11576 1994 *CL* 1 16.9 229°.98 5°.7/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 26.13	+34 27.0	1.864	2.676	14.3	17.7
12 23	8 19.74	+35 13.3	1.781	2.667	11.3	17.5
1 2	8 10.22	+35 54.8	1.722	2.658	8.0	17.3
1 12	7 58.44	+36 23.9	1.689	2.649	5.8	17.1
1 22	7 45.74	+36 34.3	1.685	2.640	6.5	17.1
2 1	7 33.72	+36 23.3	1.709	2.629	9.5	17.3
2 11	7 23.86	+35 52.7	1.758	2.619	12.9	17.5
2 21	7 17.10	+35 7.2	1.830	2.608	16.1	17.7

30879 Hiroshikanai 1 16.9 247°.36 6°.2/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.46	+34 4.9	1.953	2.768	13.6	17.8
12 23	8 17.05	+35 34.7	1.870	2.757	10.7	17.6
1 2	8 8.63	+37 3.3	1.812	2.747	7.9	17.4
1 12	7 57.95	+38 21.5	1.782	2.736	6.2	17.3
1 22	7 46.17	+39 21.4	1.780	2.724	7.2	17.4
2 1	7 34.81	+39 58.0	1.806	2.713	10.0	17.5
2 11	7 25.34	+40 11.0	1.856	2.701	13.1	17.7
2 21	7 18.77	+40 3.8	1.928	2.689	16.0	17.8

90130 2002 XK_{82} 1 16.9 345°.34 4°.8/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.36	+27 4.1	1.567	2.401	15.5	18.9
12 23	8 14.26	+28 47.8	1.493	2.397	11.8	18.7
1 2	8 7.03	+30 38.1	1.443	2.393	7.9	18.4
1 12	7 57.42	+32 24.7	1.419	2.390	5.0	18.3
1 22	7 46.71	+33 57.5	1.423	2.387	6.2	18.3
2 1	7 36.51	+35 8.6	1.455	2.385	10.0	18.5
2 11	7 28.39	+35 55.5	1.510	2.383	14.0	18.8
2 21	7 23.38	+36 20.0	1.587	2.381	17.4	19.0

131643 2001 XS_{85} 1 16.9 17°.16 0°.9/17.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.85	+16 58.1	1.067	1.915	20.1	19.4
12 23	8 12.82	+17 18.7	1.010	1.921	15.3	19.1
1 2	8 6.21	+17 54.9	0.972	1.928	9.7	18.8
1 12	7 57.12	+18 41.8	0.957	1.936	3.5	18.5
1 22	7 47.14	+19 32.6	0.965	1.946	3.1	18.5
2 1	7 38.15	+20 20.3	0.998	1.957	9.1	18.9
2 11	7 31.81	+20 59.8	1.053	1.969	14.5	19.2
2 21	7 29.01	+21 29.1	1.127	1.983	19.1	19.5

100330 1995 QY_{8} 1 16.9 337°.40 4°.0/19.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.18	+ 7 25.8	2.249	3.026	13.3	20.2
12 23	8 9.86	+ 7 23.6	2.162	3.025	10.6	20.0
1 2	8 3.65	+ 7 35.2	2.099	3.023	7.6	19.9
1 12	7 56.14	+ 8 0.3	2.061	3.022	4.9	19.7
1 22	7 48.09	+ 8 37.3	2.053	3.020	4.2	19.6
2 1	7 40.39	+ 9 23.0	2.074	3.019	6.4	19.8
2 11	7 33.91	+10 13.8	2.122	3.018	9.4	20.0
2 21	7 29.26	+11 5.7	2.196	3.017	12.3	20.1

313793 2003 YD_{154} 1 16.9 352°.83 8°.2/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.23	+35 6.3	1.495	2.327	16.2	19.5
12 23	8 16.86	+37 2.9	1.430	2.325	12.9	19.3
1 2	8 8.85	+38 57.1	1.388	2.323	9.8	19.1
1 12	7 58.09	+40 36.5	1.372	2.321	8.2	19.0
1 22	7 46.09	+41 49.9	1.381	2.320	9.4	19.1
2 1	7 34.79	+42 31.4	1.416	2.320	12.4	19.2
2 11	7 26.02	+42 41.8	1.473	2.319	15.8	19.4
2 21	7 20.89	+42 26.7	1.548	2.320	18.8	19.6

381928 2010 CW_{143} 1 16.9 333°.98 1°.8/16.3 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.44	+23 39.3	1.652	2.484	14.9	20.8
12 23	8 11.77	+24 6.9	1.563	2.467	11.3	20.5
1 2	8 5.32	+24 39.7	1.497	2.451	7.1	20.2
1 12	7 56.81	+25 13.0	1.457	2.436	2.8	19.9
1 22	7 47.38	+25 41.6	1.444	2.421	3.4	19.9
2 1	7 38.41	+26 1.4	1.458	2.408	7.9	20.2
2 11	7 31.25	+26 10.6	1.497	2.395	12.4	20.4
2 21	7 26.83	+26 9.4	1.557	2.384	16.2	20.6

239720 2009 BP_{35} 1 16.9 180°.23 0°.9/16.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.24	+22 51.8	2.921	3.722	10.0	21.4
12 23	8 11.06	+23 17.3	2.835	3.723	7.5	21.3
1 2	8 4.24	+23 45.4	2.775	3.723	4.6	21.1
1 12	7 56.31	+24 13.3	2.745	3.723	1.7	20.9
1 22	7 47.95	+24 38.5	2.745	3.723	2.0	20.9
2 1	7 39.93	+24 58.7	2.778	3.723	5.0	21.1
2 11	7 32.95	+25 12.9	2.839	3.722	7.8	21.3
2 21	7 27.58	+25 20.8	2.926	3.720	10.2	21.4

204330 2004 RC_{183} 1 16.9 52°.13 3°.5/18.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.88	+12 40.7	1.352	2.169	18.5	20.1
12 23	8 15.11	+12 27.3	1.289	2.179	14.3	19.9
1 2	8 7.30	+12 29.1	1.247	2.191	9.6	19.6
1 12	7 57.43	+12 45.0	1.229	2.202	4.9	19.4
1 22	7 46.87	+13 11.9	1.237	2.214	4.1	19.4
2 1	7 37.17	+13 45.3	1.271	2.226	8.3	19.6
2 11	7 29.70	+14 20.7	1.330	2.238	12.9	19.9
2 21	7 25.27	+14 54.4	1.411	2.250	16.9	20.2

419997 2011 CX_{38} 1 16.9 97°.46 1°.4/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 19.26	+22 51.9	1.979	2.794	13.5	21.9
12 23	8 13.96	+23 25.1	1.908	2.803	10.1	21.7
1 2	8 6.30	+24 2.6	1.861	2.812	6.3	21.5
1 12	7 57.05	+24 39.9	1.841	2.820	2.3	21.2
1 22	7 47.23	+25 12.5	1.851	2.829	2.8	21.3
2 1	7 38.01	+25 37.3	1.891	2.838	6.7	21.6
2 11	7 30.44	+25 52.8	1.957	2.846	10.4	21.8
2 21	7 25.23	+25 59.4	2.047	2.855	13.6	22.0

182595 2001 UH_{18} 1 16.9 75°.71 2°.8/18.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.70	+12 4.8	1.796	2.592	15.4	20.1
12 23	8 14.18	+12 6.3	1.737	2.616	11.9	19.9
1 2	8 6.34	+12 20.7	1.701	2.640	7.9	19.7
1 12	7 57.03	+12 46.0	1.691	2.663	4.0	19.5
1 22	7 47.30	+13 19.0	1.710	2.687	3.3	19.5
2 1	7 38.30	+13 56.2	1.758	2.710	6.7	19.8
2 11	7 31.05	+14 33.8	1.833	2.733	10.4	20.1
2 21	7 26.18	+15 9.1	1.932	2.755	13.6	20.3

298882 2004 SJ_{39} 1 17.0 159°.40 4°.3/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 26.27	+31 2.0	2.006	2.814	13.6	21.1
12 23	8 19.41	+31 55.7	1.935	2.822	10.4	21.0
1 2	8 9.78	+32 47.3	1.888	2.829	7.1	20.8
1 12	7 58.25	+33 29.9	1.869	2.836	4.5	20.6
1 22	7 46.03	+33 57.8	1.880	2.841	5.2	20.7
2 1	7 34.52	+34 8.2	1.921	2.846	8.3	20.9
2 11	7 24.96	+34 1.9	1.988	2.850	11.6	21.1
2 21	7 18.17	+33 42.0	2.078	2.854	14.5	21.3

274652 2008 TB_{151} 1 17.0 157°.48 1°.0/17.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.10	+16 6.7	2.349	3.146	12.2	21.6
12 23	8 11.98	+16 22.7	2.267	3.150	9.3	21.4
1 2	8 4.93	+16 46.6	2.209	3.153	5.9	21.2
1 12	7 56.57	+17 16.1	2.179	3.157	2.4	21.0
1 22	7 47.71	+17 48.3	2.180	3.160	2.0	20.9
2 1	7 39.25	+18 20.5	2.211	3.163	5.5	21.2
2 11	7 32.08	+18 50.2	2.271	3.165	8.9	21.4
2 21	7 26.79	+19 15.8	2.356	3.168	11.9	21.6

336516 2008 XT_{47} 1 17.0 73°.33 0°.4/16.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.49	+20 2.5	2.166	2.974	12.7	20.9
12 23	8 12.34	+20 34.7	2.102	2.994	9.5	20.7
1 2	8 5.15	+21 12.6	2.063	3.013	5.9	20.5
1 12	7 56.63	+21 52.4	2.052	3.032	2.0	20.3
1 22	7 47.70	+22 30.5	2.071	3.050	2.1	20.3
2 1	7 39.33	+23 3.6	2.120	3.069	5.9	20.6
2 11	7 32.43	+23 29.8	2.196	3.088	9.3	20.9
2 21	7 27.60	+23 48.6	2.297	3.107	12.2	21.1

32020 2000 HZ_{87} 1 17.0 74°.23 6°.9/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.29	+35 10.8	1.710	2.529	15.1	17.6
12 23	8 18.40	+36 43.7	1.660	2.548	11.8	17.5
1 2	8 9.35	+38 10.8	1.634	2.567	8.7	17.3
1 12	7 58.13	+39 22.3	1.635	2.586	6.9	17.2
1 22	7 46.21	+40 10.6	1.663	2.606	7.8	17.3
2 1	7 35.23	+40 32.6	1.718	2.625	10.4	17.5
2 11	7 26.60	+40 30.3	1.798	2.644	13.4	17.8
2 21	7 21.17	+40 8.8	1.898	2.662	16.0	18.0

317597 2002 XO_{42} 1 17.0 59°.73 1°.0/16.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 26.61	+22 26.6	1.495	2.313	17.0	20.6
12 23	8 19.55	+22 42.8	1.458	2.353	12.6	20.4
1 2	8 9.65	+23 2.8	1.442	2.394	7.7	20.2
1 12	7 58.11	+23 21.7	1.454	2.433	2.6	20.0
1 22	7 46.38	+23 35.2	1.494	2.473	2.9	20.1
2 1	7 35.93	+23 41.0	1.562	2.512	7.5	20.5
2 11	7 27.92	+23 39.1	1.656	2.551	11.6	20.8
2 21	7 22.91	+23 30.7	1.773	2.589	15.0	21.1

290969 2005 XU_{6} 1 17.0 216°.80 0°.1/17.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.77	+19 2.5	1.887	2.691	14.5	22.1
12 23	8 16.89	+19 23.2	1.794	2.683	11.0	21.9
1 2	8 8.35	+19 51.7	1.726	2.674	7.0	21.6
1 12	7 57.84	+20 24.5	1.684	2.664	2.4	21.3
1 22	7 46.45	+20 57.3	1.673	2.653	2.4	21.3
2 1	7 35.48	+21 26.3	1.691	2.641	7.0	21.6
2 11	7 26.20	+21 49.2	1.737	2.629	11.3	21.8
2 21	7 19.50	+22 5.1	1.806	2.616	15.0	22.0

62389 2000 SE_{165} 1 17.0 309°.57 5°.6/18.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.11	+ 8 39.0	1.775	2.564	15.9	18.0
12 23	8 13.36	+ 7 43.4	1.685	2.553	12.8	17.7
1 2	8 6.11	+ 6 59.8	1.616	2.542	9.4	17.5
1 12	7 57.07	+ 6 30.3	1.573	2.532	6.4	17.3
1 22	7 47.24	+ 6 15.8	1.558	2.521	5.8	17.2
2 1	7 37.84	+ 6 15.5	1.570	2.511	8.4	17.4
2 11	7 30.03	+ 6 26.8	1.608	2.501	12.0	17.5
2 21	7 24.65	+ 6 46.1	1.668	2.492	15.4	17.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
41073 1999 VG_{39}			1 17.0 126°.24		1°.5/17.7 18	
	h m	° ′			°	m
12 13	8 17.96	+15 32.0	2.240	3.036	12.8	19.7
12 23	8 12.65	+15 32.6	2.162	3.044	9.8	19.5
1 2	8 5.35	+15 41.0	2.109	3.052	6.3	19.3
1 12	7 56.73	+15 55.6	2.083	3.059	2.7	19.1
1 22	7 47.64	+16 14.0	2.088	3.067	2.3	19.1
2 1	7 39.03	+16 33.8	2.122	3.074	5.7	19.3
2 11	7 31.79	+16 53.0	2.185	3.081	9.2	19.6
2 21	7 26.53	+17 10.0	2.273	3.087	12.1	19.8
499400 2010 BZ_{58}			1 17.0 251°.46		4°.6/19.7 17	
12 13	8 14.15	+ 3 49.3	2.755	3.505	11.8	22.0
12 23	8 9.61	+ 3 43.5	2.649	3.489	9.6	21.9
1 2	8 3.44	+ 3 50.9	2.566	3.473	7.3	21.7
1 12	7 56.10	+ 4 12.1	2.511	3.457	5.2	21.5
1 22	7 48.22	+ 4 46.2	2.485	3.440	4.6	21.5
2 1	7 40.54	+ 5 31.0	2.489	3.423	6.1	21.5
2 11	7 33.79	+ 6 23.4	2.521	3.406	8.6	21.7
2 21	7 28.54	+ 7 19.7	2.579	3.388	11.0	21.8
500414 2012 TB_{115}			1 17.0 301°.53		7°.8/13.2 18	
12 13	8 23.71	+43 4.0	2.215	3.011	12.9	20.8
12 23	8 17.84	+44 0.2	2.131	2.994	10.7	20.6
1 2	8 9.02	+44 46.5	2.070	2.977	8.8	20.4
1 12	7 58.07	+45 15.2	2.036	2.961	7.8	20.4
1 22	7 46.26	+45 20.8	2.029	2.945	8.4	20.4
2 1	7 35.07	+45 1.0	2.048	2.928	10.4	20.5
2 11	7 25.89	+44 18.0	2.092	2.912	12.7	20.6
2 21	7 19.62	+43 17.1	2.157	2.896	15.1	20.7
456653 2007 RB_{21}			1 17.0 101°.66		0°.5/17.2 17	
12 13	8 22.65	+17 45.4	1.730	2.537	15.5	22.4
12 23	8 16.59	+18 6.5	1.668	2.557	11.7	22.2
1 2	8 7.96	+18 36.3	1.629	2.577	7.3	21.9
1 12	7 57.63	+19 11.0	1.618	2.597	2.6	21.7
1 22	7 46.79	+19 46.2	1.635	2.616	2.4	21.7
2 1	7 36.75	+20 18.2	1.682	2.634	6.9	22.0
2 11	7 28.64	+20 44.4	1.756	2.652	11.0	22.3
2 21	7 23.16	+21 4.0	1.853	2.670	14.4	22.6
76280 2000 EK_{117}			1 17.0 62°.64		2°.2/15.8 18	
12 13	8 19.42	+21 6.1	1.615	2.438	15.6	18.4
12 23	8 14.70	+22 35.2	1.547	2.446	11.7	18.2
1 2	8 7.10	+24 14.7	1.502	2.455	7.3	18.0
1 12	7 57.43	+25 56.7	1.484	2.463	2.9	17.7
1 22	7 46.91	+27 31.9	1.496	2.471	3.9	17.8
2 1	7 36.99	+28 52.8	1.536	2.480	8.3	18.1
2 11	7 29.03	+29 55.7	1.602	2.488	12.5	18.3
2 21	7 23.92	+30 40.2	1.690	2.497	16.0	18.6
14299 3162 T_{-2}			1 17.0 69°.60		6°.8/20.7 18	
12 13	8 17.88	+ 1 28.2	1.661	2.427	17.7	17.5
12 23	8 13.02	+ 1 24.3	1.600	2.447	14.5	17.3
1 2	8 5.75	+ 1 43.9	1.559	2.467	11.0	17.1
1 12	7 56.89	+ 2 27.4	1.542	2.487	7.9	17.0
1 22	7 47.52	+ 3 31.9	1.551	2.507	6.8	17.0
2 1	7 38.84	+ 4 51.6	1.589	2.527	8.6	17.1
2 11	7 31.91	+ 6 19.3	1.652	2.547	11.6	17.3
2 21	7 27.42	+ 7 47.9	1.740	2.567	14.7	17.6
359124 2009 BC_{54}			1 17.0 56°.65		1°.0/16.6 17	
12 13	8 21.76	+20 27.5	1.317	2.148	18.0	21.0
12 23	8 16.60	+21 8.0	1.267	2.170	13.5	20.8
1 2	8 8.23	+21 57.3	1.238	2.191	8.3	20.5
1 12	7 57.76	+22 49.0	1.233	2.213	2.8	20.3
1 22	7 46.70	+23 36.0	1.256	2.236	3.2	20.4
2 1	7 36.72	+24 13.4	1.305	2.258	8.4	20.7
2 11	7 29.20	+24 38.9	1.380	2.281	13.0	21.1
2 21	7 24.92	+24 52.9	1.475	2.303	16.8	21.4
421353 2013 TD_{105}			1 17.0 172°.18		5°.6/19.7 18	
12 13	8 15.66	+ 4 2.0	2.184	2.946	14.1	21.3
12 23	8 11.00	+ 3 33.7	2.100	2.946	11.6	21.2
1 2	8 4.39	+ 3 20.5	2.038	2.947	8.8	21.0
1 12	7 56.44	+ 3 23.6	2.001	2.947	6.4	20.8
1 22	7 47.94	+ 3 42.5	1.993	2.947	5.7	20.8
2 1	7 39.83	+ 4 15.0	2.013	2.947	7.4	20.9
2 11	7 32.99	+ 4 57.5	2.060	2.947	10.1	21.1
2 21	7 28.06	+ 5 45.6	2.132	2.947	12.8	21.2
14832 Alechinsky			1 17.0 74°.50		0°.9/16.8 18	R
12 13	8 24.96	+22 48.0	1.382	2.208	17.6	17.5
12 23	8 18.96	+22 49.5	1.322	2.222	13.3	17.3
1 2	8 9.69	+22 55.0	1.284	2.237	8.3	17.1
1 12	7 58.27	+22 59.9	1.271	2.251	2.8	16.8
1 22	7 46.24	+23 0.3	1.285	2.265	3.1	16.8
2 1	7 35.30	+22 53.9	1.327	2.279	8.3	17.2
2 11	7 26.87	+22 40.8	1.393	2.293	13.0	17.5
2 21	7 21.74	+22 22.3	1.481	2.307	16.9	17.8

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
32751 1981 EB_{12}			1 17.0 260°.65		1°.5/17.7 18	
	h m	° ′			°	m
12 13	8 15.89	+15 53.0	2.485	3.281	11.7	19.5
12 23	8 11.05	+15 48.5	2.392	3.273	8.9	19.3
1 2	8 4.38	+15 50.7	2.323	3.266	5.8	19.1
1 12	7 56.44	+15 58.2	2.283	3.258	2.5	18.8
1 22	7 47.98	+16 9.3	2.272	3.251	2.1	18.8
2 1	7 39.86	+16 22.2	2.292	3.243	5.4	19.0
2 11	7 32.89	+16 35.1	2.340	3.235	8.6	19.2
2 21	7 27.69	+16 46.7	2.413	3.228	11.5	19.4
288897 2004 RJ_{306}			1 17.0 85°.35		1°.6/17.7 18	
12 13	8 20.92	+14 23.7	1.516	2.328	17.1	20.4
12 23	8 15.65	+14 50.7	1.454	2.344	13.0	20.2
1 2	8 7.57	+15 31.7	1.413	2.360	8.4	20.0
1 12	7 57.57	+16 23.1	1.398	2.375	3.5	19.7
1 22	7 46.93	+17 19.3	1.411	2.391	2.8	19.7
2 1	7 37.09	+18 14.7	1.452	2.407	7.5	20.1
2 11	7 29.31	+19 4.8	1.519	2.422	11.9	20.4
2 21	7 24.38	+19 47.1	1.609	2.437	15.7	20.6
362075 2009 BE_{91}			1 17.0 26°.73		0°.3/16.9 18	
12 13	8 19.22	+20 43.2	1.130	1.976	19.4	20.7
12 23	8 15.18	+20 49.2	1.076	1.986	14.7	20.5
1 2	8 7.59	+21 3.7	1.042	1.998	9.1	20.2
1 12	7 57.61	+21 21.9	1.031	2.011	3.1	19.9
1 22	7 46.92	+21 38.5	1.044	2.025	3.1	19.9
2 1	7 37.36	+21 49.8	1.083	2.040	9.0	20.3
2 11	7 30.50	+21 53.9	1.144	2.056	14.1	20.7
2 21	7 27.13	+21 50.9	1.225	2.073	18.4	21.0
444238 2005 UR_{125}			1 17.0 136°.24		1°.9/17.8 18	
12 13	8 23.73	+14 58.7	1.760	2.558	15.6	22.2
12 23	8 17.43	+14 59.7	1.689	2.571	12.0	22.0
1 2	8 8.53	+15 11.1	1.641	2.584	7.8	21.8
1 12	7 57.87	+15 30.6	1.620	2.596	3.4	21.6
1 22	7 46.63	+15 55.0	1.629	2.607	2.8	21.5
2 1	7 36.10	+16 21.0	1.666	2.618	7.0	21.8
2 11	7 27.45	+16 45.7	1.731	2.628	11.1	22.1
2 21	7 21.42	+17 7.5	1.820	2.637	14.6	22.3
311656 2006 RE_{89}			1 17.0 275°.55		1°.0/17.4 18	
12 13	8 19.32	+17 35.9	1.737	2.550	15.2	20.7
12 23	8 14.46	+17 39.3	1.648	2.540	11.6	20.4
1 2	8 6.90	+17 51.3	1.581	2.530	7.4	20.1
1 12	7 57.40	+18 9.6	1.541	2.519	2.8	19.8
1 22	7 47.03	+18 30.8	1.529	2.509	2.5	19.8
2 1	7 37.13	+18 51.7	1.545	2.499	7.2	20.1
2 11	7 28.96	+19 9.6	1.588	2.488	11.6	20.3
2 21	7 23.40	+19 23.2	1.653	2.478	15.5	20.5
119190 2001 QC_{104}			1 17.0 47°.14		0°.8/16.8 17	
12 13	8 23.11	+21 18.2	1.122	1.963	19.9	18.9
12 23	8 17.94	+21 35.7	1.078	1.986	14.9	18.7
1 2	8 9.17	+22 1.1	1.054	2.009	9.2	18.4
1 12	7 58.10	+22 28.2	1.054	2.034	3.1	18.2
1 22	7 46.52	+22 50.9	1.078	2.059	3.3	18.3
2 1	7 36.30	+23 5.5	1.129	2.084	9.0	18.7
2 11	7 28.96	+23 10.7	1.202	2.110	14.0	19.0
2 21	7 25.19	+23 7.6	1.296	2.136	18.1	19.3
464182 2015 AL_{207}			1 17.0 99°.86		0°.1/16.9 18	
12 13	8 19.59	+18 39.9	2.000	2.806	13.7	21.4
12 23	8 14.11	+19 16.4	1.933	2.823	10.3	21.2
1 2	8 6.37	+20 0.6	1.891	2.840	6.4	21.0
1 12	7 57.13	+20 48.3	1.877	2.856	2.2	20.8
1 22	7 47.39	+21 35.1	1.892	2.873	2.2	20.8
2 1	7 38.26	+22 17.0	1.938	2.888	6.3	21.1
2 11	7 30.73	+22 51.7	2.011	2.904	10.0	21.4
2 21	7 25.47	+23 18.2	2.108	2.919	13.1	21.6
381198 2007 RG_{35}			1 17.0 101°.58		0°.5/17.3 18	
12 13	8 17.31	+17 36.0	2.428	3.226	11.8	21.5
12 23	8 12.02	+17 57.9	2.359	3.243	8.9	21.3
1 2	8 4.90	+18 26.4	2.314	3.261	5.6	21.1
1 12	7 56.61	+18 58.6	2.299	3.277	2.0	20.9
1 22	7 47.92	+19 31.6	2.314	3.294	1.8	20.9
2 1	7 39.72	+20 2.8	2.359	3.310	5.3	21.2
2 11	7 32.80	+20 30.0	2.434	3.326	8.5	21.4
2 21	7 27.73	+20 52.2	2.533	3.342	11.2	21.6
491281 2011 UG_{400}			1 17.0 152°.59		1°.4/16.4 18	
12 13	8 22.21	+21 32.1	1.804	2.617	14.7	22.2
12 23	8 16.49	+22 22.8	1.730	2.623	11.1	22.0
1 2	8 8.08	+23 20.7	1.679	2.630	6.9	21.7
1 12	7 57.78	+24 20.0	1.656	2.635	2.5	21.5
1 22	7 46.73	+25 14.6	1.663	2.641	3.0	21.5
2 1	7 36.27	+25 59.6	1.699	2.645	7.4	21.8
2 11	7 27.65	+26 32.8	1.761	2.649	11.4	22.0
2 21	7 21.70	+26 54.2	1.847	2.653	14.9	22.3

30681 3084 T-2 1 17.0 251°.98 3°.9/18.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 19.20	+10 18.0	1.572	2.372	17.1	18.9
12 23	8 14.54	+10 15.6	1.486	2.365	13.5	18.6
1 2	8 7.06	+10 29.9	1.421	2.358	9.3	18.3
1 12	7 57.48	+11 0.3	1.382	2.351	5.2	18.1
1 22	7 46.98	+11 44.0	1.369	2.344	4.3	18.0
2 1	7 36.93	+12 36.3	1.384	2.336	8.1	18.2
2 11	7 28.72	+13 31.9	1.425	2.329	12.5	18.4
2 21	7 23.27	+14 26.0	1.488	2.321	16.5	18.7

119625 2001 WZ_{81} 1 17.0 147°.60 1°.3/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.06	+15 57.8	2.138	2.935	13.2	20.5
12 23	8 13.62	+16 6.4	2.059	2.942	10.1	20.3
1 2	8 6.05	+16 23.3	2.004	2.948	6.5	20.1
1 12	7 57.04	+16 46.3	1.977	2.954	2.7	19.8
1 22	7 47.49	+17 12.6	1.980	2.959	2.2	19.8
2 1	7 38.44	+17 39.3	2.013	2.964	6.0	20.0
2 11	7 30.83	+18 4.1	2.074	2.969	9.6	20.3
2 21	7 25.33	+18 25.3	2.159	2.973	12.7	20.5

362165 2009 EG_{12} 1 17.0 283°.40 3°.2/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.43	+25 30.0	1.601	2.429	15.5	21.1
12 23	8 15.74	+26 25.8	1.518	2.419	11.8	20.8
1 2	8 7.95	+27 27.0	1.457	2.409	7.6	20.6
1 12	7 57.83	+28 26.5	1.423	2.399	3.7	20.3
1 22	7 46.64	+29 16.9	1.416	2.389	4.6	20.3
2 1	7 35.97	+29 52.6	1.436	2.379	8.9	20.6
2 11	7 27.33	+30 11.8	1.482	2.369	13.3	20.8
2 21	7 21.75	+30 15.8	1.549	2.359	17.0	21.0

135151 2001 QN_{219} 1 17.0 94°.90 6°.2/19.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.43	+ 2 9.5	2.478	3.219	13.2	19.4
12 23	8 12.01	+ 1 10.6	2.402	3.231	10.9	19.2
1 2	8 4.87	+ 0 25.0	2.350	3.242	8.6	19.1
1 12	7 56.61	− 0 5.3	2.324	3.253	6.7	19.0
1 22	7 47.95	− 0 19.6	2.328	3.265	6.3	19.0
2 1	7 39.72	− 0 18.6	2.360	3.276	7.5	19.1
2 11	7 32.67	− 0 4.9	2.419	3.287	9.6	19.2
2 21	7 27.35	+ 0 18.1	2.503	3.298	11.8	19.4

386847 2010 LR_{33} 1 17.0 109°.94 3°.9/16.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 45.44	+27 1.4	1.276	2.078	20.2	21.1
12 23	8 34.36	+27 58.5	1.234	2.120	15.2	20.9
1 2	8 19.16	+28 54.5	1.215	2.160	9.6	20.7
1 12	8 1.43	+29 38.2	1.223	2.197	4.7	20.5
1 22	7 43.41	+30 1.6	1.260	2.232	5.3	20.7
2 1	7 27.42	+30 2.8	1.327	2.264	10.0	21.0
2 11	7 15.13	+29 46.0	1.420	2.294	14.5	21.4
2 21	7 7.22	+29 17.6	1.534	2.322	18.2	21.7

152345 2005 UO_{79} 1 17.0 93°.49 0°.8/17.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.95	+17 1.5	1.936	2.742	14.1	20.6
12 23	8 13.69	+17 22.2	1.867	2.755	10.7	20.4
1 2	8 6.15	+17 51.6	1.821	2.768	6.7	20.2
1 12	7 57.08	+18 26.7	1.803	2.781	2.5	20.0
1 22	7 47.49	+19 3.5	1.814	2.794	2.2	20.0
2 1	7 38.50	+19 38.5	1.855	2.807	6.3	20.3
2 11	7 31.13	+20 9.0	1.923	2.820	10.1	20.5
2 21	7 26.06	+20 33.6	2.014	2.832	13.4	20.8

285783 2000 WT_{21} 1 17.0 66°.23 1°.6/16.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.53	+20 30.1	1.385	2.210	17.7	19.8
12 23	8 17.79	+21 36.9	1.339	2.239	13.2	19.6
1 2	8 8.93	+22 52.5	1.316	2.268	8.1	19.3
1 12	7 58.05	+24 8.8	1.318	2.298	2.9	19.1
1 22	7 46.63	+25 17.5	1.348	2.327	3.5	19.2
2 1	7 36.31	+26 12.7	1.406	2.356	8.3	19.6
2 11	7 28.41	+26 52.3	1.490	2.384	12.7	19.9
2 21	7 23.69	+27 16.9	1.595	2.412	16.3	20.2

318849 2005 TG_{11} 1 17.0 22°.71 12°.3/23.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.15	−11 36.0	1.823	2.515	18.8	20.6
12 23	8 11.05	−12 37.3	1.749	2.517	16.8	20.4
1 2	8 4.64	−13 10.5	1.692	2.519	14.8	20.3
1 12	7 56.62	−13 10.1	1.656	2.522	13.1	20.2
1 22	7 47.94	−12 34.6	1.642	2.525	12.3	20.1
2 1	7 39.71	−11 25.8	1.652	2.528	12.7	20.2
2 11	7 33.00	− 9 50.6	1.685	2.531	14.1	20.3
2 21	7 28.55	− 7 58.2	1.740	2.535	16.1	20.4

238700 2005 EC_{327} 1 17.0 278°.87 3°.4/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.40	+29 22.8	2.284	3.098	12.0	20.6
12 23	8 13.38	+30 5.7	2.193	3.085	9.1	20.4
1 2	8 6.07	+30 48.5	2.128	3.073	6.1	20.2
1 12	7 57.12	+31 26.3	2.091	3.061	3.6	20.0
1 22	7 47.45	+31 54.3	2.083	3.049	4.3	20.0
2 1	7 38.16	+32 9.6	2.104	3.036	7.2	20.2
2 11	7 30.32	+32 11.7	2.152	3.024	10.4	20.3
2 21	7 24.68	+32 1.9	2.224	3.011	13.3	20.5

498191 2007 TA_{319} 1 17.0 352°.55 4°.4/19.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 14.70	+ 7 47.9	2.172	2.951	13.6	21.4
12 23	8 10.35	+ 7 27.0	2.087	2.950	10.9	21.2
1 2	8 4.04	+ 7 19.1	2.024	2.948	7.9	21.0
1 12	7 56.40	+ 7 24.4	1.989	2.947	5.2	20.9
1 22	7 48.22	+ 7 41.9	1.981	2.946	4.5	20.8
2 1	7 40.42	+ 8 9.5	2.002	2.946	6.7	21.0
2 11	7 33.89	+ 8 44.0	2.051	2.945	9.7	21.1
2 21	7 29.26	+ 9 21.7	2.123	2.945	12.6	21.3

240559 2004 RD_{289} 1 17.0 81°.07 15°.0/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.94	−16 27.8	1.615	2.279	21.9	20.3
12 23	8 14.74	−17 54.5	1.564	2.300	19.8	20.2
1 2	8 6.94	−18 46.3	1.529	2.321	17.8	20.1
1 12	7 57.40	−18 56.7	1.512	2.342	16.1	20.0
1 22	7 47.29	−18 23.6	1.515	2.363	15.1	20.0
2 1	7 37.94	−17 10.2	1.539	2.384	15.2	20.1
2 11	7 30.49	−15 25.0	1.585	2.404	16.2	20.2
2 21	7 25.68	−13 19.4	1.652	2.424	17.7	20.3

190881 2001 TF_{168} 1 17.0 77°.79 0°.3/17.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.55	+20 27.3	1.428	2.249	17.4	19.1
12 23	8 18.56	+20 17.1	1.365	2.262	13.2	18.9
1 2	8 9.45	+20 12.9	1.325	2.276	8.2	18.7
1 12	7 58.27	+20 11.3	1.310	2.290	2.9	18.4
1 22	7 46.49	+20 9.1	1.323	2.303	2.7	18.4
2 1	7 35.73	+20 4.3	1.363	2.317	7.9	18.8
2 11	7 27.34	+19 56.0	1.429	2.331	12.6	19.1
2 21	7 22.11	+19 44.7	1.516	2.344	16.5	19.3

242199 2003 QF_{16} 1 17.0 174°.01 0°.9/16.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.51	+23 9.1	2.149	2.949	13.1	21.2
12 23	8 17.79	+23 17.1	2.066	2.953	9.9	21.0
1 2	8 8.70	+23 27.2	2.008	2.956	6.2	20.7
1 12	7 58.00	+23 36.2	1.979	2.958	2.2	20.5
1 22	7 46.71	+23 40.9	1.981	2.959	2.4	20.5
2 1	7 36.01	+23 39.5	2.013	2.960	6.4	20.8
2 11	7 26.95	+23 31.6	2.074	2.960	10.1	21.0
2 21	7 20.25	+23 18.2	2.159	2.959	13.2	21.2

2672 Písek 1 17.0 198°.44 1°.5/17.9 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.26	+13 19.3	2.206	2.996	13.1	17.3
12 23	8 13.11	+13 56.3	2.115	2.993	10.1	17.1
1 2	8 5.84	+14 45.4	2.049	2.990	6.6	16.8
1 12	7 57.06	+15 43.8	2.011	2.987	2.9	16.6
1 22	7 47.60	+16 47.6	2.003	2.983	2.3	16.5
2 1	7 38.47	+17 52.2	2.026	2.978	5.9	16.8
2 11	7 30.64	+18 53.4	2.078	2.973	9.6	17.0
2 21	7 24.84	+19 48.4	2.155	2.967	12.8	17.2

354515 2004 RX_{7} 1 17.0 68°.66 1°.8/16.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.99	+22 18.9	1.359	2.187	17.8	21.2
12 23	8 18.25	+23 3.0	1.309	2.210	13.3	21.0
1 2	8 9.28	+23 53.6	1.281	2.234	8.2	20.8
1 12	7 58.21	+24 43.4	1.279	2.258	3.0	20.5
1 22	7 46.59	+25 25.6	1.304	2.282	3.6	20.6
2 1	7 36.08	+25 55.8	1.356	2.306	8.5	21.0
2 11	7 28.08	+26 12.8	1.433	2.329	13.0	21.3
2 21	7 23.35	+26 18.0	1.531	2.353	16.7	21.6

143311 2003 AW_{45} 1 17.0 73°.21 2°.7/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.78	+25 11.3	1.693	2.511	15.3	19.6
12 23	8 17.57	+26 5.7	1.646	2.541	11.4	19.4
1 2	8 8.63	+27 2.3	1.621	2.571	7.1	19.2
1 12	7 57.96	+27 54.3	1.625	2.601	3.3	19.1
1 22	7 46.86	+28 35.9	1.657	2.630	3.9	19.2
2 1	7 36.72	+29 3.7	1.718	2.659	7.8	19.5
2 11	7 28.70	+29 17.3	1.805	2.688	11.5	19.7
2 21	7 23.49	+29 18.6	1.914	2.716	14.6	20.0

336007 2007 TD_{386} 1 17.0 68°.42 5°.0/20.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.38	+ 3 14.4	2.263	3.022	13.8	20.3
12 23	8 10.00	+ 3 21.4	2.184	3.030	11.2	20.1
1 2	8 3.78	+ 3 45.5	2.127	3.038	8.4	19.9
1 12	7 56.33	+ 4 26.4	2.097	3.046	5.9	19.8
1 22	7 48.40	+ 5 22.2	2.095	3.054	5.0	19.8
2 1	7 40.86	+ 6 28.9	2.122	3.062	6.7	19.9
2 11	7 34.53	+ 7 41.8	2.177	3.070	9.3	20.0
2 21	7 30.00	+ 8 56.0	2.258	3.078	12.0	20.2

375542 2008 UG_{214} 1 17.0 47°.06 5°.1/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.11	+34 12.7	1.977	2.792	13.5	20.6
12 23	8 16.37	+34 50.2	1.910	2.798	10.5	20.4
1 2	8 7.96	+35 22.4	1.867	2.805	7.4	20.2
1 12	7 57.79	+35 42.9	1.851	2.812	5.2	20.1
1 22	7 47.04	+35 47.5	1.863	2.819	5.8	20.2
2 1	7 37.06	+35 34.3	1.903	2.826	8.5	20.3
2 11	7 29.04	+35 5.2	1.969	2.833	11.6	20.5
2 21	7 23.70	+34 23.7	2.057	2.841	14.3	20.7

405182 2002 XU_{117} 1 17.0 17°.94 0°.8/16.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 15.22	+19 13.0	1.192	2.038	18.6	20.7
12 23	8 12.16	+20 1.9	1.135	2.046	14.0	20.4
1 2	8 5.79	+21 3.7	1.098	2.055	8.7	20.2
1 12	7 57.13	+22 11.5	1.086	2.066	2.9	19.9
1 22	7 47.66	+23 17.2	1.098	2.078	3.2	19.9
2 1	7 39.09	+24 13.4	1.135	2.092	8.8	20.3
2 11	7 32.93	+24 56.0	1.196	2.107	13.8	20.6
2 21	7 30.04	+25 24.1	1.277	2.122	17.9	20.9

327058 2004 TG_{146} 1 17.0 135°.70 3°.9/19.1 18

12 13	8 17.31	+ 7 34.5	2.353	3.121	13.0	21.2
12 23	8 12.10	+ 7 27.6	2.274	3.131	10.4	21.0
1 2	8 5.04	+ 7 33.4	2.219	3.141	7.4	20.9
1 12	7 56.76	+ 7 51.7	2.191	3.151	4.7	20.7
1 22	7 48.03	+ 8 20.7	2.193	3.160	4.0	20.7
2 1	7 39.72	+ 8 57.8	2.225	3.168	6.1	20.8
2 11	7 32.66	+ 9 39.7	2.285	3.176	9.0	21.0
2 21	7 27.41	+10 23.0	2.371	3.184	11.7	21.2

373417 1998 SW_{38} 1 17.0 117°.77 0°.8/17.4 18

12 13	8 17.82	+17 29.4	2.190	2.992	12.8	21.7
12 23	8 12.69	+17 40.3	2.112	2.999	9.7	21.5
1 2	8 5.51	+17 58.3	2.059	3.005	6.1	21.3
1 12	7 56.94	+18 20.9	2.033	3.012	2.3	21.1
1 22	7 47.86	+18 45.3	2.038	3.018	2.0	21.1
2 1	7 39.27	+19 8.8	2.072	3.024	5.8	21.3
2 11	7 32.07	+19 29.3	2.134	3.030	9.3	21.6
2 21	7 26.92	+19 45.7	2.220	3.035	12.4	21.8

101584 1999 BP_{10} 1 17.1 325°.51 1°.1/17.4 18

12 13	8 16.59	+17 2.1	1.234	2.072	18.6	19.5
12 23	8 13.44	+17 14.0	1.151	2.056	14.4	19.2
1 2	8 6.85	+17 40.1	1.088	2.041	9.3	18.8
1 12	7 57.62	+18 17.2	1.047	2.027	3.5	18.5
1 22	7 47.11	+19 0.1	1.032	2.013	3.1	18.4
2 1	7 37.12	+19 42.6	1.042	2.001	9.0	18.7
2 11	7 29.41	+20 20.0	1.075	1.989	14.6	19.0
2 21	7 25.14	+20 49.3	1.127	1.978	19.4	19.2

97603 2000 EG_{76} 1 17.1 199°.39 4°.4/14.8 18

12 13	8 20.72	+33 26.6	2.382	3.190	11.7	19.5
12 23	8 15.05	+34 13.2	2.303	3.188	9.1	19.3
1 2	8 7.07	+34 56.5	2.250	3.186	6.4	19.2
1 12	7 57.51	+35 30.8	2.224	3.184	4.6	19.0
1 22	7 47.33	+35 51.8	2.228	3.182	5.2	19.1
2 1	7 37.64	+35 57.1	2.261	3.180	7.6	19.2
2 11	7 29.51	+35 47.3	2.321	3.177	10.4	19.4
2 21	7 23.63	+35 24.8	2.404	3.175	12.9	19.6

364293 2006 TK_{103} 1 17.1 104°.17 0°.3/16.9 18

12 13	8 20.86	+20 32.0	1.801	2.615	14.7	21.5
12 23	8 15.39	+20 49.5	1.730	2.624	11.1	21.3
1 2	8 7.36	+21 13.1	1.682	2.632	6.9	21.0
1 12	7 57.61	+21 39.0	1.661	2.641	2.3	20.8
1 22	7 47.25	+22 3.0	1.669	2.649	2.4	20.8
2 1	7 37.56	+22 22.2	1.706	2.658	6.9	21.1
2 11	7 29.68	+22 34.8	1.770	2.666	10.9	21.4
2 21	7 24.35	+22 40.6	1.857	2.674	14.4	21.6

178989 2001 QY_{329} 1 17.1 53°.99 7°.0/20.4 18

12 13	8 16.59	+ 2 4.2	1.709	2.478	17.2	19.8
12 23	8 12.19	+ 1 41.8	1.637	2.486	14.2	19.7
1 2	8 5.39	+ 1 40.9	1.586	2.494	10.9	19.5
1 12	7 56.95	+ 2 2.8	1.558	2.502	8.0	19.3
1 22	7 47.89	+ 2 46.4	1.556	2.510	7.0	19.3
2 1	7 39.38	+ 3 47.5	1.582	2.518	8.8	19.4
2 11	7 32.51	+ 4 59.8	1.633	2.527	11.8	19.6
2 21	7 28.01	+ 6 16.6	1.707	2.535	14.9	19.8

188777 2005 UP_{502} 1 17.1 108°.87 2°.1/18.1 18

12 13	8 17.98	+13 12.7	1.935	2.733	14.4	20.8
12 23	8 13.05	+13 29.0	1.858	2.740	11.1	20.6
1 2	8 5.86	+13 57.3	1.805	2.746	7.3	20.4
1 12	7 57.11	+14 35.5	1.779	2.753	3.4	20.2
1 22	7 47.77	+15 20.0	1.781	2.760	2.7	20.1
2 1	7 38.93	+16 6.7	1.813	2.766	6.4	20.4
2 11	7 31.63	+16 52.1	1.873	2.773	10.2	20.6
2 21	7 26.58	+17 33.2	1.956	2.779	13.5	20.9

236248 2005 YT_{92} 1 17.1 234°.43 0°.7/17.3 18

12 13	8 21.54	+17 17.8	1.813	2.619	14.9	21.5
12 23	8 16.16	+17 37.7	1.719	2.607	11.5	21.3
1 2	8 8.07	+18 7.5	1.647	2.595	7.3	21.0
1 12	7 57.96	+18 44.1	1.603	2.582	2.7	20.7
1 22	7 46.90	+19 23.3	1.588	2.569	2.4	20.6
2 1	7 36.21	+20 0.8	1.602	2.555	7.2	20.9
2 11	7 27.19	+20 33.4	1.643	2.540	11.6	21.1
2 21	7 20.77	+20 59.4	1.708	2.525	15.4	21.3

40315 1999 LS 1 17.1 163°.85 0°.9/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 25.28	+12 47.3	1.979	2.760	14.7	20.6
12 23	8 18.65	+14 5.5	1.895	2.769	11.3	20.4
1 2	8 9.46	+15 39.8	1.835	2.777	7.2	20.2
1 12	7 58.40	+17 25.0	1.806	2.783	2.8	19.9
1 22	7 46.51	+19 13.5	1.808	2.788	2.2	19.9
2 1	7 35.03	+20 57.9	1.843	2.793	6.7	20.2
2 11	7 25.16	+22 32.2	1.909	2.796	10.7	20.4
2 21	7 17.75	+23 53.2	1.999	2.798	14.2	20.6

123980 2001 FH_{39} 1 17.1 235°.29 2°.5/16.0 18

12 13	8 20.92	+27 53.0	2.293	3.101	12.1	19.7
12 23	8 15.17	+28 10.4	2.204	3.094	9.2	19.5
1 2	8 7.15	+28 27.3	2.140	3.087	5.9	19.3
1 12	7 57.56	+28 39.4	2.104	3.079	2.9	19.1
1 22	7 47.36	+28 43.4	2.099	3.071	3.4	19.1
2 1	7 37.63	+28 37.5	2.123	3.063	6.6	19.3
2 11	7 29.40	+28 21.8	2.175	3.055	9.9	19.5
2 21	7 23.39	+27 57.8	2.252	3.047	12.9	19.6

258155 2001 SZ_{57} 1 17.1 49°.07 9°.4/21.9 18

12 13	8 16.25	− 3 27.4	1.657	2.403	18.5	20.3
12 23	8 11.95	− 4 8.6	1.593	2.416	15.8	20.1
1 2	8 5.24	− 4 23.9	1.547	2.429	12.9	19.9
1 12	7 56.92	− 4 10.3	1.524	2.443	10.4	19.8
1 22	7 48.03	− 3 28.1	1.526	2.457	9.4	19.8
2 1	7 39.75	− 2 21.3	1.553	2.471	10.5	19.9
2 11	7 33.16	− 0 57.1	1.605	2.486	12.8	20.1
2 21	7 28.97	+ 0 35.9	1.679	2.500	15.4	20.3

276188 2002 PK_{186} 1 17.1 127°.66 1°.0/17.7 18

12 13	8 16.42	+15 1.0	2.294	3.090	12.5	21.4
12 23	8 11.63	+15 36.3	2.213	3.096	9.5	21.2
1 2	8 4.88	+16 21.5	2.156	3.101	6.1	21.0
1 12	7 56.79	+17 13.8	2.128	3.106	2.4	20.8
1 22	7 48.16	+18 9.2	2.131	3.111	2.0	20.7
2 1	7 39.92	+19 4.0	2.163	3.115	5.6	21.0
2 11	7 32.95	+19 54.6	2.224	3.120	9.0	21.2
2 21	7 27.87	+20 39.1	2.311	3.125	12.0	21.4

363 Padua 1 17.1 105°.74 2°.5/15.9 18

12 13	8 20.00	+25 28.8	1.977	2.793	13.5	13.5
12 23	8 14.70	+26 13.8	1.905	2.800	10.1	13.3
1 2	8 6.95	+27 1.4	1.857	2.807	6.4	13.1
1 12	7 57.52	+27 46.4	1.837	2.814	3.0	12.9
1 22	7 47.46	+28 23.5	1.847	2.820	3.6	12.9
2 1	7 37.98	+28 49.4	1.885	2.827	7.2	13.2
2 11	7 30.20	+29 3.1	1.951	2.834	10.8	13.4
2 21	7 24.85	+29 5.5	2.039	2.840	13.8	13.6

234052 1999 EL_{14} 1 17.1 1°.76 0°.7/16.7 18

12 13	8 17.06	+21 47.2	2.143	2.956	12.7	20.6
12 23	8 12.30	+22 7.1	2.062	2.956	9.5	20.4
1 2	8 5.37	+22 31.4	2.005	2.956	5.9	20.1
1 12	7 56.97	+22 56.8	1.976	2.956	2.1	19.9
1 22	7 47.99	+23 19.9	1.977	2.956	2.3	19.9
2 1	7 39.48	+23 38.0	2.007	2.957	6.1	20.1
2 11	7 32.41	+23 49.5	2.064	2.957	9.7	20.4
2 21	7 27.45	+23 54.4	2.145	2.958	12.8	20.6

420603 2012 HV_{48} 1 17.1 237°.40 1°.7/16.1 18

12 13	8 18.43	+21 59.9	2.051	2.864	13.2	21.2
12 23	8 13.58	+23 3.0	1.965	2.859	9.9	21.0
1 2	8 6.34	+24 13.4	1.904	2.854	6.2	20.8
1 12	7 57.36	+25 25.8	1.871	2.849	2.5	20.5
1 22	7 47.58	+26 34.0	1.868	2.844	3.1	20.5
2 1	7 38.16	+27 33.0	1.894	2.838	7.0	20.8
2 11	7 30.22	+28 19.8	1.948	2.833	10.7	21.0
2 21	7 24.58	+28 53.6	2.026	2.827	13.9	21.2

496655 2016 AH_{177} 1 17.1 162°.79 4°.7/19.5 18

12 13	8 17.88	+ 4 28.6	2.688	3.434	12.1	21.9
12 23	8 12.34	+ 4 4.6	2.603	3.441	9.9	21.7
1 2	8 5.15	+ 3 52.9	2.542	3.447	7.4	21.6
1 12	7 56.85	+ 3 54.1	2.508	3.453	5.3	21.4
1 22	7 48.13	+ 4 7.4	2.504	3.458	4.8	21.4
2 1	7 39.77	+ 4 31.4	2.531	3.462	6.2	21.5
2 11	7 32.48	+ 5 3.2	2.586	3.465	8.6	21.7
2 21	7 26.80	+ 5 39.8	2.667	3.468	10.9	21.8

132859 2002 RE_{70} 1 17.1 70°.01 4°.3/19.1 18

12 13	8 16.32	+ 7 56.4	2.115	2.893	14.0	19.3
12 23	8 11.55	+ 7 39.4	2.041	2.904	11.1	19.2
1 2	8 4.81	+ 7 35.9	1.990	2.915	8.0	19.0
1 12	7 56.75	+ 7 45.7	1.966	2.925	5.1	18.8
1 22	7 48.24	+ 8 7.5	1.970	2.936	4.4	18.8
2 1	7 40.20	+ 8 38.6	2.003	2.947	6.6	19.0
2 11	7 33.53	+ 9 15.5	2.063	2.958	9.7	19.2
2 21	7 28.82	+ 9 54.7	2.148	2.969	12.5	19.4

87265 2000 OL_{58} 1 17.1 69°.75 2°.0/16.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 27.22	+24 48.7	1.409	2.232	17.5	18.3
12 23	8 20.49	+25 7.1	1.362	2.261	13.1	18.1
1 2	8 10.58	+25 27.4	1.338	2.289	8.1	17.9
1 12	7 58.71	+25 43.9	1.339	2.318	3.2	17.7
1 22	7 46.46	+25 51.6	1.368	2.346	3.6	17.8
2 1	7 35.49	+25 48.7	1.425	2.374	8.3	18.1
2 11	7 27.12	+25 35.9	1.507	2.402	12.6	18.4
2 21	7 22.02	+25 15.6	1.611	2.429	16.2	18.7

379430 2010 CF_{18} 1 17.1 342°.93 1°.7/16.1 18

12 13	8 16.72	+22 37.0	2.012	2.830	13.2	21.1
12 23	8 12.29	+23 30.2	1.931	2.828	9.9	20.9
1 2	8 5.51	+24 29.5	1.874	2.825	6.2	20.7
1 12	7 57.07	+25 29.9	1.845	2.823	2.5	20.5
1 22	7 47.92	+26 25.9	1.845	2.821	3.0	20.5
2 1	7 39.18	+27 13.1	1.874	2.820	6.9	20.7
2 11	7 31.95	+27 48.8	1.930	2.818	10.6	20.9
2 21	7 27.01	+28 12.8	2.010	2.817	13.8	21.2

96446 1998 FS_{122} 1 17.1 344°.26 2°.3/16.2 18

12 13	8 18.31	+23 16.1	1.306	2.146	17.6	18.9
12 23	8 14.61	+23 57.5	1.232	2.140	13.4	18.6
1 2	8 7.49	+24 46.6	1.179	2.134	8.4	18.3
1 12	7 57.86	+25 36.8	1.150	2.129	3.4	18.0
1 22	7 47.14	+26 20.5	1.147	2.125	4.1	18.0
2 1	7 37.12	+26 51.9	1.170	2.121	9.3	18.3
2 11	7 29.47	+27 8.6	1.216	2.118	14.3	18.6
2 21	7 25.22	+27 11.5	1.282	2.116	18.5	18.8

378734 2008 RN_{3} 1 17.1 238°.71 4°.0/19.1 18

12 13	8 16.39	+ 7 42.6	2.264	3.038	13.3	21.3
12 23	8 11.67	+ 7 34.9	2.169	3.029	10.7	21.1
1 2	8 4.97	+ 7 40.4	2.097	3.021	7.7	20.9
1 12	7 56.86	+ 7 59.2	2.052	3.012	4.9	20.7
1 22	7 48.13	+ 8 29.7	2.036	3.003	4.2	20.6
2 1	7 39.70	+ 9 9.5	2.049	2.994	6.5	20.7
2 11	7 32.48	+ 9 54.8	2.091	2.984	9.6	20.9
2 21	7 27.13	+10 42.2	2.157	2.975	12.6	21.1

468324 2016 CR_{102} 1 17.1 154°.55 0°.9/17.4 18

12 13	8 22.74	+18 42.7	2.368	3.158	12.3	21.0
12 23	8 16.18	+18 23.8	2.286	3.166	9.4	20.8
1 2	8 7.60	+18 8.8	2.229	3.173	5.9	20.6
1 12	7 57.71	+17 56.3	2.202	3.180	2.3	20.4
1 22	7 47.38	+17 44.9	2.207	3.186	2.0	20.4
2 1	7 37.58	+17 33.5	2.242	3.192	5.6	20.6
2 11	7 29.21	+17 21.8	2.307	3.197	9.0	20.8
2 21	7 22.88	+17 9.3	2.397	3.201	11.9	21.0

422418 2014 SC_{283} 1 17.1 124°.49 0°.5/16.8 18

12 13	8 19.70	+20 3.9	1.936	2.746	13.9	21.5
12 23	8 14.45	+20 38.6	1.861	2.753	10.5	21.3
1 2	8 6.80	+21 20.4	1.810	2.760	6.5	21.1
1 12	7 57.49	+22 5.0	1.787	2.767	2.2	20.8
1 22	7 47.56	+22 47.7	1.794	2.774	2.4	20.8
2 1	7 38.17	+23 24.7	1.830	2.780	6.6	21.1
2 11	7 30.43	+23 53.6	1.893	2.786	10.5	21.4
2 21	7 25.06	+24 13.8	1.980	2.792	13.8	21.6

411979 2012 HV_{69} 1 17.1 263°.39 2°.9/15.4 18

12 13	8 19.19	+24 30.5	1.915	2.733	13.7	20.4
12 23	8 14.42	+25 45.8	1.829	2.726	10.4	20.2
1 2	8 7.01	+27 7.7	1.768	2.718	6.6	19.9
1 12	7 57.64	+28 29.5	1.735	2.711	3.3	19.7
1 22	7 47.35	+29 43.8	1.731	2.703	4.1	19.7
2 1	7 37.41	+30 44.7	1.757	2.695	7.9	19.9
2 11	7 29.10	+31 29.5	1.809	2.687	11.7	20.1
2 21	7 23.33	+31 58.4	1.884	2.679	15.0	20.3

140270 2001 SZ_{271} 1 17.1 28°.87 2°.4/16.0 18

12 13	8 17.59	+26 1.2	1.923	2.745	13.5	19.3
12 23	8 12.89	+26 32.2	1.856	2.754	10.2	19.1
1 2	8 5.81	+27 4.8	1.813	2.764	6.4	18.9
1 12	7 57.14	+27 34.1	1.797	2.774	2.9	18.7
1 22	7 47.93	+27 55.9	1.810	2.784	3.5	18.7
2 1	7 39.36	+28 7.6	1.851	2.795	7.1	19.0
2 11	7 32.49	+28 8.6	1.918	2.807	10.6	19.2
2 21	7 28.01	+28 0.0	2.009	2.818	13.7	19.5

255872 2006 SS_{208} 1 17.1 66°.77 0°.1/17.1 18

12 13	8 20.12	+18 48.5	1.614	2.433	15.9	20.5
12 23	8 15.05	+19 12.3	1.550	2.445	12.0	20.3
1 2	8 7.27	+19 44.9	1.507	2.458	7.5	20.1
1 12	7 57.66	+20 22.1	1.491	2.471	2.6	19.8
1 22	7 47.43	+20 59.1	1.503	2.484	2.4	19.8
2 1	7 37.94	+21 31.7	1.544	2.497	7.2	20.2
2 11	7 30.42	+21 57.3	1.610	2.510	11.5	20.4
2 21	7 25.62	+22 15.2	1.699	2.523	15.1	20.7

424990 2009 CU_{17} 1 17.1 305°.58 4°.9/20.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 14.62	+ 1 52.6	2.263	3.015	14.0	20.7
12 23	8 10.40	+ 2 29.0	2.162	3.004	11.5	20.5
1 2	8 4.23	+ 3 26.1	2.083	2.992	8.6	20.3
1 12	7 56.63	+ 4 43.5	2.031	2.981	5.9	20.1
1 22	7 48.36	+ 6 18.3	2.008	2.970	4.9	20.0
2 1	7 40.32	+ 8 5.1	2.016	2.959	6.7	20.1
2 11	7 33.40	+ 9 57.4	2.053	2.949	9.7	20.2
2 21	7 28.31	+11 48.6	2.117	2.939	12.7	20.4

105078 2000 KD_{71} 1 17.1 219°.66 5°.8/20.1 18

12 13	8 17.04	+ 2 49.9	2.090	2.847	14.8	20.6
12 23	8 12.29	+ 2 42.1	1.998	2.842	12.2	20.4
1 2	8 5.42	+ 2 52.4	1.928	2.836	9.3	20.2
1 12	7 57.04	+ 3 21.7	1.884	2.830	6.7	20.0
1 22	7 47.98	+ 4 8.6	1.868	2.824	5.8	20.0
2 1	7 39.25	+ 5 9.8	1.880	2.817	7.6	20.1
2 11	7 31.82	+ 6 20.2	1.920	2.810	10.5	20.2
2 21	7 26.42	+ 7 34.3	1.985	2.803	13.5	20.4

220554 2004 GW_{59} 1 17.1 175°.10 4°.7/19.6 18

12 13	8 18.13	+ 4 21.7	2.602	3.349	12.5	22.0
12 23	8 12.62	+ 4 3.9	2.513	3.352	10.1	21.9
1 2	8 5.39	+ 3 59.1	2.448	3.355	7.6	21.7
1 12	7 56.97	+ 4 7.8	2.411	3.357	5.4	21.6
1 22	7 48.09	+ 4 29.2	2.403	3.358	4.8	21.5
2 1	7 39.53	+ 5 1.3	2.426	3.358	6.4	21.6
2 11	7 32.08	+ 5 41.1	2.477	3.358	8.8	21.8
2 21	7 26.30	+ 6 25.2	2.554	3.357	11.3	22.0

47726 2000 DE_{42} 1 17.1 134°.43 2°.7/18.7 18

12 13	8 15.89	+10 21.9	2.332	3.114	12.7	19.7
12 23	8 11.16	+10 35.9	2.249	3.119	10.0	19.5
1 2	8 4.57	+11 1.9	2.191	3.124	6.8	19.3
1 12	7 56.71	+11 38.6	2.160	3.128	3.7	19.1
1 22	7 48.35	+12 23.3	2.158	3.133	3.0	19.1
2 1	7 40.36	+13 12.7	2.187	3.137	5.7	19.2
2 11	7 33.58	+14 3.3	2.244	3.141	8.9	19.4
2 21	7 28.63	+14 51.8	2.327	3.145	11.8	19.6

406042 2006 TR_{109} 1 17.1 105°.24 2°.5/15.6 18

12 13	8 23.15	+24 10.6	2.024	2.832	13.5	21.2
12 23	8 16.93	+25 27.2	1.965	2.856	10.1	21.0
1 2	8 8.28	+26 47.6	1.931	2.879	6.3	20.8
1 12	7 57.99	+28 5.2	1.926	2.901	3.0	20.6
1 22	7 47.14	+29 13.4	1.951	2.923	3.7	20.7
2 1	7 36.93	+30 7.8	2.008	2.945	7.2	21.0
2 11	7 28.46	+30 46.9	2.091	2.965	10.5	21.2
2 21	7 22.44	+31 11.6	2.199	2.985	13.4	21.5

363811 2005 MN_{30} 1 17.1 98°.70 3°.2/18.9 18

12 13	8 18.43	+ 8 57.7	1.916	2.700	15.0	21.4
12 23	8 13.36	+ 9 26.9	1.845	2.715	11.8	21.2
1 2	8 6.05	+10 12.4	1.797	2.730	8.0	21.0
1 12	7 57.24	+11 12.0	1.775	2.744	4.4	20.8
1 22	7 47.87	+12 21.4	1.783	2.758	3.5	20.8
2 1	7 39.03	+13 35.2	1.821	2.772	6.5	21.0
2 11	7 31.74	+14 48.2	1.886	2.786	10.2	21.3
2 21	7 26.68	+15 56.2	1.976	2.799	13.4	21.5

469014 2015 AN_{227} 1 17.1 4°.85 3°.4/18.3 18

12 13	8 16.10	+12 51.2	1.714	2.522	15.5	21.1
12 23	8 11.92	+12 25.5	1.637	2.522	12.1	20.9
1 2	8 5.31	+12 11.2	1.582	2.523	8.2	20.7
1 12	7 57.02	+12 8.0	1.553	2.524	4.5	20.5
1 22	7 48.09	+12 14.4	1.551	2.527	3.8	20.4
2 1	7 39.72	+12 28.2	1.577	2.529	7.2	20.6
2 11	7 33.01	+12 46.4	1.628	2.533	11.1	20.9
2 21	7 28.72	+13 6.1	1.703	2.537	14.7	21.1

266445 2007 HR_{82} 1 17.1 307°.75 1°.8/16.2 18

12 13	8 17.23	+21 56.4	1.784	2.606	14.4	20.2
12 23	8 13.09	+22 52.3	1.693	2.593	10.9	20.0
1 2	8 6.27	+23 56.9	1.627	2.579	6.9	19.7
1 12	7 57.44	+25 4.6	1.587	2.566	2.7	19.4
1 22	7 47.65	+26 8.9	1.575	2.552	3.3	19.4
2 1	7 38.20	+27 4.0	1.592	2.540	7.7	19.7
2 11	7 30.40	+27 46.5	1.635	2.527	11.9	19.9
2 21	7 25.20	+28 15.5	1.701	2.515	15.6	20.1

521049 2015 DL_{236} 1 17.1 153°.95 2°.3/18.5 18

12 13	8 14.83	+11 16.9	2.647	3.427	11.4	21.7
12 23	8 10.19	+11 28.2	2.561	3.431	8.9	21.5
1 2	8 3.90	+11 49.4	2.500	3.434	6.0	21.3
1 12	7 56.49	+12 19.3	2.467	3.437	3.2	21.2
1 22	7 48.65	+12 55.7	2.464	3.439	2.6	21.1
2 1	7 41.12	+13 36.0	2.492	3.442	5.1	21.3
2 11	7 34.65	+14 17.3	2.549	3.444	8.0	21.5
2 21	7 29.78	+14 57.1	2.632	3.446	10.7	21.7

236694 2006 UB_{65} 1 17.1 177°.49 0°.7/16.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 16.56	+22 12.4	2.929	3.728	10.0	21.5
12 23	8 11.40	+22 35.1	2.843	3.730	7.5	21.4
1 2	8 4.61	+23 0.7	2.783	3.731	4.6	21.2
1 12	7 56.74	+23 26.6	2.752	3.731	1.6	21.0
1 22	7 48.44	+23 50.3	2.753	3.732	1.8	21.0
2 1	7 40.46	+24 9.6	2.785	3.732	4.8	21.2
2 11	7 33.52	+24 23.4	2.846	3.731	7.7	21.4
2 21	7 28.16	+24 31.5	2.933	3.731	10.1	21.5

239322 2007 RG_{40} 1 17.1 96°.04 1°.0/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.95	+16 0.2	2.366	3.162	12.2	20.8
12 23	8 11.89	+16 18.3	2.294	3.176	9.2	20.6
1 2	8 4.99	+16 44.2	2.247	3.191	5.9	20.4
1 12	7 56.87	+17 15.5	2.228	3.205	2.4	20.2
1 22	7 48.33	+17 49.3	2.239	3.219	1.9	20.2
2 1	7 40.26	+18 22.7	2.281	3.233	5.3	20.5
2 11	7 33.47	+18 53.4	2.352	3.247	8.6	20.7
2 21	7 28.53	+19 19.9	2.447	3.261	11.4	20.9

199288 2006 BX_{56} 1 17.1 82°.35 0°.2/17.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.57	+20 0.9	1.458	2.277	17.2	21.3
12 23	8 18.53	+20 18.7	1.403	2.299	13.0	21.1
1 2	8 9.48	+20 44.2	1.369	2.320	8.1	20.9
1 12	7 58.45	+21 12.4	1.361	2.341	2.7	20.6
1 22	7 46.88	+21 38.5	1.381	2.362	2.7	20.7
2 1	7 36.32	+21 58.8	1.429	2.382	7.8	21.0
2 11	7 28.09	+22 11.7	1.503	2.402	12.3	21.3
2 21	7 22.94	+22 17.3	1.599	2.422	16.0	21.6

448090 2008 JK_{23} 1 17.1 201°.30 2°.3/16.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.84	+23 52.4	1.727	2.540	15.2	22.5
12 23	8 18.88	+24 41.9	1.643	2.537	11.6	22.2
1 2	8 9.91	+25 37.1	1.583	2.532	7.3	21.9
1 12	7 58.71	+26 31.7	1.550	2.527	3.1	21.7
1 22	7 46.52	+27 18.9	1.546	2.522	3.7	21.7
2 1	7 34.86	+27 53.8	1.571	2.515	8.2	22.0
2 11	7 25.18	+28 14.6	1.623	2.508	12.4	22.2
2 21	7 18.43	+28 22.4	1.697	2.500	16.1	22.4

139332 2001 KH_{46} 1 17.1 122°.14 6°.9/20.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.11	+ 1 37.6	1.980	2.731	15.7	20.1
12 23	8 13.78	+ 0 59.1	1.906	2.742	13.0	20.0
1 2	8 6.30	+ 0 38.8	1.854	2.753	10.1	19.8
1 12	7 57.36	+ 0 38.4	1.828	2.763	7.7	19.7
1 22	7 47.89	+ 0 57.6	1.828	2.774	7.0	19.6
2 1	7 38.93	+ 1 34.0	1.857	2.783	8.4	19.7
2 11	7 31.46	+ 2 23.0	1.912	2.793	11.0	19.9
2 21	7 26.14	+ 3 19.2	1.991	2.802	13.7	20.1

74046 1998 HX_{102} 1 17.1 241°.48 1°.6/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.44	+22 51.3	1.847	2.662	14.3	19.9
12 23	8 16.15	+23 27.7	1.757	2.651	10.9	19.6
1 2	8 8.13	+24 10.0	1.690	2.640	6.8	19.4
1 12	7 58.09	+24 53.1	1.650	2.629	2.6	19.1
1 22	7 47.12	+25 31.6	1.639	2.617	3.1	19.1
2 1	7 36.57	+26 1.3	1.658	2.605	7.5	19.3
2 11	7 27.74	+26 20.2	1.703	2.592	11.7	19.5
2 21	7 21.55	+26 28.5	1.771	2.580	15.3	19.7

468915 2014 UC_{51} 1 17.1 319°.01 9°.2/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.68	+40 17.9	1.753	2.568	14.9	20.3
12 23	8 17.96	+42 12.2	1.682	2.559	12.3	20.1
1 2	8 9.70	+43 59.9	1.636	2.551	10.1	20.0
1 12	7 58.73	+45 29.6	1.615	2.543	9.2	19.9
1 22	7 46.48	+46 31.6	1.620	2.536	10.2	19.9
2 1	7 34.78	+47 1.0	1.650	2.528	12.6	20.0
2 11	7 25.42	+46 59.3	1.703	2.521	15.3	20.2
2 21	7 19.56	+46 32.3	1.774	2.515	17.9	20.4

205323 2000 UJ_{34} 1 17.1 8°.51 1°.7/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.25	+16 55.0	1.111	1.956	19.7	19.7
12 23	8 13.19	+16 49.6	1.049	1.957	15.1	19.4
1 2	8 6.63	+16 57.6	1.005	1.959	9.7	19.1
1 12	7 57.61	+17 16.2	0.984	1.963	3.9	18.8
1 22	7 47.67	+17 40.9	0.988	1.968	3.2	18.8
2 1	7 38.64	+18 7.0	1.015	1.975	9.0	19.1
2 11	7 32.14	+18 30.2	1.065	1.983	14.3	19.4
2 21	7 29.10	+18 48.3	1.135	1.992	18.8	19.7

118919 2000 VR_{27} 1 17.1 339°.58 8°.5/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.87	+35 7.7	1.484	2.321	16.0	18.0
12 23	8 14.59	+37 8.6	1.411	2.308	12.8	17.7
1 2	8 7.75	+39 9.0	1.361	2.296	9.9	17.5
1 12	7 58.11	+40 56.4	1.336	2.285	8.5	17.4
1 22	7 47.07	+42 18.9	1.337	2.275	9.8	17.5
2 1	7 36.55	+43 9.4	1.362	2.266	12.8	17.6
2 11	7 28.41	+43 27.5	1.409	2.257	16.2	17.8
2 21	7 23.87	+43 17.8	1.474	2.250	19.4	18.0

461793 2005 VE_{127} 1 17.1 24°.05 2°.5/18.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 17.55	+12 58.2	1.764	2.568	15.3	21.8
12 23	8 13.02	+13 2.8	1.686	2.570	11.9	21.6
1 2	8 6.03	+13 20.2	1.630	2.571	7.9	21.4
1 12	7 57.33	+13 48.8	1.599	2.573	3.9	21.1
1 22	7 47.94	+14 25.4	1.597	2.575	3.1	21.1
2 1	7 39.07	+15 6.1	1.623	2.577	6.9	21.3
2 11	7 31.84	+15 46.9	1.676	2.579	11.0	21.6
2 21	7 27.02	+16 24.9	1.752	2.582	14.5	21.8

93770 2000 WX_{23} 1 17.1 100°.57 0°.2/17.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.10	+20 37.8	2.025	2.833	13.5	20.2
12 23	8 14.59	+20 49.5	1.953	2.844	10.2	20.0
1 2	8 6.82	+21 6.2	1.906	2.855	6.3	19.8
1 12	7 57.54	+21 24.6	1.886	2.866	2.2	19.5
1 22	7 47.77	+21 41.6	1.896	2.876	2.1	19.5
2 1	7 38.59	+21 54.6	1.935	2.886	6.2	19.8
2 11	7 31.01	+22 2.4	2.002	2.896	9.9	20.1
2 21	7 25.71	+22 4.9	2.093	2.906	13.1	20.3

371729 2007 EN_{106} 1 17.1 254°.08 7°.7/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 26.53	+41 53.7	2.184	2.978	13.1	20.7
12 23	8 20.15	+42 57.9	2.100	2.964	10.8	20.5
1 2	8 10.69	+43 53.4	2.040	2.949	8.7	20.4
1 12	7 58.98	+44 31.8	2.006	2.934	7.7	20.3
1 22	7 46.31	+44 46.8	2.000	2.919	8.3	20.3
2 1	7 34.24	+44 36.0	2.021	2.904	10.4	20.4
2 11	7 24.20	+44 1.3	2.067	2.888	12.9	20.5
2 21	7 17.16	+43 8.0	2.134	2.872	15.3	20.7

34309 2000 QY_{186} 1 17.1 113°.91 4°.1/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.77	+35 8.1	2.830	3.627	10.4	18.8
12 23	8 15.37	+35 42.4	2.767	3.644	8.0	18.7
1 2	8 7.09	+36 11.5	2.731	3.662	5.7	18.6
1 12	7 57.59	+36 31.1	2.723	3.679	4.2	18.5
1 22	7 47.76	+36 38.4	2.746	3.695	4.6	18.5
2 1	7 38.49	+36 32.2	2.798	3.712	6.6	18.7
2 11	7 30.64	+36 13.4	2.879	3.727	8.8	18.9
2 21	7 24.75	+35 44.5	2.984	3.743	10.9	19.0

97964 2000 QD_{143} 1 17.1 241°.32 0°.2/17.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.59	+18 18.7	1.840	2.647	14.7	20.4
12 23	8 16.27	+18 43.8	1.744	2.633	11.3	20.1
1 2	8 8.23	+19 18.2	1.670	2.619	7.1	19.8
1 12	7 58.15	+19 58.5	1.624	2.604	2.5	19.5
1 22	7 47.10	+20 40.1	1.607	2.588	2.4	19.5
2 1	7 36.37	+21 18.6	1.620	2.571	7.1	19.7
2 11	7 27.29	+21 50.8	1.659	2.555	11.6	19.9
2 21	7 20.78	+22 15.5	1.722	2.537	15.4	20.1

252260 2001 QY_{161} 1 17.1 144°.64 0°.8/16.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.05	+21 30.2	2.209	3.012	12.7	21.7
12 23	8 15.20	+22 1.5	2.134	3.022	9.5	21.5
1 2	8 7.18	+22 37.4	2.083	3.032	5.9	21.3
1 12	7 57.68	+23 14.2	2.062	3.041	2.1	21.0
1 22	7 47.65	+23 47.8	2.071	3.050	2.3	21.1
2 1	7 38.13	+24 15.2	2.110	3.057	6.1	21.3
2 11	7 30.10	+24 34.9	2.177	3.065	9.6	21.6
2 21	7 24.24	+24 46.8	2.269	3.072	12.6	21.8

235474 2004 BH_{18} 1 17.1 21°.54 9°.1/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.70	+46 5.5	2.104	2.894	13.7	19.6
12 23	8 19.60	+47 17.9	2.044	2.896	11.6	19.5
1 2	8 10.31	+48 17.4	2.006	2.898	9.8	19.4
1 12	7 58.82	+48 55.4	1.994	2.901	9.1	19.3
1 22	7 46.56	+49 6.3	2.007	2.903	9.7	19.4
2 1	7 35.18	+48 48.5	2.046	2.906	11.3	19.5
2 11	7 26.12	+48 5.5	2.109	2.909	13.4	19.6
2 21	7 20.25	+47 3.3	2.191	2.913	15.4	19.8

224992 2007 EV_{112} 1 17.1 339°.34 8°.0/20.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.52	+ 0 10.6	1.815	2.573	16.7	20.2
12 23	8 11.42	− 0 31.3	1.732	2.569	14.1	20.0
1 2	8 5.03	− 0 52.9	1.669	2.565	11.2	19.9
1 12	7 57.00	− 0 51.1	1.630	2.562	8.8	19.7
1 22	7 48.27	− 0 25.8	1.617	2.559	8.0	19.6
2 1	7 39.94	+ 0 20.7	1.630	2.557	9.4	19.7
2 11	7 33.10	+ 1 23.1	1.668	2.554	12.1	19.9
2 21	7 28.49	+ 2 34.7	1.730	2.552	15.0	20.1

339540 2005 JK_{49} 1 17.1 232°.24 0°.2/16.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.49	+19 45.0	2.668	3.468	10.8	21.7
12 23	8 11.58	+20 11.3	2.572	3.458	8.2	21.5
1 2	8 4.88	+20 43.0	2.501	3.449	5.1	21.3
1 12	7 56.90	+21 17.3	2.459	3.439	1.8	21.1
1 22	7 48.37	+21 51.3	2.449	3.429	1.8	21.0
2 1	7 40.11	+22 22.3	2.469	3.418	5.2	21.3
2 11	7 32.92	+22 48.4	2.518	3.407	8.4	21.4
2 21	7 27.44	+23 8.5	2.592	3.396	11.1	21.6

95278 2002 CC_{76} 1 17.1 67°.42 1°.6/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 19.86	+23 39.8	1.860	2.678	14.1	19.9
12 23	8 14.72	+24 7.9	1.787	2.684	10.6	19.7
1 2	8 7.05	+24 39.6	1.739	2.690	6.6	19.5
1 12	7 57.67	+25 10.4	1.717	2.696	2.6	19.2
1 22	7 47.67	+25 35.8	1.725	2.702	3.0	19.2
2 1	7 38.29	+25 52.8	1.761	2.709	7.0	19.5
2 11	7 30.67	+26 0.2	1.824	2.715	10.9	19.8
2 21	7 25.55	+25 58.8	1.910	2.722	14.2	20.0

258193 2001 SU_{242} 1 17.1 52°.97 7°.6/20.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.78	+ 0 44.4	1.665	2.430	17.7	20.4
12 23	8 12.38	+ 0 19.6	1.600	2.443	14.7	20.2
1 2	8 5.58	+ 0 17.8	1.554	2.457	11.4	20.0
1 12	7 57.16	+ 0 40.8	1.532	2.471	8.6	19.9
1 22	7 48.18	+ 1 26.9	1.536	2.485	7.6	19.9
2 1	7 39.81	+ 2 31.9	1.566	2.500	9.1	20.0
2 11	7 33.13	+ 3 48.8	1.622	2.514	12.0	20.2
2 21	7 28.84	+ 5 10.6	1.701	2.529	15.0	20.4

451097 2009 CH_{35} 1 17.1 67°.73 2°.2/16.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.15	+23 10.2	1.417	2.245	17.2	21.0
12 23	8 17.70	+23 59.1	1.364	2.265	12.9	20.8
1 2	8 9.09	+24 53.8	1.333	2.285	8.0	20.6
1 12	7 58.39	+25 46.9	1.327	2.306	3.2	20.3
1 22	7 47.06	+26 31.6	1.349	2.326	3.8	20.4
2 1	7 36.73	+27 3.2	1.398	2.346	8.5	20.8
2 11	7 28.80	+27 20.6	1.472	2.366	12.8	21.1
2 21	7 24.04	+27 25.4	1.567	2.386	16.5	21.3

184126 2004 JD_{1} 1 17.1 159°.71 2°.9/18.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.08	+10 11.9	2.194	2.974	13.5	20.5
12 23	8 12.95	+10 23.1	2.110	2.979	10.6	20.3
1 2	8 5.79	+10 46.9	2.051	2.983	7.2	20.1
1 12	7 57.23	+11 22.2	2.019	2.987	4.0	19.9
1 22	7 48.11	+12 6.2	2.017	2.991	3.2	19.8
2 1	7 39.39	+12 55.4	2.044	2.994	6.1	20.0
2 11	7 32.00	+13 46.1	2.100	2.997	9.4	20.2
2 21	7 26.58	+14 34.8	2.182	2.999	12.5	20.4

425482 2010 FH_{12} 1 17.1 23°.17 3°.4/15.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.92	+30 3.8	2.128	2.943	12.7	21.1
12 23	8 14.60	+30 33.1	2.052	2.944	9.7	20.9
1 2	8 6.91	+31 0.5	2.001	2.946	6.4	20.7
1 12	7 57.62	+31 21.2	1.977	2.948	3.7	20.6
1 22	7 47.75	+31 31.1	1.983	2.950	4.3	20.6
2 1	7 38.47	+31 28.2	2.017	2.952	7.3	20.8
2 11	7 30.84	+31 13.0	2.078	2.955	10.5	21.0
2 21	7 25.57	+30 47.5	2.163	2.957	13.4	21.2

178072 2006 SX_{97} 1 17.1 91°.25 0°.6/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.90	+20 53.5	1.784	2.597	14.8	20.9
12 23	8 16.17	+21 18.5	1.721	2.615	11.1	20.7
1 2	8 7.90	+21 49.3	1.682	2.632	6.9	20.4
1 12	7 57.95	+22 21.7	1.669	2.649	2.4	20.2
1 22	7 47.47	+22 51.1	1.686	2.666	2.5	20.2
2 1	7 37.74	+23 14.3	1.731	2.682	6.9	20.5
2 11	7 29.88	+23 29.8	1.804	2.698	10.8	20.8
2 21	7 24.59	+23 37.5	1.900	2.714	14.2	21.1

256031 2006 UH_{42} 1 17.1 192°.09 1°.1/16.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.85	+22 14.6	2.006	2.816	13.5	20.9
12 23	8 15.39	+22 45.0	1.923	2.815	10.2	20.7
1 2	8 7.48	+23 20.5	1.864	2.814	6.4	20.5
1 12	7 57.85	+23 56.7	1.833	2.812	2.3	20.2
1 22	7 47.51	+24 29.1	1.832	2.810	2.6	20.2
2 1	7 37.66	+24 54.5	1.860	2.808	6.7	20.5
2 11	7 29.42	+25 11.1	1.915	2.805	10.6	20.7
2 21	7 23.55	+25 18.9	1.995	2.802	13.9	20.9

273006 2006 DF_{78} 1 17.1 189°.44 1°.7/16.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.39	+24 32.8	2.186	2.997	12.5	21.2
12 23	8 14.10	+24 58.9	2.104	2.997	9.4	21.0
1 2	8 6.58	+25 27.5	2.047	2.996	5.9	20.8
1 12	7 57.51	+25 54.5	2.018	2.996	2.4	20.6
1 22	7 47.85	+26 16.2	2.019	2.995	2.8	20.6
2 1	7 38.66	+26 29.9	2.049	2.994	6.4	20.8
2 11	7 30.95	+26 34.8	2.107	2.993	9.9	21.0
2 21	7 25.44	+26 31.4	2.189	2.992	12.9	21.2

127954 2003 HB_{13} 1 17.1 315°.92 0°.0/17.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.24	+18 2.9	1.405	2.232	17.3	20.1
12 23	8 15.09	+18 38.4	1.326	2.226	13.3	19.8
1 2	8 7.75	+19 27.0	1.268	2.220	8.4	19.5
1 12	7 58.05	+20 23.8	1.235	2.215	2.9	19.2
1 22	7 47.29	+21 22.3	1.228	2.209	2.8	19.2
2 1	7 37.09	+22 15.9	1.249	2.204	8.3	19.5
2 11	7 29.01	+23 0.2	1.294	2.200	13.4	19.7
2 21	7 24.08	+23 33.2	1.361	2.195	17.7	20.0

84793 2002 XZ_{86} 1 17.1 128°.59 4°.3/15.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 26.43	+28 57.7	1.583	2.404	16.0	19.9
12 23	8 20.21	+29 54.0	1.519	2.414	12.2	19.7
1 2	8 10.74	+30 50.3	1.478	2.424	8.1	19.4
1 12	7 59.01	+31 38.3	1.463	2.434	4.7	19.3
1 22	7 46.49	+32 11.1	1.476	2.443	5.5	19.3
2 1	7 34.86	+32 24.9	1.516	2.451	9.2	19.6
2 11	7 25.61	+32 20.6	1.582	2.460	13.2	19.8
2 21	7 19.61	+32 1.7	1.670	2.467	16.6	20.1

193238 2000 ST_{21} 1 17.1 144°.74 18°.2/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.59	−19 26.2	1.369	2.030	25.3	20.8
12 23	8 16.78	−20 55.0	1.307	2.036	23.3	20.6
1 2	8 8.75	−21 43.0	1.258	2.042	21.3	20.5
1 12	7 58.38	−21 40.3	1.223	2.048	19.5	20.4
1 22	7 47.03	−20 41.9	1.207	2.053	18.4	20.3
2 1	7 36.34	−18 50.2	1.210	2.058	18.3	20.3
2 11	7 27.85	−16 15.8	1.234	2.062	19.4	20.4
2 21	7 22.55	−13 14.6	1.277	2.065	21.2	20.5

429004 2009 BS_{51} 1 17.1 67°.48 0°.6/17.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.74	+16 30.1	2.283	3.084	12.4	20.8
12 23	8 11.19	+17 3.7	2.203	3.089	9.4	20.6
1 2	8 4.69	+17 46.1	2.148	3.094	5.9	20.4
1 12	7 56.87	+18 34.2	2.121	3.099	2.2	20.1
1 22	7 48.51	+19 24.4	2.124	3.104	1.9	20.1
2 1	7 40.55	+20 12.9	2.157	3.109	5.6	20.4
2 11	7 33.85	+20 56.7	2.218	3.114	9.0	20.6
2 21	7 29.05	+21 34.1	2.304	3.120	12.0	20.8

350215 2012 RW_{40} 1 17.1 86°.83 3°.1/18.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.17	+ 9 23.0	2.376	3.155	12.6	20.7
12 23	8 10.60	+ 9 31.7	2.297	3.164	9.9	20.6
1 2	8 4.24	+ 9 52.7	2.243	3.173	6.9	20.4
1 12	7 56.69	+10 24.7	2.216	3.181	4.0	20.2
1 22	7 48.70	+11 5.4	2.218	3.190	3.3	20.2
2 1	7 41.09	+11 51.7	2.250	3.199	5.7	20.3
2 11	7 34.66	+12 40.3	2.311	3.208	8.7	20.5
2 21	7 29.99	+13 27.8	2.397	3.216	11.4	20.7

408661 2014 MS_{24} 1 17.1 192°.79 0°.5/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.23	+20 9.7	1.952	2.757	14.0	22.1
12 23	8 16.50	+20 41.8	1.866	2.756	10.6	21.8
1 2	8 8.23	+21 20.9	1.805	2.754	6.6	21.6
1 12	7 58.15	+22 3.1	1.772	2.751	2.3	21.3
1 22	7 47.29	+22 43.5	1.768	2.748	2.4	21.3
2 1	7 36.90	+23 18.2	1.794	2.744	6.8	21.6
2 11	7 28.15	+23 44.8	1.848	2.739	10.8	21.8
2 21	7 21.86	+24 2.9	1.925	2.734	14.3	22.0

251220 2006 UN_{203} 1 17.1 100°.93 1°.6/16.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 26.10	+25 24.1	1.907	2.714	14.2	20.7
12 23	8 19.12	+25 25.9	1.844	2.734	10.7	20.5
1 2	8 9.62	+25 27.8	1.806	2.754	6.7	20.3
1 12	7 58.53	+25 26.1	1.795	2.773	2.6	20.1
1 22	7 47.04	+25 17.8	1.815	2.792	2.9	20.1
2 1	7 36.44	+25 1.9	1.864	2.811	6.8	20.4
2 11	7 27.80	+24 39.1	1.941	2.829	10.5	20.7
2 21	7 21.79	+24 11.2	2.042	2.847	13.7	20.9

66617 1999 RO_{201} 1 17.1 194°.67 2°.5/18.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.57	+12 10.3	2.617	3.393	11.7	20.7
12 23	8 13.04	+11 58.7	2.523	3.390	9.1	20.5
1 2	8 5.74	+11 55.3	2.455	3.387	6.2	20.3
1 12	7 57.22	+11 59.5	2.415	3.384	3.4	20.1
1 22	7 48.21	+12 10.0	2.406	3.379	2.8	20.0
2 1	7 39.52	+12 25.2	2.427	3.375	5.4	20.2
2 11	7 31.94	+12 43.1	2.478	3.369	8.4	20.4
2 21	7 26.07	+13 1.8	2.555	3.363	11.1	20.6

452993 2007 GJ_{73} 1 17.1 255°.45 2°.7/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.23	+23 45.7	1.577	2.401	15.9	21.5
12 23	8 17.33	+24 47.2	1.490	2.389	12.1	21.2
1 2	8 9.21	+25 57.0	1.425	2.376	7.7	20.9
1 12	7 58.61	+27 7.9	1.386	2.363	3.4	20.6
1 22	7 46.79	+28 11.5	1.375	2.350	4.3	20.6
2 1	7 35.39	+29 1.4	1.392	2.336	8.9	20.9
2 11	7 26.02	+29 34.5	1.435	2.323	13.5	21.1
2 21	7 19.77	+29 51.4	1.498	2.309	17.5	21.3

86915 2000 HV_{51} 1 17.1 160°.49 4°.2/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.35	+28 58.6	1.781	2.596	14.8	20.3
12 23	8 19.20	+29 59.8	1.710	2.602	11.3	20.0
1 2	8 10.06	+31 1.7	1.662	2.607	7.5	19.8
1 12	7 58.80	+31 56.4	1.641	2.611	4.5	19.7
1 22	7 46.71	+32 37.1	1.649	2.615	5.2	19.7
2 1	7 35.31	+33 0.0	1.686	2.618	8.7	19.9
2 11	7 25.98	+33 4.9	1.749	2.621	12.4	20.1
2 21	7 19.62	+32 54.8	1.834	2.623	15.6	20.4

351300 2004 TE_{139} 1 17.1 131°.11 0°.3/17.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 24.11	+19 23.9	1.742	2.550	15.4	21.3
12 23	8 17.94	+19 30.3	1.672	2.561	11.6	21.1
1 2	8 9.08	+19 43.4	1.624	2.572	7.3	20.8
1 12	7 58.42	+19 59.7	1.603	2.583	2.6	20.6
1 22	7 47.14	+20 15.7	1.612	2.592	2.3	20.6
2 1	7 36.60	+20 28.6	1.650	2.602	7.0	20.9
2 11	7 27.99	+20 36.7	1.714	2.611	11.2	21.1
2 21	7 22.09	+20 39.9	1.802	2.619	14.7	21.4

213684 2002 TH_{142} 1 17.1 120°.22 1°.5/17.8 18

12 13	8 20.52	+14 59.1	1.925	2.724	14.5	21.2
12 23	8 15.00	+15 14.9	1.854	2.736	11.1	21.0
1 2	8 7.16	+15 41.1	1.805	2.749	7.1	20.8
1 12	7 57.75	+16 15.0	1.784	2.761	3.0	20.6
1 22	7 47.78	+16 53.0	1.793	2.772	2.4	20.5
2 1	7 38.40	+17 31.3	1.831	2.783	6.4	20.8
2 11	7 30.64	+18 6.9	1.896	2.794	10.2	21.1
2 21	7 25.20	+18 37.8	1.986	2.805	13.5	21.3

420435 2012 DA_{32} 1 17.1 300°.41 0°.3/17.3 18

12 13	8 18.11	+17 44.5	1.730	2.546	15.1	21.5
12 23	8 13.70	+18 13.1	1.645	2.539	11.5	21.2
1 2	8 6.64	+18 52.3	1.582	2.531	7.3	20.9
1 12	7 57.66	+19 38.4	1.545	2.525	2.6	20.6
1 22	7 47.81	+20 26.5	1.537	2.518	2.4	20.6
2 1	7 38.41	+21 11.8	1.557	2.511	7.1	20.9
2 11	7 30.71	+21 50.8	1.604	2.504	11.5	21.1
2 21	7 25.57	+22 21.5	1.673	2.498	15.3	21.3

104941 2000 JK_{35} 1 17.1 165°.39 1°.9/16.3 18

12 13	8 21.36	+24 35.0	2.095	2.904	13.0	20.7
12 23	8 15.68	+25 7.9	2.016	2.908	9.8	20.5
1 2	8 7.62	+25 43.7	1.962	2.911	6.2	20.3
1 12	7 57.93	+26 17.6	1.936	2.914	2.6	20.0
1 22	7 47.60	+26 45.3	1.940	2.916	3.0	20.1
2 1	7 37.80	+27 4.0	1.974	2.918	6.7	20.3
2 11	7 29.61	+27 12.6	2.035	2.919	10.3	20.5
2 21	7 23.74	+27 11.8	2.120	2.920	13.4	20.7

310043 2010 GJ_{136} 1 17.1 174°.96 0°.4/16.9 17

12 13	8 16.21	+20 21.1	2.836	3.635	10.3	21.3
12 23	8 11.24	+20 50.6	2.750	3.636	7.7	21.2
1 2	8 4.61	+21 24.6	2.690	3.638	4.8	21.0
1 12	7 56.85	+22 0.4	2.659	3.639	1.6	20.7
1 22	7 48.65	+22 35.0	2.660	3.639	1.7	20.7
2 1	7 40.75	+23 6.1	2.691	3.640	4.9	21.0
2 11	7 33.89	+23 31.9	2.752	3.640	7.8	21.2
2 21	7 28.63	+23 51.6	2.839	3.640	10.3	21.3

399288 2014 HZ_{131} 1 17.1 191°.00 0°.4/17.3 18

12 13	8 22.89	+17 50.1	2.114	2.909	13.5	22.7
12 23	8 16.80	+18 12.2	2.025	2.908	10.3	22.5
1 2	8 8.34	+18 42.1	1.960	2.905	6.5	22.3
1 12	7 58.20	+19 16.7	1.924	2.902	2.3	22.0
1 22	7 47.35	+19 52.3	1.918	2.898	2.1	22.0
2 1	7 36.91	+20 25.3	1.943	2.893	6.3	22.2
2 11	7 27.98	+20 53.3	1.996	2.887	10.1	22.5
2 21	7 21.31	+21 15.2	2.074	2.880	13.4	22.7

153357 2001 PN_{26} 1 17.1 134°.69 0°.9/16.4 18

12 13	8 13.48	+23 59.1	3.906	4.703	7.7	21.2
12 23	8 8.75	+24 20.5	3.828	4.714	5.8	21.0
1 2	8 2.86	+24 43.0	3.778	4.725	3.6	20.9
1 12	7 56.21	+25 4.7	3.758	4.736	1.4	20.7
1 22	7 49.30	+25 23.8	3.770	4.747	1.6	20.8
2 1	7 42.66	+25 38.9	3.813	4.757	3.8	20.9
2 11	7 36.78	+25 49.3	3.887	4.767	5.9	21.1
2 21	7 32.06	+25 54.8	3.987	4.777	7.8	21.3

92363 2000 HO_{31} 1 17.1 157°.69 1°.5/16.5 18

12 13	8 24.84	+23 22.2	1.999	2.803	13.8	20.7
12 23	8 18.33	+23 54.3	1.923	2.812	10.4	20.5
1 2	8 9.29	+24 30.1	1.872	2.820	6.5	20.3
1 12	7 58.52	+25 4.7	1.849	2.827	2.5	20.1
1 22	7 47.10	+25 33.5	1.856	2.834	2.9	20.1
2 1	7 36.30	+25 53.5	1.894	2.839	6.9	20.4
2 11	7 27.25	+26 3.6	1.959	2.844	10.6	20.6
2 21	7 20.72	+26 4.8	2.049	2.848	13.8	20.8

464554 2016 CX_{40} 1 17.1 45°.77 1°.5/16.5 18

12 13	8 19.84	+21 50.9	1.486	2.315	16.5	21.0
12 23	8 15.18	+22 34.1	1.426	2.328	12.4	20.7
1 2	8 7.58	+23 24.6	1.388	2.341	7.7	20.5
1 12	7 57.96	+24 16.2	1.375	2.354	2.8	20.2
1 22	7 47.65	+25 2.4	1.390	2.368	3.3	20.3
2 1	7 38.17	+25 38.5	1.432	2.383	8.0	20.6
2 11	7 30.83	+26 2.4	1.499	2.397	12.4	20.9
2 21	7 26.44	+26 14.5	1.588	2.412	16.0	21.2

461476 2002 RW_{159} 1 17.1 219°.42 3°.3/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 21.12	+30 24.7	2.313	3.122	12.0	21.1
12 23	8 15.40	+30 50.9	2.230	3.119	9.2	20.9
1 2	8 7.41	+31 14.9	2.172	3.116	6.1	20.7
1 12	7 57.87	+31 32.2	2.143	3.113	3.6	20.6
1 22	7 47.74	+31 39.1	2.143	3.109	4.1	20.6
2 1	7 38.12	+31 33.7	2.172	3.105	7.0	20.8
2 11	7 30.04	+31 16.3	2.229	3.102	10.0	20.9
2 21	7 24.19	+30 49.2	2.310	3.098	12.8	21.1

