.3	1.574	2.423	14.8	19.2

99399 2002 AJ_{31} 1 11.6 245°.69 4°.7/ 9.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.13	+31 41.0	2.176	2.945	14.0	19.4
12 13	7 55.11	+32 54.3	2.081	2.937	11.3	19.2
12 23	7 48.29	+34 9.9	2.010	2.929	8.3	19.0
1 2	7 39.13	+35 21.1	1.966	2.921	5.6	18.8
1 12	7 28.54	+36 21.0	1.950	2.913	4.9	18.8
1 22	7 17.74	+37 4.5	1.964	2.904	7.0	18.9
2 1	7 8.03	+37 29.5	2.005	2.895	10.1	19.1
2 11	7 0.52	+37 37.3	2.071	2.887	13.1	19.2

63759 2001 QB_{280} 1 11.6 26°.48 1°.3/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.26	+22 45.2	1.834	2.617	15.7	18.5
12 13	7 51.17	+23 20.6	1.760	2.628	12.4	18.3
12 23	7 45.41	+24 2.5	1.707	2.639	8.6	18.1
1 2	7 37.56	+24 46.8	1.680	2.650	4.3	17.8
1 12	7 28.63	+25 28.7	1.681	2.663	1.4	17.6
1 22	7 19.78	+26 4.2	1.710	2.676	5.0	17.9
2 1	7 12.20	+26 30.8	1.766	2.689	9.1	18.2
2 11	7 6.81	+26 48.1	1.847	2.703	12.6	18.4

420998 2013 PP_{44} 1 11.6 176°.74 0°.1/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.31	+21 39.9	2.172	2.932	14.3	21.4
12 13	7 54.68	+21 33.2	2.080	2.933	11.4	21.2
12 23	7 47.60	+21 30.4	2.009	2.934	7.9	21.0
1 2	7 38.61	+21 29.4	1.966	2.934	4.0	20.8
1 12	7 28.59	+21 28.1	1.951	2.935	0.2	20.4
1 22	7 18.61	+21 24.9	1.967	2.935	4.3	20.8
2 1	7 9.74	+21 19.0	2.012	2.934	8.2	21.0
2 11	7 2.85	+21 10.5	2.084	2.934	11.6	21.2

51100 2000 HQ_{10} 1 11.6 184°.40 0°.6/11.4 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.66	+22 20.8	2.621	3.378	12.2	19.3
12 13	7 51.43	+22 39.6	2.525	3.378	9.7	19.1
12 23	7 45.18	+23 2.4	2.453	3.377	6.7	18.9
1 2	7 37.34	+23 27.0	2.408	3.377	3.4	18.7
1 12	7 28.64	+23 50.5	2.393	3.376	0.6	18.4
1 22	7 19.92	+24 10.7	2.409	3.375	3.8	18.7
2 1	7 12.04	+24 26.1	2.455	3.374	7.1	18.9
2 11	7 5.74	+24 36.1	2.528	3.372	10.0	19.1

120481 Johannwalter 1 11.6 159°.44 0°.8/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.09	+22 53.1	2.078	2.837	14.9	21.5
12 13	7 57.02	+23 10.4	1.991	2.844	11.9	21.3
12 23	7 49.29	+23 32.3	1.926	2.850	8.2	21.1
1 2	7 39.48	+23 55.5	1.887	2.856	4.1	20.8
1 12	7 28.56	+24 16.3	1.878	2.861	0.9	20.6
1 22	7 17.69	+24 31.8	1.900	2.866	4.7	20.9
2 1	7 8.03	+24 40.6	1.951	2.869	8.6	21.1
2 11	7 0.55	+24 42.8	2.028	2.872	12.1	21.4

522078 2015 XF_{420} 1 11.6 238°.89 3°.5/12.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.22	+11 56.6	2.248	2.988	14.4	21.8
12 13	7 52.17	+11 30.6	2.145	2.980	11.8	21.6
12 23	7 45.87	+11 13.6	2.063	2.970	8.8	21.4
1 2	7 37.76	+11 6.3	2.007	2.961	5.6	21.2
1 12	7 28.63	+11 8.6	1.980	2.952	3.5	21.1
1 22	7 19.39	+11 19.2	1.982	2.942	5.2	21.2
2 1	7 11.04	+11 36.4	2.013	2.932	8.4	21.3
2 11	7 4.42	+11 58.0	2.071	2.921	11.7	21.5

15946 Satinský 1 11.6 116°.40 0°.5/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 58.07	+21 3.8	2.027	2.793	15.0	19.4
12 13	7 53.89	+21 29.9	1.944	2.801	11.9	19.2
12 23	7 47.16	+22 2.7	1.883	2.809	8.2	19.0
1 2	7 38.42	+22 39.0	1.848	2.818	4.1	18.8
1 12	7 28.61	+23 15.0	1.842	2.825	0.5	18.5
1 22	7 18.83	+23 46.9	1.866	2.833	4.6	18.8
2 1	7 10.22	+24 12.7	1.919	2.841	8.5	19.1
2 11	7 3.69	+24 31.4	1.997	2.848	12.0	19.3

153741 2001 UE_{145} 1 11.6 131°.41 1°.3/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.09	+17 23.8	1.827	2.584	16.7	21.4
12 13	7 57.20	+17 28.3	1.748	2.598	13.4	21.2
12 23	7 49.50	+17 41.8	1.690	2.611	9.4	20.9
1 2	7 39.60	+18 2.3	1.657	2.624	5.0	20.7
1 12	7 28.57	+18 26.8	1.654	2.636	1.3	20.5
1 22	7 17.66	+18 52.0	1.679	2.647	4.9	20.8
2 1	7 8.12	+19 15.6	1.734	2.658	9.2	21.0
2 11	7 0.92	+19 36.2	1.814	2.668	12.9	21.3

153475 2001 RR_{45} 1 11.6 167°.85 0°.8/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.77	+18 17.8	1.920	2.677	16.0	21.3
12 13	7 56.97	+18 29.3	1.831	2.682	12.8	21.1
12 23	7 49.40	+18 49.3	1.764	2.686	9.0	20.9
1 2	7 39.60	+19 15.6	1.722	2.690	4.7	20.6
1 12	7 28.58	+19 44.7	1.710	2.693	0.8	20.3
1 22	7 17.56	+20 13.2	1.727	2.695	4.8	20.6
2 1	7 7.77	+20 38.7	1.773	2.696	9.1	20.9
2 11	7 0.23	+20 59.9	1.845	2.696	12.8	21.1

464035 2014 WZ_{160} 1 11.6 141°.27 3°.7/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.63	+10 36.9	2.049	2.793	15.5	21.9
12 13	7 51.85	+10 27.6	1.960	2.796	12.7	21.7
12 23	7 45.71	+10 30.6	1.891	2.799	9.4	21.5
1 2	7 37.70	+10 46.4	1.847	2.801	6.0	21.3
1 12	7 28.67	+11 13.6	1.831	2.804	3.7	21.2
1 22	7 19.62	+11 49.7	1.844	2.806	5.3	21.3
2 1	7 11.58	+12 31.7	1.886	2.808	8.7	21.5
2 11	7 5.41	+13 16.0	1.954	2.810	12.0	21.7

417042 2005 UL_{122} 1 11.6 90°.98 2°.4/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.13	+15 11.0	1.945	2.703	15.8	20.8
12 13	7 53.13	+14 56.2	1.861	2.710	12.7	20.6
12 23	7 46.63	+14 50.4	1.798	2.717	9.1	20.4
1 2	7 38.16	+14 53.2	1.760	2.723	5.2	20.1
1 12	7 28.66	+15 3.2	1.751	2.730	2.4	20.0
1 22	7 19.21	+15 18.2	1.770	2.736	4.9	20.1
2 1	7 10.93	+15 36.2	1.818	2.742	8.7	20.4
2 11	7 4.69	+15 55.2	1.891	2.749	12.3	20.6

46589 1992 WU 1 11.6 54°.34 3°.8/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.69	+14 41.9	1.212	2.000	21.9	17.7
12 13	7 57.14	+14 8.4	1.154	2.019	17.7	17.5
12 23	7 49.95	+13 48.6	1.113	2.039	12.7	17.2
1 2	7 39.94	+13 42.8	1.094	2.058	7.4	17.0
1 12	7 28.59	+13 49.5	1.100	2.078	3.8	16.8
1 22	7 17.64	+14 5.5	1.132	2.099	6.8	17.1
2 1	7 8.70	+14 27.4	1.188	2.119	11.6	17.4
2 11	7 2.89	+14 51.8	1.267	2.140	16.0	17.7

301969 2000 FP_{9} 1 11.6 213°.69 1°.8/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.04	+24 53.4	1.986	2.749	15.4	22.3
12 13	7 58.21	+25 20.7	1.886	2.741	12.3	22.1
12 23	7 50.43	+25 52.5	1.807	2.732	8.6	21.9
1 2	7 40.23	+26 24.7	1.755	2.723	4.5	21.6
1 12	7 28.58	+26 52.2	1.732	2.713	1.8	21.4
1 22	7 16.77	+27 11.2	1.739	2.702	5.4	21.6
2 1	7 6.16	+27 20.1	1.775	2.690	9.6	21.8
2 11	6 57.89	+27 19.5	1.836	2.678	13.3	22.0

453821 2011 SJ_{123} 1 11.6 100°.21 1°.1/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.32	+22 15.0	1.734	2.504	17.0	22.0
12 13	7 57.59	+22 46.8	1.664	2.524	13.4	21.8
12 23	7 49.86	+23 25.2	1.616	2.543	9.3	21.6
1 2	7 39.82	+24 6.0	1.592	2.562	4.7	21.4
1 12	7 28.60	+24 43.9	1.598	2.580	1.1	21.1
1 22	7 17.59	+25 14.7	1.632	2.598	5.2	21.5
2 1	7 8.12	+25 36.4	1.695	2.616	9.5	21.8
2 11	7 1.17	+25 49.1	1.782	2.632	13.3	22.0

308219 2005 EW_{158} 1 11.6 33°.60 3°.6/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.79	+13 14.3	1.363	2.146	20.1	20.8
12 13	7 53.07	+13 0.7	1.294	2.156	16.3	20.6
12 23	7 47.10	+13 2.3	1.244	2.167	11.8	20.4
1 2	7 38.54	+13 19.0	1.216	2.179	7.0	20.1
1 12	7 28.65	+13 48.4	1.213	2.191	3.6	20.0
1 22	7 18.91	+14 26.7	1.236	2.203	6.3	20.2
2 1	7 10.78	+15 9.1	1.285	2.217	10.9	20.5
2 11	7 5.40	+15 51.6	1.357	2.231	15.1	20.7

379689 2011 FY_{46} 1 11.6 205°.39 1°.5/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 55.30	+16 31.9	2.366	3.118	13.5	21.8
12 13	7 51.33	+16 30.1	2.269	3.116	10.8	21.6
12 23	7 45.21	+16 35.5	2.195	3.114	7.7	21.4
1 2	7 37.42	+16 47.3	2.148	3.112	4.2	21.2
1 12	7 28.70	+17 3.6	2.129	3.110	1.5	21.0
1 22	7 19.95	+17 22.4	2.141	3.108	4.1	21.2
2 1	7 12.08	+17 42.0	2.182	3.105	7.6	21.4
2 11	7 5.89	+18 0.7	2.250	3.103	10.8	21.6

284011 2004 TZ_{206} 1 11.6 55°.90 0°.6/11.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.50	+19 26.3	1.342	2.131	20.1	20.7
12 13	7 56.80	+19 31.7	1.281	2.151	16.0	20.5
12 23	7 49.62	+19 46.9	1.240	2.171	11.1	20.2
1 2	7 39.76	+20 8.9	1.222	2.192	5.6	20.0
1 12	7 28.61	+20 33.3	1.229	2.213	0.6	19.7
1 22	7 17.82	+20 55.9	1.264	2.234	5.7	20.1
2 1	7 8.93	+21 14.3	1.325	2.255	10.8	20.5
2 11	7 3.00	+21 27.5	1.408	2.276	15.1	20.8

292614 2006 TO_{129} 1 11.6 212°.16 7°.7/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.74	+ 2 9.1	2.047	2.756	16.6	21.3
12 13	7 52.75	+ 1 9.0	1.953	2.752	14.2	21.2
12 23	7 46.36	+ 0 23.5	1.878	2.748	11.6	21.0
1 2	7 38.07	− 0 3.6	1.827	2.744	9.1	20.8
1 12	7 28.68	− 0 10.2	1.802	2.739	7.7	20.7
1 22	7 19.20	+ 0 3.9	1.805	2.734	8.4	20.7
2 1	7 10.68	+ 0 36.3	1.835	2.729	10.6	20.9
2 11	7 4.02	+ 1 22.5	1.889	2.724	13.3	21.0

426862 2013 WJ_{5} 1 11.6 41°.54 2°.2/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.55	+12 43.9	2.133	2.886	14.8	20.5
12 13	7 50.15	+13 5.9	2.047	2.892	11.9	20.3
12 23	7 44.51	+13 40.4	1.981	2.898	8.6	20.1
1 2	7 37.10	+14 26.0	1.942	2.904	4.9	19.9
1 12	7 28.73	+15 19.8	1.931	2.911	2.2	19.7
1 22	7 20.35	+16 18.0	1.950	2.917	4.4	19.9
2 1	7 12.92	+17 16.8	1.999	2.924	8.0	20.1
2 11	7 7.27	+18 12.7	2.073	2.932	11.3	20.3

235558 2004 FD_{51} 1 11.6 236°.63 3°.6/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.71	+ 8 27.4	2.696	3.420	12.7	21.0
12 13	7 49.00	+ 8 20.0	2.591	3.413	10.5	20.8
12 23	7 43.48	+ 8 23.3	2.509	3.406	7.9	20.6
1 2	7 36.52	+ 8 37.8	2.452	3.398	5.3	20.4
1 12	7 28.76	+ 9 2.9	2.425	3.391	3.7	20.3
1 22	7 20.91	+ 9 36.9	2.427	3.383	4.7	20.4
2 1	7 13.74	+10 17.5	2.459	3.375	7.2	20.5
2 11	7 7.94	+11 1.7	2.518	3.367	9.9	20.7

497114 2004 EF_{51} 1 11.6 248°.96 5°.3/ 9.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.35	+39 3.2	2.736	3.484	11.9	22.4
12 13	7 56.32	+39 42.1	2.635	3.471	9.9	22.2
12 23	7 48.80	+40 16.4	2.558	3.457	7.7	22.1
1 2	7 39.28	+40 40.7	2.507	3.443	5.8	21.9
1 12	7 28.66	+40 50.5	2.485	3.429	5.4	21.9
1 22	7 18.00	+40 43.3	2.492	3.415	6.7	22.0
2 1	7 8.38	+40 19.3	2.528	3.401	8.9	22.1
2 11	7 0.75	+39 41.0	2.589	3.386	11.3	22.2

247661 2002 XF_{69} 1 11.6 54°.54 17°.3/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 41.95	+65 49.4	1.663	2.333	21.1	19.1
12 13	8 34.38	+67 27.4	1.634	2.355	19.7	19.0
12 23	8 18.01	+68 40.0	1.619	2.377	18.4	19.0
1 2	7 54.40	+69 10.1	1.621	2.400	17.5	19.0
1 12	7 28.12	+68 45.2	1.642	2.422	17.3	19.0
1 22	7 4.75	+67 25.2	1.682	2.445	17.6	19.1
2 1	6 48.09	+65 21.1	1.740	2.468	18.4	19.2
2 11	6 39.12	+62 49.3	1.817	2.491	19.5	19.4

144765 2004 HH_{17} 1 11.6 333°.57 6°.6/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.24	+ 6 9.9	1.473	2.238	19.7	19.3
12 13	7 49.50	+ 5 45.6	1.381	2.225	16.6	19.0
12 23	7 44.77	+ 5 41.2	1.306	2.212	13.0	18.8
1 2	7 37.52	+ 6 0.1	1.253	2.200	9.2	18.5
1 12	7 28.72	+ 6 42.8	1.224	2.188	6.7	18.3
1 22	7 19.69	+ 7 46.4	1.220	2.178	7.9	18.4
2 1	7 11.85	+ 9 4.8	1.242	2.169	11.7	18.6
2 11	7 6.45	+10 30.6	1.286	2.160	15.8	18.8

284228 2006 DZ_{53} 1 11.6 65°.75 1°.5/12.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.91	+17 29.7	1.398	2.179	19.8	21.3
12 13	7 56.96	+17 29.9	1.336	2.200	15.8	21.1
12 23	7 49.67	+17 41.4	1.292	2.220	11.1	20.9
1 2	7 39.78	+18 1.8	1.272	2.241	5.8	20.6
1 12	7 28.65	+18 27.3	1.279	2.261	1.5	20.4
1 22	7 17.84	+18 54.0	1.312	2.282	5.6	20.7
2 1	7 8.83	+19 18.8	1.372	2.302	10.5	21.1
2 11	7 2.68	+19 40.0	1.456	2.323	14.7	21.4

122376 2000 QO_{65} 1 11.6 113°.45 0°.1/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.23	+19 28.5	2.366	3.116	13.5	20.6
12 13	7 54.30	+20 1.7	2.290	3.137	10.7	20.5
12 23	7 47.16	+20 41.6	2.236	3.158	7.4	20.3
1 2	7 38.36	+21 25.3	2.210	3.179	3.7	20.1
1 12	7 28.71	+22 9.1	2.215	3.198	0.2	19.8
1 22	7 19.16	+22 49.8	2.251	3.217	3.9	20.2
2 1	7 10.64	+23 25.1	2.317	3.236	7.4	20.4
2 11	7 3.92	+23 53.9	2.410	3.253	10.5	20.6

56070 1998 YQ_{5} 1 11.6 19°.08 0°.8/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.56	+23 7.6	1.250	2.054	20.5	18.0
12 13	7 55.89	+23 10.1	1.178	2.057	16.4	17.7
12 23	7 49.43	+23 18.9	1.125	2.061	11.4	17.4
1 2	7 39.86	+23 30.4	1.094	2.066	5.8	17.1
1 12	7 28.64	+23 39.6	1.088	2.072	0.9	16.8
1 22	7 17.59	+23 43.1	1.108	2.078	6.3	17.2
2 1	7 8.48	+23 39.4	1.153	2.085	11.8	17.5
2 11	7 2.62	+23 29.5	1.219	2.092	16.5	17.8

166114 2002 CH_{205} 1 11.6 154°.34 2°.4/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.84	+26 55.2	1.767	2.540	16.6	20.6
12 13	7 58.25	+27 16.7	1.683	2.544	13.2	20.4
12 23	7 50.51	+27 40.6	1.621	2.548	9.3	20.2
1 2	7 40.25	+28 2.0	1.584	2.552	5.0	20.0
1 12	7 28.63	+28 16.0	1.575	2.555	2.5	19.8
1 22	7 17.10	+28 19.3	1.595	2.557	5.8	20.0
2 1	7 7.08	+28 11.3	1.643	2.560	10.1	20.3
2 11	6 59.70	+27 53.9	1.715	2.562	13.9	20.5

495031 2010 VK_{57} 1 11.7 85°.20 1°.8/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.64	+16 4.8	1.833	2.597	16.4	22.0
12 13	7 53.72	+16 5.0	1.754	2.607	13.2	21.8
12 23	7 47.14	+16 15.2	1.695	2.617	9.3	21.6
1 2	7 38.47	+16 33.9	1.661	2.627	5.1	21.3
1 12	7 28.72	+16 58.6	1.655	2.637	1.8	21.1
1 22	7 19.04	+17 26.4	1.679	2.646	4.8	21.3
2 1	7 10.62	+17 54.4	1.730	2.656	9.0	21.6
2 11	7 4.39	+18 20.6	1.806	2.666	12.7	21.9

452352 2001 TV_{212} 1 11.7 74°.34 5°.8/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.24	+ 7 28.3	1.818	2.555	17.5	21.3
12 13	7 53.95	+ 6 41.3	1.749	2.575	14.5	21.1
12 23	7 47.13	+ 6 8.5	1.700	2.595	11.1	20.9
1 2	7 38.39	+ 5 52.1	1.674	2.615	7.8	20.8
1 12	7 28.73	+ 5 52.5	1.676	2.635	5.9	20.7
1 22	7 19.27	+ 6 8.2	1.705	2.655	6.9	20.8
2 1	7 11.08	+ 6 36.2	1.762	2.675	9.8	21.0
2 11	7 5.02	+ 7 12.5	1.844	2.694	12.9	21.2

205023 1998 BF_{5} 1 11.7 284°.85 3°.0/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.16	+ 9 54.8	2.394	3.130	13.8	20.1
12 13	7 49.77	+10 13.7	2.280	3.113	11.3	19.9
12 23	7 44.27	+10 45.9	2.189	3.096	8.4	19.6
1 2	7 37.05	+11 31.4	2.123	3.079	5.2	19.4
1 12	7 28.78	+12 28.2	2.087	3.061	3.0	19.2
1 22	7 20.29	+13 33.0	2.080	3.044	4.6	19.3
2 1	7 12.50	+14 42.0	2.104	3.027	7.8	19.5
2 11	7 6.25	+15 51.1	2.154	3.009	11.1	19.6

155406 1995 VS_{9} 1 11.7 289°.48 1°.9/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.33	+24 8.1	1.435	2.226	18.9	20.8
12 13	7 57.09	+24 32.6	1.350	2.222	15.2	20.5
12 23	7 50.23	+25 3.8	1.285	2.218	10.6	20.2
1 2	7 40.33	+25 36.9	1.243	2.214	5.5	19.9
1 12	7 28.66	+26 5.8	1.228	2.210	1.9	19.7
1 22	7 16.90	+26 25.5	1.239	2.206	6.4	20.0
2 1	7 6.82	+26 33.8	1.276	2.202	11.6	20.3
2 11	6 59.79	+26 31.6	1.336	2.198	16.1	20.5

332085 2005 UQ_{43} 1 11.7 354°.73 7°.3/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.27	+ 7 52.4	1.572	2.331	18.9	20.2
12 13	7 51.52	+ 6 36.1	1.488	2.327	15.9	20.0
12 23	7 45.90	+ 5 32.4	1.423	2.324	12.5	19.7
1 2	7 37.97	+ 4 45.7	1.380	2.321	9.1	19.5
1 12	7 28.75	+ 4 19.0	1.363	2.320	7.3	19.4
1 22	7 19.50	+ 4 12.8	1.371	2.319	8.5	19.5
2 1	7 11.54	+ 4 25.3	1.405	2.319	11.7	19.7
2 11	7 5.91	+ 4 52.1	1.461	2.320	15.2	19.9

125778 2001 XV_{144} 1 11.7 263°.31 3°.4/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.59	+14 20.7	1.601	2.369	18.3	20.1
12 13	7 55.07	+13 53.4	1.509	2.363	14.9	19.9
12 23	7 48.47	+13 36.7	1.437	2.357	10.9	19.6
1 2	7 39.32	+13 31.1	1.389	2.351	6.5	19.4
1 12	7 28.70	+13 35.9	1.367	2.345	3.4	19.2
1 22	7 17.97	+13 49.1	1.373	2.338	6.1	19.3
2 1	7 8.57	+14 8.2	1.405	2.332	10.6	19.5
2 11	7 1.68	+14 30.5	1.462	2.326	14.8	19.8

293303 2007 DY_{30} 1 11.7 31°.94 0°.8/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 57.23	+22 40.6	1.654	2.439	17.1	20.9
12 13	7 53.85	+22 53.4	1.578	2.445	13.6	20.7
12 23	7 47.47	+23 12.0	1.521	2.453	9.4	20.5
1 2	7 38.71	+23 33.1	1.490	2.460	4.7	20.2
1 12	7 28.72	+23 52.4	1.485	2.468	0.8	20.0
1 22	7 18.85	+24 6.9	1.509	2.477	5.3	20.3
2 1	7 10.42	+24 14.7	1.559	2.486	9.8	20.6
2 11	7 4.50	+24 15.9	1.634	2.495	13.7	20.8

82587 2001 OK_{88} 1 11.7 57°.94 3°.3/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.39	+ 9 19.0	2.254	2.992	14.5	19.6
12 13	7 49.88	+ 9 32.1	2.164	2.996	11.9	19.4
12 23	7 44.26	+ 9 58.6	2.095	3.001	8.8	19.2
1 2	7 36.98	+10 38.4	2.052	3.006	5.6	19.0
1 12	7 28.79	+11 29.5	2.038	3.011	3.4	18.9
1 22	7 20.57	+12 28.5	2.053	3.015	4.7	19.0
2 1	7 13.23	+13 31.4	2.098	3.020	7.9	19.2
2 11	7 7.54	+14 34.6	2.169	3.025	11.0	19.4

37181 2000 WS_{49} 1 11.7 324°.54 2°.9/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.63	+10 55.1	1.951	2.702	16.0	19.2
12 13	7 51.33	+11 17.2	1.857	2.700	13.1	19.0
12 23	7 45.55	+11 54.7	1.784	2.698	9.5	18.7
1 2	7 37.75	+12 46.8	1.736	2.696	5.7	18.5
1 12	7 28.77	+13 50.5	1.716	2.694	2.9	18.3
1 22	7 19.68	+15 1.3	1.726	2.692	5.0	18.5
2 1	7 11.58	+16 14.3	1.764	2.690	8.8	18.7
2 11	7 5.44	+17 24.9	1.828	2.688	12.5	18.9

489086 2006 BU_{12} 1 11.7 335°.42 1°.9/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.02	+26 2.9	1.210	2.022	20.6	20.9
12 13	7 55.18	+25 57.8	1.126	2.009	16.6	20.6
12 23	7 49.32	+25 55.0	1.059	1.997	11.7	20.2
1 2	7 40.02	+25 50.3	1.014	1.986	6.1	19.9
1 12	7 28.69	+25 38.8	0.993	1.975	1.9	19.6
1 22	7 17.26	+25 17.6	0.997	1.966	7.0	19.9
2 1	7 7.75	+24 47.1	1.025	1.958	12.8	20.2
2 11	7 1.69	+24 9.9	1.073	1.951	17.9	20.4

59627 1999 JH_{76} 1 11.7 150°.38 4°.6/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.08	+ 8 11.9	2.362	3.083	14.3	19.2
12 13	7 52.58	+ 7 38.8	2.272	3.091	11.8	19.1
12 23	7 46.00	+ 7 16.5	2.204	3.098	9.0	18.9
1 2	7 37.81	+ 7 6.3	2.162	3.104	6.2	18.7
1 12	7 28.78	+ 7 8.2	2.149	3.110	4.6	18.6
1 22	7 19.78	+ 7 21.4	2.165	3.115	5.6	18.7
2 1	7 11.69	+ 7 43.7	2.210	3.121	8.2	18.9
2 11	7 5.25	+ 8 12.5	2.282	3.125	11.0	19.1

279413 2010 FH_{22} 1 11.7 214°.93 3°.6/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.05	+28 32.4	1.853	2.624	16.0	21.3
12 13	7 58.58	+29 17.2	1.759	2.618	12.9	21.1
12 23	7 50.91	+30 5.2	1.687	2.612	9.2	20.8
1 2	7 40.58	+30 50.3	1.640	2.605	5.4	20.6
1 12	7 28.68	+31 26.0	1.622	2.597	3.6	20.5
1 22	7 16.63	+31 47.5	1.633	2.589	6.5	20.6
2 1	7 5.94	+31 53.3	1.671	2.580	10.5	20.8
2 11	6 57.85	+31 45.2	1.734	2.571	14.2	21.1

105202 2000 OJ_{40} 1 11.7 179°.56 4°.2/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.87	+ 4 53.0	3.082	3.782	11.7	21.0
12 13	7 48.81	+ 4 42.0	2.982	3.783	9.8	20.9
12 23	7 43.18	+ 4 41.9	2.904	3.784	7.6	20.8
1 2	7 36.34	+ 4 53.5	2.853	3.784	5.5	20.6
1 12	7 28.84	+ 5 16.4	2.831	3.784	4.2	20.5
1 22	7 21.31	+ 5 49.4	2.839	3.784	4.8	20.6
2 1	7 14.39	+ 6 30.4	2.877	3.783	6.8	20.7
2 11	7 8.65	+ 7 16.5	2.943	3.781	9.0	20.8

413373 2004 GQ_{52} 1 11.7 253°.49 3°.8/10.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.00	+29 31.4	1.920	2.695	15.4	21.8
12 13	7 56.05	+30 16.5	1.827	2.687	12.4	21.6
12 23	7 49.09	+31 3.9	1.755	2.680	8.9	21.4
1 2	7 39.63	+31 47.6	1.709	2.672	5.3	21.1
1 12	7 28.72	+32 21.6	1.692	2.665	3.9	21.0
1 22	7 17.68	+32 41.5	1.703	2.657	6.5	21.2
2 1	7 7.93	+32 45.9	1.741	2.649	10.2	21.4
2 11	7 0.62	+32 36.3	1.804	2.641	13.8	21.6

320470 2007 VC_{292} 1 11.7 122°.77 0°.2/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.51	+21 7.4	2.784	3.536	11.7	21.9
12 13	7 51.11	+21 26.9	2.699	3.548	9.2	21.7
12 23	7 44.85	+21 50.9	2.638	3.561	6.4	21.6
1 2	7 37.19	+22 16.9	2.604	3.573	3.2	21.4
1 12	7 28.82	+22 42.7	2.601	3.584	0.3	21.1
1 22	7 20.49	+23 6.0	2.629	3.596	3.5	21.4
2 1	7 12.98	+23 25.3	2.688	3.607	6.5	21.6
2 11	7 6.94	+23 40.1	2.774	3.618	9.3	21.8

472478 2015 BT_{486} 1 11.7 245°.12 3°.6/13.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 53.85	+ 6 30.6	2.916	3.624	12.1	22.3
12 13	7 49.84	+ 6 42.7	2.797	3.608	10.1	22.2
12 23	7 44.07	+ 7 7.1	2.701	3.591	7.7	22.0
1 2	7 36.88	+ 7 44.1	2.631	3.574	5.3	21.8
1 12	7 28.83	+ 8 32.8	2.591	3.556	3.6	21.7
1 22	7 20.61	+ 9 30.8	2.583	3.537	4.5	21.7
2 1	7 12.95	+10 35.1	2.605	3.519	7.0	21.8
2 11	7 6.53	+11 42.3	2.655	3.500	9.6	22.0

357597 2004 XM_{80} 1 11.7 40°.65 0°.0/11.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.80	+19 24.2	1.267	2.066	20.6	20.6
12 13	7 55.01	+19 48.9	1.206	2.081	16.4	20.4
12 23	7 48.63	+20 25.4	1.163	2.097	11.3	20.1
1 2	7 39.40	+21 9.7	1.143	2.114	5.7	19.9
1 12	7 28.74	+21 55.7	1.148	2.131	0.2	19.5
1 22	7 18.33	+22 37.7	1.179	2.149	6.0	20.0
2 1	7 9.81	+23 11.9	1.235	2.167	11.2	20.3
2 11	7 4.35	+23 36.9	1.314	2.186	15.7	20.6

203484 2002 AB_{54} 1 11.7 346°.38 0°.5/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.96	+20 39.2	1.319	2.118	19.9	20.5
12 13	7 54.53	+20 30.9	1.237	2.113	16.0	20.3
12 23	7 48.50	+20 30.6	1.174	2.108	11.3	20.0
1 2	7 39.47	+20 36.0	1.133	2.104	5.8	19.6
1 12	7 28.73	+20 43.7	1.118	2.101	0.5	19.3
1 22	7 17.96	+20 50.6	1.128	2.098	6.1	19.6
2 1	7 8.89	+20 54.5	1.163	2.097	11.6	19.9
2 11	7 2.86	+20 55.0	1.220	2.096	16.4	20.2

486925 2014 MQ_{21} 1 11.7 178°.72 2°.1/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.18	+16 7.1	1.929	2.681	16.1	22.3
12 13	7 56.48	+15 54.3	1.837	2.683	13.0	22.1
12 23	7 49.08	+15 49.9	1.766	2.684	9.3	21.9
1 2	7 39.51	+15 53.2	1.721	2.685	5.2	21.7
1 12	7 28.74	+16 2.4	1.705	2.685	2.1	21.4
1 22	7 17.96	+16 15.5	1.718	2.684	5.0	21.6
2 1	7 8.38	+16 30.3	1.760	2.683	9.1	21.9
2 11	7 0.98	+16 45.5	1.828	2.681	12.9	22.1

134290 2006 DX_{2} 1 11.7 244°.35 0°.6/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.92	+21 54.4	1.565	2.347	18.0	20.6
12 13	7 56.33	+22 8.4	1.480	2.346	14.4	20.3
12 23	7 49.44	+22 29.8	1.415	2.345	10.1	20.1
1 2	7 39.85	+22 55.0	1.374	2.344	5.1	19.8
1 12	7 28.74	+23 19.4	1.360	2.343	0.7	19.4
1 22	7 17.58	+23 39.0	1.373	2.341	5.6	19.8
2 1	7 7.95	+23 51.5	1.414	2.340	10.6	20.1
2 11	7 1.04	+23 56.9	1.478	2.339	14.9	20.3

323156 2003 FM_{20} 1 11.7 0°.80 11°.2/ 7.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.77	+40 12.7	1.245	2.056	20.2	19.3
12 13	7 54.94	+42 5.8	1.183	2.052	17.0	19.1
12 23	7 49.60	+43 53.8	1.139	2.050	13.9	18.9
1 2	7 40.30	+45 22.8	1.116	2.050	11.6	18.8
1 12	7 28.71	+46 19.5	1.116	2.051	11.5	18.8
1 22	7 17.14	+46 36.9	1.138	2.054	13.5	18.9
2 1	7 7.95	+46 15.9	1.181	2.059	16.5	19.1
2 11	7 2.80	+45 24.3	1.243	2.065	19.6	19.3

221207 2005 UD_{74} 1 11.7 47°.85 2°.9/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.11	+14 2.9	1.763	2.528	17.0	20.1
12 13	7 52.60	+13 49.8	1.685	2.537	13.7	19.9
12 23	7 46.42	+13 47.8	1.627	2.546	9.9	19.7
1 2	7 38.16	+13 56.7	1.594	2.556	5.8	19.5
1 12	7 28.81	+14 14.7	1.588	2.566	2.9	19.3
1 22	7 19.55	+14 39.3	1.610	2.576	5.3	19.5
2 1	7 11.55	+15 7.5	1.659	2.586	9.2	19.8
2 11	7 5.74	+15 36.6	1.734	2.597	12.9	20.0

294473 2007 VP_{330} 1 11.7 208°.49 3°.0/12.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.43	+12 9.3	2.936	3.661	11.7	21.0
12 13	7 50.93	+11 36.7	2.830	3.656	9.6	20.8
12 23	7 44.71	+11 10.4	2.749	3.651	7.1	20.6
1 2	7 37.15	+10 50.9	2.694	3.646	4.5	20.5
1 12	7 28.86	+10 38.4	2.670	3.640	3.0	20.3
1 22	7 20.55	+10 32.4	2.677	3.634	4.2	20.4
2 1	7 12.92	+10 32.1	2.714	3.627	6.8	20.6
2 11	7 6.61	+10 36.2	2.779	3.620	9.3	20.7

363149 2001 SW_{7} 1 11.7 157°.04 1°.7/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.01	+25 35.8	2.343	3.099	13.5	22.5
12 13	7 55.94	+26 0.6	2.255	3.107	10.7	22.3
12 23	7 48.47	+26 28.0	2.190	3.114	7.4	22.1
1 2	7 39.13	+26 54.3	2.153	3.120	3.9	21.9
1 12	7 28.79	+27 15.9	2.146	3.126	1.7	21.7
1 22	7 18.51	+27 30.0	2.169	3.131	4.6	22.0
2 1	7 9.31	+27 35.7	2.223	3.136	8.0	22.2
2 11	7 2.05	+27 33.5	2.303	3.140	11.1	22.4

252283 2001 QK_{275} 1 11.7 124°.98 3°.4/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 0.22	+11 53.3	2.348	3.076	14.2	20.6
12 13	7 54.95	+11 22.4	2.267	3.095	11.6	20.4
12 23	7 47.56	+11 0.3	2.209	3.112	8.5	20.3
1 2	7 38.58	+10 47.2	2.177	3.129	5.4	20.1
1 12	7 28.82	+10 43.1	2.175	3.145	3.4	20.0
1 22	7 19.20	+10 46.6	2.203	3.161	4.9	20.1
2 1	7 10.61	+10 56.5	2.261	3.176	7.8	20.3
2 11	7 3.78	+11 10.7	2.347	3.190	10.7	20.5

459033 2011 YS_{53} 1 11.7 261°.62 1°.4/12.3 17

12 3	7 56.55	+14 57.1	1.837	2.600	16.4	22.0
12 13	7 53.17	+15 26.3	1.739	2.592	13.3	21.7
12 23	7 47.04	+16 9.2	1.662	2.585	9.5	21.5
1 2	7 38.62	+17 4.0	1.611	2.577	5.1	21.2
1 12	7 28.81	+18 6.7	1.587	2.569	1.4	20.9
1 22	7 18.80	+19 12.2	1.593	2.561	4.9	21.2
2 1	7 9.85	+20 15.6	1.627	2.554	9.4	21.4
2 11	7 3.07	+21 13.3	1.686	2.546	13.4	21.6

45484 2000 AV_{235} 1 11.7 231°.08 0°.7/11.9 18

12 3	7 55.96	+18 57.3	2.226	2.986	14.0	19.7
12 13	7 52.07	+19 0.9	2.131	2.984	11.2	19.5
12 23	7 45.87	+19 11.0	2.058	2.982	7.8	19.3
1 2	7 37.86	+19 25.8	2.012	2.980	4.1	19.1
1 12	7 28.85	+19 43.2	1.995	2.978	0.7	18.8
1 22	7 19.81	+20 0.7	2.007	2.976	4.1	19.1
2 1	7 11.73	+20 16.5	2.049	2.973	7.9	19.3
2 11	7 5.47	+20 29.7	2.117	2.971	11.3	19.5

