429292 2010 CZ_{155} 1 23.9 144°.63 3°.5/22.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 48.52	+29 54.9	2.375	3.212	10.7	21.0
1 2	8 41.95	+30 23.6	2.307	3.216	7.9	20.8
1 12	8 33.47	+30 48.8	2.266	3.220	5.0	20.6
1 22	8 23.83	+31 5.9	2.254	3.224	3.5	20.5
2 1	8 14.01	+31 11.6	2.271	3.228	5.0	20.6
2 11	8 5.07	+31 4.4	2.318	3.231	7.9	20.8
2 21	7 57.82	+30 45.3	2.392	3.234	10.7	21.0
3 2	7 52.85	+30 16.1	2.488	3.237	13.1	21.2

288312 2004 BO_{35} 1 23.9 252°.51 1°.1/23.3 18

12 23	8 46.57	+18 31.9	1.807	2.648	13.4	21.1
1 2	8 41.15	+19 35.5	1.724	2.639	9.7	20.8
1 12	8 33.32	+20 49.2	1.667	2.630	5.4	20.6
1 22	8 23.84	+22 7.0	1.638	2.621	1.2	20.2
2 1	8 13.82	+23 21.6	1.638	2.611	4.3	20.4
2 11	8 4.56	+24 26.9	1.667	2.602	8.7	20.7
2 21	7 57.18	+25 19.1	1.722	2.592	12.8	20.9
3 2	7 52.49	+25 57.0	1.798	2.582	16.2	21.1

102440 1999 TW_{213} 1 24.0 146°.61 0°.4/24.2 18

12 23	8 49.08	+16 33.3	2.002	2.830	12.8	21.1
1 2	8 42.50	+17 0.0	1.933	2.840	9.3	20.9
1 12	8 33.85	+17 34.5	1.890	2.849	5.3	20.7
1 22	8 23.91	+18 13.0	1.875	2.858	1.0	20.4
2 1	8 13.74	+18 51.1	1.891	2.866	3.4	20.6
2 11	8 4.46	+19 25.0	1.937	2.874	7.5	20.9
2 21	7 56.97	+19 52.3	2.009	2.881	11.1	21.1
3 2	7 51.92	+20 12.1	2.104	2.887	14.2	21.3

67254 2000 EV_{108} 1 24.0 37°.19 0°.6/23.7 18

12 23	8 46.75	+19 43.2	1.545	2.396	14.7	18.1
1 2	8 41.10	+20 2.4	1.498	2.418	10.5	17.9
1 12	8 33.10	+20 27.4	1.476	2.440	5.8	17.6
1 22	8 23.77	+20 53.4	1.480	2.463	1.0	17.4
2 1	8 14.40	+21 15.8	1.512	2.487	4.1	17.6
2 11	8 6.31	+21 31.4	1.571	2.512	8.6	18.0
2 21	8 0.44	+21 38.8	1.655	2.537	12.5	18.3
3 2	7 57.34	+21 38.0	1.759	2.562	15.7	18.5

210067 2006 QO_{6} 1 24.0 120°.84 2°.0/25.5 18

12 23	8 42.79	+10 31.9	2.480	3.293	11.1	20.6
1 2	8 37.69	+10 56.5	2.405	3.299	8.3	20.4
1 12	8 31.04	+11 31.9	2.355	3.306	5.2	20.2
1 22	8 23.43	+12 15.7	2.334	3.312	2.4	20.0
2 1	8 15.62	+13 4.8	2.344	3.318	3.1	20.1
2 11	8 8.40	+13 55.4	2.384	3.324	6.1	20.3
2 21	8 2.47	+14 44.1	2.452	3.329	9.1	20.5
3 2	7 58.34	+15 28.4	2.544	3.335	11.8	20.7

166676 2002 TO_{92} 1 24.0 189°.71 0°.2/23.9 18 R

12 23	8 45.08	+18 44.9	2.453	3.284	10.7	20.8
1 2	8 39.41	+19 8.0	2.374	3.283	7.7	20.6
1 12	8 32.04	+19 36.1	2.321	3.282	4.3	20.4
1 22	8 23.61	+20 6.0	2.298	3.281	0.7	20.1
2 1	8 14.92	+20 34.4	2.305	3.280	3.0	20.3
2 11	8 6.88	+20 58.6	2.342	3.278	6.5	20.5
2 21	8 0.23	+21 16.8	2.407	3.276	9.6	20.7
3 2	7 55.54	+21 28.4	2.496	3.273	12.3	20.9

278451 2007 TO_{22} 1 24.0 144°.03 3°.3/26.5 18 R

12 23	8 43.15	+ 6 13.0	2.684	3.476	11.0	21.0
1 2	8 37.82	+ 6 21.9	2.607	3.484	8.5	20.9
1 12	8 31.06	+ 6 42.9	2.556	3.492	5.8	20.7
1 22	8 23.44	+ 7 14.9	2.534	3.500	3.6	20.6
2 1	8 15.63	+ 7 55.4	2.541	3.507	3.8	20.6
2 11	8 8.37	+ 8 41.2	2.580	3.514	6.0	20.8
2 21	8 2.31	+ 9 29.0	2.646	3.520	8.7	20.9
3 2	7 57.91	+10 15.7	2.738	3.527	11.1	21.1

52672 1998 DH_{5} 1 24.0 331°.64 2°.3/22.5 18

12 23	8 43.99	+23 20.2	2.105	2.951	11.6	18.6
1 2	8 38.99	+24 17.5	2.030	2.947	8.3	18.4
1 12	8 31.96	+25 18.7	1.980	2.942	4.8	18.1
1 22	8 23.61	+26 18.1	1.959	2.938	2.3	18.0
2 1	8 14.91	+27 10.3	1.967	2.935	4.5	18.1
2 11	8 6.93	+27 51.2	2.005	2.931	8.0	18.3
2 21	8 0.58	+28 19.2	2.068	2.927	11.4	18.5
3 2	7 56.53	+28 34.2	2.153	2.924	14.2	18.7

159470 2000 QW_{119} 1 24.0 125°.93 1°.4/24.7 18

12 23	8 50.50	+14 36.7	1.800	2.626	14.1	20.4
1 2	8 43.62	+14 47.0	1.736	2.641	10.3	20.2
1 12	8 34.50	+15 7.0	1.698	2.655	6.1	19.9
1 22	8 24.03	+15 33.3	1.687	2.669	1.9	19.7
2 1	8 13.38	+16 2.1	1.706	2.682	3.7	19.9
2 11	8 3.79	+16 29.6	1.755	2.694	7.9	20.1
2 21	7 56.21	+16 53.2	1.829	2.706	11.8	20.4
3 2	7 51.28	+17 11.2	1.926	2.718	15.0	20.6

165257 2000 SY_{206} 1 24.0 171°.30 4°.1/21.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 52.08	+28 20.3	1.792	2.636	13.4	20.2
1 2	8 45.11	+29 13.5	1.725	2.638	9.8	20.0
1 12	8 35.51	+30 5.2	1.684	2.641	6.2	19.8
1 22	8 24.22	+30 47.9	1.670	2.643	4.1	19.7
2 1	8 12.60	+31 15.7	1.686	2.644	6.2	19.8
2 11	8 2.10	+31 25.8	1.729	2.645	9.9	20.0
2 21	7 53.87	+31 18.9	1.797	2.645	13.4	20.3
3 2	7 48.66	+30 57.9	1.886	2.645	16.4	20.5

27921 1996 VY_{26} 1 24.0 108°.80 0°.4/24.2 18 R

12 23	8 44.81	+16 48.6	2.493	3.319	10.6	19.1
1 2	8 39.08	+17 9.2	2.427	3.334	7.7	18.9
1 12	8 31.79	+17 35.6	2.388	3.347	4.4	18.7
1 22	8 23.57	+18 5.0	2.378	3.361	0.9	18.5
2 1	8 15.21	+18 34.3	2.399	3.374	2.8	18.6
2 11	8 7.55	+19 0.8	2.450	3.388	6.1	18.9
2 21	8 1.26	+19 22.6	2.529	3.401	9.1	19.1
3 2	7 56.85	+19 38.8	2.632	3.413	11.7	19.3

492469 2014 NH_{30} 1 24.0 287°.13 4°.4/25.4 17

12 23	8 49.37	+10 42.0	1.458	2.288	16.6	21.5
1 2	8 43.56	+10 2.3	1.371	2.273	12.8	21.2
1 12	8 34.86	+ 9 35.4	1.307	2.257	8.4	20.9
1 22	8 24.16	+ 9 21.8	1.268	2.242	4.7	20.7
2 1	8 12.78	+ 9 20.4	1.256	2.226	5.7	20.7
2 11	8 2.33	+ 9 28.4	1.270	2.211	10.1	20.9
2 21	7 54.15	+ 9 42.3	1.308	2.196	14.8	21.1
3 2	7 49.16	+ 9 58.3	1.367	2.181	18.8	21.3

92443 2000 KS_{4} 1 24.0 131°.32 3°.3/21.9 18

12 23	8 52.01	+25 1.0	1.902	2.741	12.9	20.2
1 2	8 44.83	+26 22.3	1.846	2.759	9.3	20.1
1 12	8 35.25	+27 45.2	1.816	2.775	5.5	19.9
1 22	8 24.18	+29 1.9	1.816	2.791	3.3	19.7
2 1	8 12.84	+30 5.2	1.845	2.806	5.5	19.9
2 11	8 2.56	+30 51.3	1.904	2.820	9.1	20.2
2 21	7 54.38	+31 19.4	1.989	2.833	12.5	20.4
3 2	7 48.98	+31 31.5	2.096	2.845	15.3	20.6

346958 2010 BX_{51} 1 24.0 186°.03 2°.0/25.4 17

12 23	8 44.04	+11 31.5	2.844	3.651	10.0	21.3
1 2	8 38.43	+11 26.1	2.759	3.651	7.5	21.2
1 12	8 31.41	+11 28.4	2.701	3.650	4.7	21.0
1 22	8 23.53	+11 37.1	2.673	3.649	2.3	20.8
2 1	8 15.44	+11 50.7	2.676	3.648	3.0	20.9
2 11	8 7.88	+12 7.0	2.709	3.646	5.7	21.0
2 21	8 1.46	+12 24.1	2.771	3.644	8.4	21.2
3 2	7 56.67	+12 40.3	2.858	3.642	10.8	21.4

218689 2005 TR_{64} 1 24.0 8°.98 2°.9/25.5 18

12 23	8 44.98	+10 43.8	1.705	2.534	14.7	20.3
1 2	8 39.88	+10 50.0	1.632	2.534	11.0	20.1
1 12	8 32.53	+11 10.6	1.582	2.535	7.0	19.8
1 22	8 23.74	+11 43.4	1.558	2.536	3.3	19.6
2 1	8 14.61	+12 24.7	1.563	2.537	4.2	19.7
2 11	8 6.36	+13 9.4	1.595	2.538	8.2	19.9
2 21	7 59.99	+13 53.2	1.652	2.540	12.2	20.1
3 2	7 56.20	+14 32.5	1.732	2.542	15.6	20.4

269385 2009 QY_{3} 1 24.0 83°.70 2°.2/25.4 18

12 23	8 46.26	+10 34.3	1.935	2.753	13.6	21.0
1 2	8 40.41	+11 6.9	1.878	2.776	10.1	20.8
1 12	8 32.64	+11 52.8	1.846	2.798	6.2	20.6
1 22	8 23.74	+12 48.5	1.841	2.820	2.6	20.5
2 1	8 14.71	+13 49.1	1.867	2.842	3.6	20.6
2 11	8 6.59	+14 49.4	1.922	2.863	7.2	20.8
2 21	8 0.21	+15 45.3	2.004	2.884	10.7	21.1
3 2	7 56.13	+16 33.9	2.109	2.905	13.7	21.3

293314 2007 DD_{45} 1 24.0 92°.99 0°.5/23.8 18

12 23	8 48.11	+19 48.5	1.851	2.691	13.2	21.3
1 2	8 41.98	+20 2.2	1.782	2.696	9.5	21.0
1 12	8 33.63	+20 20.9	1.739	2.702	5.3	20.8
1 22	8 23.92	+20 40.6	1.724	2.707	0.9	20.5
2 1	8 13.97	+20 57.5	1.737	2.712	3.7	20.7
2 11	8 5.00	+21 8.7	1.780	2.718	8.0	21.0
2 21	7 57.97	+21 13.0	1.848	2.723	11.8	21.2
3 2	7 53.52	+21 10.2	1.938	2.728	15.0	21.4

205531 2001 SO_{126} 1 24.0 131°.96 0°.3/24.2 18

12 23	8 45.11	+17 22.9	2.560	3.386	10.4	21.2
1 2	8 39.30	+17 34.7	2.489	3.395	7.5	21.0
1 12	8 31.93	+17 51.6	2.444	3.403	4.3	20.8
1 22	8 23.62	+18 11.0	2.428	3.411	0.9	20.5
2 1	8 15.15	+18 30.3	2.444	3.419	2.7	20.7
2 11	8 7.35	+18 47.2	2.489	3.427	6.1	20.9
2 21	8 0.90	+19 0.2	2.563	3.434	9.1	21.1
3 2	7 56.30	+19 8.5	2.661	3.441	11.6	21.3

459359 2012 HN_{83} 1 24.0 316.°06 2.°1/22.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 44.74	+19 54.2	1.637	2.489	14.0	21.2
1 2	8 40.10	+21 18.6	1.557	2.477	10.1	21.0
1 12	8 32.87	+22 54.3	1.502	2.466	5.7	20.7
1 22	8 23.83	+24 33.4	1.474	2.456	2.1	20.4
2 1	8 14.17	+26 6.7	1.475	2.445	5.2	20.6
2 11	8 5.30	+27 26.6	1.504	2.435	9.7	20.9
2 21	7 58.46	+28 28.7	1.557	2.426	13.9	21.1
3 2	7 54.53	+29 11.9	1.631	2.417	17.5	21.3

444173 2005 NE_{81} 1 24.0 160.°80 0.°4/23.8 18

12 23	8 51.61	+18 12.6	1.728	2.563	14.2	22.7
1 2	8 44.68	+18 50.5	1.659	2.570	10.3	22.5
1 12	8 35.24	+19 36.6	1.614	2.576	5.8	22.3
1 22	8 24.21	+20 25.3	1.598	2.582	1.0	21.9
2 1	8 12.84	+21 10.8	1.612	2.586	4.0	22.2
2 11	8 2.51	+21 48.7	1.654	2.590	8.6	22.5
2 21	7 54.33	+22 16.5	1.722	2.593	12.7	22.7
3 2	7 49.03	+22 33.8	1.813	2.596	16.1	22.9

181357 2006 RB_{50} 1 24.0 39.°95 2.°5/25.2 18

12 23	8 46.28	+11 55.3	1.591	2.425	15.3	20.7
1 2	8 40.92	+12 2.4	1.523	2.429	11.4	20.4
1 12	8 33.15	+12 23.6	1.478	2.433	7.0	20.2
1 22	8 23.86	+12 56.1	1.458	2.438	3.0	20.0
2 1	8 14.25	+13 35.8	1.467	2.442	4.2	20.0
2 11	8 5.64	+14 17.5	1.503	2.447	8.6	20.3
2 21	7 59.09	+14 57.0	1.564	2.452	12.7	20.6
3 2	7 55.30	+15 31.0	1.646	2.457	16.3	20.8

6612 Hachioji 1 24.0 258.°29 1.°7/23.1 18

12 23	8 48.63	+21 17.2	1.738	2.583	13.7	17.6
1 2	8 42.79	+22 1.0	1.653	2.569	9.9	17.4
1 12	8 34.34	+22 51.2	1.592	2.555	5.6	17.1
1 22	8 24.09	+23 42.1	1.558	2.541	1.8	16.8
2 1	8 13.24	+24 27.3	1.554	2.526	4.7	17.0
2 11	8 3.23	+25 2.0	1.578	2.511	9.2	17.2
2 21	7 55.25	+25 24.0	1.627	2.496	13.4	17.4
3 2	7 50.18	+25 33.4	1.696	2.480	17.0	17.6

22497 Immanuelfuchs 1 24.0 93.°33 0.°8/23.5 18

12 23	8 45.96	+19 45.3	2.059	2.898	12.1	18.5
1 2	8 40.27	+20 20.3	1.993	2.907	8.7	18.3
1 12	8 32.62	+21 0.7	1.953	2.915	4.8	18.1
1 22	8 23.76	+21 41.9	1.941	2.924	1.0	17.8
2 1	8 14.68	+22 19.7	1.958	2.932	3.6	18.0
2 11	8 6.44	+22 50.5	2.005	2.941	7.4	18.3
2 21	7 59.90	+23 12.5	2.079	2.949	10.9	18.5
3 2	7 55.65	+23 25.3	2.175	2.957	13.8	18.7

428930 2008 WO_{110} 1 24.0 286.°46 2.°3/22.6 18

12 23	8 45.70	+24 18.6	2.147	2.990	11.5	21.3
1 2	8 40.15	+25 2.2	2.074	2.989	8.3	21.1
1 12	8 32.60	+25 47.8	2.026	2.988	4.8	20.9
1 22	8 23.77	+26 30.4	2.008	2.987	2.3	20.7
2 1	8 14.63	+27 5.3	2.019	2.986	4.4	20.9
2 11	8 6.28	+27 29.5	2.059	2.985	7.9	21.1
2 21	7 59.59	+27 41.7	2.125	2.984	11.2	21.3
3 2	7 55.20	+27 42.7	2.213	2.983	14.0	21.5

334061 2001 OU_{91} 1 24.0 74.°37 6.°1/27.7 18

12 23	8 45.66	+ 0 15.8	2.283	3.051	13.4	20.3
1 2	8 39.69	− 0 22.0	2.225	3.075	10.8	20.2
1 12	8 32.13	− 0 43.0	2.192	3.100	8.3	20.0
1 22	8 23.67	− 0 46.6	2.185	3.124	6.4	20.0
2 1	8 15.13	− 0 33.8	2.207	3.149	6.3	20.0
2 11	8 7.36	− 0 7.5	2.257	3.173	7.9	20.1
2 21	8 1.06	+ 0 28.1	2.334	3.196	10.1	20.3
3 2	7 56.71	+ 1 8.7	2.434	3.220	12.4	20.5

377027 2002 RA_{238} 1 24.0 227.°04 3.°4/22.1 18

12 23	8 47.97	+28 44.9	2.237	3.077	11.2	20.9
1 2	8 41.75	+29 18.5	2.163	3.074	8.2	20.7
1 12	8 33.48	+29 50.0	2.115	3.071	5.1	20.5
1 22	8 23.92	+30 14.2	2.096	3.068	3.4	20.4
2 1	8 14.08	+30 27.3	2.106	3.065	5.1	20.5
2 11	8 5.09	+30 27.3	2.145	3.062	8.2	20.7
2 21	7 57.84	+30 14.5	2.210	3.058	11.2	20.8
3 2	7 52.95	+29 50.8	2.298	3.054	13.9	21.0

42798 1999 DH_2 1 24.0 31.°84 1.°5/23.3 18

12 23	8 46.54	+18 49.7	1.162	2.027	17.6	17.6
1 2	8 41.80	+19 54.9	1.110	2.036	12.6	17.3
1 12	8 33.91	+21 12.2	1.079	2.046	7.0	17.0
1 22	8 24.01	+22 32.3	1.073	2.056	1.7	16.7
2 1	8 13.77	+23 45.1	1.093	2.068	5.5	17.0
2 11	8 5.00	+24 43.2	1.138	2.080	11.0	17.4
2 21	7 59.04	+25 23.0	1.205	2.092	15.8	17.7
3 2	7 56.65	+25 44.9	1.290	2.106	19.7	18.0

318074 2004 GP_1 1 24.0 254.°54 2.°5/25.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 45.16	+ 9 14.2	1.988	2.803	13.4	20.9
1 2	8 39.93	+ 9 50.5	1.895	2.790	10.2	20.7
1 12	8 32.59	+10 43.2	1.826	2.776	6.5	20.4
1 22	8 23.79	+11 49.4	1.785	2.762	3.0	20.2
2 1	8 14.49	+13 4.5	1.773	2.748	3.8	20.2
2 11	8 5.78	+14 22.4	1.791	2.733	7.7	20.4
2 21	7 58.64	+15 37.7	1.837	2.718	11.5	20.6
3 2	7 53.82	+16 46.0	1.905	2.703	14.9	20.8

178606 2000 DR_{55} 1 24.0 9.°39 5.°2/22.5 18

12 23	8 49.67	+29 55.7	1.182	2.051	17.1	19.9
1 2	8 44.19	+30 17.3	1.128	2.052	12.6	19.7
1 12	8 35.27	+30 33.2	1.095	2.056	8.0	19.4
1 22	8 24.25	+30 35.4	1.085	2.060	5.2	19.3
2 1	8 13.01	+30 18.3	1.101	2.066	7.6	19.4
2 11	8 3.53	+29 41.5	1.141	2.073	12.1	19.7
2 21	7 57.18	+28 48.6	1.202	2.081	16.5	20.0
3 2	7 54.65	+27 44.7	1.282	2.091	20.2	20.2

362683 2011 UD_{93} 1 24.0 315.°07 4.°6/25.9 18

12 23	8 46.57	+ 8 29.8	1.442	2.271	16.8	21.1
1 2	8 41.44	+ 8 14.1	1.365	2.264	13.0	20.8
1 12	8 33.63	+ 8 16.2	1.310	2.258	8.7	20.5
1 22	8 23.99	+ 8 35.7	1.279	2.252	5.0	20.3
2 1	8 13.84	+ 9 9.6	1.275	2.246	5.6	20.3
2 11	8 4.66	+ 9 52.8	1.297	2.240	9.7	20.6
2 21	7 57.68	+10 39.6	1.343	2.235	14.1	20.8
3 2	7 53.75	+11 24.7	1.409	2.230	18.0	21.0

34101 Hesrivastava 1 24.0 216.°96 2.°8/25.2 18

12 23	8 49.41	+11 53.9	1.728	2.552	14.7	19.0
1 2	8 43.14	+11 44.3	1.647	2.547	11.1	18.8
1 12	8 34.44	+11 46.6	1.589	2.542	7.0	18.5
1 22	8 24.13	+11 59.4	1.558	2.536	3.2	18.3
2 1	8 13.39	+12 19.7	1.556	2.530	4.4	18.4
2 11	8 3.52	+12 43.9	1.583	2.523	8.6	18.6
2 21	7 55.63	+13 8.6	1.635	2.516	12.7	18.8
3 2	7 50.49	+13 31.0	1.709	2.509	16.2	19.0

350988 2003 GW 1 24.0 247.°35 21.°5/ 2.9 18

12 23	8 59.41	−42 28.8	2.096	2.501	22.6	21.5
1 2	8 51.20	−43 54.3	1.995	2.472	22.3	21.3
1 12	8 39.51	−44 42.3	1.901	2.441	22.0	21.2
1 22	8 25.10	−44 41.3	1.817	2.409	21.7	21.1
2 1	8 9.42	−43 41.9	1.746	2.374	21.5	20.9
2 11	7 54.36	−41 40.3	1.690	2.337	21.6	20.8
2 21	7 41.64	−38 40.4	1.650	2.298	22.1	20.8
3 2	7 32.52	−34 52.5	1.628	2.257	23.1	20.7

46556 1991 FU_3 1 24.0 283.°04 3.°8/22.5 18

12 23	8 51.46	+25 41.5	1.339	2.197	16.1	17.9
1 2	8 45.46	+26 26.0	1.267	2.188	11.8	17.6
1 12	8 36.12	+27 12.9	1.217	2.180	7.1	17.3
1 22	8 24.47	+27 53.5	1.192	2.171	3.8	17.1
2 1	8 12.20	+28 20.0	1.195	2.162	6.6	17.3
2 11	8 1.23	+28 28.0	1.222	2.153	11.6	17.5
2 21	7 53.08	+28 17.9	1.273	2.145	16.2	17.8
3 2	7 48.69	+27 52.8	1.342	2.136	20.2	18.0

296017 2008 YN_{144} 1 24.0 238.°49 0.°3/24.3 18

12 23	8 43.30	+15 46.5	2.343	3.173	11.1	20.5
1 2	8 38.26	+16 27.3	2.263	3.171	8.1	20.3
1 12	8 31.51	+17 16.5	2.209	3.169	4.6	20.1
1 22	8 23.64	+18 10.6	2.184	3.167	0.9	19.8
2 1	8 15.47	+19 5.4	2.189	3.165	3.0	20.0
2 11	8 7.91	+19 56.8	2.225	3.163	6.6	20.2
2 21	8 1.73	+20 41.8	2.287	3.161	9.9	20.4
3 2	7 57.51	+21 18.6	2.374	3.159	12.7	20.6

83462 2001 SC_{68} 1 24.0 131.°55 5.°6/27.7 18

12 23	8 45.76	+ 0 57.1	2.175	2.949	13.8	19.9
1 2	8 39.97	+ 0 50.5	2.103	2.961	11.1	19.8
1 12	8 32.43	+ 1 2.1	2.055	2.972	8.2	19.6
1 22	8 23.80	+ 1 31.6	2.034	2.983	6.0	19.5
2 1	8 14.96	+ 2 16.8	2.042	2.994	5.8	19.5
2 11	8 6.85	+ 3 13.6	2.078	3.004	7.8	19.6
2 21	8 0.24	+ 4 16.7	2.142	3.014	10.5	19.8
3 2	7 55.69	+ 5 21.2	2.229	3.023	13.1	20.0

500458 2012 TD_{209} 1 24.0 146.°45 1.°4/25.1 17

12 23	8 43.15	+12 28.8	2.471	3.289	11.0	22.0
1 2	8 38.03	+12 57.4	2.393	3.292	8.1	21.9
1 12	8 31.32	+13 35.6	2.341	3.295	4.9	21.7
1 22	8 23.61	+14 20.9	2.318	3.299	1.8	21.4
2 1	8 15.67	+15 9.9	2.326	3.301	2.9	21.5
2 11	8 8.32	+15 58.7	2.364	3.304	6.2	21.7
2 21	8 2.26	+16 44.3	2.430	3.307	9.2	21.9
3 2	7 58.03	+17 24.4	2.520	3.309	11.9	22.1

34368 2000 RA_{41} 1 24.0 216°.20 2°.2/22.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 47.45	+26 27.6	2.520	3.355	10.2	18.4
1 2	8 41.14	+26 39.3	2.442	3.353	7.4	18.2
1 12	8 33.06	+26 49.5	2.392	3.351	4.4	18.0
1 22	8 23.91	+26 55.0	2.370	3.349	2.2	17.8
2 1	8 14.57	+26 53.0	2.380	3.346	3.9	18.0
2 11	8 5.97	+26 42.3	2.419	3.344	7.0	18.2
2 21	7 58.88	+26 23.1	2.486	3.341	9.9	18.3
3 2	7 53.86	+25 56.5	2.576	3.339	12.4	18.5

107618 2001 EO_{7} 1 24.0 239°.99 1°.1/23.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.83	+19 11.0	1.405	2.256	16.0	19.9
1 2	8 44.03	+19 54.9	1.332	2.251	11.6	19.6
1 12	8 35.21	+20 48.8	1.282	2.247	6.5	19.3
1 22	8 24.33	+21 46.0	1.259	2.242	1.4	18.9
2 1	8 12.89	+22 38.9	1.262	2.237	4.9	19.2
2 11	8 2.57	+23 21.3	1.293	2.232	10.2	19.5
2 21	7 54.76	+23 50.4	1.347	2.227	15.0	19.7
3 2	7 50.35	+24 5.7	1.421	2.221	18.9	20.0

463309 2012 JO_{22} 1 24.0 211°.49 2°.3/25.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.60	+ 9 5.4	2.568	3.370	11.1	21.6
1 2	8 39.08	+ 9 33.9	2.476	3.363	8.4	21.4
1 12	8 31.95	+10 14.4	2.409	3.356	5.4	21.2
1 22	8 23.74	+11 4.9	2.372	3.347	2.7	21.0
2 1	8 15.20	+12 2.1	2.366	3.339	3.2	21.0
2 11	8 7.16	+13 2.0	2.391	3.329	6.2	21.2
2 21	8 0.34	+14 0.9	2.445	3.319	9.3	21.4
3 2	7 55.32	+14 55.5	2.523	3.309	12.0	21.5

292007 2006 QH_{124} 1 24.0 221°.69 0°.3/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.33	+17 45.0	1.894	2.727	13.2	21.1
1 2	8 42.99	+17 57.3	1.811	2.720	9.6	20.9
1 12	8 34.34	+18 16.6	1.752	2.713	5.5	20.6
1 22	8 24.17	+18 39.2	1.722	2.706	1.0	20.3
2 1	8 13.58	+19 1.5	1.722	2.697	3.6	20.5
2 11	8 3.82	+19 19.9	1.750	2.689	8.0	20.7
2 21	7 55.93	+19 32.6	1.805	2.680	12.0	20.9
3 2	7 50.65	+19 38.7	1.882	2.671	15.4	21.2

299549 2006 DT_{118} 1 24.0 305°.46 3°.1/22.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.11	+23 33.5	1.383	2.242	15.6	20.1
1 2	8 42.99	+24 29.5	1.306	2.229	11.4	19.8
1 12	8 34.73	+25 31.9	1.253	2.217	6.7	19.5
1 22	8 24.28	+26 32.2	1.224	2.204	3.2	19.3
2 1	8 13.12	+27 22.0	1.223	2.192	6.2	19.4
2 11	8 3.05	+27 55.1	1.247	2.180	11.2	19.7
2 21	7 55.54	+28 9.9	1.294	2.169	15.8	19.9
3 2	7 51.56	+28 7.8	1.360	2.158	19.8	20.1

226818 2004 RM_{245} 1 24.0 81°.30 3°.3/22.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.84	+27 4.3	1.896	2.741	12.7	21.0
1 2	8 42.62	+27 41.9	1.831	2.746	9.2	20.8
1 12	8 34.08	+28 18.5	1.791	2.751	5.6	20.6
1 22	8 24.12	+28 48.4	1.779	2.755	3.3	20.5
2 1	8 13.91	+29 6.8	1.797	2.760	5.3	20.6
2 11	8 4.73	+29 11.4	1.842	2.764	8.9	20.8
2 21	7 57.58	+29 2.5	1.912	2.769	12.3	21.1
3 2	7 53.11	+28 42.1	2.004	2.774	15.2	21.3

208726 2002 KD_{3} 1 24.0 258°.82 1°.1/23.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.99	+20 19.4	1.718	2.562	13.9	21.4
1 2	8 43.08	+20 53.0	1.632	2.548	10.1	21.1
1 12	8 34.56	+21 33.4	1.571	2.534	5.7	20.9
1 22	8 24.24	+22 15.4	1.537	2.520	1.3	20.5
2 1	8 13.32	+22 53.2	1.531	2.505	4.4	20.7
2 11	8 3.25	+23 22.4	1.554	2.490	9.1	20.9
2 21	7 55.24	+23 40.7	1.602	2.475	13.4	21.2
3 2	7 50.13	+23 47.9	1.671	2.459	17.0	21.4

166261 2002 GN_{65} 1 24.0 205°.62 1°.0/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.64	+14 59.5	1.954	2.780	13.1	21.1
1 2	8 42.42	+15 19.2	1.871	2.776	9.7	20.9
1 12	8 34.00	+15 48.5	1.813	2.771	5.7	20.7
1 22	8 24.12	+16 24.2	1.783	2.765	1.5	20.4
2 1	8 13.84	+17 2.1	1.783	2.759	3.5	20.5
2 11	8 4.33	+17 38.2	1.813	2.753	7.7	20.7
2 21	7 56.59	+18 9.4	1.869	2.745	11.6	21.0
3 2	7 51.32	+18 34.0	1.949	2.737	14.9	21.2

54542 2000 QO_{59} 1 24.0 236°.92 2°.4/22.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.62	+22 35.1	1.632	2.480	14.2	19.6
1 2	8 43.64	+23 29.5	1.555	2.473	10.3	19.4
1 12	8 34.91	+24 29.7	1.503	2.466	5.9	19.1
1 22	8 24.30	+25 28.6	1.477	2.458	2.4	18.9
2 1	8 13.14	+26 19.0	1.481	2.450	5.3	19.0
2 11	8 2.94	+26 55.7	1.511	2.442	9.8	19.3
2 21	7 54.99	+27 16.9	1.567	2.433	14.0	19.5
3 2	7 50.11	+27 23.4	1.643	2.425	17.5	19.7

142813 2002 UP_{38} 1 24.0 28°.88 4°.7/22.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 47.51	+26 23.4	1.101	1.975	17.6	19.1
1 2	8 42.53	+27 25.8	1.066	1.995	12.7	18.9
1 12	8 34.28	+28 27.8	1.052	2.016	7.7	18.7
1 22	8 24.15	+29 19.0	1.062	2.039	4.7	18.6
2 1	8 13.99	+29 51.5	1.097	2.063	7.4	18.8
2 11	8 5.67	+30 2.2	1.155	2.088	11.9	19.1
2 21	8 0.40	+29 52.9	1.235	2.114	16.1	19.5
3 2	7 58.75	+29 27.4	1.333	2.141	19.6	19.8

453326 2008 WV_{126} 1 24.0 319°.89 1°.1/24.5 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.96	+14 59.5	1.320	2.173	16.6	21.2
1 2	8 40.70	+15 23.8	1.237	2.156	12.3	20.9
1 12	8 33.46	+16 3.5	1.176	2.139	7.2	20.5
1 22	8 24.08	+16 54.3	1.140	2.123	1.8	20.1
2 1	8 13.95	+17 50.0	1.130	2.108	4.6	20.3
2 11	8 4.76	+18 43.3	1.145	2.093	10.2	20.6
2 21	7 57.97	+19 28.9	1.184	2.079	15.4	20.8
3 2	7 54.56	+20 3.4	1.241	2.066	19.8	21.0

4725 Milone 1 24.0 27°.40 8°.3/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 42.11	− 2 33.8	1.491	2.281	18.3	15.7
1 2	8 37.92	− 2 47.3	1.435	2.295	15.1	15.5
1 12	8 31.48	− 2 31.8	1.398	2.311	11.7	15.4
1 22	8 23.68	− 1 47.0	1.385	2.327	9.0	15.2
2 1	8 15.67	− 0 36.2	1.396	2.345	8.4	15.3
2 11	8 8.67	+ 0 53.0	1.433	2.363	10.3	15.4
2 21	8 3.66	+ 2 31.4	1.494	2.382	13.2	15.6
3 2	8 1.26	+ 4 10.3	1.577	2.402	16.2	15.9

406852 2009 BT_{35} 1 24.0 18°.50 1°.9/23.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.57	+20 39.5	1.395	2.252	15.7	20.7
1 2	8 42.33	+21 36.2	1.331	2.253	11.3	20.5
1 12	8 34.20	+22 41.3	1.290	2.255	6.4	20.2
1 22	8 24.18	+23 47.2	1.275	2.257	2.0	19.9
2 1	8 13.71	+24 45.7	1.287	2.260	5.3	20.2
2 11	8 4.44	+25 30.8	1.325	2.263	10.2	20.4
2 21	7 57.64	+25 59.9	1.387	2.266	14.7	20.7
3 2	7 54.12	+26 13.4	1.469	2.269	18.4	21.0

396069 2013 CA_{73} 1 24.0 255°.04 2°.1/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.21	+11 47.0	1.587	2.419	15.4	21.2
1 2	8 41.84	+12 13.8	1.505	2.410	11.5	20.9
1 12	8 33.87	+12 56.9	1.445	2.402	7.1	20.6
1 22	8 24.13	+13 52.8	1.412	2.393	2.7	20.3
2 1	8 13.82	+14 55.9	1.408	2.384	4.2	20.4
2 11	8 4.35	+15 59.9	1.431	2.374	8.9	20.7
2 21	7 56.94	+16 59.0	1.479	2.365	13.4	20.9
3 2	7 52.44	+17 49.5	1.548	2.356	17.3	21.1

123246 2000 UO_{65} 1 24.0 30°.14 2°.1/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.07	+13 10.4	1.757	2.589	14.1	19.7
1 2	8 40.63	+13 10.0	1.687	2.592	10.5	19.5
1 12	8 32.99	+13 20.7	1.640	2.596	6.4	19.2
1 22	8 23.96	+13 40.4	1.619	2.599	2.5	19.0
2 1	8 14.64	+14 5.6	1.628	2.603	3.9	19.1
2 11	8 6.23	+14 32.5	1.664	2.607	8.0	19.3
2 21	7 59.71	+14 57.9	1.726	2.611	11.9	19.6
3 2	7 55.73	+15 19.3	1.809	2.615	15.2	19.8

168966 2001 BC_{38} 1 24.0 305°.86 0°.2/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.34	+15 43.3	1.536	2.380	15.2	19.9
1 2	8 41.27	+16 29.7	1.460	2.375	11.1	19.6
1 12	8 33.57	+17 29.6	1.407	2.370	6.3	19.3
1 22	8 24.08	+18 37.5	1.381	2.365	1.2	18.9
2 1	8 14.07	+19 46.3	1.384	2.360	4.2	19.1
2 11	8 4.99	+20 49.2	1.413	2.355	9.2	19.4
2 21	7 58.07	+21 41.4	1.467	2.351	13.7	19.7
3 2	7 54.12	+22 20.9	1.542	2.346	17.5	19.9

90833 1995 UQ_{18} 1 24.0 250°.30 5°.8/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.41	+ 1 33.1	2.118	2.899	13.9	20.1
1 2	8 39.24	+ 1 19.6	2.027	2.889	11.2	19.9
1 12	8 32.16	+ 1 24.0	1.959	2.879	8.4	19.7
1 22	8 23.82	+ 1 46.9	1.918	2.869	6.2	19.6
2 1	8 15.08	+ 2 26.7	1.905	2.859	6.1	19.6
2 11	8 6.93	+ 3 19.8	1.920	2.848	8.2	19.7
2 21	8 0.22	+ 4 21.1	1.962	2.837	11.2	19.8
3 2	7 55.63	+ 5 25.3	2.027	2.826	14.1	20.0

300325 2007 QL_{4} 1 24.0 83°.11 5°.6/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.15	+ 3 25.1	1.649	2.444	16.6	20.6
1 2	8 43.35	+ 3 18.5	1.601	2.476	13.0	20.5
1 12	8 34.37	+ 3 32.9	1.576	2.507	9.2	20.3
1 22	8 24.18	+ 4 6.7	1.577	2.537	6.1	20.2
2 1	8 13.96	+ 4 56.2	1.605	2.567	6.1	20.2
2 11	8 4.94	+ 5 55.5	1.662	2.596	8.8	20.5
2 21	7 58.00	+ 6 58.4	1.745	2.624	12.1	20.7
3 2	7 53.71	+ 7 59.4	1.850	2.652	15.1	21.0

145813 1998 SJ_{125} 1 24.0 114°.46 4°.8/21.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 52.39	+30 49.0	1.906	2.747	12.8	20.5
1 2	8 45.17	+31 48.6	1.854	2.763	9.5	20.3
1 12	8 35.51	+32 43.5	1.827	2.779	6.3	20.1
1 22	8 24.39	+33 26.7	1.828	2.794	4.8	20.1
2 1	8 13.12	+33 52.9	1.859	2.809	6.5	20.2
2 11	8 3.04	+34 0.1	1.917	2.823	9.6	20.4
2 21	7 55.19	+33 49.8	2.001	2.837	12.7	20.6
3 2	7 50.20	+33 25.4	2.105	2.850	15.3	20.8

417589 2006 VQ_{55} 1 24.0 130°.09 0°.2/23.9 18

12 23	8 48.31	+18 0.1	1.954	2.787	12.8	22.3
1 2	8 42.07	+18 29.7	1.887	2.797	9.3	22.1
1 12	8 33.73	+19 6.2	1.846	2.807	5.2	21.9
1 22	8 24.09	+19 45.2	1.833	2.816	0.9	21.6
2 1	8 14.22	+20 22.4	1.850	2.825	3.5	21.8
2 11	8 5.26	+20 54.0	1.896	2.834	7.6	22.1
2 21	7 58.13	+21 17.9	1.969	2.842	11.3	22.3
3 2	7 53.44	+21 33.3	2.064	2.849	14.3	22.6

245044 2004 FU_{24} 1 24.0 214°.65 0°.7/24.4 17

12 23	8 45.36	+16 49.7	2.453	3.279	10.8	20.6
1 2	8 39.65	+16 50.2	2.371	3.277	7.9	20.4
1 12	8 32.27	+16 56.1	2.316	3.274	4.6	20.2
1 22	8 23.84	+17 5.2	2.289	3.272	1.1	19.9
2 1	8 15.18	+17 15.3	2.294	3.270	2.9	20.1
2 11	8 7.17	+17 24.2	2.328	3.267	6.3	20.3
2 21	8 0.53	+17 30.5	2.390	3.264	9.5	20.5
3 2	7 55.83	+17 33.1	2.476	3.261	12.2	20.7

343665 2010 NM_{74} 1 24.0 38°.71 12°.3/31.6 18

12 23	8 44.70	−15 53.8	2.113	2.787	17.0	20.5
1 2	8 39.40	−17 26.1	2.049	2.796	15.4	20.3
1 12	8 32.22	−18 31.6	2.005	2.805	13.8	20.2
1 22	8 23.84	−19 6.0	1.982	2.815	12.7	20.2
2 1	8 15.17	−19 7.4	1.981	2.825	12.3	20.2
2 11	8 7.20	−18 37.9	2.003	2.835	12.8	20.2
2 21	8 0.79	−17 43.0	2.047	2.846	13.9	20.3
3 2	7 56.54	−16 30.0	2.111	2.857	15.3	20.4

357013 1999 VL_{89} 1 24.0 109°.43 0°.2/24.1 18

12 23	8 50.21	+17 13.0	1.837	2.669	13.6	21.2
1 2	8 43.42	+17 39.3	1.779	2.688	9.8	21.0
1 12	8 34.46	+18 13.0	1.746	2.707	5.5	20.8
1 22	8 24.21	+18 49.9	1.742	2.725	1.0	20.5
2 1	8 13.83	+19 25.3	1.768	2.743	3.6	20.8
2 11	8 4.51	+19 55.5	1.822	2.760	7.8	21.1
2 21	7 57.19	+20 18.4	1.903	2.777	11.5	21.3
3 2	7 52.45	+20 33.4	2.007	2.793	14.6	21.6

50642 2000 EK_{86} 1 24.0 184°.61 1°.9/24.9 18

12 23	8 47.45	+13 22.7	1.845	2.673	13.8	18.9
1 2	8 41.60	+13 28.1	1.769	2.673	10.2	18.6
1 12	8 33.55	+13 44.3	1.717	2.673	6.2	18.4
1 22	8 24.08	+14 8.8	1.692	2.673	2.3	18.1
2 1	8 14.28	+14 38.1	1.697	2.672	3.7	18.2
2 11	8 5.33	+15 8.3	1.730	2.672	7.9	18.5
2 21	7 58.21	+15 36.2	1.789	2.671	11.8	18.7
3 2	7 53.61	+15 59.5	1.871	2.670	15.1	18.9

287599 2003 FM_{132} 1 24.0 157°.36 4°.9/27.1 18

12 23	8 44.84	+ 3 24.9	2.069	2.859	13.8	21.2
1 2	8 39.49	+ 3 25.6	1.991	2.862	10.9	21.0
1 12	8 32.27	+ 3 44.0	1.936	2.865	7.9	20.8
1 22	8 23.86	+ 4 19.4	1.908	2.867	5.4	20.6
2 1	8 15.15	+ 5 9.1	1.909	2.870	5.3	20.6
2 11	8 7.13	+ 6 8.6	1.938	2.872	7.8	20.8
2 21	8 0.65	+ 7 12.7	1.994	2.873	10.9	21.0
3 2	7 56.31	+ 8 16.5	2.074	2.875	13.7	21.2

83395 2001 SP_{27} 1 24.0 330°.32 2°.3/25.4 18

12 23	8 42.92	+11 14.9	2.082	2.905	12.6	19.6
1 2	8 38.17	+11 28.0	2.000	2.899	9.4	19.3
1 12	8 31.56	+11 53.0	1.941	2.894	5.9	19.1
1 22	8 23.74	+12 27.9	1.911	2.889	2.7	18.9
2 1	8 15.58	+13 9.4	1.909	2.884	3.5	18.9
2 11	8 8.08	+13 53.4	1.937	2.879	7.1	19.2
2 21	8 2.08	+14 36.1	1.991	2.875	10.6	19.4
3 2	7 58.20	+15 14.7	2.068	2.871	13.7	19.6

327375 2005 UU_{324} 1 24.1 31°.59 1°.1/24.6 18

12 23	8 45.74	+14 55.0	1.630	2.471	14.6	21.1
1 2	8 40.55	+15 17.5	1.563	2.476	10.7	20.9
1 12	8 33.02	+15 51.5	1.520	2.481	6.2	20.7
1 22	8 23.99	+16 33.0	1.504	2.486	1.7	20.4
2 1	8 14.66	+17 17.0	1.515	2.492	3.8	20.5
2 11	8 6.33	+17 58.4	1.554	2.498	8.4	20.8
2 21	8 0.01	+18 33.8	1.618	2.505	12.5	21.1
3 2	7 56.40	+19 0.9	1.704	2.511	16.0	21.3

25871 2000 LZ_{26} 1 24.1 270°.51 3°.2/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 48.59	+11 41.8	1.886	2.705	13.8	17.4
1 2	8 42.46	+11 10.0	1.796	2.693	10.5	17.2
1 12	8 34.08	+10 47.7	1.731	2.681	6.8	16.9
1 22	8 24.19	+10 34.7	1.693	2.669	3.6	16.7
2 1	8 13.85	+10 29.7	1.685	2.656	4.5	16.7
2 11	8 4.27	+10 30.7	1.705	2.644	8.2	16.9
2 21	7 56.47	+10 35.3	1.751	2.631	12.1	17.1
3 2	7 51.20	+10 41.2	1.820	2.618	15.5	17.3

16500 1990 SX_{10} 1 24.1 130°.45 0°.5/23.8 18

12 23	8 52.13	+20 6.1	1.582	2.424	14.9	17.4
1 2	8 45.23	+20 15.2	1.517	2.431	10.8	17.1
1 12	8 35.66	+20 29.3	1.475	2.438	6.1	16.9
1 22	8 24.45	+20 44.0	1.461	2.444	1.1	16.5
2 1	8 12.98	+20 55.1	1.475	2.450	4.2	16.8
2 11	8 2.74	+20 59.6	1.517	2.456	9.0	17.1
2 21	7 54.86	+20 56.6	1.584	2.461	13.3	17.3
3 2	7 50.04	+20 46.6	1.673	2.467	16.8	17.6

408205 2013 EM_{43} 1 24.1 260°.28 4°.1/26.2 18

12 23	8 46.34	+ 7 15.0	1.645	2.462	15.7	21.6
1 2	8 41.13	+ 7 25.6	1.560	2.453	12.1	21.3
1 12	8 33.46	+ 7 55.4	1.498	2.443	8.1	21.1
1 22	8 24.10	+ 8 42.9	1.461	2.433	4.6	20.9
2 1	8 14.20	+ 9 44.2	1.452	2.424	5.1	20.9
2 11	8 5.07	+10 53.0	1.471	2.414	8.9	21.1
2 21	7 57.87	+12 2.8	1.516	2.404	13.1	21.3
3 2	7 53.41	+13 8.4	1.582	2.393	16.8	21.5

194209 2001 TJ_{104} 1 24.1 44°.23 1°.5/24.7 18

12 23	8 48.35	+14 29.1	1.150	2.005	18.4	19.9
1 2	8 42.94	+14 48.4	1.104	2.022	13.5	19.6
1 12	8 34.50	+15 22.9	1.078	2.040	7.8	19.4
1 22	8 24.25	+16 7.3	1.077	2.059	2.2	19.1
2 1	8 13.87	+16 54.6	1.101	2.078	4.6	19.3
2 11	8 5.05	+17 38.3	1.150	2.098	10.1	19.7
2 21	7 59.03	+18 14.0	1.222	2.118	14.9	20.0
3 2	7 56.46	+18 39.5	1.314	2.139	18.8	20.3

109517 2001 QR_{238} 1 24.1 183°.51 3°.0/22.1 18

12 23	8 47.59	+29 14.5	2.692	3.526	9.7	19.9
1 2	8 41.22	+29 44.5	2.618	3.526	7.1	19.8
1 12	8 33.14	+30 12.0	2.571	3.526	4.5	19.6
1 22	8 24.01	+30 32.8	2.554	3.525	3.0	19.5
2 1	8 14.68	+30 43.9	2.568	3.525	4.5	19.6
2 11	8 6.05	+30 43.7	2.611	3.524	7.1	19.7
2 21	7 58.88	+30 32.4	2.682	3.522	9.7	19.9
3 2	7 53.71	+30 11.6	2.776	3.520	12.0	20.1

363771 2005 EX_{143} 1 24.1 243°.06 1°.4/23.3 13 C

12 23	8 49.44	+21 32.9	1.921	2.760	12.8	22.4
1 2	8 43.21	+22 5.6	1.834	2.747	9.3	22.1
1 12	8 34.58	+22 43.1	1.771	2.733	5.3	21.9
1 22	8 24.30	+23 20.5	1.737	2.719	1.5	21.6
2 1	8 13.51	+23 52.5	1.732	2.704	4.2	21.7
2 11	8 3.49	+24 15.6	1.756	2.689	8.5	22.0
2 21	7 55.34	+24 28.0	1.807	2.673	12.4	22.2
3 2	7 49.86	+24 30.0	1.879	2.657	15.8	22.4

255990 2006 TG_{98} 1 24.1 150°.77 5°.9/27.5 18

12 23	8 46.53	+ 1 35.9	2.023	2.803	14.5	21.7
1 2	8 40.72	+ 1 21.1	1.947	2.809	11.6	21.5
1 12	8 32.98	+ 1 24.8	1.895	2.815	8.6	21.3
1 22	8 24.02	+ 1 47.3	1.870	2.821	6.3	21.2
2 1	8 14.77	+ 2 26.6	1.872	2.826	6.2	21.2
2 11	8 6.28	+ 3 18.6	1.903	2.831	8.3	21.3
2 21	7 59.40	+ 4 18.0	1.961	2.835	11.3	21.5
3 2	7 54.74	+ 5 19.4	2.042	2.839	14.1	21.7

412392 2013 RV_{85} 1 24.1 100°.72 2°.7/25.6 18

12 23	8 45.49	+10 38.1	2.125	2.940	12.6	20.6
1 2	8 39.88	+10 36.9	2.054	2.948	9.5	20.4
1 12	8 32.46	+10 46.9	2.007	2.957	6.0	20.2
1 22	8 23.93	+11 6.4	1.989	2.965	3.0	20.1
2 1	8 15.19	+11 32.9	2.000	2.972	3.7	20.1
2 11	8 7.21	+12 2.9	2.040	2.980	7.0	20.3
2 21	8 0.78	+12 33.4	2.108	2.988	10.3	20.6
3 2	7 56.47	+13 1.6	2.198	2.996	13.2	20.8

101995 1999 RZ_{71} 1 24.1 121°.61 2°.6/22.7 18

12 23	8 52.06	+24 54.2	1.856	2.696	13.1	20.6
1 2	8 44.88	+25 34.6	1.799	2.712	9.5	20.4
1 12	8 35.36	+26 15.5	1.767	2.727	5.5	20.2
1 22	8 24.43	+26 51.0	1.763	2.742	2.6	20.0
2 1	8 13.35	+27 16.2	1.789	2.756	4.9	20.2
2 11	8 3.41	+27 28.4	1.844	2.769	8.7	20.4
2 21	7 55.61	+27 27.9	1.924	2.782	12.2	20.7
3 2	7 50.57	+27 16.4	2.027	2.794	15.1	20.9

204568 2005 EK_{309} 1 24.1 141°.08 0°.1/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 45.60	+17 58.3	2.302	3.133	11.3	21.2
1 2	8 39.92	+18 16.2	2.228	3.137	8.1	21.0
1 12	8 32.48	+18 39.7	2.180	3.140	4.6	20.8
1 22	8 23.94	+19 5.8	2.161	3.144	0.8	20.5
2 1	8 15.18	+19 31.1	2.172	3.147	3.0	20.7
2 11	8 7.13	+19 52.8	2.213	3.151	6.7	20.9
2 21	8 0.56	+20 9.3	2.281	3.154	9.9	21.1
3 2	7 56.06	+20 19.6	2.373	3.157	12.7	21.3

201830 2003 YX_{49} 1 24.1 65°.21 0°.9/23.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.49	+20 18.7	2.078	2.918	11.9	20.1
1 2	8 40.02	+20 52.0	2.009	2.924	8.6	19.9
1 12	8 32.60	+21 30.1	1.966	2.929	4.8	19.7
1 22	8 23.97	+22 8.8	1.952	2.935	1.1	19.5
2 1	8 15.09	+22 43.8	1.967	2.940	3.6	19.7
2 11	8 7.01	+23 11.8	2.010	2.946	7.4	19.9
2 21	8 0.61	+23 30.9	2.081	2.951	10.8	20.1
3 2	7 56.46	+23 40.9	2.174	2.957	13.7	20.3

242985 2006 SK_{278} 1 24.1 11°.92 3°.6/22.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.66	+29 44.5	2.246	3.087	11.1	20.1
1 2	8 41.56	+30 13.1	2.177	3.088	8.2	19.9
1 12	8 33.45	+30 38.4	2.133	3.088	5.2	19.7
1 22	8 24.11	+30 55.8	2.118	3.089	3.6	19.6
2 1	8 14.56	+31 1.4	2.132	3.090	5.2	19.7
2 11	8 5.89	+30 53.9	2.175	3.091	8.1	19.9
2 21	7 58.96	+30 34.0	2.244	3.092	11.1	20.1
3 2	7 54.36	+30 3.7	2.335	3.093	13.7	20.3

206834 2004 EA_{55} 1 24.1 306°.53 3°.8/25.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.67	+ 9 1.9	2.063	2.876	13.1	20.1
1 2	8 39.59	+ 8 35.6	1.962	2.853	10.1	19.9
1 12	8 32.48	+ 8 20.7	1.886	2.830	6.9	19.6
1 22	8 23.97	+ 8 17.0	1.836	2.806	4.1	19.4
2 1	8 14.97	+ 8 23.7	1.815	2.783	4.7	19.4
2 11	8 6.51	+ 8 38.3	1.823	2.761	7.8	19.6
2 21	7 59.54	+ 8 58.0	1.857	2.738	11.4	19.7
3 2	7 54.79	+ 9 19.5	1.913	2.716	14.7	19.9

163676 2002 XG_{62} 1 24.1 54°.13 2°.2/22.8 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.37	+24 34.7	2.077	2.921	11.8	19.8
1 2	8 40.65	+25 7.6	2.014	2.930	8.5	19.6
1 12	8 32.94	+25 41.6	1.977	2.939	4.9	19.4
1 22	8 24.03	+26 11.8	1.968	2.948	2.2	19.3
2 1	8 14.92	+26 34.3	1.988	2.957	4.3	19.4
2 11	8 6.71	+26 46.4	2.037	2.966	7.8	19.7
2 21	8 0.25	+26 47.8	2.113	2.975	11.1	19.9
3 2	7 56.13	+26 39.3	2.210	2.984	13.8	20.1

426977 2013 YX_{143} 1 24.1 321°.44 0°.9/23.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.36	+20 27.9	2.026	2.869	12.1	21.0
1 2	8 39.38	+20 56.8	1.944	2.859	8.7	20.8
1 12	8 32.34	+21 31.0	1.886	2.849	4.9	20.6
1 22	8 23.94	+22 6.4	1.857	2.840	1.1	20.3
2 1	8 15.17	+22 38.6	1.857	2.830	3.7	20.5
2 11	8 7.11	+23 4.1	1.885	2.821	7.7	20.7
2 21	8 0.70	+23 20.9	1.939	2.813	11.4	20.9
3 2	7 56.63	+23 28.6	2.016	2.805	14.5	21.1

414588 2009 US_{27} 1 24.1 287°.84 2°.4/22.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.73	+23 41.8	1.936	2.781	12.4	20.6
1 2	8 41.16	+24 33.1	1.864	2.780	9.0	20.4
1 12	8 33.36	+25 27.6	1.817	2.780	5.2	20.1
1 22	8 24.12	+26 19.5	1.799	2.779	2.4	20.0
2 1	8 14.52	+27 3.1	1.810	2.778	4.7	20.1
2 11	8 5.78	+27 34.6	1.850	2.777	8.5	20.3
2 21	7 58.88	+27 52.7	1.914	2.776	12.1	20.6
3 2	7 54.52	+27 58.0	2.001	2.776	15.1	20.8

242953 2006 SG_{5} 1 24.1 144°.86 7°.5/31.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 42.25	−13 32.9	3.267	3.929	11.7	21.8
1 2	8 37.08	−13 51.2	3.190	3.940	10.3	21.7
1 12	8 30.72	−13 50.8	3.134	3.951	8.9	21.6
1 22	8 23.65	−13 30.7	3.103	3.961	7.9	21.5
2 1	8 16.42	−12 51.2	3.099	3.971	7.5	21.5
2 11	8 9.64	−11 54.7	3.122	3.980	7.9	21.5
2 21	8 3.84	−10 45.1	3.172	3.989	9.0	21.6
3 2	7 59.44	− 9 27.1	3.246	3.997	10.3	21.7

297201 2011 BH_{100} 1 24.1 291°.09 4°.2/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.79	+ 7 23.0	1.916	2.727	14.0	21.1
1 2	8 39.76	+ 7 11.8	1.823	2.712	10.9	20.9
1 12	8 32.61	+ 7 15.6	1.754	2.696	7.5	20.6
1 22	8 24.01	+ 7 33.9	1.711	2.680	4.6	20.4
2 1	8 14.92	+ 8 4.8	1.696	2.664	4.9	20.4
2 11	8 6.46	+ 8 44.5	1.710	2.649	8.2	20.6
2 21	7 59.61	+ 9 28.6	1.749	2.633	11.8	20.7
3 2	7 55.12	+10 12.7	1.811	2.618	15.2	20.9

28003 1997 WT_{52} 1 24.1 272°.55 4°.8/20.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 46.79	+31 37.6	2.243	3.085	11.1	18.1
1 2	8 41.15	+32 46.2	2.169	3.078	8.3	17.9
1 12	8 33.36	+33 52.2	2.122	3.071	5.8	17.7
1 22	8 24.14	+34 48.8	2.103	3.064	4.8	17.7
2 1	8 14.52	+35 30.6	2.114	3.057	6.4	17.7
2 11	8 5.64	+35 54.7	2.152	3.050	9.1	17.9
2 21	7 58.50	+36 0.9	2.216	3.043	12.0	18.1
3 2	7 53.78	+35 51.5	2.300	3.036	14.4	18.2

320722 2008 DD_{82} 1 24.1 230°.65 3°.7/22.0 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.36	+28 30.7	2.028	2.869	12.2	21.9
1 2	8 43.82	+29 13.5	1.949	2.861	9.0	21.6
1 12	8 34.90	+29 54.8	1.896	2.852	5.6	21.4
1 22	8 24.42	+30 28.6	1.871	2.844	3.7	21.3
2 1	8 13.53	+30 49.6	1.876	2.834	5.6	21.4
2 11	8 3.51	+30 55.3	1.909	2.825	9.1	21.6
2 21	7 55.45	+30 45.9	1.967	2.815	12.4	21.8
3 2	7 50.06	+30 23.8	2.047	2.804	15.3	21.9

345669 2006 UM_{25} 1 24.1 187°.52 2°.8/21.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.96	+28 39.8	2.936	3.769	9.0	21.5
1 2	8 40.00	+29 17.1	2.860	3.768	6.6	21.4
1 12	8 32.47	+29 52.6	2.812	3.767	4.1	21.2
1 22	8 23.97	+30 22.6	2.794	3.766	2.8	21.1
2 1	8 15.26	+30 43.9	2.807	3.764	4.2	21.2
2 11	8 7.14	+30 54.7	2.851	3.762	6.6	21.4
2 21	8 0.31	+30 54.8	2.921	3.759	9.1	21.5
3 2	7 55.27	+30 45.1	3.015	3.756	11.2	21.7

335644 2006 KQ_{52} 1 24.1 163°.95 4°.6/27.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 43.85	+ 2 14.5	2.727	3.498	11.3	21.7
1 2	8 38.41	+ 2 1.5	2.646	3.503	9.1	21.5
1 12	8 31.56	+ 2 2.1	2.589	3.507	6.7	21.4
1 22	8 23.82	+ 2 16.2	2.561	3.510	4.9	21.3
2 1	8 15.87	+ 2 42.4	2.562	3.514	4.8	21.3
2 11	8 8.45	+ 3 18.1	2.593	3.517	6.6	21.4
2 21	8 2.19	+ 4 0.0	2.651	3.519	8.9	21.6
3 2	7 57.56	+ 4 44.4	2.735	3.521	11.2	21.7

522453 2016 CH_{320} 1 24.1 107°.59 3°.1/21.9 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.47	+26 14.8	2.242	3.084	11.1	21.2
1 2	8 40.72	+27 19.8	2.179	3.093	8.0	21.0
1 12	8 33.01	+28 25.4	2.144	3.102	4.9	20.8
1 22	8 24.08	+29 25.6	2.137	3.111	3.1	20.7
2 1	8 14.90	+30 15.4	2.161	3.120	4.9	20.9
2 11	8 6.50	+30 51.4	2.213	3.129	8.0	21.1
2 21	7 59.76	+31 12.8	2.292	3.137	11.0	21.3
3 2	7 55.27	+31 20.7	2.392	3.146	13.5	21.5

180973 2005 MS_{46} 1 24.1 235°.62 1°.6/25.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.98	+12 39.8	2.126	2.945	12.5	21.5
1 2	8 41.21	+13 1.9	2.032	2.932	9.3	21.3
1 12	8 33.39	+13 35.4	1.964	2.918	5.7	21.0
1 22	8 24.18	+14 17.6	1.924	2.904	2.1	20.8
2 1	8 14.50	+15 4.6	1.914	2.889	3.4	20.8
2 11	8 5.41	+15 52.3	1.934	2.874	7.3	21.1
2 21	7 57.86	+16 36.7	1.982	2.858	11.0	21.3
3 2	7 52.55	+17 15.5	2.053	2.842	14.2	21.4

338989 2004 FO_{145} 1 24.1 245°.66 3°.9/21.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.88	+31 0.7	2.358	3.197	10.8	20.8
1 2	8 41.72	+31 37.0	2.285	3.194	8.0	20.6
1 12	8 33.57	+32 9.5	2.239	3.191	5.3	20.4
1 22	8 24.19	+32 33.3	2.221	3.187	3.9	20.3
2 1	8 14.55	+32 44.5	2.232	3.184	5.4	20.4
2 11	8 5.72	+32 41.5	2.272	3.181	8.2	20.6
2 21	7 58.57	+32 24.9	2.339	3.178	11.0	20.7
3 2	7 53.72	+31 56.8	2.427	3.175	13.5	20.9

309328 2007 SB_{9} 1 24.1 25°.20 1°.4/23.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.09	+20 6.4	1.252	2.114	16.7	20.6
1 2	8 42.13	+20 47.0	1.196	2.121	12.1	20.3
1 12	8 34.17	+21 36.1	1.163	2.128	6.8	20.1
1 22	8 24.31	+22 26.6	1.154	2.137	1.7	19.8
2 1	8 14.13	+23 10.9	1.171	2.146	5.1	20.0
2 11	8 5.34	+23 43.5	1.213	2.156	10.4	20.3
2 21	7 59.22	+24 2.3	1.278	2.166	15.0	20.6
3 2	7 56.49	+24 7.6	1.363	2.177	18.9	20.9

139932 2001 RT_{131} 1 24.1 226°.16 2°.6/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 43.04	+ 9 9.5	2.362	3.172	11.7	19.9
1 2	8 38.09	+ 9 28.7	2.279	3.170	8.9	19.7
1 12	8 31.49	+10 0.3	2.221	3.168	5.7	19.5
1 22	8 23.83	+10 42.2	2.191	3.166	3.0	19.3
2 1	8 15.88	+11 31.5	2.191	3.164	3.4	19.3
2 11	8 8.51	+12 24.1	2.221	3.161	6.5	19.5
2 21	8 2.45	+13 16.3	2.279	3.159	9.6	19.7
3 2	7 58.28	+14 4.8	2.361	3.157	12.4	19.9