235733 2004 TR_{237} 1 17.1 139°.00 1°.7/17.9 18

12 13	8 22.76	+14 48.4	1.904	2.699	14.7	20.9
12 23	8 16.71	+14 59.2	1.831	2.711	11.3	20.7
1 2	8 8.25	+15 20.4	1.781	2.724	7.3	20.5
1 12	7 58.16	+15 49.4	1.759	2.735	3.2	20.2
1 22	7 47.49	+16 22.8	1.767	2.746	2.5	20.2
2 1	7 37.42	+16 57.0	1.804	2.756	6.5	20.5
2 11	7 29.05	+17 29.0	1.869	2.765	10.4	20.7
2 21	7 23.09	+17 57.0	1.958	2.774	13.8	21.0

492703 2014 PD_{70} 1 17.1 152°.32 0°.1/17.1 18

12 13	8 22.72	+20 1.9	2.099	2.899	13.4	22.6
12 23	8 16.57	+20 19.5	2.022	2.908	10.1	22.4
1 2	8 8.11	+20 42.6	1.970	2.917	6.3	22.2
1 12	7 58.10	+21 7.8	1.946	2.925	2.2	21.9
1 22	7 47.54	+21 31.7	1.952	2.932	2.1	21.9
2 1	7 37.52	+21 51.4	1.989	2.939	6.2	22.2
2 11	7 29.10	+22 5.4	2.054	2.945	9.9	22.5
2 21	7 22.96	+22 13.4	2.143	2.950	13.1	22.7

233163 2005 US_{449} 1 17.1 75°.93 0°.4/17.0 17

12 13	8 26.30	+21 32.9	1.361	2.184	18.0	20.4
12 23	8 20.05	+21 33.8	1.306	2.204	13.6	20.2
1 2	8 10.55	+21 40.2	1.273	2.225	8.4	19.9
1 12	7 58.95	+21 47.6	1.265	2.245	2.9	19.7
1 22	7 46.82	+21 52.1	1.284	2.265	2.8	19.7
2 1	7 35.84	+21 51.1	1.331	2.285	8.1	20.1
2 11	7 27.41	+21 44.2	1.403	2.305	12.8	20.4
2 21	7 22.27	+21 32.3	1.497	2.324	16.7	20.7

158505 2002 EO_{73} 1 17.1 238°.48 4°.2/19.2 18

12 13	8 16.70	+ 7 17.6	2.261	3.032	13.4	20.5
12 23	8 11.99	+ 7 9.4	2.165	3.023	10.8	20.3
1 2	8 5.28	+ 7 14.7	2.092	3.015	7.8	20.1
1 12	7 57.16	+ 7 33.6	2.047	3.005	5.1	19.9
1 22	7 48.41	+ 8 4.8	2.030	2.996	4.3	19.8
2 1	7 39.95	+ 8 45.6	2.042	2.986	6.5	19.9
2 11	7 32.68	+ 9 32.3	2.083	2.976	9.6	20.1
2 21	7 27.30	+10 21.3	2.148	2.966	12.6	20.3

410449 2008 CZ_{79} 1 17.1 142°.58 4°.0/15.6 18

12 13	8 24.58	+30 52.3	1.922	2.734	13.9	21.2
12 23	8 18.37	+31 26.5	1.850	2.740	10.7	21.0
1 2	8 9.41	+31 58.0	1.802	2.745	7.2	20.8
1 12	7 58.59	+32 20.7	1.781	2.750	4.3	20.6
1 22	7 47.12	+32 29.9	1.789	2.754	4.9	20.7
2 1	7 36.38	+32 23.5	1.826	2.759	8.1	20.9
2 11	7 27.62	+32 2.6	1.889	2.763	11.5	21.1
2 21	7 21.60	+31 30.3	1.976	2.767	14.6	21.3

368270 2002 CG_{199} 1 17.1 18°.02 3°.1/16.4 18

12 13	8 21.71	+28 17.0	1.428	2.262	16.7	20.5
12 23	8 16.77	+28 21.2	1.365	2.268	12.7	20.3
1 2	8 8.62	+28 23.5	1.324	2.275	8.2	20.1
1 12	7 58.33	+28 18.5	1.307	2.283	3.9	19.8
1 22	7 47.39	+28 2.4	1.317	2.292	4.3	19.9
2 1	7 37.47	+27 34.1	1.353	2.302	8.6	20.2
2 11	7 29.95	+26 55.4	1.415	2.313	13.0	20.4
2 21	7 25.63	+26 9.7	1.497	2.324	16.7	20.7

144106 2004 BW_{70} 1 17.1 258°.28 2°.8/15.9 17

12 13	8 21.47	+29 58.8	2.592	3.394	11.0	19.9
12 23	8 15.52	+30 12.0	2.492	3.377	8.5	19.7
1 2	8 7.45	+30 22.8	2.417	3.361	5.6	19.5
1 12	7 57.90	+30 27.6	2.372	3.344	3.1	19.3
1 22	7 47.73	+30 23.4	2.357	3.326	3.5	19.3
2 1	7 37.95	+30 8.6	2.373	3.309	6.3	19.5
2 11	7 29.50	+29 43.6	2.417	3.291	9.3	19.6
2 21	7 23.08	+29 10.3	2.487	3.272	12.1	19.8

518159 2016 GG_{259} 1 17.1 14°.82 4°.7/14.6 18

12 13	8 18.74	+30 38.2	1.922	2.744	13.5	20.8
12 23	8 14.14	+31 51.0	1.851	2.746	10.4	20.6
1 2	8 6.88	+33 3.5	1.805	2.749	7.1	20.4
1 12	7 57.76	+34 8.6	1.786	2.751	4.9	20.3
1 22	7 47.86	+34 59.6	1.795	2.754	5.7	20.3
2 1	7 38.52	+35 32.4	1.832	2.757	8.6	20.5
2 11	7 30.94	+35 46.6	1.895	2.761	11.9	20.7
2 21	7 25.96	+35 44.2	1.979	2.765	14.7	20.9

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
29736 Fichtelberg			1 17.1 337°62		5°6/15.1 18	
	h m	° ′			°	m
12 13	8 22.81	+30 18.3	1.373	2.208	17.2	18.2
12 23	8 18.18	+31 22.3	1.303	2.205	13.3	18.0
1 2	8 9.88	+32 26.8	1.254	2.202	9.0	17.7
1 12	7 58.89	+33 21.9	1.230	2.199	5.8	17.5
1 22	7 46.78	+33 58.7	1.232	2.196	6.8	17.6
2 1	7 35.49	+34 12.5	1.259	2.194	10.7	17.8
2 11	7 26.78	+34 3.7	1.310	2.192	15.0	18.0
2 21	7 21.70	+33 36.9	1.380	2.191	18.8	18.3
160786 2000 SM_{356}			1 17.1 80°82		6°3/14.2 18	
12 13	8 25.08	+31 18.8	1.503	2.329	16.4	19.5
12 23	8 19.49	+33 0.6	1.450	2.346	12.7	19.3
1 2	8 10.46	+34 41.2	1.420	2.362	8.8	19.1
1 12	7 59.02	+36 9.3	1.417	2.379	6.4	19.0
1 22	7 46.71	+37 15.3	1.441	2.395	7.4	19.1
2 1	7 35.33	+37 54.3	1.491	2.411	10.7	19.4
2 11	7 26.48	+38 7.6	1.566	2.427	14.2	19.6
2 21	7 21.06	+37 59.7	1.661	2.443	17.3	19.9
230502 2002 TR_{288}			1 17.1 106°50		1°5/16.7 18	
12 13	8 27.56	+23 33.7	1.532	2.348	16.7	20.3
12 23	8 20.82	+23 50.2	1.472	2.367	12.6	20.1
1 2	8 10.98	+24 10.1	1.435	2.385	7.8	19.8
1 12	7 59.11	+24 28.0	1.424	2.403	2.9	19.6
1 22	7 46.68	+24 39.2	1.442	2.420	3.2	19.6
2 1	7 35.28	+24 41.3	1.488	2.437	7.9	20.0
2 11	7 26.26	+24 34.2	1.560	2.453	12.3	20.3
2 21	7 20.38	+24 19.8	1.654	2.469	15.9	20.5
309363 2007 TQ_{89}			1 17.1 5°39		1°2/16.7 16	
12 13	8 17.36	+20 39.4	1.271	2.111	18.0	20.7
12 23	8 13.89	+21 19.9	1.203	2.111	13.6	20.4
1 2	8 7.10	+22 11.2	1.156	2.112	8.5	20.1
1 12	7 57.90	+23 7.0	1.133	2.113	3.0	19.8
1 22	7 47.74	+23 59.9	1.136	2.116	3.4	19.8
2 1	7 38.33	+24 43.6	1.164	2.119	8.8	20.2
2 11	7 31.27	+25 14.5	1.216	2.123	13.9	20.5
2 21	7 27.51	+25 32.3	1.288	2.128	18.1	20.7
207530 2006 KT_{11}			1 17.1 258°72		0°1/17.2 18	
12 13	8 20.24	+18 3.6	1.714	2.527	15.3	20.6
12 23	8 15.46	+18 36.8	1.621	2.514	11.7	20.4
1 2	8 7.87	+19 21.1	1.552	2.501	7.4	20.1
1 12	7 58.16	+20 12.4	1.509	2.488	2.6	19.8
1 22	7 47.44	+21 5.5	1.494	2.474	2.5	19.7
2 1	7 37.07	+21 54.9	1.508	2.461	7.4	20.0
2 11	7 28.43	+22 36.9	1.548	2.447	12.0	20.2
2 21	7 22.49	+23 9.7	1.611	2.433	16.0	20.4
17637 Blaschke			1 17.1 115°08		1°3/17.8 18	
12 13	8 21.37	+14 42.6	1.704	2.508	15.8	18.3
12 23	8 15.96	+15 13.9	1.635	2.521	12.1	18.1
1 2	8 7.92	+15 58.1	1.588	2.533	7.8	17.9
1 12	7 58.09	+16 51.5	1.568	2.545	3.1	17.6
1 22	7 47.60	+17 48.9	1.577	2.557	2.5	17.6
2 1	7 37.75	+18 45.0	1.615	2.569	7.0	17.9
2 11	7 29.73	+19 35.8	1.680	2.579	11.2	18.2
2 21	7 24.31	+20 18.8	1.768	2.590	14.8	18.4
8936 Gianni			1 17.1 133°07		0°2/17.0 18	
12 13	8 23.86	+19 3.2	1.564	2.379	16.5	17.9
12 23	8 18.13	+19 36.9	1.495	2.388	12.5	17.7
1 2	8 9.43	+20 20.3	1.448	2.398	7.8	17.5
1 12	7 58.64	+21 8.1	1.427	2.407	2.7	17.2
1 22	7 47.08	+21 54.6	1.435	2.415	2.6	17.2
2 1	7 36.26	+22 34.8	1.471	2.423	7.7	17.5
2 11	7 27.54	+23 5.8	1.533	2.430	12.2	17.8
2 21	7 21.79	+23 27.2	1.618	2.437	16.0	18.0
329843 2004 TQ_{64}			1 17.1 95°39		3°7/18.9 18	
12 13	8 18.01	+ 8 55.2	2.100	2.879	14.1	21.2
12 23	8 12.89	+ 8 51.5	2.029	2.894	11.1	21.0
1 2	8 5.76	+ 9 1.2	1.982	2.910	7.7	20.9
1 12	7 57.29	+ 9 23.4	1.961	2.925	4.7	20.7
1 22	7 48.38	+ 9 56.0	1.969	2.940	3.9	20.7
2 1	7 39.97	+10 35.8	2.007	2.955	6.4	20.9
2 11	7 32.98	+11 19.1	2.073	2.969	9.5	21.1
2 21	7 28.01	+12 2.5	2.163	2.983	12.5	21.3
302885 2003 NC_2			1 17.1 164°53		3°9/18.7 18	
12 13	8 21.84	+ 9 35.6	2.104	2.878	14.2	21.6
12 23	8 15.84	+ 9 16.2	2.021	2.884	11.2	21.4
1 2	8 7.65	+ 9 8.8	1.962	2.889	7.9	21.2
1 12	7 57.97	+ 9 13.1	1.931	2.894	4.8	21.0
1 22	7 47.72	+ 9 27.9	1.929	2.898	4.1	21.0
2 1	7 37.94	+ 9 50.8	1.957	2.901	6.7	21.2
2 11	7 29.63	+10 18.9	2.013	2.904	10.1	21.4
2 21	7 23.46	+10 49.1	2.094	2.906	13.1	21.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
299040 2005 AC_{66}			1 17.1 17°13		0°5/17.3 18	
	h m	° ′			°	m
12 13	8 18.61	+19 24.2	1.167	2.010	19.2	20.8
12 23	8 14.87	+19 23.0	1.107	2.015	14.6	20.6
1 2	8 7.67	+19 31.5	1.066	2.021	9.2	20.3
1 12	7 58.08	+19 45.9	1.049	2.028	3.3	20.0
1 22	7 47.66	+20 1.8	1.056	2.037	2.9	20.0
2 1	7 38.21	+20 15.0	1.088	2.047	8.7	20.3
2 11	7 31.30	+20 23.2	1.143	2.057	13.9	20.7
2 21	7 27.81	+20 25.7	1.219	2.069	18.3	21.0
179137 2001 SV_{305}			1 17.1 182°97		1°0/16.7 18	
12 13	8 21.07	+22 32.3	2.128	2.934	13.0	21.0
12 23	8 15.43	+22 55.4	2.045	2.935	9.8	20.8
1 2	8 7.49	+23 22.4	1.986	2.935	6.1	20.6
1 12	7 57.94	+23 49.5	1.956	2.935	2.2	20.3
1 22	7 47.76	+24 13.1	1.955	2.934	2.5	20.4
2 1	7 38.05	+24 30.2	1.985	2.933	6.4	20.6
2 11	7 29.88	+24 39.6	2.042	2.931	10.0	20.8
2 21	7 23.97	+24 41.5	2.124	2.929	13.2	21.0
231233 2005 XZ_{37}			1 17.1 120°10		1°2/16.6 18	
12 13	8 19.34	+22 18.2	2.013	2.826	13.4	20.6
12 23	8 14.23	+22 51.3	1.936	2.830	10.1	20.3
1 2	8 6.77	+23 29.4	1.883	2.834	6.3	20.1
1 12	7 57.70	+24 8.0	1.858	2.838	2.3	19.9
1 22	7 48.00	+24 42.9	1.863	2.841	2.6	19.9
2 1	7 38.81	+25 10.6	1.897	2.845	6.6	20.2
2 11	7 31.20	+25 29.4	1.958	2.848	10.3	20.4
2 21	7 25.90	+25 39.3	2.042	2.852	13.5	20.6
445168 2009 AY_{17}			1 17.1 59°82		1°3/17.4 16	
12 13	8 27.31	+19 31.6	1.306	2.127	18.8	20.9
12 23	8 20.70	+18 57.4	1.257	2.153	14.2	20.7
1 2	8 10.87	+18 29.7	1.229	2.179	8.9	20.4
1 12	7 59.05	+18 6.5	1.226	2.204	3.4	20.2
1 22	7 46.86	+17 46.1	1.250	2.230	2.9	20.2
2 1	7 35.97	+17 27.3	1.302	2.257	8.1	20.6
2 11	7 27.71	+17 9.6	1.378	2.283	12.8	20.9
2 21	7 22.75	+16 52.9	1.477	2.309	16.6	21.3
422954 2002 WA_3			1 17.1 46°24		5°8/14.3 15	
12 13	8 22.61	+32 34.4	1.733	2.554	14.8	20.5
12 23	8 17.01	+34 6.2	1.695	2.588	11.4	20.3
1 2	8 8.57	+35 33.4	1.682	2.621	8.0	20.2
1 12	7 58.29	+36 47.0	1.696	2.655	5.9	20.1
1 22	7 47.52	+37 40.3	1.738	2.689	6.7	20.3
2 1	7 37.70	+38 10.4	1.807	2.723	9.4	20.5
2 11	7 30.08	+38 18.7	1.901	2.757	12.3	20.7
2 21	7 25.33	+38 9.4	2.017	2.791	14.9	21.0
22454 Rosalylopes			1 17.1 177°27		0°5/16.9 18	
12 13	8 23.97	+20 9.0	1.560	2.376	16.5	19.5
12 23	8 18.36	+20 36.6	1.483	2.377	12.5	19.3
1 2	8 9.67	+21 12.7	1.428	2.378	7.8	19.0
1 12	7 58.77	+21 52.4	1.400	2.379	2.7	18.7
1 22	7 46.97	+22 30.0	1.399	2.379	2.8	18.7
2 1	7 35.82	+23 1.0	1.427	2.379	7.9	19.0
2 11	7 26.78	+23 23.0	1.481	2.378	12.6	19.3
2 21	7 20.77	+23 35.7	1.557	2.377	16.5	19.5
348520 2005 UQ_{56}			1 17.1 91°16		2°9/16.3 18	
12 13	8 26.99	+26 30.6	1.432	2.256	17.2	21.0
12 23	8 20.70	+26 55.1	1.373	2.271	13.0	20.7
1 2	8 11.06	+27 20.7	1.335	2.286	8.3	20.5
1 12	7 59.19	+27 40.4	1.324	2.301	3.7	20.3
1 22	7 46.68	+27 49.0	1.340	2.315	4.2	20.3
2 1	7 35.26	+27 44.1	1.383	2.329	8.7	20.6
2 11	7 26.41	+27 26.6	1.452	2.344	13.1	20.9
2 21	7 20.92	+26 59.7	1.542	2.357	16.9	21.2
277199 2005 QN_{56}			1 17.1 177°12		2°5/16.2 18	
12 13	8 26.74	+25 42.0	1.827	2.636	14.7	21.7
12 23	8 20.13	+26 17.3	1.748	2.639	11.2	21.5
1 2	8 10.63	+26 54.8	1.693	2.641	7.1	21.3
1 12	7 59.09	+27 28.8	1.666	2.642	3.2	21.0
1 22	7 46.74	+27 53.7	1.668	2.643	3.7	21.1
2 1	7 35.05	+28 6.3	1.700	2.642	7.8	21.3
2 11	7 25.34	+28 6.2	1.759	2.641	11.8	21.6
2 21	7 18.49	+27 55.4	1.840	2.639	15.2	21.8
381253 2007 TX_{125}			1 17.1 14°68		0°1/17.1 18	
12 13	8 16.09	+19 50.2	1.814	2.634	14.3	20.8
12 23	8 11.94	+20 5.2	1.742	2.639	10.8	20.6
1 2	8 5.40	+20 26.9	1.693	2.644	6.7	20.4
1 12	7 57.25	+20 52.1	1.670	2.650	2.3	20.1
1 22	7 48.50	+21 17.1	1.675	2.656	2.2	20.1
2 1	7 40.33	+21 38.7	1.709	2.663	6.6	20.4
2 11	7 33.80	+21 54.8	1.769	2.671	10.6	20.6
2 21	7 29.63	+22 4.7	1.852	2.680	14.0	20.9

279906 2001 QD_{244} 1 17.1 149°.12 3°.0/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 20.20	+31 12.7	2.919	3.718	10.0	21.5
12 23	8 14.24	+31 44.5	2.844	3.727	7.6	21.4
1 2	8 6.49	+32 13.8	2.796	3.735	5.1	21.2
1 12	7 57.57	+32 36.8	2.777	3.743	3.2	21.1
1 22	7 48.24	+32 50.7	2.789	3.751	3.7	21.1
2 1	7 39.35	+32 53.8	2.831	3.758	5.9	21.3
2 11	7 31.70	+32 46.2	2.903	3.765	8.3	21.5
2 21	7 25.84	+32 29.6	2.999	3.771	10.5	21.6

251053 2006 RM_{62} 1 17.1 80°.54 0°.8/16.8 18

12 13	8 21.64	+20 46.1	1.692	2.509	15.4	20.7
12 23	8 16.17	+21 20.3	1.631	2.526	11.5	20.5
1 2	8 8.05	+22 1.4	1.593	2.544	7.1	20.3
1 12	7 58.16	+22 44.2	1.582	2.561	2.5	20.0
1 22	7 47.70	+23 23.7	1.599	2.578	2.6	20.1
2 1	7 38.00	+23 55.7	1.645	2.596	7.2	20.4
2 11	7 30.25	+24 18.4	1.717	2.613	11.2	20.7
2 21	7 25.18	+24 31.8	1.812	2.629	14.7	20.9

269137 2007 TM_{177} 1 17.1 335°.82 5°.5/19.4 18

12 13	8 14.10	+ 6 23.5	1.893	2.677	15.2	20.4
12 23	8 10.40	+ 5 51.9	1.802	2.665	12.4	20.1
1 2	8 4.48	+ 5 35.5	1.733	2.654	9.2	19.9
1 12	7 56.97	+ 5 35.6	1.688	2.643	6.4	19.7
1 22	7 48.74	+ 5 52.0	1.671	2.633	5.6	19.7
2 1	7 40.86	+ 6 22.4	1.680	2.623	7.8	19.8
2 11	7 34.36	+ 7 2.9	1.716	2.614	11.1	19.9
2 21	7 29.99	+ 7 49.1	1.775	2.606	14.3	20.1

363140 2001 QS_{259} 1 17.1 112°.31 5°.6/20.2 18

12 13	8 19.51	+ 2 42.4	2.214	2.961	14.4	21.3
12 23	8 13.87	+ 2 25.1	2.145	2.982	11.7	21.1
1 2	8 6.31	+ 2 24.3	2.100	3.002	8.9	21.0
1 12	7 57.51	+ 2 40.6	2.080	3.022	6.5	20.9
1 22	7 48.31	+ 3 12.5	2.090	3.042	5.7	20.9
2 1	7 39.62	+ 3 57.2	2.129	3.061	7.2	21.0
2 11	7 32.30	+ 4 50.2	2.196	3.079	9.7	21.2
2 21	7 26.92	+ 5 47.2	2.287	3.096	12.3	21.4

467320 2001 HV_{38} 1 17.1 293°.60 1°.7/17.9 17

12 13	8 17.12	+15 17.1	2.031	2.834	13.7	21.2
12 23	8 12.69	+15 18.2	1.929	2.814	10.6	20.9
1 2	8 5.94	+15 28.6	1.851	2.795	7.0	20.7
1 12	7 57.50	+15 46.9	1.799	2.775	3.1	20.4
1 22	7 48.25	+16 10.6	1.776	2.755	2.5	20.3
2 1	7 39.26	+16 36.9	1.782	2.736	6.4	20.5
2 11	7 31.63	+17 2.8	1.816	2.716	10.4	20.7
2 21	7 26.17	+17 26.4	1.873	2.697	14.0	20.9

327254 2005 SB_{106} 1 17.2 160°.02 5°.1/19.9 18

12 13	8 18.25	+ 3 39.5	2.427	3.174	13.2	21.1
12 23	8 12.91	+ 3 24.6	2.343	3.181	10.8	20.9
1 2	8 5.76	+ 3 24.3	2.282	3.187	8.2	20.8
1 12	7 57.37	+ 3 39.1	2.248	3.193	5.8	20.6
1 22	7 48.50	+ 4 7.9	2.244	3.198	5.1	20.6
2 1	7 40.00	+ 4 48.3	2.269	3.202	6.7	20.7
2 11	7 32.67	+ 5 36.8	2.322	3.206	9.2	20.9
2 21	7 27.12	+ 6 29.2	2.401	3.209	11.8	21.1

250240 2002 XY_{79} 1 17.2 40°.65 4°.2/15.6 17

12 13	8 22.16	+26 51.7	1.267	2.107	18.1	19.5
12 23	8 17.29	+27 56.9	1.226	2.133	13.6	19.3
1 2	8 9.01	+29 3.6	1.207	2.160	8.7	19.1
1 12	7 58.53	+30 2.4	1.213	2.187	4.6	18.9
1 22	7 47.51	+30 45.7	1.244	2.215	5.4	19.0
2 1	7 37.72	+31 9.3	1.301	2.244	9.6	19.4
2 11	7 30.59	+31 14.0	1.382	2.273	13.7	19.7
2 21	7 26.84	+31 3.3	1.484	2.303	17.2	20.0

185196 2006 TR_{10} 1 17.2 169°.28 4°.9/19.5 18

12 13	8 17.88	+ 6 25.1	1.890	2.667	15.5	20.9
12 23	8 13.18	+ 6 19.4	1.807	2.668	12.4	20.7
1 2	8 6.18	+ 6 30.8	1.746	2.669	9.0	20.4
1 12	7 57.57	+ 6 59.2	1.711	2.670	5.9	20.3
1 22	7 48.29	+ 7 42.6	1.704	2.670	5.0	20.2
2 1	7 39.44	+ 8 37.2	1.725	2.671	7.4	20.4
2 11	7 32.08	+ 9 38.1	1.773	2.671	10.8	20.6
2 21	7 26.94	+10 40.1	1.845	2.671	14.1	20.8

242645 2005 NK_{21} 1 17.2 256°.94 2°.8/18.8 18

12 13	8 22.42	+ 5 53.3	1.154	1.958	21.8	20.2
12 23	8 18.33	+ 7 37.8	1.069	1.951	17.3	19.9
1 2	8 10.40	+10 4.4	1.004	1.944	11.8	19.6
1 12	7 59.31	+13 8.5	0.963	1.937	5.6	19.2
1 22	7 46.49	+16 35.5	0.949	1.930	3.7	19.1
2 1	7 33.94	+20 4.9	0.965	1.922	9.8	19.4
2 11	7 23.78	+23 17.3	1.006	1.914	16.0	19.7
2 21	7 17.45	+26 1.4	1.069	1.907	21.2	20.0

289891 2005 MY_{32} 1 17.2 122°.12 1°.2/17.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 20.02	+14 48.2	2.122	2.915	13.5	21.2
12 23	8 14.49	+15 17.4	2.050	2.930	10.3	21.1
1 2	8 6.83	+15 56.7	2.002	2.945	6.6	20.9
1 12	7 57.75	+16 43.1	1.983	2.959	2.7	20.6
1 22	7 48.16	+17 32.7	1.993	2.973	2.1	20.6
2 1	7 39.08	+18 21.7	2.034	2.986	5.9	20.9
2 11	7 31.46	+19 6.6	2.103	2.999	9.5	21.1
2 21	7 25.96	+19 45.7	2.198	3.011	12.5	21.3

453057 2007 TT_{253} 1 17.2 129°.51 0°.6/17.4 18

12 13	8 21.72	+17 53.1	1.735	2.544	15.3	21.9
12 23	8 16.27	+18 10.6	1.662	2.552	11.7	21.6
1 2	8 8.19	+18 37.1	1.611	2.559	7.4	21.4
1 12	7 58.27	+19 9.1	1.587	2.566	2.7	21.1
1 22	7 47.68	+19 42.4	1.592	2.573	2.3	21.1
2 1	7 37.71	+20 13.1	1.626	2.579	7.0	21.4
2 11	7 29.58	+20 38.5	1.686	2.585	11.2	21.7
2 21	7 24.06	+20 57.6	1.770	2.591	14.8	21.9

413838 2006 SF_{92} 1 17.2 253°.69 7°.7/13.8 18

12 13	8 26.24	+38 54.0	1.830	2.639	14.7	21.3
12 23	8 20.35	+40 4.7	1.753	2.631	11.9	21.1
1 2	8 11.09	+41 8.1	1.700	2.623	9.2	21.0
1 12	7 59.37	+41 54.7	1.673	2.615	7.7	20.9
1 22	7 46.61	+42 17.1	1.673	2.607	8.5	20.9
2 1	7 34.56	+42 12.2	1.699	2.598	11.0	21.0
2 11	7 24.81	+41 42.1	1.749	2.590	14.0	21.2
2 21	7 18.38	+40 52.7	1.820	2.581	16.8	21.4

7662 1994 RM_{1} 1 17.2 170°.26 6°.1/21.0 18

12 13	8 14.30	− 1 44.4	2.830	3.549	12.2	18.0
12 23	8 9.76	− 2 8.7	2.742	3.551	10.3	17.9
1 2	8 3.72	− 2 18.0	2.677	3.552	8.3	17.8
1 12	7 56.66	− 2 11.0	2.637	3.554	6.7	17.7
1 22	7 49.19	− 1 47.9	2.626	3.555	6.1	17.6
2 1	7 41.99	− 1 10.3	2.643	3.556	6.9	17.7
2 11	7 35.73	− 0 21.4	2.689	3.557	8.7	17.8
2 21	7 30.92	+ 0 34.7	2.759	3.557	10.7	17.9

88273 2001 LB_{17} 1 17.2 187°.62 3°.8/18.6 18

12 13	8 22.59	+10 33.9	1.843	2.627	15.5	20.3
12 23	8 16.82	+10 20.0	1.757	2.627	12.3	20.1
1 2	8 8.51	+10 19.1	1.694	2.626	8.5	19.8
1 12	7 58.41	+10 31.0	1.657	2.625	4.9	19.6
1 22	7 47.54	+10 53.8	1.650	2.622	4.1	19.6
2 1	7 37.16	+11 24.4	1.671	2.619	7.3	19.7
2 11	7 28.42	+11 59.2	1.720	2.616	11.2	20.0
2 21	7 22.14	+12 34.9	1.792	2.611	14.7	20.2

192317 1994 PO_{26} 1 17.2 113°.93 2°.6/16.3 18

12 13	8 27.03	+25 53.8	1.644	2.459	15.8	20.8
12 23	8 20.39	+26 24.3	1.582	2.476	11.9	20.6
1 2	8 10.76	+26 56.2	1.543	2.492	7.5	20.4
1 12	7 59.15	+27 23.5	1.531	2.508	3.3	20.1
1 22	7 46.93	+27 41.0	1.548	2.523	3.8	20.2
2 1	7 35.66	+27 45.9	1.594	2.538	8.0	20.5
2 11	7 26.64	+27 38.7	1.666	2.552	12.1	20.8
2 21	7 20.65	+27 21.7	1.760	2.566	15.5	21.0

5605 Kushida 1 17.2 294°.75 3°.4/16.0 18

12 13	8 22.79	+26 27.8	1.389	2.222	17.2	16.7
12 23	8 18.16	+27 4.4	1.307	2.210	13.2	16.4
1 2	8 9.95	+27 44.7	1.246	2.198	8.5	16.1
1 12	7 59.04	+28 21.2	1.210	2.186	4.1	15.8
1 22	7 46.91	+28 46.7	1.200	2.175	4.8	15.8
2 1	7 35.41	+28 56.3	1.217	2.163	9.6	16.0
2 11	7 26.31	+28 49.6	1.257	2.152	14.5	16.3
2 21	7 20.73	+28 29.3	1.318	2.141	18.8	16.5

410510 2008 EC_{115} 1 17.2 341°.77 12°.6/13.7 18

12 13	8 36.84	+51 30.5	1.617	2.396	17.6	20.4
12 23	8 29.34	+52 32.4	1.554	2.391	15.4	20.2
1 2	8 17.04	+53 13.2	1.512	2.387	13.6	20.1
1 12	8 1.41	+53 20.1	1.492	2.383	12.7	20.0
1 22	7 44.88	+52 45.2	1.495	2.380	13.1	20.0
2 1	7 30.13	+51 29.0	1.522	2.377	14.8	20.1
2 11	7 19.23	+49 39.8	1.571	2.375	17.0	20.3
2 21	7 13.04	+47 29.3	1.639	2.373	19.4	20.4

42334 2001 XG_{222} 1 17.2 274°.39 0°.4/17.3 18

12 13	8 22.04	+19 3.8	1.604	2.420	16.1	20.1
12 23	8 17.13	+19 11.7	1.505	2.399	12.4	19.8
1 2	8 9.13	+19 28.1	1.428	2.378	7.9	19.5
1 12	7 58.75	+19 49.9	1.377	2.357	2.9	19.2
1 22	7 47.16	+20 13.0	1.354	2.335	2.6	19.1
2 1	7 35.89	+20 33.4	1.359	2.313	8.0	19.3
2 11	7 26.49	+20 48.6	1.390	2.291	12.9	19.6
2 21	7 20.03	+20 57.5	1.442	2.268	17.3	19.8

381574 2008 UZ_{126} 1 17.2 90°.63 0°.8/16.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 19.31	+21 45.9	2.261	3.067	12.3	21.7
12 23	8 13.85	+22 11.3	2.196	3.085	9.2	21.6
1 2	8 6.37	+22 40.6	2.155	3.103	5.7	21.4
1 12	7 57.59	+23 10.3	2.142	3.121	2.0	21.2
1 22	7 48.39	+23 37.0	2.160	3.139	2.2	21.2
2 1	7 39.74	+23 58.2	2.208	3.156	5.8	21.5
2 11	7 32.54	+24 12.6	2.284	3.173	9.1	21.7
2 21	7 27.37	+24 20.1	2.384	3.190	11.9	21.9

255913 2006 SE_{354} 1 17.2 153°.08 0°.8/16.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.90	+21 16.6	2.271	3.071	12.5	21.8
12 23	8 15.89	+21 49.7	2.194	3.080	9.4	21.6
1 2	8 7.72	+22 27.6	2.142	3.089	5.8	21.4
1 12	7 58.09	+23 6.5	2.119	3.098	2.1	21.1
1 22	7 47.90	+23 42.3	2.126	3.105	2.2	21.2
2 1	7 38.20	+24 12.1	2.165	3.112	6.0	21.4
2 11	7 29.96	+24 34.1	2.232	3.118	9.4	21.6
2 21	7 23.83	+24 48.2	2.324	3.124	12.4	21.8

238087 2003 FF_{123} 1 17.2 289°.93 0°.4/17.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.29	+18 16.7	1.443	2.267	17.1	21.1
12 23	8 15.98	+18 35.5	1.355	2.254	13.2	20.8
1 2	8 8.47	+19 5.7	1.290	2.241	8.4	20.5
1 12	7 58.52	+19 43.6	1.249	2.228	3.0	20.1
1 22	7 47.41	+20 23.8	1.234	2.215	2.7	20.1
2 1	7 36.76	+21 1.0	1.247	2.203	8.3	20.4
2 11	7 28.17	+21 31.5	1.284	2.190	13.4	20.6
2 21	7 22.71	+21 53.8	1.343	2.178	17.8	20.9

500220 2012 HV_{57} 1 17.2 264°.33 2°.5/18.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.94	+14 15.0	2.069	2.863	13.8	21.5
12 23	8 14.74	+13 55.7	1.967	2.845	10.7	21.2
1 2	8 7.21	+13 44.6	1.888	2.828	7.2	21.0
1 12	7 57.98	+13 41.2	1.837	2.810	3.6	20.7
1 22	7 47.95	+13 44.0	1.815	2.791	3.0	20.6
2 1	7 38.22	+13 51.4	1.822	2.773	6.6	20.8
2 11	7 29.87	+14 1.4	1.857	2.754	10.4	21.0
2 21	7 23.70	+14 12.2	1.916	2.735	13.9	21.2

412936 2014 QQ_{203} 1 17.2 216°.97 1°.0/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.73	+16 45.5	1.945	2.744	14.3	22.4
12 23	8 16.20	+16 56.5	1.853	2.737	11.0	22.2
1 2	8 8.16	+17 16.5	1.784	2.729	7.0	22.0
1 12	7 58.31	+17 42.8	1.743	2.721	2.8	21.7
1 22	7 47.65	+18 12.2	1.732	2.712	2.3	21.6
2 1	7 37.38	+18 41.2	1.750	2.702	6.6	21.9
2 11	7 28.68	+19 7.0	1.796	2.692	10.8	22.1
2 21	7 22.38	+19 28.3	1.865	2.681	14.3	22.3

445029 2008 QT_{9} 1 17.2 71°.66 4°.1/18.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.95	+ 9 13.8	1.370	2.174	18.9	21.3
12 23	8 16.05	+ 9 24.4	1.311	2.192	14.9	21.1
1 2	8 8.18	+ 9 55.5	1.272	2.209	10.2	20.9
1 12	7 58.30	+10 44.9	1.257	2.227	5.7	20.7
1 22	7 47.75	+11 47.8	1.269	2.244	4.4	20.7
2 1	7 38.04	+12 57.4	1.307	2.261	8.2	20.9
2 11	7 30.50	+14 7.0	1.371	2.279	12.6	21.2
2 21	7 25.94	+15 11.4	1.457	2.296	16.5	21.5

430311 2013 XU_{10} 1 17.2 39°.00 4°.0/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.31	+30 31.0	2.098	2.915	12.8	20.9
12 23	8 14.31	+31 21.8	2.027	2.919	9.8	20.7
1 2	8 6.90	+32 11.4	1.980	2.924	6.6	20.5
1 12	7 57.84	+32 53.8	1.961	2.929	4.2	20.4
1 22	7 48.15	+33 24.2	1.971	2.934	4.9	20.4
2 1	7 39.02	+33 39.7	2.010	2.939	7.7	20.6
2 11	7 31.55	+33 40.1	2.074	2.945	10.8	20.8
2 21	7 26.45	+33 27.6	2.162	2.950	13.6	21.0

79336 1996 TV_{20} 1 17.2 353°.51 9°.1/21.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.39	− 4 4.2	2.036	2.765	16.0	19.3
12 23	8 10.43	− 5 2.5	1.954	2.763	13.9	19.2
1 2	8 4.42	− 5 40.4	1.892	2.760	11.6	19.0
1 12	7 56.98	− 5 54.3	1.854	2.758	9.8	18.9
1 22	7 48.94	− 5 43.1	1.840	2.757	9.1	18.8
2 1	7 41.26	− 5 8.0	1.852	2.756	10.0	18.9
2 11	7 34.87	− 4 13.7	1.890	2.756	11.9	19.0
2 21	7 30.46	− 3 6.1	1.949	2.755	14.2	19.2

254827 2005 QP_{150} 1 17.2 232°.54 4°.9/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.31	+32 8.4	2.057	2.868	13.2	20.9
12 23	8 17.61	+33 9.0	1.971	2.859	10.3	20.7
1 2	8 9.16	+34 8.3	1.910	2.849	7.2	20.5
1 12	7 58.69	+34 59.1	1.876	2.839	5.0	20.4
1 22	7 47.31	+35 35.2	1.872	2.828	5.7	20.4
2 1	7 36.38	+35 53.0	1.896	2.817	8.6	20.5
2 11	7 27.20	+35 52.4	1.946	2.806	11.9	20.7
2 21	7 20.67	+35 36.1	2.019	2.795	14.8	20.9

113198 2002 RE_{111} 1 17.2 133°.39 1°.2/17.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 18.09	+16 27.2	2.470	3.263	11.8	19.5
12 23	8 12.80	+16 25.6	2.390	3.271	9.0	19.4
1 2	8 5.69	+16 30.3	2.335	3.278	5.8	19.2
1 12	7 57.37	+16 39.8	2.309	3.285	2.4	19.0
1 22	7 48.62	+16 52.1	2.313	3.292	2.0	18.9
2 1	7 40.29	+17 5.3	2.347	3.299	5.2	19.2
2 11	7 33.20	+17 17.7	2.410	3.305	8.4	19.4
2 21	7 27.91	+17 28.1	2.499	3.311	11.2	19.6

265825 2005 YX_{6} 1 17.2 91°.21 3°.0/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.45	+26 35.5	1.925	2.743	13.7	20.6
12 23	8 15.29	+27 26.5	1.853	2.748	10.4	20.4
1 2	8 7.58	+28 19.7	1.805	2.754	6.7	20.2
1 12	7 58.10	+29 9.1	1.785	2.759	3.4	20.0
1 22	7 47.93	+29 49.2	1.794	2.765	4.1	20.0
2 1	7 38.34	+30 16.3	1.831	2.771	7.6	20.3
2 11	7 30.50	+30 29.4	1.895	2.776	11.1	20.5
2 21	7 25.18	+30 30.0	1.982	2.782	14.2	20.7

492420 2014 LK_{5} 1 17.2 133°.87 2°.1/16.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.76	+23 16.7	1.775	2.588	14.9	21.5
12 23	8 17.89	+24 11.2	1.706	2.599	11.2	21.3
1 2	8 9.25	+25 11.1	1.660	2.610	7.0	21.1
1 12	7 58.69	+26 10.1	1.642	2.620	2.9	20.9
1 22	7 47.41	+27 2.0	1.654	2.630	3.5	20.9
2 1	7 36.78	+27 41.9	1.694	2.639	7.6	21.2
2 11	7 28.08	+28 8.4	1.762	2.647	11.6	21.5
2 21	7 22.12	+28 22.1	1.852	2.655	14.9	21.7

241910 2002 AH_{12} 1 17.2 13°.46 0°.9/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.62	+22 1.5	1.235	2.074	18.5	19.9
12 23	8 16.42	+22 11.1	1.169	2.076	14.1	19.6
1 2	8 8.74	+22 27.3	1.124	2.079	8.8	19.3
1 12	7 58.58	+22 45.3	1.102	2.082	3.1	19.0
1 22	7 47.52	+22 59.8	1.106	2.086	3.2	19.0
2 1	7 37.38	+23 7.0	1.135	2.091	8.9	19.4
2 11	7 29.77	+23 5.7	1.188	2.097	14.0	19.7
2 21	7 25.61	+22 56.6	1.262	2.104	18.3	20.0

453134 2008 AM_{45} 1 17.2 48°.98 1°.0/16.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.85	+17 5.6	1.323	2.149	18.3	20.1
12 23	8 16.14	+18 37.7	1.275	2.176	13.7	19.9
1 2	8 8.30	+20 24.5	1.250	2.203	8.4	19.7
1 12	7 58.36	+22 16.7	1.250	2.230	2.8	19.4
1 22	7 47.77	+24 3.6	1.278	2.258	3.2	19.5
2 1	7 38.12	+25 36.4	1.334	2.286	8.3	19.9
2 11	7 30.83	+26 50.2	1.415	2.314	12.9	20.2
2 21	7 26.66	+27 44.6	1.517	2.342	16.6	20.5

174 Phaedra 1 17.2 226°.85 3°.0/15.9 18 A

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.59	+29 53.6	2.385	3.189	11.8	13.6
12 23	8 16.52	+30 12.3	2.295	3.181	9.0	13.4
1 2	8 8.19	+30 29.0	2.230	3.173	6.0	13.2
1 12	7 58.29	+30 39.2	2.194	3.165	3.3	13.0
1 22	7 47.78	+30 39.7	2.187	3.156	3.8	13.0
2 1	7 37.74	+30 28.7	2.211	3.147	6.7	13.2
2 11	7 29.19	+30 6.7	2.264	3.138	9.9	13.4
2 21	7 22.84	+29 35.8	2.340	3.128	12.7	13.6

427708 2004 FZ_{102} 1 17.2 206°.04 2°.8/15.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.23	+30 32.0	2.997	3.797	9.8	22.4
12 23	8 13.60	+31 1.7	2.908	3.792	7.5	22.3
1 2	8 6.19	+31 29.7	2.846	3.787	5.0	22.1
1 12	7 57.57	+31 52.4	2.813	3.781	3.0	21.9
1 22	7 48.46	+32 6.7	2.810	3.775	3.5	22.0
2 1	7 39.70	+32 11.0	2.839	3.768	5.8	22.1
2 11	7 32.06	+32 5.2	2.896	3.761	8.3	22.3
2 21	7 26.14	+31 50.3	2.979	3.753	10.5	22.4

445908 2012 WE_{35} 1 17.2 55°.69 5°.9/15.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.41	+29 41.8	1.247	2.086	18.4	20.9
12 23	8 19.49	+31 2.1	1.194	2.098	14.1	20.7
1 2	8 10.73	+32 22.7	1.162	2.111	9.5	20.5
1 12	7 59.28	+33 32.2	1.154	2.123	6.1	20.3
1 22	7 46.90	+34 20.9	1.172	2.136	7.1	20.4
2 1	7 35.65	+34 43.9	1.215	2.150	11.1	20.7
2 11	7 27.27	+34 42.4	1.281	2.163	15.3	21.0
2 21	7 22.70	+34 21.7	1.366	2.177	18.9	21.2

347138 2010 OB_{50} 1 17.2 150°.76 1°.2/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.87	+23 27.1	2.868	3.670	10.1	21.4
12 23	8 11.78	+24 0.2	2.788	3.676	7.6	21.2
1 2	8 5.03	+24 35.8	2.733	3.681	4.7	21.0
1 12	7 57.16	+25 10.9	2.709	3.687	1.9	20.8
1 22	7 48.86	+25 42.4	2.715	3.692	2.2	20.9
2 1	7 40.90	+26 8.0	2.753	3.697	5.0	21.1
2 11	7 34.01	+26 26.6	2.819	3.702	7.8	21.2
2 21	7 28.75	+26 37.9	2.911	3.706	10.3	21.4

42016 2000 YZ_{68} 1 17.2 251°.81 3°.5/18.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 20.35	+12 0.3	1.715	2.512	16.0	19.0
12 23	8 15.42	+11 44.4	1.625	2.503	12.6	18.8
1 2	8 7.81	+11 41.1	1.557	2.494	8.6	18.5
1 12	7 58.24	+11 50.1	1.515	2.485	4.7	18.3
1 22	7 47.80	+12 9.4	1.500	2.476	3.9	18.2
2 1	7 37.77	+12 36.3	1.514	2.466	7.6	18.4
2 11	7 29.44	+13 7.0	1.555	2.456	11.8	18.6
2 21	7 23.68	+13 38.3	1.618	2.446	15.6	18.8

431581 2007 VA_{56} 1 17.2 2°.05 4°.3/19.3 18

12 13	8 15.19	+ 7 28.2	2.219	2.995	13.5	21.2
12 23	8 10.85	+ 7 11.1	2.135	2.995	10.8	21.0
1 2	8 4.61	+ 7 7.1	2.073	2.995	7.8	20.8
1 12	7 57.05	+ 7 16.5	2.037	2.995	5.2	20.7
1 22	7 48.96	+ 7 38.1	2.030	2.996	4.4	20.6
2 1	7 41.24	+ 8 9.5	2.052	2.996	6.5	20.7
2 11	7 34.74	+ 8 47.4	2.101	2.997	9.5	20.9
2 21	7 30.10	+ 9 28.3	2.175	2.998	12.3	21.1

283032 2007 WD_{19} 1 17.2 229°.18 3°.0/18.7 18

12 13	8 15.81	+10 27.3	2.584	3.361	11.8	21.0
12 23	8 11.10	+10 16.3	2.491	3.356	9.3	20.8
1 2	8 4.67	+10 14.8	2.422	3.351	6.5	20.6
1 12	7 57.06	+10 22.5	2.381	3.346	3.8	20.5
1 22	7 48.95	+10 38.3	2.369	3.341	3.2	20.4
2 1	7 41.14	+11 0.2	2.388	3.335	5.5	20.6
2 11	7 34.39	+11 25.9	2.435	3.329	8.4	20.7
2 21	7 29.28	+11 53.1	2.508	3.324	11.1	20.9

502243 2015 BC_{99} 1 17.2 260°.56 0°.1/17.1 18

12 13	8 17.40	+19 37.2	2.282	3.087	12.3	21.7
12 23	8 12.64	+19 57.3	2.190	3.079	9.3	21.5
1 2	8 5.79	+20 23.5	2.123	3.071	5.8	21.2
1 12	7 57.49	+20 52.9	2.084	3.063	2.0	21.0
1 22	7 48.56	+21 22.2	2.075	3.055	1.9	20.9
2 1	7 39.96	+21 48.5	2.096	3.047	5.8	21.2
2 11	7 32.65	+22 9.8	2.145	3.039	9.4	21.4
2 21	7 27.32	+22 25.2	2.218	3.031	12.5	21.6

109395 2001 QK_{175} 1 17.2 259°.21 4°.2/19.8 18

12 13	8 15.05	+ 5 11.7	2.349	3.112	13.2	19.9
12 23	8 10.73	+ 5 25.7	2.255	3.107	10.7	19.7
1 2	8 4.54	+ 5 55.6	2.185	3.102	7.8	19.5
1 12	7 57.05	+ 6 40.9	2.141	3.097	5.1	19.3
1 22	7 48.98	+ 7 39.5	2.127	3.092	4.3	19.3
2 1	7 41.19	+ 8 47.6	2.142	3.087	6.2	19.4
2 11	7 34.52	+10 0.5	2.186	3.082	9.2	19.6
2 21	7 29.60	+11 13.9	2.256	3.077	12.0	19.7

473868 2016 EK_{135} 1 17.2 165°.17 0°.2/17.1 18

12 13	8 18.69	+20 31.2	2.372	3.175	11.9	22.0
12 23	8 13.44	+20 47.3	2.289	3.177	9.0	21.8
1 2	8 6.20	+21 8.1	2.231	3.179	5.6	21.6
1 12	7 57.61	+21 30.7	2.202	3.181	1.9	21.4
1 22	7 48.50	+21 52.1	2.203	3.183	1.9	21.4
2 1	7 39.81	+22 10.0	2.234	3.185	5.6	21.6
2 11	7 32.42	+22 22.9	2.294	3.186	9.0	21.8
2 21	7 26.98	+22 30.4	2.379	3.187	11.9	22.0

290960 2005 WO_{185} 1 17.2 210°.54 3°.4/15.3 18

12 13	8 20.42	+27 11.7	2.094	2.907	12.9	20.5
12 23	8 15.27	+28 19.5	2.012	2.905	9.8	20.3
1 2	8 7.63	+29 30.2	1.955	2.901	6.4	20.1
1 12	7 58.18	+30 37.5	1.926	2.898	3.6	19.9
1 22	7 47.94	+31 35.1	1.927	2.895	4.4	19.9
2 1	7 38.09	+32 18.6	1.958	2.891	7.6	20.1
2 11	7 29.80	+32 46.4	2.015	2.887	11.0	20.3
2 21	7 23.90	+32 59.5	2.096	2.883	14.0	20.5

287415 2002 VB_{146} 1 17.2 166°.92 2°.4/15.9 18

12 13	8 22.58	+25 54.1	2.315	3.118	12.2	21.8
12 23	8 16.52	+26 44.3	2.236	3.124	9.2	21.6
1 2	8 8.21	+27 36.5	2.182	3.129	5.9	21.4
1 12	7 58.34	+28 25.9	2.158	3.133	2.9	21.2
1 22	7 47.83	+29 7.5	2.165	3.136	3.4	21.3
2 1	7 37.78	+29 38.2	2.202	3.139	6.6	21.5
2 11	7 29.20	+29 56.7	2.267	3.141	9.8	21.7
2 21	7 22.81	+30 4.1	2.356	3.143	12.7	21.9

175091 2004 HB_{53} 1 17.2 185°.57 1°.8/15.9 18

12 13	8 17.23	+23 1.9	2.564	3.370	11.1	20.0
12 23	8 12.37	+24 9.3	2.479	3.369	8.3	19.8
1 2	8 5.59	+25 21.7	2.421	3.369	5.2	19.6
1 12	7 57.44	+26 34.5	2.392	3.369	2.3	19.4
1 22	7 48.67	+27 42.8	2.394	3.368	2.8	19.4
2 1	7 40.18	+28 42.6	2.427	3.368	5.9	19.6
2 11	7 32.84	+29 31.2	2.489	3.367	8.9	19.8
2 21	7 27.32	+30 8.3	2.576	3.366	11.6	20.0

11432 Kerkhoven 1 17.2 191°.68 0°.2/17.0 18

12 13	8 17.19	+20 35.3	2.776	3.574	10.5	20.1
12 23	8 12.09	+20 52.8	2.687	3.572	7.9	19.9
1 2	8 5.27	+21 14.2	2.624	3.571	4.9	19.7
1 12	7 57.29	+21 37.2	2.590	3.569	1.7	19.4
1 22	7 48.85	+21 59.2	2.587	3.567	1.7	19.4
2 1	7 40.72	+22 18.1	2.614	3.564	4.9	19.7
2 11	7 33.68	+22 32.6	2.672	3.561	7.9	19.9
2 21	7 28.27	+22 42.0	2.754	3.558	10.6	20.0

28474 Bustamante 1 17.2 258°.39 0°.6/16.9 18

12 13	8 21.52	+19 10.3	1.543	2.363	16.4	19.2
12 23	8 16.82	+19 51.2	1.455	2.351	12.6	18.9
1 2	8 8.99	+20 43.9	1.388	2.339	7.9	18.6
1 12	7 58.77	+21 43.3	1.347	2.327	2.8	18.3
1 22	7 47.39	+22 42.7	1.334	2.314	2.8	18.2
2 1	7 36.41	+23 35.8	1.349	2.302	8.2	18.5
2 11	7 27.39	+24 18.4	1.389	2.289	13.1	18.8
2 21	7 21.40	+24 49.3	1.451	2.275	17.3	19.0

451677 2013 AO_{126} 1 17.2 259°.68 1°.2/16.8 18

12 13	8 23.59	+22 53.2	1.556	2.377	16.2	21.2
12 23	8 18.31	+23 5.9	1.470	2.368	12.4	20.9
1 2	8 9.84	+23 23.5	1.406	2.358	7.8	20.7
1 12	7 59.03	+23 41.3	1.368	2.348	2.9	20.3
1 22	7 47.19	+23 54.4	1.358	2.338	3.1	20.3
2 1	7 35.92	+23 59.5	1.376	2.327	8.2	20.6
2 11	7 26.76	+23 55.5	1.419	2.317	12.9	20.8
2 21	7 20.69	+23 43.6	1.483	2.306	17.1	21.1

32122 2000 LD_{10} 1 17.2 112°.46 3°.4/15.4 18

12 13	8 27.00	+26 39.2	1.961	2.766	14.0	18.9
12 23	8 20.06	+27 58.1	1.905	2.793	10.5	18.7
1 2	8 10.48	+29 18.5	1.874	2.819	6.8	18.5
1 12	7 59.13	+30 32.9	1.872	2.844	3.7	18.4
1 22	7 47.19	+31 34.6	1.901	2.868	4.5	18.5
2 1	7 36.00	+32 19.4	1.960	2.891	7.7	18.7
2 11	7 26.73	+32 46.9	2.046	2.913	11.1	19.0
2 21	7 20.13	+32 59.2	2.156	2.934	13.9	19.2

445281 2009 WM_{88} 1 17.2 84°.99 2°.8/18.1 17

12 13	8 23.96	+13 45.3	1.348	2.160	18.8	21.5
12 23	8 18.40	+13 39.1	1.288	2.177	14.5	21.3
1 2	8 9.70	+13 47.3	1.249	2.193	9.5	21.0
1 12	7 58.90	+14 7.9	1.235	2.210	4.5	20.8
1 22	7 47.42	+14 37.0	1.248	2.226	3.6	20.8
2 1	7 36.90	+15 10.0	1.287	2.242	8.2	21.1
2 11	7 28.72	+15 42.7	1.352	2.258	12.8	21.4
2 21	7 23.69	+16 12.4	1.438	2.274	16.8	21.7

381963 2010 EG_{101} 1 17.2 133°.52 4°.3/15.1 18

12 13	8 21.28	+33 35.1	2.425	3.231	11.6	21.2
12 23	8 15.53	+34 14.4	2.351	3.235	9.0	21.0
1 2	8 7.56	+34 49.8	2.303	3.239	6.3	20.8
1 12	7 58.11	+35 16.2	2.283	3.244	4.4	20.7
1 22	7 48.12	+35 29.5	2.292	3.248	5.0	20.8
2 1	7 38.68	+35 28.1	2.331	3.252	7.3	20.9
2 11	7 30.78	+35 12.6	2.397	3.256	10.0	21.1
2 21	7 25.07	+34 45.5	2.486	3.259	12.4	21.3

31397 1998 YR_{15} 1 17.2 195°.95 0°.9/17.5 18

12 13	8 23.40	+17 27.1	2.031	2.827	13.9	19.2
12 23	8 17.34	+17 35.3	1.942	2.824	10.7	19.0
1 2	8 8.84	+17 51.2	1.876	2.821	6.8	18.7
1 12	7 58.61	+18 12.0	1.838	2.816	2.6	18.5
1 22	7 47.64	+18 34.7	1.831	2.811	2.2	18.4
2 1	7 37.10	+18 56.4	1.854	2.805	6.4	18.7
2 11	7 28.13	+19 14.8	1.905	2.798	10.4	18.9
2 21	7 21.50	+19 28.9	1.980	2.791	13.8	19.1

250195 2002 UX_{22} 1 17.2 71°.48 5°.3/14.9 18

12 13	8 24.98	+31 14.8	1.633	2.455	15.6	20.4
12 23	8 19.04	+32 25.5	1.584	2.477	11.9	20.2
1 2	8 10.04	+33 33.5	1.557	2.500	8.1	20.0
1 12	7 59.00	+34 29.9	1.557	2.522	5.5	19.9
1 22	7 47.36	+35 8.1	1.585	2.545	6.2	20.0
2 1	7 36.71	+35 25.0	1.641	2.567	9.4	20.2
2 11	7 28.38	+35 22.0	1.721	2.589	12.7	20.5
2 21	7 23.14	+35 3.0	1.823	2.611	15.7	20.7

383764 2007 VE_{233} 1 17.2 143°.08 2°.5/18.4 18

12 13	8 17.14	+12 15.4	2.575	3.355	11.7	21.2
12 23	8 12.04	+12 2.4	2.492	3.361	9.1	21.0
1 2	8 5.23	+11 57.6	2.433	3.366	6.2	20.8
1 12	7 57.28	+12 0.6	2.402	3.371	3.4	20.7
1 22	7 48.91	+12 10.0	2.402	3.376	2.8	20.6
2 1	7 40.91	+12 24.1	2.432	3.381	5.3	20.8
2 11	7 34.04	+12 41.0	2.491	3.385	8.2	21.0
2 21	7 28.85	+12 58.7	2.576	3.389	10.9	21.2

64454 2001 VJ_{31} 1 17.2 69°.01 0°.3/17.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 20.38	+19 30.1	1.735	2.549	15.1	19.1
12 23	8 15.22	+19 59.1	1.672	2.566	11.4	18.9
1 2	8 7.51	+20 35.8	1.633	2.583	7.1	18.6
1 12	7 58.12	+21 15.8	1.620	2.599	2.4	18.4
1 22	7 48.17	+21 54.4	1.636	2.616	2.3	18.4
2 1	7 38.92	+22 27.7	1.680	2.633	6.8	18.7
2 11	7 31.52	+22 53.3	1.751	2.650	10.9	19.0
2 21	7 26.67	+23 10.6	1.846	2.666	14.3	19.3

60540 2000 EZ_{61} 1 17.2 16°.02 4°.1/18.6 18

12 13	8 17.88	+11 18.7	1.162	1.989	20.2	19.2
12 23	8 14.39	+11 10.7	1.097	1.992	15.9	19.0
1 2	8 7.52	+11 22.7	1.051	1.996	10.9	18.7
1 12	7 58.24	+11 53.7	1.028	2.000	5.8	18.4
1 22	7 48.01	+12 39.7	1.028	2.005	4.6	18.4
2 1	7 38.58	+13 34.5	1.053	2.011	9.1	18.6
2 11	7 31.54	+14 31.2	1.102	2.018	14.1	18.9
2 21	7 27.84	+15 24.2	1.171	2.026	18.6	19.2

110347 2001 SK_{299} 1 17.2 52°.35 0°.4/17.4 18

12 13	8 20.04	+18 44.6	1.672	2.488	15.5	20.0
12 23	8 15.11	+18 53.8	1.601	2.495	11.8	19.8
1 2	8 7.54	+19 11.0	1.553	2.503	7.4	19.6
1 12	7 58.16	+19 32.9	1.531	2.511	2.7	19.3
1 22	7 48.12	+19 55.8	1.538	2.519	2.3	19.3
2 1	7 38.76	+20 16.2	1.572	2.527	7.0	19.6
2 11	7 31.26	+20 32.1	1.633	2.535	11.3	19.9
2 21	7 26.38	+20 42.4	1.716	2.543	14.9	20.1

323173 2003 GC_{13} 1 17.2 208°.87 10°.0/22.4 18

12 13	8 17.71	−12 29.3	2.660	3.307	14.4	20.6
12 23	8 12.57	−13 35.8	2.569	3.301	13.0	20.5
1 2	8 5.65	−14 22.7	2.497	3.294	11.5	20.4
1 12	7 57.47	−14 46.3	2.449	3.287	10.4	20.3
1 22	7 48.72	−14 44.4	2.425	3.279	10.0	20.2
2 1	7 40.19	−14 17.4	2.427	3.270	10.4	20.3
2 11	7 32.69	−13 28.5	2.453	3.261	11.5	20.3
2 21	7 26.82	−12 22.9	2.503	3.252	13.0	20.4

320709 2008 DD_{44} 1 17.2 181°.49 5°.4/20.3 18

12 13	8 17.71	+ 2 45.4	2.172	2.925	14.5	21.0
12 23	8 12.83	+ 2 46.4	2.085	2.925	11.9	20.8
1 2	8 5.91	+ 3 5.5	2.019	2.926	9.0	20.7
1 12	7 57.58	+ 3 42.9	1.979	2.926	6.4	20.5
1 22	7 48.63	+ 4 36.8	1.968	2.925	5.5	20.4
2 1	7 40.03	+ 5 43.5	1.986	2.924	7.2	20.5
2 11	7 32.70	+ 6 58.0	2.033	2.923	10.0	20.7
2 21	7 27.31	+ 8 14.9	2.104	2.922	12.9	20.9

243391 2008 YG_{109} 1 17.2 176°.30 0°.6/16.9 18

12 13	8 22.52	+20 14.6	2.110	2.910	13.3	21.7
12 23	8 16.61	+20 49.2	2.026	2.913	10.0	21.5
1 2	8 8.35	+21 30.3	1.968	2.915	6.3	21.3
1 12	7 58.44	+22 13.8	1.938	2.917	2.2	21.0
1 22	7 47.84	+22 55.3	1.938	2.917	2.2	21.0
2 1	7 37.69	+23 31.1	1.969	2.917	6.3	21.3
2 11	7 29.07	+23 58.9	2.028	2.917	10.1	21.5
2 21	7 22.73	+24 18.4	2.111	2.915	13.3	21.7

327346 2005 UZ_{190} 1 17.2 172°.73 3°.5/15.6 18

12 13	8 21.52	+28 30.3	1.982	2.797	13.5	21.5
12 23	8 16.14	+29 16.9	1.905	2.798	10.2	21.3
1 2	8 8.17	+30 4.1	1.852	2.799	6.7	21.1
1 12	7 58.39	+30 45.8	1.827	2.799	3.8	20.9
1 22	7 47.89	+31 16.6	1.831	2.800	4.4	20.9
2 1	7 37.94	+31 33.4	1.864	2.800	7.7	21.1
2 11	7 29.72	+31 35.7	1.923	2.800	11.2	21.4
2 21	7 24.05	+31 25.5	2.005	2.800	14.3	21.6

423106 2004 BF_{17} 1 17.2 6°.25 10°.5/13.5 18

12 13	8 21.95	+43 33.3	1.461	2.283	17.0	19.4
12 23	8 17.79	+44 47.3	1.407	2.285	14.2	19.2
1 2	8 9.75	+45 46.8	1.374	2.287	11.8	19.1
1 12	7 59.00	+46 20.7	1.363	2.292	10.5	19.0
1 22	7 47.38	+46 21.8	1.376	2.297	11.2	19.1
2 1	7 36.96	+45 48.7	1.413	2.304	13.4	19.2
2 11	7 29.46	+44 46.6	1.471	2.313	16.1	19.4
2 21	7 25.76	+43 23.6	1.548	2.322	18.7	19.6

269235 2008 QS_{6} 1 17.2 245°.23 2°.7/16.1 18

12 13	8 21.90	+28 2.3	2.169	2.979	12.6	20.6
12 23	8 16.24	+28 24.1	2.080	2.970	9.6	20.4
1 2	8 8.17	+28 45.5	2.015	2.961	6.3	20.2
1 12	7 58.38	+29 2.0	1.978	2.952	3.2	19.9
1 22	7 47.90	+29 9.7	1.970	2.942	3.6	20.0
2 1	7 37.88	+29 6.4	1.992	2.933	7.0	20.2
2 11	7 29.43	+28 52.2	2.042	2.923	10.5	20.3
2 21	7 23.33	+28 28.7	2.115	2.912	13.5	20.5

79134 1990 VO_{8} 1 17.2 48°.41 1°.3/17.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 21.65	+14 45.5	1.304	2.125	18.8	18.7
12 23	8 16.55	+15 24.9	1.262	2.157	14.2	18.5
1 2	8 8.44	+16 19.2	1.241	2.190	9.0	18.3
1 12	7 58.43	+17 23.0	1.245	2.223	3.5	18.0
1 22	7 47.98	+18 29.1	1.276	2.257	2.7	18.1
2 1	7 38.63	+19 30.8	1.334	2.290	7.7	18.5
2 11	7 31.63	+20 23.8	1.417	2.324	12.3	18.8
2 21	7 27.67	+21 5.9	1.522	2.358	16.0	19.1

109752 2001 RV_{68} 1 17.2 88°.83 4°.8/15.6 18

12 13	8 27.31	+33 15.8	1.875	2.685	14.4	19.4
12 23	8 20.39	+33 47.6	1.819	2.705	11.1	19.2
1 2	8 10.68	+34 13.8	1.786	2.725	7.6	19.1
1 12	7 59.19	+34 28.0	1.780	2.744	5.0	19.0
1 22	7 47.27	+34 26.0	1.803	2.764	5.5	19.0
2 1	7 36.33	+34 6.8	1.855	2.783	8.4	19.2
2 11	7 27.58	+33 32.8	1.933	2.802	11.6	19.5
2 21	7 21.69	+32 48.1	2.034	2.820	14.4	19.7

380659 2005 EL_{19} 1 17.2 207°.88 1°.6/16.4 17

12 13	8 18.76	+24 53.8	2.604	3.408	10.9	21.6
12 23	8 13.45	+25 18.7	2.515	3.404	8.3	21.4
1 2	8 6.22	+25 45.3	2.452	3.400	5.2	21.2
1 12	7 57.68	+26 10.3	2.418	3.395	2.2	21.0
1 22	7 48.59	+26 30.5	2.414	3.390	2.5	21.0
2 1	7 39.86	+26 43.8	2.441	3.385	5.6	21.2
2 11	7 32.34	+26 49.2	2.497	3.379	8.7	21.4
2 21	7 26.67	+26 47.2	2.577	3.374	11.4	21.6

64214 2001 TU_{105} 1 17.2 309°.39 8°.6/13.2 18

12 13	8 23.89	+35 36.2	1.404	2.235	17.1	18.0
12 23	8 19.48	+37 21.0	1.333	2.226	13.7	17.7
1 2	8 11.09	+39 3.5	1.284	2.218	10.4	17.5
1 12	7 59.63	+40 30.5	1.259	2.210	8.6	17.4
1 22	7 46.71	+41 30.4	1.260	2.202	9.8	17.5
2 1	7 34.49	+41 56.9	1.285	2.194	13.0	17.6
2 11	7 24.99	+41 51.3	1.333	2.187	16.6	17.8
2 21	7 19.46	+41 20.1	1.398	2.180	20.0	18.0

499966 2011 KP_{18} 1 17.2 175°.95 3°.3/15.2 18

12 13	8 19.35	+29 54.9	2.611	3.417	10.9	21.5
12 23	8 13.98	+30 44.4	2.531	3.418	8.3	21.4
1 2	8 6.59	+31 33.3	2.477	3.419	5.5	21.2
1 12	7 57.82	+32 16.7	2.452	3.420	3.5	21.1
1 22	7 48.48	+32 50.7	2.458	3.421	4.0	21.1
2 1	7 39.52	+33 12.5	2.493	3.421	6.5	21.3
2 11	7 31.86	+33 21.7	2.556	3.421	9.2	21.4
2 21	7 26.14	+33 19.5	2.644	3.420	11.7	21.6

226020 2002 EN_{110} 1 17.2 317°.72 5°.3/14.8 18

12 13	8 20.28	+31 37.3	1.724	2.550	14.7	20.1
12 23	8 15.83	+32 36.8	1.641	2.537	11.4	19.9
1 2	8 8.32	+33 35.6	1.581	2.524	7.9	19.7
1 12	7 58.55	+34 25.9	1.547	2.512	5.5	19.5
1 22	7 47.75	+35 0.6	1.540	2.500	6.3	19.5
2 1	7 37.47	+35 15.3	1.560	2.489	9.6	19.7
2 11	7 29.18	+35 10.0	1.605	2.478	13.2	19.9
2 21	7 23.87	+34 47.7	1.670	2.467	16.6	20.1

367590 2009 SQ_{266} 1 17.2 133°.23 2°.5/18.5 18

12 13	8 19.57	+12 0.5	2.401	3.179	12.5	22.1
12 23	8 13.93	+11 56.0	2.324	3.193	9.7	21.9
1 2	8 6.44	+12 1.0	2.273	3.206	6.6	21.7
1 12	7 57.74	+12 14.4	2.249	3.219	3.5	21.5
1 22	7 48.60	+12 34.4	2.256	3.231	2.9	21.5
2 1	7 39.92	+12 58.6	2.293	3.242	5.6	21.7
2 11	7 32.51	+13 24.7	2.360	3.253	8.7	21.9
2 21	7 26.95	+13 50.4	2.451	3.264	11.4	22.1

459209 2012 DP_{80} 1 17.2 259°.20 1°.1/17.7 17

12 13	8 18.89	+15 42.1	1.988	2.789	14.0	22.2
12 23	8 14.14	+16 4.8	1.890	2.775	10.8	22.0
1 2	8 6.98	+16 38.2	1.815	2.760	7.0	21.7
1 12	7 58.04	+17 20.0	1.768	2.745	2.8	21.4
1 22	7 48.24	+18 6.2	1.750	2.730	2.2	21.4
2 1	7 38.73	+18 52.7	1.761	2.715	6.5	21.6
2 11	7 30.63	+19 35.8	1.800	2.699	10.6	21.8
2 21	7 24.79	+20 13.2	1.863	2.683	14.2	22.0

335242 2005 JJ_{114} 1 17.2 198°.18 6°.9/20.9 17

12 13	8 15.32	− 1 52.2	2.504	3.228	13.5	21.3
12 23	8 10.79	− 2 26.1	2.416	3.227	11.4	21.2
1 2	8 4.54	− 2 43.5	2.350	3.226	9.3	21.0
1 12	7 57.10	− 2 42.4	2.308	3.225	7.5	20.9
1 22	7 49.17	− 2 22.8	2.295	3.223	6.9	20.9
2 1	7 41.53	− 1 46.2	2.309	3.221	7.8	20.9
2 11	7 34.95	− 0 56.3	2.350	3.220	9.7	21.0
2 21	7 30.01	+ 0 2.3	2.416	3.218	11.9	21.2

46751 1998 FD_{30} 1 17.2 191°.21 2°.5/18.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 23.78	+13 35.6	1.761	2.555	15.8	18.8
12 23	8 17.93	+13 34.5	1.676	2.554	12.3	18.6
1 2	8 9.37	+13 45.2	1.613	2.553	8.2	18.3
1 12	7 58.87	+14 6.1	1.576	2.550	3.9	18.1
1 22	7 47.53	+14 34.3	1.569	2.547	3.1	18.0
2 1	7 36.69	+15 6.1	1.591	2.543	7.2	18.3
2 11	7 27.61	+15 38.3	1.640	2.538	11.5	18.5
2 21	7 21.15	+16 8.1	1.712	2.532	15.2	18.7

432052 2008 XF_{50} 1 17.2 29°.15 2°.2/16.1 18

12 13	8 17.03	+23 24.3	1.801	2.625	14.2	20.2
12 23	8 12.81	+24 22.3	1.736	2.636	10.7	20.0
1 2	8 6.11	+25 25.6	1.695	2.647	6.7	19.8
1 12	7 57.70	+26 28.4	1.681	2.659	2.9	19.5
1 22	7 48.66	+27 24.6	1.696	2.671	3.5	19.6
2 1	7 40.22	+28 9.6	1.739	2.685	7.3	19.9
2 11	7 33.49	+28 41.3	1.808	2.698	11.0	20.1
2 21	7 29.23	+29 0.0	1.899	2.712	14.3	20.4

240755 2005 JD_{178} 1 17.2 247°.22 3°.9/19.1 18

12 13	8 15.90	+ 8 3.1	2.402	3.174	12.7	20.8
12 23	8 11.32	+ 7 47.1	2.311	3.171	10.2	20.6
1 2	8 4.92	+ 7 42.8	2.244	3.167	7.3	20.4
1 12	7 57.25	+ 7 50.4	2.203	3.162	4.7	20.2
1 22	7 49.06	+ 8 8.8	2.192	3.158	4.1	20.2
2 1	7 41.18	+ 8 36.0	2.210	3.154	6.1	20.3
2 11	7 34.42	+ 9 9.0	2.256	3.150	9.0	20.5
2 21	7 29.41	+ 9 44.9	2.328	3.146	11.8	20.6

104961 2000 JX_{52} 1 17.2 269°.27 1°.6/16.6 18

12 13	8 21.42	+23 51.2	1.903	2.717	14.0	20.2
12 23	8 16.26	+24 13.6	1.807	2.701	10.7	19.9
1 2	8 8.41	+24 39.9	1.734	2.684	6.8	19.6
1 12	7 58.57	+25 5.7	1.689	2.667	2.7	19.4
1 22	7 47.79	+25 26.5	1.672	2.650	3.0	19.3
2 1	7 37.39	+25 39.0	1.684	2.633	7.3	19.6
2 11	7 28.64	+25 41.8	1.724	2.615	11.4	19.8
2 21	7 22.46	+25 35.7	1.786	2.597	15.1	20.0

58775 1998 FR_{59} 1 17.2 355°.99 2°.9/15.9 18

12 13	8 19.89	+26 14.8	1.759	2.582	14.5	18.7
12 23	8 15.18	+26 58.2	1.683	2.581	11.0	18.5
1 2	8 7.72	+27 44.5	1.630	2.580	7.1	18.2
1 12	7 58.30	+28 27.5	1.604	2.580	3.5	18.0
1 22	7 48.10	+29 1.5	1.606	2.579	4.1	18.1
2 1	7 38.47	+29 22.8	1.636	2.579	7.9	18.3
2 11	7 30.71	+29 30.3	1.692	2.580	11.8	18.5
2 21	7 25.65	+29 25.4	1.770	2.580	15.3	18.7

474038 2016 GE_{217} 1 17.2 303°.51 5°.7/14.4 16

12 13	8 20.77	+32 18.0	1.773	2.596	14.4	21.6
12 23	8 16.25	+33 28.2	1.686	2.580	11.3	21.4
1 2	8 8.65	+34 38.4	1.622	2.563	8.0	21.2
1 12	7 58.72	+35 39.9	1.584	2.546	5.8	21.0
1 22	7 47.65	+36 25.2	1.574	2.530	6.7	21.0
2 1	7 37.00	+36 49.1	1.591	2.514	9.9	21.2
2 11	7 28.28	+36 51.2	1.632	2.498	13.5	21.3
2 21	7 22.56	+36 34.5	1.694	2.482	16.7	21.5

81806 2000 KJ_{8} 1 17.2 256°.55 5°.1/19.9 18

12 13	8 15.33	+ 4 11.1	2.380	3.137	13.2	19.8
12 23	8 10.93	+ 3 54.9	2.287	3.132	10.8	19.7
1 2	8 4.70	+ 3 53.3	2.217	3.126	8.2	19.5
1 12	7 57.19	+ 4 6.8	2.174	3.121	5.8	19.3
1 22	7 49.14	+ 4 34.7	2.159	3.115	5.1	19.3
2 1	7 41.37	+ 5 14.7	2.173	3.109	6.7	19.4
2 11	7 34.71	+ 6 3.2	2.214	3.104	9.4	19.5
2 21	7 29.78	+ 6 56.1	2.281	3.098	12.0	19.7

404272 2013 ES_{84} 1 17.2 264°.90 1°.5/16.6 18

12 13	8 21.55	+22 13.8	1.663	2.482	15.4	21.2
12 23	8 16.68	+22 48.7	1.574	2.470	11.8	21.0
1 2	8 8.84	+23 30.9	1.507	2.458	7.4	20.7
1 12	7 58.76	+24 15.1	1.467	2.446	2.8	20.4
1 22	7 47.64	+24 55.4	1.455	2.433	3.1	20.4
2 1	7 36.95	+25 27.0	1.471	2.420	7.9	20.6
2 11	7 28.13	+25 47.5	1.512	2.408	12.5	20.8
2 21	7 22.18	+25 56.9	1.576	2.395	16.4	21.1

317013 2001 QE_{125} 1 17.2 122°.51 3°.5/19.3 18

12 13	8 19.28	+ 7 33.4	2.125	2.896	14.2	21.2
12 23	8 13.97	+ 7 57.6	2.050	2.911	11.2	21.0
1 2	8 6.60	+ 8 37.4	1.999	2.925	7.8	20.8
1 12	7 57.84	+ 9 31.2	1.975	2.939	4.6	20.6
1 22	7 48.57	+10 35.5	1.980	2.952	3.7	20.6
2 1	7 39.75	+11 45.7	2.016	2.965	6.2	20.8
2 11	7 32.32	+12 56.9	2.081	2.977	9.5	21.0
2 21	7 26.92	+14 5.0	2.171	2.989	12.5	21.2

42735 1998 RZ_{19} 1 17.2 221°.15 5°.0/20.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 16.32	+ 3 24.0	2.397	3.149	13.3	19.9
12 23	8 11.68	+ 3 24.0	2.302	3.143	10.9	19.7
1 2	8 5.19	+ 3 40.0	2.229	3.136	8.2	19.5
1 12	7 57.38	+ 4 12.2	2.182	3.130	5.8	19.3
1 22	7 48.98	+ 4 59.2	2.165	3.122	5.0	19.3
2 1	7 40.84	+ 5 58.0	2.177	3.115	6.6	19.4
2 11	7 33.81	+ 7 4.3	2.218	3.107	9.3	19.5
2 21	7 28.53	+ 8 13.5	2.284	3.099	12.1	19.7

301338 2009 BR_{186} 1 17.2 295°.50 1°.9/18.0 18

12 13	8 16.81	+14 59.4	2.283	3.079	12.6	20.6
12 23	8 12.23	+14 47.9	2.181	3.062	9.7	20.4
1 2	8 5.62	+14 43.8	2.104	3.045	6.5	20.1
1 12	7 57.55	+14 46.3	2.054	3.028	3.1	19.9
1 22	7 48.82	+14 54.0	2.034	3.012	2.5	19.8
2 1	7 40.37	+15 4.9	2.043	2.995	5.9	20.0
2 11	7 33.12	+15 17.1	2.080	2.979	9.4	20.2
2 21	7 27.79	+15 29.0	2.142	2.962	12.6	20.4

468895 2013 YY_{30} 1 17.2 283°.51 4°.4/14.5 18

12 13	8 19.05	+31 36.7	2.291	3.104	12.0	20.7
12 23	8 14.18	+32 43.7	2.209	3.098	9.2	20.5
1 2	8 6.95	+33 50.1	2.152	3.091	6.4	20.3
1 12	7 58.04	+34 49.6	2.123	3.085	4.5	20.2
1 22	7 48.37	+35 36.7	2.123	3.079	5.3	20.2
2 1	7 39.07	+36 7.7	2.152	3.072	7.8	20.4
2 11	7 31.23	+36 22.0	2.208	3.066	10.7	20.5
2 21	7 25.63	+36 21.1	2.286	3.060	13.4	20.7

272668 2005 WQ_{201} 1 17.2 44°.93 1°.4/16.6 18

12 13	8 20.10	+23 10.2	1.793	2.612	14.5	21.5
12 23	8 15.13	+23 35.2	1.720	2.617	10.9	21.3
1 2	8 7.58	+24 4.4	1.671	2.622	6.8	21.0
1 12	7 58.24	+24 33.3	1.648	2.627	2.6	20.8
1 22	7 48.24	+24 57.5	1.654	2.632	2.9	20.8
2 1	7 38.86	+25 13.8	1.688	2.638	7.1	21.1
2 11	7 31.27	+25 20.9	1.748	2.643	11.1	21.3
2 21	7 26.25	+25 19.5	1.832	2.649	14.5	21.5

293077 2006 WZ_{175} 1 17.2 350°.51 1°.8/17.9 18

12 13	8 18.16	+15 25.1	1.619	2.434	16.0	20.8
12 23	8 13.89	+15 29.4	1.540	2.431	12.3	20.6
1 2	8 6.94	+15 45.3	1.482	2.429	8.0	20.3
1 12	7 58.06	+16 10.6	1.450	2.427	3.5	20.1
1 22	7 48.38	+16 41.8	1.446	2.426	2.7	20.0
2 1	7 39.25	+17 14.9	1.469	2.425	7.2	20.3
2 11	7 31.90	+17 46.3	1.518	2.424	11.7	20.5
2 21	7 27.19	+18 13.5	1.589	2.424	15.5	20.8

494692 2004 PL_{26} 1 17.2 150°.72 4°.4/20.0 18

12 13	8 17.92	+ 3 58.5	2.637	3.382	12.4	22.7
12 23	8 12.59	+ 3 58.4	2.555	3.393	10.0	22.5
1 2	8 5.60	+ 4 12.2	2.496	3.403	7.5	22.4
1 12	7 57.49	+ 4 39.7	2.464	3.412	5.2	22.3
1 22	7 48.95	+ 5 19.6	2.463	3.420	4.5	22.2
2 1	7 40.75	+ 6 8.9	2.492	3.428	6.0	22.3
2 11	7 33.64	+ 7 4.2	2.550	3.436	8.4	22.5
2 21	7 28.15	+ 8 1.6	2.634	3.442	10.9	22.7

321415 2009 QP_{15} 1 17.2 210°.82 2°.0/16.3 18

12 13	8 21.37	+25 11.1	2.060	2.871	13.2	21.0
12 23	8 15.92	+25 39.4	1.976	2.868	10.0	20.8
1 2	8 8.02	+26 10.1	1.916	2.865	6.3	20.6
1 12	7 58.40	+26 38.7	1.884	2.861	2.7	20.3
1 22	7 48.09	+27 0.7	1.881	2.857	3.1	20.4
2 1	7 38.25	+27 13.5	1.908	2.853	6.9	20.6
2 11	7 30.02	+27 16.0	1.963	2.849	10.5	20.8
2 21	7 24.16	+27 9.4	2.041	2.844	13.7	21.0

13553 Masaakikoyama 1 17.2 163°.60 2°.5/18.5 18 A

12 13	8 24.57	+11 24.7	2.392	3.158	12.9	21.5
12 23	8 17.75	+11 31.4	2.307	3.169	10.1	21.4
1 2	8 8.90	+11 48.5	2.247	3.178	6.8	21.2
1 12	7 58.66	+12 14.6	2.217	3.186	3.6	21.0
1 22	7 47.88	+12 47.1	2.217	3.192	2.9	20.9
2 1	7 37.54	+13 23.3	2.250	3.198	5.8	21.1
2 11	7 28.53	+14 0.2	2.313	3.201	9.1	21.4
2 21	7 21.52	+14 35.6	2.402	3.204	12.0	21.6

424944 2008 YN_{106} 1 17.2 205°.83 2°.4/16.3 17

12 13	8 23.90	+30 19.3	2.785	3.579	10.6	21.7
12 23	8 17.14	+30 16.6	2.694	3.575	8.1	21.5
1 2	8 8.44	+30 10.3	2.629	3.571	5.3	21.3
1 12	7 58.48	+29 57.4	2.595	3.567	2.8	21.1
1 22	7 48.08	+29 35.9	2.592	3.562	3.1	21.1
2 1	7 38.17	+29 5.2	2.620	3.557	5.7	21.3
2 11	7 29.62	+28 26.4	2.678	3.552	8.5	21.5
2 21	7 23.00	+27 41.6	2.762	3.546	11.1	21.6

246343 2007 TO_{290} 1 17.2 72°.82 0°.6/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 17.30	+19 28.9	2.192	2.999	12.6	20.1
12 23	8 12.59	+20 18.5	2.118	3.009	9.5	19.9
1 2	8 5.81	+21 15.5	2.069	3.018	5.9	19.7
1 12	7 57.62	+22 15.5	2.049	3.028	2.0	19.5
1 22	7 48.86	+23 14.0	2.059	3.038	2.1	19.5
2 1	7 40.54	+24 6.7	2.098	3.048	5.9	19.8
2 11	7 33.59	+24 50.9	2.166	3.058	9.4	20.0
2 21	7 28.67	+25 25.5	2.258	3.068	12.4	20.2

43377 2000 WF_{41} 1 17.2 35°.17 6°.8/19.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.23	+ 6 55.2	1.336	2.137	19.5	18.6
12 23	8 14.90	+ 6 5.3	1.273	2.147	15.7	18.3
1 2	8 7.61	+ 5 35.1	1.230	2.157	11.6	18.1
1 12	7 58.29	+ 5 26.8	1.210	2.168	7.9	18.0
1 22	7 48.27	+ 5 39.8	1.215	2.179	6.9	17.9
2 1	7 39.03	+ 6 10.8	1.245	2.191	9.6	18.1
2 11	7 31.92	+ 6 53.9	1.300	2.204	13.4	18.4
2 21	7 27.74	+ 7 42.7	1.375	2.217	17.1	18.6

7334 Sciurus 1 17.2 129°.94 2°.4/18.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.30	+12 24.8	1.838	2.630	15.3	17.9
12 23	8 15.83	+12 39.7	1.764	2.642	11.8	17.7
1 2	8 7.94	+13 7.8	1.713	2.652	7.9	17.4
1 12	7 58.37	+13 46.9	1.690	2.663	3.8	17.2
1 22	7 48.19	+14 33.2	1.695	2.673	3.0	17.2
2 1	7 38.56	+15 22.4	1.729	2.682	6.7	17.4
2 11	7 30.61	+16 10.4	1.791	2.691	10.6	17.7
2 21	7 25.05	+16 54.2	1.877	2.699	14.0	17.9

207061 2004 XA_{84} 1 17.2 23°.65 0°.8/17.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.40	+19 48.0	1.387	2.213	17.6	19.9
12 23	8 17.42	+19 30.6	1.317	2.216	13.4	19.6
1 2	8 9.26	+19 19.8	1.269	2.220	8.5	19.3
1 12	7 58.89	+19 12.9	1.245	2.224	3.1	19.0
1 22	7 47.73	+19 7.2	1.248	2.229	2.7	19.0
2 1	7 37.42	+19 0.5	1.277	2.234	8.0	19.3
2 11	7 29.39	+18 51.8	1.332	2.239	12.9	19.6
2 21	7 24.52	+18 40.9	1.408	2.245	17.0	19.9

23045 Sarahocken 1 17.2 10°.61 0°.8/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.01	+17 11.2	2.026	2.831	13.6	18.8
12 23	8 13.29	+17 25.5	1.944	2.831	10.4	18.6
1 2	8 6.34	+17 48.2	1.885	2.832	6.6	18.3
1 12	7 57.83	+18 16.6	1.854	2.832	2.5	18.1
1 22	7 48.69	+18 47.5	1.851	2.832	2.1	18.0
2 1	7 39.99	+19 17.5	1.879	2.832	6.1	18.3
2 11	7 32.75	+19 44.1	1.933	2.833	9.9	18.5
2 21	7 27.68	+20 5.7	2.012	2.833	13.2	18.8

354971 2006 HQ_{61} 1 17.2 209°.81 0°.1/17.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.19	+18 40.7	1.982	2.783	14.0	22.3
12 23	8 16.60	+19 3.4	1.891	2.778	10.7	22.1
1 2	8 8.52	+19 33.9	1.824	2.771	6.7	21.8
1 12	7 58.63	+20 9.0	1.786	2.765	2.4	21.5
1 22	7 47.93	+20 44.5	1.776	2.757	2.1	21.5
2 1	7 37.64	+21 16.7	1.797	2.749	6.6	21.8
2 11	7 28.90	+21 43.1	1.846	2.740	10.6	22.0
2 21	7 22.55	+22 2.7	1.918	2.730	14.2	22.2

17165 1999 LS_{27} 1 17.2 294°.65 2°.8/18.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.66	+11 24.3	2.321	3.107	12.7	18.4
12 23	8 11.27	+11 18.8	2.227	3.099	9.9	18.2
1 2	8 4.98	+11 23.7	2.158	3.092	6.8	18.0
1 12	7 57.35	+11 38.4	2.115	3.084	3.8	17.8
1 22	7 49.14	+12 1.2	2.102	3.076	3.1	17.8
2 1	7 41.23	+12 29.7	2.118	3.069	5.8	17.9
2 11	7 34.49	+13 1.2	2.163	3.061	9.1	18.1
2 21	7 29.56	+13 33.0	2.232	3.054	12.1	18.3

95378 2002 CT_{166} 1 17.2 76°.97 1°.2/17.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.18	+12 59.9	1.486	2.295	17.5	18.9
12 23	8 16.25	+14 3.3	1.424	2.312	13.4	18.7
1 2	8 8.43	+15 24.8	1.383	2.329	8.6	18.4
1 12	7 58.60	+16 58.7	1.368	2.346	3.4	18.2
1 22	7 48.02	+18 36.8	1.382	2.363	2.5	18.1
2 1	7 38.17	+20 10.7	1.424	2.379	7.5	18.5
2 11	7 30.35	+21 34.0	1.493	2.396	12.1	18.8
2 21	7 25.41	+22 43.5	1.584	2.412	15.9	19.1

206297 2003 DB_{3} 1 17.2 25°.32 5°.6/21.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.42	+ 0 4.5	2.415	3.153	13.5	19.7
12 23	8 10.21	+ 0 16.4	2.326	3.155	11.2	19.5
1 2	8 4.25	+ 0 46.8	2.260	3.156	8.7	19.4
1 12	7 57.08	+ 1 36.1	2.220	3.157	6.5	19.2
1 22	7 49.40	+ 2 42.3	2.208	3.158	5.6	19.2
2 1	7 42.01	+ 4 1.6	2.226	3.160	6.8	19.2
2 11	7 35.72	+ 5 29.0	2.272	3.161	9.2	19.4
2 21	7 31.10	+ 6 59.0	2.344	3.163	11.7	19.6

453807 2011 SM_{65} 1 17.2 93°.05 2°.8/18.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 25.28	+12 34.7	1.771	2.558	15.9	21.5
12 23	8 18.60	+12 31.4	1.716	2.590	12.3	21.4
1 2	8 9.49	+12 40.2	1.684	2.620	8.1	21.2
1 12	7 58.86	+12 59.2	1.679	2.650	4.1	21.0
1 22	7 47.86	+13 25.4	1.703	2.680	3.3	21.0
2 1	7 37.71	+13 55.2	1.757	2.708	6.8	21.3
2 11	7 29.46	+14 25.6	1.839	2.735	10.5	21.6
2 21	7 23.74	+14 54.1	1.944	2.762	13.8	21.8

71493 2000 CF_{13} 1 17.2 100°.73 0°.2/17.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.99	+20 22.2	2.232	3.033	12.6	19.2
12 23	8 15.18	+20 17.5	2.160	3.046	9.5	19.0
1 2	8 7.31	+20 16.7	2.113	3.060	6.0	18.8
1 12	7 58.12	+20 17.5	2.094	3.073	2.1	18.6
1 22	7 48.51	+20 17.8	2.105	3.086	1.9	18.6
2 1	7 39.47	+20 16.1	2.147	3.098	5.7	18.9
2 11	7 31.91	+20 11.5	2.217	3.111	9.1	19.1
2 21	7 26.42	+20 4.0	2.312	3.123	12.1	19.3

339488 2005 GV_{10} 1 17.2 207°.99 2°.0/18.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.31	+12 48.4	2.539	3.323	11.7	21.1
12 23	8 11.59	+12 57.8	2.447	3.320	9.1	21.0
1 2	8 5.10	+13 16.4	2.380	3.317	6.1	20.8
1 12	7 57.38	+13 43.0	2.341	3.314	3.0	20.6
1 22	7 49.14	+14 15.5	2.333	3.310	2.4	20.5
2 1	7 41.19	+14 51.0	2.355	3.306	5.3	20.7
2 11	7 34.34	+15 27.0	2.405	3.302	8.4	20.9
2 21	7 29.17	+16 1.2	2.482	3.298	11.2	21.1

366944 2005 VE_{117} 1 17.2 107°.83 2°.5/18.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.85	+13 45.3	1.979	2.774	14.3	21.0
12 23	8 14.59	+13 34.2	1.903	2.781	11.0	20.8
1 2	8 7.09	+13 32.8	1.850	2.789	7.3	20.6
1 12	7 58.08	+13 40.0	1.824	2.797	3.7	20.4
1 22	7 48.53	+13 53.9	1.827	2.804	3.0	20.4
2 1	7 39.50	+14 12.0	1.860	2.812	6.4	20.6
2 11	7 32.02	+14 31.6	1.920	2.819	10.0	20.8
2 21	7 26.74	+14 50.8	2.004	2.826	13.3	21.0

414517 2009 SY_{40} 1 17.2 89°.50 1°.4/17.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.60	+15 49.8	1.921	2.723	14.3	21.8
12 23	8 14.47	+15 58.3	1.849	2.735	11.0	21.6
1 2	8 7.04	+16 16.1	1.801	2.746	7.0	21.4
1 12	7 58.07	+16 40.8	1.780	2.757	2.9	21.2
1 22	7 48.55	+17 9.3	1.788	2.768	2.3	21.1
2 1	7 39.60	+17 38.2	1.825	2.779	6.3	21.4
2 11	7 32.24	+18 5.0	1.889	2.789	10.1	21.7
2 21	7 27.16	+18 27.8	1.978	2.800	13.4	21.9

22431 1996 DY_{2} 1 17.2 59°.82 1°.2/16.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.07	+22 21.5	1.957	2.772	13.6	18.3
12 23	8 14.17	+22 52.1	1.884	2.779	10.3	18.1
1 2	8 6.92	+23 27.5	1.835	2.785	6.4	17.8
1 12	7 58.04	+24 3.4	1.813	2.792	2.4	17.6
1 22	7 48.57	+24 35.6	1.820	2.799	2.6	17.6
2 1	7 39.64	+25 0.6	1.857	2.806	6.6	17.9
2 11	7 32.33	+25 16.9	1.920	2.813	10.3	18.1
2 21	7 27.34	+25 24.6	2.007	2.821	13.6	18.3

151522 2002 RM_{17} 1 17.2 102°.19 1°.9/17.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.00	+14 24.7	1.508	2.313	17.5	20.6
12 23	8 18.95	+14 38.5	1.448	2.334	13.4	20.4
1 2	8 10.00	+15 5.6	1.410	2.354	8.7	20.2
1 12	7 59.12	+15 42.6	1.398	2.374	3.8	20.0
1 22	7 47.64	+16 24.9	1.414	2.393	2.9	19.9
2 1	7 37.03	+17 7.6	1.458	2.412	7.5	20.3
2 11	7 28.58	+17 46.7	1.528	2.430	11.9	20.6
2 21	7 23.07	+18 20.0	1.621	2.448	15.7	20.8

420891 2013 LR_{17} 1 17.2 195°.83 2°.7/15.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.19	+26 20.8	2.214	3.021	12.5	21.8
12 23	8 16.48	+27 13.3	2.129	3.019	9.5	21.6
1 2	8 8.39	+28 8.3	2.069	3.016	6.1	21.4
1 12	7 58.59	+29 0.4	2.038	3.012	3.1	21.2
1 22	7 48.04	+29 44.4	2.037	3.008	3.7	21.2
2 1	7 37.89	+30 16.5	2.066	3.004	7.0	21.4
2 11	7 29.24	+30 35.6	2.123	2.998	10.4	21.6
2 21	7 22.88	+30 42.4	2.204	2.992	13.3	21.8

190819 2001 SP_{14} 1 17.2 0°.00 6°.0/19.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.66	+ 7 46.5	1.091	1.918	21.3	19.4
12 23	8 12.21	+ 7 30.7	1.024	1.915	17.1	19.2
1 2	8 6.35	+ 7 40.2	0.974	1.913	12.3	18.9
1 12	7 58.00	+ 8 16.1	0.946	1.912	7.7	18.6
1 22	7 48.58	+ 9 15.1	0.940	1.913	6.3	18.6
2 1	7 39.86	+10 30.2	0.958	1.915	9.9	18.8
2 11	7 33.49	+11 51.8	0.998	1.918	14.8	19.0
2 21	7 30.51	+13 11.5	1.058	1.923	19.3	19.3

249081 2007 VT_{19} 1 17.2 196°.31 3°.1/18.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 20.10	+11 16.2	1.853	2.644	15.2	21.0
12 23	8 15.06	+11 18.7	1.768	2.643	11.9	20.8
1 2	8 7.56	+11 34.7	1.705	2.641	8.1	20.5
1 12	7 58.32	+12 3.3	1.669	2.639	4.4	20.3
1 22	7 48.34	+12 41.6	1.661	2.637	3.5	20.2
2 1	7 38.78	+13 25.8	1.682	2.634	6.9	20.4
2 11	7 30.79	+14 11.8	1.731	2.631	10.9	20.7
2 21	7 25.17	+14 55.9	1.803	2.628	14.4	20.9