179819 2002 TJ_{95} 1 11.7 76°.65 4°.4/13.1 18

12 3	7 57.16	+10 24.0	1.729	2.482	17.7	20.6
12 13	7 53.46	+10 1.9	1.650	2.492	14.5	20.4
12 23	7 47.05	+ 9 53.7	1.592	2.501	10.8	20.2
1 2	7 38.50	+10 0.2	1.557	2.511	6.9	20.0
1 12	7 28.83	+10 20.5	1.549	2.520	4.5	19.8
1 22	7 19.24	+10 52.0	1.569	2.530	6.1	20.0
2 1	7 10.91	+11 31.2	1.616	2.539	9.7	20.2
2 11	7 4.81	+12 14.1	1.688	2.549	13.4	20.4

442715 2012 UQ_{166} 1 11.7 133°.43 2°.0/12.2 18

12 3	8 5.47	+16 47.2	1.803	2.553	17.2	22.1
12 13	7 59.85	+16 30.5	1.725	2.570	13.8	21.9
12 23	7 51.35	+16 21.9	1.668	2.586	9.8	21.7
1 2	7 40.61	+16 20.4	1.637	2.601	5.4	21.5
1 12	7 28.77	+16 24.1	1.635	2.616	2.0	21.3
1 22	7 17.12	+16 30.8	1.663	2.629	5.1	21.5
2 1	7 6.95	+16 39.1	1.720	2.642	9.4	21.8
2 11	6 59.22	+16 47.7	1.802	2.653	13.1	22.1

39896 1998 FB_{16} 1 11.7 346°.31 5°.8/13.2 18

12 3	7 51.88	+10 39.2	1.254	2.045	21.2	17.5
12 13	7 50.51	+10 0.0	1.172	2.036	17.6	17.2
12 23	7 45.76	+ 9 37.2	1.107	2.028	13.3	16.9
1 2	7 38.15	+ 9 33.9	1.063	2.021	8.7	16.7
1 12	7 28.84	+ 9 50.6	1.042	2.015	5.8	16.5
1 22	7 19.39	+10 24.9	1.046	2.010	7.8	16.6
2 1	7 11.46	+11 12.0	1.073	2.007	12.3	16.8
2 11	7 6.37	+12 5.8	1.122	2.004	16.9	17.1

516156 2016 FP_{29} 1 11.7 30°.35 6°.3/ 9.3 18

12 3	8 0.97	+37 19.9	2.067	2.834	14.7	21.3
12 13	7 56.77	+38 19.6	1.986	2.835	12.1	21.1
12 23	7 49.53	+39 15.6	1.928	2.837	9.3	20.9
1 2	7 39.83	+40 0.8	1.896	2.838	6.9	20.8
1 12	7 28.79	+40 28.6	1.891	2.840	6.4	20.7
1 22	7 17.79	+40 35.5	1.913	2.841	8.1	20.8
2 1	7 8.21	+40 21.6	1.963	2.843	10.7	21.0
2 11	7 1.16	+39 50.3	2.036	2.845	13.5	21.2

36068 1999 RN_{51} 1 11.7 171°.76 2°.0/12.4 18

12 3	7 56.72	+15 5.6	2.295	3.042	14.0	20.0
12 13	7 52.50	+15 1.6	2.201	3.044	11.3	19.8
12 23	7 46.09	+15 5.8	2.129	3.045	8.1	19.6
1 2	7 37.95	+15 17.6	2.084	3.047	4.6	19.4
1 12	7 28.86	+15 35.4	2.068	3.048	2.0	19.2
1 22	7 19.76	+15 57.1	2.083	3.048	4.3	19.4
2 1	7 11.59	+16 20.5	2.126	3.049	7.8	19.6
2 11	7 5.16	+16 43.8	2.196	3.049	11.0	19.8

31620 1999 GB_{19} 1 11.7 326°.24 6°.0/ 9.1 18

12 3	7 58.19	+28 40.0	1.385	2.187	19.0	17.6
12 13	7 56.00	+30 20.8	1.303	2.179	15.3	17.3
12 23	7 49.95	+32 11.2	1.241	2.171	11.1	17.0
1 2	7 40.46	+34 1.0	1.202	2.164	7.2	16.8
1 12	7 28.77	+35 37.9	1.190	2.158	6.3	16.7
1 22	7 16.71	+36 51.5	1.203	2.151	9.4	16.9
2 1	7 6.33	+37 37.1	1.242	2.146	13.8	17.1
2 11	6 59.28	+37 56.6	1.301	2.140	17.9	17.4

370722 2004 RT_{56} 1 11.7 164°.23 5°.3/ 9.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 3.18	+36 49.6	2.420	3.174	13.2	21.1
12 13	7 57.96	+37 40.9	2.337	3.178	10.8	20.9
12 23	7 50.04	+38 28.6	2.276	3.182	8.2	20.8
1 2	7 39.99	+39 6.7	2.243	3.186	6.0	20.6
1 12	7 28.80	+39 29.9	2.238	3.189	5.4	20.6
1 22	7 17.66	+39 35.2	2.263	3.192	6.9	20.7
2 1	7 7.76	+39 22.8	2.316	3.194	9.4	20.9
2 11	7 0.06	+38 55.5	2.393	3.196	11.9	21.0

420493 2012 FG_{10} 1 11.7 273°.94 4°.9/ 9.2 18

12 3	7 59.97	+30 32.9	2.018	2.790	14.8	20.8
12 13	7 56.27	+31 53.6	1.911	2.769	12.0	20.5
12 23	7 49.51	+33 19.6	1.827	2.748	8.8	20.3
1 2	7 40.05	+34 43.8	1.769	2.727	5.9	20.1
1 12	7 28.81	+35 57.8	1.740	2.705	5.1	20.0
1 22	7 17.09	+36 55.0	1.741	2.683	7.6	20.1
2 1	7 6.39	+37 31.8	1.768	2.660	11.1	20.3
2 11	6 58.06	+37 48.8	1.820	2.638	14.5	20.4

165984 2001 YK_{109} 1 11.7 318°.66 1°.5/12.1 18

12 3	7 56.12	+16 47.1	1.423	2.211	19.2	20.0
12 13	7 53.66	+16 55.6	1.334	2.202	15.6	19.7
12 23	7 47.86	+17 17.3	1.264	2.194	11.1	19.4
1 2	7 39.21	+17 50.7	1.217	2.186	5.9	19.1
1 12	7 28.85	+18 32.1	1.195	2.178	1.5	18.8
1 22	7 18.28	+19 16.3	1.200	2.171	5.9	19.0
2 1	7 9.15	+19 58.9	1.231	2.164	11.2	19.3
2 11	7 2.79	+20 36.6	1.285	2.157	15.9	19.6

32678 7566 P–L 1 11.7 334°.48 5°.3/10.1 18

12 3	7 59.87	+30 37.3	1.419	2.217	18.8	18.2
12 13	7 57.09	+31 31.4	1.338	2.211	15.2	17.9
12 23	7 50.47	+32 28.0	1.277	2.206	11.0	17.6
1 2	7 40.58	+33 19.1	1.239	2.202	6.9	17.4
1 12	7 28.80	+33 55.8	1.227	2.198	5.4	17.3
1 22	7 16.94	+34 12.1	1.240	2.194	8.4	17.5
2 1	7 6.90	+34 6.9	1.278	2.191	12.7	17.7
2 11	7 0.14	+33 43.6	1.338	2.188	16.9	17.9

474699 2005 GV_{34} 1 11.7 285°.28 3°.2/13.1 16

12 3	7 55.42	+ 9 54.0	2.582	3.308	13.1	21.6
12 13	7 51.56	+ 9 58.5	2.446	3.271	10.9	21.4
12 23	7 45.60	+10 14.5	2.332	3.234	8.2	21.2
1 2	7 37.84	+10 42.6	2.244	3.196	5.3	20.9
1 12	7 28.90	+11 21.8	2.185	3.158	3.2	20.7
1 22	7 19.57	+12 10.0	2.158	3.118	4.7	20.7
2 1	7 10.78	+13 4.2	2.160	3.079	7.9	20.9
2 11	7 3.38	+14 1.2	2.190	3.039	11.2	21.0

37315 2001 QQ_{16} 1 11.7 110°.84 1°.2/11.3 18

12 3	8 2.75	+22 17.0	1.616	2.390	17.8	19.8
12 13	7 58.30	+22 50.1	1.543	2.405	14.2	19.6
12 23	7 50.63	+23 30.9	1.490	2.419	9.8	19.3
1 2	7 40.40	+24 14.5	1.462	2.432	5.0	19.1
1 12	7 28.82	+24 55.1	1.463	2.445	1.3	18.8
1 22	7 17.39	+25 28.2	1.491	2.458	5.6	19.2
2 1	7 7.56	+25 51.2	1.548	2.470	10.2	19.5
2 11	7 0.45	+26 4.4	1.628	2.482	14.2	19.7

174874 2004 BQ_{47} 1 11.7 269°.25 0°.1/11.7 18

12 3	7 56.74	+21 47.8	2.356	3.115	13.3	20.2
12 13	7 52.61	+21 41.4	2.253	3.107	10.6	20.0
12 23	7 46.23	+21 38.5	2.174	3.099	7.4	19.8
1 2	7 38.06	+21 37.3	2.122	3.090	3.8	19.5
1 12	7 28.91	+21 35.9	2.098	3.082	0.1	19.2
1 22	7 19.71	+21 32.8	2.106	3.073	4.0	19.5
2 1	7 11.44	+21 27.1	2.142	3.065	7.7	19.7
2 11	7 4.93	+21 18.8	2.205	3.056	11.0	19.9

407312 2010 NR_{53} 1 11.7 71°.39 6°.3/10.3 17

12 3	8 6.68	+36 47.2	1.714	2.485	17.1	20.7
12 13	8 1.52	+37 28.2	1.652	2.504	13.9	20.5
12 23	7 52.83	+38 3.4	1.610	2.522	10.4	20.3
1 2	7 41.43	+38 24.9	1.592	2.541	7.4	20.2
1 12	7 28.80	+38 26.5	1.602	2.560	6.3	20.2
1 22	7 16.61	+38 6.0	1.640	2.579	8.2	20.3
2 1	7 6.43	+37 25.6	1.704	2.597	11.3	20.5
2 11	6 59.31	+36 31.0	1.791	2.616	14.4	20.8

90674 1978 UD_{5} 1 11.7 14°.09 3°.5/12.4 18

12 3	7 54.48	+16 29.5	1.113	1.923	22.1	18.7
12 13	7 52.82	+15 48.0	1.049	1.928	17.9	18.5
12 23	7 47.39	+15 17.9	1.001	1.934	12.9	18.2
1 2	7 38.92	+15 0.2	0.974	1.941	7.4	17.9
1 12	7 28.88	+14 54.2	0.970	1.950	3.5	17.7
1 22	7 19.04	+14 57.8	0.990	1.960	6.9	18.0
2 1	7 11.14	+15 8.2	1.034	1.971	12.2	18.3
2 11	7 6.43	+15 22.2	1.099	1.984	17.0	18.6

422458 2014 SJ_{313} 1 11.7 136°.37 0°.8/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 58.70	+17 59.2	2.081	2.838	14.9	22.2
12 13	7 54.32	+18 11.5	1.996	2.846	11.9	22.0
12 23	7 47.48	+18 31.9	1.932	2.854	8.4	21.8
1 2	7 38.71	+18 58.2	1.895	2.862	4.4	21.6
1 12	7 28.91	+19 27.6	1.887	2.870	0.8	21.3
1 22	7 19.14	+19 56.9	1.909	2.877	4.3	21.6
2 1	7 10.49	+20 23.9	1.960	2.884	8.3	21.8
2 11	7 3.82	+20 46.9	2.037	2.890	11.7	22.1

311054 2004 CX_3 1 11.7 289°.25 2°.5/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.75	+26 57.7	1.733	2.514	16.6	21.0
12 13	7 56.20	+27 15.3	1.633	2.498	13.3	20.7
12 23	7 49.44	+27 35.7	1.554	2.483	9.4	20.5
1 2	7 39.97	+27 54.2	1.499	2.467	5.1	20.2
1 12	7 28.87	+28 5.9	1.471	2.451	2.5	20.0
1 22	7 17.57	+28 7.0	1.472	2.435	6.1	20.1
2 1	7 7.61	+27 56.6	1.500	2.420	10.6	20.4
2 11	7 0.26	+27 36.2	1.551	2.404	14.7	20.6

7376 Jefftaylor 1 11.7 160°.04 0°.4/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.60	+21 55.6	2.092	2.849	14.8	18.2
12 13	7 56.67	+22 8.6	2.004	2.856	11.8	18.0
12 23	7 49.14	+22 26.6	1.938	2.862	8.2	17.8
1 2	7 39.57	+22 46.8	1.898	2.867	4.1	17.6
1 12	7 28.90	+23 5.8	1.888	2.872	0.5	17.3
1 22	7 18.26	+23 20.8	1.909	2.876	4.5	17.6
2 1	7 8.81	+23 30.4	1.959	2.879	8.5	17.8
2 11	7 1.46	+23 34.5	2.035	2.882	12.0	18.1

494771 2006 JG_3 1 11.7 128°.44 0°.9/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.33	+23 48.4	2.944	3.692	11.2	22.9
12 13	7 52.45	+24 9.9	2.861	3.709	8.8	22.7
12 23	7 45.76	+24 34.0	2.802	3.725	6.1	22.6
1 2	7 37.71	+24 58.1	2.772	3.740	3.1	22.4
1 12	7 28.97	+25 19.9	2.773	3.755	0.9	22.2
1 22	7 20.30	+25 37.2	2.805	3.769	3.5	22.5
2 1	7 12.46	+25 49.0	2.869	3.783	6.4	22.7
2 11	7 6.08	+25 55.3	2.959	3.796	8.9	22.9

270930 2002 UW_{43} 1 11.7 166°.86 0°.4/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.82	+19 24.6	2.765	3.513	11.8	21.6
12 13	7 51.44	+19 34.0	2.670	3.516	9.4	21.4
12 23	7 45.17	+19 48.3	2.599	3.520	6.6	21.2
1 2	7 37.46	+20 6.0	2.555	3.522	3.4	21.0
1 12	7 28.98	+20 25.1	2.542	3.525	0.4	20.7
1 22	7 20.49	+20 43.6	2.560	3.527	3.4	21.0
2 1	7 12.78	+21 0.0	2.608	3.529	6.6	21.2
2 11	7 6.54	+21 13.4	2.684	3.530	9.5	21.4

16265 Lemay 1 11.7 76°.76 0°.4/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.52	+19 22.6	2.274	3.032	13.8	18.9
12 13	7 52.29	+19 31.9	2.198	3.050	10.9	18.7
12 23	7 45.88	+19 47.2	2.144	3.068	7.6	18.5
1 2	7 37.82	+20 6.5	2.118	3.086	3.9	18.3
1 12	7 28.97	+20 27.2	2.120	3.103	0.4	18.1
1 22	7 20.23	+20 47.1	2.153	3.121	3.9	18.4
2 1	7 12.54	+21 4.5	2.215	3.139	7.5	18.7
2 11	7 6.64	+21 18.3	2.304	3.156	10.6	18.9

363360 2002 RG_{246} 1 11.7 65°.60 1°.8/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.52	+24 42.2	1.588	2.370	17.8	21.7
12 13	7 57.29	+25 6.6	1.523	2.389	14.1	21.5
12 23	7 49.86	+25 35.4	1.479	2.409	9.7	21.3
1 2	7 39.97	+26 3.9	1.460	2.430	5.0	21.1
1 12	7 28.90	+26 26.8	1.468	2.450	1.9	20.9
1 22	7 18.12	+26 40.8	1.504	2.470	5.7	21.2
2 1	7 9.04	+26 44.7	1.568	2.490	10.1	21.5
2 11	7 2.69	+26 39.8	1.655	2.510	13.9	21.8

109751 2001 RR_{68} 1 11.7 34°.36 4°.7/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.65	+11 51.6	1.623	2.387	18.2	19.3
12 13	7 53.25	+11 6.8	1.547	2.395	14.9	19.1
12 23	7 47.01	+10 33.8	1.490	2.403	11.1	18.9
1 2	7 38.55	+10 14.3	1.456	2.411	7.2	18.7
1 12	7 28.94	+10 8.4	1.449	2.420	4.7	18.5
1 22	7 19.43	+10 15.0	1.469	2.429	6.5	18.7
2 1	7 11.29	+10 31.6	1.515	2.439	10.2	18.9
2 11	7 5.49	+10 54.8	1.586	2.449	13.9	19.1

183374 2002 XC_{25} 1 11.7 99°.19 0°.2/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.93	+21 0.3	1.945	2.707	15.7	20.8
12 13	7 56.16	+21 14.5	1.872	2.727	12.4	20.6
12 23	7 48.75	+21 34.8	1.821	2.746	8.6	20.4
1 2	7 39.33	+21 58.0	1.796	2.764	4.3	20.2
1 12	7 28.92	+22 20.8	1.799	2.783	0.2	19.9
1 22	7 18.70	+22 40.1	1.833	2.801	4.5	20.2
2 1	7 9.80	+22 54.4	1.896	2.818	8.6	20.5
2 11	7 3.11	+23 3.3	1.984	2.835	12.1	20.8

237182 2008 UZ_{194} 1 11.7 46°.56 0°.9/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 56.37	+22 56.5	2.033	2.806	14.7	20.8
12 13	7 52.62	+23 14.7	1.953	2.813	11.7	20.6
12 23	7 46.37	+23 37.6	1.894	2.822	8.1	20.4
1 2	7 38.18	+24 2.1	1.860	2.830	4.1	20.2
1 12	7 28.96	+24 24.9	1.856	2.839	0.9	20.0
1 22	7 19.82	+24 42.9	1.881	2.848	4.6	20.2
2 1	7 11.84	+24 54.5	1.934	2.857	8.4	20.5
2 11	7 5.90	+24 59.7	2.013	2.866	11.8	20.7

35857 1999 JN_{64} 1 11.7 253°.65 1°.3/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.28	+24 14.7	1.719	2.495	16.9	18.8
12 13	7 57.31	+24 23.9	1.622	2.485	13.6	18.5
12 23	7 50.14	+24 37.4	1.546	2.474	9.5	18.2
1 2	7 40.30	+24 51.5	1.494	2.464	4.9	17.9
1 12	7 28.89	+25 2.0	1.470	2.453	1.3	17.7
1 22	7 17.34	+25 5.6	1.475	2.441	5.6	17.9
2 1	7 7.14	+25 1.0	1.507	2.430	10.3	18.2
2 11	6 59.55	+24 49.2	1.563	2.418	14.5	18.4

136477 2005 GB_{59} 1 11.7 158°.11 4°.6/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.07	+ 2 47.0	3.133	3.821	11.7	20.6
12 13	7 48.94	+ 2 35.5	3.038	3.828	9.9	20.5
12 23	7 43.28	+ 2 35.7	2.965	3.834	7.8	20.3
1 2	7 36.46	+ 2 48.6	2.918	3.840	5.9	20.2
1 12	7 29.03	+ 3 13.9	2.900	3.845	4.7	20.1
1 22	7 21.58	+ 3 50.2	2.913	3.850	5.1	20.2
2 1	7 14.74	+ 4 35.4	2.955	3.855	6.8	20.3
2 11	7 9.07	+ 5 26.5	3.025	3.859	8.9	20.4

252382 2001 SW_{321} 1 11.7 35°.78 8°.9/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.20	+ 2 50.1	1.515	2.257	20.2	20.1
12 13	7 52.17	+ 1 37.5	1.449	2.270	17.2	19.9
12 23	7 46.28	+ 0 44.4	1.401	2.285	13.9	19.7
1 2	7 38.18	+ 0 15.6	1.375	2.300	10.8	19.6
1 12	7 28.97	+ 0 13.5	1.373	2.316	9.0	19.5
1 22	7 19.92	+ 0 36.8	1.396	2.332	9.6	19.6
2 1	7 12.28	+ 1 21.2	1.443	2.349	12.1	19.8
2 11	7 7.00	+ 2 19.9	1.513	2.366	15.0	20.0

159463 2000 PM_7 1 11.7 120°.84 1°.4/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.49	+23 1.8	2.115	2.868	14.9	20.9
12 13	7 58.81	+23 45.0	2.042	2.892	11.7	20.8
12 23	7 50.52	+24 33.4	1.992	2.915	8.1	20.6
1 2	7 40.22	+25 22.7	1.969	2.937	4.1	20.4
1 12	7 28.91	+26 7.7	1.977	2.959	1.4	20.2
1 22	7 17.76	+26 44.7	2.016	2.979	4.7	20.5
2 1	7 7.89	+27 11.8	2.084	2.998	8.5	20.8
2 11	7 0.21	+27 29.1	2.180	3.016	11.7	21.0

455274 2001 XH_{143} 1 11.7 53°.60 4°.9/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.90	+11 50.5	1.685	2.441	17.9	20.6
12 13	7 54.77	+10 53.3	1.614	2.457	14.7	20.4
12 23	7 47.90	+10 6.8	1.564	2.473	10.9	20.2
1 2	7 38.93	+ 9 33.1	1.537	2.490	7.1	20.0
1 12	7 28.95	+ 9 13.0	1.538	2.507	4.9	19.9
1 22	7 19.20	+ 9 5.9	1.566	2.524	6.5	20.1
2 1	7 10.84	+ 9 10.1	1.622	2.541	10.0	20.3
2 11	7 4.79	+ 9 22.6	1.701	2.558	13.5	20.6

265839 2005 YE_{63} 1 11.7 50°.96 1°.1/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.82	+22 2.7	1.920	2.694	15.4	20.5
12 13	7 53.24	+22 40.7	1.835	2.697	12.3	20.3
12 23	7 46.98	+23 26.1	1.772	2.701	8.5	20.1
1 2	7 38.57	+24 14.9	1.735	2.705	4.3	19.8
1 12	7 28.97	+25 2.2	1.727	2.709	1.2	19.6
1 22	7 19.33	+25 43.7	1.747	2.713	4.9	19.9
2 1	7 10.87	+26 16.5	1.796	2.718	9.0	20.2
2 11	7 4.58	+26 39.9	1.870	2.722	12.7	20.4

92242 2000 AO_{148} 1 11.7 63°.03 6°.2/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.33	+ 6 59.8	1.942	2.674	16.7	18.4
12 13	7 53.18	+ 5 56.5	1.866	2.688	13.9	18.2
12 23	7 46.63	+ 5 5.8	1.811	2.702	10.8	18.0
1 2	7 38.26	+ 4 30.3	1.781	2.716	7.9	17.9
1 12	7 28.98	+ 4 11.8	1.777	2.731	6.3	17.8
1 22	7 19.84	+ 4 9.8	1.801	2.745	7.2	17.9
2 1	7 11.84	+ 4 22.3	1.853	2.760	9.8	18.1
2 11	7 5.82	+ 4 45.8	1.930	2.774	12.6	18.3

39217 2000 XU_{49} 1 11.7 207°.03 6°.2/ 9.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.61	+37 53.5	2.245	3.006	13.9	18.1
12 13	7 57.14	+38 56.8	2.161	3.004	11.4	18.0
12 23	7 49.75	+39 56.6	2.098	3.003	8.8	17.8
1 2	7 40.00	+40 46.0	2.062	3.001	6.7	17.7
1 12	7 28.92	+41 18.7	2.054	2.999	6.3	17.6
1 22	7 17.80	+41 30.9	2.074	2.997	7.9	17.7
2 1	7 7.98	+41 22.5	2.121	2.994	10.4	17.9
2 11	7 0.52	+40 56.5	2.192	2.992	12.9	18.0

406960 2009 OK_{23} 1 11.7 74°.21 6°.4/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 56.50	+ 2 35.3	1.916	2.633	17.3	21.2
12 13	7 52.53	+ 2 18.1	1.846	2.655	14.6	21.1
12 23	7 46.18	+ 2 19.6	1.796	2.677	11.5	20.9
1 2	7 38.03	+ 2 41.6	1.769	2.698	8.5	20.8
1 12	7 28.99	+ 3 23.3	1.769	2.720	6.6	20.7
1 22	7 20.10	+ 4 21.6	1.797	2.742	7.1	20.8
2 1	7 12.36	+ 5 31.6	1.853	2.763	9.6	21.0
2 11	7 6.58	+ 6 47.4	1.934	2.784	12.4	21.2

150959 2001 TL_{143} 1 11.7 58°.37 2°.3/10.9 18

12 3	7 59.04	+25 0.6	1.693	2.475	16.9	20.5
12 13	7 55.31	+25 40.3	1.621	2.488	13.4	20.3
12 23	7 48.54	+26 25.1	1.571	2.501	9.3	20.1
1 2	7 39.37	+27 9.8	1.545	2.514	4.9	19.9
1 12	7 28.95	+27 48.7	1.547	2.527	2.3	19.7
1 22	7 18.66	+28 17.4	1.577	2.541	5.8	20.0
2 1	7 9.87	+28 34.1	1.635	2.554	9.9	20.2
2 11	7 3.63	+28 39.5	1.716	2.568	13.6	20.5

29839 1999 FA_{9} 1 11.7 256°.99 0°.8/11.4 18

12 3	7 55.73	+22 55.1	2.540	3.299	12.5	19.3
12 13	7 51.77	+23 14.4	2.433	3.287	9.9	19.1
12 23	7 45.66	+23 38.0	2.349	3.274	6.9	18.8
1 2	7 37.83	+24 3.3	2.293	3.261	3.5	18.6
1 12	7 29.00	+24 27.4	2.266	3.249	0.8	18.4
1 22	7 20.05	+24 47.7	2.270	3.235	4.0	18.6
2 1	7 11.90	+25 2.6	2.303	3.222	7.5	18.8
2 11	7 5.37	+25 11.5	2.363	3.209	10.6	19.0

278707 2008 SX_{26} 1 11.7 20°.48 0°.2/11.8 18

12 3	7 56.02	+20 28.4	1.944	2.716	15.3	21.1
12 13	7 52.48	+20 34.2	1.858	2.718	12.2	20.9
12 23	7 46.37	+20 46.2	1.794	2.721	8.5	20.6
1 2	7 38.23	+21 2.4	1.755	2.724	4.3	20.4
1 12	7 28.99	+21 19.8	1.744	2.727	0.2	20.0
1 22	7 19.78	+21 35.7	1.762	2.730	4.5	20.4
2 1	7 11.72	+21 48.3	1.808	2.734	8.7	20.7
2 11	7 5.75	+21 56.8	1.879	2.738	12.3	20.9

235680 2004 RD_{316} 1 11.7 116°.27 0°.9/11.9 18

12 3	8 2.62	+18 29.7	1.797	2.557	16.8	21.4
12 13	7 57.71	+18 32.9	1.722	2.574	13.4	21.2
12 23	7 49.95	+18 44.3	1.668	2.591	9.4	21.0
1 2	7 40.00	+19 1.5	1.639	2.607	4.9	20.8
1 12	7 28.94	+19 21.5	1.639	2.622	0.9	20.5
1 22	7 18.06	+19 41.2	1.669	2.637	4.8	20.8
2 1	7 8.60	+19 58.5	1.727	2.651	9.1	21.1
2 11	7 1.53	+20 12.6	1.810	2.665	12.9	21.4

253998 2004 EU_{93} 1 11.7 222°.33 2°.0/12.5 18

12 3	7 57.13	+14 47.8	2.002	2.757	15.5	21.2
12 13	7 53.32	+14 55.3	1.905	2.752	12.6	20.9
12 23	7 46.98	+15 13.7	1.829	2.747	9.0	20.7
1 2	7 38.58	+15 42.0	1.779	2.742	5.1	20.5
1 12	7 28.98	+16 17.5	1.757	2.737	2.0	20.2
1 22	7 19.26	+16 57.2	1.764	2.731	4.7	20.4
2 1	7 10.56	+17 37.6	1.800	2.726	8.7	20.6
2 11	7 3.85	+18 16.2	1.862	2.720	12.5	20.9

38891 2000 SO_{148} 1 11.7 359°.70 3°.4/12.5 18

12 3	7 50.84	+15 39.4	1.292	2.095	20.0	18.3
12 13	7 49.56	+15 6.2	1.215	2.090	16.3	18.0
12 23	7 45.00	+14 44.3	1.157	2.087	11.8	17.7
1 2	7 37.75	+14 34.6	1.120	2.086	6.9	17.5
1 12	7 29.01	+14 36.3	1.108	2.087	3.4	17.2
1 22	7 20.29	+14 47.2	1.120	2.089	6.4	17.4
2 1	7 13.13	+15 4.5	1.157	2.093	11.3	17.7
2 11	7 8.71	+15 24.8	1.215	2.099	15.8	18.0

239737 2009 DB_{6} 1 11.7 76°.18 3°.5/10.4 18

12 3	7 58.86	+31 48.8	2.343	3.108	13.2	20.6
12 13	7 54.40	+32 18.0	2.263	3.116	10.6	20.4
12 23	7 47.50	+32 45.6	2.205	3.125	7.6	20.2
1 2	7 38.72	+33 7.4	2.174	3.133	4.7	20.1
1 12	7 29.00	+33 19.2	2.172	3.141	3.6	20.0
1 22	7 19.38	+33 18.9	2.199	3.150	5.5	20.2
2 1	7 10.93	+33 6.4	2.255	3.158	8.5	20.3
2 11	7 4.48	+32 43.5	2.337	3.166	11.3	20.5

489469 2007 DF_{67} 1 11.7 204°.47 2°.7/10.8 18

12 3	8 4.61	+27 15.5	1.945	2.708	15.6	22.8
12 13	7 59.63	+27 47.7	1.849	2.704	12.5	22.5
12 23	7 51.58	+28 22.8	1.774	2.698	8.9	22.3
1 2	7 40.99	+28 55.9	1.725	2.691	4.9	22.0
1 12	7 28.93	+29 21.2	1.706	2.684	2.8	21.9
1 22	7 16.74	+29 35.0	1.716	2.676	5.8	22.1
2 1	7 5.87	+29 35.9	1.755	2.667	9.9	22.3
2 11	6 57.47	+29 25.6	1.819	2.657	13.6	22.5

14243 2000 AH_{29} 1 11.7 302°.52 0°.2/11.6 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 56.35	+21 28.7	2.109	2.876	14.4	19.0
12 13	7 52.62	+21 37.9	2.015	2.873	11.5	18.8
12 23	7 46.42	+21 52.5	1.942	2.869	8.0	18.6
1 2	7 38.27	+22 10.0	1.896	2.866	4.1	18.3
1 12	7 29.02	+22 27.6	1.879	2.862	0.3	18.0
1 22	7 19.73	+22 42.7	1.891	2.859	4.4	18.4
2 1	7 11.48	+22 53.5	1.931	2.855	8.3	18.6
2 11	7 5.19	+22 59.6	1.997	2.852	11.9	18.8

425486 2010 FV_{47} 1 11.7 287°.74 0°.1/11.8 17

12 3	7 54.90	+20 5.9	2.281	3.044	13.6	21.5
12 13	7 51.36	+20 19.4	2.174	3.030	10.9	21.3
12 23	7 45.54	+20 39.3	2.090	3.015	7.6	21.0
1 2	7 37.84	+21 3.6	2.032	3.001	3.9	20.8
1 12	7 29.04	+21 29.5	2.004	2.987	0.2	20.4
1 22	7 20.09	+21 54.3	2.005	2.973	4.1	20.8
2 1	7 11.99	+22 15.8	2.035	2.959	8.0	21.0
2 11	7 5.65	+22 32.9	2.091	2.945	11.4	21.2

224562 2005 WB_{187} 1 11.7 39°.16 1°.2/11.3 18

12 3	7 57.71	+23 30.9	1.805	2.583	16.1	21.0
12 13	7 54.09	+23 51.1	1.724	2.588	12.8	20.8
12 23	7 47.64	+24 16.4	1.664	2.593	8.9	20.6
1 2	7 38.93	+24 43.3	1.629	2.599	4.5	20.3
1 12	7 29.01	+25 7.5	1.622	2.604	1.3	20.1
1 22	7 19.15	+25 25.4	1.643	2.610	5.1	20.4
2 1	7 10.61	+25 35.6	1.693	2.616	9.4	20.7
2 11	7 4.40	+25 38.0	1.766	2.622	13.1	20.9

485395 2011 KA_{48} 1 11.7 232°.64 0°.6/11.5 18

12 3	8 1.41	+20 18.4	1.689	2.459	17.3	22.3
12 13	7 57.54	+20 54.2	1.589	2.449	14.0	22.0
12 23	7 50.44	+21 40.9	1.511	2.438	9.8	21.8
1 2	7 40.57	+22 34.6	1.457	2.427	5.0	21.5
1 12	7 28.96	+23 29.8	1.431	2.414	0.7	21.1
1 22	7 17.03	+24 20.5	1.434	2.402	5.6	21.4
2 1	7 6.35	+25 2.5	1.465	2.388	10.6	21.7
2 11	6 58.25	+25 34.3	1.520	2.374	15.0	21.9

218241 2002 XF_{45} 1 11.7 113°.87 0°.5/12.0 17

12 3	7 51.77	+18 44.8	3.732	4.472	9.2	21.4
12 13	7 47.68	+18 50.8	3.646	4.488	7.2	21.3
12 23	7 42.29	+19 0.5	3.585	4.503	5.0	21.2
1 2	7 35.94	+19 12.8	3.552	4.519	2.6	21.0
1 12	7 29.11	+19 26.5	3.551	4.534	0.5	20.8
1 22	7 22.33	+19 40.3	3.581	4.549	2.6	21.0
2 1	7 16.11	+19 53.3	3.643	4.563	4.9	21.2
2 11	7 10.93	+20 4.7	3.733	4.577	7.1	21.4

111317 2001 XZ_{74} 1 11.7 124°.32 0°.8/12.0 18

12 3	7 58.18	+18 13.3	2.066	2.825	15.0	20.1
12 13	7 53.95	+18 22.4	1.981	2.833	12.0	19.9
12 23	7 47.27	+18 39.2	1.918	2.841	8.4	19.7
1 2	7 38.66	+19 1.8	1.882	2.849	4.4	19.4
1 12	7 29.03	+19 27.4	1.874	2.856	0.8	19.2
1 22	7 19.44	+19 53.0	1.896	2.864	4.3	19.5
2 1	7 10.97	+20 16.6	1.946	2.871	8.3	19.7
2 11	7 4.48	+20 36.6	2.023	2.878	11.7	19.9

339567 2005 LR 1 11.7 154°.32 0°.7/11.3 18

12 3	7 55.33	+21 45.8	2.842	3.593	11.5	21.1
12 13	7 51.10	+22 21.4	2.749	3.599	9.1	21.0
12 23	7 44.99	+23 1.8	2.680	3.604	6.3	20.8
1 2	7 37.43	+23 44.5	2.640	3.609	3.2	20.6
1 12	7 29.08	+24 26.2	2.631	3.613	0.7	20.4
1 22	7 20.69	+25 4.2	2.652	3.617	3.6	20.7
2 1	7 13.05	+25 36.6	2.705	3.621	6.6	20.9
2 11	7 6.84	+26 2.5	2.784	3.625	9.3	21.0

144307 2004 DL_{11} 1 11.7 264°.21 0°.3/11.6 18

12 3	7 59.06	+21 55.2	1.899	2.669	15.7	21.0
12 13	7 55.20	+22 0.0	1.798	2.657	12.6	20.7
12 23	7 48.50	+22 10.1	1.717	2.644	8.9	20.5
1 2	7 39.45	+22 23.1	1.662	2.632	4.5	20.2
1 12	7 29.02	+22 35.6	1.635	2.619	0.3	19.8
1 22	7 18.42	+22 45.0	1.638	2.606	4.9	20.2
2 1	7 8.97	+22 49.5	1.668	2.593	9.4	20.4
2 11	7 1.76	+22 49.0	1.724	2.579	13.4	20.6

491963 2013 DQ_{5} 1 11.7 15°.91 2°.9/12.5 18

12 3	7 55.25	+15 33.3	1.214	2.013	21.3	21.2
12 13	7 53.24	+15 17.5	1.144	2.017	17.2	20.9
12 23	7 47.65	+15 15.6	1.091	2.021	12.4	20.7
1 2	7 39.13	+15 27.3	1.060	2.027	7.0	20.4
1 12	7 29.03	+15 50.1	1.053	2.034	2.9	20.2
1 22	7 19.01	+16 19.9	1.071	2.041	6.4	20.4
2 1	7 10.77	+16 52.5	1.113	2.050	11.7	20.7
2 11	7 5.56	+17 24.3	1.178	2.059	16.4	21.0

149692 2004 HM_2 1 11.7 85°.62 0°.3/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 57.87	+16 41.3	1.875	2.638	16.1	19.9
12 13	7 54.02	+17 31.2	1.795	2.650	12.9	19.7
12 23	7 47.51	+18 33.6	1.737	2.661	9.0	19.5
1 2	7 38.86	+19 44.8	1.705	2.673	4.6	19.3
1 12	7 29.04	+20 59.6	1.702	2.685	0.3	19.0
1 22	7 19.22	+22 12.0	1.728	2.697	4.7	19.3
2 1	7 10.58	+23 17.5	1.784	2.708	8.9	19.6
2 11	7 4.11	+24 13.4	1.865	2.720	12.6	19.9

321421 2009 QB_{21} 1 11.7 186°.78 3°.5/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.04	+ 8 24.4	2.572	3.288	13.4	22.1
12 13	7 52.55	+ 8 27.1	2.470	3.288	11.0	21.9
12 23	7 46.07	+ 8 41.7	2.391	3.287	8.3	21.8
1 2	7 38.02	+ 9 8.4	2.338	3.286	5.5	21.6
1 12	7 29.07	+ 9 45.9	2.315	3.283	3.6	21.4
1 22	7 20.05	+10 31.9	2.323	3.280	4.7	21.5
2 1	7 11.78	+11 23.4	2.361	3.276	7.5	21.7
2 11	7 5.02	+12 17.2	2.426	3.272	10.4	21.9