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
309278 2007 RZ_{139}			1 24.1 132°.55		0°.2/24.2 18	
	h m	° ′			°	m
12 23	8 50.60	+17 19.4	1.887	2.718	13.4	21.9
1 2	8 43.77	+17 44.5	1.823	2.731	9.7	21.7
1 12	8 34.75	+18 17.0	1.784	2.745	5.5	21.5
1 22	8 24.40	+18 52.6	1.774	2.758	1.0	21.2
2 1	8 13.84	+19 26.9	1.794	2.770	3.5	21.4
2 11	8 4.28	+19 56.2	1.843	2.781	7.8	21.7
2 21	7 56.66	+20 18.3	1.919	2.792	11.5	22.0
3 2	7 51.62	+20 32.7	2.017	2.802	14.6	22.2
259464 2003 SN_{117}			1 24.1 233°.35		1°.8/23.1 17	
12 23	8 51.30	+23 1.8	2.128	2.961	12.0	22.0
1 2	8 44.45	+23 36.3	2.035	2.945	8.7	21.8
1 12	8 35.29	+24 13.9	1.967	2.928	5.0	21.5
1 22	8 24.53	+24 49.6	1.929	2.910	1.9	21.3
2 1	8 13.24	+25 18.6	1.922	2.892	4.2	21.4
2 11	8 2.64	+25 37.6	1.945	2.872	8.2	21.6
2 21	7 53.79	+25 45.4	1.994	2.852	11.8	21.8
3 2	7 47.46	+25 42.7	2.066	2.830	15.0	22.0
427616 2003 SP_{429}			1 24.1 30°.87		5°.7/20.9 18	
12 23	8 48.65	+32 51.9	1.832	2.679	12.9	20.8
1 2	8 42.74	+33 51.6	1.774	2.685	9.8	20.6
1 12	8 34.31	+34 45.6	1.742	2.691	6.9	20.5
1 22	8 24.34	+35 26.5	1.736	2.697	5.7	20.4
2 1	8 14.11	+35 48.7	1.758	2.703	7.3	20.5
2 11	8 5.01	+35 50.3	1.807	2.710	10.3	20.7
2 21	7 58.13	+35 32.8	1.880	2.717	13.4	20.9
3 2	7 54.13	+34 59.9	1.973	2.724	16.0	21.1
352774 2008 UB_{58}			1 24.1 19°.13		4°.4/26.0 18	
12 23	8 45.40	+ 8 43.7	1.172	2.016	18.9	20.4
1 2	8 40.97	+ 8 42.7	1.112	2.020	14.5	20.2
1 12	8 33.57	+ 9 3.9	1.072	2.025	9.5	19.9
1 22	8 24.25	+ 9 45.5	1.055	2.031	5.1	19.7
2 1	8 14.52	+10 41.8	1.064	2.038	5.7	19.7
2 11	8 6.09	+11 45.1	1.096	2.045	10.3	20.0
2 21	8 0.24	+12 47.7	1.152	2.054	15.1	20.3
3 2	7 57.77	+13 43.8	1.226	2.063	19.2	20.6
13513 Manila			1 24.1 283°.59		4°.5/25.9 18	
12 23	8 47.79	+ 8 35.9	1.421	2.249	17.1	19.0
1 2	8 42.56	+ 8 22.0	1.339	2.237	13.2	18.8
1 12	8 34.49	+ 8 26.4	1.277	2.226	8.8	18.5
1 22	8 24.44	+ 8 48.6	1.240	2.214	5.0	18.2
2 1	8 13.73	+ 9 25.5	1.230	2.202	5.7	18.2
2 11	8 3.93	+10 11.9	1.246	2.190	10.0	18.4
2 21	7 56.37	+11 1.8	1.286	2.178	14.6	18.7
3 2	7 51.98	+11 49.7	1.346	2.166	18.7	18.9
301062 2008 UA_{103}			1 24.1 230°.14		4°.2/25.9 18	
12 23	8 48.98	+ 8 17.0	1.636	2.452	15.8	21.8
1 2	8 43.07	+ 8 5.9	1.553	2.445	12.2	21.5
1 12	8 34.63	+ 8 11.1	1.492	2.437	8.2	21.3
1 22	8 24.46	+ 8 32.0	1.458	2.429	4.7	21.1
2 1	8 13.76	+ 9 5.8	1.451	2.421	5.3	21.1
2 11	8 3.90	+ 9 47.9	1.472	2.412	9.1	21.3
2 21	7 56.07	+10 33.1	1.518	2.403	13.3	21.5
3 2	7 51.06	+11 17.0	1.586	2.394	17.0	21.7
117167 2004 RL_{12}			1 24.1 177°.83		4°.2/26.6 18	
12 23	8 45.52	+ 5 55.3	2.120	2.919	13.3	20.5
1 2	8 40.01	+ 5 48.5	2.040	2.920	10.4	20.3
1 12	8 32.64	+ 5 56.6	1.984	2.920	7.2	20.1
1 22	8 24.08	+ 6 18.8	1.956	2.921	4.6	20.0
2 1	8 15.23	+ 6 53.0	1.956	2.921	4.8	20.0
2 11	8 7.05	+ 7 35.4	1.985	2.921	7.5	20.2
2 21	8 0.38	+ 8 21.8	2.041	2.920	10.6	20.3
3 2	7 55.84	+ 9 8.1	2.121	2.920	13.5	20.5
175746 1998 QJ_{61}			1 24.1 81°.42		4°.4/22.7 17	
12 23	9 0.49	+31 37.8	1.737	2.570	14.3	20.9
1 2	8 50.78	+31 49.0	1.697	2.602	10.5	20.7
1 12	8 38.54	+31 51.9	1.682	2.634	6.7	20.5
1 22	8 25.06	+31 41.1	1.696	2.666	4.4	20.5
2 1	8 11.89	+31 13.8	1.739	2.697	6.1	20.6
2 11	8 0.49	+30 31.3	1.812	2.728	9.5	20.9
2 21	7 51.82	+29 37.6	1.911	2.757	12.8	21.2
3 2	7 46.35	+28 37.2	2.031	2.787	15.5	21.4
194546 2001 XH_{67}			1 24.1 357°.34		2°.2/24.8 18	
12 23	8 45.16	+14 45.8	1.081	1.945	18.7	19.5
1 2	8 41.12	+14 34.9	1.017	1.940	13.9	19.2
1 12	8 33.81	+14 38.5	0.974	1.937	8.4	18.9
1 22	8 24.33	+14 53.9	0.953	1.935	2.9	18.5
2 1	8 14.34	+15 16.4	0.956	1.934	5.1	18.7
2 11	8 5.71	+15 40.6	0.983	1.935	10.8	19.0
2 21	7 59.91	+16 1.8	1.031	1.937	16.1	19.3
3 2	7 57.79	+16 17.0	1.098	1.940	20.6	19.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
367384 2008 JO_{39}			1 24.1 140°.95		1°.1/24.9 18	
	h m	° ′			°	m
12 23	8 46.13	+12 48.9	2.298	3.115	11.8	21.7
1 2	8 40.32	+13 31.6	2.226	3.125	8.6	21.5
1 12	8 32.76	+14 24.7	2.180	3.135	5.1	21.3
1 22	8 24.11	+15 24.8	2.163	3.144	1.6	21.1
2 1	8 15.21	+16 27.3	2.178	3.153	3.0	21.2
2 11	8 7.00	+17 27.8	2.223	3.162	6.5	21.4
2 21	8 0.24	+18 22.7	2.296	3.170	9.8	21.7
3 2	7 55.51	+19 9.8	2.393	3.177	12.6	21.9
72213 2001 AU			1 24.1 299°.95		1°.5/23.3 18	
12 23	8 47.09	+22 18.9	1.900	2.744	12.7	19.0
1 2	8 41.52	+22 41.5	1.818	2.733	9.2	18.8
1 12	8 33.66	+23 7.5	1.760	2.723	5.2	18.5
1 22	8 24.29	+23 32.5	1.730	2.713	1.6	18.3
2 1	8 14.50	+23 52.1	1.730	2.702	4.2	18.4
2 11	8 5.53	+24 3.2	1.757	2.692	8.3	18.7
2 21	7 58.42	+24 4.7	1.810	2.682	12.2	18.9
3 2	7 53.88	+23 57.0	1.885	2.672	15.4	19.1
381680 2009 BR_{95}			1 24.1 342°.26		0°.9/23.4 18	
12 23	8 43.72	+18 50.1	2.086	2.926	11.9	20.4
1 2	8 38.89	+19 48.6	2.009	2.923	8.6	20.2
1 12	8 32.10	+20 54.9	1.958	2.921	4.8	20.0
1 22	8 24.02	+22 3.9	1.936	2.919	1.1	19.7
2 1	8 15.57	+23 10.0	1.943	2.916	3.7	19.9
2 11	8 7.81	+24 8.2	1.980	2.915	7.5	20.1
2 21	8 1.61	+24 55.5	2.043	2.913	11.0	20.4
3 2	7 57.63	+25 30.6	2.129	2.911	14.0	20.6
48921 1998 OK_{11}			1 24.1 258°.82		0°.8/24.5 18	
12 23	8 48.50	+14 50.7	1.430	2.273	16.2	18.5
1 2	8 43.09	+15 26.6	1.353	2.267	11.9	18.3
1 12	8 34.80	+16 17.3	1.299	2.260	6.9	18.0
1 22	8 24.53	+17 17.7	1.271	2.254	1.6	17.6
2 1	8 13.65	+18 21.0	1.270	2.247	4.3	17.8
2 11	8 3.77	+19 19.9	1.296	2.240	9.7	18.0
2 21	7 56.23	+20 9.7	1.347	2.234	14.5	18.3
3 2	7 51.92	+20 47.7	1.418	2.227	18.5	18.5
229566 2006 AP_{32}			1 24.1 160°.79		0°.8/24.6 18	
12 23	8 45.90	+14 46.7	2.358	3.180	11.3	21.2
1 2	8 40.15	+15 16.2	2.282	3.185	8.3	21.0
1 12	8 32.67	+15 54.0	2.232	3.189	4.8	20.8
1 22	8 24.11	+16 37.0	2.211	3.193	1.3	20.5
2 1	8 15.29	+17 21.6	2.221	3.197	2.9	20.7
2 11	8 7.13	+18 4.0	2.262	3.200	6.5	20.9
2 21	8 0.39	+18 41.6	2.330	3.203	9.7	21.1
3 2	7 55.64	+19 12.5	2.422	3.206	12.5	21.3
155630 2000 FS_{46}			1 24.1 228°.41		2°.8/22.6 18	
12 23	8 50.90	+23 24.1	1.724	2.568	13.8	20.6
1 2	8 44.61	+24 25.3	1.643	2.559	10.0	20.4
1 12	8 35.59	+25 31.7	1.587	2.549	5.9	20.1
1 22	8 24.67	+26 36.0	1.559	2.538	2.8	19.9
2 1	8 13.13	+27 30.8	1.560	2.527	5.4	20.0
2 11	8 2.47	+28 10.8	1.589	2.515	9.8	20.2
2 21	7 53.97	+28 34.4	1.643	2.503	13.8	20.5
3 2	7 48.50	+28 42.4	1.718	2.490	17.3	20.7
429251 2010 BJ_{25}			1 24.1 252°.67		6°.2/28.8 18	
12 23	8 42.27	− 2 53.5	2.493	3.244	12.8	21.6
1 2	8 37.53	− 2 57.4	2.400	3.236	10.6	21.4
1 12	8 31.21	− 2 42.5	2.330	3.228	8.4	21.3
1 22	8 23.87	− 2 8.4	2.287	3.219	6.6	21.1
2 1	8 16.20	− 1 16.3	2.271	3.211	6.3	21.1
2 11	8 9.02	− 0 10.0	2.285	3.202	7.7	21.2
2 21	8 3.03	+ 1 5.7	2.325	3.193	10.0	21.3
3 2	7 58.79	+ 2 25.4	2.390	3.184	12.4	21.4
314833 2006 UK_{107}			1 24.1 147°.66		1°.7/23.1 18	
12 23	8 48.62	+21 49.8	1.875	2.716	13.0	21.0
1 2	8 42.55	+22 35.9	1.806	2.721	9.3	20.8
1 12	8 34.20	+23 26.6	1.763	2.725	5.3	20.5
1 22	8 24.40	+24 16.2	1.747	2.729	1.8	20.3
2 1	8 14.27	+24 59.1	1.762	2.733	4.4	20.5
2 11	8 5.06	+25 31.3	1.805	2.736	8.4	20.7
2 21	7 57.79	+25 51.4	1.873	2.739	12.1	21.0
3 2	7 53.14	+25 59.7	1.964	2.742	15.2	21.2
473950 2016 EK_{179}			1 24.1 196°.45		0°.7/24.5 18	
12 23	8 45.94	+15 57.4	2.093	2.923	12.2	21.9
1 2	8 40.39	+16 15.3	2.015	2.923	8.9	21.7
1 12	8 32.90	+16 41.1	1.963	2.922	5.2	21.4
1 22	8 24.16	+17 11.9	1.939	2.921	1.3	21.1
2 1	8 15.13	+17 44.1	1.944	2.920	3.2	21.3
2 11	8 6.82	+18 14.0	1.979	2.919	7.1	21.5
2 21	8 0.12	+18 39.3	2.041	2.918	10.7	21.7
3 2	7 55.64	+18 58.3	2.125	2.917	13.8	22.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
420579 2012 HQ_{25}			1 24.1 309°.98		8°.9/18.9 18	
	h m	° ′			°	m
12 23	8 51.45	+38 44.1	1.638	2.482	14.4	20.7
1 2	8 45.51	+40 15.2	1.572	2.471	11.6	20.5
1 12	8 36.29	+41 36.7	1.530	2.461	9.4	20.3
1 22	8 24.80	+42 37.5	1.513	2.450	9.0	20.3
2 1	8 12.68	+43 9.2	1.522	2.440	10.7	20.3
2 11	8 1.82	+43 9.1	1.556	2.430	13.5	20.5
2 21	7 53.71	+42 40.4	1.610	2.421	16.5	20.6
3 2	7 49.28	+41 49.3	1.683	2.412	19.2	20.8
115564 2003 UC_{81}			1 24.1 181°.35		4°.6/20.8 18	
12 23	8 47.70	+31 4.7	2.262	3.102	11.1	19.1
1 2	8 41.79	+32 18.3	2.194	3.103	8.3	18.9
1 12	8 33.75	+33 29.3	2.153	3.103	5.7	18.8
1 22	8 24.32	+34 31.1	2.141	3.103	4.7	18.7
2 1	8 14.54	+35 18.0	2.159	3.103	6.2	18.8
2 11	8 5.52	+35 47.2	2.204	3.102	9.0	19.0
2 21	7 58.24	+35 58.6	2.275	3.102	11.7	19.2
3 2	7 53.37	+35 54.3	2.368	3.101	14.1	19.3
29187 Lemonnier			1 24.1 87°.89		1°.7/22.9 18	
12 23	8 45.67	+22 46.2	2.334	3.172	10.9	18.5
1 2	8 40.00	+23 32.9	2.274	3.187	7.8	18.4
1 12	8 32.57	+24 21.9	2.241	3.202	4.4	18.2
1 22	8 24.10	+25 8.9	2.237	3.218	1.8	18.0
2 1	8 15.45	+25 49.4	2.264	3.233	3.8	18.2
2 11	8 7.58	+26 20.6	2.320	3.248	7.0	18.4
2 21	8 1.24	+26 41.3	2.403	3.263	10.0	18.6
3 2	7 56.96	+26 51.6	2.509	3.277	12.5	18.8
413626 2005 UQ_{323}			1 24.1 34°.34		3°.3/22.3 18	
12 23	8 47.83	+25 32.9	1.737	2.587	13.4	20.5
1 2	8 42.19	+26 26.2	1.672	2.590	9.7	20.3
1 12	8 34.08	+27 21.0	1.632	2.593	5.8	20.1
1 22	8 24.39	+28 10.6	1.619	2.597	3.3	19.9
2 1	8 14.37	+28 48.7	1.635	2.600	5.5	20.1
2 11	8 5.38	+29 11.7	1.678	2.604	9.4	20.3
2 21	7 58.50	+29 19.2	1.746	2.608	13.1	20.6
3 2	7 54.45	+29 12.7	1.835	2.612	16.2	20.8
191259 2003 BL_{37}			1 24.1 40°.52		1°.9/24.9 17	
12 23	8 47.41	+12 36.2	1.051	1.909	19.6	19.3
1 2	8 42.48	+13 9.4	1.009	1.928	14.4	19.1
1 12	8 34.40	+14 2.2	0.987	1.949	8.5	18.8
1 22	8 24.44	+15 8.1	0.988	1.970	2.7	18.5
2 1	8 14.34	+16 18.3	1.014	1.992	4.8	18.7
2 11	8 5.89	+17 24.0	1.064	2.014	10.4	19.1
2 21	8 0.35	+18 19.1	1.137	2.038	15.4	19.5
3 2	7 58.36	+19 0.8	1.229	2.061	19.4	19.8
346817 2009 CG_{53}			1 24.1 313°.02		3°.8/21.6 18	
12 23	8 45.48	+28 27.8	2.158	3.004	11.3	20.5
1 2	8 40.26	+29 25.4	2.081	2.995	8.3	20.3
1 12	8 32.92	+30 22.5	2.029	2.986	5.3	20.0
1 22	8 24.19	+31 13.2	2.006	2.977	3.8	19.9
2 1	8 15.06	+31 52.2	2.012	2.968	5.6	20.0
2 11	8 6.67	+32 16.3	2.047	2.960	8.7	20.2
2 21	7 59.96	+32 24.8	2.106	2.952	11.8	20.4
3 2	7 55.64	+32 19.1	2.187	2.944	14.5	20.6
360104 2013 CG_{9}			1 24.1 42°.73		4°.4/26.0 18	
12 23	8 47.47	+ 8 32.6	1.369	2.199	17.5	20.2
1 2	8 42.17	+ 8 24.7	1.304	2.205	13.4	20.0
1 12	8 34.16	+ 8 36.0	1.261	2.211	8.8	19.7
1 22	8 24.42	+ 9 5.0	1.243	2.217	4.9	19.5
2 1	8 14.32	+ 9 47.7	1.251	2.223	5.5	19.6
2 11	8 5.36	+10 37.9	1.285	2.230	9.6	19.8
2 21	7 58.75	+11 29.6	1.343	2.237	14.0	20.1
3 2	7 55.22	+12 17.6	1.421	2.244	17.8	20.3
466868 2015 BF_{476}			1 24.1 156°.24		1°.5/25.2 18	
12 23	8 44.17	+11 56.4	2.444	3.259	11.2	21.4
1 2	8 38.88	+12 29.9	2.366	3.263	8.3	21.2
1 12	8 31.96	+13 13.9	2.314	3.267	5.0	21.0
1 22	8 24.01	+14 5.4	2.291	3.271	1.9	20.8
2 1	8 15.81	+15 0.8	2.299	3.274	2.9	20.9
2 11	8 8.20	+15 56.0	2.337	3.277	6.2	21.1
2 21	8 1.91	+16 47.6	2.403	3.280	9.3	21.3
3 2	7 57.48	+17 33.2	2.494	3.282	12.1	21.5
163609 2002 TC_{260}			1 24.1 57°.42		2°.5/25.6 18	
12 23	8 44.69	+10 40.5	2.014	2.834	13.1	20.1
1 2	8 39.39	+10 47.7	1.952	2.849	9.8	20.0
1 12	8 32.28	+11 7.0	1.914	2.864	6.2	19.8
1 22	8 24.06	+11 36.1	1.903	2.880	3.0	19.6
2 1	8 15.69	+12 11.9	1.922	2.895	3.7	19.7
2 11	8 8.14	+12 50.3	1.969	2.911	7.0	19.9
2 21	8 2.20	+13 27.9	2.043	2.927	10.4	20.1
3 2	7 58.42	+14 1.8	2.140	2.943	13.3	20.4

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
239725 2009 BO_{91}			1 24.1 181°.83		0°.4/23.8 17	
	h m	° ′			°	m
12 23	8 45.10	+19 53.0	2.644	3.474	10.0	21.2
1 2	8 39.47	+20 11.8	2.565	3.474	7.2	21.0
1 12	8 32.25	+20 34.1	2.513	3.474	4.0	20.8
1 22	8 24.06	+20 57.1	2.491	3.474	0.8	20.5
2 1	8 15.65	+21 18.1	2.499	3.474	2.8	20.7
2 11	8 7.84	+21 34.7	2.538	3.473	6.1	20.9
2 21	8 1.33	+21 45.5	2.605	3.472	9.1	21.1
3 2	7 56.64	+21 50.2	2.696	3.471	11.6	21.3
92628 2000 QF_{14}			1 24.1 54°.83		0°.2/24.0 18	
12 23	8 50.41	+18 8.3	1.270	2.123	17.1	19.6
1 2	8 44.32	+18 30.1	1.222	2.142	12.4	19.3
1 12	8 35.31	+19 1.3	1.197	2.161	6.9	19.1
1 22	8 24.60	+19 35.8	1.197	2.181	1.2	18.8
2 1	8 13.79	+20 7.8	1.224	2.200	4.5	19.0
2 11	8 4.51	+20 32.5	1.277	2.221	9.8	19.4
2 21	7 57.94	+20 47.8	1.353	2.241	14.3	19.7
3 2	7 54.70	+20 53.5	1.449	2.261	18.0	20.0
128220 2003 SN_{88}			1 24.1 193°.63		1°.2/23.4 18	
12 23	8 46.66	+21 31.5	2.239	3.076	11.3	20.0
1 2	8 40.87	+22 2.5	2.162	3.075	8.2	19.8
1 12	8 33.17	+22 37.1	2.112	3.074	4.6	19.6
1 22	8 24.24	+23 11.2	2.090	3.072	1.3	19.3
2 1	8 15.03	+23 40.9	2.098	3.071	3.6	19.5
2 11	8 6.54	+24 3.1	2.137	3.069	7.2	19.7
2 21	7 59.62	+24 16.5	2.201	3.067	10.6	19.9
3 2	7 54.90	+24 21.0	2.289	3.065	13.4	20.1
417072 2005 UN_{232}			1 24.1 63°.74		1°.4/24.8 18	
12 23	8 46.60	+14 21.1	1.811	2.643	13.8	21.7
1 2	8 41.06	+14 32.9	1.740	2.648	10.1	21.5
1 12	8 33.36	+14 55.1	1.694	2.652	6.0	21.2
1 22	8 24.28	+15 24.6	1.675	2.656	1.9	21.0
2 1	8 14.92	+15 57.5	1.684	2.661	3.6	21.1
2 11	8 6.44	+16 29.9	1.722	2.665	7.8	21.4
2 21	7 59.81	+16 58.4	1.786	2.669	11.7	21.6
3 2	7 55.67	+17 21.1	1.872	2.674	15.0	21.8
83755 2001 TS_{139}			1 24.1 51°.19		5°.2/20.9 18	
12 23	8 48.21	+33 24.0	2.113	2.954	11.7	18.8
1 2	8 42.19	+34 19.9	2.055	2.961	8.9	18.6
1 12	8 33.96	+35 10.0	2.022	2.968	6.3	18.5
1 22	8 24.38	+35 48.1	2.018	2.976	5.3	18.4
2 1	8 14.58	+36 9.3	2.042	2.983	6.7	18.5
2 11	8 5.77	+36 12.1	2.093	2.991	9.4	18.7
2 21	7 58.89	+35 57.6	2.169	2.999	12.1	18.9
3 2	7 54.57	+35 28.8	2.266	3.007	14.5	19.1
162944 2001 QH_{34}			1 24.1 87°.02		0°.2/24.2 18	
12 23	8 47.32	+18 28.3	2.273	3.102	11.4	19.3
1 2	8 41.11	+18 33.9	2.212	3.120	8.2	19.2
1 12	8 33.17	+18 44.0	2.177	3.137	4.7	19.0
1 22	8 24.23	+18 55.9	2.171	3.154	0.9	18.7
2 1	8 15.20	+19 6.9	2.195	3.171	3.0	18.9
2 11	8 7.01	+19 14.8	2.250	3.188	6.6	19.2
2 21	8 0.40	+19 18.5	2.332	3.205	9.8	19.4
3 2	7 55.87	+19 17.6	2.437	3.221	12.4	19.6
49273 1998 UY_{18}			1 24.1 30°.64		1°.5/24.7 18	
12 23	8 47.72	+15 8.4	1.495	2.338	15.6	19.1
1 2	8 42.21	+15 8.5	1.430	2.343	11.5	18.8
1 12	8 34.13	+15 19.6	1.388	2.348	6.8	18.6
1 22	8 24.44	+15 38.3	1.372	2.354	2.1	18.3
2 1	8 14.45	+16 0.8	1.383	2.360	4.1	18.4
2 11	8 5.58	+16 22.9	1.422	2.367	8.9	18.7
2 21	7 58.95	+16 41.4	1.484	2.374	13.2	19.0
3 2	7 55.26	+16 54.6	1.568	2.381	16.9	19.3
502705 2015 DC_{20}			1 24.1 172°.41		0°.9/24.8 18	
12 23	8 43.56	+13 41.6	2.466	3.287	10.9	21.0
1 2	8 38.47	+14 18.9	2.386	3.288	8.0	20.8
1 12	8 31.76	+15 5.6	2.332	3.289	4.7	20.6
1 22	8 24.01	+15 58.4	2.308	3.289	1.4	20.4
2 1	8 16.00	+16 53.7	2.314	3.290	2.8	20.5
2 11	8 8.55	+17 47.5	2.351	3.290	6.2	20.7
2 21	8 2.39	+18 36.4	2.415	3.291	9.3	20.9
3 2	7 58.09	+19 18.5	2.504	3.291	12.1	21.1
427297 2014 WQ_{253}			1 24.1 67°.13		10°.2/16.6 18	
12 23	8 53.22	+42 53.8	1.771	2.602	14.1	19.8
1 2	8 46.84	+45 6.5	1.725	2.606	11.8	19.7
1 12	8 37.09	+47 5.3	1.704	2.610	10.4	19.6
1 22	8 25.01	+48 38.2	1.709	2.614	10.5	19.6
2 1	8 12.29	+49 36.9	1.739	2.619	11.9	19.7
2 11	8 0.85	+49 59.5	1.793	2.623	14.1	19.9
2 21	7 52.26	+49 49.9	1.867	2.627	16.4	20.0
3 2	7 47.43	+49 15.0	1.958	2.632	18.4	20.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
491221 2011 UY_{181}			1 24.1 67°.16		5°.2/21.8 18	
	h m	° ′			°	m
12 23	8 52.39	+29 15.1	1.437	2.291	15.4	20.7
1 2	8 45.80	+30 19.0	1.390	2.308	11.3	20.5
1 12	8 36.20	+31 19.4	1.367	2.324	7.3	20.3
1 22	8 24.82	+32 7.2	1.370	2.341	5.2	20.3
2 1	8 13.29	+32 35.4	1.400	2.357	7.4	20.4
2 11	8 3.30	+32 41.7	1.456	2.374	11.2	20.7
2 21	7 56.07	+32 28.2	1.536	2.391	14.9	21.0
3 2	7 52.25	+31 59.0	1.634	2.408	18.0	21.2
229590 2006 BU_{162}			1 24.1 295°.84		0°.3/24.3 18	
12 23	8 45.51	+16 32.7	1.950	2.786	12.8	20.4
1 2	8 40.28	+17 1.7	1.872	2.782	9.3	20.2
1 12	8 32.96	+17 39.5	1.818	2.779	5.3	20.0
1 22	8 24.26	+18 22.4	1.792	2.775	1.1	19.6
2 1	8 15.20	+19 5.8	1.795	2.771	3.4	19.8
2 11	8 6.89	+19 45.5	1.827	2.768	7.6	20.1
2 21	8 0.28	+20 18.4	1.885	2.764	11.4	20.3
3 2	7 56.04	+20 43.0	1.966	2.761	14.6	20.5
132138 2002 CA_{259}			1 24.1 280°.54		2°.5/25.1 18	
12 23	8 48.91	+13 14.4	1.579	2.413	15.4	20.3
1 2	8 43.29	+13 5.4	1.488	2.394	11.6	20.0
1 12	8 34.94	+13 8.3	1.419	2.375	7.2	19.7
1 22	8 24.66	+13 21.4	1.377	2.357	3.0	19.4
2 1	8 13.68	+13 41.5	1.362	2.338	4.5	19.4
2 11	8 3.50	+14 4.7	1.375	2.318	9.3	19.6
2 21	7 55.40	+14 27.4	1.412	2.299	13.9	19.9
3 2	7 50.31	+14 46.8	1.470	2.280	18.0	20.1
18695 1998 HH_{27}			1 24.1 53°.70		0°.1/24.1 18	
12 23	8 46.04	+17 0.3	1.788	2.628	13.6	18.4
1 2	8 40.71	+17 36.2	1.723	2.636	9.8	18.2
1 12	8 33.20	+18 21.2	1.681	2.643	5.6	18.0
1 22	8 24.31	+19 10.5	1.668	2.651	1.0	17.7
2 1	8 15.14	+19 58.9	1.683	2.659	3.6	17.9
2 11	8 6.88	+20 41.8	1.726	2.667	8.0	18.2
2 21	8 0.51	+21 16.1	1.795	2.675	11.8	18.4
3 2	7 56.66	+21 40.7	1.887	2.684	15.0	18.7
453870 2011 UO_{115}			1 24.1 106°.00		0°.9/23.7 15	
12 23	8 52.86	+20 17.3	1.749	2.585	14.0	22.5
1 2	8 45.50	+20 47.1	1.696	2.608	10.1	22.3
1 12	8 35.80	+21 21.6	1.668	2.630	5.6	22.1
1 22	8 24.75	+21 55.4	1.669	2.652	1.2	21.8
2 1	8 13.61	+22 23.9	1.699	2.673	4.0	22.1
2 11	8 3.69	+22 43.8	1.758	2.693	8.3	22.4
2 21	7 55.98	+22 54.2	1.843	2.713	12.1	22.6
3 2	7 51.05	+22 55.5	1.951	2.732	15.2	22.9
19061 2261 $T\text{-}_{2}$			1 24.1 45°.56		1°.3/23.6 18	
12 23	8 50.05	+20 46.7	1.277	2.135	16.8	18.0
1 2	8 44.15	+21 10.6	1.228	2.150	12.1	17.7
1 12	8 35.29	+21 40.6	1.201	2.166	6.8	17.5
1 22	8 24.68	+22 10.5	1.199	2.182	1.6	17.2
2 1	8 13.92	+22 34.1	1.224	2.199	4.9	17.5
2 11	8 4.70	+22 47.8	1.275	2.217	10.0	17.8
2 21	7 58.20	+22 50.5	1.349	2.235	14.5	18.1
3 2	7 55.07	+22 43.1	1.442	2.253	18.2	18.4
298864 2004 RW_{312}			1 24.1 123°.94		0°.6/23.8 18	
12 23	8 51.65	+19 34.4	1.621	2.462	14.7	21.3
1 2	8 44.92	+19 56.9	1.558	2.472	10.6	21.1
1 12	8 35.63	+20 25.7	1.519	2.482	6.0	20.9
1 22	8 24.75	+20 55.6	1.508	2.491	1.1	20.5
2 1	8 13.62	+21 21.6	1.525	2.500	4.1	20.8
2 11	8 3.66	+21 40.2	1.570	2.508	8.8	21.1
2 21	7 55.97	+21 49.9	1.641	2.517	13.0	21.3
3 2	7 51.25	+21 50.8	1.733	2.524	16.4	21.6
208424 2001 SF_{345}			1 24.1 93°.22		10°.1/15.8 18	
12 23	8 57.66	+53 5.1	2.487	3.264	12.2	20.1
1 2	8 49.52	+54 43.6	2.460	3.282	10.9	20.0
1 12	8 38.34	+56 2.6	2.458	3.301	10.2	20.0
1 22	8 25.24	+56 54.9	2.480	3.319	10.3	20.0
2 1	8 11.83	+57 16.2	2.527	3.336	11.1	20.1
2 11	7 59.83	+57 7.1	2.597	3.354	12.3	20.2
2 21	7 50.54	+56 32.4	2.687	3.371	13.6	20.4
3 2	7 44.71	+55 38.0	2.794	3.388	14.8	20.5
122881 2000 SB_{145}			1 24.1 162°.89		0°.1/24.1 18	
12 23	8 50.96	+17 55.4	1.973	2.801	13.0	21.0
1 2	8 44.11	+18 17.5	1.900	2.808	9.4	20.8
1 12	8 35.08	+18 46.1	1.853	2.813	5.3	20.5
1 22	8 24.66	+19 17.4	1.835	2.818	0.9	20.2
2 1	8 13.97	+19 47.2	1.847	2.823	3.5	20.4
2 11	8 4.17	+20 11.9	1.889	2.826	7.7	20.7
2 21	7 56.23	+20 29.8	1.958	2.829	11.4	20.9
3 2	7 50.82	+20 40.2	2.050	2.831	14.5	21.1

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
389161 2009 BG_{59}			1 24.1 246°.98		1°.5/22.9 18	
	h m	° ′			°	m
12 23	8 44.50	+20 29.3	2.346	3.183	10.9	20.9
1 2	8 39.37	+21 36.6	2.266	3.179	7.8	20.7
1 12	8 32.40	+22 50.1	2.212	3.174	4.4	20.5
1 22	8 24.20	+24 4.6	2.188	3.170	1.5	20.3
2 1	8 15.63	+25 14.6	2.195	3.165	3.7	20.5
2 11	8 7.63	+26 15.6	2.232	3.160	7.2	20.7
2 21	8 1.05	+27 4.8	2.296	3.155	10.4	20.9
3 2	7 56.52	+27 41.5	2.383	3.151	13.1	21.0
349504 2008 PQ_{11}			1 24.1 93°.35		0°.1/24.1 18	
12 23	8 53.34	+17 14.1	1.542	2.379	15.5	21.5
1 2	8 46.02	+17 52.3	1.495	2.407	11.2	21.3
1 12	8 36.16	+18 39.3	1.473	2.434	6.3	21.1
1 22	8 24.85	+19 29.0	1.477	2.461	1.1	20.8
2 1	8 13.49	+20 15.3	1.511	2.487	4.0	21.0
2 11	8 3.51	+20 53.7	1.573	2.512	8.8	21.4
2 21	7 55.95	+21 21.9	1.661	2.537	12.8	21.7
3 2	7 51.39	+21 39.7	1.770	2.561	16.1	22.0
94897 2001 YD_{8}			1 24.1 314°.55		0°.6/23.9 18	
12 23	8 50.14	+20 23.2	1.339	2.193	16.4	19.1
1 2	8 44.51	+20 26.2	1.262	2.183	12.0	18.8
1 12	8 35.74	+20 35.1	1.208	2.173	6.8	18.5
1 22	8 24.84	+20 45.2	1.179	2.163	1.3	18.1
2 1	8 13.34	+20 51.8	1.177	2.154	4.8	18.3
2 11	8 3.03	+20 51.3	1.201	2.145	10.3	18.6
2 21	7 55.34	+20 42.6	1.248	2.136	15.3	18.9
3 2	7 51.16	+20 26.3	1.314	2.128	19.5	19.1
469170 2015 NS_{23}			1 24.1 214°.70		0°.7/24.8 17	
12 23	8 40.80	+15 21.2	4.005	4.817	7.2	21.8
1 2	8 35.99	+15 26.1	3.912	4.810	5.3	21.6
1 12	8 30.20	+15 35.0	3.848	4.803	3.1	21.4
1 22	8 23.80	+15 46.7	3.814	4.795	1.0	21.3
2 1	8 17.24	+15 59.7	3.812	4.787	1.9	21.3
2 11	8 11.01	+16 12.7	3.841	4.779	4.1	21.5
2 21	8 5.55	+16 24.4	3.901	4.770	6.3	21.6
3 2	8 1.21	+16 34.0	3.986	4.761	8.1	21.8
419026 2009 QJ_{40}			1 24.1 94°.05		0°.1/24.2 18	
12 23	8 49.09	+17 33.8	2.047	2.877	12.5	21.9
1 2	8 42.53	+17 58.0	1.993	2.901	9.0	21.7
1 12	8 34.05	+18 28.4	1.964	2.925	5.1	21.5
1 22	8 24.48	+19 1.1	1.965	2.948	0.9	21.3
2 1	8 14.83	+19 32.4	1.995	2.971	3.2	21.5
2 11	8 6.14	+19 58.9	2.056	2.993	7.1	21.8
2 21	7 59.22	+20 19.0	2.143	3.015	10.5	22.0
3 2	7 54.61	+20 31.9	2.253	3.037	13.3	22.3
164141 2003 YP_{87}			1 24.1 13°.68		1°.7/25.1 18	
12 23	8 43.73	+13 9.7	1.758	2.594	14.0	19.4
1 2	8 39.09	+13 26.2	1.689	2.597	10.3	19.2
1 12	8 32.31	+13 54.8	1.643	2.601	6.2	18.9
1 22	8 24.20	+14 32.5	1.624	2.605	2.2	18.7
2 1	8 15.79	+15 15.2	1.634	2.610	3.6	18.8
2 11	8 8.23	+15 57.9	1.671	2.616	7.8	19.1
2 21	8 2.48	+16 37.0	1.733	2.622	11.7	19.3
3 2	7 59.16	+17 9.6	1.818	2.629	15.0	19.5
335942 2007 TC_{62}			1 24.1 115°.80		4°.5/27.1 18	
12 23	8 43.78	+ 3 49.7	2.423	3.208	12.2	21.2
1 2	8 38.58	+ 3 41.1	2.347	3.215	9.6	21.0
1 12	8 31.82	+ 3 46.9	2.296	3.222	6.9	20.9
1 22	8 24.10	+ 4 6.5	2.272	3.229	4.8	20.7
2 1	8 16.17	+ 4 38.3	2.277	3.236	4.8	20.7
2 11	8 8.84	+ 5 18.9	2.312	3.243	6.9	20.9
2 21	8 2.81	+ 6 4.5	2.374	3.249	9.5	21.1
3 2	7 58.59	+ 6 51.4	2.460	3.256	12.0	21.2
148811 2001 UX_{114}			1 24.1 77°.05		1°.6/23.3 18	
12 23	8 48.01	+21 43.0	1.785	2.630	13.4	20.4
1 2	8 42.25	+22 20.6	1.717	2.633	9.6	20.2
1 12	8 34.13	+23 2.9	1.673	2.636	5.4	20.0
1 22	8 24.53	+23 44.2	1.657	2.639	1.7	19.7
2 1	8 14.61	+24 19.5	1.670	2.642	4.3	19.9
2 11	8 5.65	+24 44.7	1.711	2.646	8.5	20.2
2 21	7 58.68	+24 58.6	1.778	2.649	12.4	20.4
3 2	7 54.40	+25 1.5	1.866	2.652	15.6	20.6
196513 2003 NA_{5}			1 24.1 243°.96		1°.2/23.5 18	
12 23	8 48.85	+22 16.6	2.381	3.212	10.9	20.9
1 2	8 42.50	+22 34.8	2.286	3.195	7.9	20.7
1 12	8 34.18	+22 55.4	2.218	3.179	4.5	20.4
1 22	8 24.55	+23 14.8	2.179	3.161	1.3	20.2
2 1	8 14.50	+23 29.7	2.171	3.143	3.5	20.3
2 11	8 5.07	+23 37.5	2.194	3.125	7.1	20.5
2 21	7 57.14	+23 37.3	2.244	3.106	10.5	20.7
3 2	7 51.38	+23 29.5	2.317	3.087	13.4	20.8

475012 2005 TR_{176} 1 24.1 244°.85 6°.2/29.6 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 42.60	− 8 3.2	3.440	4.139	10.5	23.4
1 2	8 37.50	− 8 15.8	3.327	4.117	9.1	23.3
1 12	8 31.16	− 8 12.7	3.238	4.095	7.6	23.2
1 22	8 24.00	− 7 53.0	3.176	4.072	6.5	23.1
2 1	8 16.54	− 7 16.8	3.142	4.048	6.2	23.0
2 11	8 9.36	− 6 26.1	3.137	4.024	7.0	23.0
2 21	8 3.02	− 5 24.1	3.160	3.999	8.5	23.1
3 2	7 57.97	− 4 14.7	3.209	3.973	10.1	23.2

338188 2002 RW_{200} 1 24.1 163°.14 3°.8/22.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.05	+26 20.7	1.680	2.523	14.2	21.7
1 2	8 46.85	+27 22.7	1.615	2.529	10.3	21.5
1 12	8 36.84	+28 25.6	1.576	2.534	6.3	21.3
1 22	8 25.03	+29 21.1	1.564	2.539	3.8	21.1
2 1	8 12.83	+30 2.1	1.581	2.543	6.1	21.3
2 11	8 1.81	+30 25.1	1.626	2.546	10.1	21.5
2 21	7 53.19	+30 30.2	1.696	2.548	13.9	21.8
3 2	7 47.75	+30 20.0	1.786	2.550	17.0	22.0

119483 2001 UH_{47} 1 24.1 255°.35 0°.3/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.76	+16 33.9	1.820	2.657	13.5	20.0
1 2	8 41.31	+17 2.8	1.745	2.656	9.8	19.8
1 12	8 33.61	+17 41.1	1.694	2.655	5.6	19.5
1 22	8 24.46	+18 24.5	1.671	2.654	1.1	19.2
2 1	8 14.93	+19 8.3	1.677	2.654	3.6	19.4
2 11	8 6.25	+19 47.9	1.712	2.653	8.0	19.6
2 21	7 59.42	+20 20.2	1.772	2.652	11.9	19.9
3 2	7 55.13	+20 43.7	1.855	2.651	15.3	20.1

425364 2010 BQ_{97} 1 24.1 258°.60 3°.0/22.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.24	+28 34.3	2.382	3.219	10.7	21.2
1 2	8 42.02	+28 56.9	2.303	3.213	7.8	21.0
1 12	8 33.86	+29 17.1	2.250	3.207	4.9	20.8
1 22	8 24.49	+29 30.7	2.226	3.200	3.0	20.7
2 1	8 14.85	+29 34.2	2.233	3.194	4.7	20.8
2 11	8 5.97	+29 26.2	2.268	3.187	7.7	20.9
2 21	7 58.72	+29 7.0	2.330	3.180	10.6	21.1
3 2	7 53.69	+28 38.3	2.415	3.174	13.2	21.3

168130 2006 GD_{28} 1 24.1 194°.21 1°.5/23.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.35	+21 31.1	2.073	2.906	12.2	21.3
1 2	8 43.75	+22 12.3	1.993	2.904	8.8	21.1
1 12	8 34.95	+22 57.9	1.940	2.901	5.0	20.9
1 22	8 24.70	+23 42.9	1.916	2.898	1.6	20.6
2 1	8 14.06	+24 22.2	1.922	2.893	4.0	20.8
2 11	8 4.21	+24 52.1	1.958	2.888	7.9	21.0
2 21	7 56.13	+25 11.2	2.021	2.882	11.5	21.2
3 2	7 50.53	+25 19.6	2.106	2.876	14.6	21.4

212442 2006 PQ_{23} 1 24.1 225°.93 0°.4/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.05	+18 29.0	1.929	2.764	13.0	21.4
1 2	8 42.98	+19 1.9	1.844	2.755	9.4	21.2
1 12	8 34.59	+19 42.4	1.784	2.746	5.4	20.9
1 22	8 24.65	+20 25.9	1.753	2.736	1.0	20.6
2 1	8 14.22	+21 7.6	1.751	2.726	3.7	20.7
2 11	8 4.55	+21 43.1	1.778	2.715	8.1	21.0
2 21	7 56.69	+22 10.0	1.832	2.704	12.0	21.2
3 2	7 51.39	+22 27.2	1.908	2.692	15.4	21.4

496657 2016 AY_{183} 1 24.1 224°.37 0°.4/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.70	+18 50.5	2.109	2.936	12.3	20.9
1 2	8 43.89	+18 38.6	2.023	2.930	9.0	20.7
1 12	8 34.97	+18 30.5	1.963	2.923	5.1	20.4
1 22	8 24.70	+18 23.6	1.932	2.915	1.0	20.1
2 1	8 14.10	+18 16.0	1.932	2.908	3.3	20.3
2 11	8 4.30	+18 5.9	1.962	2.900	7.4	20.5
2 21	7 56.23	+17 52.6	2.019	2.892	11.0	20.7
3 2	7 50.56	+17 36.1	2.099	2.883	14.2	20.9

360763 2005 AN_{1} 1 24.1 20°.53 1°.3/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.09	+16 36.5	1.429	2.274	16.1	20.1
1 2	8 44.10	+16 24.5	1.362	2.275	11.8	19.9
1 12	8 35.33	+16 21.3	1.317	2.277	6.9	19.6
1 22	8 24.78	+16 24.1	1.297	2.280	1.9	19.3
2 1	8 13.88	+16 29.4	1.305	2.282	4.2	19.5
2 11	8 4.18	+16 34.1	1.340	2.285	9.3	19.7
2 21	7 56.91	+16 36.1	1.399	2.288	13.9	20.0
3 2	7 52.80	+16 34.1	1.478	2.291	17.7	20.3

170201 2003 OR_{19} 1 24.1 224°.00 4°.5/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.68	+ 6 1.8	1.851	2.653	14.7	21.0
1 2	8 41.98	+ 6 2.4	1.763	2.646	11.5	20.8
1 12	8 34.03	+ 6 20.5	1.699	2.637	7.9	20.5
1 22	8 24.56	+ 6 55.4	1.661	2.629	4.9	20.3
2 1	8 14.60	+ 7 44.0	1.652	2.620	5.1	20.3
2 11	8 5.34	+ 8 41.6	1.672	2.610	8.4	20.5
2 21	7 57.81	+ 9 42.5	1.718	2.600	12.1	20.7
3 2	7 52.78	+10 41.9	1.786	2.589	15.5	20.9

166786 2002 VH_{37} 1 24.1 67°.59 0°.1/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 45.26	+17 14.8	2.087	2.922	12.1	19.8
1 2	8 39.87	+17 52.7	2.027	2.937	8.7	19.6
1 12	8 32.63	+18 38.0	1.992	2.953	4.9	19.4
1 22	8 24.28	+19 26.3	1.985	2.968	0.9	19.1
2 1	8 15.74	+20 13.2	2.008	2.984	3.2	19.3
2 11	8 8.02	+20 54.9	2.061	2.999	7.0	19.6
2 21	8 1.92	+21 28.7	2.140	3.015	10.4	19.8
3 2	7 57.99	+21 53.7	2.242	3.030	13.2	20.0

411331 2010 UM_{36} 1 24.1 75°.81 4°.5/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.05	+ 8 16.3	1.733	2.544	15.2	20.6
1 2	8 43.43	+ 7 41.6	1.677	2.565	11.7	20.4
1 12	8 34.66	+ 7 21.2	1.644	2.585	7.9	20.2
1 22	8 24.64	+ 7 15.0	1.637	2.606	4.9	20.1
2 1	8 14.52	+ 7 21.1	1.660	2.626	5.2	20.1
2 11	8 5.49	+ 7 36.5	1.710	2.647	8.4	20.4
2 21	7 58.46	+ 7 57.2	1.786	2.667	11.8	20.6
3 2	7 54.00	+ 8 19.6	1.885	2.687	14.9	20.9

104412 2000 FT_{56} 1 24.1 235°.91 1°.9/23.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.49	+22 22.9	1.996	2.836	12.4	20.6
1 2	8 42.57	+23 9.3	1.913	2.826	9.0	20.4
1 12	8 34.37	+24 0.3	1.855	2.817	5.1	20.1
1 22	8 24.62	+24 50.4	1.825	2.806	2.0	19.9
2 1	8 14.41	+25 34.2	1.826	2.796	4.4	20.0
2 11	8 4.93	+26 7.4	1.855	2.785	8.3	20.2
2 21	7 57.24	+26 28.4	1.910	2.773	12.0	20.4
3 2	7 52.09	+26 37.3	1.988	2.762	15.2	20.6

284435 2007 DZ_{62} 1 24.1 211°.44 0°.4/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.55	+17 31.3	1.718	2.553	14.2	21.3
1 2	8 44.30	+18 15.8	1.636	2.548	10.4	21.1
1 12	8 35.45	+19 10.5	1.580	2.541	5.9	20.8
1 22	8 24.83	+20 10.0	1.551	2.534	1.0	20.4
2 1	8 13.66	+21 7.8	1.551	2.527	4.1	20.6
2 11	8 3.35	+21 58.2	1.581	2.518	8.8	20.9
2 21	7 55.09	+22 37.9	1.636	2.509	13.1	21.1
3 2	7 49.71	+23 5.8	1.712	2.500	16.7	21.3

125782 2001 XW_{146} 1 24.1 107°.18 0°.5/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.17	+18 36.4	1.631	2.469	14.8	21.1
1 2	8 45.22	+19 8.4	1.576	2.488	10.6	20.8
1 12	8 35.78	+19 47.6	1.545	2.507	6.0	20.6
1 22	8 24.85	+20 28.5	1.541	2.525	1.1	20.3
2 1	8 13.77	+21 5.7	1.567	2.542	4.0	20.6
2 11	8 3.92	+21 35.1	1.621	2.559	8.6	20.9
2 21	7 56.33	+21 54.9	1.701	2.575	12.6	21.2
3 2	7 51.66	+22 5.0	1.802	2.591	15.9	21.4

397820 2008 SX_{53} 1 24.1 174°.45 0°.7/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.51	+15 55.4	1.638	2.472	14.9	22.1
1 2	8 44.21	+16 19.7	1.565	2.475	10.9	21.8
1 12	8 35.35	+16 54.5	1.516	2.476	6.3	21.6
1 22	8 24.80	+17 35.5	1.494	2.477	1.4	21.2
2 1	8 13.85	+18 17.4	1.501	2.478	3.9	21.4
2 11	8 3.90	+18 55.3	1.537	2.478	8.7	21.7
2 21	7 56.10	+19 26.0	1.598	2.478	13.0	21.9
3 2	7 51.21	+19 48.1	1.680	2.477	16.6	22.2

449582 2014 JO_{31} 1 24.1 267°.65 2°.1/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.79	+11 41.2	1.434	2.271	16.5	20.8
1 2	8 42.64	+12 14.1	1.354	2.262	12.4	20.6
1 12	8 34.66	+13 5.5	1.297	2.254	7.6	20.3
1 22	8 24.71	+14 11.4	1.265	2.246	2.8	20.0
2 1	8 14.11	+15 25.2	1.261	2.237	4.4	20.0
2 11	8 4.43	+16 39.1	1.283	2.229	9.5	20.3
2 21	7 57.00	+17 46.5	1.330	2.221	14.4	20.6
3 2	7 52.74	+18 43.3	1.398	2.212	18.5	20.8

110297 Yellowriver 1 24.1 54°.46 0°.3/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.58	+17 7.8	2.051	2.885	12.3	19.6
1 2	8 40.08	+17 26.1	1.993	2.903	8.9	19.4
1 12	8 32.73	+17 51.1	1.960	2.921	5.0	19.2
1 22	8 24.31	+18 19.4	1.955	2.938	1.0	19.0
2 1	8 15.76	+18 47.5	1.980	2.957	3.1	19.2
2 11	8 8.07	+19 12.2	2.034	2.975	7.0	19.4
2 21	8 2.04	+19 31.4	2.115	2.993	10.4	19.7
3 2	7 58.21	+19 44.3	2.219	3.012	13.2	19.9

325606 2009 SN_{213} 1 24.1 201°.56 4°.9/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.92	+ 4 42.1	2.308	3.092	12.8	20.4
1 2	8 41.71	+ 4 8.6	2.221	3.088	10.1	20.2
1 12	8 33.70	+ 3 48.2	2.158	3.084	7.3	20.0
1 22	8 24.51	+ 3 41.4	2.123	3.080	5.2	19.9
2 1	8 15.00	+ 3 47.5	2.118	3.074	5.3	19.9
2 11	8 6.10	+ 4 4.2	2.142	3.069	7.6	20.0
2 21	7 58.63	+ 4 28.5	2.194	3.063	10.4	20.2
3 2	7 53.18	+ 4 56.9	2.269	3.056	13.1	20.4

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
456590 2007 DD_{93}			1 24.1 346°.60		4°.5/26.9 16	
	h m	° ′			°	m
12 23	8 41.43	+ 4 58.4	1.405	2.232	17.3	20.4
1 2	8 37.99	+ 5 38.2	1.326	2.223	13.5	20.1
1 12	8 32.00	+ 6 45.6	1.269	2.214	9.2	19.9
1 22	8 24.25	+ 8 17.9	1.235	2.207	5.3	19.6
2 1	8 15.92	+10 8.5	1.228	2.201	5.3	19.6
2 11	8 8.43	+12 7.0	1.247	2.196	9.4	19.8
2 21	8 3.00	+14 3.1	1.291	2.192	13.9	20.1
3 2	8 0.48	+15 48.6	1.356	2.189	17.9	20.3
214361 2005 KF_{9}			1 24.1 132°.32		2°.6/22.6 18	
12 23	8 50.66	+25 20.6	2.170	3.005	11.7	20.8
1 2	8 43.79	+26 9.1	2.109	3.020	8.4	20.6
1 12	8 34.88	+26 57.9	2.075	3.034	5.0	20.4
1 22	8 24.72	+27 41.6	2.071	3.048	2.6	20.3
2 1	8 14.38	+28 15.5	2.097	3.061	4.6	20.4
2 11	8 4.95	+28 36.9	2.152	3.073	7.9	20.7
2 21	7 57.33	+28 45.6	2.234	3.085	11.0	20.9
3 2	7 52.11	+28 42.9	2.339	3.096	13.6	21.1
341264 2007 RF_{250}			1 24.1 299°.09		4°.4/22.0 18	
12 23	8 50.82	+32 5.6	2.131	2.968	11.8	20.4
1 2	8 44.11	+32 28.1	2.056	2.963	8.8	20.2
1 12	8 35.15	+32 44.8	2.006	2.957	5.9	20.0
1 22	8 24.78	+32 50.7	1.985	2.952	4.4	19.9
2 1	8 14.15	+32 42.1	1.993	2.946	5.9	20.0
2 11	8 4.49	+32 17.8	2.029	2.941	8.9	20.2
2 21	7 56.79	+31 39.8	2.091	2.935	11.9	20.4
3 2	7 51.69	+30 50.9	2.175	2.930	14.6	20.5
83922 2001 VK_{16}			1 24.2 113°.88		2°.2/25.4 18	
12 23	8 45.23	+11 58.5	2.443	3.256	11.3	19.6
1 2	8 39.64	+11 50.1	2.368	3.262	8.4	19.4
1 12	8 32.46	+11 50.1	2.318	3.268	5.3	19.2
1 22	8 24.30	+11 57.4	2.297	3.273	2.5	19.1
2 1	8 15.94	+12 9.9	2.306	3.279	3.2	19.1
2 11	8 8.23	+12 25.3	2.345	3.284	6.2	19.3
2 21	8 1.88	+12 41.5	2.412	3.290	9.3	19.5
3 2	7 57.38	+12 56.4	2.503	3.295	11.9	19.7
166111 2002 CE_{185}			1 24.2 291°.91		1°.9/23.4 18	
12 23	8 50.21	+22 23.8	1.482	2.333	15.2	20.7
1 2	8 44.59	+22 48.7	1.393	2.312	11.2	20.4
1 12	8 35.89	+23 18.8	1.328	2.291	6.4	20.1
1 22	8 24.99	+23 48.1	1.288	2.271	2.0	19.8
2 1	8 13.29	+24 10.3	1.276	2.250	5.2	19.9
2 11	8 2.53	+24 21.1	1.291	2.229	10.4	20.2
2 21	7 54.16	+24 19.2	1.329	2.208	15.2	20.4
3 2	7 49.19	+24 5.4	1.387	2.188	19.3	20.6
326680 2002 VM_{134}			1 24.2 23°.85		3°.8/21.9 18	
12 23	8 46.66	+27 56.2	1.863	2.713	12.6	20.0
1 2	8 41.28	+28 46.5	1.802	2.719	9.2	19.8
1 12	8 33.61	+29 35.7	1.767	2.725	5.8	19.6
1 22	8 24.52	+30 17.4	1.758	2.732	3.8	19.5
2 1	8 15.18	+30 46.3	1.778	2.738	5.7	19.6
2 11	8 6.83	+30 59.7	1.826	2.746	9.1	19.8
2 21	8 0.46	+30 57.6	1.898	2.754	12.4	20.0
3 2	7 56.72	+30 42.1	1.991	2.762	15.3	20.2
237359 3774 T_{-3}			1 24.2 93°.66		0°.1/24.1 18	
12 23	8 46.69	+18 0.7	2.193	3.025	11.7	21.0
1 2	8 40.83	+18 23.4	2.130	3.039	8.5	20.8
1 12	8 33.17	+18 51.9	2.093	3.054	4.8	20.6
1 22	8 24.43	+19 22.7	2.085	3.069	0.8	20.4
2 1	8 15.54	+19 52.1	2.107	3.083	3.1	20.6
2 11	8 7.45	+20 17.2	2.159	3.097	6.8	20.8
2 21	8 0.96	+20 36.3	2.238	3.111	10.1	21.1
3 2	7 56.59	+20 48.4	2.340	3.125	12.8	21.3
180673 2004 GL_{74}			1 24.2 250°.54		0°.6/24.5 18	
12 23	8 46.73	+15 20.2	1.864	2.697	13.4	20.3
1 2	8 41.35	+15 55.3	1.781	2.690	9.8	20.0
1 12	8 33.72	+16 41.4	1.722	2.682	5.7	19.8
1 22	8 24.57	+17 34.5	1.691	2.674	1.3	19.5
2 1	8 14.95	+18 29.4	1.689	2.666	3.5	19.6
2 11	8 6.06	+19 20.9	1.717	2.658	8.0	19.9
2 21	7 58.95	+20 5.3	1.770	2.649	12.0	20.1
3 2	7 54.35	+20 40.4	1.845	2.641	15.4	20.3
455940 2005 US_{415}			1 24.2 240°.14		2°.3/22.7 17	
12 23	8 48.47	+23 47.4	2.182	3.020	11.5	21.9
1 2	8 42.47	+24 36.6	2.094	3.006	8.4	21.7
1 12	8 34.31	+25 29.2	2.031	2.992	4.9	21.4
1 22	8 24.68	+26 19.8	1.998	2.977	2.3	21.2
2 1	8 14.55	+27 3.1	1.995	2.962	4.4	21.3
2 11	8 5.07	+27 35.2	2.022	2.947	8.1	21.5
2 21	7 57.23	+27 54.8	2.075	2.931	11.5	21.7
3 2	7 51.76	+28 2.2	2.151	2.915	14.5	21.9

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
237524 2000 SK_{251}			1 24.2 209°.21		1°.0/24.6 18	
	h m	° ′			°	m
12 23	8 50.03	+15 18.6	1.856	2.683	13.7	21.0
1 2	8 43.71	+15 33.7	1.773	2.678	10.1	20.7
1 12	8 35.04	+15 58.4	1.714	2.673	5.9	20.5
1 22	8 24.80	+16 29.4	1.684	2.666	1.6	20.2
2 1	8 14.12	+17 2.6	1.683	2.659	3.6	20.3
2 11	8 4.26	+17 33.9	1.712	2.652	8.0	20.6
2 21	7 56.26	+18 0.5	1.766	2.644	12.1	20.8
3 2	7 50.89	+18 20.5	1.844	2.636	15.5	21.0
88105 2000 WZ_{88}			1 24.2 88°.42		1°.7/23.2 18	
12 23	8 48.10	+22 12.7	1.917	2.759	12.7	19.6
1 2	8 42.16	+22 48.8	1.854	2.769	9.1	19.4
1 12	8 34.05	+23 28.3	1.816	2.778	5.2	19.1
1 22	8 24.61	+24 6.2	1.806	2.788	1.7	18.9
2 1	8 14.94	+24 37.6	1.826	2.797	4.1	19.1
2 11	8 6.22	+24 59.5	1.874	2.807	8.0	19.4
2 21	7 59.39	+25 10.6	1.948	2.816	11.6	19.6
3 2	7 55.06	+25 11.5	2.044	2.825	14.6	19.8
227088 2005 MJ_{9}			1 24.2 279°.46		2°.3/25.0 18	
12 23	8 49.45	+13 21.0	1.338	2.180	17.1	20.9
1 2	8 44.04	+13 23.9	1.258	2.169	12.9	20.6
1 12	8 35.57	+13 41.9	1.200	2.158	7.9	20.3
1 22	8 24.94	+14 12.0	1.167	2.147	2.9	20.0
2 1	8 13.61	+14 49.4	1.160	2.137	4.7	20.1
2 11	8 3.31	+15 28.3	1.179	2.126	10.1	20.3
2 21	7 55.47	+16 4.0	1.222	2.115	15.2	20.6
3 2	7 51.05	+16 33.2	1.285	2.104	19.5	20.8
199511 2006 DH_{124}			1 24.2 66°.07		0°.1/24.2 18	
12 23	8 46.77	+17 47.1	1.947	2.783	12.8	20.6
1 2	8 41.16	+18 4.5	1.877	2.788	9.3	20.4
1 12	8 33.48	+18 28.8	1.832	2.793	5.3	20.2
1 22	8 24.52	+18 56.3	1.815	2.798	1.0	19.9
2 1	8 15.29	+19 23.2	1.827	2.803	3.4	20.1
2 11	8 6.93	+19 46.1	1.868	2.809	7.5	20.3
2 21	8 0.32	+20 3.0	1.935	2.814	11.2	20.6
3 2	7 56.09	+20 13.0	2.025	2.819	14.3	20.8
109742 2001 RM_{64}			1 24.2 221°.59		0°.8/23.8 18	
12 23	8 51.23	+21 42.5	2.069	2.902	12.3	20.0
1 2	8 44.38	+21 45.5	1.985	2.895	8.9	19.8
1 12	8 35.33	+21 50.7	1.926	2.887	5.1	19.6
1 22	8 24.86	+21 54.6	1.897	2.880	1.1	19.3
2 1	8 14.04	+21 54.2	1.897	2.871	3.6	19.4
2 11	8 4.04	+21 47.5	1.928	2.863	7.7	19.7
2 21	7 55.86	+21 34.2	1.985	2.854	11.4	19.9
3 2	7 50.18	+21 14.9	2.066	2.844	14.5	20.1
381206 2007 RD_{102}			1 24.2 79°.51		4°.6/22.0 18	
12 23	8 53.27	+33 41.3	2.234	3.065	11.5	21.1
1 2	8 45.53	+34 3.5	2.185	3.087	8.7	20.9
1 12	8 35.76	+34 18.3	2.162	3.109	5.9	20.8
1 22	8 24.90	+34 20.8	2.169	3.130	4.6	20.8
2 1	8 14.08	+34 8.2	2.204	3.152	5.9	20.9
2 11	8 4.44	+33 40.5	2.269	3.173	8.5	21.1
2 21	7 56.82	+33 0.2	2.360	3.194	11.1	21.3
3 2	7 51.72	+32 10.4	2.474	3.215	13.4	21.5
197594 2004 HD_{49}			1 24.2 150°.07		1°.8/23.2 18	
12 23	8 53.32	+22 26.8	1.937	2.770	13.0	21.9
1 2	8 45.91	+23 10.4	1.871	2.782	9.3	21.7
1 12	8 36.18	+23 57.2	1.832	2.793	5.3	21.5
1 22	8 25.01	+24 41.3	1.822	2.803	1.9	21.3
2 1	8 13.58	+25 17.5	1.843	2.813	4.3	21.5
2 11	8 3.17	+25 42.4	1.893	2.821	8.3	21.7
2 21	7 54.79	+25 55.3	1.969	2.829	11.9	22.0
3 2	7 49.11	+25 57.1	2.068	2.835	14.9	22.2
423376 2005 JL_{69}			1 24.2 266°.94		4°.8/27.7 18	
12 23	8 42.66	+ 1 45.5	2.367	3.146	12.6	21.1
1 2	8 37.97	+ 1 59.2	2.276	3.139	10.1	20.9
1 12	8 31.63	+ 2 30.5	2.209	3.132	7.4	20.7
1 22	8 24.20	+ 3 18.8	2.169	3.124	5.2	20.6
2 1	8 16.43	+ 4 21.4	2.158	3.117	5.0	20.6
2 11	8 9.18	+ 5 34.0	2.177	3.110	7.1	20.7
2 21	8 3.18	+ 6 51.5	2.223	3.102	9.9	20.8
3 2	7 59.02	+ 8 8.8	2.294	3.095	12.6	21.0
77872 2001 SU_{15}			1 24.2 319°.69		2°.1/22.9 18	
12 23	8 45.98	+24 0.7	2.000	2.845	12.1	19.0
1 2	8 40.75	+24 30.6	1.918	2.835	8.8	18.8
1 12	8 33.35	+25 2.8	1.862	2.824	5.1	18.5
1 22	8 24.52	+25 32.4	1.833	2.814	2.2	18.3
2 1	8 15.30	+25 55.2	1.834	2.804	4.4	18.4
2 11	8 6.84	+26 7.9	1.862	2.794	8.2	18.7
2 21	8 0.14	+26 9.6	1.917	2.784	11.8	18.9
3 2	7 55.88	+26 0.9	1.993	2.775	14.9	19.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
467996 2012 TE_{264}			1 24.2 179°.17	6°.6/29.3 17		
	h m	° ′			°	m
12 23	8 42.78	− 4 54.4	2.640	3.375	12.6	22.0
1 2	8 37.86	− 5 11.7	2.556	3.376	10.6	21.9
1 12	8 31.49	− 5 10.8	2.494	3.376	8.6	21.7
1 22	8 24.18	− 4 50.9	2.459	3.377	7.0	21.6
2 1	8 16.63	− 4 12.8	2.451	3.377	6.7	21.6
2 11	8 9.57	− 3 19.6	2.471	3.376	7.8	21.7
2 21	8 3.67	− 2 15.5	2.518	3.376	9.7	21.8
3 2	7 59.42	− 1 5.6	2.590	3.375	11.7	21.9
381294 2007 UL_{1}			1 24.2 25°.34	5°.1/21.2 18		
12 23	8 48.25	+32 40.0	2.052	2.895	11.9	20.6
1 2	8 42.37	+33 31.5	1.990	2.898	9.0	20.4
1 12	8 34.23	+34 17.9	1.953	2.902	6.3	20.2
1 22	8 24.68	+34 52.8	1.944	2.905	5.1	20.2
2 1	8 14.89	+35 11.5	1.964	2.909	6.6	20.3
2 11	8 6.07	+35 12.0	2.010	2.913	9.4	20.5
2 21	7 59.20	+34 55.5	2.082	2.918	12.3	20.7
3 2	7 54.94	+34 25.0	2.174	2.922	14.8	20.8
245160 2004 TG_{41}			1 24.2 106°.43	3°.7/22.3 18		
12 23	8 52.11	+25 33.0	1.580	2.429	14.6	20.3
1 2	8 45.50	+26 38.3	1.525	2.442	10.6	20.1
1 12	8 36.13	+27 45.0	1.495	2.455	6.3	19.9
1 22	8 25.04	+28 44.7	1.492	2.468	3.7	19.8
2 1	8 13.69	+29 30.1	1.517	2.480	6.0	20.0
2 11	8 3.60	+29 57.5	1.569	2.493	10.1	20.2
2 21	7 55.97	+30 7.0	1.646	2.504	13.9	20.5
3 2	7 51.49	+30 0.9	1.743	2.516	17.0	20.7
279002 2008 UA_{256}			1 24.2 187°.67	0°.7/24.6 17		
12 23	8 45.67	+15 37.3	2.313	3.138	11.4	21.7
1 2	8 40.15	+15 55.6	2.233	3.138	8.3	21.5
1 12	8 32.86	+16 21.5	2.179	3.137	4.9	21.3
1 22	8 24.45	+16 52.1	2.154	3.137	1.3	21.0
2 1	8 15.76	+17 24.2	2.160	3.136	2.9	21.2
2 11	8 7.71	+17 54.5	2.195	3.135	6.6	21.4
2 21	8 1.10	+18 20.8	2.257	3.133	9.9	21.6
3 2	7 56.51	+18 41.4	2.344	3.132	12.7	21.8
14164 Hennigar			1 24.2 29°.86	0°.6/23.8 18	R	
12 23	8 46.47	+19 52.4	1.948	2.789	12.6	18.5
1 2	8 41.00	+20 14.8	1.877	2.791	9.1	18.3
1 12	8 33.43	+20 42.4	1.832	2.794	5.1	18.1
1 22	8 24.56	+21 11.3	1.814	2.797	1.0	17.8
2 1	8 15.41	+21 37.3	1.825	2.800	3.6	18.0
2 11	8 7.11	+21 57.2	1.865	2.804	7.7	18.2
2 21	8 0.58	+22 9.3	1.931	2.807	11.3	18.5
3 2	7 56.45	+22 13.3	2.020	2.811	14.4	18.7
350043 2010 KK_{129}			1 24.2 276°.40	1°.3/23.5 18		
12 23	8 48.46	+18 41.3	1.456	2.306	15.5	20.7
1 2	8 43.20	+19 41.7	1.381	2.300	11.3	20.4
1 12	8 35.05	+20 53.8	1.330	2.294	6.4	20.1
1 22	8 24.90	+22 10.4	1.304	2.287	1.5	19.8
2 1	8 14.12	+23 22.9	1.307	2.281	4.9	20.0
2 11	8 4.34	+24 24.1	1.336	2.275	10.0	20.3
2 21	7 56.89	+25 10.1	1.390	2.269	14.6	20.5
3 2	7 52.68	+25 39.9	1.463	2.263	18.5	20.8
395807 2012 XD_{16}			1 24.2 48°.63	3°.3/22.5 17		
12 23	8 49.35	+21 31.1	1.136	2.002	17.8	20.3
1 2	8 44.14	+23 2.7	1.091	2.017	12.8	20.1
1 12	8 35.60	+24 42.9	1.068	2.033	7.3	19.8
1 22	8 24.97	+26 19.7	1.069	2.050	3.3	19.6
2 1	8 14.04	+27 41.5	1.097	2.067	6.6	19.9
2 11	8 4.71	+28 41.0	1.149	2.084	11.7	20.2
2 21	7 58.38	+29 16.7	1.223	2.102	16.3	20.5
3 2	7 55.77	+29 30.7	1.316	2.120	20.0	20.8
162696 2000 UK_{12}			1 24.2 117°.65	1°.3/23.5 18		
12 23	8 52.11	+20 51.8	1.793	2.630	13.7	20.8
1 2	8 45.09	+21 27.8	1.735	2.648	9.8	20.6
1 12	8 35.73	+22 8.3	1.703	2.665	5.5	20.3
1 22	8 24.97	+22 47.8	1.698	2.681	1.4	20.1
2 1	8 14.04	+23 21.2	1.724	2.697	4.1	20.3
2 11	8 4.23	+23 45.1	1.778	2.712	8.3	20.6
2 21	7 56.53	+23 58.4	1.858	2.727	12.1	20.9
3 2	7 51.58	+24 1.7	1.961	2.741	15.2	21.1
354540 2004 RA_{250}			1 24.2 129°.21	0°.3/24.3 18		
12 23	8 52.12	+17 10.1	1.840	2.668	13.7	22.1
1 2	8 45.03	+17 32.7	1.778	2.685	10.0	21.9
1 12	8 35.68	+18 2.8	1.741	2.700	5.7	21.7
1 22	8 24.97	+18 36.1	1.732	2.715	1.1	21.4
2 1	8 14.07	+19 8.2	1.754	2.730	3.5	21.6
2 11	8 4.22	+19 35.5	1.805	2.743	7.9	21.9
2 21	7 56.39	+19 55.8	1.882	2.756	11.7	22.2
3 2	7 51.21	+20 8.6	1.982	2.768	14.8	22.4

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
242328 2003 YH_{32}			1 24.2 60°.31	0°.3/24.0 18		
	h m	° ′			°	m
12 23	8 47.23	+19 48.1	2.090	2.926	12.0	20.3
1 2	8 41.38	+19 55.7	2.019	2.931	8.7	20.1
1 12	8 33.58	+20 7.3	1.974	2.936	4.9	19.8
1 22	8 24.59	+20 19.9	1.957	2.941	0.9	19.5
2 1	8 15.38	+20 30.4	1.971	2.946	3.3	19.7
2 11	8 7.00	+20 36.6	2.013	2.951	7.2	20.0
2 21	8 0.31	+20 37.1	2.082	2.956	10.7	20.2
3 2	7 55.89	+20 31.9	2.173	2.962	13.6	20.4
448294 2009 BB_{21}			1 24.2 52°.58	0°.2/24.1 17		
12 23	8 50.10	+17 5.0	1.222	2.076	17.6	21.0
1 2	8 44.23	+17 43.8	1.179	2.099	12.7	20.8
1 12	8 35.43	+18 34.1	1.158	2.122	7.1	20.6
1 22	8 24.93	+19 28.7	1.163	2.146	1.3	20.3
2 1	8 14.34	+20 20.1	1.194	2.170	4.5	20.6
2 11	8 5.32	+21 2.4	1.250	2.195	9.9	20.9
2 21	7 59.04	+21 32.7	1.330	2.220	14.4	21.3
3 2	7 56.11	+21 50.6	1.430	2.244	18.1	21.6
162639 2000 SV_{176}			1 24.2 55°.33	1°.0/24.5 18		
12 23	8 50.87	+17 1.1	1.429	2.273	16.1	19.7
1 2	8 44.66	+16 53.8	1.366	2.280	11.8	19.5
1 12	8 35.68	+16 55.0	1.326	2.287	6.8	19.2
1 22	8 24.99	+17 1.6	1.312	2.295	1.7	18.9
2 1	8 14.03	+17 9.7	1.325	2.302	4.2	19.1
2 11	8 4.34	+17 16.1	1.366	2.310	9.2	19.4
2 21	7 57.10	+17 18.9	1.430	2.318	13.7	19.7
3 2	7 53.01	+17 17.0	1.516	2.326	17.5	20.0
353260 2010 EN_{105}			1 24.2 252°.00	3°.6/22.5 18		
12 23	8 51.92	+25 50.8	1.572	2.421	14.6	21.0
1 2	8 45.67	+26 38.2	1.495	2.412	10.7	20.8
1 12	8 36.44	+27 27.5	1.441	2.402	6.5	20.5
1 22	8 25.17	+28 11.2	1.414	2.391	3.6	20.3
2 1	8 13.29	+28 42.2	1.415	2.381	6.1	20.4
2 11	8 2.47	+28 56.3	1.443	2.370	10.5	20.6
2 21	7 54.08	+28 53.3	1.495	2.359	14.7	20.9
3 2	7 49.01	+28 35.6	1.567	2.348	18.3	21.1
492781 2014 QV_{223}			1 24.2 210°.22	1°.7/23.3 17		
12 23	8 52.14	+22 51.1	2.039	2.872	12.4	22.8
1 2	8 45.17	+23 18.1	1.955	2.865	9.0	22.5
1 12	8 35.88	+23 47.7	1.897	2.858	5.2	22.3
1 22	8 25.05	+24 15.1	1.868	2.850	1.8	22.1
2 1	8 13.80	+24 35.9	1.869	2.840	4.1	22.2
2 11	8 3.36	+24 47.1	1.900	2.831	8.1	22.4
2 21	7 54.79	+24 48.1	1.958	2.820	11.8	22.6
3 2	7 48.81	+24 39.6	2.038	2.809	15.0	22.8
502544 2015 BZ_{456}			1 24.2 333°.51	2°.1/23.1 18		
12 23	8 48.48	+25 15.0	2.096	2.936	11.8	21.4
1 2	8 42.39	+25 28.5	2.021	2.934	8.6	21.2
1 12	8 34.21	+25 41.8	1.971	2.932	5.0	20.9
1 22	8 24.73	+25 50.9	1.950	2.930	2.2	20.7
2 1	8 15.00	+25 52.4	1.959	2.928	4.2	20.9
2 11	8 6.12	+25 44.5	1.996	2.927	7.8	21.1
2 21	7 59.03	+25 27.3	2.060	2.925	11.2	21.3
3 2	7 54.34	+25 2.1	2.147	2.924	14.1	21.5
285506 2000 EZ_{15}			1 24.2 142°.56	1°.5/23.5 18		
12 23	8 49.84	+22 2.1	1.747	2.590	13.7	21.3
1 2	8 43.68	+22 26.2	1.676	2.592	9.9	21.0
1 12	8 35.07	+22 53.9	1.631	2.593	5.6	20.8
1 22	8 24.90	+23 20.3	1.612	2.594	1.6	20.5
2 1	8 14.41	+23 40.7	1.623	2.596	4.3	20.7
2 11	8 4.92	+23 51.9	1.661	2.597	8.7	21.0
2 21	7 57.53	+23 53.1	1.725	2.598	12.6	21.2
3 2	7 52.92	+23 44.9	1.810	2.599	15.9	21.4
436967 2012 TT_{173}			1 24.2 81°.70	2°.8/22.5 18		
12 23	8 47.30	+27 17.9	2.341	3.180	10.8	21.5
1 2	8 41.35	+27 47.0	2.273	3.185	7.8	21.4
1 12	8 33.55	+28 14.6	2.231	3.189	4.8	21.2
1 22	8 24.61	+28 36.7	2.218	3.194	2.8	21.0
2 1	8 15.47	+28 49.6	2.236	3.199	4.5	21.2
2 11	8 7.14	+28 51.5	2.282	3.203	7.5	21.4
2 21	8 0.41	+28 42.5	2.354	3.208	10.4	21.6
3 2	7 55.85	+28 23.9	2.450	3.212	13.0	21.7
521019 2015 CO_{68}			1 24.2 255°.33	2°.0/25.6 17		
12 23	8 43.60	+10 55.0	2.322	3.138	11.7	21.8
1 2	8 38.70	+11 21.0	2.238	3.134	8.8	21.6
1 12	8 32.09	+11 58.6	2.179	3.130	5.5	21.4
1 22	8 24.37	+12 45.5	2.149	3.127	2.4	21.2
2 1	8 16.33	+13 38.1	2.148	3.123	3.2	21.2
2 11	8 8.86	+14 32.3	2.178	3.119	6.5	21.5
2 21	8 2.73	+15 24.4	2.235	3.116	9.8	21.7
3 2	7 58.53	+16 11.3	2.316	3.112	12.6	21.8