186204 2001 WT_{14} 1 17.2 202°.96 5°.1/14.3 18

12 13	8 23.19	+33 17.5	2.235	3.042	12.4	20.1
12 23	8 17.44	+34 31.0	2.155	3.038	9.7	19.9
1 2	8 9.10	+35 42.7	2.100	3.034	6.9	19.7
1 12	7 58.88	+36 45.4	2.073	3.030	5.2	19.6
1 22	7 47.82	+37 32.8	2.076	3.025	5.9	19.7
2 1	7 37.18	+38 1.4	2.107	3.020	8.4	19.8
2 11	7 28.15	+38 11.0	2.165	3.014	11.3	20.0
2 21	7 21.61	+38 3.9	2.246	3.008	13.9	20.1

246385 2007 UD_{18} 1 17.2 108°.29 2°.0/16.4 18

12 13	8 23.59	+23 21.6	1.731	2.546	15.1	21.1
12 23	8 17.83	+24 8.3	1.667	2.561	11.4	20.9
1 2	8 9.31	+25 0.0	1.625	2.575	7.1	20.6
1 12	7 58.92	+25 50.4	1.611	2.589	2.9	20.4
1 22	7 47.86	+26 33.8	1.626	2.603	3.3	20.5
2 1	7 37.54	+27 6.0	1.670	2.616	7.5	20.7
2 11	7 29.18	+27 25.7	1.740	2.629	11.5	21.0
2 21	7 23.57	+27 33.7	1.833	2.642	14.9	21.3

37888 1998 FG_{59} 1 17.2 128°.85 0°.9/17.7 18

12 13	8 19.00	+16 32.3	2.074	2.875	13.5	19.3
12 23	8 13.96	+16 52.0	1.995	2.881	10.3	19.1
1 2	8 6.73	+17 20.5	1.941	2.886	6.6	18.8
1 12	7 58.00	+17 55.0	1.914	2.892	2.6	18.6
1 22	7 48.68	+18 32.1	1.917	2.897	2.0	18.6
2 1	7 39.83	+19 8.2	1.949	2.903	6.0	18.8
2 11	7 32.44	+19 40.7	2.010	2.908	9.7	19.1
2 21	7 27.18	+20 7.8	2.094	2.912	12.9	19.3

193802 2001 PS_{17} 1 17.2 155°.38 3°.5/15.7 18

12 13	8 26.38	+27 17.6	1.858	2.668	14.4	21.4
12 23	8 19.97	+28 16.5	1.787	2.677	11.0	21.2
1 2	8 10.71	+29 17.3	1.739	2.685	7.1	21.0
1 12	7 59.43	+30 12.7	1.720	2.692	3.9	20.8
1 22	7 47.38	+30 56.4	1.730	2.699	4.5	20.8
2 1	7 35.97	+31 24.4	1.769	2.704	8.1	21.1
2 11	7 26.53	+31 36.0	1.835	2.709	11.8	21.3
2 21	7 19.91	+31 33.7	1.924	2.713	15.0	21.5

264910 2002 TF_{175} 1 17.2 129°.25 2°.4/16.0 18

12 13	8 23.72	+25 26.3	2.172	2.977	12.8	21.6
12 23	8 17.45	+26 16.8	2.105	2.994	9.6	21.4
1 2	8 8.87	+27 9.4	2.063	3.010	6.1	21.2
1 12	7 58.73	+27 58.8	2.050	3.025	2.9	21.1
1 22	7 48.04	+28 40.0	2.067	3.040	3.4	21.1
2 1	7 37.94	+29 9.9	2.115	3.054	6.7	21.4
2 11	7 29.46	+29 27.5	2.191	3.068	10.0	21.6
2 21	7 23.29	+29 33.9	2.291	3.081	12.9	21.8

46634 1994 VR_{2} 1 17.2 314°.32 8°.3/13.3 18

12 13	8 23.65	+37 23.7	1.593	2.416	15.8	17.4
12 23	8 18.95	+38 54.5	1.520	2.407	12.8	17.2
1 2	8 10.62	+40 20.4	1.470	2.398	9.9	17.0
1 12	7 59.54	+41 30.0	1.444	2.390	8.3	16.9
1 22	7 47.22	+42 14.0	1.444	2.381	9.3	16.9
2 1	7 35.56	+42 27.6	1.470	2.373	12.1	17.0
2 11	7 26.37	+42 12.5	1.518	2.366	15.3	17.2
2 21	7 20.75	+41 34.3	1.586	2.359	18.4	17.4

403585 2010 OE_{127} 1 17.2 117°.16 0°.9/16.9 18

12 13	8 27.21	+24 13.0	1.992	2.793	13.9	21.7
12 23	8 20.04	+24 3.9	1.923	2.810	10.5	21.5
1 2	8 10.43	+23 55.5	1.879	2.826	6.6	21.3
1 12	7 59.24	+23 44.5	1.863	2.842	2.4	21.1
1 22	7 47.64	+23 28.7	1.878	2.857	2.4	21.1
2 1	7 36.84	+23 7.3	1.923	2.872	6.5	21.4
2 11	7 27.92	+22 41.1	1.996	2.886	10.2	21.7
2 21	7 21.53	+22 11.4	2.094	2.899	13.4	21.9

14982 1997 TH_{19} 1 17.2 125°.10 1°.6/16.6 18

12 13	8 26.93	+23 40.9	2.018	2.818	13.8	19.0
12 23	8 19.87	+24 12.2	1.954	2.840	10.4	18.8
1 2	8 10.36	+24 46.2	1.914	2.861	6.5	18.6
1 12	7 59.24	+25 18.1	1.904	2.882	2.5	18.4
1 22	7 47.63	+25 43.6	1.924	2.901	2.8	18.4
2 1	7 36.77	+26 0.0	1.974	2.919	6.7	18.7
2 11	7 27.73	+26 6.6	2.053	2.936	10.3	19.0
2 21	7 21.20	+26 4.8	2.156	2.953	13.3	19.2

152601 1995 UV_{37} 1 17.2 180°.47 1°.5/17.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 23.81	+15 56.5	1.734	2.535	15.7	21.4
12 23	8 18.03	+16 2.6	1.652	2.537	12.1	21.1
1 2	8 9.51	+16 19.0	1.593	2.537	7.8	20.9
1 12	7 59.04	+16 43.2	1.561	2.538	3.3	20.6
1 22	7 47.76	+17 11.5	1.557	2.537	2.6	20.6
2 1	7 37.04	+17 40.2	1.583	2.536	7.1	20.8
2 11	7 28.13	+18 6.5	1.635	2.534	11.5	21.1
2 21	7 21.90	+18 28.6	1.711	2.532	15.2	21.3

244273 2002 EV_{5} 1 17.2 171°.95 13°.3/14.8 18

12 13	8 45.28	+47 13.8	1.222	2.021	21.1	20.3
12 23	8 36.83	+48 27.6	1.164	2.023	18.0	20.1
1 2	8 22.40	+49 20.6	1.125	2.025	15.1	19.9
1 12	8 3.67	+49 34.8	1.107	2.026	13.4	19.8
1 22	7 43.74	+48 58.8	1.113	2.027	13.9	19.9
2 1	7 26.13	+47 33.4	1.141	2.027	16.3	20.0
2 11	7 13.43	+45 31.4	1.191	2.027	19.4	20.2
2 21	7 6.52	+43 9.3	1.260	2.026	22.5	20.4

127149 2002 GZ_{125} 1 17.2 353°.35 1°.3/16.7 18

12 13	8 20.25	+23 24.0	1.924	2.739	13.8	20.3
12 23	8 15.18	+23 41.2	1.844	2.738	10.5	20.1
1 2	8 7.63	+24 1.8	1.788	2.738	6.6	19.8
1 12	7 58.36	+24 21.9	1.759	2.737	2.5	19.6
1 22	7 48.42	+24 37.7	1.759	2.737	2.7	19.6
2 1	7 39.02	+24 46.5	1.787	2.737	6.8	19.9
2 11	7 31.29	+24 47.3	1.843	2.737	10.7	20.1
2 21	7 25.98	+24 40.6	1.922	2.737	14.0	20.3

254467 2005 DJ_{2} 1 17.2 103°.44 6°.7/20.4 18

12 13	8 20.76	+ 1 26.8	2.054	2.798	15.5	20.4
12 23	8 15.05	+ 0 49.0	1.988	2.819	12.8	20.3
1 2	8 7.28	+ 0 29.1	1.945	2.840	9.9	20.2
1 12	7 58.17	+ 0 28.5	1.927	2.861	7.5	20.0
1 22	7 48.64	+ 0 46.7	1.937	2.881	6.7	20.0
2 1	7 39.68	+ 1 21.1	1.975	2.901	8.1	20.2
2 11	7 32.19	+ 2 7.4	2.041	2.920	10.5	20.3
2 21	7 26.78	+ 3 0.3	2.130	2.938	13.1	20.5

256193 2006 VP_{87} 1 17.2 56°.10 2°.3/16.5 18

12 13	8 24.43	+25 21.7	1.491	2.316	16.6	20.2
12 23	8 18.61	+25 45.3	1.441	2.340	12.5	20.0
1 2	8 9.80	+26 10.6	1.413	2.364	7.8	19.8
1 12	7 59.07	+26 31.9	1.411	2.389	3.3	19.6
1 22	7 47.89	+26 44.4	1.437	2.414	3.7	19.6
2 1	7 37.78	+26 45.7	1.490	2.439	8.0	20.0
2 11	7 30.01	+26 36.2	1.569	2.464	12.1	20.3
2 21	7 25.28	+26 18.1	1.670	2.489	15.6	20.5

119487 2001 UT_{59} 1 17.2 80°.87 1°.6/16.6 18

12 13	8 22.11	+23 35.2	1.793	2.609	14.6	20.6
12 23	8 16.59	+24 2.8	1.729	2.623	11.0	20.4
1 2	8 8.48	+24 34.1	1.688	2.638	6.9	20.2
1 12	7 58.64	+25 4.0	1.674	2.652	2.7	19.9
1 22	7 48.23	+25 28.3	1.688	2.666	3.0	20.0
2 1	7 38.55	+25 43.7	1.732	2.680	7.1	20.3
2 11	7 30.74	+25 49.6	1.802	2.694	11.0	20.5
2 21	7 25.53	+25 46.6	1.895	2.708	14.3	20.8

146561 2001 TC_{4} 1 17.2 81°.66 1°.1/17.7 18

12 13	8 21.41	+16 55.6	1.813	2.618	15.0	20.3
12 23	8 15.89	+17 1.4	1.749	2.636	11.4	20.1
1 2	8 7.95	+17 15.8	1.708	2.654	7.2	19.9
1 12	7 58.44	+17 36.1	1.695	2.672	2.9	19.7
1 22	7 48.43	+17 59.0	1.710	2.690	2.3	19.7
2 1	7 39.12	+18 21.3	1.754	2.708	6.5	20.0
2 11	7 31.57	+18 40.8	1.825	2.725	10.4	20.2
2 21	7 26.45	+18 56.3	1.921	2.743	13.7	20.5

320822 2008 FH_{27} 1 17.2 297°.60 9°.2/12.8 18 R

12 13	8 25.56	+40 48.5	1.712	2.524	15.4	20.4
12 23	8 20.51	+42 14.2	1.628	2.504	12.8	20.2
1 2	8 11.71	+43 32.8	1.567	2.484	10.3	20.0
1 12	8 0.00	+44 32.9	1.531	2.464	9.2	19.9
1 22	7 46.88	+45 5.2	1.520	2.444	10.1	19.9
2 1	7 34.32	+45 5.1	1.535	2.425	12.6	20.0
2 11	7 24.21	+44 34.5	1.572	2.405	15.6	20.1
2 21	7 17.77	+43 40.0	1.629	2.386	18.5	20.3

488262 2016 QG_{1} 1 17.2 98°.37 2°.2/17.4 16

12 13	8 36.66	+21 33.0	1.128	1.947	21.2	20.6
12 23	8 28.64	+20 7.5	1.064	1.958	16.3	20.4
1 2	8 16.45	+18 41.4	1.020	1.968	10.5	20.1
1 12	8 1.48	+17 15.0	1.000	1.978	4.3	19.8
1 22	7 45.78	+15 50.7	1.009	1.988	3.8	19.8
2 1	7 31.62	+14 32.7	1.044	1.998	9.8	20.1
2 11	7 20.80	+13 24.4	1.105	2.007	15.4	20.5
2 21	7 14.16	+12 27.4	1.185	2.017	19.9	20.8

293324 2007 DG_{58} 1 17.2 46°.58 1°.8/16.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 21.68	+24 26.8	1.618	2.441	15.6	20.8
12 23	8 16.50	+24 44.7	1.556	2.455	11.8	20.6
1 2	8 8.51	+25 5.3	1.517	2.468	7.4	20.4
1 12	7 58.67	+25 23.7	1.504	2.483	2.9	20.2
1 22	7 48.25	+25 35.7	1.519	2.497	3.2	20.2
2 1	7 38.67	+25 38.7	1.562	2.512	7.5	20.5
2 11	7 31.15	+25 32.3	1.630	2.527	11.6	20.8
2 21	7 26.43	+25 18.0	1.721	2.542	15.1	21.0

162059 1997 AM_{17} 1 17.2 65°.37 1°.2/17.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.60	+17 9.2	2.173	2.971	13.0	19.6
12 23	8 14.11	+17 1.5	2.111	2.994	9.9	19.4
1 2	8 6.66	+17 0.3	2.073	3.017	6.3	19.3
1 12	7 57.97	+17 3.6	2.063	3.040	2.6	19.1
1 22	7 48.93	+17 9.7	2.083	3.063	2.1	19.1
2 1	7 40.50	+17 16.5	2.132	3.085	5.6	19.3
2 11	7 33.53	+17 22.6	2.210	3.108	9.0	19.6
2 21	7 28.59	+17 27.1	2.313	3.131	11.9	19.8

273972 2007 LP_{8} 1 17.2 312°.43 5°.2/19.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.73	+ 7 2.2	1.872	2.654	15.4	20.7
12 23	8 12.54	+ 6 36.2	1.782	2.645	12.5	20.5
1 2	8 6.04	+ 6 25.4	1.713	2.636	9.2	20.3
1 12	7 57.86	+ 6 30.9	1.670	2.627	6.2	20.1
1 22	7 48.93	+ 6 51.8	1.654	2.619	5.3	20.0
2 1	7 40.36	+ 7 25.7	1.666	2.610	7.7	20.1
2 11	7 33.22	+ 8 8.5	1.704	2.602	11.1	20.3
2 21	7 28.30	+ 8 55.6	1.765	2.595	14.4	20.5

402282 2005 SU_{121} 1 17.2 87°.89 4°.1/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 26.30	+31 33.2	1.860	2.672	14.4	20.7
12 23	8 19.74	+31 58.7	1.799	2.688	11.0	20.5
1 2	8 10.42	+32 20.1	1.762	2.704	7.4	20.3
1 12	7 59.32	+32 31.6	1.751	2.720	4.5	20.2
1 22	7 47.73	+32 28.9	1.769	2.735	4.9	20.2
2 1	7 37.05	+32 10.9	1.817	2.751	8.0	20.5
2 11	7 28.47	+31 39.4	1.890	2.766	11.4	20.7
2 21	7 22.69	+30 58.1	1.987	2.781	14.4	20.9

241663 2000 LJ_{4} 1 17.2 179°.83 5°.2/20.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.78	− 0 38.6	3.405	4.116	10.4	21.8
12 23	8 10.74	− 1 9.1	3.312	4.118	8.8	21.7
1 2	8 4.39	− 1 27.9	3.244	4.118	7.0	21.5
1 12	7 57.18	− 1 33.9	3.202	4.119	5.6	21.5
1 22	7 49.61	− 1 27.0	3.190	4.118	5.2	21.4
2 1	7 42.26	− 1 8.4	3.208	4.118	6.0	21.5
2 11	7 35.70	− 0 40.0	3.255	4.116	7.5	21.6
2 21	7 30.36	− 0 4.6	3.328	4.115	9.3	21.7

9947 Takaishuji 1 17.2 52°.91 11°.9/17.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 49.03	+48 18.4	1.216	2.009	21.5	17.2
12 23	8 38.16	+48 38.5	1.180	2.037	17.9	17.0
1 2	8 22.08	+48 31.4	1.164	2.066	14.5	16.9
1 12	8 3.19	+47 44.3	1.169	2.094	12.2	16.9
1 22	7 44.65	+46 13.6	1.199	2.124	12.1	17.0
2 1	7 29.27	+44 7.0	1.255	2.153	14.1	17.2
2 11	7 18.71	+41 39.2	1.334	2.182	17.0	17.4
2 21	7 13.22	+39 5.0	1.433	2.212	19.7	17.7

189982 2004 EE_{20} 1 17.3 195°.38 2°.5/18.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.88	+12 57.9	1.750	2.544	15.8	21.4
12 23	8 17.37	+13 5.9	1.664	2.542	12.3	21.2
1 2	8 9.15	+13 27.3	1.600	2.540	8.2	20.9
1 12	7 58.98	+14 0.1	1.563	2.537	4.0	20.7
1 22	7 47.95	+14 40.8	1.554	2.533	3.1	20.6
2 1	7 37.37	+15 25.1	1.575	2.528	7.2	20.8
2 11	7 28.52	+16 9.0	1.623	2.523	11.5	21.1
2 21	7 22.27	+16 49.3	1.694	2.517	15.3	21.3

391404 2007 CA_{22} 1 17.3 16°.00 1°.3/16.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.14	+19 38.2	1.107	1.953	19.8	20.4
12 23	8 15.80	+20 30.9	1.045	1.955	15.0	20.1
1 2	8 8.73	+21 38.1	1.002	1.959	9.4	19.8
1 12	7 58.93	+22 52.0	0.983	1.963	3.3	19.5
1 22	7 48.02	+24 3.0	0.988	1.968	3.6	19.5
2 1	7 37.99	+25 2.7	1.017	1.974	9.6	19.8
2 11	7 30.61	+25 46.5	1.070	1.980	15.0	20.2
2 21	7 26.93	+26 13.7	1.142	1.988	19.5	20.5

199093 2005 YX_{17} 1 17.3 246°.67 0°.6/17.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.07	+21 25.4	1.602	2.419	16.1	20.9
12 23	8 18.68	+21 35.2	1.514	2.409	12.3	20.6
1 2	8 10.19	+21 51.1	1.448	2.398	7.8	20.4
1 12	7 59.40	+22 8.9	1.408	2.388	2.7	20.0
1 22	7 47.57	+22 24.1	1.396	2.377	2.7	20.0
2 1	7 36.27	+22 33.4	1.413	2.366	7.9	20.3
2 11	7 26.97	+22 35.3	1.455	2.354	12.6	20.5
2 21	7 20.67	+22 30.2	1.520	2.342	16.7	20.7

62525 2000 SD_{251} 1 17.3 165°.43 1°.1/17.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 18.97	+15 37.0	2.137	2.934	13.3	20.0
12 23	8 13.94	+15 59.7	2.054	2.937	10.2	19.8
1 2	8 6.76	+16 32.1	1.995	2.939	6.5	19.5
1 12	7 58.09	+17 11.4	1.964	2.941	2.7	19.3
1 22	7 48.80	+17 54.0	1.962	2.943	2.1	19.2
2 1	7 39.92	+18 36.4	1.991	2.944	5.9	19.5
2 11	7 32.42	+19 15.4	2.048	2.945	9.6	19.7
2 21	7 26.99	+19 49.2	2.129	2.946	12.8	19.9

110523 2001 TD_{82} 1 17.3 259°.46 2°.6/18.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.28	+14 18.0	1.895	2.693	14.7	19.9
12 23	8 15.22	+13 59.8	1.804	2.685	11.4	19.6
1 2	8 7.72	+13 50.7	1.736	2.677	7.6	19.4
1 12	7 58.46	+13 50.2	1.695	2.668	3.8	19.1
1 22	7 48.45	+13 56.4	1.683	2.660	3.1	19.1
2 1	7 38.85	+14 7.4	1.699	2.651	6.8	19.3
2 11	7 30.79	+14 20.7	1.742	2.643	10.8	19.5
2 21	7 25.08	+14 34.4	1.809	2.634	14.4	19.7

110025 2001 SN_{72} 1 17.3 4°.64 4°.9/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.92	+29 40.6	1.744	2.568	14.6	18.7
12 23	8 16.23	+31 1.3	1.672	2.568	11.2	18.5
1 2	8 8.60	+32 23.6	1.624	2.568	7.7	18.2
1 12	7 58.82	+33 39.0	1.602	2.569	5.1	18.1
1 22	7 48.11	+34 39.6	1.608	2.569	6.0	18.2
2 1	7 37.96	+35 20.2	1.642	2.570	9.3	18.3
2 11	7 29.75	+35 39.9	1.701	2.571	12.8	18.6
2 21	7 24.42	+35 41.3	1.781	2.572	16.0	18.8

357148 2002 CZ 1 17.3 265°.58 3°.8/18.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.92	+11 57.9	1.613	2.414	16.7	20.7
12 23	8 16.11	+11 34.7	1.525	2.405	13.2	20.5
1 2	8 8.48	+11 24.4	1.459	2.397	9.1	20.2
1 12	7 58.78	+11 26.8	1.418	2.388	5.1	20.0
1 22	7 48.15	+11 40.6	1.404	2.379	4.2	19.9
2 1	7 37.98	+12 3.0	1.418	2.370	7.9	20.1
2 11	7 29.60	+12 30.3	1.458	2.362	12.3	20.3
2 21	7 23.94	+12 59.0	1.520	2.353	16.2	20.5

275853 2001 SN_{113} 1 17.3 150°.52 4°.5/20.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.71	+ 2 29.7	3.075	3.809	11.0	21.7
12 23	8 10.78	+ 2 17.4	2.991	3.818	9.0	21.6
1 2	8 4.46	+ 2 17.3	2.931	3.827	6.9	21.5
1 12	7 57.22	+ 2 29.8	2.898	3.835	5.1	21.4
1 22	7 49.63	+ 2 54.0	2.895	3.843	4.5	21.3
2 1	7 42.31	+ 3 28.2	2.922	3.850	5.6	21.4
2 11	7 35.89	+ 4 9.6	2.979	3.857	7.6	21.5
2 21	7 30.82	+ 4 55.2	3.061	3.864	9.6	21.7

54986 2001 QZ_{2} 1 17.3 75°.87 0°.7/17.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.92	+18 12.1	1.720	2.530	15.4	19.0
12 23	8 16.42	+18 17.8	1.657	2.547	11.7	18.8
1 2	8 8.37	+18 31.3	1.617	2.564	7.4	18.6
1 12	7 58.64	+18 49.6	1.603	2.581	2.7	18.4
1 22	7 48.38	+19 9.2	1.618	2.598	2.2	18.4
2 1	7 38.87	+19 27.1	1.661	2.615	6.7	18.7
2 11	7 31.23	+19 41.3	1.731	2.632	10.8	19.0
2 21	7 26.16	+19 50.9	1.825	2.649	14.3	19.2

280209 2002 TB_{223} 1 17.3 61°.82 4°.5/19.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.46	+ 6 52.6	2.142	2.915	14.0	20.4
12 23	8 11.91	+ 6 37.1	2.066	2.924	11.2	20.2
1 2	8 5.41	+ 6 35.7	2.012	2.933	8.2	20.0
1 12	7 57.60	+ 6 48.6	1.985	2.942	5.4	19.9
1 22	7 49.29	+ 7 14.2	1.987	2.951	4.6	19.8
2 1	7 41.42	+ 7 50.0	2.017	2.960	6.6	20.0
2 11	7 34.86	+ 8 32.1	2.074	2.970	9.6	20.2
2 21	7 30.22	+ 9 16.9	2.156	2.979	12.4	20.4

358108 2006 KF_{115} 1 17.3 261°.76 2°.2/18.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.81	+14 16.5	1.733	2.536	15.6	21.9
12 23	8 15.99	+14 18.1	1.637	2.521	12.2	21.6
1 2	8 8.42	+14 31.6	1.562	2.505	8.1	21.3
1 12	7 58.78	+14 55.5	1.514	2.489	3.8	21.0
1 22	7 48.14	+15 26.8	1.494	2.473	3.0	20.9
2 1	7 37.82	+16 1.7	1.502	2.456	7.3	21.2
2 11	7 29.14	+16 36.5	1.537	2.440	11.8	21.4
2 21	7 23.06	+17 8.4	1.595	2.423	15.8	21.6

6684 Volodshevchenko 1 17.3 168°.11 0°.5/17.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.59	+17 50.0	2.291	3.088	12.5	18.2
12 23	8 14.27	+18 9.8	2.207	3.091	9.5	18.0
1 2	8 6.91	+18 36.6	2.149	3.094	6.0	17.8
1 12	7 58.14	+19 7.7	2.118	3.096	2.2	17.5
1 22	7 48.80	+19 40.0	2.118	3.099	1.8	17.5
2 1	7 39.86	+20 10.3	2.148	3.100	5.6	17.8
2 11	7 32.25	+20 36.6	2.207	3.101	9.1	18.0
2 21	7 26.62	+20 57.6	2.291	3.102	12.2	18.2

58512 1996 XR_4 1 17.3 275°.87 7°.5/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 24.63	+38 46.4	1.919	2.728	14.1	19.3
12 23	8 19.13	+40 1.6	1.845	2.722	11.4	19.1
1 2	8 10.47	+41 10.1	1.794	2.716	8.9	18.9
1 12	7 59.50	+42 2.9	1.769	2.709	7.5	18.8
1 22	7 47.55	+42 33.0	1.771	2.703	8.3	18.9
2 1	7 36.22	+42 36.9	1.799	2.696	10.6	19.0
2 11	7 27.01	+42 16.5	1.852	2.690	13.4	19.2
2 21	7 20.89	+41 36.6	1.926	2.684	16.1	19.3

155442 1998 HN_9 1 17.3 359°.05 2°.2/18.4 18

12 13	8 16.38	+12 20.5	1.683	2.490	15.8	19.7
12 23	8 12.53	+12 50.0	1.603	2.489	12.3	19.4
1 2	8 6.15	+13 35.4	1.545	2.488	8.2	19.2
1 12	7 57.95	+14 34.2	1.513	2.488	3.8	18.9
1 22	7 48.97	+15 41.6	1.508	2.488	2.8	18.9
2 1	7 40.43	+16 51.6	1.532	2.488	7.0	19.1
2 11	7 33.54	+17 58.8	1.582	2.489	11.2	19.4
2 21	7 29.11	+18 59.1	1.655	2.491	15.0	19.6

430835 2005 JF_{94} 1 17.3 259°.86 4°.5/14.1 17

12 13	8 20.08	+31 48.2	2.507	3.313	11.2	20.9
12 23	8 14.98	+33 7.7	2.413	3.298	8.7	20.7
1 2	8 7.59	+34 27.6	2.345	3.282	6.2	20.5
1 12	7 58.46	+35 41.7	2.306	3.266	4.5	20.4
1 22	7 48.46	+36 44.0	2.298	3.249	5.3	20.4
2 1	7 38.65	+37 30.3	2.319	3.232	7.7	20.5
2 11	7 30.11	+37 59.2	2.367	3.215	10.5	20.7
2 21	7 23.68	+38 11.9	2.439	3.198	13.0	20.8

279466 2010 UO_6 1 17.3 10°.20 12°.1/27.5 18

12 13	8 16.19	−15 45.3	1.439	2.128	23.2	19.3
12 23	8 12.71	−14 57.6	1.360	2.131	20.7	19.1
1 2	8 6.40	−13 21.5	1.296	2.136	17.7	18.9
1 12	7 58.07	−10 52.3	1.252	2.143	14.6	18.8
1 22	7 48.88	− 7 33.1	1.232	2.151	12.4	18.7
2 1	7 40.26	− 3 35.9	1.240	2.160	12.3	18.7
2 11	7 33.53	+ 0 39.7	1.276	2.171	14.4	18.8
2 21	7 29.60	+ 4 53.0	1.340	2.183	17.3	19.0

421793 2014 QA_{28} 1 17.3 77°.98 6°.5/20.8 18

12 13	8 18.64	+ 1 41.3	1.757	2.518	17.1	21.3
12 23	8 13.88	+ 1 36.1	1.690	2.534	14.0	21.2
1 2	8 6.79	+ 1 53.0	1.643	2.550	10.7	21.0
1 12	7 58.12	+ 2 32.7	1.621	2.566	7.7	20.8
1 22	7 48.90	+ 3 32.5	1.626	2.582	6.6	20.8
2 1	7 40.25	+ 4 47.6	1.659	2.598	8.2	20.9
2 11	7 33.23	+ 6 11.1	1.719	2.614	11.2	21.2
2 21	7 28.53	+ 7 36.2	1.802	2.630	14.3	21.4

119992 2002 XZ_{87} 1 17.3 44°.75 2°.8/16.7 18

12 13	8 26.76	+28 49.1	1.632	2.450	15.8	19.1
12 23	8 20.41	+28 41.2	1.562	2.456	12.0	18.8
1 2	8 11.02	+28 29.9	1.514	2.462	7.7	18.6
1 12	7 59.61	+28 10.7	1.493	2.469	3.6	18.4
1 22	7 47.60	+27 40.5	1.500	2.476	3.9	18.4
2 1	7 36.55	+26 59.1	1.536	2.483	8.0	18.7
2 11	7 27.78	+26 9.0	1.598	2.490	12.1	18.9
2 21	7 22.08	+25 13.9	1.682	2.497	15.7	19.2

110716 2001 TW_{230} 1 17.3 69°.94 7°.6/13.8 18

12 13	8 25.68	+37 28.1	1.714	2.529	15.2	19.6
12 23	8 19.95	+38 55.1	1.661	2.544	12.1	19.5
1 2	8 10.93	+40 14.6	1.632	2.558	9.3	19.3
1 12	7 59.63	+41 16.7	1.628	2.573	7.7	19.3
1 22	7 47.55	+41 53.9	1.652	2.588	8.4	19.3
2 1	7 36.39	+42 3.7	1.701	2.603	10.9	19.5
2 11	7 27.64	+41 48.4	1.775	2.617	13.7	19.7
2 21	7 22.15	+41 13.8	1.869	2.632	16.3	19.9

26613 2000 GL_2 1 17.3 226°.31 4°.0/19.2 18

12 13	8 16.84	+ 8 11.1	2.386	3.157	12.8	18.6
12 23	8 12.11	+ 7 50.0	2.296	3.154	10.2	18.5
1 2	8 5.53	+ 7 40.3	2.229	3.151	7.4	18.3
1 12	7 57.68	+ 7 42.3	2.189	3.148	4.8	18.1
1 22	7 49.29	+ 7 55.1	2.179	3.145	4.1	18.1
2 1	7 41.22	+ 8 16.9	2.198	3.141	6.2	18.2
2 11	7 34.31	+ 8 45.0	2.245	3.138	9.1	18.3
2 21	7 29.16	+ 9 16.5	2.317	3.134	11.9	18.5

377928 2006 GR_{10} 1 17.3 216°.85 5°.5/14.2 18

12 13	8 23.15	+36 53.1	2.448	3.248	11.7	21.5
12 23	8 17.27	+37 49.8	2.367	3.243	9.3	21.3
1 2	8 8.96	+38 41.4	2.311	3.237	7.0	21.2
1 12	7 58.92	+39 21.7	2.283	3.231	5.6	21.1
1 22	7 48.16	+39 45.7	2.284	3.224	6.2	21.1
2 1	7 37.86	+39 51.1	2.314	3.218	8.3	21.2
2 11	7 29.13	+39 38.5	2.370	3.210	10.8	21.4
2 21	7 22.75	+39 10.9	2.449	3.203	13.1	21.5

335910 2007 RS_{315} 1 17.3 70°.71 6°.7/21.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 15.40	− 1 13.0	2.242	2.977	14.6	20.6
12 23	8 11.07	− 1 26.5	2.163	2.985	12.2	20.5
1 2	8 4.88	− 1 20.7	2.106	2.992	9.7	20.3
1 12	7 57.44	− 0 54.5	2.073	3.000	7.6	20.2
1 22	7 49.51	− 0 8.9	2.068	3.008	6.7	20.2
2 1	7 41.96	+ 0 52.9	2.091	3.016	7.8	20.3
2 11	7 35.61	+ 2 5.9	2.142	3.024	9.9	20.4
2 21	7 31.07	+ 3 24.6	2.217	3.032	12.4	20.6

183975 2004 EX_{15} 1 17.3 142°.72 5°.0/15.3 18

12 13	8 27.91	+35 11.7	2.176	2.975	13.0	20.3
12 23	8 20.81	+35 48.3	2.108	2.986	10.1	20.1
1 2	8 11.09	+36 18.7	2.064	2.996	7.2	20.0
1 12	7 59.62	+36 36.9	2.048	3.005	5.2	19.9
1 22	7 47.62	+36 38.4	2.061	3.014	5.7	19.9
2 1	7 36.38	+36 22.1	2.104	3.022	8.1	20.1
2 11	7 27.08	+35 49.7	2.174	3.029	11.0	20.3
2 21	7 20.43	+35 5.4	2.267	3.036	13.6	20.5

6882 Sormano 1 17.3 174°.91 1°.8/17.8 18 R

12 13	8 24.03	+17 8.7	2.006	2.801	14.1	17.2
12 23	8 17.81	+16 39.7	1.922	2.802	10.8	17.0
1 2	8 9.22	+16 16.1	1.861	2.804	7.1	16.8
1 12	7 59.00	+15 57.0	1.829	2.805	3.1	16.6
1 22	7 48.17	+15 41.3	1.826	2.805	2.6	16.5
2 1	7 37.90	+15 28.1	1.854	2.805	6.4	16.8
2 11	7 29.24	+15 16.4	1.910	2.805	10.3	17.0
2 21	7 22.93	+15 5.7	1.990	2.805	13.6	17.2

221312 2005 VE_{17} 1 17.3 34°.12 6°.0/19.7 18

12 13	8 17.41	+ 6 5.9	1.609	2.398	17.3	19.9
12 23	8 13.19	+ 5 34.7	1.542	2.407	14.0	19.7
1 2	8 6.47	+ 5 22.0	1.496	2.418	10.3	19.6
1 12	7 58.05	+ 5 28.7	1.474	2.429	7.0	19.4
1 22	7 49.03	+ 5 53.7	1.478	2.441	6.1	19.4
2 1	7 40.62	+ 6 33.4	1.508	2.453	8.3	19.5
2 11	7 33.95	+ 7 22.6	1.564	2.466	11.7	19.7
2 21	7 29.74	+ 8 15.7	1.643	2.479	15.0	20.0

353282 2010 GZ_{27} 1 17.3 31°.39 3°.3/16.2 18

12 13	8 24.05	+26 36.8	1.398	2.229	17.2	21.1
12 23	8 18.99	+27 10.2	1.329	2.231	13.1	20.8
1 2	8 10.49	+27 45.9	1.282	2.233	8.4	20.6
1 12	7 59.55	+28 16.7	1.259	2.235	4.0	20.3
1 22	7 47.68	+28 36.1	1.263	2.238	4.6	20.4
2 1	7 36.67	+28 40.4	1.294	2.241	9.2	20.6
2 11	7 28.11	+28 29.9	1.349	2.244	13.7	20.9
2 21	7 22.94	+28 7.3	1.425	2.247	17.7	21.2

369960 1994 RC_9 1 17.3 75°.45 0°.1/17.3 18

12 13	8 19.61	+19 26.9	1.969	2.778	13.8	21.7
12 23	8 14.55	+19 40.2	1.896	2.786	10.4	21.5
1 2	8 7.20	+19 59.9	1.846	2.794	6.6	21.3
1 12	7 58.30	+20 22.8	1.824	2.803	2.3	21.0
1 22	7 48.83	+20 45.6	1.831	2.811	2.0	21.0
2 1	7 39.92	+21 5.4	1.867	2.820	6.2	21.3
2 11	7 32.59	+21 20.3	1.930	2.828	10.0	21.5
2 21	7 27.52	+21 29.8	2.017	2.837	13.3	21.8

96403 1998 DT_{22} 1 17.3 169°.75 1°.3/16.8 18

12 13	8 25.02	+23 44.8	1.852	2.661	14.5	20.4
12 23	8 18.88	+23 58.2	1.773	2.664	11.0	20.2
1 2	8 10.04	+24 14.5	1.718	2.666	6.9	19.9
1 12	7 59.33	+24 29.2	1.690	2.668	2.6	19.7
1 22	7 47.91	+24 38.7	1.691	2.670	2.8	19.7
2 1	7 37.13	+24 40.2	1.722	2.671	7.1	19.9
2 11	7 28.20	+24 33.5	1.781	2.672	11.1	20.2
2 21	7 21.94	+24 19.8	1.862	2.672	14.6	20.4

240030 2001 UY_{82} 1 17.3 34°.90 1°.3/16.8 18

12 13	8 21.00	+21 6.2	1.221	2.059	18.7	20.2
12 23	8 16.84	+21 43.1	1.162	2.068	14.2	19.9
1 2	8 9.19	+22 29.6	1.123	2.077	8.9	19.6
1 12	7 59.10	+23 19.2	1.107	2.087	3.2	19.3
1 22	7 48.14	+24 4.4	1.118	2.098	3.4	19.4
2 1	7 38.12	+24 39.4	1.154	2.109	8.9	19.7
2 11	7 30.63	+25 1.7	1.214	2.121	13.9	20.0
2 21	7 26.57	+25 11.6	1.294	2.133	18.1	20.3

520951 2014 YO_{58} 1 17.3 267°.29 0°.8/17.7 18

12 13	8 17.95	+17 8.1	2.145	2.947	13.0	21.7
12 23	8 13.22	+17 19.7	2.060	2.946	10.0	21.5
1 2	8 6.36	+17 39.0	1.999	2.944	6.4	21.2
1 12	7 58.02	+18 3.8	1.965	2.943	2.5	21.0
1 22	7 49.08	+18 31.1	1.961	2.942	2.0	20.9
2 1	7 40.54	+18 57.9	1.987	2.941	5.9	21.2
2 11	7 33.36	+19 21.9	2.040	2.939	9.5	21.4
2 21	7 28.23	+19 41.6	2.118	2.938	12.7	21.6

53642 2000 DH_{18} 1 17.3 210.°10 1.°1/16.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 21.83	+22 24.7	1.939	2.749	13.9	20.0
12 23	8 16.46	+22 49.9	1.854	2.746	10.6	19.8
1 2	8 8.55	+23 19.9	1.793	2.742	6.6	19.6
1 12	7 58.83	+23 50.6	1.760	2.739	2.4	19.3
1 22	7 48.35	+24 17.7	1.756	2.735	2.6	19.3
2 1	7 38.35	+24 37.6	1.781	2.730	6.8	19.5
2 11	7 29.99	+24 49.0	1.833	2.725	10.8	19.8
2 21	7 24.09	+24 52.1	1.909	2.720	14.2	20.0

451869 2014 HV_{21} 1 17.3 185.°97 0.°1/17.2 18

12 13	8 24.44	+19 48.5	1.734	2.542	15.4	22.7
12 23	8 18.63	+20 6.2	1.653	2.543	11.7	22.4
1 2	8 10.01	+20 31.3	1.594	2.542	7.4	22.2
1 12	7 59.36	+20 59.8	1.562	2.541	2.6	21.9
1 22	7 47.88	+21 27.2	1.559	2.540	2.4	21.9
2 1	7 36.96	+21 50.0	1.585	2.538	7.2	22.2
2 11	7 27.92	+22 6.0	1.639	2.535	11.6	22.4
2 21	7 21.63	+22 14.9	1.715	2.532	15.4	22.6

493946 2016 AL_{22} 1 17.3 74.°92 1.°2/16.8 18

12 13	8 22.17	+20 52.2	1.600	2.419	16.0	21.1
12 23	8 16.94	+21 37.8	1.540	2.436	12.0	20.9
1 2	8 8.89	+22 31.1	1.502	2.453	7.5	20.7
1 12	7 58.94	+23 26.3	1.491	2.470	2.7	20.4
1 22	7 48.34	+24 17.0	1.508	2.487	2.9	20.5
2 1	7 38.52	+24 58.6	1.554	2.504	7.5	20.8
2 11	7 30.73	+25 28.6	1.625	2.521	11.7	21.1
2 21	7 25.74	+25 47.1	1.719	2.538	15.2	21.3

296679 2009 SD_{211} 1 17.3 76.°93 0.°4/17.5 18

12 13	8 19.68	+18 17.2	1.894	2.703	14.3	21.4
12 23	8 14.70	+18 33.1	1.821	2.711	10.8	21.1
1 2	8 7.35	+18 56.7	1.772	2.719	6.8	20.9
1 12	7 58.39	+19 25.1	1.749	2.728	2.5	20.7
1 22	7 48.83	+19 54.4	1.755	2.736	2.1	20.7
2 1	7 39.84	+20 21.4	1.791	2.744	6.4	20.9
2 11	7 32.46	+20 43.8	1.853	2.753	10.3	21.2
2 21	7 27.42	+21 0.3	1.939	2.761	13.6	21.4

323091 2002 VL_{26} 1 17.3 21.°68 3.°7/18.4 18

12 13	8 17.19	+13 49.2	1.105	1.943	20.3	20.2
12 23	8 13.86	+13 19.9	1.056	1.957	15.7	19.9
1 2	8 7.22	+13 6.7	1.025	1.973	10.5	19.7
1 12	7 58.38	+13 8.7	1.016	1.990	5.4	19.5
1 22	7 48.90	+13 23.0	1.031	2.009	4.3	19.5
2 1	7 40.45	+13 45.5	1.071	2.030	8.8	19.8
2 11	7 34.48	+14 11.2	1.133	2.052	13.6	20.1
2 21	7 31.74	+14 36.3	1.216	2.075	17.7	20.4

236776 2007 PH_{10} 1 17.3 144.°66 0.°5/17.5 18

12 13	8 23.45	+17 46.4	1.935	2.734	14.4	21.5
12 23	8 17.49	+18 6.2	1.860	2.744	10.9	21.3
1 2	8 9.08	+18 34.0	1.809	2.754	6.9	21.1
1 12	7 59.00	+19 6.7	1.785	2.764	2.5	20.8
1 22	7 48.30	+19 40.2	1.792	2.773	2.1	20.8
2 1	7 38.17	+20 11.0	1.828	2.781	6.4	21.1
2 11	7 29.72	+20 36.8	1.893	2.788	10.4	21.4
2 21	7 23.68	+20 56.6	1.981	2.795	13.7	21.6

46458 4244 P–L 1 17.3 210.°13 3.°1/18.6 18

12 13	8 20.99	+11 16.5	2.119	2.899	13.9	20.7
12 23	8 15.55	+11 10.4	2.025	2.893	10.9	20.5
1 2	8 7.88	+11 15.8	1.954	2.886	7.5	20.3
1 12	7 58.61	+11 31.8	1.911	2.879	4.2	20.1
1 22	7 48.62	+11 56.6	1.897	2.871	3.4	20.0
2 1	7 38.97	+12 27.5	1.913	2.863	6.4	20.2
2 11	7 30.68	+13 1.2	1.957	2.853	10.0	20.4
2 21	7 24.50	+13 35.1	2.026	2.843	13.3	20.6

271013 2002 YN_{29} 1 17.3 49.°03 0.°6/17.2 18

12 13	8 26.63	+24 14.0	1.577	2.393	16.3	19.8
12 23	8 20.23	+23 42.4	1.511	2.405	12.3	19.5
1 2	8 10.88	+23 10.9	1.467	2.417	7.7	19.3
1 12	7 59.61	+22 36.8	1.449	2.429	2.7	19.0
1 22	7 47.84	+21 58.8	1.461	2.441	2.5	19.0
2 1	7 37.04	+21 17.0	1.501	2.454	7.4	19.4
2 11	7 28.51	+20 33.0	1.567	2.467	11.8	19.7
2 21	7 22.97	+19 48.8	1.656	2.480	15.5	19.9

469195 2016 GW_{150} 1 17.3 221.°92 0.°3/17.5 18

12 13	8 16.80	+16 20.9	2.437	3.233	11.9	20.8
12 23	8 12.21	+17 8.8	2.347	3.230	9.0	20.6
1 2	8 5.70	+18 6.2	2.282	3.227	5.7	20.4
1 12	7 57.83	+19 9.7	2.245	3.224	2.1	20.1
1 22	7 49.35	+20 15.3	2.240	3.221	1.7	20.1
2 1	7 41.14	+21 18.6	2.265	3.217	5.4	20.4
2 11	7 34.06	+22 16.2	2.320	3.214	8.8	20.6
2 21	7 28.79	+23 6.1	2.400	3.210	11.7	20.7

188280 2003 AF_{80} 1 17.3 345.°73 0.°7/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 16.73	+14 30.3	1.564	2.381	16.4	19.1
12 23	8 13.14	+15 31.7	1.482	2.376	12.6	18.9
1 2	8 6.76	+16 50.9	1.422	2.371	8.1	18.6
1 12	7 58.31	+18 23.0	1.388	2.367	3.0	18.3
1 22	7 48.89	+20 0.5	1.382	2.363	2.4	18.2
2 1	7 39.88	+21 35.2	1.404	2.360	7.5	18.5
2 11	7 32.63	+23 0.1	1.453	2.358	12.2	18.8
2 21	7 28.08	+24 11.5	1.523	2.356	16.2	19.0

203076 2000 QU_{49} 1 17.3 69.°37 0.°9/16.9 17

12 13	8 24.71	+21 22.2	1.414	2.237	17.5	20.6
12 23	8 19.04	+21 45.9	1.360	2.258	13.2	20.4
1 2	8 10.26	+22 16.2	1.327	2.279	8.2	20.2
1 12	7 59.44	+22 47.7	1.320	2.300	2.9	19.9
1 22	7 48.03	+23 15.0	1.341	2.321	2.9	20.0
2 1	7 37.64	+23 34.3	1.389	2.342	7.9	20.3
2 11	7 29.62	+23 44.3	1.462	2.363	12.4	20.6
2 21	7 24.73	+23 45.7	1.557	2.384	16.2	20.9

380667 2005 EV_{257} 1 17.3 78.°28 5.°2/20.1 18

12 13	8 16.44	+ 4 15.7	2.225	2.985	13.9	21.1
12 23	8 11.87	+ 3 59.8	2.149	2.995	11.3	20.9
1 2	8 5.41	+ 3 59.4	2.095	3.005	8.5	20.8
1 12	7 57.70	+ 4 14.9	2.068	3.015	6.0	20.6
1 22	7 49.52	+ 4 45.0	2.068	3.026	5.2	20.6
2 1	7 41.75	+ 5 27.0	2.098	3.036	6.8	20.7
2 11	7 35.23	+ 6 16.8	2.155	3.046	9.5	20.9
2 21	7 30.54	+ 7 10.4	2.236	3.056	12.1	21.1

324567 2006 WP_{140} 1 17.3 339.°50 2.°4/16.4 16

12 13	8 17.97	+24 0.9	1.387	2.225	16.9	21.1
12 23	8 14.54	+24 35.7	1.307	2.214	12.9	20.9
1 2	8 7.86	+25 16.9	1.249	2.203	8.2	20.6
1 12	7 58.74	+25 58.3	1.215	2.194	3.4	20.3
1 22	7 48.53	+26 33.2	1.207	2.185	3.9	20.3
2 1	7 38.90	+26 56.4	1.225	2.177	8.9	20.5
2 11	7 31.44	+27 6.0	1.267	2.171	13.7	20.8
2 21	7 27.19	+27 2.7	1.330	2.165	17.9	21.0

492132 2013 MK_{9} 1 17.3 138.°88 0.°7/16.9 18

12 13	8 22.94	+22 43.1	2.279	3.079	12.4	21.7
12 23	8 16.77	+22 49.9	2.204	3.090	9.4	21.5
1 2	8 8.47	+22 59.0	2.153	3.100	5.9	21.3
1 12	7 58.77	+23 7.6	2.131	3.110	2.1	21.1
1 22	7 48.60	+23 12.9	2.139	3.119	2.1	21.1
2 1	7 38.98	+23 13.2	2.179	3.128	5.8	21.3
2 11	7 30.85	+23 8.1	2.246	3.136	9.2	21.6
2 21	7 24.85	+22 57.9	2.339	3.144	12.2	21.8

419211 2009 UJ_{113} 1 17.3 144.°13 2.°6/16.1 18

12 13	8 21.87	+26 32.1	2.152	2.962	12.8	22.1
12 23	8 16.26	+27 11.9	2.077	2.968	9.6	21.9
1 2	8 8.31	+27 53.1	2.027	2.974	6.2	21.7
1 12	7 58.76	+28 30.7	2.005	2.980	3.0	21.5
1 22	7 48.60	+29 0.2	2.013	2.985	3.5	21.5
2 1	7 38.96	+29 18.7	2.050	2.990	6.8	21.7
2 11	7 30.90	+29 25.6	2.115	2.995	10.2	22.0
2 21	7 25.13	+29 21.9	2.204	3.000	13.1	22.2

502781 2015 DO_{94} 1 17.3 21.°66 0.°1/17.4 18

12 13	8 16.63	+17 36.5	2.233	3.037	12.5	21.3
12 23	8 12.21	+18 16.7	2.150	3.038	9.5	21.1
1 2	8 5.75	+19 5.4	2.091	3.039	6.0	20.9
1 12	7 57.87	+19 59.5	2.061	3.040	2.1	20.6
1 22	7 49.39	+20 54.6	2.060	3.041	1.8	20.6
2 1	7 41.25	+21 46.7	2.090	3.042	5.7	20.9
2 11	7 34.40	+22 32.7	2.147	3.043	9.3	21.1
2 21	7 29.50	+23 10.9	2.229	3.045	12.3	21.3

456772 2007 TW_{135} 1 17.3 80.°25 4.°6/16.1 17

12 13	8 32.93	+32 19.2	1.629	2.438	16.2	21.2
12 23	8 24.84	+32 43.5	1.584	2.470	12.4	21.0
1 2	8 13.63	+33 1.7	1.561	2.502	8.3	20.8
1 12	8 0.55	+33 6.9	1.565	2.533	5.1	20.7
1 22	7 47.19	+32 54.9	1.599	2.564	5.4	20.8
2 1	7 35.20	+32 25.8	1.660	2.594	8.7	21.1
2 11	7 25.83	+31 42.9	1.749	2.624	12.2	21.3
2 21	7 19.74	+30 51.4	1.859	2.653	15.3	21.6

396638 2001 WR_{2} 1 17.3 106.°03 12.°4/23.4 18

12 13	8 24.77	−11 41.2	1.890	2.558	18.9	21.7
12 23	8 18.32	−13 14.4	1.835	2.585	16.8	21.6
1 2	8 9.52	−14 20.5	1.799	2.610	14.7	21.5
1 12	7 59.16	−14 54.0	1.784	2.634	13.1	21.4
1 22	7 48.31	−14 52.9	1.794	2.658	12.4	21.4
2 1	7 38.11	−14 18.9	1.827	2.681	12.8	21.5
2 11	7 29.63	−13 18.3	1.885	2.703	14.0	21.6
2 21	7 23.53	−11 59.3	1.963	2.724	15.7	21.8

225196 2008 JK_{17} 1 17.3 158°.73 2°.3/16.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 20.90	+24 25.9	2.053	2.864	13.2	20.6
12 23	8 15.68	+25 18.7	1.975	2.867	10.0	20.4
1 2	8 8.05	+26 15.7	1.922	2.870	6.3	20.2
1 12	7 58.71	+27 11.5	1.896	2.873	2.9	20.0
1 22	7 48.66	+28 0.5	1.901	2.875	3.4	20.0
2 1	7 39.07	+28 38.8	1.935	2.877	7.0	20.2
2 11	7 31.05	+29 4.6	1.996	2.879	10.5	20.5
2 21	7 25.37	+29 18.4	2.081	2.881	13.6	20.7

87142 2000 NL_{13} 1 17.3 98°.29 3°.8/19.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.91	+ 6 2.9	2.161	2.923	14.2	19.6
12 23	8 14.45	+ 6 31.8	2.094	2.948	11.3	19.5
1 2	8 7.02	+ 7 17.2	2.050	2.971	8.0	19.3
1 12	7 58.29	+ 8 17.1	2.034	2.994	4.9	19.1
1 22	7 49.11	+ 9 28.0	2.047	3.017	3.9	19.1
2 1	7 40.45	+10 44.9	2.092	3.039	6.1	19.3
2 11	7 33.17	+12 2.6	2.165	3.061	9.2	19.5
2 21	7 27.87	+13 17.0	2.264	3.082	12.1	19.7

331630 2002 GB_{59} 1 17.3 305°.86 1°.1/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.80	+21 45.4	1.452	2.280	16.8	21.1
12 23	8 16.60	+22 5.9	1.365	2.266	12.9	20.8
1 2	8 9.15	+22 33.9	1.299	2.252	8.2	20.5
1 12	7 59.24	+23 4.7	1.259	2.238	3.0	20.2
1 22	7 48.17	+23 32.8	1.245	2.225	3.0	20.1
2 1	7 37.58	+23 53.4	1.258	2.212	8.4	20.4
2 11	7 29.09	+24 4.3	1.295	2.199	13.5	20.7
2 21	7 23.76	+24 5.5	1.354	2.187	17.8	20.9

271265 2003 UU_{158} 1 17.3 159°.43 3°.4/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.36	+30 46.6	2.681	3.482	10.7	21.2
12 23	8 15.54	+31 33.2	2.605	3.488	8.2	21.1
1 2	8 7.73	+32 18.1	2.554	3.494	5.6	20.9
1 12	7 58.56	+32 56.9	2.533	3.499	3.6	20.8
1 22	7 48.86	+33 25.5	2.543	3.504	4.1	20.8
2 1	7 39.58	+33 41.7	2.583	3.508	6.4	21.0
2 11	7 31.61	+33 45.3	2.651	3.512	9.0	21.2
2 21	7 25.58	+33 37.7	2.743	3.515	11.4	21.3

93039 2000 RL_{106} 1 17.3 212°.07 6°.3/19.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.18	+ 3 44.3	2.121	2.877	14.7	20.1
12 23	8 14.13	+ 2 57.8	2.033	2.874	12.1	19.9
1 2	8 6.97	+ 2 25.9	1.967	2.871	9.3	19.7
1 12	7 58.33	+ 2 10.5	1.926	2.867	7.0	19.5
1 22	7 49.05	+ 2 12.1	1.914	2.863	6.3	19.5
2 1	7 40.13	+ 2 29.4	1.930	2.860	7.9	19.6
2 11	7 32.52	+ 2 59.2	1.973	2.855	10.7	19.7
2 21	7 26.93	+ 3 37.2	2.039	2.851	13.4	19.9

427660 2003 YD_{166} 1 17.3 24°.50 0°.1/17.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.13	+19 7.7	1.725	2.545	14.9	21.1
12 23	8 13.02	+19 34.0	1.657	2.554	11.3	20.9
1 2	8 6.43	+20 8.6	1.612	2.563	7.1	20.7
1 12	7 58.15	+20 47.6	1.593	2.573	2.5	20.4
1 22	7 49.24	+21 26.5	1.602	2.583	2.2	20.4
2 1	7 40.94	+22 1.1	1.640	2.594	6.7	20.8
2 11	7 34.35	+22 28.9	1.703	2.606	10.8	21.0
2 21	7 30.21	+22 48.7	1.789	2.619	14.3	21.3

202822 2008 SP_{106} 1 17.3 59°.23 1°.0/17.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.72	+16 46.6	1.952	2.757	14.0	20.6
12 23	8 13.85	+16 58.5	1.885	2.772	10.7	20.4
1 2	8 6.77	+17 19.0	1.842	2.788	6.8	20.2
1 12	7 58.23	+17 45.2	1.826	2.803	2.7	19.9
1 22	7 49.20	+18 14.0	1.838	2.819	2.1	19.9
2 1	7 40.74	+18 42.2	1.880	2.835	6.1	20.2
2 11	7 33.84	+19 7.2	1.950	2.851	9.8	20.5
2 21	7 29.15	+19 27.7	2.043	2.867	13.0	20.7

124371 2001 QJ_{152} 1 17.3 54°.43 3°.3/18.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.70	+11 26.0	1.291	2.106	19.3	19.4
12 23	8 16.26	+11 36.7	1.231	2.120	15.0	19.2
1 2	8 8.70	+12 6.5	1.192	2.135	10.1	19.0
1 12	7 58.99	+12 52.9	1.177	2.150	5.1	18.7
1 22	7 48.53	+13 50.5	1.187	2.165	3.8	18.7
2 1	7 38.93	+14 52.7	1.224	2.181	8.2	19.0
2 11	7 31.58	+15 53.3	1.285	2.197	12.9	19.3
2 21	7 27.33	+16 47.6	1.368	2.213	17.0	19.6

493328 2014 UT_{216} 1 17.3 86°.62 2°.6/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.19	+23 49.1	1.838	2.654	14.3	20.5
12 23	8 16.11	+25 3.8	1.771	2.666	10.8	20.2
1 2	8 8.41	+26 24.2	1.728	2.678	6.8	20.0
1 12	7 58.88	+27 43.4	1.713	2.689	3.2	19.8
1 22	7 48.61	+28 54.2	1.728	2.701	3.8	19.9
2 1	7 38.91	+29 51.3	1.772	2.713	7.6	20.2
2 11	7 30.98	+30 32.5	1.842	2.724	11.3	20.4
2 21	7 25.61	+30 58.2	1.935	2.736	14.5	20.6

191604 2004 GL_{48} 1 17.3 188°.69 0°.1/17.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 24.65	+19 2.3	1.791	2.595	15.1	21.5
12 23	8 18.76	+19 19.6	1.707	2.595	11.6	21.2
1 2	8 10.12	+19 44.8	1.647	2.594	7.3	21.0
1 12	7 59.51	+20 14.1	1.613	2.592	2.6	20.7
1 22	7 48.06	+20 43.4	1.609	2.590	2.3	20.7
2 1	7 37.13	+21 8.9	1.634	2.587	7.0	21.0
2 11	7 28.00	+21 28.3	1.687	2.583	11.4	21.2
2 21	7 21.54	+21 41.1	1.763	2.578	15.1	21.4

150137 1995 VV_{14} 1 17.3 176°.12 7°.4/21.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.16	− 8 16.2	3.218	3.883	11.8	21.0
12 23	8 11.20	− 9 7.3	3.130	3.885	10.4	20.9
1 2	8 4.85	− 9 43.3	3.064	3.887	8.9	20.8
1 12	7 57.55	−10 1.8	3.023	3.888	7.8	20.7
1 22	7 49.85	−10 2.0	3.009	3.889	7.4	20.7
2 1	7 42.38	− 9 44.5	3.022	3.889	7.8	20.7
2 11	7 35.74	− 9 11.8	3.063	3.889	9.0	20.8
2 21	7 30.40	− 8 27.4	3.127	3.889	10.4	20.9

423866 2006 RR_{21} 1 17.3 166°.42 3°.0/15.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.26	+31 42.0	3.136	3.933	9.5	22.2
12 23	8 14.45	+32 16.2	3.057	3.938	7.3	22.0
1 2	8 6.94	+32 47.9	3.004	3.942	4.9	21.9
1 12	7 58.29	+33 13.6	2.981	3.946	3.2	21.8
1 22	7 49.22	+33 30.4	2.989	3.949	3.6	21.8
2 1	7 40.51	+33 36.6	3.028	3.952	5.7	21.9
2 11	7 32.92	+33 32.2	3.096	3.955	8.0	22.1
2 21	7 26.99	+33 18.6	3.188	3.957	10.0	22.3

56715 2000 MT_{3} 1 17.3 209°.85 0°.1/17.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.30	+19 47.1	2.010	2.809	13.9	20.3
12 23	8 18.32	+20 4.7	1.917	2.803	10.6	20.0
1 2	8 9.79	+20 28.7	1.848	2.795	6.7	19.8
1 12	7 59.41	+20 55.8	1.807	2.786	2.4	19.5
1 22	7 48.20	+21 22.1	1.797	2.777	2.2	19.4
2 1	7 37.38	+21 44.3	1.816	2.767	6.6	19.7
2 11	7 28.13	+22 0.5	1.863	2.756	10.7	19.9
2 21	7 21.31	+22 10.2	1.935	2.744	14.2	20.1

453381 2009 BN_{126} 1 17.3 348°.00 0°.0/17.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.73	+18 54.7	1.305	2.140	18.0	21.6
12 23	8 15.15	+19 17.2	1.231	2.134	13.8	21.3
1 2	8 8.27	+19 51.5	1.177	2.130	8.7	21.0
1 12	7 58.96	+20 32.9	1.146	2.126	3.1	20.6
1 22	7 48.59	+21 15.5	1.142	2.123	2.8	20.6
2 1	7 38.87	+21 53.6	1.163	2.121	8.5	20.9
2 11	7 31.37	+22 23.3	1.208	2.119	13.6	21.2
2 21	7 27.11	+22 43.2	1.274	2.118	18.0	21.5

89573 2001 XD_{118} 1 17.3 60°.70 3°.3/16.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.78	+25 53.3	1.306	2.138	18.1	18.8
12 23	8 20.21	+26 38.1	1.258	2.160	13.7	18.6
1 2	8 11.18	+27 25.5	1.230	2.182	8.7	18.3
1 12	7 59.87	+28 7.3	1.228	2.204	4.1	18.1
1 22	7 47.95	+28 36.7	1.252	2.227	4.6	18.2
2 1	7 37.21	+28 50.1	1.302	2.249	9.1	18.5
2 11	7 29.13	+28 47.9	1.377	2.272	13.5	18.9
2 21	7 24.49	+28 33.2	1.473	2.295	17.2	19.2

76805 2000 QY_{14} 1 17.3 208°.85 0°.1/17.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.54	+19 24.6	3.561	4.353	8.5	20.1
12 23	8 9.20	+19 41.6	3.468	4.350	6.4	20.0
1 2	8 3.59	+20 2.2	3.401	4.347	4.0	19.8
1 12	7 57.12	+20 24.9	3.364	4.343	1.4	19.6
1 22	7 50.30	+20 47.7	3.359	4.339	1.2	19.6
2 1	7 43.68	+21 8.9	3.385	4.336	3.9	19.8
2 11	7 37.84	+21 27.3	3.440	4.331	6.3	20.0
2 21	7 33.19	+21 42.1	3.523	4.327	8.4	20.1

411776 2012 BW_{148} 1 17.3 23°.16 1°.4/16.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.20	+19 53.8	1.525	2.351	16.3	20.3
12 23	8 15.09	+21 1.4	1.454	2.354	12.3	20.0
1 2	8 8.04	+22 20.7	1.405	2.357	7.7	19.8
1 12	7 58.85	+23 44.9	1.382	2.361	2.8	19.5
1 22	7 48.75	+25 5.7	1.387	2.366	3.2	19.5
2 1	7 39.21	+26 16.0	1.419	2.370	8.0	19.8
2 11	7 31.64	+27 11.5	1.477	2.375	12.5	20.1
2 21	7 26.95	+27 51.2	1.557	2.381	16.3	20.3

272873 2006 BQ_{82} 1 17.3 42°.40 1°.1/17.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.91	+17 31.3	1.768	2.579	15.0	20.9
12 23	8 15.05	+17 28.3	1.695	2.585	11.5	20.7
1 2	8 7.70	+17 33.3	1.645	2.592	7.4	20.5
1 12	7 58.65	+17 44.1	1.621	2.599	2.9	20.2
1 22	7 48.98	+17 57.8	1.625	2.606	2.3	20.2
2 1	7 39.92	+18 11.6	1.658	2.613	6.6	20.5
2 11	7 32.57	+18 23.6	1.718	2.621	10.7	20.7
2 21	7 27.69	+18 32.3	1.800	2.629	14.3	21.0

59209 1999 BD_{13} 1 17.3 18°.71 3°.3/18.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 19.14	+11 16.7	1.345	2.160	18.7	18.8
12 23	8 15.21	+11 28.9	1.273	2.162	14.6	18.5
1 2	8 8.18	+12 0.4	1.221	2.164	9.9	18.3
1 12	7 58.92	+12 49.2	1.193	2.166	5.1	18.0
1 22	7 48.72	+13 50.4	1.191	2.169	3.8	17.9
2 1	7 39.14	+14 57.5	1.215	2.173	8.2	18.2
2 11	7 31.66	+16 3.6	1.264	2.176	13.0	18.5
2 21	7 27.21	+17 3.9	1.335	2.180	17.3	18.7

279872 2001 OD_{38} 1 17.3 98°.41 2°.3/16.3 18

12 13	8 26.85	+23 4.9	1.599	2.412	16.2	21.1
12 23	8 20.52	+24 9.3	1.544	2.437	12.2	20.9
1 2	8 11.21	+25 19.3	1.512	2.462	7.6	20.7
1 12	7 59.90	+26 27.3	1.508	2.485	3.2	20.5
1 22	7 47.97	+27 25.8	1.533	2.508	3.7	20.6
2 1	7 36.92	+28 10.1	1.586	2.531	8.0	20.9
2 11	7 28.09	+28 38.7	1.666	2.553	12.1	21.2
2 21	7 22.26	+28 53.2	1.768	2.574	15.5	21.4

433484 2013 WW_{7} 1 17.3 44°.52 0°.9/17.7 18

12 13	8 18.25	+17 33.0	2.092	2.896	13.3	21.4
12 23	8 13.47	+17 34.5	2.015	2.901	10.1	21.2
1 2	8 6.58	+17 43.0	1.962	2.907	6.5	21.0
1 12	7 58.25	+17 56.4	1.936	2.913	2.5	20.7
1 22	7 49.39	+18 12.1	1.939	2.920	2.0	20.7
2 1	7 41.01	+18 27.7	1.972	2.926	5.9	21.0
2 11	7 34.06	+18 41.3	2.032	2.932	9.5	21.2
2 21	7 29.19	+18 51.7	2.117	2.939	12.6	21.4

112933 2002 RT_{2} 1 17.3 67°.75 3°.5/19.3 18

12 13	8 16.58	+ 8 36.6	2.153	2.932	13.8	19.8
12 23	8 12.14	+ 8 42.3	2.073	2.938	10.9	19.6
1 2	8 5.73	+ 9 1.9	2.016	2.944	7.7	19.4
1 12	7 57.96	+ 9 34.5	1.987	2.951	4.6	19.2
1 22	7 49.66	+10 17.8	1.985	2.957	3.7	19.2
2 1	7 41.75	+11 8.1	2.014	2.963	6.2	19.4
2 11	7 35.13	+12 1.5	2.070	2.970	9.4	19.6
2 21	7 30.43	+12 54.2	2.151	2.976	12.3	19.8

149584 2004 BD_{108} 1 17.3 320°.45 2°.1/16.5 18

12 13	8 20.41	+23 37.0	1.571	2.398	15.8	20.2
12 23	8 16.08	+24 14.9	1.490	2.390	12.1	20.0
1 2	8 8.73	+24 58.8	1.431	2.383	7.6	19.7
1 12	7 59.15	+25 43.0	1.398	2.376	3.1	19.4
1 22	7 48.58	+26 21.3	1.392	2.370	3.6	19.4
2 1	7 38.54	+26 48.9	1.414	2.363	8.2	19.7
2 11	7 30.48	+27 3.7	1.460	2.357	12.7	19.9
2 21	7 25.36	+27 6.5	1.528	2.352	16.6	20.2

290582 2005 UA_{153} 1 17.3 161°.96 1°.9/16.4 18

12 13	8 21.61	+24 36.1	2.106	2.915	13.0	21.0
12 23	8 16.16	+25 9.3	2.027	2.918	9.8	20.8
1 2	8 8.35	+25 45.3	1.973	2.921	6.2	20.6
1 12	7 58.92	+26 19.8	1.946	2.924	2.6	20.4
1 22	7 48.84	+26 48.2	1.950	2.926	3.0	20.4
2 1	7 39.25	+27 7.6	1.983	2.928	6.6	20.6
2 11	7 31.22	+27 16.9	2.043	2.929	10.2	20.8
2 21	7 25.48	+27 16.8	2.127	2.931	13.3	21.0

58913 1998 KY_{34} 1 17.3 160°.51 1°.6/18.2 18

12 13	8 18.89	+14 28.7	2.249	3.040	12.9	20.0
12 23	8 13.86	+14 39.4	2.165	3.043	9.9	19.8
1 2	8 6.80	+14 59.4	2.106	3.046	6.5	19.6
1 12	7 58.35	+15 26.8	2.074	3.049	2.9	19.4
1 22	7 49.34	+15 58.8	2.073	3.052	2.2	19.4
2 1	7 40.72	+16 32.5	2.101	3.054	5.7	19.6
2 11	7 33.40	+17 5.1	2.158	3.056	9.1	19.8
2 21	7 28.03	+17 34.5	2.240	3.058	12.2	20.0

138364 2000 GU_{138} 1 17.3 6°.98 1°.3/17.9 18

12 13	8 15.52	+14 13.3	1.275	2.106	18.5	18.0
12 23	8 12.67	+14 56.0	1.206	2.107	14.3	17.7
1 2	8 6.69	+15 57.8	1.158	2.108	9.2	17.5
1 12	7 58.44	+17 14.1	1.133	2.111	3.7	17.1
1 22	7 49.24	+18 37.3	1.134	2.115	2.7	17.1
2 1	7 40.67	+19 59.0	1.161	2.121	8.2	17.4
2 11	7 34.22	+21 12.0	1.212	2.127	13.2	17.7
2 21	7 30.86	+22 12.3	1.284	2.134	17.5	18.0

35777 1999 JB_{13} 1 17.3 167°.28 0°.3/17.5 18

12 13	8 19.72	+17 23.9	2.638	3.426	11.3	19.5
12 23	8 14.23	+17 57.1	2.552	3.432	8.5	19.3
1 2	8 6.93	+18 37.2	2.493	3.436	5.4	19.1
1 12	7 58.38	+19 21.4	2.462	3.440	2.0	18.9
1 22	7 49.32	+20 6.5	2.463	3.444	1.6	18.9
2 1	7 40.58	+20 49.2	2.496	3.447	5.0	19.1
2 11	7 32.96	+21 27.2	2.558	3.449	8.2	19.3
2 21	7 27.08	+21 59.2	2.646	3.450	10.9	19.5

350621 2001 SH_{211} 1 17.3 119°.13 2°.6/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 27.14	+25 39.5	1.653	2.467	15.8	21.5
12 23	8 20.77	+26 14.7	1.589	2.482	11.9	21.3
1 2	8 11.40	+26 52.0	1.548	2.496	7.6	21.1
1 12	8 0.01	+27 25.2	1.534	2.510	3.4	20.9
1 22	7 47.95	+27 48.7	1.548	2.523	3.8	20.9
2 1	7 36.74	+27 59.4	1.591	2.536	8.0	21.2
2 11	7 27.72	+27 57.3	1.661	2.548	12.0	21.5
2 21	7 21.70	+27 44.6	1.752	2.560	15.5	21.7

243420 2009 BA_{178} 1 17.3 169°.20 3°.0/18.8 18

12 13	8 20.83	+10 35.6	2.057	2.837	14.3	20.7
12 23	8 15.48	+10 43.3	1.973	2.841	11.2	20.5
1 2	8 7.90	+11 4.0	1.912	2.844	7.7	20.3
1 12	7 58.77	+11 36.6	1.878	2.847	4.2	20.1
1 22	7 48.99	+12 18.3	1.874	2.849	3.3	20.1
2 1	7 39.62	+13 5.3	1.900	2.851	6.4	20.3
2 11	7 31.68	+13 53.7	1.954	2.852	9.9	20.5
2 21	7 25.87	+14 40.3	2.033	2.852	13.2	20.7

399487 2002 TS_{36} 1 17.3 101°.31 2°.9/16.1 18

12 13	8 25.97	+27 12.3	1.963	2.770	13.9	21.9
12 23	8 19.40	+27 55.0	1.906	2.795	10.5	21.7
1 2	8 10.30	+28 38.0	1.873	2.819	6.7	21.5
1 12	7 59.57	+29 15.3	1.868	2.842	3.4	21.4
1 22	7 48.36	+29 42.2	1.893	2.865	3.9	21.4
2 1	7 37.93	+29 56.1	1.948	2.887	7.2	21.7
2 11	7 29.40	+29 57.1	2.030	2.909	10.6	21.9
2 21	7 23.44	+29 47.4	2.136	2.930	13.5	22.2

201525 2003 QY_{12} 1 17.3 180°.19 0°.1/17.4 18

12 13	8 22.46	+18 12.6	1.930	2.732	14.3	20.8
12 23	8 16.96	+18 43.6	1.847	2.734	10.9	20.6
1 2	8 8.96	+19 23.5	1.788	2.734	6.9	20.4
1 12	7 59.18	+20 8.5	1.756	2.735	2.5	20.1
1 22	7 48.63	+20 53.9	1.754	2.734	2.1	20.1
2 1	7 38.54	+21 35.5	1.781	2.733	6.6	20.3
2 11	7 30.05	+22 10.4	1.837	2.732	10.6	20.6
2 21	7 23.97	+22 37.4	1.916	2.730	14.1	20.8

97528 2000 DW_{25} 1 17.3 191°.75 2°.9/16.1 18

12 13	8 22.16	+29 17.1	2.368	3.173	11.9	19.7
12 23	8 16.38	+29 38.0	2.285	3.173	9.0	19.5
1 2	8 8.40	+29 57.4	2.228	3.172	5.9	19.3
1 12	7 58.93	+30 11.1	2.199	3.171	3.2	19.1
1 22	7 48.90	+30 15.6	2.199	3.169	3.6	19.2
2 1	7 39.35	+30 9.3	2.230	3.168	6.5	19.3
2 11	7 31.29	+29 52.5	2.289	3.166	9.6	19.5
2 21	7 25.37	+29 26.8	2.372	3.164	12.4	19.7

522151 2016 AF_{251} 1 17.3 199°.17 1°.6/18.3 17

12 13	8 19.96	+13 2.3	2.235	3.020	13.1	22.6
12 23	8 14.78	+13 33.9	2.143	3.017	10.2	22.4
1 2	8 7.47	+14 17.5	2.075	3.013	6.7	22.2
1 12	7 58.64	+15 10.6	2.035	3.009	3.1	21.9
1 22	7 49.12	+16 9.5	2.025	3.004	2.3	21.9
2 1	7 39.89	+17 9.8	2.046	2.999	5.8	22.1
2 11	7 31.93	+18 7.6	2.096	2.993	9.4	22.3
2 21	7 25.95	+19 0.0	2.171	2.986	12.6	22.5

476589 2008 SU_{11} 1 17.3 157°.38 17°.1/25.3 18

12 13	8 22.97	−15 15.3	1.344	2.032	24.6	21.4
12 23	8 18.18	−16 52.7	1.279	2.036	22.4	21.3
1 2	8 10.14	−17 52.7	1.228	2.041	20.2	21.1
1 12	7 59.70	−18 5.6	1.194	2.044	18.2	21.0
1 22	7 48.19	−17 26.3	1.179	2.047	17.2	20.9
2 1	7 37.27	−15 56.7	1.185	2.050	17.4	20.9
2 11	7 28.52	−13 46.7	1.211	2.052	18.8	21.0
2 21	7 22.95	−11 11.0	1.255	2.053	20.9	21.2

149710 2004 JG_{8} 1 17.3 243°.35 4°.7/19.9 17

12 13	8 15.73	+ 4 37.5	2.638	3.391	12.2	20.5
12 23	8 11.24	+ 4 15.9	2.542	3.383	10.0	20.3
1 2	8 5.08	+ 4 6.7	2.469	3.376	7.5	20.1
1 12	7 57.76	+ 4 10.8	2.423	3.369	5.4	20.0
1 22	7 49.93	+ 4 27.5	2.406	3.361	4.8	19.9
2 1	7 42.34	+ 4 55.2	2.418	3.354	6.2	20.0
2 11	7 35.74	+ 5 31.2	2.459	3.346	8.7	20.2
2 21	7 30.70	+ 6 12.1	2.525	3.338	11.1	20.3

432181 2009 CY_{52} 1 17.3 4°.94 3°.6/19.6 18

12 13	8 15.18	+ 7 22.4	2.185	2.961	13.7	21.1
12 23	8 11.15	+ 7 42.2	2.099	2.961	10.9	20.9
1 2	8 5.17	+ 8 17.6	2.036	2.962	7.7	20.8
1 12	7 57.83	+ 9 7.6	1.999	2.962	4.7	20.6
1 22	7 49.90	+10 9.3	1.992	2.963	3.7	20.5
2 1	7 42.30	+11 18.4	2.014	2.964	6.1	20.7
2 11	7 35.91	+12 30.1	2.064	2.966	9.3	20.9
2 21	7 31.38	+13 40.0	2.139	2.967	12.3	21.1

410037 2006 YY_8 1 17.3 314°.68 1°.9/16.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 21.89	+21 0.6	1.330	2.161	17.9	21.0
12 23	8 17.68	+22 1.4	1.256	2.158	13.6	20.8
1 2	8 10.01	+23 14.4	1.202	2.156	8.6	20.5
1 12	7 59.72	+24 32.0	1.174	2.153	3.3	20.1
1 22	7 48.23	+25 45.2	1.172	2.150	3.8	20.2
2 1	7 37.35	+26 45.9	1.196	2.148	9.1	20.5
2 11	7 28.78	+27 30.1	1.245	2.145	14.2	20.7
2 21	7 23.62	+27 57.5	1.314	2.143	18.5	21.0

232747 2004 JK_{11} 1 17.3 184°.04 1°.5/16.3 17

12 13	8 17.48	+24 6.1	2.859	3.661	10.1	20.9
12 23	8 12.55	+24 47.9	2.773	3.661	7.6	20.7
1 2	8 5.90	+25 32.4	2.713	3.660	4.8	20.5
1 12	7 58.07	+26 16.3	2.683	3.660	2.1	20.3
1 22	7 49.72	+26 56.1	2.684	3.659	2.4	20.3
2 1	7 41.66	+27 29.1	2.715	3.658	5.2	20.5
2 11	7 34.65	+27 53.8	2.776	3.657	8.0	20.7
2 21	7 29.26	+28 10.1	2.862	3.655	10.5	20.9

30864 1992 EE_6 1 17.3 348°.23 1°.1/17.8 18

12 13	8 19.81	+15 11.9	1.402	2.222	17.7	18.4
12 23	8 15.78	+15 47.1	1.325	2.220	13.7	18.1
1 2	8 8.63	+16 38.6	1.270	2.219	8.8	17.8
1 12	7 59.19	+17 42.2	1.239	2.217	3.5	17.5
1 22	7 48.72	+18 51.4	1.235	2.216	2.6	17.5
2 1	7 38.81	+19 59.0	1.258	2.216	8.0	17.8
2 11	7 30.95	+20 59.2	1.306	2.215	13.0	18.1
2 21	7 26.14	+21 48.9	1.376	2.215	17.2	18.3

469089 2015 BZ_{419} 1 17.3 204°.98 3°.0/19.5 17

12 13	8 16.11	+ 7 34.2	2.724	3.486	11.6	21.7
12 23	8 11.50	+ 7 57.8	2.628	3.483	9.2	21.5
1 2	8 5.25	+ 8 34.2	2.556	3.479	6.5	21.3
1 12	7 57.84	+ 9 22.3	2.513	3.475	3.9	21.2
1 22	7 49.92	+10 19.7	2.500	3.471	3.1	21.1
2 1	7 42.23	+11 23.1	2.518	3.466	5.2	21.2
2 11	7 35.49	+12 28.7	2.566	3.461	8.0	21.4
2 21	7 30.29	+13 33.2	2.641	3.456	10.6	21.6

222074 1999 JO_{28} 1 17.3 234°.08 5°.2/14.6 18

12 13	8 23.98	+33 54.5	2.196	3.002	12.6	20.5
12 23	8 18.28	+34 56.3	2.109	2.992	9.9	20.3
1 2	8 9.92	+35 55.6	2.047	2.981	7.1	20.2
1 12	7 59.60	+36 45.4	2.013	2.970	5.3	20.0
1 22	7 48.38	+37 19.8	2.009	2.959	6.0	20.0
2 1	7 37.57	+37 35.3	2.032	2.948	8.5	20.2
2 11	7 28.42	+37 32.0	2.082	2.935	11.5	20.3
2 21	7 21.80	+37 12.9	2.155	2.923	14.3	20.5

350652 2001 TJ_{214} 1 17.3 89°.24 0°.5/17.2 15

12 13	8 28.79	+21 55.0	1.529	2.341	16.9	21.7
12 23	8 21.90	+21 55.7	1.474	2.365	12.8	21.5
1 2	8 12.02	+22 0.8	1.441	2.390	8.0	21.2
1 12	8 0.23	+22 6.1	1.435	2.414	2.8	21.0
1 22	7 47.98	+22 7.8	1.457	2.437	2.6	21.0
2 1	7 36.80	+22 4.1	1.508	2.460	7.5	21.4
2 11	7 27.98	+21 54.7	1.585	2.483	11.8	21.7
2 21	7 22.21	+21 40.6	1.685	2.505	15.5	22.0

96632 1999 GE_1 1 17.3 205°.11 5°.7/14.5 18

12 13	8 26.54	+37 23.6	2.402	3.196	12.0	19.5
12 23	8 19.98	+38 15.1	2.320	3.191	9.6	19.3
1 2	8 10.84	+39 0.6	2.262	3.186	7.2	19.1
1 12	7 59.88	+39 33.8	2.233	3.180	5.7	19.0
1 22	7 48.18	+39 49.6	2.233	3.173	6.3	19.0
2 1	7 36.98	+39 45.8	2.262	3.166	8.4	19.2
2 11	7 27.48	+39 23.6	2.318	3.158	11.0	19.3
2 21	7 20.48	+38 46.6	2.397	3.149	13.4	19.5

64344 2001 UP_{76} 1 17.3 340°.50 1°.3/17.8 18

12 13	8 17.27	+16 25.9	1.501	2.324	16.6	19.0
12 23	8 13.70	+16 35.8	1.419	2.315	12.8	18.7
1 2	8 7.25	+16 57.8	1.358	2.307	8.3	18.5
1 12	7 58.69	+17 29.2	1.322	2.300	3.4	18.1
1 22	7 49.18	+18 5.8	1.312	2.293	2.6	18.1
2 1	7 40.16	+18 42.9	1.329	2.287	7.6	18.4
2 11	7 33.01	+19 16.7	1.372	2.282	12.3	18.6
2 21	7 28.66	+19 44.6	1.436	2.278	16.5	18.9

462766 2010 EP_{36} 1 17.3 217°.11 9°.3/23.8 18

12 13	8 15.29	−12 51.3	2.734	3.381	14.0	21.2
12 23	8 10.91	−13 31.4	2.644	3.377	12.6	21.1
1 2	8 4.89	−13 51.1	2.572	3.372	11.1	21.0
1 12	7 57.72	−13 47.1	2.524	3.367	9.9	20.9
1 22	7 50.06	−13 18.5	2.499	3.363	9.3	20.8
2 1	7 42.62	−12 26.4	2.501	3.357	9.6	20.9
2 11	7 36.15	−11 14.7	2.528	3.352	10.7	20.9
2 21	7 31.21	− 9 48.6	2.579	3.346	12.2	21.0

455242 2001 SV_{223} 1 17.3 70°.32 7°.3/14.8 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 28.49	+38 4.1	1.711	2.521	15.5	21.2
12 23	8 22.00	+39 4.9	1.661	2.541	12.3	21.1
1 2	8 12.25	+39 56.2	1.634	2.561	9.3	20.9
1 12	8 0.35	+40 29.3	1.633	2.580	7.4	20.9
1 22	7 47.87	+40 38.5	1.659	2.600	8.0	20.9
2 1	7 36.51	+40 22.3	1.711	2.620	10.4	21.1
2 11	7 27.66	+39 44.5	1.789	2.639	13.2	21.3
2 21	7 22.09	+38 51.1	1.887	2.658	15.9	21.6

131923 2002 CR_1 1 17.4 273°.27 1°.8/16.7 18

12 13	8 22.96	+23 19.6	1.644	2.463	15.6	20.3
12 23	8 18.08	+23 49.5	1.549	2.445	12.0	20.0
1 2	8 10.11	+24 25.4	1.477	2.428	7.6	19.7
1 12	7 59.75	+25 2.1	1.431	2.409	3.0	19.4
1 22	7 48.22	+25 33.7	1.413	2.391	3.3	19.4
2 1	7 37.06	+25 55.6	1.423	2.373	8.2	19.6
2 11	7 27.78	+26 5.9	1.458	2.354	12.8	19.8
2 21	7 21.46	+26 5.1	1.516	2.335	16.9	20.0

451675 2013 AZ_{106} 1 17.4 329°.03 1°.1/17.6 18

12 13	8 23.26	+18 45.4	1.439	2.259	17.4	21.4
12 23	8 18.28	+18 31.4	1.361	2.256	13.4	21.1
1 2	8 10.13	+18 25.0	1.305	2.254	8.6	20.8
1 12	7 59.70	+18 23.9	1.273	2.252	3.3	20.5
1 22	7 48.35	+18 25.1	1.269	2.250	2.7	20.5
2 1	7 37.67	+18 25.9	1.291	2.248	8.0	20.8
2 11	7 29.17	+18 24.9	1.339	2.246	12.9	21.0
2 21	7 23.77	+18 21.3	1.408	2.245	17.1	21.3

281376 2008 JJ_{39} 1 17.4 204°.55 0°.8/17.7 18

12 13	8 24.07	+16 48.0	1.753	2.555	15.5	22.3
12 23	8 18.50	+17 11.7	1.665	2.550	11.9	22.1
1 2	8 10.13	+17 46.3	1.600	2.546	7.7	21.8
1 12	7 59.70	+18 28.4	1.562	2.540	2.9	21.5
1 22	7 48.33	+19 13.2	1.553	2.533	2.3	21.4
2 1	7 37.39	+19 56.1	1.573	2.526	7.1	21.7
2 11	7 28.19	+20 33.6	1.620	2.518	11.6	22.0
2 21	7 21.68	+21 3.8	1.691	2.510	15.4	22.2

193767 2001 ME_{13} 1 17.4 203°.36 1°.2/17.9 18

12 13	8 23.37	+15 3.7	1.939	2.731	14.6	21.0
12 23	8 17.73	+15 33.5	1.847	2.726	11.3	20.8
1 2	8 9.54	+16 15.2	1.778	2.721	7.3	20.6
1 12	7 59.48	+17 5.8	1.738	2.714	3.0	20.3
1 22	7 48.53	+18 0.7	1.727	2.707	2.2	20.2
2 1	7 37.93	+18 55.1	1.746	2.699	6.6	20.5
2 11	7 28.87	+19 45.0	1.793	2.690	10.8	20.7
2 21	7 22.21	+20 28.0	1.865	2.680	14.4	20.9

58295 1994 JJ_9 1 17.4 273°.01 3°.1/18.8 18

12 13	8 18.46	+10 36.8	2.095	2.879	13.9	19.8
12 23	8 13.93	+10 42.9	1.988	2.858	11.0	19.6
1 2	8 7.14	+11 2.3	1.903	2.836	7.7	19.3
1 12	7 58.63	+11 34.3	1.845	2.814	4.2	19.1
1 22	7 49.25	+12 16.7	1.816	2.791	3.4	19.0
2 1	7 40.04	+13 5.9	1.817	2.769	6.5	19.1
2 11	7 32.06	+13 58.0	1.845	2.746	10.3	19.3
2 21	7 26.15	+14 49.2	1.898	2.722	13.8	19.5

45538 2000 CG_{29} 1 17.4 99°.82 3°.2/19.3 18

12 13	8 17.51	+ 8 47.1	2.266	3.041	13.3	19.4
12 23	8 12.74	+ 9 1.2	2.190	3.053	10.5	19.2
1 2	8 6.09	+ 9 28.6	2.137	3.065	7.3	19.0
1 12	7 58.16	+10 8.2	2.112	3.077	4.3	18.8
1 22	7 49.75	+10 57.2	2.117	3.089	3.4	18.8
2 1	7 41.75	+11 51.8	2.151	3.101	5.8	19.0
2 11	7 35.00	+12 48.2	2.214	3.112	8.9	19.2
2 21	7 30.09	+13 42.8	2.302	3.124	11.8	19.4

187452 2005 WN_{179} 1 17.4 100°.96 1°.7/18.2 18

12 13	8 19.79	+14 7.0	1.995	2.790	14.1	20.6
12 23	8 14.72	+14 23.3	1.922	2.802	10.9	20.4
1 2	8 7.44	+14 50.5	1.873	2.814	7.1	20.2
1 12	7 58.66	+15 26.1	1.851	2.826	3.2	20.0
1 22	7 49.33	+16 6.7	1.859	2.838	2.4	20.0
2 1	7 40.52	+16 48.5	1.896	2.850	6.1	20.2
2 11	7 33.20	+17 28.3	1.960	2.861	9.8	20.5
2 21	7 28.06	+18 3.6	2.050	2.872	13.0	20.7

418901 2009 BX_{22} 1 17.4 352°.08 2°.1/18.9 18

12 13	8 16.60	+ 9 28.8	2.194	2.975	13.5	20.5
12 23	8 12.31	+10 28.7	2.104	2.974	10.5	20.2
1 2	8 5.98	+11 45.2	2.038	2.973	7.1	20.0
1 12	7 58.18	+13 15.6	2.000	2.972	3.5	19.8
1 22	7 49.70	+14 54.6	1.992	2.971	2.5	19.7
2 1	7 41.50	+16 36.1	2.016	2.970	5.8	19.9
2 11	7 34.49	+18 14.2	2.069	2.970	9.3	20.2
2 21	7 29.41	+19 44.3	2.148	2.969	12.5	20.4

31316 1998 GZ_7 1 17.4 300°.77 2°.1/18.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 16.07	+10 10.1	2.384	3.164	12.6	18.4
12 23	8 11.75	+10 54.5	2.291	3.160	9.8	18.2
1 2	8 5.55	+11 52.8	2.223	3.157	6.6	18.0
1 12	7 58.01	+13 2.9	2.183	3.154	3.4	17.8
1 22	7 49.86	+14 20.9	2.174	3.151	2.5	17.7
2 1	7 41.96	+15 42.0	2.195	3.148	5.4	17.9
2 11	7 35.17	+17 1.5	2.246	3.146	8.7	18.1
2 21	7 30.13	+18 15.7	2.323	3.143	11.7	18.3

180558 2004 EF_{47} 1 17.4 66°.34 0°.9/17.7 18

12 13	8 22.36	+16 38.5	1.593	2.404	16.4	20.7
12 23	8 17.00	+16 59.1	1.538	2.428	12.4	20.5
1 2	8 8.97	+17 30.3	1.504	2.452	7.9	20.3
1 12	7 59.21	+18 8.2	1.497	2.476	3.0	20.1
1 22	7 48.92	+18 48.2	1.519	2.499	2.3	20.1
2 1	7 39.47	+19 25.7	1.568	2.523	6.9	20.4
2 11	7 32.00	+19 57.9	1.644	2.547	11.1	20.7
2 21	7 27.21	+20 23.2	1.743	2.571	14.7	21.0

402564 2006 QA_{123} 1 17.4 68°.28 2°.1/16.5 16

12 13	8 25.25	+23 50.4	1.585	2.403	16.1	21.5
12 23	8 19.24	+24 33.3	1.536	2.432	12.1	21.3
1 2	8 10.38	+25 19.9	1.511	2.461	7.5	21.1
1 12	7 59.69	+26 3.7	1.512	2.490	3.1	20.9
1 22	7 48.53	+26 39.1	1.542	2.519	3.4	21.0
2 1	7 38.36	+27 2.6	1.600	2.548	7.7	21.3
2 11	7 30.39	+27 13.6	1.684	2.576	11.6	21.6
2 21	7 25.31	+27 13.6	1.791	2.604	15.0	21.9

397479 2007 QC_2 1 17.4 102°.12 0°.1/17.4 17

12 13	8 24.24	+18 17.9	1.711	2.518	15.6	21.3
12 23	8 18.37	+18 49.8	1.649	2.538	11.8	21.1
1 2	8 9.84	+19 30.7	1.610	2.557	7.4	20.9
1 12	7 59.53	+20 15.9	1.598	2.577	2.6	20.7
1 22	7 48.64	+21 0.5	1.615	2.595	2.2	20.7
2 1	7 38.49	+21 40.0	1.661	2.614	6.9	21.0
2 11	7 30.25	+22 11.7	1.734	2.631	11.0	21.3
2 21	7 24.68	+22 35.0	1.830	2.649	14.5	21.5

443862 2001 SX_{207} 1 17.4 82°.06 5°.0/15.8 18

12 13	8 28.10	+30 32.1	1.424	2.249	17.3	21.3
12 23	8 22.05	+31 18.3	1.367	2.263	13.3	21.1
1 2	8 12.48	+32 2.0	1.332	2.277	8.9	20.9
1 12	8 0.51	+32 34.7	1.322	2.292	5.4	20.7
1 22	7 47.81	+32 49.6	1.339	2.306	6.0	20.8
2 1	7 36.22	+32 44.1	1.383	2.320	9.7	21.1
2 11	7 27.28	+32 20.4	1.451	2.334	13.8	21.3
2 21	7 21.86	+31 43.3	1.540	2.348	17.3	21.6

25765 Heatherlynne 1 17.4 232°.23 0°.3/17.5 18

12 13	8 18.59	+18 30.9	2.382	3.181	12.0	19.6
12 23	8 13.69	+18 48.7	2.289	3.174	9.2	19.4
1 2	8 6.78	+19 12.9	2.220	3.166	5.8	19.2
1 12	7 58.47	+19 41.1	2.180	3.159	2.1	18.9
1 22	7 49.53	+20 10.2	2.170	3.151	1.8	18.9
2 1	7 40.89	+20 37.4	2.190	3.143	5.5	19.1
2 11	7 33.47	+21 0.6	2.239	3.134	9.0	19.3
2 21	7 27.93	+21 18.7	2.313	3.126	12.0	19.5

357952 2005 YT_{179} 1 17.4 5°.99 1°.1/17.1 18

12 13	8 24.14	+23 16.6	1.336	2.166	17.9	21.3
12 23	8 19.21	+23 16.0	1.264	2.166	13.7	21.1
1 2	8 10.83	+23 19.3	1.214	2.166	8.6	20.8
1 12	8 0.00	+23 22.0	1.187	2.167	3.2	20.5
1 22	7 48.23	+23 19.8	1.188	2.168	3.1	20.5
2 1	7 37.31	+23 10.1	1.214	2.169	8.5	20.8
2 11	7 28.83	+22 52.8	1.265	2.171	13.6	21.1
2 21	7 23.75	+22 29.6	1.337	2.173	17.8	21.3

325134 2008 EQ_{143} 1 17.4 239°.37 1°.6/18.3 18

12 13	8 19.12	+12 25.1	1.935	2.729	14.6	20.8
12 23	8 14.53	+13 12.1	1.844	2.723	11.3	20.6
1 2	8 7.55	+14 14.7	1.776	2.717	7.5	20.4
1 12	7 58.80	+15 29.8	1.736	2.711	3.3	20.1
1 22	7 49.21	+16 52.1	1.725	2.705	2.4	20.0
2 1	7 39.91	+18 15.6	1.744	2.699	6.4	20.3
2 11	7 32.04	+19 34.5	1.791	2.692	10.5	20.5
2 21	7 26.43	+20 45.2	1.863	2.685	14.1	20.7

518894 2010 FF_{36} 1 17.4 267°.01 7°.0/13.5 17

12 13	8 26.13	+43 45.6	2.612	3.393	11.5	21.1
12 23	8 19.74	+44 34.4	2.525	3.378	9.6	21.0
1 2	8 10.74	+45 13.8	2.463	3.363	7.9	20.8
1 12	7 59.90	+45 37.4	2.427	3.347	7.0	20.8
1 22	7 48.29	+45 40.4	2.420	3.331	7.5	20.8
2 1	7 37.21	+45 21.1	2.440	3.315	9.1	20.9
2 11	7 27.84	+44 41.3	2.487	3.299	11.2	21.0
2 21	7 20.99	+43 45.3	2.555	3.283	13.3	21.1

110909 2001 UZ_{123} 1 17.4 107°.90 3°.1/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 23.55	+26 23.3	2.060	2.869	13.3	20.1
12 23	8 17.67	+27 30.9	1.998	2.888	10.0	20.0
1 2	8 9.34	+28 40.6	1.961	2.907	6.4	19.8
1 12	7 59.37	+29 45.9	1.952	2.925	3.4	19.6
1 22	7 48.79	+30 40.9	1.973	2.943	4.0	19.7
2 1	7 38.80	+31 21.8	2.025	2.960	7.2	19.9
2 11	7 30.51	+31 47.5	2.103	2.977	10.5	20.2
2 21	7 24.63	+31 59.4	2.205	2.993	13.3	20.4