266679 2009 KV_4 1 11.7 138°.90 3°.7/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.56	+31 7.7	2.189	2.949	14.2	21.4
12 13	7 58.30	+31 48.2	2.110	2.961	11.4	21.2
12 23	7 50.33	+32 28.2	2.053	2.972	8.2	21.0
1 2	7 40.22	+33 2.3	2.023	2.982	5.0	20.8
1 12	7 29.01	+33 25.4	2.022	2.992	3.8	20.8
1 22	7 17.92	+33 34.5	2.051	3.001	5.9	20.9
2 1	7 8.13	+33 29.4	2.110	3.010	9.1	21.1
2 11	7 0.60	+33 12.3	2.193	3.018	12.1	21.3

381970 2010 EL_{142} 1 11.7 14°.89 1°.1/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.22	+18 47.0	1.978	2.747	15.2	20.2
12 13	7 51.76	+18 38.0	1.892	2.750	12.2	20.0
12 23	7 45.83	+18 35.4	1.827	2.752	8.5	19.8
1 2	7 37.97	+18 38.0	1.788	2.756	4.5	19.6
1 12	7 29.08	+18 44.1	1.777	2.759	1.1	19.3
1 22	7 20.24	+18 51.5	1.795	2.764	4.4	19.6
2 1	7 12.51	+18 58.8	1.841	2.768	8.4	19.8
2 11	7 6.77	+19 4.8	1.912	2.773	12.0	20.0

165126 2000 KJ_{32} 1 11.7 271°.79 0°.5/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.40	+21 37.2	2.347	3.110	13.3	20.2
12 13	7 51.68	+21 57.0	2.245	3.101	10.6	20.0
12 23	7 45.70	+22 22.2	2.166	3.092	7.4	19.8
1 2	7 37.92	+22 50.5	2.113	3.083	3.7	19.5
1 12	7 29.09	+23 18.6	2.090	3.073	0.5	19.2
1 22	7 20.14	+23 43.9	2.097	3.064	4.1	19.5
2 1	7 12.08	+24 4.2	2.133	3.055	7.8	19.7
2 11	7 5.74	+24 18.8	2.196	3.046	11.1	19.9

205607 2001 UU_{104} 1 11.7 261°.22 3°.8/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.34	+31 39.4	2.432	3.198	12.8	20.3
12 13	7 53.32	+32 28.3	2.341	3.195	10.3	20.1
12 23	7 46.89	+33 17.4	2.273	3.193	7.5	19.9
1 2	7 38.53	+34 1.8	2.233	3.190	4.8	19.8
1 12	7 29.08	+34 36.5	2.221	3.187	3.9	19.7
1 22	7 19.57	+34 58.4	2.239	3.185	5.8	19.8
2 1	7 11.06	+35 6.2	2.285	3.182	8.7	20.0
2 11	7 4.44	+35 1.2	2.356	3.179	11.4	20.2

224461 2005 VY_{39} 1 11.7 187°.09 4°.0/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.39	+ 8 43.3	2.322	3.048	14.4	21.1
12 13	7 52.26	+ 8 31.8	2.224	3.048	11.9	20.9
12 23	7 45.99	+ 8 32.3	2.149	3.047	9.0	20.7
1 2	7 38.02	+ 8 45.4	2.099	3.046	6.0	20.5
1 12	7 29.10	+ 9 10.4	2.077	3.044	4.1	20.4
1 22	7 20.11	+ 9 45.4	2.086	3.042	5.2	20.4
2 1	7 11.98	+10 27.5	2.123	3.040	8.1	20.6
2 11	7 5.50	+11 13.3	2.187	3.037	11.2	20.8

373302 2012 HL_{77} 1 11.7 255°.42 0°.8/11.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.88	+18 27.7	2.101	2.862	14.7	21.8
12 13	7 53.10	+18 35.2	2.000	2.853	11.8	21.6
12 23	7 46.84	+18 50.2	1.920	2.843	8.3	21.4
1 2	7 38.55	+19 11.2	1.866	2.833	4.4	21.1
1 12	7 29.09	+19 35.4	1.840	2.823	0.8	20.8
1 22	7 19.48	+20 0.2	1.845	2.813	4.4	21.1
2 1	7 10.85	+20 23.2	1.878	2.803	8.5	21.3
2 11	7 4.15	+20 42.8	1.937	2.792	12.1	21.5

244753 2003 SC_{62} 1 11.7 86°.36 3°.4/13.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.62	+10 57.7	1.694	2.446	18.0	20.8
12 13	7 55.42	+11 3.7	1.625	2.467	14.6	20.6
12 23	7 48.43	+11 25.2	1.575	2.488	10.7	20.4
1 2	7 39.29	+12 1.3	1.550	2.508	6.4	20.2
1 12	7 29.07	+12 49.1	1.552	2.528	3.5	20.1
1 22	7 19.02	+13 44.2	1.583	2.548	5.5	20.3
2 1	7 10.35	+14 41.8	1.642	2.568	9.4	20.5
2 11	7 4.01	+15 37.9	1.726	2.587	13.1	20.8

188206 2002 RR_{242} 1 11.7 210°.19 1°.2/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 2.80	+18 10.5	1.768	2.528	17.1	21.6
12 13	7 58.30	+18 9.0	1.670	2.522	13.8	21.3
12 23	7 50.74	+18 16.0	1.593	2.516	9.8	21.1
1 2	7 40.63	+18 29.8	1.541	2.508	5.2	20.8
1 12	7 29.03	+18 47.5	1.518	2.500	1.2	20.5
1 22	7 17.27	+19 6.1	1.523	2.491	5.2	20.7
2 1	7 6.78	+19 23.3	1.557	2.482	9.9	21.0
2 11	6 58.73	+19 37.7	1.616	2.472	14.1	21.2

493669 2015 RT_{114} 1 11.7 61°.42 4°.9/10.5 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 6.56	+29 47.5	1.296	2.089	20.5	21.9
12 13	8 2.08	+30 44.4	1.247	2.117	16.3	21.7
12 23	7 53.58	+31 42.3	1.218	2.146	11.5	21.5
1 2	7 41.98	+32 31.9	1.211	2.175	6.9	21.3
1 12	7 29.00	+33 4.7	1.231	2.204	5.0	21.3
1 22	7 16.62	+33 16.6	1.277	2.233	8.0	21.5
2 1	7 6.61	+33 8.5	1.349	2.261	12.2	21.9
2 11	7 0.10	+32 45.1	1.442	2.290	16.0	22.2

464725 2002 TB_{171} 1 11.7 76°.29 0°.9/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.32	+19 25.4	2.254	3.007	14.0	21.2
12 13	7 54.39	+19 13.2	2.184	3.032	11.1	21.0
12 23	7 47.27	+19 5.8	2.136	3.058	7.7	20.8
1 2	7 38.55	+19 2.0	2.116	3.083	4.0	20.6
1 12	7 29.10	+19 0.2	2.125	3.108	0.9	20.4
1 22	7 19.89	+18 59.0	2.165	3.132	3.9	20.7
2 1	7 11.82	+18 57.5	2.234	3.157	7.4	21.0
2 11	7 5.61	+18 55.2	2.330	3.181	10.5	21.2

142677 2002 TA_{224} 1 11.7 0°.74 1°.4/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.55	+20 13.1	1.135	1.955	21.2	18.5
12 13	7 50.68	+19 45.4	1.064	1.950	17.1	18.2
12 23	7 46.09	+19 25.2	1.010	1.948	12.0	17.9
1 2	7 38.43	+19 11.9	0.976	1.948	6.3	17.6
1 12	7 29.10	+19 3.4	0.967	1.949	1.4	17.3
1 22	7 19.85	+18 57.7	0.981	1.953	6.3	17.6
2 1	7 12.45	+18 53.2	1.018	1.958	12.0	17.9
2 11	7 8.20	+18 48.7	1.077	1.965	16.9	18.2

348463 2005 SY_{24} 1 11.7 146°.63 0°.8/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.95	+17 1.3	1.877	2.630	16.5	21.5
12 13	7 58.01	+17 27.4	1.794	2.642	13.2	21.2
12 23	7 50.26	+18 4.1	1.732	2.653	9.3	21.0
1 2	7 40.27	+18 48.6	1.696	2.663	4.8	20.8
1 12	7 29.05	+19 36.8	1.690	2.673	0.8	20.5
1 22	7 17.86	+20 24.1	1.714	2.681	4.8	20.8
2 1	7 7.95	+21 7.1	1.766	2.689	9.1	21.1
2 11	7 0.34	+21 43.9	1.845	2.696	12.9	21.3

286482 2002 AZ_{175} 1 11.7 347°.90 0°.6/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.06	+22 7.6	1.265	2.072	20.2	20.3
12 13	7 54.11	+22 15.5	1.185	2.065	16.2	20.0
12 23	7 48.46	+22 31.5	1.124	2.060	11.4	19.7
1 2	7 39.68	+22 52.4	1.084	2.055	5.8	19.4
1 12	7 29.07	+23 13.0	1.069	2.052	0.7	19.0
1 22	7 18.40	+23 29.0	1.079	2.049	6.3	19.4
2 1	7 9.48	+23 37.7	1.113	2.047	11.9	19.7
2 11	7 3.72	+23 38.9	1.170	2.046	16.8	20.0

194227 2001 TW_{147} 1 11.7 144°.54 1°.2/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.58	+16 25.6	2.014	2.761	15.7	21.6
12 13	7 57.46	+16 40.8	1.931	2.775	12.6	21.4
12 23	7 49.73	+17 5.7	1.869	2.787	8.9	21.2
1 2	7 39.95	+17 38.0	1.834	2.799	4.7	21.0
1 12	7 29.08	+18 14.6	1.828	2.810	1.3	20.7
1 22	7 18.26	+18 51.9	1.853	2.820	4.5	21.0
2 1	7 8.64	+19 27.0	1.907	2.829	8.6	21.2
2 11	7 1.16	+19 58.2	1.987	2.837	12.1	21.5

394353 2007 BK_{37} 1 11.7 224°.87 0°.4/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.55	+19 19.7	1.697	2.465	17.4	21.9
12 13	7 57.53	+19 32.4	1.600	2.458	14.0	21.7
12 23	7 50.34	+19 54.5	1.523	2.449	9.9	21.4
1 2	7 40.50	+20 23.3	1.471	2.440	5.1	21.1
1 12	7 29.06	+20 54.7	1.447	2.431	0.4	20.7
1 22	7 17.40	+21 24.7	1.452	2.420	5.3	21.1
2 1	7 7.03	+21 50.3	1.484	2.410	10.2	21.3
2 11	6 59.20	+22 10.0	1.541	2.399	14.6	21.6

432151 2009 BN_{133} 1 11.7 315°.84 0°.1/11.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.79	+21 25.3	2.150	2.920	14.1	21.5
12 13	7 51.43	+21 31.2	2.049	2.908	11.3	21.3
12 23	7 45.66	+21 42.2	1.970	2.897	7.9	21.0
1 2	7 37.95	+21 56.3	1.916	2.886	4.0	20.8
1 12	7 29.13	+22 10.9	1.892	2.875	0.2	20.4
1 22	7 20.21	+22 23.4	1.896	2.864	4.3	20.8
2 1	7 12.24	+22 32.3	1.929	2.854	8.3	21.0
2 11	7 6.15	+22 37.0	1.988	2.844	11.8	21.2

278468 2007 TP_{208} 1 11.7 84°.96 1°.6/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 57.24	+23 17.4	2.401	3.161	13.1	20.1
12 13	7 52.95	+24 14.5	2.325	3.179	10.3	19.9
12 23	7 46.45	+25 16.9	2.273	3.198	7.1	19.7
1 2	7 38.24	+26 20.4	2.248	3.216	3.7	19.5
1 12	7 29.13	+27 20.3	2.254	3.234	1.7	19.4
1 22	7 20.05	+28 12.6	2.291	3.252	4.4	19.6
2 1	7 11.96	+28 54.9	2.357	3.270	7.7	19.9
2 11	7 5.62	+29 26.7	2.450	3.287	10.6	20.1

519804 2013 GL_{141} 1 11.7 144°.57 2°.0/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.88	+15 7.8	2.202	2.947	14.6	22.6
12 13	7 54.30	+15 6.2	2.115	2.956	11.7	22.4
12 23	7 47.42	+15 13.4	2.050	2.965	8.4	22.2
1 2	7 38.74	+15 28.4	2.011	2.973	4.7	22.0
1 12	7 29.12	+15 49.2	2.001	2.981	2.0	21.8
1 22	7 19.53	+16 13.6	2.022	2.988	4.4	22.0
2 1	7 10.96	+16 39.2	2.072	2.995	8.0	22.2
2 11	7 4.25	+17 4.1	2.149	3.001	11.2	22.4

188776 2005 UD_{498} 1 11.7 70°.78 2°.3/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.96	+14 21.9	1.850	2.610	16.4	20.7
12 13	7 53.20	+14 25.5	1.773	2.623	13.2	20.5
12 23	7 46.86	+14 40.5	1.717	2.636	9.5	20.3
1 2	7 38.51	+15 5.8	1.685	2.649	5.3	20.1
1 12	7 29.12	+15 38.9	1.682	2.662	2.3	19.9
1 22	7 19.81	+16 16.2	1.707	2.675	4.8	20.1
2 1	7 11.72	+16 54.6	1.761	2.688	8.8	20.4
2 11	7 5.74	+17 31.3	1.839	2.701	12.4	20.6

276652 2003 UW_{273} 1 11.7 55°.60 3°.3/10.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.44	+27 41.5	2.079	2.853	14.4	20.2
12 13	7 53.70	+28 43.4	1.997	2.858	11.5	20.0
12 23	7 47.32	+29 49.1	1.938	2.864	8.1	19.8
1 2	7 38.82	+30 52.9	1.905	2.869	4.8	19.6
1 12	7 29.11	+31 48.9	1.902	2.875	3.4	19.5
1 22	7 19.37	+32 32.5	1.927	2.881	5.9	19.7
2 1	7 10.77	+33 1.4	1.981	2.887	9.3	19.9
2 11	7 4.29	+33 16.2	2.059	2.893	12.4	20.1

357360 2003 SJ_{25} 1 11.7 199°.81 0°.6/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.41	+22 32.1	2.327	3.077	13.7	22.2
12 13	7 57.21	+22 45.8	2.225	3.072	11.0	22.0
12 23	7 49.54	+23 3.8	2.145	3.067	7.7	21.7
1 2	7 39.89	+23 23.2	2.092	3.061	3.9	21.5
1 12	7 29.09	+23 41.0	2.070	3.053	0.6	21.2
1 22	7 18.20	+23 54.4	2.080	3.045	4.3	21.5
2 1	7 8.31	+24 2.1	2.119	3.036	8.1	21.7
2 11	7 0.34	+24 4.1	2.185	3.027	11.5	21.9

470872 2009 AY_{32} 1 11.7 295°.39 2°.4/11.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.05	+29 4.5	2.318	3.082	13.4	21.5
12 13	7 54.81	+29 9.3	2.204	3.059	10.8	21.3
12 23	7 48.04	+29 13.3	2.113	3.036	7.7	21.1
1 2	7 39.19	+29 13.2	2.048	3.013	4.3	20.8
1 12	7 29.11	+29 5.7	2.012	2.990	2.4	20.7
1 22	7 18.89	+28 48.7	2.006	2.967	5.0	20.8
2 1	7 9.65	+28 22.2	2.029	2.943	8.6	21.0
2 11	7 2.37	+27 47.8	2.078	2.920	12.0	21.1

73565 4252 P–L 1 11.7 167°.88 0°.9/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 5.83	+23 2.4	1.688	2.455	17.5	21.0
12 13	8 0.80	+23 16.4	1.603	2.460	14.0	20.8
12 23	7 52.48	+23 36.1	1.538	2.464	9.8	20.5
1 2	7 41.50	+23 57.4	1.499	2.468	5.0	20.3
1 12	7 29.05	+24 15.6	1.488	2.471	1.0	20.0
1 22	7 16.63	+24 27.1	1.506	2.473	5.5	20.3
2 1	7 5.77	+24 30.6	1.552	2.474	10.2	20.6
2 11	6 57.64	+24 26.8	1.623	2.474	14.3	20.8

177280 2003 WY_{142} 1 11.7 263°.44 0°.9/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.68	+21 39.5	1.429	2.217	19.2	20.4
12 13	7 57.56	+22 2.5	1.337	2.206	15.5	20.1
12 23	7 50.81	+22 35.3	1.264	2.196	10.9	19.8
1 2	7 40.91	+23 13.8	1.215	2.186	5.6	19.5
1 12	7 29.06	+23 52.3	1.192	2.175	0.9	19.1
1 22	7 16.95	+24 25.1	1.196	2.164	6.2	19.4
2 1	7 6.37	+24 48.6	1.225	2.153	11.7	19.7
2 11	6 58.81	+25 2.3	1.278	2.142	16.5	20.0

17564 1994 CQ_1 1 11.7 28°.26 3°.4/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.61	+14 26.3	1.177	1.976	21.8	17.7
12 13	7 53.48	+14 9.5	1.116	1.988	17.6	17.5
12 23	7 47.75	+14 8.3	1.072	2.001	12.7	17.2
1 2	7 39.16	+14 22.5	1.049	2.015	7.3	17.0
1 12	7 29.13	+14 49.3	1.050	2.030	3.4	16.8
1 22	7 19.33	+15 24.4	1.077	2.046	6.5	17.0
2 1	7 11.40	+16 2.8	1.127	2.063	11.6	17.3
2 11	7 6.51	+16 40.5	1.200	2.081	16.1	17.7

418261 2008 EL_{14} 1 11.7 176°.98 1°.7/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 57.76	+14 39.6	2.422	3.162	13.5	21.9
12 13	7 53.30	+14 52.9	2.326	3.164	10.9	21.7
12 23	7 46.69	+15 15.5	2.252	3.166	7.8	21.5
1 2	7 38.40	+15 46.0	2.204	3.167	4.4	21.3
1 12	7 29.15	+16 22.3	2.187	3.167	1.7	21.1
1 22	7 19.85	+17 1.4	2.201	3.167	4.0	21.3
2 1	7 11.40	+17 40.8	2.245	3.167	7.5	21.5
2 11	7 4.61	+18 18.2	2.316	3.165	10.6	21.7

99969 1981 DY_1 1 11.7 224°.00 3°.0/10.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.09	+32 14.4	2.931	3.683	11.1	20.4
12 13	7 54.18	+32 33.3	2.829	3.674	9.0	20.2
12 23	7 47.21	+32 50.4	2.750	3.666	6.5	20.0
1 2	7 38.62	+33 2.2	2.699	3.657	4.0	19.8
1 12	7 29.15	+33 5.6	2.679	3.648	3.0	19.8
1 22	7 19.67	+32 58.9	2.689	3.639	4.7	19.9
2 1	7 11.06	+32 41.8	2.729	3.629	7.3	20.0
2 11	7 4.06	+32 15.9	2.796	3.619	9.8	20.2

443849 2001 QW_{170} 1 11.7 134°.83 0°.2/11.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.49	+21 4.3	1.918	2.675	16.1	22.6
12 13	7 59.12	+21 19.0	1.840	2.691	12.8	22.4
12 23	7 50.95	+21 40.0	1.783	2.706	8.9	22.2
1 2	7 40.60	+22 3.9	1.752	2.720	4.5	22.0
1 12	7 29.13	+22 26.9	1.750	2.734	0.3	21.7
1 22	7 17.79	+22 46.0	1.779	2.746	4.7	22.1
2 1	7 7.83	+22 59.5	1.837	2.758	8.9	22.3
2 11	7 0.22	+23 7.2	1.921	2.769	12.6	22.6

122269 2000 OH_{58} 1 11.7 82°.18 2°.8/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.09	+27 2.5	1.537	2.319	18.3	20.0
12 13	7 59.62	+27 28.5	1.470	2.335	14.6	19.8
12 23	7 51.70	+27 57.1	1.422	2.351	10.2	19.6
1 2	7 41.08	+28 22.6	1.400	2.367	5.5	19.3
1 12	7 29.12	+28 39.2	1.404	2.383	2.8	19.2
1 22	7 17.45	+28 43.6	1.436	2.399	6.3	19.5
2 1	7 7.63	+28 35.4	1.495	2.415	10.7	19.8
2 11	7 0.75	+28 17.2	1.578	2.430	14.6	20.0

83045 2001 QC_{195} 1 11.7 125°.71 2°.6/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.93	+30 36.0	2.596	3.353	12.3	19.6
12 13	7 54.94	+30 48.3	2.511	3.360	9.8	19.5
12 23	7 47.74	+30 59.2	2.448	3.368	7.0	19.3
1 2	7 38.88	+31 5.0	2.413	3.375	4.1	19.1
1 12	7 29.19	+31 3.0	2.408	3.382	2.7	19.0
1 22	7 19.61	+30 51.6	2.434	3.389	4.7	19.2
2 1	7 11.09	+30 30.9	2.489	3.396	7.6	19.4
2 11	7 4.38	+30 2.7	2.571	3.403	10.3	19.6

93573 2000 UU_{42} 1 11.7 88°.43 5°.8/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.94	+ 5 33.2	2.055	2.777	16.1	20.2
12 13	7 52.79	+ 4 55.2	1.979	2.794	13.5	20.0
12 23	7 46.37	+ 4 31.4	1.923	2.810	10.5	19.8
1 2	7 38.22	+ 4 24.0	1.892	2.826	7.6	19.7
1 12	7 29.21	+ 4 33.0	1.888	2.842	5.9	19.6
1 22	7 20.29	+ 4 57.2	1.912	2.858	6.7	19.7
2 1	7 12.45	+ 5 33.3	1.964	2.873	9.2	19.9
2 11	7 6.45	+ 6 17.4	2.042	2.889	12.0	20.1

382262 2012 TC_{114} 1 11.7 267°.79 3°.6/12.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.80	+10 55.7	2.518	3.250	13.2	20.5
12 13	7 50.95	+10 26.7	2.407	3.235	10.9	20.3
12 23	7 45.10	+10 6.0	2.317	3.220	8.2	20.1
1 2	7 37.63	+ 9 54.5	2.254	3.204	5.4	19.9
1 12	7 29.22	+ 9 52.4	2.220	3.189	3.7	19.8
1 22	7 20.68	+ 9 59.0	2.216	3.173	4.9	19.9
2 1	7 12.86	+10 12.7	2.240	3.157	7.8	20.0
2 11	7 6.53	+10 31.7	2.292	3.141	10.8	20.2

99901 2002 QL_{44} 1 11.7 133°.43 1°.4/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.64	+14 50.0	2.435	3.180	13.3	19.9
12 13	7 51.60	+15 12.2	2.345	3.187	10.7	19.7
12 23	7 45.51	+15 44.0	2.278	3.194	7.6	19.6
1 2	7 37.81	+16 23.7	2.237	3.201	4.2	19.4
1 12	7 29.23	+17 8.8	2.226	3.208	1.4	19.2
1 22	7 20.64	+17 55.9	2.246	3.214	3.8	19.3
2 1	7 12.89	+18 42.2	2.296	3.220	7.2	19.6
2 11	7 6.76	+19 25.4	2.374	3.226	10.3	19.8

373034 2011 EH_{26} 1 11.7 5°.28 1°.0/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.89	+22 37.9	1.994	2.766	15.0	20.9
12 13	7 53.26	+23 2.9	1.905	2.766	11.9	20.7
12 23	7 47.03	+23 33.7	1.838	2.766	8.3	20.5
1 2	7 38.70	+24 7.0	1.796	2.766	4.2	20.3
1 12	7 29.21	+24 38.8	1.784	2.766	1.0	20.0
1 22	7 19.68	+25 5.6	1.800	2.767	4.7	20.3
2 1	7 11.28	+25 25.1	1.845	2.767	8.8	20.5
2 11	7 4.97	+25 37.0	1.915	2.768	12.4	20.8

120989 1998 XG_{21} 1 11.7 43°.59 1°.1/11.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 0.93	+20 7.7	1.195	1.994	21.5	19.7
12 13	7 57.66	+19 49.4	1.136	2.011	17.2	19.5
12 23	7 50.60	+19 39.7	1.095	2.028	12.0	19.3
1 2	7 40.59	+19 36.5	1.076	2.046	6.2	19.0
1 12	7 29.16	+19 36.7	1.082	2.065	1.1	18.7
1 22	7 18.15	+19 37.5	1.113	2.084	6.1	19.1
2 1	7 9.22	+19 37.4	1.170	2.104	11.5	19.5
2 11	7 3.55	+19 35.8	1.248	2.124	16.1	19.8

138711 2000 SN_{104} 1 11.7 121°.21 0°.9/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.03	+18 18.4	2.100	2.858	14.8	20.8
12 13	7 53.83	+18 24.3	2.015	2.866	11.8	20.6
12 23	7 47.21	+18 37.4	1.952	2.874	8.3	20.4
1 2	7 38.71	+18 56.1	1.914	2.881	4.3	20.2
1 12	7 29.21	+19 17.8	1.906	2.889	0.9	19.9
1 22	7 19.75	+19 39.7	1.928	2.896	4.3	20.2
2 1	7 11.38	+19 59.9	1.978	2.903	8.1	20.5
2 11	7 4.96	+20 17.1	2.055	2.909	11.6	20.7

465971 2011 CD_{12} 1 11.7 334°.80 1°.3/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.71	+16 43.6	1.907	2.673	15.8	21.8
12 13	7 52.37	+16 53.4	1.816	2.671	12.7	21.6
12 23	7 46.45	+17 13.2	1.745	2.669	9.0	21.3
1 2	7 38.43	+17 41.4	1.700	2.667	4.8	21.1
1 12	7 29.22	+18 15.1	1.682	2.665	1.3	20.8
1 22	7 19.93	+18 50.8	1.694	2.663	4.6	21.1
2 1	7 11.73	+19 25.6	1.734	2.661	8.9	21.3
2 11	7 5.60	+19 57.0	1.798	2.660	12.6	21.5

240304 2003 FS_{84} 1 11.7 303°.91 4°.9/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.15	+12 22.3	1.439	2.214	19.7	20.4
12 13	7 54.44	+11 41.4	1.347	2.202	16.3	20.1
12 23	7 48.44	+11 12.8	1.273	2.191	12.2	19.9
1 2	7 39.65	+10 58.6	1.222	2.180	7.8	19.6
1 12	7 29.18	+10 59.2	1.195	2.169	4.9	19.4
1 22	7 18.49	+11 13.4	1.195	2.159	7.1	19.5
2 1	7 9.17	+11 38.2	1.220	2.149	11.7	19.7
2 11	7 2.52	+12 9.7	1.268	2.139	16.2	19.9

39657 1995 UX_{22} 1 11.7 44°.28 0°.8/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.85	+18 47.2	1.878	2.648	15.9	20.0
12 13	7 53.24	+18 50.8	1.795	2.652	12.7	19.8
12 23	7 46.99	+19 2.1	1.732	2.657	8.9	19.6
1 2	7 38.66	+19 19.3	1.694	2.662	4.6	19.4
1 12	7 29.21	+19 39.6	1.685	2.668	0.8	19.1
1 22	7 19.80	+20 0.1	1.704	2.673	4.6	19.4
2 1	7 11.58	+20 18.7	1.751	2.679	8.8	19.7
2 11	7 5.50	+20 34.0	1.824	2.684	12.5	19.9

183406 2002 YK_{6} 1 11.7 264°.81 1°.7/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.03	+21 38.6	1.978	2.747	15.2	20.1
12 13	7 54.47	+22 41.6	1.875	2.734	12.2	19.9
12 23	7 48.13	+23 55.1	1.793	2.721	8.5	19.6
1 2	7 39.42	+25 14.8	1.738	2.708	4.4	19.4
1 12	7 29.19	+26 34.2	1.713	2.694	1.7	19.1
1 22	7 18.63	+27 47.0	1.717	2.680	5.4	19.4
2 1	7 9.03	+28 48.3	1.750	2.666	9.6	19.6
2 11	7 1.57	+29 36.4	1.808	2.653	13.4	19.8

160275 2002 TH_{130} 1 11.7 69°.95 3°.0/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.76	+10 45.1	2.179	2.921	14.8	19.8
12 13	7 51.06	+10 54.5	2.099	2.935	12.0	19.7
12 23	7 45.20	+11 16.5	2.039	2.948	8.8	19.5
1 2	7 37.66	+11 50.4	2.005	2.962	5.4	19.3
1 12	7 29.25	+12 34.2	2.000	2.975	3.0	19.2
1 22	7 20.89	+13 24.6	2.025	2.989	4.6	19.3
2 1	7 13.49	+14 17.9	2.078	3.002	7.8	19.5
2 11	7 7.83	+15 10.9	2.158	3.016	11.0	19.8

54791 2001 ME_{9} 1 11.7 69°.55 0°.5/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.81	+22 9.6	1.731	2.498	17.1	18.7
12 13	7 58.66	+21 42.2	1.663	2.520	13.6	18.5
12 23	7 50.60	+21 18.2	1.616	2.542	9.4	18.3
1 2	7 40.37	+20 55.8	1.595	2.563	4.8	18.1
1 12	7 29.19	+20 33.5	1.602	2.585	0.5	17.8
1 22	7 18.37	+20 10.6	1.638	2.607	4.8	18.2
2 1	7 9.16	+19 47.2	1.703	2.628	9.2	18.5
2 11	7 2.46	+19 24.1	1.793	2.650	12.9	18.7

255915 2006 SW_{357} 1 11.7 132°.74 0°.4/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.03	+19 58.8	1.993	2.754	15.4	21.3
12 13	7 55.57	+20 3.4	1.909	2.762	12.3	21.1
12 23	7 48.50	+20 14.4	1.846	2.770	8.6	20.9
1 2	7 39.39	+20 29.4	1.809	2.778	4.4	20.7
1 12	7 29.21	+20 45.8	1.802	2.785	0.4	20.4
1 22	7 19.09	+21 0.7	1.823	2.792	4.5	20.7
2 1	7 10.17	+21 12.6	1.874	2.798	8.6	21.0
2 11	7 3.38	+21 20.8	1.951	2.805	12.1	21.2

36595 2000 QD_{134} 1 11.7 74°.06 0°.2/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 1.02	+19 27.8	1.901	2.662	16.0	19.5
12 13	7 56.20	+19 46.9	1.839	2.693	12.7	19.3
12 23	7 48.78	+20 13.4	1.799	2.723	8.7	19.1
1 2	7 39.44	+20 44.2	1.785	2.753	4.4	18.9
1 12	7 29.22	+21 15.7	1.799	2.783	0.2	18.7
1 22	7 19.27	+21 44.4	1.844	2.812	4.4	19.1
2 1	7 10.69	+22 8.3	1.917	2.841	8.4	19.4
2 11	7 4.33	+22 26.6	2.016	2.869	11.8	19.6

461818 2006 AH_{50} 1 11.7 198°.73 0°.6/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.99	+18 57.8	2.353	3.105	13.5	21.3
12 13	7 53.78	+19 59.0	2.254	3.103	10.8	21.1
12 23	7 47.25	+21 10.3	2.177	3.100	7.5	20.9
1 2	7 38.81	+22 28.1	2.129	3.097	3.8	20.6
1 12	7 29.23	+23 47.2	2.111	3.094	0.6	20.4
1 22	7 19.45	+25 2.5	2.125	3.091	4.3	20.7
2 1	7 10.51	+26 10.0	2.170	3.087	8.0	20.9
2 11	7 3.31	+27 7.4	2.241	3.083	11.3	21.1

37480 1149 $T\text{-}_{1}$ 1 11.7 274°.77 2°.7/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.91	+13 44.8	2.009	2.764	15.5	19.9
12 13	7 52.43	+13 35.7	1.908	2.754	12.6	19.7
12 23	7 46.45	+13 36.9	1.828	2.744	9.2	19.4
1 2	7 38.44	+13 48.3	1.773	2.734	5.4	19.2
1 12	7 29.24	+14 8.6	1.746	2.724	2.8	19.0
1 22	7 19.89	+14 35.4	1.748	2.713	5.0	19.1
2 1	7 11.50	+15 6.1	1.778	2.703	8.8	19.3
2 11	7 5.05	+15 37.9	1.833	2.693	12.5	19.5

241858 2001 TF_{171} 1 11.7 90°.77 10°.5/19.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.51	−16 9.5	2.740	3.317	15.2	20.5
12 13	7 50.35	−17 12.8	2.674	3.340	13.9	20.5
12 23	7 44.42	−17 55.7	2.626	3.362	12.6	20.4
1 2	7 37.18	−18 14.0	2.597	3.383	11.4	20.3
1 12	7 29.29	−18 5.6	2.591	3.405	10.7	20.3
1 22	7 21.48	−17 31.0	2.609	3.426	10.5	20.3
2 1	7 14.47	−16 32.9	2.651	3.447	11.0	20.4
2 11	7 8.87	−15 16.4	2.716	3.467	12.0	20.5

264772 2002 GS_{78} 1 11.7 276°.40 4°.2/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.65	+ 7 59.1	2.121	2.856	15.4	20.8
12 13	7 51.34	+ 8 1.7	2.012	2.840	12.8	20.5
12 23	7 45.67	+ 8 19.3	1.923	2.824	9.7	20.3
1 2	7 38.06	+ 8 52.7	1.859	2.808	6.5	20.1
1 12	7 29.26	+ 9 40.9	1.823	2.792	4.2	19.9
1 22	7 20.21	+10 40.9	1.816	2.776	5.5	20.0
2 1	7 11.97	+11 48.6	1.838	2.760	8.8	20.1
2 11	7 5.48	+12 59.2	1.886	2.744	12.3	20.3

170782 2004 CG_{104} 1 11.7 318°.90 8°.8/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.85	− 2 23.3	2.129	2.824	16.4	20.2
12 13	7 49.01	− 3 16.5	2.030	2.811	14.4	20.0
12 23	7 43.97	− 3 52.4	1.949	2.799	12.2	19.8
1 2	7 37.16	− 4 6.6	1.891	2.787	10.1	19.7
1 12	7 29.29	− 3 56.8	1.857	2.776	8.9	19.6
1 22	7 21.26	− 3 23.0	1.849	2.765	9.2	19.6
2 1	7 14.04	− 2 28.0	1.867	2.754	10.9	19.6
2 11	7 8.50	− 1 17.0	1.910	2.743	13.2	19.8

241844 2001 TY_{12} 1 11.7 88°.98 4°.4/ 9.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.78	+32 48.4	2.639	3.391	12.2	20.1
12 13	7 56.56	+34 16.4	2.575	3.418	9.8	20.0
12 23	7 49.00	+35 43.6	2.535	3.445	7.2	19.8
1 2	7 39.61	+37 4.1	2.524	3.472	5.0	19.7
1 12	7 29.23	+38 11.9	2.544	3.498	4.6	19.7
1 22	7 18.87	+39 3.4	2.594	3.524	6.1	19.9
2 1	7 9.55	+39 37.3	2.674	3.549	8.4	20.1
2 11	7 2.11	+39 55.2	2.780	3.574	10.7	20.3

120116 2003 FR_{75} 1 11.8 321°.59 3°.8/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.58	+14 37.6	1.560	2.339	18.2	19.6
12 13	7 52.24	+13 59.6	1.459	2.319	15.0	19.3
12 23	7 46.84	+13 30.7	1.377	2.299	11.0	19.0
1 2	7 38.85	+13 12.2	1.318	2.280	6.7	18.7
1 12	7 29.25	+13 4.5	1.285	2.262	3.8	18.5
1 22	7 19.37	+13 6.5	1.278	2.244	6.4	18.6
2 1	7 10.69	+13 16.5	1.298	2.228	11.0	18.8
2 11	7 4.46	+13 31.9	1.340	2.212	15.4	19.0

437150 2012 VE_{29} 1 11.8 163°.79 0°.9/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.21	+24 9.5	2.789	3.543	11.6	22.0
12 13	7 51.85	+24 22.0	2.695	3.546	9.2	21.8
12 23	7 45.57	+24 36.8	2.625	3.549	6.4	21.6
1 2	7 37.82	+24 51.8	2.583	3.551	3.2	21.4
1 12	7 29.28	+25 4.4	2.571	3.553	0.9	21.2
1 22	7 20.76	+25 13.0	2.590	3.555	3.6	21.5
2 1	7 13.05	+25 16.5	2.639	3.557	6.7	21.7
2 11	7 6.85	+25 14.9	2.716	3.558	9.5	21.9

502497 2015 BC_{398} 1 11.8 8°.44 1°.1/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 54.97	+17 48.2	2.125	2.888	14.5	21.5
12 13	7 51.47	+17 51.5	2.034	2.888	11.6	21.3
12 23	7 45.63	+18 2.3	1.965	2.889	8.2	21.0
1 2	7 37.96	+18 19.3	1.922	2.889	4.3	20.8
1 12	7 29.28	+18 40.2	1.908	2.890	1.1	20.6
1 22	7 20.58	+19 2.4	1.923	2.892	4.2	20.8
2 1	7 12.88	+19 23.8	1.967	2.893	8.1	21.0
2 11	7 7.02	+19 42.9	2.036	2.895	11.5	21.3

411562 2011 CN_{79} 1 11.8 38°.72 5°.5/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.67	+ 7 22.9	1.690	2.441	18.1	21.0
12 13	7 51.60	+ 7 0.6	1.617	2.452	15.0	20.8
12 23	7 45.89	+ 6 55.1	1.562	2.465	11.4	20.6
1 2	7 38.12	+ 7 7.8	1.531	2.477	7.8	20.5
1 12	7 29.28	+ 7 38.2	1.526	2.491	5.5	20.3
1 22	7 20.52	+ 8 23.0	1.547	2.504	6.7	20.4
2 1	7 13.00	+ 9 17.9	1.596	2.518	9.9	20.7
2 11	7 7.64	+10 17.5	1.669	2.533	13.3	20.9

382209 2012 PQ_{21} 1 11.8 23°.29 4°.0/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.53	+34 6.4	1.838	2.611	16.1	20.2
12 13	7 58.69	+33 57.1	1.763	2.620	13.0	20.0
12 23	7 50.76	+33 41.8	1.709	2.629	9.4	19.8
1 2	7 40.52	+33 16.0	1.680	2.640	5.8	19.6
1 12	7 29.23	+32 36.5	1.679	2.651	4.0	19.5
1 22	7 18.33	+31 43.0	1.706	2.663	6.2	19.7
2 1	7 9.14	+30 38.4	1.762	2.675	9.8	19.9
2 11	7 2.59	+29 27.3	1.843	2.688	13.1	20.1