246763 2009 CL_{14} 1 24.2 275°.69 1°.3/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 44.28	+14 1.7	2.361	3.184	11.3	21.1
1 2	8 39.19	+14 13.5	2.272	3.174	8.4	20.9
1 12	8 32.38	+14 33.8	2.208	3.164	5.0	20.6
1 22	8 24.42	+15 0.4	2.173	3.154	1.7	20.4
2 1	8 16.14	+15 30.4	2.168	3.144	3.0	20.5
2 11	8 8.41	+16 0.8	2.193	3.134	6.5	20.7
2 21	8 2.02	+16 28.9	2.245	3.124	9.8	20.9
3 2	7 57.57	+16 52.6	2.321	3.114	12.7	21.0

68370 2001 OM_{107} 1 24.2 77°.86 3°.0/22.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.76	+28 54.9	2.270	3.103	11.3	19.0
1 2	8 44.40	+29 6.5	2.218	3.126	8.2	18.9
1 12	8 35.16	+29 14.2	2.193	3.148	5.0	18.7
1 22	8 24.90	+29 14.2	2.196	3.171	3.0	18.6
2 1	8 14.67	+29 3.9	2.231	3.193	4.5	18.8
2 11	8 5.50	+28 42.8	2.295	3.215	7.5	19.0
2 21	7 58.17	+28 12.3	2.386	3.237	10.4	19.2
3 2	7 53.18	+27 34.5	2.500	3.258	12.8	19.4

463945 2014 UC_{208} 1 24.2 197°.02 4°.8/21.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.22	+33 6.9	2.294	3.124	11.3	21.5
1 2	8 45.87	+33 56.2	2.220	3.121	8.6	21.3
1 12	8 36.24	+34 40.2	2.172	3.117	6.0	21.1
1 22	8 25.15	+35 12.8	2.153	3.113	4.9	21.0
2 1	8 13.71	+35 29.3	2.165	3.108	6.3	21.1
2 11	8 3.16	+35 27.8	2.205	3.102	9.0	21.3
2 21	7 54.51	+35 9.6	2.271	3.095	11.8	21.5
3 2	7 48.44	+34 37.7	2.359	3.088	14.3	21.6

390412 2013 YK_{27} 1 24.2 252°.21 1°.1/24.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.21	+16 14.4	2.540	3.360	10.7	20.3
1 2	8 41.14	+15 55.9	2.452	3.353	7.9	20.1
1 12	8 33.41	+15 42.0	2.391	3.347	4.7	19.9
1 22	8 24.63	+15 31.4	2.359	3.340	1.5	19.7
2 1	8 15.61	+15 22.7	2.358	3.334	2.8	19.8
2 11	8 7.19	+15 14.4	2.388	3.327	6.2	20.0
2 21	8 0.13	+15 5.6	2.446	3.320	9.3	20.2
3 2	7 54.96	+14 55.5	2.528	3.313	12.0	20.3

348493 2005 ST_{247} 1 24.2 289°.01 3°.6/22.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.96	+25 30.9	1.359	2.216	16.0	20.9
1 2	8 45.99	+26 14.0	1.289	2.210	11.7	20.6
1 12	8 36.75	+26 59.4	1.241	2.203	7.0	20.3
1 22	8 25.29	+27 38.8	1.219	2.197	3.7	20.1
2 1	8 13.25	+28 4.6	1.223	2.192	6.4	20.2
2 11	8 2.49	+28 12.7	1.254	2.186	11.2	20.5
2 21	7 54.49	+28 3.2	1.307	2.180	15.8	20.7
3 2	7 50.15	+27 39.2	1.379	2.174	19.7	21.0

109675 2001 RP_{24} 1 24.2 261°.53 2°.2/23.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.77	+24 19.8	1.904	2.745	12.8	19.6
1 2	8 44.43	+24 44.0	1.815	2.729	9.4	19.4
1 12	8 35.60	+25 10.0	1.751	2.712	5.5	19.1
1 22	8 25.07	+25 32.5	1.715	2.696	2.3	18.9
2 1	8 14.01	+25 46.9	1.709	2.679	4.6	19.0
2 11	8 3.75	+25 50.3	1.731	2.661	8.8	19.2
2 21	7 55.45	+25 42.1	1.779	2.644	12.7	19.4
3 2	7 49.89	+25 23.7	1.848	2.626	16.0	19.6

115356 2003 SD_{247} 1 24.2 106°.21 1°.0/23.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.22	+20 56.1	2.103	2.940	11.9	20.3
1 2	8 41.44	+21 21.7	2.032	2.945	8.6	20.1
1 12	8 33.68	+21 51.3	1.988	2.950	4.8	19.9
1 22	8 24.69	+22 20.8	1.972	2.954	1.2	19.6
2 1	8 15.46	+22 46.3	1.986	2.959	3.6	19.8
2 11	8 7.04	+23 4.9	2.028	2.964	7.3	20.0
2 21	8 0.30	+23 15.2	2.098	2.968	10.8	20.2
3 2	7 55.83	+23 17.3	2.190	2.973	13.7	20.5

197006 2003 UZ_{97} 1 24.2 115°.38 1°.1/23.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.86	+21 0.8	2.189	3.025	11.5	20.3
1 2	8 41.12	+21 34.7	2.120	3.033	8.3	20.1
1 12	8 33.47	+22 12.5	2.078	3.040	4.7	19.9
1 22	8 24.65	+22 50.1	2.064	3.047	1.3	19.7
2 1	8 15.60	+23 23.3	2.081	3.054	3.5	19.9
2 11	8 7.33	+23 49.1	2.127	3.060	7.2	20.1
2 21	8 0.66	+24 6.0	2.199	3.067	10.5	20.3
3 2	7 56.19	+24 13.8	2.295	3.073	13.3	20.5

371780 2007 JV_{6} 1 24.2 343°.26 2°.9/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.50	+11 21.3	1.704	2.533	14.6	21.1
1 2	8 40.57	+11 17.0	1.626	2.529	11.0	20.9
1 12	8 33.36	+11 26.0	1.572	2.525	7.0	20.6
1 22	8 24.66	+11 46.6	1.544	2.521	3.3	20.4
2 1	8 15.56	+12 15.6	1.543	2.518	4.2	20.4
2 11	8 7.29	+12 48.9	1.570	2.515	8.2	20.7
2 21	8 0.88	+13 22.3	1.623	2.512	12.3	20.9
3 2	7 57.04	+13 52.6	1.697	2.511	15.8	21.1

384097 2008 WC_{35} 1 24.2 22°.88 9°.8/17.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 51.76	+43 59.6	1.870	2.697	13.6	20.7
1 2	8 45.65	+45 45.4	1.823	2.701	11.5	20.6
1 12	8 36.46	+47 16.5	1.801	2.705	10.1	20.5
1 22	8 25.24	+48 22.9	1.804	2.710	10.0	20.5
2 1	8 13.56	+48 58.0	1.833	2.714	11.3	20.6
2 11	8 3.18	+49 0.7	1.885	2.720	13.3	20.7
2 21	7 55.45	+48 34.7	1.958	2.725	15.5	20.9
3 2	7 51.19	+47 46.5	2.048	2.731	17.5	21.1

88445 2001 QK_{78} 1 24.2 62°.42 2°.9/23.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.42	+23 24.2	1.257	2.114	17.1	18.7
1 2	8 46.66	+24 14.2	1.218	2.139	12.2	18.5
1 12	8 36.83	+25 6.9	1.201	2.165	7.0	18.3
1 22	8 25.27	+25 53.9	1.210	2.191	3.0	18.1
2 1	8 13.69	+26 27.9	1.246	2.217	5.8	18.4
2 11	8 3.86	+26 45.4	1.307	2.242	10.6	18.7
2 21	7 56.94	+26 47.0	1.392	2.268	14.8	19.0
3 2	7 53.53	+26 35.2	1.497	2.294	18.3	19.3

479924 2014 HJ_{110} 1 24.2 208°.04 1°.6/25.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 40.26	+10 47.6	3.554	4.357	8.3	22.1
1 2	8 35.81	+11 3.8	3.465	4.354	6.2	22.0
1 12	8 30.29	+11 27.4	3.403	4.350	3.9	21.8
1 22	8 24.09	+11 56.9	3.371	4.347	1.9	21.7
2 1	8 17.71	+12 30.5	3.370	4.343	2.3	21.7
2 11	8 11.68	+13 5.9	3.401	4.339	4.5	21.8
2 21	8 6.49	+13 40.9	3.460	4.335	6.8	22.0
3 2	8 2.51	+14 13.9	3.545	4.331	8.8	22.1

304825 2007 RA_{18} 1 24.2 64°.00 1°.9/25.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.50	+13 43.5	1.387	2.225	16.9	20.6
1 2	8 44.91	+13 52.9	1.344	2.253	12.4	20.4
1 12	8 35.72	+14 15.3	1.323	2.281	7.3	20.2
1 22	8 25.07	+14 46.7	1.327	2.308	2.5	20.0
2 1	8 14.42	+15 21.9	1.360	2.336	4.2	20.2
2 11	8 5.21	+15 55.8	1.419	2.364	8.9	20.5
2 21	7 58.48	+16 24.9	1.503	2.391	13.1	20.8
3 2	7 54.80	+16 47.3	1.608	2.419	16.6	21.1

351606 2005 VG_{114} 1 24.2 146°.53 4°.0/22.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.85	+27 2.5	1.711	2.553	14.0	21.0
1 2	8 46.73	+28 8.5	1.650	2.563	10.2	20.8
1 12	8 36.90	+29 14.5	1.614	2.572	6.3	20.6
1 22	8 25.32	+30 12.1	1.607	2.580	4.0	20.5
2 1	8 13.41	+30 54.6	1.628	2.588	6.2	20.6
2 11	8 2.68	+31 18.3	1.677	2.595	10.0	20.8
2 21	7 54.32	+31 23.7	1.751	2.601	13.6	21.1
3 2	7 49.05	+31 13.6	1.846	2.607	16.7	21.3

30700 2367 $T\text{-}_{3}$ 1 24.2 351°.32 3°.3/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.16	+12 43.9	1.212	2.060	18.1	18.5
1 2	8 43.22	+12 21.9	1.143	2.056	13.7	18.2
1 12	8 35.17	+12 14.8	1.095	2.053	8.6	17.9
1 22	8 25.04	+12 21.2	1.071	2.050	3.9	17.7
2 1	8 14.39	+12 37.7	1.072	2.048	5.2	17.7
2 11	8 4.96	+12 59.6	1.099	2.047	10.4	18.0
2 21	7 58.17	+13 22.5	1.147	2.047	15.4	18.3
3 2	7 54.86	+13 42.5	1.215	2.047	19.6	18.6

351706 2006 BS_{193} 1 24.2 310°.29 2°.5/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.29	+11 1.1	1.451	2.286	16.4	20.9
1 2	8 42.25	+11 28.1	1.377	2.283	12.4	20.6
1 12	8 34.50	+12 13.5	1.324	2.280	7.7	20.3
1 22	8 24.92	+13 13.4	1.297	2.277	3.1	20.1
2 1	8 14.81	+14 21.8	1.298	2.274	4.4	20.1
2 11	8 5.67	+15 31.4	1.326	2.272	9.2	20.4
2 21	7 58.72	+16 35.8	1.377	2.270	13.9	20.7
3 2	7 54.82	+17 30.8	1.450	2.267	17.8	20.9

161778 2006 US_{27} 1 24.2 285°.94 1°.8/23.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.50	+23 31.2	2.369	3.208	10.7	20.3
1 2	8 40.18	+24 2.4	2.283	3.197	7.7	20.1
1 12	8 33.01	+24 35.7	2.224	3.186	4.5	19.8
1 22	8 24.63	+25 7.4	2.194	3.175	1.8	19.6
2 1	8 15.90	+25 33.4	2.194	3.164	3.8	19.8
2 11	8 7.79	+25 51.0	2.223	3.153	7.2	20.0
2 21	8 1.13	+25 59.2	2.279	3.142	10.4	20.1
3 2	7 56.55	+25 57.9	2.358	3.131	13.1	20.3

258371 2001 XS 1 24.2 95°.24 3°.0/22.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.83	+24 56.8	2.074	2.911	12.1	20.1
1 2	8 44.02	+26 13.8	2.028	2.939	8.7	20.0
1 12	8 35.13	+27 31.4	2.008	2.967	5.2	19.8
1 22	8 25.00	+28 42.8	2.018	2.994	3.0	19.7
2 1	8 14.74	+29 42.1	2.059	3.020	5.0	19.9
2 11	8 5.46	+30 26.0	2.129	3.046	8.2	20.1
2 21	7 58.06	+30 53.8	2.225	3.071	11.2	20.4
3 2	7 53.13	+31 7.1	2.344	3.095	13.8	20.6

350960 2003 AU_{90} 1 24.2 61°.06 5°.4/21.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 50.80	+26 38.2	1.299	2.160	16.3	20.1
1 2	8 45.21	+28 22.0	1.247	2.169	11.9	19.9
1 12	8 36.33	+30 8.4	1.217	2.177	7.6	19.7
1 22	8 25.28	+31 45.0	1.214	2.186	5.4	19.6
2 1	8 13.74	+33 0.5	1.237	2.195	8.0	19.7
2 11	8 3.63	+33 49.1	1.285	2.204	12.3	20.0
2 21	7 56.38	+34 10.9	1.356	2.213	16.4	20.3
3 2	7 52.84	+34 9.9	1.444	2.222	19.7	20.5

203262 2001 QD_{240} 1 24.2 117°.90 0°.1/24.2 18

12 23	8 45.88	+18 7.5	2.510	3.337	10.6	21.3
1 2	8 40.17	+18 28.4	2.441	3.348	7.6	21.1
1 12	8 32.86	+18 54.2	2.399	3.359	4.3	20.9
1 22	8 24.59	+19 22.0	2.387	3.370	0.8	20.7
2 1	8 16.15	+19 48.7	2.405	3.381	2.8	20.8
2 11	8 8.39	+20 11.8	2.454	3.391	6.1	21.1
2 21	8 1.99	+20 29.5	2.530	3.401	9.1	21.3
3 2	7 57.47	+20 41.2	2.631	3.411	11.7	21.5

283125 2008 WF_{37} 1 24.2 273°.79 1°.0/23.6 17

12 23	8 46.04	+20 38.2	2.168	3.006	11.6	20.9
1 2	8 40.70	+21 10.5	2.084	2.996	8.4	20.7
1 12	8 33.36	+21 47.6	2.025	2.987	4.7	20.4
1 22	8 24.71	+22 25.6	1.995	2.977	1.2	20.1
2 1	8 15.68	+23 0.2	1.994	2.968	3.6	20.3
2 11	8 7.30	+23 27.9	2.023	2.958	7.4	20.5
2 21	8 0.48	+23 46.8	2.078	2.948	10.9	20.7
3 2	7 55.89	+23 56.5	2.157	2.939	13.9	20.9

472666 2015 EJ_{3} 1 24.2 170°.55 3°.0/26.4 18

12 23	8 43.59	+ 7 21.6	2.477	3.276	11.6	21.2
1 2	8 38.59	+ 7 37.7	2.395	3.277	8.9	21.0
1 12	8 32.02	+ 8 6.6	2.338	3.278	5.9	20.8
1 22	8 24.45	+ 8 46.7	2.309	3.279	3.4	20.6
2 1	8 16.62	+ 9 35.4	2.310	3.280	3.6	20.6
2 11	8 9.34	+10 28.7	2.342	3.281	6.3	20.8
2 21	8 3.31	+11 22.8	2.401	3.281	9.2	21.0
3 2	7 59.06	+12 14.4	2.485	3.281	11.9	21.2

520997 2015 BG_{514} 1 24.2 250°.46 16°.2/ 3.7 18

12 23	8 47.64	−17 1.0	1.172	1.895	25.8	20.8
1 2	8 43.14	−17 27.9	1.097	1.890	23.3	20.6
1 12	8 35.34	−17 4.1	1.036	1.885	20.4	20.4
1 22	8 25.15	−15 40.3	0.991	1.880	17.8	20.2
2 1	8 14.09	−13 14.3	0.966	1.875	16.3	20.1
2 11	8 4.07	− 9 55.5	0.963	1.869	16.8	20.1
2 21	7 56.68	− 6 3.3	0.983	1.863	19.2	20.2
3 2	7 53.02	− 2 0.8	1.024	1.857	22.4	20.4

8147 Colemanhawkins 1 24.2 88°.06 3°.0/22.6 18

12 23	8 52.81	+25 48.6	1.932	2.769	12.8	18.5
1 2	8 45.45	+26 38.5	1.889	2.800	9.2	18.3
1 12	8 35.91	+27 27.6	1.872	2.830	5.5	18.2
1 22	8 25.15	+28 9.8	1.883	2.860	3.0	18.1
2 1	8 14.38	+28 40.2	1.925	2.889	4.9	18.2
2 11	8 4.79	+28 56.6	1.996	2.918	8.4	18.5
2 21	7 57.30	+28 59.5	2.093	2.946	11.6	18.8
3 2	7 52.44	+28 50.7	2.212	2.973	14.2	19.0

414846 2010 VE_{47} 1 24.2 167°.85 0°.6/24.5 18

12 23	8 48.99	+16 32.9	2.140	2.965	12.2	21.8
1 2	8 42.69	+16 47.5	2.064	2.969	8.9	21.6
1 12	8 34.42	+17 9.2	2.014	2.972	5.1	21.4
1 22	8 24.91	+17 34.8	1.992	2.975	1.2	21.1
2 1	8 15.11	+18 0.8	2.002	2.978	3.1	21.3
2 11	8 6.09	+18 24.3	2.040	2.979	7.0	21.5
2 21	7 58.71	+18 43.0	2.107	2.981	10.6	21.8
3 2	7 53.58	+18 55.8	2.196	2.982	13.6	22.0

198722 2005 CU_{78} 1 24.2 235°.02 0°.2/24.0 17

12 23	8 41.58	+19 16.1	3.647	4.471	7.6	21.3
1 2	8 36.79	+19 33.0	3.556	4.461	5.5	21.1
1 12	8 30.87	+19 52.9	3.492	4.452	3.1	21.0
1 22	8 24.25	+20 13.8	3.458	4.442	0.6	20.7
2 1	8 17.43	+20 33.8	3.456	4.431	2.1	20.9
2 11	8 10.97	+20 51.2	3.486	4.421	4.6	21.0
2 21	8 5.37	+21 4.8	3.544	4.410	6.9	21.2
3 2	8 1.03	+21 13.8	3.628	4.399	8.9	21.3

326459 2001 XC_{92} 1 24.2 65°.05 1°.5/24.9 18

12 23	8 48.17	+14 36.4	1.718	2.551	14.4	20.6
1 2	8 42.37	+14 40.1	1.654	2.562	10.6	20.4
1 12	8 34.32	+14 53.8	1.615	2.572	6.3	20.2
1 22	8 24.89	+15 14.6	1.602	2.583	2.1	19.9
2 1	8 15.24	+15 39.0	1.618	2.594	3.7	20.1
2 11	8 6.59	+16 3.1	1.662	2.605	8.0	20.3
2 21	7 59.91	+16 24.0	1.731	2.616	11.9	20.6
3 2	7 55.85	+16 40.0	1.823	2.628	15.2	20.8

431598 2007 VO_{188} 1 24.2 69°.97 4°.1/21.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 48.55	+30 24.3	2.187	3.027	11.4	21.3
1 2	8 42.38	+31 16.4	2.137	3.046	8.4	21.1
1 12	8 34.20	+32 4.8	2.113	3.065	5.5	21.0
1 22	8 24.86	+32 43.7	2.118	3.084	4.1	20.9
2 1	8 15.38	+33 8.8	2.152	3.103	5.7	21.1
2 11	8 6.87	+33 18.4	2.214	3.122	8.4	21.3
2 21	8 0.18	+33 13.2	2.302	3.141	11.2	21.5
3 2	7 55.85	+32 55.5	2.412	3.160	13.5	21.7

429003 2009 BN_{51} 1 24.2 76°.08 0°.2/24.1 18

12 23	8 45.41	+17 35.9	2.217	3.049	11.6	21.2
1 2	8 40.01	+18 13.3	2.155	3.064	8.3	21.0
1 12	8 32.85	+18 57.2	2.118	3.079	4.7	20.8
1 22	8 24.62	+19 43.8	2.111	3.095	0.8	20.5
2 1	8 16.22	+20 28.8	2.134	3.110	3.1	20.7
2 11	8 8.57	+21 8.5	2.187	3.125	6.7	21.0
2 21	8 2.44	+21 40.8	2.266	3.140	10.0	21.2
3 2	7 58.39	+22 4.6	2.369	3.155	12.7	21.4

160769 2000 SM_{152} 1 24.2 150°.53 2°.2/25.5 18

12 23	8 50.20	+11 18.0	2.038	2.849	13.3	21.2
1 2	8 43.58	+11 31.1	1.966	2.860	9.9	21.0
1 12	8 34.93	+11 55.8	1.919	2.870	6.2	20.8
1 22	8 25.02	+12 29.7	1.901	2.879	2.7	20.6
2 1	8 14.86	+13 9.2	1.913	2.887	3.6	20.7
2 11	8 5.52	+13 50.1	1.955	2.895	7.3	20.9
2 21	7 57.90	+14 29.0	2.025	2.902	10.8	21.1
3 2	7 52.61	+15 3.4	2.118	2.908	13.9	21.3

333577 2006 KQ_{62} 1 24.2 128°.88 1°.6/23.0 18

12 23	8 46.14	+22 6.4	2.391	3.226	10.7	20.6
1 2	8 40.54	+22 59.1	2.322	3.234	7.7	20.4
1 12	8 33.18	+23 55.3	2.281	3.242	4.4	20.2
1 22	8 24.70	+24 50.3	2.269	3.250	1.7	20.1
2 1	8 15.97	+25 39.4	2.288	3.257	3.7	20.2
2 11	8 7.92	+26 19.4	2.336	3.264	7.0	20.4
2 21	8 1.33	+26 48.5	2.412	3.271	10.0	20.6
3 2	7 56.77	+27 6.7	2.511	3.278	12.6	20.8

423310 2005 EO_{219} 1 24.2 358°.72 5°.0/21.5 18

12 23	8 49.59	+32 47.4	2.072	2.912	11.9	20.3
1 2	8 43.40	+33 30.0	2.005	2.912	9.0	20.1
1 12	8 34.93	+34 7.2	1.963	2.912	6.2	20.0
1 22	8 25.03	+34 33.0	1.949	2.911	5.0	19.9
2 1	8 14.85	+34 42.6	1.964	2.911	6.5	20.0
2 11	8 5.65	+34 34.7	2.006	2.911	9.3	20.2
2 21	7 58.42	+34 10.5	2.074	2.912	12.3	20.3
3 2	7 53.81	+33 33.1	2.162	2.912	14.8	20.5

90225 2003 BH_{14} 1 24.2 129°.60 0°.4/24.4 18

12 23	8 51.61	+15 11.4	1.780	2.607	14.2	19.9
1 2	8 44.83	+16 2.1	1.718	2.624	10.3	19.7
1 12	8 35.73	+17 3.7	1.681	2.640	5.9	19.5
1 22	8 25.18	+18 10.7	1.672	2.655	1.2	19.2
2 1	8 14.37	+19 16.8	1.694	2.670	3.6	19.4
2 11	8 4.57	+20 16.5	1.745	2.684	8.1	19.7
2 21	7 56.79	+21 6.1	1.823	2.697	12.0	20.0
3 2	7 51.71	+21 44.4	1.923	2.709	15.2	20.2

242130 2002 XM_{49} 1 24.2 137°.99 6°.4/18.6 18

12 23	8 50.21	+39 32.2	2.646	3.468	10.2	20.5
1 2	8 43.68	+41 1.0	2.593	3.477	8.2	20.3
1 12	8 35.05	+42 21.2	2.567	3.485	6.7	20.3
1 22	8 25.06	+43 26.3	2.570	3.494	6.5	20.3
2 1	8 14.71	+44 11.5	2.602	3.502	7.6	20.3
2 11	8 5.14	+44 35.0	2.662	3.510	9.5	20.5
2 21	7 57.28	+44 38.1	2.745	3.517	11.4	20.6
3 2	7 51.80	+44 24.1	2.849	3.524	13.1	20.8

104761 2000 HF_{22} 1 24.2 182°.85 1°.6/23.2 18

12 23	8 49.52	+23 13.0	2.493	3.322	10.6	21.5
1 2	8 42.94	+23 47.9	2.415	3.323	7.6	21.3
1 12	8 34.53	+24 24.6	2.364	3.324	4.4	21.1
1 22	8 24.96	+24 59.2	2.342	3.323	1.7	20.9
2 1	8 15.10	+25 27.7	2.353	3.322	3.6	21.0
2 11	8 5.92	+25 47.6	2.393	3.320	6.9	21.2
2 21	7 58.22	+25 58.0	2.462	3.317	10.0	21.4
3 2	7 52.60	+25 59.3	2.554	3.314	12.6	21.6

495385 2014 QL_{144} 1 24.2 233°.74 7°.2/20.9 18

12 23	8 57.07	+37 5.8	1.795	2.628	13.8	21.9
1 2	8 49.35	+37 56.6	1.723	2.620	10.9	21.7
1 12	8 38.55	+38 37.5	1.675	2.612	8.2	21.5
1 22	8 25.73	+38 59.8	1.654	2.603	7.2	21.4
2 1	8 12.46	+38 57.2	1.661	2.594	8.7	21.5
2 11	8 0.49	+38 28.8	1.694	2.585	11.6	21.6
2 21	7 51.18	+37 38.3	1.751	2.575	14.8	21.8
3 2	7 45.32	+36 31.7	1.828	2.565	17.6	22.0

333561 2005 YP_{59} 1 24.2 288°.79 0°.2/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 49.92	+19 23.8	1.921	2.755	13.0	20.0
1 2	8 43.74	+19 11.2	1.828	2.738	9.5	19.7
1 12	8 35.22	+19 2.3	1.760	2.720	5.5	19.4
1 22	8 25.11	+18 54.6	1.720	2.703	1.1	19.1
2 1	8 14.52	+18 45.4	1.710	2.686	3.6	19.2
2 11	8 4.70	+18 33.2	1.728	2.668	8.0	19.5
2 21	7 56.70	+18 17.0	1.773	2.651	12.0	19.7
3 2	7 51.30	+17 57.1	1.841	2.634	15.5	19.9

194438 2001 VF_{100} 1 24.2 131°.81 0°.2/24.1 18

12 23	8 52.64	+18 26.8	1.754	2.587	14.1	21.1
1 2	8 45.60	+18 49.3	1.691	2.601	10.2	20.9
1 12	8 36.16	+19 18.5	1.653	2.614	5.8	20.6
1 22	8 25.26	+19 49.8	1.643	2.626	1.0	20.3
2 1	8 14.14	+20 18.4	1.662	2.638	3.8	20.6
2 11	8 4.11	+20 41.0	1.711	2.649	8.2	20.9
2 21	7 56.21	+20 55.7	1.785	2.659	12.2	21.1
3 2	7 51.09	+21 2.3	1.882	2.669	15.4	21.4

289512 2005 EJ_{162} 1 24.2 337°.66 0°.1/24.2 18

12 23	8 44.93	+17 46.3	1.803	2.646	13.3	20.7
1 2	8 40.18	+18 9.2	1.724	2.638	9.7	20.4
1 12	8 33.20	+18 40.4	1.669	2.631	5.6	20.2
1 22	8 24.74	+19 15.8	1.641	2.624	1.0	19.8
2 1	8 15.87	+19 51.0	1.641	2.618	3.6	20.0
2 11	8 7.79	+20 21.9	1.669	2.612	8.0	20.3
2 21	8 1.51	+20 45.6	1.723	2.607	12.0	20.5
3 2	7 57.75	+21 0.8	1.799	2.602	15.4	20.7

238110 2003 KA_{18} 1 24.2 237°.10 2°.9/25.7 18

12 23	8 49.11	+10 4.2	1.851	2.666	14.3	21.6
1 2	8 43.22	+10 12.3	1.759	2.653	10.9	21.3
1 12	8 34.97	+10 34.7	1.690	2.639	7.0	21.1
1 22	8 25.09	+11 9.8	1.649	2.625	3.4	20.8
2 1	8 14.63	+11 54.0	1.637	2.610	4.2	20.8
2 11	8 4.83	+12 42.6	1.653	2.595	8.2	21.0
2 21	7 56.80	+13 30.9	1.697	2.579	12.3	21.2
3 2	7 51.33	+14 15.4	1.762	2.562	15.8	21.4

60505 2000 DB_{104} 1 24.2 53°.38 4°.5/22.5 18

12 23	8 52.87	+26 45.8	1.225	2.086	17.1	18.9
1 2	8 46.68	+27 37.3	1.175	2.097	12.5	18.7
1 12	8 37.12	+28 28.5	1.147	2.108	7.6	18.5
1 22	8 25.47	+29 9.9	1.143	2.120	4.5	18.3
2 1	8 13.58	+29 33.9	1.166	2.132	7.1	18.5
2 11	8 3.36	+29 37.3	1.214	2.144	11.7	18.8
2 21	7 56.21	+29 21.9	1.284	2.157	16.0	19.1
3 2	7 52.82	+28 51.6	1.372	2.169	19.6	19.4

78950 2003 SC_{204} 1 24.2 57°.20 1°.3/23.5 18

12 23	8 46.96	+21 16.2	1.924	2.766	12.6	19.9
1 2	8 41.42	+21 51.6	1.861	2.776	9.1	19.7
1 12	8 33.78	+22 31.4	1.823	2.785	5.1	19.5
1 22	8 24.84	+23 10.6	1.813	2.795	1.5	19.2
2 1	8 15.67	+23 44.7	1.832	2.805	3.9	19.4
2 11	8 7.42	+24 10.1	1.880	2.815	7.8	19.7
2 21	8 0.97	+24 25.4	1.954	2.826	11.4	19.9
3 2	7 56.96	+24 30.7	2.050	2.836	14.4	20.1

470867 2008 YU_{158} 1 24.2 315°.94 3°.4/26.8 16

12 23	8 43.66	+ 4 45.8	1.942	2.744	14.2	21.2
1 2	8 39.39	+ 5 52.0	1.826	2.710	11.1	21.0
1 12	8 32.90	+ 7 23.7	1.734	2.676	7.5	20.7
1 22	8 24.74	+ 9 18.5	1.670	2.643	4.1	20.4
2 1	8 15.79	+11 30.7	1.635	2.609	4.2	20.3
2 11	8 7.16	+13 51.4	1.632	2.576	8.0	20.5
2 21	7 59.96	+16 10.9	1.656	2.543	12.2	20.7
3 2	7 55.09	+18 21.1	1.705	2.511	16.0	20.8

38237 Roche 1 24.2 275°.04 0°.2/24.3 18

12 23	8 49.67	+17 33.9	1.620	2.460	14.7	19.4
1 2	8 43.99	+17 49.2	1.530	2.443	10.9	19.1
1 12	8 35.58	+18 13.5	1.464	2.425	6.3	18.8
1 22	8 25.23	+18 42.9	1.424	2.408	1.2	18.5
2 1	8 14.20	+19 12.5	1.413	2.390	4.0	18.6
2 11	8 3.98	+19 37.9	1.429	2.372	9.1	18.9
2 21	7 55.86	+19 56.2	1.471	2.353	13.8	19.1
3 2	7 50.74	+20 6.3	1.533	2.335	17.7	19.3

124562 2001 SU 1 24.2 98°.22 5°.8/27.9 18

12 23	8 48.26	+ 0 51.6	2.069	2.841	14.4	19.7
1 2	8 42.01	+ 0 38.7	2.011	2.867	11.6	19.5
1 12	8 33.96	+ 0 44.6	1.976	2.892	8.6	19.4
1 22	8 24.87	+ 1 9.0	1.968	2.916	6.3	19.3
2 1	8 15.66	+ 1 49.4	1.988	2.940	6.0	19.3
2 11	8 7.30	+ 2 41.6	2.037	2.963	8.0	19.5
2 21	8 0.58	+ 3 40.2	2.113	2.985	10.6	19.7
3 2	7 56.00	+ 4 40.3	2.213	3.007	13.2	19.9

346831 2009 DE_{12} 1 24.2 166°.63 0°.4/24.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 44.53	+16 30.9	2.421	3.249	10.9	21.5
1 2	8 39.36	+16 55.8	2.343	3.249	7.9	21.3
1 12	8 32.51	+17 27.5	2.291	3.250	4.6	21.1
1 22	8 24.62	+18 3.0	2.268	3.251	1.0	20.8
2 1	8 16.46	+18 39.1	2.275	3.251	2.8	20.9
2 11	8 8.91	+19 12.4	2.312	3.251	6.3	21.2
2 21	8 2.71	+19 40.8	2.376	3.252	9.5	21.4
3 2	7 58.40	+20 2.7	2.465	3.252	12.2	21.6

183993 2004 EV_{60} 1 24.2 281°.54 1°.2/24.8 18

12 23	8 47.56	+14 51.7	1.724	2.558	14.2	21.1
1 2	8 42.22	+15 4.8	1.639	2.547	10.6	20.9
1 12	8 34.44	+15 28.9	1.577	2.536	6.3	20.6
1 22	8 25.01	+16 0.9	1.542	2.524	1.9	20.3
2 1	8 15.05	+16 36.4	1.536	2.513	3.7	20.4
2 11	8 5.87	+17 11.1	1.558	2.502	8.4	20.6
2 21	7 58.60	+17 41.3	1.605	2.490	12.7	20.9
3 2	7 54.02	+18 4.9	1.674	2.479	16.3	21.1

410751 2009 DK_{47} 1 24.2 235°.08 2°.9/22.6 18

12 23	8 51.01	+25 3.3	1.890	2.731	12.9	21.9
1 2	8 44.70	+25 52.9	1.806	2.720	9.4	21.7
1 12	8 35.85	+26 44.9	1.748	2.708	5.6	21.4
1 22	8 25.27	+27 33.0	1.718	2.696	3.0	21.2
2 1	8 14.14	+28 11.1	1.718	2.684	5.2	21.4
2 11	8 3.83	+28 35.2	1.746	2.671	9.2	21.6
2 21	7 55.49	+28 44.4	1.800	2.657	12.9	21.8
3 2	7 49.95	+28 40.0	1.875	2.643	16.2	21.9

5324 Lyapunov 1 24.2 131°.40 4°.3/20.5 17

12 23	8 52.20	+38 22.4	3.664	4.472	7.9	22.1
1 2	8 44.38	+39 3.9	3.614	4.495	6.2	22.0
1 12	8 35.14	+39 38.0	3.592	4.516	4.8	22.0
1 22	8 25.08	+40 1.0	3.601	4.537	4.3	21.9
2 1	8 14.96	+40 10.7	3.641	4.557	5.1	22.0
2 11	8 5.54	+40 6.5	3.712	4.576	6.6	22.2
2 21	7 57.44	+39 49.6	3.810	4.594	8.3	22.3
3 2	7 51.12	+39 22.2	3.931	4.611	9.7	22.4

207557 2006 MS_{7} 1 24.2 131°.70 0°.5/23.8 18

12 23	8 45.01	+18 23.2	2.446	3.277	10.7	20.6
1 2	8 39.70	+19 10.3	2.374	3.283	7.7	20.4
1 12	8 32.70	+20 3.5	2.328	3.289	4.3	20.2
1 22	8 24.66	+20 58.8	2.312	3.295	0.8	19.9
2 1	8 16.35	+21 51.9	2.326	3.300	3.0	20.1
2 11	8 8.67	+22 39.0	2.371	3.306	6.4	20.4
2 21	8 2.34	+23 17.9	2.443	3.311	9.5	20.6
3 2	7 57.94	+23 47.5	2.539	3.316	12.2	20.8

511684 2015 BN_{509} 1 24.2 277°.90 0°.1/23.9 18 R

12 23	9 28.23	+12 37.3	0.556	1.408	32.3	21.5
1 2	9 24.21	+13 25.6	0.439	1.354	26.8	20.8
1 12	9 9.53	+15 26.5	0.332	1.293	18.2	19.8
1 22	8 34.96	+19 27.5	0.240	1.223	4.1	18.4
2 1	7 20.11	+25 58.6	0.171	1.144	20.2	18.2
2 11	5 3.37	+30 39.5	0.141	1.056	57.1	18.6
2 21	2 41.37	+25 57.4	0.157	0.959	96.3	20.0
3 2	1 12.62	+17 49.1	0.204	0.853	127.9	22.4

322873 2001 VX_{52} 1 24.2 172°.30 5°.8/27.3 18

12 23	8 47.73	+ 2 20.2	2.133	2.911	13.9	20.7
1 2	8 41.78	+ 1 46.0	2.053	2.913	11.2	20.5
1 12	8 33.94	+ 1 27.8	1.997	2.915	8.4	20.3
1 22	8 24.90	+ 1 26.5	1.967	2.917	6.2	20.2
2 1	8 15.54	+ 1 41.3	1.966	2.918	6.1	20.2
2 11	8 6.87	+ 2 9.4	1.994	2.918	8.2	20.3
2 21	7 59.72	+ 2 46.7	2.048	2.919	11.0	20.5
3 2	7 54.71	+ 3 28.6	2.126	2.919	13.7	20.7

246447 2007 VB_{190} 1 24.2 65°.72 7°.4/18.9 18

12 23	8 50.77	+39 23.2	2.153	2.983	11.9	20.2
1 2	8 44.34	+40 57.2	2.115	3.004	9.6	20.0
1 12	8 35.50	+42 20.2	2.103	3.025	7.8	20.0
1 22	8 25.18	+43 24.6	2.118	3.046	7.4	20.0
2 1	8 14.64	+44 5.1	2.162	3.066	8.7	20.1
2 11	8 5.18	+44 20.4	2.231	3.087	10.7	20.3
2 21	7 57.86	+44 13.1	2.323	3.108	12.9	20.4
3 2	7 53.31	+43 47.3	2.435	3.129	14.7	20.6

225535 2000 SN_{63} 1 24.2 116°.23 4°.2/21.8 18

12 23	8 51.34	+30 10.2	2.100	2.937	11.9	20.7
1 2	8 44.52	+31 0.3	2.043	2.951	8.8	20.5
1 12	8 35.51	+31 46.8	2.012	2.965	5.7	20.3
1 22	8 25.18	+32 23.5	2.010	2.978	4.2	20.3
2 1	8 14.67	+32 45.9	2.037	2.990	5.8	20.4
2 11	8 5.18	+32 52.1	2.093	3.002	8.8	20.6
2 21	7 57.64	+32 43.0	2.174	3.014	11.7	20.8
3 2	7 52.66	+32 21.2	2.278	3.026	14.2	21.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
111025 2001 VA_{16}			1 24.2 101°.29		2°.9/21.9 18	
	h m	° ′			°	m
12 23	8 47.39	+27 11.4	2.647	3.480	9.9	19.9
1 2	8 41.29	+28 14.7	2.594	3.503	7.1	19.7
1 12	8 33.54	+29 17.0	2.569	3.525	4.4	19.6
1 22	8 24.81	+30 13.3	2.575	3.547	2.9	19.5
2 1	8 15.92	+30 59.6	2.611	3.568	4.4	19.6
2 11	8 7.75	+31 33.3	2.678	3.589	7.0	19.8
2 21	8 1.01	+31 53.9	2.771	3.609	9.5	20.0
3 2	7 56.22	+32 2.5	2.888	3.629	11.7	20.2
363826 2005 ON_{7}			1 24.2 109°.83		1°.2/23.4 18	
12 23	8 48.86	+18 58.4	2.042	2.875	12.4	21.0
1 2	8 42.68	+20 8.8	1.983	2.894	8.9	20.8
1 12	8 34.47	+21 26.0	1.950	2.912	5.0	20.6
1 22	8 25.00	+22 43.9	1.947	2.929	1.3	20.4
2 1	8 15.28	+23 56.3	1.974	2.947	3.8	20.6
2 11	8 6.43	+24 58.1	2.032	2.963	7.6	20.8
2 21	7 59.31	+25 47.1	2.116	2.980	11.0	21.1
3 2	7 54.56	+26 22.6	2.224	2.995	13.8	21.3
20082 1994 EG_{7}			1 24.2 21°.00		0°.3/24.1 18	
12 23	8 46.72	+16 25.4	1.333	2.186	16.5	18.3
1 2	8 42.03	+17 20.5	1.270	2.189	12.0	18.0
1 12	8 34.47	+18 29.8	1.229	2.193	6.8	17.8
1 22	8 25.03	+19 46.2	1.214	2.198	1.2	17.4
2 1	8 15.14	+21 1.1	1.226	2.203	4.5	17.7
2 11	8 6.40	+22 6.8	1.264	2.208	9.8	18.0
2 21	8 0.08	+22 58.7	1.325	2.214	14.5	18.3
3 2	7 57.00	+23 34.9	1.407	2.221	18.4	18.5
13743 Rivkin			1 24.2 161°.61		0°.2/24.1 18	
12 23	8 51.27	+17 9.1	1.701	2.535	14.4	19.2
1 2	8 44.83	+17 52.0	1.631	2.541	10.5	19.0
1 12	8 35.88	+18 44.7	1.585	2.546	6.0	18.7
1 22	8 25.29	+19 41.7	1.567	2.550	1.1	18.4
2 1	8 14.30	+20 36.9	1.578	2.554	3.9	18.6
2 11	8 4.29	+21 24.7	1.618	2.557	8.6	18.9
2 21	7 56.38	+22 2.3	1.684	2.559	12.7	19.1
3 2	7 51.31	+22 28.7	1.772	2.561	16.2	19.4
511130 2013 WV_{107}			1 24.2 356°.34		1°.3/27.3 18	
12 23	8 31.15	+ 4 35.0	9.986	10.753	3.4	20.4
1 2	8 28.86	+ 4 28.5	9.896	10.752	2.7	20.3
1 12	8 26.26	+ 4 25.4	9.832	10.750	2.0	20.3
1 22	8 23.47	+ 4 25.4	9.798	10.749	1.4	20.2
2 1	8 20.64	+ 4 28.2	9.795	10.747	1.4	20.2
2 11	8 17.92	+ 4 33.3	9.821	10.746	1.9	20.2
2 21	8 15.44	+ 4 40.2	9.878	10.745	2.6	20.3
3 2	8 13.34	+ 4 48.2	9.961	10.744	3.4	20.4
406033 2006 TF_{90}			1 24.2 107°.15		0°.6/24.5 18	
12 23	8 50.21	+16 21.9	1.925	2.752	13.3	22.1
1 2	8 43.63	+16 38.6	1.865	2.771	9.6	21.9
1 12	8 34.98	+17 3.0	1.830	2.789	5.5	21.7
1 22	8 25.11	+17 31.4	1.823	2.806	1.3	21.4
2 1	8 15.08	+18 0.1	1.847	2.823	3.3	21.6
2 11	8 6.02	+18 25.5	1.900	2.840	7.4	21.9
2 21	7 58.84	+18 45.6	1.979	2.856	11.0	22.1
3 2	7 54.10	+18 59.2	2.082	2.871	14.1	22.4
449227 2013 CF_{117}			1 24.2 355°.97		0°.2/24.2 18	
12 23	8 40.87	+15 3.9	0.978	1.854	19.2	19.6
1 2	8 38.54	+16 7.4	0.916	1.846	14.1	19.2
1 12	8 32.84	+17 33.3	0.874	1.841	8.1	18.9
1 22	8 24.79	+19 13.3	0.854	1.837	1.5	18.5
2 1	8 16.04	+20 55.2	0.857	1.835	5.3	18.7
2 11	8 8.59	+22 26.6	0.883	1.835	11.6	19.1
2 21	8 4.03	+23 39.2	0.930	1.837	17.3	19.4
3 2	8 3.33	+24 29.4	0.994	1.841	21.9	19.7
412579 2014 OC_{21}			1 24.2 174°.07		0°.2/24.3 18	
12 23	8 50.29	+16 52.1	1.998	2.825	12.9	22.8
1 2	8 43.82	+17 21.1	1.922	2.828	9.4	22.6
1 12	8 35.19	+17 58.1	1.871	2.831	5.4	22.4
1 22	8 25.17	+18 39.2	1.850	2.833	1.1	22.1
2 1	8 14.79	+19 19.6	1.858	2.834	3.4	22.2
2 11	8 5.23	+19 55.6	1.896	2.834	7.6	22.5
2 21	7 57.45	+20 24.4	1.961	2.834	11.3	22.7
3 2	7 52.12	+20 45.1	2.049	2.833	14.5	22.9
497966 2007 BO_{11}			1 24.2 262°.42		1°.1/23.5 17	
12 23	8 46.78	+18 44.7	1.960	2.798	12.6	21.1
1 2	8 41.54	+19 50.5	1.873	2.786	9.2	20.9
1 12	8 34.05	+21 6.0	1.811	2.773	5.2	20.6
1 22	8 24.98	+22 25.3	1.778	2.761	1.3	20.3
2 1	8 15.35	+23 41.8	1.775	2.748	4.0	20.5
2 11	8 6.36	+24 49.4	1.801	2.735	8.2	20.7
2 21	7 59.04	+25 44.5	1.854	2.722	12.1	20.9
3 2	7 54.20	+26 25.5	1.929	2.709	15.4	21.1

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
89485 2001 XK_{31}			1 24.2 88°.40		1°.7/25.0 18	
	h m	° ′			°	m
12 23	8 54.03	+13 50.3	1.577	2.403	15.8	19.6
1 2	8 46.54	+13 58.2	1.530	2.433	11.6	19.4
1 12	8 36.65	+14 17.5	1.507	2.463	6.9	19.2
1 22	8 25.41	+14 44.3	1.511	2.492	2.3	18.9
2 1	8 14.17	+15 14.3	1.545	2.521	3.9	19.1
2 11	8 4.28	+15 43.1	1.607	2.548	8.3	19.4
2 21	7 56.72	+16 8.0	1.694	2.575	12.3	19.7
3 2	7 52.05	+16 27.2	1.804	2.602	15.6	20.0
356519 2011 SC_{87}			1 24.2 98°.87		2°.1/23.4 18	
12 23	8 53.13	+23 17.8	1.573	2.418	14.8	21.1
1 2	8 46.22	+23 45.4	1.516	2.431	10.7	20.9
1 12	8 36.63	+24 15.3	1.482	2.444	6.1	20.7
1 22	8 25.43	+24 41.6	1.476	2.458	2.2	20.5
2 1	8 14.03	+24 59.0	1.499	2.470	4.8	20.7
2 11	8 3.94	+25 4.8	1.549	2.483	9.3	20.9
2 21	7 56.28	+24 58.9	1.624	2.495	13.3	21.2
3 2	7 51.71	+24 43.2	1.720	2.507	16.7	21.5
333703 2008 WB_{141}			1 24.2 129°.72		2°.9/22.2 18	
12 23	8 47.30	+26 13.6	2.318	3.156	10.9	20.8
1 2	8 41.51	+27 11.4	2.252	3.163	7.9	20.6
1 12	8 33.81	+28 9.6	2.212	3.170	4.8	20.4
1 22	8 24.91	+29 3.0	2.202	3.177	2.9	20.3
2 1	8 15.73	+29 46.5	2.223	3.183	4.7	20.5
2 11	8 7.30	+30 17.3	2.272	3.190	7.7	20.7
2 21	8 0.45	+30 34.6	2.348	3.196	10.7	20.8
3 2	7 55.79	+30 39.3	2.446	3.202	13.2	21.0
284357 2006 SA_{78}			1 24.2 184°.33		2°.5/26.2 17	
12 23	8 43.34	+ 8 40.7	2.701	3.502	10.7	21.6
1 2	8 38.36	+ 9 0.0	2.617	3.502	8.1	21.4
1 12	8 31.93	+ 9 30.4	2.558	3.502	5.3	21.2
1 22	8 24.57	+10 10.2	2.528	3.501	2.8	21.0
2 1	8 16.96	+10 56.6	2.529	3.501	3.1	21.1
2 11	8 9.84	+11 46.5	2.561	3.500	5.8	21.2
2 21	8 3.86	+12 36.3	2.620	3.499	8.6	21.4
3 2	7 59.53	+13 23.2	2.705	3.497	11.1	21.6
323919 2005 TG_{88}			1 24.2 111°.54		1°.1/23.6 18	
12 23	8 49.59	+20 30.7	2.078	2.911	12.2	21.5
1 2	8 43.14	+21 8.9	2.019	2.929	8.8	21.4
1 12	8 34.71	+21 51.3	1.985	2.947	4.9	21.2
1 22	8 25.08	+22 33.4	1.981	2.964	1.3	20.9
2 1	8 15.28	+23 10.5	2.007	2.980	3.6	21.1
2 11	8 6.40	+23 39.5	2.063	2.997	7.4	21.4
2 21	7 59.28	+23 58.9	2.146	3.012	10.7	21.6
3 2	7 54.50	+24 8.8	2.251	3.027	13.6	21.8
235007 2003 DD_{8}			1 24.2 219°.23		3°.2/22.9 18	
12 23	8 54.17	+26 8.9	1.638	2.482	14.4	20.8
1 2	8 47.21	+26 37.8	1.563	2.477	10.6	20.5
1 12	8 37.36	+27 6.6	1.512	2.472	6.3	20.2
1 22	8 25.61	+27 28.7	1.488	2.466	3.2	20.0
2 1	8 13.39	+27 38.7	1.492	2.460	5.6	20.2
2 11	8 2.31	+27 33.8	1.525	2.453	9.9	20.4
2 21	7 53.64	+27 14.8	1.582	2.446	14.0	20.6
3 2	7 48.20	+26 44.4	1.660	2.439	17.5	20.9
450979 2008 SO_{28}			1 24.2 136°.41		0°.3/24.4 18	
12 23	8 53.46	+17 2.0	1.999	2.820	13.1	22.4
1 2	8 45.95	+17 25.5	1.935	2.839	9.5	22.2
1 12	8 36.30	+17 56.0	1.898	2.856	5.4	22.0
1 22	8 25.38	+18 29.3	1.890	2.873	1.1	21.7
2 1	8 14.28	+19 1.3	1.913	2.888	3.3	21.9
2 11	8 4.17	+19 28.6	1.966	2.903	7.4	22.2
2 21	7 55.96	+19 49.4	2.046	2.916	11.0	22.5
3 2	7 50.27	+20 2.9	2.150	2.928	14.0	22.7
168719 2000 KF_{7}			1 24.2 201°.74		2°.4/22.4 18	
12 23	8 46.03	+24 56.7	2.526	3.363	10.2	20.3
1 2	8 40.54	+25 54.4	2.449	3.361	7.4	20.1
1 12	8 33.27	+26 54.0	2.399	3.358	4.4	19.9
1 22	8 24.83	+27 50.5	2.378	3.355	2.4	19.8
2 1	8 16.07	+28 39.5	2.389	3.352	4.2	19.9
2 11	8 7.89	+29 17.5	2.429	3.349	7.2	20.1
2 21	8 1.10	+29 43.2	2.496	3.345	10.1	20.3
3 2	7 56.31	+29 57.0	2.586	3.341	12.5	20.4
172007 2001 UG_{53}			1 24.2 149°.67		5°.5/19.0 18	
12 23	8 49.61	+39 19.9	3.098	3.915	9.0	20.3
1 2	8 43.00	+40 35.9	3.043	3.925	7.2	20.2
1 12	8 34.61	+41 44.3	3.016	3.934	5.8	20.1
1 22	8 25.08	+42 39.8	3.018	3.943	5.6	20.1
2 1	8 15.25	+43 18.6	3.050	3.952	6.6	20.2
2 11	8 6.08	+43 39.2	3.110	3.959	8.2	20.3
2 21	7 58.34	+43 42.5	3.195	3.967	10.0	20.5
3 2	7 52.64	+43 30.9	3.302	3.974	11.5	20.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
456076 2006 BM_{36}			1 24.2 265°.92		1°.8/23.2 17	
	h m	° ′			°	m
12 23	8 47.92	+23 4.9	2.085	2.924	11.9	21.5
1 2	8 42.22	+23 37.2	1.999	2.912	8.7	21.3
1 12	8 34.36	+24 12.6	1.939	2.900	5.0	21.1
1 22	8 25.06	+24 46.4	1.907	2.888	1.9	20.8
2 1	8 15.31	+25 14.1	1.905	2.875	4.1	21.0
2 11	8 6.27	+25 32.4	1.931	2.863	8.0	21.2
2 21	7 58.93	+25 40.1	1.984	2.850	11.5	21.4
3 2	7 53.98	+25 37.6	2.060	2.837	14.6	21.6
243521 2010 CF_{63}			1 24.2 70°.57		0°.3/24.0 18	
12 23	8 46.04	+18 32.1	2.099	2.934	12.0	20.7
1 2	8 40.64	+19 2.3	2.031	2.942	8.7	20.5
1 12	8 33.34	+19 38.6	1.989	2.950	4.9	20.3
1 22	8 24.86	+20 17.1	1.974	2.958	0.9	20.0
2 1	8 16.13	+20 53.8	1.990	2.966	3.3	20.2
2 11	8 8.19	+21 25.0	2.035	2.974	7.1	20.4
2 21	8 1.86	+21 48.8	2.107	2.982	10.5	20.7
3 2	7 57.73	+22 4.3	2.201	2.990	13.4	20.9
520962 2014 YU_{60}			1 24.2 197°.65		2°.2/25.3 17	
12 23	8 48.35	+12 45.6	2.383	3.194	11.6	21.8
1 2	8 42.11	+12 26.7	2.298	3.192	8.7	21.6
1 12	8 34.11	+12 15.4	2.240	3.190	5.4	21.4
1 22	8 25.00	+12 10.6	2.210	3.187	2.5	21.2
2 1	8 15.62	+12 10.8	2.211	3.184	3.3	21.3
2 11	8 6.89	+12 14.2	2.242	3.180	6.6	21.5
2 21	7 59.58	+12 18.8	2.301	3.177	9.8	21.7
3 2	7 54.27	+12 23.1	2.385	3.173	12.5	21.8
284092 2005 MQ_{27}			1 24.2 158°.54		0°.3/24.5 17	
12 23	8 44.07	+16 10.2	2.753	3.575	9.9	21.4
1 2	8 38.88	+16 42.9	2.675	3.578	7.2	21.2
1 12	8 32.22	+17 22.1	2.624	3.582	4.1	21.0
1 22	8 24.65	+18 4.8	2.603	3.585	0.9	20.8
2 1	8 16.84	+18 47.8	2.613	3.589	2.5	20.9
2 11	8 9.56	+19 28.1	2.653	3.592	5.7	21.2
2 21	8 3.46	+20 3.3	2.722	3.594	8.6	21.3
3 2	7 59.03	+20 32.2	2.816	3.597	11.0	21.5
80190 1999 VF_{38}			1 24.2 316°.79		5°.2/26.1 18	
12 23	8 48.17	+ 8 26.1	1.247	2.082	18.6	19.2
1 2	8 43.32	+ 8 1.0	1.172	2.074	14.4	18.9
1 12	8 35.39	+ 7 55.7	1.117	2.065	9.8	18.7
1 22	8 25.30	+ 8 10.2	1.085	2.057	5.7	18.4
2 1	8 14.54	+ 8 41.9	1.078	2.050	6.3	18.4
2 11	8 4.83	+ 9 25.2	1.096	2.042	10.7	18.6
2 21	7 57.63	+10 13.5	1.137	2.036	15.6	18.9
3 2	7 53.87	+11 0.7	1.197	2.029	19.9	19.1
105522 2000 RH_{25}			1 24.2 215°.24		7°.7/31.2 18	
12 23	8 42.85	−11 54.3	3.044	3.722	12.2	20.3
1 2	8 37.93	−12 12.8	2.949	3.715	10.7	20.2
1 12	8 31.68	−12 12.1	2.876	3.707	9.2	20.1
1 22	8 24.56	−11 50.6	2.827	3.699	8.1	20.0
2 1	8 17.16	−11 8.6	2.805	3.691	7.7	19.9
2 11	8 10.16	−10 8.4	2.810	3.682	8.2	19.9
2 21	8 4.15	− 8 54.0	2.842	3.673	9.5	20.0
3 2	7 59.61	− 7 30.5	2.899	3.663	11.1	20.1
227482 2005 WG_{202}			1 24.2 160°.24		1°.8/25.3 18	
12 23	8 47.38	+12 43.3	2.198	3.015	12.2	21.3
1 2	8 41.53	+12 51.8	2.121	3.019	9.1	21.1
1 12	8 33.82	+13 10.0	2.070	3.023	5.6	20.9
1 22	8 24.96	+13 35.6	2.047	3.026	2.2	20.7
2 1	8 15.82	+14 5.7	2.054	3.029	3.2	20.8
2 11	8 7.39	+14 36.8	2.091	3.032	6.8	21.0
2 21	8 0.48	+15 6.2	2.156	3.035	10.2	21.2
3 2	7 55.68	+15 31.7	2.244	3.037	13.1	21.4
160535 1996 TC_{64}			1 24.3 78°.29		6°.7/21.5 17	
12 23	8 57.56	+33 55.2	1.497	2.342	15.5	19.9
1 2	8 49.61	+34 57.1	1.459	2.367	11.7	19.7
1 12	8 38.59	+35 49.3	1.445	2.391	8.2	19.6
1 22	8 25.83	+36 22.7	1.457	2.416	6.7	19.5
2 1	8 13.11	+36 31.4	1.496	2.440	8.4	19.7
2 11	8 2.18	+36 15.4	1.561	2.464	11.6	19.9
2 21	7 54.22	+35 38.9	1.649	2.488	14.9	20.2
3 2	7 49.80	+34 47.9	1.757	2.511	17.6	20.4
150265 1999 RW_{116}			1 24.3 210°.84		1°.7/25.5 18	
12 23	8 46.28	+11 35.1	2.632	3.438	10.7	20.8
1 2	8 40.59	+11 58.2	2.539	3.431	8.0	20.6
1 12	8 33.27	+12 31.0	2.472	3.422	5.0	20.4
1 22	8 24.87	+13 11.5	2.435	3.413	2.1	20.1
2 1	8 16.14	+13 56.6	2.429	3.403	2.9	20.2
2 11	8 7.89	+14 42.8	2.454	3.393	6.0	20.4
2 21	8 0.84	+15 27.1	2.508	3.382	9.1	20.6
3 2	7 55.58	+16 7.2	2.587	3.370	11.8	20.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
147660 2004 JP_{44}			1 24.3 325°.90		2°.4/25.3 18	
	h m	° ′			°	m
12 23	8 47.11	+12 21.1	1.229	2.077	17.9	19.6
1 2	8 42.63	+12 36.6	1.155	2.069	13.5	19.3
1 12	8 35.03	+13 10.9	1.102	2.061	8.3	19.0
1 22	8 25.26	+14 0.4	1.073	2.053	3.1	18.6
2 1	8 14.79	+14 58.9	1.069	2.046	4.8	18.7
2 11	8 5.41	+15 58.7	1.090	2.040	10.3	19.0
2 21	7 58.56	+16 53.3	1.134	2.034	15.5	19.3
3 2	7 55.21	+17 38.3	1.198	2.029	20.0	19.5
463492 2013 QD_{38}			1 24.3 205°.36		1°.4/24.9 16	
12 23	8 50.08	+14 50.8	2.424	3.236	11.4	22.0
1 2	8 43.39	+14 41.1	2.334	3.231	8.4	21.8
1 12	8 34.87	+14 37.6	2.271	3.224	5.1	21.5
1 22	8 25.17	+14 38.6	2.237	3.218	1.8	21.3
2 1	8 15.16	+14 42.4	2.235	3.210	3.0	21.4
2 11	8 5.78	+14 46.8	2.264	3.202	6.5	21.6
2 21	7 57.85	+14 50.4	2.321	3.193	9.8	21.8
3 2	7 51.96	+14 52.0	2.402	3.183	12.7	22.0
304016 2006 DB_{11}			1 24.3 268°.90		2°.9/22.7 18	
12 23	8 49.74	+22 53.4	1.512	2.364	14.9	20.2
1 2	8 44.23	+23 58.3	1.439	2.358	10.9	19.9
1 12	8 35.81	+25 9.9	1.390	2.352	6.3	19.7
1 22	8 25.39	+26 19.9	1.367	2.346	2.9	19.4
2 1	8 14.36	+27 19.9	1.372	2.340	5.7	19.6
2 11	8 4.35	+28 4.0	1.403	2.334	10.4	19.8
2 21	7 56.69	+28 30.1	1.459	2.328	14.7	20.1
3 2	7 52.28	+28 39.2	1.534	2.322	18.3	20.3
324461 2006 UP_{16}			1 24.3 347°.85		5°.1/21.7 18	
12 23	8 42.64	+25 48.6	1.135	2.014	16.8	19.2
1 2	8 39.80	+27 8.0	1.068	2.000	12.4	18.9
1 12	8 33.60	+28 33.4	1.023	1.987	7.7	18.6
1 22	8 25.01	+29 53.8	1.000	1.976	5.1	18.4
2 1	8 15.67	+30 57.8	1.002	1.967	8.1	18.5
2 11	8 7.57	+31 37.6	1.027	1.960	13.0	18.8
2 21	8 2.32	+31 51.5	1.072	1.955	17.7	19.0
3 2	8 0.89	+31 41.8	1.134	1.952	21.7	19.3
243385 2008 YD_{49}			1 24.3 230°.38		1°.1/23.5 17	
12 23	8 45.29	+21 3.4	2.553	3.385	10.2	20.9
1 2	8 39.96	+21 41.4	2.468	3.379	7.4	20.7
1 12	8 32.94	+22 23.5	2.411	3.372	4.2	20.5
1 22	8 24.82	+23 5.8	2.383	3.365	1.2	20.3
2 1	8 16.38	+23 44.5	2.386	3.358	3.2	20.4
2 11	8 8.49	+24 16.7	2.419	3.351	6.5	20.6
2 21	8 1.91	+24 40.4	2.480	3.344	9.6	20.8
3 2	7 57.22	+24 55.3	2.564	3.336	12.2	21.0
59691 1999 JM_{113}			1 24.3 300°.71		4°.8/26.5 18	
12 23	8 46.59	+ 6 52.4	1.792	2.602	14.9	19.1
1 2	8 41.38	+ 6 28.3	1.708	2.594	11.6	18.8
1 12	8 33.95	+ 6 19.6	1.647	2.587	8.1	18.6
1 22	8 25.03	+ 6 26.5	1.612	2.579	5.2	18.4
2 1	8 15.66	+ 6 47.3	1.605	2.571	5.4	18.4
2 11	8 7.03	+ 7 18.7	1.625	2.564	8.6	18.6
2 21	8 0.15	+ 7 56.0	1.671	2.557	12.2	18.8
3 2	7 55.75	+ 8 34.8	1.739	2.550	15.6	19.0
369506 2010 VG_{91}			1 24.3 241°.36		3°.0/25.7 18	
12 23	8 48.27	+10 23.8	2.061	2.872	13.1	21.2
1 2	8 42.41	+10 15.0	1.968	2.860	10.0	21.0
1 12	8 34.48	+10 17.7	1.900	2.848	6.5	20.8
1 22	8 25.13	+10 30.7	1.860	2.835	3.4	20.5
2 1	8 15.32	+10 51.9	1.850	2.822	4.0	20.6
2 11	8 6.15	+11 18.2	1.868	2.808	7.5	20.7
2 21	7 58.54	+11 46.2	1.914	2.794	11.2	20.9
3 2	7 53.22	+12 13.0	1.982	2.779	14.4	21.1
11157 1998 AJ			1 24.3 42°.23		0°.2/24.1 18	
12 23	8 45.58	+17 45.1	1.859	2.699	13.1	17.5
1 2	8 40.45	+18 19.8	1.800	2.714	9.5	17.3
1 12	8 33.29	+19 2.1	1.767	2.729	5.3	17.1
1 22	8 24.88	+19 47.4	1.760	2.744	1.0	16.8
2 1	8 16.28	+20 31.0	1.783	2.759	3.4	17.0
2 11	8 8.59	+21 8.7	1.834	2.775	7.6	17.3
2 21	8 2.69	+21 38.1	1.911	2.792	11.2	17.5
3 2	7 59.16	+21 58.0	2.011	2.808	14.2	17.8
33803 1999 VK_{210}			1 24.3 158°.05		3°.2/25.9 18	
12 23	8 51.18	+ 8 46.8	1.783	2.592	15.0	20.0
1 2	8 44.61	+ 9 2.0	1.710	2.600	11.4	19.7
1 12	8 35.73	+ 9 33.2	1.661	2.608	7.4	19.5
1 22	8 25.36	+10 18.0	1.640	2.614	3.8	19.3
2 1	8 14.63	+11 11.9	1.648	2.620	4.3	19.4
2 11	8 4.81	+12 9.6	1.685	2.625	8.1	19.6
2 21	7 56.92	+13 5.9	1.748	2.629	12.0	19.8
3 2	7 51.65	+13 57.1	1.835	2.633	15.4	20.1

271179 2003 SH_{281} 1 24.3 235°.08 1°.0/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 45.45	+14 11.6	2.148	2.974	12.2	20.3
1 2	8 40.27	+14 40.8	2.067	2.971	9.0	20.0
1 12	8 33.20	+15 20.1	2.010	2.967	5.3	19.8
1 22	8 24.88	+16 6.3	1.982	2.964	1.6	19.5
2 1	8 16.22	+16 55.3	1.984	2.960	3.1	19.7
2 11	8 8.19	+17 42.7	2.015	2.957	6.9	19.9
2 21	8 1.66	+18 25.4	2.073	2.953	10.5	20.1
3 2	7 57.26	+19 0.9	2.155	2.949	13.5	20.3

10645 Brač 1 24.3 62°.90 6°.2/21.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 56.10	+34 29.5	1.615	2.457	14.7	16.3
1 2	8 48.40	+35 5.7	1.570	2.476	11.1	16.1
1 12	8 37.85	+35 32.1	1.549	2.496	7.8	16.0
1 22	8 25.72	+35 41.2	1.554	2.515	6.2	15.9
2 1	8 13.63	+35 28.8	1.587	2.535	7.7	16.1
2 11	8 3.17	+34 55.2	1.647	2.554	10.9	16.3
2 21	7 55.46	+34 4.5	1.731	2.574	14.1	16.5
3 2	7 51.06	+33 2.1	1.835	2.593	16.8	16.8

165374 2000 WB_{114} 1 24.3 355°.30 1°.8/23.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.16	+21 48.9	1.236	2.100	16.8	19.4
1 2	8 43.38	+22 13.8	1.171	2.096	12.2	19.1
1 12	8 35.42	+22 44.9	1.127	2.093	7.0	18.8
1 22	8 25.34	+23 15.6	1.108	2.091	2.0	18.5
2 1	8 14.76	+23 39.2	1.114	2.089	5.3	18.7
2 11	8 5.50	+23 51.3	1.146	2.089	10.7	19.0
2 21	7 58.96	+23 50.5	1.199	2.090	15.6	19.2
3 2	7 55.97	+23 37.8	1.272	2.091	19.7	19.5

170215 2003 QV_{5} 1 24.3 219°.59 2°.9/22.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.59	+25 51.5	2.067	2.902	12.2	21.3
1 2	8 45.72	+26 37.3	1.982	2.892	8.9	21.1
1 12	8 36.44	+27 24.2	1.923	2.881	5.4	20.9
1 22	8 25.52	+28 6.3	1.892	2.869	3.0	20.7
2 1	8 14.09	+28 38.1	1.892	2.856	5.0	20.8
2 11	8 3.44	+28 56.3	1.922	2.843	8.7	21.0
2 21	7 54.65	+29 0.3	1.977	2.829	12.2	21.2
3 2	7 48.51	+28 51.7	2.055	2.814	15.2	21.4

395406 2011 SU_{133} 1 24.3 144°.58 1°.4/23.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.54	+21 29.1	2.016	2.847	12.6	22.2
1 2	8 45.41	+22 9.1	1.951	2.860	9.1	22.0
1 12	8 36.10	+22 52.7	1.912	2.873	5.1	21.8
1 22	8 25.43	+23 34.8	1.903	2.885	1.6	21.6
2 1	8 14.52	+24 10.6	1.924	2.895	3.9	21.8
2 11	8 4.56	+24 36.8	1.974	2.905	7.8	22.0
2 21	7 56.51	+24 52.2	2.052	2.914	11.4	22.3
3 2	7 50.99	+24 57.4	2.152	2.922	14.3	22.5