465743 2009 VT_{84} 1 17.4 51°.24 5°.1/14.7 18

12 13	8 21.63	+30 55.6	1.789	2.611	14.4	20.9
12 23	8 16.72	+32 15.2	1.730	2.623	11.1	20.7
1 2	8 8.98	+33 33.8	1.694	2.636	7.6	20.5
1 12	7 59.28	+34 43.2	1.686	2.650	5.3	20.4
1 22	7 48.85	+35 36.3	1.705	2.663	6.1	20.5
2 1	7 39.09	+36 9.0	1.752	2.677	9.0	20.7
2 11	7 31.30	+36 21.5	1.825	2.691	12.2	20.9
2 21	7 26.29	+36 16.5	1.919	2.705	15.1	21.1

406005 2006 SP_{366} 1 17.4 212°.06 1°.0/17.8 18

12 13	8 20.27	+16 22.2	1.770	2.577	15.2	21.2
12 23	8 15.52	+16 40.5	1.688	2.576	11.6	21.0
1 2	8 8.19	+17 9.6	1.629	2.576	7.5	20.8
1 12	7 59.01	+17 46.3	1.597	2.575	3.0	20.5
1 22	7 49.06	+18 26.7	1.593	2.574	2.3	20.4
2 1	7 39.57	+19 6.3	1.618	2.573	6.8	20.7
2 11	7 31.76	+19 41.9	1.669	2.572	11.0	21.0
2 21	7 26.45	+20 11.3	1.744	2.571	14.7	21.2

189768 2002 CF_{40} 1 17.4 148°.36 1°.9/17.5 18

12 13	8 37.04	+21 50.0	1.141	1.959	21.1	19.7
12 23	8 29.32	+20 31.7	1.069	1.963	16.3	19.4
1 2	8 17.31	+19 12.1	1.018	1.967	10.5	19.1
1 12	8 2.30	+17 50.6	0.992	1.970	4.2	18.7
1 22	7 46.31	+16 29.1	0.993	1.973	3.6	18.7
2 1	7 31.67	+15 11.4	1.021	1.976	9.9	19.1
2 11	7 20.30	+14 1.4	1.074	1.978	15.6	19.4
2 21	7 13.19	+13 1.5	1.148	1.980	20.4	19.7

256362 2006 XE_{64} 1 17.4 36°.04 9°.9/22.3 17

12 13	8 17.11	− 2 33.9	1.391	2.155	20.7	20.1
12 23	8 13.32	− 3 17.3	1.336	2.173	17.5	19.9
1 2	8 6.82	− 3 31.2	1.299	2.191	14.1	19.8
1 12	7 58.49	− 3 12.5	1.283	2.210	11.2	19.7
1 22	7 49.57	− 2 22.3	1.291	2.230	9.9	19.6
2 1	7 41.38	− 1 5.8	1.323	2.251	11.0	19.8
2 11	7 35.13	+ 0 27.9	1.379	2.272	13.6	20.0
2 21	7 31.56	+ 2 8.7	1.456	2.294	16.5	20.2

187658 2007 EV_{161} 1 17.4 122°.29 4°.0/19.4 18

12 13	8 18.38	+ 7 59.7	1.978	2.757	14.8	20.5
12 23	8 13.73	+ 8 3.1	1.897	2.761	11.8	20.3
1 2	8 6.89	+ 8 22.1	1.838	2.765	8.4	20.1
1 12	7 58.51	+ 8 55.9	1.806	2.769	5.1	19.9
1 22	7 49.51	+ 9 42.1	1.802	2.773	4.1	19.9
2 1	7 40.92	+10 36.7	1.827	2.777	6.7	20.0
2 11	7 33.75	+11 35.0	1.880	2.780	10.1	20.2
2 21	7 28.70	+12 32.8	1.957	2.784	13.3	20.5

318715 2005 QE_{177} 1 17.4 129°.92 4°.0/19.6 18

12 13	8 18.56	+ 6 54.1	1.964	2.739	15.0	20.8
12 23	8 13.90	+ 7 12.2	1.882	2.744	12.0	20.6
1 2	8 7.01	+ 7 47.6	1.823	2.748	8.5	20.4
1 12	7 58.56	+ 8 39.5	1.790	2.753	5.2	20.2
1 22	7 49.47	+ 9 44.5	1.786	2.757	4.1	20.1
2 1	7 40.77	+10 57.7	1.812	2.761	6.7	20.3
2 11	7 33.50	+12 13.5	1.865	2.765	10.2	20.5
2 21	7 28.36	+13 27.0	1.943	2.769	13.4	20.7

518859 2010 DT_{62} 1 17.4 331°.70 4°.9/19.6 18

12 13	8 15.40	+ 6 35.1	2.069	2.845	14.3	20.9
12 23	8 11.48	+ 6 13.3	1.978	2.837	11.6	20.7
1 2	8 5.49	+ 6 6.0	1.909	2.829	8.6	20.5
1 12	7 58.03	+ 6 13.9	1.866	2.821	5.8	20.3
1 22	7 49.92	+ 6 36.2	1.850	2.814	5.0	20.2
2 1	7 42.12	+ 7 10.5	1.863	2.807	7.1	20.3
2 11	7 35.58	+ 7 53.1	1.902	2.800	10.2	20.5
2 21	7 31.00	+ 8 39.8	1.966	2.794	13.2	20.7

149434 2003 BM_{70} 1 17.4 184°.45 2°.6/16.3 18

12 13	8 24.26	+27 50.3	2.134	2.940	13.0	20.3
12 23	8 18.20	+28 9.6	2.052	2.941	9.9	20.1
1 2	8 9.69	+28 28.4	1.995	2.940	6.4	19.9
1 12	7 59.51	+28 42.1	1.966	2.940	3.2	19.7
1 22	7 48.68	+28 47.0	1.966	2.939	3.5	19.7
2 1	7 38.40	+28 41.1	1.996	2.938	6.9	20.0
2 11	7 29.78	+28 24.7	2.054	2.936	10.3	20.2
2 21	7 23.54	+27 59.6	2.136	2.934	13.4	20.4

95429 2002 CV_{238} 1 17.4 70°.51 0°.9/17.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 21.90	+22 52.6	1.884	2.697	14.2	19.8
12 23	8 16.52	+23 1.7	1.812	2.705	10.7	19.6
1 2	8 8.67	+23 14.0	1.764	2.713	6.7	19.4
1 12	7 59.14	+23 26.1	1.742	2.721	2.4	19.1
1 22	7 49.04	+23 34.5	1.750	2.730	2.4	19.2
2 1	7 39.56	+23 37.0	1.787	2.738	6.6	19.4
2 11	7 31.83	+23 32.9	1.851	2.747	10.5	19.7
2 21	7 26.55	+23 22.7	1.938	2.755	13.8	19.9

217424 2005 QO_{178} 1 17.4 203°.07 1°.0/17.9 18

12 13	8 19.87	+15 48.6	2.052	2.850	13.7	21.0
12 23	8 14.91	+16 11.0	1.965	2.848	10.5	20.8
1 2	8 7.68	+16 43.3	1.901	2.845	6.8	20.6
1 12	7 58.83	+17 23.0	1.865	2.842	2.8	20.3
1 22	7 49.27	+18 6.2	1.858	2.839	2.1	20.3
2 1	7 40.08	+18 49.2	1.882	2.836	6.1	20.5
2 11	7 32.30	+19 28.6	1.933	2.832	10.0	20.7
2 21	7 26.70	+20 2.5	2.008	2.828	13.3	20.9

359800 2011 UM_{238} 1 17.4 192°.67 5°.2/15.2 18

12 13	8 25.16	+31 7.5	1.681	2.501	15.3	21.3
12 23	8 19.71	+32 10.3	1.608	2.500	11.8	21.0
1 2	8 11.07	+33 12.3	1.557	2.500	8.2	20.8
1 12	8 0.11	+34 5.1	1.533	2.499	5.4	20.7
1 22	7 48.18	+34 41.2	1.537	2.498	6.2	20.7
2 1	7 36.91	+34 56.7	1.568	2.497	9.5	20.9
2 11	7 27.81	+34 51.9	1.624	2.495	13.2	21.1
2 21	7 21.83	+34 30.4	1.701	2.494	16.5	21.3

458247 2010 TE_{58} 1 17.4 11°.56 7°.9/15.2 16

12 13	8 18.76	+34 27.6	1.065	1.921	19.6	20.1
12 23	8 16.05	+35 26.0	1.017	1.926	15.4	19.9
1 2	8 9.19	+36 17.0	0.988	1.934	11.1	19.7
1 12	7 59.46	+36 49.5	0.981	1.944	8.1	19.6
1 22	7 48.83	+36 55.2	0.996	1.956	8.9	19.6
2 1	7 39.52	+36 31.9	1.034	1.970	12.4	19.9
2 11	7 33.31	+35 43.9	1.093	1.986	16.4	20.2
2 21	7 31.04	+34 38.7	1.171	2.003	20.1	20.5

252245 2001 QJ_{62} 1 17.4 108°.01 0°.0/17.4 18

12 13	8 14.84	+20 14.1	3.659	4.449	8.3	21.4
12 23	8 10.10	+20 24.7	3.585	4.466	6.3	21.3
1 2	8 4.17	+20 38.0	3.537	4.482	3.9	21.2
1 12	7 57.47	+20 52.4	3.520	4.499	1.4	21.0
1 22	7 50.52	+21 6.3	3.534	4.515	1.2	21.0
2 1	7 43.85	+21 18.5	3.581	4.531	3.7	21.2
2 11	7 37.99	+21 27.9	3.657	4.547	6.0	21.4
2 21	7 33.33	+21 34.1	3.759	4.562	8.0	21.5

410075 2007 CB_{60} 1 17.4 20°.96 1°.6/17.0 18

12 13	8 22.39	+25 9.2	1.347	2.181	17.5	19.6
12 23	8 17.68	+24 59.1	1.286	2.189	13.3	19.3
1 2	8 9.70	+24 50.1	1.246	2.199	8.4	19.1
1 12	7 59.56	+24 38.0	1.231	2.210	3.2	18.8
1 22	7 48.76	+24 19.5	1.242	2.222	3.2	18.8
2 1	7 38.97	+23 53.6	1.279	2.234	8.2	19.2
2 11	7 31.60	+23 21.3	1.341	2.248	12.9	19.5
2 21	7 27.43	+22 44.7	1.425	2.262	16.8	19.7

313900 2004 ND_3 1 17.4 258°.96 1°.0/16.8 18

12 13	8 20.94	+20 11.3	2.199	3.000	12.8	20.8
12 23	8 15.90	+21 4.8	2.091	2.978	9.8	20.5
1 2	8 8.46	+22 7.4	2.008	2.956	6.2	20.2
1 12	7 59.19	+23 14.6	1.954	2.933	2.3	19.9
1 22	7 48.93	+24 21.1	1.930	2.909	2.4	19.9
2 1	7 38.78	+25 21.7	1.937	2.885	6.5	20.1
2 11	7 29.89	+26 12.7	1.973	2.860	10.4	20.3
2 21	7 23.15	+26 52.8	2.032	2.835	13.8	20.5

432127 2009 BY_{45} 1 17.4 236°.44 1°.1/16.8 17

12 13	8 19.71	+24 38.2	2.836	3.634	10.3	21.4
12 23	8 14.26	+24 45.5	2.738	3.623	7.8	21.2
1 2	8 7.02	+24 53.6	2.666	3.612	4.9	21.0
1 12	7 58.55	+25 0.2	2.623	3.600	2.0	20.8
1 22	7 49.56	+25 2.9	2.611	3.589	2.1	20.8
2 1	7 40.87	+25 0.2	2.630	3.577	5.1	21.0
2 11	7 33.28	+24 51.7	2.679	3.564	8.1	21.2
2 21	7 27.37	+24 37.8	2.753	3.552	10.7	21.3

41478 2000 PR_{28} 1 17.4 140°.96 2°.9/16.0 18

12 13	8 24.86	+25 25.5	1.803	2.616	14.7	18.3
12 23	8 19.05	+26 22.6	1.732	2.625	11.1	18.1
1 2	8 10.44	+27 23.5	1.685	2.633	7.1	17.9
1 12	7 59.84	+28 21.3	1.666	2.641	3.5	17.7
1 22	7 48.47	+29 9.5	1.676	2.649	4.0	17.7
2 1	7 37.72	+29 43.9	1.715	2.656	7.8	17.9
2 11	7 28.87	+30 3.2	1.780	2.663	11.7	18.2
2 21	7 22.79	+30 8.8	1.869	2.669	15.0	18.4

355288 2007 RG_{141} 1 17.4 111°.40 1°.2/17.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 24.06	+16 8.8	1.823	2.621	15.2	21.6
12 23	8 18.07	+16 20.0	1.757	2.640	11.6	21.4
1 2	8 9.60	+16 40.6	1.714	2.658	7.4	21.2
1 12	7 59.48	+17 7.8	1.699	2.676	3.0	21.0
1 22	7 48.82	+17 37.9	1.713	2.693	2.3	21.0
2 1	7 38.84	+18 7.4	1.756	2.710	6.5	21.3
2 11	7 30.65	+18 33.7	1.827	2.726	10.5	21.6
2 21	7 24.93	+18 55.3	1.922	2.741	13.8	21.8

26405 1999 XS_{15} 1 17.4 121°.03 1°.1/16.7 18

12 13	8 19.09	+20 35.0	2.200	3.005	12.6	17.6
12 23	8 14.23	+21 32.8	2.121	3.011	9.5	17.5
1 2	8 7.21	+22 37.8	2.068	3.016	5.9	17.2
1 12	7 58.66	+23 45.2	2.043	3.022	2.2	17.0
1 22	7 49.48	+24 49.7	2.048	3.027	2.4	17.0
2 1	7 40.67	+25 47.0	2.084	3.032	6.1	17.3
2 11	7 33.23	+26 34.0	2.148	3.037	9.6	17.5
2 21	7 27.85	+27 10.0	2.237	3.042	12.6	17.7

136820 1997 MF_9 1 17.4 295°.60 0°.2/17.5 18

12 13	8 21.68	+19 56.2	1.705	2.519	15.3	20.0
12 23	8 16.75	+19 55.1	1.620	2.513	11.7	19.8
1 2	8 9.06	+20 0.2	1.558	2.507	7.5	19.5
1 12	7 59.38	+20 8.6	1.521	2.500	2.7	19.2
1 22	7 48.85	+20 17.2	1.513	2.494	2.3	19.1
2 1	7 38.84	+20 23.2	1.533	2.488	7.1	19.4
2 11	7 30.63	+20 25.0	1.579	2.482	11.6	19.7
2 21	7 25.10	+20 22.4	1.649	2.476	15.4	19.9

289550 2005 EC_{232} 1 17.4 183°.09 1°.0/16.9 18

12 13	8 23.27	+21 59.0	2.113	2.915	13.2	22.3
12 23	8 17.46	+22 26.2	2.028	2.916	10.0	22.1
1 2	8 9.28	+22 58.2	1.968	2.916	6.3	21.9
1 12	7 59.42	+23 30.9	1.937	2.915	2.3	21.6
1 22	7 48.86	+24 0.2	1.935	2.914	2.4	21.6
2 1	7 38.75	+24 23.0	1.964	2.913	6.4	21.9
2 11	7 30.17	+24 37.8	2.021	2.910	10.1	22.1
2 21	7 23.88	+24 44.5	2.102	2.907	13.3	22.3

117083 2004 LN_{16} 1 17.4 136°.17 0°.2/17.5 18

12 13	8 20.43	+17 38.1	2.561	3.349	11.5	20.9
12 23	8 14.80	+18 13.0	2.485	3.364	8.7	20.7
1 2	8 7.35	+18 54.6	2.435	3.379	5.5	20.5
1 12	7 58.67	+19 39.9	2.414	3.392	2.0	20.3
1 22	7 49.53	+20 25.4	2.425	3.405	1.6	20.3
2 1	7 40.79	+21 8.0	2.467	3.418	5.1	20.6
2 11	7 33.24	+21 45.3	2.538	3.429	8.2	20.8
2 21	7 27.49	+22 16.2	2.636	3.441	10.9	21.0

56799 2000 PN_4 1 17.4 181°.51 1°.9/18.4 18

12 13	8 19.92	+13 24.7	2.343	3.127	12.6	20.3
12 23	8 14.64	+13 34.8	2.255	3.128	9.8	20.1
1 2	8 7.37	+13 54.5	2.191	3.128	6.5	19.9
1 12	7 58.72	+14 22.3	2.155	3.128	3.1	19.7
1 22	7 49.49	+14 55.5	2.149	3.127	2.4	19.6
2 1	7 40.61	+15 31.2	2.174	3.126	5.6	19.8
2 11	7 32.95	+16 6.5	2.228	3.125	9.0	20.0
2 21	7 27.19	+16 39.4	2.307	3.122	12.0	20.2

283268 2011 HB_4 1 17.4 233°.67 5°.2/20.4 17

12 13	8 16.59	+ 1 57.1	2.746	3.482	12.1	20.9
12 23	8 11.92	+ 1 41.3	2.643	3.470	10.1	20.8
1 2	8 5.59	+ 1 39.3	2.562	3.457	7.8	20.6
1 12	7 58.09	+ 1 52.1	2.508	3.444	5.9	20.4
1 22	7 50.03	+ 2 19.2	2.483	3.431	5.2	20.4
2 1	7 42.16	+ 2 58.8	2.488	3.417	6.5	20.4
2 11	7 35.22	+ 3 47.8	2.521	3.402	8.7	20.6
2 21	7 29.78	+ 4 42.4	2.580	3.388	11.1	20.7

450540 2006 BP_{228} 1 17.4 316°.32 1°.2/16.9 17

12 13	8 19.83	+20 58.0	1.312	2.148	17.9	21.6
12 23	8 16.30	+21 32.5	1.228	2.133	13.7	21.3
1 2	8 9.31	+22 17.8	1.165	2.119	8.7	21.0
1 12	7 59.63	+23 8.5	1.126	2.105	3.2	20.6
1 22	7 48.64	+23 57.4	1.112	2.092	3.3	20.6
2 1	7 38.12	+24 37.7	1.125	2.080	9.0	20.9
2 11	7 29.83	+25 5.8	1.160	2.068	14.4	21.1
2 21	7 24.94	+25 21.1	1.216	2.057	19.0	21.4

45800 2000 PB_{22} 1 17.4 149°.65 4°.1/14.9 18

12 13	8 22.46	+36 15.4	3.121	3.911	9.6	20.1
12 23	8 16.24	+36 52.9	3.049	3.920	7.6	19.9
1 2	8 8.21	+37 25.5	3.004	3.929	5.5	19.8
1 12	7 58.98	+37 48.9	2.987	3.938	4.2	19.7
1 22	7 49.34	+38 0.1	3.002	3.946	4.6	19.8
2 1	7 40.15	+37 58.0	3.046	3.953	6.3	19.9
2 11	7 32.19	+37 43.0	3.119	3.960	8.4	20.0
2 21	7 26.04	+37 17.3	3.216	3.967	10.3	20.2

466361 2013 RZ_{62} 1 17.4 79°.81 0°.9/17.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 19.31	+16 53.8	2.014	2.817	13.7	21.6
12 23	8 14.42	+17 6.0	1.939	2.825	10.5	21.4
1 2	8 7.33	+17 26.6	1.887	2.833	6.7	21.1
1 12	7 58.73	+17 52.9	1.863	2.840	2.7	20.9
1 22	7 49.55	+18 21.8	1.868	2.848	2.0	20.9
2 1	7 40.87	+18 50.0	1.902	2.856	6.0	21.1
2 11	7 33.68	+19 15.2	1.964	2.864	9.8	21.4
2 21	7 28.66	+19 35.8	2.049	2.872	13.0	21.6

49523 1999 CL_{38} 1 17.4 167°.79 3°.0/15.9 18

12 13	8 22.33	+30 36.0	2.652	3.452	10.9	19.0
12 23	8 16.34	+30 56.7	2.571	3.455	8.3	18.8
1 2	8 8.36	+31 14.8	2.516	3.457	5.6	18.6
1 12	7 59.06	+31 26.6	2.490	3.459	3.3	18.5
1 22	7 49.28	+31 29.2	2.495	3.461	3.6	18.5
2 1	7 39.97	+31 21.1	2.530	3.463	6.1	18.7
2 11	7 32.01	+31 2.6	2.593	3.464	8.9	18.9
2 21	7 26.01	+30 35.6	2.681	3.465	11.4	19.0

280764 2005 RE_{14} 1 17.4 217°.29 0°.1/17.4 18

12 13	8 24.75	+19 16.3	1.605	2.416	16.3	21.5
12 23	8 19.31	+19 31.5	1.520	2.411	12.5	21.3
1 2	8 10.82	+19 55.3	1.457	2.405	8.0	21.0
1 12	8 0.09	+20 23.9	1.420	2.399	2.9	20.7
1 22	7 48.34	+20 52.6	1.411	2.392	2.4	20.6
2 1	7 37.10	+21 17.2	1.431	2.385	7.6	20.9
2 11	7 27.83	+21 35.3	1.476	2.377	12.4	21.2
2 21	7 21.50	+21 46.1	1.545	2.368	16.4	21.4

460595 2014 UC_{42} 1 17.4 73°.06 1°.8/16.6 18

12 13	8 21.28	+23 41.8	1.853	2.668	14.2	21.4
12 23	8 16.18	+24 17.6	1.784	2.679	10.7	21.2
1 2	8 8.54	+24 57.3	1.739	2.689	6.8	21.0
1 12	7 59.18	+25 36.1	1.722	2.699	2.7	20.7
1 22	7 49.18	+26 9.0	1.733	2.710	3.0	20.8
2 1	7 39.81	+26 32.6	1.772	2.720	7.0	21.0
2 11	7 32.19	+26 45.6	1.839	2.731	10.8	21.3
2 21	7 27.06	+26 48.5	1.929	2.741	14.1	21.5

447118 2004 TP_{276} 1 17.4 43°.62 1°.9/18.0 17

12 13	8 21.45	+15 40.7	1.271	2.096	18.9	21.3
12 23	8 17.01	+15 42.9	1.213	2.110	14.5	21.1
1 2	8 9.35	+15 58.8	1.175	2.124	9.4	20.8
1 12	7 59.50	+16 25.2	1.161	2.139	4.0	20.5
1 22	7 48.93	+16 57.6	1.173	2.154	3.0	20.5
2 1	7 39.27	+17 30.9	1.211	2.170	8.1	20.9
2 11	7 31.96	+18 1.3	1.274	2.186	13.0	21.2
2 21	7 27.82	+18 26.3	1.358	2.203	17.1	21.5

226596 2004 CY_{31} 1 17.4 103°.19 0°.1/17.4 18

12 13	8 28.72	+19 37.9	1.506	2.315	17.3	20.7
12 23	8 22.00	+19 46.8	1.448	2.337	13.1	20.5
1 2	8 12.24	+20 3.0	1.412	2.360	8.2	20.3
1 12	8 0.47	+20 22.3	1.402	2.381	2.9	20.0
1 22	7 48.15	+20 40.3	1.421	2.402	2.4	20.0
2 1	7 36.82	+20 53.8	1.469	2.422	7.5	20.4
2 11	7 27.82	+21 1.4	1.543	2.442	12.0	20.7
2 21	7 21.90	+21 3.2	1.639	2.460	15.8	21.0

81999 2000 QM_{212} 1 17.4 187°.16 0°.6/17.0 17

12 13	8 17.94	+21 36.3	2.824	3.621	10.4	20.3
12 23	8 12.91	+21 58.1	2.736	3.621	7.8	20.1
1 2	8 6.19	+22 23.3	2.673	3.620	4.9	19.9
1 12	7 58.30	+22 49.4	2.640	3.619	1.8	19.7
1 22	7 49.95	+23 13.7	2.638	3.618	1.7	19.7
2 1	7 41.89	+23 34.0	2.667	3.616	4.9	19.9
2 11	7 34.88	+23 49.0	2.725	3.614	7.8	20.1
2 21	7 29.49	+23 58.3	2.808	3.612	10.4	20.3

39365 2002 BP_{10} 1 17.4 11°.00 0°.2/17.5 18

12 13	8 16.90	+17 39.4	1.093	1.939	19.9	18.3
12 23	8 14.21	+18 12.0	1.032	1.942	15.2	18.0
1 2	8 7.95	+19 0.2	0.990	1.945	9.6	17.8
1 12	7 59.11	+19 58.6	0.970	1.950	3.5	17.4
1 22	7 49.25	+20 59.3	0.975	1.957	2.9	17.4
2 1	7 40.22	+21 54.4	1.004	1.964	9.0	17.8
2 11	7 33.72	+22 38.8	1.056	1.973	14.4	18.1
2 21	7 30.73	+23 10.4	1.126	1.983	19.0	18.4

393640 2004 PY_{14} 1 17.4 112°.08 4°.7/15.9 17

12 13	8 31.87	+32 25.5	1.803	2.607	15.1	21.2
12 23	8 24.19	+33 3.3	1.747	2.630	11.6	21.0
1 2	8 13.52	+33 36.2	1.714	2.652	7.9	20.8
1 12	8 0.92	+33 57.0	1.708	2.673	5.1	20.7
1 22	7 47.81	+34 0.8	1.732	2.694	5.5	20.8
2 1	7 35.76	+33 46.2	1.785	2.714	8.5	21.0
2 11	7 26.05	+33 15.9	1.864	2.733	11.9	21.3
2 21	7 19.41	+32 34.2	1.966	2.751	14.9	21.5

182661 2001 UY_{201} 1 17.4 140°.81 1°.1/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 22.57	+22 39.8	2.027	2.834	13.5	21.3
12 23	8 16.95	+22 59.6	1.951	2.840	10.2	21.1
1 2	8 8.96	+23 23.3	1.898	2.847	6.4	20.9
1 12	7 59.33	+23 46.9	1.874	2.852	2.4	20.6
1 22	7 49.09	+24 6.7	1.879	2.858	2.4	20.6
2 1	7 39.40	+24 20.0	1.913	2.863	6.4	20.9
2 11	7 31.32	+24 25.6	1.976	2.868	10.2	21.1
2 21	7 25.58	+24 24.0	2.062	2.873	13.4	21.3

331739 2002 TC_{263} 1 17.4 96°.80 0°.5/17.7 18

12 13	8 19.07	+17 37.9	2.369	3.165	12.2	20.9
12 23	8 13.89	+17 56.5	2.299	3.182	9.2	20.7
1 2	8 6.83	+18 21.8	2.253	3.198	5.8	20.6
1 12	7 58.53	+18 51.1	2.236	3.214	2.2	20.3
1 22	7 49.81	+19 21.4	2.250	3.230	1.7	20.3
2 1	7 41.55	+19 50.0	2.293	3.246	5.3	20.6
2 11	7 34.58	+20 14.9	2.366	3.262	8.5	20.8
2 21	7 29.47	+20 35.0	2.463	3.277	11.3	21.0

72351 2001 BJ_{71} 1 17.4 3°.11 1°.2/16.9 18

12 13	8 21.41	+22 9.2	1.421	2.251	17.1	19.1
12 23	8 17.03	+22 28.8	1.349	2.250	13.0	18.9
1 2	8 9.47	+22 54.9	1.297	2.250	8.2	18.6
1 12	7 59.62	+23 22.6	1.271	2.250	3.0	18.3
1 22	7 48.85	+23 46.4	1.271	2.251	3.0	18.3
2 1	7 38.78	+24 2.4	1.298	2.252	8.2	18.6
2 11	7 30.90	+24 8.8	1.349	2.254	13.0	18.9
2 21	7 26.15	+24 6.0	1.422	2.256	17.0	19.1

85180 1990 UW_{5} 1 17.4 73°.59 7°.6/14.4 18

12 13	8 30.65	+34 36.2	1.410	2.232	17.6	19.0
12 23	8 24.17	+36 17.0	1.371	2.260	13.7	18.8
1 2	8 13.91	+37 51.0	1.355	2.289	10.0	18.7
1 12	8 1.14	+39 5.9	1.364	2.317	7.7	18.7
1 22	7 47.67	+39 52.8	1.399	2.346	8.5	18.8
2 1	7 35.49	+40 9.0	1.461	2.373	11.4	19.0
2 11	7 26.25	+39 58.1	1.545	2.401	14.7	19.3
2 21	7 20.77	+39 27.1	1.650	2.427	17.6	19.5

383703 2007 TK_{441} 1 17.4 72°.02 0°.4/17.6 18

12 13	8 18.75	+16 49.2	2.244	3.042	12.7	20.7
12 23	8 13.72	+17 28.8	2.182	3.065	9.6	20.6
1 2	8 6.75	+18 16.5	2.144	3.089	6.0	20.4
1 12	7 58.52	+19 8.8	2.135	3.113	2.2	20.2
1 22	7 49.86	+20 1.8	2.155	3.136	1.7	20.2
2 1	7 41.70	+20 51.5	2.207	3.160	5.4	20.5
2 11	7 34.89	+21 35.2	2.287	3.183	8.8	20.7
2 21	7 30.02	+22 11.6	2.392	3.206	11.6	20.9

78806 2003 OM_{5} 1 17.4 144°.79 1°.2/18.1 18

12 13	8 18.51	+14 6.8	2.231	3.023	13.0	20.0
12 23	8 13.71	+14 41.9	2.149	3.027	10.0	19.8
1 2	8 6.86	+15 28.0	2.090	3.032	6.5	19.6
1 12	7 58.60	+16 22.3	2.060	3.036	2.8	19.4
1 22	7 49.74	+17 20.8	2.059	3.040	2.0	19.3
2 1	7 41.24	+18 19.3	2.090	3.043	5.6	19.6
2 11	7 34.01	+19 14.2	2.148	3.047	9.1	19.8
2 21	7 28.73	+20 2.9	2.232	3.050	12.2	20.0

466013 2011 GE_{73} 1 17.4 188°.42 4°.8/14.6 17

12 13	8 22.83	+35 28.3	2.589	3.388	11.1	21.8
12 23	8 17.01	+36 21.6	2.511	3.388	8.8	21.6
1 2	8 8.96	+37 10.6	2.458	3.387	6.4	21.5
1 12	7 59.35	+37 49.9	2.433	3.385	4.9	21.4
1 22	7 49.11	+38 15.0	2.438	3.383	5.5	21.4
2 1	7 39.29	+38 23.6	2.472	3.381	7.5	21.6
2 11	7 30.92	+38 16.1	2.534	3.379	10.0	21.7
2 21	7 24.69	+37 55.1	2.618	3.376	12.3	21.9

95102 2002 AS_{113} 1 17.4 68°.23 0°.6/17.1 18

12 13	8 23.53	+19 42.2	1.394	2.217	17.7	19.9
12 23	8 18.44	+20 19.6	1.336	2.234	13.4	19.6
1 2	8 10.21	+21 6.6	1.300	2.251	8.3	19.4
1 12	7 59.84	+21 57.5	1.289	2.268	2.9	19.1
1 22	7 48.75	+22 45.6	1.305	2.286	2.8	19.2
2 1	7 38.56	+23 25.6	1.349	2.303	8.0	19.5
2 11	7 30.66	+23 54.8	1.417	2.320	12.6	19.8
2 21	7 25.87	+24 12.9	1.508	2.338	16.5	20.1

109858 2001 RS_{136} 1 17.4 129°.14 4°.0/19.6 18

12 13	8 19.41	+ 7 7.3	2.039	2.811	14.7	20.2
12 23	8 14.45	+ 7 16.8	1.961	2.820	11.7	20.0
1 2	8 7.35	+ 7 42.3	1.905	2.828	8.3	19.8
1 12	7 58.78	+ 8 22.9	1.876	2.837	5.2	19.7
1 22	7 49.62	+ 9 15.9	1.875	2.845	4.2	19.6
2 1	7 40.89	+10 17.1	1.904	2.853	6.6	19.8
2 11	7 33.55	+11 21.7	1.961	2.860	9.9	20.0
2 21	7 28.29	+12 25.2	2.043	2.867	13.0	20.2

254661 2005 KJ_7 1 17.4 154°.15 3°.2/19.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 20.20	+ 8 41.9	2.226	2.996	13.6	21.3
12 23	8 14.91	+ 9 0.3	2.143	3.004	10.8	21.1
1 2	8 7.59	+ 9 32.7	2.084	3.011	7.5	20.9
1 12	7 58.87	+10 17.9	2.052	3.018	4.3	20.7
1 22	7 49.56	+11 12.7	2.051	3.024	3.4	20.7
2 1	7 40.64	+12 13.2	2.079	3.029	6.0	20.9
2 11	7 33.01	+13 15.0	2.137	3.034	9.3	21.1
2 21	7 27.33	+14 14.6	2.220	3.038	12.3	21.3

336518 2008 YK_9 1 17.4 87°.95 0°.0/17.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.66	+17 52.1	2.225	3.025	12.7	20.9
12 23	8 13.78	+18 32.8	2.153	3.039	9.6	20.7
1 2	8 6.87	+19 21.4	2.106	3.053	6.0	20.5
1 12	7 58.60	+20 14.4	2.087	3.066	2.2	20.3
1 22	7 49.81	+21 7.4	2.099	3.080	1.8	20.3
2 1	7 41.46	+21 56.6	2.141	3.093	5.6	20.6
2 11	7 34.46	+22 39.1	2.211	3.106	9.1	20.8
2 21	7 29.43	+23 13.8	2.306	3.119	12.0	21.0

240484 2004 BP_{113} 1 17.4 326°.49 4°.0/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.19	+29 38.4	1.961	2.782	13.4	20.1
12 23	8 14.85	+30 28.8	1.876	2.771	10.3	19.8
1 2	8 7.90	+31 19.7	1.815	2.761	6.9	19.6
1 12	7 59.06	+32 4.9	1.781	2.751	4.3	19.4
1 22	7 49.37	+32 38.7	1.775	2.741	4.9	19.5
2 1	7 40.10	+32 57.5	1.797	2.732	8.1	19.6
2 11	7 32.48	+33 0.4	1.845	2.723	11.5	19.8
2 21	7 27.35	+32 49.2	1.916	2.715	14.7	20.0

239302 2007 PO_{40} 1 17.4 100°.13 3°.4/19.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.58	+ 7 57.3	2.469	3.235	12.5	20.6
12 23	8 12.66	+ 7 59.8	2.396	3.252	9.9	20.4
1 2	8 6.03	+ 8 14.6	2.347	3.269	7.0	20.2
1 12	7 58.27	+ 8 40.9	2.325	3.286	4.4	20.1
1 22	7 50.11	+ 9 16.7	2.333	3.302	3.6	20.1
2 1	7 42.36	+ 9 59.1	2.371	3.318	5.6	20.2
2 11	7 35.75	+10 44.9	2.438	3.334	8.3	20.4
2 21	7 30.84	+11 30.8	2.531	3.349	10.9	20.6

77886 2001 SN_{169} 1 17.4 281°.06 7°.7/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.77	+43 0.6	2.319	3.110	12.5	18.7
12 23	8 19.07	+44 11.0	2.245	3.104	10.4	18.6
1 2	8 10.55	+45 12.4	2.196	3.098	8.6	18.5
1 12	8 0.00	+45 57.1	2.172	3.092	7.7	18.4
1 22	7 48.61	+46 19.5	2.177	3.086	8.3	18.4
2 1	7 37.77	+46 17.1	2.207	3.080	10.0	18.5
2 11	7 28.79	+45 51.9	2.263	3.075	12.2	18.6
2 21	7 22.55	+45 8.1	2.339	3.069	14.3	18.8

118392 1999 JO_{124} 1 17.4 306°.54 5°.8/19.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.86	+ 5 59.2	1.849	2.624	15.8	19.6
12 23	8 14.33	+ 5 21.2	1.763	2.620	12.9	19.4
1 2	8 7.45	+ 4 58.7	1.699	2.616	9.7	19.2
1 12	7 58.88	+ 4 53.2	1.660	2.613	6.8	19.0
1 22	7 49.59	+ 5 4.7	1.649	2.609	5.9	18.9
2 1	7 40.69	+ 5 30.9	1.665	2.606	8.0	19.1
2 11	7 33.27	+ 6 8.0	1.707	2.602	11.3	19.2
2 21	7 28.11	+ 6 51.4	1.772	2.599	14.5	19.4

502858 2015 DF_{189} 1 17.4 245°.27 2°.8/15.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.71	+27 9.8	2.434	3.243	11.5	21.6
12 23	8 13.93	+28 3.5	2.350	3.240	8.7	21.4
1 2	8 7.07	+28 59.0	2.291	3.237	5.7	21.2
1 12	7 58.72	+29 51.6	2.261	3.234	3.1	21.0
1 22	7 49.73	+30 36.7	2.261	3.230	3.6	21.1
2 1	7 41.06	+31 10.7	2.291	3.227	6.5	21.2
2 11	7 33.67	+31 32.4	2.349	3.224	9.5	21.4
2 21	7 28.26	+31 42.4	2.430	3.220	12.2	21.6

136736 1995 VW_{10} 1 17.4 143°.29 1°.9/16.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.90	+25 35.1	2.756	3.557	10.5	20.8
12 23	8 13.71	+26 12.4	2.678	3.565	7.9	20.7
1 2	8 6.73	+26 51.3	2.626	3.572	5.0	20.5
1 12	7 58.56	+27 28.1	2.603	3.578	2.3	20.3
1 22	7 49.91	+27 59.5	2.611	3.585	2.7	20.3
2 1	7 41.62	+28 23.0	2.650	3.591	5.4	20.5
2 11	7 34.48	+28 37.6	2.718	3.597	8.2	20.7
2 21	7 29.06	+28 43.7	2.810	3.602	10.7	20.9

177139 2003 QC_{12} 1 17.4 127°.50 0°.3/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.28	+18 26.2	1.920	2.719	14.5	20.9
12 23	8 18.25	+18 44.0	1.850	2.734	11.0	20.7
1 2	8 9.79	+19 9.3	1.803	2.749	6.9	20.5
1 12	7 59.68	+19 38.6	1.784	2.762	2.5	20.2
1 22	7 48.99	+20 8.0	1.795	2.776	2.0	20.2
2 1	7 38.93	+20 34.2	1.835	2.788	6.4	20.5
2 11	7 30.57	+20 55.2	1.904	2.800	10.3	20.8
2 21	7 24.63	+21 10.2	1.996	2.811	13.6	21.0

395188 2010 FC_{98} 1 17.4 162°.58 1°.3/17.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 23.96	+16 6.7	1.938	2.732	14.5	22.0
12 23	8 18.08	+16 16.6	1.858	2.739	11.2	21.8
1 2	8 9.75	+16 35.8	1.801	2.744	7.2	21.6
1 12	7 59.70	+17 1.5	1.772	2.749	3.0	21.3
1 22	7 48.97	+17 30.5	1.773	2.753	2.2	21.3
2 1	7 38.76	+17 59.5	1.803	2.756	6.4	21.6
2 11	7 30.17	+18 25.6	1.861	2.759	10.4	21.8
2 21	7 23.96	+18 47.5	1.944	2.761	13.8	22.0

75297 1999 XY_{32} 1 17.4 337°.26 1°.9/17.9 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.89	+17 57.9	1.416	2.240	17.4	18.0
12 23	8 16.66	+17 26.7	1.334	2.231	13.5	17.7
1 2	8 9.29	+17 2.8	1.273	2.222	8.8	17.5
1 12	7 59.63	+16 44.9	1.237	2.214	3.8	17.1
1 22	7 49.00	+16 31.4	1.227	2.207	3.0	17.1
2 1	7 38.96	+16 20.8	1.243	2.200	8.0	17.4
2 11	7 31.01	+16 11.7	1.284	2.195	13.0	17.6
2 21	7 26.10	+16 3.0	1.346	2.190	17.3	17.9

501686 2014 TQ_{58} 1 17.4 80°.64 8°.4/20.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.68	− 0 18.8	1.871	2.616	16.7	21.1
12 23	8 14.84	− 1 23.2	1.794	2.620	14.2	21.0
1 2	8 7.71	− 2 8.6	1.738	2.625	11.4	20.8
1 12	7 58.97	− 2 31.5	1.706	2.629	9.2	20.7
1 22	7 49.59	− 2 30.7	1.700	2.634	8.5	20.6
2 1	7 40.66	− 2 7.5	1.721	2.638	9.7	20.7
2 11	7 33.22	− 1 26.5	1.767	2.643	12.1	20.9
2 21	7 28.00	− 0 33.6	1.836	2.647	14.7	21.1

391432 2007 EL_{70} 1 17.4 200°.06 1°.1/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.07	+21 37.5	1.852	2.658	14.6	22.0
12 23	8 19.27	+22 10.7	1.766	2.655	11.2	21.7
1 2	8 10.70	+22 50.4	1.703	2.651	7.0	21.5
1 12	8 0.11	+23 31.8	1.667	2.646	2.6	21.2
1 22	7 48.63	+24 9.7	1.661	2.641	2.7	21.2
2 1	7 37.59	+24 39.8	1.685	2.634	7.2	21.5
2 11	7 28.30	+25 0.2	1.736	2.627	11.4	21.7
2 21	7 21.65	+25 10.9	1.810	2.620	15.0	21.9

61124 2000 MX_1 1 17.4 258°.55 0°.5/17.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.96	+21 1.0	1.611	2.427	16.0	19.5
12 23	8 18.85	+21 12.7	1.521	2.415	12.3	19.3
1 2	8 10.66	+21 31.1	1.453	2.402	7.8	19.0
1 12	8 0.16	+21 52.2	1.411	2.390	2.8	18.6
1 22	7 48.58	+22 11.5	1.396	2.377	2.6	18.6
2 1	7 37.44	+22 25.2	1.410	2.364	7.8	18.9
2 11	7 28.24	+22 31.6	1.450	2.350	12.5	19.1
2 21	7 21.99	+22 30.7	1.512	2.337	16.7	19.3

194417 2001 VW_{56} 1 17.4 47°.21 1°.7/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.60	+24 8.9	1.233	2.067	18.9	20.4
12 23	8 20.37	+24 15.8	1.178	2.081	14.3	20.2
1 2	8 11.58	+24 26.1	1.143	2.096	9.0	19.9
1 12	8 0.40	+24 34.4	1.132	2.111	3.4	19.6
1 22	7 48.51	+24 35.7	1.147	2.126	3.4	19.7
2 1	7 37.78	+24 27.5	1.188	2.142	8.8	20.0
2 11	7 29.74	+24 10.3	1.253	2.159	13.7	20.3
2 21	7 25.22	+23 46.2	1.339	2.175	17.8	20.6

176875 2002 UC_{23} 1 17.4 108°.16 0°.6/17.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.73	+20 12.8	2.037	2.837	13.7	20.4
12 23	8 17.70	+20 47.5	1.973	2.859	10.3	20.2
1 2	8 9.37	+21 28.2	1.934	2.881	6.4	20.0
1 12	7 59.54	+22 10.6	1.923	2.902	2.3	19.8
1 22	7 49.21	+22 50.2	1.942	2.922	2.1	19.8
2 1	7 39.50	+23 23.8	1.992	2.942	6.2	20.1
2 11	7 31.43	+23 49.3	2.069	2.961	9.8	20.4
2 21	7 25.66	+24 6.6	2.171	2.979	12.9	20.6

13503 1988 RH_6 1 17.4 87°.85 2°.1/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 28.76	+25 16.3	1.407	2.228	17.6	17.6
12 23	8 22.44	+25 25.1	1.346	2.243	13.4	17.4
1 2	8 12.74	+25 35.5	1.308	2.258	8.5	17.1
1 12	8 0.80	+25 42.0	1.295	2.273	3.4	16.9
1 22	7 48.19	+25 39.8	1.309	2.287	3.5	16.9
2 1	7 36.66	+25 27.1	1.351	2.302	8.4	17.2
2 11	7 27.69	+25 4.9	1.418	2.316	13.0	17.5
2 21	7 22.09	+24 35.8	1.507	2.330	16.8	17.8

406336 2007 RW_{43} 1 17.4 215°.87 1°.3/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.61	+23 24.1	1.982	2.785	13.9	22.1
12 23	8 19.53	+23 40.8	1.889	2.777	10.6	21.9
1 2	8 10.80	+24 0.9	1.821	2.769	6.7	21.6
1 12	8 0.15	+24 20.3	1.781	2.759	2.6	21.3
1 22	7 48.64	+24 34.8	1.771	2.750	2.6	21.3
2 1	7 37.56	+24 41.7	1.790	2.739	6.9	21.6
2 11	7 28.15	+24 40.1	1.838	2.728	10.9	21.8
2 21	7 21.28	+24 30.8	1.909	2.716	14.4	22.0

165929 2001 TC_{211} 1 17.4 354°.24 6°.2/18.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 16.72	+ 8 41.7	1.611	2.410	16.8	17.9
12 23	8 13.02	+ 7 29.9	1.530	2.402	13.6	17.7
1 2	8 6.77	+ 6 30.6	1.471	2.396	10.1	17.5
1 12	7 58.70	+ 5 46.8	1.435	2.392	7.1	17.3
1 22	7 49.87	+ 5 19.9	1.426	2.388	6.4	17.2
2 1	7 41.53	+ 5 9.9	1.443	2.386	8.8	17.4
2 11	7 34.84	+ 5 14.0	1.484	2.385	12.3	17.6
2 21	7 30.63	+ 5 28.3	1.547	2.385	15.7	17.8

502505 2015 BE_{420} 1 17.4 169°.20 2°.5/16.2 18

12 13	8 21.43	+28 33.9	2.539	3.342	11.2	21.5
12 23	8 15.78	+28 53.2	2.457	3.343	8.5	21.4
1 2	8 8.12	+29 11.3	2.401	3.345	5.6	21.2
1 12	7 59.10	+29 24.6	2.373	3.346	2.9	21.0
1 22	7 49.57	+29 30.1	2.376	3.347	3.2	21.0
2 1	7 40.50	+29 26.2	2.409	3.348	6.0	21.2
2 11	7 32.77	+29 12.9	2.470	3.349	9.0	21.4
2 21	7 27.01	+28 51.5	2.557	3.349	11.6	21.6

247441 2002 EG_{82} 1 17.4 293°.19 4°.5/19.4 18

12 13	8 17.82	+ 8 8.1	1.937	2.719	15.0	20.4
12 23	8 13.56	+ 7 50.8	1.843	2.708	12.0	20.2
1 2	8 7.01	+ 7 48.0	1.771	2.697	8.7	20.0
1 12	7 58.79	+ 8 0.0	1.725	2.685	5.6	19.8
1 22	7 49.78	+ 8 25.8	1.706	2.675	4.7	19.7
2 1	7 41.08	+ 9 2.6	1.716	2.664	7.2	19.8
2 11	7 33.75	+ 9 46.5	1.752	2.653	10.7	20.0
2 21	7 28.58	+10 33.1	1.812	2.642	14.1	20.2

84512 2002 TK_{291} 1 17.4 127°.45 5°.2/19.3 18

12 13	8 22.80	+ 7 22.4	2.012	2.779	15.0	19.6
12 23	8 16.96	+ 6 37.2	1.936	2.790	12.1	19.4
1 2	8 8.93	+ 6 4.8	1.884	2.801	8.9	19.2
1 12	7 59.40	+ 5 46.5	1.857	2.811	6.0	19.1
1 22	7 49.34	+ 5 42.3	1.860	2.821	5.3	19.0
2 1	7 39.79	+ 5 50.7	1.892	2.831	7.4	19.2
2 11	7 31.76	+ 6 8.7	1.951	2.840	10.4	19.4
2 21	7 25.91	+ 6 32.8	2.034	2.848	13.4	19.6

743 Eugenisis 1 17.4 54°.69 2°.6/18.5 18

12 13	8 19.43	+13 26.6	1.891	2.689	14.7	14.7
12 23	8 14.68	+13 17.8	1.814	2.694	11.4	14.4
1 2	8 7.61	+13 19.7	1.760	2.699	7.7	14.2
1 12	7 58.96	+13 31.2	1.732	2.704	3.9	14.0
1 22	7 49.69	+13 50.1	1.732	2.710	3.0	14.0
2 1	7 40.93	+14 13.6	1.761	2.715	6.5	14.2
2 11	7 33.70	+14 38.6	1.818	2.721	10.3	14.4
2 21	7 28.72	+15 2.7	1.898	2.726	13.6	14.7

466389 2013 SH_{43} 1 17.4 81°.68 3°.5/15.5 18

12 13	8 20.75	+27 59.7	2.060	2.874	13.0	20.8
12 23	8 15.79	+29 1.0	1.987	2.879	9.9	20.6
1 2	8 8.39	+30 3.8	1.938	2.884	6.5	20.4
1 12	7 59.26	+31 1.9	1.918	2.889	3.8	20.3
1 22	7 49.43	+31 49.6	1.927	2.894	4.4	20.3
2 1	7 40.07	+32 23.0	1.964	2.899	7.5	20.5
2 11	7 32.32	+32 41.2	2.028	2.903	10.8	20.7
2 21	7 26.94	+32 45.4	2.116	2.908	13.7	20.9

248527 2005 WC_{121} 1 17.4 98°.65 4°.2/19.0 17

12 13	8 24.99	+10 3.3	1.554	2.344	17.7	20.8
12 23	8 19.10	+ 9 46.6	1.493	2.365	13.9	20.6
1 2	8 10.45	+ 9 45.7	1.453	2.385	9.6	20.4
1 12	7 59.97	+10 0.1	1.438	2.404	5.6	20.2
1 22	7 48.90	+10 27.0	1.450	2.423	4.5	20.2
2 1	7 38.63	+11 2.5	1.491	2.442	7.8	20.5
2 11	7 30.38	+11 42.0	1.558	2.460	11.7	20.7
2 21	7 24.89	+12 21.6	1.648	2.478	15.3	21.0

58190 1991 VH_{12} 1 17.4 193°.09 3°.2/16.0 18

12 13	8 26.13	+26 28.8	1.810	2.621	14.7	20.3
12 23	8 20.23	+27 20.3	1.728	2.619	11.2	20.1
1 2	8 11.39	+28 14.8	1.671	2.617	7.3	19.8
1 12	8 0.39	+29 5.7	1.640	2.615	3.7	19.6
1 22	7 48.46	+29 46.4	1.639	2.611	4.3	19.6
2 1	7 37.05	+30 12.6	1.667	2.607	8.1	19.9
2 11	7 27.54	+30 23.3	1.722	2.603	12.1	20.1
2 21	7 20.88	+30 20.4	1.799	2.597	15.5	20.3

34204 Quryshi 1 17.4 17°.72 1°.9/18.3 18

12 13	8 17.96	+13 42.5	1.640	2.450	16.1	18.2
12 23	8 13.97	+14 4.6	1.565	2.453	12.4	18.0
1 2	8 7.37	+14 41.1	1.511	2.456	8.2	17.7
1 12	7 58.93	+15 29.1	1.484	2.459	3.7	17.5
1 22	7 49.72	+16 24.0	1.483	2.463	2.6	17.4
2 1	7 41.02	+17 20.7	1.511	2.468	7.0	17.7
2 11	7 34.04	+18 14.3	1.565	2.473	11.3	17.9
2 21	7 29.59	+19 1.4	1.641	2.478	15.0	18.2

325676 2009 TL_{13} 1 17.4 213°.55 4°.0/15.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 23.84	+30 54.6	2.157	2.965	12.8	21.1
12 23	8 18.11	+31 35.8	2.074	2.960	9.9	20.9
1 2	8 9.85	+32 15.4	2.015	2.956	6.7	20.7
1 12	7 59.80	+32 47.7	1.984	2.951	4.2	20.5
1 22	7 48.99	+33 7.8	1.982	2.946	4.7	20.5
2 1	7 38.67	+33 12.9	2.010	2.940	7.6	20.7
2 11	7 29.98	+33 3.2	2.064	2.934	10.8	20.9
2 21	7 23.74	+32 41.2	2.142	2.928	13.7	21.1

322615 1995 FJ_{18} 1 17.4 21°.12 8°.2/21.8 17

12 13	8 14.69	+ 0 27.9	1.249	2.040	21.2	20.0
12 23	8 11.93	+ 0 22.8	1.190	2.051	17.6	19.8
1 2	8 6.25	+ 0 49.2	1.149	2.063	13.5	19.6
1 12	7 58.54	+ 1 48.5	1.128	2.076	9.8	19.4
1 22	7 50.07	+ 3 16.7	1.131	2.091	8.2	19.3
2 1	7 42.31	+ 5 5.6	1.159	2.107	9.9	19.5
2 11	7 36.59	+ 7 3.8	1.211	2.124	13.4	19.7
2 21	7 33.72	+ 9 0.7	1.285	2.142	17.1	20.0

438127 2005 QU_{114} 1 17.4 80°.42 4°.0/16.2 17

12 13	8 29.82	+28 16.4	1.372	2.196	17.9	21.1
12 23	8 23.32	+28 56.4	1.322	2.218	13.6	20.9
1 2	8 13.31	+29 35.8	1.293	2.241	8.8	20.7
1 12	8 1.01	+30 6.4	1.290	2.264	4.6	20.5
1 22	7 48.11	+30 21.7	1.314	2.286	5.1	20.6
2 1	7 36.44	+30 19.4	1.365	2.308	9.2	20.9
2 11	7 27.51	+30 1.3	1.441	2.329	13.4	21.2
2 21	7 22.09	+29 31.5	1.538	2.351	17.0	21.5

452330 2000 SJ_{314} 1 17.4 181°.08 2°.5/18.2 18

12 13	8 25.22	+14 43.6	1.901	2.690	15.0	21.0
12 23	8 19.08	+14 18.3	1.815	2.691	11.6	20.8
1 2	8 10.43	+14 1.3	1.754	2.692	7.8	20.5
1 12	8 0.00	+13 51.7	1.719	2.692	3.8	20.3
1 22	7 48.87	+13 48.3	1.714	2.691	3.1	20.2
2 1	7 38.25	+13 49.3	1.739	2.690	6.8	20.5
2 11	7 29.30	+13 53.0	1.791	2.688	10.7	20.7
2 21	7 22.79	+13 57.8	1.868	2.686	14.2	20.9

333408 2002 VU_{12} 1 17.4 108°.55 4°.3/19.5 18

12 13	8 18.50	+ 7 12.8	2.440	3.203	12.8	20.3
12 23	8 13.42	+ 6 44.8	2.363	3.214	10.3	20.2
1 2	8 6.57	+ 6 28.4	2.309	3.225	7.5	20.0
1 12	7 58.56	+ 6 24.0	2.282	3.236	5.0	19.9
1 22	7 50.12	+ 6 30.9	2.284	3.246	4.4	19.8
2 1	7 42.07	+ 6 47.5	2.317	3.257	6.1	20.0
2 11	7 35.20	+ 7 11.1	2.377	3.267	8.8	20.1
2 21	7 30.05	+ 7 38.8	2.463	3.277	11.3	20.3

268454 2005 WT_{72} 1 17.4 357°.28 2°.7/18.2 18

12 13	8 19.05	+15 23.7	1.526	2.342	16.7	19.9
12 23	8 14.97	+14 54.6	1.448	2.339	13.0	19.6
1 2	8 8.08	+14 35.2	1.392	2.337	8.7	19.4
1 12	7 59.22	+14 25.0	1.361	2.336	4.2	19.1
1 22	7 49.55	+14 22.4	1.356	2.335	3.3	19.0
2 1	7 40.47	+14 25.4	1.379	2.335	7.6	19.3
2 11	7 33.27	+14 31.5	1.426	2.336	12.0	19.5
2 21	7 28.80	+14 38.6	1.496	2.338	15.9	19.8

437362 2013 UG_{3} 1 17.4 207°.41 15°.4/12.8 16

12 13	8 45.21	+51 25.1	1.302	2.088	20.7	21.0
12 23	8 37.72	+53 11.3	1.246	2.086	18.3	20.8
1 2	8 23.86	+54 35.9	1.209	2.083	16.3	20.7
1 12	8 5.13	+55 19.7	1.192	2.080	15.4	20.6
1 22	7 44.65	+55 9.5	1.197	2.077	16.0	20.6
2 1	7 26.31	+54 4.2	1.223	2.073	18.0	20.8
2 11	7 13.09	+52 15.1	1.268	2.069	20.5	20.9
2 21	7 6.05	+49 58.8	1.330	2.064	23.1	21.1

297447 2000 SF_{239} 1 17.4 69°.73 0°.7/17.2 17

12 13	8 25.16	+20 58.7	1.432	2.252	17.4	21.4
12 23	8 19.57	+21 19.9	1.377	2.273	13.1	21.1
1 2	8 10.88	+21 48.1	1.343	2.294	8.2	20.9
1 12	8 0.16	+22 18.1	1.335	2.315	2.9	20.7
1 22	7 48.84	+22 44.7	1.355	2.335	2.7	20.7
2 1	7 38.49	+23 4.1	1.402	2.356	7.7	21.0
2 11	7 30.46	+23 14.8	1.474	2.377	12.3	21.4
2 21	7 25.50	+23 17.3	1.569	2.397	16.0	21.6

36701 2000 RY_{17} 1 17.4 201°.13 1°.9/18.3 18

12 13	8 20.81	+14 26.0	2.334	3.119	12.6	19.9
12 23	8 15.41	+14 21.5	2.241	3.115	9.8	19.7
1 2	8 7.97	+14 25.2	2.173	3.111	6.5	19.4
1 12	7 59.11	+14 35.8	2.133	3.107	3.1	19.2
1 22	7 49.65	+14 51.3	2.124	3.102	2.4	19.2
2 1	7 40.52	+15 9.6	2.144	3.096	5.6	19.4
2 11	7 32.64	+15 28.5	2.194	3.090	9.1	19.6
2 21	7 26.67	+15 46.3	2.268	3.084	12.1	19.8

184935 2005 VY_{43} 1 17.4 319°.31 0°.3/17.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 20.20	+19 41.2	1.801	2.614	14.7	20.7
12 23	8 15.58	+20 8.3	1.719	2.612	11.2	20.5
1 2	8 8.37	+20 43.4	1.661	2.610	7.1	20.2
1 12	7 59.32	+21 22.6	1.629	2.608	2.5	19.9
1 22	7 49.47	+22 1.3	1.626	2.607	2.3	19.9
2 1	7 40.09	+22 35.2	1.651	2.605	6.8	20.2
2 11	7 32.38	+23 1.8	1.703	2.604	11.0	20.4
2 21	7 27.15	+23 20.2	1.779	2.602	14.6	20.6

49507 1999 CF_{20} 1 17.4 6°.75 8°.7/14.7 18

12 13	8 26.72	+39 33.2	1.458	2.279	17.1	17.7
12 23	8 21.60	+40 30.9	1.395	2.280	13.9	17.5
1 2	8 12.60	+41 17.9	1.354	2.281	10.8	17.3
1 12	8 0.88	+41 43.7	1.337	2.282	8.8	17.2
1 22	7 48.21	+41 40.9	1.344	2.285	9.5	17.3
2 1	7 36.65	+41 7.6	1.376	2.288	12.1	17.4
2 11	7 27.95	+40 8.5	1.432	2.292	15.3	17.6
2 21	7 23.02	+38 51.3	1.506	2.296	18.4	17.8

374452 2005 XP_{5} 1 17.4 6°.11 10°.7/17.5 17

12 13	8 29.50	+10 23.7	0.949	1.771	24.1	19.4
12 23	8 24.13	+ 7 31.1	0.886	1.771	19.8	19.1
1 2	8 14.44	+ 4 46.4	0.841	1.771	15.1	18.8
1 12	8 1.61	+ 2 21.3	0.818	1.772	11.4	18.6
1 22	7 47.58	+ 0 26.9	0.818	1.774	11.2	18.6
2 1	7 34.65	− 0 49.9	0.841	1.777	14.5	18.8
2 11	7 24.87	− 1 30.3	0.885	1.780	19.0	19.1
2 21	7 19.31	− 1 41.6	0.945	1.785	23.2	19.3

406006 2006 SA_{368} 1 17.4 131°.37 7°.4/14.5 18

12 13	8 31.07	+40 39.1	2.009	2.803	14.1	21.7
12 23	8 23.88	+41 37.7	1.948	2.814	11.4	21.5
1 2	8 13.56	+42 26.2	1.911	2.825	8.9	21.4
1 12	8 1.14	+42 56.3	1.900	2.835	7.5	21.3
1 22	7 48.03	+43 2.5	1.916	2.845	8.0	21.3
2 1	7 35.85	+42 43.3	1.961	2.854	10.1	21.5
2 11	7 25.98	+42 2.2	2.030	2.863	12.6	21.7
2 21	7 19.25	+41 4.8	2.122	2.871	15.0	21.9

20829 2000 UR_{27} 1 17.4 162°.57 3°.7/19.4 18

12 13	8 18.98	+ 7 50.9	2.398	3.163	12.9	19.6
12 23	8 13.90	+ 7 46.9	2.312	3.168	10.3	19.4
1 2	8 6.96	+ 7 55.5	2.250	3.172	7.4	19.2
1 12	7 58.74	+ 8 16.2	2.216	3.176	4.6	19.0
1 22	7 50.00	+ 8 47.4	2.211	3.179	3.8	19.0
2 1	7 41.60	+ 9 26.5	2.237	3.182	5.9	19.1
2 11	7 34.37	+10 10.0	2.291	3.185	8.9	19.3
2 21	7 28.92	+10 54.7	2.370	3.187	11.6	19.5

170357 2003 SZ_{190} 1 17.4 87°.28 0°.7/17.2 18

12 13	8 24.80	+21 8.3	1.634	2.448	15.9	20.7
12 23	8 19.02	+21 31.4	1.574	2.466	12.0	20.5
1 2	8 10.44	+22 0.8	1.536	2.485	7.5	20.3
1 12	8 0.01	+22 31.5	1.524	2.504	2.7	20.0
1 22	7 48.99	+22 58.9	1.541	2.522	2.5	20.0
2 1	7 38.79	+23 19.4	1.587	2.540	7.2	20.4
2 11	7 30.63	+23 31.5	1.659	2.557	11.4	20.6
2 21	7 25.26	+23 35.7	1.754	2.575	14.9	20.9

235038 2003 FS_{36} 1 17.4 186°.02 1°.0/17.9 18

12 13	8 23.91	+16 34.2	1.998	2.791	14.2	21.8
12 23	8 18.10	+16 48.3	1.911	2.791	10.9	21.6
1 2	8 9.84	+17 11.3	1.848	2.791	7.0	21.4
1 12	7 59.84	+17 40.5	1.812	2.789	2.8	21.1
1 22	7 49.09	+18 12.5	1.807	2.787	2.1	21.1
2 1	7 38.76	+18 43.7	1.832	2.785	6.3	21.3
2 11	7 29.98	+19 11.4	1.884	2.781	10.3	21.6
2 21	7 23.54	+19 34.3	1.962	2.777	13.8	21.8

165800 2001 RJ_{50} 1 17.4 113°.35 2°.9/18.9 18

12 13	8 18.41	+11 10.3	2.477	3.254	12.2	20.1
12 23	8 13.37	+10 54.2	2.398	3.263	9.6	19.9
1 2	8 6.56	+10 47.3	2.342	3.272	6.6	19.7
1 12	7 58.59	+10 49.3	2.315	3.281	3.8	19.6
1 22	7 50.18	+10 58.9	2.317	3.290	3.1	19.5
2 1	7 42.16	+11 14.4	2.350	3.299	5.5	19.7
2 11	7 35.30	+11 33.5	2.411	3.307	8.4	19.9
2 21	7 30.16	+11 54.0	2.498	3.315	11.1	20.1

417563 2006 UH_{143} 1 17.4 22°.23 11°.7/21.9 18

12 13	8 17.22	− 3 10.0	1.364	2.127	21.1	20.2
12 23	8 13.65	− 4 37.3	1.304	2.135	18.2	20.1
1 2	8 7.27	− 5 37.0	1.262	2.145	15.1	19.9
1 12	7 58.94	− 6 3.2	1.241	2.156	12.7	19.8
1 22	7 49.87	− 5 53.7	1.241	2.167	11.7	19.8
2 1	7 41.46	− 5 11.2	1.265	2.180	12.6	19.9
2 11	7 35.00	− 4 3.2	1.311	2.193	15.0	20.0
2 21	7 31.30	− 2 39.6	1.377	2.208	17.7	20.2

203552 2002 CD_{82} 1 17.4 16°.38 0°.6/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 19.19	+17 52.8	1.173	2.011	19.3	20.0
12 23	8 15.78	+18 8.9	1.110	2.015	14.8	19.8
1 2	8 8.92	+18 38.2	1.067	2.020	9.4	19.5
1 12	7 59.59	+19 16.2	1.047	2.026	3.5	19.2
1 22	7 49.32	+19 57.0	1.052	2.033	2.7	19.1
2 1	7 39.88	+20 34.5	1.082	2.041	8.6	19.5
2 11	7 32.88	+21 4.8	1.135	2.050	13.9	19.8
2 21	7 29.27	+21 26.0	1.208	2.060	18.3	20.1

166645 2002 TV_{1} 1 17.4 121°.96 6°.8/13.8 18

12 13	8 25.46	+41 9.9	2.409	3.200	12.1	20.2
12 23	8 19.30	+42 13.1	2.345	3.208	9.9	20.0
1 2	8 10.57	+43 7.6	2.306	3.216	7.9	19.9
1 12	8 0.07	+43 46.9	2.294	3.223	6.8	19.9
1 22	7 48.93	+44 6.0	2.310	3.230	7.3	19.9
2 1	7 38.42	+44 3.2	2.354	3.237	9.1	20.0
2 11	7 29.69	+43 40.3	2.423	3.244	11.2	20.2
2 21	7 23.50	+43 1.3	2.514	3.251	13.3	20.3

343932 2011 KV_{12} 1 17.4 191°.83 5°.6/21.2 18

12 13	8 16.21	− 0 46.2	2.856	3.576	12.1	21.7
12 23	8 11.58	− 0 59.5	2.762	3.574	10.1	21.5
1 2	8 5.42	− 0 57.9	2.691	3.572	8.1	21.4
1 12	7 58.19	− 0 40.4	2.646	3.570	6.3	21.3
1 22	7 50.50	− 0 7.5	2.630	3.567	5.6	21.2
2 1	7 43.04	+ 0 38.7	2.643	3.564	6.5	21.3
2 11	7 36.49	+ 1 34.9	2.685	3.560	8.4	21.4
2 21	7 31.37	+ 2 37.1	2.753	3.557	10.6	21.5

76659 2000 HX_{36} 1 17.4 288°.51 4°.6/19.8 18

12 13	8 17.96	+ 6 18.6	1.777	2.558	16.2	18.6
12 23	8 13.93	+ 6 34.0	1.684	2.548	13.1	18.3
1 2	8 7.40	+ 7 9.6	1.613	2.538	9.4	18.1
1 12	7 59.03	+ 8 5.1	1.566	2.528	5.9	17.9
1 22	7 49.75	+ 9 17.4	1.547	2.518	4.7	17.8
2 1	7 40.75	+10 41.0	1.556	2.508	7.4	17.9
2 11	7 33.22	+12 9.1	1.593	2.498	11.3	18.1
2 21	7 28.04	+13 35.5	1.653	2.488	15.0	18.3

65861 1997 JK_{4} 1 17.4 100°.14 2°.0/16.6 18

12 13	8 24.02	+24 19.6	1.762	2.576	14.9	19.6
12 23	8 18.42	+24 52.6	1.695	2.588	11.3	19.4
1 2	8 10.10	+25 29.1	1.651	2.600	7.1	19.2
1 12	7 59.92	+26 3.5	1.634	2.611	3.0	19.0
1 22	7 49.09	+26 31.0	1.646	2.623	3.2	19.0
2 1	7 38.95	+26 48.1	1.686	2.634	7.3	19.3
2 11	7 30.73	+26 54.1	1.753	2.645	11.3	19.5
2 21	7 25.21	+26 50.1	1.844	2.656	14.6	19.8

433082 2012 TY_{73} 1 17.4 17°.32 3°.5/19.2 18

12 13	8 16.77	+ 9 32.9	2.309	3.087	13.0	21.3
12 23	8 12.34	+ 9 20.5	2.223	3.087	10.3	21.1
1 2	8 6.04	+ 9 19.5	2.161	3.088	7.3	21.0
1 12	7 58.45	+ 9 29.6	2.126	3.089	4.4	20.8
1 22	7 50.33	+ 9 49.5	2.120	3.090	3.6	20.7
2 1	7 42.55	+10 16.9	2.143	3.091	5.9	20.9
2 11	7 35.95	+10 48.9	2.194	3.092	9.0	21.1
2 21	7 31.15	+11 22.5	2.270	3.094	11.8	21.3

460772 2014 WY_{7} 1 17.4 93°.60 8°.4/13.3 18

12 13	8 26.71	+40 26.4	1.857	2.663	14.6	20.7
12 23	8 21.10	+41 54.6	1.793	2.665	12.0	20.5
1 2	8 12.15	+43 14.5	1.752	2.666	9.6	20.4
1 12	8 0.77	+44 16.1	1.736	2.668	8.4	20.3
1 22	7 48.38	+44 51.8	1.747	2.670	9.1	20.4
2 1	7 36.72	+44 58.5	1.785	2.671	11.3	20.5
2 11	7 27.35	+44 38.4	1.846	2.673	13.9	20.7
2 21	7 21.24	+43 57.4	1.927	2.674	16.4	20.8

304875 2007 RH_{149} 1 17.4 113°.85 2°.9/16.4 18

12 13	8 27.45	+27 14.9	1.762	2.573	15.1	21.6
12 23	8 21.01	+27 44.3	1.697	2.588	11.4	21.4
1 2	8 11.71	+28 14.0	1.656	2.603	7.4	21.2
1 12	8 0.50	+28 37.9	1.643	2.617	3.6	21.0
1 22	7 48.68	+28 51.3	1.658	2.631	3.9	21.1
2 1	7 37.69	+28 51.8	1.702	2.645	7.7	21.3
2 11	7 28.79	+28 39.9	1.773	2.658	11.5	21.6
2 21	7 22.74	+28 18.1	1.867	2.671	14.8	21.8

268476 2005 XV_{52} 1 17.4 46°.08 1°.0/17.1 18

12 13	8 21.71	+22 52.8	1.804	2.620	14.6	21.3
12 23	8 16.63	+23 4.6	1.731	2.625	11.0	21.1
1 2	8 8.97	+23 20.2	1.681	2.631	6.9	20.8
1 12	7 59.54	+23 35.7	1.658	2.637	2.6	20.6
1 22	7 49.46	+23 47.4	1.663	2.643	2.5	20.6
2 1	7 40.01	+23 52.8	1.697	2.649	6.8	20.9
2 11	7 32.33	+23 50.8	1.758	2.656	10.9	21.1
2 21	7 27.19	+23 42.2	1.841	2.662	14.3	21.4

172050 2001 XE_{110} 1 17.4 124°.47 4°.0/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 21.18	+32 46.5	2.802	3.602	10.4	21.2
12 23	8 15.58	+33 51.5	2.735	3.615	8.0	21.0
1 2	8 8.04	+34 54.1	2.695	3.629	5.7	20.9
1 12	7 59.16	+35 49.1	2.684	3.642	4.1	20.8
1 22	7 49.77	+36 32.3	2.703	3.654	4.6	20.9
2 1	7 40.76	+37 1.2	2.753	3.666	6.7	21.0
2 11	7 33.01	+37 15.6	2.830	3.678	9.0	21.2
2 21	7 27.14	+37 16.9	2.932	3.690	11.1	21.4

27214 1999 CE_{117} 1 17.4 56°.75 3°.2/18.5 18

12 13	8 22.64	+13 35.0	1.585	2.388	16.8	17.7
12 23	8 17.32	+13 5.8	1.524	2.406	13.1	17.5
1 2	8 9.35	+12 48.0	1.485	2.425	8.8	17.3
1 12	7 59.65	+12 41.2	1.472	2.443	4.6	17.1
1 22	7 49.42	+12 43.4	1.485	2.462	3.7	17.1
2 1	7 39.98	+12 52.4	1.527	2.481	7.3	17.3
2 11	7 32.48	+13 5.3	1.595	2.500	11.3	17.6
2 21	7 27.62	+13 19.5	1.686	2.519	14.8	17.9

250478 2004 DF_{10} 1 17.4 2°.78 5°.8/19.8 16

12 13	8 13.78	+ 7 42.0	1.161	1.985	20.5	20.3
12 23	8 11.63	+ 7 28.3	1.094	1.982	16.5	20.1
1 2	8 6.32	+ 7 39.0	1.045	1.982	11.9	19.8
1 12	7 58.71	+ 8 14.6	1.017	1.983	7.5	19.6
1 22	7 50.12	+ 9 12.2	1.012	1.985	6.0	19.5
2 1	7 42.17	+10 24.8	1.032	1.990	9.3	19.7
2 11	7 36.38	+11 43.9	1.075	1.996	13.9	20.0
2 21	7 33.69	+13 1.1	1.137	2.003	18.2	20.2

343493 2010 EG_{100} 1 17.4 195°.98 2°.1/18.6 17

12 13	8 17.41	+12 40.0	2.544	3.325	11.8	21.1
12 23	8 12.70	+12 43.9	2.453	3.324	9.2	20.9
1 2	8 6.22	+12 56.9	2.388	3.323	6.2	20.7
1 12	7 58.52	+13 17.8	2.350	3.321	3.2	20.5
1 22	7 50.30	+13 44.8	2.342	3.319	2.4	20.4
2 1	7 42.38	+14 15.2	2.365	3.317	5.2	20.6
2 11	7 35.54	+14 46.7	2.416	3.314	8.3	20.8
2 21	7 30.37	+15 17.0	2.494	3.312	11.1	21.0

58714 1998 DS_{2} 1 17.4 47°.57 1°.9/16.6 18

12 13	8 22.47	+20 35.9	1.203	2.039	19.1	18.3
12 23	8 18.13	+21 44.6	1.153	2.058	14.4	18.1
1 2	8 10.30	+23 4.5	1.125	2.079	8.9	17.8
1 12	8 0.07	+24 26.6	1.120	2.099	3.4	17.6
1 22	7 49.06	+25 41.2	1.142	2.121	3.7	17.7
2 1	7 39.07	+26 40.9	1.189	2.142	9.0	18.0
2 11	7 31.66	+27 22.7	1.261	2.164	13.8	18.4
2 21	7 27.68	+27 47.3	1.353	2.187	17.8	18.7

432447 2010 CX_{47} 1 17.4 263°.40 4°.2/19.6 17

12 13	8 16.65	+ 6 40.1	2.564	3.325	12.3	21.4
12 23	8 12.17	+ 6 22.3	2.461	3.311	9.9	21.2
1 2	8 5.94	+ 6 16.2	2.382	3.298	7.3	21.0
1 12	7 58.44	+ 6 22.3	2.330	3.284	5.0	20.8
1 22	7 50.36	+ 6 39.9	2.307	3.269	4.3	20.8
2 1	7 42.48	+ 7 7.3	2.314	3.255	6.1	20.9
2 11	7 35.60	+ 7 41.8	2.349	3.241	8.8	21.0
2 21	7 30.33	+ 8 20.1	2.409	3.226	11.5	21.2

301637 2010 EX_{43} 1 17.4 247°.80 0°.4/17.6 18

12 13	8 22.56	+17 37.6	1.622	2.433	16.1	21.3
12 23	8 17.76	+18 2.5	1.533	2.424	12.4	21.0
1 2	8 10.01	+18 38.7	1.466	2.414	8.0	20.7
1 12	8 0.03	+19 22.6	1.426	2.404	3.0	20.4
1 22	7 48.99	+20 8.9	1.413	2.394	2.4	20.3
2 1	7 38.35	+20 52.5	1.428	2.384	7.5	20.6
2 11	7 29.52	+21 29.6	1.470	2.373	12.3	20.8
2 21	7 23.52	+21 58.4	1.534	2.362	16.3	21.1

172431 2003 QO_{16} 1 17.4 48°.48 1°.8/16.9 18

12 13	8 24.23	+24 1.2	1.377	2.206	17.5	20.2
12 23	8 19.15	+24 19.0	1.318	2.218	13.3	20.0
1 2	8 10.79	+24 40.6	1.279	2.231	8.4	19.8
1 12	8 0.23	+25 0.6	1.266	2.245	3.3	19.5
1 22	7 48.95	+25 13.6	1.279	2.258	3.4	19.5
2 1	7 38.63	+25 16.6	1.320	2.272	8.3	19.9
2 11	7 30.71	+25 9.4	1.385	2.287	12.9	20.2
2 21	7 26.02	+24 53.6	1.471	2.301	16.8	20.4

135673 2002 NX_{26} 1 17.4 99°.18 0°.9/17.1 18

12 13	8 26.98	+22 35.0	1.965	2.765	14.1	21.1
12 23	8 20.14	+22 46.7	1.906	2.792	10.6	20.9
1 2	8 10.91	+23 1.5	1.871	2.818	6.6	20.7
1 12	8 0.17	+23 15.4	1.865	2.844	2.4	20.5
1 22	7 49.03	+23 25.3	1.889	2.869	2.3	20.5
2 1	7 38.68	+23 28.9	1.943	2.893	6.3	20.8
2 11	7 30.17	+23 26.0	2.025	2.917	10.0	21.1
2 21	7 24.13	+23 17.4	2.132	2.939	13.1	21.4

53776 2000 EO_{92} 1 17.4 102°.36 7°.4/21.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 20.66	− 0 53.5	2.006	2.741	16.1	18.8
12 23	8 15.35	− 1 23.6	1.939	2.760	13.4	18.6
1 2	8 7.94	− 1 33.4	1.893	2.779	10.7	18.5
1 12	7 59.14	− 1 21.2	1.872	2.798	8.3	18.4
1 22	7 49.85	− 0 47.9	1.878	2.816	7.4	18.4
2 1	7 41.08	+ 0 3.5	1.911	2.834	8.5	18.5
2 11	7 33.77	+ 1 7.5	1.972	2.852	10.8	18.6
2 21	7 28.55	+ 2 18.1	2.057	2.869	13.3	18.8

90975 1997 WF_{37} 1 17.5 91°.11 0°.2/17.4 18

12 13	8 24.81	+18 46.0	1.563	2.375	16.6	20.0
12 23	8 19.15	+19 19.4	1.503	2.395	12.6	19.8
1 2	8 10.62	+20 2.3	1.466	2.414	7.9	19.6
1 12	8 0.15	+20 49.5	1.455	2.434	2.8	19.3
1 22	7 49.04	+21 35.3	1.472	2.452	2.4	19.4
2 1	7 38.73	+22 14.9	1.517	2.471	7.3	19.7
2 11	7 30.51	+22 45.7	1.589	2.489	11.7	20.0
2 21	7 25.16	+23 7.1	1.683	2.507	15.3	20.3

104298 2000 EG_{172} 1 17.5 45°.33 3°.7/18.9 18

12 13	8 21.24	+11 19.3	1.154	1.977	20.6	18.8
12 23	8 17.11	+11 21.8	1.101	1.993	16.1	18.6
1 2	8 9.63	+11 44.9	1.067	2.010	10.9	18.3
1 12	7 59.85	+12 26.1	1.055	2.028	5.6	18.1
1 22	7 49.31	+13 20.2	1.068	2.046	4.2	18.1
2 1	7 39.74	+14 20.0	1.106	2.065	8.6	18.4
2 11	7 32.63	+15 18.9	1.168	2.084	13.5	18.7
2 21	7 28.83	+16 11.9	1.251	2.104	17.8	19.0

460532 2014 TQ_{29} 1 17.5 110°.57 0°.6/17.2 18

12 13	8 22.30	+20 34.3	1.959	2.765	14.0	21.7
12 23	8 16.85	+21 3.2	1.889	2.778	10.5	21.5
1 2	8 9.01	+21 38.2	1.842	2.790	6.6	21.3
1 12	7 59.56	+22 15.3	1.823	2.802	2.4	21.0
1 22	7 49.52	+22 50.0	1.834	2.814	2.2	21.0
2 1	7 40.04	+23 19.0	1.874	2.826	6.4	21.3
2 11	7 32.21	+23 40.3	1.942	2.837	10.2	21.6
2 21	7 26.71	+23 53.7	2.034	2.848	13.4	21.8

222538 2001 UG_{170} 1 17.5 65°.80 1°.2/17.9 18

12 13	8 21.59	+17 12.7	1.738	2.546	15.4	20.4
12 23	8 16.50	+17 11.2	1.669	2.557	11.8	20.2
1 2	8 8.87	+17 18.2	1.622	2.568	7.6	19.9
1 12	7 59.52	+17 31.4	1.601	2.578	3.1	19.7
1 22	7 49.57	+17 47.6	1.609	2.590	2.3	19.7
2 1	7 40.25	+18 4.0	1.645	2.601	6.7	20.0
2 11	7 32.71	+18 18.2	1.708	2.612	10.8	20.2
2 21	7 27.67	+18 29.1	1.794	2.623	14.3	20.5

45193 1999 XD_{165} 1 17.5 26°.97 5°.5/16.8 18

12 13	8 29.42	+34 0.2	1.197	2.031	19.3	17.1
12 23	8 23.53	+33 54.1	1.145	2.044	15.0	16.9
1 2	8 13.66	+33 38.1	1.113	2.058	10.2	16.7
1 12	8 1.23	+33 5.1	1.104	2.074	6.2	16.5
1 22	7 48.28	+32 11.6	1.121	2.090	6.3	16.5
2 1	7 36.89	+30 59.6	1.163	2.108	10.2	16.8
2 11	7 28.68	+29 35.5	1.229	2.127	14.6	17.1
2 21	7 24.35	+28 6.4	1.316	2.146	18.4	17.4

144855 2004 KF_{10} 1 17.5 308°.20 4°.4/15.3 18

12 13	8 20.61	+32 10.2	2.158	2.971	12.6	20.3
12 23	8 15.85	+32 53.3	2.067	2.956	9.8	20.1
1 2	8 8.58	+33 34.5	2.000	2.940	6.8	19.9
1 12	7 59.48	+34 8.0	1.961	2.925	4.6	19.7
1 22	7 49.55	+34 28.8	1.950	2.911	5.2	19.7
2 1	7 40.01	+34 33.9	1.968	2.896	7.9	19.8
2 11	7 32.02	+34 23.2	2.012	2.882	11.1	20.0
2 21	7 26.41	+33 58.9	2.079	2.868	14.0	20.2

162052 1996 TB_{10} 1 17.5 115°.59 0°.9/17.8 18

12 13	8 24.65	+16 52.0	1.835	2.633	15.1	20.8
12 23	8 18.64	+17 6.3	1.768	2.651	11.5	20.6
1 2	8 10.14	+17 29.6	1.724	2.668	7.3	20.3
1 12	7 59.97	+17 58.8	1.708	2.685	2.9	20.1
1 22	7 49.23	+18 29.8	1.721	2.702	2.1	20.1
2 1	7 39.16	+18 59.3	1.764	2.717	6.5	20.4
2 11	7 30.86	+19 24.7	1.834	2.732	10.4	20.7
2 21	7 25.05	+19 44.8	1.928	2.747	13.8	20.9

1409 Isko 1 17.5 84°.57 3°.3/19.0 18

12 13	8 19.38	+10 28.2	1.864	2.653	15.2	15.4
12 23	8 14.72	+10 28.7	1.786	2.659	12.0	15.2
1 2	8 7.74	+10 43.4	1.732	2.665	8.2	15.0
1 12	7 59.14	+11 11.0	1.703	2.671	4.6	14.8
1 22	7 49.90	+11 49.0	1.702	2.677	3.6	14.7
2 1	7 41.12	+12 33.5	1.730	2.683	6.7	14.9
2 11	7 33.88	+13 20.4	1.785	2.689	10.4	15.2
2 21	7 28.88	+14 5.8	1.865	2.695	13.8	15.4

18103 2000 MC_5 1 17.5 73°.06 0°.5/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 25.88	+19 47.9	1.445	2.262	17.5	17.4
12 23	8 20.12	+19 40.6	1.384	2.278	13.3	17.2
1 2	8 11.29	+19 40.2	1.345	2.294	8.4	16.9
1 12	8 0.41	+19 43.5	1.331	2.310	3.1	16.7
1 22	7 48.90	+19 46.9	1.345	2.326	2.4	16.6
2 1	7 38.33	+19 48.0	1.386	2.342	7.6	17.0
2 11	7 30.05	+19 45.6	1.453	2.358	12.2	17.3
2 21	7 24.83	+19 39.6	1.542	2.374	16.1	17.6

497995 2007 DC_{100} 1 17.5 265°.00 3°.5/15.9 17

12 13	8 24.69	+30 4.1	2.242	3.045	12.5	22.3
12 23	8 18.89	+30 36.0	2.136	3.022	9.7	22.1
1 2	8 10.52	+31 7.1	2.056	2.998	6.5	21.8
1 12	8 0.21	+31 32.0	2.004	2.973	3.9	21.6
1 22	7 48.96	+31 46.0	1.981	2.948	4.3	21.6
2 1	7 37.97	+31 46.2	1.988	2.922	7.4	21.8
2 11	7 28.48	+31 32.4	2.023	2.896	10.9	21.9
2 21	7 21.38	+31 6.7	2.081	2.869	14.0	22.1

179192 2001 TN_{162} 1 17.5 177°.87 0°.2/17.4 18

12 13	8 22.22	+20 6.7	2.158	2.958	13.0	21.2
12 23	8 16.69	+20 22.8	2.074	2.959	9.9	21.0
1 2	8 8.91	+20 44.5	2.014	2.961	6.3	20.8
1 12	7 59.56	+21 8.7	1.982	2.961	2.2	20.5
1 22	7 49.57	+21 31.8	1.981	2.961	1.9	20.5
2 1	7 40.02	+21 51.3	2.009	2.961	6.0	20.7
2 11	7 31.91	+22 5.3	2.066	2.960	9.7	21.0
2 21	7 25.96	+22 13.4	2.147	2.959	12.8	21.2

187231 2005 SR_{152} 1 17.5 76°.23 7°.2/13.9 18

12 13	8 26.52	+37 8.3	1.824	2.635	14.7	19.8
12 23	8 20.66	+38 35.9	1.773	2.653	11.7	19.7
1 2	8 11.70	+39 56.4	1.745	2.671	8.8	19.5
1 12	8 0.60	+41 0.5	1.744	2.689	7.3	19.5
1 22	7 48.75	+41 41.3	1.771	2.707	8.0	19.6
2 1	7 37.74	+41 56.0	1.824	2.724	10.3	19.7
2 11	7 28.97	+41 46.7	1.902	2.742	13.0	19.9
2 21	7 23.27	+41 18.5	2.000	2.760	15.5	20.2

232339 2002 TM_{312} 1 17.5 95°.30 1°.7/18.5 18

12 13	8 17.92	+13 3.5	2.310	3.097	12.7	20.3
12 23	8 13.20	+13 27.7	2.234	3.109	9.8	20.1
1 2	8 6.60	+14 2.4	2.182	3.120	6.5	20.0
1 12	7 58.70	+14 45.5	2.158	3.131	3.0	19.8
1 22	7 50.32	+15 33.7	2.163	3.142	2.2	19.7
2 1	7 42.32	+16 23.4	2.200	3.153	5.4	19.9
2 11	7 35.56	+17 11.4	2.264	3.164	8.7	20.2
2 21	7 30.64	+17 55.1	2.354	3.175	11.6	20.4

33443 1999 FZ_{18} 1 17.5 220°.39 1°.5/18.2 18

12 13	8 20.62	+15 8.8	2.329	3.116	12.6	19.6
12 23	8 15.38	+15 14.4	2.232	3.108	9.7	19.3
1 2	8 8.07	+15 28.4	2.159	3.099	6.4	19.1
1 12	7 59.28	+15 49.0	2.114	3.089	2.9	18.9
1 22	7 49.81	+16 13.9	2.100	3.079	2.1	18.8
2 1	7 40.63	+16 40.4	2.116	3.069	5.6	19.0
2 11	7 32.67	+17 6.1	2.161	3.058	9.2	19.2
2 21	7 26.64	+17 29.2	2.231	3.046	12.3	19.4

239296 2007 PH_{26} 1 17.5 111°.60 0°.6/17.2 18

12 13	8 25.68	+20 34.7	1.821	2.625	14.9	21.2
12 23	8 19.48	+21 3.0	1.757	2.645	11.3	21.0
1 2	8 10.71	+21 37.5	1.717	2.665	7.1	20.8
1 12	8 0.21	+22 13.7	1.705	2.684	2.5	20.6
1 22	7 49.14	+22 46.8	1.722	2.702	2.3	20.6
2 1	7 38.79	+23 13.4	1.768	2.719	6.7	20.9
2 11	7 30.31	+23 31.9	1.842	2.736	10.7	21.2
2 21	7 24.41	+23 42.2	1.940	2.753	14.0	21.4

466225 2012 TH_{121} 1 17.5 202°.01 4°.7/14.7 17

12 13	8 23.22	+36 41.2	2.806	3.599	10.5	22.0
12 23	8 17.25	+37 23.9	2.723	3.595	8.3	21.8
1 2	8 9.18	+38 1.6	2.666	3.591	6.2	21.7
1 12	7 59.66	+38 29.3	2.638	3.587	4.8	21.6
1 22	7 49.56	+38 43.2	2.640	3.582	5.3	21.6
2 1	7 39.87	+38 41.6	2.671	3.577	7.2	21.7
2 11	7 31.53	+38 25.0	2.729	3.572	9.4	21.9
2 21	7 25.20	+37 55.9	2.812	3.566	11.6	22.0

166180 2002 EH_{68} 1 17.5 249°.16 2°.3/16.6 18

12 13	8 24.50	+25 4.3	1.694	2.510	15.3	20.8
12 23	8 19.22	+25 31.8	1.608	2.502	11.7	20.5
1 2	8 10.93	+26 2.8	1.544	2.494	7.5	20.3
1 12	8 0.41	+26 31.8	1.508	2.485	3.3	20.0
1 22	7 48.90	+26 53.2	1.499	2.476	3.6	20.0
2 1	7 37.90	+27 3.5	1.519	2.467	8.0	20.2
2 11	7 28.84	+27 1.7	1.564	2.457	12.3	20.5
2 21	7 22.67	+26 49.3	1.632	2.448	16.1	20.7

328962 2010 VP_{156} 1 17.5 359°.24 11°.1/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 21.57	+40 56.8	1.244	2.082	18.5	19.6
12 23	8 18.53	+42 32.8	1.188	2.077	15.3	19.4
1 2	8 11.17	+43 57.5	1.151	2.075	12.5	19.2
1 12	8 0.61	+44 57.4	1.136	2.073	11.1	19.2
1 22	7 48.78	+45 21.8	1.144	2.074	12.0	19.2
2 1	7 38.03	+45 7.2	1.173	2.075	14.6	19.4
2 11	7 30.44	+44 18.3	1.223	2.079	17.8	19.6
2 21	7 27.05	+43 4.0	1.291	2.083	20.8	19.8

86471 2000 CX_{76} 1 17.5 253°.14 2°.6/16.6 18

12 13	8 25.90	+25 22.1	1.632	2.449	15.8	19.7
12 23	8 20.53	+25 53.2	1.540	2.435	12.1	19.4
1 2	8 11.91	+26 28.3	1.471	2.420	7.8	19.1
1 12	8 0.83	+27 1.3	1.428	2.405	3.5	18.8
1 22	7 48.55	+27 25.9	1.413	2.389	3.9	18.8
2 1	7 36.70	+27 37.8	1.426	2.373	8.5	19.0
2 11	7 26.87	+27 36.1	1.465	2.357	13.0	19.3
2 21	7 20.13	+27 22.5	1.526	2.340	17.1	19.5

111376 2001 XK_{148} 1 17.5 318°.10 3°.8/19.1 18

12 13	8 17.42	+ 9 19.5	2.372	3.146	12.8	19.5
12 23	8 12.83	+ 8 50.7	2.282	3.143	10.2	19.3
1 2	8 6.39	+ 8 32.1	2.215	3.139	7.3	19.1
1 12	7 58.67	+ 8 24.1	2.176	3.136	4.7	19.0
1 22	7 50.41	+ 8 26.3	2.165	3.133	4.0	18.9
2 1	7 42.46	+ 8 37.1	2.184	3.130	6.1	19.0
2 11	7 35.66	+ 8 54.3	2.231	3.126	9.0	19.2
2 21	7 30.63	+ 9 15.3	2.303	3.124	11.8	19.4

302506 2002 GZ_{164} 1 17.5 267°.04 1°.3/17.9 18

12 13	8 21.86	+16 15.8	1.725	2.530	15.6	21.2
12 23	8 17.14	+16 24.7	1.627	2.514	12.1	20.9
1 2	8 9.62	+16 44.5	1.552	2.498	7.9	20.6
1 12	7 59.98	+17 12.8	1.504	2.481	3.3	20.3
1 22	7 49.26	+17 45.9	1.483	2.464	2.4	20.2
2 1	7 38.84	+18 19.7	1.491	2.446	7.2	20.4
2 11	7 30.06	+18 50.8	1.525	2.429	11.8	20.7
2 21	7 23.91	+19 17.0	1.582	2.411	15.9	20.9

303980 2006 BA_{74} 1 17.5 205°.51 1°.0/17.0 18

12 13	8 24.01	+20 50.5	1.867	2.673	14.5	21.8
12 23	8 18.53	+21 29.1	1.780	2.669	11.1	21.6
1 2	8 10.35	+22 15.2	1.716	2.664	7.0	21.3
1 12	8 0.19	+23 4.2	1.680	2.659	2.6	21.0
1 22	7 49.12	+23 50.6	1.673	2.653	2.5	21.0
2 1	7 38.45	+24 29.9	1.696	2.646	7.0	21.3
2 11	7 29.46	+24 59.4	1.746	2.639	11.2	21.5
2 21	7 23.03	+25 18.6	1.820	2.631	14.8	21.7

160267 2002 SY_{18} 1 17.5 65°.96 2°.0/18.7 18

12 13	8 19.17	+11 7.0	2.069	2.854	14.0	19.6
12 23	8 14.25	+11 52.4	2.006	2.879	10.8	19.4
1 2	8 7.29	+12 51.4	1.968	2.904	7.2	19.2
1 12	7 58.98	+14 0.9	1.957	2.930	3.4	19.0
1 22	7 50.20	+15 15.9	1.976	2.955	2.4	19.0
2 1	7 41.95	+16 31.4	2.025	2.980	5.7	19.3
2 11	7 35.11	+17 42.6	2.103	3.005	9.2	19.5
2 21	7 30.30	+18 46.5	2.207	3.029	12.2	19.8

387418 2013 UN_{11} 1 17.5 45°.10 4°.9/20.1 18

12 13	8 16.89	+ 5 26.3	2.069	2.838	14.6	20.4
12 23	8 12.63	+ 5 15.1	1.991	2.844	11.8	20.2
1 2	8 6.34	+ 5 19.9	1.935	2.851	8.7	20.0
1 12	7 58.67	+ 5 40.9	1.904	2.858	5.9	19.8
1 22	7 50.44	+ 6 16.6	1.902	2.864	5.0	19.8
2 1	7 42.62	+ 7 3.7	1.928	2.871	6.9	19.9
2 11	7 36.10	+ 7 57.9	1.981	2.879	9.8	20.1
2 21	7 31.54	+ 8 54.7	2.058	2.886	12.7	20.3

260435 2004 XO_{119} 1 17.5 306°.11 1°.5/16.8 18

12 13	8 20.83	+21 18.7	1.492	2.318	16.6	20.2
12 23	8 16.79	+22 4.2	1.408	2.308	12.7	19.9
1 2	8 9.59	+22 59.7	1.346	2.298	8.0	19.6
1 12	8 0.00	+23 59.3	1.310	2.289	3.1	19.3
1 22	7 49.27	+24 56.0	1.300	2.279	3.2	19.3
2 1	7 38.97	+25 43.3	1.317	2.270	8.3	19.6
2 11	7 30.66	+26 17.7	1.360	2.261	13.2	19.8
2 21	7 25.41	+26 38.6	1.423	2.252	17.3	20.0

266663 2008 UH_{223} 1 17.5 257°.53 4°.7/15.7 18

12 13	8 25.85	+29 38.6	1.551	2.374	16.2	21.3
12 23	8 20.66	+30 30.3	1.472	2.367	12.5	21.1
1 2	8 12.05	+31 22.7	1.414	2.360	8.5	20.8
1 12	8 0.88	+32 7.6	1.382	2.352	5.1	20.6
1 22	7 48.57	+32 37.2	1.377	2.345	5.8	20.6
2 1	7 36.87	+32 47.1	1.400	2.337	9.6	20.8
2 11	7 27.44	+32 37.6	1.447	2.329	13.8	21.0
2 21	7 21.34	+32 12.1	1.515	2.321	17.5	21.3