116044 2003 WE_{102} 1 11.8 3°.97 0°.1/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.29	+21 6.8	1.883	2.660	15.6	20.1
12 13	7 52.11	+21 17.0	1.797	2.660	12.4	19.8
12 23	7 46.29	+21 33.4	1.731	2.660	8.7	19.6
1 2	7 38.37	+21 53.8	1.691	2.661	4.4	19.4
1 12	7 29.29	+22 14.7	1.679	2.662	0.2	19.0
1 22	7 20.21	+22 33.3	1.695	2.664	4.6	19.4
2 1	7 12.29	+22 47.5	1.739	2.666	8.9	19.6
2 11	7 6.51	+22 56.6	1.807	2.668	12.6	19.9

337505 2001 SN_{131} 1 11.8 209°.57 8°.6/ 7.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 11.08	+52 43.1	2.946	3.646	12.2	21.1
12 13	8 4.67	+53 46.7	2.865	3.640	10.8	21.0
12 23	7 55.03	+54 39.6	2.805	3.634	9.5	20.9
1 2	7 42.81	+55 14.6	2.770	3.628	8.7	20.8
1 12	7 29.19	+55 25.8	2.761	3.621	8.6	20.8
1 22	7 15.65	+55 11.0	2.778	3.614	9.4	20.8
2 1	7 3.67	+54 31.3	2.821	3.606	10.7	20.9
2 11	6 54.38	+53 31.4	2.886	3.598	12.2	21.0

56746 2000 OO_{2} 1 11.8 154°.75 5°.2/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.15	+ 4 25.3	2.213	2.927	15.4	19.6
12 13	7 52.19	+ 4 19.6	2.122	2.931	12.9	19.4
12 23	7 46.03	+ 4 29.8	2.051	2.936	10.0	19.2
1 2	7 38.15	+ 4 57.1	2.005	2.940	7.2	19.1
1 12	7 29.31	+ 5 40.8	1.986	2.944	5.3	19.0
1 22	7 20.43	+ 6 38.1	1.997	2.947	6.1	19.0
2 1	7 12.44	+ 7 45.0	2.037	2.950	8.7	19.2
2 11	7 6.16	+ 8 56.7	2.103	2.953	11.6	19.4

243214 2007 UE_{67} 1 11.8 256°.52 1°.3/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.52	+17 36.7	2.407	3.160	13.3	20.5
12 13	7 51.64	+17 30.8	2.306	3.154	10.7	20.3
12 23	7 45.63	+17 31.0	2.228	3.148	7.5	20.1
1 2	7 37.95	+17 36.4	2.177	3.142	4.1	19.8
1 12	7 29.33	+17 45.5	2.154	3.136	1.3	19.6
1 22	7 20.64	+17 56.6	2.162	3.130	3.9	19.8
2 1	7 12.81	+18 8.0	2.199	3.123	7.5	20.0
2 11	7 6.61	+18 18.8	2.263	3.117	10.7	20.2

299037 2005 AU_{55} 1 11.8 41°.25 1°.1/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.83	+18 46.9	1.319	2.112	20.2	20.4
12 13	7 55.77	+18 43.2	1.254	2.125	16.2	20.2
12 23	7 49.23	+18 49.7	1.208	2.139	11.3	20.0
1 2	7 39.95	+19 4.3	1.185	2.154	5.9	19.7
1 12	7 29.28	+19 23.2	1.187	2.169	1.1	19.4
1 22	7 18.86	+19 42.7	1.215	2.185	5.7	19.8
2 1	7 10.25	+20 0.1	1.269	2.202	10.9	20.1
2 11	7 4.59	+20 13.9	1.345	2.218	15.3	20.4

88503 2001 QO_{140} 1 11.8 48°.50 7°.5/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.87	+ 5 49.3	1.738	2.473	18.2	18.5
12 13	7 54.04	+ 4 30.2	1.661	2.482	15.4	18.3
12 23	7 47.54	+ 3 24.9	1.604	2.492	12.2	18.1
1 2	7 38.96	+ 2 37.4	1.571	2.501	9.2	18.0
1 12	7 29.31	+ 2 10.4	1.563	2.511	7.6	17.9
1 22	7 19.75	+ 2 4.2	1.582	2.521	8.5	18.0
2 1	7 11.44	+ 2 16.8	1.627	2.531	11.1	18.2
2 11	7 5.31	+ 2 43.7	1.696	2.541	14.1	18.4

373004 2011 CP_{107} 1 11.8 55°.66 2°.2/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 55.85	+14 36.4	2.009	2.766	15.4	22.0
12 13	7 52.27	+14 36.5	1.920	2.768	12.5	21.8
12 23	7 46.26	+14 46.9	1.853	2.771	8.9	21.6
1 2	7 38.32	+15 6.8	1.810	2.773	5.1	21.3
1 12	7 29.33	+15 34.0	1.796	2.776	2.2	21.1
1 22	7 20.31	+16 5.9	1.812	2.779	4.6	21.3
2 1	7 12.34	+16 39.5	1.855	2.782	8.5	21.5
2 11	7 6.29	+17 12.3	1.925	2.785	12.0	21.8

221847 2008 FF_{83} 1 11.8 261°.45 0°.1/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.90	+20 17.6	1.992	2.758	15.2	20.8
12 13	7 54.22	+20 38.0	1.888	2.745	12.2	20.6
12 23	7 47.86	+21 6.2	1.806	2.732	8.6	20.4
1 2	7 39.26	+21 39.7	1.749	2.718	4.4	20.1
1 12	7 29.31	+22 14.7	1.721	2.705	0.2	19.7
1 22	7 19.14	+22 47.5	1.723	2.691	4.7	20.0
2 1	7 9.97	+23 15.2	1.752	2.677	9.0	20.3
2 11	7 2.89	+23 36.6	1.808	2.662	12.9	20.5

68343 2001 KB_{47} 1 11.8 210°.69 6°.2/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.55	+ 4 17.5	2.354	3.057	14.8	20.0
12 13	7 54.00	+ 3 25.6	2.251	3.050	12.6	19.8
12 23	7 47.28	+ 2 45.4	2.169	3.043	10.1	19.6
1 2	7 38.81	+ 2 19.5	2.111	3.035	7.6	19.5
1 12	7 29.33	+ 2 9.6	2.082	3.026	6.3	19.4
1 22	7 19.73	+ 2 15.6	2.082	3.017	7.0	19.4
2 1	7 10.95	+ 2 35.9	2.110	3.007	9.3	19.5
2 11	7 3.81	+ 3 7.4	2.165	2.997	12.0	19.7

457071 2008 EP_{57} 1 11.8 280°.00 1°.1/11.4 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.72	+22 5.1	1.849	2.624	15.9	22.0
12 13	7 54.38	+22 35.8	1.748	2.610	12.8	21.7
12 23	7 48.15	+23 14.4	1.668	2.596	8.9	21.5
1 2	7 39.48	+23 57.4	1.613	2.582	4.6	21.2
1 12	7 29.32	+24 40.0	1.586	2.569	1.1	20.9
1 22	7 18.90	+25 17.5	1.588	2.555	5.2	21.2
2 1	7 9.59	+25 46.8	1.618	2.541	9.7	21.4
2 11	7 2.56	+26 6.9	1.672	2.527	13.8	21.6

315652 2008 DZ_{46} 1 11.8 331°.86 2°.4/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.97	+14 49.7	1.451	2.239	18.9	20.8
12 13	7 51.20	+14 53.3	1.358	2.225	15.4	20.5
12 23	7 46.28	+15 11.5	1.283	2.211	11.2	20.3
1 2	7 38.65	+15 44.0	1.232	2.198	6.3	19.9
1 12	7 29.35	+16 27.8	1.205	2.186	2.4	19.7
1 22	7 19.79	+17 18.3	1.205	2.175	5.8	19.9
2 1	7 11.50	+18 10.5	1.230	2.165	10.9	20.1
2 11	7 5.81	+18 59.9	1.278	2.156	15.6	20.4

282151 2001 RF_{82} 1 11.8 121°.56 1°.7/12.2 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.28	+17 14.2	1.811	2.564	17.0	22.0
12 13	7 59.02	+17 4.1	1.735	2.582	13.6	21.8
12 23	7 50.93	+17 2.4	1.681	2.600	9.6	21.6
1 2	7 40.67	+17 7.4	1.652	2.617	5.2	21.4
1 12	7 29.31	+17 16.9	1.651	2.633	1.7	21.2
1 22	7 18.16	+17 28.6	1.681	2.648	4.9	21.5
2 1	7 8.43	+17 40.6	1.739	2.663	9.1	21.7
2 11	7 1.09	+17 51.7	1.823	2.677	12.9	22.0

453317 2008 VA_{60} 1 11.8 105°.16 2°.0/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.04	+16 5.1	1.763	2.516	17.4	21.7
12 13	7 58.82	+15 59.7	1.694	2.540	13.9	21.6
12 23	7 50.77	+16 4.1	1.645	2.563	9.9	21.4
1 2	7 40.56	+16 16.8	1.622	2.586	5.4	21.2
1 12	7 29.32	+16 35.0	1.627	2.608	2.0	21.0
1 22	7 18.33	+16 56.1	1.662	2.629	5.0	21.2
2 1	7 8.82	+17 17.6	1.725	2.649	9.2	21.5
2 11	7 1.71	+17 37.8	1.814	2.669	12.8	21.8

147937 1038 $T\text{-}_{2}$ 1 11.8 57°.48 1°.4/12.1 17 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.26	+18 3.8	1.221	2.014	21.5	20.3
12 13	7 57.95	+18 0.4	1.159	2.030	17.2	20.1
12 23	7 50.89	+18 8.8	1.114	2.045	12.1	19.8
1 2	7 40.85	+18 27.0	1.092	2.061	6.4	19.6
1 12	7 29.31	+18 50.5	1.095	2.077	1.4	19.3
1 22	7 18.06	+19 15.2	1.123	2.094	6.1	19.6
2 1	7 8.82	+19 37.7	1.177	2.111	11.5	20.0
2 11	7 2.78	+19 56.3	1.253	2.127	16.1	20.3

259088 2002 VG_{66} 1 11.8 35°.77 10°.6/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 7.07	+11 40.5	1.019	1.804	25.4	19.2
12 13	8 3.06	+ 8 49.9	0.955	1.811	21.3	18.9
12 23	7 54.72	+ 6 5.3	0.909	1.819	16.7	18.7
1 2	7 42.88	+ 3 37.6	0.883	1.827	12.5	18.5
1 12	7 29.26	+ 1 38.2	0.881	1.836	10.6	18.4
1 22	7 16.00	+ 0 14.9	0.903	1.846	12.6	18.6
2 1	7 5.12	− 0 31.0	0.947	1.856	16.5	18.8
2 11	6 57.99	− 0 45.1	1.011	1.866	20.6	19.1

294440 2007 VR_{277} 1 11.8 334°.60 2°.0/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 56.28	+23 48.9	1.410	2.209	18.8	20.8
12 13	7 54.12	+24 19.9	1.323	2.200	15.1	20.6
12 23	7 48.45	+24 59.0	1.256	2.191	10.6	20.3
1 2	7 39.79	+25 41.5	1.212	2.183	5.5	20.0
1 12	7 29.34	+26 20.8	1.193	2.175	2.1	19.7
1 22	7 18.71	+26 51.3	1.201	2.168	6.5	20.0
2 1	7 9.62	+27 9.9	1.234	2.162	11.6	20.2
2 11	7 3.48	+27 16.5	1.289	2.157	16.2	20.5

460456 2014 SZ_{226} 1 11.8 69°.96 1°.0/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.90	+17 19.7	1.788	2.556	16.6	21.4
12 13	7 54.16	+17 33.0	1.712	2.568	13.3	21.2
12 23	7 47.69	+17 56.2	1.656	2.580	9.3	21.0
1 2	7 39.09	+18 27.2	1.625	2.593	4.9	20.7
1 12	7 29.37	+19 2.5	1.622	2.605	1.0	20.5
1 22	7 19.73	+19 38.3	1.648	2.617	4.7	20.8
2 1	7 11.37	+20 11.6	1.702	2.630	9.0	21.1
2 11	7 5.25	+20 40.4	1.781	2.642	12.8	21.3

277862 2006 JK_{20} 1 11.8 254°.71 4°.3/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.15	+ 8 2.7	2.288	3.018	14.5	20.9
12 13	7 50.63	+ 7 50.9	2.190	3.014	12.0	20.7
12 23	7 45.00	+ 7 51.7	2.113	3.010	9.1	20.5
1 2	7 37.68	+ 8 6.0	2.060	3.006	6.2	20.3
1 12	7 29.40	+ 8 33.3	2.036	3.002	4.3	20.2
1 22	7 21.04	+ 9 11.4	2.042	2.998	5.4	20.3
2 1	7 13.50	+ 9 57.5	2.075	2.994	8.2	20.4
2 11	7 7.57	+10 47.9	2.135	2.989	11.2	20.6

150200 1998 RR_{45} 1 11.8 176°.77 2°.4/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.84	+14 53.9	1.833	2.584	16.9	20.7
12 13	7 57.31	+14 48.6	1.742	2.587	13.7	20.5
12 23	7 49.95	+14 53.7	1.672	2.589	9.8	20.2
1 2	7 40.29	+15 8.7	1.627	2.590	5.6	20.0
1 12	7 29.35	+15 31.2	1.610	2.590	2.4	19.8
1 22	7 18.34	+15 58.5	1.623	2.590	5.2	19.9
2 1	7 8.57	+16 27.5	1.664	2.589	9.4	20.2
2 11	7 1.07	+16 56.0	1.731	2.587	13.3	20.4

447031 2004 PW_{73} 1 11.8 84°.46 0°.3/11.9 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.51	+18 58.8	1.566	2.336	18.5	22.0
12 13	7 58.83	+19 21.6	1.503	2.362	14.7	21.8
12 23	7 51.00	+19 54.2	1.461	2.387	10.2	21.6
1 2	7 40.75	+20 33.0	1.443	2.412	5.2	21.3
1 12	7 29.34	+21 12.9	1.453	2.436	0.3	21.0
1 22	7 18.22	+21 49.4	1.491	2.460	5.2	21.5
2 1	7 8.78	+22 19.7	1.558	2.484	9.8	21.8
2 11	7 2.03	+22 42.8	1.648	2.507	13.8	22.1

296647 2009 SR_{120} 1 11.8 44°.32 1°.3/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.29	+18 6.7	1.805	2.575	16.4	20.9
12 13	7 53.68	+18 0.8	1.725	2.582	13.2	20.7
12 23	7 47.37	+18 2.8	1.665	2.590	9.3	20.5
1 2	7 38.94	+18 11.4	1.630	2.597	4.9	20.2
1 12	7 29.40	+18 24.1	1.623	2.605	1.3	20.0
1 22	7 19.92	+18 38.6	1.644	2.613	4.7	20.3
2 1	7 11.71	+18 52.7	1.693	2.621	9.0	20.5
2 11	7 5.70	+19 5.1	1.767	2.630	12.8	20.8

446870 2001 XE_{123} 1 11.8 358°.90 5°.1/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 49.11	+14 20.7	0.971	1.797	23.5	20.3
12 13	7 49.24	+13 27.7	0.903	1.790	19.3	20.0
12 23	7 45.46	+12 48.8	0.852	1.786	14.3	19.7
1 2	7 38.37	+12 27.3	0.819	1.784	8.8	19.4
1 12	7 29.41	+12 24.1	0.807	1.784	5.2	19.2
1 22	7 20.46	+12 37.1	0.817	1.787	8.0	19.4
2 1	7 13.43	+13 2.3	0.849	1.791	13.4	19.7
2 11	7 9.76	+13 34.1	0.900	1.798	18.5	20.0

296090 2009 BP_{20} 1 11.8 52°.72 0°.3/11.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.66	+21 37.2	1.318	2.110	20.3	20.9
12 13	7 58.00	+21 44.5	1.259	2.130	16.1	20.7
12 23	7 50.74	+21 59.6	1.218	2.151	11.1	20.5
1 2	7 40.72	+22 18.6	1.201	2.172	5.6	20.2
1 12	7 29.37	+22 36.9	1.210	2.193	0.4	19.9
1 22	7 18.40	+22 50.5	1.245	2.214	5.8	20.4
2 1	7 9.39	+22 57.9	1.306	2.236	10.9	20.7
2 11	7 3.45	+22 59.3	1.390	2.258	15.2	21.0

289191 2004 WE_{1} 1 11.8 23°.50 0°.6/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.95	+19 45.5	1.216	2.021	21.0	20.9
12 13	7 54.70	+19 44.4	1.150	2.028	16.8	20.6
12 23	7 48.77	+19 53.5	1.102	2.036	11.7	20.4
1 2	7 39.86	+20 10.2	1.075	2.046	6.0	20.1
1 12	7 29.39	+20 30.4	1.073	2.056	0.6	19.7
1 22	7 19.09	+20 49.8	1.096	2.067	6.0	20.1
2 1	7 10.68	+21 5.6	1.144	2.079	11.5	20.5
2 11	7 5.39	+21 16.6	1.213	2.092	16.2	20.8

82937 2001 QW_{113} 1 11.8 48°.81 9°.6/15.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 53.47	− 6 31.0	2.353	3.012	15.8	19.5
12 13	7 49.95	− 7 43.3	2.271	3.017	14.1	19.4
12 23	7 44.43	− 8 38.0	2.207	3.022	12.2	19.3
1 2	7 37.36	− 9 10.7	2.165	3.027	10.6	19.2
1 12	7 29.45	− 9 18.7	2.148	3.033	9.6	19.1
1 22	7 21.53	− 9 1.9	2.156	3.038	9.8	19.1
2 1	7 14.42	− 8 22.6	2.189	3.044	10.9	19.2
2 11	7 8.87	− 7 25.5	2.246	3.049	12.6	19.3

364333 2006 UR_{137} 1 11.8 182°.62 2°.2/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.48	+26 41.1	2.142	2.905	14.4	21.9
12 13	7 56.81	+27 9.3	2.051	2.906	11.5	21.7
12 23	7 49.49	+27 40.1	1.982	2.906	8.1	21.5
1 2	7 40.03	+28 9.2	1.939	2.905	4.4	21.2
1 12	7 29.39	+28 32.2	1.926	2.905	2.3	21.1
1 22	7 18.72	+28 46.0	1.943	2.904	5.1	21.3
2 1	7 9.21	+28 49.5	1.988	2.902	8.8	21.5
2 11	7 1.84	+28 43.5	2.060	2.900	12.2	21.7

427024 2014 SZ_{229} 1 11.8 94°.07 2°.3/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.55	+25 46.2	1.892	2.664	15.7	21.3
12 13	7 56.30	+26 23.2	1.816	2.676	12.5	21.1
12 23	7 49.21	+27 4.0	1.761	2.688	8.7	20.9
1 2	7 39.89	+27 43.9	1.733	2.700	4.7	20.7
1 12	7 29.40	+28 17.6	1.733	2.712	2.4	20.5
1 22	7 19.00	+28 41.5	1.762	2.724	5.4	20.7
2 1	7 9.96	+28 54.0	1.819	2.735	9.3	21.0
2 11	7 3.25	+28 55.9	1.901	2.746	12.8	21.2

161156 2002 SZ_{37} 1 11.8 79°.95 0°.0/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.14	+20 15.4	2.307	3.062	13.7	20.3
12 13	7 53.60	+20 33.3	2.237	3.087	10.8	20.2
12 23	7 46.88	+20 56.7	2.189	3.112	7.5	20.0
1 2	7 38.54	+21 23.3	2.168	3.136	3.8	19.8
1 12	7 29.43	+21 50.0	2.177	3.161	0.1	19.5
1 22	7 20.48	+22 14.3	2.217	3.185	3.9	19.9
2 1	7 12.60	+22 34.5	2.286	3.208	7.3	20.2
2 11	7 6.51	+22 49.8	2.382	3.232	10.4	20.4

29748 1999 BZ_{31} 1 11.8 101°.96 1°.5/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 6.46	+24 53.7	1.665	2.434	17.6	19.1
12 13	8 1.11	+25 3.5	1.597	2.455	14.0	18.9
12 23	7 52.56	+25 16.5	1.550	2.476	9.7	18.7
1 2	7 41.54	+25 28.4	1.527	2.496	5.0	18.4
1 12	7 29.37	+25 34.9	1.533	2.515	1.5	18.2
1 22	7 17.52	+25 33.5	1.568	2.534	5.4	18.5
2 1	7 7.41	+25 23.9	1.631	2.552	9.8	18.8
2 11	7 0.05	+25 7.9	1.719	2.570	13.6	19.1

188862 2006 TL_{42} 1 11.8 326°.28 1°.8/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.96	+17 52.7	1.231	2.029	21.1	20.3
12 13	7 55.76	+17 39.7	1.148	2.022	17.1	20.0
12 23	7 49.77	+17 38.1	1.083	2.015	12.2	19.7
1 2	7 40.54	+17 46.9	1.039	2.008	6.6	19.4
1 12	7 29.38	+18 3.1	1.020	2.002	1.8	19.1
1 22	7 18.06	+18 22.9	1.026	1.996	6.4	19.3
2 1	7 8.45	+18 43.1	1.056	1.991	12.2	19.6
2 11	7 2.04	+19 1.2	1.108	1.987	17.4	19.9

428089 2006 PK_{32} 1 11.8 174°.68 4°.7/ 9.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.50	+37 32.0	2.761	3.509	11.8	21.0
12 13	7 56.38	+38 8.1	2.673	3.510	9.7	20.9
12 23	7 48.92	+38 39.9	2.608	3.512	7.4	20.7
1 2	7 39.64	+39 2.6	2.571	3.513	5.4	20.6
1 12	7 29.41	+39 12.1	2.563	3.513	4.8	20.6
1 22	7 19.24	+39 6.5	2.584	3.514	6.1	20.7
2 1	7 10.14	+38 45.9	2.634	3.514	8.4	20.8
2 11	7 2.92	+38 12.7	2.711	3.514	10.7	21.0

152910 2000 DS_{74} 1 11.8 249°.35 3°.8/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.92	+12 16.9	1.621	2.381	18.4	20.4
12 13	7 55.52	+12 0.3	1.525	2.373	15.1	20.1
12 23	7 49.05	+11 57.2	1.448	2.364	11.2	19.9
1 2	7 40.01	+12 8.3	1.395	2.354	6.9	19.6
1 12	7 29.40	+12 32.5	1.369	2.345	3.9	19.4
1 22	7 18.58	+13 6.9	1.370	2.335	6.2	19.5
2 1	7 8.97	+13 47.7	1.398	2.325	10.6	19.7
2 11	7 1.82	+14 31.0	1.450	2.315	14.9	20.0

162427 2000 EH_{162} 1 11.8 256°.71 5°.1/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.80	+ 5 18.4	2.296	3.016	14.7	20.6
12 13	7 50.33	+ 5 5.3	2.200	3.014	12.3	20.4
12 23	7 44.79	+ 5 6.5	2.124	3.012	9.6	20.3
1 2	7 37.60	+ 5 23.3	2.072	3.009	6.9	20.1
1 12	7 29.47	+ 5 55.5	2.049	3.007	5.1	20.0
1 22	7 21.26	+ 6 40.9	2.054	3.004	5.9	20.0
2 1	7 13.86	+ 7 36.2	2.088	3.002	8.4	20.2
2 11	7 8.05	+ 8 37.3	2.148	2.999	11.3	20.3

77609 2001 KM_{34} 1 11.8 143°.70 0°.2/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 56.42	+19 25.9	2.434	3.188	13.1	20.1
12 13	7 52.32	+19 43.1	2.343	3.193	10.4	19.9
12 23	7 46.09	+20 6.5	2.276	3.198	7.3	19.7
1 2	7 38.22	+20 34.0	2.235	3.203	3.7	19.5
1 12	7 29.46	+21 3.0	2.224	3.207	0.2	19.2
1 22	7 20.68	+21 30.8	2.243	3.211	3.8	19.5
2 1	7 12.79	+21 55.4	2.292	3.215	7.3	19.8
2 11	7 6.56	+22 15.7	2.368	3.219	10.4	20.0

456649 2007 RU_{18} 1 11.8 158°.79 0°.9/12.1 18

12 3	8 1.81	+18 9.8	2.078	2.829	15.2	22.5
12 13	7 56.91	+18 17.8	1.990	2.836	12.1	22.3
12 23	7 49.46	+18 33.5	1.923	2.843	8.5	22.1
1 2	7 39.99	+18 54.8	1.883	2.849	4.5	21.8
1 12	7 29.42	+19 19.0	1.872	2.855	0.9	21.6
1 22	7 18.86	+19 43.0	1.892	2.860	4.4	21.9
2 1	7 9.44	+20 4.8	1.941	2.864	8.4	22.1
2 11	7 2.08	+20 23.2	2.016	2.867	11.9	22.3

430263 2013 WE_{40} 1 11.8 31°.94 0°.8/11.5 18

12 3	7 56.00	+23 0.5	1.994	2.768	14.9	21.1
12 13	7 52.48	+23 14.4	1.915	2.777	11.8	20.9
12 23	7 46.44	+23 32.9	1.858	2.786	8.2	20.7
1 2	7 38.45	+23 52.9	1.826	2.795	4.2	20.5
1 12	7 29.45	+24 11.3	1.823	2.805	0.8	20.3
1 22	7 20.54	+24 25.2	1.848	2.816	4.5	20.6
2 1	7 12.80	+24 33.3	1.902	2.826	8.4	20.8
2 11	7 7.10	+24 35.4	1.981	2.837	11.9	21.1

4376 Shigemori 1 11.8 38°.42 0°.8/11.9 18

12 3	7 59.31	+19 23.2	1.136	1.941	22.1	16.2
12 13	7 56.75	+19 22.1	1.075	1.953	17.7	15.9
12 23	7 50.26	+19 32.4	1.032	1.967	12.4	15.7
1 2	7 40.64	+19 51.1	1.010	1.981	6.4	15.4
1 12	7 29.42	+20 13.6	1.013	1.996	0.8	15.1
1 22	7 18.49	+20 35.4	1.040	2.011	6.3	15.5
2 1	7 9.65	+20 53.3	1.092	2.027	11.9	15.8
2 11	7 4.16	+21 6.2	1.165	2.044	16.7	16.2

4360 Xuyi 1 11.8 44°.12 1°.2/11.5 18

12 3	7 59.73	+23 40.1	1.509	2.297	18.3	16.7
12 13	7 56.20	+23 51.6	1.441	2.310	14.6	16.5
12 23	7 49.40	+24 8.3	1.393	2.324	10.1	16.3
1 2	7 40.05	+24 26.2	1.369	2.339	5.1	16.1
1 12	7 29.43	+24 40.9	1.371	2.354	1.2	15.8
1 22	7 19.05	+24 49.0	1.401	2.369	5.6	16.2
2 1	7 10.34	+24 49.4	1.458	2.385	10.2	16.5
2 11	7 4.38	+24 43.0	1.538	2.401	14.3	16.7

83959 2001 XD_{80} 1 11.8 153°.58 0°.9/11.3 18

12 3	7 55.68	+21 19.6	2.730	3.482	11.9	19.9
12 13	7 51.60	+22 8.3	2.636	3.486	9.4	19.7
12 23	7 45.56	+23 3.1	2.566	3.489	6.5	19.6
1 2	7 37.97	+24 1.0	2.524	3.493	3.3	19.4
1 12	7 29.50	+24 58.1	2.514	3.496	0.9	19.2
1 22	7 20.95	+25 50.9	2.534	3.499	3.8	19.4
2 1	7 13.15	+26 36.9	2.586	3.502	6.9	19.6
2 11	7 6.83	+27 14.8	2.664	3.504	9.7	19.8

288387 2004 CX_{80} 1 11.8 295°.45 2°.7/13.1 18

12 3	7 53.69	+11 32.5	2.323	3.065	14.0	20.5
12 13	7 50.31	+11 42.2	2.223	3.061	11.4	20.3
12 23	7 44.82	+12 3.6	2.145	3.056	8.4	20.1
1 2	7 37.65	+12 36.3	2.093	3.051	5.1	19.9
1 12	7 29.51	+13 18.4	2.070	3.046	2.7	19.7
1 22	7 21.26	+14 7.0	2.076	3.041	4.4	19.8
2 1	7 13.81	+14 58.9	2.112	3.037	7.7	20.0
2 11	7 7.97	+15 50.8	2.174	3.032	10.9	20.2

464552 2016 CS_{40} 1 11.8 35°.78 0°.3/11.9 18

12 3	7 57.05	+18 54.2	1.574	2.356	17.9	21.4
12 13	7 53.99	+19 13.9	1.498	2.364	14.3	21.2
12 23	7 47.88	+19 44.0	1.442	2.372	10.0	20.9
1 2	7 39.34	+20 21.4	1.411	2.380	5.1	20.7
1 12	7 29.47	+21 1.8	1.406	2.389	0.3	20.3
1 22	7 19.66	+21 40.5	1.429	2.398	5.2	20.7
2 1	7 11.28	+22 14.0	1.478	2.408	9.9	21.0
2 11	7 5.42	+22 40.8	1.552	2.418	14.0	21.3

227457 2005 WQ_{101} 1 11.8 3°.07 0°.3/11.7 18

12 3	7 57.39	+21 13.7	1.915	2.687	15.6	21.4
12 13	7 53.79	+21 27.0	1.827	2.687	12.4	21.2
12 23	7 47.51	+21 46.6	1.759	2.687	8.7	21.0
1 2	7 39.09	+22 10.0	1.717	2.687	4.4	20.7
1 12	7 29.48	+22 33.6	1.704	2.687	0.3	20.4
1 22	7 19.84	+22 54.3	1.719	2.687	4.7	20.7
2 1	7 11.36	+23 10.0	1.762	2.688	8.9	21.0
2 11	7 5.04	+23 20.0	1.831	2.688	12.6	21.2

328314 2008 HH_{55} 1 11.8 26°.15 1°.3/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 57.43	+22 39.7	1.696	2.478	16.8	20.8
12 13	7 54.22	+23 11.0	1.615	2.481	13.4	20.6
12 23	7 48.02	+23 49.5	1.555	2.485	9.3	20.4
1 2	7 39.42	+24 31.2	1.520	2.489	4.8	20.1
1 12	7 29.49	+25 10.8	1.512	2.494	1.3	19.9
1 22	7 19.55	+25 43.8	1.532	2.499	5.4	20.2
2 1	7 10.97	+26 7.6	1.579	2.504	9.8	20.4
2 11	7 4.83	+26 21.8	1.651	2.510	13.7	20.7

121097 1999 FM_{54} 1 11.8 220°.06 1°.8/12.2 18

12 3	8 1.04	+17 34.9	1.745	2.509	17.1	20.3
12 13	7 56.94	+17 18.1	1.651	2.505	13.9	20.1
12 23	7 49.88	+17 9.1	1.578	2.500	9.9	19.8
1 2	7 40.37	+17 7.0	1.529	2.495	5.4	19.5
1 12	7 29.47	+17 10.1	1.508	2.489	1.8	19.3
1 22	7 18.47	+17 16.1	1.515	2.484	5.2	19.5
2 1	7 8.75	+17 23.5	1.551	2.477	9.8	19.8
2 11	7 1.42	+17 30.9	1.611	2.471	13.9	20.0

94694 2001 XF_{35} 1 11.8 359°.51 3°.3/11.2 18

12 3	8 2.77	+28 40.0	1.414	2.205	19.1	19.7
12 13	7 59.27	+28 52.9	1.334	2.205	15.4	19.5
12 23	7 51.97	+29 6.7	1.274	2.204	10.9	19.2
1 2	7 41.56	+29 15.5	1.236	2.204	6.1	19.0
1 12	7 29.44	+29 13.5	1.225	2.204	3.3	18.8
1 22	7 17.42	+28 57.5	1.241	2.204	6.9	19.0
2 1	7 7.29	+28 28.2	1.282	2.205	11.7	19.3
2 11	7 0.37	+27 49.1	1.346	2.206	16.1	19.5

32820 1991 PU_{19} 1 11.8 90°.76 0°.1/11.8 18

12 3	8 1.69	+21 46.0	2.049	2.808	15.1	18.9
12 13	7 56.68	+21 46.6	1.978	2.830	12.0	18.8
12 23	7 49.16	+21 51.5	1.928	2.852	8.3	18.6
1 2	7 39.76	+21 58.3	1.905	2.874	4.2	18.4
1 12	7 29.49	+22 4.4	1.912	2.895	0.1	18.1
1 22	7 19.44	+22 7.7	1.948	2.916	4.3	18.5
2 1	7 10.68	+22 7.5	2.014	2.937	8.1	18.7
2 11	7 4.04	+22 3.8	2.106	2.957	11.5	19.0

397475 2007 PK_{21} 1 11.8 74°.04 0°.8/12.1 17

12 3	8 2.36	+17 55.0	1.550	2.321	18.6	21.1
12 13	7 57.94	+18 10.4	1.488	2.347	14.8	20.9
12 23	7 50.41	+18 36.5	1.447	2.372	10.3	20.7
1 2	7 40.50	+19 9.9	1.430	2.398	5.3	20.5
1 12	7 29.47	+19 46.4	1.440	2.423	0.8	20.3
1 22	7 18.74	+20 21.6	1.479	2.448	5.1	20.6
2 1	7 9.67	+20 52.4	1.545	2.473	9.7	20.9
2 11	7 3.25	+21 17.5	1.636	2.498	13.7	21.2

451411 2011 QK_{27} 1 11.8 86°.46 3°.2/10.9 15

12 3	8 6.75	+27 59.3	1.639	2.412	17.7	21.9
12 13	8 1.48	+28 36.1	1.579	2.438	14.1	21.7
12 23	7 52.88	+29 14.6	1.539	2.465	9.8	21.5
1 2	7 41.76	+29 48.5	1.525	2.490	5.5	21.3
1 12	7 29.46	+30 11.7	1.539	2.516	3.3	21.3
1 22	7 17.55	+30 21.0	1.581	2.540	6.3	21.5
2 1	7 7.48	+30 16.2	1.651	2.565	10.3	21.8
2 11	7 0.29	+30 0.2	1.745	2.588	13.8	22.1

278833 2008 SN_{287} 1 11.8 31°.64 1°.6/11.3 18

12 3	7 58.31	+25 49.8	2.012	2.785	14.9	20.9
12 13	7 54.39	+26 1.0	1.928	2.788	11.8	20.7
12 23	7 47.84	+26 14.4	1.865	2.792	8.2	20.5
1 2	7 39.22	+26 26.5	1.827	2.796	4.3	20.2
1 12	7 29.52	+26 34.1	1.819	2.800	1.7	20.0
1 22	7 19.88	+26 34.6	1.839	2.804	4.9	20.3
2 1	7 11.46	+26 27.4	1.888	2.809	8.7	20.5
2 11	7 5.18	+26 13.5	1.962	2.814	12.2	20.7

67138 2000 AF_{165} 1 11.8 40°.06 1°.2/11.4 18

12 3	7 57.45	+23 16.6	1.941	2.714	15.3	17.9
12 13	7 53.83	+23 41.5	1.856	2.718	12.2	17.6
12 23	7 47.53	+24 11.8	1.793	2.722	8.5	17.4
1 2	7 39.11	+24 43.9	1.756	2.726	4.3	17.2
1 12	7 29.53	+25 13.6	1.747	2.730	1.2	17.0
1 22	7 19.95	+25 37.5	1.768	2.734	4.8	17.2
2 1	7 11.56	+25 53.5	1.816	2.738	8.9	17.5
2 11	7 5.33	+26 1.6	1.889	2.743	12.5	17.7

239902 2000 SU_{125} 1 11.8 126°.58 1°.2/11.4 18

12 3	8 4.44	+23 23.3	2.000	2.757	15.5	21.5
12 13	7 59.08	+23 48.5	1.924	2.776	12.3	21.3
12 23	7 50.99	+24 18.3	1.870	2.793	8.5	21.1
1 2	7 40.78	+24 48.8	1.842	2.810	4.3	20.9
1 12	7 29.50	+25 15.7	1.844	2.826	1.2	20.7
1 22	7 18.36	+25 35.7	1.876	2.841	4.8	20.9
2 1	7 8.57	+25 47.5	1.938	2.856	8.7	21.2
2 11	7 1.06	+25 51.5	2.025	2.869	12.2	21.5

351608 2005 VZ_{124} 1 11.8 258°.73 1°.2/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.83	+18 13.4	1.688	2.458	17.4	21.7
12 13	7 56.25	+18 11.0	1.589	2.447	14.1	21.4
12 23	7 49.60	+18 17.5	1.510	2.435	10.0	21.2
1 2	7 40.34	+18 31.5	1.455	2.422	5.4	20.9
1 12	7 29.50	+18 50.0	1.427	2.410	1.2	20.6
1 22	7 18.43	+19 10.1	1.428	2.397	5.3	20.8
2 1	7 8.59	+19 29.0	1.456	2.385	10.2	21.1
2 11	7 1.21	+19 45.2	1.509	2.371	14.5	21.3

290650 2005 UF_{280} 1 11.8 349°.15 5°.3/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.12	+ 8 43.2	1.885	2.628	16.7	20.7
12 13	7 52.66	+ 8 3.0	1.795	2.627	13.9	20.5
12 23	7 46.67	+ 7 35.3	1.725	2.626	10.7	20.3
1 2	7 38.67	+ 7 22.1	1.680	2.625	7.4	20.1
1 12	7 29.54	+ 7 24.2	1.661	2.625	5.3	19.9
1 22	7 20.36	+ 7 40.3	1.670	2.624	6.6	20.0
2 1	7 12.25	+ 8 7.9	1.706	2.624	9.7	20.2
2 11	7 6.14	+ 8 43.3	1.767	2.624	13.1	20.4

177511 2004 EW_{64} 1 11.8 250°.82 3°.8/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.92	+27 40.9	1.891	2.666	15.6	20.5
12 13	7 56.26	+28 48.5	1.798	2.659	12.5	20.2
12 23	7 49.58	+30 1.8	1.727	2.652	8.9	20.0
1 2	7 40.33	+31 14.4	1.682	2.645	5.3	19.8
1 12	7 29.51	+32 18.9	1.665	2.638	3.9	19.7
1 22	7 18.45	+33 9.2	1.677	2.631	6.7	19.8
2 1	7 8.58	+33 42.4	1.717	2.623	10.5	20.0
2 11	7 1.12	+33 58.9	1.781	2.615	14.0	20.2