272849 2006 BW_{33} 1 24.3 274°.73 2°.5/23.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.64	+25 41.1	2.027	2.868	12.2	20.7
1 2	8 43.49	+26 1.1	1.947	2.860	8.9	20.4
1 12	8 35.10	+26 21.0	1.893	2.853	5.3	20.2
1 22	8 25.26	+26 36.1	1.867	2.846	2.5	20.0
2 1	8 15.06	+26 42.6	1.870	2.838	4.5	20.1
2 11	8 5.71	+26 38.2	1.902	2.831	8.2	20.3
2 21	7 58.21	+26 23.1	1.960	2.823	11.8	20.5
3 2	7 53.24	+25 58.6	2.040	2.816	14.8	20.7

321795 2010 PN_{51} 1 24.3 89°.97 2°.6/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.02	+10 10.8	1.934	2.745	13.9	20.6
1 2	8 43.40	+10 24.5	1.882	2.774	10.4	20.5
1 12	8 34.84	+10 51.0	1.855	2.803	6.5	20.3
1 22	8 25.18	+11 27.5	1.855	2.832	3.1	20.1
2 1	8 15.46	+12 10.1	1.886	2.859	3.7	20.2
2 11	8 6.72	+12 54.4	1.946	2.886	7.2	20.5
2 21	7 59.80	+13 36.7	2.033	2.913	10.6	20.7
3 2	7 55.21	+14 14.3	2.143	2.939	13.5	21.0

170268 2003 QY_{73} 1 24.3 195°.18 0°.8/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.84	+16 39.1	1.980	2.804	13.1	21.1
1 2	8 45.01	+16 40.6	1.898	2.802	9.6	20.9
1 12	8 35.95	+16 49.0	1.841	2.799	5.6	20.6
1 22	8 25.43	+17 1.3	1.813	2.795	1.4	20.3
2 1	8 14.54	+17 14.6	1.815	2.791	3.4	20.5
2 11	8 4.47	+17 26.0	1.847	2.786	7.6	20.7
2 21	7 56.22	+17 33.6	1.906	2.781	11.5	20.9
3 2	7 50.49	+17 36.7	1.988	2.775	14.7	21.1

100585 1997 LN_{9} 1 24.3 127°.07 4°.5/21.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.75	+29 6.3	1.973	2.813	12.5	20.2
1 2	8 45.06	+30 21.8	1.917	2.826	9.2	20.0
1 12	8 35.99	+31 35.3	1.886	2.839	6.0	19.8
1 22	8 25.43	+32 39.2	1.884	2.851	4.5	19.7
2 1	8 14.57	+33 27.3	1.912	2.863	6.3	19.9
2 11	8 4.72	+33 56.5	1.967	2.874	9.4	20.1
2 21	7 56.91	+34 7.2	2.048	2.885	12.4	20.3
3 2	7 51.83	+34 1.9	2.151	2.895	15.1	20.5

264700 2002 AB_{120} 1 24.3 263°.44 1°.3/23.6 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 49.91	+22 31.2	2.054	2.890	12.2	20.6
1 2	8 43.70	+22 42.9	1.964	2.876	8.9	20.4
1 12	8 35.25	+22 56.8	1.900	2.861	5.1	20.1
1 22	8 25.31	+23 9.1	1.864	2.847	1.5	19.8
2 1	8 14.91	+23 16.2	1.859	2.832	3.8	20.0
2 11	8 5.27	+23 15.7	1.882	2.817	7.9	20.2
2 21	7 57.37	+23 7.0	1.932	2.801	11.6	20.4
3 2	7 51.96	+22 50.6	2.005	2.786	14.8	20.6

199582 2006 FT_{8} 1 24.3 280°.48 1°.2/23.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.01	+21 18.2	2.062	2.901	12.0	20.5
1 2	8 41.53	+21 47.9	1.983	2.896	8.7	20.3
1 12	8 33.97	+22 21.9	1.930	2.892	4.9	20.1
1 22	8 25.06	+22 55.8	1.904	2.887	1.4	19.8
2 1	8 15.79	+23 25.5	1.909	2.882	3.7	20.0
2 11	8 7.27	+23 47.5	1.942	2.878	7.6	20.2
2 21	8 0.43	+24 0.3	2.002	2.873	11.2	20.4
3 2	7 55.92	+24 3.9	2.084	2.868	14.2	20.6

208536 2001 YF_{151} 1 24.3 265°.79 7°.0/27.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.05	− 2 15.2	2.605	3.349	12.5	19.8
1 2	8 41.18	− 3 21.2	2.508	3.335	10.5	19.7
1 12	8 33.65	− 4 13.2	2.435	3.321	8.6	19.5
1 22	8 25.01	− 4 48.9	2.389	3.307	7.2	19.4
2 1	8 15.98	− 5 7.1	2.371	3.293	7.1	19.4
2 11	8 7.39	− 5 8.6	2.382	3.279	8.5	19.4
2 21	7 59.99	− 4 56.0	2.420	3.265	10.5	19.6
3 2	7 54.37	− 4 33.1	2.481	3.250	12.6	19.7

493184 2014 UH_{15} 1 24.3 139°.63 0°.1/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.21	+17 58.3	1.987	2.818	12.8	21.8
1 2	8 43.04	+18 17.3	1.917	2.825	9.3	21.6
1 12	8 34.78	+18 42.7	1.871	2.832	5.3	21.4
1 22	8 25.21	+19 10.9	1.855	2.838	1.0	21.1
2 1	8 15.38	+19 37.9	1.868	2.844	3.3	21.3
2 11	8 6.41	+20 0.6	1.910	2.849	7.4	21.5
2 21	7 59.21	+20 16.9	1.979	2.854	11.1	21.8
3 2	7 54.42	+20 26.1	2.071	2.859	14.2	22.0

28044 1998 FD_{116} 1 24.3 184°.80 1°.6/23.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.18	+22 36.5	1.911	2.747	13.0	18.5
1 2	8 45.37	+22 58.9	1.836	2.747	9.4	18.2
1 12	8 36.18	+23 23.9	1.786	2.747	5.4	18.0
1 22	8 25.49	+23 46.8	1.764	2.746	1.7	17.7
2 1	8 14.44	+24 3.2	1.773	2.745	4.1	17.9
2 11	8 4.34	+24 10.5	1.810	2.743	8.3	18.2
2 21	7 56.21	+24 8.0	1.874	2.741	12.0	18.4
3 2	7 50.77	+23 56.6	1.960	2.738	15.2	18.6

258174 2001 SF_{145} 1 24.3 184°.38 0°.9/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.71	+15 11.0	2.405	3.221	11.3	22.0
1 2	8 42.43	+15 26.4	2.322	3.222	8.3	21.8
1 12	8 34.36	+15 49.2	2.265	3.221	4.9	21.6
1 22	8 25.14	+16 16.7	2.239	3.220	1.4	21.4
2 1	8 15.63	+16 45.9	2.243	3.219	2.9	21.5
2 11	8 6.76	+17 13.6	2.278	3.217	6.4	21.7
2 21	7 59.31	+17 37.8	2.341	3.213	9.7	21.9
3 2	7 53.88	+17 56.9	2.428	3.210	12.5	22.1

464813 2004 RD_{213} 1 24.3 157°.11 4°.0/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.93	+ 5 50.0	2.534	3.317	11.8	21.5
1 2	8 41.69	+ 5 27.5	2.455	3.325	9.2	21.4
1 12	8 33.86	+ 5 16.7	2.402	3.332	6.5	21.2
1 22	8 25.04	+ 5 17.5	2.378	3.338	4.3	21.1
2 1	8 16.01	+ 5 28.7	2.384	3.344	4.4	21.1
2 11	8 7.60	+ 5 48.0	2.420	3.349	6.7	21.2
2 21	8 0.50	+ 6 12.4	2.484	3.354	9.3	21.4
3 2	7 55.23	+ 6 39.1	2.573	3.358	11.8	21.6

429345 2010 FX_{28} 1 24.3 283°.99 3°.7/21.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.78	+28 49.7	2.283	3.122	11.0	21.2
1 2	8 42.17	+29 37.5	2.191	3.102	8.2	20.9
1 12	8 34.41	+30 24.6	2.126	3.081	5.3	20.7
1 22	8 25.18	+31 5.6	2.089	3.059	3.7	20.6
2 1	8 15.45	+31 35.4	2.082	3.038	5.4	20.6
2 11	8 6.33	+31 50.9	2.103	3.017	8.5	20.8
2 21	7 58.82	+31 51.7	2.150	2.995	11.6	21.0
3 2	7 53.65	+31 39.1	2.220	2.974	14.4	21.1

903 Nealley 1 24.3 85°.22 2°.9/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 43.27	+ 7 39.3	2.419	3.221	11.7	15.2
1 2	8 38.47	+ 7 59.8	2.341	3.226	9.0	15.0
1 12	8 32.09	+ 8 33.4	2.288	3.230	5.9	14.8
1 22	8 24.72	+ 9 18.2	2.263	3.234	3.3	14.6
2 1	8 17.10	+10 11.1	2.268	3.238	3.5	14.7
2 11	8 10.05	+11 8.0	2.302	3.243	6.3	14.8
2 21	8 4.27	+12 5.1	2.365	3.247	9.2	15.0
3 2	8 0.28	+12 58.9	2.452	3.251	11.9	15.2

166690 2002 TG_{143} 1 24.3 122°.83 1°.5/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 45.14	+12 17.0	2.453	3.267	11.2	20.4
1 2	8 39.77	+12 45.5	2.381	3.278	8.3	20.2
1 12	8 32.81	+13 23.8	2.335	3.288	5.0	20.0
1 22	8 24.86	+14 9.0	2.318	3.298	1.9	19.8
2 1	8 16.70	+14 57.7	2.332	3.308	2.8	19.9
2 11	8 9.16	+15 46.1	2.377	3.317	6.1	20.2
2 21	8 2.94	+16 31.2	2.449	3.327	9.1	20.4
3 2	7 58.56	+17 10.7	2.546	3.336	11.8	20.6

317560 2002 VN_{19} 1 24.3 75°.35 2°.6/25.3 17

12 23	8 52.22	+12 35.9	1.301	2.138	17.8	20.5
1 2	8 45.81	+12 34.6	1.248	2.156	13.2	20.3
1 12	8 36.55	+12 48.5	1.218	2.174	8.1	20.1
1 22	8 25.57	+13 14.2	1.213	2.193	3.3	19.8
2 1	8 14.41	+13 46.9	1.235	2.211	4.6	20.0
2 11	8 4.69	+14 21.1	1.283	2.229	9.5	20.3
2 21	7 57.59	+14 52.5	1.355	2.246	14.1	20.6
3 2	7 53.76	+15 18.2	1.447	2.264	17.8	20.9

224345 2005 UT_{90} 1 24.3 291°.60 8°.3/19.7 18

12 23	8 53.89	+39 49.1	1.819	2.652	13.7	20.2
1 2	8 47.25	+40 59.8	1.752	2.644	11.0	20.0
1 12	8 37.54	+41 59.5	1.709	2.636	8.9	19.9
1 22	8 25.80	+42 38.9	1.693	2.627	8.4	19.8
2 1	8 13.57	+42 51.1	1.702	2.619	9.8	19.9
2 11	8 2.57	+42 34.7	1.737	2.611	12.4	20.0
2 21	7 54.16	+41 53.2	1.795	2.603	15.2	20.2
3 2	7 49.16	+40 52.4	1.872	2.595	17.7	20.4

196974 2003 UC_{64} 1 24.3 136°.59 2°.8/26.4 18

12 23	8 44.94	+ 7 39.9	2.338	3.139	12.1	20.0
1 2	8 39.71	+ 8 7.2	2.261	3.146	9.2	19.8
1 12	8 32.82	+ 8 48.2	2.209	3.152	6.1	19.6
1 22	8 24.88	+ 9 40.8	2.186	3.159	3.3	19.4
2 1	8 16.68	+10 41.3	2.193	3.165	3.5	19.4
2 11	8 9.09	+11 45.3	2.230	3.170	6.4	19.6
2 21	8 2.84	+12 48.5	2.295	3.176	9.5	19.8
3 2	7 58.49	+13 47.2	2.385	3.181	12.3	20.0

323466 2004 KR_{13} 1 24.3 211°.03 4°.4/27.3 17

12 23	8 46.38	+ 3 17.4	2.476	3.252	12.2	22.0
1 2	8 40.76	+ 3 20.8	2.382	3.245	9.7	21.8
1 12	8 33.45	+ 3 39.4	2.312	3.237	7.0	21.6
1 22	8 25.02	+ 4 12.8	2.270	3.228	4.8	21.4
2 1	8 16.22	+ 4 58.8	2.259	3.218	4.7	21.4
2 11	8 7.92	+ 5 53.8	2.277	3.208	6.9	21.5
2 21	8 0.86	+ 6 53.7	2.324	3.197	9.7	21.7
3 2	7 55.66	+ 7 54.1	2.395	3.186	12.4	21.9

229069 2004 GK_{79} 1 24.3 181°.04 1°.6/23.6 18

12 23	8 52.25	+20 50.4	1.531	2.375	15.2	20.9
1 2	8 45.92	+21 30.8	1.460	2.376	11.0	20.7
1 12	8 36.73	+22 17.9	1.414	2.376	6.3	20.4
1 22	8 25.66	+23 5.3	1.394	2.376	1.8	20.1
2 1	8 14.11	+23 46.2	1.403	2.376	4.7	20.3
2 11	8 3.67	+24 15.9	1.439	2.375	9.6	20.6
2 21	7 55.61	+24 32.5	1.499	2.374	14.0	20.9
3 2	7 50.75	+24 36.7	1.581	2.373	17.7	21.1

143002 2002 VQ_{101} 1 24.3 26°.48 2°.9/25.6 18

12 23	8 46.93	+11 42.2	1.462	2.299	16.2	19.4
1 2	8 41.91	+11 40.4	1.398	2.304	12.2	19.2
1 12	8 34.36	+11 53.5	1.356	2.311	7.6	18.9
1 22	8 25.20	+12 19.2	1.340	2.318	3.4	18.7
2 1	8 15.71	+12 53.4	1.350	2.326	4.4	18.8
2 11	8 7.30	+13 30.9	1.387	2.334	8.9	19.1
2 21	8 1.06	+14 7.2	1.448	2.343	13.2	19.3
3 2	7 57.71	+14 38.7	1.531	2.352	16.8	19.6

318872 2005 TZ_{88} 1 24.3 219°.29 3°.1/22.3 16

12 23	8 50.92	+27 21.2	2.373	3.205	10.9	22.1
1 2	8 44.28	+28 6.9	2.287	3.195	8.0	21.9
1 12	8 35.55	+28 52.3	2.228	3.184	5.0	21.7
1 22	8 25.43	+29 32.2	2.199	3.172	3.1	21.5
2 1	8 14.87	+30 1.9	2.200	3.160	4.8	21.6
2 11	8 4.98	+30 18.5	2.231	3.147	8.0	21.8
2 21	7 56.70	+30 21.8	2.289	3.133	11.0	22.0
3 2	7 50.73	+30 13.0	2.370	3.119	13.7	22.1

284777 2008 XT_{3} 1 24.3 56°.19 1°.3/23.8 18

12 23	8 52.81	+20 31.9	1.231	2.086	17.4	20.5
1 2	8 46.35	+20 59.0	1.189	2.109	12.5	20.2
1 12	8 36.87	+21 32.5	1.168	2.133	7.0	20.0
1 22	8 25.65	+22 5.5	1.173	2.156	1.6	19.7
2 1	8 14.39	+22 31.8	1.205	2.180	4.9	20.0
2 11	8 4.80	+22 47.4	1.262	2.204	10.1	20.4
2 21	7 58.07	+22 51.6	1.343	2.229	14.6	20.7
3 2	7 54.80	+22 45.4	1.443	2.253	18.2	21.0

12923 Zephyr 1 24.3 151°.28 1°.9/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 56.42	+11 30.0	2.023	2.824	13.7	20.3
1 2	8 48.14	+11 58.0	1.953	2.842	10.2	20.1
1 12	8 37.66	+12 38.0	1.908	2.858	6.2	19.9
1 22	8 25.81	+13 26.4	1.893	2.873	2.4	19.6
2 1	8 13.70	+14 18.5	1.911	2.885	3.5	19.7
2 11	8 2.53	+15 9.7	1.960	2.896	7.5	20.0
2 21	7 53.26	+15 56.4	2.037	2.906	11.1	20.3
3 2	7 46.55	+16 36.4	2.139	2.914	14.2	20.5

411366 2010 UF_{102} 1 24.3 82°.56 6°.2/27.8 18

12 23	8 48.55	+ 1 48.2	1.812	2.597	15.7	20.9
1 2	8 42.52	+ 1 24.5	1.755	2.619	12.6	20.8
1 12	8 34.46	+ 1 20.9	1.720	2.641	9.3	20.6
1 22	8 25.20	+ 1 37.3	1.711	2.662	6.7	20.5
2 1	8 15.79	+ 2 11.7	1.729	2.684	6.5	20.5
2 11	8 7.34	+ 2 59.3	1.776	2.705	8.7	20.7
2 21	8 0.71	+ 3 54.3	1.848	2.725	11.6	20.9
3 2	7 56.47	+ 4 51.4	1.943	2.746	14.4	21.1

293725 2007 RS_{16} 1 24.3 131°.29 3°.8/26.2 18

12 23	8 49.90	+ 8 23.9	1.771	2.581	15.0	21.0
1 2	8 43.68	+ 8 18.9	1.702	2.591	11.5	20.8
1 12	8 35.23	+ 8 29.1	1.657	2.601	7.6	20.6
1 22	8 25.37	+ 8 53.1	1.638	2.610	4.3	20.4
2 1	8 15.23	+ 9 27.9	1.649	2.619	4.7	20.5
2 11	8 6.02	+10 8.8	1.687	2.628	8.2	20.7
2 21	7 58.70	+10 51.4	1.752	2.636	11.9	20.9
3 2	7 53.96	+11 31.9	1.840	2.643	15.1	21.2

444261 2005 UX_{240} 1 24.3 123°.36 3°.6/26.1 18

12 23	8 50.48	+ 8 43.7	1.577	2.395	16.2	21.8
1 2	8 44.32	+ 8 54.0	1.512	2.406	12.3	21.5
1 12	8 35.68	+ 9 22.0	1.469	2.417	8.0	21.3
1 22	8 25.47	+10 4.9	1.453	2.428	4.1	21.1
2 1	8 14.94	+10 58.3	1.465	2.438	4.7	21.2
2 11	8 5.45	+11 56.0	1.505	2.448	8.7	21.4
2 21	7 58.10	+12 52.5	1.570	2.457	12.8	21.7
3 2	7 53.58	+13 43.5	1.657	2.466	16.3	21.9

159302 2006 BF_{65} 1 24.3 89°.30 0°.8/24.7 18

12 23	8 46.89	+15 31.2	2.014	2.843	12.7	20.5
1 2	8 41.35	+15 52.5	1.945	2.852	9.3	20.3
1 12	8 33.84	+16 22.5	1.902	2.860	5.4	20.1
1 22	8 25.11	+16 57.8	1.886	2.869	1.4	19.9
2 1	8 16.13	+17 34.5	1.901	2.878	3.2	20.0
2 11	8 7.96	+18 8.7	1.944	2.886	7.1	20.3
2 21	8 1.45	+18 37.8	2.014	2.894	10.7	20.5
3 2	7 57.21	+19 0.2	2.108	2.903	13.7	20.7

238828 2005 SU_{100} 1 24.3 320°.45 2°.2/25.1 18

12 23	8 49.54	+14 16.3	1.275	2.122	17.5	20.5
1 2	8 44.34	+14 8.2	1.200	2.114	13.1	20.2
1 12	8 36.03	+14 13.5	1.148	2.107	8.0	19.9
1 22	8 25.58	+14 29.5	1.119	2.100	2.9	19.6
2 1	8 14.50	+14 52.2	1.117	2.094	4.7	19.6
2 11	8 4.56	+15 16.6	1.140	2.088	10.2	19.9
2 21	7 57.18	+15 38.6	1.186	2.082	15.2	20.2
3 2	7 53.28	+15 55.5	1.251	2.077	19.6	20.5

182959 2002 JK_{68} 1 24.3 167°.94 1°.8/25.2 18

12 23	8 52.91	+13 8.9	1.698	2.520	15.0	21.3
1 2	8 46.05	+13 21.8	1.624	2.525	11.2	21.1
1 12	8 36.68	+13 47.0	1.575	2.530	6.8	20.8
1 22	8 25.67	+14 21.1	1.553	2.533	2.4	20.5
2 1	8 14.28	+14 59.8	1.560	2.536	3.9	20.6
2 11	8 3.86	+15 38.2	1.597	2.538	8.4	20.9
2 21	7 55.54	+16 12.9	1.659	2.539	12.6	21.2
3 2	7 50.06	+16 41.3	1.744	2.540	16.1	21.4

281756 2009 BP_{68} 1 24.3 73°.36 0°.3/24.5 18

12 23	8 46.41	+13 15.4	2.189	3.009	12.1	20.0
1 2	8 40.87	+14 41.7	2.127	3.030	8.8	19.8
1 12	8 33.53	+16 19.6	2.093	3.051	5.0	19.6
1 22	8 25.06	+18 3.3	2.088	3.071	1.1	19.4
2 1	8 16.35	+19 46.0	2.116	3.092	3.0	19.6
2 11	8 8.35	+21 21.5	2.175	3.113	6.8	19.9
2 21	8 1.87	+22 45.4	2.262	3.133	10.1	20.1
3 2	7 57.47	+23 55.5	2.374	3.153	12.8	20.3

100296 1995 FB 1 24.3 162°.01 5°.4/21.6 18

12 23	8 54.94	+34 30.5	2.080	2.911	12.3	19.8
1 2	8 47.34	+35 8.7	2.015	2.915	9.4	19.7
1 12	8 37.30	+35 39.4	1.976	2.919	6.6	19.5
1 22	8 25.77	+35 56.1	1.964	2.922	5.4	19.4
2 1	8 14.02	+35 54.5	1.982	2.925	6.8	19.5
2 11	8 3.40	+35 33.8	2.028	2.927	9.6	19.7
2 21	7 54.95	+34 56.4	2.100	2.929	12.5	19.9
3 2	7 49.32	+34 6.3	2.193	2.931	15.0	20.1

414473 2009 OQ_4 1 24.3 182°.73 0°.8/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 47.86	+14 33.4	2.371	3.189	11.4	22.3
1 2	8 41.89	+15 7.6	2.289	3.190	8.4	22.1
1 12	8 34.12	+15 50.7	2.234	3.190	4.9	21.9
1 22	8 25.18	+16 39.4	2.207	3.189	1.3	21.6
2 1	8 15.92	+17 29.7	2.212	3.188	2.9	21.7
2 11	8 7.26	+18 17.7	2.248	3.187	6.5	22.0
2 21	8 0.02	+19 0.5	2.311	3.184	9.8	22.2
3 2	7 54.79	+19 36.0	2.399	3.181	12.7	22.4

144216 2004 CW_{16} 1 24.3 166°.42 0°.9/23.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.18	+20 32.8	2.153	2.984	11.9	20.8
1 2	8 43.70	+21 1.0	2.079	2.988	8.6	20.6
1 12	8 35.19	+21 33.4	2.032	2.992	4.9	20.3
1 22	8 25.39	+22 5.9	2.013	2.996	1.2	20.1
2 1	8 15.31	+22 34.3	2.025	2.999	3.5	20.3
2 11	8 6.02	+22 55.7	2.067	3.001	7.3	20.5
2 21	7 58.43	+23 8.7	2.136	3.003	10.8	20.7
3 2	7 53.15	+23 13.3	2.228	3.004	13.7	20.9

439833 1995 SS_{73} 1 24.3 121°.08 2°.2/25.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.25	+12 0.9	1.623	2.445	15.6	21.9
1 2	8 45.52	+12 17.7	1.561	2.462	11.6	21.7
1 12	8 36.32	+12 48.4	1.524	2.478	7.1	21.5
1 22	8 25.61	+13 29.2	1.513	2.493	2.8	21.3
2 1	8 14.67	+14 15.4	1.532	2.507	4.0	21.4
2 11	8 4.83	+15 1.6	1.579	2.521	8.4	21.7
2 21	7 57.17	+15 43.7	1.651	2.535	12.5	22.0
3 2	7 52.35	+16 19.0	1.746	2.547	15.9	22.2

419899 2011 AG_{66} 1 24.3 50°.47 0°.2/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.59	+17 32.7	1.612	2.456	14.6	21.0
1 2	8 42.21	+18 10.7	1.556	2.471	10.5	20.8
1 12	8 34.46	+18 57.6	1.524	2.486	6.0	20.6
1 22	8 25.27	+19 48.2	1.519	2.502	1.1	20.3
2 1	8 15.85	+20 36.7	1.542	2.518	3.8	20.5
2 11	8 7.52	+21 18.0	1.592	2.535	8.4	20.8
2 21	8 1.27	+21 49.4	1.668	2.551	12.4	21.1
3 2	7 57.75	+22 10.1	1.766	2.568	15.7	21.3

269610 2010 CQ_{143} 1 24.3 301°.75 0°.2/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.49	+17 58.7	2.112	2.947	12.0	20.5
1 2	8 40.42	+18 30.8	2.031	2.942	8.7	20.3
1 12	8 33.39	+19 10.2	1.976	2.937	5.0	20.0
1 22	8 25.08	+19 53.0	1.948	2.932	0.9	19.7
2 1	8 16.40	+20 34.9	1.951	2.927	3.2	19.9
2 11	8 8.39	+21 11.9	1.982	2.922	7.2	20.1
2 21	8 1.92	+21 41.6	2.040	2.917	10.8	20.4
3 2	7 57.66	+22 2.7	2.122	2.912	13.8	20.5

34896 2117 P–L 1 24.3 105°.71 0°.4/24.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.44	+17 1.2	1.929	2.762	13.0	19.7
1 2	8 42.56	+17 18.6	1.861	2.769	9.5	19.5
1 12	8 34.58	+17 43.4	1.817	2.777	5.5	19.3
1 22	8 25.30	+18 12.2	1.802	2.785	1.2	19.0
2 1	8 15.76	+18 41.0	1.816	2.793	3.3	19.2
2 11	8 7.09	+19 6.2	1.859	2.800	7.5	19.4
2 21	8 0.21	+19 25.8	1.928	2.807	11.2	19.7
3 2	7 55.75	+19 38.5	2.021	2.815	14.3	19.9

444413 2006 AH_{55} 1 24.3 77°.56 2°.9/25.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.10	+12 36.4	1.397	2.230	17.0	21.4
1 2	8 45.65	+12 22.2	1.340	2.245	12.7	21.1
1 12	8 36.48	+12 21.6	1.305	2.260	7.9	20.9
1 22	8 25.66	+12 32.3	1.296	2.275	3.4	20.7
2 1	8 14.63	+12 50.8	1.315	2.290	4.6	20.8
2 11	8 4.92	+13 12.7	1.360	2.305	9.2	21.1
2 21	7 57.66	+13 34.4	1.430	2.320	13.6	21.4
3 2	7 53.54	+13 52.8	1.520	2.334	17.3	21.7

47101 1999 BP_{12} 1 24.3 322°.54 4°.1/22.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.01	+27 10.9	1.427	2.280	15.6	17.8
1 2	8 46.75	+27 52.7	1.361	2.279	11.5	17.6
1 12	8 37.34	+28 34.1	1.318	2.278	7.1	17.3
1 22	8 25.86	+29 7.0	1.300	2.277	4.1	17.1
2 1	8 13.91	+29 24.6	1.310	2.276	6.5	17.3
2 11	8 3.29	+29 23.7	1.346	2.275	11.0	17.5
2 21	7 55.38	+29 5.5	1.405	2.274	15.2	17.8
3 2	7 50.98	+28 33.3	1.484	2.273	18.8	18.0

93487 2000 TD_{26} 1 24.3 252°.09 0°.1/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.52	+17 45.0	1.941	2.776	12.9	20.2
1 2	8 42.03	+18 11.3	1.860	2.771	9.4	20.0
1 12	8 34.37	+18 45.2	1.805	2.766	5.4	19.7
1 22	8 25.28	+19 23.0	1.778	2.761	1.0	19.4
2 1	8 15.79	+20 0.0	1.780	2.756	3.4	19.6
2 11	8 7.04	+20 32.4	1.811	2.751	7.7	19.8
2 21	8 0.04	+20 57.6	1.868	2.746	11.5	20.1
3 2	7 55.46	+21 14.4	1.947	2.740	14.8	20.3

391080 2005 UQ_{191} 1 24.3 114°.58 1°.9/23.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 54.11	+21 59.4	1.567	2.409	15.0	21.3
1 2	8 47.03	+22 39.8	1.511	2.425	10.8	21.1
1 12	8 37.25	+23 24.3	1.479	2.441	6.2	20.9
1 22	8 25.82	+24 6.4	1.474	2.456	2.0	20.6
2 1	8 14.17	+24 40.0	1.498	2.470	4.8	20.8
2 11	8 3.81	+25 1.3	1.550	2.484	9.3	21.1
2 21	7 55.89	+25 9.8	1.627	2.498	13.3	21.4
3 2	7 51.08	+25 6.8	1.725	2.511	16.7	21.7

170267 2003 QM_{73} 1 24.3 164°.16 1°.9/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.83	+11 39.7	2.150	2.960	12.7	21.5
1 2	8 43.40	+11 59.2	2.073	2.967	9.5	21.3
1 12	8 35.02	+12 29.8	2.022	2.973	5.9	21.1
1 22	8 25.40	+13 9.0	2.000	2.978	2.4	20.8
2 1	8 15.48	+13 53.1	2.008	2.983	3.3	20.9
2 11	8 6.29	+14 37.9	2.047	2.987	7.0	21.1
2 21	7 58.70	+15 20.0	2.113	2.989	10.4	21.4
3 2	7 53.32	+15 57.0	2.203	2.991	13.4	21.6

306516 1999 VZ_{209} 1 24.3 78°.72 1°.7/23.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.67	+21 20.1	1.566	2.411	14.9	21.2
1 2	8 45.20	+22 0.8	1.515	2.431	10.7	21.0
1 12	8 36.16	+22 46.3	1.488	2.451	6.0	20.8
1 22	8 25.61	+23 30.2	1.488	2.470	1.8	20.6
2 1	8 14.90	+24 6.5	1.517	2.490	4.5	20.8
2 11	8 5.46	+24 31.5	1.573	2.509	9.0	21.1
2 21	7 58.36	+24 44.2	1.654	2.528	13.0	21.4
3 2	7 54.23	+24 45.5	1.757	2.547	16.2	21.6

155356 2707 P–L 1 24.3 107°.96 2°.7/22.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.90	+25 32.1	2.037	2.875	12.2	20.8
1 2	8 44.27	+26 10.8	1.979	2.890	8.8	20.6
1 12	8 35.51	+26 49.5	1.947	2.906	5.2	20.4
1 22	8 25.48	+27 22.9	1.943	2.921	2.7	20.3
2 1	8 15.28	+27 46.5	1.969	2.935	4.6	20.4
2 11	8 6.07	+27 58.1	2.024	2.950	8.1	20.6
2 21	7 58.76	+27 57.6	2.106	2.963	11.3	20.9
3 2	7 53.94	+27 46.4	2.210	2.977	14.1	21.1

463814 2014 TZ_4 1 24.3 14°.41 2°.8/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.70	+10 52.8	1.650	2.477	15.1	21.3
1 2	8 41.62	+10 58.2	1.577	2.478	11.4	21.1
1 12	8 34.20	+11 18.3	1.527	2.480	7.2	20.8
1 22	8 25.26	+11 50.9	1.504	2.481	3.4	20.6
2 1	8 15.94	+12 31.9	1.508	2.483	4.2	20.6
2 11	8 7.51	+13 16.5	1.540	2.485	8.3	20.9
2 21	8 1.01	+13 59.9	1.597	2.487	12.4	21.1
3 2	7 57.16	+14 38.6	1.676	2.490	15.9	21.4

503619 2016 GP_{128} 1 24.3 177°.23 5°.1/20.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.14	+37 9.0	2.834	3.655	9.7	21.9
1 2	8 44.20	+37 54.0	2.767	3.657	7.5	21.8
1 12	8 35.40	+38 31.7	2.727	3.658	5.7	21.7
1 22	8 25.47	+38 57.4	2.716	3.659	5.1	21.6
2 1	8 15.32	+39 7.5	2.735	3.660	6.1	21.7
2 11	8 5.92	+39 1.0	2.782	3.660	8.1	21.8
2 21	7 58.11	+38 39.2	2.856	3.659	10.2	22.0
3 2	7 52.44	+38 4.8	2.952	3.658	12.1	22.1

462853 2010 UV_{76} 1 24.3 16°.18 8°.6/19.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.95	+36 46.9	1.459	2.312	15.3	20.7
1 2	8 45.45	+38 17.2	1.408	2.315	12.1	20.5
1 12	8 36.67	+39 37.4	1.381	2.319	9.4	20.4
1 22	8 25.75	+40 36.6	1.378	2.324	8.7	20.3
2 1	8 14.42	+41 6.5	1.401	2.330	10.4	20.4
2 11	8 4.57	+41 5.2	1.447	2.336	13.4	20.6
2 21	7 57.60	+40 36.3	1.515	2.343	16.5	20.8
3 2	7 54.28	+39 46.2	1.600	2.350	19.2	21.1

15097 1999 XP_{38} 1 24.3 273°.26 2°.1/22.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.25	+22 35.2	2.135	2.976	11.6	17.4
1 2	8 41.08	+23 36.3	2.054	2.968	8.4	17.2
1 12	8 33.84	+24 42.3	1.999	2.960	4.9	17.0
1 22	8 25.21	+25 47.6	1.972	2.952	2.2	16.8
2 1	8 16.13	+26 46.4	1.976	2.944	4.3	16.9
2 11	8 7.70	+27 34.3	2.009	2.936	7.9	17.1
2 21	8 0.85	+28 9.0	2.068	2.929	11.3	17.3
3 2	7 56.29	+28 30.3	2.149	2.921	14.3	17.5

415953 2001 XM_{31} 1 24.3 69°.34 4°.6/21.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.85	+14 31.0	0.878	1.739	22.1	19.6
1 2	8 49.89	+18 42.4	0.839	1.764	15.7	19.3
1 12	8 39.61	+23 21.3	0.823	1.789	8.7	19.0
1 22	8 26.36	+27 57.0	0.835	1.814	4.6	18.9
2 1	8 12.44	+31 57.3	0.875	1.839	9.3	19.3
2 11	8 0.50	+35 2.8	0.942	1.864	15.2	19.7
2 21	7 52.47	+37 11.3	1.029	1.889	20.2	20.0
3 2	7 49.29	+38 31.0	1.133	1.913	24.0	20.4

17487 1991 *SY* 1 24.3 257°.05 7°.2/19.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 53.23	+37 45.1	2.000	2.833	12.6	17.8
1 2	8 46.58	+38 54.8	1.927	2.821	10.0	17.6
1 12	8 37.16	+39 56.4	1.878	2.810	7.9	17.5
1 22	8 25.85	+40 41.2	1.857	2.798	7.2	17.4
2 1	8 14.02	+41 3.1	1.863	2.786	8.7	17.5
2 11	8 3.17	+40 59.6	1.896	2.774	11.3	17.6
2 21	7 54.59	+40 33.1	1.952	2.762	14.0	17.8
3 2	7 49.08	+39 48.2	2.028	2.749	16.6	17.9

467993 2012 TD_{163} 1 24.3 146°.74 3°.0/22.1 18

12 23	8 47.07	+28 14.0	2.723	3.557	9.6	22.1
1 2	8 41.21	+29 0.7	2.655	3.564	7.0	21.9
1 12	8 33.70	+29 46.0	2.615	3.570	4.4	21.7
1 22	8 25.17	+30 25.6	2.605	3.576	3.0	21.6
2 1	8 16.41	+30 55.8	2.625	3.582	4.4	21.8
2 11	8 8.30	+31 14.4	2.675	3.587	7.0	21.9
2 21	8 1.55	+31 21.2	2.752	3.593	9.5	22.1
3 2	7 56.72	+31 17.2	2.852	3.598	11.7	22.3

188457 2004 JR_{15} 1 24.3 176°.57 5°.3/27.5 18

12 23	8 47.58	+ 1 57.3	2.403	3.172	12.7	20.7
1 2	8 41.62	+ 1 32.5	2.319	3.174	10.3	20.5
1 12	8 33.96	+ 1 22.8	2.260	3.176	7.7	20.3
1 22	8 25.23	+ 1 28.4	2.229	3.177	5.7	20.2
2 1	8 16.20	+ 1 48.5	2.227	3.178	5.6	20.2
2 11	8 7.77	+ 2 20.3	2.254	3.178	7.5	20.3
2 21	8 0.68	+ 3 0.1	2.309	3.177	10.0	20.5
3 2	7 55.49	+ 3 43.7	2.388	3.176	12.5	20.6

356301 2010 GH_{27} 1 24.3 173°.32 0°.7/23.9 18

12 23	8 50.62	+18 30.5	1.919	2.750	13.1	21.3
1 2	8 44.29	+19 16.4	1.844	2.754	9.5	21.1
1 12	8 35.68	+20 10.2	1.795	2.756	5.4	20.8
1 22	8 25.57	+21 6.4	1.775	2.758	1.1	20.5
2 1	8 15.07	+21 59.5	1.785	2.759	3.7	20.7
2 11	8 5.40	+22 44.8	1.824	2.760	8.0	21.0
2 21	7 57.58	+23 19.7	1.890	2.760	11.8	21.2
3 2	7 52.33	+23 43.5	1.978	2.759	15.0	21.4

407468 2010 UK_{76} 1 24.3 109°.21 0°.6/24.0 18

12 23	8 51.42	+19 51.6	2.041	2.871	12.5	21.7
1 2	8 44.52	+20 12.5	1.983	2.891	9.0	21.5
1 12	8 35.61	+20 37.5	1.951	2.911	5.1	21.3
1 22	8 25.53	+21 2.8	1.948	2.931	1.0	21.0
2 1	8 15.32	+21 24.6	1.975	2.950	3.4	21.3
2 11	8 6.10	+21 40.2	2.032	2.968	7.3	21.5
2 21	7 58.70	+21 48.4	2.116	2.986	10.7	21.8
3 2	7 53.71	+21 49.4	2.223	3.003	13.6	22.0

275552 1999 FH_{65} 1 24.3 162°.98 4°.9/28.6 17

12 23	8 43.60	− 1 19.8	3.000	3.748	10.9	21.7
1 2	8 38.48	− 1 21.0	2.917	3.753	9.0	21.6
1 12	8 32.07	− 1 7.4	2.858	3.758	6.9	21.5
1 22	8 24.86	− 0 39.2	2.826	3.762	5.3	21.4
2 1	8 17.45	+ 0 2.3	2.824	3.767	5.0	21.4
2 11	8 10.49	+ 0 54.1	2.852	3.770	6.3	21.4
2 21	8 4.54	+ 1 52.5	2.908	3.773	8.3	21.6
3 2	8 0.05	+ 2 53.8	2.991	3.776	10.3	21.7

26643 2000 JT_{59} 1 24.3 152°.17 4°.6/26.6 18

12 23	8 49.53	+ 6 6.3	2.134	2.925	13.4	18.2
1 2	8 43.15	+ 5 35.6	2.058	2.932	10.5	18.0
1 12	8 34.87	+ 5 18.3	2.006	2.938	7.4	17.8
1 22	8 25.41	+ 5 14.5	1.982	2.944	4.9	17.6
2 1	8 15.68	+ 5 22.9	1.988	2.950	5.1	17.7
2 11	8 6.69	+ 5 41.1	2.023	2.955	7.6	17.8
2 21	7 59.28	+ 6 5.6	2.085	2.959	10.7	18.0
3 2	7 54.05	+ 6 32.8	2.171	2.963	13.5	18.2

142109 2002 QD_{92} 1 24.3 225°.80 0°.3/24.1 18

12 23	8 49.67	+18 5.0	1.976	2.807	12.8	21.3
1 2	8 43.65	+18 37.8	1.889	2.798	9.4	21.0
1 12	8 35.36	+19 18.4	1.828	2.788	5.4	20.8
1 22	8 25.54	+20 2.5	1.795	2.778	1.0	20.4
2 1	8 15.21	+20 45.2	1.792	2.767	3.5	20.6
2 11	8 5.59	+21 22.3	1.818	2.756	7.9	20.9
2 21	7 57.70	+21 51.1	1.871	2.744	11.8	21.1
3 2	7 52.31	+22 10.5	1.946	2.732	15.1	21.3

412342 2013 LB_{5} 1 24.3 140°.16 0°.2/24.4 18

12 23	8 48.75	+16 34.1	1.949	2.779	13.0	21.3
1 2	8 42.83	+17 7.6	1.878	2.786	9.5	21.1
1 12	8 34.79	+17 49.8	1.833	2.793	5.4	20.9
1 22	8 25.41	+18 36.4	1.816	2.799	1.1	20.6
2 1	8 15.72	+19 22.6	1.829	2.805	3.3	20.8
2 11	8 6.86	+20 4.0	1.871	2.811	7.5	21.0
2 21	7 59.77	+20 38.0	1.940	2.817	11.2	21.3
3 2	7 55.09	+21 3.1	2.032	2.822	14.4	21.5

199858 2007 EW_{97} 1 24.3 346°.56 15°.0/ 3.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 47.05	−15 23.2	1.131	1.869	25.8	19.8
1 2	8 42.84	−15 34.1	1.061	1.868	23.0	19.6
1 12	8 35.37	−14 52.7	1.004	1.867	19.8	19.4
1 22	8 25.59	−13 11.5	0.964	1.867	16.8	19.2
2 1	8 15.04	−10 30.7	0.945	1.866	15.1	19.1
2 11	8 5.60	− 7 2.4	0.949	1.866	15.7	19.1
2 21	7 58.82	− 3 7.8	0.976	1.866	18.4	19.2
3 2	7 55.73	+ 0 50.0	1.024	1.866	21.8	19.5

206813 2004 DP_{72} 1 24.3 68°.97 0°.1/24.3 18

12 23	8 46.42	+17 48.7	2.138	2.971	11.9	20.2
1 2	8 40.93	+18 12.5	2.076	2.985	8.6	20.1
1 12	8 33.60	+18 42.5	2.038	2.999	4.9	19.8
1 22	8 25.17	+19 15.2	2.030	3.013	0.9	19.6
2 1	8 16.56	+19 46.8	2.051	3.027	3.1	19.8
2 11	8 8.75	+20 14.1	2.101	3.041	6.8	20.0
2 21	8 2.53	+20 35.2	2.178	3.055	10.2	20.3
3 2	7 58.44	+20 49.1	2.279	3.069	13.0	20.5

500436 2012 TK_{155} 1 24.3 175°.88 1°.7/25.5 17

12 23	8 44.69	+11 59.9	2.532	3.345	10.9	21.9
1 2	8 39.51	+12 14.7	2.451	3.346	8.2	21.7
1 12	8 32.77	+12 38.9	2.395	3.347	5.0	21.5
1 22	8 25.02	+13 10.3	2.369	3.347	2.1	21.3
2 1	8 17.02	+13 46.1	2.372	3.347	2.9	21.4
2 11	8 9.57	+14 23.3	2.406	3.348	6.0	21.6
2 21	8 3.37	+14 59.0	2.468	3.348	9.0	21.8
3 2	7 58.95	+15 31.0	2.555	3.347	11.7	22.0

111843 2002 EH_{30} 1 24.3 231°.96 1°.4/23.6 18

12 23	8 50.79	+20 52.6	1.906	2.742	13.0	20.4
1 2	8 44.60	+21 33.1	1.819	2.730	9.5	20.1
1 12	8 35.98	+22 19.8	1.757	2.719	5.4	19.8
1 22	8 25.68	+23 7.1	1.724	2.706	1.6	19.5
2 1	8 14.81	+23 49.6	1.720	2.693	4.1	19.7
2 11	8 4.69	+24 22.9	1.746	2.679	8.5	19.9
2 21	7 56.43	+24 44.8	1.797	2.665	12.4	20.1
3 2	7 50.83	+24 55.3	1.871	2.651	15.8	20.3

450726 2007 EK_{108} 1 24.3 204°.54 4°.3/22.2 18

12 23	8 54.19	+28 0.0	1.679	2.522	14.1	21.8
1 2	8 47.38	+28 56.2	1.606	2.519	10.4	21.6
1 12	8 37.66	+29 51.9	1.558	2.515	6.6	21.4
1 22	8 26.00	+30 39.1	1.538	2.511	4.3	21.2
2 1	8 13.81	+31 10.8	1.546	2.506	6.5	21.3
2 11	8 2.72	+31 23.4	1.581	2.500	10.4	21.5
2 21	7 54.01	+31 17.5	1.641	2.494	14.2	21.8
3 2	7 48.54	+30 56.1	1.722	2.488	17.5	22.0

417002 2005 TY_{186} 1 24.3 203°.67 5°.4/21.4 18

12 23	8 52.85	+33 16.9	2.026	2.862	12.3	21.3
1 2	8 46.03	+34 7.3	1.956	2.860	9.4	21.1
1 12	8 36.71	+34 52.0	1.912	2.858	6.6	20.9
1 22	8 25.80	+35 24.2	1.895	2.855	5.4	20.8
2 1	8 14.52	+35 38.7	1.907	2.851	6.9	20.9
2 11	8 4.24	+35 33.4	1.947	2.848	9.8	21.1
2 21	7 56.07	+35 10.1	2.012	2.844	12.8	21.2
3 2	7 50.71	+34 32.4	2.098	2.840	15.5	21.4

433805 2015 BY_{104} 1 24.3 129°.69 0°.3/24.1 18

12 23	8 46.13	+17 27.7	2.226	3.056	11.6	20.7
1 2	8 40.76	+18 11.8	2.153	3.061	8.4	20.5
1 12	8 33.56	+19 3.3	2.106	3.066	4.8	20.3
1 22	8 25.19	+19 58.0	2.088	3.071	0.9	20.0
2 1	8 16.52	+20 51.4	2.101	3.076	3.1	20.2
2 11	8 8.53	+21 39.2	2.143	3.081	6.8	20.4
2 21	8 2.04	+22 18.8	2.212	3.085	10.2	20.6
3 2	7 57.63	+22 49.0	2.305	3.089	13.0	20.8

116158 2003 WU_{171} 1 24.3 310°.30 0°.9/23.9 18

12 23	8 48.94	+21 50.8	2.019	2.857	12.3	19.3
1 2	8 43.00	+21 52.2	1.938	2.850	9.0	19.1
1 12	8 34.91	+21 55.8	1.882	2.843	5.1	18.9
1 22	8 25.45	+21 58.4	1.854	2.836	1.2	18.6
2 1	8 15.65	+21 57.0	1.855	2.830	3.6	18.7
2 11	8 6.66	+21 49.7	1.886	2.824	7.6	19.0
2 21	7 59.44	+21 35.9	1.943	2.818	11.3	19.2
3 2	7 54.64	+21 16.2	2.023	2.812	14.4	19.4

366915 2005 UZ_{184} 1 24.3 164°.13 0°.7/24.8 18

12 23	8 48.18	+15 27.9	2.361	3.180	11.4	22.4
1 2	8 42.11	+15 48.9	2.284	3.186	8.4	22.2
1 12	8 34.27	+16 17.3	2.234	3.191	4.9	22.0
1 22	8 25.32	+16 50.3	2.213	3.195	1.3	21.7
2 1	8 16.11	+17 24.4	2.222	3.199	2.8	21.9
2 11	8 7.56	+17 56.5	2.262	3.202	6.4	22.1
2 21	8 0.45	+18 24.2	2.330	3.204	9.7	22.3
3 2	7 55.37	+18 46.0	2.423	3.206	12.5	22.5

522288 2016 BG_{97} 1 24.3 116°.94 0°.7/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 49.11	+16 21.6	1.841	2.673	13.6	21.5
1 2	8 43.17	+16 34.1	1.770	2.678	9.9	21.3
1 12	8 35.02	+16 54.9	1.725	2.684	5.8	21.1
1 22	8 25.47	+17 20.6	1.707	2.689	1.4	20.8
2 1	8 15.63	+17 47.3	1.718	2.695	3.4	21.0
2 11	8 6.70	+18 11.3	1.758	2.700	7.7	21.2
2 21	7 59.63	+18 30.4	1.824	2.705	11.6	21.5
3 2	7 55.09	+18 43.1	1.912	2.710	14.9	21.7

391123 2005 WS_{19} 1 24.3 151°.25 4°.3/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.29	+ 3 34.6	2.719	3.488	11.4	21.7
1 2	8 41.90	+ 3 15.7	2.642	3.500	9.1	21.5
1 12	8 34.04	+ 3 9.2	2.591	3.511	6.6	21.4
1 22	8 25.27	+ 3 15.1	2.568	3.521	4.7	21.3
2 1	8 16.31	+ 3 32.2	2.576	3.531	4.6	21.3
2 11	8 7.93	+ 3 58.1	2.615	3.540	6.5	21.4
2 21	8 0.79	+ 4 29.7	2.682	3.548	8.9	21.6
3 2	7 55.37	+ 5 3.9	2.774	3.555	11.2	21.8

281978 2011 HQ_{9} 1 24.3 161°.62 3°.3/22.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.32	+24 6.5	1.581	2.427	14.8	20.9
1 2	8 46.75	+25 18.0	1.516	2.431	10.7	20.7
1 12	8 37.30	+26 33.7	1.475	2.436	6.4	20.5
1 22	8 25.93	+27 44.9	1.462	2.440	3.4	20.3
2 1	8 14.08	+28 43.4	1.477	2.443	5.9	20.5
2 11	8 3.36	+29 24.1	1.520	2.446	10.2	20.7
2 21	7 55.05	+29 45.9	1.588	2.448	14.2	21.0
3 2	7 49.97	+29 50.7	1.675	2.449	17.6	21.2

299468 2006 BH_{115} 1 24.3 258°.43 2°.8/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.12	+10 18.0	1.564	2.391	15.8	21.0
1 2	8 42.93	+10 40.3	1.483	2.384	12.0	20.8
1 12	8 35.13	+11 20.5	1.424	2.376	7.6	20.5
1 22	8 25.53	+12 15.4	1.391	2.369	3.4	20.2
2 1	8 15.34	+13 20.0	1.386	2.361	4.3	20.3
2 11	8 5.99	+14 27.4	1.408	2.354	8.9	20.5
2 21	7 58.67	+15 31.6	1.456	2.346	13.4	20.7
3 2	7 54.24	+16 28.1	1.525	2.338	17.2	21.0

142533 2002 TR_{48} 1 24.3 110°.22 2°.8/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.08	+10 11.6	1.891	2.704	14.0	20.8
1 2	8 42.99	+10 18.2	1.826	2.719	10.6	20.6
1 12	8 34.84	+10 38.0	1.785	2.734	6.7	20.4
1 22	8 25.44	+11 8.8	1.772	2.748	3.3	20.3
2 1	8 15.82	+11 46.9	1.788	2.762	3.9	20.3
2 11	8 7.09	+12 28.2	1.833	2.775	7.5	20.6
2 21	8 0.15	+13 8.6	1.905	2.788	11.1	20.8
3 2	7 55.59	+13 45.1	2.000	2.801	14.2	21.0

269129 2007 RG_{22} 1 24.3 151°.70 3°.4/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.96	+ 8 47.4	1.851	2.660	14.5	21.5
1 2	8 43.75	+ 8 49.2	1.778	2.667	11.1	21.3
1 12	8 35.34	+ 9 5.7	1.729	2.674	7.3	21.1
1 22	8 25.55	+ 9 35.2	1.707	2.680	3.9	20.9
2 1	8 15.43	+10 14.4	1.714	2.686	4.4	20.9
2 11	8 6.17	+10 58.7	1.751	2.691	7.9	21.1
2 21	7 58.72	+11 43.7	1.814	2.696	11.6	21.4
3 2	7 53.77	+12 25.7	1.899	2.700	14.8	21.6

226936 2004 TG_{299} 1 24.3 177°.78 2°.6/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.56	+10 30.7	2.307	3.114	12.0	21.0
1 2	8 41.69	+10 25.1	2.226	3.115	9.1	20.8
1 12	8 34.06	+10 29.8	2.170	3.116	5.9	20.6
1 22	8 25.31	+10 43.5	2.142	3.117	3.0	20.4
2 1	8 16.27	+11 4.0	2.145	3.117	3.6	20.5
2 11	8 7.88	+11 28.4	2.178	3.117	6.7	20.7
2 21	8 0.91	+11 53.9	2.238	3.116	9.9	20.9
3 2	7 55.94	+12 18.2	2.322	3.115	12.7	21.0

120563 1995 FY_{4} 1 24.3 143°.65 2°.2/23.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.44	+24 2.0	2.134	2.964	12.1	20.6
1 2	8 46.07	+24 44.0	2.070	2.979	8.7	20.4
1 12	8 36.58	+25 27.3	2.033	2.992	5.0	20.2
1 22	8 25.78	+26 6.4	2.026	3.005	2.2	20.1
2 1	8 14.77	+26 37.0	2.050	3.017	4.2	20.2
2 11	8 4.70	+26 56.1	2.103	3.028	7.8	20.5
2 21	7 56.49	+27 3.5	2.184	3.039	11.1	20.7
3 2	7 50.75	+27 0.3	2.287	3.048	13.8	20.9

82015 2000 RK_{95} 1 24.3 161°.32 1°.6/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.18	+11 45.9	2.811	3.619	10.1	20.0
1 2	8 39.01	+12 2.7	2.730	3.623	7.5	19.8
1 12	8 32.44	+12 27.9	2.676	3.626	4.7	19.6
1 22	8 24.99	+12 59.8	2.652	3.630	2.0	19.5
2 1	8 17.33	+13 35.7	2.658	3.633	2.7	19.5
2 11	8 10.16	+14 12.9	2.695	3.636	5.5	19.7
2 21	8 4.12	+14 48.7	2.761	3.638	8.3	19.9
3 2	7 59.68	+15 21.1	2.852	3.640	10.7	20.1

412611 2014 OG_{96} 1 24.3 199°.68 2°.5/23.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 53.66	+25 41.2	2.123	2.955	12.0	22.3
1 2	8 46.42	+26 10.6	2.042	2.951	8.8	22.1
1 12	8 36.89	+26 40.0	1.988	2.946	5.2	21.9
1 22	8 25.87	+27 4.3	1.962	2.941	2.6	21.7
2 1	8 14.46	+27 19.1	1.968	2.934	4.5	21.8
2 11	8 3.91	+27 22.1	2.003	2.927	8.2	22.0
2 21	7 55.21	+27 13.4	2.065	2.919	11.6	22.2
3 2	7 49.09	+26 54.5	2.149	2.911	14.6	22.4

367356 2008 FS_{12} 1 24.3 257°.46 2°.5/23.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.20	+24 55.5	1.855	2.696	13.1	21.7
1 2	8 44.95	+25 22.5	1.772	2.686	9.6	21.4
1 12	8 36.19	+25 50.9	1.714	2.675	5.6	21.2
1 22	8 25.75	+26 15.1	1.684	2.664	2.6	20.9
2 1	8 14.82	+26 30.2	1.683	2.652	4.8	21.1
2 11	8 4.77	+26 33.5	1.710	2.641	8.9	21.3
2 21	7 56.73	+26 24.5	1.763	2.629	12.7	21.5
3 2	7 51.47	+26 4.8	1.838	2.617	16.0	21.7

64389 2001 UU_{149} 1 24.3 312°.34 3°.4/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.30	+10 59.5	1.381	2.217	17.0	19.3
1 2	8 43.31	+10 54.5	1.304	2.210	13.0	19.1
1 12	8 35.46	+11 6.1	1.248	2.202	8.3	18.8
1 22	8 25.64	+11 32.7	1.217	2.195	4.0	18.5
2 1	8 15.21	+12 10.3	1.212	2.188	4.9	18.5
2 11	8 5.75	+12 53.2	1.234	2.181	9.7	18.8
2 21	7 58.59	+13 36.0	1.279	2.174	14.4	19.0
3 2	7 54.61	+14 14.3	1.344	2.168	18.5	19.3

460329 2014 QQ_{422} 1 24.3 77°.79 4°.4/22.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.75	+30 4.0	1.678	2.519	14.2	21.5
1 2	8 48.07	+30 34.5	1.631	2.541	10.5	21.4
1 12	8 37.77	+30 59.6	1.609	2.564	6.7	21.2
1 22	8 26.01	+31 13.0	1.614	2.586	4.4	21.1
2 1	8 14.25	+31 10.3	1.648	2.607	6.2	21.2
2 11	8 3.97	+30 51.0	1.710	2.629	9.7	21.5
2 21	7 56.20	+30 17.6	1.796	2.650	13.1	21.8
3 2	7 51.52	+29 33.8	1.904	2.671	16.0	22.0

205791 2002 CL_{126} 1 24.3 272°.51 0°.2/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.62	+18 27.0	1.644	2.483	14.6	20.9
1 2	8 44.85	+18 45.0	1.552	2.464	10.7	20.6
1 12	8 36.31	+19 11.2	1.483	2.445	6.2	20.3
1 22	8 25.81	+19 41.4	1.442	2.425	1.2	19.9
2 1	8 14.58	+20 10.6	1.429	2.405	4.1	20.1
2 11	8 4.13	+20 34.4	1.444	2.385	9.1	20.3
2 21	7 55.75	+20 50.0	1.484	2.365	13.8	20.5
3 2	7 50.37	+20 56.7	1.545	2.344	17.7	20.7

295943 2008 XN_{30} 1 24.3 222°.00 2°.8/22.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.08	+29 2.4	2.610	3.440	10.1	20.5
1 2	8 43.46	+29 15.0	2.530	3.436	7.4	20.3
1 12	8 35.04	+29 24.4	2.476	3.431	4.6	20.1
1 22	8 25.51	+29 27.0	2.453	3.426	2.8	20.0
2 1	8 15.76	+29 20.2	2.460	3.421	4.3	20.1
2 11	8 6.74	+29 2.9	2.498	3.416	7.1	20.3
2 21	7 59.24	+28 35.7	2.562	3.411	9.8	20.4
3 2	7 53.81	+28 0.4	2.651	3.406	12.3	20.6

325236 2008 GF_{64} 1 24.3 223°.19 0°.3/24.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.08	+16 29.3	2.202	3.027	11.9	22.0
1 2	8 42.30	+16 55.6	2.114	3.019	8.7	21.8
1 12	8 34.54	+17 29.9	2.052	3.010	5.1	21.6
1 22	8 25.45	+18 8.6	2.018	3.001	1.1	21.3
2 1	8 15.94	+18 48.0	2.015	2.991	3.1	21.4
2 11	8 7.05	+19 24.2	2.042	2.981	7.0	21.6
2 21	7 59.67	+19 54.7	2.096	2.970	10.6	21.8
3 2	7 54.48	+20 17.8	2.173	2.959	13.7	22.0

469121 2015 DM_{186} 1 24.3 253°.54 3°.5/21.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.72	+27 32.3	2.309	3.150	10.9	21.3
1 2	8 41.34	+28 36.3	2.235	3.147	8.0	21.1
1 12	8 33.99	+29 40.6	2.188	3.144	5.0	20.9
1 22	8 25.34	+30 39.4	2.170	3.141	3.5	20.8
2 1	8 16.31	+31 27.5	2.182	3.139	5.1	20.9
2 11	8 7.96	+32 1.5	2.222	3.136	8.1	21.1
2 21	8 1.16	+32 20.5	2.289	3.133	11.0	21.3
3 2	7 56.58	+32 25.5	2.377	3.130	13.6	21.4

120939 1998 SV_{162} 1 24.3 126°.57 0°.2/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.39	+17 31.5	2.286	3.113	11.5	20.3
1 2	8 41.59	+17 50.8	2.215	3.121	8.3	20.1
1 12	8 34.00	+18 16.0	2.170	3.130	4.8	19.9
1 22	8 25.32	+18 44.1	2.154	3.138	1.0	19.6
2 1	8 16.42	+19 11.7	2.169	3.145	2.9	19.8
2 11	8 8.24	+19 35.8	2.214	3.153	6.6	20.0
2 21	8 1.57	+19 54.6	2.286	3.160	9.8	20.2
3 2	7 56.95	+20 7.1	2.382	3.167	12.6	20.4

162468 2000 KW_{23} 1 24.3 129°.59 4°.9/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 45.17	+ 0 14.7	2.912	3.667	11.1	19.7
1 2	8 39.61	− 0 6.1	2.839	3.681	9.0	19.6
1 12	8 32.74	− 0 13.3	2.790	3.695	6.9	19.5
1 22	8 25.08	− 0 6.7	2.770	3.709	5.3	19.4
2 1	8 17.27	+ 0 12.6	2.779	3.722	5.1	19.4
2 11	8 9.97	+ 0 42.2	2.817	3.734	6.4	19.5
2 21	8 3.77	+ 1 19.2	2.884	3.747	8.4	19.7
3 2	7 59.11	+ 2 0.0	2.976	3.758	10.4	19.8

184799 2005 TE_{90} 1 24.3 208°.77 1°.4/23.5 18

12 23	8 49.62	+22 5.3	2.285	3.116	11.3	21.4
1 2	8 43.37	+22 37.1	2.201	3.110	8.2	21.1
1 12	8 35.13	+23 12.2	2.144	3.104	4.7	20.9
1 22	8 25.57	+23 46.3	2.115	3.097	1.5	20.7
2 1	8 15.64	+24 15.3	2.118	3.090	3.6	20.8
2 11	8 6.38	+24 36.2	2.151	3.082	7.3	21.0
2 21	7 58.69	+24 47.7	2.211	3.074	10.6	21.2
3 2	7 53.22	+24 50.1	2.294	3.065	13.5	21.4

318117 2004 JH_{31} 1 24.3 238°.89 5°.4/20.4 17

12 23	8 51.36	+32 32.3	2.205	3.040	11.5	20.9
1 2	8 45.06	+33 56.4	2.123	3.026	8.8	20.7
1 12	8 36.31	+35 18.2	2.067	3.011	6.3	20.6
1 22	8 25.83	+36 29.9	2.041	2.996	5.5	20.5
2 1	8 14.72	+37 24.7	2.044	2.981	7.1	20.5
2 11	8 4.27	+37 58.8	2.075	2.964	9.9	20.7
2 21	7 55.63	+38 11.9	2.131	2.948	12.8	20.8
3 2	7 49.64	+38 6.6	2.208	2.930	15.3	21.0

350347 2012 UM_{108} 1 24.3 47°.33 3°.3/25.6 18

12 23	8 50.39	+11 44.8	1.183	2.028	18.8	20.8
1 2	8 44.89	+11 34.8	1.128	2.038	14.1	20.5
1 12	8 36.31	+11 42.1	1.093	2.049	8.8	20.3
1 22	8 25.81	+12 4.3	1.082	2.061	4.0	20.0
2 1	8 15.00	+12 36.6	1.096	2.072	5.1	20.1
2 11	8 5.61	+13 13.0	1.136	2.085	10.1	20.4
2 21	7 58.93	+13 48.2	1.199	2.097	14.9	20.7
3 2	7 55.71	+14 18.4	1.281	2.110	19.0	21.0

232733 2004 ES_{43} 1 24.3 2°.37 6°.3/20.2 18

12 23	8 43.35	+28 45.6	1.411	2.279	14.8	18.7
1 2	8 39.93	+30 41.6	1.354	2.277	11.0	18.4
1 12	8 33.61	+32 39.0	1.320	2.277	7.5	18.2
1 22	8 25.32	+34 26.2	1.313	2.278	6.3	18.2
2 1	8 16.47	+35 52.0	1.331	2.281	8.6	18.3
2 11	8 8.71	+36 50.3	1.374	2.285	12.3	18.5
2 21	8 3.38	+37 20.2	1.439	2.291	15.9	18.8
3 2	8 1.32	+37 24.7	1.523	2.298	19.0	19.0

241519 2009 FY_{8} 1 24.3 77°.38 3°.0/26.5 18

12 23	8 44.11	+ 7 55.6	2.350	3.154	12.0	20.5
1 2	8 39.17	+ 8 6.3	2.277	3.162	9.2	20.3
1 12	8 32.63	+ 8 29.8	2.228	3.170	6.1	20.1
1 22	8 25.08	+ 9 4.3	2.207	3.178	3.4	20.0
2 1	8 17.32	+ 9 47.1	2.215	3.186	3.7	20.0
2 11	8 10.16	+10 34.4	2.254	3.194	6.4	20.2
2 21	8 4.33	+11 22.5	2.319	3.202	9.4	20.4
3 2	8 0.34	+12 8.2	2.410	3.210	12.1	20.6

281230 2007 JT_{3} 1 24.3 287°.40 4°.0/26.3 18

12 23	8 46.68	+ 8 4.5	1.956	2.765	13.8	20.8
1 2	8 41.55	+ 7 49.9	1.857	2.744	10.8	20.5
1 12	8 34.26	+ 7 49.1	1.781	2.723	7.4	20.3
1 22	8 25.44	+ 8 1.8	1.731	2.701	4.4	20.0
2 1	8 16.05	+ 8 26.4	1.710	2.679	4.8	20.0
2 11	8 7.20	+ 8 59.4	1.718	2.658	8.1	20.2
2 21	7 59.91	+ 9 36.9	1.751	2.636	11.8	20.3
3 2	7 54.95	+10 14.9	1.808	2.614	15.2	20.5

297008 2010 FZ_{82} 1 24.3 238°.05 0°.2/24.5 18

12 23	8 50.69	+16 26.6	1.851	2.680	13.6	21.8
1 2	8 44.63	+16 59.8	1.759	2.666	10.1	21.5
1 12	8 36.09	+17 43.2	1.691	2.651	5.8	21.2
1 22	8 25.81	+18 32.6	1.652	2.635	1.2	20.9
2 1	8 14.89	+19 22.8	1.642	2.619	3.6	21.0
2 11	8 4.64	+20 8.5	1.662	2.602	8.3	21.3
2 21	7 56.23	+20 46.4	1.708	2.584	12.5	21.5
3 2	7 50.49	+21 14.7	1.776	2.565	16.1	21.7

372575 2009 UC_{77} 1 24.3 73°.67 0°.4/24.5 18

12 23	8 48.54	+17 14.0	1.855	2.690	13.4	21.6
1 2	8 42.72	+17 27.8	1.791	2.700	9.7	21.4
1 12	8 34.77	+17 49.0	1.751	2.711	5.6	21.1
1 22	8 25.51	+18 14.0	1.738	2.721	1.2	20.8
2 1	8 16.02	+18 38.9	1.755	2.732	3.4	21.0
2 11	8 7.46	+19 0.4	1.801	2.743	7.6	21.3
2 21	8 0.75	+19 16.4	1.872	2.753	11.3	21.6
3 2	7 56.51	+19 25.7	1.966	2.764	14.5	21.8

53849 2000 FU_{15} 1 24.3 52°.09 1°.5/23.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 50.48	+19 19.6	1.203	2.061	17.6	18.5
1 2	8 45.04	+20 12.6	1.152	2.074	12.7	18.2
1 12	8 36.44	+21 15.8	1.123	2.087	7.2	18.0
1 22	8 25.86	+22 20.8	1.118	2.101	1.8	17.7
2 1	8 14.96	+23 18.7	1.139	2.115	5.1	17.9
2 11	8 5.53	+24 3.1	1.187	2.129	10.5	18.3
2 21	7 58.92	+24 31.6	1.256	2.144	15.3	18.6
3 2	7 55.84	+24 44.5	1.345	2.158	19.1	18.9

201922 2004 CQ_{52} 1 24.3 329°.39 0°.3/24.2 18

12 23	8 45.01	+18 21.6	1.882	2.724	12.9	19.7
1 2	8 40.38	+18 47.9	1.799	2.713	9.4	19.5
1 12	8 33.58	+19 21.8	1.739	2.701	5.4	19.2
1 22	8 25.31	+19 59.5	1.707	2.690	1.0	18.9
2 1	8 16.59	+20 36.5	1.704	2.680	3.5	19.0
2 11	8 8.59	+21 8.5	1.728	2.670	7.9	19.3
2 21	8 2.28	+21 32.8	1.779	2.661	11.8	19.5
3 2	7 58.41	+21 48.3	1.851	2.652	15.1	19.7

367924 2012 BT_{149} 1 24.3 200°.46 2°.7/22.7 18

12 23	8 49.85	+24 5.1	1.899	2.740	12.8	21.1
1 2	8 43.92	+25 3.4	1.825	2.738	9.3	20.9
1 12	8 35.61	+26 5.0	1.776	2.736	5.5	20.7
1 22	8 25.71	+27 3.6	1.756	2.734	2.8	20.5
2 1	8 15.37	+27 52.8	1.765	2.731	5.0	20.6
2 11	8 5.86	+28 28.4	1.802	2.728	8.8	20.9
2 21	7 58.27	+28 48.9	1.865	2.725	12.4	21.1
3 2	7 53.34	+28 55.4	1.950	2.721	15.5	21.3

245549 2005 TE_{192} 1 24.3 239°.61 0°.1/24.3 18

12 23	8 51.62	+18 20.5	1.770	2.604	14.0	21.3
1 2	8 45.36	+18 38.1	1.682	2.592	10.3	21.1
1 12	8 36.52	+19 3.1	1.619	2.579	5.9	20.8
1 22	8 25.91	+19 31.6	1.583	2.566	1.1	20.4
2 1	8 14.71	+19 58.7	1.576	2.552	3.8	20.6
2 11	8 4.30	+20 20.7	1.598	2.538	8.6	20.8
2 21	7 55.88	+20 35.2	1.646	2.524	12.8	21.0
3 2	7 50.28	+20 41.6	1.716	2.508	16.5	21.3

38726 2000 QQ_{131} 1 24.3 48°.68 4°.1/26.4 18

12 23	8 47.78	+ 8 3.3	1.403	2.230	17.3	18.4
1 2	8 42.70	+ 8 10.3	1.340	2.238	13.3	18.2
1 12	8 34.99	+ 8 37.7	1.298	2.246	8.8	17.9
1 22	8 25.59	+ 9 23.0	1.281	2.255	4.7	17.7
2 1	8 15.82	+10 21.3	1.290	2.264	5.1	17.8
2 11	8 7.14	+11 25.6	1.326	2.273	9.2	18.0
2 21	8 0.70	+12 29.3	1.386	2.282	13.5	18.3
3 2	7 57.24	+13 27.0	1.468	2.291	17.3	18.5