208062 1999 UP_{20} 1 17.5 185°.28 0°.5/17.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 22.93	+20 11.6	1.818	2.626	14.8	21.1
12 23	8 17.68	+20 37.7	1.736	2.627	11.2	20.9
1 2	8 9.77	+21 11.1	1.678	2.626	7.1	20.6
1 12	7 59.97	+21 47.8	1.647	2.626	2.5	20.4
1 22	7 49.36	+22 23.0	1.645	2.625	2.3	20.3
2 1	7 39.24	+22 52.8	1.671	2.624	6.9	20.6
2 11	7 30.84	+23 14.9	1.725	2.622	11.1	20.9
2 21	7 24.99	+23 28.8	1.802	2.621	14.7	21.1

377334 2004 PE_{31} 1 17.5 134°.82 5°.3/15.9 18

12 13	8 32.66	+38 3.0	2.313	3.099	12.7	21.0
12 23	8 24.46	+38 17.7	2.243	3.110	10.1	20.9
1 2	8 13.67	+38 23.4	2.197	3.121	7.4	20.7
1 12	8 1.25	+38 14.2	2.180	3.131	5.5	20.6
1 22	7 48.41	+37 47.2	2.193	3.141	5.8	20.6
2 1	7 36.48	+37 2.2	2.236	3.150	7.9	20.8
2 11	7 26.58	+36 2.5	2.307	3.159	10.6	21.0
2 21	7 19.36	+34 52.9	2.403	3.168	13.0	21.2

462340 2008 OR_{22} 1 17.5 205°.95 0°.5/17.2 17

12 13	8 21.06	+21 11.7	2.587	3.382	11.3	22.9
12 23	8 15.56	+21 31.1	2.493	3.376	8.6	22.7
1 2	8 8.12	+21 54.7	2.424	3.370	5.4	22.5
1 12	7 59.31	+22 19.5	2.384	3.363	1.9	22.3
1 22	7 49.91	+22 42.5	2.376	3.356	1.8	22.2
2 1	7 40.81	+23 1.5	2.398	3.348	5.3	22.5
2 11	7 32.88	+23 15.0	2.450	3.339	8.6	22.7
2 21	7 26.76	+23 22.5	2.527	3.330	11.4	22.8

237302 2008 YA_{59} 1 17.5 118°.14 1°.6/16.5 18

12 13	8 18.86	+23 4.0	2.358	3.165	11.9	20.8
12 23	8 14.08	+23 54.1	2.279	3.169	8.9	20.6
1 2	8 7.26	+24 48.7	2.225	3.173	5.6	20.4
1 12	7 59.01	+25 43.5	2.200	3.177	2.3	20.2
1 22	7 50.17	+26 33.9	2.205	3.181	2.6	20.2
2 1	7 41.68	+27 16.2	2.240	3.185	6.0	20.4
2 11	7 34.48	+27 48.6	2.303	3.189	9.2	20.6
2 21	7 29.22	+28 10.6	2.391	3.193	12.0	20.8

233754 2008 TH_{18} 1 17.5 77°.89 0°.5/17.2 18

12 13	8 21.16	+21 5.5	2.115	2.920	13.1	20.4
12 23	8 15.77	+21 24.9	2.051	2.940	9.9	20.2
1 2	8 8.25	+21 48.9	2.011	2.959	6.2	20.1
1 12	7 59.33	+22 14.0	2.000	2.979	2.2	19.8
1 22	7 49.96	+22 36.9	2.018	2.998	2.0	19.8
2 1	7 41.18	+22 55.0	2.065	3.017	5.8	20.1
2 11	7 33.92	+23 7.0	2.141	3.036	9.3	20.4
2 21	7 28.80	+23 12.6	2.241	3.055	12.3	20.6

194717 2001 XE_{247} 1 17.5 230°.90 3°.5/16.1 18

12 13	8 25.11	+26 53.8	1.654	2.472	15.5	20.3
12 23	8 19.84	+27 43.5	1.572	2.467	11.9	20.1
1 2	8 11.41	+28 36.4	1.513	2.460	7.8	19.8
1 12	8 0.64	+29 25.5	1.480	2.454	4.1	19.6
1 22	7 48.80	+30 3.7	1.475	2.447	4.6	19.6
2 1	7 37.50	+30 26.2	1.498	2.440	8.7	19.8
2 11	7 28.23	+30 32.2	1.547	2.433	12.9	20.0
2 21	7 22.01	+30 23.8	1.618	2.425	16.6	20.3

417219 2005 YT_{12} 1 17.5 317°.67 1°.5/16.9 17

12 13	8 19.25	+22 41.0	1.724	2.546	14.9	21.1
12 23	8 15.22	+23 10.4	1.633	2.531	11.3	20.9
1 2	8 8.41	+23 46.0	1.565	2.516	7.2	20.6
1 12	7 59.54	+24 23.2	1.524	2.502	2.8	20.3
1 22	7 49.70	+24 56.9	1.510	2.489	2.9	20.3
2 1	7 40.22	+25 22.7	1.524	2.476	7.5	20.5
2 11	7 32.46	+25 38.4	1.564	2.463	11.9	20.7
2 21	7 27.34	+25 43.8	1.626	2.451	15.7	21.0

234198 2000 QN_{191} 1 17.5 179°.04 1°.1/16.9 18

12 13	8 25.01	+21 39.1	2.134	2.932	13.2	21.9
12 23	8 18.91	+22 17.2	2.050	2.935	10.1	21.6
1 2	8 10.40	+23 0.9	1.990	2.936	6.3	21.4
1 12	8 0.18	+23 45.7	1.959	2.937	2.4	21.2
1 22	7 49.22	+24 26.9	1.958	2.937	2.4	21.2
2 1	7 38.67	+25 0.8	1.988	2.936	6.4	21.4
2 11	7 29.65	+25 25.4	2.046	2.934	10.1	21.6
2 21	7 22.93	+25 40.6	2.129	2.931	13.3	21.8

55551 2001 XZ_{88} 1 17.5 251°.50 2°.9/15.9 18

12 13	8 20.10	+28 42.9	2.440	3.247	11.5	19.7
12 23	8 15.04	+29 17.2	2.355	3.243	8.8	19.5
1 2	8 7.88	+29 51.4	2.295	3.239	5.8	19.3
1 12	7 59.25	+30 20.9	2.264	3.235	3.2	19.1
1 22	7 50.01	+30 42.1	2.262	3.231	3.6	19.2
2 1	7 41.15	+30 52.5	2.290	3.227	6.4	19.3
2 11	7 33.62	+30 51.6	2.346	3.223	9.4	19.5
2 21	7 28.11	+30 40.6	2.426	3.219	12.1	19.7

485145 2010 OK_{101} 1 17.5 185°.06 1°.1/17.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 26.25	+23 53.0	2.287	3.082	12.6	22.1
12 23	8 19.65	+24 2.0	2.199	3.082	9.6	21.9
1 2	8 10.76	+24 12.7	2.136	3.082	6.0	21.7
1 12	8 0.28	+24 21.6	2.103	3.081	2.3	21.4
1 22	7 49.17	+24 25.9	2.100	3.079	2.3	21.4
2 1	7 38.53	+24 23.5	2.128	3.076	6.0	21.7
2 11	7 29.40	+24 14.3	2.185	3.072	9.6	21.9
2 21	7 22.48	+23 59.0	2.268	3.068	12.6	22.1

473622 2015 XJ_{289} 1 17.5 7°.48 0°.6/17.7 18

12 13	8 18.84	+17 53.0	1.229	2.065	18.8	21.2
12 23	8 15.51	+18 6.6	1.161	2.065	14.4	20.9
1 2	8 8.82	+18 32.9	1.114	2.067	9.2	20.6
1 12	7 59.71	+19 7.8	1.090	2.069	3.5	20.3
1 22	7 49.63	+19 45.8	1.091	2.073	2.7	20.3
2 1	7 40.28	+20 21.3	1.117	2.077	8.4	20.6
2 11	7 33.25	+20 50.4	1.167	2.082	13.6	20.9
2 21	7 29.49	+21 11.0	1.237	2.089	18.0	21.2

231141 2005 TJ_{141} 1 17.5 328°.48 0°.9/17.8 18

12 13	8 20.57	+16 56.9	1.272	2.101	18.7	20.7
12 23	8 16.89	+17 14.8	1.194	2.094	14.4	20.4
1 2	8 9.80	+17 46.9	1.137	2.088	9.3	20.1
1 12	8 0.12	+18 29.5	1.103	2.081	3.6	19.7
1 22	7 49.26	+19 16.8	1.094	2.076	2.7	19.7
2 1	7 38.95	+20 2.6	1.111	2.070	8.5	20.0
2 11	7 30.90	+20 42.0	1.153	2.066	13.9	20.3
2 21	7 26.18	+21 12.5	1.214	2.061	18.5	20.5

5592 Oshima 1 17.5 141°.33 3°.2/19.2 18

12 13	8 17.56	+ 9 44.8	2.561	3.332	12.0	17.3
12 23	8 12.78	+ 9 30.4	2.476	3.336	9.5	17.1
1 2	8 6.29	+ 9 25.9	2.415	3.340	6.7	16.9
1 12	7 58.65	+ 9 31.2	2.381	3.344	4.1	16.8
1 22	7 50.54	+ 9 45.1	2.377	3.347	3.4	16.7
2 1	7 42.77	+10 5.7	2.404	3.351	5.5	16.9
2 11	7 36.07	+10 30.6	2.459	3.354	8.3	17.1
2 21	7 31.01	+10 57.5	2.539	3.357	10.9	17.2

22105 Pirko 1 17.5 101°.63 3°.7/15.9 18

12 13	8 27.29	+26 57.3	1.678	2.492	15.6	18.4
12 23	8 21.10	+28 2.6	1.621	2.513	11.8	18.2
1 2	8 11.94	+29 9.8	1.587	2.534	7.6	18.0
1 12	8 0.75	+30 10.9	1.581	2.554	4.1	17.8
1 22	7 48.87	+30 58.9	1.603	2.573	4.7	17.9
2 1	7 37.83	+31 29.7	1.654	2.592	8.4	18.1
2 11	7 28.95	+31 43.1	1.731	2.611	12.1	18.4
2 21	7 23.04	+31 41.7	1.831	2.629	15.3	18.7

46517 1978 VM_{7} 1 17.5 124°.81 2°.5/18.7 18

12 13	8 23.42	+12 21.9	2.230	3.006	13.4	20.1
12 23	8 17.30	+12 16.4	2.158	3.025	10.4	19.9
1 2	8 9.15	+12 20.8	2.111	3.044	7.0	19.8
1 12	7 59.67	+12 33.8	2.092	3.062	3.7	19.6
1 22	7 49.75	+12 53.3	2.104	3.079	2.9	19.6
2 1	7 40.36	+13 16.9	2.146	3.096	5.8	19.8
2 11	7 32.38	+13 42.0	2.217	3.112	9.1	20.0
2 21	7 26.42	+14 6.4	2.313	3.127	12.0	20.2

132220 2002 EM_{66} 1 17.5 228°.73 0°.1/17.4 18

12 13	8 23.64	+19 43.6	1.901	2.704	14.4	21.2
12 23	8 18.22	+20 0.9	1.807	2.695	11.0	20.9
1 2	8 10.17	+20 25.2	1.738	2.685	7.0	20.7
1 12	8 0.17	+20 53.2	1.696	2.674	2.5	20.4
1 22	7 49.27	+21 20.8	1.682	2.663	2.2	20.3
2 1	7 38.73	+21 44.5	1.699	2.652	6.8	20.6
2 11	7 29.80	+22 2.0	1.743	2.640	11.0	20.8
2 21	7 23.36	+22 12.7	1.810	2.627	14.7	21.0

167916 2005 ER_{108} 1 17.5 325°.50 5°.1/20.0 18

12 13	8 16.87	+ 5 22.7	2.102	2.869	14.4	19.9
12 23	8 12.69	+ 5 5.2	2.014	2.866	11.7	19.7
1 2	8 6.45	+ 5 3.1	1.948	2.862	8.8	19.5
1 12	7 58.77	+ 5 17.2	1.907	2.859	6.1	19.4
1 22	7 50.45	+ 5 46.3	1.895	2.856	5.2	19.3
2 1	7 42.46	+ 6 27.9	1.911	2.853	7.0	19.4
2 11	7 35.72	+ 7 17.8	1.954	2.850	10.0	19.6
2 21	7 30.92	+ 8 11.5	2.021	2.848	13.0	19.8

36712 2000 RS_{33} 1 17.5 17°.02 5°.0/19.2 18

12 13	8 19.87	+ 9 32.1	1.373	2.180	18.8	17.8
12 23	8 15.87	+ 9 9.0	1.301	2.182	15.0	17.6
1 2	8 8.87	+ 9 3.9	1.249	2.184	10.6	17.4
1 12	7 59.71	+ 9 17.3	1.221	2.187	6.4	17.1
1 22	7 49.68	+ 9 47.0	1.218	2.191	5.2	17.1
2 1	7 40.26	+10 28.9	1.241	2.195	8.6	17.3
2 11	7 32.87	+11 17.2	1.289	2.199	12.9	17.5
2 21	7 28.41	+12 6.5	1.358	2.204	17.0	17.8

473476 2015 XS_{72} 1 17.5 198°.16 3°.6/19.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 21.90	+10 7.8	1.756	2.543	16.1	21.6
12 23	8 16.91	+10 8.1	1.670	2.542	12.7	21.4
1 2	8 9.33	+10 23.7	1.607	2.540	8.8	21.2
1 12	7 59.86	+10 54.0	1.569	2.537	5.0	20.9
1 22	7 49.55	+11 35.9	1.559	2.534	3.9	20.8
2 1	7 39.65	+12 25.4	1.578	2.531	7.2	21.0
2 11	7 31.37	+13 17.8	1.624	2.527	11.3	21.3
2 21	7 25.58	+14 8.7	1.694	2.523	15.0	21.5

351695 2006 BE_{86} 1 17.5 20°.20 2°.4/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.50	+25 16.9	1.053	1.903	20.2	20.3
12 23	8 18.72	+25 24.7	0.998	1.910	15.4	20.0
1 2	8 10.97	+25 35.5	0.963	1.918	9.8	19.8
1 12	8 0.49	+25 42.7	0.949	1.928	4.0	19.5
1 22	7 49.12	+25 40.8	0.960	1.939	4.1	19.5
2 1	7 38.94	+25 27.1	0.995	1.951	9.7	19.9
2 11	7 31.71	+25 2.5	1.052	1.965	14.9	20.2
2 21	7 28.30	+24 29.9	1.128	1.979	19.4	20.5

253014 2002 RC_{125} 1 17.5 87°.98 1°.7/18.2 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.07	+15 31.5	1.837	2.631	15.2	21.2
12 23	8 18.82	+15 31.5	1.780	2.659	11.6	21.0
1 2	8 10.19	+15 40.8	1.745	2.687	7.5	20.8
1 12	8 0.05	+15 57.0	1.739	2.714	3.3	20.6
1 22	7 49.49	+16 17.1	1.761	2.741	2.4	20.6
2 1	7 39.70	+16 38.2	1.813	2.767	6.3	20.9
2 11	7 31.70	+16 57.9	1.893	2.792	10.1	21.2
2 21	7 26.14	+17 14.7	1.997	2.817	13.4	21.4

382608 2002 LW_{22} 1 17.5 173°.21 2°.7/15.8 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.35	+28 16.3	2.801	3.599	10.4	21.7
12 23	8 15.72	+29 4.3	2.719	3.603	7.9	21.5
1 2	8 8.20	+29 52.5	2.663	3.605	5.2	21.3
1 12	7 59.37	+30 36.8	2.637	3.607	3.0	21.2
1 22	7 49.99	+31 13.2	2.642	3.609	3.4	21.2
2 1	7 40.93	+31 39.2	2.678	3.610	5.9	21.4
2 11	7 33.04	+31 53.9	2.742	3.611	8.5	21.6
2 21	7 26.94	+31 58.2	2.832	3.611	10.9	21.7

30153 Ostrander 1 17.5 171°.88 3°.7/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 27.17	+28 5.3	1.778	2.589	14.9	19.9
12 23	8 21.12	+28 55.5	1.702	2.592	11.4	19.7
1 2	8 12.06	+29 46.9	1.650	2.595	7.5	19.5
1 12	8 0.86	+30 32.4	1.625	2.597	4.2	19.3
1 22	7 48.77	+31 5.6	1.629	2.598	4.7	19.3
2 1	7 37.30	+31 22.7	1.661	2.599	8.3	19.6
2 11	7 27.85	+31 23.5	1.720	2.599	12.2	19.8
2 21	7 21.32	+31 10.6	1.802	2.599	15.5	20.0

210031 2006 MP_{14} 1 17.5 218°.17 0°.9/17.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.46	+22 10.4	1.939	2.744	14.1	21.5
12 23	8 18.78	+22 25.6	1.849	2.738	10.8	21.3
1 2	8 10.48	+22 45.3	1.783	2.731	6.8	21.0
1 12	8 0.28	+23 5.7	1.744	2.723	2.5	20.8
1 22	7 49.24	+23 22.8	1.735	2.715	2.4	20.7
2 1	7 38.63	+23 33.7	1.755	2.706	6.8	21.0
2 11	7 29.67	+23 37.1	1.803	2.697	10.9	21.2
2 21	7 23.22	+23 33.5	1.875	2.688	14.4	21.4

95400 2002 CC_{199} 1 17.5 148°.10 0°.3/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.34	+18 6.3	2.148	2.947	13.1	20.7
12 23	8 15.29	+18 31.6	2.067	2.952	10.0	20.5
1 2	8 8.08	+19 4.6	2.010	2.956	6.3	20.3
1 12	7 59.36	+19 42.0	1.982	2.960	2.3	20.0
1 22	7 50.02	+20 20.3	1.983	2.964	1.8	20.0
2 1	7 41.10	+20 55.9	2.014	2.967	5.8	20.2
2 11	7 33.57	+21 26.4	2.073	2.971	9.5	20.5
2 21	7 28.12	+21 50.4	2.157	2.974	12.6	20.7

19633 Rusjan 1 17.5 131°.65 5°.6/20.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.03	+ 2 44.8	2.146	2.890	14.9	18.8
12 23	8 16.36	+ 2 36.6	2.072	2.907	12.2	18.6
1 2	8 8.64	+ 2 45.8	2.020	2.923	9.2	18.5
1 12	7 59.53	+ 3 12.8	1.995	2.938	6.5	18.3
1 22	7 49.92	+ 3 55.9	1.998	2.953	5.6	18.3
2 1	7 40.76	+ 4 51.5	2.031	2.967	7.2	18.4
2 11	7 32.99	+ 5 54.9	2.092	2.980	9.9	18.6
2 21	7 27.23	+ 7 1.1	2.178	2.992	12.6	18.8

262311 2006 TR_{13} 1 17.5 4°.73 2°.1/18.4 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 13.48	+13 46.3	1.114	1.956	19.9	19.3
12 23	8 11.65	+14 10.6	1.050	1.955	15.4	19.0
1 2	8 6.50	+14 55.2	1.005	1.956	10.1	18.7
1 12	7 58.94	+15 56.6	0.982	1.959	4.5	18.4
1 22	7 50.37	+17 7.9	0.983	1.964	3.1	18.3
2 1	7 42.51	+18 20.7	1.008	1.970	8.5	18.7
2 11	7 36.93	+19 27.4	1.056	1.979	13.9	19.0
2 21	7 34.61	+20 23.1	1.124	1.989	18.4	19.3

190100 2004 TS_{260} 1 17.5 108°.78 0°.4/17.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 20.03	+18 19.8	2.016	2.820	13.7	20.3
12 23	8 15.20	+18 36.5	1.935	2.823	10.4	20.1
1 2	8 8.09	+19 0.7	1.878	2.825	6.6	19.8
1 12	7 59.39	+19 29.6	1.848	2.827	2.5	19.6
1 22	7 50.04	+19 59.6	1.848	2.829	1.9	19.5
2 1	7 41.13	+20 27.4	1.876	2.831	6.1	19.8
2 11	7 33.69	+20 50.7	1.933	2.833	9.9	20.0
2 21	7 28.45	+21 8.3	2.013	2.835	13.2	20.3

350597 2001 QB_{295} 1 17.5 24°.34 10°.5/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 29.39	+40 21.3	1.012	1.854	21.5	19.0
12 23	8 24.66	+41 9.8	0.970	1.866	17.4	18.8
1 2	8 14.95	+41 41.7	0.945	1.878	13.4	18.6
1 12	8 1.93	+41 43.8	0.941	1.892	10.7	18.5
1 22	7 48.14	+41 8.7	0.959	1.908	11.1	18.6
2 1	7 36.31	+39 58.0	1.000	1.925	14.0	18.8
2 11	7 28.40	+38 21.3	1.061	1.943	17.7	19.1
2 21	7 25.11	+36 30.4	1.140	1.962	21.2	19.4

97822 2000 OG_{53} 1 17.5 185°.07 0°.2/17.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 27.35	+21 31.3	2.077	2.872	13.7	20.4
12 23	8 20.68	+21 29.3	1.990	2.872	10.4	20.1
1 2	8 11.52	+21 30.6	1.927	2.872	6.6	19.9
1 12	8 0.63	+21 32.3	1.892	2.871	2.4	19.6
1 22	7 49.04	+21 31.5	1.888	2.869	2.0	19.6
2 1	7 37.98	+21 26.5	1.915	2.866	6.3	19.9
2 11	7 28.55	+21 16.8	1.970	2.862	10.2	20.1
2 21	7 21.53	+21 3.0	2.051	2.858	13.5	20.3

276359 2002 UW_{72} 1 17.5 139°.58 3°.1/18.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.04	+12 33.5	1.608	2.403	17.0	21.1
12 23	8 19.37	+12 25.7	1.535	2.412	13.3	20.9
1 2	8 10.89	+12 31.3	1.483	2.421	9.0	20.7
1 12	8 0.43	+12 49.1	1.457	2.429	4.6	20.4
1 22	7 49.21	+13 16.1	1.459	2.436	3.5	20.4
2 1	7 38.63	+13 48.4	1.490	2.443	7.4	20.6
2 11	7 29.98	+14 22.3	1.547	2.450	11.7	20.9
2 21	7 24.08	+14 54.6	1.627	2.456	15.5	21.2

500783 2013 EA_{30} 1 17.5 272°.85 2°.1/15.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.90	+27 27.2	3.199	4.002	9.1	21.1
12 23	8 11.48	+28 5.4	3.106	3.992	6.9	21.0
1 2	8 5.49	+28 44.4	3.039	3.983	4.5	20.8
1 12	7 58.41	+29 20.9	3.001	3.974	2.4	20.6
1 22	7 50.85	+29 52.1	2.994	3.964	2.8	20.7
2 1	7 43.49	+30 15.7	3.018	3.954	5.1	20.8
2 11	7 37.04	+30 30.7	3.070	3.945	7.5	21.0
2 21	7 32.03	+30 37.2	3.148	3.935	9.8	21.1

274407 2008 RN_{134} 1 17.5 84°.66 1°.1/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.90	+22 39.8	2.095	2.901	13.2	20.9
12 23	8 16.41	+23 6.0	2.031	2.920	9.9	20.7
1 2	8 8.72	+23 35.9	1.991	2.939	6.2	20.5
1 12	7 59.58	+24 5.4	1.979	2.957	2.3	20.3
1 22	7 49.95	+24 30.9	1.996	2.975	2.4	20.3
2 1	7 40.93	+24 49.6	2.044	2.993	6.1	20.6
2 11	7 33.46	+25 0.4	2.119	3.011	9.6	20.9
2 21	7 28.20	+25 3.5	2.219	3.029	12.5	21.1

368589 2004 RD_{29} 1 17.5 208°.76 5°.1/15.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 34.40	+39 7.4	2.732	3.505	11.3	21.2
12 23	8 25.68	+39 24.1	2.639	3.497	9.1	21.0
1 2	8 14.50	+39 31.9	2.571	3.488	6.8	20.9
1 12	8 1.66	+39 25.5	2.533	3.479	5.2	20.8
1 22	7 48.25	+39 1.4	2.527	3.469	5.5	20.8
2 1	7 35.49	+38 19.0	2.552	3.458	7.5	20.9
2 11	7 24.47	+37 20.8	2.606	3.446	9.9	21.0
2 21	7 15.93	+36 11.3	2.686	3.433	12.2	21.2

186206 2001 WL_{25} 1 17.5 74°.98 1°.4/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.37	+22 49.8	1.776	2.591	14.8	20.7
12 23	8 17.23	+23 20.0	1.707	2.601	11.2	20.5
1 2	8 9.46	+23 54.9	1.662	2.612	7.0	20.3
1 12	7 59.90	+24 29.7	1.644	2.623	2.7	20.1
1 22	7 49.68	+24 59.7	1.655	2.633	2.8	20.1
2 1	7 40.10	+25 21.3	1.694	2.644	7.0	20.4
2 11	7 32.34	+25 33.2	1.759	2.655	11.0	20.6
2 21	7 27.16	+25 35.8	1.848	2.666	14.4	20.9

327854 2006 XK_{54} 1 17.5 7°.13 7°.5/18.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.72	+ 9 10.1	1.259	2.071	19.8	19.5
12 23	8 15.90	+ 7 33.0	1.192	2.072	16.1	19.2
1 2	8 8.93	+ 6 10.1	1.145	2.074	12.0	19.0
1 12	7 59.77	+ 5 6.3	1.121	2.078	8.5	18.8
1 22	7 49.77	+ 4 24.5	1.121	2.083	7.7	18.8
2 1	7 40.52	+ 4 5.1	1.146	2.090	10.4	19.0
2 11	7 33.46	+ 4 5.0	1.194	2.098	14.3	19.2
2 21	7 29.45	+ 4 18.5	1.261	2.107	18.0	19.5

136831 1997 TA_1 1 17.5 65°.62 1°.9/18.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 23.46	+14 27.0	1.616	2.419	16.6	19.5
12 23	8 17.89	+14 37.4	1.564	2.448	12.7	19.4
1 2	8 9.75	+14 59.9	1.534	2.477	8.2	19.2
1 12	7 59.94	+15 31.5	1.530	2.506	3.7	19.0
1 22	7 49.69	+16 8.0	1.554	2.534	2.6	19.0
2 1	7 40.28	+16 45.3	1.607	2.563	6.8	19.3
2 11	7 32.81	+17 19.9	1.687	2.591	10.8	19.6
2 21	7 27.95	+17 49.6	1.789	2.619	14.3	19.9

31719 Davidyue 1 17.5 300°.38 1°.5/18.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.47	+15 55.8	1.759	2.567	15.2	18.4
12 23	8 15.26	+15 59.0	1.664	2.552	11.8	18.2
1 2	8 8.42	+16 12.7	1.591	2.537	7.8	17.9
1 12	7 59.61	+16 35.0	1.545	2.521	3.3	17.6
1 22	7 49.85	+17 2.6	1.526	2.507	2.5	17.5
2 1	7 40.41	+17 32.0	1.535	2.492	6.9	17.7
2 11	7 32.54	+17 59.9	1.571	2.477	11.4	18.0
2 21	7 27.15	+18 24.0	1.630	2.463	15.3	18.2

68659 2002 CH_{91} 1 17.5 187°.70 1°.5/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.00	+23 10.7	1.990	2.794	13.8	20.4
12 23	8 19.11	+23 41.2	1.906	2.794	10.5	20.2
1 2	8 10.66	+24 16.0	1.846	2.793	6.7	20.0
1 12	8 0.36	+24 50.5	1.814	2.792	2.6	19.7
1 22	7 49.28	+25 20.0	1.811	2.789	2.7	19.7
2 1	7 38.66	+25 41.1	1.839	2.787	6.8	20.0
2 11	7 29.70	+25 52.5	1.894	2.783	10.7	20.2
2 21	7 23.21	+25 54.7	1.973	2.779	14.0	20.4

118197 1994 UU_6 1 17.5 29°.90 4°.5/16.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.43	+27 33.2	0.889	1.750	22.1	18.1
12 23	8 19.69	+28 10.8	0.856	1.772	16.7	17.9
1 2	8 11.59	+28 48.7	0.840	1.796	10.7	17.7
1 12	8 0.69	+29 17.1	0.845	1.821	5.4	17.5
1 22	7 49.19	+29 28.2	0.873	1.848	5.8	17.6
2 1	7 39.38	+29 19.6	0.924	1.877	10.9	18.0
2 11	7 32.96	+28 53.9	0.996	1.907	15.8	18.4
2 21	7 30.62	+28 16.2	1.086	1.937	20.0	18.7

183761 2004 AZ_{13} 1 17.5 357°.32 0°.3/17.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.62	+18 37.4	1.632	2.448	15.8	20.7
12 23	8 16.24	+19 18.5	1.553	2.448	12.1	20.4
1 2	8 9.06	+20 10.7	1.498	2.447	7.6	20.2
1 12	7 59.83	+21 9.0	1.468	2.447	2.7	19.9
1 22	7 49.71	+22 7.4	1.466	2.447	2.4	19.8
2 1	7 40.08	+23 0.2	1.492	2.447	7.3	20.1
2 11	7 32.26	+23 43.7	1.545	2.447	11.8	20.4
2 21	7 27.14	+24 16.2	1.620	2.448	15.6	20.6

142178 2002 RW_{41} 1 17.5 82°.12 2°.2/16.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.56	+24 34.2	1.673	2.489	15.5	20.3
12 23	8 19.00	+25 7.1	1.610	2.504	11.7	20.1
1 2	8 10.62	+25 43.3	1.570	2.519	7.4	19.9
1 12	8 0.32	+26 17.0	1.557	2.534	3.1	19.7
1 22	7 49.39	+26 43.1	1.572	2.549	3.4	19.7
2 1	7 39.22	+26 58.3	1.615	2.564	7.5	20.0
2 11	7 31.09	+27 2.0	1.685	2.578	11.6	20.3
2 21	7 25.75	+26 55.5	1.777	2.592	15.0	20.6

7851 Azumino 1 17.5 186°.34 0°.0/17.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 27.11	+20 14.0	1.762	2.564	15.4	17.5
12 23	8 20.93	+20 20.2	1.678	2.565	11.8	17.3
1 2	8 11.91	+20 32.4	1.618	2.564	7.5	17.0
1 12	8 0.84	+20 47.1	1.584	2.563	2.7	16.7
1 22	7 48.92	+21 0.5	1.580	2.561	2.2	16.7
2 1	7 37.57	+21 9.8	1.605	2.558	7.1	17.0
2 11	7 28.09	+21 13.5	1.658	2.555	11.5	17.2
2 21	7 21.37	+21 11.7	1.734	2.551	15.2	17.5

323886 2005 SO_{242} 1 17.5 246°.79 6°.0/19.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.70	+ 3 58.7	2.100	2.856	14.8	21.0
12 23	8 14.92	+ 3 24.5	2.002	2.844	12.2	20.8
1 2	8 7.96	+ 3 5.6	1.926	2.833	9.4	20.6
1 12	7 59.40	+ 3 3.5	1.876	2.820	6.9	20.4
1 22	7 50.08	+ 3 18.5	1.854	2.808	6.1	20.4
2 1	7 41.00	+ 3 48.8	1.860	2.795	7.8	20.4
2 11	7 33.19	+ 4 30.6	1.893	2.782	10.7	20.6
2 21	7 27.39	+ 5 19.6	1.950	2.768	13.7	20.7

468890 2013 WJ_{97} 1 17.5 29°.38 4°.4/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.34	+30 55.8	2.073	2.889	12.9	20.4
12 23	8 15.65	+31 58.8	2.003	2.893	10.0	20.3
1 2	8 8.48	+33 1.0	1.956	2.898	6.8	20.1
1 12	7 59.58	+33 55.8	1.938	2.903	4.6	19.9
1 22	7 49.97	+34 37.7	1.948	2.908	5.2	20.0
2 1	7 40.86	+35 3.1	1.986	2.913	8.0	20.2
2 11	7 33.37	+35 11.6	2.051	2.919	11.0	20.4
2 21	7 28.27	+35 5.4	2.138	2.924	13.8	20.6

381277 2007 TP_{290} 1 17.5 94°.18 7°.4/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 25.79	+42 8.6	2.357	3.148	12.4	20.9
12 23	8 19.77	+43 29.6	2.302	3.162	10.2	20.8
1 2	8 11.07	+44 41.4	2.271	3.175	8.3	20.7
1 12	8 0.51	+45 36.6	2.268	3.188	7.4	20.6
1 22	7 49.24	+46 9.7	2.292	3.202	7.9	20.7
2 1	7 38.60	+46 18.7	2.343	3.215	9.6	20.8
2 11	7 29.81	+46 5.6	2.419	3.228	11.6	21.0
2 21	7 23.65	+45 34.6	2.517	3.240	13.5	21.1

262572 2006 VH_{49} 1 17.5 106°.11 0°.3/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.06	+19 17.4	1.864	2.669	14.6	20.8
12 23	8 17.57	+19 24.3	1.792	2.679	11.1	20.6
1 2	8 9.61	+19 37.8	1.743	2.689	7.0	20.4
1 12	7 59.96	+19 54.7	1.721	2.699	2.6	20.1
1 22	7 49.70	+20 11.7	1.728	2.709	2.0	20.1
2 1	7 40.05	+20 26.0	1.765	2.719	6.4	20.4
2 11	7 32.11	+20 36.0	1.828	2.728	10.4	20.7
2 21	7 26.60	+20 41.1	1.916	2.737	13.8	20.9

162800 2000 YT_{82} 1 17.5 70°.95 1°.7/18.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.88	+15 12.0	1.475	2.285	17.5	19.8
12 23	8 18.55	+15 21.2	1.418	2.306	13.4	19.5
1 2	8 10.35	+15 43.0	1.382	2.327	8.7	19.3
1 12	8 0.23	+16 14.2	1.371	2.348	3.7	19.1
1 22	7 49.52	+16 50.2	1.388	2.369	2.7	19.1
2 1	7 39.65	+17 26.6	1.433	2.390	7.3	19.4
2 11	7 31.90	+17 59.7	1.504	2.410	11.7	19.7
2 21	7 27.01	+18 27.4	1.597	2.431	15.5	20.0

375364 2008 SR_{121} 1 17.5 49°.89 1°.2/17.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.56	+22 45.5	1.918	2.732	13.9	21.3
12 23	8 15.68	+23 7.6	1.849	2.742	10.5	21.1
1 2	8 8.41	+23 33.8	1.803	2.753	6.6	20.9
1 12	7 59.53	+24 0.0	1.785	2.764	2.5	20.6
1 22	7 50.07	+24 22.3	1.795	2.775	2.5	20.7
2 1	7 41.20	+24 37.9	1.835	2.786	6.5	20.9
2 11	7 33.97	+24 45.4	1.901	2.798	10.3	21.2
2 21	7 29.09	+24 45.3	1.991	2.809	13.5	21.4

363619 2004 OQ_{10} 1 17.5 117°.35 6°.8/21.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.87	− 2 32.5	2.612	3.317	13.4	21.7
12 23	8 15.11	− 3 13.9	2.542	3.340	11.3	21.5
1 2	8 7.70	− 3 39.1	2.495	3.362	9.2	21.4
1 12	7 59.21	− 3 46.2	2.475	3.383	7.5	21.4
1 22	7 50.35	− 3 35.3	2.482	3.404	6.8	21.3
2 1	7 41.91	− 3 8.1	2.519	3.424	7.6	21.4
2 11	7 34.60	− 2 28.1	2.583	3.443	9.3	21.6
2 21	7 28.94	− 1 39.4	2.672	3.462	11.2	21.7

270752 2002 RG_{59} 1 17.5 120°.27 0°.7/17.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 27.62	+18 12.0	1.585	2.390	16.8	21.1
12 23	8 21.33	+18 16.1	1.519	2.406	12.8	20.9
1 2	8 12.10	+18 28.8	1.475	2.421	8.2	20.6
1 12	8 0.89	+18 46.4	1.457	2.435	3.1	20.4
1 22	7 49.00	+19 5.2	1.468	2.449	2.3	20.3
2 1	7 37.92	+19 21.8	1.508	2.463	7.2	20.7
2 11	7 28.97	+19 34.2	1.575	2.475	11.7	21.0
2 21	7 22.92	+19 41.8	1.664	2.487	15.5	21.2

45417 2000 AZ_{151} 1 17.5 57°.98 1°.6/18.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.27	+14 43.9	1.493	2.306	17.2	18.3
12 23	8 16.72	+15 4.0	1.427	2.317	13.3	18.1
1 2	8 9.32	+15 38.0	1.383	2.329	8.6	17.8
1 12	7 59.92	+16 22.7	1.364	2.340	3.7	17.6
1 22	7 49.79	+17 12.8	1.372	2.352	2.6	17.5
2 1	7 40.33	+18 3.0	1.407	2.365	7.3	17.8
2 11	7 32.86	+18 48.8	1.469	2.377	11.8	18.1
2 21	7 28.19	+19 27.5	1.552	2.389	15.7	18.4

471158 2010 GQ_{110} 1 17.5 278°.54 7°.4/21.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.18	− 2 33.6	2.354	3.077	14.3	21.7
12 23	8 12.04	− 3 4.7	2.258	3.067	12.2	21.5
1 2	8 6.04	− 3 17.6	2.183	3.057	10.0	21.4
1 12	7 58.70	− 3 10.2	2.132	3.047	8.1	21.2
1 22	7 50.74	− 2 42.1	2.109	3.037	7.4	21.2
2 1	7 43.01	− 1 55.1	2.112	3.028	8.3	21.2
2 11	7 36.34	− 0 53.3	2.143	3.018	10.3	21.3
2 21	7 31.39	+ 0 18.1	2.198	3.008	12.7	21.5

495686 2016 BY_{57} 1 17.5 63°.44 2°.5/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.10	+24 32.6	1.754	2.572	14.8	21.8
12 23	8 17.28	+25 20.9	1.678	2.574	11.2	21.6
1 2	8 9.67	+26 14.0	1.626	2.575	7.2	21.3
1 12	8 0.07	+27 5.8	1.600	2.576	3.3	21.1
1 22	7 49.64	+27 50.3	1.602	2.578	3.7	21.1
2 1	7 39.73	+28 22.8	1.633	2.579	7.7	21.4
2 11	7 31.65	+28 41.7	1.690	2.581	11.7	21.6
2 21	7 26.25	+28 47.9	1.770	2.582	15.2	21.8

295129 2008 FK_{27} 1 17.5 284°.47 0°.4/17.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 21.15	+19 0.7	1.806	2.616	14.8	21.0
12 23	8 16.46	+19 7.9	1.716	2.606	11.4	20.8
1 2	8 9.14	+19 22.6	1.648	2.596	7.3	20.5
1 12	7 59.89	+19 41.8	1.607	2.586	2.7	20.2
1 22	7 49.77	+20 2.2	1.595	2.576	2.1	20.1
2 1	7 40.04	+20 20.5	1.611	2.566	6.8	20.4
2 11	7 31.94	+20 34.3	1.653	2.556	11.1	20.6
2 21	7 26.35	+20 42.9	1.719	2.546	14.9	20.8

104055 2000 EQ_{17} 1 17.5 20°.72 2°.3/16.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.54	+20 58.7	1.125	1.973	19.3	17.9
12 23	8 14.78	+22 10.1	1.072	1.984	14.6	17.7
1 2	8 8.49	+23 33.9	1.039	1.996	9.1	17.4
1 12	7 59.70	+25 0.8	1.030	2.009	3.6	17.1
1 22	7 49.98	+26 20.4	1.046	2.024	4.1	17.2
2 1	7 41.18	+27 24.3	1.086	2.040	9.4	17.5
2 11	7 34.90	+28 8.8	1.149	2.058	14.3	17.9
2 21	7 32.06	+28 34.1	1.232	2.077	18.5	18.2

457779 2009 OE_{21} 1 17.5 156°.85 2°.0/16.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 26.50	+27 6.2	2.300	3.098	12.4	21.4
12 23	8 19.81	+27 12.7	2.221	3.104	9.4	21.2
1 2	8 10.87	+27 18.2	2.166	3.111	6.1	21.0
1 12	8 0.41	+27 19.0	2.141	3.116	2.7	20.8
1 22	7 49.44	+27 12.5	2.146	3.122	2.9	20.8
2 1	7 39.04	+26 57.2	2.182	3.126	6.2	21.0
2 11	7 30.23	+26 33.8	2.247	3.131	9.5	21.3
2 21	7 23.66	+26 4.1	2.337	3.134	12.4	21.5

289597 2005 GT_{5} 1 17.5 284°.82 0°.6/17.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.82	+17 27.8	1.663	2.476	15.7	20.9
12 23	8 16.50	+17 48.3	1.570	2.461	12.2	20.7
1 2	8 9.34	+18 20.0	1.499	2.447	7.8	20.4
1 12	8 0.03	+18 59.4	1.454	2.433	3.0	20.1
1 22	7 49.65	+19 42.1	1.437	2.419	2.3	20.0
2 1	7 39.59	+20 23.2	1.448	2.404	7.3	20.2
2 11	7 31.24	+20 58.9	1.485	2.390	12.0	20.5
2 21	7 25.59	+21 27.1	1.545	2.376	16.1	20.7

210358 2007 UN_{48} 1 17.5 81°.85 0°.1/17.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.12	+19 2.4	1.630	2.444	15.9	20.8
12 23	8 17.33	+19 27.6	1.554	2.447	12.1	20.5
1 2	8 9.72	+20 2.0	1.501	2.450	7.7	20.3
1 12	8 0.10	+20 41.5	1.473	2.452	2.8	20.0
1 22	7 49.65	+21 21.0	1.474	2.455	2.3	20.0
2 1	7 39.77	+21 55.9	1.503	2.458	7.2	20.3
2 11	7 31.76	+22 23.3	1.558	2.461	11.7	20.5
2 21	7 26.48	+22 42.3	1.636	2.464	15.5	20.8

200319 2000 FE_{20} 1 17.5 315°.10 2°.9/19.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.72	+10 5.6	2.021	2.809	14.2	19.7
12 23	8 12.79	+10 26.0	1.928	2.800	11.2	19.5
1 2	8 6.68	+11 1.5	1.858	2.792	7.7	19.2
1 12	7 58.98	+11 50.8	1.814	2.783	4.2	19.0
1 22	7 50.54	+12 50.4	1.799	2.775	3.2	18.9
2 1	7 42.36	+13 56.0	1.813	2.767	6.3	19.1
2 11	7 35.47	+15 2.6	1.854	2.759	10.0	19.3
2 21	7 30.63	+16 6.0	1.920	2.752	13.4	19.5

395327 2011 QN_{8} 1 17.5 124°.42 0°.0/17.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 26.92	+19 33.0	1.941	2.736	14.5	22.0
12 23	8 20.32	+19 49.6	1.874	2.757	11.0	21.8
1 2	8 11.26	+20 12.2	1.831	2.776	6.9	21.6
1 12	8 0.57	+20 37.3	1.816	2.794	2.5	21.4
1 22	7 49.34	+21 1.2	1.831	2.812	2.0	21.4
2 1	7 38.80	+21 20.7	1.876	2.828	6.3	21.7
2 11	7 30.02	+21 34.5	1.950	2.844	10.2	22.0
2 21	7 23.71	+21 42.3	2.048	2.859	13.4	22.2

36649 2000 QR_{195} 1 17.5 103°.01 4°.3/15.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 28.28	+33 13.0	2.270	3.067	12.6	19.7
12 23	8 21.16	+33 52.5	2.215	3.093	9.7	19.5
1 2	8 11.67	+34 27.2	2.184	3.119	6.7	19.4
1 12	8 0.68	+34 51.6	2.182	3.144	4.5	19.3
1 22	7 49.28	+35 1.7	2.211	3.168	4.9	19.3
2 1	7 38.67	+34 56.2	2.269	3.192	7.3	19.5
2 11	7 29.85	+34 36.5	2.355	3.215	10.1	19.7
2 21	7 23.48	+34 5.8	2.464	3.238	12.5	20.0

516934 2012 AY_{10} 1 17.5 50°.21 13°.9/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.89	−13 17.1	1.094	1.822	27.2	20.3
12 23	8 17.37	−13 8.1	1.027	1.828	24.1	20.1
1 2	8 10.25	−12 6.3	0.973	1.834	20.4	19.9
1 12	8 0.42	−10 4.0	0.935	1.841	16.8	19.7
1 22	7 49.38	− 7 2.5	0.919	1.848	14.3	19.6
2 1	7 39.02	− 3 14.7	0.927	1.856	14.4	19.6
2 11	7 31.10	+ 0 56.3	0.959	1.863	17.0	19.8
2 21	7 26.75	+ 5 6.0	1.014	1.871	20.6	20.0

277819 2006 GL_{19} 1 17.5 273°.17 0°.8/17.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 19.62	+21 15.5	2.121	2.929	13.0	21.6
12 23	8 14.92	+21 43.7	2.035	2.926	9.8	21.4
1 2	8 7.98	+22 17.6	1.974	2.923	6.2	21.2
1 12	7 59.44	+22 53.4	1.941	2.920	2.3	20.9
1 22	7 50.22	+23 27.3	1.937	2.917	2.2	20.9
2 1	7 41.38	+23 55.7	1.962	2.914	6.1	21.2
2 11	7 33.94	+24 16.8	2.016	2.911	9.8	21.4
2 21	7 28.64	+24 29.9	2.093	2.908	13.0	21.6

463424 2013 JF_{41} 1 17.5 119°.34 7°.1/21.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.63	− 0 34.9	2.140	2.871	15.3	21.7
12 23	8 15.36	− 1 10.6	2.067	2.886	12.8	21.5
1 2	8 8.08	− 1 27.7	2.016	2.900	10.2	21.4
1 12	7 59.44	− 1 24.5	1.989	2.914	8.0	21.3
1 22	7 50.29	− 1 1.2	1.990	2.927	7.1	21.3
2 1	7 41.59	− 0 20.3	2.020	2.940	8.2	21.3
2 11	7 34.24	+ 0 33.7	2.076	2.953	10.5	21.5
2 21	7 28.85	+ 1 35.3	2.156	2.965	12.9	21.7

258308 2001 US_{169} 1 17.5 167°.15 0°.5/17.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 14.85	+18 1.3	3.772	4.556	8.2	20.6
12 23	8 10.33	+18 4.0	3.682	4.558	6.3	20.5
1 2	8 4.63	+18 10.2	3.619	4.561	4.0	20.4
1 12	7 58.16	+18 18.8	3.586	4.563	1.6	20.2
1 22	7 51.38	+18 28.5	3.584	4.565	1.2	20.1
2 1	7 44.82	+18 37.9	3.615	4.567	3.6	20.3
2 11	7 38.98	+18 46.1	3.675	4.569	5.9	20.5
2 21	7 34.28	+18 52.5	3.762	4.570	7.9	20.6

62035 2000 RC_{62} 1 17.5 110°.11 5°.3/20.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.91	+ 4 34.1	2.267	3.017	14.0	19.7
12 23	8 15.44	+ 4 1.3	2.195	3.035	11.4	19.5
1 2	8 8.06	+ 3 42.8	2.146	3.052	8.6	19.4
1 12	7 59.43	+ 3 39.3	2.124	3.069	6.1	19.2
1 22	7 50.37	+ 3 50.3	2.131	3.085	5.4	19.2
2 1	7 41.76	+ 4 13.8	2.167	3.101	6.9	19.4
2 11	7 34.46	+ 4 46.3	2.231	3.117	9.4	19.5
2 21	7 29.03	+ 5 24.2	2.319	3.132	12.0	19.7

7118 Kuklov 1 17.5 359°.50 8°.8/21.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.85	+ 0 17.4	1.551	2.319	18.7	16.2
12 23	8 13.36	− 0 31.3	1.474	2.317	15.8	16.0
1 2	8 7.25	− 0 56.9	1.416	2.316	12.6	15.8
1 12	7 59.27	− 0 55.7	1.381	2.315	9.9	15.7
1 22	7 50.46	− 0 27.2	1.370	2.315	8.8	15.6
2 1	7 42.11	+ 0 25.6	1.384	2.316	10.2	15.7
2 11	7 35.43	+ 1 36.3	1.423	2.318	13.1	15.9
2 21	7 31.26	+ 2 56.7	1.483	2.320	16.3	16.1

494763 2006 DD_{133} 1 17.5 324°.09 0°.6/17.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.69	+19 35.1	1.287	2.122	18.2	22.1
12 23	8 16.40	+20 4.5	1.205	2.109	14.0	21.8
1 2	8 9.67	+20 46.3	1.143	2.096	8.9	21.5
1 12	8 0.29	+21 35.4	1.104	2.084	3.3	21.1
1 22	7 49.60	+22 25.1	1.091	2.073	2.9	21.1
2 1	7 39.37	+23 8.8	1.104	2.062	8.8	21.4
2 11	7 31.35	+23 42.0	1.141	2.052	14.2	21.7
2 21	7 26.70	+24 3.5	1.197	2.043	18.8	21.9

502448 2015 BO_{291} 1 17.5 229°.53 2°.3/18.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.04	+11 7.8	2.556	3.333	11.9	21.3
12 23	8 12.58	+11 27.0	2.460	3.328	9.3	21.1
1 2	8 6.35	+11 57.3	2.389	3.322	6.3	20.9
1 12	7 58.87	+12 37.2	2.346	3.316	3.4	20.7
1 22	7 50.82	+13 24.3	2.333	3.310	2.5	20.6
2 1	7 43.00	+14 15.4	2.351	3.304	5.2	20.8
2 11	7 36.20	+15 7.0	2.398	3.297	8.3	21.0
2 21	7 31.05	+15 56.4	2.470	3.290	11.1	21.1

53939 2000 GM_{46} 1 17.5 109°.38 4°.7/19.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.90	+ 7 25.2	1.917	2.691	15.4	18.9
12 23	8 15.84	+ 7 8.3	1.842	2.701	12.3	18.7
1 2	8 8.52	+ 7 6.7	1.790	2.712	8.9	18.5
1 12	7 59.66	+ 7 20.3	1.764	2.722	5.7	18.4
1 22	7 50.21	+ 7 47.6	1.765	2.732	4.8	18.3
2 1	7 41.26	+ 8 25.4	1.796	2.742	7.1	18.5
2 11	7 33.81	+ 9 9.5	1.854	2.752	10.4	18.7
2 21	7 28.55	+ 9 55.8	1.935	2.761	13.5	18.9

101139 1998 RA_{66} 1 17.5 109°.56 6°.0/20.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.37	+ 5 24.4	1.528	2.308	18.4	19.7
12 23	8 17.49	+ 5 8.4	1.457	2.317	14.9	19.5
1 2	8 9.82	+ 5 13.4	1.406	2.326	11.0	19.3
1 12	8 0.19	+ 5 40.1	1.379	2.335	7.3	19.1
1 22	7 49.77	+ 6 26.3	1.378	2.343	6.1	19.0
2 1	7 39.95	+ 7 27.1	1.405	2.352	8.6	19.2
2 11	7 32.01	+ 8 35.8	1.457	2.360	12.3	19.4
2 21	7 26.79	+ 9 45.9	1.532	2.368	16.0	19.7

275776 2001 PC_{65} 1 17.5 115°.82 5°.1/20.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 17.02	+ 2 17.7	2.493	3.235	13.1	20.8
12 23	8 12.47	+ 2 15.4	2.412	3.244	10.7	20.6
1 2	8 6.21	+ 2 28.7	2.353	3.253	8.2	20.5
1 12	7 58.80	+ 2 58.0	2.321	3.262	5.9	20.4
1 22	7 50.93	+ 3 41.6	2.318	3.271	5.1	20.3
2 1	7 43.38	+ 4 36.9	2.344	3.280	6.4	20.4
2 11	7 36.91	+ 5 39.5	2.398	3.288	8.7	20.6
2 21	7 32.07	+ 6 45.2	2.479	3.296	11.2	20.8

306679 2000 UO_{11} 1 17.5 107°.42 5°.8/14.8 18

12 13	8 30.97	+33 21.4	1.893	2.695	14.5	21.1
12 23	8 23.83	+34 45.8	1.842	2.723	11.3	20.9
1 2	8 13.71	+36 6.0	1.816	2.749	8.0	20.8
1 12	8 1.57	+37 12.9	1.818	2.774	5.9	20.7
1 22	7 48.76	+37 59.7	1.850	2.799	6.5	20.8
2 1	7 36.82	+38 23.4	1.910	2.823	9.1	21.0
2 11	7 27.07	+38 25.4	1.996	2.846	12.1	21.2
2 21	7 20.30	+38 10.1	2.104	2.868	14.7	21.4

180542 2004 ER_{11} 1 17.5 331°.18 3°.2/16.2 18

12 13	8 21.49	+25 28.8	1.590	2.416	15.7	20.2
12 23	8 17.21	+26 22.0	1.512	2.411	12.0	19.9
1 2	8 9.88	+27 20.4	1.456	2.407	7.7	19.7
1 12	8 0.30	+28 17.0	1.427	2.402	3.8	19.4
1 22	7 49.70	+29 4.5	1.424	2.398	4.3	19.5
2 1	7 39.62	+29 37.9	1.449	2.394	8.5	19.7
2 11	7 31.52	+29 55.1	1.499	2.391	12.8	19.9
2 21	7 26.37	+29 57.5	1.570	2.388	16.5	20.2

328223 2008 FC_{7} 1 17.5 184°.19 0°.2/17.4 18

12 13	8 21.67	+19 47.7	2.097	2.899	13.3	21.5
12 23	8 16.47	+20 11.2	2.012	2.899	10.1	21.3
1 2	8 8.98	+20 41.1	1.952	2.899	6.4	21.1
1 12	7 59.87	+21 14.1	1.920	2.898	2.3	20.8
1 22	7 50.08	+21 46.4	1.917	2.898	2.0	20.8
2 1	7 40.68	+22 14.7	1.944	2.897	6.1	21.0
2 11	7 32.74	+22 36.8	1.999	2.895	9.9	21.3
2 21	7 26.98	+22 52.0	2.078	2.893	13.1	21.5

375631 2008 XZ_{14} 1 17.5 23°.32 0°.6/17.3 18

12 13	8 19.02	+20 44.1	2.037	2.847	13.3	21.1
12 23	8 14.51	+21 10.1	1.958	2.850	10.1	20.9
1 2	8 7.75	+21 42.1	1.903	2.852	6.4	20.7
1 12	7 59.42	+22 16.5	1.876	2.855	2.3	20.4
1 22	7 50.45	+22 49.4	1.877	2.858	2.1	20.4
2 1	7 41.92	+23 17.4	1.908	2.861	6.1	20.7
2 11	7 34.84	+23 38.4	1.966	2.865	9.9	20.9
2 21	7 29.94	+23 51.8	2.048	2.868	13.1	21.1

201972 2004 PP_{25} 1 17.5 163°.34 0°.6/17.8 18

12 13	8 24.73	+17 9.4	1.873	2.670	14.8	21.5
12 23	8 18.97	+17 32.3	1.793	2.676	11.4	21.3
1 2	8 10.64	+18 4.6	1.737	2.681	7.3	21.1
1 12	8 0.49	+18 42.9	1.708	2.686	2.8	20.8
1 22	7 49.59	+19 22.9	1.708	2.689	2.1	20.8
2 1	7 39.19	+20 0.6	1.739	2.692	6.5	21.0
2 11	7 30.46	+20 33.0	1.797	2.695	10.7	21.3
2 21	7 24.21	+20 58.6	1.879	2.697	14.2	21.5

226725 2004 PP_{64} 1 17.5 111°.49 3°.1/16.1 18

12 13	8 24.21	+28 30.9	2.114	2.921	13.0	20.7
12 23	8 18.36	+29 7.5	2.046	2.934	9.9	20.5
1 2	8 10.11	+29 43.5	2.002	2.946	6.5	20.3
1 12	8 0.25	+30 13.8	1.987	2.959	3.5	20.2
1 22	7 49.83	+30 34.0	2.001	2.971	3.9	20.2
2 1	7 40.01	+30 41.7	2.044	2.982	7.0	20.4
2 11	7 31.87	+30 37.0	2.115	2.994	10.2	20.7
2 21	7 26.09	+30 21.7	2.210	3.005	13.1	20.9

71740 2000 QV_{25} 1 17.5 228°.54 19°.2/ 9.9 16

12 13	8 47.27	+55 55.0	1.163	1.946	22.9	18.9
12 23	8 41.45	+58 27.5	1.119	1.944	20.9	18.7
1 2	8 27.69	+60 33.8	1.092	1.942	19.6	18.6
1 12	8 7.28	+61 50.6	1.084	1.939	19.2	18.6
1 22	7 44.15	+62 1.7	1.093	1.937	20.0	18.6
2 1	7 23.63	+61 5.3	1.120	1.934	21.7	18.7
2 11	7 9.75	+59 15.5	1.163	1.931	23.8	18.9
2 21	7 3.64	+56 51.4	1.219	1.928	26.0	19.0

406027 2006 TT_{75} 1 17.5 104°.20 4°.9/15.1 18

12 13	8 28.16	+32 15.6	2.059	2.862	13.5	21.7
12 23	8 21.46	+33 28.5	2.006	2.888	10.4	21.6
1 2	8 12.10	+34 38.2	1.978	2.913	7.2	21.4
1 12	8 0.98	+35 37.1	1.978	2.938	5.1	21.3
1 22	7 49.27	+36 19.4	2.007	2.961	5.7	21.4
2 1	7 38.31	+36 42.3	2.066	2.985	8.2	21.6
2 11	7 29.25	+36 46.6	2.152	3.007	11.1	21.8
2 21	7 22.84	+36 35.5	2.260	3.029	13.6	22.1

39770 1997 GJ_{16} 1 17.5 45°.95 1°.3/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 20.83	+22 39.6	1.902	2.716	14.0	19.2
12 23	8 16.05	+23 7.8	1.827	2.720	10.6	19.0
1 2	8 8.80	+23 40.8	1.775	2.724	6.7	18.7
1 12	7 59.82	+24 14.3	1.750	2.728	2.6	18.5
1 22	7 50.17	+24 43.8	1.754	2.733	2.6	18.5
2 1	7 41.04	+25 5.9	1.787	2.738	6.7	18.8
2 11	7 33.53	+25 19.1	1.846	2.742	10.5	19.0
2 21	7 28.42	+25 23.4	1.929	2.747	13.9	19.2

473525 2015 XO_{148} 1 17.5 191°.03 2°.8/18.5 18

12 13	8 23.88	+13 27.3	1.787	2.579	15.6	21.5
12 23	8 18.43	+13 12.6	1.702	2.579	12.2	21.2
1 2	8 10.36	+13 8.8	1.640	2.577	8.3	21.0
1 12	8 0.42	+13 15.0	1.604	2.576	4.2	20.8
1 22	7 49.68	+13 29.1	1.597	2.574	3.3	20.7
2 1	7 39.41	+13 48.4	1.618	2.571	7.0	20.9
2 11	7 30.81	+14 10.0	1.667	2.569	11.1	21.1
2 21	7 24.73	+14 31.3	1.739	2.565	14.8	21.4

332848 2010 GC_{97} 1 17.5 148°.13 1°.4/18.2 18

12 13	8 22.99	+14 31.3	1.840	2.635	15.1	21.1
12 23	8 17.66	+14 57.1	1.762	2.642	11.7	20.9
1 2	8 9.82	+15 35.2	1.707	2.649	7.6	20.6
1 12	8 0.21	+16 22.4	1.680	2.656	3.3	20.4
1 22	7 49.86	+17 14.2	1.681	2.661	2.3	20.3
2 1	7 40.00	+18 6.0	1.712	2.667	6.5	20.6
2 11	7 31.77	+18 53.9	1.771	2.672	10.6	20.8
2 21	7 25.97	+19 35.2	1.853	2.676	14.1	21.1

122294 2000 PS_{20} 1 17.5 159°.82 0°.1/17.5 18

12 13	8 21.19	+17 56.1	2.335	3.128	12.4	20.4
12 23	8 15.88	+18 41.6	2.252	3.134	9.4	20.2
1 2	8 8.51	+19 35.3	2.194	3.139	5.9	20.0
1 12	7 59.70	+20 33.4	2.165	3.144	2.2	19.7
1 22	7 50.27	+21 31.6	2.168	3.148	1.8	19.7
2 1	7 41.17	+22 25.7	2.201	3.152	5.6	20.0
2 11	7 33.35	+23 12.8	2.263	3.156	9.0	20.2
2 21	7 27.48	+23 51.4	2.351	3.159	12.0	20.4

241165 2007 RR_{134} 1 17.5 177°.68 2°.2/18.6 18

12 13	8 23.61	+13 2.2	2.134	2.914	13.8	21.8
12 23	8 17.82	+13 7.7	2.046	2.917	10.8	21.6
1 2	8 9.79	+13 23.7	1.983	2.919	7.2	21.3
1 12	8 0.18	+13 48.7	1.948	2.920	3.6	21.1
1 22	7 49.89	+14 20.1	1.942	2.920	2.7	21.1
2 1	7 39.99	+14 54.6	1.967	2.919	6.0	21.3
2 11	7 31.50	+15 29.2	2.021	2.918	9.7	21.5
2 21	7 25.13	+16 1.5	2.100	2.916	12.9	21.7

286793 2002 JH_{106} 1 17.5 194°.12 1°.3/16.9 18

12 13	8 24.41	+22 45.1	2.172	2.971	13.0	22.0
12 23	8 18.56	+23 18.5	2.084	2.969	9.9	21.8
1 2	8 10.34	+23 56.4	2.020	2.966	6.2	21.6
1 12	8 0.40	+24 34.4	1.985	2.963	2.4	21.3
1 22	7 49.71	+25 8.4	1.980	2.958	2.5	21.3
2 1	7 39.39	+25 34.7	2.006	2.953	6.4	21.6
2 11	7 30.55	+25 51.8	2.060	2.947	10.0	21.8
2 21	7 23.97	+25 59.8	2.138	2.941	13.2	22.0

300261 2007 HS_{25} 1 17.5 194°.80 1°.9/16.7 18

12 13	8 26.15	+23 48.8	1.864	2.671	14.5	21.8
12 23	8 20.28	+24 25.5	1.780	2.669	11.1	21.6
1 2	8 11.61	+25 6.8	1.719	2.666	7.1	21.3
1 12	8 0.90	+25 47.2	1.685	2.663	2.9	21.1
1 22	7 49.30	+26 21.5	1.682	2.659	3.1	21.1
2 1	7 38.18	+26 45.6	1.707	2.654	7.3	21.3
2 11	7 28.83	+26 58.1	1.760	2.649	11.4	21.5
2 21	7 22.15	+26 59.8	1.836	2.643	14.9	21.8

350697 2001 WY_{10} 1 17.5 22°.74 0°.1/17.6 18

12 13	8 19.15	+17 57.6	1.067	1.912	20.4	20.1
12 23	8 16.11	+18 27.4	1.012	1.921	15.5	19.8
1 2	8 9.43	+19 12.0	0.976	1.931	9.9	19.5
1 12	8 0.16	+20 5.7	0.962	1.942	3.6	19.2
1 22	7 49.95	+21 0.7	0.972	1.954	2.8	19.2
2 1	7 40.69	+21 49.6	1.007	1.967	8.9	19.6
2 11	7 34.05	+22 27.8	1.064	1.982	14.3	19.9
2 21	7 30.96	+22 53.7	1.141	1.998	18.8	20.3

360751 2004 XG_{48} 1 17.6 21°.57 1°.5/17.9 18

12 13	8 20.88	+17 34.3	1.177	2.012	19.5	20.0
12 23	8 17.11	+17 22.4	1.116	2.019	15.0	19.7
1 2	8 9.91	+17 21.9	1.076	2.027	9.7	19.4
1 12	8 0.31	+17 30.1	1.058	2.036	4.0	19.1
1 22	7 49.85	+17 43.3	1.065	2.046	2.9	19.1
2 1	7 40.31	+17 57.5	1.097	2.057	8.4	19.4
2 11	7 33.22	+18 9.8	1.152	2.069	13.6	19.8
2 21	7 29.47	+18 18.3	1.228	2.082	17.9	20.1

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
424920 2008 XP_{21}			1 17.6	63°.58	4°.9/19.3	18
	h m	° ′			°	m
12 13	8 20.73	+ 8 2.0	2.146	2.915	14.1	20.7
12 23	8 15.46	+ 7 10.2	2.071	2.926	11.3	20.5
1 2	8 8.18	+ 6 29.8	2.019	2.937	8.3	20.3
1 12	7 59.56	+ 6 2.1	1.994	2.947	5.7	20.2
1 22	7 50.46	+ 5 47.2	1.998	2.958	5.0	20.2
2 1	7 41.83	+ 5 44.4	2.030	2.970	6.9	20.3
2 11	7 34.57	+ 5 51.1	2.090	2.981	9.8	20.5
2 21	7 29.28	+ 6 4.7	2.175	2.992	12.5	20.7
61899 2000 QN_{228}			1 17.6	150°.09	0°.2/17.7	18
12 13	8 22.07	+19 14.3	2.068	2.869	13.5	20.2
12 23	8 16.74	+19 23.0	1.988	2.873	10.3	20.0
1 2	8 9.13	+19 37.7	1.931	2.877	6.5	19.8
1 12	7 59.95	+19 55.7	1.902	2.880	2.4	19.6
1 22	7 50.15	+20 14.0	1.903	2.884	1.9	19.5
2 1	7 40.81	+20 29.9	1.933	2.887	6.0	19.8
2 11	7 32.97	+20 41.6	1.992	2.890	9.8	20.0
2 21	7 27.33	+20 48.5	2.074	2.892	13.0	20.3
35604 1998 HZ_{124}			1 17.6	224°.59	1°.0/18.1	18
12 13	8 19.63	+14 56.1	2.354	3.142	12.5	19.8
12 23	8 14.78	+15 31.5	2.257	3.134	9.6	19.6
1 2	8 7.90	+16 17.2	2.184	3.126	6.2	19.4
1 12	7 59.53	+17 10.7	2.140	3.117	2.6	19.1
1 22	7 50.45	+18 8.1	2.127	3.107	1.8	19.0
2 1	7 41.59	+19 5.5	2.144	3.097	5.5	19.3
2 11	7 33.89	+19 59.1	2.190	3.087	9.1	19.5
2 21	7 28.06	+20 46.7	2.262	3.077	12.2	19.6
413112 2001 VA_{72}			1 17.6	39°.81	12°.3/21.9	18
12 13	8 20.54	− 7 19.6	1.718	2.432	19.1	20.2
12 23	8 15.87	− 9 7.7	1.652	2.440	16.9	20.0
1 2	8 8.72	−10 31.6	1.605	2.448	14.7	19.9
1 12	7 59.84	−11 24.9	1.579	2.457	12.9	19.8
1 22	7 50.25	−11 44.2	1.576	2.466	12.3	19.8
2 1	7 41.16	−11 29.9	1.598	2.475	12.9	19.8
2 11	7 33.70	−10 47.0	1.641	2.485	14.5	20.0
2 21	7 28.63	− 9 43.6	1.705	2.495	16.6	20.1
72799 2001 FC_{188}			1 17.6	109°.00	4°.2/15.3	18
12 13	8 23.44	+26 29.3	1.647	2.469	15.5	18.9
12 23	8 18.68	+27 59.1	1.575	2.471	11.8	18.7
1 2	8 10.84	+29 34.5	1.526	2.473	7.8	18.4
1 12	8 0.70	+31 6.6	1.503	2.475	4.5	18.2
1 22	7 49.52	+32 26.1	1.510	2.477	5.4	18.3
2 1	7 38.83	+33 26.4	1.544	2.479	9.1	18.5
2 11	7 30.12	+34 5.2	1.604	2.481	13.0	18.8
2 21	7 24.40	+34 24.3	1.685	2.483	16.4	19.0
197240 2003 WD_{60}			1 17.6	98°.47	0°.4/17.4	18
12 13	8 21.20	+20 29.2	2.314	3.113	12.3	20.6
12 23	8 15.77	+20 52.1	2.246	3.131	9.3	20.5
1 2	8 8.35	+21 19.8	2.203	3.150	5.8	20.3
1 12	7 59.63	+21 49.0	2.189	3.168	2.1	20.0
1 22	7 50.46	+22 16.5	2.205	3.185	1.8	20.1
2 1	7 41.79	+22 39.7	2.251	3.203	5.4	20.3
2 11	7 34.49	+22 57.0	2.326	3.220	8.8	20.6
2 21	7 29.16	+23 8.1	2.426	3.237	11.6	20.8
80269 1999 XW_{28}			1 17.6	66°.66	1°.2/17.1	18
12 13	8 25.95	+20 2.8	1.226	2.054	19.3	19.0
12 23	8 20.80	+20 54.1	1.176	2.076	14.6	18.8
1 2	8 12.15	+21 56.3	1.146	2.098	9.1	18.5
1 12	8 1.11	+23 1.5	1.141	2.120	3.3	18.2
1 22	7 49.31	+24 1.3	1.162	2.142	3.2	18.3
2 1	7 38.59	+24 49.3	1.210	2.165	8.6	18.7
2 11	7 30.50	+25 22.7	1.282	2.187	13.5	19.0
2 21	7 25.85	+25 42.1	1.375	2.209	17.6	19.3
123482 2000 WL_{163}			1 17.6	43°.83	1°.4/16.9	18
12 13	8 21.17	+22 50.6	1.842	2.657	14.3	19.8
12 23	8 16.40	+23 20.8	1.767	2.661	10.9	19.5
1 2	8 9.08	+23 55.9	1.715	2.665	6.9	19.3
1 12	7 59.98	+24 31.3	1.691	2.669	2.7	19.1
1 22	7 50.16	+25 2.4	1.695	2.674	2.7	19.1
2 1	7 40.88	+25 25.4	1.727	2.678	6.9	19.3
2 11	7 33.30	+25 39.0	1.787	2.683	10.8	19.6
2 21	7 28.18	+25 43.2	1.869	2.688	14.2	19.8
127941 2003 HK_{3}			1 17.6	233°.37	2°.0/18.4	18
12 13	8 20.22	+14 16.9	1.982	2.777	14.2	20.5
12 23	8 15.47	+14 18.2	1.895	2.775	11.0	20.3
1 2	8 8.42	+14 29.8	1.832	2.772	7.3	20.1
1 12	7 59.74	+14 50.0	1.795	2.769	3.5	19.8
1 22	7 50.34	+15 16.3	1.787	2.766	2.6	19.7
2 1	7 41.33	+15 45.5	1.809	2.764	6.2	20.0
2 11	7 33.76	+16 14.7	1.858	2.761	10.1	20.2
2 21	7 28.38	+16 41.6	1.931	2.758	13.5	20.4

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
412885 2014 QF_{30}			1 17.6	43°.60	3°.5/19.5	18
	h m	° ′			°	m
12 13	8 18.96	+ 7 59.1	1.604	2.396	17.1	20.5
12 23	8 14.90	+ 8 39.6	1.531	2.404	13.6	20.3
1 2	8 8.23	+ 9 41.5	1.480	2.413	9.4	20.1
1 12	7 59.70	+11 2.3	1.453	2.422	5.2	19.9
1 22	7 50.39	+12 36.1	1.455	2.431	3.7	19.8
2 1	7 41.58	+14 15.3	1.484	2.441	7.1	20.0
2 11	7 34.48	+15 52.1	1.541	2.451	11.3	20.3
2 21	7 29.91	+17 20.7	1.622	2.461	15.1	20.5
407419 2010 TA_{99}			1 17.6	66°.86	4°.4/19.5	18
12 13	8 20.76	+ 8 33.6	1.654	2.443	16.9	21.7
12 23	8 16.05	+ 8 26.0	1.588	2.457	13.4	21.5
1 2	8 8.82	+ 8 35.3	1.543	2.472	9.4	21.3
1 12	7 59.87	+ 9 1.1	1.523	2.487	5.7	21.1
1 22	7 50.30	+ 9 40.4	1.530	2.502	4.6	21.1
2 1	7 41.35	+10 29.0	1.565	2.517	7.4	21.3
2 11	7 34.14	+11 21.8	1.627	2.532	11.1	21.6
2 21	7 29.40	+12 14.1	1.712	2.547	14.6	21.8
43141 1999 XR_{91}			1 17.6	175°.37	1°.1/16.9	18
12 13	8 22.51	+20 18.8	1.971	2.776	13.9	18.3
12 23	8 17.35	+21 14.2	1.889	2.778	10.6	18.1
1 2	8 9.69	+22 18.0	1.832	2.779	6.7	17.8
1 12	8 0.23	+23 25.1	1.802	2.780	2.5	17.6
1 22	7 49.97	+24 29.6	1.802	2.781	2.5	17.6
2 1	7 40.08	+25 26.3	1.832	2.781	6.7	17.8
2 11	7 31.74	+26 12.0	1.889	2.781	10.6	18.1
2 21	7 25.76	+26 45.9	1.971	2.780	13.9	18.3
382206 2012 PH_{13}			1 17.6	150°.88	0°.3/17.7	18
12 13	8 19.83	+19 18.1	2.541	3.335	11.5	21.4
12 23	8 14.66	+19 24.0	2.458	3.340	8.7	21.3
1 2	8 7.66	+19 34.6	2.399	3.344	5.5	21.1
1 12	7 59.41	+19 47.8	2.370	3.348	2.1	20.8
1 22	7 50.68	+20 1.2	2.371	3.352	1.6	20.8
2 1	7 42.32	+20 12.9	2.402	3.355	5.0	21.1
2 11	7 35.14	+20 21.5	2.463	3.358	8.3	21.3
2 21	7 29.73	+20 26.4	2.548	3.361	11.0	21.5
78456 2002 RL_{31}			1 17.6	117°.08	0°.3/17.5	18
12 13	8 24.15	+20 55.4	1.778	2.587	15.0	19.9
12 23	8 18.65	+21 2.3	1.703	2.593	11.4	19.7
1 2	8 10.49	+21 14.6	1.652	2.599	7.2	19.5
1 12	8 0.50	+21 28.8	1.627	2.605	2.6	19.2
1 22	7 49.82	+21 41.3	1.630	2.611	2.2	19.2
2 1	7 39.75	+21 49.4	1.663	2.617	6.8	19.5
2 11	7 31.50	+21 51.8	1.723	2.623	10.9	19.8
2 21	7 25.84	+21 48.6	1.806	2.628	14.5	20.0
2481 Bürgi			1 17.6	121°.61	1°.1/17.1	18
12 13	8 25.01	+22 25.8	2.172	2.970	13.0	18.4
12 23	8 18.78	+22 52.9	2.105	2.989	9.8	18.2
1 2	8 10.32	+23 23.6	2.062	3.008	6.2	18.0
1 12	8 0.38	+23 54.0	2.048	3.026	2.3	17.8
1 22	7 49.94	+24 20.2	2.064	3.043	2.3	17.8
2 1	7 40.09	+24 39.6	2.111	3.059	6.0	18.1
2 11	7 31.80	+24 51.0	2.186	3.075	9.5	18.4
2 21	7 25.73	+24 54.7	2.286	3.090	12.4	18.6
116985 2004 HY_{33}			1 17.6	322°.73	4°.9/14.9	18
12 13	8 22.59	+29 4.0	1.744	2.565	14.8	19.6
12 23	8 17.99	+30 29.6	1.668	2.563	11.4	19.4
1 2	8 10.39	+31 58.2	1.617	2.561	7.7	19.1
1 12	8 0.57	+33 20.9	1.592	2.559	5.1	19.0
1 22	7 49.71	+34 29.4	1.595	2.557	5.9	19.0
2 1	7 39.30	+35 17.9	1.626	2.555	9.2	19.2
2 11	7 30.79	+35 44.9	1.683	2.554	12.8	19.4
2 21	7 25.15	+35 52.6	1.761	2.552	16.1	19.6
60982 2000 KO_{13}			1 17.6	22°.90	3°.0/16.5	18
12 13	8 22.21	+23 59.8	1.193	2.035	18.9	18.9
12 23	8 18.42	+24 51.5	1.132	2.039	14.4	18.6
1 2	8 10.94	+25 50.7	1.091	2.044	9.2	18.4
1 12	8 0.80	+26 49.0	1.073	2.051	4.1	18.1
1 22	7 49.59	+27 37.7	1.080	2.057	4.5	18.1
2 1	7 39.27	+28 10.5	1.113	2.065	9.6	18.4
2 11	7 31.54	+28 25.7	1.169	2.073	14.6	18.7
2 21	7 27.42	+28 25.0	1.244	2.082	18.8	19.0
357548 2004 SP_{32}			1 17.6	78°.96	1°.1/18.0	17
12 13	8 25.58	+16 8.9	1.492	2.300	17.5	21.3
12 23	8 19.88	+16 28.8	1.437	2.325	13.3	21.1
1 2	8 11.28	+17 0.6	1.404	2.350	8.5	20.9
1 12	8 0.77	+17 40.0	1.397	2.374	3.4	20.6
1 22	7 49.69	+18 22.0	1.417	2.398	2.4	20.6
2 1	7 39.50	+19 1.8	1.466	2.422	7.2	21.0
2 11	7 31.45	+19 36.0	1.541	2.446	11.6	21.3
2 21	7 26.29	+20 3.0	1.639	2.469	15.3	21.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
334615 2002 UT_{57}			1 17.6 325°.42		3°.8/19.7 18	
	h m	° ′			°	m
12 13	8 17.06	+ 7 53.6	2.209	2.984	13.6	21.1
12 23	8 12.85	+ 7 56.8	2.121	2.982	10.9	20.9
1 2	8 6.68	+ 8 14.3	2.056	2.980	7.8	20.7
1 12	7 59.11	+ 8 45.3	2.017	2.978	4.8	20.5
1 22	7 50.94	+ 9 27.9	2.007	2.977	3.9	20.4
2 1	7 43.07	+10 18.8	2.026	2.975	6.1	20.6
2 11	7 36.40	+11 13.8	2.073	2.974	9.3	20.8
2 21	7 31.58	+12 9.0	2.145	2.972	12.3	21.0
307205 2002 FQ_{27}			1 17.6 283°.57		1°.8/16.8 18	
12 13	8 22.26	+21 50.6	1.576	2.397	16.1	20.8
12 23	8 18.01	+22 39.5	1.482	2.379	12.3	20.5
1 2	8 10.61	+23 38.5	1.410	2.361	7.9	20.2
1 12	8 0.74	+24 41.6	1.364	2.342	3.1	19.8
1 22	7 49.56	+25 41.5	1.345	2.324	3.4	19.8
2 1	7 38.63	+26 31.7	1.354	2.305	8.4	20.1
2 11	7 29.56	+27 8.3	1.389	2.287	13.2	20.3
2 21	7 23.48	+27 30.7	1.445	2.268	17.4	20.5
103649 2000 CJ_{37}			1 17.6 68°.52		3°.9/16.4 18	
12 13	8 28.33	+27 11.8	1.277	2.107	18.6	18.9
12 23	8 22.68	+27 55.9	1.226	2.126	14.1	18.7
1 2	8 13.38	+28 41.5	1.195	2.144	9.1	18.5
1 12	8 1.60	+29 19.9	1.189	2.163	4.6	18.3
1 22	7 49.07	+29 43.8	1.209	2.182	5.1	18.3
2 1	7 37.72	+29 49.8	1.255	2.201	9.5	18.6
2 11	7 29.13	+29 39.0	1.325	2.220	13.9	18.9
2 21	7 24.15	+29 15.2	1.416	2.238	17.7	19.2
18650 1998 FX_{10}			1 17.6 60°.73		2°.5/16.6 18	
12 13	8 23.02	+26 19.3	1.903	2.716	14.0	18.4
12 23	8 17.80	+26 45.4	1.825	2.718	10.7	18.2
1 2	8 9.98	+27 12.8	1.772	2.719	6.9	17.9
1 12	8 0.35	+27 36.8	1.745	2.721	3.2	17.7
1 22	7 50.00	+27 52.8	1.747	2.723	3.5	17.7
2 1	7 40.20	+27 58.2	1.778	2.724	7.2	18.0
2 11	7 32.15	+27 52.5	1.836	2.726	10.9	18.2
2 21	7 26.62	+27 37.2	1.917	2.728	14.2	18.4
372712 2009 XG_{2}			1 17.6 47°.20		5°.2/19.3 18	
12 13	8 21.20	+ 8 1.4	2.020	2.792	14.8	20.0
12 23	8 16.03	+ 7 5.6	1.939	2.795	11.9	19.8
1 2	8 8.68	+ 6 21.4	1.881	2.799	8.8	19.6
1 12	7 59.84	+ 5 50.4	1.850	2.803	6.0	19.4
1 22	7 50.41	+ 5 33.3	1.846	2.807	5.3	19.4
2 1	7 41.43	+ 5 29.2	1.872	2.811	7.4	19.5
2 11	7 33.87	+ 5 35.7	1.924	2.816	10.4	19.7
2 21	7 28.42	+ 5 49.8	2.001	2.820	13.4	19.9
405567 2005 QQ_{50}			1 17.6 110°.09		4°.0/15.8 18	
12 13	8 25.89	+30 35.9	2.011	2.818	13.6	21.2
12 23	8 19.82	+31 20.3	1.946	2.832	10.4	21.1
1 2	8 11.16	+32 2.5	1.905	2.846	7.0	20.9
1 12	8 0.74	+32 36.6	1.892	2.860	4.3	20.8
1 22	7 49.72	+32 57.6	1.908	2.873	4.8	20.8
2 1	7 39.38	+33 3.0	1.954	2.886	7.7	21.0
2 11	7 30.88	+32 53.6	2.026	2.898	10.9	21.2
2 21	7 24.95	+32 32.0	2.121	2.910	13.8	21.4
191049 2002 CE_{56}			1 17.6 296°.73		2°.6/16.7 18	
12 13	8 23.43	+27 16.2	1.869	2.683	14.2	19.6
12 23	8 18.34	+27 30.8	1.776	2.669	10.9	19.4
1 2	8 10.48	+27 45.6	1.707	2.654	7.1	19.1
1 12	8 0.59	+27 55.9	1.665	2.640	3.4	18.8
1 22	7 49.78	+27 57.4	1.651	2.626	3.6	18.8
2 1	7 39.42	+27 47.7	1.665	2.612	7.5	19.0
2 11	7 30.81	+27 26.8	1.706	2.598	11.5	19.2
2 21	7 24.84	+26 56.7	1.770	2.584	15.1	19.4
376996 2002 PC_{178}			1 17.6 110°.90		4°.6/20.3 18	
12 13	8 18.42	+ 4 35.8	2.449	3.200	13.1	21.4
12 23	8 13.55	+ 4 26.7	2.373	3.214	10.6	21.3
1 2	8 6.95	+ 4 31.8	2.320	3.228	7.9	21.1
1 12	7 59.18	+ 4 51.0	2.294	3.242	5.5	21.0
1 22	7 50.98	+ 5 23.0	2.296	3.255	4.6	21.0
2 1	7 43.15	+ 6 5.2	2.329	3.268	6.2	21.1
2 11	7 36.45	+ 6 53.9	2.390	3.281	8.7	21.3
2 21	7 31.44	+ 7 45.3	2.476	3.294	11.2	21.5
420555 2012 GZ_{28}			1 17.6 330°.03		6°.2/20.9 18	
12 13	8 17.10	+ 2 35.7	1.731	2.500	17.0	20.9
12 23	8 13.45	+ 2 37.9	1.643	2.493	14.0	20.7
1 2	8 7.36	+ 3 2.8	1.575	2.487	10.7	20.4
1 12	7 59.46	+ 3 51.6	1.531	2.481	7.5	20.2
1 22	7 50.71	+ 5 2.0	1.514	2.475	6.2	20.2
2 1	7 42.29	+ 6 28.9	1.524	2.470	8.2	20.2
2 11	7 35.33	+ 8 4.9	1.561	2.465	11.6	20.4
2 21	7 30.70	+ 9 42.6	1.621	2.461	15.0	20.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
159293 2006 BV_{21}			1 17.6 71°.39		1°.6/18.3 17	
	h m	° ′			°	m
12 13	8 23.44	+14 2.7	1.393	2.205	18.3	20.3
12 23	8 18.55	+14 34.4	1.334	2.223	14.0	20.1
1 2	8 10.63	+15 22.2	1.296	2.242	9.1	19.8
1 12	8 0.62	+16 21.6	1.283	2.260	3.9	19.6
1 22	7 49.87	+17 26.2	1.298	2.278	2.6	19.5
2 1	7 39.94	+18 29.5	1.339	2.297	7.6	19.9
2 11	7 32.16	+19 26.1	1.406	2.315	12.2	20.2
2 21	7 27.38	+20 13.2	1.496	2.333	16.2	20.5
260480 2005 CZ_{18}			1 17.6 314°.36		0°.3/17.5 18	
12 13	8 21.71	+20 44.6	1.432	2.259	17.1	20.2
12 23	8 17.68	+20 50.0	1.345	2.244	13.2	19.9
1 2	8 10.41	+21 2.9	1.279	2.230	8.4	19.6
1 12	8 0.67	+21 19.5	1.237	2.217	3.1	19.2
1 22	7 49.75	+21 35.4	1.222	2.203	2.6	19.1
2 1	7 39.29	+21 46.6	1.234	2.191	8.1	19.4
2 11	7 30.89	+21 51.2	1.270	2.178	13.3	19.7
2 21	7 25.62	+21 48.7	1.327	2.167	17.7	19.9
522427 2016 CM_{314}			1 17.6 272°.61		0°.4/17.3 17	
12 13	8 19.11	+19 38.2	2.161	2.966	12.9	21.9
12 23	8 14.59	+20 13.6	2.074	2.962	9.8	21.7
1 2	8 7.89	+20 56.4	2.010	2.958	6.2	21.5
1 12	7 59.62	+21 42.9	1.975	2.954	2.2	21.2
1 22	7 50.65	+22 28.9	1.969	2.950	2.0	21.2
2 1	7 42.00	+23 10.5	1.993	2.945	6.0	21.4
2 11	7 34.67	+23 45.0	2.045	2.941	9.6	21.6
2 21	7 29.41	+24 11.4	2.121	2.937	12.8	21.8
276055 2002 CP_{37}			1 17.6 26°.91		5°.5/16.3 18	
12 13	8 27.30	+33 59.4	1.477	2.301	16.8	19.7
12 23	8 21.67	+34 14.5	1.418	2.311	13.1	19.4
1 2	8 12.62	+34 22.2	1.380	2.321	9.1	19.2
1 12	8 1.33	+34 15.5	1.367	2.333	5.9	19.1
1 22	7 49.41	+33 49.9	1.380	2.345	6.2	19.1
2 1	7 38.62	+33 5.2	1.421	2.358	9.5	19.4
2 11	7 30.40	+32 5.2	1.486	2.372	13.3	19.6
2 21	7 25.54	+30 55.7	1.572	2.386	16.7	19.9
241966 2002 GC_{4}			1 17.6 231°.20		8°.2/13.4 18	
12 13	8 31.03	+40 54.6	2.002	2.795	14.1	20.7
12 23	8 24.60	+42 15.7	1.920	2.784	11.7	20.6
1 2	8 14.73	+43 29.6	1.861	2.771	9.4	20.4
1 12	8 2.25	+44 26.1	1.829	2.759	8.2	20.3
1 22	7 48.53	+44 57.4	1.824	2.745	8.9	20.3
2 1	7 35.32	+44 59.7	1.847	2.731	11.1	20.4
2 11	7 24.30	+44 35.0	1.894	2.716	13.8	20.5
2 21	7 16.56	+43 48.8	1.961	2.701	16.4	20.7
151555 2002 TJ_{43}			1 17.6 86°.02		5°.1/19.7 18	
12 13	8 21.68	+ 7 11.4	1.761	2.539	16.4	20.1
12 23	8 16.62	+ 6 46.5	1.692	2.553	13.2	19.9
1 2	8 9.16	+ 6 37.9	1.645	2.566	9.6	19.8
1 12	8 0.06	+ 6 46.0	1.622	2.580	6.3	19.6
1 22	7 50.36	+ 7 9.3	1.628	2.594	5.2	19.6
2 1	7 41.24	+ 7 44.6	1.661	2.607	7.6	19.7
2 11	7 33.77	+ 8 27.3	1.721	2.621	11.0	20.0
2 21	7 28.66	+ 9 13.0	1.804	2.634	14.2	20.2
7630 1979 MR_{2}			1 17.6 72°.27		0°.7/17.9 18	
12 13	8 20.67	+17 44.7	1.959	2.762	14.0	17.6
12 23	8 15.78	+17 55.2	1.885	2.771	10.7	17.4
1 2	8 8.60	+18 13.6	1.834	2.780	6.9	17.1
1 12	7 59.86	+18 37.0	1.811	2.788	2.7	16.9
1 22	7 50.52	+19 2.2	1.816	2.797	1.9	16.9
2 1	7 41.69	+19 26.1	1.851	2.806	6.1	17.2
2 11	7 34.40	+19 46.5	1.913	2.815	9.9	17.4
2 21	7 29.34	+20 2.1	1.999	2.824	13.2	17.6
488217 2015 XS_{331}			1 17.6 232°.90		1°.5/18.1 18	
12 13	8 24.32	+16 22.7	1.872	2.668	14.9	22.0
12 23	8 18.87	+16 19.0	1.776	2.657	11.6	21.8
1 2	8 10.78	+16 24.0	1.704	2.646	7.6	21.5
1 12	8 0.74	+16 35.8	1.658	2.634	3.3	21.2
1 22	7 49.77	+16 51.6	1.641	2.622	2.4	21.1
2 1	7 39.14	+17 8.7	1.654	2.608	6.7	21.4
2 11	7 30.09	+17 24.6	1.694	2.595	11.0	21.6
2 21	7 23.51	+17 37.8	1.758	2.581	14.8	21.8
69888 1998 SB_{102}			1 17.6 53°.55		5°.2/20.2 18	
12 13	8 18.21	+ 5 23.8	1.931	2.702	15.4	19.4
12 23	8 13.85	+ 5 10.9	1.860	2.714	12.5	19.3
1 2	8 7.35	+ 5 15.1	1.810	2.726	9.2	19.1
1 12	7 59.40	+ 5 36.4	1.785	2.738	6.2	18.9
1 22	7 50.89	+ 6 13.2	1.788	2.751	5.2	18.9
2 1	7 42.86	+ 7 1.9	1.819	2.764	7.1	19.0
2 11	7 36.24	+ 7 57.8	1.877	2.777	10.2	19.2
2 21	7 31.71	+ 8 55.9	1.959	2.790	13.2	19.5

401404 2013 CX_{61} 1 17.6 238°.25 0°.7/17.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 23.98	+20 28.8	1.899	2.704	14.4	21.9
12 23	8 18.72	+20 59.4	1.803	2.691	11.0	21.6
1 2	8 10.75	+21 37.6	1.730	2.677	7.0	21.3
1 12	8 0.75	+22 19.5	1.684	2.663	2.6	21.0
1 22	7 49.75	+22 59.9	1.668	2.649	2.3	21.0
2 1	7 39.03	+23 34.5	1.682	2.633	6.9	21.2
2 11	7 29.89	+24 0.7	1.722	2.618	11.2	21.5
2 21	7 23.27	+24 17.8	1.786	2.601	14.9	21.7

334050 2001 NM_{1} 1 17.6 73°.27 5°.1/19.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.10	+ 6 28.2	2.345	3.095	13.6	20.0
12 23	8 17.67	+ 5 29.0	2.285	3.126	11.0	19.9
1 2	8 9.43	+ 4 41.4	2.249	3.157	8.2	19.7
1 12	8 0.07	+ 4 7.1	2.242	3.187	5.8	19.6
1 22	7 50.42	+ 3 46.1	2.264	3.218	5.2	19.6
2 1	7 41.37	+ 3 37.8	2.317	3.248	6.7	19.8
2 11	7 33.68	+ 3 39.8	2.397	3.277	9.1	20.0
2 21	7 27.88	+ 3 49.4	2.503	3.307	11.5	20.2

166688 2002 TA_{135} 1 17.6 237°.79 2°.8/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.86	+28 54.6	2.327	3.131	12.1	20.0
12 23	8 17.33	+29 14.4	2.240	3.127	9.2	19.8
1 2	8 9.56	+29 33.1	2.179	3.122	6.1	19.6
1 12	8 0.23	+29 46.5	2.145	3.117	3.3	19.4
1 22	7 50.27	+29 51.0	2.141	3.113	3.5	19.5
2 1	7 40.74	+29 44.9	2.168	3.108	6.5	19.6
2 11	7 32.67	+29 28.2	2.222	3.102	9.7	19.8
2 21	7 26.76	+29 2.7	2.300	3.097	12.6	20.0

189014 1998 QJ_{55} 1 17.6 154°.05 2°.0/18.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 26.14	+14 31.3	1.858	2.646	15.3	21.2
12 23	8 20.02	+14 34.3	1.780	2.656	11.8	21.0
1 2	8 11.35	+14 47.9	1.726	2.665	7.8	20.8
1 12	8 0.90	+15 9.9	1.698	2.672	3.6	20.5
1 22	7 49.75	+15 37.2	1.700	2.679	2.6	20.5
2 1	7 39.15	+16 6.4	1.732	2.686	6.6	20.7
2 11	7 30.26	+16 34.4	1.792	2.691	10.6	21.0
2 21	7 23.84	+16 59.4	1.876	2.696	14.1	21.2

399682 2004 TJ_{43} 1 17.6 138°.82 4°.1/19.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.11	+ 9 27.4	1.825	2.603	15.9	21.7
12 23	8 18.46	+ 9 10.2	1.749	2.614	12.6	21.5
1 2	8 10.35	+ 9 7.0	1.696	2.623	8.9	21.3
1 12	8 0.53	+ 9 17.8	1.669	2.633	5.3	21.2
1 22	7 50.06	+ 9 40.5	1.670	2.642	4.3	21.1
2 1	7 40.12	+10 12.2	1.701	2.650	7.1	21.3
2 11	7 31.84	+10 48.8	1.758	2.657	10.8	21.5
2 21	7 25.95	+11 26.8	1.840	2.664	14.2	21.8

352134 2007 HJ_{61} 1 17.6 133°.24 3°.0/18.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.77	+11 8.9	1.741	2.529	16.2	21.9
12 23	8 18.35	+11 18.2	1.667	2.540	12.7	21.7
1 2	8 10.36	+11 42.3	1.615	2.550	8.6	21.5
1 12	8 0.55	+12 19.5	1.590	2.560	4.5	21.2
1 22	7 50.04	+13 6.1	1.593	2.570	3.4	21.2
2 1	7 40.08	+13 57.5	1.625	2.578	6.9	21.4
2 11	7 31.83	+14 49.1	1.684	2.587	10.9	21.7
2 21	7 26.10	+15 37.2	1.767	2.595	14.5	21.9

423409 2005 MY_{15} 1 17.6 238°.70 2°.6/19.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.28	+ 9 5.1	2.752	3.518	11.4	21.4
12 23	8 12.76	+ 9 26.8	2.648	3.506	9.1	21.2
1 2	8 6.55	+10 0.5	2.568	3.494	6.3	21.1
1 12	7 59.14	+10 44.9	2.516	3.482	3.6	20.9
1 22	7 51.14	+11 37.8	2.495	3.469	2.8	20.8
2 1	7 43.30	+12 36.0	2.505	3.456	5.0	20.9
2 11	7 36.37	+13 36.1	2.545	3.442	7.9	21.1
2 21	7 30.95	+14 34.9	2.611	3.429	10.7	21.2

82136 2001 FF_{121} 1 17.6 163°.32 1°.5/18.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 27.56	+16 44.1	1.780	2.574	15.6	20.3
12 23	8 21.24	+16 36.6	1.701	2.580	12.1	20.0
1 2	8 12.19	+16 37.4	1.644	2.586	7.8	19.8
1 12	8 1.24	+16 44.2	1.615	2.591	3.3	19.5
1 22	7 49.53	+16 54.4	1.614	2.595	2.4	19.5
2 1	7 38.42	+17 5.3	1.644	2.598	6.8	19.8
2 11	7 29.13	+17 15.0	1.701	2.600	11.1	20.0
2 21	7 22.50	+17 22.4	1.782	2.602	14.7	20.3

496670 2016 CY_{28} 1 17.6 321°.42 2°.9/15.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.13	+23 34.6	1.729	2.550	14.8	21.3
12 23	8 16.11	+24 54.3	1.646	2.543	11.3	21.0
1 2	8 9.26	+26 22.8	1.586	2.536	7.3	20.8
1 12	8 0.27	+27 52.9	1.553	2.529	3.5	20.5
1 22	7 50.23	+29 16.1	1.548	2.522	4.2	20.5
2 1	7 40.51	+30 25.5	1.572	2.515	8.2	20.8
2 11	7 32.50	+31 17.4	1.622	2.509	12.3	21.0
2 21	7 27.19	+31 51.6	1.694	2.504	15.9	21.2

149244 Kriegh 1 17.6 243°.12 0°.3/17.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 26.11	+19 28.0	1.507	2.321	17.1	20.9
12 23	8 20.87	+19 29.1	1.420	2.312	13.2	20.6
1 2	8 12.37	+19 38.2	1.354	2.302	8.5	20.4
1 12	8 1.43	+19 51.8	1.314	2.292	3.2	20.0
1 22	7 49.34	+20 5.8	1.301	2.282	2.4	19.9
2 1	7 37.74	+20 16.8	1.316	2.272	7.9	20.2
2 11	7 28.21	+20 22.7	1.356	2.261	12.9	20.5
2 21	7 21.79	+20 23.2	1.419	2.250	17.3	20.7