33027 Brouillac 1 11.8 155°.55 2°.7/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.64	+12 58.9	2.039	2.777	15.8	20.8
12 13	7 56.79	+13 0.2	1.951	2.786	12.8	20.6
12 23	7 49.40	+13 12.8	1.884	2.795	9.3	20.4
1 2	7 40.01	+13 35.9	1.844	2.803	5.5	20.2
1 12	7 29.53	+14 7.5	1.832	2.810	2.7	20.0
1 22	7 19.04	+14 44.5	1.851	2.816	4.8	20.2
2 1	7 9.67	+15 23.7	1.899	2.821	8.6	20.4
2 11	7 2.33	+16 2.5	1.973	2.825	12.1	20.7

244103 2001 UV_{171} 1 11.8 19°.87 4°.1/12.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.96	+14 47.7	1.073	1.882	22.9	20.3
12 13	7 53.41	+14 10.5	1.013	1.890	18.6	20.1
12 23	7 48.03	+13 47.9	0.968	1.899	13.5	19.8
1 2	7 39.58	+13 41.1	0.944	1.910	8.0	19.5
1 12	7 29.53	+13 49.0	0.943	1.922	4.1	19.4
1 22	7 19.71	+14 8.2	0.966	1.935	7.1	19.6
2 1	7 11.87	+14 34.6	1.012	1.950	12.3	19.9
2 11	7 7.25	+15 3.8	1.078	1.965	17.1	20.2

280001 2001 UH_{156} 1 11.8 105°.83 5°.5/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.05	+ 2 30.9	2.781	3.471	13.0	20.9
12 13	7 50.74	+ 1 52.6	2.701	3.489	11.0	20.8
12 23	7 44.73	+ 1 26.5	2.642	3.507	8.8	20.6
1 2	7 37.47	+ 1 14.1	2.609	3.525	6.8	20.5
1 12	7 29.58	+ 1 16.2	2.604	3.542	5.6	20.5
1 22	7 21.76	+ 1 31.8	2.629	3.559	6.0	20.5
2 1	7 14.70	+ 1 59.0	2.682	3.576	7.7	20.7
2 11	7 8.98	+ 2 34.7	2.762	3.592	9.7	20.8

376660 2013 QA_{9} 1 11.8 33°.37 2°.9/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.40	+13 39.4	1.866	2.627	16.3	20.7
12 13	7 52.10	+13 28.2	1.784	2.633	13.2	20.5
12 23	7 46.26	+13 28.0	1.723	2.640	9.6	20.3
1 2	7 38.45	+13 38.5	1.686	2.647	5.7	20.1
1 12	7 29.57	+13 58.3	1.677	2.654	2.9	19.9
1 22	7 20.73	+14 24.7	1.696	2.662	5.0	20.1
2 1	7 13.02	+14 55.0	1.742	2.670	8.8	20.3
2 11	7 7.35	+15 26.1	1.814	2.678	12.4	20.6

21845 1999 TC_{113} 1 11.8 207°.12 1°.0/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.31	+23 57.2	1.936	2.701	15.6	18.8
12 13	7 57.76	+24 4.1	1.841	2.697	12.5	18.6
12 23	7 50.34	+24 14.8	1.768	2.693	8.8	18.4
1 2	7 40.59	+24 25.8	1.720	2.689	4.5	18.1
1 12	7 29.53	+24 33.7	1.701	2.684	1.0	17.9
1 22	7 18.41	+24 35.8	1.712	2.678	4.9	18.1
2 1	7 8.54	+24 31.2	1.751	2.673	9.2	18.4
2 11	7 0.98	+24 20.4	1.816	2.666	13.0	18.6

322807 2001 RX_{123} 1 11.8 146°.02 11°.2/ 8.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 15.48	+51 31.2	1.975	2.701	16.6	20.8
12 13	8 9.65	+52 46.6	1.906	2.703	14.6	20.7
12 23	7 59.32	+53 48.5	1.857	2.705	12.8	20.6
1 2	7 45.32	+54 25.7	1.831	2.707	11.5	20.5
1 12	7 29.43	+54 29.2	1.829	2.710	11.3	20.5
1 22	7 13.93	+53 56.1	1.852	2.711	12.3	20.5
2 1	7 0.96	+52 49.8	1.899	2.713	14.0	20.7
2 11	6 51.94	+51 18.9	1.967	2.715	16.0	20.8

205933 2002 JD_{26} 1 11.8 315°.66 2°.7/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 54.57	+14 20.4	1.411	2.197	19.5	19.3
12 13	7 52.70	+14 22.4	1.314	2.179	16.0	19.1
12 23	7 47.52	+14 39.9	1.236	2.162	11.6	18.7
1 2	7 39.46	+15 12.8	1.180	2.145	6.7	18.4
1 12	7 29.55	+15 58.6	1.149	2.129	2.7	18.1
1 22	7 19.26	+16 52.4	1.144	2.114	6.1	18.3
2 1	7 10.24	+17 48.7	1.164	2.099	11.4	18.5
2 11	7 3.94	+18 42.6	1.207	2.085	16.3	18.8

69629 1998 FS_{62} 1 11.8 231°.13 3°.7/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.72	+12 2.8	1.892	2.640	16.5	19.7
12 13	7 54.87	+11 44.6	1.793	2.632	13.6	19.5
12 23	7 48.34	+11 38.0	1.714	2.624	10.1	19.2
1 2	7 39.60	+11 43.4	1.659	2.616	6.3	19.0
1 12	7 29.55	+12 0.2	1.633	2.607	3.7	18.8
1 22	7 19.35	+12 26.1	1.635	2.598	5.6	18.9
2 1	7 10.19	+12 58.4	1.665	2.589	9.5	19.1
2 11	7 3.12	+13 33.8	1.721	2.579	13.3	19.3

451021 2008 UH_{365} 1 11.8 56°.99 1°.6/11.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.13	+18 58.1	1.304	2.093	20.6	21.1
12 13	7 57.82	+20 22.1	1.245	2.115	16.3	20.9
12 23	7 50.87	+22 1.9	1.205	2.138	11.2	20.6
1 2	7 40.98	+23 49.6	1.190	2.160	5.6	20.4
1 12	7 29.53	+25 34.5	1.201	2.183	1.7	20.2
1 22	7 18.25	+27 7.0	1.240	2.206	6.4	20.6
2 1	7 8.85	+28 21.1	1.305	2.229	11.5	20.9
2 11	7 2.57	+29 15.6	1.393	2.253	15.7	21.2

239317 2007 RG_{34} 1 11.8 155°.98 1°.4/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.37	+17 8.5	2.187	2.930	14.7	21.2
12 13	7 57.19	+17 6.1	2.098	2.940	11.8	21.0
12 23	7 49.57	+17 11.1	2.032	2.948	8.4	20.8
1 2	7 40.07	+17 21.9	1.992	2.956	4.5	20.5
1 12	7 29.55	+17 36.4	1.982	2.964	1.4	20.3
1 22	7 19.07	+17 52.5	2.003	2.970	4.3	20.6
2 1	7 9.69	+18 8.4	2.054	2.975	8.1	20.8
2 11	7 2.26	+18 22.7	2.131	2.980	11.5	21.0

239888 2000 QE_{171} 1 11.8 40°.22 4°.4/13.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.26	+12 38.6	1.208	1.996	22.0	19.4
12 13	7 55.42	+12 8.7	1.152	2.015	17.9	19.2
12 23	7 49.05	+11 55.2	1.113	2.035	13.0	18.9
1 2	7 39.96	+11 58.9	1.095	2.056	7.9	18.7
1 12	7 29.55	+12 18.0	1.102	2.078	4.5	18.6
1 22	7 19.49	+12 48.7	1.134	2.100	6.8	18.8
2 1	7 11.31	+13 26.2	1.190	2.123	11.4	19.1
2 11	7 6.10	+14 5.8	1.269	2.147	15.7	19.4

460819 2014 WT_{55} 1 11.8 103°.38 1°.3/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.39	+16 53.7	2.166	2.916	14.6	21.8
12 13	7 54.76	+16 55.7	2.089	2.934	11.7	21.7
12 23	7 47.82	+17 5.4	2.034	2.953	8.2	21.5
1 2	7 39.13	+17 21.4	2.006	2.971	4.4	21.3
1 12	7 29.57	+17 41.4	2.007	2.988	1.4	21.1
1 22	7 20.14	+18 2.9	2.038	3.006	4.1	21.3
2 1	7 11.81	+18 23.9	2.099	3.023	7.8	21.6
2 11	7 5.38	+18 43.1	2.186	3.039	11.0	21.8

412367 2013 MF_{6} 1 11.8 222°.32 5°.6/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.05	+ 6 29.5	2.179	2.898	15.4	21.8
12 13	7 53.90	+ 5 51.3	2.076	2.890	13.0	21.7
12 23	7 47.42	+ 5 25.2	1.993	2.881	10.1	21.4
1 2	7 39.05	+ 5 13.6	1.935	2.871	7.3	21.3
1 12	7 29.58	+ 5 17.1	1.905	2.862	5.6	21.1
1 22	7 19.95	+ 5 35.2	1.904	2.851	6.6	21.2
2 1	7 11.20	+ 6 5.5	1.931	2.840	9.3	21.3
2 11	7 4.21	+ 6 44.6	1.984	2.829	12.4	21.5

415480 2014 OJ_{195} 1 11.8 101°.07 2°.5/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.95	+12 57.1	2.045	2.787	15.6	21.6
12 13	7 55.28	+13 1.8	1.972	2.810	12.6	21.5
12 23	7 48.22	+13 17.8	1.920	2.832	9.1	21.3
1 2	7 39.35	+13 44.1	1.893	2.853	5.3	21.1
1 12	7 29.58	+14 18.2	1.896	2.874	2.6	21.0
1 22	7 19.94	+14 57.0	1.929	2.894	4.6	21.1
2 1	7 11.47	+15 37.4	1.991	2.914	8.2	21.4
2 11	7 4.96	+16 16.7	2.079	2.934	11.5	21.6

486798 2014 HO_{163} 1 11.8 237°.51 2°.4/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.84	+26 17.4	1.489	2.274	18.7	21.7
12 13	8 0.00	+26 33.4	1.402	2.269	15.0	21.4
12 23	7 52.49	+26 53.1	1.335	2.264	10.6	21.2
1 2	7 41.90	+27 11.2	1.291	2.259	5.7	20.9
1 12	7 29.52	+27 21.9	1.274	2.254	2.4	20.7
1 22	7 17.08	+27 21.3	1.284	2.249	6.5	20.9
2 1	7 6.33	+27 8.8	1.320	2.244	11.5	21.2
2 11	6 58.67	+26 46.4	1.380	2.238	15.9	21.4

357585 2004 VB_8 1 11.8 32°.71 5°.4/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.25	+28 26.2	1.210	2.020	20.7	20.0
12 13	7 57.01	+29 43.5	1.151	2.032	16.5	19.7
12 23	7 50.69	+31 6.3	1.111	2.045	11.8	19.5
1 2	7 41.01	+32 24.5	1.093	2.058	7.2	19.3
1 12	7 29.54	+33 27.4	1.100	2.073	5.5	19.2
1 22	7 18.27	+34 7.6	1.133	2.088	8.7	19.5
2 1	7 9.13	+34 23.6	1.189	2.105	13.2	19.8
2 11	7 3.51	+34 18.7	1.265	2.121	17.2	20.1

37098 2000 UL_{94} 1 11.8 181°.36 3°.2/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.22	+30 5.0	2.250	3.012	13.8	19.8
12 13	7 56.58	+30 36.8	2.160	3.013	11.1	19.7
12 23	7 49.34	+31 8.8	2.092	3.013	7.9	19.5
1 2	7 40.02	+31 36.4	2.051	3.013	4.7	19.3
1 12	7 29.57	+31 54.9	2.039	3.012	3.3	19.2
1 22	7 19.12	+32 1.6	2.058	3.012	5.5	19.3
2 1	7 9.82	+31 55.8	2.104	3.011	8.8	19.5
2 11	7 2.61	+31 39.1	2.177	3.010	11.9	19.7

67306 2000 GP_{163} 1 11.8 216°.41 4°.5/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.11	+ 6 45.5	2.477	3.197	13.8	19.7
12 13	7 50.44	+ 6 28.0	2.378	3.194	11.5	19.5
12 23	7 44.81	+ 6 22.5	2.301	3.191	8.8	19.3
1 2	7 37.65	+ 6 30.2	2.249	3.188	6.2	19.2
1 12	7 29.62	+ 6 50.8	2.225	3.185	4.6	19.1
1 22	7 21.52	+ 7 22.8	2.231	3.182	5.4	19.1
2 1	7 14.17	+ 8 3.7	2.265	3.179	7.9	19.2
2 11	7 8.31	+ 8 50.1	2.326	3.175	10.6	19.4

449243 2013 CS_{175} 1 11.8 26°.08 3°.4/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.58	+13 36.4	1.332	2.117	20.5	20.5
12 13	7 54.09	+13 26.2	1.259	2.123	16.6	20.2
12 23	7 48.25	+13 31.4	1.204	2.129	12.1	20.0
1 2	7 39.68	+13 51.8	1.172	2.135	7.1	19.7
1 12	7 29.60	+14 25.1	1.164	2.143	3.4	19.5
1 22	7 19.58	+15 6.7	1.182	2.150	6.2	19.7
2 1	7 11.15	+15 51.9	1.225	2.159	11.1	20.0
2 11	7 5.53	+16 36.3	1.291	2.168	15.6	20.3

400039 2006 QS_{164} 1 11.8 83°.06 7°.6/14.9 14 C

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.82	+ 1 16.1	1.867	2.573	18.1	21.9
12 13	7 55.25	+ 0 30.1	1.803	2.600	15.3	21.8
12 23	7 48.23	+ 0 2.9	1.759	2.628	12.3	21.7
1 2	7 39.36	− 0 2.5	1.737	2.654	9.5	21.5
1 12	7 29.63	+ 0 14.4	1.742	2.681	7.7	21.5
1 22	7 20.10	+ 0 51.5	1.774	2.707	8.2	21.6
2 1	7 11.83	+ 1 44.5	1.833	2.732	10.3	21.8
2 11	7 5.62	+ 2 47.6	1.917	2.757	12.9	22.0

302933 2003 SY_{322} 1 11.8 196°.85 1°.4/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.27	+17 18.6	2.119	2.867	15.0	21.9
12 13	7 56.58	+17 15.3	2.020	2.864	12.1	21.7
12 23	7 49.35	+17 19.4	1.942	2.861	8.6	21.5
1 2	7 40.07	+17 29.7	1.891	2.856	4.7	21.3
1 12	7 29.62	+17 44.1	1.870	2.852	1.4	21.0
1 22	7 19.08	+18 0.3	1.879	2.846	4.5	21.2
2 1	7 9.57	+18 16.4	1.917	2.840	8.5	21.5
2 11	7 2.05	+18 31.0	1.981	2.833	12.1	21.7

128641 2004 RE_{25} 1 11.8 31°.33 2°.3/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.33	+16 1.4	1.244	2.039	21.1	19.9
12 13	7 54.90	+15 55.6	1.177	2.047	17.0	19.6
12 23	7 48.91	+16 3.7	1.127	2.057	12.1	19.4
1 2	7 40.03	+16 24.6	1.100	2.067	6.7	19.1
1 12	7 29.63	+16 54.7	1.097	2.078	2.3	18.9
1 22	7 19.37	+17 29.5	1.120	2.090	6.1	19.1
2 1	7 10.89	+18 4.7	1.167	2.103	11.3	19.4
2 11	7 5.42	+18 37.0	1.237	2.116	16.0	19.8

182049 2000 DY_{36} 1 11.8 331°.38 0°.1/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.34	+20 1.9	1.620	2.402	17.5	20.7
12 13	7 54.36	+20 13.8	1.532	2.397	14.1	20.4
12 23	7 48.31	+20 34.4	1.463	2.392	9.9	20.2
1 2	7 39.72	+21 1.2	1.418	2.388	5.1	19.9
1 12	7 29.65	+21 30.3	1.401	2.384	0.2	19.5
1 22	7 19.46	+21 57.6	1.410	2.380	5.2	19.9
2 1	7 10.61	+22 20.3	1.447	2.377	10.1	20.1
2 11	7 4.26	+22 37.0	1.508	2.374	14.4	20.4

172412 2003 DC_{13} 1 11.8 74°.74 0°.1/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.22	+22 16.9	2.359	3.114	13.4	19.9
12 13	7 54.45	+22 1.3	2.280	3.130	10.7	19.7
12 23	7 47.52	+21 48.2	2.224	3.146	7.4	19.6
1 2	7 38.98	+21 36.2	2.194	3.162	3.8	19.4
1 12	7 29.67	+21 23.7	2.195	3.178	0.1	19.1
1 22	7 20.53	+21 9.9	2.226	3.194	3.8	19.4
2 1	7 12.47	+20 54.5	2.288	3.210	7.3	19.7
2 11	7 6.21	+20 37.8	2.375	3.226	10.4	19.9

89294 2001 VP_{27} 1 11.8 15°.40 0°.6/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 55.79	+19 34.5	1.140	1.951	21.7	18.8
12 13	7 54.14	+19 36.7	1.073	1.955	17.4	18.5
12 23	7 48.65	+19 50.3	1.024	1.960	12.2	18.2
1 2	7 40.00	+20 12.6	0.995	1.967	6.3	17.9
1 12	7 29.64	+20 39.0	0.991	1.974	0.6	17.6
1 22	7 19.40	+21 4.5	1.011	1.983	6.3	18.0
2 1	7 11.09	+21 25.7	1.055	1.993	12.0	18.3
2 11	7 6.04	+21 41.0	1.120	2.003	16.9	18.7

244706 2003 QJ_{35} 1 11.8 114°.48 0°.5/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.34	+21 50.4	1.891	2.652	16.1	21.6
12 13	7 58.35	+22 7.1	1.816	2.670	12.8	21.4
12 23	7 50.58	+22 29.6	1.763	2.687	8.9	21.2
1 2	7 40.65	+22 54.4	1.736	2.704	4.5	21.0
1 12	7 29.64	+23 17.6	1.738	2.721	0.5	20.7
1 22	7 18.79	+23 36.1	1.769	2.737	4.7	21.0
2 1	7 9.32	+23 48.3	1.830	2.752	8.9	21.3
2 11	7 2.19	+23 54.2	1.916	2.766	12.5	21.6

328689 2009 SR_{347} 1 11.8 112°.39 0°.3/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.16	+18 55.7	2.116	2.875	14.7	21.4
12 13	7 54.04	+19 17.5	2.033	2.885	11.7	21.3
12 23	7 47.51	+19 47.0	1.972	2.895	8.1	21.1
1 2	7 39.10	+20 21.8	1.936	2.904	4.2	20.8
1 12	7 29.67	+20 58.5	1.930	2.914	0.3	20.5
1 22	7 20.26	+21 33.6	1.955	2.923	4.2	20.9
2 1	7 11.92	+22 4.6	2.008	2.932	8.1	21.1
2 11	7 5.52	+22 30.3	2.087	2.941	11.5	21.3

433903 2015 BA_{450} 1 11.8 23°.63 2°.0/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.12	+13 10.5	2.192	2.943	14.5	20.9
12 13	7 50.79	+13 33.6	2.101	2.945	11.7	20.7
12 23	7 45.26	+14 8.7	2.032	2.947	8.4	20.5
1 2	7 37.97	+14 54.4	1.988	2.950	4.8	20.3
1 12	7 29.70	+15 48.1	1.973	2.953	2.0	20.1
1 22	7 21.35	+16 45.8	1.988	2.956	4.2	20.2
2 1	7 13.90	+17 43.8	2.032	2.959	7.8	20.5
2 11	7 8.17	+18 38.9	2.103	2.963	11.1	20.7

77967 2002 JK_5 1 11.8 198°.63 0°.0/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.31	+20 31.0	2.097	2.852	14.9	21.5
12 13	7 56.72	+20 41.9	1.999	2.849	11.9	21.3
12 23	7 49.52	+20 59.0	1.923	2.846	8.4	21.1
1 2	7 40.20	+21 20.0	1.874	2.842	4.3	20.8
1 12	7 29.67	+21 41.6	1.853	2.837	0.1	20.4
1 22	7 19.03	+22 0.8	1.863	2.831	4.4	20.8
2 1	7 9.47	+22 15.9	1.903	2.825	8.6	21.0
2 11	7 1.96	+22 26.1	1.968	2.819	12.2	21.3

398383 2011 SW_{149} 1 11.8 145°.94 2°.5/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.05	+13 58.9	1.884	2.633	16.6	22.0
12 13	7 56.58	+13 58.4	1.799	2.641	13.4	21.8
12 23	7 49.42	+14 9.3	1.735	2.650	9.7	21.5
1 2	7 40.12	+14 30.6	1.696	2.658	5.6	21.3
1 12	7 29.67	+15 0.1	1.686	2.665	2.5	21.1
1 22	7 19.23	+15 34.6	1.705	2.671	5.0	21.3
2 1	7 9.99	+16 10.8	1.753	2.678	9.0	21.6
2 11	7 2.92	+16 46.1	1.826	2.683	12.7	21.8

53091 1998 YD_8 1 11.8 285°.99 1°.5/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.87	+20 26.8	1.808	2.581	16.3	18.6
12 13	7 54.67	+21 35.4	1.711	2.573	13.0	18.4
12 23	7 48.54	+22 56.8	1.636	2.564	9.1	18.1
1 2	7 39.90	+24 26.1	1.586	2.556	4.7	17.8
1 12	7 29.68	+25 56.3	1.565	2.547	1.6	17.6
1 22	7 19.14	+27 19.9	1.574	2.539	5.6	17.9
2 1	7 9.67	+28 31.3	1.611	2.530	10.0	18.1
2 11	7 2.49	+29 28.1	1.672	2.522	14.0	18.3

110590 2001 TF_{125} 1 11.8 312°.10 0°.4/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.43	+24 13.2	1.696	2.474	17.0	19.0
12 13	7 56.77	+23 51.7	1.597	2.461	13.7	18.8
12 23	7 49.97	+23 31.6	1.520	2.448	9.6	18.5
1 2	7 40.58	+23 10.6	1.466	2.436	5.0	18.2
1 12	7 29.68	+22 46.4	1.440	2.424	0.4	17.8
1 22	7 18.68	+22 17.8	1.443	2.412	5.3	18.1
2 1	7 9.06	+21 45.3	1.472	2.400	10.1	18.4
2 11	7 1.99	+21 10.6	1.526	2.389	14.4	18.6

346823 2009 CD_{64} 1 11.8 311°.14 4°.3/10.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.70	+33 43.6	2.322	3.088	13.3	21.2
12 13	7 54.70	+34 20.0	2.229	3.081	10.8	21.0
12 23	7 48.12	+34 54.6	2.158	3.075	8.0	20.8
1 2	7 39.48	+35 22.3	2.114	3.068	5.3	20.6
1 12	7 29.70	+35 38.4	2.098	3.062	4.4	20.5
1 22	7 19.87	+35 40.1	2.111	3.056	6.2	20.6
2 1	7 11.14	+35 27.0	2.152	3.050	9.1	20.8
2 11	7 4.47	+35 1.1	2.218	3.044	11.9	21.0

28650 2000 GE_8 1 11.8 177°.77 4°.2/13.7 18 A

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 54.81	+ 7 41.3	2.528	3.248	13.5	18.7
12 13	7 50.94	+ 7 23.9	2.431	3.249	11.2	18.5
12 23	7 45.15	+ 7 17.7	2.357	3.249	8.6	18.3
1 2	7 37.85	+ 7 23.6	2.308	3.250	5.9	18.1
1 12	7 29.73	+ 7 41.3	2.287	3.250	4.2	18.0
1 22	7 21.56	+ 8 9.3	2.297	3.250	5.1	18.1
2 1	7 14.15	+ 8 45.3	2.335	3.249	7.6	18.2
2 11	7 8.21	+ 9 26.2	2.400	3.249	10.3	18.4

201271 2002 RA_{201} 1 11.8 106°.36 5°.7/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.40	+ 2 9.6	2.356	3.059	14.8	20.3
12 13	7 50.72	+ 1 59.7	2.268	3.066	12.5	20.2
12 23	7 45.04	+ 2 5.7	2.200	3.073	10.0	20.0
1 2	7 37.81	+ 2 29.4	2.156	3.080	7.4	19.8
1 12	7 29.74	+ 3 10.1	2.139	3.087	5.8	19.8
1 22	7 21.64	+ 4 5.8	2.152	3.094	6.3	19.8
2 1	7 14.37	+ 5 12.5	2.193	3.101	8.4	19.9
2 11	7 8.65	+ 6 25.6	2.261	3.107	11.0	20.1

399218 2014 GF_{41} 1 11.8 140°.43 3°.8/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 6.85	+30 7.6	1.891	2.654	16.0	21.9
12 13	8 1.49	+30 47.6	1.813	2.666	12.8	21.7
12 23	7 52.98	+31 28.1	1.757	2.677	9.2	21.5
1 2	7 41.97	+32 2.9	1.727	2.688	5.5	21.3
1 12	7 29.67	+32 25.9	1.726	2.698	3.9	21.2
1 22	7 17.49	+32 33.7	1.754	2.708	6.4	21.4
2 1	7 6.86	+32 26.1	1.810	2.716	10.0	21.6
2 11	6 58.88	+32 5.8	1.892	2.724	13.4	21.8

447035 2004 RR_{14} 1 11.8 87°.76 0°.7/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.91	+19 13.3	1.614	2.379	18.2	21.8
12 13	7 59.86	+19 17.0	1.551	2.406	14.5	21.6
12 23	7 51.73	+19 29.1	1.508	2.432	10.1	21.4
1 2	7 41.26	+19 46.5	1.490	2.458	5.2	21.1
1 12	7 29.70	+20 5.8	1.500	2.483	0.7	20.9
1 22	7 18.47	+20 23.7	1.539	2.507	5.0	21.3
2 1	7 8.91	+20 38.2	1.605	2.531	9.6	21.6
2 11	7 2.00	+20 48.7	1.697	2.555	13.4	21.9

246221 2007 RR_{194} 1 11.8 175°.07 1°.0/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.62	+22 53.3	2.055	2.814	15.1	22.3
12 13	7 57.82	+23 16.7	1.964	2.817	12.0	22.1
12 23	7 50.31	+23 45.5	1.895	2.819	8.4	21.9
1 2	7 40.62	+24 16.0	1.852	2.820	4.3	21.7
1 12	7 29.71	+24 44.2	1.839	2.821	1.0	21.4
1 22	7 18.76	+25 6.6	1.856	2.822	4.7	21.7
2 1	7 8.97	+25 21.4	1.902	2.821	8.8	21.9
2 11	7 1.35	+25 28.5	1.974	2.820	12.4	22.2

57475 2001 SO_{132} 1 11.8 338°.39 3°.9/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.69	+13 46.0	1.331	2.116	20.5	19.2
12 13	7 54.39	+13 20.5	1.248	2.111	16.8	18.9
12 23	7 48.66	+13 8.7	1.182	2.105	12.3	18.6
1 2	7 40.04	+13 11.5	1.138	2.101	7.4	18.3
1 12	7 29.72	+13 28.0	1.119	2.097	3.9	18.1
1 22	7 19.26	+13 55.1	1.125	2.093	6.7	18.3
2 1	7 10.32	+14 29.0	1.157	2.090	11.6	18.5
2 11	7 4.22	+15 5.4	1.210	2.088	16.3	18.8

462280 2008 FS 1 11.8 228°.57 1°.7/12.5 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.40	+15 30.8	2.288	3.032	14.1	22.4
12 13	7 54.22	+15 35.8	2.180	3.022	11.4	22.2
12 23	7 47.70	+15 49.6	2.094	3.010	8.2	22.0
1 2	7 39.29	+16 11.2	2.035	2.998	4.6	21.7
1 12	7 29.74	+16 38.7	2.005	2.986	1.7	21.5
1 22	7 20.01	+17 9.5	2.005	2.973	4.3	21.7
2 1	7 11.12	+17 41.0	2.036	2.959	8.0	21.9
2 11	7 3.97	+18 11.1	2.092	2.945	11.5	22.1

218898 2007 DU_{102} 1 11.8 295°.94 19°.9/ 3.1 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 15.80	+53 30.5	1.112	1.886	24.4	19.6
12 13	8 15.24	+56 34.6	1.058	1.877	22.3	19.5
12 23	8 7.14	+59 25.6	1.019	1.869	20.7	19.3
1 2	7 51.14	+61 39.7	0.998	1.860	19.9	19.2
1 12	7 29.52	+62 53.7	0.995	1.852	20.4	19.2
1 22	7 7.23	+62 56.1	1.008	1.844	22.0	19.3
2 1	6 49.82	+61 52.2	1.038	1.836	24.1	19.4
2 11	6 40.49	+60 0.4	1.080	1.829	26.4	19.6

76366 2000 EY_{173} 1 11.8 29°.15 2°.9/10.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.64	+23 1.9	1.643	2.426	17.3	18.8
12 13	7 55.54	+24 24.7	1.562	2.429	13.8	18.6
12 23	7 49.27	+25 58.7	1.501	2.432	9.6	18.3
1 2	7 40.31	+27 37.3	1.467	2.435	5.2	18.1
1 12	7 29.74	+29 11.4	1.460	2.438	3.0	18.0
1 22	7 18.99	+30 32.8	1.482	2.442	6.5	18.2
2 1	7 9.59	+31 36.7	1.531	2.446	10.8	18.4
2 11	7 2.78	+32 22.1	1.604	2.450	14.7	18.7

32313 Zhangmichael 1 11.8 158°.38 0°.5/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 55.66	+19 9.6	2.753	3.501	11.9	20.2
12 13	7 51.51	+19 17.7	2.659	3.505	9.5	20.1
12 23	7 45.48	+19 31.0	2.588	3.508	6.6	19.9
1 2	7 38.02	+19 48.0	2.545	3.511	3.4	19.7
1 12	7 29.79	+20 6.5	2.531	3.514	0.5	19.4
1 22	7 21.54	+20 24.8	2.549	3.517	3.4	19.7
2 1	7 14.06	+20 41.4	2.597	3.520	6.6	19.9
2 11	7 8.03	+20 55.2	2.673	3.522	9.4	20.1

265889 2006 AK_{57} 1 11.8 185°.91 0°.5/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.22	+20 39.1	2.219	2.976	14.1	20.8
12 13	7 54.83	+20 30.8	2.125	2.976	11.3	20.6
12 23	7 48.06	+20 26.8	2.053	2.975	7.9	20.4
1 2	7 39.42	+20 25.6	2.007	2.975	4.1	20.2
1 12	7 29.77	+20 25.3	1.991	2.974	0.5	19.9
1 22	7 20.11	+20 24.1	2.005	2.973	4.1	20.1
2 1	7 11.49	+20 21.3	2.048	2.972	7.9	20.4
2 11	7 4.75	+20 16.4	2.118	2.971	11.3	20.6

242097 2002 US_{16} 1 11.8 89°.39 2°.1/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 2.11	+23 4.7	1.853	2.619	16.2	20.4
12 13	7 57.59	+24 9.3	1.784	2.642	12.8	20.2
12 23	7 50.21	+25 21.2	1.737	2.664	8.8	20.0
1 2	7 40.57	+26 34.5	1.717	2.685	4.6	19.8
1 12	7 29.75	+27 42.6	1.726	2.707	2.1	19.7
1 22	7 19.03	+28 39.9	1.765	2.727	5.4	20.0
2 1	7 9.69	+29 23.6	1.833	2.748	9.3	20.2
2 11	7 2.72	+29 53.6	1.926	2.768	12.8	20.5

415443 2013 SQ_{62} 1 11.8 71°.54 1°.2/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.97	+23 25.3	2.063	2.831	14.7	21.2
12 13	7 54.05	+23 50.0	1.981	2.840	11.7	21.0
12 23	7 47.62	+24 19.5	1.922	2.849	8.1	20.8
1 2	7 39.22	+24 50.3	1.890	2.858	4.1	20.5
1 12	7 29.77	+25 18.5	1.886	2.868	1.2	20.3
1 22	7 20.37	+25 40.9	1.911	2.877	4.6	20.6
2 1	7 12.12	+25 55.8	1.965	2.886	8.4	20.8
2 11	7 5.91	+26 3.2	2.044	2.896	11.8	21.1

105680 2000 SP_{46} 1 11.8 144°.78 5°.1/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.03	+ 6 14.4	2.396	3.106	14.4	19.7
12 13	7 53.50	+ 5 39.8	2.308	3.116	12.0	19.5
12 23	7 46.92	+ 5 17.0	2.241	3.125	9.3	19.3
1 2	7 38.77	+ 5 7.5	2.200	3.134	6.7	19.2
1 12	7 29.78	+ 5 11.8	2.187	3.142	5.1	19.1
1 22	7 20.82	+ 5 28.7	2.204	3.150	5.9	19.2
2 1	7 12.73	+ 5 56.1	2.250	3.157	8.3	19.3
2 11	7 6.26	+ 6 30.9	2.323	3.164	10.9	19.5

463465 2013 PA_{29} 1 11.8 120°.76 1°.7/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.76	+26 42.7	2.327	3.083	13.6	22.0
12 13	7 56.67	+26 53.9	2.246	3.097	10.8	21.8
12 23	7 49.21	+27 6.0	2.187	3.110	7.5	21.6
1 2	7 39.94	+27 15.9	2.156	3.123	4.0	21.4
1 12	7 29.77	+27 20.3	2.155	3.135	1.7	21.3
1 22	7 19.74	+27 17.5	2.184	3.147	4.4	21.5
2 1	7 10.87	+27 7.2	2.243	3.159	7.8	21.7
2 11	7 3.94	+26 50.5	2.329	3.170	10.9	21.9

48841 1998 BB_{19} 1 11.8 105°.98 3°.7/10.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.59	+32 57.2	2.578	3.334	12.4	19.1
12 13	7 55.68	+33 33.4	2.502	3.349	9.9	19.0
12 23	7 48.49	+34 7.5	2.449	3.364	7.2	18.8
1 2	7 39.57	+34 35.2	2.423	3.378	4.7	18.7
1 12	7 29.78	+34 52.6	2.427	3.393	3.8	18.6
1 22	7 20.10	+34 57.4	2.462	3.407	5.4	18.8
2 1	7 11.52	+34 49.5	2.525	3.421	8.0	18.9
2 11	7 4.80	+34 30.8	2.614	3.434	10.5	19.1

166798 2002 VK_{55} 1 11.8 30°.59 3°.1/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.94	+11 41.4	1.950	2.705	15.9	19.9
12 13	7 50.85	+11 41.2	1.870	2.714	12.9	19.7
12 23	7 45.40	+11 53.7	1.810	2.723	9.4	19.5
1 2	7 38.09	+12 18.7	1.775	2.733	5.8	19.3
1 12	7 29.80	+12 54.2	1.767	2.743	3.2	19.1
1 22	7 21.54	+13 37.1	1.788	2.754	4.9	19.3
2 1	7 14.33	+14 23.8	1.837	2.765	8.5	19.5
2 11	7 9.01	+15 10.8	1.912	2.776	11.9	19.7

27037 1998 RB_{55} 1 11.9 313°.17 3°.3/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.61	+16 0.6	1.360	2.145	20.1	18.0
12 13	7 55.96	+15 25.2	1.271	2.136	16.5	17.8
12 23	7 49.81	+14 59.5	1.201	2.126	12.0	17.5
1 2	7 40.68	+14 44.3	1.152	2.117	7.0	17.2
1 12	7 29.77	+14 39.0	1.129	2.108	3.3	16.9
1 22	7 18.67	+14 42.0	1.132	2.100	6.5	17.1
2 1	7 9.09	+14 51.1	1.159	2.092	11.7	17.3
2 11	7 2.40	+15 4.0	1.210	2.084	16.5	17.6

322148 2010 WM_{25} 1 11.9 22°.09 0°.8/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 58.63	+22 45.4	1.744	2.522	16.6	21.2
12 13	7 55.13	+22 59.3	1.660	2.524	13.3	21.0
12 23	7 48.69	+23 19.0	1.597	2.526	9.2	20.7
1 2	7 39.89	+23 41.1	1.558	2.528	4.7	20.5
1 12	7 29.79	+24 1.5	1.547	2.530	0.9	20.2
1 22	7 19.69	+24 16.9	1.565	2.533	5.1	20.5
2 1	7 10.93	+24 25.6	1.610	2.536	9.5	20.8
2 11	7 4.56	+24 27.5	1.679	2.539	13.5	21.0

123666 2000 YX_{79} 1 11.9 50°.58 2°.4/12.4 18

12 3	7 59.30	+16 51.8	1.749	2.515	17.0	19.2
12 13	7 55.26	+16 19.8	1.677	2.530	13.7	19.0
12 23	7 48.50	+15 55.5	1.625	2.546	9.8	18.8
1 2	7 39.66	+15 38.7	1.598	2.562	5.5	18.6
1 12	7 29.80	+15 28.4	1.599	2.578	2.4	18.4
1 22	7 20.15	+15 23.3	1.628	2.595	5.1	18.7
2 1	7 11.87	+15 22.3	1.685	2.612	9.1	18.9
2 11	7 5.85	+15 23.9	1.766	2.629	12.8	19.2

166196 2002 EY_{96} 1 11.9 299°.98 1°.6/12.3 18

12 3	7 57.29	+17 1.8	1.524	2.305	18.5	20.8
12 13	7 54.66	+17 1.9	1.427	2.290	15.0	20.5
12 23	7 48.80	+17 13.4	1.349	2.276	10.8	20.2
1 2	7 40.16	+17 35.3	1.294	2.262	5.9	19.9
1 12	7 29.79	+18 4.6	1.266	2.248	1.6	19.6
1 22	7 19.12	+18 37.4	1.264	2.234	5.6	19.8
2 1	7 9.72	+19 9.9	1.289	2.221	10.8	20.1
2 11	7 2.94	+19 39.4	1.337	2.208	15.5	20.3