77133 2001 DM_{101} 1 24.3 189°.81 0°.8/23.7 18

12 23	8 46.68	+18 34.9	2.376	3.205	11.0	19.8
1 2	8 41.20	+19 36.5	2.295	3.204	8.0	19.6
1 12	8 33.90	+20 45.3	2.242	3.203	4.5	19.4
1 22	8 25.38	+21 56.4	2.218	3.201	1.1	19.1
2 1	8 16.50	+23 4.8	2.226	3.199	3.3	19.3
2 11	8 8.18	+24 5.9	2.264	3.197	6.8	19.5
2 21	8 1.26	+24 56.7	2.330	3.195	10.1	19.7
3 2	7 56.36	+25 36.1	2.420	3.192	12.8	19.9

465791 2010 BU_{34} 1 24.3 57°.17 3°.0/25.7 18

12 23	8 48.05	+11 19.6	2.149	2.962	12.6	20.9
1 2	8 42.10	+10 48.7	2.077	2.969	9.6	20.7
1 12	8 34.33	+10 27.0	2.030	2.977	6.2	20.5
1 22	8 25.45	+10 13.9	2.011	2.985	3.3	20.3
2 1	8 16.36	+10 8.3	2.022	2.993	3.9	20.4
2 11	8 8.05	+10 8.3	2.062	3.001	7.0	20.6
2 21	8 1.29	+10 11.6	2.129	3.009	10.2	20.8
3 2	7 56.65	+10 16.3	2.219	3.017	13.1	21.0

291813 2006 KD_{97} 1 24.3 188°.31 1°.0/24.9 18

12 23	8 50.00	+14 58.5	2.141	2.960	12.4	21.7
1 2	8 43.68	+15 16.4	2.059	2.960	9.2	21.5
1 12	8 35.33	+15 43.0	2.002	2.958	5.4	21.3
1 22	8 25.66	+16 15.2	1.975	2.957	1.6	21.0
2 1	8 15.63	+16 49.4	1.978	2.954	3.1	21.1
2 11	8 6.31	+17 21.9	2.011	2.951	7.1	21.4
2 21	7 58.59	+17 50.2	2.071	2.947	10.7	21.6
3 2	7 53.14	+18 12.5	2.155	2.942	13.7	21.8

472394 2015 BU_{143} 1 24.3 192°.40 1°.1/23.5 18

12 23	8 45.89	+19 43.7	2.423	3.255	10.7	20.8
1 2	8 40.61	+20 41.4	2.344	3.254	7.7	20.6
1 12	8 33.55	+21 45.1	2.292	3.253	4.4	20.3
1 22	8 25.33	+22 50.3	2.269	3.251	1.2	20.1
2 1	8 16.76	+23 51.9	2.277	3.250	3.3	20.3
2 11	8 8.76	+24 45.9	2.316	3.248	6.8	20.5
2 21	8 2.12	+25 29.7	2.382	3.246	9.9	20.7
3 2	7 57.46	+26 2.5	2.472	3.244	12.6	20.9

23535 1993 QL_7 1 24.3 160°.52 0°.5/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 46.49	+16 5.5	2.092	2.922	12.3	19.4
1 2	8 41.18	+16 31.2	2.015	2.922	9.0	19.2
1 12	8 33.91	+17 5.3	1.964	2.923	5.2	18.9
1 22	8 25.40	+17 44.4	1.940	2.923	1.2	18.6
2 1	8 16.56	+18 24.4	1.947	2.924	3.1	18.8
2 11	8 8.42	+19 1.4	1.982	2.924	7.0	19.0
2 21	8 1.86	+19 32.7	2.045	2.924	10.6	19.3
3 2	7 57.49	+19 56.7	2.131	2.925	13.7	19.5

499983 2011 MK_3 1 24.3 170°.83 0°.9/25.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.07	+13 10.0	3.152	3.960	9.1	22.5
1 2	8 38.87	+13 46.2	3.069	3.963	6.7	22.3
1 12	8 32.39	+14 29.9	3.013	3.967	4.0	22.2
1 22	8 25.09	+15 18.7	2.988	3.969	1.3	22.0
2 1	8 17.58	+16 9.6	2.995	3.971	2.2	22.0
2 11	8 10.48	+16 59.7	3.034	3.973	5.0	22.2
2 21	8 4.38	+17 46.4	3.102	3.974	7.6	22.4
3 2	7 59.72	+18 27.9	3.196	3.975	9.9	22.6

380375 2002 TQ_{333} 1 24.3 89°.92 2°.0/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.38	+11 17.5	2.206	3.022	12.2	21.4
1 2	8 40.21	+11 36.0	2.134	3.030	9.1	21.2
1 12	8 33.29	+12 5.6	2.086	3.037	5.7	21.0
1 22	8 25.28	+12 44.1	2.067	3.045	2.5	20.8
2 1	8 17.01	+13 27.9	2.078	3.053	3.2	20.8
2 11	8 9.43	+14 13.2	2.118	3.061	6.6	21.1
2 21	8 3.29	+14 56.3	2.186	3.068	9.9	21.3
3 2	7 59.15	+15 34.7	2.277	3.076	12.7	21.5

269024 2007 EW_{219} 1 24.4 45°.07 3°.7/22.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.91	+27 41.1	1.856	2.701	12.9	20.9
1 2	8 43.98	+28 25.5	1.790	2.704	9.5	20.6
1 12	8 35.63	+29 8.9	1.748	2.706	5.9	20.4
1 22	8 25.76	+29 45.0	1.735	2.709	3.7	20.3
2 1	8 15.56	+30 8.6	1.749	2.711	5.6	20.4
2 11	8 6.34	+30 16.8	1.792	2.714	9.1	20.6
2 21	7 59.17	+30 10.1	1.859	2.717	12.6	20.9
3 2	7 54.73	+29 50.4	1.948	2.720	15.5	21.1

25918 2001 DT_{13} 1 24.4 176°.36 1°.2/23.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.61	+19 39.7	1.903	2.739	13.0	19.1
1 2	8 43.68	+20 33.7	1.829	2.740	9.4	18.9
1 12	8 35.46	+21 35.0	1.780	2.741	5.4	18.7
1 22	8 25.74	+22 37.9	1.760	2.742	1.4	18.4
2 1	8 15.59	+23 36.2	1.769	2.743	4.0	18.6
2 11	8 6.25	+24 25.0	1.808	2.743	8.2	18.8
2 21	7 58.75	+25 1.7	1.873	2.742	11.9	19.1
3 2	7 53.82	+25 25.9	1.960	2.741	15.1	19.3

99482 2002 CP_{159} 1 24.4 33°.75 2°.5/23.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.56	+22 5.1	1.224	2.086	17.0	19.2
1 2	8 44.42	+22 55.2	1.171	2.095	12.3	19.0
1 12	8 36.14	+23 51.7	1.141	2.105	7.1	18.7
1 22	8 25.87	+24 46.2	1.135	2.116	2.6	18.5
2 1	8 15.27	+25 30.5	1.155	2.128	5.7	18.7
2 11	8 6.11	+25 59.3	1.200	2.140	10.8	19.0
2 21	7 59.74	+26 11.5	1.267	2.152	15.3	19.3
3 2	7 56.87	+26 8.5	1.354	2.165	19.1	19.6

114560 2003 BL_{52} 1 24.4 278°.95 2°.1/23.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.70	+24 51.8	2.397	3.234	10.6	19.5
1 2	8 41.25	+25 22.4	2.314	3.226	7.7	19.3
1 12	8 33.95	+25 54.2	2.257	3.217	4.6	19.1
1 22	8 25.43	+26 22.9	2.229	3.208	2.2	18.9
2 1	8 16.58	+26 44.9	2.231	3.199	3.9	19.0
2 11	8 8.36	+26 57.7	2.262	3.190	7.2	19.2
2 21	8 1.60	+27 0.3	2.321	3.181	10.3	19.4
3 2	7 56.92	+26 53.4	2.402	3.172	13.0	19.6

490179 2008 UW_{272} 1 24.4 19°.71 5°.2/22.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.10	+28 16.0	1.307	2.166	16.3	21.4
1 2	8 46.39	+29 14.9	1.248	2.168	12.1	21.2
1 12	8 37.34	+30 12.9	1.211	2.171	7.7	20.9
1 22	8 26.12	+31 0.2	1.200	2.173	5.2	20.8
2 1	8 14.45	+31 28.6	1.215	2.176	7.5	21.0
2 11	8 4.22	+31 34.5	1.254	2.180	11.9	21.2
2 21	7 56.89	+31 19.4	1.316	2.184	16.1	21.5
3 2	7 53.26	+30 47.4	1.397	2.188	19.6	21.7

51146 2000 HW_{49} 1 24.4 72°.96 6°.4/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.15	− 0 30.2	2.237	3.003	13.7	19.4
1 2	8 40.04	− 1 2.8	2.159	3.007	11.2	19.3
1 12	8 33.21	− 1 17.8	2.105	3.010	8.7	19.1
1 22	8 25.29	− 1 14.3	2.076	3.014	6.8	19.0
2 1	8 17.10	− 0 53.1	2.075	3.018	6.6	19.0
2 11	8 9.52	− 0 17.0	2.102	3.022	8.2	19.1
2 21	8 3.32	+ 0 29.5	2.156	3.025	10.6	19.2
3 2	7 59.07	+ 1 21.5	2.232	3.029	13.0	19.4

340679 2006 RM_{69} 1 24.4 213°.90 2°.7/22.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 47.94	+27 29.8	2.574	3.409	10.1	21.3
1 2	8 42.02	+28 0.7	2.496	3.405	7.4	21.1
1 12	8 34.33	+28 30.4	2.445	3.401	4.5	20.9
1 22	8 25.51	+28 55.0	2.423	3.397	2.7	20.8
2 1	8 16.42	+29 10.9	2.431	3.393	4.2	20.9
2 11	8 7.98	+29 16.2	2.469	3.389	7.1	21.0
2 21	8 0.98	+29 10.7	2.534	3.384	9.9	21.2
3 2	7 56.00	+28 55.5	2.622	3.379	12.3	21.4

124375 2001 QV_{152} 1 24.4 203°.30 0°.6/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.40	+19 34.0	1.861	2.692	13.5	20.8
1 2	8 46.50	+19 54.1	1.779	2.687	9.9	20.5
1 12	8 37.12	+20 19.9	1.722	2.682	5.7	20.3
1 22	8 26.08	+20 47.0	1.693	2.676	1.1	19.9
2 1	8 14.57	+21 11.0	1.694	2.669	3.8	20.1
2 11	8 3.93	+21 28.3	1.724	2.662	8.3	20.4
2 21	7 55.26	+21 37.4	1.781	2.653	12.3	20.6
3 2	7 49.34	+21 38.2	1.861	2.644	15.7	20.8

175419 Albiesachs 1 24.4 171°.92 1°.4/25.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.86	+12 48.7	2.714	3.525	10.3	21.3
1 2	8 39.62	+13 7.6	2.632	3.528	7.6	21.1
1 12	8 32.89	+13 34.8	2.577	3.529	4.7	20.9
1 22	8 25.23	+14 8.0	2.551	3.531	1.8	20.7
2 1	8 17.34	+14 44.7	2.557	3.532	2.6	20.8
2 11	8 9.95	+15 21.8	2.593	3.533	5.6	21.0
2 21	8 3.74	+15 56.8	2.657	3.534	8.5	21.1
3 2	7 59.20	+16 27.6	2.746	3.534	11.1	21.3

331328 2011 YT_{59} 1 24.4 297°.52 0°.1/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.82	+17 10.5	1.612	2.455	14.7	21.5
1 2	8 42.78	+17 46.1	1.531	2.445	10.7	21.2
1 12	8 35.15	+18 32.6	1.473	2.435	6.2	21.0
1 22	8 25.72	+19 25.2	1.442	2.426	1.2	20.6
2 1	8 15.72	+20 17.7	1.439	2.416	4.0	20.8
2 11	8 6.55	+21 4.3	1.464	2.407	8.9	21.0
2 21	7 59.41	+21 41.4	1.513	2.398	13.3	21.3
3 2	7 55.16	+22 7.4	1.584	2.389	17.1	21.5

193837 2001 QQ_{52} 1 24.4 123°.40 0°.3/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.70	+17 20.5	1.698	2.530	14.5	21.3
1 2	8 45.93	+18 4.2	1.637	2.546	10.5	21.1
1 12	8 36.72	+18 56.8	1.602	2.562	6.0	20.8
1 22	8 25.99	+19 52.7	1.594	2.578	1.1	20.5
2 1	8 15.00	+20 45.7	1.617	2.592	3.8	20.8
2 11	8 5.10	+21 30.8	1.667	2.606	8.4	21.1
2 21	7 57.33	+22 5.5	1.744	2.620	12.4	21.3
3 2	7 52.39	+22 29.0	1.843	2.632	15.7	21.6

186845 2004 GV_2 1 24.4 178°.11 1°.5/23.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.34	+18 10.4	2.298	3.121	11.6	20.2
1 2	8 44.02	+19 56.5	2.217	3.123	8.3	20.0
1 12	8 35.63	+21 52.4	2.164	3.124	4.7	19.8
1 22	8 25.81	+23 50.9	2.143	3.125	1.5	19.5
2 1	8 15.47	+25 44.3	2.156	3.125	3.9	19.7
2 11	8 5.67	+27 25.7	2.200	3.125	7.6	19.9
2 21	7 57.35	+28 51.2	2.274	3.124	10.9	20.1
3 2	7 51.25	+29 59.5	2.372	3.122	13.7	20.3

453311 2008 VA_{25} 1 24.4 2°.03 2°.9/23.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.15	+22 24.3	1.079	1.951	18.0	20.5
1 2	8 43.14	+23 12.1	1.020	1.949	13.1	20.2
1 12	8 35.67	+24 7.5	0.982	1.948	7.6	19.9
1 22	8 25.85	+25 1.8	0.967	1.949	3.0	19.6
2 1	8 15.48	+25 45.5	0.976	1.950	6.2	19.8
2 11	8 6.56	+26 12.5	1.009	1.953	11.8	20.1
2 21	8 0.64	+26 21.0	1.063	1.957	16.9	20.4
3 2	7 58.56	+26 12.7	1.135	1.962	21.1	20.7

343989 2011 OR_{24} 1 24.4 143°.08 1°.2/25.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.94	+15 2.5	2.768	3.581	10.1	21.2
1 2	8 41.02	+14 55.5	2.691	3.588	7.4	21.1
1 12	8 33.65	+14 54.0	2.641	3.595	4.4	20.9
1 22	8 25.39	+14 56.5	2.621	3.602	1.6	20.7
2 1	8 16.97	+15 1.3	2.633	3.608	2.6	20.8
2 11	8 9.13	+15 6.6	2.675	3.614	5.6	21.0
2 21	8 2.52	+15 11.0	2.746	3.620	8.4	21.2
3 2	7 57.61	+15 13.5	2.841	3.625	10.8	21.3

369093 2008 GM_{101} 1 24.4 318°.96 1°.8/23.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.02	+21 21.5	1.648	2.496	14.1	21.2
1 2	8 42.89	+22 6.8	1.572	2.489	10.3	20.9
1 12	8 35.19	+22 58.6	1.520	2.483	5.9	20.6
1 22	8 25.74	+23 51.0	1.495	2.477	1.9	20.4
2 1	8 15.78	+24 37.3	1.499	2.472	4.6	20.5
2 11	8 6.72	+25 12.6	1.529	2.466	9.2	20.8
2 21	7 59.74	+25 34.8	1.585	2.461	13.3	21.0
3 2	7 55.62	+25 43.7	1.661	2.456	16.8	21.2

223992 2005 EO_{31} 1 24.4 310°.34 0°.6/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 42.67	+19 58.6	2.845	3.676	9.3	20.3
1 2	8 38.09	+20 27.1	2.756	3.666	6.7	20.1
1 12	8 32.07	+20 59.8	2.695	3.656	3.8	19.9
1 22	8 25.10	+21 33.6	2.663	3.646	0.9	19.7
2 1	8 17.85	+22 5.6	2.661	3.636	2.7	19.8
2 11	8 11.06	+22 33.2	2.690	3.626	5.7	20.0
2 21	8 5.37	+22 54.8	2.747	3.616	8.6	20.2
3 2	8 1.30	+23 9.3	2.827	3.607	11.0	20.3

456338 2006 SE_{413} 1 24.4 39°.27 4°.9/27.3 16

12 23	8 46.38	+ 4 15.1	1.242	2.066	19.3	20.8
1 2	8 41.70	+ 4 56.6	1.199	2.093	14.9	20.6
1 12	8 34.40	+ 6 5.7	1.177	2.121	10.0	20.4
1 22	8 25.55	+ 7 37.5	1.179	2.150	5.7	20.3
2 1	8 16.57	+ 9 23.1	1.207	2.180	5.5	20.3
2 11	8 8.93	+11 11.7	1.261	2.210	9.3	20.6
2 21	8 3.67	+12 54.0	1.339	2.240	13.5	21.0
3 2	8 1.41	+14 23.3	1.439	2.271	17.1	21.3

164176 2004 BE_{46} 1 24.4 358°.17 0°.3/24.5 18

12 23	8 46.44	+17 45.1	1.895	2.733	13.0	19.6
1 2	8 41.33	+17 55.7	1.820	2.731	9.5	19.4
1 12	8 34.10	+18 13.1	1.770	2.730	5.5	19.2
1 22	8 25.52	+18 34.2	1.747	2.730	1.1	18.9
2 1	8 16.61	+18 55.4	1.753	2.730	3.3	19.0
2 11	8 8.50	+19 13.4	1.787	2.730	7.5	19.3
2 21	8 2.14	+19 26.2	1.847	2.730	11.3	19.5
3 2	7 58.17	+19 32.5	1.930	2.732	14.6	19.7

304832 2007 RW_{23} 1 24.4 136°.09 0°.7/24.7 18

12 23	8 51.80	+16 15.7	1.788	2.617	14.1	20.9
1 2	8 45.22	+16 28.7	1.721	2.627	10.3	20.6
1 12	8 36.31	+16 50.2	1.678	2.636	6.0	20.4
1 22	8 25.95	+17 16.6	1.663	2.645	1.5	20.1
2 1	8 15.31	+17 43.8	1.677	2.654	3.5	20.3
2 11	8 5.66	+18 7.9	1.720	2.662	7.9	20.6
2 21	7 58.00	+18 26.8	1.790	2.669	11.9	20.8
3 2	7 53.01	+18 39.2	1.882	2.676	15.2	21.1

493861 2015 XB_{62} 1 24.4 223°.82 0°.3/24.5 18

12 23	8 50.50	+15 45.9	1.765	2.596	14.1	21.8
1 2	8 44.58	+16 28.3	1.680	2.587	10.4	21.6
1 12	8 36.14	+17 22.5	1.619	2.578	6.1	21.3
1 22	8 25.95	+18 23.7	1.586	2.569	1.3	20.9
2 1	8 15.16	+19 26.0	1.582	2.558	3.7	21.1
2 11	8 5.12	+20 23.2	1.607	2.547	8.5	21.3
2 21	7 56.99	+21 11.5	1.658	2.536	12.7	21.6
3 2	7 51.61	+21 48.7	1.731	2.524	16.4	21.8

205562 2001 SH_{291} 1 24.4 145°.97 2°.1/25.6 17

12 23	8 47.58	+11 52.8	2.844	3.645	10.2	20.8
1 2	8 41.43	+11 37.8	2.767	3.655	7.6	20.7
1 12	8 33.87	+11 29.7	2.717	3.663	4.8	20.5
1 22	8 25.46	+11 27.7	2.697	3.672	2.4	20.3
2 1	8 16.88	+11 30.3	2.708	3.680	2.9	20.4
2 11	8 8.88	+11 35.9	2.750	3.687	5.6	20.6
2 21	8 2.07	+11 42.9	2.821	3.695	8.2	20.8
3 2	7 56.92	+11 49.6	2.918	3.701	10.6	20.9

266407 2007 FZ_{10} 1 24.4 262°.62 1°.1/23.8 18

12 23	8 48.81	+21 11.9	1.964	2.802	12.6	20.8
1 2	8 43.06	+21 33.5	1.886	2.798	9.1	20.5
1 12	8 35.11	+21 59.3	1.832	2.794	5.2	20.3
1 22	8 25.73	+22 25.0	1.807	2.790	1.3	20.0
2 1	8 15.97	+22 46.5	1.812	2.786	3.7	20.2
2 11	8 7.03	+23 0.8	1.845	2.782	7.8	20.4
2 21	7 59.86	+23 6.4	1.904	2.778	11.6	20.6
3 2	7 55.16	+23 3.5	1.986	2.774	14.7	20.8

378330 2007 GO_{64} 1 24.4 230°.20 1°.0/24.9 17

12 23	8 47.56	+15 17.7	2.060	2.887	12.6	21.6
1 2	8 42.02	+15 28.3	1.979	2.884	9.3	21.4
1 12	8 34.47	+15 47.3	1.923	2.881	5.5	21.2
1 22	8 25.61	+16 12.1	1.895	2.877	1.6	20.9
2 1	8 16.39	+16 39.3	1.897	2.874	3.2	21.0
2 11	8 7.88	+17 5.4	1.928	2.870	7.1	21.2
2 21	8 0.98	+17 27.9	1.986	2.867	10.8	21.5
3 2	7 56.33	+17 45.2	2.067	2.863	13.9	21.7

411165 2010 DF_{1} 1 24.4 281°.88 11°.5/28.4 14 C

12 23	8 59.04	− 5 2.6	1.210	1.978	22.9	24.8
1 2	8 53.05	− 5 13.5	1.080	1.927	19.9	24.4
1 12	8 42.51	− 4 43.3	0.965	1.874	16.1	24.0
1 22	8 27.53	− 3 19.6	0.872	1.818	12.5	23.5
2 1	8 9.15	− 0 54.5	0.804	1.758	11.9	23.3
2 11	7 49.59	+ 2 27.2	0.763	1.696	16.2	23.2
2 21	7 31.60	+ 6 27.2	0.746	1.630	23.1	23.3
3 2	7 17.66	+10 40.8	0.750	1.562	30.5	23.5

39930 Kalauch 1 24.4 334°.28 0°.6/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 46.98	+18 29.8	1.251	2.111	16.9	19.3
1 2	8 42.77	+18 58.3	1.177	2.099	12.4	19.0
1 12	8 35.41	+19 38.2	1.124	2.088	7.1	18.7
1 22	8 25.85	+20 23.9	1.095	2.078	1.4	18.3
2 1	8 15.58	+21 8.1	1.092	2.069	4.8	18.5
2 11	8 6.39	+21 44.4	1.114	2.061	10.5	18.8
2 21	7 59.77	+22 9.2	1.158	2.053	15.6	19.0
3 2	7 56.65	+22 21.1	1.221	2.047	20.0	19.3

131491 2001 SW_{178} 1 24.4 85°.16 2°.9/25.8 18

12 23	8 50.49	+10 6.6	1.455	2.282	16.8	20.1
1 2	8 44.55	+10 26.8	1.398	2.299	12.6	19.9
1 12	8 36.03	+11 4.6	1.364	2.316	7.9	19.7
1 22	8 25.91	+11 56.3	1.355	2.333	3.6	19.4
2 1	8 15.53	+12 56.1	1.374	2.349	4.4	19.5
2 11	8 6.34	+13 57.3	1.420	2.366	8.8	19.8
2 21	7 59.42	+14 54.2	1.491	2.382	13.1	20.1
3 2	7 55.47	+15 43.2	1.584	2.398	16.7	20.4

34205 Mizerak 1 24.4 122°.73 2°.5/23.2 18

12 23	8 54.19	+24 6.1	1.723	2.563	14.0	19.2
1 2	8 47.06	+24 43.1	1.664	2.577	10.1	19.0
1 12	8 37.39	+25 21.7	1.630	2.590	5.9	18.8
1 22	8 26.17	+25 55.7	1.623	2.603	2.5	18.6
2 1	8 14.72	+26 19.9	1.646	2.616	4.8	18.8
2 11	8 4.46	+26 31.2	1.698	2.628	8.9	19.1
2 21	7 56.47	+26 29.8	1.775	2.639	12.7	19.3
3 2	7 51.40	+26 17.4	1.873	2.650	15.9	19.5

152641 Fredreed 1 24.4 124°.41 1°.6/25.3 18 R

12 23	8 49.85	+13 3.5	2.141	2.955	12.6	21.1
1 2	8 43.43	+13 17.5	2.076	2.972	9.3	20.9
1 12	8 35.14	+13 41.0	2.036	2.989	5.6	20.7
1 22	8 25.72	+14 11.5	2.025	3.004	2.1	20.5
2 1	8 16.12	+14 45.3	2.044	3.020	3.2	20.6
2 11	8 7.32	+15 19.1	2.093	3.034	6.8	20.8
2 21	8 0.16	+15 50.0	2.170	3.048	10.2	21.1
3 2	7 55.19	+16 16.0	2.271	3.061	13.0	21.3

243431 2009 DK_{32} 1 24.4 180°.48 2°.2/25.6 18

12 23	8 48.60	+11 20.6	1.796	2.617	14.4	20.6
1 2	8 43.00	+11 41.4	1.719	2.618	10.8	20.3
1 12	8 35.12	+12 16.3	1.665	2.618	6.7	20.1
1 22	8 25.75	+13 2.3	1.639	2.618	2.8	19.9
2 1	8 15.96	+13 54.9	1.642	2.618	3.8	19.9
2 11	8 6.98	+14 48.9	1.674	2.617	7.9	20.2
2 21	7 59.81	+15 39.6	1.731	2.617	11.9	20.4
3 2	7 55.19	+16 23.8	1.812	2.616	15.3	20.6

200588 2001 QC_{293} 1 24.4 84°.63 7°.1/26.4 18

12 23	8 59.33	+ 5 28.0	1.524	2.316	17.8	19.7
1 2	8 50.58	+ 3 57.7	1.472	2.344	14.1	19.5
1 12	8 39.27	+ 2 44.6	1.445	2.371	10.2	19.3
1 22	8 26.52	+ 1 51.7	1.444	2.398	7.4	19.2
2 1	8 13.76	+ 1 20.0	1.472	2.424	7.6	19.3
2 11	8 2.45	+ 1 7.4	1.527	2.450	10.3	19.5
2 21	7 53.63	+ 1 9.7	1.608	2.476	13.7	19.8
3 2	7 47.90	+ 1 21.7	1.710	2.500	16.6	20.0

290611 2005 US_{215} 1 24.4 112°.70 3°.7/22.3 18

12 23	8 50.09	+27 16.7	1.881	2.725	12.8	20.3
1 2	8 44.12	+28 12.0	1.815	2.729	9.4	20.1
1 12	8 35.77	+29 7.1	1.775	2.732	5.8	19.9
1 22	8 25.87	+29 55.4	1.762	2.736	3.7	19.8
2 1	8 15.63	+30 31.0	1.779	2.739	5.7	19.9
2 11	8 6.34	+30 50.7	1.823	2.743	9.1	20.1
2 21	7 59.06	+30 54.3	1.892	2.746	12.5	20.3
3 2	7 54.49	+30 43.8	1.983	2.750	15.5	20.5

353950 1999 RP_{30} 1 24.4 174°.32 7°.8/20.9 18

12 23	9 3.39	+42 18.5	2.131	2.939	12.9	20.6
1 2	8 53.73	+43 2.0	2.068	2.942	10.5	20.5
1 12	8 41.18	+43 31.1	2.030	2.945	8.5	20.4
1 22	8 26.91	+43 37.9	2.020	2.947	7.8	20.3
2 1	8 12.48	+43 18.1	2.039	2.948	8.9	20.4
2 11	7 59.53	+42 32.3	2.085	2.949	11.0	20.5
2 21	7 49.27	+41 25.4	2.156	2.948	13.5	20.7
3 2	7 42.35	+40 4.0	2.249	2.947	15.7	20.9

161107 2002 QR_{16} 1 24.4 114°.19 4°.8/27.7 18

12 23	8 45.11	+ 2 40.8	2.301	3.081	12.9	20.2
1 2	8 39.98	+ 2 36.4	2.225	3.089	10.3	20.0
1 12	8 33.19	+ 2 48.1	2.174	3.096	7.5	19.9
1 22	8 25.36	+ 3 15.5	2.149	3.103	5.3	19.8
2 1	8 17.29	+ 3 56.5	2.153	3.111	5.1	19.8
2 11	8 9.83	+ 4 47.3	2.186	3.118	7.1	19.9
2 21	8 3.72	+ 5 43.5	2.246	3.124	9.8	20.1
3 2	7 59.50	+ 6 40.6	2.331	3.131	12.4	20.3

194471 2001 WF_{19} 1 24.4 4°.25 1°.1/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 46.50	+16 32.5	1.033	1.901	19.0	19.4
1 2	8 42.62	+16 32.0	0.975	1.900	14.0	19.1
1 12	8 35.35	+16 44.8	0.935	1.900	8.2	18.8
1 22	8 25.83	+17 6.7	0.918	1.901	2.1	18.5
2 1	8 15.81	+17 32.0	0.926	1.904	4.8	18.6
2 11	8 7.24	+17 54.8	0.956	1.909	10.9	19.0
2 21	8 1.58	+18 11.2	1.007	1.915	16.3	19.3
3 2	7 59.68	+18 19.2	1.077	1.922	20.7	19.6

298702 2004 EL_{55} 1 24.4 300°.11 3°.3/22.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.28	+29 19.5	2.157	2.993	11.7	20.1
1 2	8 44.81	+29 29.7	2.070	2.979	8.7	19.8
1 12	8 36.11	+29 36.1	2.008	2.964	5.5	19.6
1 22	8 25.95	+29 34.4	1.975	2.949	3.3	19.5
2 1	8 15.41	+29 21.0	1.972	2.935	5.0	19.5
2 11	8 5.71	+28 54.8	1.998	2.920	8.3	19.7
2 21	7 57.82	+28 16.9	2.050	2.906	11.6	19.9
3 2	7 52.45	+27 29.9	2.124	2.892	14.5	20.1

166848 2002 VX_{140} 1 24.4 112°.84 4°.3/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.76	+ 3 9.1	2.479	3.258	12.1	20.5
1 2	8 39.60	+ 3 12.1	2.405	3.269	9.6	20.3
1 12	8 32.93	+ 3 30.0	2.356	3.280	6.9	20.2
1 22	8 25.31	+ 4 2.0	2.335	3.292	4.8	20.0
2 1	8 17.49	+ 4 45.9	2.343	3.302	4.6	20.0
2 11	8 10.26	+ 5 38.0	2.381	3.313	6.6	20.2
2 21	8 4.28	+ 6 34.1	2.446	3.324	9.2	20.4
3 2	8 0.06	+ 7 30.4	2.536	3.334	11.6	20.5

256113 2006 UH_{290} 1 24.4 328°.03 10°.6/18.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.68	+41 54.7	1.531	2.370	15.5	20.3
1 2	8 47.91	+43 35.9	1.471	2.361	12.9	20.2
1 12	8 38.46	+45 3.7	1.434	2.352	11.0	20.0
1 22	8 26.47	+46 5.8	1.421	2.344	10.7	20.0
2 1	8 13.77	+46 33.1	1.433	2.336	12.3	20.1
2 11	8 2.51	+46 23.5	1.467	2.329	14.9	20.2
2 21	7 54.36	+45 41.5	1.522	2.322	17.8	20.4
3 2	7 50.26	+44 34.8	1.593	2.316	20.3	20.5

446851 2001 TK_{109} 1 24.4 91°.42 5°.2/26.8 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.34	+ 5 56.5	1.577	2.379	16.9	21.8
1 2	8 46.29	+ 5 36.8	1.525	2.406	13.1	21.6
1 12	8 36.87	+ 5 35.9	1.496	2.433	9.0	21.4
1 22	8 26.08	+ 5 52.8	1.494	2.459	5.7	21.3
2 1	8 15.19	+ 6 24.4	1.519	2.485	5.8	21.3
2 11	8 5.54	+ 7 5.6	1.572	2.509	8.9	21.6
2 21	7 58.09	+ 7 51.0	1.651	2.534	12.5	21.9
3 2	7 53.44	+ 8 35.7	1.752	2.557	15.7	22.1

334553 2002 SV_{47} 1 24.4 111°.52 4°.2/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.14	+ 4 24.2	2.351	3.137	12.5	20.9
1 2	8 39.96	+ 4 26.4	2.277	3.147	9.8	20.7
1 12	8 33.17	+ 4 43.6	2.227	3.156	6.9	20.6
1 22	8 25.37	+ 5 14.6	2.205	3.166	4.6	20.4
2 1	8 17.35	+ 5 57.2	2.212	3.175	4.5	20.4
2 11	8 9.94	+ 6 47.5	2.249	3.184	6.7	20.6
2 21	8 3.86	+ 7 41.3	2.313	3.193	9.5	20.8
3 2	7 59.64	+ 8 34.8	2.401	3.201	12.1	21.0

406565 2007 YM_{66} 1 24.4 34°.31 1°.1/23.9 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.65	+20 26.9	1.396	2.249	15.9	21.3
1 2	8 44.20	+20 51.6	1.338	2.258	11.5	21.1
1 12	8 35.94	+21 22.8	1.303	2.266	6.5	20.8
1 22	8 25.93	+21 54.8	1.292	2.275	1.5	20.5
2 1	8 15.62	+22 21.7	1.310	2.285	4.5	20.8
2 11	8 6.58	+22 39.6	1.353	2.295	9.5	21.1
2 21	7 59.98	+22 46.8	1.420	2.306	13.9	21.4
3 2	7 56.55	+22 43.7	1.507	2.317	17.6	21.6

5661 Hildebrand 1 24.4 154°.28 0°.9/23.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 43.53	+23 4.3	3.995	4.818	7.0	17.9
1 2	8 38.28	+23 15.8	3.919	4.825	5.1	17.8
1 12	8 32.01	+23 27.9	3.872	4.831	2.9	17.7
1 22	8 25.14	+23 38.8	3.855	4.837	0.9	17.5
2 1	8 18.15	+23 46.8	3.871	4.843	2.2	17.6
2 11	8 11.56	+23 50.7	3.919	4.848	4.4	17.8
2 21	8 5.83	+23 50.0	3.995	4.854	6.4	17.9
3 2	8 1.30	+23 44.6	4.098	4.859	8.2	18.1

86663 2000 FS_{6} 1 24.4 233°.92 2°.4/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.43	+12 13.0	1.609	2.436	15.5	20.4
1 2	8 44.65	+12 20.6	1.527	2.429	11.7	20.2
1 12	8 36.25	+12 42.2	1.467	2.421	7.3	19.9
1 22	8 26.04	+13 15.4	1.434	2.413	3.0	19.6
2 1	8 15.25	+13 55.7	1.429	2.405	4.2	19.7
2 11	8 5.31	+14 38.2	1.452	2.396	8.8	19.9
2 21	7 57.42	+15 18.3	1.500	2.387	13.2	20.1
3 2	7 52.44	+15 52.8	1.570	2.378	17.1	20.4

163446 2002 RY_{104} 1 24.4 75°.69 4°.2/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 45.99	+ 4 43.4	2.204	2.994	13.1	20.2
1 2	8 40.57	+ 4 44.2	2.143	3.016	10.2	20.0
1 12	8 33.50	+ 5 0.4	2.107	3.038	7.2	19.9
1 22	8 25.45	+ 5 30.6	2.098	3.060	4.7	19.7
2 1	8 17.26	+ 6 12.2	2.118	3.081	4.6	19.8
2 11	8 9.81	+ 7 1.2	2.167	3.103	6.9	20.0
2 21	8 3.81	+ 7 53.2	2.244	3.124	9.7	20.2
3 2	7 59.77	+ 8 44.2	2.344	3.146	12.3	20.4

343030 2009 BH_{132} 1 24.4 222°.46 2°.7/25.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.57	+10 15.8	2.606	3.408	11.0	20.7
1 2	8 40.94	+ 9 59.8	2.516	3.402	8.4	20.5
1 12	8 33.74	+ 9 52.6	2.452	3.395	5.5	20.3
1 22	8 25.51	+ 9 53.4	2.416	3.389	3.0	20.2
2 1	8 17.00	+10 0.8	2.412	3.382	3.4	20.2
2 11	8 9.01	+10 12.8	2.438	3.375	6.1	20.4
2 21	8 2.24	+10 27.3	2.491	3.368	9.1	20.5
3 2	7 57.23	+10 42.1	2.570	3.361	11.7	20.7

514756 2007 EK_{39} 1 24.4 231°.98 22°.1/ 8.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.14	−26 26.9	1.130	1.792	29.6	21.8
1 2	8 45.56	−27 36.2	1.060	1.786	27.9	21.6
1 12	8 37.32	−27 50.5	0.998	1.780	25.9	21.4
1 22	8 26.33	−26 55.7	0.949	1.773	23.9	21.3
2 1	8 14.25	−24 42.7	0.914	1.766	22.5	21.1
2 11	8 3.23	−21 14.6	0.897	1.758	22.1	21.1
2 21	7 55.08	−16 48.1	0.899	1.750	23.2	21.1
3 2	7 51.05	−11 49.2	0.921	1.741	25.4	21.2

130539 2000 QG_{213} 1 24.4 124°.81 4°.3/22.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.92	+28 36.2	1.619	2.463	14.5	20.2
1 2	8 47.89	+29 19.9	1.558	2.471	10.7	20.0
1 12	8 38.02	+30 1.0	1.522	2.478	6.7	19.8
1 22	8 26.37	+30 32.1	1.513	2.486	4.3	19.7
2 1	8 14.42	+30 47.2	1.532	2.493	6.4	19.8
2 11	8 3.77	+30 44.2	1.578	2.499	10.2	20.0
2 21	7 55.63	+30 24.5	1.649	2.506	13.9	20.3
3 2	7 50.72	+29 51.7	1.740	2.512	17.1	20.5

45661 2000 EX_{84} 1 24.4 113°.46 4°.2/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.47	+ 7 23.2	2.030	2.826	13.9	18.4
1 2	8 44.63	+ 6 57.6	1.967	2.845	10.7	18.2
1 12	8 35.85	+ 6 45.3	1.928	2.864	7.3	18.0
1 22	8 25.92	+ 6 45.9	1.917	2.883	4.6	17.9
2 1	8 15.84	+ 6 57.5	1.935	2.901	4.8	18.0
2 11	8 6.66	+ 7 17.3	1.983	2.918	7.5	18.2
2 21	7 59.20	+ 7 41.7	2.059	2.935	10.7	18.4
3 2	7 54.02	+ 8 7.5	2.157	2.951	13.5	18.6

425461 2010 EN_{92} 1 24.4 174°.22 2°.7/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.90	+ 8 25.3	2.445	3.247	11.6	21.4
1 2	8 39.82	+ 8 41.5	2.363	3.248	8.9	21.2
1 12	8 33.13	+ 9 9.9	2.306	3.249	5.8	21.0
1 22	8 25.41	+ 9 48.9	2.277	3.250	3.2	20.9
2 1	8 17.40	+10 35.5	2.279	3.250	3.4	20.9
2 11	8 9.94	+11 26.1	2.310	3.251	6.2	21.1
2 21	8 3.74	+12 16.9	2.369	3.251	9.3	21.3
3 2	7 59.36	+13 4.7	2.453	3.251	12.0	21.4

51705 2001 KA_{27} 1 24.4 139°.17 4°.4/21.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.04	+30 58.9	2.338	3.175	10.9	19.0
1 2	8 43.07	+32 2.3	2.274	3.180	8.1	18.9
1 12	8 35.08	+33 2.7	2.236	3.185	5.5	18.7
1 22	8 25.79	+33 54.2	2.227	3.190	4.4	18.6
2 1	8 16.20	+34 31.7	2.248	3.195	5.8	18.7
2 11	8 7.38	+34 52.9	2.297	3.199	8.5	18.9
2 21	8 0.22	+34 57.8	2.372	3.203	11.1	19.1
3 2	7 55.37	+34 48.5	2.469	3.208	13.5	19.3

270608 2002 NP_{74} 1 24.4 112°.26 3°.8/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.39	+ 5 58.6	2.255	3.050	12.7	20.5
1 2	8 40.23	+ 6 4.0	2.179	3.057	9.9	20.4
1 12	8 33.38	+ 6 24.0	2.129	3.064	6.8	20.2
1 22	8 25.45	+ 6 57.2	2.105	3.071	4.2	20.0
2 1	8 17.27	+ 7 41.0	2.111	3.078	4.2	20.0
2 11	8 9.73	+ 8 31.4	2.147	3.085	6.8	20.2
2 21	8 3.57	+ 9 24.3	2.209	3.092	9.8	20.4
3 2	7 59.35	+10 15.6	2.297	3.098	12.5	20.6

486172 2012 YB_{5} 1 24.4 322°.83 3°.6/23.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.23	+26 43.0	1.379	2.232	16.0	20.3
1 2	8 47.85	+27 6.3	1.311	2.229	11.8	20.0
1 12	8 38.21	+27 28.8	1.265	2.226	7.2	19.8
1 22	8 26.44	+27 43.1	1.244	2.223	3.7	19.6
2 1	8 14.18	+27 43.3	1.251	2.220	6.2	19.7
2 11	8 3.29	+27 27.2	1.284	2.217	10.9	20.0
2 21	7 55.19	+26 56.2	1.340	2.215	15.4	20.2
3 2	7 50.70	+26 13.9	1.415	2.212	19.2	20.5

301688 2010 FD_{88} 1 24.4 197°.31 2°.6/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 49.80	+10 43.1	1.784	2.601	14.6	21.2
1 2	8 43.93	+10 59.2	1.703	2.599	11.0	20.9
1 12	8 35.72	+11 29.9	1.646	2.597	7.0	20.7
1 22	8 25.94	+12 12.5	1.616	2.594	3.1	20.4
2 1	8 15.69	+13 2.9	1.616	2.591	3.9	20.5
2 11	8 6.23	+13 55.7	1.644	2.587	8.1	20.7
2 21	7 58.61	+14 46.3	1.698	2.582	12.1	20.9
3 2	7 53.59	+15 31.2	1.775	2.577	15.6	21.2

95103 2002 AP_{114} 1 24.4 85°.35 1°.6/23.6 18

12 23	8 52.85	+20 23.3	1.489	2.334	15.6	20.0
1 2	8 46.30	+21 12.6	1.439	2.355	11.2	19.7
1 12	8 37.05	+22 8.3	1.413	2.375	6.3	19.5
1 22	8 26.17	+23 3.3	1.413	2.396	1.8	19.3
2 1	8 15.12	+23 50.7	1.442	2.416	4.6	19.5
2 11	8 5.38	+24 25.9	1.498	2.436	9.3	19.8
2 21	7 58.09	+24 47.4	1.579	2.455	13.4	20.1
3 2	7 53.90	+24 56.1	1.681	2.474	16.8	20.4

250148 2002 RX_{182} 1 24.4 67°.47 8°.9/29.0 18

12 23	8 49.07	− 2 50.4	1.620	2.390	17.9	20.0
1 2	8 43.28	− 3 43.1	1.564	2.409	14.9	19.8
1 12	8 35.24	− 4 10.5	1.528	2.428	11.8	19.7
1 22	8 25.82	− 4 10.4	1.516	2.447	9.5	19.6
2 1	8 16.19	− 3 43.7	1.530	2.466	9.0	19.6
2 11	8 7.59	− 2 55.1	1.570	2.486	10.7	19.7
2 21	8 0.97	− 1 51.9	1.633	2.505	13.3	19.9
3 2	7 56.97	− 0 41.8	1.719	2.524	15.9	20.2

207609 2006 QA_{142} 1 24.4 115°.50 0°.2/24.5 18

12 23	8 47.51	+18 15.7	2.590	3.412	10.4	20.4
1 2	8 41.54	+18 19.5	2.520	3.424	7.5	20.2
1 12	8 34.02	+18 27.4	2.476	3.435	4.3	20.0
1 22	8 25.57	+18 37.1	2.463	3.446	0.9	19.8
2 1	8 16.97	+18 46.3	2.480	3.457	2.6	19.9
2 11	8 9.03	+18 53.1	2.528	3.467	5.9	20.2
2 21	8 2.44	+18 56.3	2.604	3.477	8.9	20.4
3 2	7 57.69	+18 55.4	2.705	3.487	11.4	20.6

282350 2003 BW_{72} 1 24.4 12°.40 1°.5/24.9 18

12 23	8 51.23	+16 50.1	2.122	2.944	12.4	19.5
1 2	8 44.52	+16 8.2	2.044	2.946	9.2	19.3
1 12	8 35.83	+15 30.2	1.991	2.947	5.5	19.1
1 22	8 25.94	+14 55.4	1.968	2.949	1.9	18.9
2 1	8 15.83	+14 23.1	1.976	2.951	3.3	19.0
2 11	8 6.56	+13 52.9	2.013	2.953	7.0	19.2
2 21	7 58.98	+13 24.4	2.078	2.956	10.5	19.4
3 2	7 53.69	+12 57.0	2.167	2.959	13.5	19.6

36207 1999 TB_{110} 1 24.4 253°.37 1°.2/24.9 17

12 23	8 48.87	+15 26.9	2.179	3.001	12.1	19.2
1 2	8 42.98	+15 24.6	2.085	2.987	9.0	19.0
1 12	8 35.08	+15 29.5	2.017	2.973	5.4	18.7
1 22	8 25.82	+15 39.4	1.977	2.958	1.7	18.5
2 1	8 16.12	+15 51.9	1.967	2.944	3.1	18.5
2 11	8 7.02	+16 4.3	1.988	2.929	7.0	18.7
2 21	7 59.45	+16 14.6	2.035	2.913	10.7	18.9
3 2	7 54.09	+16 21.4	2.106	2.898	13.8	19.1

131910 2002 BR_{15} 1 24.4 278°.89 2°.3/25.3 18

12 23	8 50.19	+13 8.9	1.625	2.454	15.2	20.0
1 2	8 44.66	+13 5.5	1.528	2.432	11.5	19.8
1 12	8 36.39	+13 14.3	1.454	2.409	7.2	19.4
1 22	8 26.13	+13 33.6	1.406	2.386	2.9	19.1
2 1	8 15.06	+13 59.9	1.386	2.362	4.2	19.2
2 11	8 4.67	+14 28.9	1.394	2.339	9.1	19.4
2 21	7 56.26	+14 56.8	1.427	2.315	13.8	19.6
3 2	7 50.79	+15 20.7	1.481	2.291	17.8	19.8

366567 2002 RB_{262} 1 24.4 19°.61 2°.3/25.3 18

12 23	8 48.47	+13 30.0	1.447	2.286	16.2	20.5
1 2	8 43.28	+13 24.4	1.380	2.290	12.1	20.2
1 12	8 35.44	+13 31.6	1.336	2.293	7.4	20.0
1 22	8 25.90	+13 49.2	1.317	2.297	2.9	19.7
2 1	8 15.98	+14 13.3	1.325	2.302	4.2	19.8
2 11	8 7.15	+14 39.5	1.360	2.307	8.9	20.1
2 21	8 0.55	+15 3.8	1.418	2.312	13.4	20.4
3 2	7 56.93	+15 23.6	1.498	2.319	17.2	20.6

409849 2006 SM_{78} 1 24.4 126°.07 1°.1/24.9 18

12 23	8 50.04	+15 12.5	1.864	2.691	13.7	21.8
1 2	8 43.90	+15 25.3	1.795	2.700	10.0	21.6
1 12	8 35.59	+15 47.3	1.751	2.708	5.9	21.3
1 22	8 25.91	+16 15.3	1.734	2.716	1.7	21.1
2 1	8 15.95	+16 45.4	1.748	2.724	3.4	21.2
2 11	8 6.89	+17 13.7	1.790	2.732	7.6	21.5
2 21	7 59.68	+17 37.6	1.858	2.739	11.4	21.7
3 2	7 54.97	+17 55.5	1.949	2.746	14.6	22.0

393633 2004 KM_{7} 1 24.4 186°.83 0°.5/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 52.69	+18 33.4	1.869	2.698	13.5	23.2
1 2	8 46.00	+19 6.3	1.791	2.699	9.9	23.0
1 12	8 36.89	+19 46.5	1.738	2.698	5.6	22.7
1 22	8 26.19	+20 29.2	1.713	2.696	1.1	22.4
2 1	8 15.04	+21 9.3	1.719	2.694	3.7	22.6
2 11	8 4.75	+21 42.5	1.754	2.691	8.1	22.8
2 21	7 56.40	+22 6.6	1.815	2.687	12.1	23.1
3 2	7 50.72	+22 21.0	1.899	2.682	15.5	23.3

37003 2000 TF_{35} 1 24.4 37°.15 1°.1/23.8 18

12 23	8 47.99	+20 1.2	1.750	2.594	13.6	19.4
1 2	8 42.65	+20 37.7	1.683	2.598	9.9	19.1
1 12	8 34.97	+21 20.7	1.639	2.602	5.6	18.9
1 22	8 25.80	+22 4.9	1.623	2.606	1.4	18.6
2 1	8 16.29	+22 44.9	1.636	2.611	4.0	18.8
2 11	8 7.70	+23 16.6	1.677	2.616	8.3	19.1
2 21	8 1.07	+23 37.8	1.743	2.621	12.2	19.3
3 2	7 57.07	+23 48.2	1.831	2.626	15.5	19.6

47170 1999 TE_{33} 1 24.4 321°.76 1°.7/23.8 18 R

12 23	8 52.06	+21 32.6	1.250	2.107	17.1	19.0
1 2	8 46.49	+21 57.4	1.181	2.102	12.5	18.7
1 12	8 37.56	+22 28.8	1.133	2.098	7.2	18.4
1 22	8 26.36	+23 0.0	1.111	2.093	2.0	18.1
2 1	8 14.54	+23 24.1	1.114	2.089	5.3	18.3
2 11	8 4.03	+23 36.5	1.143	2.086	10.8	18.6
2 21	7 56.32	+23 35.9	1.194	2.082	15.9	18.8
3 2	7 52.32	+23 23.6	1.265	2.079	20.1	19.1

148717 2001 TB_{50} 1 24.4 52°.30 7°.7/20.7 18

12 23	8 53.86	+35 59.9	1.548	2.394	15.0	19.0
1 2	8 47.35	+37 15.3	1.505	2.410	11.6	18.8
1 12	8 37.77	+38 20.3	1.485	2.426	8.7	18.7
1 22	8 26.35	+39 5.3	1.492	2.442	7.7	18.7
2 1	8 14.74	+39 23.9	1.524	2.458	9.3	18.8
2 11	8 4.67	+39 15.2	1.582	2.475	12.2	19.0
2 21	7 57.39	+38 43.0	1.662	2.492	15.2	19.2
3 2	7 53.55	+37 53.1	1.761	2.509	17.8	19.5

301980 2000 JO_{8} 1 24.4 193°.48 10°.6/30.2 18

12 23	8 50.21	−10 48.5	2.082	2.782	16.5	21.2
1 2	8 44.00	−11 50.7	1.998	2.781	14.5	21.0
1 12	8 35.69	−12 28.5	1.935	2.778	12.5	20.9
1 22	8 25.97	−12 37.9	1.895	2.775	11.0	20.8
2 1	8 15.77	−12 17.5	1.880	2.770	10.6	20.8
2 11	8 6.19	−11 29.8	1.891	2.765	11.5	20.8
2 21	7 58.19	−10 20.5	1.927	2.759	13.3	20.9
3 2	7 52.47	− 8 57.3	1.985	2.753	15.4	21.0

180692 2004 HH_{24} 1 24.4 40°.26 9°.6/19.3 18

12 23	8 55.06	+40 59.6	1.601	2.438	15.0	19.6
1 2	8 48.53	+42 30.0	1.552	2.443	12.3	19.4
1 12	8 38.62	+43 46.4	1.527	2.449	10.2	19.3
1 22	8 26.54	+44 37.9	1.527	2.455	9.7	19.3
2 1	8 14.08	+44 57.2	1.552	2.461	11.1	19.4
2 11	8 3.16	+44 43.7	1.600	2.467	13.6	19.6
2 21	7 55.22	+44 2.0	1.670	2.474	16.3	19.8
3 2	7 51.02	+42 59.3	1.759	2.481	18.7	20.0

93668 2000 UA_{110} 1 24.4 352°.16 11°.5/15.4 18

12 23	8 48.85	+40 31.7	1.432	2.284	15.6	17.1
1 2	8 44.74	+43 21.4	1.381	2.277	13.1	17.0
1 12	8 36.91	+46 0.5	1.355	2.272	11.6	16.9
1 22	8 26.28	+48 13.0	1.353	2.267	11.9	16.9
2 1	8 14.64	+49 46.2	1.375	2.264	13.9	17.0
2 11	8 4.19	+50 35.8	1.419	2.261	16.5	17.1
2 21	7 56.83	+50 45.0	1.482	2.260	19.2	17.3
3 2	7 53.69	+50 21.4	1.560	2.260	21.5	17.5

393666 2004 RU_{60} 1 24.4 136°.52 1°.7/23.5 18

12 23	8 53.69	+21 52.7	1.937	2.768	13.0	21.9
1 2	8 46.52	+22 38.3	1.875	2.784	9.4	21.7
1 12	8 37.07	+23 27.6	1.839	2.799	5.4	21.5
1 22	8 26.22	+24 14.9	1.832	2.813	1.8	21.3
2 1	8 15.12	+24 54.7	1.855	2.826	4.1	21.5
2 11	8 5.02	+25 23.6	1.908	2.839	8.1	21.7
2 21	7 56.90	+25 40.5	1.988	2.851	11.7	22.0
3 2	7 51.42	+25 46.2	2.090	2.861	14.6	22.2

462943 2011 BQ_{130} 1 24.4 353°.89 2°.2/25.6 18

12 23	8 46.63	+11 46.6	1.838	2.662	13.9	21.7
1 2	8 41.55	+12 0.4	1.761	2.662	10.5	21.5
1 12	8 34.33	+12 27.1	1.708	2.661	6.5	21.3
1 22	8 25.70	+13 4.3	1.682	2.661	2.7	21.0
2 1	8 16.69	+13 47.9	1.685	2.660	3.7	21.1
2 11	8 8.44	+14 33.3	1.716	2.660	7.6	21.3
2 21	8 1.92	+15 16.4	1.773	2.660	11.5	21.6
3 2	7 57.82	+15 54.1	1.852	2.660	14.9	21.8

141863 2002 PJ_{24} 1 24.4 247°.46 0°.7/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 49.75	+15 50.6	1.846	2.675	13.7	21.1
1 2	8 43.98	+16 9.8	1.756	2.663	10.1	20.8
1 12	8 35.82	+16 38.8	1.692	2.650	6.0	20.5
1 22	8 26.01	+17 14.1	1.654	2.637	1.5	20.2
2 1	8 15.64	+17 51.3	1.646	2.623	3.5	20.3
2 11	8 5.98	+18 26.0	1.667	2.609	8.1	20.6
2 21	7 58.12	+18 55.2	1.714	2.595	12.2	20.8
3 2	7 52.87	+19 16.9	1.784	2.581	15.8	21.0

424655 2008 QB_{33} 1 24.4 249°.46 3°.1/22.9 18

12 23	8 51.58	+27 57.8	2.048	2.886	12.2	20.8
1 2	8 45.03	+28 15.6	1.975	2.886	8.9	20.6
1 12	8 36.25	+28 31.1	1.928	2.885	5.5	20.4
1 22	8 26.07	+28 39.4	1.909	2.885	3.1	20.2
2 1	8 15.62	+28 36.8	1.920	2.884	4.9	20.3
2 11	8 6.12	+28 22.0	1.959	2.884	8.3	20.5
2 21	7 58.52	+27 55.7	2.024	2.883	11.6	20.7
3 2	7 53.48	+27 20.2	2.112	2.883	14.5	20.9

127716 2003 ES_{37} 1 24.4 235°.57 0°.8/24.8 18

12 23	8 48.14	+15 37.4	1.988	2.816	12.9	20.4
1 2	8 42.60	+15 56.6	1.904	2.810	9.5	20.2
1 12	8 34.92	+16 24.8	1.846	2.804	5.6	19.9
1 22	8 25.83	+16 58.9	1.815	2.798	1.5	19.6
2 1	8 16.32	+17 34.9	1.814	2.791	3.2	19.7
2 11	8 7.52	+18 8.8	1.842	2.785	7.4	20.0
2 21	8 0.37	+18 37.7	1.897	2.778	11.2	20.2
3 2	7 55.59	+18 59.9	1.975	2.771	14.5	20.4

457112 2008 FC_{13} 1 24.4 256°.33 1°.9/25.4 16

12 23	8 47.74	+12 28.4	1.889	2.712	13.7	22.3
1 2	8 42.42	+12 44.7	1.802	2.703	10.3	22.1
1 12	8 34.88	+13 13.4	1.739	2.693	6.3	21.8
1 22	8 25.84	+13 52.0	1.703	2.683	2.5	21.6
2 1	8 16.29	+14 36.5	1.696	2.673	3.6	21.6
2 11	8 7.43	+15 22.2	1.719	2.662	7.7	21.9
2 21	8 0.25	+16 5.0	1.767	2.652	11.7	22.1
3 2	7 55.51	+16 42.1	1.838	2.641	15.1	22.3

214099 2004 NN_{17} 1 24.4 147°.95 1°.2/23.3 18

12 23	8 44.70	+21 7.6	2.974	3.802	9.1	20.4
1 2	8 39.53	+22 5.7	2.899	3.808	6.5	20.2
1 12	8 32.93	+23 7.5	2.853	3.813	3.7	20.0
1 22	8 25.42	+24 9.2	2.837	3.819	1.3	19.9
2 1	8 17.66	+25 6.7	2.854	3.824	3.0	20.0
2 11	8 10.37	+25 57.0	2.901	3.829	5.8	20.2
2 21	8 4.18	+26 38.1	2.977	3.834	8.4	20.4
3 2	7 59.60	+27 9.4	3.077	3.838	10.6	20.5

309258 2007 RX_{68} 1 24.4 133°.49 3°.7/22.6 18

12 23	8 54.53	+27 33.5	1.758	2.598	13.7	20.8
1 2	8 47.43	+28 16.9	1.696	2.608	10.1	20.6
1 12	8 37.71	+28 58.7	1.660	2.617	6.2	20.4
1 22	8 26.37	+29 32.3	1.652	2.626	3.8	20.2
2 1	8 14.76	+29 52.0	1.672	2.635	5.7	20.4
2 11	8 4.33	+29 55.5	1.721	2.643	9.5	20.6
2 21	7 56.19	+29 43.8	1.794	2.650	13.0	20.8
3 2	7 51.04	+29 19.5	1.889	2.657	16.1	21.1

363862 2005 RF_{23} 1 24.4 91°.79 3°.9/26.8 18

12 23	8 50.57	+ 6 6.2	2.141	2.929	13.5	21.3
1 2	8 43.82	+ 6 4.4	2.088	2.963	10.4	21.1
1 12	8 35.34	+ 6 16.9	2.061	2.995	7.1	21.0
1 22	8 25.88	+ 6 42.3	2.061	3.027	4.4	20.9
2 1	8 16.36	+ 7 17.8	2.092	3.058	4.4	20.9
2 11	8 7.74	+ 7 59.4	2.152	3.088	7.0	21.1
2 21	8 0.76	+ 8 43.1	2.241	3.117	9.9	21.4
3 2	7 55.90	+ 9 25.5	2.353	3.146	12.6	21.6

293772 2007 RX_{103} 1 24.4 140°.86 1°.2/23.7 18

12 23	8 52.82	+20 59.7	1.997	2.828	12.7	21.9
1 2	8 45.85	+21 34.2	1.932	2.841	9.2	21.7
1 12	8 36.68	+22 12.8	1.893	2.853	5.2	21.5
1 22	8 26.17	+22 50.5	1.883	2.865	1.4	21.3
2 1	8 15.41	+23 22.8	1.903	2.876	3.8	21.4
2 11	8 5.59	+23 46.3	1.953	2.886	7.7	21.7
2 21	7 57.66	+23 59.9	2.030	2.896	11.3	21.9
3 2	7 52.25	+24 3.9	2.129	2.905	14.3	22.2

256178 2006 VD_{69} 1 24.4 43°.44 6°.9/27.3 18

12 23	8 49.01	+ 4 1.4	1.500	2.307	17.4	19.4
1 2	8 43.44	+ 3 8.9	1.441	2.319	13.9	19.2
1 12	8 35.44	+ 2 36.6	1.403	2.332	10.2	19.0
1 22	8 25.93	+ 2 25.8	1.390	2.346	7.3	18.9
2 1	8 16.17	+ 2 35.5	1.402	2.360	7.3	18.9
2 11	8 7.49	+ 3 1.9	1.441	2.375	9.9	19.1
2 21	8 0.94	+ 3 39.2	1.504	2.390	13.3	19.4
3 2	7 57.17	+ 4 21.2	1.588	2.405	16.5	19.6

375029 2007 HP_6 1 24.4 71°.81 3°.1/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 46.74	+ 9 21.9	1.898	2.713	13.9	21.5
1 2	8 41.52	+ 9 28.1	1.825	2.718	10.6	21.2
1 12	8 34.27	+ 9 48.5	1.775	2.723	6.9	21.0
1 22	8 25.70	+10 21.2	1.753	2.727	3.6	20.8
2 1	8 16.82	+11 2.9	1.759	2.732	4.0	20.9
2 11	8 8.72	+11 48.9	1.794	2.737	7.5	21.1
2 21	8 2.28	+12 35.0	1.855	2.742	11.1	21.3
3 2	7 58.16	+13 17.6	1.939	2.747	14.3	21.5

4780 Polina 1 24.4 261°.70 1°.0/23.9 18

12 23	8 50.83	+18 25.9	1.367	2.216	16.4	17.4
1 2	8 45.45	+19 15.0	1.292	2.210	12.0	17.1
1 12	8 36.95	+20 16.2	1.240	2.203	6.9	16.8
1 22	8 26.29	+21 22.5	1.214	2.197	1.5	16.4
2 1	8 14.92	+22 25.6	1.214	2.190	4.8	16.6
2 11	8 4.59	+23 18.2	1.241	2.183	10.3	16.9
2 21	7 56.75	+23 56.6	1.292	2.176	15.2	17.2
3 2	7 52.35	+24 19.9	1.362	2.169	19.3	17.4

457113 2008 FH_{13} 1 24.4 275°.12 3°.6/26.3 18

12 23	8 46.95	+ 8 22.0	1.797	2.612	14.6	21.9
1 2	8 41.90	+ 8 27.8	1.712	2.604	11.3	21.6
1 12	8 34.61	+ 8 49.8	1.651	2.596	7.5	21.4
1 22	8 25.80	+ 9 26.5	1.616	2.589	4.1	21.2
2 1	8 16.49	+10 14.6	1.609	2.581	4.5	21.2
2 11	8 7.89	+11 8.9	1.630	2.573	8.1	21.4
2 21	8 1.02	+12 4.4	1.677	2.566	12.0	21.6
3 2	7 56.63	+12 56.6	1.746	2.558	15.5	21.8

129473 1993 TK 1 24.4 120°.08 2°.2/23.4 18

12 23	8 55.36	+23 49.2	1.843	2.677	13.5	20.9
1 2	8 47.75	+24 22.9	1.787	2.697	9.7	20.8
1 12	8 37.77	+24 57.8	1.756	2.716	5.6	20.5
1 22	8 26.38	+25 28.3	1.754	2.735	2.3	20.4
2 1	8 14.84	+25 49.7	1.783	2.752	4.5	20.5
2 11	8 4.48	+25 59.4	1.840	2.769	8.4	20.8
2 21	7 56.29	+25 57.6	1.923	2.786	12.0	21.1
3 2	7 50.89	+25 45.8	2.029	2.801	15.0	21.3

129976 1999 UJ_{36} 1 24.4 210°.40 1°.5/25.3 18

12 23	8 50.52	+13 13.4	2.273	3.084	12.1	22.0
1 2	8 44.11	+13 27.4	2.180	3.075	9.0	21.7
1 12	8 35.73	+13 50.8	2.114	3.066	5.5	21.5
1 22	8 26.01	+14 21.3	2.076	3.056	2.0	21.3
2 1	8 15.86	+14 55.7	2.070	3.046	3.1	21.3
2 11	8 6.29	+15 30.4	2.094	3.034	6.8	21.5
2 21	7 58.19	+16 2.6	2.146	3.021	10.4	21.7
3 2	7 52.25	+16 30.1	2.223	3.008	13.4	21.9

129792 1999 JR_{110} 1 24.4 238°.27 1°.6/23.6 18

12 23	8 51.96	+21 40.5	1.865	2.701	13.3	21.0
1 2	8 45.68	+22 18.5	1.776	2.688	9.7	20.7
1 12	8 36.86	+23 2.0	1.713	2.674	5.6	20.5
1 22	8 26.26	+23 45.3	1.677	2.659	1.8	20.2
2 1	8 15.05	+24 22.8	1.671	2.644	4.3	20.3
2 11	8 4.58	+24 50.3	1.694	2.628	8.7	20.5
2 21	7 56.03	+25 6.0	1.743	2.611	12.7	20.7
3 2	7 50.25	+25 10.0	1.814	2.594	16.2	20.9

250653 2005 KG_{14} 1 24.4 131°.89 6°.0/28.4 18

12 23	8 48.03	− 0 26.8	2.153	2.917	14.2	20.9
1 2	8 42.18	− 0 32.3	2.082	2.930	11.5	20.7
1 12	8 34.53	− 0 18.3	2.034	2.944	8.7	20.6
1 22	8 25.76	+ 0 15.0	2.012	2.956	6.5	20.5
2 1	8 16.74	+ 1 5.5	2.019	2.968	6.1	20.5
2 11	8 8.43	+ 2 8.6	2.054	2.980	7.9	20.6
2 21	8 1.63	+ 3 18.7	2.117	2.990	10.6	20.8
3 2	7 56.90	+ 4 30.4	2.205	3.001	13.2	21.0

279075 2008 WU_{79} 1 24.4 92°.46 2°.8/22.5 18

12 23	8 48.16	+25 8.0	2.205	3.044	11.4	20.5
1 2	8 42.40	+26 9.7	2.146	3.058	8.2	20.4
1 12	8 34.70	+27 12.7	2.114	3.073	4.9	20.2
1 22	8 25.79	+28 11.2	2.111	3.087	2.8	20.1
2 1	8 16.64	+29 0.0	2.138	3.101	4.6	20.2
2 11	8 8.29	+29 35.8	2.194	3.115	7.7	20.4
2 21	8 1.59	+29 57.9	2.276	3.129	10.8	20.6
3 2	7 57.13	+30 6.9	2.381	3.142	13.3	20.8

95091 2002 AM_{99} 1 24.4 223°.89 1°.7/23.3 18

12 23	8 47.74	+20 30.5	2.008	2.846	12.4	19.8
1 2	8 42.39	+21 35.8	1.930	2.842	9.0	19.6
1 12	8 34.85	+22 48.1	1.877	2.839	5.1	19.4
1 22	8 25.85	+24 1.6	1.854	2.835	1.7	19.1
2 1	8 16.38	+25 9.9	1.860	2.832	4.1	19.3
2 11	8 7.61	+26 7.7	1.896	2.828	8.0	19.5
2 21	8 0.52	+26 52.2	1.958	2.824	11.7	19.7
3 2	7 55.84	+27 22.8	2.042	2.820	14.7	19.9

82729 2001 PD_{56} 1 24.4 41°.20 4°.3/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 44.66	+ 4 46.5	1.799	2.604	15.0	18.5
1 2	8 39.97	+ 5 10.2	1.742	2.625	11.6	18.3
1 12	8 33.33	+ 5 53.3	1.708	2.646	8.0	18.1
1 22	8 25.52	+ 6 53.3	1.701	2.668	4.9	18.0
2 1	8 17.53	+ 8 5.5	1.721	2.690	4.7	18.0
2 11	8 10.40	+ 9 23.4	1.770	2.713	7.6	18.3
2 21	8 4.98	+10 41.0	1.845	2.736	11.0	18.5
3 2	8 1.81	+11 53.0	1.944	2.760	14.0	18.7

9913 Humperdinck 1 24.4 30°.58 4°.1/22.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.26	+24 33.5	1.118	1.986	17.8	17.7
1 2	8 45.30	+25 37.4	1.068	1.995	13.0	17.4
1 12	8 36.89	+26 45.2	1.041	2.005	7.7	17.1
1 22	8 26.26	+27 46.6	1.036	2.015	4.1	17.0
2 1	8 15.27	+28 32.0	1.057	2.026	6.9	17.2
2 11	8 5.89	+28 56.2	1.102	2.038	11.9	17.5
2 21	7 59.57	+28 59.4	1.169	2.051	16.5	17.8
3 2	7 57.07	+28 44.6	1.253	2.065	20.4	18.1

246919 1998 UB_{42} 1 24.4 63°.42 3°.2/26.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.66	+ 9 44.6	1.513	2.336	16.5	21.1
1 2	8 44.47	+ 9 56.0	1.468	2.365	12.4	20.9
1 12	8 35.92	+10 23.8	1.445	2.395	7.8	20.8
1 22	8 26.03	+11 4.8	1.448	2.425	3.8	20.6
2 1	8 16.07	+11 53.8	1.479	2.454	4.4	20.7
2 11	8 7.35	+12 45.1	1.538	2.483	8.3	21.0
2 21	8 0.84	+13 33.7	1.623	2.512	12.3	21.3
3 2	7 57.10	+14 16.1	1.729	2.541	15.6	21.6

452238 2015 SU_{18} 1 24.4 127°.70 0°.1/24.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.99	+16 3.3	1.676	2.505	14.8	21.8
1 2	8 46.26	+16 50.3	1.614	2.521	10.8	21.6
1 12	8 37.05	+17 47.8	1.577	2.537	6.2	21.4
1 22	8 26.28	+18 50.2	1.568	2.551	1.2	21.1
2 1	8 15.22	+19 51.1	1.589	2.565	3.7	21.3
2 11	8 5.22	+20 44.7	1.638	2.578	8.4	21.6
2 21	7 57.37	+21 27.9	1.714	2.591	12.5	21.9
3 2	7 52.36	+21 59.5	1.812	2.602	15.8	22.1