83850 2001 UA_{45} 1 17.6 203°.63 1°.7/16.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.62	+25 13.4	2.821	3.620	10.3	20.1
12 23	8 14.54	+25 49.2	2.731	3.616	7.8	19.9
1 2	8 7.67	+26 27.0	2.667	3.612	5.0	19.7
1 12	7 59.55	+27 3.3	2.632	3.607	2.3	19.5
1 22	7 50.87	+27 34.8	2.628	3.602	2.5	19.6
2 1	7 42.46	+27 59.1	2.655	3.597	5.3	19.7
2 11	7 35.11	+28 14.8	2.710	3.592	8.2	19.9
2 21	7 29.44	+28 22.1	2.792	3.586	10.7	20.1

214512 2006 BL_{264} 1 17.6 203°.06 1°.5/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.39	+22 52.8	2.007	2.809	13.8	21.2
12 23	8 19.60	+23 26.3	1.918	2.805	10.5	21.0
1 2	8 11.20	+24 4.9	1.853	2.800	6.7	20.8
1 12	8 0.92	+24 43.7	1.816	2.794	2.7	20.5
1 22	7 49.77	+25 18.0	1.809	2.787	2.7	20.5
2 1	7 39.02	+25 43.9	1.832	2.780	6.8	20.7
2 11	7 29.86	+25 59.8	1.883	2.772	10.7	21.0
2 21	7 23.16	+26 6.0	1.957	2.764	14.1	21.2

77820 2001 QR_{174} 1 17.6 118°.01 3°.0/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.10	+33 13.4	3.722	4.515	8.2	20.6
12 23	8 12.97	+33 47.3	3.653	4.530	6.3	20.5
1 2	8 6.46	+34 18.3	3.611	4.544	4.4	20.4
1 12	7 59.05	+34 43.5	3.599	4.558	3.1	20.3
1 22	7 51.32	+35 0.6	3.618	4.572	3.4	20.3
2 1	7 43.89	+35 8.4	3.667	4.586	5.0	20.4
2 11	7 37.38	+35 6.7	3.745	4.599	6.8	20.6
2 21	7 32.22	+34 56.5	3.848	4.612	8.5	20.7

423554 2005 UV_{330} 1 17.6 15°.16 2°.6/18.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.08	+13 44.0	1.581	2.391	16.5	21.1
12 23	8 15.10	+13 38.6	1.507	2.394	12.9	20.8
1 2	8 8.44	+13 46.1	1.455	2.397	8.6	20.6
1 12	7 59.91	+14 5.0	1.428	2.402	4.2	20.4
1 22	7 50.62	+14 32.4	1.428	2.406	3.1	20.3
2 1	7 41.89	+15 4.3	1.455	2.412	7.1	20.5
2 11	7 34.93	+15 37.0	1.507	2.418	11.4	20.8
2 21	7 30.55	+16 7.2	1.583	2.424	15.2	21.1

281645 2008 UY_{337} 1 17.6 55°.45 6°.4/20.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.73	+ 3 32.3	2.111	2.864	14.8	20.5
12 23	8 14.87	+ 2 36.0	2.032	2.870	12.2	20.4
1 2	8 7.97	+ 1 54.4	1.976	2.877	9.5	20.2
1 12	7 59.68	+ 1 29.4	1.945	2.883	7.2	20.1
1 22	7 50.84	+ 1 21.9	1.942	2.889	6.5	20.0
2 1	7 42.40	+ 1 30.7	1.968	2.896	7.9	20.1
2 11	7 35.29	+ 1 52.6	2.019	2.903	10.4	20.3
2 21	7 30.13	+ 2 23.7	2.095	2.909	13.0	20.5

277788 2006 EK_{2} 1 17.6 226°.27 1°.1/17.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.55	+22 4.0	2.123	2.930	13.0	21.2
12 23	8 15.74	+22 33.3	2.039	2.929	9.8	21.0
1 2	8 8.66	+23 7.6	1.980	2.927	6.2	20.8
1 12	7 59.98	+23 43.0	1.948	2.926	2.4	20.5
1 22	7 50.61	+24 15.5	1.945	2.925	2.3	20.5
2 1	7 41.64	+24 41.8	1.972	2.923	6.2	20.8
2 11	7 34.09	+25 0.0	2.027	2.922	9.8	21.0
2 21	7 28.69	+25 10.0	2.106	2.920	13.0	21.2

464594 2016 CK_{111} 1 17.6 142°.34 1°.4/18.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.58	+17 2.5	2.255	3.041	13.0	21.6
12 23	8 18.40	+16 44.1	2.175	3.051	10.0	21.5
1 2	8 10.14	+16 31.2	2.120	3.060	6.5	21.3
1 12	8 0.47	+16 22.7	2.093	3.069	2.8	21.0
1 22	7 50.30	+16 17.0	2.097	3.077	2.1	21.0
2 1	7 40.64	+16 12.7	2.132	3.085	5.6	21.2
2 11	7 32.39	+16 8.9	2.196	3.092	9.1	21.5
2 21	7 26.21	+16 4.7	2.285	3.099	12.1	21.7

215524 2002 VZ_{71} 1 17.6 79°.94 0°.1/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.06	+18 31.5	1.705	2.514	15.6	20.5
12 23	8 17.89	+19 7.5	1.642	2.532	11.8	20.3
1 2	8 10.09	+19 52.6	1.602	2.550	7.4	20.1
1 12	8 0.51	+20 42.4	1.588	2.567	2.7	19.8
1 22	7 50.29	+21 31.3	1.604	2.585	2.1	19.8
2 1	7 40.74	+22 14.7	1.648	2.602	6.8	20.2
2 11	7 33.02	+22 49.8	1.719	2.620	10.9	20.4
2 21	7 27.89	+23 15.5	1.813	2.637	14.4	20.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
270676 2002 QJ_{25}			1 17.6 159°.84		1°.0/18.2 16	
	h m	° ′			°	m
12 13	8 19.49	+15 50.4	2.681	3.465	11.2	22.1
12 23	8 14.37	+16 3.0	2.596	3.471	8.6	22.0
1 2	8 7.53	+16 22.5	2.536	3.476	5.6	21.8
1 12	7 59.52	+16 47.1	2.505	3.480	2.4	21.6
1 22	7 51.04	+17 14.4	2.504	3.485	1.7	21.5
2 1	7 42.87	+17 42.1	2.535	3.489	4.8	21.7
2 11	7 35.77	+18 8.1	2.595	3.492	7.8	21.9
2 21	7 30.31	+18 30.9	2.682	3.495	10.5	22.1
244544 2002 UO_{73}			1 17.6 132°.11		6°.5/13.8 18	
12 13	8 25.24	+39 57.7	2.434	3.227	11.9	20.6
12 23	8 19.38	+41 5.3	2.368	3.233	9.7	20.5
1 2	8 11.00	+42 5.6	2.326	3.239	7.6	20.3
1 12	8 0.85	+42 51.8	2.312	3.245	6.5	20.3
1 22	7 50.01	+43 19.0	2.327	3.251	7.1	20.3
2 1	7 39.71	+43 25.0	2.369	3.256	8.8	20.4
2 11	7 31.07	+43 10.9	2.436	3.261	11.0	20.6
2 21	7 24.88	+42 40.5	2.526	3.266	13.1	20.7
202447 2005 YZ_{98}			1 17.6 228°.60		2°.1/16.7 18	
12 13	8 24.93	+22 55.1	1.743	2.554	15.2	20.7
12 23	8 19.74	+23 46.6	1.654	2.546	11.6	20.4
1 2	8 11.59	+24 45.5	1.588	2.537	7.4	20.2
1 12	8 1.19	+25 45.8	1.550	2.527	3.1	19.9
1 22	7 49.70	+26 40.8	1.540	2.517	3.4	19.9
2 1	7 38.55	+27 24.8	1.559	2.506	7.8	20.1
2 11	7 29.20	+27 55.0	1.604	2.495	12.2	20.3
2 21	7 22.64	+28 11.7	1.672	2.483	16.0	20.6
198647 2005 AS_{79}			1 17.6 58°.94		0°.1/17.7 18	
12 13	8 19.03	+17 3.9	2.062	2.864	13.5	20.2
12 23	8 14.61	+17 53.2	1.982	2.869	10.3	20.0
1 2	8 7.97	+18 52.9	1.927	2.873	6.5	19.8
1 12	7 59.76	+19 58.7	1.899	2.878	2.4	19.6
1 22	7 50.88	+21 5.8	1.901	2.882	1.8	19.5
2 1	7 42.36	+22 9.0	1.933	2.887	6.0	19.8
2 11	7 35.21	+23 4.7	1.993	2.892	9.7	20.0
2 21	7 30.18	+23 50.8	2.078	2.897	12.9	20.3
298980 2004 WD_{5}			1 17.6 34°.74		2°.0/16.9 18	
12 13	8 22.45	+22 22.6	1.207	2.046	18.9	19.9
12 23	8 18.43	+23 2.6	1.152	2.057	14.3	19.7
1 2	8 10.89	+23 50.8	1.116	2.070	9.0	19.4
1 12	8 0.90	+24 39.9	1.105	2.084	3.5	19.1
1 22	7 50.04	+25 22.3	1.118	2.098	3.6	19.2
2 1	7 40.13	+25 52.5	1.158	2.113	8.9	19.5
2 11	7 32.77	+26 8.7	1.221	2.128	13.8	19.9
2 21	7 28.84	+26 11.8	1.304	2.145	17.9	20.2
230449 2002 QZ_{135}			1 17.6 97°.72		0°.8/17.3 18	
12 13	8 27.40	+19 12.8	1.457	2.269	17.6	21.6
12 23	8 21.56	+20 2.0	1.399	2.291	13.3	21.4
1 2	8 12.59	+21 1.6	1.363	2.312	8.4	21.2
1 12	8 1.47	+22 4.9	1.353	2.332	3.0	20.9
1 22	7 49.60	+23 4.8	1.371	2.352	2.7	20.9
2 1	7 38.61	+23 55.2	1.418	2.371	7.8	21.3
2 11	7 29.89	+24 33.3	1.491	2.390	12.3	21.6
2 21	7 24.27	+24 59.0	1.585	2.408	16.1	21.9
490376 2009 JO_{17}			1 17.6 152°.05		1°.2/18.3 18	
12 13	8 21.78	+13 55.4	2.039	2.828	14.1	21.9
12 23	8 16.67	+14 37.0	1.957	2.835	10.8	21.7
1 2	8 9.27	+15 31.3	1.900	2.840	7.1	21.5
1 12	8 0.24	+16 34.7	1.870	2.846	3.0	21.2
1 22	7 50.52	+17 42.6	1.870	2.851	2.0	21.2
2 1	7 41.17	+18 49.8	1.901	2.855	6.0	21.4
2 11	7 33.25	+19 52.0	1.960	2.859	9.8	21.7
2 21	7 27.49	+20 46.4	2.044	2.863	13.1	21.9
59443 1999 GV_{30}			1 17.6 200°.15		5°.7/14.5 18	
12 13	8 26.02	+35 39.0	2.262	3.062	12.5	19.8
12 23	8 20.13	+36 45.9	2.183	3.059	9.9	19.7
1 2	8 11.59	+37 48.9	2.129	3.056	7.4	19.5
1 12	8 1.13	+38 40.9	2.102	3.052	5.7	19.4
1 22	7 49.82	+39 15.9	2.104	3.048	6.3	19.4
2 1	7 38.95	+39 30.9	2.136	3.043	8.6	19.6
2 11	7 29.73	+39 26.3	2.193	3.038	11.3	19.7
2 21	7 23.04	+39 5.2	2.273	3.032	13.9	19.9
433823 2015 BW_{185}			1 17.6 233°.85		1°.8/16.5 17	
12 13	8 20.33	+25 32.8	2.789	3.588	10.5	22.3
12 23	8 15.19	+26 7.5	2.691	3.575	7.9	22.1
1 2	8 8.18	+26 44.3	2.618	3.563	5.1	21.9
1 12	7 59.83	+27 19.6	2.574	3.550	2.4	21.7
1 22	7 50.85	+27 50.0	2.562	3.536	2.6	21.7
2 1	7 42.09	+28 12.7	2.580	3.522	5.5	21.8
2 11	7 34.38	+28 26.6	2.627	3.508	8.4	22.0
2 21	7 28.39	+28 31.9	2.700	3.493	11.0	22.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
71934 2000 WA_{63}			1 17.6 135°.52		0°.5/17.4 18	
	h m	° ′			°	m
12 13	8 26.14	+20 51.2	1.915	2.715	14.4	19.9
12 23	8 20.02	+21 10.0	1.842	2.728	11.0	19.7
1 2	8 11.37	+21 34.2	1.794	2.740	6.9	19.5
1 12	8 1.00	+21 59.9	1.773	2.752	2.5	19.2
1 22	7 49.99	+22 23.3	1.782	2.763	2.1	19.2
2 1	7 39.59	+22 41.1	1.821	2.773	6.5	19.5
2 11	7 30.93	+22 52.0	1.887	2.782	10.4	19.8
2 21	7 24.76	+22 56.1	1.978	2.791	13.7	20.0
373890 2003 SQ_{326}			1 17.6 75°.36		5°.4/15.4 18	
12 13	8 25.60	+35 10.2	2.055	2.861	13.4	21.6
12 23	8 19.81	+35 51.4	1.984	2.866	10.5	21.4
1 2	8 11.32	+36 27.2	1.938	2.871	7.6	21.3
1 12	8 0.99	+36 51.0	1.919	2.875	5.5	21.2
1 22	7 50.00	+36 58.1	1.928	2.880	6.0	21.2
2 1	7 39.67	+36 46.6	1.965	2.885	8.5	21.4
2 11	7 31.22	+36 18.1	2.028	2.890	11.4	21.5
2 21	7 25.41	+35 36.2	2.114	2.895	14.1	21.7
501633 2014 SZ_{209}			1 17.6 96°.05		0°.9/18.1 18	
12 13	8 20.36	+15 44.6	1.902	2.704	14.5	21.2
12 23	8 15.75	+16 13.9	1.823	2.708	11.1	21.0
1 2	8 8.75	+16 54.3	1.768	2.712	7.2	20.7
1 12	8 0.07	+17 42.5	1.739	2.716	2.9	20.5
1 22	7 50.68	+18 34.2	1.739	2.720	2.0	20.4
2 1	7 41.72	+19 24.9	1.768	2.724	6.2	20.7
2 11	7 34.27	+20 10.7	1.825	2.728	10.2	20.9
2 21	7 29.10	+20 49.4	1.906	2.732	13.7	21.2
153836 2001 XB_{12}			1 17.6 346°.70		6°.9/15.6 18	
12 13	8 25.94	+36 5.5	1.518	2.341	16.5	19.3
12 23	8 21.06	+36 43.4	1.445	2.335	13.1	19.1
1 2	8 12.61	+37 14.0	1.393	2.329	9.6	18.9
1 12	8 1.58	+37 28.5	1.366	2.324	7.1	18.7
1 22	7 49.55	+37 20.3	1.365	2.320	7.6	18.7
2 1	7 38.39	+36 47.3	1.389	2.317	10.6	18.9
2 11	7 29.74	+35 52.8	1.438	2.314	14.3	19.1
2 21	7 24.57	+34 43.0	1.507	2.312	17.7	19.3
506344 2017 OV_{48}			1 17.6 159°.50		1°.2/18.1 18	
12 13	8 20.60	+17 11.5	2.462	3.251	11.9	21.2
12 23	8 15.36	+17 0.4	2.376	3.254	9.2	21.1
1 2	8 8.24	+16 54.8	2.315	3.256	5.9	20.9
1 12	7 59.83	+16 53.3	2.282	3.258	2.5	20.6
1 22	7 50.93	+16 54.3	2.279	3.259	1.8	20.6
2 1	7 42.40	+16 56.3	2.307	3.261	5.2	20.8
2 11	7 35.08	+16 58.0	2.364	3.262	8.4	21.0
2 21	7 29.56	+16 58.6	2.447	3.264	11.3	21.2
291219 2006 AR_{104}			1 17.6 179°.91		0°.1/17.7 18	
12 13	8 25.01	+18 29.3	1.910	2.708	14.6	21.8
12 23	8 19.33	+18 55.8	1.826	2.710	11.1	21.6
1 2	8 11.07	+19 30.8	1.766	2.711	7.1	21.3
1 12	8 0.95	+20 10.5	1.733	2.712	2.6	21.0
1 22	7 50.03	+20 50.5	1.730	2.711	2.0	21.0
2 1	7 39.55	+21 26.6	1.757	2.710	6.5	21.3
2 11	7 30.69	+21 56.2	1.811	2.708	10.7	21.5
2 21	7 24.30	+22 18.3	1.890	2.706	14.2	21.7
87917 2000 SF_{316}			1 17.6 298°.27		8°.1/20.8 18	
12 13	8 18.13	− 2 43.4	2.376	3.093	14.3	19.2
12 23	8 13.64	− 3 52.1	2.282	3.084	12.3	19.1
1 2	8 7.26	− 4 45.2	2.210	3.074	10.3	18.9
1 12	7 59.52	− 5 19.3	2.162	3.065	8.7	18.8
1 22	7 51.15	− 5 32.6	2.141	3.056	8.1	18.7
2 1	7 43.00	− 5 25.2	2.147	3.047	9.0	18.8
2 11	7 35.93	− 4 59.9	2.179	3.038	10.8	18.9
2 21	7 30.59	− 4 20.9	2.234	3.029	13.0	19.0
325555 2009 SH_{85}			1 17.6 210°.65		3°.9/15.9 18	
12 13	8 25.92	+31 12.4	2.191	2.994	12.8	21.4
12 23	8 19.94	+31 49.1	2.106	2.989	9.9	21.2
1 2	8 11.42	+32 23.7	2.045	2.984	6.8	21.0
1 12	8 1.07	+32 50.7	2.012	2.978	4.2	20.9
1 22	7 49.96	+33 5.3	2.008	2.972	4.7	20.9
2 1	7 39.32	+33 5.1	2.034	2.965	7.5	21.0
2 11	7 30.30	+32 50.3	2.087	2.958	10.7	21.2
2 21	7 23.72	+32 23.4	2.164	2.951	13.6	21.4
398476 2011 UM_{129}			1 17.6 141°.11		1°.3/17.1 18	
12 13	8 26.86	+22 44.4	1.973	2.774	14.1	22.3
12 23	8 20.56	+23 14.2	1.901	2.787	10.7	22.1
1 2	8 11.72	+23 48.1	1.853	2.799	6.7	21.9
1 12	8 1.15	+24 21.6	1.833	2.811	2.6	21.6
1 22	7 49.94	+24 50.0	1.843	2.821	2.6	21.7
2 1	7 39.32	+25 10.4	1.883	2.832	6.6	21.9
2 11	7 30.43	+25 21.4	1.951	2.841	10.4	22.2
2 21	7 24.03	+25 23.7	2.043	2.849	13.6	22.4

135230 2001 RC_{127} 1 17.6 108°.50 6°.7/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 26.88	+41 40.9	2.436	3.224	12.1	19.8
12 23	8 20.57	+42 33.7	2.372	3.232	9.9	19.7
1 2	8 11.71	+43 17.4	2.333	3.241	7.9	19.5
1 12	8 1.13	+43 45.5	2.320	3.249	6.7	19.5
1 22	7 49.96	+43 53.7	2.336	3.257	7.2	19.5
2 1	7 39.45	+43 40.6	2.379	3.265	8.9	19.7
2 11	7 30.74	+43 8.2	2.448	3.273	11.0	19.8
2 21	7 24.54	+42 20.7	2.540	3.280	13.0	20.0

325228 2008 GD_{41} 1 17.6 346°.10 0°.6/17.9 18

12 13	8 20.54	+16 57.2	1.780	2.588	15.1	21.5
12 23	8 16.11	+17 24.5	1.698	2.587	11.6	21.2
1 2	8 9.11	+18 2.6	1.640	2.586	7.4	21.0
1 12	8 0.27	+18 48.0	1.608	2.586	2.9	20.7
1 22	7 50.61	+19 36.1	1.604	2.585	2.0	20.6
2 1	7 41.38	+20 22.2	1.629	2.585	6.6	20.9
2 11	7 33.77	+21 2.7	1.680	2.584	10.9	21.2
2 21	7 28.61	+21 35.4	1.755	2.584	14.5	21.4

359146 2009 BL_{105} 1 17.6 64°.79 1°.3/18.1 17

12 13	8 26.22	+16 25.0	1.402	2.214	18.2	20.9
12 23	8 20.51	+16 32.5	1.352	2.242	13.9	20.7
1 2	8 11.80	+16 51.5	1.324	2.270	8.9	20.5
1 12	8 1.17	+17 18.4	1.321	2.299	3.6	20.3
1 22	7 50.03	+17 48.4	1.346	2.327	2.5	20.3
2 1	7 39.90	+18 17.4	1.398	2.355	7.4	20.6
2 11	7 32.05	+18 42.3	1.476	2.383	11.9	21.0
2 21	7 27.19	+19 1.7	1.576	2.411	15.6	21.3

20233 1998 AZ_{6} 1 17.6 139°.49 0°.8/17.3 18

12 13	8 28.51	+20 37.8	1.644	2.449	16.2	19.0
12 23	8 22.25	+21 10.6	1.574	2.462	12.3	18.8
1 2	8 13.01	+21 50.9	1.528	2.475	7.8	18.5
1 12	8 1.69	+22 33.3	1.508	2.486	2.9	18.3
1 22	7 49.57	+23 12.3	1.517	2.497	2.5	18.3
2 1	7 38.16	+23 43.4	1.555	2.507	7.4	18.6
2 11	7 28.82	+24 4.5	1.620	2.516	11.8	18.9
2 21	7 22.39	+24 16.0	1.708	2.524	15.5	19.1

209665 2005 CZ_{45} 1 17.6 36°.40 5°.7/16.7 18

12 13	8 30.39	+33 7.7	1.136	1.972	20.0	19.1
12 23	8 24.60	+33 19.0	1.092	1.992	15.4	18.9
1 2	8 14.72	+33 22.4	1.068	2.013	10.5	18.7
1 12	8 2.26	+33 9.5	1.066	2.036	6.4	18.6
1 22	7 49.30	+32 35.7	1.090	2.059	6.5	18.7
2 1	7 37.97	+31 42.0	1.139	2.083	10.5	18.9
2 11	7 29.90	+30 34.1	1.211	2.108	14.8	19.3
2 21	7 25.77	+29 18.8	1.303	2.133	18.5	19.6

322341 2011 HR_{44} 1 17.6 148°.48 4°.1/15.1 18

12 13	8 22.09	+31 17.9	2.451	3.255	11.5	20.6
12 23	8 16.83	+32 24.0	2.376	3.260	8.9	20.4
1 2	8 9.36	+33 29.2	2.327	3.264	6.2	20.3
1 12	8 0.33	+34 27.6	2.306	3.268	4.2	20.2
1 22	7 50.63	+35 14.1	2.316	3.272	4.8	20.2
2 1	7 41.30	+35 45.6	2.354	3.276	7.2	20.4
2 11	7 33.34	+36 1.4	2.421	3.280	9.9	20.5
2 21	7 27.48	+36 3.1	2.510	3.283	12.3	20.7

29612 Cindyjiang 1 17.6 327°.36 1°.0/18.0 18

12 13	8 17.69	+16 27.4	1.134	1.975	19.7	17.7
12 23	8 15.40	+16 46.0	1.050	1.956	15.4	17.4
1 2	8 9.48	+17 22.0	0.986	1.938	10.1	17.1
1 12	8 0.65	+18 12.1	0.943	1.922	4.0	16.7
1 22	7 50.28	+19 10.2	0.924	1.906	2.8	16.5
2 1	7 40.27	+20 8.3	0.930	1.892	9.2	16.8
2 11	7 32.58	+20 59.9	0.957	1.878	15.2	17.1
2 21	7 28.50	+21 41.0	1.004	1.866	20.4	17.4

447134 2004 XY_{103} 1 17.6 16°.59 4°.9/16.1 18

12 13	8 18.71	+26 52.7	0.972	1.833	20.6	20.2
12 23	8 16.41	+27 52.6	0.925	1.841	15.7	19.9
1 2	8 10.01	+28 56.4	0.895	1.851	10.3	19.7
1 12	8 0.71	+29 53.5	0.888	1.863	5.5	19.4
1 22	7 50.40	+30 34.0	0.903	1.877	6.2	19.5
2 1	7 41.25	+30 52.1	0.941	1.893	11.0	19.8
2 11	7 35.11	+30 48.2	1.000	1.910	15.9	20.2
2 21	7 32.87	+30 26.1	1.078	1.928	20.1	20.5

41780 2000 VK_{53} 1 17.6 188°.52 1°.9/18.3 18

12 13	8 24.54	+15 30.9	1.839	2.633	15.2	19.6
12 23	8 19.00	+15 22.2	1.754	2.633	11.8	19.3
1 2	8 10.89	+15 22.6	1.692	2.632	7.8	19.1
1 12	8 0.93	+15 30.6	1.656	2.631	3.6	18.8
1 22	7 50.19	+15 43.7	1.650	2.629	2.6	18.8
2 1	7 39.91	+15 59.2	1.673	2.627	6.7	19.0
2 11	7 31.28	+16 14.7	1.723	2.625	10.8	19.3
2 21	7 25.13	+16 28.5	1.797	2.622	14.4	19.5

285947 2001 RL_{18} 1 17.6 115°.33 1°.4/17.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 25.47	+23 38.8	2.135	2.935	13.2	21.5
12 23	8 19.27	+24 4.0	2.068	2.954	9.9	21.3
1 2	8 10.80	+24 31.9	2.027	2.973	6.3	21.1
1 12	8 0.82	+24 58.4	2.013	2.991	2.5	20.9
1 22	7 50.34	+25 19.6	2.030	3.008	2.5	20.9
2 1	7 40.47	+25 33.1	2.077	3.025	6.1	21.2
2 11	7 32.21	+25 38.1	2.153	3.042	9.6	21.4
2 21	7 26.22	+25 35.4	2.252	3.057	12.6	21.6

320072 2007 EY_{48} 1 17.6 202°.96 5°.0/20.4 18

12 13	8 18.98	+ 3 41.4	2.442	3.188	13.2	20.7
12 23	8 14.21	+ 3 27.9	2.348	3.185	10.9	20.5
1 2	8 7.60	+ 3 29.1	2.277	3.181	8.2	20.4
1 12	7 59.68	+ 3 45.4	2.232	3.177	5.9	20.2
1 22	7 51.17	+ 4 16.2	2.216	3.172	5.1	20.2
2 1	7 42.91	+ 4 58.9	2.230	3.167	6.6	20.2
2 11	7 35.73	+ 5 50.1	2.272	3.161	9.1	20.4
2 21	7 30.25	+ 6 45.5	2.339	3.155	11.8	20.6

255955 2006 TD_{28} 1 17.6 156°.81 0°.2/17.5 18

12 13	8 23.14	+19 46.4	1.954	2.757	14.1	21.5
12 23	8 17.84	+20 9.4	1.874	2.761	10.7	21.2
1 2	8 10.10	+20 39.2	1.818	2.765	6.8	21.0
1 12	8 0.63	+21 12.3	1.789	2.768	2.5	20.7
1 22	7 50.46	+21 44.5	1.790	2.771	2.0	20.7
2 1	7 40.75	+22 12.2	1.820	2.774	6.3	21.0
2 11	7 32.63	+22 33.4	1.878	2.776	10.3	21.2
2 21	7 26.86	+22 47.4	1.960	2.778	13.7	21.5

259387 Atauta 1 17.6 237°.00 0°.7/17.9 18

12 13	8 20.72	+16 59.8	2.276	3.069	12.7	21.1
12 23	8 15.81	+17 20.5	2.178	3.058	9.7	20.9
1 2	8 8.76	+17 49.5	2.104	3.047	6.3	20.6
1 12	8 0.15	+18 24.3	2.058	3.035	2.5	20.4
1 22	7 50.80	+19 1.6	2.042	3.023	1.8	20.3
2 1	7 41.69	+19 38.0	2.056	3.011	5.7	20.5
2 11	7 33.80	+20 10.9	2.100	2.998	9.3	20.7
2 21	7 27.87	+20 38.4	2.167	2.985	12.6	20.9

93059 2000 SO_{16} 1 17.6 22°.60 7°.4/16.3 18

12 13	8 27.67	+35 13.0	1.099	1.941	20.1	18.6
12 23	8 23.06	+35 42.6	1.049	1.951	15.8	18.4
1 2	8 14.08	+36 2.6	1.018	1.961	11.3	18.2
1 12	8 2.16	+36 2.9	1.008	1.973	7.8	18.0
1 22	7 49.41	+35 36.9	1.023	1.986	8.1	18.1
2 1	7 38.17	+34 44.6	1.061	2.000	11.7	18.3
2 11	7 30.26	+33 32.1	1.122	2.016	16.0	18.6
2 21	7 26.49	+32 7.9	1.201	2.032	19.8	18.9

9121 Stefanovalentini 1 17.6 170°.46 0°.8/17.2 18

12 13	8 16.75	+23 7.3	3.249	4.045	9.2	17.5
12 23	8 12.14	+23 21.1	3.162	4.046	6.9	17.3
1 2	8 6.10	+23 36.7	3.101	4.047	4.4	17.2
1 12	7 59.08	+23 52.2	3.069	4.047	1.7	17.0
1 22	7 51.68	+24 5.5	3.068	4.048	1.6	17.0
2 1	7 44.55	+24 14.9	3.099	4.048	4.3	17.2
2 11	7 38.30	+24 19.8	3.159	4.049	6.8	17.3
2 21	7 33.41	+24 19.7	3.245	4.049	9.1	17.5

123421 2000 WV_{105} 1 17.6 17°.98 5°.1/15.4 18

12 13	8 20.35	+28 56.4	1.429	2.266	16.6	18.9
12 23	8 16.72	+30 10.5	1.370	2.272	12.7	18.7
1 2	8 9.83	+31 26.2	1.332	2.280	8.6	18.5
1 12	8 0.62	+32 34.4	1.319	2.289	5.4	18.3
1 22	7 50.50	+33 26.6	1.332	2.299	6.1	18.4
2 1	7 41.13	+33 57.6	1.372	2.309	9.8	18.6
2 11	7 34.01	+34 7.1	1.435	2.321	13.7	18.9
2 21	7 30.06	+33 58.1	1.518	2.333	17.1	19.2

67872 2000 WH_{34} 1 17.6 108°.33 1°.5/18.4 18

12 13	8 23.73	+14 21.2	1.722	2.520	15.9	19.8
12 23	8 18.42	+14 48.0	1.653	2.534	12.3	19.5
1 2	8 10.50	+15 27.6	1.607	2.549	8.0	19.3
1 12	8 0.79	+16 16.7	1.587	2.563	3.5	19.1
1 22	7 50.39	+17 10.5	1.596	2.577	2.3	19.0
2 1	7 40.59	+18 3.9	1.634	2.590	6.7	19.3
2 11	7 32.56	+18 52.7	1.700	2.603	10.8	19.6
2 21	7 27.07	+19 34.5	1.789	2.616	14.4	19.9

462724 2009 YO_{22} 1 17.6 60°.95 3°.3/15.9 18

12 13	8 21.51	+26 43.7	1.952	2.768	13.6	20.4
12 23	8 16.76	+27 48.5	1.883	2.776	10.4	20.3
1 2	8 9.48	+28 56.1	1.838	2.784	6.8	20.1
1 12	8 0.43	+29 59.9	1.820	2.793	3.7	19.9
1 22	7 50.65	+30 53.9	1.832	2.801	4.2	19.9
2 1	7 41.37	+31 33.7	1.872	2.810	7.5	20.1
2 11	7 33.73	+31 58.0	1.939	2.819	10.9	20.4
2 21	7 28.52	+32 7.8	2.028	2.828	14.0	20.6

492670 2014 PO_{20} 1 17.6 195°.36 0°.2/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 24.39	+19 24.1	2.011	2.809	13.9	22.7
12 23	8 18.82	+19 49.6	1.922	2.807	10.6	22.4
1 2	8 10.77	+20 22.5	1.858	2.804	6.8	22.2
1 12	8 0.92	+20 59.2	1.822	2.800	2.5	21.9
1 22	7 50.26	+21 35.3	1.815	2.796	2.0	21.9
2 1	7 39.99	+22 7.2	1.839	2.792	6.3	22.1
2 11	7 31.24	+22 32.4	1.890	2.786	10.3	22.4
2 21	7 24.83	+22 50.1	1.966	2.780	13.8	22.6

117107 2004 OL_{10} 1 17.7 198°.17 1°.8/16.7 18

12 13	8 21.76	+23 1.0	2.015	2.824	13.5	20.2
12 23	8 16.90	+23 51.6	1.933	2.823	10.3	19.9
1 2	8 9.58	+24 48.0	1.874	2.822	6.5	19.7
1 12	8 0.49	+25 45.1	1.844	2.821	2.7	19.5
1 22	7 50.60	+26 37.2	1.843	2.820	3.0	19.5
2 1	7 41.09	+27 20.0	1.871	2.818	6.8	19.7
2 11	7 33.09	+27 51.1	1.927	2.816	10.5	19.9
2 21	7 27.42	+28 10.4	2.006	2.814	13.8	20.1

179883 2002 UE_{16} 1 17.7 40°.37 5°.8/20.2 18 R

12 13	8 19.60	+ 6 0.8	1.483	2.273	18.4	20.1
12 23	8 15.56	+ 5 43.3	1.418	2.285	14.9	19.9
1 2	8 8.82	+ 5 46.7	1.373	2.297	10.9	19.7
1 12	8 0.20	+ 6 11.4	1.352	2.309	7.2	19.5
1 22	7 50.87	+ 6 55.1	1.356	2.323	5.9	19.5
2 1	7 42.17	+ 7 52.9	1.386	2.336	8.3	19.6
2 11	7 35.32	+ 8 58.1	1.442	2.350	12.1	19.9
2 21	7 31.10	+10 4.5	1.521	2.365	15.6	20.1

207876 2007 VB_{299} 1 17.7 15°.21 6°.0/21.4 18

12 13	8 16.19	+ 0 48.3	2.225	2.969	14.4	19.9
12 23	8 12.25	+ 0 41.5	2.140	2.971	12.0	19.7
1 2	8 6.43	+ 0 53.2	2.076	2.972	9.3	19.6
1 12	7 59.28	+ 1 24.1	2.038	2.974	7.0	19.4
1 22	7 51.56	+ 2 13.0	2.027	2.977	6.0	19.4
2 1	7 44.15	+ 3 16.7	2.044	2.979	7.2	19.5
2 11	7 37.88	+ 4 30.2	2.089	2.981	9.7	19.6
2 21	7 33.41	+ 5 48.1	2.159	2.984	12.3	19.8

210148 2006 SW_{101} 1 17.7 329°.35 0°.1/17.7 17

12 13	8 18.29	+19 23.1	2.125	2.932	13.0	20.8
12 23	8 14.09	+19 37.3	2.036	2.924	9.9	20.6
1 2	8 7.71	+19 58.1	1.970	2.917	6.3	20.4
1 12	7 59.79	+20 22.5	1.932	2.910	2.3	20.1
1 22	7 51.18	+20 47.6	1.922	2.903	1.8	20.1
2 1	7 42.90	+21 10.3	1.942	2.897	5.8	20.3
2 11	7 35.95	+21 28.4	1.989	2.891	9.6	20.5
2 21	7 31.04	+21 41.0	2.061	2.885	12.8	20.7

150409 2000 EV_{172} 1 17.7 157°.32 1°.9/18.5 18

12 13	8 24.33	+13 14.7	1.707	2.501	16.2	20.5
12 23	8 19.03	+13 39.7	1.628	2.506	12.6	20.3
1 2	8 11.01	+14 19.2	1.572	2.512	8.3	20.1
1 12	8 1.04	+15 10.1	1.542	2.517	3.8	19.8
1 22	7 50.22	+16 7.8	1.541	2.521	2.6	19.7
2 1	7 39.90	+17 6.9	1.569	2.524	6.9	20.0
2 11	7 31.32	+18 2.4	1.624	2.527	11.2	20.3
2 21	7 25.35	+18 51.4	1.703	2.530	15.0	20.5

27296 Kathyhurd 1 17.7 329°.94 0°.3/17.6 18

12 13	8 24.91	+22 6.4	1.262	2.093	18.7	17.8
12 23	8 20.50	+21 52.5	1.184	2.085	14.4	17.5
1 2	8 12.45	+21 43.4	1.126	2.078	9.2	17.2
1 12	8 1.68	+21 35.3	1.092	2.071	3.4	16.8
1 22	7 49.73	+21 24.5	1.084	2.065	2.7	16.7
2 1	7 38.49	+21 8.8	1.101	2.059	8.7	17.1
2 11	7 29.72	+20 48.0	1.142	2.054	14.1	17.4
2 21	7 24.48	+20 23.1	1.204	2.050	18.8	17.6

105567 2000 RG_{64} 1 17.7 176°.20 5°.9/21.5 17

12 13	8 17.21	− 2 28.9	3.132	3.834	11.4	20.6
12 23	8 12.46	− 2 59.7	3.041	3.836	9.7	20.5
1 2	8 6.31	− 3 16.7	2.973	3.837	7.9	20.3
1 12	7 59.20	− 3 18.8	2.931	3.839	6.5	20.2
1 22	7 51.67	− 3 5.8	2.917	3.839	5.9	20.2
2 1	7 44.37	− 2 38.8	2.933	3.840	6.6	20.3
2 11	7 37.88	− 2 0.5	2.977	3.839	8.1	20.4
2 21	7 32.71	− 1 14.2	3.046	3.839	9.9	20.5

495467 2014 TU_{73} 1 17.7 82°.16 2°.6/18.9 18

12 13	8 21.26	+12 9.2	1.868	2.659	15.1	21.8
12 23	8 16.32	+12 15.3	1.799	2.674	11.8	21.6
1 2	8 9.08	+12 34.1	1.752	2.689	7.9	21.4
1 12	8 0.27	+13 3.9	1.732	2.704	4.1	21.2
1 22	7 50.88	+13 41.5	1.741	2.718	3.0	21.2
2 1	7 42.03	+14 23.1	1.778	2.733	6.3	21.4
2 11	7 34.75	+15 4.8	1.843	2.747	10.1	21.7
2 21	7 29.73	+15 43.6	1.932	2.762	13.4	21.9

58101 1979 MV_4 1 17.7 269°.82 1°.5/18.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 24.02	+16 43.2	1.602	2.409	16.5	19.3
12 23	8 19.24	+16 37.7	1.506	2.393	12.9	19.0
1 2	8 11.44	+16 42.0	1.431	2.376	8.5	18.7
1 12	8 1.30	+16 54.1	1.383	2.359	3.6	18.4
1 22	7 49.99	+17 10.9	1.361	2.342	2.6	18.3
2 1	7 38.99	+17 29.1	1.368	2.325	7.6	18.6
2 11	7 29.78	+17 45.8	1.401	2.307	12.5	18.8
2 21	7 23.42	+17 59.4	1.455	2.289	16.7	19.0

291098 2005 YZ_{143} 1 17.7 189°.81 1°.3/17.1 18

12 13	8 27.29	+23 18.1	2.048	2.846	13.7	21.5
12 23	8 20.99	+23 38.1	1.960	2.845	10.5	21.3
1 2	8 12.13	+24 1.4	1.898	2.843	6.7	21.1
1 12	8 1.44	+24 24.0	1.863	2.841	2.6	20.8
1 22	7 49.96	+24 41.8	1.858	2.837	2.5	20.8
2 1	7 38.94	+24 51.9	1.884	2.833	6.6	21.0
2 11	7 29.55	+24 53.4	1.938	2.828	10.4	21.3
2 21	7 22.61	+24 47.1	2.017	2.822	13.8	21.5

47561 2000 AA_{147} 1 17.7 160°.10 4°.6/15.9 18

12 13	8 29.44	+33 29.5	2.094	2.893	13.4	18.2
12 23	8 22.65	+34 1.5	2.019	2.899	10.5	18.0
1 2	8 13.14	+34 28.8	1.969	2.904	7.3	17.8
1 12	8 1.77	+34 45.2	1.946	2.908	4.9	17.7
1 22	7 49.74	+34 46.3	1.953	2.912	5.3	17.7
2 1	7 38.40	+34 30.3	1.989	2.915	8.0	17.9
2 11	7 28.95	+33 59.0	2.052	2.918	11.1	18.1
2 21	7 22.17	+33 15.9	2.139	2.921	13.9	18.3

119054 2001 KY_{11} 1 17.7 152°.31 2°.2/16.6 18

12 13	8 27.62	+23 33.8	1.879	2.682	14.6	20.2
12 23	8 21.43	+24 31.5	1.805	2.692	11.1	20.0
1 2	8 12.49	+25 34.4	1.755	2.702	7.0	19.8
1 12	8 1.58	+26 36.4	1.734	2.710	3.1	19.6
1 22	7 49.87	+27 30.8	1.743	2.718	3.4	19.6
2 1	7 38.70	+28 13.1	1.781	2.725	7.3	19.9
2 11	7 29.33	+28 41.4	1.847	2.731	11.2	20.1
2 21	7 22.63	+28 56.5	1.936	2.737	14.5	20.3

519393 2011 SK_{30} 1 17.7 155°.43 3°.2/18.9 18

12 13	8 26.44	+11 36.9	2.124	2.894	14.2	22.0
12 23	8 19.99	+11 14.8	2.043	2.905	11.2	21.9
1 2	8 11.30	+11 2.8	1.986	2.914	7.7	21.7
1 12	8 1.08	+11 0.5	1.957	2.923	4.4	21.5
1 22	7 50.28	+11 6.4	1.957	2.931	3.5	21.4
2 1	7 39.96	+11 18.7	1.989	2.938	6.3	21.6
2 11	7 31.13	+11 35.0	2.049	2.943	9.8	21.8
2 21	7 24.47	+11 53.0	2.135	2.948	12.9	22.1

100599 1997 QV_4 1 17.7 276°.45 0°.7/17.9 18

12 13	8 23.65	+18 17.2	1.513	2.328	16.9	20.7
12 23	8 19.05	+18 22.0	1.426	2.318	13.1	20.5
1 2	8 11.33	+18 36.5	1.361	2.309	8.5	20.2
1 12	8 1.26	+18 57.4	1.320	2.299	3.3	19.8
1 22	7 50.07	+19 20.8	1.307	2.289	2.4	19.7
2 1	7 39.34	+19 42.5	1.322	2.279	7.7	20.0
2 11	7 30.55	+19 59.8	1.362	2.269	12.7	20.3
2 21	7 24.75	+20 11.4	1.423	2.259	16.9	20.5

114706 2003 GB_1 1 17.7 225°.10 3°.7/15.6 18

12 13	8 24.42	+31 3.6	2.522	3.320	11.4	20.4
12 23	8 18.65	+31 51.3	2.428	3.309	8.9	20.2
1 2	8 10.59	+32 38.0	2.359	3.297	6.1	20.0
1 12	8 0.88	+33 18.6	2.320	3.285	4.0	19.9
1 22	7 50.39	+33 48.3	2.310	3.271	4.4	19.9
2 1	7 40.18	+34 4.2	2.331	3.258	7.0	20.0
2 11	7 31.30	+34 5.9	2.380	3.244	9.9	20.2
2 21	7 24.53	+33 54.9	2.453	3.229	12.5	20.3

268113 2004 TG_1 1 17.7 105°.73 2°.3/18.8 18

12 13	8 20.53	+12 56.8	2.058	2.846	14.0	20.6
12 23	8 15.65	+13 0.5	1.980	2.855	10.9	20.4
1 2	8 8.62	+13 15.1	1.926	2.863	7.3	20.2
1 12	8 0.11	+13 39.1	1.899	2.871	3.7	20.0
1 22	7 51.02	+14 9.9	1.901	2.879	2.7	20.0
2 1	7 42.36	+14 44.2	1.932	2.887	5.9	20.2
2 11	7 35.10	+15 18.9	1.992	2.894	9.5	20.4
2 21	7 29.92	+15 51.4	2.075	2.902	12.7	20.6

62028 2000 RE_{53} 1 17.7 33°.75 1°.4/16.9 18

12 13	8 21.27	+21 43.7	1.838	2.651	14.4	19.4
12 23	8 16.69	+22 27.1	1.759	2.652	11.0	19.1
1 2	8 9.53	+23 17.6	1.704	2.654	6.9	18.9
1 12	8 0.52	+24 10.0	1.677	2.655	2.7	18.6
1 22	7 50.70	+24 58.8	1.677	2.656	2.7	18.6
2 1	7 41.34	+25 39.4	1.707	2.658	6.9	18.9
2 11	7 33.62	+26 9.3	1.763	2.659	10.9	19.1
2 21	7 28.37	+26 28.1	1.843	2.661	14.4	19.4

379513 2010 JG_{35} 1 17.7 343°.63 11°.7/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 26.87	+49 14.0	1.884	2.671	15.1	20.0
12 23	8 22.33	+51 14.0	1.824	2.664	13.3	19.9
1 2	8 13.85	+53 0.4	1.786	2.657	12.0	19.8
1 12	8 2.31	+54 21.4	1.772	2.650	11.7	19.8
1 22	7 49.28	+55 8.4	1.781	2.645	12.5	19.8
2 1	7 36.87	+55 17.8	1.814	2.640	14.1	19.9
2 11	7 27.10	+54 52.9	1.867	2.635	16.0	20.0
2 21	7 21.18	+54 0.7	1.937	2.632	17.9	20.2

503734 2016 LV_{21} 1 17.7 359°.74 4°.5/19.9 18

12 13	8 17.51	+ 6 51.3	2.199	2.969	13.8	21.4
12 23	8 13.29	+ 6 35.0	2.113	2.968	11.1	21.2
1 2	8 7.12	+ 6 32.5	2.049	2.968	8.2	21.0
1 12	7 59.58	+ 6 44.1	2.012	2.968	5.4	20.8
1 22	7 51.45	+ 7 8.6	2.003	2.968	4.5	20.8
2 1	7 43.65	+ 7 43.5	2.023	2.968	6.5	20.9
2 11	7 37.04	+ 8 25.3	2.070	2.968	9.4	21.1
2 21	7 32.28	+ 9 10.2	2.142	2.969	12.3	21.3

459225 2012 DO_{97} 1 17.7 315°.93 1°.0/18.2 16

12 13	8 18.97	+13 30.5	1.609	2.418	16.4	20.8
12 23	8 15.37	+14 30.2	1.518	2.406	12.7	20.6
1 2	8 8.98	+15 49.1	1.449	2.395	8.3	20.3
1 12	8 0.42	+17 23.0	1.407	2.384	3.4	20.0
1 22	7 50.75	+19 4.8	1.392	2.373	2.2	19.8
2 1	7 41.32	+20 45.9	1.406	2.363	7.3	20.1
2 11	7 33.52	+22 18.9	1.446	2.353	12.1	20.4
2 21	7 28.38	+23 38.9	1.509	2.344	16.2	20.6

147040 2002 RJ_{64} 1 17.7 156°.70 1°.9/16.9 18

12 13	8 28.07	+23 5.1	1.736	2.543	15.4	21.0
12 23	8 21.96	+23 46.9	1.662	2.551	11.8	20.8
1 2	8 12.91	+24 34.2	1.611	2.558	7.5	20.5
1 12	8 1.78	+25 21.1	1.587	2.564	3.1	20.3
1 22	7 49.80	+26 1.6	1.592	2.570	3.1	20.3
2 1	7 38.42	+26 31.2	1.627	2.575	7.5	20.6
2 11	7 29.00	+26 48.5	1.688	2.579	11.7	20.8
2 21	7 22.42	+26 54.3	1.773	2.582	15.3	21.0

128761 2004 RW_{190} 1 17.7 93°.97 0°.9/17.9 17

12 13	8 27.04	+17 17.3	1.623	2.425	16.5	20.7
12 23	8 20.94	+17 29.7	1.564	2.449	12.6	20.5
1 2	8 12.08	+17 51.5	1.528	2.472	8.0	20.3
1 12	8 1.40	+18 19.2	1.518	2.495	3.2	20.0
1 22	7 50.15	+18 48.5	1.536	2.517	2.2	20.0
2 1	7 39.72	+19 15.5	1.584	2.539	6.9	20.3
2 11	7 31.32	+19 37.9	1.658	2.560	11.1	20.6
2 21	7 25.68	+19 54.5	1.756	2.581	14.7	20.9

506317 2017 OW_{7} 1 17.7 169°.10 0°.0/17.7 18

12 13	8 19.48	+19 29.7	2.759	3.550	10.7	22.2
12 23	8 14.44	+19 46.3	2.673	3.553	8.2	22.1
1 2	8 7.68	+20 7.5	2.612	3.556	5.2	21.9
1 12	7 59.76	+20 31.1	2.580	3.558	1.9	21.6
1 22	7 51.36	+20 54.6	2.579	3.560	1.5	21.6
2 1	7 43.26	+21 15.7	2.609	3.561	4.7	21.8
2 11	7 36.21	+21 32.9	2.668	3.563	7.8	22.0
2 21	7 30.78	+21 45.4	2.754	3.563	10.4	22.2

415701 1997 EJ_{1} 1 17.7 256°.59 0°.4/17.8 17

12 13	8 22.17	+19 37.7	2.088	2.889	13.4	21.4
12 23	8 17.06	+19 34.9	1.996	2.882	10.3	21.2
1 2	8 9.62	+19 37.3	1.929	2.874	6.6	20.9
1 12	8 0.54	+19 42.5	1.889	2.867	2.5	20.6
1 22	7 50.74	+19 48.2	1.878	2.859	1.8	20.6
2 1	7 41.32	+19 52.0	1.897	2.852	6.0	20.8
2 11	7 33.32	+19 52.8	1.944	2.844	9.9	21.1
2 21	7 27.51	+19 50.0	2.015	2.836	13.2	21.3

359147 2009 BZ_{106} 1 17.7 13°.23 1°.3/18.1 18

12 13	8 18.65	+16 21.8	1.127	1.967	19.9	20.2
12 23	8 15.79	+16 34.3	1.066	1.970	15.3	20.0
1 2	8 9.44	+17 2.4	1.023	1.975	9.9	19.7
1 12	8 0.59	+17 42.2	1.003	1.981	4.0	19.4
1 22	7 50.74	+18 27.7	1.006	1.988	2.7	19.3
2 1	7 41.68	+19 12.5	1.035	1.997	8.5	19.7
2 11	7 35.04	+19 51.4	1.087	2.006	13.9	20.0
2 21	7 31.79	+20 21.6	1.158	2.017	18.4	20.3

502765 2015 DQ_{74} 1 17.7 277°.16 2°.7/19.2 17

12 13	8 17.48	+10 25.0	2.327	3.107	12.8	21.5
12 23	8 13.28	+10 40.2	2.232	3.099	10.1	21.3
1 2	8 7.15	+11 7.9	2.159	3.091	7.0	21.0
1 12	7 59.63	+11 46.9	2.114	3.083	3.9	20.8
1 22	7 51.46	+12 34.7	2.099	3.075	2.9	20.7
2 1	7 43.52	+13 27.8	2.113	3.067	5.6	20.9
2 11	7 36.69	+14 22.4	2.156	3.059	8.9	21.1
2 21	7 31.63	+15 15.1	2.224	3.051	12.0	21.3

371768 2007 GH_{62} 1 17.7 305°.83 0°.1/17.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 21.44	+19 51.6	1.884	2.692	14.3	21.0
12 23	8 16.75	+19 56.0	1.797	2.686	11.0	20.8
1 2	8 9.55	+20 6.5	1.733	2.680	7.0	20.6
1 12	8 0.55	+20 20.3	1.695	2.674	2.6	20.3
1 22	7 50.76	+20 34.3	1.686	2.668	2.0	20.2
2 1	7 41.39	+20 45.7	1.706	2.662	6.5	20.5
2 11	7 33.59	+20 52.7	1.753	2.656	10.6	20.7
2 21	7 28.17	+20 54.7	1.824	2.651	14.2	20.9

200385 2000 QH_{194} 1 17.7 143°.49 0°.1/17.6 18

12 13	8 25.26	+18 36.0	1.884	2.683	14.7	20.8
12 23	8 19.52	+19 11.0	1.809	2.693	11.2	20.6
1 2	8 11.23	+19 54.7	1.758	2.703	7.1	20.4
1 12	8 1.14	+20 42.8	1.734	2.713	2.6	20.1
1 22	7 50.33	+21 30.2	1.740	2.722	2.0	20.1
2 1	7 40.05	+22 12.5	1.777	2.730	6.5	20.4
2 11	7 31.45	+22 47.1	1.840	2.737	10.5	20.7
2 21	7 25.32	+23 12.9	1.928	2.744	14.0	20.9

15546 2000 EZ_{75} 1 17.7 194°.19 5°.0/15.6 18

12 13	8 28.34	+34 3.3	2.127	2.927	13.2	18.7
12 23	8 21.95	+34 45.0	2.047	2.926	10.4	18.5
1 2	8 12.81	+35 22.4	1.990	2.923	7.4	18.4
1 12	8 1.74	+35 49.1	1.961	2.921	5.2	18.2
1 22	7 49.88	+35 59.8	1.962	2.918	5.6	18.2
2 1	7 38.58	+35 52.4	1.991	2.914	8.2	18.4
2 11	7 29.11	+35 27.9	2.048	2.910	11.3	18.6
2 21	7 22.27	+34 50.0	2.127	2.905	14.1	18.8

4390 Madreteresa 1 17.7 236°.97 4°.7/15.8 18

12 13	8 29.42	+32 24.3	2.037	2.838	13.7	17.9
12 23	8 23.03	+33 3.8	1.942	2.823	10.7	17.7
1 2	8 13.68	+33 40.8	1.870	2.807	7.5	17.4
1 12	8 2.13	+34 8.5	1.827	2.791	4.9	17.3
1 22	7 49.54	+34 21.0	1.813	2.774	5.4	17.2
2 1	7 37.36	+34 15.3	1.828	2.756	8.4	17.4
2 11	7 27.00	+33 52.2	1.870	2.738	11.9	17.6
2 21	7 19.42	+33 15.0	1.935	2.719	15.1	17.7

495150 2012 DP_{76} 1 17.7 340°.97 1°.6/18.6 18

12 13	8 19.84	+12 15.0	1.704	2.504	16.0	20.7
12 23	8 15.77	+13 8.7	1.620	2.502	12.4	20.5
1 2	8 9.07	+14 20.4	1.558	2.500	8.2	20.2
1 12	8 0.42	+15 46.3	1.523	2.498	3.6	19.9
1 22	7 50.85	+17 20.2	1.516	2.497	2.3	19.9
2 1	7 41.62	+18 54.5	1.539	2.496	6.8	20.1
2 11	7 33.99	+20 22.4	1.588	2.495	11.2	20.4
2 21	7 28.84	+21 39.4	1.662	2.494	15.1	20.6

166895 2002 YD_{35} 1 17.7 84°.92 1°.9/16.4 18

12 13	8 20.72	+22 24.9	2.318	3.120	12.2	19.5
12 23	8 15.75	+23 39.3	2.248	3.136	9.2	19.4
1 2	8 8.70	+24 59.3	2.204	3.151	5.8	19.2
1 12	8 0.20	+26 19.3	2.190	3.166	2.5	19.0
1 22	7 51.09	+27 33.8	2.206	3.182	2.8	19.0
2 1	7 42.37	+28 38.2	2.254	3.197	6.1	19.3
2 11	7 34.95	+29 29.9	2.329	3.212	9.3	19.5
2 21	7 29.52	+30 8.6	2.430	3.226	12.0	19.7

194029 2001 SK_{64} 1 17.7 100°.57 1°.6/18.4 18

12 13	8 27.22	+14 43.5	1.682	2.476	16.4	21.3
12 23	8 20.98	+15 0.2	1.623	2.502	12.6	21.1
1 2	8 12.09	+15 28.6	1.586	2.527	8.2	20.9
1 12	8 1.44	+16 5.6	1.576	2.552	3.6	20.7
1 22	7 50.24	+16 46.5	1.596	2.576	2.4	20.6
2 1	7 39.82	+17 27.1	1.644	2.599	6.7	21.0
2 11	7 31.34	+18 3.9	1.720	2.622	10.8	21.3
2 21	7 25.51	+18 35.0	1.820	2.643	14.3	21.5

288674 2004 PC_{76} 1 17.7 147°.17 2°.2/18.5 18

12 13	8 26.12	+15 0.1	1.734	2.528	16.0	21.7
12 23	8 20.29	+14 47.9	1.658	2.536	12.4	21.5
1 2	8 11.78	+14 45.7	1.603	2.543	8.2	21.2
1 12	8 1.39	+14 51.8	1.576	2.550	3.9	21.0
1 22	7 50.26	+15 3.8	1.577	2.556	2.8	20.9
2 1	7 39.72	+15 19.0	1.607	2.561	6.9	21.2
2 11	7 30.98	+15 34.8	1.664	2.566	11.1	21.4
2 21	7 24.86	+15 49.4	1.744	2.571	14.7	21.7

429960 2012 VD_{29} 1 17.7 176°.91 2°.8/19.1 18

12 13	8 18.54	+11 12.4	2.638	3.411	11.7	21.6
12 23	8 13.76	+10 57.3	2.549	3.412	9.2	21.4
1 2	8 7.29	+10 50.9	2.484	3.412	6.4	21.2
1 12	7 59.67	+10 52.9	2.447	3.413	3.7	21.1
1 22	7 51.56	+11 2.2	2.440	3.413	3.0	21.0
2 1	7 43.74	+11 17.0	2.463	3.413	5.2	21.2
2 11	7 36.96	+11 35.5	2.516	3.413	8.0	21.3
2 21	7 31.77	+11 55.4	2.593	3.412	10.7	21.5

409486 2005 SR_{107} 1 17.7 58°.93 7°.6/21.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 22.59	+ 1 43.0	1.657	2.416	18.1	20.0
12 23	8 17.38	+ 0 53.9	1.605	2.443	14.9	19.9
1 2	8 9.76	+ 0 26.1	1.572	2.472	11.6	19.8
1 12	8 0.58	+ 0 21.8	1.563	2.500	8.7	19.7
1 22	7 50.94	+ 0 40.2	1.581	2.528	7.7	19.7
2 1	7 42.04	+ 1 17.8	1.625	2.556	9.1	19.8
2 11	7 34.90	+ 2 9.0	1.695	2.584	11.7	20.0
2 21	7 30.18	+ 3 7.3	1.788	2.612	14.5	20.3

364354 2006 UA_{229} 1 17.7 83°.04 6°.9/14.2 18

12 13	8 26.73	+34 58.0	1.745	2.559	15.1	20.1
12 23	8 21.32	+36 33.7	1.687	2.571	11.9	19.9
1 2	8 12.71	+38 5.3	1.653	2.584	8.8	19.8
1 12	8 1.80	+39 22.9	1.645	2.596	7.0	19.7
1 22	7 49.96	+40 18.1	1.665	2.608	7.8	19.7
2 1	7 38.82	+40 46.9	1.712	2.620	10.4	19.9
2 11	7 29.88	+40 50.5	1.784	2.632	13.3	20.1
2 21	7 24.07	+40 33.5	1.876	2.644	16.1	20.3

56311 1999 RA_{221} 1 17.7 138°.41 3°.1/16.4 18

12 13	8 29.17	+25 38.5	1.631	2.443	16.1	20.3
12 23	8 23.00	+26 32.2	1.564	2.454	12.2	20.1
1 2	8 13.68	+27 29.6	1.519	2.466	7.9	19.8
1 12	8 2.13	+28 23.2	1.501	2.476	3.8	19.6
1 22	7 49.72	+29 5.9	1.512	2.486	4.2	19.7
2 1	7 38.03	+29 33.3	1.552	2.495	8.3	19.9
2 11	7 28.52	+29 44.6	1.617	2.503	12.4	20.2
2 21	7 22.08	+29 42.1	1.705	2.511	15.9	20.4

320944 2008 HW 1 17.7 358°.12 2°.4/18.5 18

12 13	8 18.46	+14 46.8	1.345	2.170	18.1	20.6
12 23	8 15.24	+14 40.6	1.271	2.166	14.1	20.3
1 2	8 8.96	+14 48.2	1.217	2.164	9.4	20.0
1 12	8 0.45	+15 8.1	1.187	2.163	4.4	19.7
1 22	7 50.97	+15 36.6	1.182	2.162	3.1	19.7
2 1	7 42.07	+16 9.4	1.203	2.163	7.9	19.9
2 11	7 35.18	+16 42.0	1.248	2.165	12.8	20.2
2 21	7 31.26	+17 11.0	1.315	2.168	17.0	20.5

42542 1996 AX 1 17.7 13°.21 0°.7/17.4 18

12 13	8 19.53	+19 57.2	1.728	2.545	15.0	18.5
12 23	8 15.50	+20 35.1	1.653	2.547	11.4	18.2
1 2	8 8.85	+21 21.8	1.600	2.550	7.2	18.0
1 12	8 0.35	+22 12.7	1.573	2.552	2.7	17.7
1 22	7 51.06	+23 2.3	1.575	2.556	2.3	17.7
2 1	7 42.25	+23 45.7	1.605	2.560	6.9	18.0
2 11	7 35.12	+24 19.9	1.661	2.564	11.1	18.2
2 21	7 30.49	+24 43.9	1.740	2.568	14.7	18.5

365581 2010 TO_{119} 1 17.7 62°.50 8°.7/21.9 16

12 13	8 23.19	− 1 29.3	1.661	2.403	18.6	20.7
12 23	8 17.79	− 2 18.1	1.612	2.436	15.6	20.5
1 2	8 9.99	− 2 42.6	1.583	2.468	12.4	20.4
1 12	8 0.66	− 2 40.6	1.577	2.500	9.8	20.3
1 22	7 50.91	− 2 12.9	1.596	2.532	8.7	20.3
2 1	7 41.91	− 1 23.3	1.642	2.564	9.7	20.5
2 11	7 34.70	− 0 18.7	1.713	2.596	12.0	20.7
2 21	7 29.91	+ 0 53.8	1.807	2.627	14.6	20.9

96655 1999 JD_2 1 17.7 180°.32 0°.7/17.4 18

12 13	8 24.68	+20 1.5	1.889	2.692	14.5	19.8
12 23	8 19.24	+20 40.1	1.806	2.693	11.1	19.6
1 2	8 11.18	+21 26.7	1.747	2.694	7.0	19.4
1 12	8 1.21	+22 16.9	1.716	2.694	2.6	19.1
1 22	7 50.40	+23 5.2	1.713	2.694	2.3	19.1
2 1	7 40.02	+23 47.1	1.741	2.693	6.7	19.4
2 11	7 31.28	+24 19.9	1.796	2.691	10.8	19.6
2 21	7 25.02	+24 42.8	1.875	2.689	14.3	19.8

56866 2000 QN_{94} 1 17.7 25°.32 6°.0/15.6 18

12 13	8 26.36	+37 52.3	2.066	2.868	13.4	18.3
12 23	8 20.45	+38 21.4	1.997	2.874	10.7	18.2
1 2	8 11.82	+38 42.3	1.953	2.879	8.0	18.0
1 12	8 1.38	+38 48.9	1.934	2.885	6.1	17.9
1 22	7 50.36	+38 36.9	1.944	2.891	6.5	17.9
2 1	7 40.10	+38 5.5	1.982	2.898	8.7	18.1
2 11	7 31.80	+37 17.1	2.046	2.904	11.4	18.3
2 21	7 26.19	+36 16.3	2.132	2.912	14.0	18.5

303427 2005 AQ_6 1 17.7 46°.45 5°.4/16.9 18

12 13	8 33.28	+33 57.1	1.350	2.170	18.3	20.1
12 23	8 26.53	+33 57.8	1.292	2.183	14.2	19.9
1 2	8 15.97	+33 49.6	1.255	2.196	9.8	19.6
1 12	8 2.93	+33 25.2	1.242	2.210	6.0	19.5
1 22	7 49.27	+32 40.6	1.256	2.224	6.1	19.5
2 1	7 37.02	+31 36.9	1.298	2.239	9.8	19.8
2 11	7 27.76	+30 19.7	1.363	2.254	13.9	20.0
2 21	7 22.25	+28 55.9	1.451	2.269	17.6	20.3

178210 2006 VR_{55} 1 17.7 90°.86 0°.3/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 22.79	+19 49.4	1.776	2.586	15.0	20.4
12 23	8 17.82	+20 13.4	1.703	2.593	11.4	20.2
1 2	8 10.25	+20 45.0	1.652	2.600	7.2	20.0
1 12	8 0.85	+21 20.1	1.628	2.607	2.7	19.7
1 22	7 50.73	+21 54.2	1.633	2.614	2.1	19.7
2 1	7 41.16	+22 23.3	1.666	2.621	6.7	20.0
2 11	7 33.32	+22 45.3	1.726	2.627	10.8	20.3
2 21	7 27.99	+22 59.3	1.810	2.634	14.4	20.5

58218 1992 UZ_7 1 17.7 108°.59 0°.4/17.9 18

12 13	8 23.11	+17 56.3	2.047	2.843	13.8	19.1
12 23	8 17.63	+18 14.7	1.977	2.859	10.5	18.9
1 2	8 9.90	+18 40.5	1.931	2.875	6.7	18.7
1 12	8 0.67	+19 10.8	1.912	2.890	2.6	18.5
1 22	7 50.89	+19 41.9	1.923	2.905	1.8	18.5
2 1	7 41.65	+20 10.5	1.965	2.919	5.9	18.8
2 11	7 33.92	+20 34.6	2.034	2.933	9.5	19.0
2 21	7 28.40	+20 52.9	2.128	2.947	12.7	19.2

226227 2002 VV_{134} 1 17.7 124°.92 2°.6/16.5 18

12 13	8 28.49	+23 50.9	1.663	2.472	15.9	20.7
12 23	8 22.37	+24 54.8	1.598	2.489	12.0	20.5
1 2	8 13.23	+26 4.3	1.557	2.505	7.7	20.3
1 12	8 1.98	+27 11.9	1.544	2.520	3.5	20.1
1 22	7 49.91	+28 10.1	1.559	2.534	3.8	20.1
2 1	7 38.55	+28 53.8	1.603	2.548	8.0	20.4
2 11	7 29.27	+29 21.4	1.674	2.561	12.0	20.7
2 21	7 22.94	+29 34.3	1.768	2.573	15.5	20.9

41458 2000 NN_{14} 1 17.7 130°.90 0°.2/17.6 18

12 13	8 27.61	+20 13.4	1.956	2.751	14.4	20.5
12 23	8 21.12	+20 26.6	1.885	2.768	10.9	20.3
1 2	8 12.15	+20 45.3	1.839	2.784	6.9	20.1
1 12	8 1.51	+21 5.9	1.821	2.799	2.5	19.8
1 22	7 50.29	+21 24.8	1.833	2.814	2.0	19.8
2 1	7 39.71	+21 39.2	1.875	2.827	6.3	20.1
2 11	7 30.87	+21 47.9	1.945	2.840	10.1	20.4
2 21	7 24.48	+21 50.8	2.040	2.852	13.4	20.6

18110 HASI 1 17.7 156°.33 2°.2/18.6 18

12 13	8 25.06	+14 16.9	1.848	2.638	15.3	19.6
12 23	8 19.39	+14 13.8	1.768	2.644	11.9	19.4
1 2	8 11.18	+14 21.3	1.712	2.650	7.9	19.1
1 12	8 1.20	+14 37.6	1.682	2.655	3.8	18.9
1 22	7 50.50	+15 0.0	1.681	2.660	2.7	18.8
2 1	7 40.30	+15 25.3	1.710	2.664	6.6	19.1
2 11	7 31.76	+15 50.6	1.766	2.668	10.6	19.3
2 21	7 25.66	+16 13.8	1.847	2.671	14.1	19.6

378982 2008 US_{267} 1 17.7 131°.75 4°.0/15.6 18

12 13	8 22.64	+30 29.1	2.199	3.008	12.5	21.4
12 23	8 17.50	+31 21.2	2.123	3.010	9.7	21.3
1 2	8 9.97	+32 12.4	2.071	3.012	6.6	21.1
1 12	8 0.75	+32 57.0	2.048	3.014	4.2	20.9
1 22	7 50.83	+33 30.0	2.053	3.016	4.7	21.0
2 1	7 41.36	+33 48.3	2.088	3.018	7.4	21.1
2 11	7 33.42	+33 51.5	2.149	3.020	10.5	21.3
2 21	7 27.77	+33 41.4	2.234	3.022	13.2	21.5

431489 2007 TN_{58} 1 17.7 183°.24 7°.1/21.6 17

12 13	8 17.87	− 2 57.8	2.623	3.332	13.3	21.8
12 23	8 13.29	− 3 40.2	2.534	3.332	11.4	21.6
1 2	8 7.04	− 4 6.5	2.468	3.332	9.4	21.5
1 12	7 59.62	− 4 14.8	2.426	3.332	7.7	21.4
1 22	7 51.69	− 4 4.5	2.411	3.332	7.1	21.3
2 1	7 44.01	− 3 36.7	2.425	3.331	7.8	21.4
2 11	7 37.32	− 2 54.6	2.466	3.330	9.5	21.5
2 21	7 32.19	− 2 2.6	2.531	3.329	11.5	21.6

11743 Jachowski 1 17.7 29°.26 0°.4/17.6 18

12 13	8 20.96	+18 54.1	1.122	1.962	19.9	17.4
12 23	8 17.53	+19 27.4	1.068	1.974	15.1	17.2
1 2	8 10.54	+20 13.8	1.033	1.987	9.6	16.9
1 12	8 1.04	+21 7.0	1.022	2.001	3.5	16.6
1 22	7 50.65	+21 59.3	1.035	2.016	2.8	16.6
2 1	7 41.22	+22 43.9	1.073	2.032	8.7	17.0
2 11	7 34.34	+23 17.1	1.134	2.049	13.9	17.3
2 21	7 30.91	+23 37.8	1.215	2.067	18.2	17.6

52628 1997 WO_3 1 17.7 207°.22 0°.1/17.7 18

12 13	8 22.83	+19 33.9	1.950	2.753	14.1	19.0
12 23	8 17.71	+19 43.0	1.865	2.752	10.8	18.7
1 2	8 10.15	+19 58.4	1.804	2.750	6.9	18.5
1 12	8 0.83	+20 17.3	1.769	2.748	2.6	18.2
1 22	7 50.77	+20 36.3	1.764	2.745	1.9	18.2
2 1	7 41.14	+20 52.4	1.788	2.743	6.3	18.4
2 11	7 33.07	+21 3.8	1.840	2.740	10.3	18.7
2 21	7 27.33	+21 9.9	1.915	2.738	13.8	18.9

146592 2001 TQ_{143} 1 17.7 114.°97 2.°1/16.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 23.58	+24 10.6	1.917	2.727	14.1	20.8
12 23	8 18.33	+24 53.0	1.844	2.735	10.7	20.6
1 2	8 10.54	+25 39.3	1.796	2.743	6.8	20.4
1 12	8 0.97	+26 24.3	1.774	2.751	3.0	20.1
1 22	7 50.69	+27 2.9	1.782	2.759	3.1	20.2
2 1	7 40.94	+27 31.1	1.819	2.766	6.9	20.4
2 11	7 32.88	+27 47.6	1.883	2.773	10.7	20.7
2 21	7 27.27	+27 53.0	1.970	2.780	13.9	20.9

95293 2002 CB_{90} 1 17.7 153.°62 2.°4/19.2 18

12 13	8 19.96	+10 26.6	2.184	2.962	13.6	20.2
12 23	8 15.24	+10 59.6	2.099	2.966	10.7	20.0
1 2	8 8.46	+11 46.7	2.037	2.970	7.3	19.8
1 12	8 0.20	+12 45.7	2.003	2.973	3.8	19.6
1 22	7 51.29	+13 52.8	1.999	2.976	2.6	19.6
2 1	7 42.70	+15 3.4	2.025	2.979	5.7	19.8
2 11	7 35.36	+16 12.7	2.080	2.982	9.2	20.0
2 21	7 29.96	+17 17.1	2.160	2.984	12.4	20.2

255947 2006 TG_{17} 1 17.7 39.°02 3.°8/16.3 18

12 13	8 23.79	+26 55.4	1.380	2.212	17.3	20.0
12 23	8 19.26	+27 44.2	1.326	2.227	13.2	19.8
1 2	8 11.42	+28 35.2	1.293	2.243	8.5	19.6
1 12	8 1.34	+29 20.4	1.285	2.260	4.4	19.4
1 22	7 50.50	+29 52.8	1.304	2.277	4.8	19.5
2 1	7 40.59	+30 8.5	1.349	2.295	8.9	19.8
2 11	7 33.07	+30 7.5	1.418	2.313	13.1	20.0
2 21	7 28.76	+29 52.7	1.508	2.332	16.7	20.3

197639 2004 LJ_{2} 1 17.7 252.°59 1.°5/18.2 18

12 13	8 24.96	+16 47.2	1.557	2.365	16.9	20.8
12 23	8 20.02	+16 42.7	1.467	2.354	13.1	20.6
1 2	8 12.00	+16 48.3	1.399	2.344	8.6	20.3
1 12	8 1.64	+17 1.8	1.356	2.333	3.7	19.9
1 22	7 50.17	+17 19.8	1.341	2.322	2.6	19.8
2 1	7 39.11	+17 38.8	1.353	2.310	7.6	20.1
2 11	7 29.94	+17 55.9	1.392	2.299	12.5	20.4
2 21	7 23.69	+18 9.5	1.453	2.287	16.8	20.6

323129 2003 BH_{23} 1 17.7 35.°21 8.°2/22.1 18

12 13	8 18.55	+ 0 12.1	1.301	2.081	21.1	20.0
12 23	8 14.99	+ 0 0.9	1.251	2.103	17.4	19.8
1 2	8 8.58	+ 0 19.8	1.217	2.126	13.4	19.6
1 12	8 0.26	+ 1 9.6	1.206	2.150	9.8	19.5
1 22	7 51.32	+ 2 26.6	1.218	2.175	8.2	19.5
2 1	7 43.17	+ 4 3.2	1.256	2.201	9.7	19.6
2 11	7 37.04	+ 5 49.0	1.319	2.227	12.9	19.9
2 21	7 33.68	+ 7 34.6	1.403	2.254	16.3	20.2

21580 Portalatin 1 17.7 156.°06 0.°9/17.2 18

12 13	8 21.19	+21 50.2	2.251	3.053	12.5	18.2
12 23	8 16.19	+22 18.6	2.169	3.056	9.5	18.0
1 2	8 9.05	+22 51.8	2.111	3.058	6.0	17.8
1 12	8 0.42	+23 26.1	2.082	3.061	2.3	17.6
1 22	7 51.17	+23 57.7	2.083	3.063	2.1	17.6
2 1	7 42.30	+24 23.5	2.114	3.065	5.8	17.8
2 11	7 34.78	+24 41.9	2.173	3.066	9.3	18.0
2 21	7 29.29	+24 52.5	2.256	3.068	12.3	18.2

30475 2000 OA_{32} 1 17.7 161.°94 3.°7/20.4 18

12 13	8 17.39	+ 5 8.4	2.744	3.493	11.8	18.9
12 23	8 12.88	+ 5 24.8	2.654	3.496	9.6	18.8
1 2	8 6.76	+ 5 55.0	2.587	3.499	7.0	18.6
1 12	7 59.54	+ 6 38.1	2.549	3.502	4.6	18.5
1 22	7 51.84	+ 7 32.2	2.540	3.504	3.7	18.4
2 1	7 44.38	+ 8 34.1	2.562	3.507	5.3	18.5
2 11	7 37.86	+ 9 40.1	2.613	3.509	7.9	18.7
2 21	7 32.83	+10 46.4	2.692	3.511	10.3	18.8

372914 2011 BD 1 17.7 348.°44 0.°1/17.6 18

12 13	8 20.41	+18 35.3	1.801	2.612	14.8	21.3
12 23	8 16.12	+19 9.3	1.720	2.610	11.3	21.1
1 2	8 9.27	+19 52.8	1.661	2.609	7.2	20.8
1 12	8 0.57	+20 42.0	1.629	2.608	2.7	20.5
1 22	7 51.06	+21 31.9	1.626	2.607	2.1	20.5
2 1	7 41.96	+22 17.5	1.651	2.606	6.7	20.8
2 11	7 34.45	+22 55.6	1.703	2.606	10.8	21.0
2 21	7 29.37	+23 24.6	1.778	2.606	14.5	21.2

499927 2011 HR_{22} 1 17.7 247.°82 5.°4/20.5 17

12 13	8 18.45	+ 3 12.1	2.437	3.182	13.3	22.2
12 23	8 13.96	+ 2 50.5	2.336	3.171	11.0	22.0
1 2	8 7.61	+ 2 43.3	2.258	3.159	8.5	21.8
1 12	7 59.91	+ 2 51.7	2.206	3.147	6.2	21.7
1 22	7 51.57	+ 3 15.3	2.182	3.135	5.4	21.6
2 1	7 43.42	+ 3 52.1	2.188	3.123	6.8	21.7
2 11	7 36.30	+ 4 38.9	2.221	3.110	9.4	21.8
2 21	7 30.88	+ 5 31.4	2.280	3.097	12.0	22.0

104600 2000 GP_{94} 1 17.7 166.°62 4.°3/20.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 20.76	+ 5 3.4	2.348	3.099	13.6	19.5
12 23	8 15.67	+ 5 11.9	2.261	3.104	11.0	19.3
1 2	8 8.65	+ 5 35.9	2.196	3.108	8.1	19.1
1 12	8 0.28	+ 6 15.0	2.159	3.112	5.3	19.0
1 22	7 51.32	+ 7 7.1	2.151	3.115	4.3	18.9
2 1	7 42.66	+ 8 8.6	2.173	3.117	6.2	19.0
2 11	7 35.17	+ 9 15.1	2.224	3.119	9.0	19.2
2 21	7 29.48	+10 22.2	2.301	3.121	11.9	19.4

51724 2001 KJ_{39} 1 17.7 206.°93 0.°1/17.7 18

12 13	8 22.26	+17 4.8	2.004	2.802	14.0	19.4
12 23	8 17.34	+17 52.7	1.915	2.798	10.7	19.2
1 2	8 9.99	+18 51.7	1.849	2.794	6.9	19.0
1 12	8 0.85	+19 57.8	1.812	2.790	2.6	18.7
1 22	7 50.86	+21 5.4	1.804	2.785	1.9	18.6
2 1	7 41.15	+22 9.4	1.826	2.780	6.3	18.9
2 11	7 32.88	+23 5.6	1.877	2.775	10.3	19.1
2 21	7 26.85	+23 52.0	1.952	2.769	13.8	19.4

367385 2008 KT_{5} 1 17.7 143.°11 1.°3/16.9 18

12 13	8 22.22	+21 33.7	2.164	2.966	12.9	21.2
12 23	8 17.08	+22 25.6	2.086	2.973	9.8	21.0
1 2	8 9.68	+23 23.8	2.033	2.980	6.2	20.8
1 12	8 0.69	+24 23.5	2.008	2.986	2.4	20.6
1 22	7 51.01	+25 19.4	2.013	2.992	2.5	20.6
2 1	7 41.73	+26 7.5	2.049	2.997	6.2	20.8
2 11	7 33.85	+26 45.2	2.113	3.002	9.7	21.0
2 21	7 28.11	+27 12.0	2.201	3.007	12.8	21.3

252388 2001 SE_{353} 1 17.7 127.°07 4.°7/15.3 18

12 13	8 25.64	+31 11.5	1.979	2.788	13.7	20.7
12 23	8 20.04	+32 18.4	1.911	2.797	10.6	20.5
1 2	8 11.73	+33 24.2	1.866	2.805	7.3	20.3
1 12	8 1.48	+34 21.5	1.849	2.813	4.9	20.2
1 22	7 50.45	+35 4.0	1.862	2.821	5.5	20.2
2 1	7 39.98	+35 28.2	1.902	2.828	8.3	20.4
2 11	7 31.31	+35 34.1	1.969	2.835	11.5	20.6
2 21	7 25.28	+35 24.2	2.059	2.842	14.3	20.8

450777 2007 SA 1 17.7 43.°88 9.°1/22.1 17

12 13	8 20.95	− 0 13.7	1.245	2.022	21.9	20.6
12 23	8 16.86	− 0 45.9	1.198	2.047	18.2	20.4
1 2	8 9.79	− 0 47.6	1.168	2.073	14.2	20.2
1 12	8 0.74	− 0 16.7	1.160	2.099	10.7	20.1
1 22	7 51.08	+ 0 44.1	1.174	2.126	9.1	20.1
2 1	7 42.32	+ 2 7.7	1.214	2.154	10.5	20.3
2 11	7 35.73	+ 3 44.0	1.278	2.182	13.6	20.5
2 21	7 32.07	+ 5 23.0	1.363	2.210	16.9	20.8

206417 2003 SP_{132} 1 17.7 186.°83 0.°5/17.9 18

12 13	8 24.47	+17 46.1	2.084	2.876	13.7	21.9
12 23	8 18.83	+18 2.8	1.996	2.876	10.5	21.7
1 2	8 10.83	+18 27.5	1.932	2.876	6.8	21.4
1 12	8 1.14	+18 57.0	1.897	2.874	2.6	21.2
1 22	7 50.71	+19 28.0	1.891	2.872	1.8	21.1
2 1	7 40.65	+19 57.0	1.915	2.869	6.0	21.4
2 11	7 32.05	+20 21.6	1.968	2.866	9.9	21.6
2 21	7 25.68	+20 40.7	2.046	2.862	13.3	21.8

292810 2006 UA_{251} 1 17.7 142.°89 0.°8/18.1 18

12 13	8 24.16	+17 3.3	2.262	3.049	12.9	23.1
12 23	8 18.28	+17 16.4	2.185	3.062	9.9	22.9
1 2	8 10.29	+17 36.8	2.133	3.074	6.4	22.7
1 12	8 0.88	+18 1.8	2.108	3.085	2.6	22.4
1 22	7 50.94	+18 28.5	2.115	3.096	1.7	22.4
2 1	7 41.44	+18 54.1	2.152	3.106	5.5	22.7
2 11	7 33.32	+19 16.5	2.218	3.115	9.0	22.9
2 21	7 27.24	+19 34.5	2.310	3.123	12.0	23.1

260524 2005 EL_{115} 1 17.7 205.°05 2.°8/19.1 18

12 13	8 22.24	+11 12.2	2.072	2.851	14.2	21.9
12 23	8 17.15	+11 19.2	1.979	2.847	11.2	21.6
1 2	8 9.78	+11 38.9	1.910	2.842	7.7	21.4
1 12	8 0.76	+12 10.1	1.868	2.837	4.1	21.2
1 22	7 50.98	+12 50.2	1.855	2.831	3.1	21.1
2 1	7 41.49	+13 35.5	1.872	2.825	6.2	21.3
2 11	7 33.34	+14 22.3	1.917	2.818	9.9	21.5
2 21	7 27.31	+15 7.3	1.987	2.810	13.3	21.7

394884 2008 UC_{146} 1 17.7 167.°15 2.°6/18.8 18

12 13	8 24.98	+12 51.8	1.841	2.628	15.5	22.3
12 23	8 19.39	+12 52.3	1.760	2.633	12.1	22.1
1 2	8 11.26	+13 4.9	1.700	2.636	8.2	21.8
1 12	8 1.31	+13 28.1	1.668	2.640	4.1	21.6
1 22	7 50.60	+13 58.9	1.664	2.642	3.0	21.5
2 1	7 40.34	+14 33.9	1.690	2.644	6.7	21.8
2 11	7 31.72	+15 9.3	1.744	2.646	10.7	22.0
2 21	7 25.53	+15 42.5	1.821	2.646	14.3	22.2

78429 Baschek 1 17.7 120°.56 2°.7/16.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 24.23	+28 34.8	2.330	3.132	12.1	20.2
12 23	8 18.40	+28 54.8	2.255	3.140	9.3	20.1
1 2	8 10.39	+29 13.7	2.206	3.149	6.1	19.9
1 12	8 0.92	+29 27.3	2.185	3.157	3.2	19.7
1 22	7 50.92	+29 32.4	2.193	3.165	3.4	19.7
2 1	7 41.46	+29 27.2	2.232	3.173	6.3	19.9
2 11	7 33.48	+29 12.0	2.299	3.181	9.4	20.1
2 21	7 27.65	+28 48.5	2.391	3.188	12.2	20.3

63896 2001 SE_9 1 17.7 89°.60 3°.1/16.5 18

12 13	8 28.39	+25 15.0	1.496	2.314	16.9	19.2
12 23	8 22.49	+26 9.7	1.440	2.335	12.8	19.0
1 2	8 13.39	+27 8.1	1.407	2.355	8.2	18.8
1 12	8 2.09	+28 2.4	1.400	2.375	3.9	18.6
1 22	7 50.07	+28 45.3	1.421	2.395	4.2	18.6
2 1	7 38.96	+29 12.5	1.470	2.415	8.4	18.9
2 11	7 30.19	+29 23.6	1.544	2.434	12.6	19.2
2 21	7 24.59	+29 20.9	1.640	2.453	16.1	19.5

55179 2001 QT_{276} 1 17.7 81°.60 6°.9/14.7 18

12 13	8 30.46	+42 40.4	2.397	3.179	12.5	18.7
12 23	8 23.23	+43 29.8	2.350	3.205	10.2	18.5
1 2	8 13.43	+44 8.2	2.327	3.230	8.1	18.4
1 12	8 2.00	+44 29.3	2.331	3.256	6.9	18.4
1 22	7 50.17	+44 29.4	2.363	3.281	7.3	18.5
2 1	7 39.22	+44 8.0	2.423	3.306	8.9	18.6
2 11	7 30.25	+43 27.8	2.509	3.330	10.9	18.8
2 21	7 23.92	+42 33.7	2.618	3.355	12.8	19.0

419988 2011 CK_{29} 1 17.7 35°.42 1°.0/17.4 18

12 13	8 22.50	+22 22.1	1.566	2.388	16.1	21.1
12 23	8 17.86	+22 34.7	1.502	2.399	12.2	20.9
1 2	8 10.38	+22 52.3	1.461	2.411	7.7	20.7
1 12	8 0.97	+23 10.6	1.445	2.424	2.9	20.4
1 22	7 50.90	+23 25.3	1.457	2.437	2.5	20.4
2 1	7 41.57	+23 33.4	1.496	2.451	7.2	20.8
2 11	7 34.24	+23 33.8	1.561	2.466	11.5	21.0
2 21	7 29.67	+23 27.1	1.648	2.480	15.2	21.3

59600 1999 JX_{62} 1 17.7 134°.45 0°.3/17.5 18

12 13	8 21.54	+19 17.4	2.000	2.804	13.8	18.9
12 23	8 16.70	+19 52.3	1.921	2.808	10.5	18.7
1 2	8 9.52	+20 35.2	1.865	2.812	6.7	18.5
1 12	8 0.66	+21 22.0	1.836	2.815	2.4	18.2
1 22	7 51.09	+22 8.2	1.837	2.818	2.0	18.2
2 1	7 41.94	+22 49.6	1.868	2.822	6.2	18.5
2 11	7 34.27	+23 23.6	1.926	2.825	10.0	18.7
2 21	7 28.85	+23 48.9	2.009	2.828	13.4	18.9

406117 2006 VB_{50} 1 17.7 92°.36 5°.0/19.7 18

12 13	8 24.57	+ 7 41.7	1.908	2.676	15.7	20.7
12 23	8 18.70	+ 7 2.9	1.843	2.698	12.5	20.5
1 2	8 10.59	+ 6 38.1	1.801	2.720	9.1	20.4
1 12	8 0.99	+ 6 28.1	1.785	2.741	6.0	20.2
1 22	7 50.91	+ 6 32.1	1.798	2.762	5.1	20.2
2 1	7 41.46	+ 6 48.0	1.840	2.783	7.2	20.4
2 11	7 33.61	+ 7 12.2	1.909	2.803	10.3	20.6
2 21	7 28.02	+ 7 41.2	2.002	2.823	13.3	20.8

309825 2009 BM_{157} 1 17.7 278°.28 0°.7/18.0 18

12 13	8 22.11	+17 1.9	1.642	2.452	16.0	21.2
12 23	8 17.78	+17 22.3	1.550	2.439	12.4	20.9
1 2	8 10.57	+17 54.4	1.480	2.426	8.1	20.6
1 12	8 1.16	+18 35.0	1.435	2.413	3.2	20.3
1 22	7 50.67	+19 19.3	1.419	2.400	2.2	20.2
2 1	7 40.49	+20 2.5	1.431	2.387	7.3	20.5
2 11	7 32.01	+20 40.4	1.468	2.375	12.0	20.7
2 21	7 26.26	+21 10.9	1.528	2.362	16.1	21.0

131881 2002 AZ_{165} 1 17.7 275°.37 1°.9/18.4 18

12 13	8 22.54	+15 7.7	1.580	2.387	16.7	20.2
12 23	8 18.11	+15 12.0	1.493	2.379	13.0	19.9
1 2	8 10.76	+15 28.7	1.427	2.371	8.6	19.6
1 12	8 1.23	+15 55.8	1.387	2.363	3.9	19.3
1 22	7 50.67	+16 29.5	1.375	2.355	2.7	19.2
2 1	7 40.51	+17 5.6	1.390	2.347	7.4	19.5
2 11	7 32.15	+17 40.0	1.430	2.339	12.1	19.8
2 21	7 26.55	+18 10.0	1.494	2.331	16.2	20.0

34965 3221 T_{-2} 1 17.7 171°.59 0°.0/17.8 18

12 13	8 19.37	+19 13.8	2.838	3.627	10.5	20.4
12 23	8 14.39	+19 32.7	2.750	3.630	8.0	20.3
1 2	8 7.74	+19 56.5	2.688	3.632	5.1	20.1
1 12	7 59.95	+20 22.8	2.656	3.634	1.9	19.9
1 22	7 51.69	+20 49.1	2.654	3.635	1.4	19.8
2 1	7 43.71	+21 13.2	2.684	3.636	4.6	20.0
2 11	7 36.74	+21 33.4	2.743	3.637	7.6	20.2
2 21	7 31.33	+21 48.9	2.828	3.638	10.2	20.4

377512 2005 EV_{295} 1 17.7 270°.87 3°.7/15.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 21.30	+29 2.4	2.237	3.046	12.3	20.4
12 23	8 16.57	+30 4.2	2.153	3.041	9.5	20.2
1 2	8 9.49	+31 7.3	2.094	3.036	6.4	20.0
1 12	8 0.69	+32 5.8	2.062	3.031	4.0	19.8
1 22	7 51.10	+32 54.2	2.061	3.025	4.5	19.9
2 1	7 41.83	+33 28.5	2.088	3.020	7.3	20.0
2 11	7 33.96	+33 47.6	2.143	3.015	10.4	20.2
2 21	7 28.30	+33 52.4	2.221	3.009	13.3	20.4

355888 2008 WB_{42} 1 17.7 285°.36 3°.5/16.4 18

12 13	8 24.81	+26 0.0	1.519	2.343	16.4	21.0
12 23	8 20.42	+26 47.4	1.425	2.322	12.7	20.8
1 2	8 12.60	+27 40.6	1.352	2.301	8.4	20.4
1 12	8 2.05	+28 32.3	1.305	2.281	4.2	20.1
1 22	7 50.05	+29 14.8	1.285	2.260	4.7	20.1
2 1	7 38.32	+29 41.8	1.292	2.239	9.2	20.3
2 11	7 28.62	+29 51.3	1.324	2.218	14.0	20.5
2 21	7 22.19	+29 45.0	1.376	2.197	18.3	20.7

109845 2001 RZ_{127} 1 17.7 277°.37 3°.1/19.5 18

12 13	8 17.67	+ 9 15.0	2.328	3.102	13.0	19.7
12 23	8 13.46	+ 9 25.1	2.236	3.099	10.3	19.5
1 2	8 7.34	+ 9 48.1	2.167	3.095	7.2	19.3
1 12	7 59.87	+10 23.1	2.126	3.091	4.2	19.1
1 22	7 51.79	+11 7.9	2.113	3.087	3.2	19.0
2 1	7 43.97	+11 59.1	2.131	3.083	5.7	19.1
2 11	7 37.26	+12 52.9	2.177	3.079	8.8	19.3
2 21	7 32.31	+13 45.8	2.248	3.075	11.8	19.5

205242 2000 QQ_{185} 1 17.7 81°.60 3°.0/16.6 17

12 13	8 29.22	+25 24.1	1.541	2.356	16.7	19.6
12 23	8 22.93	+26 14.6	1.491	2.384	12.6	19.4
1 2	8 13.57	+27 7.8	1.464	2.411	8.0	19.2
1 12	8 2.17	+27 56.2	1.463	2.439	3.8	19.0
1 22	7 50.19	+28 33.4	1.490	2.465	4.0	19.1
2 1	7 39.19	+28 55.7	1.546	2.492	8.1	19.4
2 11	7 30.52	+29 2.9	1.628	2.517	12.1	19.7
2 21	7 24.92	+28 57.6	1.732	2.543	15.5	20.0

368595 2004 RP_{88} 1 17.7 152°.05 2°.7/19.2 18

12 13	8 21.69	+10 45.9	2.671	3.434	11.8	22.4
12 23	8 16.11	+10 40.0	2.587	3.445	9.3	22.3
1 2	8 8.82	+10 43.4	2.529	3.455	6.4	22.1
1 12	8 0.37	+10 55.2	2.499	3.464	3.7	21.9
1 22	7 51.47	+11 14.1	2.499	3.472	2.9	21.9
2 1	7 42.91	+11 38.0	2.531	3.480	5.1	22.1
2 11	7 35.43	+12 4.4	2.593	3.487	7.9	22.2
2 21	7 29.59	+12 31.4	2.680	3.493	10.5	22.4

381667 2009 BT_{28} 1 17.7 252°.22 2°.1/17.0 18

12 13	8 25.97	+28 32.3	2.410	3.207	11.9	20.6
12 23	8 19.69	+28 24.1	2.320	3.203	9.1	20.4
1 2	8 11.23	+28 13.4	2.255	3.198	6.0	20.2
1 12	8 1.29	+27 56.9	2.220	3.194	2.8	19.9
1 22	7 50.79	+27 32.5	2.215	3.190	2.8	19.9
2 1	7 40.79	+26 59.6	2.240	3.185	6.0	20.1
2 11	7 32.26	+26 19.3	2.295	3.181	9.2	20.3
2 21	7 25.85	+25 33.5	2.375	3.177	12.1	20.5

226909 2004 TC_{196} 1 17.7 131°.02 0°.5/17.5 18

12 13	8 22.76	+21 7.4	2.279	3.076	12.5	21.5
12 23	8 17.29	+21 26.0	2.202	3.086	9.5	21.3
1 2	8 9.73	+21 49.1	2.151	3.096	6.0	21.1
1 12	8 0.74	+22 13.5	2.127	3.106	2.2	20.9
1 22	7 51.21	+22 35.9	2.134	3.115	1.8	20.8
2 1	7 42.14	+22 53.7	2.172	3.124	5.6	21.1
2 11	7 34.44	+23 5.5	2.237	3.132	9.0	21.3
2 21	7 28.76	+23 11.2	2.328	3.140	12.0	21.5

364230 2006 SN_{73} 1 17.7 131°.34 2°.5/16.6 18

12 13	8 24.92	+25 18.2	1.897	2.707	14.2	21.8
12 23	8 19.45	+25 59.5	1.824	2.714	10.8	21.6
1 2	8 11.35	+26 43.9	1.775	2.722	6.9	21.3
1 12	8 1.40	+27 25.7	1.753	2.729	3.2	21.1
1 22	7 50.72	+27 59.7	1.760	2.735	3.4	21.1
2 1	7 40.58	+28 22.2	1.796	2.742	7.2	21.4
2 11	7 32.19	+28 32.3	1.860	2.748	10.9	21.6
2 21	7 26.35	+28 31.1	1.946	2.753	14.2	21.8

22232 2311 T_{-3} 1 17.7 193°.29 4°.2/19.8 18

12 13	8 19.03	+ 7 20.5	2.295	3.061	13.4	18.9
12 23	8 14.45	+ 7 3.1	2.207	3.060	10.8	18.7
1 2	8 7.95	+ 6 58.5	2.141	3.060	7.9	18.5
1 12	8 0.11	+ 7 6.8	2.103	3.059	5.2	18.4
1 22	7 51.67	+ 7 27.2	2.093	3.058	4.3	18.3
2 1	7 43.55	+ 7 57.2	2.112	3.057	6.3	18.4
2 11	7 36.58	+ 8 33.8	2.159	3.056	9.2	18.6
2 21	7 31.42	+ 9 13.5	2.232	3.055	12.0	18.8