111301 2001 XC_{57} 1 11.9 27°.16 4°.7/13.6 18

12 3	7 54.24	+ 9 46.4	1.135	1.929	22.8	18.2
12 13	7 52.36	+ 9 46.0	1.089	1.954	18.5	18.0
12 23	7 47.01	+10 8.1	1.060	1.982	13.6	17.8
1 2	7 39.02	+10 52.2	1.051	2.011	8.4	17.6
1 12	7 29.81	+11 53.7	1.066	2.042	4.8	17.5
1 22	7 21.00	+13 5.6	1.106	2.073	6.7	17.7
2 1	7 14.06	+14 20.2	1.170	2.106	11.2	18.1
2 11	7 10.00	+15 31.1	1.256	2.140	15.4	18.4

245027 2004 EQ_{13} 1 11.9 287°.96 0°.8/12.2 18

12 3	7 54.68	+17 44.2	2.347	3.104	13.4	21.1
12 13	7 51.24	+18 0.0	2.243	3.093	10.8	20.9
12 23	7 45.63	+18 23.7	2.161	3.083	7.6	20.7
1 2	7 38.25	+18 53.7	2.106	3.073	4.0	20.4
1 12	7 29.83	+19 27.5	2.080	3.063	0.8	20.1
1 22	7 21.27	+20 2.1	2.084	3.053	3.9	20.4
2 1	7 13.52	+20 35.1	2.117	3.043	7.6	20.6
2 11	7 7.41	+21 4.5	2.176	3.033	11.0	20.8

285571 2000 PQ_{9} 1 11.9 145°.52 0°.9/11.7 18

12 3	8 16.12	+24 21.9	1.858	2.598	17.1	22.4
12 13	8 8.53	+24 22.7	1.777	2.618	13.6	22.2
12 23	7 57.69	+24 25.8	1.718	2.637	9.5	22.0
1 2	7 44.34	+24 27.2	1.687	2.653	4.9	21.8
1 12	7 29.75	+24 22.8	1.686	2.668	1.0	21.5
1 22	7 15.46	+24 10.9	1.716	2.682	5.1	21.8
2 1	7 2.92	+23 51.8	1.778	2.693	9.5	22.1
2 11	6 53.20	+23 27.7	1.866	2.703	13.4	22.4

521133 2015 EG_{75} 1 11.9 254°.58 0°.5/11.6 17

12 3	7 55.97	+22 13.2	2.519	3.277	12.6	21.9
12 13	7 52.10	+22 28.2	2.417	3.270	10.0	21.7
12 23	7 46.12	+22 47.5	2.339	3.263	7.0	21.5
1 2	7 38.46	+23 8.9	2.287	3.256	3.6	21.3
1 12	7 29.84	+23 29.7	2.266	3.249	0.5	21.0
1 22	7 21.14	+23 47.5	2.274	3.241	3.8	21.3
2 1	7 13.26	+24 0.7	2.313	3.234	7.3	21.5
2 11	7 6.99	+24 8.8	2.377	3.227	10.4	21.7

239657 2008 WL_{124} 1 11.9 21°.91 2°.9/10.5 18

12 3	7 56.07	+25 40.2	1.855	2.637	15.6	19.8
12 13	7 53.06	+26 41.6	1.776	2.643	12.4	19.6
12 23	7 47.24	+27 49.0	1.720	2.649	8.7	19.4
1 2	7 39.17	+28 56.5	1.689	2.656	4.8	19.2
1 12	7 29.83	+29 57.8	1.686	2.663	3.0	19.1
1 22	7 20.45	+30 47.6	1.712	2.671	5.9	19.3
2 1	7 12.30	+31 23.0	1.765	2.680	9.7	19.5
2 11	7 6.41	+31 44.2	1.842	2.689	13.1	19.7

330819 2008 WA_{22} 1 11.9 140°.86 6°.0/13.8 18

12 3	7 56.37	+ 5 4.6	2.346	3.058	14.6	21.2
12 13	7 52.30	+ 4 8.7	2.255	3.060	12.4	21.0
12 23	7 46.18	+ 3 24.1	2.184	3.062	9.8	20.9
1 2	7 38.45	+ 2 53.4	2.139	3.065	7.4	20.7
1 12	7 29.85	+ 2 38.1	2.121	3.067	6.0	20.6
1 22	7 21.23	+ 2 38.1	2.132	3.069	6.7	20.7
2 1	7 13.46	+ 2 51.8	2.171	3.071	8.9	20.8
2 11	7 7.30	+ 3 16.3	2.236	3.073	11.4	21.0

37154 2000 VZ_{58} 1 11.9 225°.96 3°.1/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 1.55	+25 9.4	1.870	2.640	15.9	18.4
12 13	7 57.65	+26 20.8	1.774	2.633	12.8	18.2
12 23	7 50.68	+27 40.8	1.700	2.626	9.0	18.0
1 2	7 41.07	+29 3.1	1.652	2.618	5.1	17.7
1 12	7 29.81	+30 20.1	1.633	2.609	3.2	17.6
1 22	7 18.22	+31 24.7	1.643	2.600	6.3	17.7
2 1	7 7.78	+32 13.0	1.682	2.591	10.4	18.0
2 11	6 59.75	+32 44.7	1.745	2.582	14.2	18.2

205336 2000 UJ_{101} 1 11.9 37°.31 1°.7/12.2 18

12 3	8 0.51	+19 8.1	1.444	2.227	19.2	19.7
12 13	7 57.02	+18 41.1	1.368	2.232	15.5	19.5
12 23	7 50.20	+18 21.4	1.311	2.239	11.0	19.2
1 2	7 40.71	+18 8.0	1.278	2.246	5.9	19.0
1 12	7 29.82	+17 59.0	1.271	2.253	1.7	18.7
1 22	7 19.06	+17 52.9	1.290	2.260	5.6	19.0
2 1	7 9.94	+17 48.4	1.337	2.268	10.6	19.3
2 11	7 3.62	+17 44.7	1.406	2.276	15.0	19.6

294275 2007 UJ_{103} 1 11.9 201°.96 1°.2/11.4 18

12 3	7 56.62	+24 10.7	2.488	3.248	12.7	21.5
12 13	7 52.62	+24 31.1	2.393	3.247	10.1	21.3
12 23	7 46.47	+24 54.8	2.322	3.246	7.0	21.1
1 2	7 38.63	+25 19.0	2.277	3.245	3.6	20.9
1 12	7 29.85	+25 40.8	2.262	3.244	1.2	20.7
1 22	7 21.03	+25 57.5	2.278	3.243	4.1	20.9
2 1	7 13.10	+26 7.9	2.323	3.242	7.4	21.1
2 11	7 6.84	+26 11.7	2.395	3.241	10.5	21.3

146140 2000 SE_{48} 1 11.9 141°.39 1°.2/11.5 18

12 3	8 3.19	+25 56.1	2.230	2.985	14.1	20.2
12 13	7 57.93	+25 52.1	2.143	2.993	11.2	20.0
12 23	7 50.16	+25 48.8	2.078	3.001	7.8	19.8
1 2	7 40.48	+25 43.4	2.041	3.008	4.1	19.6
1 12	7 29.83	+25 33.5	2.033	3.015	1.2	19.4
1 22	7 19.31	+25 17.5	2.056	3.022	4.4	19.7
2 1	7 9.99	+24 55.7	2.109	3.028	8.1	19.9
2 11	7 2.73	+24 29.4	2.189	3.034	11.3	20.1

240825 2006 BZ_{16} 1 11.9 293°.85 0°.5/11.7 18

12 3	7 58.24	+20 37.5	1.494	2.281	18.5	20.6
12 13	7 55.73	+21 0.9	1.392	2.261	15.0	20.3
12 23	7 49.78	+21 35.3	1.310	2.241	10.6	20.0
1 2	7 40.80	+22 17.5	1.251	2.222	5.5	19.7
1 12	7 29.84	+23 2.2	1.219	2.202	0.6	19.3
1 22	7 18.41	+23 43.6	1.213	2.182	6.0	19.6
2 1	7 8.27	+24 17.5	1.233	2.163	11.4	19.8
2 11	7 0.91	+24 42.0	1.276	2.144	16.3	20.1

142860 2002 VJ_{28} 1 11.9 102°.80 0°.4/12.0 18

12 3	8 1.53	+19 27.8	1.957	2.715	15.7	20.8
12 13	7 56.82	+19 36.8	1.883	2.734	12.5	20.6
12 23	7 49.49	+19 52.9	1.830	2.753	8.7	20.4
1 2	7 40.18	+20 13.4	1.803	2.771	4.5	20.2
1 12	7 29.86	+20 35.3	1.805	2.788	0.4	19.9
1 22	7 19.69	+20 55.8	1.837	2.806	4.4	20.2
2 1	7 10.80	+21 12.8	1.898	2.822	8.4	20.5
2 11	7 4.07	+21 25.7	1.985	2.839	12.0	20.8

196405 2003 GX_{37} 1 11.9 226°.44 3°.0/10.8 18

12 3	8 2.69	+26 29.4	1.763	2.536	16.6	20.8
12 13	7 58.69	+27 13.2	1.669	2.529	13.4	20.6
12 23	7 51.45	+28 2.4	1.596	2.522	9.5	20.3
1 2	7 41.47	+28 51.3	1.548	2.514	5.3	20.1
1 12	7 29.84	+29 33.2	1.528	2.506	3.0	19.9
1 22	7 18.00	+30 2.9	1.537	2.497	6.3	20.1
2 1	7 7.48	+30 18.1	1.573	2.488	10.6	20.3
2 11	6 59.59	+30 19.7	1.634	2.479	14.5	20.6

251195 2006 UH_{119} 1 11.9 283°.78 1°.9/12.5 18

12 3	7 57.83	+16 18.8	1.786	2.551	16.7	21.1
12 13	7 54.41	+16 15.4	1.693	2.547	13.5	20.9
12 23	7 48.20	+16 21.9	1.621	2.543	9.7	20.6
1 2	7 39.70	+16 37.3	1.573	2.538	5.4	20.3
1 12	7 29.87	+16 59.5	1.553	2.534	1.9	20.1
1 22	7 19.94	+17 25.2	1.561	2.530	5.0	20.3
2 1	7 11.16	+17 51.9	1.597	2.525	9.4	20.5
2 11	7 4.61	+18 17.1	1.657	2.521	13.4	20.8

56370 2000 EV_{7} 1 11.9 135°.59 4°.4/10.6 18

12 3	8 7.03	+30 49.7	1.729	2.498	17.0	19.1
12 13	8 2.02	+31 32.2	1.653	2.509	13.7	18.9
12 23	7 53.61	+32 14.9	1.598	2.519	9.9	18.7
1 2	7 42.45	+32 50.9	1.568	2.528	6.1	18.5
1 12	7 29.84	+33 13.5	1.566	2.537	4.4	18.4
1 22	7 17.38	+33 18.8	1.592	2.545	7.0	18.6
2 1	7 6.62	+33 6.9	1.646	2.553	10.8	18.8
2 11	6 58.73	+32 41.2	1.724	2.560	14.3	19.0

37391 Ebre 1 11.9 354.°44 4.°7/10.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 49.65	+25 21.3	1.002	1.840	22.1	17.2
12 13	7 50.27	+26 33.1	0.932	1.830	17.8	16.9
12 23	7 46.71	+27 57.5	0.880	1.823	12.6	16.6
1 2	7 39.43	+29 25.7	0.847	1.818	7.2	16.3
1 12	7 29.88	+30 45.9	0.837	1.815	4.8	16.1
1 22	7 20.13	+31 47.0	0.849	1.814	9.0	16.3
2 1	7 12.42	+32 23.5	0.883	1.815	14.6	16.6
2 11	7 8.45	+32 36.1	0.936	1.818	19.5	16.9

489659 2007 UB_{90} 1 11.9 341.°73 8.°5/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 52.43	+ 2 51.4	1.858	2.588	17.4	20.6
12 13	7 49.93	+ 1 33.4	1.764	2.576	15.0	20.4
12 23	7 44.99	+ 0 29.2	1.689	2.565	12.3	20.2
1 2	7 38.04	− 0 16.3	1.636	2.554	9.9	20.0
1 12	7 29.92	− 0 39.8	1.608	2.545	8.5	19.9
1 22	7 21.65	− 0 40.2	1.606	2.536	9.1	20.0
2 1	7 14.34	− 0 19.2	1.629	2.528	11.4	20.1
2 11	7 8.93	+ 0 18.7	1.675	2.521	14.2	20.2

490657 2010 GQ_{66} 1 11.9 225.°45 2.°8/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.71	+27 0.2	1.972	2.736	15.4	22.4
12 13	7 59.18	+27 39.6	1.871	2.726	12.4	22.2
12 23	7 51.63	+28 23.1	1.791	2.714	8.8	21.9
1 2	7 41.53	+29 5.6	1.737	2.703	4.9	21.7
1 12	7 29.87	+29 41.1	1.712	2.690	2.9	21.5
1 22	7 17.97	+30 5.2	1.717	2.677	5.9	21.7
2 1	7 7.24	+30 15.9	1.751	2.663	9.9	21.9
2 11	6 58.89	+30 14.2	1.809	2.648	13.6	22.1

458172 2010 MP_{17} 1 11.9 49.°56 5.°2/10.6 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 6.92	+31 40.5	1.407	2.194	19.5	20.4
12 13	8 2.15	+32 32.3	1.364	2.229	15.5	20.3
12 23	7 53.63	+33 22.1	1.341	2.266	11.1	20.1
1 2	7 42.32	+34 1.6	1.342	2.302	6.9	20.0
1 12	7 29.87	+34 23.5	1.369	2.338	5.3	20.0
1 22	7 18.08	+34 25.0	1.423	2.375	7.7	20.2
2 1	7 8.54	+34 7.7	1.503	2.412	11.5	20.5
2 11	7 2.26	+33 36.6	1.605	2.448	14.9	20.8

384756 2011 QD_{75} 1 11.9 241.°53 1.°3/11.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.95	+26 29.3	2.585	3.341	12.4	21.3
12 13	7 54.36	+26 25.4	2.486	3.337	9.9	21.1
12 23	7 47.61	+26 21.7	2.410	3.333	6.9	20.9
1 2	7 39.21	+26 15.9	2.362	3.329	3.6	20.7
1 12	7 29.91	+26 5.8	2.344	3.325	1.3	20.5
1 22	7 20.64	+25 50.2	2.356	3.321	4.0	20.7
2 1	7 12.29	+25 29.1	2.399	3.317	7.3	20.9
2 11	7 5.64	+25 3.4	2.468	3.312	10.2	21.1

36825 2000 SL_{87} 1 11.9 171.°26 1.°0/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.63	+17 3.2	2.122	2.869	15.0	20.5
12 13	7 56.88	+17 20.5	2.029	2.873	12.1	20.3
12 23	7 49.62	+17 47.0	1.959	2.877	8.5	20.0
1 2	7 40.33	+18 20.5	1.914	2.880	4.5	19.8
1 12	7 29.90	+18 57.8	1.899	2.882	1.0	19.5
1 22	7 19.41	+19 35.4	1.915	2.883	4.3	19.8
2 1	7 9.96	+20 10.7	1.961	2.884	8.3	20.0
2 11	7 2.49	+20 41.6	2.033	2.884	11.9	20.3

412203 2013 GH_{106} 1 11.9 239.°63 1.°5/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 1.36	+24 7.9	1.947	2.714	15.5	22.3
12 13	7 57.24	+24 32.0	1.845	2.703	12.5	22.0
12 23	7 50.23	+25 1.3	1.765	2.691	8.7	21.8
1 2	7 40.79	+25 31.9	1.711	2.679	4.6	21.5
1 12	7 29.89	+25 59.4	1.685	2.666	1.5	21.3
1 22	7 18.78	+26 19.7	1.688	2.653	5.2	21.5
2 1	7 8.80	+26 31.0	1.720	2.640	9.5	21.7
2 11	7 1.09	+26 33.4	1.777	2.626	13.4	21.9

447335 2005 YR_{49} 1 11.9 334.°73 9.°5/ 9.2 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.30	+21 9.2	0.942	1.764	24.4	18.6
12 13	7 59.31	+17 53.4	0.841	1.727	20.5	18.2
12 23	7 53.53	+14 7.2	0.758	1.691	15.8	17.8
1 2	7 43.25	+ 9 55.6	0.696	1.657	11.0	17.4
1 12	7 29.86	+ 5 33.6	0.659	1.626	9.7	17.2
1 22	7 15.64	+ 1 25.2	0.645	1.598	14.1	17.3
2 1	7 3.28	− 2 5.9	0.654	1.572	20.4	17.5
2 11	6 55.02	− 4 47.7	0.681	1.550	26.3	17.7

37517 2134 T-3 1 11.9 10.°43 4.°2/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.61	+30 44.0	1.431	2.230	18.6	17.9
12 13	7 55.97	+31 4.2	1.359	2.232	15.0	17.6
12 23	7 49.71	+31 23.4	1.306	2.236	10.7	17.4
1 2	7 40.56	+31 35.5	1.276	2.241	6.4	17.2
1 12	7 29.90	+31 34.7	1.272	2.247	4.3	17.1
1 22	7 19.43	+31 18.1	1.294	2.255	7.2	17.3
2 1	7 10.80	+30 46.6	1.341	2.263	11.5	17.5
2 11	7 5.20	+30 3.9	1.411	2.272	15.5	17.8

320711 2008 DP_{48} 1 11.9 149.°07 2.°1/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 2.96	+26 59.5	2.177	2.935	14.3	21.5
12 13	7 57.94	+27 20.8	2.091	2.943	11.4	21.3
12 23	7 50.31	+27 43.7	2.028	2.951	8.0	21.1
1 2	7 40.65	+28 4.2	1.992	2.958	4.3	20.9
1 12	7 29.91	+28 18.4	1.986	2.965	2.2	20.8
1 22	7 19.24	+28 23.7	2.009	2.971	4.9	21.0
2 1	7 9.77	+28 19.4	2.062	2.976	8.5	21.2
2 11	7 2.42	+28 6.8	2.141	2.982	11.8	21.4

397802 2008 QU_{21} 1 11.9 147.°13 0.°2/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 5.29	+21 23.6	1.769	2.530	17.0	21.3
12 13	8 0.24	+21 18.0	1.686	2.539	13.6	21.0
12 23	7 52.16	+21 17.5	1.624	2.547	9.5	20.8
1 2	7 41.66	+21 19.7	1.587	2.555	4.9	20.6
1 12	7 29.90	+21 21.6	1.579	2.562	0.2	20.2
1 22	7 18.24	+21 20.9	1.600	2.568	4.9	20.6
2 1	7 8.04	+21 16.7	1.650	2.574	9.5	20.9
2 11	7 0.36	+21 9.4	1.725	2.579	13.4	21.1

81670 2000 HX_{102} 1 11.9 237.°00 6.°9/ 9.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 5.16	+38 18.8	2.096	2.855	14.8	20.2
12 13	8 0.61	+39 28.8	2.003	2.844	12.3	20.0
12 23	7 52.79	+40 36.1	1.932	2.834	9.6	19.8
1 2	7 42.18	+41 32.6	1.886	2.822	7.5	19.7
1 12	7 29.89	+42 10.4	1.868	2.811	7.0	19.6
1 22	7 17.39	+42 24.9	1.878	2.799	8.7	19.7
2 1	7 6.25	+42 15.4	1.915	2.787	11.4	19.8
2 11	6 57.75	+41 45.6	1.975	2.774	14.2	20.0

247043 2000 GS_{11} 1 11.9 123.°99 13.°2/ 7.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 23.59	+58 1.6	2.040	2.735	17.0	19.7
12 13	8 17.18	+59 39.7	1.986	2.744	15.5	19.6
12 23	8 5.30	+61 1.1	1.950	2.752	14.1	19.6
1 2	7 48.77	+61 53.1	1.936	2.760	13.3	19.5
1 12	7 29.82	+62 5.7	1.944	2.768	13.3	19.5
1 22	7 11.42	+61 35.9	1.974	2.776	14.0	19.6
2 1	6 56.33	+60 28.2	2.026	2.783	15.3	19.7
2 11	6 46.19	+58 52.8	2.097	2.790	16.7	19.8

266986 2010 XQ_{17} 1 11.9 39.°64 0.°8/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.16	+18 6.0	1.789	2.560	16.5	21.0
12 13	7 53.82	+18 20.0	1.706	2.565	13.2	20.8
12 23	7 47.72	+18 43.4	1.644	2.570	9.3	20.5
1 2	7 39.44	+19 14.3	1.607	2.575	4.9	20.3
1 12	7 29.94	+19 48.9	1.597	2.580	0.8	20.0
1 22	7 20.44	+20 23.6	1.616	2.586	4.7	20.3
2 1	7 12.15	+20 55.3	1.663	2.592	9.1	20.6
2 11	7 6.09	+21 22.1	1.735	2.598	12.9	20.8

319661 2006 TP_{32} 1 11.9 9.°78 0.°1/11.8 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.92	+20 47.6	1.386	2.184	19.2	21.4
12 13	7 53.70	+20 56.4	1.311	2.185	15.4	21.1
12 23	7 48.11	+21 14.2	1.254	2.188	10.7	20.9
1 2	7 39.78	+21 37.8	1.221	2.191	5.5	20.6
1 12	7 29.94	+22 2.9	1.213	2.196	0.1	20.2
1 22	7 20.12	+22 25.4	1.231	2.201	5.6	20.6
2 1	7 11.91	+22 42.3	1.274	2.208	10.8	20.9
2 11	7 6.49	+22 52.8	1.340	2.215	15.2	21.2

261946 2006 OF_{19} 1 11.9 82.°83 3.°4/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.99	+28 19.3	1.752	2.523	16.8	20.7
12 13	8 0.06	+29 4.7	1.690	2.549	13.3	20.5
12 23	7 51.99	+29 51.8	1.650	2.574	9.4	20.4
1 2	7 41.53	+30 34.4	1.634	2.599	5.4	20.2
1 12	7 29.92	+31 6.3	1.648	2.623	3.5	20.1
1 22	7 18.59	+31 24.0	1.690	2.647	6.2	20.3
2 1	7 8.93	+31 27.0	1.759	2.671	9.9	20.6
2 11	7 1.92	+31 17.5	1.854	2.694	13.3	20.9

87896 2000 SE_{300} 1 11.9 142.°83 0.°5/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.18	+22 28.0	2.255	3.011	13.9	20.5
12 13	7 55.57	+22 38.5	2.167	3.019	11.1	20.3
12 23	7 48.59	+22 53.2	2.103	3.026	7.7	20.1
1 2	7 39.76	+23 9.4	2.065	3.033	3.9	19.8
1 12	7 29.95	+23 24.2	2.057	3.040	0.5	19.6
1 22	7 20.18	+23 35.3	2.079	3.046	4.1	19.9
2 1	7 11.48	+23 41.5	2.130	3.052	7.8	20.1
2 11	7 4.67	+23 42.5	2.208	3.057	11.1	20.3

375096 2007 RM_{320} 1 11.9 24.°35 2.°8/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.98	+27 25.1	2.005	2.781	14.8	20.7
12 13	7 53.54	+28 2.9	1.924	2.786	11.8	20.5
12 23	7 47.46	+28 43.3	1.865	2.792	8.3	20.3
1 2	7 39.28	+29 21.7	1.832	2.797	4.7	20.1
1 12	7 29.96	+29 53.3	1.827	2.804	2.8	19.9
1 22	7 20.66	+30 14.5	1.850	2.810	5.5	20.1
2 1	7 12.55	+30 24.0	1.902	2.817	9.0	20.4
2 11	7 6.58	+30 22.5	1.978	2.824	12.3	20.6

81785 2000 JS_{77} 1 11.9 115°.32 3°.4/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.55	+14 22.8	1.851	2.605	16.6	19.3
12 13	7 55.53	+13 43.3	1.761	2.606	13.6	19.1
12 23	7 48.82	+13 11.9	1.693	2.607	9.9	18.9
1 2	7 39.98	+12 49.6	1.649	2.608	6.0	18.6
1 12	7 29.97	+12 36.2	1.633	2.608	3.5	18.5
1 22	7 19.96	+12 31.1	1.645	2.609	5.5	18.6
2 1	7 11.13	+12 32.8	1.686	2.610	9.4	18.8
2 11	7 4.45	+12 39.5	1.752	2.610	13.0	19.1

147585 2004 FX_{134} 1 11.9 233°.11 1°.6/11.5 18

12 3	8 4.92	+25 9.6	1.741	2.510	17.0	20.6
12 13	8 0.47	+25 19.8	1.642	2.499	13.7	20.4
12 23	7 52.71	+25 33.7	1.562	2.488	9.7	20.1
1 2	7 42.17	+25 47.1	1.508	2.476	5.1	19.8
1 12	7 29.95	+25 55.3	1.482	2.464	1.6	19.5
1 22	7 17.53	+25 55.0	1.485	2.450	5.7	19.8
2 1	7 6.48	+25 45.2	1.515	2.437	10.4	20.0
2 11	6 58.09	+25 27.4	1.570	2.422	14.7	20.2

27196 1999 CF_{64} 1 11.9 196°.97 5°.3/14.6 18

12 3	7 54.02	+ 3 21.0	2.443	3.149	14.2	18.5
12 13	7 50.48	+ 3 10.3	2.346	3.149	12.0	18.4
12 23	7 44.97	+ 3 14.3	2.270	3.148	9.5	18.2
1 2	7 37.93	+ 3 34.6	2.219	3.147	7.0	18.0
1 12	7 30.01	+ 4 10.7	2.195	3.146	5.4	17.9
1 22	7 22.02	+ 5 0.8	2.200	3.145	6.0	18.0
2 1	7 14.77	+ 6 1.5	2.235	3.144	8.2	18.1
2 11	7 9.01	+ 7 8.5	2.295	3.143	10.8	18.3

418862 2008 WM_{109} 1 11.9 69°.25 2°.5/12.7 18

12 3	7 57.58	+15 13.8	2.155	2.904	14.7	21.0
12 13	7 53.45	+14 49.1	2.073	2.916	11.9	20.8
12 23	7 47.07	+14 31.9	2.014	2.929	8.5	20.6
1 2	7 38.97	+14 22.2	1.980	2.941	5.0	20.4
1 12	7 30.00	+14 19.1	1.975	2.953	2.5	20.3
1 22	7 21.13	+14 21.3	2.000	2.965	4.5	20.5
2 1	7 13.30	+14 27.5	2.054	2.978	7.9	20.7
2 11	7 7.30	+14 36.0	2.133	2.990	11.1	20.9

150488 2000 QJ_{14} 1 11.9 80°.63 1°.7/12.6 18

12 3	7 58.52	+15 13.2	1.911	2.667	16.1	20.1
12 13	7 54.53	+15 24.2	1.836	2.684	12.9	19.9
12 23	7 48.00	+15 45.9	1.782	2.701	9.2	19.7
1 2	7 39.50	+16 16.8	1.753	2.717	5.1	19.5
1 12	7 30.00	+16 53.8	1.753	2.734	1.8	19.3
1 22	7 20.58	+17 33.4	1.782	2.750	4.5	19.5
2 1	7 12.36	+18 12.3	1.839	2.766	8.5	19.8
2 11	7 6.22	+18 48.2	1.923	2.783	12.0	20.1

4540 Oriani 1 11.9 332°.74 3°.5/12.6 18

12 3	7 55.38	+15 28.2	1.531	2.311	18.4	16.2
12 13	7 53.01	+14 49.1	1.436	2.298	15.1	15.9
12 23	7 47.57	+14 18.7	1.361	2.285	11.0	15.7
1 2	7 39.55	+13 58.1	1.309	2.272	6.6	15.4
1 12	7 29.99	+13 47.2	1.283	2.261	3.5	15.1
1 22	7 20.26	+13 45.0	1.283	2.251	6.1	15.3
2 1	7 11.79	+13 50.1	1.309	2.241	10.7	15.5
2 11	7 5.82	+14 0.0	1.358	2.232	15.1	15.7

196590 2003 QL_{53} 1 11.9 72°.31 0°.3/11.7 18

12 3	7 57.64	+20 57.9	2.047	2.813	14.9	20.0
12 13	7 53.83	+21 19.5	1.965	2.822	11.8	19.8
12 23	7 47.53	+21 47.6	1.905	2.831	8.2	19.6
1 2	7 39.29	+22 19.4	1.871	2.840	4.2	19.4
1 12	7 30.00	+22 51.1	1.866	2.849	0.4	19.1
1 22	7 20.75	+23 19.6	1.890	2.858	4.3	19.4
2 1	7 12.60	+23 42.6	1.943	2.867	8.3	19.7
2 11	7 6.45	+23 59.3	2.021	2.876	11.7	19.9

53305 1999 GQ_{53} 1 11.9 260°.61 2°.7/12.6 18

12 3	7 58.57	+15 12.9	2.023	2.775	15.5	18.4
12 13	7 54.68	+14 46.7	1.920	2.764	12.6	18.2
12 23	7 48.24	+14 28.1	1.838	2.754	9.2	17.9
1 2	7 39.74	+14 17.2	1.782	2.743	5.4	17.7
1 12	7 30.01	+14 13.5	1.754	2.732	2.7	17.5
1 22	7 20.15	+14 15.7	1.755	2.721	5.0	17.6
2 1	7 11.28	+14 22.4	1.785	2.710	8.9	17.8
2 11	7 4.37	+14 31.9	1.841	2.698	12.6	18.0

347116 2010 JY_{79} 1 11.9 228°.91 0°.9/12.4 18

12 3	7 54.68	+16 13.8	2.549	3.297	12.7	21.3
12 13	7 51.04	+16 42.2	2.450	3.295	10.2	21.1
12 23	7 45.40	+17 19.5	2.374	3.293	7.2	20.9
1 2	7 38.19	+18 3.9	2.325	3.290	3.9	20.7
1 12	7 30.06	+18 52.5	2.306	3.288	0.9	20.4
1 22	7 21.83	+19 42.2	2.317	3.286	3.6	20.7
2 1	7 14.35	+20 30.1	2.359	3.284	7.0	20.9
2 11	7 8.36	+21 13.8	2.428	3.281	10.1	21.1

374627 2006 GF_{45} 1 11.9 230°.64 0°.4/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 57.78	+22 2.1	2.239	3.000	13.9	21.6
12 13	7 53.84	+22 14.4	2.143	2.997	11.1	21.4
12 23	7 47.52	+22 31.6	2.069	2.994	7.7	21.2
1 2	7 39.32	+22 51.1	2.022	2.991	3.9	21.0
1 12	7 30.05	+23 10.0	2.004	2.987	0.5	20.7
1 22	7 20.72	+23 25.8	2.016	2.984	4.2	21.0
2 1	7 12.36	+23 36.7	2.057	2.980	8.0	21.2
2 11	7 5.84	+23 42.5	2.124	2.976	11.3	21.4

111434 2001 XQ_{215} 1 11.9 108°.49 1°.8/11.0 18

12 3	7 57.98	+26 14.7	2.751	3.505	11.7	20.4
12 13	7 53.42	+26 49.0	2.672	3.522	9.3	20.3
12 23	7 46.89	+27 25.2	2.617	3.539	6.5	20.1
1 2	7 38.86	+28 0.1	2.590	3.556	3.5	20.0
1 12	7 30.06	+28 30.4	2.593	3.572	1.8	19.9
1 22	7 21.32	+28 53.5	2.627	3.588	4.0	20.0
2 1	7 13.46	+29 8.5	2.692	3.603	6.9	20.2
2 11	7 7.17	+29 15.4	2.783	3.618	9.5	20.4

331456 2012 HK_{24} 1 11.9 137°.70 2°.6/13.2 18

12 3	7 57.18	+11 42.3	2.372	3.106	13.9	21.1
12 13	7 53.00	+11 49.3	2.283	3.115	11.3	21.0
12 23	7 46.74	+12 7.2	2.217	3.124	8.3	20.8
1 2	7 38.84	+12 35.4	2.176	3.132	5.0	20.6
1 12	7 30.07	+13 12.0	2.165	3.140	2.7	20.4
1 22	7 21.28	+13 54.3	2.184	3.148	4.3	20.6
2 1	7 13.37	+14 39.3	2.232	3.155	7.5	20.8
2 11	7 7.08	+15 24.2	2.308	3.162	10.5	21.0

450446 2005 UN_{418} 1 11.9 147°.73 1°.9/11.3 18

12 3	8 4.40	+23 58.4	1.730	2.499	17.1	22.6
12 13	7 59.84	+24 36.3	1.649	2.507	13.6	22.4
12 23	7 52.11	+25 20.5	1.589	2.515	9.5	22.1
1 2	7 41.79	+26 6.1	1.554	2.522	5.0	21.9
1 12	7 30.04	+26 46.9	1.548	2.529	1.9	21.7
1 22	7 18.29	+27 18.2	1.570	2.535	5.6	22.0
2 1	7 8.00	+27 37.9	1.621	2.540	10.0	22.2
2 11	7 0.34	+27 46.4	1.696	2.545	13.9	22.5

135467 2001 VH_{92} 1 11.9 98°.79 6°.9/15.6 18

12 3	7 54.70	− 2 27.9	2.721	3.389	13.7	20.0
12 13	7 50.64	− 3 7.3	2.643	3.407	11.9	19.9
12 23	7 44.86	− 3 31.8	2.586	3.425	9.9	19.8
1 2	7 37.80	− 3 39.0	2.552	3.443	8.1	19.7
1 12	7 30.09	− 3 28.1	2.546	3.460	7.0	19.6
1 22	7 22.43	− 3 0.0	2.567	3.478	7.2	19.7
2 1	7 15.53	− 2 17.2	2.616	3.495	8.5	19.8
2 11	7 9.97	− 1 23.7	2.691	3.511	10.2	19.9

222337 2000 UT_{98} 1 11.9 88°.79 4°.4/13.3 18

12 3	8 0.26	+10 5.6	2.105	2.835	15.6	19.9
12 13	7 55.47	+ 9 26.1	2.033	2.858	12.8	19.8
12 23	7 48.41	+ 8 57.4	1.982	2.881	9.6	19.6
1 2	7 39.65	+ 8 40.5	1.956	2.903	6.4	19.5
1 12	7 30.09	+ 8 35.6	1.959	2.925	4.4	19.4
1 22	7 20.70	+ 8 41.5	1.992	2.947	5.6	19.5
2 1	7 12.44	+ 8 56.2	2.053	2.969	8.5	19.7
2 11	7 6.06	+ 9 16.8	2.141	2.990	11.4	19.9

309516 2007 XZ_{2} 1 11.9 304°.21 1°.0/12.2 18

12 3	7 58.04	+18 54.9	1.643	2.420	17.5	20.8
12 13	7 55.02	+18 49.7	1.547	2.409	14.2	20.6
12 23	7 48.93	+18 52.7	1.471	2.397	10.1	20.3
1 2	7 40.28	+19 2.5	1.418	2.387	5.4	20.0
1 12	7 30.08	+19 16.4	1.393	2.376	1.0	19.7
1 22	7 19.69	+19 31.4	1.395	2.365	5.2	19.9
2 1	7 10.55	+19 45.2	1.425	2.355	10.1	20.2
2 11	7 3.86	+19 56.4	1.478	2.345	14.5	20.4

95896 2003 HH_{13} 1 11.9 114°.78 4°.2/13.3 18

12 3	8 0.78	+10 35.3	1.724	2.470	18.0	20.1
12 13	7 56.61	+10 18.3	1.646	2.483	14.7	19.9
12 23	7 49.63	+10 15.3	1.588	2.495	10.9	19.7
1 2	7 40.45	+10 27.0	1.553	2.507	6.9	19.5
1 12	7 30.09	+10 52.0	1.546	2.519	4.2	19.3
1 22	7 19.79	+11 27.4	1.568	2.530	5.9	19.5
2 1	7 10.80	+12 9.5	1.617	2.541	9.7	19.7
2 11	7 4.10	+12 54.1	1.691	2.551	13.4	19.9

359724 2011 UH_{24} 1 11.9 130°.52 2°.1/12.6 18

12 3	8 3.13	+15 16.2	2.057	2.798	15.6	21.7
12 13	7 57.95	+15 8.4	1.977	2.815	12.6	21.5
12 23	7 50.27	+15 9.4	1.918	2.831	9.0	21.3
1 2	7 40.67	+15 18.3	1.885	2.847	5.1	21.1
1 12	7 30.09	+15 33.1	1.882	2.862	2.1	20.9
1 22	7 19.62	+15 51.6	1.910	2.876	4.6	21.1
2 1	7 10.33	+16 11.7	1.966	2.889	8.3	21.3
2 11	7 3.10	+16 31.6	2.050	2.902	11.7	21.6

28854 Budisteanu 1 11.9 323°.80 1°.0/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 56.12	+19 48.4	1.294	2.095	20.1	17.8
12 13	7 54.49	+20 32.8	1.206	2.083	16.2	17.5
12 23	7 49.20	+21 32.6	1.136	2.071	11.4	17.2
1 2	7 40.67	+22 43.6	1.089	2.060	5.9	16.8
1 12	7 30.08	+23 58.3	1.067	2.050	1.0	16.5
1 22	7 19.10	+25 8.1	1.071	2.041	6.5	16.8
2 1	7 9.64	+26 6.4	1.099	2.032	12.2	17.1
2 11	7 3.27	+26 50.5	1.150	2.023	17.3	17.3

259903 2004 ES_3 1 11.9 353°.18 3°.6/13.5 18

12 3	7 53.72	+ 9 43.3	1.451	2.224	19.6	19.6
12 13	7 51.81	+10 6.9	1.366	2.220	16.2	19.4
12 23	7 46.83	+10 52.2	1.298	2.216	12.0	19.1
1 2	7 39.25	+11 59.1	1.254	2.214	7.3	18.8
1 12	7 30.10	+13 23.6	1.234	2.212	3.7	18.6
1 22	7 20.75	+14 59.0	1.242	2.211	6.0	18.8
2 1	7 12.68	+16 37.0	1.276	2.210	10.6	19.0
2 11	7 7.12	+18 10.2	1.333	2.211	15.1	19.3