44565 1999 CF_{84} 1 24.4 289°.15 5°.4/21.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.39	+27 58.9	1.436	2.292	15.4	18.6
1 2	8 46.10	+29 17.8	1.357	2.275	11.5	18.4
1 12	8 37.49	+30 39.7	1.301	2.259	7.5	18.1
1 22	8 26.45	+31 54.1	1.271	2.242	5.4	17.9
2 1	8 14.51	+32 50.9	1.267	2.226	7.8	18.0
2 11	8 3.56	+33 23.8	1.290	2.209	12.2	18.2
2 21	7 55.20	+33 32.1	1.334	2.193	16.5	18.4
3 2	7 50.51	+33 19.0	1.397	2.176	20.2	18.6

458005 2009 WJ_{85} 1 24.4 144°.94 5°.5/20.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.85	+36 1.0	2.501	3.326	10.7	21.9
1 2	8 45.79	+37 6.2	2.444	3.337	8.3	21.7
1 12	8 36.64	+38 4.4	2.414	3.348	6.2	21.6
1 22	8 26.20	+38 49.4	2.412	3.358	5.5	21.6
2 1	8 15.49	+39 16.8	2.441	3.367	6.7	21.7
2 11	8 5.65	+39 25.1	2.497	3.376	8.9	21.8
2 21	7 57.59	+39 15.6	2.579	3.384	11.2	22.0
3 2	7 51.92	+38 51.3	2.683	3.392	13.2	22.2

389990 2012 TF_{290} 1 24.4 156°.95 4°.9/22.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.37	+29 24.2	1.561	2.404	15.0	20.9
1 2	8 49.88	+30 14.2	1.499	2.410	11.2	20.7
1 12	8 39.31	+31 1.0	1.460	2.415	7.2	20.5
1 22	8 26.75	+31 36.2	1.449	2.420	4.9	20.3
2 1	8 13.82	+31 53.1	1.465	2.424	6.9	20.5
2 11	8 2.27	+31 49.2	1.509	2.427	10.8	20.7
2 21	7 53.41	+31 26.8	1.577	2.430	14.6	20.9
3 2	7 48.02	+30 50.1	1.665	2.433	17.9	21.2

397139 2005 WH_{118} 1 24.4 47°.37 0°.2/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.53	+19 14.4	1.258	2.109	17.4	20.1
1 2	8 47.25	+19 6.4	1.200	2.118	12.7	19.9
1 12	8 37.83	+19 5.3	1.164	2.126	7.3	19.6
1 22	8 26.47	+19 6.8	1.152	2.135	1.5	19.2
2 1	8 14.81	+19 6.8	1.167	2.145	4.4	19.5
2 11	8 4.64	+19 2.4	1.208	2.154	10.0	19.8
2 21	7 57.26	+18 52.7	1.272	2.164	14.8	20.1
3 2	7 53.39	+18 37.7	1.357	2.174	18.8	20.4

118877 2000 TM_{44} 1 24.4 55°.54 5°.6/21.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.73	+30 48.8	1.689	2.538	13.8	19.5
1 2	8 44.88	+32 5.5	1.637	2.550	10.3	19.3
1 12	8 36.37	+33 18.6	1.610	2.562	7.0	19.1
1 22	8 26.17	+34 19.3	1.610	2.574	5.6	19.0
2 1	8 15.68	+35 0.8	1.637	2.586	7.4	19.2
2 11	8 6.35	+35 20.0	1.691	2.598	10.6	19.4
2 21	7 59.35	+35 18.3	1.768	2.611	13.8	19.6
3 2	7 55.36	+34 59.1	1.866	2.624	16.6	19.8

25371 Frangaley 1 24.4 137°.09 1°.9/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 49.38	+12 14.5	1.766	2.589	14.5	19.6
1 2	8 43.60	+12 35.8	1.695	2.596	10.8	19.4
1 12	8 35.55	+13 10.4	1.648	2.602	6.6	19.2
1 22	8 26.02	+13 55.0	1.627	2.607	2.5	18.9
2 1	8 16.14	+14 44.8	1.636	2.613	3.6	19.0
2 11	8 7.13	+15 34.7	1.674	2.618	7.9	19.3
2 21	8 0.01	+16 20.4	1.737	2.622	11.9	19.5
3 2	7 55.45	+16 59.3	1.823	2.627	15.2	19.7

465442 2008 RH_{123} 1 24.4 131°.45 0°.7/24.9 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.51	+15 36.3	2.194	3.018	12.0	22.1
1 2	8 41.89	+15 55.1	2.121	3.024	8.8	21.9
1 12	8 34.42	+16 21.8	2.073	3.030	5.1	21.7
1 22	8 25.79	+16 53.3	2.054	3.036	1.4	21.5
2 1	8 16.89	+17 26.2	2.065	3.042	2.9	21.6
2 11	8 8.71	+17 57.0	2.106	3.047	6.7	21.8
2 21	8 2.05	+18 23.4	2.174	3.052	10.1	22.1
3 2	7 57.49	+18 43.7	2.265	3.057	13.0	22.3

182530 2001 TT_{10} 1 24.4 197°.47 6°.1/20.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.21	+35 49.7	2.121	2.952	12.1	20.3
1 2	8 47.18	+36 50.3	2.053	2.949	9.4	20.1
1 12	8 37.63	+37 43.6	2.010	2.947	7.0	20.0
1 22	8 26.44	+38 22.4	1.995	2.944	6.1	19.9
2 1	8 14.86	+38 41.2	2.008	2.940	7.5	20.0
2 11	8 4.25	+38 38.2	2.049	2.936	10.1	20.1
2 21	7 55.74	+38 15.3	2.115	2.932	12.8	20.3
3 2	7 50.06	+37 36.5	2.202	2.927	15.3	20.5

87768 2000 SC_{92} 1 24.4 118°.77 5°.7/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.81	− 0 19.0	2.552	3.312	12.3	20.0
1 2	8 39.70	− 0 45.2	2.474	3.318	10.1	19.8
1 12	8 33.09	− 0 55.8	2.419	3.323	7.8	19.7
1 22	8 25.54	− 0 50.2	2.391	3.329	6.1	19.6
2 1	8 17.75	− 0 29.4	2.392	3.334	5.8	19.6
2 11	8 10.51	+ 0 4.1	2.421	3.340	7.3	19.7
2 21	8 4.46	+ 0 46.5	2.478	3.345	9.5	19.8
3 2	8 0.13	+ 1 33.8	2.558	3.350	11.7	20.0

501905 2014 WH_{467} 1 24.4 27°.93 0°.7/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.33	+21 12.6	1.968	2.805	12.6	20.5
1 2	8 43.39	+21 12.9	1.897	2.809	9.2	20.2
1 12	8 35.34	+21 15.9	1.851	2.812	5.2	20.0
1 22	8 25.99	+21 18.6	1.833	2.816	1.1	19.7
2 1	8 16.40	+21 18.1	1.845	2.821	3.4	19.9
2 11	8 7.70	+21 12.4	1.886	2.825	7.5	20.2
2 21	8 0.80	+21 0.8	1.952	2.830	11.1	20.4
3 2	7 56.33	+20 43.8	2.042	2.835	14.2	20.6

341342 2007 TQ_{44} 1 24.4 41°.18 4°.6/21.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.40	+31 16.8	2.059	2.901	12.0	20.5
1 2	8 43.54	+32 4.7	1.998	2.907	8.9	20.3
1 12	8 35.46	+32 48.5	1.962	2.913	6.0	20.2
1 22	8 26.02	+33 22.1	1.954	2.919	4.6	20.1
2 1	8 16.31	+33 41.0	1.974	2.926	6.1	20.2
2 11	8 7.56	+33 43.1	2.023	2.932	9.0	20.4
2 21	8 0.70	+33 29.3	2.096	2.939	11.9	20.6
3 2	7 56.38	+33 2.3	2.191	2.946	14.5	20.8

246044 2006 UG_{193} 1 24.4 148°.09 3°.2/22.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.90	+29 10.2	2.522	3.356	10.3	21.1
1 2	8 42.81	+29 43.3	2.453	3.360	7.6	20.9
1 12	8 34.91	+30 14.1	2.410	3.363	4.8	20.8
1 22	8 25.90	+30 38.0	2.396	3.367	3.2	20.7
2 1	8 16.67	+30 51.7	2.412	3.370	4.6	20.8
2 11	8 8.16	+30 53.4	2.457	3.373	7.3	20.9
2 21	8 1.17	+30 43.4	2.530	3.375	10.1	21.1
3 2	7 56.27	+30 23.1	2.625	3.378	12.4	21.3

220593 2004 LG_{23} 1 24.4 185°.28 1°.3/23.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.92	+22 12.3	2.407	3.236	10.9	21.5
1 2	8 43.60	+22 42.4	2.328	3.236	7.9	21.3
1 12	8 35.41	+23 15.2	2.275	3.235	4.5	21.1
1 22	8 26.02	+23 46.8	2.252	3.234	1.5	20.9
2 1	8 16.32	+24 13.4	2.261	3.232	3.4	21.1
2 11	8 7.29	+24 32.2	2.299	3.230	6.9	21.3
2 21	7 59.76	+24 42.3	2.365	3.227	10.0	21.5
3 2	7 54.33	+24 43.8	2.455	3.224	12.8	21.6

245018 2004 DL_{51} 1 24.4 283°.62 3°.7/22.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.16	+29 47.9	2.277	3.115	11.1	20.4
1 2	8 43.30	+30 23.2	2.195	3.104	8.3	20.2
1 12	8 35.34	+30 55.9	2.140	3.094	5.4	20.0
1 22	8 26.01	+31 21.0	2.113	3.083	3.7	19.9
2 1	8 16.32	+31 34.3	2.116	3.073	5.3	20.0
2 11	8 7.35	+31 33.6	2.147	3.062	8.3	20.2
2 21	8 0.06	+31 19.2	2.204	3.052	11.3	20.3
3 2	7 55.10	+30 53.0	2.284	3.041	13.9	20.5

518128 2016 CN_{288} 1 24.4 64°.89 2°.6/22.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 48.16	+24 20.8	1.964	2.807	12.4	20.8
1 2	8 42.65	+25 14.0	1.901	2.815	9.0	20.6
1 12	8 34.97	+26 9.5	1.863	2.823	5.3	20.4
1 22	8 25.94	+27 1.4	1.853	2.832	2.7	20.3
2 1	8 16.61	+27 44.1	1.873	2.840	4.7	20.4
2 11	8 8.15	+28 14.2	1.921	2.848	8.3	20.7
2 21	8 1.50	+28 30.5	1.995	2.857	11.6	20.9
3 2	7 57.32	+28 34.0	2.090	2.866	14.5	21.1

74385 1998 XH_{21} 1 24.4 19°.09 0°.1/24.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.31	+17 23.6	1.886	2.724	13.1	19.2
1 2	8 41.32	+17 47.5	1.816	2.727	9.5	19.0
1 12	8 34.23	+18 19.3	1.770	2.730	5.5	18.8
1 22	8 25.80	+18 55.2	1.751	2.734	1.1	18.5
2 1	8 17.06	+19 30.8	1.761	2.738	3.3	18.6
2 11	8 9.13	+20 2.2	1.800	2.743	7.5	18.9
2 21	8 2.93	+20 26.8	1.864	2.747	11.3	19.1
3 2	7 59.11	+20 43.3	1.951	2.753	14.5	19.4

105086 2000 KR_{78} 1 24.4 134°.83 4°.7/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.41	+ 2 50.0	2.412	3.183	12.6	21.0
1 2	8 42.31	+ 2 39.0	2.340	3.199	10.1	20.8
1 12	8 34.58	+ 2 43.0	2.293	3.213	7.3	20.7
1 22	8 25.85	+ 3 1.5	2.274	3.227	5.2	20.6
2 1	8 16.93	+ 3 32.9	2.285	3.241	5.0	20.6
2 11	8 8.66	+ 4 13.8	2.325	3.253	7.0	20.7
2 21	8 1.76	+ 5 0.1	2.393	3.265	9.6	20.9
3 2	7 56.75	+ 5 48.1	2.486	3.277	12.0	21.1

228733 2002 TY_{132} 1 24.4 68°.97 2°.4/25.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.30	+13 43.5	1.238	2.078	18.4	20.2
1 2	8 47.60	+13 34.3	1.191	2.100	13.6	20.0
1 12	8 37.94	+13 39.0	1.164	2.122	8.2	19.7
1 22	8 26.52	+13 54.4	1.163	2.143	3.1	19.5
2 1	8 15.00	+14 15.9	1.188	2.165	4.6	19.7
2 11	8 5.05	+14 38.7	1.240	2.187	9.7	20.0
2 21	7 57.87	+14 59.1	1.315	2.209	14.3	20.3
3 2	7 54.07	+15 14.9	1.410	2.230	18.1	20.6

416870 2005 OO_{7} 1 24.4 135°.64 1°.2/23.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.65	+19 56.1	2.190	3.020	11.8	21.8
1 2	8 43.50	+20 55.8	2.124	3.033	8.5	21.6
1 12	8 35.39	+22 1.2	2.085	3.045	4.8	21.4
1 22	8 26.04	+23 6.8	2.074	3.057	1.4	21.2
2 1	8 16.39	+24 7.4	2.095	3.068	3.6	21.4
2 11	8 7.50	+24 58.5	2.146	3.078	7.2	21.6
2 21	8 0.23	+25 38.1	2.225	3.088	10.6	21.9
3 2	7 55.19	+26 5.8	2.327	3.097	13.3	22.1

143115 2002 XG_{27} 1 24.4 1°.37 2°.9/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.50	+12 35.1	1.320	2.166	17.1	19.3
1 2	8 42.14	+12 23.6	1.252	2.164	12.9	19.0
1 12	8 34.98	+12 26.9	1.206	2.163	8.1	18.7
1 22	8 25.99	+12 43.1	1.184	2.163	3.5	18.5
2 1	8 16.53	+13 8.4	1.187	2.164	4.6	18.5
2 11	8 8.16	+13 37.9	1.216	2.166	9.5	18.8
2 21	8 2.12	+14 6.9	1.269	2.169	14.1	19.1
3 2	7 59.20	+14 31.8	1.341	2.173	18.1	19.4

309345 2007 TP_{31} 1 24.4 318°.87 5°.3/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.60	+ 6 36.6	1.555	2.369	16.5	20.5
1 2	8 43.36	+ 6 10.6	1.478	2.365	13.0	20.3
1 12	8 35.58	+ 6 2.7	1.422	2.362	9.1	20.0
1 22	8 26.11	+ 6 12.9	1.392	2.359	5.8	19.8
2 1	8 16.14	+ 6 39.3	1.389	2.356	5.9	19.8
2 11	8 7.05	+ 7 17.6	1.412	2.353	9.3	20.0
2 21	7 59.98	+ 8 2.1	1.460	2.350	13.3	20.3
3 2	7 55.73	+ 8 47.6	1.529	2.348	16.9	20.5

471755 2012 UF_{104} 1 24.4 182°.08 3°.5/26.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.45	+ 6 15.7	2.653	3.443	11.1	22.1
1 2	8 39.45	+ 6 12.7	2.568	3.443	8.7	21.9
1 12	8 32.97	+ 6 21.6	2.509	3.443	6.0	21.8
1 22	8 25.56	+ 6 41.6	2.478	3.443	3.8	21.6
2 1	8 17.89	+ 7 11.0	2.477	3.442	3.9	21.6
2 11	8 10.73	+ 7 46.8	2.506	3.442	6.1	21.8
2 21	8 4.70	+ 8 25.9	2.563	3.441	8.8	21.9
3 2	8 0.34	+ 9 5.3	2.644	3.441	11.2	22.1

385088 2012 UW_{166} 1 24.4 233°.10 3°.4/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.06	+ 8 15.8	2.561	3.355	11.4	20.6
1 2	8 41.40	+ 7 51.1	2.469	3.348	8.8	20.4
1 12	8 34.13	+ 7 36.2	2.402	3.340	6.0	20.2
1 22	8 25.80	+ 7 30.9	2.365	3.332	3.7	20.0
2 1	8 17.16	+ 7 34.3	2.357	3.323	4.0	20.0
2 11	8 9.03	+ 7 44.3	2.380	3.315	6.4	20.2
2 21	8 2.14	+ 7 58.8	2.430	3.306	9.3	20.3
3 2	7 57.03	+ 8 15.2	2.506	3.297	11.9	20.5

17946 1999 JC_{9} 1 24.4 209°.11 1°.9/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 49.57	+11 51.4	1.804	2.625	14.3	19.5
1 2	8 43.86	+12 18.7	1.721	2.621	10.7	19.2
1 12	8 35.81	+13 0.1	1.663	2.616	6.6	19.0
1 22	8 26.17	+13 52.5	1.631	2.611	2.5	18.7
2 1	8 16.02	+14 50.9	1.629	2.606	3.7	18.8
2 11	8 6.61	+15 49.8	1.656	2.600	8.0	19.0
2 21	7 59.02	+16 44.3	1.709	2.593	12.1	19.3
3 2	7 54.01	+17 31.2	1.785	2.586	15.6	19.5

166961 2003 NZ_{1} 1 24.4 181°.76 0°.8/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.72	+20 8.8	1.970	2.800	12.9	21.1
1 2	8 45.95	+20 31.4	1.893	2.801	9.4	20.8
1 12	8 36.90	+20 58.8	1.841	2.801	5.4	20.6
1 22	8 26.38	+21 26.8	1.818	2.801	1.2	20.3
2 1	8 15.48	+21 51.0	1.826	2.801	3.6	20.5
2 11	8 5.43	+22 8.3	1.863	2.799	7.8	20.7
2 21	7 57.25	+22 17.2	1.926	2.797	11.6	21.0
3 2	7 51.63	+22 17.9	2.013	2.794	14.8	21.2

392520 2011 QW_{30} 1 24.4 173°.00 2°.7/23.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.09	+25 29.6	1.998	2.829	12.7	22.3
1 2	8 47.69	+26 8.9	1.926	2.834	9.3	22.1
1 12	8 37.90	+26 48.7	1.879	2.837	5.5	21.9
1 22	8 26.58	+27 23.1	1.862	2.840	2.8	21.7
2 1	8 14.90	+27 47.2	1.875	2.842	4.8	21.8
2 11	8 4.17	+27 58.1	1.918	2.843	8.5	22.1
2 21	7 55.44	+27 55.8	1.987	2.842	12.0	22.3
3 2	7 49.43	+27 42.2	2.079	2.842	15.0	22.5

256948 2008 ED_{51} 1 24.4 73°.25 1°.4/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.88	+14 24.7	1.680	2.511	14.7	20.4
1 2	8 43.94	+14 38.0	1.623	2.529	10.8	20.1
1 12	8 35.72	+15 2.1	1.589	2.546	6.4	19.9
1 22	8 26.13	+15 33.4	1.582	2.563	2.0	19.7
2 1	8 16.34	+16 7.6	1.603	2.581	3.6	19.8
2 11	8 7.60	+16 40.4	1.653	2.598	7.9	20.1
2 21	8 0.88	+17 8.6	1.729	2.615	11.8	20.4
3 2	7 56.79	+17 30.4	1.827	2.632	15.1	20.6

297385 2000 QW_{16} 1 24.4 88°.47 1°.0/24.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.26	+15 7.0	1.574	2.404	15.6	21.0
1 2	8 46.43	+15 27.0	1.523	2.429	11.4	20.8
1 12	8 37.13	+15 57.6	1.496	2.454	6.6	20.6
1 22	8 26.40	+16 34.3	1.496	2.478	1.8	20.4
2 1	8 15.56	+17 12.1	1.525	2.502	3.7	20.6
2 11	8 5.96	+17 46.5	1.582	2.525	8.3	20.9
2 21	7 58.62	+18 14.4	1.664	2.548	12.4	21.2
3 2	7 54.16	+18 34.6	1.769	2.570	15.7	21.4

122150 2000 JY_{45} 1 24.4 84°.20 4°.3/22.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.85	+26 10.9	1.423	2.274	15.7	19.4
1 2	8 47.40	+27 21.6	1.373	2.290	11.5	19.2
1 12	8 37.93	+28 33.1	1.347	2.306	7.0	19.0
1 22	8 26.59	+29 36.0	1.347	2.322	4.3	18.9
2 1	8 14.97	+30 22.2	1.374	2.338	6.6	19.0
2 11	8 4.77	+30 47.6	1.428	2.353	10.8	19.3
2 21	7 57.25	+30 53.0	1.506	2.368	14.7	19.6
3 2	7 53.13	+30 41.6	1.603	2.383	18.0	19.8

205087 1999 TW_{67} 1 24.4 209°.36 0°.6/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.27	+15 52.8	2.029	2.853	12.8	21.2
1 2	8 44.18	+16 16.0	1.944	2.848	9.5	20.9
1 12	8 35.92	+16 48.0	1.884	2.842	5.5	20.7
1 22	8 26.20	+17 25.5	1.852	2.835	1.4	20.4
2 1	8 16.04	+18 4.2	1.851	2.828	3.2	20.5
2 11	8 6.56	+18 40.0	1.879	2.820	7.4	20.8
2 21	7 58.75	+19 10.1	1.934	2.811	11.2	21.0
3 2	7 53.34	+19 33.1	2.012	2.802	14.5	21.2

149247 2002 SF_{39} 1 24.4 46°.99 7°.4/21.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.32	+34 13.9	1.374	2.228	16.1	19.7
1 2	8 47.89	+35 26.3	1.335	2.246	12.3	19.5
1 12	8 38.23	+36 29.1	1.319	2.266	8.8	19.4
1 22	8 26.64	+37 12.1	1.328	2.286	7.5	19.3
2 1	8 14.93	+37 28.5	1.363	2.306	9.2	19.5
2 11	8 4.95	+37 17.6	1.422	2.327	12.4	19.7
2 21	7 57.96	+36 43.4	1.503	2.348	15.7	20.0
3 2	7 54.58	+35 52.2	1.603	2.369	18.6	20.3

207448 2006 FV_{12} 1 24.4 143°.26 1°.1/23.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.92	+20 59.9	2.358	3.189	11.0	21.1
1 2	8 42.16	+21 33.2	2.286	3.195	7.9	20.9
1 12	8 34.60	+22 10.3	2.241	3.201	4.5	20.7
1 22	8 25.92	+22 47.2	2.224	3.207	1.3	20.4
2 1	8 16.98	+23 20.1	2.239	3.212	3.3	20.6
2 11	8 8.73	+23 46.0	2.283	3.217	6.7	20.8
2 21	8 1.95	+24 3.4	2.355	3.222	9.9	21.0
3 2	7 57.22	+24 12.2	2.450	3.227	12.6	21.2

83403 2001 SK_{33} 1 24.4 134°.78 0°.3/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 50.03	+18 36.2	2.048	2.878	12.5	20.5
1 2	8 43.85	+19 3.5	1.979	2.887	9.1	20.3
1 12	8 35.62	+19 36.8	1.936	2.896	5.2	20.1
1 22	8 26.12	+20 12.1	1.922	2.905	1.0	19.8
2 1	8 16.36	+20 45.3	1.938	2.913	3.3	20.0
2 11	8 7.43	+21 12.7	1.983	2.921	7.3	20.2
2 21	8 0.21	+21 32.6	2.055	2.929	10.8	20.5
3 2	7 55.34	+21 44.4	2.150	2.936	13.8	20.7

36199 1999 TD_{93} 1 24.4 214°.08 3°.5/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.11	+ 5 18.1	2.465	3.251	12.0	19.8
1 2	8 40.83	+ 5 38.3	2.372	3.245	9.4	19.7
1 12	8 33.87	+ 6 13.4	2.304	3.237	6.5	19.5
1 22	8 25.79	+ 7 2.1	2.264	3.229	4.0	19.3
2 1	8 17.34	+ 8 1.3	2.254	3.221	4.0	19.3
2 11	8 9.36	+ 9 7.0	2.275	3.212	6.5	19.4
2 21	8 2.62	+10 14.6	2.324	3.203	9.5	19.6
3 2	7 57.70	+11 20.1	2.398	3.193	12.3	19.8

210432 Dietmarhopp 1 24.4 3°.56 4°.4/21.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.00	+28 3.1	2.033	2.879	11.9	20.1
1 2	8 42.00	+29 37.4	1.966	2.879	8.8	19.9
1 12	8 34.75	+31 12.8	1.925	2.879	5.8	19.7
1 22	8 25.98	+32 41.3	1.912	2.879	4.4	19.6
2 1	8 16.74	+33 55.7	1.929	2.880	6.3	19.7
2 11	8 8.23	+34 51.3	1.974	2.881	9.4	19.9
2 21	8 1.48	+35 26.9	2.044	2.882	12.4	20.1
3 2	7 57.22	+35 43.7	2.135	2.884	15.0	20.3

33315 1998 KA_{63} 1 24.4 282°.12 1°.2/23.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.61	+20 56.9	2.390	3.224	10.8	19.2
1 2	8 40.59	+21 35.7	2.305	3.216	7.8	19.0
1 12	8 33.77	+22 19.0	2.247	3.208	4.4	18.8
1 22	8 25.78	+23 2.9	2.218	3.200	1.3	18.5
2 1	8 17.41	+23 43.3	2.219	3.192	3.3	18.7
2 11	8 9.62	+24 16.9	2.250	3.184	6.8	18.9
2 21	8 3.19	+24 41.5	2.308	3.176	10.0	19.1
3 2	7 58.75	+24 56.8	2.389	3.168	12.8	19.2

139686 2001 QW_{210} 1 24.4 288°.11 5°.3/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.84	+ 4 14.6	1.779	2.579	15.4	19.7
1 2	8 41.84	+ 4 5.6	1.698	2.575	12.2	19.4
1 12	8 34.65	+ 4 15.8	1.639	2.571	8.7	19.2
1 22	8 25.97	+ 4 44.9	1.606	2.567	5.9	19.0
2 1	8 16.84	+ 5 30.5	1.600	2.564	5.7	19.0
2 11	8 8.43	+ 6 27.7	1.622	2.560	8.6	19.2
2 21	8 1.75	+ 7 30.7	1.669	2.557	12.1	19.4
3 2	7 57.53	+ 8 33.8	1.739	2.553	15.4	19.6

249335 2008 VL_{2} 1 24.5 101°.01 1°.6/25.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.26	+13 42.5	2.294	3.109	11.8	20.7
1 2	8 42.30	+13 43.3	2.228	3.125	8.7	20.5
1 12	8 34.63	+13 52.2	2.188	3.141	5.3	20.3
1 22	8 25.94	+14 7.2	2.177	3.156	2.0	20.1
2 1	8 17.09	+14 25.6	2.196	3.171	3.0	20.2
2 11	8 8.99	+14 44.8	2.245	3.186	6.3	20.5
2 21	8 2.36	+15 2.5	2.322	3.201	9.5	20.7
3 2	7 57.74	+15 17.2	2.422	3.215	12.2	20.9

335670 2006 TH_{22} 1 24.5 58°.76 2°.5/25.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.23	+12 20.5	1.159	2.005	19.0	20.6
1 2	8 45.74	+12 33.5	1.105	2.017	14.2	20.3
1 12	8 37.10	+13 4.7	1.072	2.030	8.6	20.1
1 22	8 26.47	+13 49.8	1.063	2.043	3.3	19.8
2 1	8 15.50	+14 42.1	1.079	2.057	4.7	19.9
2 11	8 5.98	+15 34.2	1.121	2.071	10.1	20.3
2 21	7 59.23	+16 20.3	1.185	2.084	15.1	20.6
3 2	7 56.01	+16 57.2	1.270	2.098	19.2	20.9

282162 2001 SC_{167} 1 24.5 124°.72 3°.3/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.04	+ 6 37.3	2.496	3.290	11.7	20.8
1 2	8 39.94	+ 6 45.1	2.420	3.297	9.0	20.6
1 12	8 33.29	+ 7 5.7	2.369	3.305	6.1	20.4
1 22	8 25.68	+ 7 37.7	2.345	3.312	3.7	20.3
2 1	8 17.84	+ 8 18.7	2.352	3.320	3.8	20.3
2 11	8 10.57	+ 9 5.2	2.388	3.327	6.2	20.5
2 21	8 4.54	+ 9 53.6	2.453	3.333	9.0	20.7
3 2	8 0.26	+10 40.6	2.542	3.340	11.6	20.9

76811 2000 QK_{57} 1 24.5 271°.28 1°.7/26.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 41.54	+10 26.8	3.200	4.003	9.1	19.3
1 2	8 37.22	+10 48.3	3.108	3.997	6.9	19.2
1 12	8 31.68	+11 18.4	3.043	3.990	4.4	19.0
1 22	8 25.36	+11 55.5	3.007	3.983	2.1	18.8
2 1	8 18.80	+12 37.5	3.002	3.976	2.5	18.9
2 11	8 12.61	+13 21.4	3.028	3.969	4.9	19.0
2 21	8 7.32	+14 4.8	3.083	3.963	7.4	19.2
3 2	8 3.37	+14 45.4	3.163	3.956	9.7	19.3

309259 2007 RA_{69} 1 24.5 95°.60 0°.8/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 53.08	+19 8.6	1.680	2.515	14.5	21.0
1 2	8 46.29	+19 47.2	1.628	2.538	10.5	20.8
1 12	8 37.08	+20 32.2	1.600	2.561	5.9	20.6
1 22	8 26.45	+21 18.1	1.600	2.583	1.3	20.4
2 1	8 15.66	+21 59.3	1.630	2.605	3.9	20.6
2 11	8 6.04	+22 31.5	1.688	2.626	8.3	20.9
2 21	7 58.62	+22 53.2	1.772	2.647	12.2	21.2
3 2	7 53.99	+23 4.5	1.877	2.667	15.4	21.4

502882 2015 DO_{216} 1 24.5 349°.71 2°.8/22.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.07	+27 1.3	2.196	3.035	11.4	20.9
1 2	8 43.19	+27 24.0	2.123	3.034	8.4	20.7
1 12	8 35.28	+27 45.5	2.075	3.033	5.1	20.5
1 22	8 26.10	+28 1.4	2.056	3.032	2.8	20.4
2 1	8 16.65	+28 8.2	2.066	3.031	4.5	20.5
2 11	8 8.01	+28 4.0	2.105	3.031	7.7	20.7
2 21	8 1.05	+27 48.9	2.170	3.030	10.9	20.9
3 2	7 56.40	+27 24.3	2.258	3.030	13.7	21.1

173851 2001 TK_{143} 1 24.5 10°.88 3°.9/21.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.92	+29 5.8	2.180	3.022	11.4	20.0
1 2	8 42.46	+30 0.5	2.112	3.022	8.4	19.8
1 12	8 34.92	+30 53.6	2.069	3.023	5.5	19.6
1 22	8 26.04	+31 39.4	2.054	3.024	3.9	19.5
2 1	8 16.82	+32 12.9	2.069	3.024	5.5	19.6
2 11	8 8.38	+32 31.3	2.112	3.025	8.5	19.8
2 21	8 1.64	+32 34.4	2.180	3.026	11.4	20.0
3 2	7 57.25	+32 23.9	2.271	3.028	14.0	20.2

44016 Jimmypage 1 24.5 15°.74 8°.0/21.4 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.63	+36 14.7	1.384	2.236	16.0	17.2
1 2	8 47.61	+37 7.9	1.332	2.241	12.5	17.0
1 12	8 38.21	+37 50.0	1.302	2.245	9.3	16.8
1 22	8 26.71	+38 11.1	1.296	2.251	8.0	16.8
2 1	8 14.94	+38 4.8	1.316	2.258	9.6	16.9
2 11	8 4.83	+37 30.8	1.360	2.265	12.8	17.1
2 21	7 57.74	+36 33.9	1.426	2.274	16.2	17.3
3 2	7 54.37	+35 20.8	1.511	2.283	19.3	17.6

366896 2005 TZ_{162} 1 24.5 127°.30 2°.2/23.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.12	+24 11.7	1.953	2.791	12.7	21.3
1 2	8 44.81	+24 42.4	1.886	2.798	9.2	21.1
1 12	8 36.26	+25 14.5	1.844	2.804	5.4	20.9
1 22	8 26.31	+25 42.9	1.830	2.810	2.3	20.7
2 1	8 16.08	+26 3.3	1.846	2.816	4.3	20.9
2 11	8 6.78	+26 12.9	1.891	2.821	8.1	21.1
2 21	7 59.39	+26 11.4	1.961	2.827	11.6	21.3
3 2	7 54.55	+25 59.8	2.054	2.832	14.6	21.5

54969 2001 PL_{34} 1 24.5 151°.95 6°.0/29.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.46	− 2 28.6	2.566	3.314	12.6	19.5
1 2	8 39.52	− 2 39.1	2.484	3.318	10.4	19.3
1 12	8 33.07	− 2 32.1	2.426	3.322	8.2	19.2
1 22	8 25.67	− 2 7.2	2.393	3.325	6.4	19.1
2 1	8 18.01	− 1 25.8	2.390	3.329	6.1	19.1
2 11	8 10.87	− 0 31.0	2.415	3.332	7.4	19.2
2 21	8 4.90	+ 0 32.5	2.467	3.335	9.5	19.3
3 2	8 0.62	+ 1 40.1	2.544	3.337	11.7	19.5

89302 2001 VR_{31} 1 24.5 106°.72 4°.2/22.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.20	+26 34.7	1.563	2.409	14.8	19.4
1 2	8 47.52	+27 45.8	1.510	2.424	10.8	19.2
1 12	8 37.99	+28 57.3	1.480	2.438	6.7	19.0
1 22	8 26.67	+30 0.4	1.478	2.453	4.2	18.9
2 1	8 15.04	+30 47.3	1.505	2.466	6.4	19.0
2 11	8 4.70	+31 14.3	1.558	2.480	10.3	19.3
2 21	7 56.85	+31 21.9	1.636	2.492	14.0	19.6
3 2	7 52.22	+31 12.9	1.734	2.505	17.2	19.8

100463 1996 TU_{14} 1 24.5 95°.42 5°.3/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.83	+ 3 4.3	1.963	2.749	14.6	19.7
1 2	8 42.23	+ 2 53.4	1.897	2.764	11.6	19.5
1 12	8 34.71	+ 3 0.5	1.853	2.779	8.4	19.3
1 22	8 26.00	+ 3 25.3	1.837	2.793	5.8	19.2
2 1	8 17.07	+ 4 5.4	1.848	2.808	5.6	19.2
2 11	8 8.92	+ 4 56.2	1.888	2.822	7.9	19.4
2 21	8 2.41	+ 5 52.5	1.954	2.835	10.9	19.6
3 2	7 58.12	+ 6 49.5	2.044	2.849	13.8	19.8

87150 2000 NW_{18} 1 24.5 205°.42 0°.8/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.38	+18 12.5	2.203	3.032	11.8	19.8
1 2	8 42.75	+19 10.9	2.120	3.027	8.6	19.6
1 12	8 35.11	+20 17.5	2.063	3.023	4.9	19.4
1 22	8 26.11	+21 27.3	2.035	3.018	1.1	19.1
2 1	8 16.66	+22 34.7	2.038	3.013	3.4	19.3
2 11	8 7.82	+23 34.8	2.072	3.007	7.2	19.5
2 21	8 0.48	+24 24.5	2.133	3.000	10.7	19.7
3 2	7 55.34	+25 2.6	2.217	2.994	13.7	19.9

148341 2000 QF_{203} 1 24.5 151°.63 0°.9/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 49.68	+20 28.1	2.261	3.090	11.5	20.4
1 2	8 43.51	+21 1.0	2.189	3.097	8.3	20.2
1 12	8 35.43	+21 38.2	2.144	3.104	4.7	20.0
1 22	8 26.15	+22 15.5	2.128	3.111	1.2	19.8
2 1	8 16.61	+22 48.9	2.143	3.117	3.3	19.9
2 11	8 7.81	+23 15.2	2.188	3.123	6.9	20.2
2 21	8 0.57	+23 33.1	2.260	3.128	10.2	20.4
3 2	7 55.51	+23 42.2	2.356	3.132	13.0	20.6

431493 2007 TW_{71} 1 24.5 189°.05 1°.6/23.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.59	+21 39.6	2.381	3.215	10.8	21.0
1 2	8 41.31	+22 34.8	2.304	3.214	7.8	20.8
1 12	8 34.21	+23 34.5	2.253	3.214	4.5	20.6
1 22	8 25.92	+24 34.0	2.232	3.213	1.7	20.4
2 1	8 17.29	+25 28.3	2.242	3.212	3.6	20.5
2 11	8 9.25	+26 13.6	2.282	3.211	7.0	20.7
2 21	8 2.62	+26 48.0	2.348	3.210	10.1	20.9
3 2	7 58.02	+27 10.9	2.438	3.209	12.8	21.1

165275 2000 SP_{272} 1 24.5 213°.38 2°.0/23.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.52	+23 15.9	1.991	2.823	12.7	21.0
1 2	8 46.70	+23 49.2	1.906	2.815	9.3	20.8
1 12	8 37.47	+24 25.4	1.847	2.807	5.4	20.5
1 22	8 26.60	+24 59.2	1.817	2.798	2.1	20.3
2 1	8 15.23	+25 25.5	1.817	2.788	4.3	20.4
2 11	8 4.65	+25 41.2	1.847	2.777	8.3	20.6
2 21	7 55.96	+25 45.3	1.903	2.766	12.1	20.8
3 2	7 49.92	+25 38.7	1.981	2.753	15.3	21.0

264160 2010 AJ_{32} 1 24.5 244°.03 0°.1/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.62	+18 29.5	2.301	3.129	11.3	20.7
1 2	8 42.06	+18 44.2	2.216	3.122	8.3	20.5
1 12	8 34.65	+19 4.2	2.156	3.115	4.8	20.2
1 22	8 26.01	+19 26.6	2.125	3.108	0.9	19.9
2 1	8 17.03	+19 48.2	2.125	3.101	2.9	20.1
2 11	8 8.66	+20 6.1	2.154	3.093	6.7	20.3
2 21	8 1.75	+20 18.6	2.210	3.086	10.1	20.5
3 2	7 56.90	+20 24.9	2.290	3.078	13.0	20.7

522292 2016 BY_{97} 1 24.5 41°.76 1°.2/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.79	+20 54.1	1.688	2.531	14.1	21.6
1 2	8 44.12	+21 20.3	1.620	2.535	10.2	21.3
1 12	8 35.99	+21 51.7	1.576	2.538	5.8	21.1
1 22	8 26.29	+22 23.4	1.559	2.542	1.5	20.8
2 1	8 16.24	+22 50.2	1.571	2.546	4.1	21.0
2 11	8 7.17	+23 8.6	1.610	2.550	8.5	21.3
2 21	8 0.18	+23 17.0	1.675	2.554	12.6	21.5
3 2	7 55.97	+23 15.7	1.761	2.558	15.9	21.7

493994 2016 AX_{105} 1 24.5 122°.43 0°.3/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.87	+16 31.4	2.057	2.882	12.6	21.7
1 2	8 43.75	+17 29.9	1.992	2.898	9.1	21.5
1 12	8 35.61	+18 37.2	1.954	2.914	5.2	21.3
1 22	8 26.20	+19 48.1	1.945	2.929	1.0	21.0
2 1	8 16.52	+20 56.7	1.967	2.943	3.3	21.2
2 11	8 7.64	+21 58.1	2.020	2.957	7.2	21.5
2 21	8 0.45	+22 49.2	2.099	2.970	10.7	21.8
3 2	7 55.56	+23 28.7	2.202	2.983	13.7	22.0

306140 2010 KW_{8} 1 24.5 239°.71 0°.2/24.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.09	+16 21.2	2.803	3.623	9.8	21.2
1 2	8 40.01	+16 57.5	2.708	3.611	7.2	21.0
1 12	8 33.40	+17 40.7	2.641	3.598	4.1	20.8
1 22	8 25.77	+18 27.9	2.603	3.585	0.9	20.5
2 1	8 17.78	+19 15.8	2.596	3.572	2.5	20.6
2 11	8 10.21	+20 1.0	2.620	3.559	5.7	20.8
2 21	8 3.74	+20 40.9	2.673	3.545	8.7	21.0
3 2	7 58.92	+21 14.0	2.751	3.531	11.3	21.1

197161 2003 UM_{273} 1 24.5 74°.90 5°.6/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.62	+ 1 37.8	2.117	2.896	13.9	20.3
1 2	8 40.61	+ 1 22.3	2.041	2.901	11.2	20.2
1 12	8 33.79	+ 1 24.6	1.989	2.907	8.4	20.0
1 22	8 25.84	+ 1 44.8	1.962	2.913	6.1	19.9
2 1	8 17.60	+ 2 21.1	1.964	2.919	5.9	19.9
2 11	8 10.02	+ 3 9.8	1.994	2.924	7.8	20.0
2 21	8 3.88	+ 4 5.9	2.051	2.930	10.6	20.2
3 2	7 59.79	+ 5 4.4	2.131	2.936	13.3	20.4

216438 2009 DT_{121} 1 24.5 226°.14 1°.1/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.92	+20 18.1	1.807	2.645	13.6	21.1
1 2	8 44.95	+20 51.0	1.727	2.639	9.9	20.8
1 12	8 36.52	+21 30.2	1.671	2.632	5.7	20.6
1 22	8 26.42	+22 10.6	1.643	2.625	1.4	20.3
2 1	8 15.81	+22 46.8	1.644	2.618	4.0	20.4
2 11	8 6.04	+23 14.7	1.674	2.611	8.4	20.7
2 21	7 58.20	+23 32.2	1.729	2.603	12.5	20.9
3 2	7 53.09	+23 39.3	1.806	2.595	15.9	21.1

192039 2005 YM_{286} 1 24.5 177°.36 1°.9/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 46.86	+10 59.6	2.312	3.122	11.9	20.9
1 2	8 41.44	+11 23.6	2.231	3.124	9.0	20.7
1 12	8 34.26	+11 59.1	2.175	3.125	5.6	20.5
1 22	8 25.94	+12 43.5	2.147	3.125	2.4	20.3
2 1	8 17.30	+13 33.4	2.150	3.125	3.1	20.3
2 11	8 9.25	+14 24.6	2.183	3.125	6.4	20.6
2 21	8 2.57	+15 13.6	2.244	3.125	9.7	20.8
3 2	7 57.86	+15 57.5	2.329	3.124	12.6	21.0

330908 2009 SX_{74} 1 24.5 69°.54 0°.2/24.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.95	+16 36.7	1.833	2.668	13.5	20.9
1 2	8 42.56	+17 11.4	1.768	2.678	9.8	20.7
1 12	8 35.00	+17 55.1	1.728	2.688	5.7	20.5
1 22	8 26.09	+18 43.5	1.715	2.698	1.2	20.2
2 1	8 16.89	+19 31.4	1.731	2.708	3.4	20.4
2 11	8 8.57	+20 14.2	1.776	2.718	7.6	20.7
2 21	8 2.07	+20 49.0	1.847	2.729	11.4	20.9
3 2	7 58.02	+21 14.3	1.940	2.739	14.6	21.1

416980 2005 TD_{77} 1 24.5 99°.88 0°.8/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.37	+20 15.2	1.968	2.801	12.8	21.9
1 2	8 44.83	+20 38.1	1.910	2.819	9.3	21.7
1 12	8 36.20	+21 5.2	1.877	2.837	5.2	21.5
1 22	8 26.34	+21 32.4	1.872	2.855	1.2	21.2
2 1	8 16.31	+21 55.6	1.898	2.873	3.5	21.4
2 11	8 7.26	+22 12.1	1.952	2.890	7.4	21.7
2 21	8 0.07	+22 20.5	2.034	2.906	11.0	21.9
3 2	7 55.31	+22 21.1	2.138	2.923	13.9	22.2

13429 1999 VM_{35} 1 24.5 92°.34 0°.1/24.5 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.98	+17 31.3	2.630	3.455	10.2	18.6
1 2	8 39.90	+17 53.1	2.556	3.462	7.4	18.5
1 12	8 33.30	+18 20.2	2.509	3.468	4.2	18.3
1 22	8 25.76	+18 50.0	2.491	3.474	0.9	18.0
2 1	8 18.00	+19 19.5	2.503	3.480	2.5	18.2
2 11	8 10.82	+19 45.9	2.546	3.486	5.8	18.4
2 21	8 4.87	+20 7.6	2.617	3.492	8.7	18.6
3 2	8 0.66	+20 23.4	2.712	3.498	11.2	18.8

432211 2009 EF_{15} 1 24.5 271°.14 2°.3/23.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.85	+25 52.1	2.454	3.289	10.5	21.6
1 2	8 42.24	+26 19.8	2.368	3.278	7.7	21.4
1 12	8 34.76	+26 47.8	2.309	3.267	4.6	21.2
1 22	8 26.07	+27 11.9	2.278	3.256	2.4	21.0
2 1	8 17.03	+27 28.6	2.278	3.245	4.0	21.1
2 11	8 8.60	+27 35.7	2.308	3.233	7.2	21.3
2 21	8 1.61	+27 32.4	2.364	3.222	10.2	21.5
3 2	7 56.69	+27 19.7	2.443	3.211	12.9	21.6

54620 2000 ST_{8} 1 24.5 227°.29 4°.3/21.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.25	+34 16.5	2.896	3.720	9.4	19.2
1 2	8 43.81	+34 54.7	2.814	3.710	7.2	19.0
1 12	8 35.60	+35 27.8	2.759	3.700	5.1	18.9
1 22	8 26.23	+35 51.4	2.734	3.689	4.3	18.8
2 1	8 16.56	+36 2.1	2.739	3.678	5.4	18.9
2 11	8 7.51	+35 58.4	2.773	3.666	7.5	19.0
2 21	7 59.86	+35 40.8	2.834	3.654	9.8	19.1
3 2	7 54.21	+35 11.6	2.918	3.642	11.9	19.3

33835 2000 EQ_{200} 1 24.5 256°.52 2°.1/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.18	+13 31.7	1.525	2.357	15.9	19.8
1 2	8 45.48	+13 33.1	1.441	2.347	12.0	19.6
1 12	8 36.99	+13 47.3	1.381	2.337	7.4	19.3
1 22	8 26.57	+14 11.8	1.346	2.327	2.8	19.0
2 1	8 15.49	+14 42.6	1.340	2.316	4.2	19.0
2 11	8 5.29	+15 14.7	1.360	2.306	9.1	19.3
2 21	7 57.26	+15 44.3	1.405	2.295	13.8	19.5
3 2	7 52.30	+16 8.4	1.472	2.284	17.8	19.8

418695 2008 UF_{12} 1 24.5 109°.24 2°.7/22.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.95	+25 59.9	2.130	2.968	11.8	21.6
1 2	8 43.85	+26 33.7	2.064	2.975	8.6	21.4
1 12	8 35.69	+27 7.4	2.023	2.982	5.1	21.2
1 22	8 26.25	+27 36.1	2.011	2.988	2.7	21.1
2 1	8 16.57	+27 55.6	2.029	2.995	4.5	21.2
2 11	8 7.74	+28 3.7	2.076	3.001	7.8	21.4
2 21	8 0.66	+28 0.1	2.148	3.008	11.0	21.6
3 2	7 55.95	+27 46.1	2.244	3.014	13.8	21.8

126095 2001 YM_{102} 1 24.5 40°.56 3°.6/22.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.87	+25 58.7	1.612	2.463	14.2	19.4
1 2	8 44.34	+26 52.5	1.553	2.471	10.4	19.2
1 12	8 36.18	+27 47.3	1.519	2.479	6.3	19.0
1 22	8 26.38	+28 35.8	1.512	2.488	3.6	18.8
2 1	8 16.25	+29 11.5	1.532	2.498	5.8	19.0
2 11	8 7.25	+29 30.8	1.580	2.507	9.7	19.2
2 21	8 0.50	+29 33.7	1.651	2.517	13.4	19.5
3 2	7 56.71	+29 22.1	1.743	2.527	16.6	19.7

35772 1999 JM_7 1 24.5 175°.56 0°.1/24.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 50.57	+16 20.5	1.825	2.655	13.8	19.0
1 2	8 44.61	+17 8.5	1.749	2.657	10.1	18.8
1 12	8 36.30	+18 7.0	1.699	2.658	5.8	18.5
1 22	8 26.41	+19 11.0	1.676	2.660	1.2	18.2
2 1	8 16.08	+20 14.3	1.684	2.660	3.6	18.4
2 11	8 6.56	+21 11.2	1.720	2.660	8.0	18.7
2 21	7 58.91	+21 58.3	1.783	2.660	12.1	18.9
3 2	7 53.88	+22 33.9	1.868	2.659	15.4	19.1

200805 2001 XZ_{150} 1 24.5 15°.39 1°.6/23.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.11	+19 32.6	1.157	2.022	17.7	20.0
1 2	8 43.75	+20 23.3	1.100	2.024	12.8	19.7
1 12	8 36.15	+21 25.2	1.063	2.028	7.3	19.4
1 22	8 26.41	+22 30.1	1.050	2.033	1.9	19.1
2 1	8 16.16	+23 28.8	1.063	2.039	5.3	19.3
2 11	8 7.27	+24 14.1	1.100	2.046	10.8	19.6
2 21	8 1.14	+24 43.0	1.160	2.053	15.8	19.9
3 2	7 58.62	+24 55.4	1.238	2.061	19.9	20.2

467821 2010 JP_{102} 1 24.5 191°.92 0°.1/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.12	+16 18.7	2.439	3.263	10.9	21.1
1 2	8 40.90	+16 59.4	2.358	3.262	8.0	20.9
1 12	8 33.97	+17 47.9	2.302	3.261	4.6	20.7
1 22	8 25.93	+18 40.7	2.276	3.259	1.0	20.4
2 1	8 17.56	+19 33.6	2.281	3.258	2.8	20.5
2 11	8 9.74	+20 22.8	2.317	3.256	6.3	20.8
2 21	8 3.23	+21 5.3	2.380	3.254	9.5	21.0
3 2	7 58.63	+21 39.7	2.467	3.252	12.3	21.2

333194 2012 FH_{76} 1 24.5 293°.26 6°.9/20.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.75	+34 59.7	1.752	2.594	13.7	20.5
1 2	8 46.79	+36 7.7	1.674	2.578	10.7	20.2
1 12	8 37.82	+37 9.9	1.620	2.562	8.0	20.1
1 22	8 26.76	+37 57.0	1.593	2.546	7.0	20.0
2 1	8 15.02	+38 21.7	1.593	2.530	8.7	20.0
2 11	8 4.28	+38 20.7	1.619	2.515	11.8	20.2
2 21	7 55.92	+37 55.8	1.667	2.499	15.1	20.3
3 2	7 50.87	+37 11.6	1.736	2.484	18.0	20.5

355956 2008 YZ_{144} 1 24.5 236°.79 1°.7/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.33	+14 52.1	1.795	2.619	14.2	21.1
1 2	8 45.96	+14 42.0	1.707	2.609	10.6	20.8
1 12	8 37.12	+14 40.5	1.644	2.599	6.5	20.5
1 22	8 26.60	+14 45.6	1.608	2.588	2.3	20.3
2 1	8 15.54	+14 54.6	1.601	2.577	3.7	20.3
2 11	8 5.27	+15 4.4	1.623	2.565	8.2	20.6
2 21	7 56.91	+15 12.8	1.671	2.553	12.4	20.8
3 2	7 51.26	+15 18.3	1.741	2.541	16.0	21.0

35000 1978 VN_3 1 24.5 38°.32 2°.4/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.85	+12 11.1	1.692	2.521	14.8	19.5
1 2	8 42.62	+12 12.0	1.624	2.527	11.1	19.3
1 12	8 35.12	+12 25.7	1.580	2.533	6.9	19.0
1 22	8 26.18	+12 49.7	1.561	2.540	3.0	18.8
2 1	8 16.92	+13 20.5	1.571	2.547	3.9	18.9
2 11	8 8.57	+13 53.8	1.609	2.554	8.0	19.1
2 21	8 2.13	+14 25.6	1.672	2.562	11.9	19.4
3 2	7 58.25	+14 53.2	1.757	2.570	15.3	19.6

142833 2002 VC_{12} 1 24.5 141°.85 2°.0/23.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.27	+23 29.0	2.047	2.881	12.4	20.5
1 2	8 45.56	+24 2.8	1.981	2.891	8.9	20.3
1 12	8 36.69	+24 38.4	1.940	2.900	5.2	20.1
1 22	8 26.48	+25 11.0	1.929	2.909	2.1	19.9
2 1	8 16.01	+25 36.0	1.947	2.918	4.1	20.0
2 11	8 6.45	+25 50.8	1.995	2.925	7.8	20.3
2 21	7 58.74	+25 54.7	2.070	2.933	11.2	20.5
3 2	7 53.50	+25 48.7	2.167	2.940	14.1	20.7

383722 2007 UN_{79} 1 24.5 1°.31 0°.4/24.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.17	+19 11.4	1.915	2.755	12.8	21.1
1 2	8 41.30	+19 31.8	1.841	2.754	9.3	20.8
1 12	8 34.33	+19 58.3	1.792	2.754	5.3	20.6
1 22	8 26.02	+20 27.0	1.771	2.754	1.1	20.3
2 1	8 17.37	+20 53.9	1.778	2.755	3.4	20.5
2 11	8 9.51	+21 15.6	1.814	2.756	7.5	20.7
2 21	8 3.37	+21 30.1	1.876	2.757	11.3	21.0
3 2	7 59.58	+21 36.5	1.959	2.760	14.4	21.2

212456 2006 QK_{20} 1 24.5 147°.74 1°.9/23.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.36	+25 8.2	2.755	3.584	9.7	21.0
1 2	8 42.30	+25 33.1	2.684	3.591	7.0	20.8
1 12	8 34.67	+25 58.0	2.640	3.598	4.1	20.7
1 22	8 26.06	+26 19.6	2.626	3.605	1.9	20.5
2 1	8 17.27	+26 34.8	2.643	3.611	3.4	20.6
2 11	8 9.11	+26 42.0	2.691	3.617	6.3	20.8
2 21	8 2.29	+26 40.6	2.766	3.623	9.0	21.0
3 2	7 57.30	+26 31.3	2.866	3.628	11.3	21.2

59530 1999 JU_{24} 1 24.5 314°.35 5°.5/21.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 50.22	+34 44.5	2.231	3.066	11.4	17.7
1 2	8 44.23	+35 37.8	2.162	3.063	8.8	17.5
1 12	8 36.01	+36 25.1	2.120	3.061	6.4	17.4
1 22	8 26.36	+37 0.2	2.104	3.058	5.5	17.3
2 1	8 16.37	+37 18.2	2.118	3.055	6.8	17.4
2 11	8 7.24	+37 17.3	2.159	3.053	9.3	17.5
2 21	7 59.94	+36 58.7	2.225	3.050	12.0	17.7
3 2	7 55.15	+36 25.3	2.312	3.048	14.4	17.9

517113 2013 GL_{17} 1 24.5 214°.11 17°.3/ 3.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.13	−17 40.6	1.177	1.892	26.2	21.5
1 2	8 45.37	−18 33.6	1.106	1.890	23.7	21.3
1 12	8 37.25	−18 38.4	1.048	1.886	21.1	21.1
1 22	8 26.69	−17 45.2	1.006	1.883	18.7	20.9
2 1	8 15.24	−15 50.0	0.983	1.879	17.3	20.8
2 11	8 4.81	−13 0.1	0.981	1.874	17.7	20.8
2 21	7 57.03	− 9 32.6	0.999	1.870	19.8	21.0
3 2	7 52.99	− 5 48.5	1.038	1.864	22.7	21.1

286479 2002 AJ_{169} 1 24.5 47°.77 3°.0/23.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.66	+23 23.7	1.300	2.158	16.6	20.4
1 2	8 46.06	+24 15.2	1.246	2.167	12.0	20.2
1 12	8 37.35	+25 11.2	1.214	2.177	7.0	19.9
1 22	8 26.65	+26 3.2	1.207	2.187	3.1	19.7
2 1	8 15.60	+26 43.4	1.226	2.197	5.8	19.9
2 11	8 5.94	+27 7.1	1.272	2.208	10.6	20.2
2 21	7 59.01	+27 13.8	1.340	2.219	15.1	20.5
3 2	7 55.54	+27 5.4	1.428	2.231	18.7	20.8

186921 2004 PM_{36} 1 24.5 154°.45 2°.8/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.75	+ 8 29.9	2.422	3.219	11.9	21.3
1 2	8 41.97	+ 8 38.4	2.344	3.226	9.1	21.1
1 12	8 34.54	+ 8 58.8	2.292	3.234	6.0	20.9
1 22	8 26.06	+ 9 29.4	2.269	3.240	3.3	20.8
2 1	8 17.32	+10 7.5	2.276	3.247	3.5	20.8
2 11	8 9.20	+10 49.8	2.313	3.252	6.3	21.0
2 21	8 2.41	+11 32.7	2.379	3.257	9.3	21.2
3 2	7 57.50	+12 13.4	2.469	3.262	12.0	21.4

303265 Littmann 1 24.5 259°.82 3°.3/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.96	+ 9 19.2	1.526	2.350	16.3	20.9
1 2	8 43.82	+ 9 34.0	1.446	2.344	12.5	20.6
1 12	8 36.03	+10 7.3	1.388	2.338	8.1	20.3
1 22	8 26.41	+10 57.0	1.356	2.332	4.0	20.1
2 1	8 16.19	+11 58.0	1.351	2.326	4.6	20.1
2 11	8 6.81	+13 3.8	1.373	2.320	9.0	20.3
2 21	7 59.49	+14 8.0	1.420	2.313	13.5	20.6
3 2	7 55.10	+15 5.7	1.489	2.307	17.4	20.8

410524 2008 EC_{166} 1 24.5 65°.09 11°.9/ 1.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.32	−13 34.6	1.851	2.551	18.3	20.8
1 2	8 41.46	−14 27.6	1.779	2.554	16.3	20.7
1 12	8 34.47	−14 50.5	1.724	2.558	14.3	20.5
1 22	8 26.07	−14 39.4	1.691	2.562	12.6	20.4
2 1	8 17.28	−13 53.3	1.680	2.565	12.0	20.4
2 11	8 9.21	−12 36.2	1.694	2.569	12.5	20.4
2 21	8 2.82	−10 55.8	1.730	2.573	14.1	20.5
3 2	7 58.81	− 9 1.5	1.789	2.577	16.1	20.7

129573 1997 HY_1 1 24.5 283°.34 0°.1/24.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.41	+18 5.0	2.075	2.905	12.3	20.5
1 2	8 43.03	+18 26.4	1.972	2.880	9.1	20.3
1 12	8 35.46	+18 55.0	1.895	2.855	5.3	20.0
1 22	8 26.31	+19 27.5	1.846	2.830	1.1	19.7
2 1	8 16.55	+19 59.9	1.827	2.804	3.3	19.8
2 11	8 7.30	+20 28.2	1.837	2.778	7.6	20.0
2 21	7 59.60	+20 50.0	1.874	2.752	11.5	20.2
3 2	7 54.25	+21 4.0	1.934	2.725	14.9	20.3

113404 2002 SA_{24} 1 24.5 33°.52 6°.0/20.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.53	+28 8.3	1.394	2.254	15.5	17.8
1 2	8 44.62	+30 4.6	1.343	2.262	11.5	17.6
1 12	8 36.62	+32 1.8	1.315	2.271	7.6	17.4
1 22	8 26.55	+33 47.7	1.314	2.281	6.1	17.4
2 1	8 15.96	+35 11.3	1.340	2.291	8.4	17.5
2 11	8 6.62	+36 6.6	1.390	2.301	12.2	17.8
2 21	7 59.89	+36 33.8	1.464	2.313	15.8	18.0
3 2	7 56.61	+36 36.7	1.555	2.324	18.9	18.3

119663 2001 XP_{65} 1 24.5 38°.30 0°.9/24.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.06	+18 58.3	1.687	2.530	14.1	19.3
1 2	8 42.90	+19 41.6	1.621	2.536	10.2	19.0
1 12	8 35.36	+20 33.0	1.579	2.541	5.8	18.8
1 22	8 26.27	+21 26.9	1.564	2.547	1.3	18.5
2 1	8 16.82	+22 17.4	1.577	2.553	3.9	18.7
2 11	8 8.30	+22 59.4	1.619	2.559	8.4	19.0
2 21	8 1.77	+23 30.3	1.685	2.566	12.4	19.2
3 2	7 57.92	+23 49.3	1.773	2.572	15.8	19.5

457218 2008 KC_4 1 24.5 330°.94 10°.1/29.1 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 44.11	− 3 16.0	1.467	2.251	18.8	21.3
1 2	8 40.41	− 4 7.9	1.383	2.235	16.0	21.0
1 12	8 34.15	− 4 33.0	1.317	2.220	13.0	20.8
1 22	8 26.07	− 4 26.9	1.273	2.206	10.7	20.6
2 1	8 17.31	− 3 48.5	1.252	2.193	10.2	20.5
2 11	8 9.25	− 2 42.1	1.256	2.180	12.0	20.6
2 21	8 3.12	− 1 15.6	1.282	2.168	15.1	20.8
3 2	7 59.84	+ 0 20.9	1.328	2.158	18.4	20.9

375998 2009 YU_{10} 1 24.5 229°.63 0°.1/24.5 18

12 23	8 48.97	+18 24.1	1.989	2.822	12.7	21.4
1 2	8 43.27	+18 36.6	1.912	2.821	9.3	21.2
1 12	8 35.47	+18 55.2	1.860	2.820	5.3	20.9
1 22	8 26.29	+19 16.4	1.836	2.819	1.1	20.6
2 1	8 16.78	+19 36.7	1.841	2.818	3.3	20.8
2 11	8 8.04	+19 53.0	1.875	2.817	7.4	21.1
2 21	8 1.01	+20 3.5	1.936	2.815	11.1	21.3
3 2	7 56.36	+20 7.5	2.020	2.814	14.3	21.5

359162 2009 BD_{150} 1 24.5 285°.25 0°.7/24.2 18

12 23	8 51.12	+19 55.0	1.560	2.404	15.0	21.2
1 2	8 45.43	+20 12.6	1.481	2.396	11.0	20.9
1 12	8 36.98	+20 37.0	1.425	2.387	6.3	20.6
1 22	8 26.63	+21 3.2	1.396	2.379	1.4	20.3
2 1	8 15.72	+21 26.2	1.395	2.371	4.2	20.5
2 11	8 5.77	+21 41.9	1.421	2.363	9.2	20.7
2 21	7 58.04	+21 48.4	1.472	2.356	13.7	21.0
3 2	7 53.38	+21 45.7	1.544	2.348	17.5	21.2

82643 2001 PK_6 1 24.5 73°.02 1°.0/23.9 18

12 23	8 47.62	+20 43.2	2.182	3.017	11.6	19.1
1 2	8 42.06	+21 14.8	2.120	3.031	8.4	18.9
1 12	8 34.65	+21 50.4	2.084	3.045	4.8	18.7
1 22	8 26.12	+22 25.8	2.077	3.059	1.3	18.5
2 1	8 17.39	+22 57.3	2.099	3.073	3.3	18.7
2 11	8 9.45	+23 21.7	2.151	3.087	6.9	18.9
2 21	8 3.10	+23 37.6	2.230	3.101	10.2	19.2
3 2	7 58.89	+23 44.8	2.332	3.116	12.9	19.4

365803 2011 CJ_{115} 1 24.5 129°.96 3°.6/26.9 18

12 23	8 47.39	+ 6 5.1	2.384	3.173	12.3	21.5
1 2	8 41.71	+ 6 9.6	2.312	3.186	9.5	21.4
1 12	8 34.40	+ 6 27.5	2.264	3.199	6.5	21.2
1 22	8 26.08	+ 6 57.7	2.245	3.211	4.0	21.1
2 1	8 17.54	+ 7 37.6	2.256	3.223	4.1	21.1
2 11	8 9.64	+ 8 23.6	2.297	3.234	6.5	21.2
2 21	8 3.09	+ 9 11.8	2.366	3.245	9.4	21.4
3 2	7 58.42	+ 9 58.8	2.459	3.255	12.0	21.6

268488 2005 YO 1 24.5 258°.69 1°.0/25.0 18

12 23	8 48.50	+15 26.9	1.938	2.766	13.2	20.8
1 2	8 42.99	+15 35.1	1.859	2.764	9.7	20.6
1 12	8 35.34	+15 52.1	1.804	2.761	5.8	20.3
1 22	8 26.29	+16 15.0	1.777	2.758	1.7	20.1
2 1	8 16.87	+16 40.4	1.779	2.756	3.3	20.2
2 11	8 8.19	+17 4.7	1.810	2.753	7.4	20.4
2 21	8 1.22	+17 25.3	1.867	2.750	11.2	20.6
3 2	7 56.64	+17 40.5	1.947	2.748	14.5	20.9

293655 2007 PP_{12} 1 24.5 115°.87 2°.7/23.4 18

12 23	8 57.45	+25 56.3	1.823	2.656	13.7	21.0
1 2	8 49.40	+26 17.2	1.767	2.676	9.9	20.8
1 12	8 38.90	+26 36.7	1.737	2.695	5.9	20.6
1 22	8 26.98	+26 49.5	1.735	2.713	2.7	20.5
2 1	8 14.97	+26 51.6	1.763	2.731	4.7	20.6
2 11	8 4.23	+26 41.6	1.820	2.749	8.6	20.9
2 21	7 55.77	+26 20.7	1.904	2.765	12.2	21.1
3 2	7 50.20	+25 51.1	2.010	2.781	15.1	21.4

95587 2002 FB_9 1 24.5 282°.81 4°.8/27.2 18

12 23	8 46.30	+ 4 53.4	1.969	2.766	14.2	19.7
1 2	8 41.39	+ 4 43.9	1.881	2.757	11.2	19.5
1 12	8 34.45	+ 4 51.2	1.817	2.749	8.0	19.3
1 22	8 26.13	+ 5 15.2	1.778	2.741	5.3	19.1
2 1	8 17.37	+ 5 53.6	1.768	2.732	5.3	19.1
2 11	8 9.21	+ 6 42.7	1.786	2.724	8.0	19.2
2 21	8 2.60	+ 7 37.2	1.830	2.716	11.3	19.4
3 2	7 58.21	+ 8 32.5	1.898	2.708	14.5	19.6

85623 1998 HL_{123} 1 24.5 328°.52 8°.7/17.6 18

12 23	8 49.18	+39 58.2	1.916	2.753	12.9	18.4
1 2	8 44.27	+41 50.0	1.848	2.738	10.6	18.2
1 12	8 36.48	+43 33.8	1.804	2.724	9.0	18.1
1 22	8 26.59	+44 59.3	1.787	2.710	8.9	18.0
2 1	8 15.94	+45 58.1	1.796	2.696	10.4	18.1
2 11	8 6.13	+46 26.8	1.830	2.683	12.8	18.2
2 21	7 58.56	+46 26.5	1.885	2.671	15.4	18.4
3 2	7 54.18	+46 1.8	1.958	2.659	17.6	18.5

321781 2010 ON_{84} 1 24.5 119°.03 5°.2/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 48.61	+ 1 55.5	2.069	2.845	14.3	21.2
1 2	8 42.78	+ 1 59.5	2.001	2.862	11.4	21.0
1 12	8 35.09	+ 2 22.3	1.956	2.877	8.3	20.8
1 22	8 26.24	+ 3 2.9	1.938	2.893	5.8	20.7
2 1	8 17.16	+ 3 58.5	1.949	2.908	5.5	20.7
2 11	8 8.84	+ 5 4.0	1.989	2.922	7.6	20.9
2 21	8 2.08	+ 6 13.9	2.057	2.936	10.6	21.1
3 2	7 57.46	+ 7 23.1	2.148	2.949	13.3	21.3

212620 2006 TF_{15} 1 24.5 357°.17 5°.5/28.2 18

12 23	8 44.37	+ 0 54.6	2.407	3.177	12.7	20.0
1 2	8 39.61	+ 0 36.8	2.324	3.177	10.3	19.8
1 12	8 33.26	+ 0 35.0	2.265	3.177	7.8	19.6
1 22	8 25.88	+ 0 49.6	2.232	3.177	5.9	19.5
2 1	8 18.21	+ 1 19.4	2.227	3.177	5.6	19.5
2 11	8 11.07	+ 2 1.3	2.251	3.177	7.3	19.6
2 21	8 5.17	+ 2 51.1	2.302	3.177	9.8	19.8
3 2	8 1.06	+ 3 44.6	2.377	3.177	12.2	19.9

256350 2006 XX_{45} 1 24.5 95°.61 4°.5/26.3 18

12 23	8 51.77	+ 8 32.1	1.797	2.604	15.0	20.4
1 2	8 45.31	+ 7 47.9	1.728	2.613	11.6	20.2
1 12	8 36.63	+ 7 16.6	1.682	2.622	7.9	20.0
1 22	8 26.57	+ 6 58.6	1.663	2.630	4.9	19.8
2 1	8 16.23	+ 6 53.0	1.673	2.639	5.2	19.9
2 11	8 6.83	+ 6 57.5	1.711	2.648	8.3	20.1
2 21	7 59.32	+ 7 8.7	1.775	2.656	11.9	20.3
3 2	7 54.34	+ 7 23.4	1.862	2.665	15.0	20.5

283203 2010 FV_{13} 1 24.5 230°.67 3°.7/27.3 18

12 23	8 44.52	+ 5 1.4	2.509	3.296	11.8	21.2
1 2	8 39.72	+ 5 14.7	2.419	3.291	9.2	21.0
1 12	8 33.33	+ 5 42.3	2.354	3.286	6.5	20.8
1 22	8 25.90	+ 6 23.2	2.316	3.280	4.1	20.7
2 1	8 18.15	+ 7 14.8	2.309	3.275	4.0	20.7
2 11	8 10.87	+ 8 13.4	2.331	3.269	6.4	20.8
2 21	8 4.78	+ 9 14.7	2.381	3.263	9.2	21.0
3 2	8 0.42	+10 14.9	2.457	3.257	11.9	21.1

190133 2005 LU_{35} 1 24.5 339°.56 4°.8/27.4 18

12 23	8 45.00	+ 4 20.5	2.133	2.925	13.4	20.2
1 2	8 40.26	+ 4 6.2	2.050	2.923	10.6	20.0
1 12	8 33.72	+ 4 7.5	1.991	2.920	7.7	19.8
1 22	8 25.99	+ 4 24.4	1.958	2.917	5.3	19.6
2 1	8 17.92	+ 4 55.2	1.953	2.915	5.2	19.6
2 11	8 10.44	+ 5 36.3	1.977	2.913	7.5	19.7
2 21	8 4.37	+ 6 23.4	2.027	2.911	10.5	19.9
3 2	8 0.33	+ 7 12.2	2.101	2.909	13.3	20.1