456190 2006 HM_{89} 1 17.7 224.°39 4.°0/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 25.69	+26 47.9	1.894	2.704	14.2	21.3
12 23	8 20.46	+28 15.1	1.806	2.696	10.9	21.0
1 2	8 12.30	+29 48.2	1.743	2.687	7.3	20.8
1 12	8 1.88	+31 19.1	1.707	2.677	4.3	20.6
1 22	7 50.29	+32 39.2	1.701	2.668	5.0	20.6
2 1	7 38.94	+33 42.0	1.725	2.657	8.5	20.8
2 11	7 29.26	+34 24.8	1.775	2.646	12.3	21.0
2 21	7 22.28	+34 48.7	1.848	2.635	15.6	21.2

34075 2000 OE_{60} 1 17.7 123.°52 1.°4/18.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.74	+14 24.7	2.646	3.428	11.4	19.5
12 23	8 13.96	+14 35.6	2.565	3.437	8.8	19.3
1 2	8 7.50	+14 54.4	2.509	3.446	5.8	19.1
1 12	7 59.90	+15 19.5	2.481	3.455	2.7	19.0
1 22	7 51.85	+15 48.5	2.484	3.464	1.9	18.9
2 1	7 44.13	+16 19.0	2.518	3.472	4.8	19.1
2 11	7 37.46	+16 48.6	2.581	3.480	7.8	19.3
2 21	7 32.40	+17 15.8	2.669	3.488	10.4	19.5

272121 2005 LE_{40} 1 17.7 152.°97 0.°0/17.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 27.04	+18 20.2	1.727	2.528	15.8	22.2
12 23	8 21.20	+18 52.6	1.652	2.536	12.1	21.9
1 2	8 12.54	+19 34.7	1.599	2.544	7.7	21.7
1 12	8 1.88	+20 21.9	1.573	2.552	2.9	21.4
1 22	7 50.38	+21 9.0	1.577	2.558	2.1	21.4
2 1	7 39.44	+21 51.0	1.610	2.564	6.9	21.7
2 11	7 30.36	+22 25.0	1.670	2.569	11.3	22.0
2 21	7 23.98	+22 50.0	1.754	2.573	15.0	22.2

244647 2003 FF_{96} 1 17.7 291.°93 4.°4/19.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.69	+11 5.9	1.470	2.271	18.0	20.4
12 23	8 18.37	+10 37.5	1.385	2.263	14.4	20.1
1 2	8 11.02	+10 23.7	1.320	2.256	10.1	19.8
1 12	8 1.40	+10 25.2	1.280	2.248	5.9	19.6
1 22	7 50.71	+10 40.6	1.266	2.240	4.7	19.5
2 1	7 40.44	+11 6.8	1.278	2.232	8.3	19.7
2 11	7 32.05	+11 39.6	1.315	2.225	12.9	19.9
2 21	7 26.55	+12 14.6	1.374	2.217	17.0	20.1

207572 2006 PQ_{16} 1 17.7 172.°92 0.°2/17.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.87	+19 1.3	2.845	3.633	10.5	21.0
12 23	8 14.76	+19 10.9	2.757	3.635	8.0	20.9
1 2	8 8.00	+19 25.0	2.695	3.637	5.1	20.7
1 12	8 0.10	+19 41.6	2.661	3.639	1.9	20.5
1 22	7 51.73	+19 58.5	2.659	3.640	1.4	20.4
2 1	7 43.66	+20 13.9	2.688	3.641	4.6	20.7
2 11	7 36.61	+20 26.4	2.746	3.642	7.5	20.8
2 21	7 31.12	+20 35.1	2.831	3.642	10.1	21.0

458452 2011 BR_{15} 1 17.7 189.°90 51.°0/13.4 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	9 28.28	−20 24.0	0.296	1.100	59.8	19.7
12 23	9 17.36	−27 4.8	0.273	1.111	55.8	19.4
1 2	8 55.75	−33 29.9	0.251	1.115	52.6	19.2
1 12	8 21.02	−38 46.4	0.233	1.113	51.1	19.0
1 22	7 34.18	−41 44.0	0.221	1.104	52.1	18.9
2 1	6 43.01	−41 29.1	0.215	1.089	55.9	18.9
2 11	5 58.00	−38 19.3	0.212	1.067	62.2	19.0
2 21	5 23.37	−33 18.2	0.211	1.039	70.4	19.2

258094 2001 QJ_{134} 1 17.7 190.°27 5.°6/20.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.44	+ 4 12.0	2.304	3.049	14.0	21.3
12 23	8 17.02	+ 3 32.9	2.213	3.048	11.5	21.1
1 2	8 9.59	+ 3 7.3	2.144	3.046	8.8	21.0
1 12	8 0.74	+ 2 56.7	2.102	3.044	6.4	20.8
1 22	7 51.25	+ 3 1.1	2.089	3.041	5.7	20.8
2 1	7 42.07	+ 3 19.3	2.105	3.038	7.2	20.9
2 11	7 34.08	+ 3 48.2	2.150	3.034	9.8	21.0
2 21	7 27.96	+ 4 24.2	2.219	3.029	12.5	21.2

15585 2000 GR_{74} 1 17.7 137.°32 4.°8/15.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 30.62	+31 33.2	1.926	2.728	14.3	18.6
12 23	8 23.85	+32 34.7	1.861	2.743	11.1	18.4
1 2	8 14.16	+33 33.9	1.820	2.757	7.6	18.3
1 12	8 2.46	+34 23.2	1.807	2.771	5.1	18.1
1 22	7 50.01	+34 56.3	1.824	2.783	5.6	18.2
2 1	7 38.26	+35 10.1	1.869	2.795	8.5	18.4
2 11	7 28.54	+35 5.5	1.941	2.806	11.7	18.6
2 21	7 21.67	+34 45.9	2.036	2.816	14.6	18.8

369774 2012 GA_{23} 1 17.7 4.°41 1.°9/16.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.54	+19 15.6	1.441	2.270	16.9	19.9
12 23	8 15.40	+20 44.4	1.368	2.269	12.8	19.6
1 2	8 9.22	+22 28.3	1.317	2.270	8.1	19.3
1 12	8 0.75	+24 19.3	1.292	2.271	3.2	19.1
1 22	7 51.21	+26 7.3	1.295	2.273	3.5	19.1
2 1	7 42.12	+27 42.7	1.325	2.277	8.4	19.4
2 11	7 34.96	+28 59.5	1.380	2.281	13.0	19.7
2 21	7 30.75	+29 56.0	1.456	2.286	17.0	19.9

56116 1999 CZ_{7} 1 17.7 246.°64 9.°4/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 39.98	+45 32.4	1.998	2.771	14.9	18.2
12 23	8 31.93	+46 33.7	1.907	2.751	12.7	18.0
1 2	8 19.87	+47 22.9	1.838	2.730	10.6	17.9
1 12	8 4.75	+47 48.9	1.795	2.709	9.5	17.8
1 22	7 48.26	+47 43.3	1.779	2.686	10.0	17.7
2 1	7 32.50	+47 3.4	1.790	2.663	12.0	17.8
2 11	7 19.44	+45 53.4	1.826	2.639	14.6	17.9
2 21	7 10.25	+44 21.6	1.883	2.614	17.3	18.1

253963 2004 DN_{50} 1 17.7 2.°30 0.°6/17.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.74	+19 36.8	1.447	2.269	17.2	19.8
12 23	8 18.40	+19 24.7	1.372	2.268	13.2	19.5
1 2	8 10.97	+19 19.6	1.318	2.267	8.5	19.3
1 12	8 1.35	+19 18.9	1.289	2.268	3.3	19.0
1 22	7 50.83	+19 19.5	1.287	2.269	2.3	18.9
2 1	7 40.96	+19 18.9	1.312	2.270	7.6	19.2
2 11	7 33.16	+19 15.6	1.361	2.272	12.4	19.5
2 21	7 28.33	+19 8.9	1.433	2.275	16.5	19.8

201849 2003 YF_{91} 1 17.7 2.°53 4.°4/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.81	+30 27.4	2.078	2.891	13.0	20.1
12 23	8 17.14	+31 34.3	2.002	2.891	10.0	19.9
1 2	8 9.95	+32 41.3	1.950	2.891	6.9	19.7
1 12	8 0.94	+33 41.8	1.926	2.891	4.6	19.5
1 22	7 51.12	+34 29.7	1.931	2.891	5.2	19.6
2 1	7 41.70	+35 1.1	1.964	2.892	8.0	19.7
2 11	7 33.87	+35 15.2	2.023	2.892	11.1	19.9
2 21	7 28.43	+35 13.7	2.105	2.893	13.9	20.1

181864 1999 AQ_{9} 1 17.7 41.°80 2.°4/18.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.07	+14 38.0	1.439	2.252	17.7	19.6
12 23	8 17.63	+14 31.7	1.379	2.267	13.7	19.4
1 2	8 10.31	+14 38.2	1.339	2.283	9.1	19.1
1 12	8 1.04	+14 55.6	1.324	2.299	4.2	18.9
1 22	7 51.10	+15 20.3	1.336	2.316	3.0	18.9
2 1	7 41.93	+15 48.3	1.375	2.333	7.3	19.2
2 11	7 34.78	+16 15.9	1.439	2.351	11.8	19.5
2 21	7 30.44	+16 40.5	1.526	2.369	15.6	19.7

362682 2011 UW_{90} 1 17.7 339.°24 12.°7/19.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.92	− 2 5.4	1.472	2.219	20.5	19.7
12 23	8 19.97	− 4 27.1	1.396	2.214	17.8	19.5
1 2	8 12.00	− 6 30.1	1.339	2.210	15.2	19.3
1 12	8 1.77	− 8 5.4	1.304	2.207	13.2	19.2
1 22	7 50.49	− 9 6.4	1.294	2.204	12.7	19.1
2 1	7 39.64	− 9 30.4	1.307	2.201	14.0	19.2
2 11	7 30.67	− 9 21.2	1.342	2.199	16.4	19.3
2 21	7 24.57	− 8 46.3	1.397	2.197	19.1	19.5

262704 2006 XG_{4} 1 17.7 65.°10 8.°1/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 30.25	+38 40.1	1.640	2.450	16.1	20.6
12 23	8 24.13	+40 2.8	1.596	2.473	12.9	20.4
1 2	8 14.54	+41 15.9	1.574	2.496	9.9	20.3
1 12	8 2.62	+42 9.0	1.578	2.520	8.2	20.3
1 22	7 49.98	+42 35.3	1.609	2.543	8.8	20.4
2 1	7 38.43	+42 32.9	1.665	2.566	11.1	20.5
2 11	7 29.48	+42 5.3	1.746	2.590	13.8	20.8
2 21	7 23.94	+41 19.1	1.846	2.613	16.4	21.0

218772 2005 WS_{120} 1 17.7 54.°74 0.°3/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.00	+19 34.5	1.712	2.525	15.4	20.5
12 23	8 17.30	+20 1.2	1.647	2.539	11.7	20.3
1 2	8 10.00	+20 35.8	1.604	2.552	7.4	20.1
1 12	8 0.93	+21 14.1	1.588	2.567	2.7	19.8
1 22	7 51.20	+21 51.4	1.600	2.581	2.1	19.8
2 1	7 42.10	+22 23.6	1.640	2.596	6.7	20.1
2 11	7 34.78	+22 48.2	1.707	2.610	10.8	20.4
2 21	7 29.98	+23 4.6	1.797	2.625	14.3	20.7

136524 2006 EY_{16} 1 17.7 146.°36 0.°1/17.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.49	+18 31.6	1.971	2.767	14.3	20.6
12 23	8 19.68	+18 55.8	1.895	2.777	10.9	20.4
1 2	8 11.42	+19 27.8	1.842	2.787	6.9	20.2
1 12	8 1.46	+20 3.9	1.818	2.796	2.6	19.9
1 22	7 50.82	+20 40.0	1.823	2.804	1.9	19.9
2 1	7 40.68	+21 12.4	1.858	2.812	6.2	20.2
2 11	7 32.15	+21 38.7	1.921	2.819	10.1	20.4
2 21	7 25.98	+21 58.0	2.009	2.825	13.5	20.6

339571 2005 LF_{13} 1 17.8 155.°57 3.°5/19.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.28	+ 7 49.8	2.656	3.416	11.9	21.5
12 23	8 13.63	+ 7 40.4	2.568	3.420	9.5	21.3
1 2	8 7.33	+ 7 42.0	2.505	3.423	6.9	21.2
1 12	7 59.89	+ 7 54.5	2.469	3.427	4.4	21.0
1 22	7 51.99	+ 8 16.7	2.463	3.430	3.6	21.0
2 1	7 44.36	+ 8 46.5	2.487	3.433	5.4	21.1
2 11	7 37.74	+ 9 21.2	2.540	3.435	8.0	21.3
2 21	7 32.66	+ 9 58.0	2.619	3.438	10.6	21.4

318114 2004 JE_{18} 1 17.8 271°.76 2°.9/16.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 24.09	+26 4.6	1.969	2.779	13.8	21.5
12 23	8 19.15	+26 49.6	1.867	2.757	10.6	21.2
1 2	8 11.45	+27 38.8	1.788	2.734	6.9	21.0
1 12	8 1.61	+28 26.4	1.737	2.711	3.5	20.7
1 22	7 50.64	+29 6.6	1.715	2.688	3.8	20.7
2 1	7 39.86	+29 34.7	1.721	2.664	7.6	20.9
2 11	7 30.60	+29 48.8	1.755	2.641	11.6	21.0
2 21	7 23.87	+29 49.7	1.812	2.616	15.2	21.2

32511 2001 NX_{17} 1 17.8 235°.54 0°.3/18.1 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.53	+18 13.1	5.951	6.728	5.5	21.3
12 23	8 7.80	+18 18.1	5.841	6.713	4.2	21.1
1 2	8 3.32	+18 25.4	5.758	6.698	2.7	21.0
1 12	7 58.35	+18 34.2	5.705	6.682	1.1	20.9
1 22	7 53.16	+18 43.6	5.685	6.666	0.7	20.8
2 1	7 48.06	+18 52.9	5.697	6.650	2.3	21.0
2 11	7 43.35	+19 1.4	5.740	6.633	3.9	21.1
2 21	7 39.30	+19 8.6	5.811	6.617	5.3	21.2

226918 2004 TP_{208} 1 17.8 114°.65 3°.3/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.86	+28 57.4	2.032	2.841	13.4	20.6
12 23	8 19.31	+29 26.9	1.957	2.845	10.3	20.4
1 2	8 11.24	+29 55.5	1.906	2.850	6.8	20.2
1 12	8 1.41	+30 18.2	1.883	2.854	3.8	20.0
1 22	7 50.91	+30 30.5	1.888	2.859	4.0	20.0
2 1	7 40.97	+30 30.0	1.923	2.863	7.2	20.2
2 11	7 32.74	+30 17.1	1.984	2.867	10.6	20.4
2 21	7 26.95	+29 53.8	2.069	2.871	13.6	20.7

11046 1990 OE_{4} 1 17.8 132°.71 2°.9/19.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.61	+ 9 43.6	2.638	3.398	12.0	19.2
12 23	8 16.05	+ 9 40.7	2.560	3.415	9.4	19.0
1 2	8 8.81	+ 9 47.9	2.508	3.431	6.6	18.9
1 12	8 0.43	+10 4.5	2.484	3.447	3.9	18.7
1 22	7 51.64	+10 28.8	2.490	3.461	3.1	18.7
2 1	7 43.22	+10 58.5	2.527	3.476	5.2	18.8
2 11	7 35.90	+11 31.0	2.594	3.489	7.9	19.0
2 21	7 30.23	+12 3.9	2.687	3.502	10.5	19.2

320272 2007 RO_{66} 1 17.8 64°.31 1°.8/18.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.72	+13 58.2	2.096	2.888	13.7	21.0
12 23	8 15.10	+14 8.7	2.025	2.902	10.5	20.8
1 2	8 8.41	+14 29.4	1.978	2.917	7.0	20.6
1 12	8 0.33	+14 58.4	1.957	2.931	3.3	20.4
1 22	7 51.74	+15 32.5	1.966	2.946	2.3	20.4
2 1	7 43.60	+16 8.6	2.005	2.960	5.6	20.6
2 11	7 36.83	+16 43.5	2.071	2.975	9.1	20.9
2 21	7 32.06	+17 15.2	2.162	2.990	12.2	21.1

124924 2001 TE_{70} 1 17.8 14°.65 3°.1/16.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.69	+24 42.1	1.077	1.926	19.9	19.4
12 23	8 18.57	+25 18.3	1.019	1.930	15.2	19.1
1 2	8 11.54	+26 0.5	0.980	1.935	9.8	18.8
1 12	8 1.69	+26 40.8	0.963	1.941	4.3	18.5
1 22	7 50.74	+27 11.1	0.970	1.948	4.5	18.6
2 1	7 40.77	+27 26.0	1.001	1.957	9.8	18.9
2 11	7 33.57	+27 24.6	1.055	1.967	15.0	19.2
2 21	7 30.15	+27 9.4	1.127	1.978	19.5	19.5

366224 2012 TF_{242} 1 17.8 136°.54 3°.5/19.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.99	+ 7 36.3	2.682	3.441	11.8	21.5
12 23	8 13.39	+ 7 30.6	2.597	3.448	9.5	21.4
1 2	8 7.18	+ 7 36.3	2.536	3.454	6.8	21.2
1 12	7 59.86	+ 7 53.0	2.503	3.460	4.4	21.1
1 22	7 52.08	+ 8 19.2	2.499	3.466	3.6	21.0
2 1	7 44.60	+ 8 52.9	2.525	3.471	5.3	21.2
2 11	7 38.11	+ 9 31.2	2.581	3.477	7.9	21.3
2 21	7 33.14	+10 11.1	2.662	3.482	10.4	21.5

349936 2010 AC_{12} 1 17.8 338°.23 0°.7/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 26.48	+22 37.4	1.331	2.156	18.2	20.6
12 23	8 21.64	+22 31.4	1.255	2.153	14.0	20.4
1 2	8 13.26	+22 29.8	1.200	2.151	9.0	20.1
1 12	8 2.31	+22 28.5	1.169	2.148	3.4	19.7
1 22	7 50.27	+22 23.4	1.165	2.146	2.7	19.7
2 1	7 38.97	+22 12.0	1.187	2.144	8.4	20.0
2 11	7 30.07	+21 54.0	1.234	2.143	13.6	20.3
2 21	7 24.58	+21 30.7	1.301	2.141	18.0	20.6

489093 2006 BP_{69} 1 17.8 277°.40 2°.6/16.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.77	+24 10.0	1.579	2.398	16.1	22.3
12 23	8 20.26	+24 53.2	1.484	2.379	12.4	22.0
1 2	8 12.46	+25 43.6	1.411	2.360	8.1	21.7
1 12	8 2.09	+26 34.7	1.363	2.340	3.6	21.4
1 22	7 50.35	+27 19.4	1.344	2.321	3.8	21.3
2 1	7 38.86	+27 51.7	1.351	2.301	8.6	21.6
2 11	7 29.29	+28 9.2	1.385	2.280	13.4	21.8
2 21	7 22.80	+28 12.5	1.439	2.260	17.6	22.0

60582 2000 EB_{130} 1 17.8 230°.75 2°.3/16.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 26.57	+24 10.4	1.688	2.500	15.6	20.1
12 23	8 21.28	+24 49.9	1.600	2.492	11.9	19.8
1 2	8 12.89	+25 34.9	1.535	2.483	7.7	19.6
1 12	8 2.18	+26 19.5	1.496	2.473	3.4	19.3
1 22	7 50.34	+26 57.2	1.486	2.463	3.5	19.3
2 1	7 38.90	+27 23.3	1.504	2.452	8.0	19.5
2 11	7 29.36	+27 36.0	1.549	2.441	12.4	19.7
2 21	7 22.74	+27 36.2	1.615	2.430	16.3	19.9

221081 2005 SU_{45} 1 17.8 220°.72 0°.1/17.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.76	+19 53.7	1.970	2.773	14.0	20.9
12 23	8 17.76	+20 7.2	1.884	2.770	10.7	20.7
1 2	8 10.31	+20 27.2	1.821	2.767	6.8	20.4
1 12	8 1.12	+20 50.3	1.786	2.764	2.5	20.1
1 22	7 51.17	+21 13.1	1.780	2.761	1.9	20.1
2 1	7 41.62	+21 32.4	1.803	2.758	6.3	20.4
2 11	7 33.59	+21 46.3	1.854	2.754	10.3	20.6
2 21	7 27.87	+21 54.2	1.928	2.750	13.7	20.8

362951 2013 AR_{56} 1 17.8 291°.69 1°.9/17.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.56	+23 32.1	1.461	2.285	17.0	21.4
12 23	8 20.24	+23 55.6	1.369	2.267	13.1	21.1
1 2	8 12.50	+24 25.2	1.300	2.250	8.5	20.8
1 12	8 2.12	+24 55.5	1.254	2.233	3.5	20.5
1 22	7 50.38	+25 20.3	1.236	2.215	3.4	20.4
2 1	7 39.01	+25 34.8	1.245	2.198	8.6	20.7
2 11	7 29.71	+25 37.2	1.278	2.181	13.7	20.9
2 21	7 23.66	+25 28.5	1.332	2.164	18.1	21.1

102738 1999 VM_{106} 1 17.8 145°.72 3°.2/18.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 27.37	+12 18.3	1.737	2.522	16.3	20.8
12 23	8 21.30	+12 5.0	1.662	2.532	12.8	20.6
1 2	8 12.56	+12 4.2	1.609	2.543	8.7	20.4
1 12	8 1.95	+12 14.7	1.582	2.552	4.6	20.1
1 22	7 50.61	+12 34.2	1.584	2.561	3.5	20.1
2 1	7 39.86	+12 59.5	1.616	2.569	7.0	20.3
2 11	7 30.90	+13 27.2	1.674	2.576	11.1	20.6
2 21	7 24.54	+13 54.6	1.757	2.582	14.7	20.8

80586 2000 AU_{129} 1 17.8 349°.12 3°.2/19.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.46	+ 8 51.5	1.465	2.268	18.0	18.7
12 23	8 15.20	+ 9 34.9	1.383	2.263	14.3	18.5
1 2	8 9.06	+10 42.2	1.322	2.259	9.9	18.2
1 12	8 0.77	+12 10.6	1.285	2.256	5.2	17.9
1 22	7 51.42	+13 54.0	1.275	2.254	3.5	17.8
2 1	7 42.43	+15 43.4	1.293	2.252	7.5	18.1
2 11	7 35.22	+17 29.7	1.336	2.251	12.3	18.3
2 21	7 30.75	+19 5.9	1.402	2.250	16.5	18.6

456523 2006 YX_{44} 1 17.8 21°.49 5°.8/13.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.72	+19 57.3	1.281	2.106	18.8	19.7
12 23	8 21.68	+23 48.6	1.215	2.115	14.2	19.5
1 2	8 13.79	+28 4.4	1.176	2.126	9.2	19.2
1 12	8 2.73	+32 23.5	1.167	2.137	5.8	19.0
1 22	7 49.89	+36 21.2	1.190	2.149	7.8	19.2
2 1	7 37.30	+39 38.0	1.243	2.163	12.3	19.5
2 11	7 27.06	+42 6.5	1.321	2.178	16.6	19.8
2 21	7 20.64	+43 49.8	1.420	2.193	20.1	20.1

276813 2004 PZ_{39} 1 17.8 155°.56 1°.7/17.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.13	+25 31.2	2.283	3.082	12.5	20.8
12 23	8 19.19	+25 45.8	2.203	3.088	9.5	20.6
1 2	8 11.03	+26 1.4	2.148	3.093	6.1	20.4
1 12	8 1.35	+26 14.2	2.121	3.098	2.6	20.2
1 22	7 51.09	+26 21.1	2.125	3.102	2.6	20.2
2 1	7 41.32	+26 20.1	2.159	3.106	6.0	20.4
2 11	7 33.02	+26 10.9	2.222	3.110	9.4	20.6
2 21	7 26.87	+25 54.7	2.309	3.113	12.3	20.8

372564 2009 UH_{36} 1 17.8 109°.11 1°.1/17.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.61	+22 1.6	2.043	2.849	13.5	21.2
12 23	8 17.50	+22 31.6	1.968	2.857	10.2	21.0
1 2	8 10.07	+23 6.6	1.918	2.865	6.5	20.8
1 12	8 1.02	+23 42.5	1.894	2.873	2.5	20.6
1 22	7 51.32	+24 15.0	1.901	2.880	2.3	20.6
2 1	7 42.11	+24 40.8	1.937	2.888	6.2	20.8
2 11	7 34.42	+24 58.2	2.000	2.895	9.9	21.1
2 21	7 28.97	+25 7.1	2.088	2.903	13.1	21.3

203095 2000 RO_{37} 1 17.8 91°.67 1°.7/17.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 29.71	+24 40.7	1.625	2.435	16.2	19.5
12 23	8 23.22	+24 48.5	1.564	2.454	12.3	19.3
1 2	8 13.77	+24 58.0	1.526	2.473	7.8	19.0
1 12	8 2.38	+25 4.6	1.515	2.493	3.1	18.8
1 22	7 50.41	+25 4.4	1.532	2.511	2.9	18.8
2 1	7 39.36	+24 55.4	1.578	2.530	7.3	19.1
2 11	7 30.51	+24 38.2	1.651	2.548	11.5	19.4
2 21	7 24.60	+24 14.5	1.747	2.565	15.1	19.7

291335 2006 BQ_{214} 1 17.8 4°.89 1°.9/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 27.44	+27 46.9	1.038	1.883	20.8	19.8
12 23	8 23.06	+26 59.2	0.974	1.882	16.0	19.5
1 2	8 14.41	+26 6.1	0.929	1.883	10.4	19.2
1 12	8 2.78	+25 3.7	0.906	1.885	4.2	18.8
1 22	7 50.14	+23 50.8	0.907	1.888	3.5	18.8
2 1	7 38.76	+22 30.3	0.934	1.893	9.6	19.2
2 11	7 30.52	+21 7.3	0.982	1.900	15.2	19.5
2 21	7 26.34	+19 47.0	1.051	1.908	20.0	19.8

373281 2012 HQ_{41} 1 17.8 142°.20 0°.9/17.3 18

12 13	8 21.88	+20 55.5	1.929	2.737	14.1	20.9
12 23	8 17.18	+21 30.8	1.848	2.738	10.7	20.7
1 2	8 10.00	+22 13.1	1.791	2.739	6.8	20.5
1 12	8 1.06	+22 58.0	1.761	2.739	2.6	20.2
1 22	7 51.34	+23 40.7	1.760	2.740	2.3	20.2
2 1	7 42.04	+24 16.9	1.788	2.741	6.5	20.4
2 11	7 34.28	+24 44.4	1.843	2.741	10.4	20.7
2 21	7 28.87	+25 2.4	1.922	2.742	13.8	20.9

456388 2006 UY_{138} 1 17.8 56°.25 1°.0/18.1 16

12 13	8 26.96	+17 58.9	1.472	2.283	17.5	21.5
12 23	8 21.09	+17 53.9	1.425	2.314	13.3	21.3
1 2	8 12.36	+17 57.7	1.399	2.345	8.5	21.1
1 12	8 1.84	+18 7.2	1.399	2.377	3.4	20.8
1 22	7 50.89	+18 18.9	1.427	2.408	2.3	20.8
2 1	7 40.95	+18 29.8	1.483	2.440	7.0	21.2
2 11	7 33.22	+18 38.0	1.564	2.471	11.3	21.5
2 21	7 28.35	+18 42.7	1.669	2.503	14.9	21.8

407334 2010 QF 1 17.8 82°.61 1°.9/17.1 18

12 13	8 28.06	+25 1.8	1.713	2.523	15.5	21.7
12 23	8 21.84	+25 17.4	1.654	2.544	11.7	21.5
1 2	8 12.86	+25 34.7	1.618	2.565	7.4	21.3
1 12	8 2.05	+25 48.9	1.609	2.586	3.1	21.1
1 22	7 50.70	+25 55.9	1.629	2.607	3.0	21.1
2 1	7 40.21	+25 53.4	1.677	2.627	7.1	21.4
2 11	7 31.78	+25 41.8	1.753	2.648	11.1	21.7
2 21	7 26.12	+25 22.8	1.851	2.668	14.4	22.0

90534 2004 FW_{39} 1 17.8 192°.91 1°.9/16.6 18

12 13	8 20.73	+26 10.0	2.778	3.576	10.5	20.9
12 23	8 15.63	+26 41.6	2.690	3.574	8.0	20.7
1 2	8 8.70	+27 14.5	2.629	3.573	5.1	20.5
1 12	8 0.51	+27 45.1	2.596	3.571	2.5	20.3
1 22	7 51.77	+28 10.2	2.594	3.568	2.6	20.3
2 1	7 43.32	+28 27.4	2.623	3.566	5.4	20.5
2 11	7 35.97	+28 36.0	2.681	3.563	8.2	20.7
2 21	7 30.33	+28 36.2	2.764	3.560	10.7	20.8

323544 2004 RZ_{307} 1 17.8 134°.20 8°.1/23.0 18

12 13	8 20.10	− 7 9.9	2.534	3.215	14.3	21.3
12 23	8 15.06	− 7 46.2	2.457	3.228	12.4	21.1
1 2	8 8.29	− 8 3.1	2.400	3.241	10.5	21.0
1 12	8 0.33	− 7 58.2	2.368	3.253	8.9	20.9
1 22	7 51.91	− 7 31.2	2.362	3.264	8.1	20.9
2 1	7 43.81	− 6 44.2	2.384	3.275	8.6	21.0
2 11	7 36.81	− 5 41.2	2.432	3.286	10.1	21.1
2 21	7 31.45	− 4 27.7	2.506	3.296	11.9	21.2

422381 2014 SO_{263} 1 17.8 110°.57 7°.5/13.9 18

12 13	8 29.44	+38 44.2	1.941	2.742	14.3	20.5
12 23	8 23.32	+40 11.7	1.884	2.755	11.5	20.4
1 2	8 14.08	+41 31.9	1.850	2.768	9.0	20.3
1 12	8 2.60	+42 35.2	1.843	2.780	7.6	20.2
1 22	7 50.25	+43 14.8	1.864	2.793	8.2	20.3
2 1	7 38.62	+43 27.7	1.912	2.805	10.3	20.4
2 11	7 29.15	+43 16.0	1.984	2.816	12.9	20.6
2 21	7 22.74	+42 44.7	2.078	2.828	15.3	20.8

432580 2010 OF_{84} 1 17.8 191°.53 7°.2/23.7 17

12 13	8 16.62	−11 3.4	3.454	4.094	11.4	22.8
12 23	8 12.11	−11 32.5	3.359	4.092	10.2	22.6
1 2	8 6.29	−11 45.5	3.286	4.089	8.9	22.5
1 12	7 59.58	−11 40.7	3.236	4.087	7.8	22.5
1 22	7 52.46	−11 17.4	3.212	4.083	7.3	22.4
2 1	7 45.52	−10 36.7	3.216	4.079	7.5	22.4
2 11	7 39.30	− 9 41.4	3.248	4.075	8.5	22.5
2 21	7 34.26	− 8 35.1	3.304	4.070	9.8	22.6

133031 2002 XM_{69} 1 17.8 164°.39 2°.8/19.1 18

12 13	8 19.74	+11 46.2	2.459	3.235	12.3	20.4
12 23	8 14.91	+11 31.2	2.371	3.236	9.7	20.3
1 2	8 8.25	+11 25.3	2.308	3.238	6.7	20.1
1 12	8 0.34	+11 27.9	2.272	3.239	3.8	19.9
1 22	7 51.91	+11 37.8	2.266	3.240	3.0	19.8
2 1	7 43.79	+11 53.2	2.290	3.241	5.4	20.0
2 11	7 36.79	+12 12.0	2.343	3.242	8.5	20.2
2 21	7 31.51	+12 31.9	2.421	3.242	11.3	20.4

408913 2001 WL_{55} 1 17.8 100°.43 2°.1/16.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 25.86	+25 0.6	2.027	2.830	13.6	21.5
12 23	8 19.90	+25 38.2	1.964	2.851	10.3	21.3
1 2	8 11.53	+26 18.1	1.927	2.872	6.6	21.1
1 12	8 1.56	+26 55.1	1.917	2.893	3.0	20.9
1 22	7 51.06	+27 24.7	1.937	2.912	3.1	21.0
2 1	7 41.19	+27 44.1	1.986	2.932	6.6	21.2
2 11	7 33.01	+27 52.5	2.064	2.951	10.0	21.5
2 21	7 27.21	+27 51.0	2.165	2.969	13.0	21.7

376632 2013 PJ_{68} 1 17.8 100°.51 1°.9/18.6 18

12 13	8 21.54	+14 32.7	2.056	2.847	13.9	21.8
12 23	8 16.58	+14 33.4	1.979	2.856	10.8	21.6
1 2	8 9.44	+14 43.6	1.926	2.865	7.1	21.4
1 12	8 0.81	+15 1.7	1.900	2.873	3.4	21.2
1 22	7 51.59	+15 25.0	1.902	2.882	2.3	21.2
2 1	7 42.83	+15 50.6	1.935	2.890	5.8	21.4
2 11	7 35.48	+16 16.0	1.995	2.899	9.5	21.6
2 21	7 30.22	+16 39.1	2.080	2.907	12.7	21.9

412559 2014 NQ_{51} 1 17.8 228°.69 0°.2/17.9 18

12 13	8 26.08	+20 1.8	1.738	2.543	15.5	21.5
12 23	8 20.63	+19 58.1	1.650	2.538	11.9	21.2
1 2	8 12.34	+20 0.2	1.586	2.532	7.7	21.0
1 12	8 1.98	+20 5.3	1.547	2.525	2.9	20.7
1 22	7 50.71	+20 10.1	1.537	2.519	2.1	20.6
2 1	7 39.90	+20 12.1	1.556	2.512	7.0	20.9
2 11	7 30.89	+20 10.0	1.602	2.505	11.4	21.1
2 21	7 24.56	+20 3.8	1.672	2.498	15.3	21.3

255869 2006 SS_{196} 1 17.8 23°.47 8°.5/15.4 18

12 13	8 28.83	+38 41.0	1.390	2.213	17.7	20.0
12 23	8 23.69	+39 33.6	1.334	2.220	14.3	19.8
1 2	8 14.62	+40 15.5	1.298	2.227	10.9	19.6
1 12	8 2.84	+40 36.5	1.286	2.236	8.7	19.5
1 22	7 50.17	+40 29.2	1.299	2.245	9.1	19.5
2 1	7 38.69	+39 52.6	1.337	2.255	11.8	19.7
2 11	7 30.12	+38 51.5	1.397	2.266	15.1	19.9
2 21	7 25.34	+37 33.7	1.478	2.277	18.3	20.2

222291 2000 SY_{152} 1 17.8 153°.46 4°.7/20.4 18

12 13	8 21.04	+ 4 36.3	2.511	3.255	12.9	21.2
12 23	8 15.80	+ 4 19.0	2.427	3.263	10.6	21.1
1 2	8 8.78	+ 4 15.1	2.366	3.271	7.9	20.9
1 12	8 0.54	+ 4 25.1	2.333	3.279	5.6	20.8
1 22	7 51.80	+ 4 47.9	2.328	3.285	4.7	20.7
2 1	7 43.38	+ 5 21.4	2.354	3.292	6.2	20.8
2 11	7 36.06	+ 6 2.4	2.408	3.297	8.7	21.0
2 21	7 30.43	+ 6 47.4	2.489	3.302	11.2	21.2

238148 2003 SQ_{39} 1 17.8 151°.04 3°.1/19.2 18

12 13	8 24.65	+10 50.1	2.169	2.939	13.9	21.5
12 23	8 18.79	+10 44.1	2.089	2.950	11.0	21.3
1 2	8 10.79	+10 49.5	2.032	2.960	7.6	21.1
1 12	8 1.31	+11 5.4	2.003	2.969	4.3	21.0
1 22	7 51.25	+11 29.8	2.004	2.978	3.3	20.9
2 1	7 41.61	+11 59.9	2.035	2.986	6.0	21.1
2 11	7 33.36	+12 32.6	2.095	2.992	9.4	21.3
2 21	7 27.16	+13 5.3	2.180	2.998	12.5	21.5

401386 2013 CM_{32} 1 17.8 244°.17 1°.1/17.3 18

12 13	8 24.67	+21 25.0	1.821	2.629	14.8	21.9
12 23	8 19.64	+21 59.4	1.727	2.616	11.4	21.7
1 2	8 11.80	+22 41.4	1.656	2.604	7.3	21.4
1 12	8 1.84	+23 26.2	1.612	2.591	2.8	21.1
1 22	7 50.82	+24 8.5	1.597	2.577	2.6	21.1
2 1	7 40.08	+24 43.5	1.611	2.563	7.2	21.3
2 11	7 30.98	+25 8.5	1.652	2.549	11.5	21.5
2 21	7 24.49	+25 23.2	1.716	2.534	15.3	21.7

65516 4726 $P–L$ 1 17.8 115°.33 0°.8/18.1 18

12 13	8 26.83	+17 0.9	1.822	2.616	15.3	20.4
12 23	8 20.77	+17 15.3	1.755	2.635	11.7	20.2
1 2	8 12.16	+17 38.7	1.711	2.654	7.5	20.0
1 12	8 1.84	+18 7.7	1.695	2.672	3.0	19.8
1 22	7 50.92	+18 38.5	1.709	2.690	2.0	19.7
2 1	7 40.65	+19 7.5	1.752	2.707	6.4	20.1
2 11	7 32.16	+19 32.2	1.822	2.723	10.4	20.3
2 21	7 26.17	+19 51.3	1.917	2.738	13.8	20.6

123218 2000 UN_{40} 1 17.8 18°.46 5°.5/15.3 18

12 13	8 22.17	+30 32.6	1.536	2.365	16.0	18.8
12 23	8 18.19	+31 47.9	1.473	2.370	12.4	18.6
1 2	8 11.02	+33 3.5	1.432	2.376	8.6	18.3
1 12	8 1.53	+34 10.1	1.417	2.382	5.8	18.2
1 22	7 51.10	+34 59.7	1.428	2.390	6.5	18.3
2 1	7 41.35	+35 27.4	1.465	2.397	9.8	18.5
2 11	7 33.76	+35 33.0	1.527	2.406	13.4	18.7
2 21	7 29.25	+35 19.9	1.609	2.415	16.7	18.9

424334 2007 UU_{99} 1 17.8 120°.14 3°.8/15.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 21.93	+30 54.1	2.450	3.254	11.5	20.9
12 23	8 16.86	+31 47.7	2.375	3.259	8.9	20.7
1 2	8 9.64	+32 40.1	2.325	3.264	6.1	20.6
1 12	8 0.92	+33 26.3	2.304	3.268	4.0	20.4
1 22	7 51.57	+34 1.5	2.312	3.272	4.4	20.5
2 1	7 42.60	+34 23.1	2.349	3.277	6.9	20.6
2 11	7 34.99	+34 30.4	2.414	3.281	9.6	20.8
2 21	7 29.43	+34 25.1	2.503	3.285	12.1	21.0

5776 1989 UT_{2} 1 17.8 202°.33 5°.7/20.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.94	+ 3 47.9	2.250	2.996	14.2	17.9
12 23	8 16.79	+ 3 14.9	2.157	2.992	11.7	17.8
1 2	8 9.59	+ 2 56.3	2.086	2.988	9.0	17.6
1 12	8 0.91	+ 2 53.6	2.041	2.983	6.6	17.4
1 22	7 51.56	+ 3 6.8	2.025	2.978	5.7	17.4
2 1	7 42.48	+ 3 34.0	2.038	2.972	7.3	17.4
2 11	7 34.59	+ 4 11.9	2.078	2.965	10.0	17.6
2 21	7 28.60	+ 4 56.5	2.144	2.958	12.8	17.8

13764 Mcalanis 1 17.8 107°.04 2°.0/17.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.33	+22 28.5	1.443	2.265	17.2	18.5
12 23	8 20.62	+23 11.8	1.370	2.267	13.2	18.2
1 2	8 12.60	+24 3.2	1.318	2.268	8.4	18.0
1 12	8 2.16	+24 56.0	1.292	2.270	3.4	17.7
1 22	7 50.66	+25 43.0	1.293	2.272	3.4	17.7
2 1	7 39.77	+26 18.7	1.321	2.273	8.3	18.0
2 11	7 31.07	+26 40.4	1.374	2.275	13.1	18.2
2 21	7 25.55	+26 49.1	1.449	2.276	17.1	18.5

345650 2006 TZ_{14} 1 17.8 177°.44 4°.6/14.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.05	+37 9.4	3.024	3.812	10.0	21.7
12 23	8 18.16	+37 54.1	2.946	3.813	7.9	21.5
1 2	8 10.33	+38 33.7	2.893	3.814	5.9	21.4
1 12	8 1.15	+39 3.7	2.870	3.815	4.7	21.3
1 22	7 51.43	+39 20.6	2.876	3.816	5.1	21.3
2 1	7 42.08	+39 22.7	2.912	3.816	6.8	21.4
2 11	7 33.96	+39 10.4	2.976	3.815	8.8	21.6
2 21	7 27.69	+38 45.9	3.064	3.814	10.8	21.7

238378 2004 CN_{98} 1 17.8 315°.23 0°.7/18.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.97	+17 30.9	2.046	2.850	13.5	20.4
12 23	8 14.90	+17 41.2	1.951	2.837	10.4	20.2
1 2	8 8.57	+17 59.7	1.879	2.824	6.8	19.9
1 12	8 0.58	+18 24.1	1.835	2.812	2.7	19.7
1 22	7 51.81	+18 51.4	1.819	2.800	1.8	19.6
2 1	7 43.31	+19 18.2	1.832	2.788	6.0	19.8
2 11	7 36.13	+19 42.1	1.872	2.777	9.9	20.0
2 21	7 31.06	+20 1.4	1.936	2.766	13.4	20.2

370587 2003 WN_{18} 1 17.8 77°.01 1°.5/18.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.30	+16 43.2	2.121	2.910	13.6	21.0
12 23	8 18.42	+16 24.5	2.057	2.933	10.4	20.9
1 2	8 10.46	+16 12.4	2.017	2.957	6.8	20.7
1 12	8 1.17	+16 5.4	2.005	2.980	3.0	20.5
1 22	7 51.48	+16 2.0	2.022	3.002	2.1	20.5
2 1	7 42.40	+16 0.5	2.071	3.025	5.6	20.7
2 11	7 34.83	+15 59.7	2.147	3.047	9.1	21.0
2 21	7 29.36	+15 58.6	2.248	3.069	12.0	21.2

281057 2006 KO_{4} 1 17.8 19°.09 4°.4/19.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.59	+ 8 37.7	2.008	2.786	14.7	20.8
12 23	8 15.19	+ 8 10.5	1.926	2.787	11.8	20.6
1 2	8 8.63	+ 7 56.2	1.866	2.789	8.5	20.4
1 12	8 0.56	+ 7 55.3	1.832	2.792	5.5	20.2
1 22	7 51.87	+ 8 7.0	1.826	2.794	4.5	20.1
2 1	7 43.56	+ 8 29.1	1.849	2.797	6.8	20.3
2 11	7 36.59	+ 8 58.3	1.898	2.800	10.0	20.5
2 21	7 31.68	+ 9 31.0	1.972	2.803	13.1	20.7

337877 2001 WV_{60} 1 17.8 32°.30 6°.9/20.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.96	+ 1 38.5	2.150	2.895	14.8	20.3
12 23	8 14.52	+ 0 41.8	2.073	2.902	12.4	20.1
1 2	8 8.11	+ 0 0.8	2.017	2.909	9.8	20.0
1 12	8 0.35	− 0 22.2	1.987	2.916	7.7	19.9
1 22	7 52.04	− 0 26.4	1.983	2.923	6.9	19.8
2 1	7 44.11	− 0 13.0	2.007	2.931	8.1	19.9
2 11	7 37.43	+ 0 14.6	2.058	2.939	10.4	20.1
2 21	7 32.62	+ 0 52.1	2.132	2.948	12.8	20.2

444140 2004 VR_{21} 1 17.8 35°.15 3°.0/16.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.51	+23 52.1	1.111	1.954	19.8	20.4
12 23	8 19.68	+24 44.3	1.064	1.972	15.0	20.1
1 2	8 12.10	+25 43.2	1.036	1.990	9.5	19.9
1 12	8 1.94	+26 39.9	1.032	2.010	4.2	19.7
1 22	7 50.95	+27 25.8	1.053	2.030	4.4	19.7
2 1	7 41.07	+27 55.3	1.098	2.052	9.5	20.1
2 11	7 33.95	+28 7.2	1.166	2.074	14.3	20.4
2 21	7 30.43	+28 3.9	1.254	2.096	18.4	20.7

234047 1999 CY_{49} 1 17.8 352°.56 5°.1/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 18.60	+30 15.6	1.436	2.275	16.4	19.2
12 23	8 15.74	+31 2.3	1.362	2.265	12.7	18.9
1 2	8 9.61	+31 49.0	1.309	2.257	8.7	18.6
1 12	8 1.08	+32 27.7	1.280	2.250	5.5	18.4
1 22	7 51.49	+32 51.4	1.277	2.245	6.0	18.5
2 1	7 42.50	+32 55.9	1.299	2.241	9.7	18.7
2 11	7 35.67	+32 41.0	1.344	2.238	13.8	18.9
2 21	7 31.99	+32 9.9	1.410	2.238	17.5	19.1

434039 2001 SO_{284} 1 17.8 124°.92 4°.7/15.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.51	+35 47.7	2.551	3.346	11.4	21.9
12 23	8 19.46	+36 24.8	2.481	3.355	9.0	21.7
1 2	8 11.22	+36 56.6	2.436	3.363	6.5	21.6
1 12	8 1.50	+37 17.9	2.418	3.372	4.9	21.5
1 22	7 51.25	+37 25.2	2.431	3.380	5.2	21.5
2 1	7 41.53	+37 16.8	2.472	3.387	7.2	21.6
2 11	7 33.32	+36 53.8	2.541	3.395	9.7	21.8
2 21	7 27.27	+36 19.0	2.634	3.402	11.9	22.0

148733 2001 TD_{94} 1 17.8 35°.54 0°.7/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.16	+21 26.3	1.683	2.498	15.5	20.2
12 23	8 18.41	+21 39.3	1.609	2.502	11.8	19.9
1 2	8 10.90	+21 58.1	1.557	2.506	7.5	19.7
1 12	8 1.46	+22 18.8	1.532	2.510	2.8	19.4
1 22	7 51.25	+22 37.1	1.534	2.515	2.3	19.4
2 1	7 41.63	+22 50.0	1.565	2.520	7.0	19.7
2 11	7 33.84	+22 55.8	1.622	2.525	11.2	20.0
2 21	7 28.70	+22 54.6	1.702	2.531	14.9	20.2

430218 2013 VV_{3} 1 17.8 32°.16 3°.2/19.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.92	+ 9 40.7	1.751	2.545	15.9	20.1
12 23	8 14.12	+10 1.1	1.687	2.561	12.4	19.9
1 2	8 8.02	+10 38.2	1.644	2.578	8.6	19.7
1 12	8 0.34	+11 29.7	1.627	2.595	4.7	19.5
1 22	7 52.08	+12 31.6	1.637	2.614	3.4	19.5
2 1	7 44.35	+13 38.4	1.676	2.633	6.4	19.7
2 11	7 38.16	+14 44.8	1.742	2.652	10.2	20.0
2 21	7 34.19	+15 46.5	1.831	2.672	13.5	20.2

27047 Boisvert 1 17.8 210°.49 3°.2/16.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 27.40	+25 47.0	1.682	2.495	15.6	19.1
12 23	8 21.98	+26 39.5	1.599	2.491	12.0	18.8
1 2	8 13.42	+27 36.6	1.539	2.486	7.8	18.6
1 12	8 2.49	+28 31.4	1.506	2.480	3.9	18.3
1 22	7 50.46	+29 16.5	1.501	2.474	4.2	18.3
2 1	7 38.88	+29 46.8	1.524	2.468	8.4	18.6
2 11	7 29.26	+30 0.9	1.573	2.461	12.6	18.8
2 21	7 22.63	+30 0.4	1.645	2.453	16.3	19.0

492766 2014 QZ_{177} 1 17.8 219°.35 1°.3/18.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.94	+15 31.7	1.935	2.728	14.6	22.7
12 23	8 18.78	+15 45.8	1.842	2.720	11.3	22.5
1 2	8 11.11	+16 10.4	1.772	2.713	7.5	22.2
1 12	8 1.57	+16 43.1	1.728	2.704	3.2	22.0
1 22	7 51.14	+17 20.3	1.715	2.695	2.1	21.9
2 1	7 41.02	+17 58.3	1.730	2.686	6.4	22.1
2 11	7 32.37	+18 33.5	1.774	2.676	10.5	22.4
2 21	7 26.05	+19 4.0	1.842	2.665	14.2	22.6

169636 2002 JT_{15} 1 17.8 275°.89 7°.3/20.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 21.64	+ 3 9.5	1.749	2.511	17.1	20.6
12 23	8 17.36	+ 2 28.4	1.646	2.490	14.3	20.4
1 2	8 10.41	+ 2 5.3	1.563	2.469	11.2	20.1
1 12	8 1.39	+ 2 3.4	1.504	2.447	8.3	19.9
1 22	7 51.25	+ 2 23.6	1.471	2.425	7.3	19.8
2 1	7 41.22	+ 3 4.2	1.465	2.403	9.2	19.8
2 11	7 32.62	+ 4 0.4	1.485	2.380	12.7	20.0
2 21	7 26.42	+ 5 6.1	1.528	2.358	16.3	20.2

117857 2005 KQ_{6} 1 17.8 228°.28 3°.9/20.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.80	+ 5 33.8	2.461	3.218	12.9	20.4
12 23	8 13.54	+ 5 46.7	2.367	3.215	10.4	20.2
1 2	8 7.48	+ 6 14.5	2.297	3.211	7.6	20.0
1 12	8 0.14	+ 6 56.7	2.253	3.208	5.0	19.8
1 22	7 52.22	+ 7 51.2	2.239	3.205	4.0	19.7
2 1	7 44.53	+ 8 54.6	2.254	3.201	5.8	19.9
2 11	7 37.86	+10 2.7	2.299	3.198	8.6	20.0
2 21	7 32.84	+11 11.2	2.369	3.194	11.4	20.2

298738 2004 GD_{36} 1 17.8 258°.54 2°.1/18.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.33	+13 27.4	2.651	3.429	11.5	21.1
12 23	8 14.63	+13 18.1	2.547	3.415	9.0	20.9
1 2	8 8.15	+13 16.3	2.467	3.401	6.1	20.7
1 12	8 0.39	+13 21.4	2.416	3.386	3.2	20.5
1 22	7 52.04	+13 32.0	2.394	3.371	2.4	20.4
2 1	7 43.88	+13 46.5	2.403	3.356	5.1	20.6
2 11	7 36.70	+14 2.8	2.442	3.341	8.2	20.7
2 21	7 31.13	+14 19.4	2.506	3.325	11.0	20.9

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
367358 2008 FV_{24}			1 17.8 226°83		2°5/16.5 18	
	h m	° ′			°	m
12 13	8 24.17	+25 37.1	2.145	2.949	13.0	21.7
12 23	8 18.89	+26 21.3	2.054	2.941	9.9	21.4
1 2	8 11.15	+27 8.7	1.986	2.932	6.4	21.2
1 12	8 1.59	+27 54.4	1.947	2.922	3.1	21.0
1 22	7 51.16	+28 33.2	1.938	2.912	3.4	21.0
2 1	7 41.03	+29 1.3	1.959	2.902	6.8	21.2
2 11	7 32.35	+29 17.0	2.007	2.891	10.4	21.4
2 21	7 25.95	+29 21.1	2.079	2.880	13.6	21.6
119334 2001 SD_{143}			1 17.8 246°83		2°8/18.8 18	
12 13	8 25.14	+13 21.5	1.719	2.511	16.2	20.3
12 23	8 20.06	+13 11.0	1.621	2.497	12.8	20.1
1 2	8 12.14	+13 12.4	1.544	2.482	8.7	19.8
1 12	8 2.03	+13 24.9	1.494	2.466	4.5	19.5
1 22	7 50.81	+13 46.0	1.471	2.449	3.3	19.4
2 1	7 39.84	+14 12.8	1.478	2.433	7.3	19.6
2 11	7 30.49	+14 41.6	1.511	2.415	11.8	19.8
2 21	7 23.78	+15 9.5	1.567	2.397	15.9	20.0
209478 2004 HP_{17}			1 17.8 292°27		3°2/16.3 18	
12 13	8 22.34	+29 32.4	2.296	3.103	12.1	20.5
12 23	8 17.35	+30 0.2	2.205	3.092	9.4	20.3
1 2	8 10.07	+30 27.3	2.139	3.082	6.3	20.1
1 12	8 1.15	+30 48.9	2.101	3.071	3.6	19.9
1 22	7 51.50	+31 1.1	2.092	3.061	3.9	19.9
2 1	7 42.21	+31 1.5	2.112	3.050	6.8	20.1
2 11	7 34.32	+30 49.9	2.160	3.040	10.0	20.2
2 21	7 28.59	+30 27.9	2.231	3.030	12.9	20.4
124136 2001 LT_{2}			1 17.8 155°17		1°6/17.1 18	
12 13	8 28.42	+22 40.6	1.994	2.791	14.1	21.0
12 23	8 22.04	+23 24.2	1.918	2.802	10.7	20.8
1 2	8 13.07	+24 12.9	1.866	2.811	6.8	20.6
1 12	8 2.27	+25 1.4	1.843	2.820	2.8	20.4
1 22	7 50.71	+25 44.3	1.850	2.828	2.7	20.4
2 1	7 39.67	+26 17.7	1.887	2.835	6.7	20.6
2 11	7 30.32	+26 39.9	1.953	2.841	10.5	20.9
2 21	7 23.47	+26 51.4	2.043	2.846	13.7	21.1
226369 2003 JJ_{5}			1 17.8 151°15		5°7/14.5 18	
12 13	8 26.06	+35 5.8	2.225	3.027	12.7	20.3
12 23	8 20.39	+36 21.1	2.155	3.032	10.0	20.1
1 2	8 12.10	+37 32.9	2.109	3.037	7.4	20.0
1 12	8 1.93	+38 33.7	2.092	3.042	5.8	19.9
1 22	7 50.96	+39 17.6	2.103	3.046	6.3	19.9
2 1	7 40.44	+39 41.2	2.143	3.050	8.6	20.1
2 11	7 31.58	+39 44.7	2.209	3.054	11.2	20.2
2 21	7 25.22	+39 31.3	2.297	3.058	13.7	20.4
163244 Matthewhill			1 17.8 152°45		0°3/17.9 18	
12 13	8 25.69	+18 18.8	1.966	2.761	14.3	21.5
12 23	8 19.93	+18 38.8	1.888	2.770	11.0	21.3
1 2	8 11.70	+19 6.5	1.834	2.777	7.0	21.1
1 12	8 1.76	+19 38.7	1.807	2.785	2.7	20.8
1 22	7 51.12	+20 11.3	1.810	2.791	1.8	20.7
2 1	7 40.96	+20 40.8	1.843	2.797	6.2	21.0
2 11	7 32.39	+21 4.9	1.904	2.802	10.1	21.3
2 21	7 26.19	+21 22.7	1.989	2.807	13.5	21.5
493881 2015 XK_{113}			1 17.8 224°96		3°9/19.5 18	
12 13	8 22.97	+ 9 36.1	1.692	2.478	16.6	21.9
12 23	8 18.31	+ 9 34.3	1.604	2.473	13.3	21.7
1 2	8 10.94	+ 9 48.9	1.537	2.467	9.3	21.4
1 12	8 1.56	+10 19.5	1.495	2.462	5.4	21.2
1 22	7 51.22	+11 3.3	1.481	2.455	4.1	21.1
2 1	7 41.22	+11 56.0	1.495	2.449	7.4	21.3
2 11	7 32.84	+12 52.4	1.536	2.442	11.6	21.5
2 21	7 27.00	+13 47.8	1.600	2.435	15.4	21.7
56164 1999 DW_{7}			1 17.8 229°60		7°0/14.9 18	
12 13	8 29.88	+38 51.6	1.988	2.786	14.1	18.9
12 23	8 23.69	+39 43.4	1.911	2.782	11.4	18.7
1 2	8 14.38	+40 27.5	1.857	2.777	8.7	18.6
1 12	8 2.83	+40 55.8	1.829	2.772	7.1	18.4
1 22	7 50.36	+41 2.3	1.829	2.767	7.6	18.5
2 1	7 38.56	+40 44.6	1.856	2.762	9.8	18.6
2 11	7 28.85	+40 5.1	1.909	2.756	12.7	18.8
2 21	7 22.14	+39 8.9	1.984	2.751	15.4	18.9
437123 2012 US_{139}			1 17.8 173°05		2°6/16.6 18	
12 13	8 22.97	+28 51.6	2.538	3.338	11.3	21.3
12 23	8 17.49	+29 8.3	2.455	3.339	8.6	21.2
1 2	8 9.97	+29 23.7	2.397	3.339	5.7	21.0
1 12	8 1.08	+29 34.2	2.368	3.340	3.0	20.8
1 22	7 51.65	+29 36.9	2.368	3.340	3.2	20.8
2 1	7 42.63	+29 30.0	2.400	3.340	5.9	21.0
2 11	7 34.93	+29 13.7	2.459	3.340	8.9	21.2
2 21	7 29.18	+28 49.5	2.543	3.340	11.5	21.4

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
341285 2007 RY_{292}			1 17.8 62°58		0°5/18.1 18	
	h m	° ′			°	m
12 13	8 19.93	+17 45.6	2.202	3.000	12.9	21.2
12 23	8 15.32	+17 59.9	2.124	3.007	9.8	21.0
1 2	8 8.67	+18 21.3	2.070	3.014	6.3	20.8
1 12	8 0.61	+18 47.3	2.044	3.022	2.5	20.5
1 22	7 51.99	+19 15.0	2.047	3.029	1.7	20.5
2 1	7 43.78	+19 41.4	2.081	3.036	5.5	20.7
2 11	7 36.87	+20 4.3	2.142	3.044	9.0	21.0
2 21	7 31.92	+20 22.4	2.228	3.051	12.0	21.2
377107 2002 WK_{28}			1 17.8 38°69		0°4/17.6 18	
12 13	8 20.06	+19 29.8	1.822	2.634	14.6	20.4
12 23	8 15.77	+20 2.7	1.758	2.650	11.0	20.2
1 2	8 9.08	+20 43.3	1.718	2.667	7.0	20.0
1 12	8 0.78	+21 27.5	1.705	2.684	2.6	19.8
1 22	7 51.89	+22 10.5	1.720	2.701	2.0	19.8
2 1	7 43.57	+22 48.2	1.764	2.719	6.3	20.1
2 11	7 36.86	+23 18.2	1.834	2.737	10.2	20.4
2 21	7 32.48	+23 39.5	1.928	2.756	13.5	20.6
273214 2006 JP_{31}			1 17.8 104°74		4°7/20.3 18	
12 13	8 18.99	+ 5 31.0	2.256	3.015	13.8	20.6
12 23	8 14.52	+ 5 17.5	2.173	3.020	11.2	20.4
1 2	8 8.13	+ 5 18.4	2.112	3.025	8.3	20.2
1 12	8 0.41	+ 5 34.2	2.078	3.030	5.7	20.1
1 22	7 52.14	+ 6 3.5	2.073	3.035	4.7	20.0
2 1	7 44.19	+ 6 43.7	2.096	3.039	6.5	20.1
2 11	7 37.43	+ 7 31.0	2.147	3.044	9.2	20.3
2 21	7 32.47	+ 8 21.5	2.223	3.049	12.0	20.5
330882 2009 RJ_{34}			1 17.8 139°13		3°0/16.4 18	
12 13	8 24.55	+27 46.0	2.078	2.885	13.2	21.3
12 23	8 19.12	+28 23.0	2.002	2.890	10.1	21.1
1 2	8 11.22	+29 0.7	1.950	2.895	6.6	20.9
1 12	8 1.60	+29 33.7	1.926	2.899	3.5	20.7
1 22	7 51.28	+29 57.4	1.931	2.903	3.8	20.7
2 1	7 41.47	+30 9.0	1.966	2.907	7.0	20.9
2 11	7 33.26	+30 8.0	2.028	2.911	10.4	21.1
2 21	7 27.43	+29 56.0	2.113	2.914	13.4	21.3
55027 2001 QL_{42}			1 17.8 22°13		0°7/17.5 18	
12 13	8 20.03	+21 15.7	1.819	2.634	14.5	18.2
12 23	8 15.84	+21 36.6	1.747	2.641	11.0	18.0
1 2	8 9.19	+22 3.3	1.699	2.648	7.0	17.8
1 12	8 0.85	+22 32.1	1.677	2.655	2.6	17.5
1 22	7 51.83	+22 58.9	1.683	2.664	2.2	17.5
2 1	7 43.35	+23 20.2	1.717	2.672	6.5	17.8
2 11	7 36.49	+23 34.3	1.778	2.682	10.4	18.1
2 21	7 31.99	+23 40.6	1.863	2.691	13.8	18.3
118895 2000 UO_{53}			1 17.8 341°44		7°5/13.9 18	
12 13	8 20.04	+33 0.0	1.439	2.276	16.5	18.0
12 23	8 17.19	+34 41.1	1.364	2.263	13.1	17.7
1 2	8 10.82	+36 23.5	1.310	2.250	9.6	17.5
1 12	8 1.68	+37 55.8	1.281	2.239	7.6	17.3
1 22	7 51.14	+39 7.0	1.278	2.229	8.6	17.4
2 1	7 41.02	+39 49.6	1.299	2.220	11.9	17.5
2 11	7 33.17	+40 2.7	1.343	2.212	15.6	17.7
2 21	7 28.77	+39 50.3	1.406	2.205	19.0	17.9
361601 2007 RY_{323}			1 17.8 24°74		1°5/17.3 18	
12 13	8 22.43	+22 3.2	1.252	2.088	18.5	20.6
12 23	8 18.64	+22 30.6	1.192	2.095	14.1	20.4
1 2	8 11.42	+23 6.0	1.151	2.104	9.0	20.1
1 12	8 1.77	+23 43.2	1.134	2.113	3.5	19.8
1 22	7 51.20	+24 15.8	1.143	2.123	3.1	19.8
2 1	7 41.47	+24 38.8	1.177	2.134	8.5	20.2
2 11	7 34.14	+24 50.2	1.236	2.146	13.4	20.5
2 21	7 30.11	+24 50.5	1.314	2.159	17.6	20.8
202153 2004 TT_{343}			1 17.8 13°11		2°9/16.8 18	
12 13	8 21.56	+23 49.4	1.170	2.014	19.0	19.6
12 23	8 18.34	+24 35.4	1.108	2.016	14.5	19.4
1 2	8 11.44	+25 29.1	1.066	2.020	9.3	19.1
1 12	8 1.85	+26 22.6	1.047	2.025	4.1	18.8
1 22	7 51.16	+27 7.4	1.053	2.031	4.3	18.8
2 1	7 41.29	+27 37.4	1.083	2.038	9.4	19.1
2 11	7 33.96	+27 50.6	1.136	2.045	14.5	19.4
2 21	7 30.19	+27 48.4	1.209	2.054	18.8	19.7
197600 2004 JC_{3}			1 17.8 202°72		0°9/17.4 18	
12 13	8 27.42	+21 29.6	1.854	2.655	14.8	21.9
12 23	8 21.62	+21 55.8	1.766	2.651	11.4	21.7
1 2	8 13.03	+22 28.2	1.701	2.646	7.3	21.4
1 12	8 2.37	+23 2.4	1.663	2.641	2.8	21.1
1 22	7 50.77	+23 33.5	1.654	2.635	2.4	21.1
2 1	7 39.57	+23 57.6	1.676	2.627	6.9	21.3
2 11	7 30.07	+24 12.8	1.724	2.620	11.2	21.6
2 21	7 23.21	+24 19.2	1.797	2.611	14.9	21.8

366747 2004 NM_{12} 1 17.8 140°.98 2°.0/17.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 26.51	+26 38.2	2.276	3.073	12.5	20.9
12 23	8 20.27	+26 50.6	2.199	3.082	9.5	20.7
1 2	8 11.79	+27 3.0	2.147	3.091	6.1	20.5
1 12	8 1.79	+27 11.4	2.124	3.100	2.8	20.3
1 22	7 51.26	+27 12.8	2.132	3.107	2.8	20.3
2 1	7 41.26	+27 5.5	2.169	3.115	6.1	20.5
2 11	7 32.79	+26 49.7	2.236	3.122	9.4	20.7
2 21	7 26.53	+26 26.9	2.327	3.129	12.3	20.9

397941 2008 XH_{48} 1 17.8 80°.36 0°.3/17.9 17

12 13	8 27.40	+17 44.9	1.524	2.331	17.2	21.6
12 23	8 21.57	+18 14.7	1.470	2.358	13.1	21.4
1 2	8 12.86	+18 54.7	1.439	2.385	8.3	21.2
1 12	8 2.22	+19 40.1	1.433	2.411	3.1	20.9
1 22	7 51.00	+20 25.2	1.456	2.437	2.1	20.9
2 1	7 40.64	+21 5.2	1.507	2.463	7.1	21.3
2 11	7 32.41	+21 37.3	1.584	2.488	11.5	21.6
2 21	7 27.05	+22 0.5	1.685	2.513	15.1	21.9

256903 2008 DF_{56} 1 17.8 64°.53 7°.0/15.7 18

12 13	8 31.08	+37 44.0	1.681	2.489	15.8	20.2
12 23	8 24.81	+38 26.6	1.619	2.497	12.6	20.0
1 2	8 15.13	+39 0.3	1.578	2.506	9.4	19.8
1 12	8 3.12	+39 16.6	1.563	2.514	7.2	19.7
1 22	7 50.35	+39 9.7	1.575	2.523	7.6	19.7
2 1	7 38.58	+38 38.2	1.614	2.532	10.2	19.9
2 11	7 29.30	+37 45.8	1.678	2.540	13.3	20.1
2 21	7 23.36	+36 38.9	1.763	2.549	16.3	20.3

165809 2001 RK_{78} 1 17.8 73°.17 8°.0/22.9 18

12 13	8 19.33	− 5 39.1	2.386	3.083	14.7	19.7
12 23	8 14.54	− 6 20.3	2.323	3.108	12.7	19.5
1 2	8 8.02	− 6 41.8	2.281	3.132	10.6	19.4
1 12	8 0.36	− 6 41.5	2.263	3.157	8.8	19.4
1 22	7 52.31	− 6 19.4	2.271	3.181	8.0	19.4
2 1	7 44.68	− 5 37.8	2.306	3.205	8.5	19.4
2 11	7 38.22	− 4 41.1	2.368	3.228	10.0	19.6
2 21	7 33.46	− 3 34.6	2.454	3.252	11.9	19.7

119429 2001 TH_{123} 1 17.8 24°.29 9°.5/21.4 18

12 13	8 20.26	− 0 30.8	1.604	2.360	18.7	19.4
12 23	8 16.18	− 1 43.6	1.533	2.364	15.9	19.3
1 2	8 9.52	− 2 34.6	1.481	2.370	12.9	19.1
1 12	8 1.04	− 2 59.5	1.452	2.376	10.4	19.0
1 22	7 51.80	− 2 56.7	1.447	2.382	9.5	18.9
2 1	7 43.05	− 2 27.7	1.467	2.389	10.6	19.0
2 11	7 35.96	− 1 38.1	1.512	2.397	13.2	19.2
2 21	7 31.32	− 0 35.3	1.578	2.405	16.0	19.4

414509 2009 SZ_{20} 1 17.8 45°.56 15°.5/ 3.7 18

12 13	8 23.27	−28 36.0	1.835	2.383	22.6	19.7
12 23	8 18.22	−28 40.1	1.773	2.403	21.1	19.6
1 2	8 10.64	−28 2.6	1.721	2.424	19.4	19.5
1 12	8 1.40	−26 37.6	1.684	2.445	17.7	19.4
1 22	7 51.62	−24 23.8	1.667	2.466	16.3	19.3
2 1	7 42.53	−21 25.9	1.673	2.488	15.6	19.4
2 11	7 35.22	−17 55.1	1.704	2.511	15.8	19.4
2 21	7 30.40	−14 6.7	1.760	2.533	16.8	19.5

122055 2000 GK_{145} 1 17.8 70°.09 0°.9/17.4 18

12 13	8 24.58	+18 54.5	1.382	2.203	17.9	19.4
12 23	8 20.01	+19 50.3	1.319	2.215	13.6	19.1
1 2	8 12.22	+20 58.6	1.278	2.228	8.6	18.9
1 12	8 2.11	+22 12.6	1.261	2.240	3.2	18.6
1 22	7 51.08	+23 24.1	1.272	2.253	2.7	18.6
2 1	7 40.76	+24 26.0	1.310	2.265	8.0	18.9
2 11	7 32.65	+25 14.1	1.373	2.278	12.8	19.2
2 21	7 27.67	+25 47.6	1.458	2.291	16.8	19.5

71678 2000 ET_{172} 1 17.8 52°.00 0°.4/17.7 18

12 13	8 21.46	+20 33.7	2.006	2.812	13.7	20.1
12 23	8 16.74	+20 50.4	1.930	2.818	10.4	19.9
1 2	8 9.71	+21 12.8	1.877	2.824	6.6	19.7
1 12	8 1.09	+21 37.7	1.851	2.830	2.5	19.5
1 22	7 51.84	+22 1.3	1.855	2.836	1.9	19.4
2 1	7 43.05	+22 20.8	1.888	2.842	6.0	19.7
2 11	7 35.75	+22 34.3	1.948	2.849	9.8	20.0
2 21	7 30.66	+22 41.4	2.032	2.855	13.1	20.2

356489 2011 RS_{19} 1 17.8 132°.95 3°.6/16.2 18

12 13	8 26.96	+26 36.5	1.655	2.470	15.7	20.6
12 23	8 21.59	+27 37.8	1.585	2.477	12.0	20.4
1 2	8 13.14	+28 42.7	1.538	2.484	7.9	20.2
1 12	8 2.46	+29 43.4	1.517	2.490	4.2	20.0
1 22	7 50.84	+30 32.5	1.525	2.496	4.6	20.0
2 1	7 39.83	+31 5.1	1.560	2.502	8.4	20.2
2 11	7 30.87	+31 20.2	1.622	2.507	12.4	20.5
2 21	7 24.88	+31 19.9	1.706	2.512	15.9	20.7

2572 Annschnell 1 17.8 237°.02 3°.1/19.1 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 23.49	+11 49.8	1.861	2.647	15.4	17.6
12 23	8 18.57	+11 44.5	1.765	2.636	12.2	17.4
1 2	8 11.09	+11 51.9	1.692	2.626	8.4	17.1
1 12	8 1.69	+12 11.3	1.645	2.614	4.5	16.9
1 22	7 51.36	+12 40.5	1.626	2.603	3.4	16.8
2 1	7 41.29	+13 16.0	1.636	2.590	6.8	16.9
2 11	7 32.70	+13 54.2	1.674	2.578	10.9	17.2
2 21	7 26.47	+14 31.6	1.735	2.565	14.7	17.4

63758 2001 QP_{277} 1 17.8 81°.64 5°.0/15.2 18

12 13	8 25.14	+34 52.1	2.326	3.127	12.2	18.9
12 23	8 19.38	+35 49.0	2.269	3.147	9.5	18.8
1 2	8 11.30	+36 41.0	2.237	3.166	6.9	18.7
1 12	8 1.65	+37 22.3	2.232	3.186	5.2	18.6
1 22	7 51.47	+37 48.3	2.257	3.205	5.6	18.6
2 1	7 41.88	+37 56.9	2.310	3.224	7.7	18.8
2 11	7 33.91	+37 49.0	2.390	3.243	10.2	19.0
2 21	7 28.24	+37 27.3	2.493	3.262	12.5	19.2

248091 2004 RV_{42} 1 17.8 203°.59 1°.3/17.4 18

12 13	8 28.36	+23 22.0	1.841	2.644	14.8	21.4
12 23	8 22.36	+23 37.3	1.754	2.640	11.4	21.1
1 2	8 13.52	+23 56.3	1.689	2.635	7.3	20.9
1 12	8 2.60	+24 14.6	1.652	2.630	2.9	20.6
1 22	7 50.76	+24 27.8	1.645	2.624	2.6	20.6
2 1	7 39.39	+24 33.1	1.667	2.618	7.0	20.8
2 11	7 29.82	+24 29.4	1.716	2.611	11.3	21.1
2 21	7 22.93	+24 17.9	1.789	2.603	14.9	21.3

50874 2000 GE_{23} 1 17.8 77°.33 2°.9/19.2 18

12 13	8 24.45	+11 31.6	1.758	2.545	16.1	18.6
12 23	8 18.96	+11 34.6	1.700	2.571	12.5	18.4
1 2	8 11.05	+11 51.3	1.664	2.598	8.5	18.3
1 12	8 1.57	+12 19.8	1.654	2.624	4.5	18.1
1 22	7 51.58	+12 56.6	1.673	2.650	3.2	18.1
2 1	7 42.28	+13 37.9	1.721	2.676	6.5	18.3
2 11	7 34.71	+14 19.5	1.796	2.701	10.3	18.6
2 21	7 29.54	+14 58.4	1.896	2.726	13.6	18.8

491037 2011 QW_{11} 1 17.8 81°.86 0°.2/17.9 16

12 13	8 30.90	+18 32.3	1.709	2.503	16.2	22.6
12 23	8 23.76	+18 52.4	1.662	2.543	12.2	22.5
1 2	8 14.01	+19 19.9	1.638	2.582	7.7	22.3
1 12	8 2.63	+19 50.5	1.642	2.620	2.9	22.1
1 22	7 50.88	+20 20.0	1.676	2.657	2.0	22.1
2 1	7 40.09	+20 44.9	1.739	2.693	6.5	22.4
2 11	7 31.37	+21 3.4	1.830	2.729	10.5	22.8
2 21	7 25.36	+21 15.4	1.945	2.763	13.8	23.0

8376 1992 OZ_{9} 1 17.8 162°.48 0°.8/17.2 18

12 13	8 16.31	+23 36.0	3.953	4.743	7.8	18.6
12 23	8 11.83	+23 57.1	3.866	4.747	5.9	18.5
1 2	8 6.16	+24 19.6	3.807	4.751	3.7	18.3
1 12	7 59.69	+24 41.8	3.777	4.755	1.5	18.2
1 22	7 52.91	+25 1.7	3.780	4.758	1.4	18.2
2 1	7 46.32	+25 17.9	3.814	4.761	3.6	18.3
2 11	7 40.44	+25 29.6	3.878	4.764	5.8	18.5
2 21	7 35.66	+25 36.3	3.969	4.767	7.7	18.6

502176 2015 BG_{61} 1 17.8 122°.42 2°.8/16.6 18

12 13	8 23.76	+28 32.2	2.294	3.098	12.2	21.2
12 23	8 18.31	+28 56.8	2.216	3.102	9.4	21.0
1 2	8 10.64	+29 20.8	2.163	3.106	6.2	20.8
1 12	8 1.45	+29 39.7	2.138	3.110	3.3	20.6
1 22	7 51.66	+29 49.9	2.143	3.114	3.5	20.7
2 1	7 42.34	+29 49.5	2.177	3.118	6.4	20.9
2 11	7 34.49	+29 38.4	2.239	3.122	9.6	21.1
2 21	7 28.79	+29 18.1	2.326	3.126	12.4	21.2

239713 2009 AD_{43} 1 17.8 233°.98 0°.4/18.1 18

12 13	8 19.20	+17 32.7	2.403	3.198	12.0	20.8
12 23	8 14.75	+17 58.3	2.315	3.196	9.2	20.6
1 2	8 8.36	+18 31.5	2.251	3.194	5.9	20.4
1 12	8 0.60	+19 9.5	2.215	3.192	2.3	20.1
1 22	7 52.24	+19 49.2	2.209	3.190	1.5	20.0
2 1	7 44.16	+20 27.3	2.233	3.188	5.2	20.3
2 11	7 37.21	+21 1.2	2.286	3.186	8.6	20.5
2 21	7 32.06	+21 29.5	2.364	3.184	11.6	20.7

78732 2002 TH_{242} 1 17.8 62°.67 4°.8/14.9 18

12 13	8 22.95	+31 28.3	2.097	2.908	13.0	19.4
12 23	8 18.06	+32 47.3	2.033	2.919	10.0	19.2
1 2	8 10.67	+34 5.4	1.993	2.931	7.0	19.1
1 12	8 1.51	+35 15.3	1.982	2.943	5.0	18.9
1 22	7 51.61	+36 10.7	1.999	2.954	5.6	19.0
2 1	7 42.19	+36 47.8	2.045	2.966	8.1	19.2
2 11	7 34.38	+37 6.1	2.117	2.978	11.0	19.4
2 21	7 28.97	+37 7.7	2.212	2.990	13.6	19.6

224548 2005 WZ_{147} 1 17.8 126°.95 2°.7/16.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 25.43	+27 12.0	2.451	3.247	11.8	21.7
12 23	8 19.39	+28 3.1	2.383	3.265	8.9	21.6
1 2	8 11.24	+28 55.0	2.341	3.283	5.8	21.4
1 12	8 1.66	+29 42.7	2.328	3.300	3.1	21.2
1 22	7 51.53	+30 21.8	2.346	3.316	3.4	21.3
2 1	7 41.86	+30 49.4	2.394	3.331	6.2	21.5
2 11	7 33.59	+31 4.7	2.472	3.346	9.1	21.7
2 21	7 27.36	+31 8.9	2.573	3.360	11.7	21.9

295968 2008 YO_{25} 1 17.8 29°.87 4°.4/20.8 17

12 13	8 20.39	+ 0 49.0	1.085	1.880	23.5	18.8
12 23	8 17.31	+ 2 50.2	1.026	1.897	18.9	18.5
1 2	8 10.76	+ 5 36.6	0.985	1.915	13.3	18.3
1 12	8 1.66	+ 9 1.3	0.968	1.935	7.5	18.0
1 22	7 51.50	+12 47.3	0.977	1.956	4.4	17.9
2 1	7 42.08	+16 32.7	1.016	1.978	8.6	18.2
2 11	7 35.06	+19 57.7	1.081	2.001	13.9	18.6
2 21	7 31.44	+22 51.0	1.169	2.025	18.5	18.9

117597 2005 ED_{65} 1 17.8 318°.76 4°.6/16.2 18

12 13	8 26.14	+29 53.3	1.532	2.355	16.3	20.1
12 23	8 21.38	+30 35.0	1.454	2.349	12.7	19.8
1 2	8 13.23	+31 16.5	1.399	2.344	8.6	19.6
1 12	8 2.58	+31 50.1	1.368	2.338	5.1	19.4
1 22	7 50.84	+32 8.8	1.365	2.333	5.5	19.4
2 1	7 39.72	+32 8.7	1.388	2.329	9.3	19.6
2 11	7 30.83	+31 50.4	1.436	2.324	13.5	19.8
2 21	7 25.19	+31 17.6	1.505	2.320	17.2	20.0

407344 2010 RX_{58} 1 17.8 61°.97 0°.0/17.8 18

12 13	8 25.08	+20 14.6	1.593	2.405	16.3	21.5
12 23	8 19.91	+20 18.0	1.527	2.418	12.4	21.3
1 2	8 11.91	+20 28.0	1.484	2.432	7.9	21.0
1 12	8 1.98	+20 41.0	1.467	2.445	3.0	20.8
1 22	7 51.37	+20 53.2	1.477	2.459	2.1	20.7
2 1	7 41.48	+21 1.9	1.516	2.473	7.0	21.1
2 11	7 33.59	+21 5.4	1.581	2.486	11.3	21.4
2 21	7 28.45	+21 3.6	1.668	2.500	15.0	21.6

169882 2002 RH_{146} 1 17.8 97°.38 3°.3/19.5 18

12 13	8 19.91	+ 9 52.8	2.276	3.050	13.3	20.6
12 23	8 15.22	+ 9 44.2	2.196	3.058	10.5	20.4
1 2	8 8.61	+ 9 47.0	2.140	3.067	7.4	20.2
1 12	8 0.70	+10 0.9	2.111	3.075	4.4	20.0
1 22	7 52.26	+10 24.1	2.111	3.083	3.4	20.0
2 1	7 44.18	+10 54.0	2.141	3.092	5.8	20.2
2 11	7 37.32	+11 27.6	2.199	3.100	8.8	20.4
2 21	7 32.29	+12 2.1	2.282	3.108	11.7	20.6

321261 2009 DL_{42} 1 17.8 339°.60 2°.3/16.8 18

12 13	8 20.56	+25 58.4	2.016	2.831	13.3	20.1
12 23	8 16.27	+26 23.8	1.931	2.823	10.2	19.8
1 2	8 9.57	+26 51.2	1.869	2.817	6.6	19.6
1 12	8 1.13	+27 16.2	1.835	2.811	3.1	19.4
1 22	7 51.94	+27 34.6	1.829	2.805	3.2	19.4
2 1	7 43.14	+27 43.6	1.852	2.800	6.8	19.6
2 11	7 35.84	+27 42.2	1.901	2.795	10.4	19.8
2 21	7 30.83	+27 31.3	1.974	2.790	13.6	20.0

55404 2001 SY_{343} 1 17.9 93°.49 0°.3/17.6 18

12 13	8 19.66	+18 31.4	2.394	3.190	12.0	18.9
12 23	8 15.09	+19 21.0	2.315	3.198	9.1	18.8
1 2	8 8.58	+20 18.3	2.261	3.206	5.8	18.6
1 12	8 0.71	+21 19.6	2.236	3.215	2.1	18.3
1 22	7 52.26	+22 20.4	2.242	3.223	1.7	18.3
2 1	7 44.12	+23 16.7	2.278	3.231	5.3	18.6
2 11	7 37.16	+24 5.6	2.343	3.239	8.6	18.8
2 21	7 32.02	+24 45.6	2.433	3.246	11.5	19.0

63437 2001 MY_{23} 1 17.9 119°.04 2°.5/16.9 18

12 13	8 28.93	+27 50.8	2.086	2.885	13.5	19.4
12 23	8 22.27	+28 5.2	2.017	2.901	10.3	19.2
1 2	8 13.14	+28 18.6	1.973	2.916	6.7	19.0
1 12	8 2.40	+28 26.3	1.957	2.931	3.3	18.8
1 22	7 51.13	+28 25.1	1.971	2.945	3.3	18.8
2 1	7 40.54	+28 13.4	2.015	2.959	6.6	19.1
2 11	7 31.72	+27 51.9	2.087	2.972	10.0	19.3
2 21	7 25.34	+27 22.8	2.184	2.985	13.0	19.5

242826 2006 CN_{57} 1 17.9 230°.49 0°.2/17.9 18

12 13	8 25.26	+18 29.9	1.870	2.669	14.8	21.9
12 23	8 20.03	+18 50.0	1.775	2.659	11.4	21.7
1 2	8 12.11	+19 18.8	1.703	2.648	7.4	21.4
1 12	8 2.16	+19 53.0	1.658	2.636	2.8	21.1
1 22	7 51.22	+20 28.4	1.643	2.624	2.0	21.0
2 1	7 40.56	+21 0.8	1.656	2.611	6.7	21.3
2 11	7 31.47	+21 27.5	1.698	2.598	11.0	21.5
2 21	7 24.86	+21 47.0	1.763	2.584	14.8	21.7

91246 1999 CE_{35} 1 17.9 300°.90 1°.5/17.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 22.21	+20 36.9	1.399	2.226	17.4	18.9
12 23	8 18.76	+21 23.4	1.305	2.204	13.5	18.6
1 2	8 11.89	+22 23.0	1.231	2.183	8.7	18.2
1 12	8 2.25	+23 29.8	1.182	2.161	3.4	17.9
1 22	7 51.08	+24 35.9	1.160	2.140	3.2	17.8
2 1	7 40.07	+25 33.5	1.164	2.119	8.8	18.1
2 11	7 31.03	+26 17.5	1.192	2.099	14.2	18.3
2 21	7 25.25	+26 46.4	1.241	2.078	18.8	18.5

306225 2011 QH_{55} 1 17.9 228°.53 4°.4/19.5 18

12 13	8 23.73	+ 9 23.7	1.660	2.445	16.9	21.5
12 23	8 18.99	+ 9 6.5	1.572	2.440	13.6	21.3
1 2	8 11.48	+ 9 4.8	1.505	2.434	9.7	21.1
1 12	8 1.93	+ 9 19.1	1.464	2.428	5.9	20.8
1 22	7 51.40	+ 9 47.5	1.449	2.422	4.6	20.7
2 1	7 41.23	+10 26.6	1.463	2.415	7.7	20.9
2 11	7 32.72	+11 11.7	1.502	2.408	11.8	21.1
2 21	7 26.80	+11 58.2	1.565	2.401	15.7	21.3

443932 2002 TX_{135} 1 17.9 61°.11 0°.0/17.8 17

12 13	8 29.90	+21 16.8	1.213	2.038	19.7	21.0
12 23	8 24.16	+21 4.6	1.161	2.058	15.0	20.7
1 2	8 14.83	+20 58.7	1.128	2.078	9.5	20.5
1 12	8 3.11	+20 54.9	1.119	2.098	3.6	20.2
1 22	7 50.72	+20 49.6	1.137	2.118	2.5	20.2
2 1	7 39.50	+20 40.5	1.181	2.139	8.2	20.6
2 11	7 31.01	+20 27.2	1.249	2.159	13.3	20.9
2 21	7 26.02	+20 10.5	1.338	2.180	17.5	21.2

57810 2001 WC 1 17.9 83°.23 2°.3/16.9 18

12 13	8 25.03	+25 12.2	1.839	2.650	14.5	19.0
12 23	8 19.68	+25 43.4	1.771	2.662	11.0	18.8
1 2	8 11.71	+26 17.2	1.727	2.674	7.1	18.5
1 12	8 1.93	+26 48.3	1.710	2.687	3.2	18.3
1 22	7 51.49	+27 12.1	1.722	2.699	3.2	18.4
2 1	7 41.68	+27 25.3	1.763	2.711	7.0	18.6
2 11	7 33.67	+27 27.4	1.830	2.723	10.8	18.9
2 21	7 28.21	+27 19.7	1.921	2.735	14.1	19.1

51459 2001 FC_{43} 1 17.9 202°.22 0°.9/18.2 18

12 13	8 27.29	+17 1.8	1.855	2.647	15.1	19.7
12 23	8 21.50	+17 12.6	1.764	2.643	11.7	19.5
1 2	8 13.00	+17 32.5	1.696	2.638	7.6	19.2
1 12	8 2.49	+17 58.9	1.655	2.632	3.1	18.9
1 22	7 51.04	+18 27.9	1.644	2.625	2.0	18.8
2 1	7 39.96	+18 56.0	1.662	2.618	6.6	19.1
2 11	7 30.51	+19 20.2	1.709	2.609	11.0	19.3
2 21	7 23.59	+19 39.3	1.779	2.600	14.7	19.5

288285 2004 AZ_{11} 1 17.9 322°.75 0°.8/17.5 18

12 13	8 21.36	+22 27.7	2.024	2.832	13.5	20.5
12 23	8 16.82	+22 36.2	1.935	2.824	10.3	20.2
1 2	8 9.91	+22 48.5	1.869	2.817	6.6	20.0
1 12	8 1.29	+23 1.6	1.831	2.809	2.5	19.7
1 22	7 51.93	+23 12.0	1.821	2.802	2.1	19.7
2 1	7 42.93	+23 17.4	1.841	2.795	6.2	19.9
2 11	7 35.40	+23 16.5	1.888	2.788	10.1	20.2
2 21	7 30.10	+23 9.4	1.958	2.782	13.5	20.4

467234 2016 EK_{165} 1 17.9 26°.32 6°.6/16.4 16

12 13	8 29.13	+36 1.1	1.431	2.253	17.4	20.6
12 23	8 23.62	+36 24.1	1.374	2.264	13.7	20.4
1 2	8 14.51	+36 38.0	1.339	2.276	9.8	20.2
1 12	8 3.01	+36 34.6	1.328	2.288	7.0	20.0
1 22	7 50.82	+36 9.0	1.343	2.302	7.2	20.1
2 1	7 39.83	+35 20.9	1.384	2.317	10.2	20.3
2 11	7 31.55	+34 15.0	1.449	2.332	13.8	20.5
2 21	7 26.76	+32 57.9	1.536	2.348	17.1	20.8

283574 2001 XV_{20} 1 17.9 106°.17 2°.6/17.0 18

12 13	8 30.60	+26 16.7	1.661	2.470	16.0	20.4
12 23	8 24.07	+26 40.5	1.600	2.488	12.1	20.2
1 2	8 14.54	+27 5.3	1.560	2.506	7.8	20.0
1 12	8 2.99	+27 25.3	1.548	2.524	3.6	19.8
1 22	7 50.80	+27 35.6	1.565	2.541	3.6	19.8
2 1	7 39.48	+27 33.8	1.610	2.557	7.6	20.1
2 11	7 30.34	+27 20.4	1.682	2.573	11.7	20.4
2 21	7 24.17	+26 57.9	1.776	2.589	15.1	20.7

277845 2006 HA_{93} 1 17.9 125°.07 4°.3/20.3 18

12 13	8 19.62	+ 5 49.7	2.459	3.212	12.9	21.2
12 23	8 14.87	+ 5 36.6	2.377	3.221	10.5	21.1
1 2	8 8.36	+ 5 36.6	2.319	3.230	7.7	20.9
1 12	8 0.63	+ 5 49.8	2.288	3.239	5.3	20.8
1 22	7 52.42	+ 6 15.1	2.286	3.247	4.4	20.7
2 1	7 44.53	+ 6 50.1	2.313	3.256	6.0	20.9
2 11	7 37.75	+ 7 31.5	2.369	3.264	8.6	21.0
2 21	7 32.63	+ 8 15.9	2.451	3.271	11.2	21.2

290642 2005 UG_{263} 1 17.9 81°.90 0°.8/17.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 23.06	+20 52.0	1.856	2.664	14.5	21.4
12 23	8 18.17	+21 21.1	1.783	2.672	11.0	21.2
1 2	8 10.77	+21 56.8	1.734	2.681	7.0	21.0
1 12	8 1.61	+22 34.8	1.711	2.690	2.6	20.7
1 22	7 51.75	+23 10.5	1.717	2.698	2.2	20.7
2 1	7 42.40	+23 40.0	1.753	2.707	6.5	21.0
2 11	7 34.71	+24 1.2	1.815	2.715	10.5	21.2
2 21	7 29.43	+24 13.9	1.901	2.724	13.9	21.5

374220 2005 EP_{317} 1 17.9 1°.58 6°.9/15.1 18

12 13	8 24.29	+36 31.1	1.717	2.535	15.1	20.1
12 23	8 19.78	+37 27.1	1.648	2.534	12.0	19.9
1 2	8 12.11	+38 16.9	1.602	2.533	9.0	19.7
1 12	8 2.18	+38 52.2	1.581	2.533	7.0	19.6
1 22	7 51.34	+39 6.5	1.586	2.534	7.6	19.7
2 1	7 41.21	+38 57.1	1.618	2.536	10.1	19.8
2 11	7 33.22	+38 25.8	1.674	2.538	13.2	20.0
2 21	7 28.28	+37 37.4	1.751	2.542	16.2	20.2

70189 1999 RR_{11} 1 17.9 243°.42 4°.4/19.8 18

12 13	8 23.36	+ 7 33.1	2.027	2.792	15.0	19.7
12 23	8 18.38	+ 7 24.2	1.921	2.775	12.1	19.5
1 2	8 11.00	+ 7 30.3	1.837	2.758	8.8	19.2
1 12	8 1.79	+ 7 51.8	1.780	2.739	5.6	19.0
1 22	7 51.61	+ 8 27.2	1.751	2.720	4.5	18.9
2 1	7 41.57	+ 9 13.7	1.752	2.700	7.0	19.0
2 11	7 32.79	+10 6.8	1.781	2.680	10.7	19.2
2 21	7 26.16	+11 2.1	1.834	2.659	14.2	19.3

114777 2003 MG_{2} 1 17.9 148°.98 2°.5/19.0 18

12 13	8 22.47	+12 48.2	2.424	3.199	12.5	20.1
12 23	8 17.07	+12 31.6	2.341	3.206	9.8	19.9
1 2	8 9.78	+12 23.3	2.281	3.212	6.7	19.7
1 12	8 1.20	+12 22.8	2.250	3.219	3.6	19.5
1 22	7 52.11	+12 28.6	2.249	3.224	2.7	19.5
2 1	7 43.38	+12 39.2	2.278	3.230	5.4	19.7
2 11	7 35.85	+12 52.4	2.337	3.235	8.5	19.9
2 21	7 30.12	+13 6.5	2.420	3.240	11.3	20.1

251029 2006 QH_{94} 1 17.9 193°.04 0°.3/17.7 18

12 13	8 25.20	+20 16.5	2.096	2.892	13.5	22.0
12 23	8 19.64	+20 36.5	2.007	2.890	10.3	21.8
1 2	8 11.67	+21 2.6	1.943	2.888	6.6	21.5
1 12	8 1.98	+21 31.3	1.907	2.885	2.5	21.3
1 22	7 51.53	+21 58.8	1.901	2.882	1.9	21.2
2 1	7 41.44	+22 21.8	1.925	2.878	6.1	21.5
2 11	7 32.81	+22 38.5	1.977	2.873	9.9	21.7
2 21	7 26.42	+22 48.3	2.053	2.868	13.3	21.9

101384 1998 UW_{23} 1 17.9 38°.97 0°.6/18.1 18

12 13	8 21.96	+16 8.0	1.286	2.110	18.8	19.0
12 23	8 18.02	+16 47.2	1.234	2.131	14.3	18.8
1 2	8 10.94	+17 41.1	1.203	2.152	9.2	18.6
1 12	8 1.72	+18 44.4	1.196	2.174	3.6	18.3
1 22	7 51.78	+19 49.5	1.215	2.197	2.3	18.3
2 1	7 42.69	+20 49.8	1.261	2.220	7.6	18.7
2 11	7 35.83	+21 40.3	1.331	2.244	12.4	19.0
2 21	7 32.00	+22 19.0	1.423	2.269	16.4	19.3

426178 2012 JT_{15} 1 17.9 229°.41 2°.7/19.3 18

12 13	8 20.30	+10 45.4	2.094	2.875	14.0	21.4
12 23	8 15.86	+10 59.3	2.003	2.871	11.1	21.2
1 2	8 9.25	+11 26.6	1.936	2.868	7.6	21.0
1 12	8 1.08	+12 6.1	1.895	2.864	4.1	20.7
1 22	7 52.17	+12 54.8	1.883	2.860	3.0	20.7
2 1	7 43.54	+13 48.7	1.901	2.856	6.0	20.8
2 11	7 36.17	+14 43.6	1.947	2.851	9.6	21.1
2 21	7 30.82	+15 36.1	2.017	2.847	12.9	21.3

369597 2011 CQ_{28} 1 17.9 37°.55 2°.9/16.7 18

12 13	8 23.85	+26 34.4	1.685	2.505	15.3	20.7
12 23	8 19.10	+27 8.1	1.618	2.512	11.6	20.5
1 2	8 11.51	+27 43.6	1.573	2.520	7.6	20.2
1 12	8 1.94	+28 15.1	1.554	2.529	3.7	20.0
1 22	7 51.62	+28 37.3	1.562	2.537	3.9	20.0
2 1	7 41.94	+28 46.9	1.599	2.546	7.7	20.3
2 11	7 34.20	+28 43.6	1.662	2.556	11.6	20.6
2 21	7 29.21	+28 29.0	1.746	2.565	15.0	20.8

293588 2007 JO_{11} 1 17.9 217°.39 0°.5/18.1 18

12 13	8 26.47	+18 17.7	1.796	2.595	15.3	21.7
12 23	8 21.02	+18 26.9	1.705	2.588	11.8	21.4
1 2	8 12.78	+18 44.4	1.637	2.581	7.7	21.2
1 12	8 2.47	+19 7.2	1.595	2.573	3.0	20.9
1 22	7 51.19	+19 31.5	1.583	2.564	2.0	20.8
2 1	7 40.27	+19 53.7	1.600	2.555	6.8	21.1
2 11	7 31.03	+20 11.4	1.644	2.545	11.2	21.3
2 21	7 24.39	+20 23.5	1.711	2.535	15.1	21.5