163254 2002 GL_{24} 1 11.9 93°.89 4°.0/13.3 18

12 3	8 0.53	+11 2.9	1.691	2.441	18.1	20.3
12 13	7 56.41	+10 47.9	1.617	2.457	14.8	20.1
12 23	7 49.48	+10 47.0	1.564	2.473	10.9	19.9
1 2	7 40.36	+11 0.5	1.534	2.489	6.8	19.7
1 12	7 30.10	+11 26.8	1.531	2.505	4.0	19.6
1 22	7 19.96	+12 2.7	1.557	2.520	5.8	19.7
2 1	7 11.17	+12 44.4	1.610	2.535	9.6	20.0
2 11	7 4.71	+13 28.0	1.688	2.550	13.3	20.2

201321 2002 TY_{122} 1 11.9 254°.09 0°.4/12.0 18

12 3	7 58.44	+21 2.8	2.303	3.059	13.7	20.0
12 13	7 54.23	+20 50.4	2.204	3.055	11.0	19.8
12 23	7 47.73	+20 41.7	2.128	3.050	7.7	19.6
1 2	7 39.42	+20 35.2	2.078	3.046	4.0	19.4
1 12	7 30.11	+20 29.3	2.058	3.041	0.4	19.1
1 22	7 20.77	+20 22.5	2.067	3.036	4.0	19.4
2 1	7 12.39	+20 14.4	2.107	3.031	7.7	19.6
2 11	7 5.80	+20 4.6	2.172	3.026	11.1	19.8

227052 2005 CK_{45} 1 11.9 248°.78 0°.5/12.1 18

12 3	7 59.51	+18 16.4	1.907	2.668	16.0	21.3
12 13	7 55.81	+18 36.2	1.803	2.656	12.9	21.1
12 23	7 49.31	+19 6.0	1.719	2.643	9.1	20.8
1 2	7 40.45	+19 43.5	1.662	2.629	4.8	20.5
1 12	7 30.12	+20 25.0	1.632	2.616	0.5	20.2
1 22	7 19.52	+21 6.4	1.632	2.601	4.8	20.4
2 1	7 9.93	+21 44.1	1.661	2.587	9.3	20.7
2 11	7 2.50	+22 16.2	1.714	2.572	13.3	20.9

350986 2003 FA_{106} 1 11.9 309°.30 1°.6/12.4 18

12 3	7 56.12	+15 55.2	1.372	2.161	19.8	20.6
12 13	7 54.22	+16 8.6	1.277	2.145	16.1	20.3
12 23	7 48.87	+16 37.7	1.200	2.128	11.6	19.9
1 2	7 40.48	+17 21.4	1.144	2.112	6.4	19.6
1 12	7 30.12	+18 15.7	1.115	2.097	1.7	19.3
1 22	7 19.32	+19 14.6	1.111	2.082	6.0	19.5
2 1	7 9.85	+20 12.2	1.132	2.067	11.6	19.8
2 11	7 3.22	+21 4.0	1.176	2.054	16.7	20.0

367320 2008 AQ_{35} 1 11.9 277°.05 1°.1/12.4 18

12 3	7 57.46	+15 46.7	1.782	2.547	16.8	20.9
12 13	7 54.29	+16 15.5	1.686	2.540	13.6	20.6
12 23	7 48.30	+16 57.7	1.610	2.533	9.7	20.4
1 2	7 39.93	+17 51.3	1.559	2.526	5.2	20.1
1 12	7 30.12	+18 52.1	1.536	2.518	1.1	19.8
1 22	7 20.09	+19 54.9	1.542	2.511	4.9	20.1
2 1	7 11.13	+20 54.8	1.575	2.504	9.5	20.3
2 11	7 4.39	+21 48.3	1.634	2.497	13.6	20.5

165137 2000 KM_{79} 1 11.9 97°.20 8°.7/16.2 18

12 3	7 56.60	− 7 42.1	2.741	3.372	14.3	19.7
12 13	7 52.12	− 8 55.5	2.670	3.393	12.7	19.6
12 23	7 45.88	− 9 52.6	2.618	3.414	11.1	19.5
1 2	7 38.34	−10 29.9	2.589	3.435	9.6	19.5
1 12	7 30.15	−10 45.1	2.586	3.455	8.8	19.5
1 22	7 22.01	−10 38.4	2.609	3.475	8.9	19.5
2 1	7 14.65	−10 11.6	2.658	3.495	9.8	19.6
2 11	7 8.67	− 9 28.9	2.731	3.514	11.1	19.7

419551 2010 OM_{106} 1 11.9 36°.96 2°.8/11.5 18

12 3	8 4.08	+29 18.9	1.444	2.232	19.0	20.5
12 13	7 59.95	+29 10.2	1.380	2.248	15.2	20.3
12 23	7 52.25	+28 59.8	1.334	2.264	10.7	20.1
1 2	7 41.81	+28 43.1	1.313	2.280	5.8	19.8
1 12	7 30.11	+28 16.4	1.318	2.298	2.8	19.7
1 22	7 18.86	+27 38.9	1.350	2.316	6.2	20.0
2 1	7 9.60	+26 52.6	1.409	2.334	10.7	20.3
2 11	7 3.39	+26 1.4	1.492	2.353	14.7	20.6

409930 2006 UP_{36} 1 11.9 104°.43 7°.8/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 0.16	+ 0 23.1	2.088	2.779	16.8	22.2
12 13	7 55.44	− 0 36.5	2.016	2.800	14.4	22.1
12 23	7 48.44	− 1 19.5	1.964	2.821	11.7	21.9
1 2	7 39.72	− 1 42.5	1.935	2.842	9.3	21.8
1 12	7 30.14	− 1 44.1	1.933	2.862	7.9	21.8
1 22	7 20.68	− 1 24.9	1.959	2.881	8.3	21.8
2 1	7 12.30	− 0 48.2	2.012	2.900	10.1	22.0
2 11	7 5.79	+ 0 1.2	2.090	2.919	12.5	22.2

459831 2013 SV_{72} 1 11.9 102°.63 1°.7/12.7 18

12 3	7 56.36	+14 15.3	2.220	2.968	14.4	20.7
12 13	7 52.59	+14 34.8	2.133	2.975	11.6	20.5
12 23	7 46.60	+15 5.1	2.067	2.983	8.3	20.3
1 2	7 38.85	+15 44.7	2.027	2.990	4.6	20.1
1 12	7 30.15	+16 30.7	2.016	2.997	1.7	19.9
1 22	7 21.41	+17 19.7	2.036	3.004	4.1	20.1
2 1	7 13.60	+18 8.4	2.085	3.011	7.7	20.3
2 11	7 7.53	+18 54.1	2.160	3.018	11.0	20.6

341771 2007 VA_{335} 1 11.9 105°.59 3°.1/10.2 18

12 3	7 59.14	+29 35.0	2.715	3.470	11.9	21.3
12 13	7 54.51	+30 32.0	2.639	3.488	9.4	21.1
12 23	7 47.77	+31 29.9	2.587	3.506	6.7	21.0
1 2	7 39.39	+32 24.1	2.564	3.523	4.1	20.9
1 12	7 30.15	+33 10.4	2.571	3.540	3.1	20.8
1 22	7 20.92	+33 45.7	2.608	3.557	4.9	21.0
2 1	7 12.61	+34 8.6	2.675	3.573	7.5	21.1
2 11	7 5.97	+34 19.7	2.769	3.589	10.0	21.3

491204 2011 UN_{120} 1 11.9 98°.83 4°.2/10.7 18

12 3	8 6.59	+30 16.8	1.734	2.504	17.0	21.5
12 13	8 1.55	+31 2.7	1.667	2.524	13.6	21.3
12 23	7 53.22	+31 49.0	1.622	2.544	9.7	21.1
1 2	7 42.32	+32 28.9	1.602	2.563	5.9	20.9
1 12	7 30.13	+32 55.8	1.610	2.582	4.2	20.9
1 22	7 18.20	+33 6.1	1.647	2.600	6.7	21.1
2 1	7 7.98	+32 59.8	1.711	2.618	10.4	21.3
2 11	7 0.57	+32 40.1	1.799	2.636	13.8	21.6

34944 2202 $T\text{-}_1$ 1 11.9 271°.76 1°.2/12.4 18

12 3	7 55.90	+16 41.5	2.756	3.497	12.0	20.4
12 13	7 52.00	+16 47.9	2.631	3.472	9.7	20.2
12 23	7 46.14	+17 1.1	2.529	3.445	7.0	20.0
1 2	7 38.66	+17 20.2	2.455	3.419	3.8	19.8
1 12	7 30.17	+17 43.6	2.410	3.392	1.2	19.5
1 22	7 21.43	+18 9.1	2.397	3.364	3.6	19.7
2 1	7 13.29	+18 34.9	2.413	3.336	7.0	19.8
2 11	7 6.52	+18 59.2	2.458	3.308	10.1	20.0

460518 2014 TC_5 1 11.9 106°.54 3°.8/10.6 18

12 3	8 2.92	+30 4.0	1.995	2.762	15.2	21.4
12 13	7 58.30	+30 49.1	1.920	2.775	12.1	21.3
12 23	7 50.81	+31 34.8	1.867	2.788	8.7	21.1
1 2	7 41.07	+32 15.5	1.840	2.801	5.3	20.9
1 12	7 30.15	+32 45.4	1.842	2.813	3.8	20.8
1 22	7 19.32	+33 1.3	1.873	2.826	6.1	21.0
2 1	7 9.87	+33 2.2	1.932	2.837	9.5	21.2
2 11	7 2.79	+32 50.5	2.015	2.849	12.6	21.4

37392 Yukiniall 1 11.9 280°.30 6°.1/13.1 18

12 3	7 59.13	+ 9 53.6	1.615	2.368	18.7	19.2
12 13	7 55.92	+ 8 56.7	1.512	2.351	15.7	18.9
12 23	7 49.64	+ 8 10.8	1.428	2.333	12.1	18.6
1 2	7 40.73	+ 7 39.2	1.367	2.315	8.4	18.4
1 12	7 30.15	+ 7 24.0	1.332	2.297	6.1	18.2
1 22	7 19.23	+ 7 25.4	1.323	2.279	7.7	18.2
2 1	7 9.44	+ 7 41.8	1.341	2.261	11.6	18.4
2 11	7 2.05	+ 8 9.4	1.382	2.243	15.7	18.6

459055 2012 BB_{12} 1 11.9 321°.44 1°.9/11.3 18

12 3	7 57.40	+23 52.4	1.548	2.339	17.8	21.0
12 13	7 54.91	+24 23.7	1.456	2.327	14.3	20.8
12 23	7 49.11	+25 2.6	1.384	2.316	10.1	20.5
1 2	7 40.50	+25 44.6	1.336	2.305	5.3	20.2
1 12	7 30.16	+26 23.7	1.314	2.295	2.0	19.9
1 22	7 19.58	+26 54.6	1.319	2.285	6.1	20.2
2 1	7 10.37	+27 14.3	1.350	2.276	11.0	20.4
2 11	7 3.87	+27 22.5	1.404	2.267	15.4	20.7

292680 2006 UR_{89} 1 11.9 124°.59 0°.8/12.2 18

12 3	8 1.82	+18 28.4	2.211	2.958	14.5	21.8
12 13	7 56.79	+18 31.7	2.131	2.975	11.6	21.6
12 23	7 49.42	+18 41.5	2.073	2.992	8.1	21.4
1 2	7 40.25	+18 56.0	2.042	3.008	4.3	21.2
1 12	7 30.17	+19 12.8	2.041	3.023	0.8	21.0
1 22	7 20.19	+19 29.5	2.070	3.038	4.0	21.3
2 1	7 11.32	+19 44.5	2.129	3.052	7.7	21.5
2 11	7 4.37	+19 56.9	2.215	3.066	11.0	21.7

490413 2009 SC_{32} 1 11.9 113°.56 1°.0/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 0.09	+17 51.0	2.232	2.980	14.3	22.2
12 13	7 55.41	+17 53.5	2.152	2.997	11.4	22.1
12 23	7 48.45	+18 2.9	2.095	3.013	8.0	21.9
1 2	7 39.75	+18 17.6	2.064	3.029	4.3	21.7
1 12	7 30.17	+18 35.3	2.062	3.045	1.0	21.4
1 22	7 20.69	+18 53.7	2.092	3.060	4.0	21.7
2 1	7 12.27	+19 11.0	2.150	3.074	7.6	21.9
2 11	7 5.71	+19 26.0	2.236	3.089	10.8	22.2

378465 2007 TV_{19} 1 11.9 49°.27 2°.6/12.9 18

12 3	7 55.99	+13 52.8	2.050	2.803	15.3	20.6
12 13	7 52.35	+13 41.3	1.974	2.818	12.3	20.5
12 23	7 46.42	+13 39.5	1.920	2.834	8.9	20.3
1 2	7 38.74	+13 47.2	1.891	2.851	5.2	20.1
1 12	7 30.18	+14 2.8	1.890	2.867	2.7	20.0
1 22	7 21.72	+14 24.2	1.918	2.884	4.6	20.1
2 1	7 14.33	+14 48.8	1.974	2.901	8.0	20.4
2 11	7 8.80	+15 14.5	2.057	2.918	11.3	20.6

231413 2007 CT_{41} 1 11.9 231°.67 2°.3/11.4 18

12 3	8 4.91	+26 18.0	1.667	2.440	17.4	21.4
12 13	8 0.66	+26 34.1	1.571	2.432	14.1	21.1
12 23	7 52.99	+26 53.5	1.496	2.423	10.0	20.8
1 2	7 42.43	+27 11.4	1.446	2.414	5.4	20.6
1 12	7 30.15	+27 22.5	1.423	2.404	2.3	20.3
1 22	7 17.71	+27 23.0	1.429	2.394	6.0	20.5
2 1	7 6.74	+27 12.0	1.462	2.383	10.8	20.8
2 11	6 58.57	+26 51.4	1.520	2.372	15.0	21.0

191210 2002 QR_{41} 1 11.9 28°.26 0°.1/11.9 18

12 3	7 55.49	+18 34.5	1.471	2.261	18.6	18.7
12 13	7 52.91	+19 7.1	1.413	2.283	14.8	18.5
12 23	7 47.28	+19 51.0	1.375	2.306	10.2	18.3
1 2	7 39.30	+20 42.3	1.360	2.330	5.2	18.0
1 12	7 30.18	+21 35.6	1.372	2.356	0.1	17.7
1 22	7 21.28	+22 25.4	1.411	2.382	5.1	18.2
2 1	7 13.92	+23 7.9	1.477	2.409	9.7	18.5
2 11	7 9.09	+23 41.3	1.566	2.437	13.7	18.8

458260 2010 TB_{166} 1 11.9 47°.53 8°.7/14.4 16

12 3	8 0.22	+ 4 8.2	1.476	2.216	20.8	19.9
12 13	7 56.26	+ 2 41.7	1.422	2.242	17.5	19.7
12 23	7 49.37	+ 1 34.0	1.386	2.270	14.0	19.6
1 2	7 40.27	+ 0 50.2	1.371	2.297	10.7	19.5
1 12	7 30.17	+ 0 32.6	1.382	2.325	8.8	19.4
1 22	7 20.40	+ 0 40.2	1.417	2.354	9.5	19.5
2 1	7 12.21	+ 1 8.9	1.478	2.383	11.9	19.8
2 11	7 6.50	+ 1 52.5	1.562	2.411	14.9	20.0

217423 2005 QC_{171} 1 11.9 96°.90 0°.1/11.9 18

12 3	8 2.14	+21 47.0	2.014	2.773	15.3	20.7
12 13	7 57.29	+21 47.0	1.939	2.791	12.2	20.5
12 23	7 49.87	+21 51.5	1.886	2.809	8.4	20.3
1 2	7 40.50	+21 58.1	1.859	2.827	4.3	20.1
1 12	7 30.17	+22 4.0	1.861	2.845	0.1	19.8
1 22	7 20.02	+22 7.2	1.894	2.862	4.3	20.2
2 1	7 11.16	+22 6.7	1.955	2.879	8.3	20.4
2 11	7 4.43	+22 2.6	2.042	2.895	11.7	20.7

20502 1999 RG_{11} 1 11.9 28°.40 3°.9/13.9 18

12 3	7 55.42	+ 7 58.7	1.903	2.644	16.7	17.4
12 13	7 52.27	+ 8 15.9	1.814	2.647	13.8	17.2
12 23	7 46.63	+ 8 50.7	1.745	2.650	10.3	17.0
1 2	7 38.99	+ 9 42.9	1.701	2.653	6.7	16.8
1 12	7 30.19	+10 50.1	1.684	2.656	4.0	16.6
1 22	7 21.30	+12 7.7	1.696	2.659	5.4	16.7
2 1	7 13.42	+13 30.1	1.736	2.663	8.9	16.9
2 11	7 7.48	+14 51.8	1.803	2.667	12.5	17.2

343979 2011 LX_{26} 1 11.9 180°.38 3°.5/13.7 18

12 3	7 54.64	+ 8 24.2	2.767	3.484	12.5	21.6
12 13	7 50.75	+ 8 19.6	2.668	3.485	10.3	21.4
12 23	7 45.08	+ 8 25.6	2.591	3.485	7.8	21.2
1 2	7 38.03	+ 8 42.5	2.540	3.485	5.2	21.1
1 12	7 30.21	+ 9 9.5	2.519	3.485	3.5	21.0
1 22	7 22.33	+ 9 44.8	2.528	3.484	4.5	21.0
2 1	7 15.12	+10 26.1	2.567	3.484	6.9	21.2
2 11	7 9.25	+11 10.6	2.633	3.483	9.5	21.3

211212 2002 PZ_{21} 1 11.9 187°.67 1°.1/12.3 18

12 3	8 0.30	+17 1.4	2.141	2.890	14.8	21.9
12 13	7 55.92	+17 13.6	2.045	2.890	11.9	21.7
12 23	7 49.06	+17 34.7	1.970	2.889	8.5	21.5
1 2	7 40.20	+18 2.7	1.922	2.887	4.5	21.2
1 12	7 30.19	+18 35.0	1.903	2.885	1.1	21.0
1 22	7 20.08	+19 8.4	1.914	2.883	4.3	21.2
2 1	7 10.96	+19 40.1	1.955	2.879	8.2	21.4
2 11	7 3.76	+20 8.5	2.022	2.876	11.8	21.6

126217 2002 AH_{47} 1 11.9 5°.84 1°.0/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 55.81	+19 35.8	1.160	1.970	21.4	20.0
12 13	7 54.28	+19 26.0	1.089	1.969	17.3	19.8
12 23	7 48.94	+19 26.3	1.035	1.970	12.2	19.5
1 2	7 40.45	+19 34.9	1.002	1.972	6.4	19.2
1 12	7 30.19	+19 48.4	0.992	1.975	1.0	18.8
1 22	7 19.97	+20 2.7	1.008	1.980	6.2	19.2
2 1	7 11.60	+20 15.1	1.047	1.986	11.9	19.5
2 11	7 6.44	+20 24.0	1.107	1.992	16.9	19.8

468246 2015 BE_{255} 1 11.9 289°.59 1°.0/11.6 18

12 3	7 58.71	+24 43.8	2.260	3.023	13.7	20.5
12 13	7 54.58	+24 45.1	2.165	3.020	11.0	20.3
12 23	7 48.05	+24 48.4	2.092	3.017	7.7	20.0
1 2	7 39.64	+24 51.3	2.046	3.014	4.0	19.8
1 12	7 30.20	+24 51.1	2.028	3.011	1.0	19.6
1 22	7 20.76	+24 46.1	2.041	3.008	4.3	19.8
2 1	7 12.33	+24 35.6	2.083	3.005	8.0	20.0
2 11	7 5.80	+24 20.3	2.151	3.002	11.3	20.2

290487 2005 UH_{4} 1 11.9 43°.46 8°.3/14.8 18

12 3	7 56.16	+ 2 11.9	1.705	2.431	18.8	20.0
12 13	7 52.93	+ 1 9.7	1.633	2.443	16.1	19.9
12 23	7 47.08	+ 0 25.9	1.579	2.456	13.0	19.7
1 2	7 39.18	+ 0 4.5	1.548	2.469	10.1	19.6
1 12	7 30.21	+ 0 7.5	1.541	2.482	8.4	19.5
1 22	7 21.32	+ 0 33.6	1.561	2.496	8.9	19.6
2 1	7 13.64	+ 1 19.0	1.606	2.510	11.2	19.7
2 11	7 8.09	+ 2 17.6	1.674	2.524	14.0	19.9

495580 2014 YU_{7} 1 11.9 72°.00 2°.2/10.9 18

12 3	7 57.65	+24 48.0	2.167	2.935	14.1	21.0
12 13	7 53.93	+25 39.9	2.081	2.939	11.2	20.8
12 23	7 47.73	+26 37.1	2.018	2.944	7.8	20.6
1 2	7 39.53	+27 35.1	1.981	2.948	4.2	20.4
1 12	7 30.21	+28 28.8	1.974	2.953	2.2	20.3
1 22	7 20.81	+29 13.8	1.996	2.957	5.0	20.5
2 1	7 12.43	+29 47.7	2.047	2.962	8.5	20.7
2 11	7 6.01	+30 10.0	2.124	2.966	11.7	20.9

450972 2008 RJ_{72} 1 11.9 66°.37 1°.6/11.6 15

12 3	8 6.12	+24 15.6	1.338	2.124	20.3	22.1
12 13	8 1.67	+24 30.0	1.282	2.149	16.1	21.9
12 23	7 53.51	+24 49.7	1.244	2.174	11.2	21.7
1 2	7 42.50	+25 9.4	1.230	2.200	5.7	21.4
1 12	7 30.20	+25 23.7	1.243	2.225	1.6	21.2
1 22	7 18.37	+25 29.1	1.282	2.250	6.0	21.6
2 1	7 8.62	+25 25.1	1.348	2.275	10.9	21.9
2 11	7 2.07	+25 13.5	1.437	2.300	15.1	22.2

520732 2014 QE_{472} 1 11.9 123°.06 1°.5/11.2 18

12 3	7 59.96	+22 4.7	2.002	2.767	15.2	21.8
12 13	7 55.92	+23 0.2	1.918	2.775	12.1	21.6
12 23	7 49.20	+24 3.7	1.857	2.782	8.4	21.3
1 2	7 40.32	+25 10.6	1.822	2.790	4.3	21.1
1 12	7 30.22	+26 15.3	1.816	2.797	1.6	20.9
1 22	7 20.04	+27 12.4	1.840	2.804	4.9	21.2
2 1	7 10.98	+27 58.6	1.893	2.811	8.9	21.4
2 11	7 4.05	+28 33.1	1.972	2.818	12.4	21.7

463563 2013 RJ_{71} 1 11.9 145°.70 2°.6/10.9 18

12 3	8 0.36	+28 14.7	2.352	3.112	13.3	22.0
12 13	7 55.84	+28 47.4	2.266	3.118	10.6	21.8
12 23	7 48.90	+29 21.5	2.202	3.124	7.5	21.6
1 2	7 40.07	+29 52.7	2.166	3.129	4.3	21.4
1 12	7 30.22	+30 17.1	2.158	3.134	2.7	21.3
1 22	7 20.38	+30 31.6	2.182	3.139	5.0	21.5
2 1	7 11.59	+30 35.4	2.234	3.144	8.2	21.7
2 11	7 4.73	+30 29.4	2.312	3.148	11.2	21.9

27992 1997 VR_{7} 1 11.9 156°.93 3°.9/10.1 18

12 3	7 59.62	+32 4.9	2.512	3.271	12.6	18.0
12 13	7 55.26	+32 54.6	2.425	3.274	10.1	17.9
12 23	7 48.53	+33 43.9	2.361	3.277	7.4	17.7
1 2	7 39.90	+34 28.0	2.324	3.280	4.8	17.5
1 12	7 30.23	+35 2.3	2.317	3.282	3.9	17.5
1 22	7 20.52	+35 23.4	2.340	3.284	5.7	17.6
2 1	7 11.80	+35 30.5	2.391	3.286	8.4	17.8
2 11	7 4.94	+35 24.9	2.468	3.288	11.1	17.9

26909 Lefschetz 1 11.9 88°.23 6°.5/10.1 18

12 3	8 7.92	+37 41.2	1.860	2.622	16.3	18.7
12 13	8 2.68	+38 33.7	1.796	2.641	13.3	18.6
12 23	7 54.05	+39 20.8	1.753	2.659	10.2	18.4
1 2	7 42.78	+39 54.3	1.734	2.677	7.4	18.3
1 12	7 30.22	+40 7.8	1.744	2.695	6.6	18.3
1 22	7 17.98	+39 58.4	1.781	2.712	8.3	18.4
2 1	7 7.56	+39 27.9	1.844	2.730	11.1	18.6
2 11	7 0.05	+38 41.3	1.932	2.747	13.9	18.8

104462 2000 GO_{10} 1 11.9 131°.18 4°.5/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 2.07	+35 17.3	2.572	3.324	12.5	19.7
12 13	7 57.10	+35 57.9	2.491	3.334	10.1	19.5
12 23	7 49.71	+36 35.4	2.434	3.343	7.6	19.4
1 2	7 40.46	+37 4.9	2.403	3.352	5.3	19.3
1 12	7 30.24	+37 22.1	2.402	3.360	4.5	19.2
1 22	7 20.09	+37 24.5	2.431	3.368	6.0	19.3
2 1	7 11.06	+37 12.3	2.488	3.376	8.5	19.5
2 11	7 3.98	+36 47.6	2.571	3.384	10.9	19.7

296980 2010 EC_{104} 1 11.9 301°.07 4°.5/14.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.24	+ 6 10.7	2.185	2.912	15.2	20.2
12 13	7 51.27	+ 6 19.8	2.063	2.884	12.8	19.9
12 23	7 46.01	+ 6 45.6	1.962	2.857	9.9	19.7
1 2	7 38.78	+ 7 29.4	1.885	2.829	6.8	19.4
1 12	7 30.26	+ 8 30.5	1.835	2.802	4.6	19.3
1 22	7 21.37	+ 9 45.9	1.815	2.774	5.7	19.3
2 1	7 13.14	+11 10.9	1.824	2.747	8.9	19.4
2 11	7 6.53	+12 40.0	1.860	2.719	12.4	19.6

466415 2013 TD_{2} 1 11.9 115°.08 0°.3/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.03	+22 48.7	2.252	3.010	13.9	21.4
12 13	7 55.49	+22 44.6	2.166	3.017	11.1	21.2
12 23	7 48.59	+22 43.6	2.101	3.025	7.7	21.0
1 2	7 39.89	+22 43.6	2.064	3.032	3.9	20.7
1 12	7 30.26	+22 42.3	2.056	3.039	0.3	20.4
1 22	7 20.70	+22 38.0	2.078	3.046	4.0	20.8
2 1	7 12.22	+22 30.3	2.130	3.053	7.7	21.0
2 11	7 5.63	+22 19.3	2.208	3.060	11.0	21.2

193890 2001 QK_{215} 1 11.9 90°.86 1°.7/12.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.12	+15 58.1	1.552	2.317	18.9	20.6
12 13	7 58.79	+16 8.4	1.484	2.338	15.1	20.4
12 23	7 51.33	+16 30.9	1.436	2.358	10.7	20.2
1 2	7 41.42	+17 3.5	1.412	2.378	5.8	20.0
1 12	7 30.26	+17 42.2	1.416	2.398	1.7	19.8
1 22	7 19.31	+18 22.5	1.448	2.417	5.2	20.1
2 1	7 9.93	+19 0.6	1.507	2.436	9.8	20.4
2 11	7 3.19	+19 34.3	1.591	2.454	13.9	20.7

247032 2000 BY_{12} 1 11.9 93°.73 0°.9/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.35	+23 59.3	2.879	3.633	11.3	21.2
12 13	7 51.31	+24 13.6	2.790	3.641	8.9	21.0
12 23	7 45.46	+24 30.3	2.726	3.649	6.2	20.9
1 2	7 38.23	+24 47.4	2.689	3.657	3.2	20.7
1 12	7 30.29	+25 2.4	2.683	3.665	0.9	20.5
1 22	7 22.37	+25 13.6	2.707	3.673	3.4	20.7
2 1	7 15.22	+25 20.0	2.761	3.680	6.4	20.9
2 11	7 9.49	+25 21.4	2.843	3.688	9.0	21.1

250472 2004 CH_{67} 1 11.9 317°.89 0°.9/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 58.28	+23 31.0	1.531	2.320	18.0	20.6
12 13	7 55.65	+23 33.0	1.435	2.305	14.6	20.3
12 23	7 49.67	+23 40.0	1.358	2.290	10.3	20.0
1 2	7 40.84	+23 48.9	1.305	2.276	5.3	19.7
1 12	7 30.27	+23 55.7	1.279	2.262	0.9	19.4
1 22	7 19.47	+23 57.1	1.279	2.248	5.7	19.7
2 1	7 10.07	+23 51.6	1.305	2.236	10.9	19.9
2 11	7 3.39	+23 39.7	1.355	2.224	15.5	20.1

373335 2012 JE_{32} 1 11.9 188°.76 2°.1/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 59.84	+26 18.9	2.212	2.975	14.0	21.9
12 13	7 55.64	+26 48.9	2.119	2.975	11.1	21.7
12 23	7 48.91	+27 21.7	2.050	2.974	7.8	21.5
1 2	7 40.17	+27 53.6	2.007	2.973	4.3	21.3
1 12	7 30.28	+28 20.3	1.993	2.972	2.2	21.1
1 22	7 20.34	+28 38.5	2.009	2.971	4.9	21.3
2 1	7 11.45	+28 46.9	2.054	2.969	8.5	21.5
2 11	7 4.55	+28 46.0	2.125	2.968	11.7	21.7

456818 2007 TN_{389} 1 11.9 58°.76 1°.4/12.4 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.41	+16 43.0	1.454	2.232	19.4	21.3
12 13	7 56.86	+16 52.5	1.390	2.251	15.5	21.1
12 23	7 50.10	+17 14.2	1.344	2.270	10.9	20.9
1 2	7 40.82	+17 45.9	1.323	2.290	5.8	20.7
1 12	7 30.28	+18 23.3	1.328	2.310	1.5	20.4
1 22	7 19.96	+19 1.7	1.360	2.330	5.3	20.7
2 1	7 11.26	+19 37.6	1.419	2.350	10.1	21.1
2 11	7 5.27	+20 8.5	1.501	2.370	14.2	21.4

289310 2005 AR_{16} 1 11.9 308°.44 1°.2/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.32	+21 22.1	1.468	2.254	18.8	20.3
12 13	7 57.44	+20 46.5	1.365	2.232	15.4	20.0
12 23	7 51.04	+20 14.0	1.282	2.212	11.0	19.6
1 2	7 41.61	+19 43.2	1.222	2.191	5.9	19.3
1 12	7 30.28	+19 13.1	1.188	2.171	1.2	18.9
1 22	7 18.62	+18 42.7	1.181	2.151	5.9	19.2
2 1	7 8.37	+18 12.6	1.200	2.132	11.4	19.4
2 11	7 0.96	+17 43.8	1.241	2.114	16.4	19.7

430191 2013 TB_{122} 1 11.9 119°.54 3°.9/10.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.80	+31 40.8	2.371	3.134	13.2	21.0
12 13	7 55.53	+32 32.3	2.288	3.140	10.6	20.9
12 23	7 48.79	+33 23.8	2.228	3.146	7.7	20.7
1 2	7 40.08	+34 10.1	2.195	3.151	5.0	20.5
1 12	7 30.29	+34 46.2	2.191	3.157	4.0	20.5
1 22	7 20.49	+35 8.8	2.217	3.163	5.9	20.6
2 1	7 11.74	+35 16.8	2.271	3.168	8.7	20.8
2 11	7 4.97	+35 11.7	2.350	3.173	11.4	21.0

142378 2002 SJ_{1} 1 11.9 97°.23 0°.6/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.46	+22 36.4	1.891	2.653	16.1	20.9
12 13	7 58.55	+22 47.2	1.819	2.673	12.7	20.7
12 23	7 50.88	+23 2.8	1.769	2.693	8.8	20.5
1 2	7 41.11	+23 19.8	1.745	2.713	4.5	20.3
1 12	7 30.29	+23 34.7	1.749	2.732	0.6	20.0
1 22	7 19.68	+23 44.9	1.784	2.751	4.6	20.4
2 1	7 10.47	+23 49.1	1.847	2.770	8.7	20.6
2 11	7 3.57	+23 47.7	1.935	2.788	12.3	20.9

302917 2003 SC_{102} 1 11.9 23°.09 25°.7/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 51.82	−20 42.1	0.923	1.616	33.4	20.2
12 13	7 51.61	−23 43.7	0.887	1.622	31.6	20.0
12 23	7 47.39	−25 57.7	0.857	1.630	29.8	19.9
1 2	7 39.79	−27 8.3	0.837	1.639	28.1	19.8
1 12	7 30.29	−27 4.1	0.828	1.650	26.7	19.8
1 22	7 20.83	−25 42.8	0.830	1.662	25.8	19.8
2 1	7 13.35	−23 11.7	0.845	1.675	25.7	19.8
2 11	7 9.35	−19 48.9	0.873	1.690	26.4	19.9

15012 1998 QS_{92} 1 11.9 101°.22 1°.4/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 5.51	+21 53.3	1.634	2.402	18.0	17.7
12 13	8 0.70	+22 38.6	1.567	2.424	14.3	17.5
12 23	7 52.68	+23 32.2	1.521	2.447	9.9	17.3
1 2	7 42.13	+24 28.7	1.500	2.468	5.0	17.1
1 12	7 30.29	+25 21.7	1.507	2.490	1.4	16.9
1 22	7 18.63	+26 5.7	1.544	2.510	5.5	17.2
2 1	7 8.60	+26 38.1	1.609	2.530	9.9	17.5
2 11	7 1.28	+26 59.0	1.698	2.549	13.8	17.8

345623 2006 SV_{258} 1 11.9 141°.59 6°.8/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 53.74	− 1 15.8	2.711	3.388	13.6	21.7
12 13	7 50.06	− 1 57.9	2.620	3.391	11.8	21.6
12 23	7 44.63	− 2 26.0	2.548	3.394	9.8	21.4
1 2	7 37.85	− 2 37.6	2.501	3.397	7.9	21.3
1 12	7 30.32	− 2 31.6	2.480	3.400	6.8	21.2
1 22	7 22.77	− 2 8.4	2.488	3.403	7.1	21.3
2 1	7 15.89	− 1 30.3	2.523	3.406	8.5	21.4
2 11	7 10.34	− 0 40.9	2.584	3.409	10.5	21.5

496049 2008 YE_{28} 1 11.9 11°.34 0°.9/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 8.41	+28 51.1	1.849	2.609	16.4	20.2
12 13	8 2.60	+27 51.1	1.760	2.612	13.2	20.0
12 23	7 53.72	+26 45.3	1.692	2.616	9.3	19.7
1 2	7 42.55	+25 31.9	1.652	2.620	4.8	19.5
1 12	7 30.30	+24 10.7	1.641	2.624	0.9	19.2
1 22	7 18.39	+22 43.9	1.662	2.630	4.9	19.5
2 1	7 8.13	+21 15.7	1.712	2.636	9.3	19.8
2 11	7 0.49	+19 50.3	1.789	2.642	13.1	20.0

243723 2000 HG_{101} 1 11.9 242°.04 4°.2/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.17	+29 20.2	1.633	2.411	17.5	21.1
12 13	8 0.36	+30 5.0	1.541	2.403	14.2	20.8
12 23	7 52.99	+30 53.1	1.470	2.395	10.2	20.6
1 2	7 42.57	+31 37.5	1.423	2.386	6.2	20.3
1 12	7 30.30	+32 10.7	1.403	2.377	4.3	20.2
1 22	7 17.82	+32 27.3	1.411	2.368	7.2	20.3
2 1	7 6.86	+32 25.7	1.446	2.358	11.6	20.6
2 11	6 58.83	+32 8.4	1.503	2.348	15.6	20.8

450352 2004 VM_{37} 1 11.9 359°.52 0°.7/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.95	+19 42.4	1.227	2.032	20.8	21.3
12 13	7 54.28	+19 40.1	1.151	2.029	16.7	21.0
12 23	7 48.94	+19 48.0	1.093	2.027	11.8	20.7
1 2	7 40.50	+20 4.1	1.056	2.027	6.2	20.4
1 12	7 30.31	+20 24.3	1.044	2.027	0.7	20.0
1 22	7 20.07	+20 44.5	1.056	2.028	6.0	20.4
2 1	7 11.57	+21 1.4	1.093	2.031	11.7	20.7
2 11	7 6.16	+21 13.5	1.152	2.034	16.6	21.0

263007 2007 EA_{140} 1 11.9 15°.15 4°.9/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 55.07	+ 8 18.6	1.672	2.425	18.2	20.7
12 13	7 52.35	+ 8 9.8	1.588	2.427	15.1	20.5
12 23	7 46.90	+ 8 18.3	1.524	2.430	11.4	20.2
1 2	7 39.24	+ 8 45.1	1.482	2.433	7.6	20.0
1 12	7 30.32	+ 9 29.0	1.467	2.436	4.9	19.9
1 22	7 21.33	+10 26.2	1.478	2.440	6.3	20.0
2 1	7 13.51	+11 31.7	1.517	2.445	9.9	20.2
2 11	7 7.88	+12 39.8	1.580	2.449	13.6	20.4

350664 2001 US_{29} 1 11.9 49°.82 3°.7/10.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 1.76	+25 32.0	1.262	2.062	20.6	20.3
12 13	7 58.83	+26 36.8	1.203	2.078	16.4	20.1
12 23	7 52.00	+27 49.4	1.162	2.095	11.5	19.8
1 2	7 41.99	+29 1.2	1.144	2.112	6.4	19.6
1 12	7 30.31	+30 2.9	1.152	2.130	3.8	19.5
1 22	7 18.83	+30 47.2	1.186	2.148	7.4	19.8
2 1	7 9.40	+31 11.9	1.245	2.166	12.2	20.1
2 11	7 3.29	+31 18.8	1.326	2.185	16.4	20.4