502429 2015 BG_{260} 1 24.5 189°.97 1°.6/25.7 18

12 23	8 45.65	+11 35.0	2.417	3.228	11.4	20.8
1 2	8 40.58	+12 5.4	2.333	3.228	8.5	20.6
1 12	8 33.84	+12 46.7	2.276	3.227	5.3	20.4
1 22	8 26.01	+13 36.3	2.247	3.226	2.1	20.1
2 1	8 17.86	+14 30.5	2.249	3.225	2.9	20.2
2 11	8 10.25	+15 25.3	2.281	3.223	6.2	20.4
2 21	8 3.92	+16 17.1	2.341	3.222	9.4	20.6
3 2	7 59.45	+17 3.2	2.426	3.220	12.2	20.8

203873 2002 XR_{41} 1 24.5 144°.97 1°.5/25.4 18

12 23	8 47.63	+13 54.3	2.502	3.315	11.0	20.5
1 2	8 41.88	+13 49.2	2.424	3.320	8.2	20.3
1 12	8 34.51	+13 51.3	2.373	3.325	5.0	20.1
1 22	8 26.14	+13 58.8	2.350	3.330	2.0	19.9
2 1	8 17.54	+14 9.8	2.359	3.334	2.8	20.0
2 11	8 9.56	+14 22.0	2.397	3.338	6.0	20.2
2 21	8 2.91	+14 33.6	2.464	3.342	9.1	20.4
3 2	7 58.11	+14 42.9	2.555	3.346	11.7	20.6

196672 2003 SY_{54} 1 24.5 79°.32 1°.9/23.6 18

12 23	8 51.56	+24 26.6	2.016	2.852	12.4	19.6
1 2	8 45.03	+24 39.0	1.954	2.865	9.0	19.4
1 12	8 36.40	+24 51.7	1.917	2.877	5.2	19.2
1 22	8 26.52	+25 0.5	1.909	2.890	2.0	19.0
2 1	8 16.48	+25 2.2	1.931	2.902	4.0	19.2
2 11	8 7.42	+24 55.1	1.981	2.914	7.7	19.5
2 21	8 0.24	+24 39.4	2.058	2.927	11.1	19.7
3 2	7 55.51	+24 16.3	2.158	2.939	13.9	19.9

68467 2001 SW_{160} 1 24.5 20°.66 13°.2/ 1.6 18

12 23	8 45.87	−14 6.7	1.706	2.411	19.5	19.1
1 2	8 41.31	−15 19.8	1.638	2.414	17.5	18.9
1 12	8 34.49	−16 1.5	1.587	2.418	15.5	18.8
1 22	8 26.17	−16 6.4	1.556	2.422	13.9	18.7
2 1	8 17.41	−15 33.0	1.547	2.426	13.2	18.6
2 11	8 9.44	−14 24.8	1.560	2.431	13.7	18.7
2 21	8 3.26	−12 49.6	1.596	2.436	15.2	18.8
3 2	7 59.61	−10 57.6	1.652	2.441	17.2	18.9

519971 2013 TK_{166} 1 24.5 204°.24 2°.7/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 47.45	+10 21.0	2.299	3.105	12.1	21.7
1 2	8 41.93	+10 11.9	2.215	3.104	9.2	21.5
1 12	8 34.63	+10 13.0	2.156	3.101	6.0	21.3
1 22	8 26.19	+10 23.4	2.125	3.099	3.2	21.1
2 1	8 17.44	+10 41.1	2.125	3.097	3.6	21.1
2 11	8 9.29	+11 3.2	2.153	3.094	6.6	21.3
2 21	8 2.53	+11 27.0	2.210	3.091	9.8	21.5
3 2	7 57.75	+11 49.9	2.290	3.088	12.7	21.7

410774 2009 EK_{17} 1 24.5 251°.47 0°.1/24.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.39	+17 16.8	1.790	2.623	13.9	22.0
1 2	8 44.71	+17 46.2	1.701	2.610	10.2	21.7
1 12	8 36.54	+18 25.1	1.637	2.597	5.9	21.4
1 22	8 26.63	+19 9.2	1.600	2.583	1.2	21.1
2 1	8 16.10	+19 53.3	1.592	2.569	3.6	21.2
2 11	8 6.28	+20 32.5	1.613	2.554	8.3	21.5
2 21	7 58.32	+21 3.5	1.659	2.539	12.6	21.7
3 2	7 53.08	+21 25.0	1.728	2.524	16.2	21.9

49579 1999 CL_{124} 1 24.5 303°.06 9°.2/19.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.51	+41 10.2	1.747	2.578	14.2	18.4
1 2	8 48.96	+42 36.8	1.687	2.574	11.7	18.2
1 12	8 39.15	+43 51.0	1.652	2.571	9.7	18.1
1 22	8 27.16	+44 42.5	1.642	2.567	9.3	18.0
2 1	8 14.63	+45 3.9	1.657	2.564	10.7	18.1
2 11	8 3.40	+44 53.7	1.697	2.561	13.2	18.3
2 21	7 54.92	+44 15.6	1.759	2.558	15.8	18.4
3 2	7 50.04	+43 16.3	1.840	2.555	18.2	18.6

33098 1997 YG_{7} 1 24.5 282°.32 1°.1/23.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.52	+18 8.2	1.847	2.686	13.3	18.6
1 2	8 42.60	+19 15.2	1.761	2.674	9.7	18.3
1 12	8 35.33	+20 33.3	1.700	2.661	5.5	18.0
1 22	8 26.39	+21 56.4	1.666	2.649	1.4	17.7
2 1	8 16.83	+23 17.4	1.663	2.637	4.0	17.9
2 11	8 7.91	+24 29.5	1.688	2.625	8.4	18.1
2 21	8 0.73	+25 28.6	1.739	2.613	12.5	18.3
3 2	7 56.12	+26 12.9	1.812	2.601	15.9	18.5

519124 2010 MP_{45} 1 24.5 280°.28 1°.5/23.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.37	+22 7.6	2.232	3.068	11.4	21.8
1 2	8 42.03	+22 40.0	2.153	3.065	8.2	21.6
1 12	8 34.76	+23 15.8	2.101	3.061	4.7	21.3
1 22	8 26.24	+23 50.9	2.076	3.058	1.6	21.1
2 1	8 17.38	+24 21.2	2.082	3.055	3.6	21.3
2 11	8 9.18	+24 43.6	2.117	3.051	7.2	21.5
2 21	8 2.51	+24 56.6	2.179	3.048	10.5	21.7
3 2	7 58.00	+25 0.2	2.264	3.045	13.3	21.9

395132 2010 AS_{15} 1 24.5 14°.53 4°.4/22.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.42	+25 2.1	1.211	2.074	17.1	20.6
1 2	8 46.32	+26 14.9	1.152	2.075	12.6	20.3
1 12	8 37.78	+27 32.5	1.115	2.077	7.6	20.1
1 22	8 26.91	+28 44.1	1.102	2.079	4.4	19.9
2 1	8 15.44	+29 39.5	1.114	2.081	7.1	20.1
2 11	8 5.36	+30 12.5	1.152	2.084	12.0	20.3
2 21	7 58.20	+30 22.7	1.211	2.087	16.6	20.6
3 2	7 54.85	+30 13.1	1.289	2.091	20.4	20.9

414505 2009 SL_{12} 1 24.5 18°.30 3°.8/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.64	+ 7 46.2	1.733	2.548	15.1	20.9
1 2	8 41.80	+ 7 50.8	1.658	2.549	11.6	20.6
1 12	8 34.75	+ 8 12.5	1.607	2.551	7.8	20.4
1 22	8 26.25	+ 8 49.6	1.581	2.553	4.4	20.2
2 1	8 17.36	+ 9 38.6	1.584	2.556	4.6	20.2
2 11	8 9.26	+10 34.1	1.614	2.558	8.1	20.4
2 21	8 2.95	+11 30.9	1.669	2.561	11.9	20.7
3 2	7 59.11	+12 24.1	1.748	2.564	15.2	20.9

155462 1998 RG_{42} 1 24.5 81°.33 0°.7/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.24	+19 59.9	1.361	2.206	16.7	20.0
1 2	8 48.38	+20 13.1	1.308	2.223	12.1	19.7
1 12	8 38.59	+20 32.5	1.278	2.240	6.9	19.5
1 22	8 27.02	+20 52.6	1.274	2.257	1.5	19.2
2 1	8 15.26	+21 8.3	1.297	2.273	4.4	19.4
2 11	8 4.98	+21 16.3	1.347	2.290	9.5	19.8
2 21	7 57.37	+21 15.5	1.422	2.306	14.0	20.1
3 2	7 53.11	+21 6.6	1.516	2.322	17.7	20.4

108799 2001 OX_{70} 1 24.5 93°.05 2°.6/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.23	+ 8 22.0	1.868	2.677	14.3	19.6
1 2	8 42.73	+ 9 9.4	1.803	2.694	10.8	19.4
1 12	8 35.18	+10 13.8	1.762	2.710	6.9	19.2
1 22	8 26.33	+11 31.1	1.749	2.726	3.2	19.0
2 1	8 17.20	+12 55.6	1.766	2.742	3.6	19.1
2 11	8 8.90	+14 20.4	1.813	2.757	7.3	19.3
2 21	8 2.32	+15 39.9	1.886	2.772	11.0	19.6
3 2	7 58.09	+16 50.1	1.984	2.787	14.2	19.8

378858 2008 TT_{74} 1 24.5 194°.75 0°.6/24.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 48.18	+19 51.0	2.268	3.098	11.4	21.6
1 2	8 42.55	+20 14.9	2.189	3.097	8.3	21.4
1 12	8 35.04	+20 43.4	2.136	3.096	4.7	21.2
1 22	8 26.31	+21 13.1	2.112	3.095	1.0	20.9
2 1	8 17.27	+21 40.2	2.118	3.094	3.1	21.1
2 11	8 8.90	+22 1.8	2.154	3.092	6.8	21.3
2 21	8 2.02	+22 16.2	2.217	3.090	10.2	21.5
3 2	7 57.26	+22 23.0	2.304	3.088	13.0	21.7

308029 2004 RO_{346} 1 24.5 76°.65 7°.1/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.57	− 1 17.1	1.984	2.752	15.1	20.2
1 2	8 41.48	− 1 46.0	1.909	2.756	12.5	20.0
1 12	8 34.47	− 1 54.3	1.856	2.761	9.7	19.9
1 22	8 26.20	− 1 41.0	1.829	2.766	7.6	19.8
2 1	8 17.62	− 1 7.2	1.828	2.771	7.2	19.8
2 11	8 9.72	− 0 16.7	1.854	2.777	8.9	19.9
2 21	8 3.37	+ 0 44.9	1.907	2.782	11.5	20.0
3 2	7 59.20	+ 1 51.5	1.982	2.787	14.1	20.2

152258 2005 SZ_{129} 1 24.5 165°.40 2°.4/23.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.83	+23 52.7	1.739	2.575	14.1	21.1
1 2	8 48.60	+24 28.6	1.670	2.580	10.3	20.8
1 12	8 38.70	+25 6.8	1.625	2.585	6.0	20.6
1 22	8 27.08	+25 40.9	1.609	2.589	2.5	20.4
2 1	8 15.08	+26 5.5	1.622	2.592	4.8	20.5
2 11	8 4.16	+26 17.3	1.664	2.595	9.0	20.8
2 21	7 55.49	+26 16.0	1.732	2.597	13.0	21.0
3 2	7 49.82	+26 3.5	1.821	2.598	16.3	21.3

436285 2010 CA_{214} 1 24.5 214°.46 4°.9/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.04	− 0 12.3	2.814	3.570	11.4	21.3
1 2	8 39.24	− 0 10.2	2.721	3.565	9.3	21.2
1 12	8 33.03	+ 0 7.2	2.652	3.559	7.1	21.0
1 22	8 25.90	+ 0 39.9	2.611	3.553	5.3	20.9
2 1	8 18.49	+ 1 26.2	2.598	3.547	5.0	20.8
2 11	8 11.49	+ 2 23.1	2.616	3.541	6.5	20.9
2 21	8 5.52	+ 3 26.5	2.662	3.534	8.7	21.1
3 2	8 1.10	+ 4 32.4	2.733	3.527	11.0	21.2

322118 2010 VJ_{165} 1 24.5 52°.40 2°.0/23.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.27	+22 34.8	1.723	2.567	13.8	20.9
1 2	8 44.56	+23 10.0	1.655	2.570	10.0	20.7
1 12	8 36.38	+23 49.2	1.612	2.573	5.8	20.4
1 22	8 26.61	+24 26.6	1.595	2.576	2.1	20.2
2 1	8 16.47	+24 56.9	1.607	2.580	4.5	20.4
2 11	8 7.31	+25 16.3	1.647	2.583	8.7	20.6
2 21	8 0.20	+25 23.8	1.712	2.586	12.6	20.9
3 2	7 55.87	+25 20.0	1.799	2.590	15.9	21.1

194058 2001 SA_{123} 1 24.5 128°.85 0°.6/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.10	+16 50.9	1.625	2.457	15.1	20.9
1 2	8 47.28	+17 0.8	1.561	2.468	11.1	20.7
1 12	8 37.90	+17 19.1	1.520	2.479	6.5	20.5
1 22	8 26.92	+17 42.1	1.506	2.489	1.5	20.2
2 1	8 15.63	+18 5.2	1.522	2.499	3.7	20.3
2 11	8 5.47	+18 24.7	1.565	2.508	8.4	20.7
2 21	7 57.52	+18 38.5	1.635	2.517	12.6	20.9
3 2	7 52.50	+18 45.7	1.726	2.525	16.1	21.2

203133 2000 SO_{369} 1 24.5 150°.75 1°.9/23.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.28	+22 57.0	1.780	2.616	13.8	20.5
1 2	8 47.37	+23 23.5	1.712	2.623	10.0	20.3
1 12	8 37.95	+23 52.6	1.669	2.629	5.8	20.1
1 22	8 26.94	+24 18.9	1.654	2.635	2.0	19.8
2 1	8 15.61	+24 37.7	1.668	2.640	4.3	20.0
2 11	8 5.33	+24 46.0	1.711	2.645	8.6	20.3
2 21	7 57.19	+24 43.4	1.780	2.649	12.4	20.5
3 2	7 51.88	+24 31.1	1.871	2.653	15.7	20.7

79113 1981 EP_{45} 1 24.5 232°.25 3°.6/22.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.35	+31 34.9	2.728	3.556	9.8	20.4
1 2	8 43.99	+32 3.4	2.646	3.547	7.3	20.2
1 12	8 35.82	+32 27.9	2.590	3.539	4.9	20.0
1 22	8 26.50	+32 44.4	2.564	3.529	3.6	19.9
2 1	8 16.89	+32 49.4	2.568	3.520	4.9	20.0
2 11	8 7.93	+32 41.7	2.602	3.510	7.3	20.1
2 21	8 0.41	+32 21.7	2.664	3.500	9.9	20.3
3 2	7 54.92	+31 51.1	2.748	3.490	12.2	20.4

23980 Ogden 1 24.5 104°.81 1°.0/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.65	+18 30.1	1.653	2.491	14.6	18.2
1 2	8 45.53	+19 26.2	1.594	2.506	10.6	18.0
1 12	8 36.92	+20 30.9	1.559	2.521	6.0	17.7
1 22	8 26.74	+21 37.7	1.552	2.535	1.4	17.5
2 1	8 16.25	+22 39.7	1.574	2.549	4.0	17.7
2 11	8 6.81	+23 31.3	1.624	2.563	8.6	18.0
2 21	7 59.49	+24 10.0	1.700	2.576	12.6	18.3
3 2	7 55.01	+24 35.3	1.798	2.589	15.9	18.5

8735 Yoshiosakai 1 24.5 66°.16 0°.9/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 48.14	+20 24.3	2.160	2.994	11.8	17.8
1 2	8 42.43	+20 53.5	2.105	3.015	8.5	17.6
1 12	8 34.91	+21 26.7	2.075	3.036	4.8	17.4
1 22	8 26.31	+21 59.8	2.074	3.056	1.2	17.2
2 1	8 17.56	+22 29.1	2.103	3.077	3.2	17.4
2 11	8 9.66	+22 51.7	2.161	3.098	6.8	17.6
2 21	8 3.37	+23 6.2	2.246	3.119	10.1	17.9
3 2	7 59.22	+23 12.5	2.355	3.140	12.8	18.1

274662 2008 TU_{168} 1 24.5 139°.39 4°.6/21.3 18

12 23	8 50.52	+32 24.3	2.380	3.213	10.8	20.8
1 2	8 44.32	+33 22.5	2.317	3.219	8.2	20.6
1 12	8 36.09	+34 16.4	2.280	3.225	5.7	20.5
1 22	8 26.57	+35 0.3	2.272	3.231	4.6	20.4
2 1	8 16.77	+35 29.5	2.294	3.237	6.0	20.5
2 11	8 7.77	+35 41.9	2.344	3.242	8.5	20.7
2 21	8 0.44	+35 38.2	2.420	3.248	11.1	20.9
3 2	7 55.42	+35 20.6	2.517	3.252	13.3	21.0

518937 2010 GT_{113} 1 24.5 359°.12 2°.8/26.0 18

12 23	8 45.37	+10 51.8	1.832	2.656	14.0	20.7
1 2	8 40.82	+10 49.1	1.756	2.654	10.6	20.5
1 12	8 34.19	+10 59.5	1.703	2.653	6.8	20.3
1 22	8 26.20	+11 21.1	1.676	2.653	3.4	20.1
2 1	8 17.85	+11 51.1	1.678	2.653	3.9	20.1
2 11	8 10.24	+12 25.5	1.707	2.653	7.6	20.3
2 21	8 4.31	+13 0.3	1.762	2.654	11.3	20.5
3 2	8 0.71	+13 32.2	1.840	2.656	14.6	20.8

10467 Peterbus 1 24.5 138°.65 2°.7/26.2 18

12 23	8 48.83	+ 9 50.6	2.188	2.993	12.7	19.2
1 2	8 42.95	+ 9 53.7	2.115	3.003	9.6	19.0
1 12	8 35.25	+10 8.5	2.066	3.012	6.2	18.9
1 22	8 26.41	+10 33.3	2.046	3.020	3.2	18.7
2 1	8 17.30	+11 5.4	2.056	3.028	3.6	18.7
2 11	8 8.90	+11 41.1	2.095	3.036	6.7	18.9
2 21	8 2.00	+12 17.1	2.162	3.043	10.0	19.1
3 2	7 57.18	+12 50.7	2.253	3.050	12.9	19.3

108526 2001 LY_{1} 1 24.5 205°.81 2°.6/25.6 18

12 23	8 53.34	+12 17.2	1.736	2.553	14.9	20.4
1 2	8 46.80	+12 9.1	1.652	2.549	11.3	20.1
1 12	8 37.73	+12 12.7	1.592	2.544	7.1	19.9
1 22	8 26.95	+12 26.2	1.560	2.538	3.1	19.6
2 1	8 15.65	+12 46.6	1.557	2.532	4.1	19.6
2 11	8 5.19	+13 10.2	1.582	2.525	8.4	19.9
2 21	7 56.70	+13 33.7	1.634	2.517	12.6	20.1
3 2	7 50.99	+13 54.4	1.708	2.509	16.2	20.3

354915 2006 DJ_{37} 1 24.5 34°.59 3°.7/23.2 18

12 23	8 53.94	+26 27.5	1.323	2.178	16.4	20.7
1 2	8 47.82	+26 57.3	1.264	2.183	12.1	20.4
1 12	8 38.48	+27 26.7	1.228	2.189	7.3	20.2
1 22	8 27.10	+27 48.1	1.217	2.195	3.8	20.0
2 1	8 15.36	+27 55.3	1.232	2.201	6.2	20.1
2 11	8 5.09	+27 45.7	1.273	2.207	10.8	20.4
2 21	7 57.64	+27 20.9	1.337	2.214	15.2	20.7
3 2	7 53.77	+26 44.2	1.421	2.222	18.9	21.0

181248 2005 UL_{145} 1 24.5 198°.32 1°.2/25.4 17

12 23	8 45.10	+13 49.5	2.928	3.739	9.6	20.5
1 2	8 39.96	+13 54.8	2.842	3.737	7.2	20.4
1 12	8 33.43	+14 6.7	2.783	3.735	4.4	20.2
1 22	8 26.03	+14 23.5	2.753	3.732	1.7	20.0
2 1	8 18.40	+14 43.3	2.754	3.730	2.4	20.0
2 11	8 11.22	+15 3.7	2.786	3.727	5.3	20.2
2 21	8 5.12	+15 22.9	2.847	3.724	8.0	20.4
3 2	8 0.56	+15 39.4	2.932	3.721	10.4	20.6

166062 2002 CF_{60} 1 24.5 276°.48 2°.4/23.5 18

12 23	8 52.53	+23 26.4	1.549	2.396	14.9	20.2
1 2	8 46.71	+23 58.4	1.465	2.382	11.0	19.9
1 12	8 37.91	+24 34.4	1.406	2.367	6.5	19.6
1 22	8 27.02	+25 8.2	1.372	2.353	2.5	19.3
2 1	8 15.43	+25 33.3	1.367	2.339	5.1	19.5
2 11	8 4.77	+25 45.5	1.388	2.324	10.0	19.7
2 21	7 56.43	+25 43.7	1.434	2.310	14.5	19.9
3 2	7 51.34	+25 29.4	1.500	2.295	18.3	20.1

416878 2005 QA_{30} 1 24.5 141°.62 2°.3/23.3 18

12 23	8 54.56	+26 20.4	2.362	3.187	11.2	21.3
1 2	8 47.00	+26 37.0	2.295	3.200	8.1	21.1
1 12	8 37.51	+26 52.2	2.256	3.213	4.9	20.9
1 22	8 26.86	+27 1.7	2.246	3.224	2.4	20.8
2 1	8 16.06	+27 2.6	2.268	3.235	4.0	20.9
2 11	8 6.17	+26 53.7	2.321	3.246	7.2	21.1
2 21	7 58.00	+26 35.3	2.401	3.255	10.2	21.3
3 2	7 52.12	+26 9.2	2.505	3.265	12.8	21.5

426307 2012 TP_{165} 1 24.5 213°.37 0°.1/24.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 46.80	+18 2.7	2.663	3.485	10.2	21.7
1 2	8 41.37	+18 28.4	2.576	3.480	7.4	21.5
1 12	8 34.33	+18 59.5	2.515	3.474	4.3	21.3
1 22	8 26.24	+19 33.0	2.484	3.467	0.9	21.0
2 1	8 17.83	+20 5.9	2.484	3.460	2.6	21.2
2 11	8 9.93	+20 35.2	2.515	3.453	5.9	21.4
2 21	8 3.24	+20 59.0	2.574	3.446	9.0	21.5
3 2	7 58.34	+21 16.3	2.657	3.438	11.6	21.7

449104 2012 VH_{35} 1 24.5 20°.14 6°.9/21.4 17

12 23	8 52.30	+29 50.0	1.163	2.029	17.5	20.7
1 2	8 47.23	+31 21.6	1.110	2.032	13.1	20.4
1 12	8 38.44	+32 51.9	1.079	2.035	8.9	20.2
1 22	8 27.14	+34 7.6	1.072	2.039	7.0	20.1
2 1	8 15.26	+34 57.7	1.089	2.044	9.3	20.3
2 11	8 4.97	+35 17.3	1.130	2.049	13.6	20.5
2 21	7 57.88	+35 8.7	1.192	2.055	17.7	20.8
3 2	7 54.85	+34 37.3	1.270	2.061	21.3	21.0

115359 2003 SA_{250} 1 24.5 99°.90 0°.2/24.4 18 A

12 23	8 48.41	+18 36.1	2.141	2.972	12.0	19.6
1 2	8 42.74	+18 57.5	2.072	2.980	8.7	19.4
1 12	8 35.17	+19 24.7	2.028	2.988	5.0	19.2
1 22	8 26.41	+19 53.9	2.013	2.996	1.0	19.0
2 1	8 17.40	+20 21.6	2.028	3.004	3.1	19.1
2 11	8 9.15	+20 44.5	2.072	3.012	6.9	19.4
2 21	8 2.49	+21 1.0	2.143	3.020	10.3	19.6
3 2	7 58.02	+21 10.3	2.237	3.027	13.2	19.8

418359 2008 GL_{104} 1 24.5 128°.54 0°.6/24.2 18

12 23	8 49.63	+18 45.3	1.972	2.805	12.8	21.6
1 2	8 43.81	+19 23.8	1.904	2.813	9.3	21.4
1 12	8 35.87	+20 9.1	1.860	2.820	5.3	21.1
1 22	8 26.57	+20 56.5	1.845	2.828	1.1	20.9
2 1	8 16.96	+21 41.1	1.859	2.835	3.4	21.0
2 11	8 8.16	+22 18.6	1.903	2.841	7.5	21.3
2 21	8 1.11	+22 47.0	1.973	2.848	11.2	21.5
3 2	7 56.46	+23 5.4	2.066	2.854	14.2	21.8

248118 2004 RB_{193} 1 24.5 113°.89 2°.6/23.2 18

12 23	8 51.94	+26 4.5	2.017	2.854	12.4	20.3
1 2	8 45.47	+26 28.0	1.950	2.860	9.0	20.1
1 12	8 36.79	+26 50.9	1.908	2.867	5.4	19.9
1 22	8 26.75	+27 8.4	1.895	2.873	2.7	19.8
2 1	8 16.47	+27 16.6	1.911	2.879	4.5	19.9
2 11	8 7.13	+27 13.5	1.956	2.885	8.1	20.1
2 21	7 59.68	+26 59.3	2.028	2.891	11.4	20.3
3 2	7 54.75	+26 35.7	2.122	2.896	14.3	20.6

79737 1998 SD_{138} 1 24.5 169°.19 1°.6/23.7 18

12 23	8 54.44	+21 29.4	1.813	2.646	13.7	20.3
1 2	8 47.53	+22 7.6	1.741	2.651	10.0	20.1
1 12	8 38.10	+22 50.6	1.694	2.655	5.7	19.8
1 22	8 27.04	+23 32.6	1.676	2.658	1.8	19.6
2 1	8 15.58	+24 8.0	1.688	2.660	4.2	19.7
2 11	8 5.08	+24 33.0	1.728	2.662	8.5	20.0
2 21	7 56.64	+24 46.3	1.795	2.663	12.4	20.2
3 2	7 51.02	+24 48.6	1.883	2.663	15.7	20.5

140855 2001 US_{219} 1 24.5 154°.24 4°.1/21.1 18

12 23	8 48.08	+30 23.4	2.605	3.439	10.0	19.6
1 2	8 42.49	+31 39.8	2.537	3.443	7.5	19.4
1 12	8 35.06	+32 54.5	2.498	3.446	5.1	19.3
1 22	8 26.41	+34 1.7	2.487	3.449	4.1	19.2
2 1	8 17.41	+34 56.3	2.508	3.452	5.5	19.3
2 11	8 9.00	+35 35.3	2.557	3.455	7.9	19.5
2 21	8 2.02	+35 58.3	2.632	3.458	10.4	19.7
3 2	7 57.08	+36 6.4	2.730	3.460	12.5	19.8

251750 1998 YN_{21} 1 24.5 316°.63 0°.5/24.3 18

12 23	8 47.78	+17 29.0	1.635	2.478	14.5	20.5
1 2	8 42.98	+18 14.3	1.557	2.471	10.6	20.2
1 12	8 35.65	+19 10.6	1.502	2.463	6.1	19.9
1 22	8 26.57	+20 12.5	1.473	2.457	1.2	19.6
2 1	8 16.94	+21 13.5	1.473	2.450	3.9	19.7
2 11	8 8.11	+22 7.5	1.501	2.444	8.7	20.0
2 21	8 1.26	+22 50.4	1.554	2.438	13.1	20.3
3 2	7 57.21	+23 20.7	1.627	2.432	16.7	20.5

420675 2012 KW_{8} 1 24.5 187°.34 1°.9/23.3 18

12 23	8 48.60	+21 59.2	1.958	2.798	12.6	21.3
1 2	8 43.21	+22 52.2	1.884	2.798	9.1	21.1
1 12	8 35.60	+23 50.2	1.836	2.797	5.3	20.9
1 22	8 26.54	+24 47.5	1.816	2.797	2.0	20.7
2 1	8 17.07	+25 38.4	1.826	2.797	4.2	20.8
2 11	8 8.36	+26 18.5	1.864	2.797	8.1	21.1
2 21	8 1.41	+26 45.8	1.929	2.797	11.7	21.3
3 2	7 56.93	+27 0.3	2.015	2.796	14.8	21.5

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
113200 2002 RP_{111}			1 24.5 117°.40		2°.8/23.3 18	
	h m	° ′			°	m
12 23	8 56.98	+24 11.1	1.604	2.443	14.9	20.4
1 2	8 49.46	+24 55.7	1.550	2.462	10.8	20.2
1 12	8 39.20	+25 42.0	1.520	2.480	6.3	20.0
1 22	8 27.26	+26 22.9	1.518	2.497	2.8	19.8
2 1	8 15.12	+26 52.3	1.545	2.514	5.1	20.0
2 11	8 4.30	+27 7.0	1.600	2.530	9.4	20.3
2 21	7 55.96	+27 7.3	1.680	2.546	13.3	20.5
3 2	7 50.77	+26 55.4	1.782	2.560	16.5	20.8
145565 2006 OH_{10}			1 24.5 126°.40		1°.0/23.8 18	
12 23	8 47.06	+20 45.1	2.467	3.298	10.6	20.6
1 2	8 41.62	+21 20.0	2.396	3.304	7.7	20.4
1 12	8 34.49	+21 58.8	2.351	3.311	4.4	20.2
1 22	8 26.29	+22 37.7	2.335	3.317	1.2	20.0
2 1	8 17.85	+23 13.0	2.350	3.323	3.1	20.2
2 11	8 10.04	+23 41.7	2.395	3.329	6.4	20.4
2 21	8 3.60	+24 2.3	2.467	3.335	9.5	20.6
3 2	7 59.09	+24 14.4	2.563	3.341	12.1	20.8
171205 2005 JD_{61}			1 24.5 6°.60		3°.0/22.5 17	
12 23	8 46.76	+24 27.4	2.011	2.856	12.1	19.6
1 2	8 41.88	+25 38.1	1.941	2.856	8.8	19.4
1 12	8 34.85	+26 52.1	1.897	2.857	5.3	19.2
1 22	8 26.40	+28 3.1	1.881	2.858	3.0	19.1
2 1	8 17.53	+29 4.7	1.894	2.859	5.0	19.2
2 11	8 9.40	+29 52.3	1.936	2.860	8.4	19.4
2 21	8 2.96	+30 24.2	2.003	2.862	11.8	19.6
3 2	7 58.92	+30 40.9	2.093	2.864	14.6	19.8
275540 1998 SR_{30}			1 24.5 69°.42		0°.7/24.9 18	
12 23	8 47.55	+15 35.1	2.010	2.838	12.8	21.0
1 2	8 42.24	+15 55.7	1.939	2.845	9.4	20.8
1 12	8 34.94	+16 25.0	1.894	2.851	5.5	20.6
1 22	8 26.40	+16 59.8	1.876	2.858	1.5	20.3
2 1	8 17.57	+17 36.1	1.888	2.865	3.1	20.5
2 11	8 9.50	+18 10.0	1.929	2.872	7.0	20.7
2 21	8 3.07	+18 38.8	1.996	2.879	10.7	21.0
3 2	7 58.88	+19 0.8	2.087	2.886	13.7	21.2
147288 2003 AJ_{32}			1 24.5 47°.63		0°.6/24.3 18	
12 23	8 50.11	+19 12.4	1.593	2.436	14.8	19.9
1 2	8 44.52	+19 34.6	1.529	2.444	10.7	19.6
1 12	8 36.42	+20 3.9	1.490	2.451	6.1	19.4
1 22	8 26.72	+20 35.4	1.476	2.460	1.3	19.1
2 1	8 16.70	+21 4.0	1.491	2.468	3.9	19.3
2 11	8 7.75	+21 25.8	1.534	2.477	8.6	19.6
2 21	8 0.94	+21 38.8	1.601	2.485	12.7	19.9
3 2	7 56.98	+21 42.7	1.690	2.494	16.2	20.1
33898 Kendra			1 24.5 165°.85		0°.2/24.6 18	
12 23	8 50.33	+17 36.2	2.183	3.007	12.0	20.0
1 2	8 44.16	+17 54.0	2.107	3.011	8.8	19.8
1 12	8 36.02	+18 18.1	2.056	3.015	5.1	19.6
1 22	8 26.64	+18 45.2	2.035	3.018	1.1	19.3
2 1	8 16.96	+19 11.6	2.044	3.021	3.0	19.5
2 11	8 8.01	+19 34.4	2.083	3.023	6.9	19.7
2 21	8 0.64	+19 51.5	2.149	3.025	10.4	19.9
3 2	7 55.48	+20 2.1	2.239	3.026	13.3	20.1
465174 2007 EE_{84}			1 24.6 341°.99		0°.7/24.9 18	
12 23	8 46.70	+14 50.3	1.653	2.491	14.6	21.5
1 2	8 42.11	+15 26.4	1.576	2.486	10.8	21.2
1 12	8 35.12	+16 15.4	1.523	2.482	6.4	21.0
1 22	8 26.50	+17 12.9	1.496	2.478	1.6	20.7
2 1	8 17.38	+18 13.1	1.497	2.475	3.6	20.8
2 11	8 9.06	+19 9.9	1.526	2.472	8.3	21.1
2 21	8 2.64	+19 58.9	1.580	2.470	12.6	21.3
3 2	7 58.90	+20 37.4	1.656	2.468	16.2	21.5
285059 2011 HV_{60}			1 24.6 214°.23		0°.1/24.5 18	
12 23	8 46.34	+16 33.2	2.236	3.064	11.7	20.5
1 2	8 41.32	+17 20.8	2.157	3.063	8.5	20.3
1 12	8 34.44	+18 17.0	2.103	3.062	4.9	20.1
1 22	8 26.34	+19 17.9	2.078	3.061	1.0	19.8
2 1	8 17.86	+20 18.4	2.083	3.059	3.0	19.9
2 11	8 9.99	+21 14.2	2.118	3.058	6.8	20.2
2 21	8 3.53	+22 1.9	2.181	3.057	10.2	20.4
3 2	7 59.14	+22 39.9	2.267	3.055	13.1	20.6
503296 2016 AN_{36}			1 24.6 251°.63		2°.1/25.5 17	
12 23	8 51.42	+13 30.0	2.168	2.980	12.5	21.2
1 2	8 45.11	+13 11.8	2.069	2.963	9.5	21.0
1 12	8 36.69	+13 1.1	1.994	2.945	5.9	20.7
1 22	8 26.82	+12 57.0	1.949	2.927	2.6	20.5
2 1	8 16.44	+12 57.5	1.933	2.908	3.5	20.5
2 11	8 6.63	+13 0.8	1.948	2.888	7.2	20.7
2 21	7 58.34	+13 4.7	1.990	2.869	10.9	20.9
3 2	7 52.31	+13 7.8	2.056	2.848	14.1	21.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
281055 2006 JE_{39}			1 24.6 278°.65		4°.2/26.8 17	
	h m	° ′			°	m
12 23	8 46.74	+ 6 25.5	2.202	2.998	12.9	21.0
1 2	8 41.69	+ 6 11.5	2.102	2.979	10.2	20.7
1 12	8 34.71	+ 6 11.1	2.025	2.960	7.2	20.5
1 22	8 26.41	+ 6 24.2	1.976	2.941	4.6	20.3
2 1	8 17.61	+ 6 49.3	1.955	2.921	4.7	20.3
2 11	8 9.28	+ 7 23.4	1.964	2.901	7.4	20.4
2 21	8 2.30	+ 8 2.7	1.999	2.882	10.7	20.6
3 2	7 57.37	+ 8 43.5	2.058	2.862	13.7	20.7
57223 2001 QZ_{74}			1 24.6 81°.45		3°.1/22.7 18	
12 23	8 50.23	+27 54.3	2.357	3.191	10.9	19.3
1 2	8 43.91	+28 32.5	2.305	3.213	8.0	19.1
1 12	8 35.78	+29 8.7	2.280	3.235	4.9	19.0
1 22	8 26.58	+29 38.2	2.284	3.257	3.1	18.9
2 1	8 17.28	+29 57.5	2.319	3.279	4.5	19.0
2 11	8 8.85	+30 4.8	2.382	3.301	7.4	19.2
2 21	8 2.05	+30 0.4	2.472	3.322	10.1	19.4
3 2	7 57.42	+29 45.6	2.586	3.344	12.5	19.6
402582 2006 RF_{94}			1 24.6 58°.68		0°.7/24.3 18	
12 23	8 54.16	+19 33.2	1.455	2.297	16.0	21.1
1 2	8 47.29	+19 56.4	1.416	2.330	11.5	20.9
1 12	8 37.86	+20 25.7	1.401	2.363	6.5	20.7
1 22	8 27.00	+20 55.4	1.412	2.395	1.4	20.4
2 1	8 16.19	+21 20.5	1.452	2.428	4.0	20.7
2 11	8 6.84	+21 37.5	1.519	2.461	8.7	21.1
2 21	7 59.96	+21 45.4	1.610	2.493	12.8	21.4
3 2	7 56.10	+21 44.5	1.723	2.525	16.1	21.7
101534 1998 YC_{10}			1 24.6 286°.23		2°.6/22.9 18	
12 23	8 48.03	+24 40.5	2.103	2.943	11.8	19.4
1 2	8 42.76	+25 30.6	2.023	2.936	8.6	19.2
1 12	8 35.37	+26 23.3	1.969	2.928	5.1	18.9
1 22	8 26.55	+27 13.2	1.943	2.921	2.7	18.8
2 1	8 17.28	+27 54.8	1.947	2.914	4.6	18.9
2 11	8 8.70	+28 24.6	1.980	2.906	8.1	19.1
2 21	8 1.77	+28 41.1	2.038	2.899	11.5	19.3
3 2	7 57.19	+28 44.9	2.119	2.892	14.4	19.4
272746 Paoladiomede			1 24.6 17°.77		5°.3/27.1 18	
12 23	8 45.87	+ 6 32.5	1.430	2.253	17.2	20.5
1 2	8 41.57	+ 6 12.6	1.367	2.260	13.5	20.3
1 12	8 34.79	+ 6 12.7	1.325	2.267	9.3	20.1
1 22	8 26.43	+ 6 32.5	1.308	2.276	5.9	19.9
2 1	8 17.72	+ 7 8.8	1.316	2.285	5.9	20.0
2 11	8 10.02	+ 7 56.2	1.350	2.296	9.2	20.2
2 21	8 4.39	+ 8 48.4	1.408	2.307	13.1	20.4
3 2	8 1.55	+ 9 39.5	1.487	2.319	16.7	20.7
183589 2003 SO_{284}			1 24.6 26°.56		4°.0/26.2 18	
12 23	8 49.53	+ 9 59.0	1.400	2.230	17.2	19.9
1 2	8 44.33	+ 9 38.6	1.333	2.234	13.1	19.6
1 12	8 36.43	+ 9 34.7	1.289	2.238	8.6	19.4
1 22	8 26.78	+ 9 46.1	1.269	2.244	4.6	19.2
2 1	8 16.72	+10 10.0	1.276	2.249	5.1	19.2
2 11	8 7.74	+10 41.4	1.308	2.255	9.3	19.5
2 21	8 1.01	+11 15.4	1.365	2.261	13.6	19.7
3 2	7 57.32	+11 47.6	1.442	2.268	17.4	20.0
120197 2004 DU_{37}			1 24.6 284°.73		16°.4/19.8 18	
12 23	9 14.15	+50 54.0	1.128	1.946	21.3	19.6
1 2	9 4.91	+52 22.8	1.078	1.941	18.8	19.5
1 12	8 49.31	+53 21.6	1.046	1.936	16.9	19.3
1 22	8 29.50	+53 30.6	1.034	1.931	16.4	19.3
2 1	8 9.29	+52 38.8	1.042	1.926	17.7	19.3
2 11	7 52.64	+50 50.5	1.071	1.921	20.1	19.5
2 21	7 41.83	+48 21.7	1.117	1.917	22.9	19.6
3 2	7 37.37	+45 30.2	1.179	1.912	25.7	19.8
415602 2014 QK_{345}			1 24.6 64°.18		6°.2/20.9 18	
12 23	8 52.76	+30 21.9	1.524	2.376	14.9	20.2
1 2	8 46.79	+32 5.4	1.481	2.394	11.1	20.0
1 12	8 37.87	+33 45.4	1.461	2.412	7.6	19.9
1 22	8 27.08	+35 11.1	1.469	2.431	6.2	19.8
2 1	8 15.96	+36 13.6	1.503	2.450	8.2	20.0
2 11	8 6.17	+36 49.2	1.564	2.469	11.5	20.2
2 21	7 58.94	+36 59.5	1.648	2.487	14.8	20.5
3 2	7 55.01	+36 48.9	1.751	2.506	17.6	20.7
167865 2005 EV_{22}			1 24.6 357°.60		4°.2/26.5 18	
12 23	8 45.25	+ 8 58.0	1.196	2.039	18.6	19.8
1 2	8 41.65	+ 8 57.8	1.128	2.035	14.4	19.5
1 12	8 35.11	+ 9 19.7	1.080	2.032	9.5	19.2
1 22	8 26.55	+10 2.0	1.055	2.031	5.0	19.0
2 1	8 17.40	+10 59.6	1.055	2.030	5.4	19.0
2 11	8 9.33	+12 4.8	1.079	2.031	10.0	19.3
2 21	8 3.67	+13 9.7	1.125	2.033	14.9	19.5
3 2	8 1.31	+14 7.9	1.192	2.036	19.2	19.8

368628 2004 UJ_{10} 1 24.6 126°.05 1°.4/25.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 47.99	+13 12.0	2.087	2.907	12.7	21.8
1 2	8 42.52	+13 33.4	2.014	2.913	9.4	21.6
1 12	8 35.12	+14 5.2	1.965	2.919	5.7	21.4
1 22	8 26.50	+14 44.6	1.945	2.926	2.0	21.1
2 1	8 17.58	+15 27.6	1.955	2.932	3.1	21.2
2 11	8 9.37	+16 10.3	1.994	2.937	6.8	21.4
2 21	8 2.73	+16 49.1	2.060	2.943	10.4	21.7
3 2	7 58.25	+17 22.0	2.150	2.948	13.4	21.9

10042 Budstewart 1 24.6 106°.56 2°.1/23.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 56.26	+24 58.3	1.953	2.784	13.0	17.5
1 2	8 48.48	+25 8.6	1.897	2.804	9.4	17.4
1 12	8 38.46	+25 18.1	1.866	2.824	5.5	17.2
1 22	8 27.17	+25 22.6	1.863	2.844	2.2	17.0
2 1	8 15.80	+25 18.7	1.892	2.862	4.1	17.1
2 11	8 5.59	+25 5.3	1.949	2.881	7.9	17.4
2 21	7 57.46	+24 43.2	2.034	2.899	11.3	17.7
3 2	7 51.99	+24 14.2	2.142	2.916	14.2	17.9

294560 2007 YY_{37} 1 24.6 153°.86 0°.1/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.39	+18 28.2	2.655	3.478	10.2	21.2
1 2	8 41.74	+18 34.8	2.577	3.481	7.4	21.0
1 12	8 34.54	+18 45.5	2.526	3.484	4.3	20.8
1 22	8 26.37	+18 58.0	2.504	3.487	0.9	20.6
2 1	8 17.99	+19 9.9	2.514	3.490	2.5	20.7
2 11	8 10.18	+19 19.1	2.553	3.493	5.8	20.9
2 21	8 3.65	+19 24.4	2.621	3.495	8.8	21.1
3 2	7 58.90	+19 25.2	2.713	3.497	11.3	21.3

202345 2005 EX_{144} 1 24.6 187°.43 0°.6/24.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.58	+19 41.1	2.356	3.186	11.1	21.1
1 2	8 42.12	+20 8.7	2.278	3.186	8.0	20.9
1 12	8 34.87	+20 41.0	2.225	3.186	4.6	20.7
1 22	8 26.46	+21 14.6	2.202	3.185	1.0	20.4
2 1	8 17.74	+21 45.7	2.209	3.184	3.0	20.5
2 11	8 9.65	+22 11.5	2.246	3.183	6.6	20.8
2 21	8 2.98	+22 30.0	2.310	3.182	9.8	21.0
3 2	7 58.32	+22 40.7	2.398	3.181	12.6	21.2

304849 2007 RR_{55} 1 24.6 250°.43 1°.3/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.70	+15 14.9	1.686	2.515	14.7	20.8
1 2	8 45.80	+15 17.0	1.599	2.505	11.0	20.5
1 12	8 37.30	+15 29.1	1.537	2.494	6.6	20.2
1 22	8 27.01	+15 48.2	1.501	2.483	2.1	19.9
2 1	8 16.12	+16 10.7	1.494	2.471	3.7	20.0
2 11	8 6.03	+16 32.7	1.515	2.460	8.5	20.2
2 21	7 57.93	+16 51.2	1.562	2.448	12.9	20.5
3 2	7 52.67	+17 4.4	1.630	2.435	16.7	20.7

21067 1991 PY_{1} 1 24.6 191°.74 0°.4/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.58	+17 20.5	1.919	2.748	13.2	19.3
1 2	8 44.70	+18 6.9	1.840	2.747	9.7	19.1
1 12	8 36.54	+19 2.6	1.786	2.745	5.6	18.8
1 22	8 26.85	+20 2.6	1.760	2.743	1.1	18.5
2 1	8 16.69	+21 1.2	1.765	2.741	3.5	18.7
2 11	8 7.26	+21 53.2	1.799	2.738	7.8	18.9
2 21	7 59.61	+22 35.3	1.859	2.734	11.7	19.1
3 2	7 54.47	+23 6.3	1.942	2.730	15.0	19.4

88971 2001 TS_{58} 1 24.6 164°.44 1°.0/24.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.84	+20 37.1	1.986	2.819	12.7	19.6
1 2	8 44.76	+21 2.6	1.912	2.822	9.2	19.4
1 12	8 36.49	+21 32.7	1.864	2.824	5.3	19.1
1 22	8 26.82	+22 3.0	1.844	2.826	1.3	18.9
2 1	8 16.81	+22 29.4	1.853	2.828	3.6	19.0
2 11	8 7.62	+22 48.5	1.892	2.830	7.6	19.3
2 21	8 0.22	+22 58.9	1.958	2.831	11.3	19.5
3 2	7 55.26	+23 0.7	2.046	2.832	14.4	19.7

128863 2004 SD_{31} 1 24.6 87°.42 1°.4/25.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.20	+13 21.7	1.962	2.785	13.2	20.1
1 2	8 42.74	+13 43.3	1.895	2.796	9.8	19.9
1 12	8 35.28	+14 15.7	1.852	2.807	5.9	19.6
1 22	8 26.57	+14 55.8	1.838	2.818	2.1	19.4
2 1	8 17.60	+15 39.3	1.852	2.829	3.2	19.5
2 11	8 9.42	+16 22.0	1.896	2.841	7.1	19.8
2 21	8 2.91	+17 0.4	1.967	2.851	10.7	20.0
3 2	7 58.68	+17 32.4	2.061	2.862	13.8	20.2

234499 2001 TS_{95} 1 24.6 115°.02 0°.9/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.63	+20 12.9	1.682	2.515	14.6	21.2
1 2	8 48.35	+20 37.7	1.625	2.534	10.6	20.9
1 12	8 38.55	+21 7.5	1.593	2.553	6.0	20.7
1 22	8 27.25	+21 37.2	1.588	2.570	1.4	20.4
2 1	8 15.75	+22 1.9	1.612	2.588	3.9	20.7
2 11	8 5.44	+22 18.2	1.666	2.604	8.4	21.0
2 21	7 57.40	+22 25.3	1.745	2.620	12.4	21.2
3 2	7 52.25	+22 23.5	1.846	2.635	15.7	21.5

151200 2001 YP_{15} 1 24.6 310°.81 1°.4/23.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 48.29	+20 34.7	1.678	2.524	14.0	19.9
1 2	8 43.42	+21 12.4	1.594	2.510	10.3	19.7
1 12	8 35.99	+21 57.5	1.535	2.497	5.9	19.4
1 22	8 26.77	+22 44.5	1.502	2.484	1.7	19.1
2 1	8 16.94	+23 27.4	1.497	2.472	4.3	19.2
2 11	8 7.89	+24 1.1	1.520	2.459	8.9	19.5
2 21	8 0.81	+24 23.1	1.567	2.447	13.2	19.7
3 2	7 56.55	+24 32.9	1.635	2.436	16.8	19.9

68556 2001 XW_{93} 1 24.6 355°.17 1°.7/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.91	+13 33.2	2.033	2.858	12.7	19.9
1 2	8 41.11	+13 34.9	1.954	2.856	9.5	19.7
1 12	8 34.38	+13 46.2	1.900	2.854	5.8	19.4
1 22	8 26.40	+14 5.2	1.873	2.853	2.3	19.2
2 1	8 18.08	+14 28.8	1.875	2.852	3.2	19.3
2 11	8 10.45	+14 53.8	1.906	2.851	7.0	19.5
2 21	8 4.36	+15 17.3	1.963	2.851	10.6	19.7
3 2	8 0.43	+15 37.2	2.044	2.851	13.7	19.9

26782 4174 $T\text{-}_{2}$ 1 24.6 164°.23 0°.3/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.56	+16 31.4	2.175	3.002	12.0	19.8
1 2	8 42.22	+16 57.4	2.097	3.003	8.8	19.6
1 12	8 34.99	+17 31.2	2.045	3.004	5.1	19.4
1 22	8 26.53	+18 9.4	2.022	3.005	1.2	19.1
2 1	8 17.74	+18 48.0	2.028	3.006	2.9	19.2
2 11	8 9.62	+19 23.3	2.064	3.006	6.8	19.5
2 21	8 3.00	+19 52.8	2.128	3.007	10.3	19.7
3 2	7 58.50	+20 15.1	2.214	3.007	13.2	19.9

250657 2005 MQ_{3} 1 24.6 107°.73 13°.2/ 5.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.35	−23 40.8	2.227	2.824	17.9	20.1
1 2	8 43.45	−24 41.3	2.169	2.845	16.5	20.0
1 12	8 35.65	−25 10.7	2.127	2.864	15.1	20.0
1 22	8 26.66	−25 5.1	2.104	2.884	14.0	19.9
2 1	8 17.42	−24 23.5	2.101	2.903	13.3	19.9
2 11	8 8.94	−23 8.9	2.121	2.921	13.3	19.9
2 21	8 2.05	−21 28.2	2.163	2.939	14.0	20.0
3 2	7 57.34	−19 30.0	2.226	2.956	15.0	20.1

277536 2005 YP_{23} 1 24.6 151°.03 0°.2/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.95	+18 12.6	2.109	2.938	12.2	21.4
1 2	8 43.27	+18 40.6	2.035	2.942	8.9	21.2
1 12	8 35.60	+19 15.3	1.986	2.946	5.1	21.0
1 22	8 26.66	+19 52.5	1.966	2.949	1.0	20.7
2 1	8 17.39	+20 28.4	1.976	2.952	3.1	20.8
2 11	8 8.86	+20 59.2	2.015	2.955	7.1	21.1
2 21	8 1.93	+21 22.7	2.081	2.957	10.6	21.3
3 2	7 57.23	+21 38.2	2.171	2.960	13.6	21.5

200739 2001 VD_{86} 1 24.6 120°.73 1°.7/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.57	+14 14.1	1.634	2.460	15.3	21.3
1 2	8 46.93	+14 17.4	1.570	2.472	11.4	21.0
1 12	8 37.81	+14 31.6	1.529	2.485	6.8	20.8
1 22	8 27.12	+14 53.6	1.516	2.496	2.4	20.6
2 1	8 16.15	+15 19.4	1.531	2.508	3.7	20.7
2 11	8 6.26	+15 44.8	1.575	2.519	8.3	21.0
2 21	7 58.52	+16 6.9	1.644	2.529	12.4	21.2
3 2	7 53.61	+16 23.8	1.735	2.539	15.9	21.5

494184 2016 GC_{247} 1 24.6 199°.26 4°.6/21.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.37	+32 26.6	2.327	3.159	11.1	20.8
1 2	8 45.07	+33 11.8	2.255	3.158	8.4	20.6
1 12	8 36.65	+33 52.5	2.210	3.156	5.8	20.5
1 22	8 26.89	+34 23.1	2.193	3.155	4.6	20.4
2 1	8 16.80	+34 39.3	2.206	3.153	5.9	20.5
2 11	8 7.52	+34 39.2	2.247	3.150	8.5	20.6
2 21	7 59.96	+34 23.6	2.314	3.148	11.3	20.8
3 2	7 54.78	+33 55.0	2.403	3.145	13.7	21.0

30519 2001 ML_{9} 1 24.6 123°.92 1°.8/25.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.31	+13 24.9	1.636	2.460	15.4	19.4
1 2	8 46.75	+13 34.9	1.571	2.473	11.4	19.2
1 12	8 37.71	+13 57.1	1.531	2.485	6.9	18.9
1 22	8 27.12	+14 27.9	1.517	2.498	2.5	18.7
2 1	8 16.22	+15 3.1	1.532	2.509	3.8	18.8
2 11	8 6.38	+15 37.9	1.576	2.520	8.2	19.1
2 21	7 58.67	+16 8.9	1.645	2.531	12.4	19.3
3 2	7 53.78	+16 33.9	1.737	2.541	15.9	19.6

203067 2000 PE_{22} 1 24.6 173°.47 2°.9/22.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.85	+24 52.7	2.015	2.848	12.5	20.8
1 2	8 47.05	+25 51.8	1.944	2.852	9.1	20.6
1 12	8 37.89	+26 53.1	1.898	2.855	5.5	20.4
1 22	8 27.17	+27 50.0	1.881	2.858	2.9	20.3
2 1	8 16.02	+28 36.5	1.894	2.859	4.9	20.4
2 11	8 5.71	+29 8.7	1.937	2.860	8.5	20.6
2 21	7 57.30	+29 25.9	2.006	2.860	12.0	20.8
3 2	7 51.51	+29 29.2	2.098	2.859	14.9	21.0

366093 2012 CQ_{51} 1 24.6 83°.25 4°.4/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 47.31	+ 4 54.9	1.756	2.558	15.4	20.4
1 2	8 42.36	+ 5 15.6	1.681	2.562	12.1	20.2
1 12	8 35.21	+ 5 57.0	1.628	2.565	8.3	20.0
1 22	8 26.61	+ 6 57.0	1.602	2.569	5.1	19.8
2 1	8 17.60	+ 8 11.2	1.603	2.573	4.9	19.8
2 11	8 9.35	+ 9 33.1	1.633	2.577	8.1	20.0
2 21	8 2.85	+10 55.7	1.689	2.580	11.8	20.2
3 2	7 58.81	+12 13.4	1.769	2.584	15.1	20.4

403004 2007 VV_{276} 1 24.6 176°.11 1°.4/25.3 18

12 23	8 52.31	+14 33.7	1.946	2.765	13.5	22.1
1 2	8 45.82	+14 36.3	1.868	2.768	10.0	21.9
1 12	8 37.13	+14 47.9	1.815	2.769	6.0	21.7
1 22	8 27.00	+15 5.9	1.790	2.771	2.1	21.4
2 1	8 16.51	+15 27.1	1.795	2.771	3.3	21.5
2 11	8 6.82	+15 48.1	1.829	2.771	7.5	21.8
2 21	7 58.91	+16 6.5	1.890	2.771	11.3	22.0
3 2	7 53.47	+16 20.5	1.975	2.769	14.5	22.2

122003 2000 FP_{55} 1 24.6 188°.65 2°.7/23.1 18

12 23	8 53.45	+23 16.3	1.723	2.562	14.0	20.5
1 2	8 47.11	+24 15.4	1.649	2.562	10.2	20.3
1 12	8 38.08	+25 19.2	1.601	2.561	6.0	20.0
1 22	8 27.24	+26 20.5	1.580	2.560	2.8	19.8
2 1	8 15.86	+27 12.1	1.589	2.558	5.1	20.0
2 11	8 5.41	+27 49.1	1.626	2.555	9.3	20.2
2 21	7 57.10	+28 10.2	1.688	2.552	13.3	20.4
3 2	7 51.75	+28 16.3	1.771	2.548	16.6	20.7

312499 2009 BQ_{86} 1 24.6 146°.66 0°.9/24.2 18

12 23	8 54.08	+20 39.1	1.885	2.715	13.4	21.3
1 2	8 47.14	+20 57.8	1.816	2.724	9.7	21.1
1 12	8 37.88	+21 20.8	1.773	2.733	5.6	20.9
1 22	8 27.17	+21 43.5	1.758	2.741	1.3	20.6
2 1	8 16.16	+22 1.8	1.773	2.748	3.7	20.8
2 11	8 6.13	+22 12.8	1.817	2.755	7.9	21.1
2 21	7 58.08	+22 15.7	1.888	2.761	11.7	21.3
3 2	7 52.67	+22 10.6	1.982	2.766	14.9	21.5

247317 2001 TV_{183} 1 24.6 16°.12 5°.0/21.5 18

12 23	8 50.32	+33 21.5	2.252	3.088	11.3	20.5
1 2	8 44.38	+34 10.2	2.186	3.088	8.6	20.3
1 12	8 36.29	+34 53.9	2.144	3.089	6.1	20.2
1 22	8 26.84	+35 26.5	2.131	3.090	5.0	20.1
2 1	8 17.08	+35 43.6	2.147	3.090	6.3	20.2
2 11	8 8.16	+35 43.4	2.191	3.091	8.9	20.4
2 21	8 1.02	+35 26.8	2.260	3.092	11.6	20.5
3 2	7 56.29	+34 56.5	2.350	3.093	14.0	20.7

40827 1999 TT_{92} 1 24.6 214°.37 0°.5/24.3 18

12 23	8 51.20	+18 20.7	1.966	2.795	13.0	19.9
1 2	8 45.18	+18 58.8	1.881	2.788	9.5	19.6
1 12	8 36.87	+19 44.8	1.822	2.781	5.5	19.4
1 22	8 26.99	+20 34.1	1.791	2.774	1.2	19.0
2 1	8 16.59	+21 21.5	1.790	2.765	3.5	19.2
2 11	8 6.89	+22 2.3	1.818	2.756	7.8	19.5
2 21	7 58.93	+22 34.0	1.873	2.747	11.7	19.7
3 2	7 53.48	+22 55.4	1.951	2.737	15.0	19.9

109927 2001 SA_{32} 1 24.6 183°.21 0°.6/24.2 18

12 23	8 50.40	+19 12.6	2.251	3.076	11.7	21.3
1 2	8 44.28	+19 43.8	2.171	3.077	8.5	21.1
1 12	8 36.19	+20 20.5	2.118	3.077	4.9	20.9
1 22	8 26.82	+20 58.8	2.094	3.077	1.1	20.6
2 1	8 17.10	+21 34.5	2.100	3.076	3.1	20.8
2 11	8 8.06	+22 4.4	2.137	3.074	6.9	21.0
2 21	8 0.55	+22 26.3	2.201	3.072	10.3	21.2
3 2	7 55.23	+22 39.9	2.289	3.069	13.2	21.4

433055 2012 SZ_{63} 1 24.6 117°.00 2°.3/26.5 18

12 23	8 45.78	+ 8 46.9	2.734	3.530	10.7	21.5
1 2	8 40.51	+ 9 8.8	2.663	3.546	8.1	21.3
1 12	8 33.84	+ 9 41.5	2.618	3.561	5.3	21.2
1 22	8 26.32	+10 22.8	2.603	3.576	2.7	21.0
2 1	8 18.61	+11 10.1	2.618	3.591	2.9	21.1
2 11	8 11.44	+11 59.7	2.664	3.605	5.5	21.3
2 21	8 5.42	+12 48.7	2.739	3.619	8.2	21.5
3 2	8 1.02	+13 34.3	2.839	3.632	10.6	21.6

323864 2005 SO_{151} 1 24.6 215°.35 1°.6/25.6 16

12 23	8 49.02	+12 43.9	2.245	3.057	12.1	21.8
1 2	8 43.30	+13 0.2	2.155	3.050	9.1	21.6
1 12	8 35.66	+13 26.7	2.091	3.043	5.6	21.4
1 22	8 26.73	+14 1.0	2.055	3.034	2.2	21.1
2 1	8 17.38	+14 39.9	2.050	3.026	3.1	21.2
2 11	8 8.60	+15 19.5	2.074	3.017	6.7	21.4
2 21	8 1.25	+15 56.7	2.127	3.007	10.2	21.6
3 2	7 55.99	+16 29.0	2.203	2.997	13.3	21.8

429922 2012 TN_{218} 1 24.6 37°.91 4°.0/22.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 49.51	+30 22.4	2.224	3.063	11.3	20.9
1 2	8 43.72	+31 2.6	2.158	3.066	8.4	20.7
1 12	8 35.88	+31 39.7	2.118	3.070	5.5	20.5
1 22	8 26.76	+32 8.2	2.106	3.074	4.0	20.4
2 1	8 17.37	+32 24.1	2.123	3.078	5.4	20.5
2 11	8 8.82	+32 25.4	2.169	3.082	8.3	20.7
2 21	8 1.98	+32 12.6	2.240	3.086	11.1	20.9
3 2	7 57.47	+31 47.8	2.333	3.091	13.7	21.1

50827 2000 FN_{37} 1 24.6 229°.62 2°.9/26.6 18

12 23	8 45.64	+ 7 54.7	2.381	3.180	12.0	19.2
1 2	8 40.73	+ 8 12.0	2.292	3.176	9.2	19.0
1 12	8 34.13	+ 8 42.5	2.229	3.171	6.1	18.8
1 22	8 26.41	+ 9 24.5	2.194	3.166	3.4	18.6
2 1	8 18.34	+10 15.2	2.189	3.160	3.5	18.6
2 11	8 10.78	+11 10.5	2.213	3.155	6.4	18.8
2 21	8 4.48	+12 6.4	2.265	3.149	9.5	19.0
3 2	8 0.04	+12 59.4	2.342	3.144	12.3	19.2

395312 2011 OY_{14} 1 24.6 136°.76 0°.2/24.6 18

12 23	8 55.15	+17 57.4	1.858	2.682	13.8	21.7
1 2	8 47.87	+18 10.2	1.792	2.697	10.1	21.5
1 12	8 38.28	+18 29.3	1.752	2.710	5.8	21.2
1 22	8 27.27	+18 50.9	1.740	2.723	1.2	21.0
2 1	8 16.02	+19 11.1	1.759	2.735	3.4	21.1
2 11	8 5.78	+19 26.7	1.807	2.747	7.7	21.4
2 21	7 57.56	+19 36.2	1.882	2.758	11.6	21.7
3 2	7 52.00	+19 39.2	1.980	2.767	14.8	21.9

499784 2011 CA_{53} 1 24.6 223°.30 2°.5/23.2 18

12 23	8 52.49	+26 43.2	2.395	3.223	10.9	21.3
1 2	8 45.79	+27 2.6	2.308	3.215	8.0	21.1
1 12	8 37.07	+27 20.8	2.249	3.205	4.9	20.9
1 22	8 27.03	+27 33.9	2.219	3.196	2.5	20.7
2 1	8 16.63	+27 38.2	2.219	3.185	4.2	20.8
2 11	8 6.93	+27 31.9	2.250	3.175	7.4	21.0
2 21	7 58.83	+27 15.3	2.308	3.164	10.5	21.2
3 2	7 52.97	+26 49.8	2.390	3.152	13.2	21.4

466232 2012 TB_{312} 1 24.6 147°.77 5°.1/29.1 18

12 23	8 44.85	− 2 12.4	3.095	3.833	10.8	22.3
1 2	8 39.73	− 2 19.5	3.015	3.842	8.9	22.1
1 12	8 33.37	− 2 12.0	2.959	3.852	7.0	22.0
1 22	8 26.24	− 1 50.0	2.930	3.861	5.5	21.9
2 1	8 18.91	− 1 14.6	2.931	3.869	5.2	21.9
2 11	8 12.02	− 0 28.4	2.962	3.877	6.3	22.0
2 21	8 6.11	+ 0 25.0	3.021	3.884	8.1	22.1
3 2	8 1.61	+ 1 22.0	3.106	3.891	10.0	22.3

377198 2003 WG_{56} 1 24.6 124°.00 5°.4/27.9 18

12 23	8 48.30	+ 1 31.8	2.465	3.229	12.6	20.6
1 2	8 42.45	+ 0 57.0	2.391	3.241	10.2	20.4
1 12	8 35.01	+ 0 36.7	2.342	3.253	7.7	20.3
1 22	8 26.58	+ 0 31.7	2.320	3.264	5.8	20.2
2 1	8 17.94	+ 0 41.1	2.328	3.275	5.6	20.2
2 11	8 9.91	+ 1 2.7	2.364	3.285	7.3	20.3
2 21	8 3.19	+ 1 32.9	2.428	3.296	9.6	20.4
3 2	7 58.29	+ 2 8.0	2.516	3.305	11.9	20.6

119746 2001 YZ_{51} 1 24.6 123°.04 0°.8/24.1 18

12 23	8 50.76	+20 19.2	1.982	2.815	12.7	20.2
1 2	8 44.68	+20 42.8	1.913	2.823	9.2	20.0
1 12	8 36.46	+21 11.1	1.870	2.830	5.3	19.8
1 22	8 26.90	+21 39.8	1.855	2.838	1.3	19.5
2 1	8 17.06	+22 4.8	1.869	2.845	3.5	19.7
2 11	8 8.08	+22 22.9	1.913	2.852	7.5	19.9
2 21	8 0.89	+22 32.9	1.984	2.858	11.1	20.2
3 2	7 56.11	+22 34.6	2.077	2.865	14.2	20.4

231622 2009 SX_{159} 1 24.6 172°.10 3°.4/22.7 18

12 23	8 52.48	+28 17.7	2.193	3.026	11.6	21.0
1 2	8 45.90	+28 54.5	2.121	3.028	8.6	20.8
1 12	8 37.16	+29 29.5	2.076	3.030	5.4	20.6
1 22	8 27.06	+29 57.4	2.059	3.032	3.4	20.5
2 1	8 16.65	+30 13.9	2.072	3.033	5.0	20.6
2 11	8 7.08	+30 16.8	2.115	3.034	8.1	20.8
2 21	7 59.30	+30 6.5	2.184	3.034	11.2	21.0
3 2	7 53.94	+29 44.9	2.275	3.034	13.9	21.2