154988 2004 XN_{35} 1 17.9 89°.67 2°.3/18.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	9 2.15	+ 9 57.9	1.110	1.860	25.7	21.0
12 23	8 47.93	+11 13.1	1.077	1.930	19.6	20.9
1 2	8 29.40	+12 50.0	1.066	1.995	12.7	20.7
1 12	8 8.38	+14 37.5	1.083	2.056	5.5	20.5
1 22	7 47.41	+16 22.4	1.133	2.113	3.3	20.5
2 1	7 28.98	+17 54.3	1.215	2.166	9.2	21.0
2 11	7 14.77	+19 9.0	1.326	2.214	14.4	21.5
2 21	7 5.35	+20 6.8	1.460	2.259	18.4	21.8

462394 2008 SS_{222} 1 17.9 227°.44 5°.6/15.2 18

12 13	8 28.18	+37 18.5	2.345	3.138	12.3	21.7
12 23	8 22.01	+38 1.5	2.260	3.131	9.9	21.5
1 2	8 13.23	+38 38.4	2.199	3.123	7.4	21.3
1 12	8 2.58	+39 3.1	2.166	3.114	5.8	21.2
1 22	7 51.15	+39 10.7	2.162	3.106	6.2	21.2
2 1	7 40.18	+38 58.9	2.187	3.097	8.3	21.3
2 11	7 30.89	+38 29.1	2.239	3.088	11.0	21.5
2 21	7 24.08	+37 44.9	2.313	3.079	13.5	21.6

353988 2000 QD_{115} 1 17.9 125°.06 0°.4/17.7 18

12 13	8 28.99	+20 49.4	1.946	2.740	14.5	21.8
12 23	8 22.40	+21 2.6	1.878	2.760	11.0	21.6
1 2	8 13.32	+21 20.9	1.834	2.778	7.0	21.4
1 12	8 2.55	+21 40.4	1.817	2.795	2.6	21.1
1 22	7 51.22	+21 57.4	1.831	2.812	1.9	21.1
2 1	7 40.54	+22 9.5	1.875	2.828	6.2	21.4
2 11	7 31.62	+22 15.3	1.947	2.843	10.1	21.7
2 21	7 25.17	+22 15.2	2.044	2.857	13.4	21.9

266613 2008 OQ_{10} 1 17.9 194°.22 1°.7/17.0 18

12 13	8 24.06	+25 1.0	2.405	3.203	11.9	21.7
12 23	8 18.52	+25 25.5	2.317	3.201	9.1	21.5
1 2	8 10.85	+25 51.9	2.254	3.199	5.8	21.3
1 12	8 1.66	+26 16.5	2.220	3.196	2.6	21.0
1 22	7 51.82	+26 35.8	2.216	3.193	2.6	21.0
2 1	7 42.33	+26 47.3	2.242	3.189	5.8	21.2
2 11	7 34.15	+26 50.0	2.298	3.185	9.1	21.4
2 21	7 27.98	+26 44.7	2.378	3.181	12.0	21.6

59108 1998 WG_{27} 1 17.9 343°.54 1°.1/17.5 18

12 13	8 21.89	+20 23.5	1.258	2.092	18.6	18.5
12 23	8 18.54	+20 58.3	1.184	2.086	14.3	18.2
1 2	8 11.69	+21 44.7	1.129	2.081	9.1	17.9
1 12	8 2.18	+22 37.1	1.098	2.077	3.5	17.5
1 22	7 51.41	+23 27.8	1.092	2.073	3.0	17.5
2 1	7 41.20	+24 10.2	1.112	2.070	8.7	17.8
2 11	7 33.28	+24 40.4	1.155	2.067	14.0	18.1
2 21	7 28.73	+24 57.6	1.219	2.066	18.5	18.4

258214 2001 TN_{5} 1 17.9 201°.32 1°.4/17.1 18

12 13	8 24.48	+22 56.5	2.408	3.202	12.0	21.7
12 23	8 18.90	+23 35.1	2.315	3.197	9.2	21.5
1 2	8 11.14	+24 18.0	2.248	3.192	5.9	21.2
1 12	8 1.80	+25 1.2	2.209	3.186	2.4	21.0
1 22	7 51.72	+25 40.5	2.202	3.180	2.4	21.0
2 1	7 41.91	+26 12.5	2.225	3.172	5.8	21.2
2 11	7 33.36	+26 35.4	2.277	3.164	9.2	21.4
2 21	7 26.80	+26 49.1	2.354	3.155	12.2	21.6

48357 1013 $T\text{-}_{2}$ 1 17.9 185°.33 1°.7/18.5 18

12 13	8 27.17	+15 3.6	1.799	2.589	15.7	20.4
12 23	8 21.44	+15 12.3	1.713	2.589	12.2	20.2
1 2	8 12.99	+15 32.2	1.649	2.589	8.1	19.9
1 12	8 2.55	+16 0.8	1.613	2.588	3.6	19.6
1 22	7 51.21	+16 34.5	1.606	2.586	2.4	19.6
2 1	7 40.28	+17 9.3	1.628	2.583	6.7	19.8
2 11	7 31.04	+17 41.8	1.678	2.580	11.0	20.1
2 21	7 24.35	+18 9.9	1.752	2.576	14.8	20.3

5236 Yoko 1 17.9 59°.99 5°.7/20.0 18 R

12 13	8 23.38	+ 7 31.5	1.398	2.190	19.2	16.6
12 23	8 18.91	+ 7 3.1	1.332	2.202	15.5	16.4
1 2	8 11.48	+ 6 54.4	1.287	2.213	11.2	16.2
1 12	8 1.97	+ 7 6.2	1.265	2.225	7.2	16.0
1 22	7 51.65	+ 7 36.6	1.268	2.237	5.8	15.9
2 1	7 42.01	+ 8 21.2	1.298	2.249	8.6	16.1
2 11	7 34.37	+ 9 13.9	1.352	2.261	12.6	16.4
2 21	7 29.60	+10 8.8	1.429	2.274	16.4	16.6

161186 2002 TW_{135} 1 17.9 94°.19 0°.4/17.7 18

12 13	8 23.53	+22 0.9	2.317	3.114	12.4	19.6
12 23	8 17.97	+22 2.2	2.244	3.127	9.4	19.5
1 2	8 10.38	+22 6.3	2.196	3.141	5.9	19.3
1 12	8 1.44	+22 10.8	2.176	3.154	2.2	19.0
1 22	7 52.05	+22 13.2	2.186	3.167	1.7	19.0
2 1	7 43.14	+22 12.0	2.227	3.181	5.4	19.3
2 11	7 35.62	+22 6.3	2.297	3.194	8.7	19.5
2 21	7 30.09	+21 56.4	2.391	3.206	11.6	19.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
206206 2002 US_{40}			1 17.9	44°.58	2°.3/19.1	18
	h m	° ′			°	m
12 13	8 19.21	+11 56.6	1.942	2.733	14.6	20.1
12 23	8 15.04	+12 15.6	1.872	2.747	11.4	20.0
1 2	8 8.69	+12 47.9	1.825	2.762	7.7	19.8
1 12	8 0.86	+13 31.1	1.804	2.776	3.9	19.6
1 22	7 52.45	+14 21.7	1.812	2.791	2.6	19.5
2 1	7 44.49	+15 15.4	1.850	2.806	5.9	19.7
2 11	7 37.96	+16 7.9	1.914	2.822	9.5	20.0
2 21	7 33.51	+16 56.0	2.003	2.838	12.8	20.2
451229 2010 CA_{179}			1 17.9	277°.21	3°.4/19.1	18
12 13	8 23.24	+12 16.0	1.512	2.313	17.6	21.1
12 23	8 19.00	+12 5.8	1.422	2.303	13.9	20.9
1 2	8 11.74	+12 10.4	1.354	2.292	9.6	20.6
1 12	8 2.17	+12 29.2	1.310	2.281	5.1	20.3
1 22	7 51.46	+12 59.7	1.292	2.270	3.8	20.2
2 1	7 41.08	+13 37.7	1.302	2.259	7.8	20.4
2 11	7 32.50	+14 18.6	1.337	2.248	12.6	20.6
2 21	7 26.77	+14 58.4	1.394	2.237	16.8	20.9
208470 2001 UG_{96}			1 17.9	67°.97	0°.8/17.5	18
12 13	8 21.84	+21 51.3	2.217	3.019	12.7	20.6
12 23	8 16.78	+22 14.5	2.152	3.038	9.6	20.4
1 2	8 9.66	+22 41.8	2.112	3.058	6.0	20.2
1 12	8 1.19	+23 9.7	2.099	3.078	2.3	20.0
1 22	7 52.25	+23 34.7	2.117	3.097	1.9	20.0
2 1	7 43.81	+23 54.3	2.164	3.117	5.6	20.3
2 11	7 36.78	+24 7.1	2.240	3.136	8.9	20.5
2 21	7 31.76	+24 13.0	2.340	3.156	11.8	20.8
364419 2006 WK_{28}			1 17.9	87°.81	3°.3/19.3	18
12 13	8 24.02	+11 21.8	1.821	2.606	15.7	21.1
12 23	8 18.72	+11 10.5	1.755	2.624	12.3	21.0
1 2	8 11.02	+11 12.1	1.711	2.643	8.5	20.8
1 12	8 1.73	+11 25.5	1.693	2.660	4.7	20.6
1 22	7 51.87	+11 48.5	1.703	2.678	3.5	20.5
2 1	7 42.60	+12 17.7	1.742	2.696	6.6	20.8
2 11	7 34.96	+12 49.7	1.809	2.713	10.2	21.0
2 21	7 29.65	+13 21.4	1.899	2.730	13.5	21.3
96032 2004 PN_{35}			1 17.9	129°.11	1°.0/17.4	18
12 13	8 23.75	+22 16.9	2.151	2.952	13.1	20.8
12 23	8 18.40	+22 41.9	2.075	2.961	9.9	20.6
1 2	8 10.81	+23 11.2	2.023	2.969	6.3	20.4
1 12	8 1.66	+23 40.9	1.999	2.977	2.4	20.1
1 22	7 51.90	+24 7.2	2.005	2.985	2.1	20.1
2 1	7 42.59	+24 27.3	2.041	2.992	5.9	20.4
2 11	7 34.75	+24 39.6	2.105	3.000	9.5	20.6
2 21	7 29.05	+24 44.3	2.193	3.007	12.6	20.8
462357 2008 RU_{109}			1 17.9	125°.87	0°.6/17.6	18
12 13	8 22.46	+21 12.6	2.254	3.053	12.6	21.9
12 23	8 17.32	+21 32.2	2.176	3.060	9.6	21.7
1 2	8 10.08	+21 56.4	2.122	3.067	6.1	21.5
1 12	8 1.38	+22 22.1	2.096	3.074	2.3	21.3
1 22	7 52.10	+22 45.8	2.100	3.080	1.8	21.3
2 1	7 43.24	+23 4.9	2.134	3.087	5.6	21.5
2 11	7 35.72	+23 17.9	2.196	3.093	9.1	21.8
2 21	7 30.22	+23 24.4	2.283	3.099	12.1	22.0
381651 2008 YP_{170}			1 17.9	149°.32	1°.7/19.1	17
12 13	8 19.04	+11 49.9	2.757	3.529	11.3	21.3
12 23	8 14.37	+12 20.9	2.670	3.535	8.8	21.2
1 2	8 8.06	+13 2.0	2.609	3.541	5.9	21.0
1 12	8 0.60	+13 51.4	2.576	3.547	2.9	20.8
1 22	7 52.66	+14 46.2	2.573	3.552	2.0	20.7
2 1	7 44.95	+15 43.0	2.603	3.557	4.6	20.9
2 11	7 38.21	+16 38.5	2.662	3.562	7.5	21.1
2 21	7 32.99	+17 30.4	2.748	3.566	10.2	21.3
237611 2001 QN_{172}			1 17.9	81°.45	5°.1/20.9	18
12 13	8 19.08	+ 3 29.0	2.334	3.082	13.7	20.6
12 23	8 14.55	+ 3 17.0	2.260	3.097	11.2	20.4
1 2	8 8.22	+ 3 20.4	2.209	3.113	8.5	20.3
1 12	8 0.67	+ 3 39.6	2.184	3.128	6.0	20.1
1 22	7 52.66	+ 4 13.1	2.186	3.143	5.1	20.1
2 1	7 45.01	+ 4 58.3	2.219	3.157	6.5	20.2
2 11	7 38.53	+ 5 51.1	2.279	3.172	8.9	20.4
2 21	7 33.77	+ 6 47.3	2.364	3.187	11.5	20.6
8371 Goven			1 17.9	154°.68	0°.0/17.9	18
12 13	8 22.45	+18 49.7	2.052	2.852	13.6	18.5
12 23	8 17.57	+19 16.4	1.970	2.855	10.4	18.3
1 2	8 10.38	+19 50.9	1.912	2.857	6.7	18.1
1 12	8 1.55	+20 29.6	1.882	2.860	2.5	17.8
1 22	7 52.02	+21 8.6	1.880	2.862	1.8	17.8
2 1	7 42.87	+21 44.0	1.909	2.864	5.9	18.1
2 11	7 35.14	+22 13.3	1.966	2.866	9.8	18.3
2 21	7 29.60	+22 35.4	2.046	2.867	13.1	18.5

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
466348 2013 RA_{51}			1 17.9	214°.22	4°.8/15.9	18
	h m	° ′			°	m
12 13	8 27.16	+33 54.3	2.145	2.947	13.1	21.5
12 23	8 21.32	+34 30.0	2.064	2.944	10.2	21.3
1 2	8 12.83	+35 1.4	2.008	2.941	7.3	21.1
1 12	8 2.48	+35 22.6	1.979	2.939	5.1	20.9
1 22	7 51.38	+35 28.9	1.978	2.936	5.4	21.0
2 1	7 40.81	+35 18.1	2.007	2.933	8.0	21.1
2 11	7 31.96	+34 51.2	2.062	2.929	11.0	21.3
2 21	7 25.64	+34 11.6	2.141	2.926	13.8	21.5
207358 2005 JK_{136}			1 17.9	135°.82	0°.8/18.4	18
12 13	8 19.36	+15 33.6	2.403	3.192	12.2	20.3
12 23	8 14.90	+16 6.5	2.317	3.195	9.4	20.1
1 2	8 8.54	+16 48.6	2.256	3.197	6.1	19.9
1 12	8 0.83	+17 37.2	2.223	3.200	2.5	19.6
1 22	7 52.53	+18 28.9	2.221	3.202	1.6	19.6
2 1	7 44.51	+19 19.9	2.248	3.204	5.1	19.8
2 11	7 37.62	+20 7.0	2.305	3.206	8.5	20.0
2 21	7 32.50	+20 48.2	2.387	3.208	11.4	20.2
57104 2001 OH_{72}			1 17.9	22°.77	3°.8/16.9	18
12 13	8 28.29	+28 18.5	1.300	2.130	18.3	17.1
12 23	8 23.33	+28 37.0	1.233	2.132	14.1	16.8
1 2	8 14.63	+28 55.2	1.187	2.135	9.3	16.5
1 12	8 3.26	+29 5.6	1.164	2.139	4.7	16.3
1 22	7 50.87	+29 2.4	1.168	2.143	4.8	16.3
2 1	7 39.41	+28 43.0	1.197	2.147	9.3	16.6
2 11	7 30.58	+28 9.2	1.251	2.152	14.1	16.9
2 21	7 25.36	+27 25.1	1.325	2.157	18.2	17.1
491685 2012 UW_{43}			1 17.9	73°.39	3°.0/16.8	17
12 13	8 28.45	+23 56.9	1.308	2.133	18.5	21.6
12 23	8 23.15	+24 55.9	1.255	2.153	14.0	21.4
1 2	8 14.34	+26 1.1	1.224	2.174	9.0	21.1
1 12	8 3.10	+27 3.7	1.217	2.194	4.1	20.9
1 22	7 51.02	+27 55.4	1.238	2.214	4.2	21.0
2 1	7 39.93	+28 30.6	1.285	2.234	8.9	21.3
2 11	7 31.39	+28 48.3	1.356	2.254	13.4	21.6
2 21	7 26.29	+28 50.7	1.449	2.274	17.3	21.9
412042 2013 CF_{202}			1 17.9	245°.48	1°.1/17.4	17
12 13	8 25.48	+21 27.5	1.771	2.578	15.1	22.3
12 23	8 20.47	+21 57.0	1.678	2.567	11.6	22.1
1 2	8 12.58	+22 33.8	1.607	2.554	7.5	21.8
1 12	8 2.50	+23 13.4	1.563	2.542	2.9	21.5
1 22	7 51.34	+23 50.4	1.548	2.529	2.5	21.4
2 1	7 40.47	+24 20.2	1.562	2.515	7.2	21.7
2 11	7 31.30	+24 40.5	1.603	2.501	11.7	21.9
2 21	7 24.80	+24 50.8	1.666	2.487	15.6	22.1
496084 2009 SB_{134}			1 17.9	85°.91	0°.1/17.8	18
12 13	8 22.46	+18 50.5	1.943	2.746	14.2	21.3
12 23	8 17.61	+19 20.1	1.871	2.757	10.8	21.1
1 2	8 10.41	+19 57.6	1.822	2.768	6.9	20.9
1 12	8 1.56	+20 39.3	1.800	2.778	2.6	20.7
1 22	7 52.06	+21 20.8	1.808	2.789	1.8	20.6
2 1	7 43.04	+21 58.2	1.845	2.800	6.1	20.9
2 11	7 35.56	+22 28.7	1.909	2.810	9.9	21.2
2 21	7 30.34	+22 51.5	1.997	2.821	13.2	21.4
209573 2004 XW_{58}			1 17.9	60°.18	3°.6/16.4	18
12 13	8 25.90	+26 4.1	1.442	2.267	17.1	20.3
12 23	8 21.13	+27 1.6	1.381	2.278	13.0	20.1
1 2	8 13.06	+28 3.1	1.341	2.290	8.5	19.8
1 12	8 2.64	+29 0.6	1.327	2.301	4.3	19.6
1 22	7 51.31	+29 46.0	1.339	2.313	4.7	19.7
2 1	7 40.76	+30 14.6	1.379	2.325	8.8	19.9
2 11	7 32.49	+30 25.5	1.443	2.337	13.1	20.2
2 21	7 27.41	+30 20.9	1.529	2.349	16.8	20.5
234140 2000 DE_{103}			1 17.9	293°.35	5°.2/15.4	18
12 13	8 25.00	+34 22.7	2.123	2.929	13.0	20.3
12 23	8 19.80	+35 9.4	2.042	2.923	10.3	20.1
1 2	8 11.95	+35 52.4	1.984	2.917	7.4	19.9
1 12	8 2.19	+36 25.2	1.954	2.911	5.4	19.8
1 22	7 51.61	+36 42.5	1.952	2.905	5.8	19.8
2 1	7 41.49	+36 41.6	1.978	2.900	8.3	20.0
2 11	7 33.05	+36 23.3	2.030	2.894	11.3	20.1
2 21	7 27.12	+35 50.4	2.105	2.888	14.1	20.3
298725 2004 FC_{102}			1 17.9	221°.27	7°.8/12.3	17
12 13	8 32.56	+51 17.1	3.171	3.912	10.5	21.5
12 23	8 25.24	+52 15.5	3.094	3.903	9.2	21.4
1 2	8 15.26	+53 2.2	3.042	3.893	8.2	21.3
1 12	8 3.41	+53 31.0	3.015	3.882	7.8	21.3
1 22	7 50.77	+53 37.6	3.016	3.871	8.2	21.3
2 1	7 38.65	+53 20.7	3.043	3.860	9.2	21.4
2 11	7 28.24	+52 42.1	3.095	3.848	10.6	21.5
2 21	7 20.36	+51 46.2	3.168	3.836	12.0	21.5

66432 1999 NL_{46} 1 17.9 124°.25 3°.2/19.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 26.79	+11 9.3	2.072	2.842	14.5	19.6
12 23	8 20.54	+10 52.4	2.001	2.862	11.4	19.4
1 2	8 12.09	+10 46.7	1.953	2.881	7.9	19.2
1 12	8 2.16	+10 51.3	1.933	2.899	4.5	19.0
1 22	7 51.72	+11 4.7	1.942	2.916	3.4	19.0
2 1	7 41.82	+11 24.3	1.982	2.933	6.2	19.2
2 11	7 33.44	+11 47.4	2.051	2.948	9.6	19.4
2 21	7 27.22	+12 11.5	2.144	2.963	12.6	19.7

144313 2004 DW_{15} 1 17.9 106°.67 3°.6/20.1 18

12 13	8 22.84	+ 7 4.3	2.002	2.768	15.1	19.4
12 23	8 17.71	+ 7 32.2	1.930	2.786	12.0	19.2
1 2	8 10.38	+ 8 17.2	1.881	2.803	8.5	19.0
1 12	8 1.55	+ 9 17.6	1.858	2.821	5.0	18.8
1 22	7 52.13	+10 29.4	1.865	2.837	3.7	18.8
2 1	7 43.15	+11 47.3	1.901	2.854	6.2	19.0
2 11	7 35.60	+13 5.6	1.967	2.870	9.6	19.2
2 21	7 30.16	+14 20.0	2.058	2.885	12.8	19.4

34434 2000 SE_{39} 1 17.9 58°.98 0°.3/17.8 18

12 13	8 21.80	+18 44.2	1.831	2.638	14.7	18.0
12 23	8 17.33	+19 21.1	1.755	2.644	11.2	17.8
1 2	8 10.35	+20 7.2	1.703	2.650	7.2	17.6
1 12	8 1.59	+20 58.3	1.677	2.656	2.7	17.3
1 22	7 52.08	+21 49.4	1.680	2.662	2.0	17.3
2 1	7 43.02	+22 35.6	1.712	2.668	6.4	17.6
2 11	7 35.54	+23 13.7	1.771	2.674	10.5	17.8
2 21	7 30.45	+23 42.6	1.854	2.680	14.0	18.1

234051 1999 EZ_{9} 1 17.9 212°.51 0°.9/17.6 18

12 13	8 26.89	+21 51.0	1.788	2.592	15.1	21.4
12 23	8 21.41	+22 8.5	1.700	2.588	11.6	21.1
1 2	8 13.09	+22 31.7	1.636	2.583	7.4	20.9
1 12	8 2.68	+22 56.2	1.599	2.577	2.9	20.6
1 22	7 51.31	+23 17.7	1.590	2.571	2.4	20.5
2 1	7 40.38	+23 32.5	1.611	2.564	7.0	20.8
2 11	7 31.21	+23 39.1	1.659	2.557	11.4	21.0
2 21	7 24.71	+23 37.8	1.730	2.550	15.1	21.3

234189 2000 QU_{94} 1 17.9 193°.09 4°.7/15.8 18

12 13	8 30.94	+32 22.2	2.089	2.885	13.5	21.9
12 23	8 24.32	+33 11.2	2.005	2.884	10.6	21.7
1 2	8 14.86	+33 57.8	1.946	2.881	7.4	21.5
1 12	8 3.32	+34 35.2	1.915	2.877	5.0	21.3
1 22	7 50.88	+34 57.4	1.913	2.873	5.4	21.3
2 1	7 38.93	+35 1.4	1.941	2.867	8.2	21.5
2 11	7 28.77	+34 47.8	1.997	2.861	11.4	21.7
2 21	7 21.32	+34 20.0	2.075	2.854	14.4	21.9

109816 2001 RN_{106} 1 17.9 6°.13 1°.9/18.7 18

12 13	8 21.76	+14 22.2	1.747	2.547	15.6	20.1
12 23	8 17.40	+14 32.8	1.665	2.547	12.2	19.9
1 2	8 10.46	+14 55.6	1.606	2.547	8.1	19.6
1 12	8 1.66	+15 28.6	1.573	2.547	3.7	19.4
1 22	7 52.04	+16 8.0	1.567	2.548	2.4	19.3
2 1	7 42.83	+16 49.6	1.590	2.548	6.6	19.5
2 11	7 35.23	+17 29.5	1.640	2.549	10.8	19.8
2 21	7 30.05	+18 4.9	1.713	2.549	14.5	20.0

491783 2012 WS_{32} 1 17.9 357°.09 0°.6/17.7 18

12 13	8 25.10	+21 45.6	1.232	2.064	19.0	21.1
12 23	8 20.99	+21 44.3	1.160	2.062	14.6	20.8
1 2	8 13.24	+21 49.7	1.109	2.060	9.4	20.5
1 12	8 2.81	+21 57.3	1.080	2.059	3.6	20.2
1 22	7 51.25	+22 2.4	1.078	2.059	2.7	20.1
2 1	7 40.44	+22 1.7	1.100	2.059	8.6	20.5
2 11	7 32.08	+21 53.8	1.147	2.060	13.9	20.8
2 21	7 27.23	+21 39.6	1.213	2.062	18.5	21.0

165700 2001 PQ_{44} 1 17.9 45°.82 1°.2/18.4 18

12 13	8 22.18	+17 13.4	1.888	2.690	14.6	19.0
12 23	8 17.26	+17 6.7	1.827	2.710	11.1	18.9
1 2	8 10.08	+17 7.6	1.788	2.731	7.2	18.7
1 12	8 1.42	+17 14.0	1.777	2.753	3.1	18.5
1 22	7 52.28	+17 23.6	1.794	2.775	2.0	18.4
2 1	7 43.76	+17 33.8	1.840	2.797	5.9	18.7
2 11	7 36.84	+17 42.9	1.913	2.819	9.7	19.0
2 21	7 32.15	+17 49.6	2.010	2.841	12.9	19.2

372970 2011 CD_{2} 1 17.9 81°.29 1°.6/18.7 18

12 13	8 20.82	+14 2.0	1.977	2.770	14.3	21.1
12 23	8 16.39	+14 21.5	1.894	2.772	11.1	20.9
1 2	8 9.68	+14 52.8	1.834	2.774	7.4	20.7
1 12	8 1.34	+15 33.5	1.801	2.775	3.4	20.4
1 22	7 52.28	+16 19.8	1.797	2.777	2.2	20.3
2 1	7 43.58	+17 7.8	1.822	2.779	6.0	20.6
2 11	7 36.28	+17 53.6	1.875	2.781	9.8	20.8
2 21	7 31.12	+18 34.4	1.952	2.783	13.2	21.0

159637 2002 CT_{54} 1 17.9 22°.84 1°.2/18.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 23.05	+17 38.4	1.239	2.067	19.1	19.4
12 23	8 19.19	+17 34.0	1.174	2.073	14.8	19.2
1 2	8 11.94	+17 41.0	1.129	2.079	9.6	18.9
1 12	8 2.27	+17 56.4	1.108	2.086	3.9	18.6
1 22	7 51.66	+18 16.1	1.112	2.094	2.5	18.5
2 1	7 41.82	+18 35.6	1.141	2.102	8.1	18.9
2 11	7 34.30	+18 51.8	1.195	2.111	13.2	19.2
2 21	7 30.05	+19 3.1	1.269	2.121	17.6	19.5

290669 2005 UV_{314} 1 17.9 87°.28 4°.1/15.9 18

12 13	8 26.49	+29 5.2	1.919	2.728	14.1	20.5
12 23	8 20.83	+30 10.0	1.861	2.749	10.8	20.3
1 2	8 12.52	+31 14.6	1.827	2.769	7.2	20.1
1 12	8 2.39	+32 12.0	1.821	2.789	4.4	20.0
1 22	7 51.60	+32 56.2	1.844	2.809	4.8	20.1
2 1	7 41.46	+33 23.6	1.895	2.829	7.8	20.3
2 11	7 33.16	+33 34.1	1.973	2.848	11.1	20.5
2 21	7 27.45	+33 30.0	2.075	2.867	13.9	20.8

97420 2000 AN_{169} 1 17.9 74°.22 0°.6/17.5 18

12 13	8 23.24	+18 35.4	1.988	2.787	14.0	19.1
12 23	8 18.08	+19 35.8	1.928	2.812	10.6	18.9
1 2	8 10.64	+20 44.7	1.892	2.837	6.7	18.8
1 12	8 1.66	+21 57.0	1.884	2.862	2.5	18.5
1 22	7 52.11	+23 6.8	1.906	2.887	2.0	18.5
2 1	7 43.09	+24 9.2	1.959	2.911	6.0	18.9
2 11	7 35.62	+25 1.0	2.039	2.936	9.7	19.1
2 21	7 30.37	+25 41.3	2.145	2.960	12.8	19.4

463232 2012 DF_{96} 1 17.9 287°.61 5°.5/16.1 18

12 13	8 29.23	+34 5.9	1.774	2.583	15.1	21.5
12 23	8 23.61	+34 35.1	1.683	2.567	11.9	21.3
1 2	8 14.70	+34 59.4	1.615	2.551	8.5	21.1
1 12	8 3.35	+35 11.5	1.573	2.535	5.8	20.9
1 22	7 50.88	+35 5.3	1.559	2.519	6.2	20.8
2 1	7 38.94	+34 38.2	1.572	2.503	9.3	21.0
2 11	7 29.10	+33 52.1	1.611	2.488	13.0	21.2
2 21	7 22.38	+32 52.0	1.672	2.472	16.4	21.4

1038 Tuckia 1 17.9 87°.56 2°.4/16.2 18

12 13	8 19.02	+29 4.6	3.286	4.083	9.1	17.1
12 23	8 14.18	+29 42.3	3.220	4.101	6.9	16.9
1 2	8 7.85	+30 19.2	3.179	4.119	4.6	16.8
1 12	8 0.55	+30 52.1	3.169	4.137	2.7	16.7
1 22	7 52.88	+31 18.3	3.189	4.155	2.9	16.7
2 1	7 45.52	+31 36.1	3.240	4.173	4.9	16.9
2 11	7 39.13	+31 44.8	3.319	4.191	7.1	17.1
2 21	7 34.17	+31 45.2	3.425	4.208	9.1	17.2

250183 2002 TX_{271} 1 17.9 84°.74 2°.0/18.7 18

12 13	8 25.28	+14 55.1	1.744	2.539	15.9	20.3
12 23	8 19.80	+14 51.6	1.680	2.559	12.2	20.1
1 2	8 11.80	+14 58.6	1.638	2.578	8.1	19.9
1 12	8 2.11	+15 14.0	1.623	2.597	3.8	19.7
1 22	7 51.83	+15 34.8	1.636	2.616	2.5	19.6
2 1	7 42.21	+15 57.9	1.678	2.634	6.5	19.9
2 11	7 34.36	+16 20.3	1.747	2.652	10.5	20.2
2 21	7 28.99	+16 40.2	1.840	2.670	13.9	20.5

111003 2001 VU 1 17.9 133°.21 5°.0/15.0 18

12 13	8 27.84	+32 51.8	2.205	3.004	12.8	20.2
12 23	8 21.77	+34 8.4	2.139	3.018	10.0	20.0
1 2	8 13.13	+35 22.7	2.099	3.031	7.1	19.8
1 12	8 2.65	+36 27.4	2.087	3.043	5.2	19.7
1 22	7 51.42	+37 16.3	2.104	3.055	5.7	19.8
2 1	7 40.68	+37 46.1	2.151	3.067	8.1	20.0
2 11	7 31.61	+37 56.7	2.225	3.077	10.9	20.2
2 21	7 25.01	+37 51.0	2.321	3.087	13.4	20.4

34396 2000 RT_{74} 1 17.9 105°.56 2°.3/16.6 18

12 13	8 21.91	+26 49.7	2.570	3.371	11.2	19.6
12 23	8 16.74	+27 24.1	2.498	3.382	8.5	19.4
1 2	8 9.66	+27 59.2	2.451	3.394	5.5	19.2
1 12	8 1.27	+28 31.0	2.432	3.406	2.8	19.1
1 22	7 52.39	+28 56.3	2.444	3.417	2.9	19.1
2 1	7 43.91	+29 12.5	2.486	3.428	5.7	19.3
2 11	7 36.67	+29 19.0	2.557	3.439	8.5	19.5
2 21	7 31.28	+29 16.5	2.652	3.450	11.1	19.7

124312 2001 QT_{73} 1 17.9 54°.83 0°.7/17.7 17

12 13	8 28.58	+21 9.3	1.207	2.034	19.6	19.3
12 23	8 23.18	+21 22.3	1.161	2.059	14.9	19.1
1 2	8 14.27	+21 42.9	1.135	2.085	9.4	18.9
1 12	8 3.06	+22 5.5	1.132	2.111	3.5	18.6
1 22	7 51.23	+22 24.6	1.156	2.138	2.6	18.6
2 1	7 40.59	+22 36.4	1.207	2.164	8.2	19.1
2 11	7 32.62	+22 39.8	1.281	2.191	13.1	19.4
2 21	7 28.07	+22 35.6	1.377	2.218	17.1	19.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
317511 2002 TX_{67}			1 17.9	92°.16	2°.2/18.4	18
	h m	° ′			°	m
12 13	8 31.26	+17 56.2	1.792	2.581	15.7	20.4
12 23	8 24.21	+17 1.0	1.720	2.596	12.2	20.2
1 2	8 14.53	+16 10.1	1.672	2.611	8.0	20.0
1 12	8 3.11	+15 23.4	1.652	2.626	3.7	19.7
1 22	7 51.16	+14 40.9	1.662	2.641	2.8	19.7
2 1	7 39.99	+14 2.9	1.702	2.655	6.7	20.0
2 11	7 30.75	+13 29.7	1.770	2.670	10.7	20.2
2 21	7 24.16	+13 0.9	1.863	2.684	14.2	20.5
140929 2001 VY_{77}			1 17.9	132°.54	2°.3/16.6	18
12 13	8 21.45	+26 26.3	2.482	3.284	11.5	20.4
12 23	8 16.54	+27 1.5	2.401	3.287	8.7	20.2
1 2	8 9.61	+27 38.1	2.346	3.290	5.7	20.0
1 12	8 1.28	+28 12.0	2.319	3.293	2.8	19.8
1 22	7 52.38	+28 39.5	2.323	3.296	3.0	19.8
2 1	7 43.82	+28 57.9	2.356	3.299	5.9	20.0
2 11	7 36.52	+29 6.4	2.418	3.302	8.9	20.2
2 21	7 31.11	+29 5.6	2.504	3.304	11.6	20.4
272154 2005 NV_{59}			1 17.9	353°.80	0°.9/17.6	18
12 13	8 23.68	+22 30.5	1.509	2.332	16.6	20.3
12 23	8 19.33	+22 33.5	1.432	2.329	12.7	20.1
1 2	8 11.91	+22 41.3	1.377	2.326	8.1	19.8
1 12	8 2.27	+22 50.0	1.346	2.325	3.1	19.5
1 22	7 51.70	+22 55.4	1.342	2.323	2.5	19.4
2 1	7 41.72	+22 54.7	1.366	2.323	7.6	19.8
2 11	7 33.76	+22 46.8	1.415	2.323	12.2	20.0
2 21	7 28.74	+22 32.5	1.486	2.323	16.3	20.3
205698 Troiani			1 17.9	307°.91	2°.4/17.8	18
12 13	8 35.75	+29 33.2	1.379	2.193	18.3	19.5
12 23	8 29.63	+28 48.8	1.268	2.159	14.5	19.2
1 2	8 19.22	+27 54.3	1.179	2.125	9.7	18.8
1 12	8 5.31	+26 43.6	1.114	2.090	4.4	18.4
1 22	7 49.53	+25 13.1	1.077	2.056	3.7	18.3
2 1	7 34.12	+23 24.5	1.068	2.022	9.5	18.5
2 11	7 21.30	+21 25.1	1.085	1.989	15.5	18.7
2 21	7 12.51	+19 23.8	1.124	1.956	20.8	18.9
151563 2002 TM_{135}			1 17.9	75°.54	0°.5/18.1	17
12 13	8 26.63	+15 57.5	1.318	2.133	19.0	20.2
12 23	8 21.63	+16 43.3	1.263	2.154	14.5	20.0
1 2	8 13.36	+17 44.4	1.228	2.175	9.3	19.8
1 12	8 2.81	+18 54.7	1.217	2.195	3.6	19.5
1 22	7 51.45	+20 6.4	1.234	2.216	2.3	19.4
2 1	7 40.94	+21 12.1	1.278	2.236	7.8	19.8
2 11	7 32.76	+22 6.9	1.347	2.256	12.6	20.2
2 21	7 27.75	+22 49.1	1.439	2.276	16.7	20.5
455533 2004 BW_{142}			1 17.9	6°.97	1°.3/17.4	18
12 13	8 22.49	+21 10.9	1.509	2.332	16.6	21.4
12 23	8 18.47	+21 48.9	1.435	2.332	12.7	21.2
1 2	8 11.41	+22 35.8	1.382	2.332	8.1	20.9
1 12	8 2.13	+23 26.0	1.355	2.333	3.1	20.6
1 22	7 51.87	+24 13.1	1.355	2.335	2.8	20.6
2 1	7 42.14	+24 51.8	1.382	2.337	7.7	20.9
2 11	7 34.37	+25 19.0	1.434	2.339	12.3	21.2
2 21	7 29.49	+25 34.4	1.508	2.342	16.3	21.4
359192 2009 DZ_{4}			1 17.9	31°.38	3°.0/19.2	18
12 13	8 21.48	+11 46.2	1.379	2.189	18.5	20.7
12 23	8 17.70	+11 57.3	1.310	2.195	14.5	20.4
1 2	8 10.90	+12 26.6	1.261	2.202	9.9	20.2
1 12	8 1.92	+13 12.0	1.236	2.209	5.0	19.9
1 22	7 52.03	+14 8.6	1.237	2.216	3.4	19.8
2 1	7 42.72	+15 10.2	1.264	2.224	7.6	20.1
2 11	7 35.40	+16 10.6	1.317	2.232	12.3	20.4
2 21	7 30.98	+17 5.2	1.392	2.241	16.5	20.7
298819 2004 RN_{66}			1 17.9	109°.52	2°.1/18.8	18
12 13	8 26.17	+13 53.2	1.674	2.468	16.5	21.2
12 23	8 20.67	+14 3.1	1.606	2.484	12.8	21.0
1 2	8 12.49	+14 25.7	1.561	2.500	8.5	20.7
1 12	8 2.44	+14 58.5	1.541	2.515	4.0	20.5
1 22	7 51.71	+15 37.5	1.550	2.530	2.6	20.4
2 1	7 41.59	+16 18.2	1.588	2.544	6.7	20.7
2 11	7 33.30	+16 56.8	1.653	2.558	10.9	21.0
2 21	7 27.62	+17 30.9	1.741	2.572	14.6	21.3
463864 2014 UP_{23}			1 17.9	315°.83	6°.1/14.6	18
12 13	8 24.70	+32 41.6	1.787	2.603	14.7	20.5
12 23	8 20.16	+34 9.4	1.711	2.599	11.5	20.2
1 2	8 12.55	+35 37.0	1.659	2.595	8.3	20.0
1 12	8 2.60	+36 55.3	1.634	2.591	6.2	19.9
1 22	7 51.53	+37 55.7	1.636	2.587	7.0	20.0
2 1	7 40.88	+38 33.0	1.665	2.584	9.8	20.1
2 11	7 32.13	+38 46.5	1.719	2.580	13.1	20.3
2 21	7 26.31	+38 39.5	1.795	2.577	16.2	20.5

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
95155 2002 AH_{175}			1 17.9	127°.50	0°.4/17.8	18
	h m	° ′			°	m
12 13	8 23.95	+21 10.2	1.964	2.767	14.0	20.0
12 23	8 18.83	+21 16.4	1.882	2.769	10.7	19.8
1 2	8 11.26	+21 27.4	1.825	2.771	6.8	19.5
1 12	8 1.99	+21 40.1	1.794	2.772	2.6	19.3
1 22	7 52.01	+21 51.2	1.792	2.774	1.9	19.2
2 1	7 42.49	+21 58.3	1.820	2.775	6.2	19.5
2 11	7 34.54	+22 0.0	1.875	2.776	10.1	19.7
2 21	7 28.90	+21 56.3	1.955	2.778	13.5	20.0
375627 2008 WK_{122}			1 17.9	99°.51	2°.1/16.9	18
12 13	8 25.30	+26 43.2	2.320	3.119	12.3	21.2
12 23	8 19.40	+27 2.2	2.253	3.137	9.3	21.1
1 2	8 11.38	+27 21.2	2.210	3.154	6.0	20.9
1 12	8 1.97	+27 36.5	2.196	3.171	2.8	20.7
1 22	7 52.09	+27 44.7	2.212	3.188	2.8	20.7
2 1	7 42.76	+27 44.2	2.259	3.204	5.9	21.0
2 11	7 34.90	+27 35.0	2.334	3.220	9.1	21.2
2 21	7 29.15	+27 18.2	2.433	3.236	11.8	21.4
89096 2001 TB_{190}			1 17.9	239°.71	3°.1/16.8	18
12 13	8 28.12	+26 32.4	1.690	2.502	15.6	19.0
12 23	8 22.74	+27 7.7	1.601	2.492	12.0	18.7
1 2	8 14.19	+27 46.0	1.535	2.481	7.9	18.5
1 12	8 3.23	+28 20.8	1.496	2.470	3.9	18.2
1 22	7 51.13	+28 45.9	1.484	2.459	4.1	18.2
2 1	7 39.44	+28 57.1	1.501	2.447	8.2	18.4
2 11	7 29.70	+28 53.5	1.544	2.435	12.6	18.6
2 21	7 22.95	+28 37.4	1.610	2.423	16.4	18.8
274052 2007 SC_{1}			1 17.9	108°.33	2°.9/19.6	18
12 13	8 21.67	+ 9 33.3	2.837	3.593	11.3	21.6
12 23	8 16.15	+ 9 22.6	2.766	3.617	8.9	21.5
1 2	8 9.11	+ 9 21.2	2.721	3.641	6.3	21.4
1 12	8 1.07	+ 9 28.4	2.704	3.665	3.8	21.2
1 22	7 52.70	+ 9 43.1	2.718	3.688	3.0	21.2
2 1	7 44.71	+10 3.4	2.763	3.710	4.9	21.4
2 11	7 37.74	+10 27.1	2.838	3.732	7.3	21.6
2 21	7 32.30	+10 52.0	2.939	3.753	9.7	21.7
275482 2011 EC_{37}			1 17.9	338°.19	1°.3/17.3	18
12 13	8 22.41	+22 53.0	2.031	2.838	13.5	21.1
12 23	8 17.68	+23 20.3	1.949	2.838	10.3	20.9
1 2	8 10.56	+23 52.2	1.890	2.837	6.5	20.6
1 12	8 1.75	+24 24.5	1.859	2.837	2.6	20.4
1 22	7 52.20	+24 53.0	1.857	2.837	2.4	20.4
2 1	7 43.05	+25 14.5	1.885	2.836	6.3	20.6
2 11	7 35.39	+25 27.2	1.939	2.836	10.1	20.9
2 21	7 29.97	+25 31.3	2.018	2.836	13.3	21.1
424800 2008 UJ_{50}			1 17.9	43°.22	0°.6/18.2	18
12 13	8 21.23	+17 50.1	1.939	2.742	14.2	21.1
12 23	8 16.71	+17 59.7	1.864	2.750	10.9	20.9
1 2	8 9.89	+18 17.3	1.813	2.758	7.0	20.7
1 12	8 1.47	+18 40.1	1.788	2.766	2.8	20.5
1 22	7 52.42	+19 4.9	1.792	2.774	1.8	20.4
2 1	7 43.83	+19 28.4	1.825	2.782	5.9	20.7
2 11	7 36.74	+19 48.5	1.885	2.791	9.8	20.9
2 21	7 31.85	+20 3.7	1.970	2.800	13.1	21.2
107083 2001 AP_{24}			1 17.9	180°.92	2°.8/16.6	18
12 13	8 24.49	+23 51.2	1.633	2.451	15.8	19.8
12 23	8 19.93	+24 55.9	1.557	2.451	12.0	19.5
1 2	8 12.35	+26 8.0	1.503	2.451	7.8	19.3
1 12	8 2.52	+27 20.3	1.475	2.451	3.6	19.0
1 22	7 51.65	+28 24.9	1.476	2.451	3.9	19.1
2 1	7 41.23	+29 15.7	1.504	2.451	8.1	19.3
2 11	7 32.71	+29 49.8	1.559	2.451	12.4	19.5
2 21	7 27.04	+30 8.0	1.635	2.451	16.1	19.8
433448 2013 TU_{142}			1 17.9	10°.94	9°.6/13.4	18
12 13	8 25.12	+42 13.5	1.678	2.490	15.7	20.2
12 23	8 20.89	+43 43.7	1.622	2.493	13.0	20.0
1 2	8 13.14	+45 3.2	1.587	2.497	10.7	19.9
1 12	8 2.83	+46 1.6	1.577	2.503	9.6	19.8
1 22	7 51.48	+46 31.1	1.592	2.509	10.3	19.9
2 1	7 40.94	+46 28.8	1.631	2.516	12.3	20.0
2 11	7 32.82	+45 57.7	1.692	2.523	14.8	20.2
2 21	7 28.11	+45 4.3	1.773	2.532	17.2	20.4
464015 2014 WE_{119}			1 17.9	339°.63	4°.0/16.8	18
12 13	8 23.86	+29 40.3	1.507	2.335	16.3	20.5
12 23	8 19.78	+29 56.8	1.425	2.322	12.7	20.2
1 2	8 12.39	+30 11.5	1.364	2.311	8.5	20.0
1 12	8 2.56	+30 18.3	1.328	2.301	4.7	19.7
1 22	7 51.65	+30 11.7	1.318	2.291	4.9	19.7
2 1	7 41.34	+29 49.2	1.335	2.283	8.9	19.9
2 11	7 33.18	+29 11.9	1.377	2.275	13.2	20.1
2 21	7 28.19	+28 23.5	1.439	2.269	17.1	20.4

256304 2006 WD_{176} 1 17.9 257°.53 0°.9/18.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 22.00	+16 1.0	1.864	2.664	14.8	20.7
12 23	8 17.56	+16 24.6	1.776	2.659	11.4	20.5
1 2	8 10.61	+16 59.4	1.711	2.654	7.5	20.2
1 12	8 1.82	+17 42.5	1.672	2.649	3.1	19.9
1 22	7 52.16	+18 29.6	1.663	2.644	1.9	19.8
2 1	7 42.82	+19 16.2	1.682	2.639	6.3	20.1
2 11	7 34.97	+19 58.5	1.728	2.634	10.5	20.4
2 21	7 29.46	+20 34.3	1.798	2.629	14.2	20.6

334263 2001 UD 1 17.9 84°.35 6°.6/22.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.73	− 1 45.4	2.482	3.197	13.8	20.9
12 23	8 14.94	− 2 15.7	2.413	3.219	11.6	20.8
1 2	8 8.46	− 2 29.0	2.367	3.241	9.3	20.6
1 12	8 0.87	− 2 23.9	2.346	3.262	7.4	20.6
1 22	7 52.89	− 2 0.9	2.353	3.284	6.6	20.5
2 1	7 45.28	− 1 22.2	2.388	3.305	7.4	20.6
2 11	7 38.78	− 0 31.6	2.450	3.325	9.2	20.8
2 21	7 33.91	+ 0 26.2	2.538	3.346	11.2	20.9

518444 2004 HU_{79} 1 17.9 262°.90 1°.9/18.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 19.01	+13 27.8	2.533	3.314	11.9	21.7
12 23	8 14.62	+13 30.4	2.435	3.306	9.3	21.5
1 2	8 8.42	+13 41.8	2.362	3.297	6.3	21.3
1 12	8 0.92	+14 0.8	2.316	3.288	3.2	21.1
1 22	7 52.82	+14 25.3	2.301	3.279	2.2	21.0
2 1	7 44.93	+14 53.2	2.315	3.270	5.1	21.2
2 11	7 38.07	+15 21.9	2.358	3.261	8.3	21.4
2 21	7 32.86	+15 49.3	2.427	3.252	11.2	21.6

351227 2004 PL_{36} 1 17.9 104°.45 2°.8/19.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 27.79	+11 44.7	1.792	2.571	16.1	21.1
12 23	8 21.60	+11 51.4	1.730	2.598	12.5	20.9
1 2	8 12.93	+12 11.5	1.691	2.624	8.5	20.7
1 12	8 2.61	+12 42.8	1.679	2.649	4.4	20.5
1 22	7 51.74	+13 21.9	1.695	2.673	3.1	20.5
2 1	7 41.55	+14 4.5	1.742	2.696	6.5	20.8
2 11	7 33.12	+14 46.8	1.816	2.719	10.3	21.0
2 21	7 27.17	+15 25.9	1.915	2.741	13.6	21.3

415357 2013 JM_{46} 1 17.9 206°.09 4°.7/20.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.39	+ 5 40.8	2.246	3.000	14.0	21.5
12 23	8 17.36	+ 5 26.4	2.151	2.995	11.4	21.3
1 2	8 10.26	+ 5 26.4	2.078	2.989	8.5	21.2
1 12	8 1.65	+ 5 41.4	2.031	2.983	5.8	21.0
1 22	7 52.32	+ 6 10.2	2.014	2.976	4.8	20.9
2 1	7 43.24	+ 6 50.5	2.026	2.969	6.7	21.0
2 11	7 35.33	+ 7 38.3	2.066	2.961	9.6	21.2
2 21	7 29.32	+ 8 29.6	2.132	2.953	12.6	21.3

194371 2001 UJ_{196} 1 17.9 171°.80 3°.6/16.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 28.68	+27 34.7	1.603	2.418	16.1	20.6
12 23	8 23.17	+28 13.4	1.528	2.420	12.4	20.4
1 2	8 14.41	+28 53.8	1.475	2.421	8.2	20.1
1 12	8 3.31	+29 28.7	1.448	2.422	4.3	19.9
1 22	7 51.20	+29 51.7	1.449	2.422	4.5	19.9
2 1	7 39.73	+29 59.1	1.478	2.423	8.5	20.2
2 11	7 30.42	+29 50.9	1.533	2.423	12.7	20.4
2 21	7 24.20	+29 29.7	1.609	2.423	16.4	20.6

45522 2000 BP_{47} 1 17.9 190°.48 1°.2/17.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.26	+22 50.5	2.181	2.984	12.8	19.3
12 23	8 17.41	+23 16.8	2.097	2.984	9.7	19.1
1 2	8 10.33	+23 47.3	2.038	2.984	6.2	18.9
1 12	8 1.68	+24 18.1	2.006	2.984	2.5	18.7
1 22	7 52.34	+24 45.4	2.004	2.983	2.3	18.6
2 1	7 43.36	+25 6.2	2.032	2.983	6.0	18.9
2 11	7 35.77	+25 18.9	2.087	2.982	9.5	19.1
2 21	7 30.27	+25 23.4	2.167	2.982	12.7	19.3

396878 2004 TE_{143} 1 17.9 167°.31 0°.5/18.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 27.16	+18 16.0	1.934	2.727	14.6	21.8
12 23	8 21.30	+18 26.1	1.852	2.732	11.2	21.6
1 2	8 12.89	+18 43.7	1.794	2.736	7.2	21.4
1 12	8 2.67	+19 5.9	1.763	2.740	2.9	21.1
1 22	7 51.70	+19 28.9	1.761	2.743	1.8	21.0
2 1	7 41.19	+19 49.8	1.790	2.745	6.2	21.3
2 11	7 32.30	+20 6.4	1.846	2.746	10.3	21.6
2 21	7 25.82	+20 17.8	1.927	2.747	13.8	21.8

62530 2000 SU_{253} 1 17.9 207°.76 0°.4/18.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.12	+17 28.9	2.029	2.827	13.8	20.4
12 23	8 17.44	+17 54.0	1.942	2.825	10.6	20.2
1 2	8 10.44	+18 28.2	1.880	2.823	6.9	19.9
1 12	8 1.76	+19 8.2	1.844	2.821	2.7	19.7
1 22	7 52.31	+19 50.2	1.838	2.819	1.7	19.6
2 1	7 43.20	+20 30.2	1.861	2.817	6.0	19.9
2 11	7 35.48	+21 5.1	1.912	2.815	9.9	20.1
2 21	7 29.93	+21 33.3	1.988	2.812	13.3	20.3

242793 2006 AX_{57} 1 17.9 268°.22 1°.2/18.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 25.42	+16 52.2	1.701	2.502	15.9	21.3
12 23	8 20.64	+16 55.1	1.598	2.481	12.5	21.0
1 2	8 12.90	+17 8.1	1.516	2.459	8.2	20.7
1 12	8 2.83	+17 28.9	1.460	2.437	3.5	20.4
1 22	7 51.51	+17 54.0	1.433	2.414	2.3	20.3
2 1	7 40.34	+18 19.6	1.434	2.391	7.2	20.5
2 11	7 30.78	+18 42.6	1.461	2.367	12.1	20.7
2 21	7 23.93	+19 1.1	1.512	2.343	16.3	20.9

85174 1990 QN_{8} 1 17.9 145°.83 1°.0/17.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 28.80	+21 55.6	1.937	2.734	14.4	21.2
12 23	8 22.52	+22 20.9	1.863	2.746	11.0	21.0
1 2	8 13.64	+22 51.2	1.812	2.757	7.0	20.8
1 12	8 2.96	+23 22.0	1.790	2.767	2.7	20.6
1 22	7 51.57	+23 48.8	1.797	2.777	2.3	20.5
2 1	7 40.75	+24 8.3	1.834	2.786	6.5	20.8
2 11	7 31.65	+24 19.4	1.900	2.794	10.4	21.1
2 21	7 25.06	+24 22.2	1.989	2.801	13.7	21.3

360814 2005 JD_{77} 1 17.9 300°.67 1°.1/17.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.70	+21 43.4	1.539	2.358	16.5	21.2
12 23	8 19.56	+22 5.6	1.450	2.345	12.7	20.9
1 2	8 12.28	+22 35.4	1.382	2.332	8.2	20.6
1 12	8 2.60	+23 8.1	1.340	2.319	3.2	20.3
1 22	7 51.74	+23 38.3	1.325	2.306	2.7	20.2
2 1	7 41.23	+24 1.2	1.337	2.293	7.8	20.5
2 11	7 32.62	+24 14.3	1.375	2.281	12.7	20.7
2 21	7 26.97	+24 17.7	1.434	2.269	16.9	21.0

457656 2009 CJ_{41} 1 17.9 328°.29 0°.2/17.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.85	+20 24.9	1.342	2.170	18.0	21.5
12 23	8 19.21	+20 29.8	1.259	2.159	13.9	21.2
1 2	8 12.19	+20 43.0	1.198	2.148	9.0	20.9
1 12	8 2.59	+21 0.8	1.160	2.138	3.4	20.5
1 22	7 51.77	+21 18.5	1.147	2.129	2.4	20.4
2 1	7 41.42	+21 31.8	1.161	2.120	8.2	20.7
2 11	7 33.22	+21 38.4	1.199	2.113	13.4	21.0
2 21	7 28.24	+21 37.7	1.258	2.105	18.0	21.2

109787 2001 RO_{89} 1 17.9 139°.84 0°.4/17.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.31	+20 4.0	2.026	2.826	13.8	21.0
12 23	8 19.05	+20 28.1	1.948	2.833	10.5	20.8
1 2	8 11.43	+20 58.7	1.894	2.839	6.7	20.6
1 12	8 2.14	+21 32.0	1.868	2.846	2.5	20.3
1 22	7 52.17	+22 4.1	1.870	2.852	1.9	20.3
2 1	7 42.65	+22 31.6	1.903	2.857	6.0	20.5
2 11	7 34.63	+22 52.4	1.964	2.863	9.8	20.8
2 21	7 28.86	+23 5.8	2.049	2.868	13.1	21.0

19261 1995 MB 1 17.9 193°.73 4°.6/19.1 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 30.22	+ 9 56.7	2.192	2.947	14.3	17.6
12 23	8 23.29	+ 8 53.0	2.096	2.944	11.5	17.4
1 2	8 14.04	+ 7 57.2	2.025	2.942	8.4	17.2
1 12	8 3.13	+ 7 11.0	1.982	2.938	5.5	17.0
1 22	7 51.50	+ 6 35.4	1.970	2.934	4.8	16.9
2 1	7 40.23	+ 6 10.7	1.989	2.929	7.1	17.0
2 11	7 30.38	+ 5 55.9	2.038	2.923	10.3	17.2
2 21	7 22.69	+ 5 49.1	2.111	2.916	13.3	17.4

383678 2007 TA_{234} 1 17.9 273°.63 7°.6/21.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.79	− 2 56.1	2.441	3.154	14.1	20.9
12 23	8 14.51	− 3 46.6	2.347	3.147	12.1	20.8
1 2	8 8.40	− 4 20.6	2.275	3.139	10.0	20.6
1 12	8 0.98	− 4 35.5	2.227	3.132	8.3	20.5
1 22	7 52.95	− 4 30.1	2.205	3.125	7.6	20.4
2 1	7 45.12	− 4 5.3	2.211	3.118	8.4	20.5
2 11	7 38.31	− 3 24.4	2.243	3.111	10.2	20.6
2 21	7 33.14	− 2 31.8	2.300	3.104	12.4	20.7

228227 1998 HF_{25} 1 17.9 231°.17 0°.3/18.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.54	+18 9.0	2.443	3.231	12.0	21.1
12 23	8 17.49	+18 29.2	2.342	3.220	9.3	20.9
1 2	8 10.38	+18 56.4	2.265	3.207	6.0	20.7
1 12	8 1.77	+19 28.0	2.217	3.194	2.4	20.4
1 22	7 52.43	+20 0.9	2.199	3.181	1.5	20.3
2 1	7 43.27	+20 32.0	2.212	3.167	5.3	20.6
2 11	7 35.24	+20 59.0	2.254	3.152	8.8	20.8
2 21	7 29.05	+21 20.7	2.322	3.137	11.9	20.9

226255 2002 YE_{24} 1 17.9 72°.25 2°.0/17.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 27.13	+21 31.2	1.323	2.146	18.4	19.7
12 23	8 22.22	+22 28.5	1.266	2.164	14.0	19.5
1 2	8 13.89	+23 35.2	1.231	2.181	8.9	19.2
1 12	8 3.16	+24 43.4	1.220	2.198	3.6	19.0
1 22	7 51.54	+25 44.6	1.237	2.216	3.4	19.0
2 1	7 40.78	+26 32.4	1.280	2.233	8.5	19.4
2 11	7 32.42	+27 4.1	1.348	2.250	13.2	19.7
2 21	7 27.38	+27 20.8	1.437	2.268	17.1	20.0

159618 2002 AM_{109} 1 17.9 158°.27 0°.2/18.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 25.47	+17 15.5	1.837	2.634	15.1	20.2
12 23	8 20.20	+17 54.5	1.758	2.640	11.6	19.9
1 2	8 12.32	+18 44.4	1.701	2.645	7.4	19.7
1 12	8 2.54	+19 40.7	1.672	2.650	2.9	19.4
1 22	7 51.93	+20 38.3	1.672	2.654	1.9	19.4
2 1	7 41.73	+21 31.9	1.702	2.657	6.5	19.7
2 11	7 33.16	+22 17.9	1.760	2.660	10.7	19.9
2 21	7 27.06	+22 54.4	1.841	2.663	14.3	20.2

149328 2002 VQ_{39} 1 17.9 116°.07 1°.1/18.4 18

12 13	8 26.94	+15 15.7	1.557	2.358	17.2	20.4
12 23	8 21.58	+15 46.8	1.489	2.372	13.3	20.2
1 2	8 13.29	+16 31.5	1.442	2.385	8.6	20.0
1 12	8 2.91	+17 25.6	1.422	2.399	3.6	19.7
1 22	7 51.71	+18 23.5	1.430	2.411	2.2	19.6
2 1	7 41.13	+19 19.1	1.466	2.424	7.1	20.0
2 11	7 32.53	+20 8.2	1.529	2.435	11.6	20.3
2 21	7 26.75	+20 48.5	1.616	2.447	15.5	20.5

474583 2004 GC_{18} 1 17.9 253°.76 4°.2/20.9 16

12 13	8 18.52	+ 2 56.2	3.141	3.869	10.9	22.4
12 23	8 13.99	+ 2 57.0	3.022	3.847	9.0	22.2
1 2	8 7.96	+ 3 10.3	2.927	3.823	6.9	22.1
1 12	8 0.82	+ 3 36.6	2.859	3.800	5.0	21.9
1 22	7 53.10	+ 4 15.1	2.821	3.775	4.2	21.8
2 1	7 45.44	+ 5 3.8	2.814	3.751	5.4	21.9
2 11	7 38.50	+ 5 59.7	2.837	3.725	7.6	22.0
2 21	7 32.83	+ 6 59.6	2.887	3.699	9.9	22.1

212837 2007 UQ_{84} 1 17.9 329°.40 1°.5/17.4 18

12 13	8 22.27	+22 5.0	1.395	2.224	17.3	20.8
12 23	8 18.73	+22 32.0	1.313	2.213	13.4	20.5
1 2	8 11.88	+23 7.2	1.252	2.203	8.6	20.2
1 12	8 2.51	+23 45.4	1.215	2.193	3.4	19.9
1 22	7 51.92	+24 20.2	1.204	2.184	3.0	19.8
2 1	7 41.79	+24 46.4	1.220	2.176	8.3	20.1
2 11	7 33.72	+25 1.2	1.259	2.169	13.3	20.4
2 21	7 28.82	+25 4.7	1.320	2.162	17.7	20.6

344828 2004 EZ_{78} 1 17.9 278°.28 7°.2/14.1 18

12 13	8 28.12	+42 17.5	2.401	3.187	12.3	21.0
12 23	8 22.30	+43 12.4	2.315	3.172	10.2	20.8
1 2	8 13.71	+43 59.0	2.253	3.158	8.3	20.6
1 12	8 3.09	+44 30.1	2.218	3.143	7.2	20.5
1 22	7 51.56	+44 40.4	2.210	3.129	7.7	20.5
2 1	7 40.48	+44 27.5	2.230	3.114	9.5	20.6
2 11	7 31.13	+43 52.9	2.275	3.099	11.7	20.8
2 21	7 24.39	+43 0.8	2.342	3.085	14.0	20.9

122238 2000 OB_{14} 1 17.9 187°.05 0°.4/17.8 18

12 13	8 26.20	+21 47.2	2.318	3.109	12.5	20.5
12 23	8 20.23	+21 46.8	2.229	3.109	9.6	20.3
1 2	8 12.07	+21 49.3	2.165	3.108	6.1	20.1
1 12	8 2.39	+21 52.2	2.129	3.107	2.3	19.9
1 22	7 52.07	+21 53.0	2.124	3.105	1.7	19.8
2 1	7 42.15	+21 49.9	2.149	3.102	5.5	20.1
2 11	7 33.59	+21 42.3	2.204	3.099	9.1	20.3
2 21	7 27.10	+21 30.4	2.284	3.096	12.2	20.5

485442 2011 QF_{69} 1 17.9 91°.77 3°.6/16.8 18

12 13	8 30.69	+28 12.8	1.569	2.382	16.5	20.7
12 23	8 24.51	+28 44.8	1.509	2.399	12.6	20.5
1 2	8 15.13	+29 16.4	1.472	2.416	8.3	20.3
1 12	8 3.58	+29 40.8	1.460	2.433	4.4	20.1
1 22	7 51.32	+29 52.4	1.477	2.450	4.5	20.2
2 1	7 39.98	+29 48.6	1.522	2.466	8.3	20.4
2 11	7 30.96	+29 30.6	1.592	2.482	12.3	20.7
2 21	7 25.07	+29 1.7	1.685	2.498	15.8	21.0

280898 2005 XG_{1} 1 17.9 116°.86 0°.5/18.1 17

12 13	8 30.62	+18 59.4	1.748	2.542	15.9	21.2
12 23	8 23.95	+19 1.9	1.682	2.563	12.1	21.0
1 2	8 14.55	+19 11.2	1.640	2.583	7.8	20.8
1 12	8 3.33	+19 23.9	1.625	2.603	3.0	20.5
1 22	7 51.50	+19 36.6	1.640	2.621	1.9	20.5
2 1	7 40.43	+19 46.7	1.684	2.639	6.6	20.8
2 11	7 31.31	+19 52.6	1.756	2.656	10.7	21.1
2 21	7 24.88	+19 54.1	1.852	2.672	14.2	21.4

453968 2012 BF_{87} 1 17.9 347°.55 11°.1/21.7 18

12 13	8 15.64	+ 0 3.1	1.228	2.017	21.6	20.1
12 23	8 13.70	− 1 14.6	1.151	2.005	18.5	19.9
1 2	8 8.68	− 2 6.8	1.091	1.994	15.2	19.6
1 12	8 1.31	− 2 26.8	1.051	1.985	12.3	19.4
1 22	7 52.77	− 2 11.3	1.032	1.977	11.1	19.3
2 1	7 44.60	− 1 21.9	1.036	1.971	12.4	19.4
2 11	7 38.34	− 0 6.2	1.061	1.967	15.6	19.5
2 21	7 35.04	+ 1 25.3	1.105	1.964	19.1	19.8

143134 2002 XS_{37} 1 17.9 117°.32 12°.3/24.6 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 24.56	−14 56.1	2.191	2.823	17.5	20.9
12 23	8 18.99	−16 31.2	2.127	2.840	15.9	20.8
1 2	8 11.28	−17 41.6	2.080	2.856	14.2	20.7
1 12	8 2.10	−18 22.0	2.055	2.871	13.0	20.6
1 22	7 52.30	−18 29.7	2.052	2.886	12.3	20.6
2 1	7 42.90	−18 5.4	2.073	2.901	12.5	20.6
2 11	7 34.84	−17 13.6	2.118	2.915	13.4	20.7
2 21	7 28.81	−16 1.3	2.183	2.928	14.8	20.9

86549 2000 EG 1 17.9 247°.80 0°.9/17.7 18

12 13	8 27.38	+21 42.2	1.648	2.457	16.0	20.0
12 23	8 22.21	+21 58.5	1.556	2.445	12.4	19.7
1 2	8 13.94	+22 21.3	1.485	2.432	8.0	19.5
1 12	8 3.28	+22 46.1	1.441	2.419	3.1	19.1
1 22	7 51.44	+23 8.1	1.424	2.405	2.5	19.0
2 1	7 39.94	+23 23.3	1.436	2.391	7.5	19.3
2 11	7 30.30	+23 29.7	1.475	2.376	12.3	19.6
2 21	7 23.56	+23 27.6	1.536	2.361	16.4	19.8

18223 6700 $P–L$ 1 17.9 46°.92 2°.0/17.2 18

12 13	8 24.15	+24 11.7	1.713	2.528	15.2	19.1
12 23	8 19.37	+24 39.4	1.643	2.536	11.6	18.9
1 2	8 11.83	+25 11.0	1.595	2.544	7.4	18.7
1 12	8 2.36	+25 41.3	1.574	2.552	3.2	18.4
1 22	7 52.14	+26 5.4	1.582	2.560	3.0	18.4
2 1	7 42.51	+26 19.9	1.617	2.568	7.2	18.7
2 11	7 34.73	+26 23.8	1.678	2.577	11.2	19.0
2 21	7 29.60	+26 17.8	1.763	2.586	14.7	19.2

324361 2006 QV_{114} 1 17.9 65°.62 9°.3/22.7 18

12 13	8 21.51	− 3 6.0	1.657	2.395	18.8	20.1
12 23	8 17.18	− 3 49.6	1.590	2.408	16.1	19.9
1 2	8 10.36	− 4 7.9	1.542	2.421	13.1	19.7
1 12	8 1.79	− 3 57.6	1.516	2.434	10.5	19.6
1 22	7 52.53	− 3 18.7	1.515	2.448	9.3	19.6
2 1	7 43.77	− 2 15.0	1.539	2.461	10.2	19.6
2 11	7 36.65	− 0 53.6	1.589	2.475	12.6	19.8
2 21	7 31.93	+ 0 37.3	1.661	2.489	15.3	20.0

157330 2004 TS_{16} 1 17.9 126°.00 1°.9/17.1 18

12 13	8 24.43	+24 37.1	2.135	2.938	13.1	21.5
12 23	8 19.09	+25 7.0	2.059	2.946	9.9	21.3
1 2	8 11.44	+25 39.6	2.008	2.953	6.4	21.1
1 12	8 2.18	+26 10.6	1.984	2.961	2.8	20.8
1 22	7 52.27	+26 35.8	1.991	2.968	2.7	20.8
2 1	7 42.83	+26 52.3	2.027	2.975	6.2	21.1
2 11	7 34.89	+26 59.1	2.091	2.982	9.7	21.3
2 21	7 29.16	+26 57.0	2.179	2.988	12.8	21.5

179180 2001 TK_{126} 1 17.9 216°.84 1°.3/17.4 18

12 13	8 24.73	+22 53.6	2.017	2.821	13.7	21.1
12 23	8 19.55	+23 18.2	1.930	2.816	10.5	20.8
1 2	8 11.88	+23 47.4	1.866	2.812	6.7	20.6
1 12	8 2.40	+24 16.9	1.829	2.807	2.7	20.3
1 22	7 52.10	+24 42.6	1.822	2.802	2.4	20.3
2 1	7 42.16	+25 1.0	1.845	2.796	6.4	20.6
2 11	7 33.74	+25 10.7	1.895	2.791	10.3	20.8
2 21	7 27.66	+25 11.9	1.969	2.785	13.7	21.0

199226 2006 AL_{48} 1 17.9 94°.60 2°.8/16.9 18

12 13	8 28.63	+29 18.9	2.126	2.925	13.2	19.9
12 23	8 22.16	+29 26.9	2.057	2.940	10.1	19.8
1 2	8 13.28	+29 32.5	2.014	2.955	6.7	19.6
1 12	8 2.83	+29 31.4	1.998	2.970	3.5	19.4
1 22	7 51.89	+29 20.6	2.013	2.985	3.5	19.4
2 1	7 41.64	+28 59.0	2.057	3.000	6.6	19.7
2 11	7 33.13	+28 27.9	2.129	3.014	9.9	19.9
2 21	7 27.01	+27 49.5	2.226	3.029	12.8	20.1

162768 2000 WC_{138} 1 17.9 152°.11 0°.8/17.6 18

12 13	8 27.12	+20 52.5	1.987	2.784	14.1	20.9
12 23	8 21.25	+21 22.2	1.910	2.793	10.8	20.7
1 2	8 12.89	+21 58.1	1.856	2.801	6.9	20.5
1 12	8 2.76	+22 35.8	1.831	2.809	2.6	20.2
1 22	7 51.90	+23 10.8	1.835	2.816	2.1	20.2
2 1	7 41.52	+23 39.5	1.870	2.822	6.3	20.5
2 11	7 32.75	+23 59.9	1.932	2.828	10.2	20.7
2 21	7 26.37	+24 11.9	2.019	2.833	13.5	21.0

166962 2003 NB_{2} 1 17.9 165°.93 2°.8/19.4 18

12 13	8 25.03	+10 45.4	2.213	2.981	13.8	22.1
12 23	8 19.37	+10 52.8	2.127	2.987	10.9	21.9
1 2	8 11.56	+11 12.3	2.065	2.993	7.5	21.7
1 12	8 2.23	+11 42.6	2.031	2.998	4.1	21.5
1 22	7 52.25	+12 21.0	2.026	3.002	3.0	21.4
2 1	7 42.61	+13 4.3	2.053	3.005	5.8	21.6
2 11	7 34.27	+13 48.8	2.108	3.008	9.2	21.8
2 21	7 27.94	+14 31.7	2.189	3.009	12.4	22.0

121533 1999 UW_{40} 1 17.9 354°.00 9°.1/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 28.06	+42 4.9	1.763	2.568	15.3	19.1
12 23	8 23.09	+43 21.5	1.697	2.565	12.7	18.9
1 2	8 14.60	+44 28.2	1.653	2.563	10.4	18.8
1 12	8 3.54	+45 14.8	1.633	2.561	9.1	18.7
1 22	7 51.40	+45 33.8	1.640	2.560	9.7	18.8
2 1	7 40.00	+45 22.4	1.671	2.560	11.8	18.9
2 11	7 30.99	+44 43.5	1.725	2.559	14.4	19.0
2 21	7 25.35	+43 43.4	1.799	2.560	16.9	19.2

379019 2008 VH_{21} 1 17.9 324°.15 1°.7/18.8 18

12 13	8 20.26	+14 27.1	2.095	2.888	13.6	21.5
12 23	8 15.96	+14 33.5	2.008	2.885	10.6	21.3
1 2	8 9.50	+14 49.9	1.943	2.882	7.1	21.1
1 12	8 1.49	+15 14.6	1.906	2.879	3.3	20.8
1 22	7 52.80	+15 44.9	1.897	2.877	2.2	20.7
2 1	7 44.41	+16 17.6	1.918	2.874	5.7	21.0
2 11	7 37.31	+16 49.8	1.966	2.872	9.4	21.2
2 21	7 32.22	+17 19.0	2.039	2.870	12.7	21.4

296936 2010 DV_{11} 1 17.9 229°.19 4°.1/19.6 18

12 13	8 23.93	+ 9 36.4	1.647	2.433	17.0	20.9
12 23	8 19.34	+ 9 28.8	1.559	2.428	13.6	20.7
1 2	8 11.97	+ 9 37.5	1.493	2.423	9.6	20.4
1 12	8 2.52	+10 2.4	1.451	2.417	5.7	20.2
1 22	7 52.08	+10 41.1	1.437	2.411	4.3	20.1
2 1	7 41.96	+11 29.4	1.450	2.404	7.5	20.3
2 11	7 33.50	+12 22.2	1.490	2.398	11.7	20.5
2 21	7 27.63	+13 14.8	1.553	2.391	15.7	20.7

333618 2007 TJ_{325} 1 17.9 120°.62 4°.7/21.0 18

12 13	8 20.44	+ 2 27.9	2.954	3.679	11.6	22.6
12 23	8 15.28	+ 2 5.4	2.878	3.699	9.5	22.5
1 2	8 8.66	+ 1 55.4	2.826	3.717	7.4	22.3
1 12	8 1.07	+ 1 58.2	2.802	3.736	5.5	22.2
1 22	7 53.13	+ 2 13.4	2.807	3.753	4.7	22.2
2 1	7 45.49	+ 2 39.2	2.842	3.771	5.7	22.3
2 11	7 38.78	+ 3 13.0	2.906	3.787	7.7	22.5
2 21	7 33.49	+ 3 51.8	2.996	3.803	9.7	22.6

150338 1999 XL_{15} 1 17.9 92°.17 2°.8/18.9 18

12 13	8 29.15	+13 42.4	1.445	2.243	18.4	19.5
12 23	8 23.23	+13 32.2	1.386	2.265	14.3	19.3
1 2	8 14.29	+13 35.5	1.348	2.287	9.6	19.1
1 12	8 3.31	+13 50.4	1.335	2.308	4.7	18.8
1 22	7 51.65	+14 13.4	1.350	2.329	3.2	18.8
2 1	7 40.85	+14 40.5	1.392	2.349	7.5	19.1
2 11	7 32.23	+15 8.1	1.461	2.369	11.9	19.4
2 21	7 26.60	+15 33.3	1.552	2.388	15.8	19.7

245925 2006 RT_{15} 1 17.9 173°.45 3°.0/16.6 18

12 13	8 25.81	+31 21.0	2.763	3.554	10.7	20.6
12 23	8 19.69	+31 34.2	2.679	3.556	8.3	20.5
1 2	8 11.62	+31 44.3	2.621	3.558	5.6	20.3
1 12	8 2.23	+31 47.7	2.592	3.559	3.4	20.2
1 22	7 52.35	+31 41.7	2.593	3.560	3.5	20.2
2 1	7 42.89	+31 25.2	2.626	3.560	5.8	20.3
2 11	7 34.71	+30 58.7	2.687	3.561	8.5	20.5
2 21	7 28.43	+30 24.1	2.774	3.561	10.9	20.7

66384 1999 JO_{131} 1 17.9 258°.69 1°.0/18.4 18

12 13	8 25.03	+17 15.4	1.675	2.479	16.0	20.1
12 23	8 20.28	+17 18.8	1.583	2.468	12.5	19.8
1 2	8 12.64	+17 31.8	1.512	2.456	8.2	19.5
1 12	8 2.81	+17 52.1	1.467	2.444	3.4	19.2
1 22	7 51.89	+18 15.9	1.450	2.432	2.2	19.1
2 1	7 41.28	+18 39.6	1.462	2.419	7.1	19.4
2 11	7 32.38	+19 0.2	1.500	2.407	11.7	19.6
2 21	7 26.18	+19 16.0	1.561	2.394	15.8	19.8

401237 2012 BM_{6} 1 17.9 93°.40 0°.5/17.8 18

12 13	8 25.98	+20 57.4	1.727	2.535	15.5	21.3
12 23	8 20.65	+21 12.9	1.658	2.546	11.8	21.0
1 2	8 12.60	+21 34.4	1.611	2.557	7.5	20.8
1 12	8 2.68	+21 58.0	1.590	2.569	2.8	20.6
1 22	7 52.05	+22 19.4	1.599	2.580	2.1	20.5
2 1	7 42.03	+22 35.3	1.635	2.591	6.7	20.8
2 11	7 33.86	+22 44.2	1.699	2.601	10.9	21.1
2 21	7 28.30	+22 46.1	1.786	2.612	14.5	21.4

399939 2005 YR_{270} 1 17.9 217°.05 0°.4/17.9 18

12 13	8 36.62	+24 48.1	1.789	2.580	15.7	21.2
12 23	8 28.81	+24 5.1	1.696	2.574	12.1	20.9
1 2	8 17.88	+23 19.3	1.626	2.568	7.9	20.7
1 12	8 4.73	+22 28.0	1.584	2.561	3.0	20.3
1 22	7 50.68	+21 30.3	1.573	2.554	2.1	20.3
2 1	7 37.31	+20 27.1	1.593	2.546	7.1	20.6
2 11	7 26.05	+19 21.3	1.643	2.538	11.6	20.8
2 21	7 17.81	+18 16.2	1.717	2.530	15.5	21.0

258115 2001 QT_{252} 1 17.9 83°.90 5°.3/16.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 31.60	+34 10.8	1.819	2.623	15.0	20.6
12 23	8 24.91	+34 48.9	1.763	2.644	11.7	20.5
1 2	8 15.25	+35 21.1	1.731	2.665	8.2	20.3
1 12	8 3.65	+35 40.3	1.726	2.686	5.7	20.2
1 22	7 51.48	+35 41.6	1.748	2.706	5.9	20.2
2 1	7 40.25	+35 23.8	1.799	2.727	8.6	20.4
2 11	7 31.23	+34 49.2	1.877	2.747	11.8	20.7
2 21	7 25.16	+34 2.5	1.977	2.766	14.6	20.9

218713 2005 UY_{51} 1 17.9 94°.14 0°.2/18.1 18

12 13	8 24.62	+19 44.2	1.897	2.699	14.5	20.5
12 23	8 19.42	+19 45.1	1.821	2.706	11.1	20.3
1 2	8 11.75	+19 51.7	1.767	2.712	7.1	20.0
1 12	8 2.36	+20 1.5	1.741	2.718	2.8	19.8
1 22	7 52.30	+20 11.3	1.743	2.725	1.8	19.7
2 1	7 42.74	+20 18.7	1.775	2.731	6.2	20.0
2 11	7 34.81	+20 22.3	1.834	2.737	10.2	20.3
2 21	7 29.25	+20 21.6	1.916	2.743	13.6	20.5

413027 2000 UF_{59} 1 17.9 73°.25 3°.2/19.4 14 C

12 13	8 26.05	+11 4.3	1.923	2.699	15.3	21.2
12 23	8 20.07	+10 51.7	1.870	2.734	11.9	21.1
1 2	8 11.89	+10 51.4	1.839	2.768	8.2	20.9
1 12	8 2.32	+11 2.2	1.835	2.802	4.6	20.8
1 22	7 52.38	+11 21.9	1.861	2.835	3.4	20.7
2 1	7 43.12	+11 47.5	1.916	2.868	6.2	21.0
2 11	7 35.50	+12 15.8	1.999	2.900	9.6	21.2
2 21	7 30.11	+12 44.0	2.106	2.932	12.6	21.5

89203 2001 UM_{93} 1 17.9 181°.73 0°.5/17.7 18

12 13	8 23.03	+18 50.6	2.027	2.826	13.8	19.7
12 23	8 18.23	+19 36.4	1.942	2.827	10.5	19.5
1 2	8 11.06	+20 31.2	1.882	2.827	6.7	19.2
1 12	8 2.14	+21 31.0	1.849	2.827	2.5	19.0
1 22	7 52.42	+22 30.4	1.846	2.827	1.9	18.9
2 1	7 43.02	+23 24.6	1.872	2.826	6.1	19.2
2 11	7 35.03	+24 10.2	1.927	2.825	10.0	19.4
2 21	7 29.26	+24 45.9	2.006	2.824	13.4	19.6

118235 1997 ES_{7} 1 17.9 291°.26 3°.1/19.1 18

12 13	8 22.92	+12 27.4	1.393	2.202	18.5	20.0
12 23	8 19.19	+12 27.5	1.303	2.188	14.6	19.7
1 2	8 12.24	+12 44.5	1.234	2.174	10.1	19.4
1 12	8 2.76	+13 17.7	1.188	2.160	5.2	19.1
1 22	7 51.95	+14 3.3	1.167	2.147	3.6	18.9
2 1	7 41.41	+14 56.0	1.174	2.133	8.1	19.2
2 11	7 32.77	+15 49.9	1.205	2.120	13.3	19.4
2 21	7 27.18	+16 40.2	1.257	2.107	17.9	19.6

273052 2006 DK_{161} 1 17.9 51°.90 0°.9/18.4 18

12 13	8 21.67	+16 49.6	1.951	2.751	14.2	21.2
12 23	8 17.14	+17 1.2	1.873	2.756	11.0	20.9
1 2	8 10.30	+17 21.6	1.818	2.761	7.1	20.7
1 12	8 1.83	+17 48.4	1.789	2.766	3.0	20.5
1 22	7 52.68	+18 18.2	1.790	2.771	1.8	20.4
2 1	7 43.95	+18 47.5	1.819	2.776	5.9	20.7
2 11	7 36.68	+19 13.7	1.876	2.782	9.8	20.9
2 21	7 31.61	+19 35.1	1.957	2.787	13.2	21.2

134029 2004 VJ_{85} 1 17.9 243°.56 1°.8/17.2 18

12 13	8 25.91	+22 38.7	1.775	2.584	15.1	20.6
12 23	8 20.96	+23 19.6	1.683	2.572	11.6	20.4
1 2	8 13.10	+24 7.6	1.614	2.561	7.5	20.1
1 12	8 3.02	+24 57.4	1.571	2.548	3.1	19.8
1 22	7 51.82	+25 42.9	1.557	2.536	3.0	19.8
2 1	7 40.89	+26 18.9	1.572	2.523	7.4	20.0
2 11	7 31.66	+26 43.0	1.614	2.510	11.8	20.3
2 21	7 25.12	+26 55.1	1.678	2.496	15.6	20.5

22739 Sikhote–Alin 1 17.9 308°.13 0°.7/18.3 18 R

12 13	8 20.90	+17 21.8	2.032	2.833	13.7	18.9
12 23	8 16.58	+17 36.2	1.943	2.827	10.6	18.7
1 2	8 9.98	+17 59.0	1.878	2.822	6.9	18.4
1 12	8 1.73	+18 27.9	1.839	2.816	2.8	18.2
1 22	7 52.72	+18 59.4	1.829	2.811	1.7	18.1
2 1	7 44.02	+19 30.1	1.849	2.806	5.9	18.3
2 11	7 36.67	+19 57.2	1.896	2.801	9.8	18.6
2 21	7 31.45	+20 19.2	1.967	2.796	13.2	18.8

369096 2008 GO_{123} 1 17.9 176°.85 4°.8/20.7 18

12 13	8 21.86	+ 3 29.9	2.668	3.401	12.5	22.2
12 23	8 16.64	+ 3 13.0	2.576	3.404	10.3	22.1
1 2	8 9.70	+ 3 9.3	2.508	3.406	7.8	21.9
1 12	8 1.55	+ 3 19.5	2.466	3.407	5.7	21.8
1 22	7 52.87	+ 3 42.8	2.454	3.408	4.8	21.7
2 1	7 44.42	+ 4 17.4	2.473	3.408	6.1	21.8
2 11	7 36.98	+ 5 0.0	2.520	3.407	8.5	22.0
2 21	7 31.12	+ 5 47.2	2.594	3.406	10.9	22.1

44235 1998 QL_{31} 1 17.9 222°.60 2°.6/16.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 26.20	+25 45.0	1.884	2.692	14.4	19.1
12 23	8 20.97	+26 23.4	1.798	2.686	11.0	18.9
1 2	8 12.97	+27 5.0	1.735	2.681	7.2	18.7
1 12	8 2.92	+27 44.3	1.700	2.675	3.5	18.4
1 22	7 51.92	+28 15.7	1.693	2.668	3.6	18.4
2 1	7 41.32	+28 35.4	1.716	2.662	7.4	18.6
2 11	7 32.41	+28 42.0	1.765	2.655	11.3	18.9
2 21	7 26.10	+28 36.9	1.837	2.648	14.8	19.1

38962 Chuwinghung 1 17.9 9°.80 4°.8/15.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.94	+27 56.8	1.432	2.267	16.7	17.1
12 23	8 17.69	+29 11.7	1.367	2.269	12.8	16.9
1 2	8 11.18	+30 30.2	1.324	2.272	8.6	16.7
1 12	8 2.29	+31 43.2	1.306	2.277	5.2	16.5
1 22	7 52.37	+32 41.9	1.314	2.282	5.8	16.5
2 1	7 43.07	+33 20.4	1.348	2.289	9.6	16.8
2 11	7 35.91	+33 37.3	1.406	2.296	13.6	17.0
2 21	7 31.87	+33 35.0	1.484	2.305	17.2	17.3

378899 2008 UB_{39} 1 17.9 15°.60 4°.3/19.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.82	+ 9 11.1	2.020	2.797	14.6	20.6
12 23	8 16.37	+ 8 38.7	1.937	2.798	11.7	20.4
1 2	8 9.76	+ 8 18.4	1.876	2.800	8.5	20.2
1 12	8 1.62	+ 8 10.8	1.842	2.802	5.4	20.0
1 22	7 52.85	+ 8 15.3	1.835	2.804	4.4	19.9
2 1	7 44.44	+ 8 30.0	1.857	2.806	6.7	20.1
2 11	7 37.36	+ 8 52.0	1.907	2.809	9.9	20.3
2 21	7 32.33	+ 9 18.1	1.980	2.812	13.0	20.5

236838 2007 RG_{80} 1 17.9 113°.92 2°.7/19.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 20.07	+10 41.0	2.342	3.116	12.9	21.3
12 23	8 15.52	+10 47.0	2.259	3.123	10.2	21.1
1 2	8 9.08	+11 4.4	2.201	3.130	7.0	20.9
1 12	8 1.34	+11 32.1	2.169	3.136	3.9	20.7
1 22	7 53.05	+12 7.9	2.167	3.142	2.9	20.7
2 1	7 45.07	+12 48.6	2.195	3.149	5.4	20.8
2 11	7 38.24	+13 31.1	2.252	3.155	8.6	21.0
2 21	7 33.19	+14 12.4	2.334	3.161	11.4	21.2

79488 1998 FF_{31} 1 17.9 325°.36 1°.1/18.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.85	+15 29.8	2.107	2.905	13.4	19.2
12 23	8 14.97	+15 49.6	2.015	2.896	10.4	19.0
1 2	8 8.95	+16 19.6	1.946	2.888	6.8	18.8
1 12	8 1.35	+16 57.4	1.904	2.880	3.0	18.5
1 22	7 53.01	+17 39.8	1.891	2.873	1.8	18.4
2 1	7 44.92	+18 23.0	1.908	2.865	5.7	18.6
2 11	7 38.07	+19 3.6	1.952	2.858	9.5	18.9
2 21	7 33.20	+19 39.3	2.020	2.852	12.8	19.1

229159 2004 TW_{14} 1 17.9 161°.04 2°.4/19.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.78	+11 58.9	2.630	3.396	11.9	21.5
12 23	8 17.34	+11 50.7	2.543	3.403	9.3	21.3
1 2	8 10.14	+11 51.2	2.481	3.409	6.4	21.1
1 12	8 1.72	+11 59.4	2.448	3.415	3.5	20.9
1 22	7 52.80	+12 13.9	2.445	3.420	2.6	20.9
2 1	7 44.19	+12 32.9	2.473	3.424	5.0	21.1
2 11	7 36.66	+12 54.1	2.530	3.428	8.0	21.3
2 21	7 30.79	+13 15.6	2.614	3.431	10.7	21.4

323830 2005 SW_{50} 1 17.9 37°.31 2°.0/18.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.18	+14 29.6	1.782	2.581	15.4	21.0
12 23	8 17.73	+14 30.9	1.703	2.584	12.0	20.7
1 2	8 10.79	+14 43.4	1.646	2.587	8.0	20.5
1 12	8 2.06	+15 5.4	1.616	2.590	3.8	20.3
1 22	7 52.56	+15 33.8	1.613	2.593	2.5	20.2
2 1	7 43.51	+16 5.0	1.639	2.596	6.4	20.4
2 11	7 36.04	+16 35.6	1.691	2.600	10.5	20.7
2 21	7 30.93	+17 3.2	1.767	2.604	14.1	20.9

498878 2008 YS_{102} 1 17.9 45°.16 0°.6/18.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.50	+19 6.6	2.115	2.913	13.3	21.1
12 23	8 17.56	+18 57.4	2.037	2.920	10.2	20.9
1 2	8 10.45	+18 53.4	1.983	2.927	6.6	20.7
1 12	8 1.87	+18 52.6	1.957	2.934	2.6	20.5
1 22	7 52.72	+18 53.0	1.960	2.941	1.7	20.4
2 1	7 44.03	+18 52.8	1.992	2.948	5.6	20.7
2 11	7 36.75	+18 50.8	2.052	2.956	9.2	20.9
2 21	7 31.54	+18 46.4	2.137	2.964	12.4	21.1

329340 2001 LM_{5} 1 17.9 311°.38 23°.8/11.4 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 46.60	+16 28.0	0.321	1.219	37.7	18.8
12 23	8 42.31	+ 9 27.6	0.284	1.213	31.9	18.3
1 2	8 29.68	+ 1 37.4	0.259	1.209	26.2	18.0
1 12	8 10.07	− 6 11.5	0.247	1.204	23.8	17.8
1 22	7 47.11	−12 45.2	0.249	1.200	26.7	17.9
2 1	7 26.00	−17 10.3	0.264	1.197	32.6	18.2
2 11	7 11.19	−19 27.6	0.286	1.194	38.6	18.5
2 21	7 4.27	−20 9.6	0.313	1.192	43.5	18.8

499469 2010 GA_{132} 1 17.9 269°.85 3°.6/20.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 18.79	+ 7 43.9	2.488	3.251	12.6	22.3
12 23	8 14.60	+ 7 42.5	2.384	3.237	10.1	22.1
1 2	8 8.57	+ 7 53.7	2.303	3.223	7.3	21.9
1 12	8 1.19	+ 8 17.3	2.249	3.208	4.7	21.7
1 22	7 53.15	+ 8 51.9	2.224	3.193	3.7	21.6
2 1	7 45.26	+ 9 34.9	2.229	3.179	5.7	21.7
2 11	7 38.34	+10 23.1	2.263	3.164	8.6	21.9
2 21	7 33.06	+11 12.9	2.322	3.149	11.5	22.0

126320 2002 AP_{140} 1 17.9 249°.27 0°.9/17.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 25.29	+20 26.0	1.658	2.468	15.9	20.1
12 23	8 20.62	+21 2.0	1.568	2.458	12.2	19.9
1 2	8 12.96	+21 47.4	1.501	2.449	7.9	19.6
1 12	8 3.01	+22 37.4	1.460	2.438	3.0	19.3
1 22	7 51.92	+23 25.9	1.447	2.428	2.5	19.2
2 1	7 41.15	+24 7.5	1.463	2.417	7.4	19.5
2 11	7 32.14	+24 38.8	1.505	2.407	12.1	19.7
2 21	7 25.92	+24 59.0	1.569	2.396	16.1	19.9

63750 2001 QG_{264} 1 17.9 125°.22 1°.9/17.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 28.38	+22 46.0	1.713	2.519	15.6	19.7
12 23	8 22.62	+23 34.9	1.645	2.533	11.9	19.5
1 2	8 13.98	+24 29.9	1.600	2.546	7.6	19.3
1 12	8 3.30	+25 24.8	1.582	2.559	3.2	19.1
1 22	7 51.81	+26 13.1	1.593	2.571	3.1	19.1
2 1	7 40.93	+26 50.2	1.633	2.583	7.3	19.4
2 11	7 31.98	+27 14.1	1.701	2.594	11.4	19.6
2 21	7 25.82	+27 25.7	1.791	2.605	14.9	19.9

145229 2005 JT_{70} 1 17.9 186°.86 2°.5/19.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 23.02	+11 30.4	2.027	2.807	14.5	20.7
12 23	8 18.16	+11 48.0	1.939	2.807	11.4	20.5
1 2	8 10.99	+12 19.1	1.874	2.807	7.8	20.3
1 12	8 2.15	+13 1.8	1.835	2.806	4.0	20.0
1 22	7 52.54	+13 52.9	1.826	2.804	2.7	19.9
2 1	7 43.24	+14 48.1	1.847	2.803	6.0	20.1
2 11	7 35.28	+15 43.1	1.896	2.800	9.8	20.4
2 21	7 29.45	+16 34.4	1.970	2.798	13.2	20.6

463443 2013 NS_{10} 1 17.9 182°.06 0°.8/17.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 26.85	+23 9.8	2.298	3.090	12.6	22.4
12 23	8 20.80	+23 13.5	2.210	3.091	9.6	22.2
1 2	8 12.52	+23 19.3	2.148	3.091	6.2	22.0
1 12	8 2.69	+23 24.4	2.114	3.091	2.4	21.7
1 22	7 52.22	+23 25.9	2.110	3.090	1.9	21.7
2 1	7 42.15	+23 22.1	2.137	3.089	5.7	22.0
2 11	7 33.50	+23 12.4	2.193	3.087	9.2	22.2
2 21	7 26.96	+22 57.5	2.275	3.085	12.3	22.4

156335 2001 XM_{132} 1 17.9 126°.91 2°.4/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 28.83	+23 42.5	1.806	2.609	15.1	20.6
12 23	8 22.85	+24 40.5	1.739	2.626	11.4	20.4
1 2	8 14.08	+25 43.7	1.696	2.641	7.3	20.2
1 12	8 3.33	+26 45.4	1.680	2.656	3.3	20.0
1 22	7 51.80	+27 39.2	1.694	2.670	3.4	20.0
2 1	7 40.86	+28 20.2	1.737	2.683	7.3	20.3
2 11	7 31.79	+28 46.9	1.808	2.696	11.2	20.5
2 21	7 25.41	+29 0.1	1.901	2.708	14.5	20.8

91234 1999 CN_{1} 1 18.0 34°.80 5°.7/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 28.59	+31 11.6	1.245	2.078	18.8	18.5
12 23	8 23.90	+31 55.6	1.187	2.085	14.6	18.3
1 2	8 15.28	+32 37.1	1.149	2.094	10.0	18.1
1 12	8 3.88	+33 6.6	1.135	2.103	6.3	17.9
1 22	7 51.46	+33 16.3	1.145	2.113	6.6	17.9
2 1	7 40.11	+33 3.1	1.181	2.124	10.4	18.2
2 11	7 31.58	+32 29.7	1.241	2.134	14.8	18.4
2 21	7 26.82	+31 41.7	1.320	2.146	18.6	18.7

277603 2006 AF_{63} 1 18.0 146°.99 1°.4/17.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 24.59	+23 44.8	2.149	2.950	13.0	21.6
12 23	8 19.25	+24 3.3	2.069	2.954	9.9	21.4
1 2	8 11.61	+24 24.8	2.013	2.958	6.4	21.2
1 12	8 2.36	+24 45.4	1.985	2.962	2.6	20.9
1 22	7 52.46	+25 1.5	1.986	2.965	2.3	20.9
2 1	7 43.00	+25 10.7	2.018	2.969	6.0	21.2
2 11	7 35.01	+25 12.0	2.077	2.972	9.6	21.4
2 21	7 29.20	+25 5.9	2.161	2.975	12.7	21.6

39776 1997 GF_{34} 1 18.0 65°.25 1°.3/17.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.78	+22 32.1	2.018	2.824	13.6	19.6
12 23	8 18.07	+23 2.6	1.937	2.825	10.4	19.4
1 2	8 10.96	+23 38.1	1.879	2.826	6.6	19.1
1 12	8 2.15	+24 14.5	1.849	2.826	2.7	18.9
1 22	7 52.59	+24 47.2	1.847	2.827	2.4	18.9
2 1	7 43.42	+25 12.9	1.876	2.828	6.3	19.1
2 11	7 35.74	+25 29.7	1.931	2.828	10.1	19.3
2 21	7 30.30	+25 37.4	2.010	2.829	13.4	19.5