43805 1991 RQ_{5} 1 11.9 217°.99 3°.8/10.6 18

12 3	8 3.21	+29 28.4	1.915	2.684	15.6	18.5
12 13	7 58.96	+30 11.3	1.822	2.679	12.6	18.3
12 23	7 51.62	+30 56.5	1.751	2.673	9.1	18.1
1 2	7 41.72	+31 38.0	1.705	2.667	5.4	17.8
1 12	7 30.31	+32 9.5	1.688	2.661	3.8	17.7
1 22	7 18.77	+32 26.8	1.700	2.655	6.4	17.9
2 1	7 8.52	+32 28.4	1.739	2.648	10.2	18.1
2 11	7 0.75	+32 16.3	1.803	2.641	13.7	18.3

101042 1998 QN_{99} 1 11.9 161°.06 1°.4/12.5 18

12 3	8 3.14	+16 13.1	1.880	2.630	16.5	20.2
12 13	7 58.48	+16 24.8	1.792	2.637	13.3	19.9
12 23	7 51.02	+16 47.1	1.725	2.643	9.5	19.7
1 2	7 41.31	+17 18.0	1.684	2.649	5.2	19.5
1 12	7 30.32	+17 54.2	1.671	2.653	1.4	19.2
1 22	7 19.29	+18 32.0	1.689	2.657	4.7	19.5
2 1	7 9.47	+19 8.2	1.735	2.660	9.0	19.7
2 11	7 1.90	+19 40.6	1.807	2.663	12.9	20.0

244235 2002 CX_{69} 1 11.9 258°.24 0°.5/12.1 18

12 3	7 59.23	+17 36.7	1.662	2.433	17.6	20.7
12 13	7 56.02	+18 3.9	1.567	2.426	14.2	20.4
12 23	7 49.72	+18 43.7	1.493	2.418	10.1	20.1
1 2	7 40.82	+19 33.5	1.442	2.411	5.3	19.8
1 12	7 30.32	+20 28.5	1.420	2.403	0.5	19.5
1 22	7 19.57	+21 23.3	1.425	2.395	5.2	19.8
2 1	7 10.02	+22 13.3	1.458	2.387	10.1	20.1
2 11	7 2.91	+22 55.8	1.516	2.379	14.4	20.3

351723 2006 BS_{274} 1 11.9 255°.66 3°.5/11.0 18

12 3	8 5.19	+29 33.5	1.778	2.549	16.6	21.2
12 13	8 0.91	+29 56.6	1.676	2.533	13.5	20.9
12 23	7 53.23	+30 20.8	1.594	2.517	9.7	20.7
1 2	7 42.66	+30 40.4	1.537	2.500	5.7	20.4
1 12	7 30.31	+30 49.4	1.507	2.483	3.6	20.2
1 22	7 17.71	+30 43.8	1.507	2.466	6.5	20.3
2 1	7 6.50	+30 23.2	1.533	2.448	10.9	20.6
2 11	6 58.01	+29 50.2	1.585	2.430	14.9	20.8

90379 2003 WO_{56} 1 11.9 125°.54 3°.2/13.8 18

12 3	7 54.95	+ 8 43.1	2.627	3.348	13.0	19.7
12 13	7 51.10	+ 8 53.3	2.535	3.356	10.7	19.5
12 23	7 45.39	+ 9 15.2	2.466	3.364	8.0	19.4
1 2	7 38.26	+ 9 48.8	2.423	3.371	5.2	19.2
1 12	7 30.35	+10 32.3	2.409	3.379	3.3	19.1
1 22	7 22.41	+11 23.3	2.426	3.386	4.3	19.2
2 1	7 15.21	+12 18.6	2.472	3.393	6.9	19.3
2 11	7 9.41	+13 15.0	2.547	3.400	9.7	19.5

16391 1981 EM_{40} 1 11.9 86°.22 0°.5/12.1 18

12 3	7 59.07	+18 40.0	1.907	2.670	15.9	19.3
12 13	7 55.17	+18 55.3	1.827	2.681	12.7	19.1
12 23	7 48.64	+19 18.9	1.768	2.692	8.9	18.9
1 2	7 40.05	+19 48.6	1.735	2.703	4.6	18.7
1 12	7 30.35	+20 20.9	1.731	2.714	0.5	18.4
1 22	7 20.70	+20 52.2	1.755	2.725	4.4	18.7
2 1	7 12.24	+21 20.1	1.808	2.735	8.6	19.0
2 11	7 5.91	+21 42.9	1.887	2.746	12.2	19.2

375356 2008 SL_{88} 1 11.9 79°.61 1°.0/11.6 18

12 3	7 58.89	+23 25.3	2.131	2.895	14.4	21.9
12 13	7 54.78	+23 44.6	2.051	2.907	11.4	21.7
12 23	7 48.22	+24 8.0	1.994	2.920	7.9	21.5
1 2	7 39.78	+24 32.5	1.963	2.932	4.1	21.3
1 12	7 30.35	+24 54.5	1.961	2.944	1.0	21.1
1 22	7 21.00	+25 11.2	1.989	2.956	4.4	21.3
2 1	7 12.77	+25 21.4	2.046	2.968	8.1	21.6
2 11	7 6.52	+25 24.9	2.129	2.980	11.4	21.8

426231 2012 OS_{1} 1 11.9 90°.61 3°.8/13.9 18

12 3	7 55.94	+ 7 50.8	2.507	3.226	13.6	21.8
12 13	7 51.84	+ 7 45.5	2.429	3.246	11.2	21.7
12 23	7 45.86	+ 7 52.1	2.372	3.266	8.5	21.5
1 2	7 38.47	+ 8 10.7	2.341	3.285	5.7	21.4
1 12	7 30.37	+ 8 40.4	2.339	3.304	3.9	21.3
1 22	7 22.33	+ 9 18.9	2.367	3.323	4.8	21.4
2 1	7 15.13	+10 3.4	2.425	3.342	7.2	21.6
2 11	7 9.42	+10 50.6	2.510	3.361	9.9	21.8

121947 2000 EC_{36} 1 11.9 188°.64 0°.4/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 2.66	+19 40.6	1.714	2.480	17.3	21.1
12 13	7 58.53	+19 48.3	1.624	2.480	13.9	20.8
12 23	7 51.31	+20 4.3	1.554	2.479	9.8	20.6
1 2	7 41.56	+20 25.9	1.510	2.478	5.1	20.3
1 12	7 30.35	+20 49.7	1.493	2.476	0.4	19.9
1 22	7 19.05	+21 11.8	1.505	2.474	5.1	20.3
2 1	7 9.07	+21 29.9	1.545	2.472	9.8	20.5
2 11	7 1.58	+21 43.1	1.609	2.469	14.0	20.8

485441 2011 QY_{66} 1 11.9 135°.95 2°.7/10.9 18

12 3	8 5.39	+26 28.3	1.942	2.703	15.7	21.6
12 13	8 0.32	+27 14.0	1.864	2.717	12.5	21.4
12 23	7 52.31	+28 3.5	1.807	2.730	8.8	21.2
1 2	7 41.96	+28 51.2	1.777	2.743	4.9	21.0
1 12	7 30.35	+29 31.4	1.777	2.754	2.7	20.8
1 22	7 18.80	+29 59.7	1.806	2.766	5.6	21.0
2 1	7 8.61	+30 14.8	1.864	2.776	9.4	21.3
2 11	7 0.85	+30 17.7	1.947	2.786	12.8	21.5

4456 Mawson 1 11.9 91°.71 8°.4/10.1 18

12 3	8 16.18	+41 43.5	1.731	2.482	17.7	17.8
12 13	8 9.60	+42 48.5	1.679	2.510	14.7	17.6
12 23	7 59.01	+43 44.3	1.647	2.539	11.6	17.5
1 2	7 45.35	+44 20.3	1.639	2.566	9.1	17.4
1 12	7 30.34	+44 28.9	1.658	2.594	8.4	17.4
1 22	7 15.95	+44 7.8	1.705	2.620	9.8	17.6
2 1	7 3.98	+43 20.8	1.777	2.646	12.3	17.8
2 11	6 55.54	+42 15.6	1.873	2.670	14.9	18.0

335899 2007 RN_{231} 1 11.9 92°.93 0°.6/11.7 18

12 3	7 58.58	+22 22.4	2.435	3.190	13.1	21.5
12 13	7 54.12	+22 39.6	2.358	3.208	10.3	21.4
12 23	7 47.54	+23 0.9	2.303	3.226	7.2	21.2
1 2	7 39.36	+23 23.7	2.276	3.244	3.6	21.0
1 12	7 30.37	+23 45.1	2.279	3.262	0.6	20.8
1 22	7 21.48	+24 2.7	2.312	3.279	3.8	21.1
2 1	7 13.57	+24 15.2	2.375	3.297	7.2	21.3
2 11	7 7.38	+24 22.4	2.465	3.313	10.1	21.5

326994 2004 PQ_{91} 1 11.9 128°.53 2°.4/11.2 18

12 3	8 1.99	+27 53.4	2.147	2.910	14.4	21.0
12 13	7 57.33	+28 14.2	2.064	2.917	11.5	20.8
12 23	7 50.06	+28 36.0	2.002	2.925	8.1	20.6
1 2	7 40.75	+28 54.8	1.967	2.932	4.5	20.4
1 12	7 30.37	+29 6.6	1.961	2.939	2.4	20.3
1 22	7 20.06	+29 8.8	1.985	2.946	5.0	20.5
2 1	7 10.95	+29 1.0	2.038	2.952	8.6	20.7
2 11	7 3.98	+28 44.6	2.116	2.958	11.8	20.9

50930 2000 GW_{66} 1 11.9 333°.08 4°.3/13.5 18

12 3	7 55.36	+ 9 25.6	2.235	2.969	14.7	19.4
12 13	7 51.83	+ 8 57.0	2.140	2.968	12.1	19.2
12 23	7 46.13	+ 8 39.3	2.067	2.967	9.2	19.1
1 2	7 38.73	+ 8 33.5	2.019	2.965	6.2	18.9
1 12	7 30.39	+ 8 39.7	1.998	2.964	4.3	18.7
1 22	7 21.98	+ 8 56.7	2.007	2.963	5.4	18.8
2 1	7 14.44	+ 9 22.2	2.043	2.962	8.3	19.0
2 11	7 8.55	+ 9 53.5	2.106	2.961	11.3	19.2

110432 2001 TE_{27} 1 11.9 148°.73 0°.1/11.9 18 R

12 3	7 57.11	+20 55.7	2.715	3.464	12.0	20.1
12 13	7 52.80	+21 1.9	2.622	3.469	9.6	19.9
12 23	7 46.58	+21 12.1	2.553	3.474	6.7	19.7
1 2	7 38.88	+21 24.6	2.512	3.479	3.4	19.5
1 12	7 30.39	+21 37.5	2.500	3.484	0.1	19.2
1 22	7 21.90	+21 48.8	2.520	3.488	3.4	19.6
2 1	7 14.23	+21 57.3	2.570	3.492	6.6	19.8
2 11	7 8.04	+22 2.7	2.647	3.496	9.5	20.0

421187 2013 RN_{74} 1 11.9 178°.72 4°.9/14.2 18

12 3	7 56.70	+ 5 5.2	2.516	3.221	13.9	21.9
12 13	7 52.59	+ 4 47.8	2.419	3.223	11.7	21.8
12 23	7 46.51	+ 4 43.3	2.342	3.224	9.1	21.6
1 2	7 38.88	+ 4 52.9	2.292	3.224	6.6	21.4
1 12	7 30.39	+ 5 16.5	2.269	3.224	5.0	21.3
1 22	7 21.83	+ 5 52.5	2.277	3.224	5.6	21.4
2 1	7 14.02	+ 6 38.2	2.313	3.223	7.9	21.5
2 11	7 7.70	+ 7 30.1	2.377	3.222	10.6	21.7

401959 2002 RJ_{250} 1 11.9 77°.11 1°.2/11.6 18

12 3	8 2.62	+23 23.1	1.678	2.452	17.3	21.3
12 13	7 58.33	+23 43.3	1.609	2.470	13.8	21.1
12 23	7 50.99	+24 8.9	1.561	2.488	9.5	20.9
1 2	7 41.28	+24 35.8	1.538	2.507	4.9	20.6
1 12	7 30.38	+24 59.1	1.542	2.525	1.2	20.4
1 22	7 19.68	+25 15.6	1.576	2.543	5.2	20.7
2 1	7 10.53	+25 23.7	1.637	2.561	9.6	21.0
2 11	7 3.94	+25 24.1	1.722	2.579	13.3	21.3

493205 2014 UO_{45} 1 11.9 113°.08 6°.1/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 58.94	+ 4 49.1	2.139	2.851	15.9	22.1
12 13	7 54.57	+ 4 2.6	2.059	2.865	13.4	21.9
12 23	7 47.95	+ 3 29.8	1.999	2.879	10.5	21.8
1 2	7 39.62	+ 3 13.0	1.964	2.892	7.8	21.6
1 12	7 30.39	+ 3 13.0	1.956	2.905	6.2	21.6
1 22	7 21.22	+ 3 29.0	1.977	2.918	6.9	21.6
2 1	7 13.06	+ 3 58.3	2.026	2.931	9.2	21.8
2 11	7 6.69	+ 4 37.0	2.100	2.943	11.9	22.0

443847 2001 OJ_{113} 1 11.9 87°.55 2°.3/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.29	+13 38.0	1.555	2.314	19.1	21.7
12 13	7 58.88	+13 54.8	1.490	2.338	15.4	21.5
12 23	7 51.38	+14 26.5	1.445	2.363	11.0	21.3
1 2	7 41.48	+15 10.8	1.423	2.387	6.2	21.0
1 12	7 30.39	+16 3.5	1.430	2.410	2.3	20.8
1 22	7 19.50	+16 59.4	1.464	2.433	5.3	21.1
2 1	7 10.19	+17 53.6	1.527	2.456	9.7	21.4
2 11	7 3.47	+18 42.9	1.614	2.477	13.7	21.7

201815 2003 YH_{15} 1 11.9 12°.53 4°.6/ 9.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.97	+30 34.3	1.980	2.757	14.9	19.9
12 13	7 54.71	+31 44.4	1.898	2.758	12.0	19.7
12 23	7 48.61	+32 57.0	1.838	2.760	8.7	19.5
1 2	7 40.18	+34 5.5	1.805	2.763	5.7	19.3
1 12	7 30.40	+35 2.9	1.799	2.766	4.7	19.3
1 22	7 20.51	+35 44.2	1.822	2.769	6.9	19.4
2 1	7 11.82	+36 7.5	1.872	2.772	10.1	19.6
2 11	7 5.41	+36 13.9	1.946	2.776	13.2	19.8

140002 2001 SF_{42} 1 11.9 191°.17 3°.5/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.83	+ 8 25.2	2.841	3.556	12.3	20.7
12 13	7 50.90	+ 8 19.1	2.739	3.555	10.1	20.5
12 23	7 45.23	+ 8 23.2	2.660	3.553	7.7	20.3
1 2	7 38.20	+ 8 37.8	2.607	3.551	5.2	20.2
1 12	7 30.41	+ 9 2.4	2.583	3.549	3.5	20.0
1 22	7 22.55	+ 9 35.3	2.590	3.546	4.4	20.1
2 1	7 15.33	+10 14.1	2.627	3.543	6.8	20.3
2 11	7 9.41	+10 56.3	2.692	3.540	9.4	20.4

80537 2000 AA_{75} 1 11.9 27°.88 3°.2/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 56.45	+13 42.3	1.088	1.890	23.0	18.6
12 13	7 54.82	+13 41.6	1.026	1.899	18.7	18.3
12 23	7 49.34	+14 0.0	0.980	1.910	13.5	18.0
1 2	7 40.72	+14 36.8	0.955	1.921	7.7	17.8
1 12	7 30.40	+15 27.7	0.953	1.933	3.2	17.5
1 22	7 20.19	+16 26.1	0.975	1.946	6.6	17.8
2 1	7 11.92	+17 25.2	1.021	1.960	12.1	18.1
2 11	7 6.90	+18 19.6	1.089	1.975	17.0	18.5

375765 2009 SV_{131} 1 11.9 210°.80 5°.6/ 9.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 5.16	+37 35.7	2.532	3.278	12.8	22.3
12 13	7 59.99	+38 35.5	2.436	3.271	10.6	22.1
12 23	7 52.07	+39 32.6	2.363	3.263	8.2	21.9
1 2	7 41.90	+40 20.5	2.317	3.255	6.2	21.8
1 12	7 30.40	+40 53.5	2.300	3.245	5.7	21.7
1 22	7 18.73	+41 7.7	2.313	3.236	7.2	21.8
2 1	7 8.15	+41 2.7	2.354	3.225	9.6	21.9
2 11	6 59.70	+40 41.0	2.420	3.214	12.0	22.1

249010 Abdel–Samad 1 11.9 140°.86 2°.2/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.30	+15 34.0	2.338	3.084	13.8	21.1
12 13	7 53.25	+15 14.6	2.245	3.086	11.2	20.9
12 23	7 47.05	+15 2.1	2.173	3.088	8.0	20.7
1 2	7 39.18	+14 56.2	2.129	3.090	4.7	20.5
1 12	7 30.41	+14 56.0	2.113	3.091	2.2	20.3
1 22	7 21.63	+15 0.3	2.127	3.093	4.2	20.5
2 1	7 13.75	+15 7.6	2.171	3.095	7.6	20.7
2 11	7 7.54	+15 16.7	2.241	3.096	10.7	20.9

111011 2001 VQ_5 1 11.9 248°.29 5°.1/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.12	+34 26.6	1.986	2.752	15.3	19.1
12 13	7 59.70	+35 4.4	1.894	2.745	12.5	18.9
12 23	7 52.14	+35 40.0	1.824	2.739	9.3	18.7
1 2	7 42.00	+36 6.7	1.779	2.732	6.3	18.5
1 12	7 30.41	+36 18.7	1.761	2.725	5.2	18.4
1 22	7 18.75	+36 12.3	1.773	2.717	7.2	18.5
2 1	7 8.49	+35 47.8	1.811	2.710	10.4	18.7
2 11	7 0.79	+35 8.6	1.874	2.703	13.7	18.9

334028 2000 XT_{37} 1 11.9 53°.48 7°.1/12.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 28.87	+40 33.7	0.837	1.637	28.5	19.3
12 13	8 22.57	+39 41.0	0.781	1.649	23.6	19.1
12 23	8 9.36	+38 26.2	0.738	1.661	17.7	18.8
1 2	7 50.84	+36 35.7	0.715	1.675	11.2	18.5
1 12	7 30.38	+34 4.2	0.715	1.689	7.1	18.3
1 22	7 11.82	+31 2.1	0.739	1.703	10.2	18.6
2 1	6 58.06	+27 50.7	0.787	1.717	16.1	18.9
2 11	6 50.28	+24 50.2	0.856	1.732	21.5	19.3

163757 2003 OJ_9 1 11.9 129°.04 5°.2/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 0.95	+ 7 30.0	1.972	2.696	16.7	20.3
12 13	7 56.40	+ 7 1.2	1.891	2.710	13.9	20.1
12 23	7 49.37	+ 6 46.3	1.830	2.723	10.6	20.0
1 2	7 40.41	+ 6 46.8	1.794	2.736	7.3	19.8
1 12	7 30.42	+ 7 2.4	1.786	2.748	5.2	19.7
1 22	7 20.49	+ 7 31.2	1.806	2.760	6.3	19.8
2 1	7 11.68	+ 8 10.0	1.855	2.771	9.2	20.0
2 11	7 4.87	+ 8 54.7	1.930	2.781	12.4	20.2

231011 2005 EJ_{47} 1 11.9 271°.25 0°.1/12.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.29	+20 34.8	2.430	3.185	13.1	21.5
12 13	7 53.45	+20 43.1	2.316	3.166	10.5	21.3
12 23	7 47.38	+20 56.7	2.224	3.146	7.4	21.1
1 2	7 39.46	+21 13.8	2.159	3.127	3.8	20.8
1 12	7 30.43	+21 32.1	2.124	3.107	0.1	20.4
1 22	7 21.18	+21 49.0	2.118	3.087	3.9	20.7
2 1	7 12.71	+22 2.8	2.143	3.067	7.7	20.9
2 11	7 5.88	+22 12.8	2.194	3.046	11.0	21.1

124264 2001 QL_{14} 1 11.9 110°.63 0°.4/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 6.65	+21 38.4	1.785	2.543	17.0	20.8
12 13	8 1.25	+21 53.8	1.715	2.566	13.5	20.6
12 23	7 52.87	+22 15.3	1.666	2.589	9.4	20.4
1 2	7 42.21	+22 39.3	1.643	2.611	4.8	20.2
1 12	7 30.43	+23 1.6	1.649	2.632	0.5	19.9
1 22	7 18.88	+23 18.9	1.684	2.652	4.8	20.3
2 1	7 8.87	+23 29.7	1.749	2.672	9.2	20.6
2 11	7 1.37	+23 34.3	1.839	2.691	12.9	20.8

301610 2010 DH_7 1 11.9 218°.98 0°.8/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 3.39	+22 3.1	1.966	2.724	15.6	22.7
12 13	7 58.90	+22 26.5	1.863	2.715	12.6	22.5
12 23	7 51.52	+22 56.7	1.782	2.705	8.8	22.2
1 2	7 41.71	+23 30.2	1.727	2.695	4.6	21.9
1 12	7 30.43	+24 2.7	1.701	2.684	0.8	21.6
1 22	7 18.90	+24 30.2	1.704	2.671	4.9	21.9
2 1	7 8.48	+24 50.1	1.737	2.659	9.3	22.1
2 11	7 0.29	+25 2.2	1.796	2.645	13.2	22.4

238532 2004 TJ_{281} 1 11.9 217°.46 3°.0/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.41	+27 42.5	1.818	2.587	16.4	21.4
12 13	8 0.06	+28 15.7	1.724	2.581	13.2	21.2
12 23	7 52.51	+28 52.0	1.651	2.575	9.4	21.0
1 2	7 42.27	+29 26.0	1.603	2.568	5.3	20.7
1 12	7 30.44	+29 51.8	1.583	2.561	3.1	20.6
1 22	7 18.45	+30 5.1	1.592	2.553	6.1	20.7
2 1	7 7.81	+30 4.4	1.629	2.544	10.3	20.9
2 11	6 59.76	+29 51.6	1.691	2.535	14.2	21.2

204465 2005 AX_{20} 1 11.9 44°.40 2°.3/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 57.91	+13 39.6	1.458	2.233	19.4	20.1
12 13	7 55.08	+13 57.0	1.383	2.241	15.8	19.9
12 23	7 49.07	+14 30.8	1.327	2.249	11.3	19.7
1 2	7 40.48	+15 19.4	1.294	2.258	6.4	19.4
1 12	7 30.44	+16 18.6	1.287	2.268	2.4	19.2
1 22	7 20.41	+17 22.4	1.307	2.277	5.5	19.4
2 1	7 11.83	+18 25.1	1.354	2.287	10.3	19.7
2 11	7 5.87	+19 22.5	1.425	2.297	14.6	20.0

381236 2007 TC_{33} 1 11.9 347°.30 4°.3/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	7 54.76	+ 9 27.6	2.243	2.979	14.6	20.9
12 13	7 51.36	+ 8 59.5	2.149	2.977	12.1	20.8
12 23	7 45.83	+ 8 42.1	2.075	2.975	9.2	20.6
1 2	7 38.61	+ 8 36.7	2.027	2.974	6.2	20.4
1 12	7 30.46	+ 8 43.2	2.006	2.973	4.3	20.3
1 22	7 22.25	+ 9 0.4	2.015	2.972	5.4	20.3
2 1	7 14.88	+ 9 26.2	2.052	2.971	8.2	20.5
2 11	7 9.16	+ 9 57.5	2.114	2.970	11.2	20.7

279214 2009 UV_{45} 1 11.9 152°.74 2°.3/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 0.13	+26 31.5	2.159	2.924	14.2	21.3
12 13	7 55.95	+27 5.3	2.071	2.927	11.3	21.1
12 23	7 49.20	+27 42.2	2.006	2.930	8.0	20.9
1 2	7 40.40	+28 17.9	1.967	2.933	4.4	20.7
1 12	7 30.46	+28 47.9	1.957	2.935	2.3	20.6
1 22	7 20.48	+29 8.8	1.976	2.937	5.0	20.7
2 1	7 11.60	+29 19.1	2.025	2.939	8.6	21.0
2 11	7 4.77	+29 19.5	2.099	2.941	11.9	21.2

98163 2000 SX_{82} 1 11.9 172°.15 3°.6/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 3	8 4.00	+28 17.5	1.845	2.614	16.1	20.1
12 13	7 59.65	+29 9.4	1.759	2.616	13.0	19.9
12 23	7 52.15	+30 5.0	1.695	2.618	9.2	19.7
1 2	7 42.05	+30 57.9	1.657	2.620	5.4	19.4
1 12	7 30.46	+31 41.3	1.647	2.621	3.7	19.3
1 22	7 18.77	+32 10.3	1.666	2.622	6.4	19.5
2 1	7 8.46	+32 23.1	1.713	2.622	10.3	19.7
2 11	7 0.70	+32 21.5	1.784	2.622	13.8	19.9

150342 1999 XJ_{89} 1 11.9 349.°48 2.°0/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.24	+19 15.7	1.212	2.011	21.3	19.3
12 13	7 56.98	+18 42.1	1.133	2.007	17.3	19.0
12 23	7 50.91	+18 16.0	1.071	2.003	12.3	18.7
1 2	7 41.61	+17 57.1	1.031	2.000	6.7	18.4
1 12	7 30.47	+17 43.8	1.015	1.998	2.0	18.1
1 22	7 19.27	+17 34.4	1.025	1.996	6.4	18.3
2 1	7 9.87	+17 27.7	1.059	1.995	12.1	18.7
2 11	7 3.70	+17 22.7	1.114	1.995	17.1	18.9

236077 2005 JM_{148} 1 11.9 279.°18 6.°3/14.4 18

12 3	7 54.73	+ 2 30.1	2.466	3.166	14.3	20.7
12 13	7 51.29	+ 1 52.4	2.349	3.144	12.3	20.5
12 23	7 45.81	+ 1 27.7	2.253	3.122	10.0	20.3
1 2	7 38.67	+ 1 18.6	2.181	3.100	7.7	20.1
1 12	7 30.48	+ 1 26.5	2.136	3.077	6.4	20.0
1 22	7 22.06	+ 1 51.1	2.119	3.054	6.9	20.0
2 1	7 14.26	+ 2 30.4	2.131	3.031	9.0	20.1
2 11	7 7.90	+ 3 20.9	2.168	3.008	11.6	20.2

465167 2007 EE_{14} 1 11.9 342.°07 1.°7/12.6 18

12 3	7 49.77	+15 26.9	1.289	2.093	20.0	20.4
12 13	7 49.35	+15 44.4	1.198	2.075	16.3	20.1
12 23	7 45.62	+16 19.3	1.125	2.058	11.8	19.7
1 2	7 38.97	+17 10.8	1.073	2.042	6.5	19.4
1 12	7 30.48	+18 14.6	1.046	2.028	1.7	19.0
1 22	7 21.62	+19 24.4	1.043	2.016	5.9	19.3
2 1	7 14.09	+20 33.0	1.065	2.006	11.5	19.6
2 11	7 9.35	+21 34.7	1.109	1.997	16.6	19.8

204304 2004 PW_{90} 1 11.9 58.°31 1.°7/12.5 18

12 3	8 2.77	+16 59.5	1.334	2.115	20.6	20.1
12 13	7 58.91	+16 58.4	1.278	2.141	16.5	19.9
12 23	7 51.60	+17 9.6	1.240	2.166	11.6	19.7
1 2	7 41.66	+17 30.6	1.225	2.192	6.2	19.4
1 12	7 30.48	+17 57.7	1.237	2.219	1.7	19.2
1 22	7 19.66	+18 26.4	1.275	2.245	5.6	19.5
2 1	7 10.72	+18 53.5	1.339	2.271	10.5	19.9
2 11	7 4.70	+19 16.9	1.427	2.297	14.7	20.2

207057 2004 XF_{74} 1 11.9 357.°43 2.°5/12.3 18

12 3	7 58.59	+19 14.2	1.266	2.063	20.7	19.5
12 13	7 56.24	+18 26.1	1.187	2.059	16.8	19.2
12 23	7 50.23	+17 43.9	1.126	2.057	12.0	18.9
1 2	7 41.21	+17 7.8	1.088	2.055	6.7	18.6
1 12	7 30.51	+16 37.7	1.074	2.055	2.5	18.4
1 22	7 19.83	+16 13.2	1.085	2.055	6.3	18.6
2 1	7 10.89	+15 54.0	1.121	2.057	11.7	18.9
2 11	7 4.99	+15 39.6	1.179	2.059	16.5	19.2

44767 1999 TK_{124} 1 11.9 65.°17 1.°4/12.4 18

12 3	8 2.11	+16 44.1	1.269	2.055	21.2	18.9
12 13	7 58.78	+16 57.0	1.206	2.072	17.1	18.7
12 23	7 51.80	+17 24.1	1.161	2.089	12.0	18.5
1 2	7 41.91	+18 2.7	1.139	2.107	6.4	18.2
1 12	7 30.51	+18 47.6	1.142	2.125	1.4	17.9
1 22	7 19.33	+19 32.9	1.172	2.143	5.8	18.3
2 1	7 10.02	+20 14.1	1.227	2.160	11.1	18.6
2 11	7 3.80	+20 48.8	1.305	2.178	15.7	18.9

312280 2008 AR_{127} 1 11.9 9.°25 0.°8/12.2 18

12 3	7 58.01	+18 54.0	1.527	2.310	18.4	21.3
12 13	7 55.16	+18 56.4	1.445	2.310	14.8	21.0
12 23	7 49.16	+19 8.3	1.383	2.311	10.4	20.8
1 2	7 40.56	+19 27.7	1.344	2.313	5.5	20.5
1 12	7 30.51	+19 51.1	1.332	2.315	0.8	20.2
1 22	7 20.43	+20 14.7	1.347	2.318	5.2	20.5
2 1	7 11.76	+20 35.8	1.388	2.320	10.2	20.8
2 11	7 5.69	+20 52.7	1.453	2.324	14.5	21.1

377189 2003 UZ_{343} 1 11.9 146.°35 5.°0/14.3 18

12 3	7 56.10	+ 5 2.1	2.470	3.178	14.1	22.1
12 13	7 52.14	+ 4 40.6	2.379	3.184	11.8	21.9
12 23	7 46.22	+ 4 32.1	2.309	3.190	9.2	21.8
1 2	7 38.79	+ 4 37.8	2.264	3.196	6.7	21.6
1 12	7 30.53	+ 4 57.8	2.247	3.201	5.1	21.5
1 22	7 22.24	+ 5 30.4	2.259	3.206	5.7	21.6
2 1	7 14.74	+ 6 13.0	2.301	3.210	8.0	21.7
2 11	7 8.73	+ 7 2.0	2.369	3.215	10.6	21.9

399525 2002 YU_{27} 1 11.9 31.°82 1.°5/12.1 17 R

12 3	8 3.81	+22 15.4	1.290	2.081	20.7	19.8
12 13	7 59.86	+21 13.4	1.230	2.099	16.5	19.5
12 23	7 52.30	+20 14.1	1.188	2.118	11.6	19.3
1 2	7 42.01	+19 17.4	1.170	2.139	6.1	19.1
1 12	7 30.52	+18 23.7	1.178	2.160	1.6	18.8
1 22	7 19.54	+17 34.1	1.212	2.182	5.8	19.2
2 1	7 10.60	+16 50.0	1.273	2.206	10.9	19.5
2 11	7 4.73	+16 12.3	1.356	2.229	15.2	19.8

280516 2004 PW_{69} 1 11.9 151.°11 2.°2/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 2.66	+15 9.9	1.880	2.629	16.6	21.8
12 13	7 58.07	+15 3.6	1.795	2.637	13.4	21.6
12 23	7 50.74	+15 7.3	1.730	2.645	9.7	21.3
1 2	7 41.23	+15 20.1	1.690	2.652	5.5	21.1
1 12	7 30.53	+15 39.8	1.678	2.658	2.3	20.9
1 22	7 19.84	+16 3.8	1.697	2.664	4.9	21.1
2 1	7 10.36	+16 29.4	1.744	2.669	9.0	21.3
2 11	7 3.08	+16 54.5	1.816	2.674	12.7	21.6

118030 2325 $T\text{-}_2$ 1 11.9 112.°78 2.°6/12.9 18

12 3	7 59.23	+13 45.0	1.886	2.638	16.4	20.0
12 13	7 55.33	+13 40.8	1.802	2.646	13.3	19.8
12 23	7 48.81	+13 47.8	1.739	2.654	9.7	19.6
1 2	7 40.24	+14 5.6	1.701	2.662	5.7	19.3
1 12	7 30.53	+14 32.0	1.691	2.670	2.7	19.2
1 22	7 20.84	+15 4.2	1.710	2.677	4.9	19.3
2 1	7 12.29	+15 38.9	1.757	2.684	8.8	19.6
2 11	7 5.82	+16 13.5	1.830	2.691	12.5	19.8

16920 Larrywalker 1 11.9 150.°96 1.°7/12.7 18

12 3	7 57.72	+15 28.4	2.061	2.814	15.2	18.5
12 13	7 54.00	+15 37.4	1.970	2.816	12.3	18.3
12 23	7 47.84	+15 56.4	1.900	2.818	8.8	18.0
1 2	7 39.74	+16 24.2	1.856	2.820	4.9	17.8
1 12	7 30.54	+16 58.1	1.841	2.822	1.7	17.6
1 22	7 21.27	+17 35.1	1.854	2.823	4.3	17.8
2 1	7 13.00	+18 12.1	1.897	2.825	8.2	18.0
2 11	7 6.62	+18 46.7	1.966	2.826	11.8	18.2

206893 2004 HZ_6 1 11.9 303.°16 1.°8/12.8 18

12 3	7 54.61	+15 9.3	2.284	3.036	13.9	20.6
12 13	7 51.40	+15 12.2	2.178	3.024	11.3	20.4
12 23	7 45.99	+15 24.2	2.095	3.012	8.1	20.2
1 2	7 38.81	+15 44.5	2.037	3.000	4.6	19.9
1 12	7 30.57	+16 11.3	2.008	2.988	1.8	19.7
1 22	7 22.16	+16 42.2	2.008	2.977	4.1	19.9
2 1	7 14.55	+17 14.6	2.038	2.965	7.8	20.1
2 11	7 8.59	+17 46.3	2.093	2.954	11.1	20.2

77868 2001 RY_{154} 1 11.9 3.°54 4.°0/14.0 18

12 3	7 53.82	+ 7 44.1	2.120	2.855	15.3	18.9
12 13	7 50.81	+ 7 51.1	2.027	2.855	12.7	18.7
12 23	7 45.58	+ 8 13.3	1.955	2.855	9.6	18.5
1 2	7 38.58	+ 8 51.1	1.908	2.856	6.4	18.3
1 12	7 30.57	+ 9 42.8	1.888	2.857	4.1	18.1
1 22	7 22.46	+10 45.3	1.897	2.858	5.2	18.2
2 1	7 15.22	+11 54.0	1.935	2.859	8.3	18.4
2 11	7 9.68	+13 4.5	1.999	2.861	11.5	18.6

79527 1998 OL_{14} 1 12.0 234.°19 2.°6/11.3 18

12 13	8 1.27	+27 16.0	1.616	2.475	13.8	19.4
12 23	7 53.55	+27 41.7	1.539	2.464	9.8	19.1
1 2	7 42.94	+28 5.6	1.487	2.454	5.4	18.9
1 12	7 30.59	+28 22.0	1.463	2.442	2.6	18.6
1 22	7 18.02	+28 26.7	1.467	2.430	6.1	18.8
2 1	7 6.87	+28 18.5	1.499	2.418	10.7	19.1
2 11	6 58.46	+27 59.6	1.555	2.405	14.9	19.3
2 21	6 53.51	+27 33.0	1.631	2.391	18.4	19.5

157992 2000 KP_{52} 1 12.0 229.°38 2.°8/12.9 18

12 13	7 57.20	+13 46.3	1.718	2.562	13.9	21.2
12 23	7 50.41	+13 49.7	1.638	2.552	10.2	21.0
1 2	7 41.23	+14 4.3	1.582	2.543	6.0	20.7
1 12	7 30.59	+14 28.4	1.554	2.533	2.8	20.5
1 22	7 19.71	+14 59.1	1.555	2.522	5.3	20.6
2 1	7 9.92	+15 33.3	1.584	2.511	9.6	20.8
2 11	7 2.35	+16 8.0	1.638	2.499	13.7	21.0
2 21	6 57.67	+16 41.0	1.713	2.487	17.2	21.3

14019 Pourbus 1 12.0 208.°39 0.°2/12.1 18

12 13	7 58.55	+19 52.6	1.685	2.539	13.6	19.5
12 23	7 51.40	+20 13.9	1.611	2.535	9.6	19.3
1 2	7 41.75	+20 41.0	1.562	2.530	5.0	19.0
1 12	7 30.60	+21 10.2	1.542	2.525	0.2	18.6
1 22	7 19.29	+21 37.5	1.550	2.519	5.0	19.0
2 1	7 9.21	+22 0.3	1.587	2.513	9.6	19.2
2 11	7 1.54	+22 17.4	1.648	2.506	13.8	19.5
2 21	6 56.91	+22 28.8	1.731	2.499	17.2	19.7

521021 2015 CS_{68} 1 12.0 328.°21 3.°6/13.7 18

12 13	7 51.01	+ 9 28.1	2.217	3.046	11.7	21.4
12 23	7 45.62	+ 9 33.8	2.141	3.043	8.8	21.2
1 2	7 38.59	+ 9 51.7	2.091	3.041	5.8	21.0
1 12	7 30.61	+10 20.9	2.068	3.038	3.7	20.8
1 22	7 22.54	+10 59.3	2.075	3.036	4.9	20.9
2 1	7 15.27	+11 43.9	2.111	3.034	7.8	21.1
2 11	7 9.58	+12 31.3	2.173	3.032	10.9	21.3
2 21	7 5.97	+13 18.6	2.259	3.030	13.6	21.5