350082 2011 KU_{1} 1 24.6 102°.39 0°.1/24.7 18

12 23	8 46.88	+15 40.3	2.586	3.404	10.6	21.0
1 2	8 41.43	+16 35.0	2.521	3.423	7.7	20.8
1 12	8 34.43	+17 37.1	2.484	3.441	4.4	20.6
1 22	8 26.48	+18 42.8	2.477	3.460	0.9	20.4
2 1	8 18.32	+19 47.6	2.502	3.478	2.5	20.6
2 11	8 10.75	+20 47.5	2.557	3.496	5.8	20.8
2 21	8 4.46	+21 39.8	2.641	3.513	8.8	21.0
3 2	7 59.94	+22 23.1	2.750	3.530	11.3	21.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
112047 2002 JG_8			1 24.6 260°.01		0°.3/24.8 18	
	h m	° ′			°	m
12 23	8 50.38	+15 50.1	1.787	2.618	14.0	20.6
1 2	8 44.91	+16 27.2	1.693	2.600	10.4	20.4
1 12	8 36.90	+17 16.3	1.622	2.581	6.1	20.1
1 22	8 27.07	+18 13.0	1.580	2.562	1.4	19.7
2 1	8 16.51	+19 11.6	1.566	2.543	3.6	19.8
2 11	8 6.56	+20 6.3	1.581	2.523	8.4	20.1
2 21	7 58.41	+20 52.9	1.622	2.503	12.8	20.3
3 2	7 52.97	+21 29.1	1.685	2.483	16.5	20.5
427324 2014 WY_{300}			1 24.6 149°.64		2°.8/25.9 18	
12 23	8 51.55	+11 10.3	2.098	2.905	13.1	21.1
1 2	8 45.08	+10 53.2	2.023	2.912	9.9	20.9
1 12	8 36.64	+10 46.1	1.973	2.919	6.4	20.7
1 22	8 26.96	+10 48.1	1.951	2.925	3.2	20.5
2 1	8 17.00	+10 57.0	1.959	2.931	3.8	20.5
2 11	8 7.82	+11 10.4	1.997	2.937	7.1	20.8
2 21	8 0.26	+11 25.7	2.062	2.942	10.5	21.0
3 2	7 54.94	+11 40.4	2.151	2.947	13.5	21.2
323983 2005 UY_{176}			1 24.6 147°.40		6°.8/20.2 18	
12 23	8 54.43	+37 15.3	2.111	2.939	12.2	20.4
1 2	8 47.63	+38 31.3	2.053	2.945	9.6	20.2
1 12	8 38.30	+39 39.0	2.020	2.951	7.5	20.1
1 22	8 27.32	+40 30.5	2.016	2.956	6.8	20.1
2 1	8 15.97	+41 0.2	2.039	2.961	8.1	20.2
2 11	8 5.63	+41 6.2	2.090	2.966	10.5	20.3
2 21	7 57.40	+40 50.5	2.164	2.970	13.0	20.5
3 2	7 52.02	+40 17.3	2.259	2.974	15.2	20.7
82502 2001 OC_{46}			1 24.6 130°.15		0°.1/24.6 18	
12 23	8 50.60	+16 47.8	2.223	3.044	12.0	20.4
1 2	8 44.32	+17 26.7	2.157	3.060	8.7	20.2
1 12	8 36.17	+18 12.8	2.117	3.075	5.0	20.0
1 22	8 26.86	+19 2.1	2.107	3.090	1.0	19.7
2 1	8 17.31	+19 50.2	2.128	3.104	2.9	19.9
2 11	8 8.51	+20 33.1	2.179	3.117	6.7	20.2
2 21	8 1.28	+21 8.5	2.257	3.130	10.0	20.4
3 2	7 56.20	+21 35.2	2.360	3.142	12.8	20.6
502452 2015 BF_{292}			1 24.6 102°.66		1°.3/25.6 18	
12 23	8 46.14	+12 24.6	2.370	3.184	11.5	20.8
1 2	8 41.03	+12 58.7	2.298	3.195	8.6	20.6
1 12	8 34.27	+13 42.9	2.252	3.205	5.2	20.4
1 22	8 26.47	+14 34.5	2.235	3.215	1.9	20.2
2 1	8 18.41	+15 29.3	2.248	3.225	2.7	20.3
2 11	8 10.96	+16 23.4	2.291	3.234	6.1	20.5
2 21	8 4.84	+17 13.4	2.363	3.244	9.3	20.7
3 2	8 0.60	+17 56.8	2.458	3.253	12.0	20.9
237339 2009 WN_{162}			1 24.6 145°.77		0°.9/25.1 18	
12 23	8 49.16	+15 32.1	2.145	2.967	12.3	21.2
1 2	8 43.38	+15 41.3	2.069	2.971	9.1	21.0
1 12	8 35.69	+15 58.2	2.019	2.975	5.4	20.7
1 22	8 26.77	+16 20.1	1.998	2.979	1.6	20.5
2 1	8 17.56	+16 43.9	2.006	2.983	3.0	20.6
2 11	8 9.06	+17 6.5	2.044	2.987	6.8	20.8
2 21	8 2.13	+17 25.6	2.109	2.990	10.3	21.1
3 2	7 57.37	+17 39.7	2.198	2.993	13.2	21.3
115106 2003 SF_{27}			1 24.6 59°.22		2°.5/23.7 18	
12 23	8 54.47	+24 11.7	1.418	2.268	15.9	19.8
1 2	8 47.97	+24 31.3	1.364	2.281	11.6	19.6
1 12	8 38.56	+24 52.3	1.333	2.294	6.7	19.3
1 22	8 27.38	+25 8.6	1.327	2.308	2.6	19.1
2 1	8 15.99	+25 15.0	1.349	2.322	5.1	19.3
2 11	8 6.02	+25 9.3	1.398	2.336	9.7	19.6
2 21	7 58.65	+24 51.9	1.471	2.350	14.0	19.9
3 2	7 54.57	+24 25.1	1.564	2.364	17.5	20.2
260461 2005 AE_{60}			1 24.6 351°.87		1°.5/23.9 18	
12 23	8 49.61	+20 42.5	1.308	2.165	16.5	20.3
1 2	8 44.86	+21 13.5	1.240	2.161	12.1	20.1
1 12	8 37.03	+21 52.3	1.194	2.158	7.0	19.8
1 22	8 27.12	+22 32.7	1.172	2.155	1.9	19.4
2 1	8 16.63	+23 7.5	1.177	2.153	4.9	19.6
2 11	8 7.31	+23 31.6	1.208	2.152	10.2	19.9
2 21	8 0.53	+23 42.8	1.261	2.152	15.0	20.2
3 2	7 57.14	+23 41.3	1.334	2.152	19.0	20.5
202394 2005 GM_{175}			1 24.6 175°.10		0°.8/24.0 18	
12 23	8 46.78	+19 17.4	2.274	3.106	11.3	20.1
1 2	8 41.68	+20 0.6	2.196	3.106	8.2	19.9
1 12	8 34.74	+20 49.9	2.145	3.106	4.7	19.7
1 22	8 26.60	+21 41.0	2.123	3.106	1.1	19.5
2 1	8 18.11	+22 29.5	2.131	3.106	3.2	19.6
2 11	8 10.24	+23 11.5	2.169	3.106	6.8	19.9
2 21	8 3.81	+23 44.6	2.233	3.106	10.1	20.1
3 2	7 59.43	+24 7.9	2.322	3.106	13.0	20.3

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
283935 2004 PH_{31}			1 24.6 123°.82		0°.5/24.9 18	
	h m	° ′			°	m
12 23	8 53.73	+15 49.2	1.841	2.664	14.0	21.6
1 2	8 46.86	+16 21.2	1.780	2.683	10.2	21.4
1 12	8 37.73	+17 2.5	1.744	2.701	5.9	21.1
1 22	8 27.22	+17 48.4	1.736	2.719	1.4	20.9
2 1	8 16.46	+18 34.0	1.758	2.735	3.3	21.0
2 11	8 6.70	+19 14.7	1.810	2.751	7.6	21.3
2 21	7 58.90	+19 47.8	1.889	2.766	11.4	21.6
3 2	7 53.69	+20 12.3	1.991	2.781	14.6	21.8
259021 2002 TL_{189}			1 24.6 66°.47		8°.0/29.2 17	
12 23	8 50.64	− 1 41.9	1.596	2.370	18.0	20.3
1 2	8 44.67	− 2 13.8	1.547	2.398	14.7	20.2
1 12	8 36.46	− 2 20.0	1.519	2.426	11.3	20.0
1 22	8 26.94	− 1 59.9	1.515	2.455	8.7	19.9
2 1	8 17.30	− 1 16.0	1.537	2.483	8.1	20.0
2 11	8 8.74	− 0 14.1	1.586	2.511	9.9	20.1
2 21	8 2.22	+ 0 57.9	1.659	2.538	12.7	20.4
3 2	7 58.30	+ 2 12.9	1.755	2.566	15.4	20.6
8287 1992 EJ_4			1 24.6 236°.45		0°.6/24.3 18	
12 23	8 53.20	+18 11.0	1.478	2.319	15.9	18.4
1 2	8 47.33	+18 47.3	1.398	2.310	11.7	18.2
1 12	8 38.45	+19 34.5	1.340	2.301	6.8	17.9
1 22	8 27.44	+20 26.6	1.309	2.292	1.4	17.5
2 1	8 15.70	+21 16.6	1.306	2.282	4.3	17.7
2 11	8 4.89	+21 58.5	1.330	2.272	9.7	17.9
2 21	7 56.41	+22 28.9	1.378	2.261	14.5	18.2
3 2	7 51.21	+22 46.9	1.447	2.250	18.5	18.4
142862 2002 VW_{28}			1 24.6 83°.11		0°.9/25.1 18	
12 23	8 52.25	+15 3.1	1.743	2.570	14.5	20.9
1 2	8 45.77	+15 24.9	1.691	2.595	10.6	20.7
1 12	8 37.07	+15 56.4	1.664	2.621	6.2	20.5
1 22	8 27.07	+16 33.7	1.664	2.646	1.7	20.2
2 1	8 16.95	+17 12.0	1.694	2.671	3.3	20.4
2 11	8 7.91	+17 47.1	1.752	2.695	7.6	20.7
2 21	8 0.88	+18 16.3	1.836	2.719	11.4	21.0
3 2	7 56.44	+18 38.0	1.944	2.743	14.6	21.3
187579 2006 WA_{27}			1 24.6 51°.84		3°.0/23.1 18	
12 23	8 51.11	+23 50.5	1.486	2.338	15.2	20.1
1 2	8 45.48	+24 48.4	1.436	2.355	11.0	19.9
1 12	8 37.13	+25 49.5	1.410	2.372	6.5	19.7
1 22	8 27.11	+26 45.9	1.410	2.389	3.1	19.6
2 1	8 16.84	+27 30.4	1.438	2.407	5.4	19.7
2 11	8 7.83	+27 59.0	1.493	2.426	9.7	20.0
2 21	8 1.20	+28 11.1	1.571	2.444	13.6	20.3
3 2	7 57.63	+28 8.3	1.670	2.462	16.9	20.6
436261 2010 CF_8			1 24.6 349°.46		13°.7/ 4.2 18	
12 23	8 43.22	−19 37.7	1.951	2.607	18.7	20.4
1 2	8 39.42	−20 35.8	1.873	2.601	17.2	20.2
1 12	8 33.59	−21 2.1	1.810	2.596	15.7	20.1
1 22	8 26.39	−20 51.7	1.766	2.591	14.4	20.0
2 1	8 18.73	−20 2.4	1.742	2.587	13.7	20.0
2 11	8 11.68	−18 37.0	1.741	2.584	13.9	20.0
2 21	8 6.18	−16 42.5	1.761	2.582	14.9	20.0
3 2	8 2.92	−14 28.6	1.802	2.580	16.4	20.1
432993 2012 PQ_{34}			1 24.6 99°.25		0°.1/24.6 18	
12 23	8 49.41	+18 43.1	2.354	3.178	11.3	21.2
1 2	8 43.36	+18 47.3	2.286	3.191	8.2	21.0
1 12	8 35.58	+18 55.7	2.245	3.204	4.7	20.8
1 22	8 26.77	+19 5.7	2.233	3.216	1.0	20.5
2 1	8 17.78	+19 14.8	2.252	3.228	2.7	20.7
2 11	8 9.53	+19 20.8	2.300	3.241	6.3	20.9
2 21	8 2.77	+19 22.7	2.377	3.253	9.5	21.2
3 2	7 58.03	+19 19.9	2.477	3.264	12.2	21.4
149889 2005 RT_{23}			1 24.6 162°.60		1°.6/23.9 18	
12 23	8 53.28	+23 33.6	2.104	2.934	12.2	20.3
1 2	8 46.45	+23 44.4	2.030	2.938	8.9	20.1
1 12	8 37.49	+23 56.1	1.982	2.942	5.1	19.9
1 22	8 27.18	+24 4.8	1.963	2.945	1.8	19.6
2 1	8 16.60	+24 7.2	1.975	2.947	3.7	19.8
2 11	8 6.90	+24 1.4	2.016	2.950	7.5	20.0
2 21	7 59.00	+23 47.5	2.084	2.952	11.0	20.2
3 2	7 53.53	+23 26.4	2.175	2.953	13.9	20.4
432144 2009 BJ_{94}			1 24.6 263°.08		2°.4/26.5 17	
12 23	8 44.90	+ 8 26.4	2.390	3.192	11.8	21.1
1 2	8 40.23	+ 9 2.3	2.303	3.189	9.0	20.9
1 12	8 33.89	+ 9 52.0	2.241	3.186	5.9	20.7
1 22	8 26.44	+10 53.1	2.208	3.183	2.9	20.5
2 1	8 18.65	+12 1.7	2.205	3.180	3.2	20.5
2 11	8 11.35	+13 13.2	2.233	3.176	6.2	20.7
2 21	8 5.29	+14 22.9	2.288	3.173	9.4	20.9
3 2	8 1.07	+15 27.3	2.369	3.170	12.2	21.1

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
187871 2000 QC_{64}			1 24.6	53°.74	2°.1/23.5	18
	h m	° ′			°	m
12 23	8 51.18	+20 48.9	1.540	2.386	15.0	19.1
1 2	8 45.28	+21 58.1	1.500	2.416	10.8	18.9
1 12	8 36.89	+23 12.7	1.484	2.446	6.1	18.7
1 22	8 27.05	+24 24.9	1.496	2.477	2.2	18.5
2 1	8 17.10	+25 27.4	1.536	2.508	4.7	18.7
2 11	8 8.40	+26 15.2	1.603	2.539	8.9	19.1
2 21	8 1.97	+26 47.0	1.696	2.570	12.7	19.3
3 2	7 58.40	+27 3.6	1.810	2.601	15.8	19.6
160824 2000 WU_{180}			1 24.6	148°.54	1°.2/24.1	18
12 23	8 54.65	+21 35.1	1.814	2.647	13.7	20.4
1 2	8 47.69	+21 53.2	1.746	2.655	10.0	20.2
1 12	8 38.30	+22 14.6	1.702	2.662	5.7	19.9
1 22	8 27.37	+22 34.9	1.686	2.669	1.6	19.7
2 1	8 16.13	+22 49.7	1.700	2.675	3.9	19.8
2 11	8 5.91	+22 56.2	1.743	2.680	8.2	20.1
2 21	7 57.77	+22 53.8	1.812	2.685	12.1	20.4
3 2	7 52.38	+22 43.2	1.904	2.690	15.3	20.6
415976 2001 YU_{29}			1 24.6	96°.42	1°.0/25.1	18
12 23	8 51.06	+15 30.2	1.927	2.751	13.4	21.2
1 2	8 44.83	+15 39.7	1.865	2.768	9.8	21.0
1 12	8 36.53	+15 57.5	1.828	2.785	5.8	20.8
1 22	8 26.99	+16 20.5	1.819	2.801	1.7	20.5
2 1	8 17.25	+16 45.2	1.840	2.817	3.2	20.7
2 11	8 8.42	+17 8.1	1.890	2.833	7.2	21.0
2 21	8 1.40	+17 27.1	1.967	2.849	10.8	21.2
3 2	7 56.76	+17 40.7	2.067	2.864	13.9	21.5
203939 2003 QV_{73}			1 24.6	242°.77	1°.0/25.1	18
12 23	8 51.57	+15 17.2	1.816	2.642	14.0	21.1
1 2	8 45.67	+15 33.3	1.725	2.629	10.4	20.8
1 12	8 37.31	+15 59.8	1.659	2.616	6.2	20.6
1 22	8 27.21	+16 33.3	1.619	2.601	1.8	20.2
2 1	8 16.49	+17 9.5	1.609	2.587	3.5	20.3
2 11	8 6.45	+17 44.0	1.628	2.572	8.1	20.6
2 21	7 58.23	+18 13.5	1.673	2.556	12.4	20.8
3 2	7 52.68	+18 36.0	1.741	2.540	16.0	21.0
179829 2002 TW_{161}			1 24.6	110°.36	4°.1/27.5	18
12 23	8 48.76	+ 4 19.0	1.889	2.682	14.9	21.1
1 2	8 43.25	+ 4 52.1	1.820	2.695	11.6	20.9
1 12	8 35.69	+ 5 45.1	1.774	2.709	8.0	20.7
1 22	8 26.83	+ 6 55.5	1.755	2.722	4.8	20.5
2 1	8 17.66	+ 8 18.4	1.766	2.735	4.6	20.5
2 11	8 9.27	+ 9 47.0	1.805	2.747	7.6	20.7
2 21	8 2.56	+11 14.9	1.873	2.759	11.0	21.0
3 2	7 58.17	+12 36.5	1.964	2.771	14.1	21.2
102050 1999 RP_{122}			1 24.6	89°.24	3°.4/26.5	18
12 23	8 50.33	+ 8 39.3	1.616	2.432	15.9	19.6
1 2	8 44.63	+ 8 51.8	1.554	2.447	12.1	19.4
1 12	8 36.57	+ 9 21.6	1.515	2.461	7.9	19.2
1 22	8 27.03	+10 6.1	1.501	2.476	4.1	19.0
2 1	8 17.18	+11 0.6	1.516	2.490	4.4	19.1
2 11	8 8.33	+11 59.1	1.559	2.504	8.2	19.3
2 21	8 1.49	+12 56.2	1.628	2.518	12.2	19.6
3 2	7 57.33	+13 47.6	1.718	2.532	15.6	19.8
461715 2005 SY_{118}			1 24.6	129°.02	0°.1/24.7	18
12 23	8 50.17	+16 49.8	2.211	3.033	12.0	22.0
1 2	8 44.06	+17 25.5	2.144	3.048	8.7	21.8
1 12	8 36.07	+18 8.5	2.104	3.062	5.0	21.6
1 22	8 26.91	+18 54.7	2.092	3.075	1.1	21.3
2 1	8 17.51	+19 39.9	2.111	3.088	2.9	21.5
2 11	8 8.85	+20 20.4	2.161	3.100	6.7	21.7
2 21	8 1.76	+20 53.6	2.238	3.112	10.0	22.0
3 2	7 56.81	+21 18.6	2.339	3.123	12.9	22.2
49261 1998 TW_{33}			1 24.6	140°.98	6°.3/28.8	18
12 23	8 49.08	− 1 5.2	2.140	2.899	14.4	20.2
1 2	8 43.29	− 1 18.3	2.066	2.910	11.8	20.0
1 12	8 35.65	− 1 11.5	2.015	2.920	9.1	19.9
1 22	8 26.83	− 0 44.7	1.989	2.930	6.9	19.7
2 1	8 17.72	+ 0 0.3	1.993	2.939	6.5	19.7
2 11	8 9.29	+ 0 59.4	2.024	2.948	8.2	19.8
2 21	8 2.36	+ 2 7.1	2.083	2.956	10.7	20.0
3 2	7 57.51	+ 3 17.6	2.166	2.963	13.3	20.2
320863 2008 FQ_{126}			1 24.6	233°.08	2°.9/26.5	18
12 23	8 47.72	+ 8 25.3	2.038	2.844	13.5	20.7
1 2	8 42.56	+ 8 48.6	1.949	2.837	10.3	20.5
1 12	8 35.38	+ 9 27.4	1.885	2.829	6.8	20.2
1 22	8 26.80	+10 19.6	1.847	2.822	3.5	20.0
2 1	8 17.75	+11 21.3	1.840	2.814	3.8	20.0
2 11	8 9.28	+12 27.3	1.862	2.805	7.2	20.2
2 21	8 2.31	+13 32.6	1.911	2.797	10.9	20.4
3 2	7 57.56	+14 32.9	1.983	2.788	14.1	20.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
393878 2005 TC_{47}			1 24.6	147°.82	0°.9/24.2	18
	h m	° ′			°	m
12 23	8 56.98	+20 57.7	1.723	2.553	14.4	21.6
1 2	8 49.46	+21 11.5	1.655	2.563	10.5	21.4
1 12	8 39.35	+21 29.1	1.613	2.573	6.0	21.2
1 22	8 27.62	+21 46.0	1.599	2.582	1.4	20.9
2 1	8 15.59	+21 57.7	1.614	2.590	3.9	21.1
2 11	8 4.68	+22 1.6	1.659	2.597	8.5	21.4
2 21	7 56.03	+21 57.2	1.730	2.603	12.5	21.6
3 2	7 50.31	+21 45.2	1.822	2.609	15.9	21.9
467571 2007 TD_{354}			1 24.6	60°.31	4°.5/21.5	18
12 23	8 49.31	+29 58.8	2.077	2.919	11.9	20.8
1 2	8 43.74	+31 11.0	2.023	2.932	8.8	20.7
1 12	8 36.01	+32 20.8	1.994	2.945	5.9	20.5
1 22	8 26.92	+33 21.3	1.993	2.958	4.5	20.4
2 1	8 17.54	+34 6.8	2.022	2.972	6.1	20.6
2 11	8 9.03	+34 34.4	2.078	2.986	8.9	20.8
2 21	8 2.34	+34 44.3	2.160	2.999	11.8	21.0
3 2	7 58.11	+34 38.6	2.263	3.013	14.2	21.2
204315 2004 RN_{34}			1 24.6	106°.12	1°.2/24.0	18
12 23	8 54.25	+19 50.0	1.638	2.474	14.8	20.8
1 2	8 47.51	+20 33.0	1.582	2.493	10.7	20.6
1 12	8 38.22	+21 22.4	1.551	2.512	6.1	20.3
1 22	8 27.38	+22 12.1	1.547	2.530	1.5	20.1
2 1	8 16.30	+22 55.9	1.573	2.548	4.1	20.3
2 11	8 6.38	+23 29.5	1.627	2.565	8.6	20.6
2 21	7 58.71	+23 51.2	1.707	2.582	12.6	20.9
3 2	7 53.93	+24 1.3	1.808	2.598	15.9	21.1
253141 2002 VW_{60}			1 24.6	38°.86	4°.1/26.2	18
12 23	8 50.51	+10 17.0	1.466	2.292	16.7	20.0
1 2	8 44.95	+ 9 44.5	1.404	2.302	12.8	19.8
1 12	8 36.82	+ 9 26.8	1.365	2.313	8.4	19.6
1 22	8 27.10	+ 9 23.2	1.350	2.324	4.6	19.4
2 1	8 17.08	+ 9 31.6	1.363	2.336	5.1	19.4
2 11	8 8.17	+ 9 48.3	1.402	2.348	9.0	19.7
2 21	8 1.46	+10 9.2	1.466	2.360	13.1	20.0
3 2	7 57.64	+10 30.4	1.551	2.373	16.6	20.2
496996 2002 TF_{325}			1 24.6	70°.31	4°.2/27.4	18
12 23	8 45.76	+ 4 50.1	2.184	2.976	13.2	21.8
1 2	8 40.93	+ 4 53.3	2.104	2.978	10.3	21.6
1 12	8 34.32	+ 5 12.4	2.048	2.980	7.3	21.5
1 22	8 26.58	+ 5 46.4	2.019	2.982	4.7	21.3
2 1	8 18.51	+ 6 32.8	2.019	2.985	4.6	21.3
2 11	8 11.05	+ 7 27.4	2.048	2.987	7.0	21.5
2 21	8 4.96	+ 8 25.5	2.104	2.989	10.1	21.6
3 2	8 0.85	+ 9 22.8	2.184	2.992	12.9	21.8
355871 2008 UU_{354}			1 24.6	8°.90	0°.5/24.4	15
12 23	8 48.34	+17 56.1	1.138	2.001	18.0	20.9
1 2	8 44.16	+18 27.8	1.078	2.001	13.2	20.6
1 12	8 36.74	+19 12.2	1.039	2.003	7.6	20.3
1 22	8 27.13	+20 2.6	1.023	2.006	1.6	20.0
2 1	8 16.99	+20 51.2	1.032	2.010	4.7	20.2
2 11	8 8.15	+21 31.1	1.065	2.015	10.5	20.5
2 21	8 2.06	+21 58.5	1.121	2.021	15.7	20.8
3 2	7 59.55	+22 12.3	1.195	2.027	19.9	21.1
270408 2002 BK_{31}			1 24.6	6°.54	3°.2/26.5	18
12 23	8 45.48	+ 8 29.6	1.549	2.375	16.0	20.2
1 2	8 41.35	+ 8 56.9	1.477	2.376	12.2	20.0
1 12	8 34.83	+ 9 44.0	1.427	2.377	8.0	19.7
1 22	8 26.71	+10 48.0	1.403	2.379	4.0	19.5
2 1	8 18.13	+12 3.1	1.405	2.381	4.3	19.5
2 11	8 10.39	+13 22.1	1.435	2.384	8.4	19.8
2 21	8 4.57	+14 38.1	1.490	2.388	12.6	20.0
3 2	8 1.42	+15 45.7	1.567	2.392	16.3	20.2
448283 2008 YJ_{170}			1 24.6	82°.18	0°.7/25.0	18
12 23	8 52.12	+14 35.8	1.510	2.344	16.0	21.4
1 2	8 46.05	+15 16.1	1.457	2.365	11.7	21.2
1 12	8 37.43	+16 9.2	1.427	2.385	6.8	21.0
1 22	8 27.24	+17 9.5	1.423	2.406	1.7	20.7
2 1	8 16.81	+18 10.2	1.448	2.426	3.7	20.9
2 11	8 7.55	+19 5.3	1.501	2.446	8.5	21.2
2 21	8 0.54	+19 50.9	1.579	2.466	12.7	21.5
3 2	7 56.45	+20 25.2	1.679	2.485	16.2	21.8
153841 2001 XL_{23}			1 24.6	56°.16	5°.8/21.5	18
12 23	8 53.03	+30 44.2	1.570	2.419	14.6	18.9
1 2	8 46.89	+32 6.8	1.530	2.442	10.9	18.7
1 12	8 37.96	+33 24.6	1.514	2.466	7.4	18.6
1 22	8 27.34	+34 28.3	1.525	2.489	5.8	18.6
2 1	8 16.54	+35 10.7	1.563	2.513	7.6	18.7
2 11	8 7.09	+35 29.5	1.628	2.536	10.9	19.0
2 21	8 0.15	+35 26.3	1.715	2.560	14.1	19.2
3 2	7 56.34	+35 5.4	1.823	2.584	16.8	19.5

165179 2000 QK_{166} 1 24.6 179°.73 3°.8/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 51.12	+ 7 48.6	1.852	2.655	14.7	20.7
1 2	8 45.12	+ 7 47.4	1.773	2.657	11.4	20.5
1 12	8 36.88	+ 8 1.7	1.716	2.658	7.7	20.2
1 22	8 27.14	+ 8 30.3	1.687	2.658	4.4	20.0
2 1	8 16.98	+ 9 10.1	1.687	2.658	4.6	20.1
2 11	8 7.57	+ 9 56.7	1.716	2.657	8.0	20.3
2 21	7 59.92	+10 45.3	1.771	2.656	11.7	20.5
3 2	7 54.76	+11 31.7	1.849	2.654	15.0	20.7

166681 2002 TZ_{111} 1 24.6 113°.84 2°.6/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.39	+ 8 33.7	2.337	3.139	12.1	20.5
1 2	8 41.26	+ 8 56.0	2.263	3.148	9.2	20.3
1 12	8 34.46	+ 9 31.2	2.214	3.158	6.0	20.1
1 22	8 26.61	+10 17.0	2.193	3.167	3.1	19.9
2 1	8 18.50	+11 10.0	2.203	3.176	3.3	20.0
2 11	8 11.00	+12 6.2	2.242	3.185	6.3	20.2
2 21	8 4.83	+13 1.4	2.309	3.193	9.4	20.4
3 2	8 0.54	+13 52.5	2.401	3.202	12.1	20.6

17997 1999 JN_{78} 1 24.6 312°.97 0°.8/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.97	+12 48.0	1.328	2.173	17.0	17.7
1 2	8 43.09	+13 52.0	1.244	2.157	12.8	17.4
1 12	8 36.20	+15 18.4	1.181	2.141	7.6	17.1
1 22	8 27.08	+17 1.6	1.143	2.125	2.0	16.7
2 1	8 17.03	+18 51.8	1.132	2.110	4.3	16.8
2 11	8 7.74	+20 37.9	1.147	2.096	10.1	17.1
2 21	8 0.71	+22 11.0	1.186	2.082	15.3	17.3
3 2	7 57.02	+23 26.2	1.245	2.068	19.8	17.5

173045 2006 QP_{114} 1 24.6 106°.65 4°.5/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.23	+ 1 46.2	2.561	3.330	12.0	20.2
1 2	8 40.27	+ 1 54.8	2.487	3.343	9.6	20.0
1 12	8 33.83	+ 2 18.9	2.437	3.355	7.1	19.9
1 22	8 26.48	+ 2 57.8	2.414	3.367	5.0	19.8
2 1	8 18.91	+ 3 49.2	2.422	3.379	4.7	19.8
2 11	8 11.89	+ 4 49.1	2.458	3.391	6.4	19.9
2 21	8 6.06	+ 5 53.2	2.523	3.402	8.9	20.1
3 2	8 1.90	+ 6 57.4	2.614	3.413	11.2	20.2

156117 2001 SU_{288} 1 24.6 230°.19 0°.2/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.40	+18 12.5	1.725	2.556	14.4	20.2
1 2	8 47.85	+18 19.3	1.639	2.546	10.7	20.0
1 12	8 38.62	+18 33.0	1.576	2.535	6.2	19.7
1 22	8 27.55	+18 50.0	1.541	2.524	1.4	19.3
2 1	8 15.87	+19 6.0	1.535	2.512	3.7	19.5
2 11	8 5.02	+19 17.7	1.558	2.500	8.6	19.7
2 21	7 56.23	+19 23.2	1.607	2.487	12.9	20.0
3 2	7 50.34	+19 22.1	1.677	2.473	16.7	20.2

313174 2001 MV_{11} 1 24.6 167°.31 1°.8/23.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.45	+23 48.0	2.136	2.965	12.1	21.2
1 2	8 46.61	+24 8.5	2.062	2.969	8.8	21.0
1 12	8 37.62	+24 30.1	2.014	2.973	5.1	20.8
1 22	8 27.29	+24 48.6	1.996	2.976	1.9	20.6
2 1	8 16.67	+25 0.2	2.007	2.979	3.9	20.7
2 11	8 6.89	+25 2.6	2.049	2.981	7.5	21.0
2 21	7 58.89	+24 55.6	2.118	2.982	11.0	21.2
3 2	7 53.30	+24 40.2	2.209	2.983	13.9	21.4

244554 2002 VX_{57} 1 24.6 140°.03 3°.1/22.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.88	+25 58.6	2.142	2.975	11.9	21.0
1 2	8 46.23	+26 58.1	2.079	2.987	8.7	20.9
1 12	8 37.42	+27 58.3	2.043	2.999	5.3	20.7
1 22	8 27.26	+28 52.8	2.035	3.010	3.1	20.5
2 1	8 16.79	+29 36.4	2.059	3.021	4.8	20.7
2 11	8 7.17	+30 5.8	2.111	3.031	8.1	20.9
2 21	7 59.34	+30 20.5	2.190	3.040	11.2	21.1
3 2	7 53.95	+30 21.9	2.292	3.049	13.9	21.3

302909 2003 SW_{42} 1 24.6 163°.34 2°.1/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.30	+12 47.7	1.875	2.691	14.0	21.2
1 2	8 45.93	+12 45.1	1.799	2.695	10.5	21.0
1 12	8 37.31	+12 53.1	1.748	2.699	6.5	20.8
1 22	8 27.24	+13 9.7	1.724	2.703	2.7	20.5
2 1	8 16.82	+13 31.7	1.730	2.706	3.6	20.6
2 11	8 7.23	+13 55.7	1.765	2.708	7.6	20.8
2 21	7 59.46	+14 18.7	1.827	2.710	11.5	21.1
3 2	7 54.20	+14 38.3	1.912	2.712	14.8	21.3

50751 2000 EL_{173} 1 24.6 229°.32 7°.9/19.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.77	+38 57.2	1.969	2.797	13.0	19.1
1 2	8 49.08	+40 25.3	1.900	2.789	10.5	18.9
1 12	8 39.43	+41 44.6	1.857	2.781	8.5	18.7
1 22	8 27.74	+42 45.7	1.841	2.773	8.0	18.7
2 1	8 15.41	+43 21.3	1.852	2.765	9.4	18.8
2 11	8 4.07	+43 28.8	1.889	2.756	11.9	18.9
2 21	7 55.06	+43 10.5	1.949	2.746	14.5	19.1
3 2	7 49.27	+42 31.4	2.028	2.737	16.9	19.2

192530 1998 SE_{52} 1 24.6 275°.27 2°.9/23.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 54.28	+24 9.8	1.453	2.301	15.7	20.8
1 2	8 48.39	+24 44.1	1.368	2.284	11.6	20.5
1 12	8 39.25	+25 22.4	1.305	2.266	6.9	20.2
1 22	8 27.74	+25 57.5	1.269	2.249	3.0	19.9
2 1	8 15.37	+26 22.1	1.260	2.231	5.6	20.0
2 11	8 3.95	+26 31.7	1.277	2.213	10.7	20.2
2 21	7 55.03	+26 25.5	1.318	2.195	15.5	20.5
3 2	7 49.65	+26 5.5	1.379	2.176	19.5	20.7

125366 2001 VS_{70} 1 24.6 31°.81 0°.7/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.60	+16 26.3	1.195	2.048	18.0	20.2
1 2	8 45.58	+16 39.3	1.138	2.056	13.2	19.9
1 12	8 37.44	+17 4.8	1.103	2.065	7.7	19.6
1 22	8 27.31	+17 37.8	1.092	2.075	1.9	19.3
2 1	8 16.80	+18 12.2	1.107	2.085	4.3	19.5
2 11	8 7.65	+18 42.2	1.147	2.096	9.9	19.8
2 21	8 1.19	+19 4.4	1.209	2.108	14.8	20.2
3 2	7 58.18	+19 17.3	1.291	2.120	18.9	20.5

298952 2004 TN_{319} 1 24.6 27°.07 0°.8/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.59	+16 4.1	1.179	2.034	18.1	20.2
1 2	8 44.87	+16 20.4	1.123	2.042	13.3	20.0
1 12	8 37.04	+16 50.1	1.089	2.051	7.8	19.7
1 22	8 27.23	+17 28.0	1.078	2.061	1.9	19.4
2 1	8 17.02	+18 7.6	1.092	2.071	4.3	19.6
2 11	8 8.17	+18 42.9	1.132	2.082	9.9	19.9
2 21	8 1.99	+19 9.9	1.194	2.095	14.9	20.2
3 2	7 59.24	+19 26.7	1.276	2.107	18.9	20.5

464805 2004 QS_{13} 1 24.6 99°.83 4°.6/21.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.14	+30 45.8	2.045	2.881	12.3	21.3
1 2	8 46.50	+31 41.7	1.992	2.898	9.1	21.1
1 12	8 37.59	+32 33.7	1.964	2.914	6.1	21.0
1 22	8 27.31	+33 15.1	1.965	2.930	4.6	20.9
2 1	8 16.81	+33 41.1	1.995	2.946	6.1	21.0
2 11	8 7.33	+33 49.6	2.053	2.961	8.9	21.2
2 21	7 59.84	+33 41.6	2.136	2.976	11.9	21.4
3 2	7 54.94	+33 19.9	2.241	2.991	14.4	21.6

239308 2007 QU_{5} 1 24.6 142°.12 0°.3/24.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.75	+18 36.1	2.019	2.843	12.9	21.4
1 2	8 46.82	+19 1.5	1.952	2.856	9.4	21.2
1 12	8 37.75	+19 32.8	1.910	2.869	5.4	20.9
1 22	8 27.35	+20 5.7	1.898	2.881	1.1	20.7
2 1	8 16.68	+20 36.1	1.916	2.892	3.3	20.8
2 11	8 6.90	+21 0.7	1.964	2.902	7.3	21.1
2 21	7 58.94	+21 17.6	2.039	2.911	11.0	21.4
3 2	7 53.43	+21 26.6	2.137	2.920	14.0	21.6

452517 2004 RY_{335} 1 24.6 62°.82 1°.4/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.92	+14 57.6	1.341	2.181	17.2	21.5
1 2	8 46.85	+15 3.5	1.290	2.200	12.7	21.3
1 12	8 37.98	+15 21.8	1.260	2.218	7.5	21.1
1 22	8 27.40	+15 48.3	1.255	2.237	2.3	20.8
2 1	8 16.62	+16 17.9	1.278	2.256	4.0	21.0
2 11	8 7.19	+16 45.7	1.328	2.275	9.1	21.3
2 21	8 0.27	+17 8.5	1.401	2.294	13.6	21.6
3 2	7 56.52	+17 24.4	1.495	2.313	17.3	21.9

18515 1996 TL_{14} 1 24.6 91°.17 5°.7/21.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.71	+33 56.9	1.878	2.714	13.2	18.1
1 2	8 48.56	+34 42.0	1.824	2.726	10.1	17.9
1 12	8 38.84	+35 19.7	1.795	2.739	7.1	17.8
1 22	8 27.58	+35 42.9	1.793	2.752	5.7	17.7
2 1	8 16.13	+35 46.9	1.819	2.764	7.1	17.8
2 11	8 5.91	+35 30.7	1.873	2.776	10.0	18.0
2 21	7 58.00	+34 56.9	1.951	2.788	12.9	18.2
3 2	7 53.04	+34 9.8	2.051	2.800	15.5	18.4

31677 Audreyglende 1 24.6 285°.15 4°.2/22.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.86	+27 13.5	1.489	2.339	15.3	18.6
1 2	8 47.94	+27 56.7	1.414	2.330	11.3	18.3
1 12	8 38.88	+28 40.2	1.362	2.321	7.1	18.0
1 22	8 27.65	+29 16.2	1.337	2.312	4.2	17.8
2 1	8 15.78	+29 37.3	1.338	2.303	6.4	17.9
2 11	8 5.02	+29 40.0	1.366	2.295	10.8	18.2
2 21	7 56.80	+29 24.6	1.417	2.286	15.1	18.4
3 2	7 52.01	+28 54.4	1.488	2.278	18.7	18.6

257809 2000 FB_{5} 1 24.6 186°.85 2°.5/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.29	+10 25.9	2.110	2.918	13.0	21.6
1 2	8 43.60	+10 36.9	2.027	2.917	9.8	21.4
1 12	8 35.94	+11 0.2	1.969	2.917	6.3	21.2
1 22	8 26.99	+11 33.7	1.940	2.916	3.0	21.0
2 1	8 17.65	+12 14.3	1.940	2.914	3.5	21.0
2 11	8 8.96	+12 57.9	1.970	2.912	7.0	21.2
2 21	8 1.79	+13 40.6	2.027	2.910	10.5	21.4
3 2	7 56.80	+14 19.6	2.108	2.907	13.6	21.6

166992 2003 PX_1 1 24.6 132°.22 0°.4/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 52.48	+16 0.5	1.954	2.777	13.3	21.3
1 2	8 45.95	+16 31.9	1.889	2.791	9.7	21.1
1 12	8 37.27	+17 12.0	1.849	2.806	5.7	20.9
1 22	8 27.26	+17 56.6	1.837	2.819	1.3	20.7
2 1	8 16.97	+18 41.0	1.855	2.832	3.2	20.8
2 11	8 7.56	+19 20.9	1.904	2.845	7.3	21.1
2 21	7 59.96	+19 53.7	1.979	2.856	11.0	21.3
3 2	7 54.80	+20 18.1	2.078	2.867	14.1	21.6

61469 2000 QJ_{35} 1 24.6 216°.96 1°.2/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.55	+15 7.0	1.822	2.645	14.1	19.4
1 2	8 46.33	+15 16.0	1.736	2.639	10.5	19.2
1 12	8 37.68	+15 34.7	1.676	2.632	6.3	18.9
1 22	8 27.38	+16 0.1	1.642	2.624	1.9	18.6
2 1	8 16.54	+16 28.3	1.638	2.616	3.5	18.7
2 11	8 6.47	+16 55.3	1.664	2.607	8.0	18.9
2 21	7 58.26	+17 18.3	1.715	2.597	12.1	19.2
3 2	7 52.71	+17 35.5	1.789	2.587	15.7	19.4

331409 2012 FQ_{47} 1 24.6 219°.23 5°.0/21.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.39	+34 4.0	2.432	3.257	10.9	21.5
1 2	8 47.41	+34 55.5	2.351	3.248	8.4	21.3
1 12	8 38.19	+35 41.8	2.297	3.237	6.0	21.1
1 22	8 27.48	+36 16.9	2.271	3.226	5.0	21.0
2 1	8 16.32	+36 36.0	2.275	3.214	6.3	21.1
2 11	8 5.89	+36 37.1	2.309	3.202	8.8	21.2
2 21	7 57.20	+36 21.0	2.368	3.189	11.5	21.4
3 2	7 50.95	+35 50.6	2.449	3.176	13.9	21.5

409034 2003 MA_2 1 24.6 139°.19 3°.1/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.52	+ 9 43.8	2.262	3.054	12.8	22.8
1 2	8 47.08	+ 9 23.1	2.191	3.071	9.7	22.7
1 12	8 37.78	+ 9 12.7	2.146	3.087	6.4	22.5
1 22	8 27.36	+ 9 11.6	2.131	3.102	3.5	22.3
2 1	8 16.75	+ 9 18.2	2.147	3.117	3.9	22.4
2 11	8 6.95	+ 9 30.1	2.194	3.130	6.8	22.6
2 21	7 58.74	+ 9 44.9	2.269	3.142	10.0	22.8
3 2	7 52.70	+10 0.0	2.369	3.154	12.7	23.0

429952 2012 UZ_{113} 1 24.6 188°.81 0°.3/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.41	+19 6.8	2.620	3.444	10.3	21.6
1 2	8 41.95	+19 26.9	2.539	3.444	7.5	21.4
1 12	8 34.87	+19 51.4	2.484	3.443	4.3	21.2
1 22	8 26.76	+20 17.4	2.459	3.442	0.9	21.0
2 1	8 18.37	+20 41.9	2.465	3.441	2.6	21.1
2 11	8 10.54	+21 2.4	2.501	3.439	6.0	21.3
2 21	8 3.97	+21 17.3	2.565	3.437	9.0	21.5
3 2	7 59.20	+21 25.9	2.653	3.435	11.6	21.7

502285 2015 BP_{140} 1 24.6 121°.71 4°.0/22.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.40	+31 14.2	2.207	3.039	11.6	21.2
1 2	8 46.60	+31 35.5	2.138	3.042	8.7	21.1
1 12	8 37.63	+31 51.9	2.094	3.044	5.7	20.9
1 22	8 27.35	+31 58.5	2.078	3.047	4.0	20.8
2 1	8 16.83	+31 51.8	2.093	3.049	5.4	20.9
2 11	8 7.24	+31 30.9	2.136	3.051	8.3	21.0
2 21	7 59.52	+30 57.2	2.206	3.054	11.2	21.2
3 2	7 54.26	+30 13.3	2.298	3.056	13.8	21.4

267423 2002 CG_{41} 1 24.6 25°.14 7°.8/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.04	− 1 20.0	1.475	2.267	18.4	20.2
1 2	8 41.02	− 1 28.0	1.413	2.276	15.1	20.0
1 12	8 34.64	− 1 7.5	1.370	2.286	11.6	19.8
1 22	8 26.74	− 0 18.3	1.350	2.298	8.6	19.6
2 1	8 18.48	+ 0 56.2	1.355	2.310	7.9	19.6
2 11	8 11.16	+ 2 28.4	1.386	2.323	9.9	19.8
2 21	8 5.79	+ 4 8.8	1.441	2.336	13.1	20.0
3 2	8 3.07	+ 5 48.6	1.519	2.351	16.4	20.2

27520 2000 HL_{26} 1 24.6 118°.88 0°.9/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.25	+14 45.9	2.440	3.257	11.1	18.8
1 2	8 41.85	+15 7.5	2.368	3.267	8.2	18.6
1 12	8 34.82	+15 36.8	2.322	3.277	4.9	18.4
1 22	8 26.76	+16 11.1	2.305	3.286	1.5	18.2
2 1	8 18.47	+16 47.2	2.319	3.296	2.6	18.3
2 11	8 10.79	+17 21.9	2.363	3.305	6.0	18.5
2 21	8 4.45	+17 52.6	2.434	3.314	9.1	18.7
3 2	7 59.98	+18 17.8	2.531	3.322	11.8	18.9

236794 2007 PZ_{41} 1 24.6 230°.60 0°.8/25.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.12	+15 26.3	1.827	2.652	14.0	21.7
1 2	8 46.10	+15 48.5	1.738	2.641	10.4	21.5
1 12	8 37.62	+16 21.1	1.673	2.630	6.2	21.2
1 22	8 27.41	+17 0.6	1.635	2.618	1.7	20.9
2 1	8 16.58	+17 42.3	1.627	2.605	3.5	21.0
2 11	8 6.45	+18 21.4	1.649	2.591	8.1	21.2
2 21	7 58.14	+18 54.6	1.696	2.577	12.3	21.4
3 2	7 52.50	+19 20.0	1.766	2.563	15.9	21.6

87856 2000 SM_{220} 1 24.6 167°.17 5°.6/20.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 53.60	+35 3.5	2.368	3.195	11.1	20.7
1 2	8 46.84	+36 13.4	2.304	3.200	8.6	20.5
1 12	8 37.86	+37 17.3	2.267	3.203	6.4	20.4
1 22	8 27.42	+38 8.6	2.258	3.207	5.6	20.3
2 1	8 16.61	+38 42.1	2.279	3.210	6.9	20.4
2 11	8 6.62	+38 55.7	2.328	3.212	9.2	20.6
2 21	7 58.43	+38 50.4	2.402	3.214	11.7	20.8
3 2	7 52.73	+38 29.3	2.498	3.215	13.9	20.9

277195 2005 QN_{49} 1 24.6 134°.30 0°.3/24.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.85	+15 21.0	1.715	2.541	14.7	21.6
1 2	8 47.22	+16 8.4	1.651	2.555	10.8	21.4
1 12	8 38.14	+17 7.2	1.611	2.569	6.3	21.2
1 22	8 27.49	+18 11.8	1.600	2.582	1.4	20.9
2 1	8 16.49	+19 15.8	1.618	2.595	3.5	21.1
2 11	8 6.47	+20 13.4	1.665	2.607	8.1	21.4
2 21	7 58.52	+21 0.9	1.739	2.617	12.2	21.6
3 2	7 53.34	+21 37.0	1.835	2.627	15.6	21.9

149259 2002 TQ_{29} 1 24.6 85°.91 2°.4/23.5 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.83	+23 41.6	1.689	2.531	14.1	20.0
1 2	8 46.55	+24 20.0	1.631	2.545	10.2	19.7
1 12	8 37.75	+25 0.9	1.598	2.558	6.0	19.5
1 22	8 27.41	+25 37.9	1.592	2.572	2.5	19.3
2 1	8 16.80	+26 5.8	1.614	2.585	4.7	19.5
2 11	8 7.31	+26 21.2	1.664	2.598	8.8	19.8
2 21	8 0.01	+26 23.8	1.740	2.611	12.6	20.0
3 2	7 55.55	+26 14.9	1.837	2.624	15.8	20.3

22533 Krishnan 1 24.6 167°.06 2°.9/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.99	+ 9 25.5	2.074	2.876	13.4	19.2
1 2	8 44.83	+ 9 32.3	1.995	2.881	10.2	19.0
1 12	8 36.66	+ 9 52.2	1.941	2.886	6.6	18.7
1 22	8 27.19	+10 23.1	1.915	2.890	3.4	18.5
2 1	8 17.36	+11 2.1	1.920	2.893	3.8	18.6
2 11	8 8.24	+11 45.0	1.954	2.895	7.1	18.8
2 21	8 0.71	+12 27.9	2.015	2.897	10.6	19.0
3 2	7 55.43	+13 7.7	2.100	2.898	13.7	19.2

104584 2000 GK_{84} 1 24.6 357°.08 5°.8/20.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.09	+31 44.8	1.807	2.655	13.1	19.1
1 2	8 44.09	+33 6.7	1.743	2.654	9.9	18.9
1 12	8 36.51	+34 25.9	1.704	2.652	7.0	18.7
1 22	8 27.18	+35 33.7	1.691	2.651	5.9	18.6
2 1	8 17.36	+36 22.9	1.706	2.651	7.6	18.7
2 11	8 8.45	+36 49.8	1.748	2.651	10.6	18.9
2 21	8 1.63	+36 54.6	1.813	2.651	13.7	19.1
3 2	7 57.67	+36 40.3	1.898	2.652	16.5	19.3

815 Coppelia 1 24.7 4°.43 8°.0/19.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.33	+35 52.1	1.610	2.457	14.5	14.6
1 2	8 46.86	+37 29.6	1.553	2.457	11.4	14.4
1 12	8 38.28	+38 59.9	1.519	2.457	8.8	14.3
1 22	8 27.58	+40 12.2	1.511	2.457	8.1	14.2
2 1	8 16.31	+40 57.9	1.530	2.458	9.8	14.3
2 11	8 6.21	+41 13.8	1.573	2.460	12.7	14.5
2 21	7 58.69	+41 2.2	1.638	2.461	15.7	14.7
3 2	7 54.60	+40 28.3	1.722	2.463	18.4	14.9

170389 2003 SD_{298} 1 24.7 154°.16 0°.5/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.17	+20 13.1	2.163	2.984	12.3	21.2
1 2	8 47.76	+20 22.4	2.091	2.994	8.9	21.0
1 12	8 38.29	+20 35.0	2.046	3.004	5.1	20.8
1 22	8 27.53	+20 47.6	2.030	3.013	1.1	20.5
2 1	8 16.53	+20 56.8	2.045	3.020	3.2	20.7
2 11	8 6.40	+21 0.6	2.091	3.027	7.1	20.9
2 21	7 58.03	+20 58.2	2.164	3.034	10.5	21.2
3 2	7 52.04	+20 49.8	2.261	3.039	13.5	21.4

450310 2004 RP_{175} 1 24.7 103°.22 4°.3/26.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.85	+ 7 2.0	1.659	2.463	16.1	21.9
1 2	8 46.39	+ 6 57.9	1.600	2.484	12.4	21.7
1 12	8 37.60	+ 7 11.4	1.564	2.504	8.4	21.5
1 22	8 27.39	+ 7 40.8	1.554	2.523	4.9	21.4
2 1	8 16.95	+ 8 22.4	1.573	2.542	5.0	21.4
2 11	8 7.57	+ 9 11.1	1.619	2.561	8.3	21.7
2 21	8 0.21	+10 1.5	1.692	2.579	12.0	21.9
3 2	7 55.53	+10 49.3	1.788	2.596	15.3	22.2

194433 2001 VY_{82} 1 24.7 47°.27 0°.1/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.62	+18 52.8	1.212	2.065	17.8	20.1
1 2	8 47.69	+18 56.6	1.160	2.078	13.0	19.9
1 12	8 38.62	+19 8.7	1.130	2.093	7.5	19.6
1 22	8 27.62	+19 24.0	1.124	2.108	1.6	19.3
2 1	8 16.38	+19 37.5	1.145	2.123	4.4	19.5
2 11	8 6.67	+19 45.3	1.191	2.139	9.9	19.9
2 21	7 59.75	+19 45.7	1.260	2.155	14.7	20.2
3 2	7 56.32	+19 38.8	1.349	2.171	18.6	20.5

316873 2000 QU_{223} 1 24.7 200°.35 3°.1/23.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 54.66	+28 30.0	2.267	3.095	11.5	20.8
1 2	8 47.52	+28 51.2	2.188	3.092	8.5	20.6
1 12	8 38.22	+29 9.7	2.134	3.088	5.3	20.4
1 22	8 27.54	+29 20.8	2.110	3.084	3.2	20.3
2 1	8 16.53	+29 21.0	2.117	3.079	4.7	20.4
2 11	8 6.34	+29 8.5	2.153	3.074	7.9	20.6
2 21	7 57.93	+28 44.3	2.216	3.068	11.0	20.8
3 2	7 51.95	+28 10.5	2.303	3.062	13.8	20.9

14751 2688 P–L 1 24.7 151°.25 0°.1/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.81	+17 35.0	2.447	3.271	10.9	20.2
1 2	8 42.32	+17 59.6	2.371	3.275	8.0	20.0
1 12	8 35.14	+18 30.1	2.321	3.279	4.6	19.8
1 22	8 26.88	+19 3.5	2.301	3.284	1.0	19.5
2 1	8 18.35	+19 36.2	2.311	3.287	2.7	19.7
2 11	8 10.43	+20 5.3	2.351	3.291	6.2	19.9
2 21	8 3.85	+20 28.9	2.419	3.294	9.3	20.1
3 2	7 59.19	+20 45.7	2.511	3.297	12.0	20.3

221158 2005 TD_{101} 1 24.7 349°.68 7°.0/20.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.93	+35 40.8	1.776	2.615	13.7	20.0
1 2	8 47.72	+36 49.9	1.713	2.614	10.7	19.8
1 12	8 38.63	+37 51.5	1.675	2.614	8.0	19.7
1 22	8 27.66	+38 36.7	1.663	2.613	7.0	19.6
2 1	8 16.23	+38 58.9	1.678	2.613	8.5	19.7
2 11	8 5.94	+38 56.0	1.719	2.612	11.4	19.9
2 21	7 58.04	+38 30.2	1.784	2.612	14.4	20.1
3 2	7 53.33	+37 46.3	1.868	2.612	17.1	20.2

312836 2011 UE_{13} 1 24.7 181°.35 1°.4/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.97	+21 19.3	2.058	2.885	12.5	22.3
1 2	8 47.16	+21 56.3	1.980	2.887	9.1	22.1
1 12	8 38.09	+22 37.8	1.929	2.888	5.3	21.9
1 22	8 27.53	+23 18.6	1.906	2.888	1.6	21.6
2 1	8 16.56	+23 53.9	1.914	2.887	3.8	21.8
2 11	8 6.38	+24 20.1	1.952	2.885	7.7	22.0
2 21	7 57.99	+24 35.8	2.017	2.883	11.4	22.2
3 2	7 52.09	+24 41.2	2.105	2.879	14.4	22.4

95995 2004 NC_{11} 1 24.7 148°.91 0°.5/25.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.97	+15 25.4	3.037	3.852	9.3	20.7
1 2	8 39.99	+15 57.0	2.959	3.858	6.8	20.5
1 12	8 33.70	+16 34.9	2.908	3.864	4.0	20.3
1 22	8 26.57	+17 16.5	2.887	3.870	1.0	20.1
2 1	8 19.22	+17 58.9	2.898	3.875	2.2	20.2
2 11	8 12.32	+18 39.4	2.940	3.880	5.1	20.4
2 21	8 6.44	+19 15.7	3.010	3.885	7.7	20.6
3 2	8 2.05	+19 46.4	3.106	3.890	10.0	20.8

499999 2011 PZ_{3} 1 24.7 189°.56 3°.2/27.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.58	+ 6 4.0	3.033	3.813	10.1	23.0
1 2	8 40.43	+ 6 2.7	2.944	3.812	7.9	22.8
1 12	8 33.96	+ 6 12.0	2.880	3.810	5.5	22.6
1 22	8 26.64	+ 6 31.1	2.845	3.808	3.5	22.5
2 1	8 19.07	+ 6 58.5	2.841	3.806	3.5	22.5
2 11	8 11.91	+ 7 31.8	2.868	3.803	5.5	22.6
2 21	8 5.74	+ 8 8.2	2.923	3.800	7.9	22.8
3 2	8 1.03	+ 8 45.1	3.004	3.796	10.1	22.9

435485 2008 GV_{4} 1 24.7 299°.62 3°.8/27.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.03	+ 4 21.6	2.596	3.379	11.5	21.6
1 2	8 39.52	+ 4 28.2	2.509	3.377	9.1	21.5
1 12	8 33.52	+ 4 48.8	2.447	3.375	6.5	21.3
1 22	8 26.55	+ 5 22.5	2.412	3.372	4.3	21.1
2 1	8 19.30	+ 6 7.1	2.407	3.370	4.1	21.1
2 11	8 12.51	+ 6 59.2	2.431	3.368	6.2	21.2
2 21	8 6.83	+ 7 55.0	2.483	3.366	8.8	21.4
3 2	8 2.80	+ 8 50.7	2.561	3.364	11.4	21.6

472659 2015 DY_{219} 1 24.7 255°.47 8°.4/31.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.77	−14 31.3	3.101	3.753	12.4	22.1
1 2	8 39.97	−14 59.9	2.993	3.733	11.1	21.9
1 12	8 33.78	−15 9.0	2.906	3.712	9.8	21.8
1 22	8 26.62	−14 56.5	2.842	3.691	8.8	21.7
2 1	8 19.09	−14 21.7	2.804	3.670	8.4	21.6
2 11	8 11.86	−13 26.2	2.792	3.648	8.8	21.6
2 21	8 5.55	−12 13.6	2.807	3.625	10.0	21.7
3 2	8 0.68	−10 49.1	2.846	3.602	11.5	21.8

239512 2007 VM_{275} 1 24.7 222°.80 1°.9/23.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.78	+24 4.8	2.589	3.421	10.1	21.1
1 2	8 42.36	+24 44.6	2.507	3.415	7.4	20.9
1 12	8 35.21	+25 26.3	2.451	3.410	4.3	20.7
1 22	8 26.93	+26 5.8	2.425	3.404	2.0	20.5
2 1	8 18.30	+26 39.4	2.430	3.398	3.6	20.6
2 11	8 10.22	+27 4.1	2.464	3.392	6.7	20.8
2 21	8 3.45	+27 18.8	2.526	3.385	9.6	21.0
3 2	7 58.59	+27 23.6	2.611	3.379	12.1	21.2

381994 2010 KD_{98} 1 24.7 317°.95 3°.7/21.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 48.30	+26 43.1	2.137	2.978	11.6	20.4
1 2	8 43.15	+28 4.2	2.065	2.976	8.5	20.2
1 12	8 35.84	+29 27.1	2.019	2.975	5.4	20.0
1 22	8 27.08	+30 45.1	2.002	2.973	3.7	19.9
2 1	8 17.85	+31 51.5	2.015	2.972	5.5	20.0
2 11	8 9.29	+32 41.9	2.056	2.970	8.6	20.2
2 21	8 2.36	+33 14.9	2.123	2.969	11.7	20.4
3 2	7 57.79	+33 31.2	2.212	2.968	14.4	20.6

413081 2001 TP_{23} 1 24.7 151°.99 0°.5/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.35	+19 21.2	2.349	3.171	11.4	22.1
1 2	8 44.92	+19 48.0	2.277	3.181	8.2	21.9
1 12	8 36.65	+20 19.5	2.231	3.190	4.7	21.7
1 22	8 27.23	+20 51.8	2.215	3.198	1.0	21.4
2 1	8 17.54	+21 21.5	2.230	3.206	3.0	21.6
2 11	8 8.56	+21 45.6	2.276	3.213	6.6	21.8
2 21	8 1.10	+22 2.6	2.350	3.219	9.8	22.0
3 2	7 55.73	+22 12.0	2.447	3.225	12.5	22.2

308695 2006 EN_{12} 1 24.7 192°.04 0°.6/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.04	+19 4.8	1.968	2.795	13.0	21.9
1 2	8 46.57	+19 33.0	1.888	2.794	9.5	21.6
1 12	8 37.80	+20 7.5	1.833	2.792	5.5	21.4
1 22	8 27.50	+20 44.0	1.806	2.789	1.2	21.1
2 1	8 16.75	+21 17.8	1.810	2.786	3.5	21.2
2 11	8 6.78	+21 45.1	1.843	2.782	7.7	21.5
2 21	7 58.61	+22 3.9	1.903	2.777	11.6	21.7
3 2	7 52.97	+22 13.8	1.986	2.772	14.8	21.9

109916 2001 SE_{27} 1 24.7 149°.54 1°.5/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.39	+21 43.2	1.935	2.770	12.9	20.5
1 2	8 45.35	+22 15.1	1.863	2.774	9.4	20.3
1 12	8 37.07	+22 51.0	1.817	2.778	5.4	20.1
1 22	8 27.34	+23 26.1	1.799	2.781	1.7	19.8
2 1	8 17.25	+23 55.7	1.811	2.784	3.9	20.0
2 11	8 8.02	+24 16.3	1.851	2.787	7.9	20.2
2 21	8 0.63	+24 26.6	1.918	2.790	11.6	20.5
3 2	7 55.75	+24 27.0	2.007	2.793	14.7	20.7

13814 1998 YG_{3} 1 24.7 135°.55 2°.2/23.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.48	+23 47.3	2.358	3.192	10.9	17.9
1 2	8 42.97	+24 44.3	2.288	3.198	7.9	17.7
1 12	8 35.59	+25 43.8	2.245	3.204	4.7	17.5
1 22	8 27.02	+26 40.9	2.231	3.209	2.3	17.3
2 1	8 18.13	+27 30.5	2.248	3.215	4.0	17.5
2 11	8 9.88	+28 9.3	2.294	3.220	7.2	17.7
2 21	8 3.11	+28 35.8	2.367	3.225	10.2	17.9
3 2	7 58.43	+28 50.2	2.464	3.230	12.8	18.1

274294 2008 QR_{17} 1 24.7 193°.10 0°.8/25.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.51	+14 57.4	2.442	3.258	11.2	22.2
1 2	8 42.88	+15 21.4	2.357	3.256	8.3	22.0
1 12	8 35.52	+15 53.4	2.299	3.254	4.9	21.8
1 22	8 27.01	+16 30.6	2.269	3.251	1.4	21.5
2 1	8 18.15	+17 9.6	2.271	3.248	2.7	21.6
2 11	8 9.85	+17 47.1	2.303	3.244	6.2	21.8
2 21	8 2.87	+18 20.3	2.363	3.240	9.5	22.0
3 2	7 57.82	+18 47.5	2.447	3.236	12.3	22.2

283892 2004 BY_{153} 1 24.7 278°.37 3°.0/22.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.36	+27 55.1	2.295	3.130	11.1	21.0
1 2	8 44.41	+28 20.2	2.217	3.126	8.2	20.8
1 12	8 36.45	+28 43.6	2.166	3.122	5.1	20.6
1 22	8 27.21	+29 0.9	2.143	3.117	3.0	20.4
2 1	8 17.65	+29 8.4	2.150	3.113	4.6	20.5
2 11	8 8.83	+29 4.3	2.186	3.109	7.7	20.7
2 21	8 1.64	+28 48.8	2.249	3.105	10.7	20.9
3 2	7 56.69	+28 23.3	2.334	3.101	13.4	21.1

120293 2004 JQ_{9} 1 24.7 158°.18 0°.1/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.72	+16 51.2	2.047	2.874	12.6	20.4
1 2	8 44.03	+17 27.3	1.972	2.878	9.2	20.2
1 12	8 36.28	+18 11.7	1.923	2.882	5.3	20.0
1 22	8 27.18	+19 0.4	1.902	2.885	1.1	19.7
2 1	8 17.73	+19 48.5	1.911	2.888	3.1	19.8
2 11	8 8.99	+20 31.7	1.950	2.891	7.2	20.1
2 21	8 1.89	+21 7.3	2.015	2.893	10.8	20.3
3 2	7 57.09	+21 33.7	2.104	2.895	13.9	20.5

430619 2003 CX 1 24.7 321°.25 3°.3/23.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.27	+29 21.9	2.025	2.861	12.4	20.3
1 2	8 46.80	+29 22.0	1.939	2.847	9.2	20.0
1 12	8 37.95	+29 17.6	1.877	2.833	5.8	19.8
1 22	8 27.55	+29 4.4	1.844	2.819	3.4	19.6
2 1	8 16.75	+28 39.1	1.841	2.806	5.0	19.7
2 11	8 6.85	+28 1.0	1.866	2.793	8.5	19.9
2 21	7 58.88	+27 11.8	1.917	2.780	12.0	20.1
3 2	7 53.54	+26 14.3	1.991	2.768	15.0	20.2

58083 5459 T-$_2$ 1 24.7 276°.78 3°.2/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 52.23	+12 6.5	1.513	2.340	16.3	18.7
1 2	8 46.62	+11 45.2	1.424	2.325	12.4	18.4
1 12	8 38.16	+11 36.4	1.358	2.309	8.0	18.1
1 22	8 27.65	+11 39.2	1.317	2.294	3.8	17.9
2 1	8 16.38	+11 51.3	1.303	2.278	4.7	17.9
2 11	8 5.90	+12 9.1	1.316	2.262	9.3	18.1
2 21	7 57.56	+12 28.8	1.354	2.246	14.0	18.3
3 2	7 52.30	+12 47.2	1.413	2.230	18.2	18.5

239514 2007 VN_{298} 1 24.7 25°.51 3°.9/21.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.20	+24 27.7	1.839	2.687	12.9	19.2
1 2	8 42.56	+26 19.4	1.779	2.695	9.4	19.0
1 12	8 35.59	+28 15.8	1.745	2.704	5.8	18.8
1 22	8 27.06	+30 7.6	1.740	2.713	3.9	18.7
2 1	8 18.06	+31 46.0	1.764	2.723	5.9	18.9
2 11	8 9.84	+33 4.9	1.817	2.733	9.4	19.1
2 21	8 3.47	+34 1.9	1.895	2.744	12.7	19.3
3 2	7 59.69	+34 37.8	1.994	2.756	15.5	19.6

217096 2001 VX_{122} 1 24.7 92°.71 3°.5/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.54	+12 45.8	1.933	2.734	14.3	19.4
1 2	8 50.93	+11 33.6	1.864	2.750	10.8	19.2
1 12	8 40.10	+10 28.1	1.822	2.766	7.0	19.0
1 22	8 27.97	+ 9 30.3	1.809	2.781	3.9	18.9
2 1	8 15.72	+ 8 41.1	1.828	2.797	4.5	18.9
2 11	8 4.56	+ 8 0.5	1.878	2.812	7.9	19.2
2 21	7 55.44	+ 7 27.9	1.955	2.827	11.4	19.4
3 2	7 48.94	+ 7 1.6	2.057	2.841	14.4	19.6

380219 2001 QN_{330} 1 24.7 85°.89 1°.9/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.28	+12 6.2	2.538	3.342	11.2	21.1
1 2	8 43.12	+12 5.6	2.482	3.371	8.3	21.0
1 12	8 35.47	+12 13.2	2.452	3.400	5.2	20.8
1 22	8 26.98	+12 27.3	2.452	3.429	2.3	20.7
2 1	8 18.41	+12 45.6	2.482	3.457	2.8	20.8
2 11	8 10.55	+13 5.7	2.543	3.484	5.7	21.0
2 21	8 4.05	+13 25.3	2.633	3.511	8.6	21.2
3 2	7 59.34	+13 42.7	2.747	3.538	11.0	21.4

419085 2009 SE_{126} 1 24.7 131°.72 1°.8/23.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.78	+23 15.8	1.979	2.815	12.6	21.3
1 2	8 45.59	+23 38.1	1.908	2.819	9.2	21.1
1 12	8 37.18	+24 2.4	1.863	2.823	5.3	20.8
1 22	8 27.38	+24 24.3	1.846	2.827	1.9	20.6
2 1	8 17.27	+24 39.5	1.858	2.831	3.9	20.8
2 11	8 8.04	+24 45.7	1.900	2.834	7.8	21.0
2 21	8 0.64	+24 42.1	1.967	2.838	11.4	21.2
3 2	7 55.74	+24 29.7	2.058	2.841	14.4	21.4

413053 2001 RY_{12} 1 24.7 129°.12 5°.2/22.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.85	+33 46.4	2.021	2.850	12.7	21.0
1 2	8 50.01	+34 18.2	1.961	2.860	9.6	20.8
1 12	8 39.69	+34 42.5	1.926	2.870	6.7	20.6
1 22	8 27.90	+34 53.2	1.919	2.880	5.2	20.5
2 1	8 15.94	+34 46.1	1.942	2.890	6.5	20.6
2 11	8 5.16	+34 20.6	1.993	2.899	9.3	20.8
2 21	7 56.62	+33 39.5	2.070	2.907	12.3	21.0
3 2	7 50.93	+32 46.9	2.169	2.916	14.9	21.2

96605 1999 AS_{10} 1 24.7 123°.79 0°.5/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.69	+16 15.8	2.257	3.080	11.7	19.9
1 2	8 43.05	+16 33.7	2.185	3.088	8.6	19.7
1 12	8 35.61	+16 58.6	2.139	3.096	5.0	19.5
1 22	8 27.04	+17 27.6	2.121	3.103	1.3	19.3
2 1	8 18.20	+17 57.3	2.134	3.111	2.8	19.4
2 11	8 10.06	+18 24.7	2.176	3.118	6.5	19.7
2 21	8 3.38	+18 47.3	2.246	3.125	9.8	19.9
3 2	7 58.76	+19 4.1	2.340	3.132	12.6	20.1

292851 2006 UL_{332} 1 24.7 192°.06 4°.6/28.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 44.76	+ 0 29.6	2.908	3.665	11.0	22.1
1 2	8 39.91	+ 0 32.3	2.818	3.663	9.0	22.0
1 12	8 33.71	+ 0 49.4	2.752	3.661	6.8	21.8
1 22	8 26.63	+ 1 20.7	2.714	3.659	5.0	21.7
2 1	8 19.28	+ 2 4.5	2.706	3.657	4.7	21.7
2 11	8 12.34	+ 2 58.0	2.727	3.654	6.2	21.8
2 21	8 6.40	+ 3 57.3	2.777	3.651	8.3	21.9
3 2	8 1.95	+ 4 58.6	2.853	3.647	10.5	22.1

195379 2002 FD_{40} 1 24.7 180°.57 2°.5/22.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.97	+24 58.3	2.329	3.162	11.1	20.3
1 2	8 44.12	+25 49.1	2.254	3.163	8.1	20.1
1 12	8 36.30	+26 41.6	2.205	3.163	4.8	19.9
1 22	8 27.20	+27 30.6	2.186	3.163	2.6	19.8
2 1	8 17.74	+28 11.5	2.197	3.163	4.3	19.9
2 11	8 8.94	+28 40.8	2.238	3.162	7.5	20.1
2 21	8 1.67	+28 57.7	2.306	3.161	10.5	20.3
3 2	7 56.58	+29 2.6	2.396	3.160	13.2	20.5

205637 2001 WC_{74} 1 24.7 157°.17 0°.9/25.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 46.62	+14 31.6	2.889	3.700	9.8	21.4
1 2	8 41.24	+14 50.5	2.810	3.706	7.2	21.2
1 12	8 34.45	+15 16.0	2.758	3.712	4.3	21.0
1 22	8 26.79	+15 45.9	2.736	3.717	1.4	20.8
2 1	8 18.90	+16 17.7	2.746	3.722	2.3	20.9
2 11	8 11.50	+16 48.6	2.786	3.727	5.3	21.1
2 21	8 5.20	+17 16.7	2.855	3.731	8.0	21.3
3 2	8 0.50	+17 40.5	2.949	3.735	10.4	21.5

164429 2006 BU_{261} 1 24.7 187°.31 1°.9/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.04	+10 31.0	2.060	2.866	13.3	21.0
1 2	8 45.02	+11 9.5	1.975	2.866	10.0	20.8
1 12	8 36.90	+12 2.3	1.916	2.865	6.3	20.6
1 22	8 27.35	+13 6.0	1.885	2.863	2.6	20.3
2 1	8 17.34	+14 15.8	1.885	2.861	3.3	20.4
2 11	8 7.96	+15 26.0	1.915	2.857	7.1	20.6
2 21	8 0.16	+16 31.8	1.973	2.853	10.9	20.8
3 2	7 54.64	+17 29.9	2.055	2.848	14.1	21.0

265770 2005 WX_{33} 1 24.7 44°.93 2°.7/23.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.21	+23 53.0	1.694	2.541	13.9	20.5
1 2	8 44.75	+24 39.5	1.633	2.549	10.1	20.2
1 12	8 36.82	+25 29.0	1.596	2.557	5.9	20.0
1 22	8 27.32	+26 15.0	1.586	2.565	2.7	19.8
2 1	8 17.49	+26 51.6	1.604	2.574	4.9	20.0
2 11	8 8.66	+27 14.9	1.650	2.583	8.9	20.3
2 21	8 1.92	+27 24.2	1.721	2.593	12.7	20.5
3 2	7 57.95	+27 20.5	1.813	2.602	15.9	20.7

5154 Leonov 1 24.7 182°.70 0°.9/24.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.81	+20 42.7	2.577	3.404	10.3	18.0
1 2	8 42.33	+21 13.4	2.497	3.404	7.5	17.8
1 12	8 35.18	+21 47.7	2.445	3.404	4.3	17.6
1 22	8 26.96	+22 22.4	2.421	3.404	1.2	17.3
2 1	8 18.45	+22 54.0	2.429	3.403	2.9	17.5
2 11	8 10.49	+23 19.5	2.467	3.402	6.2	17.7
2 21	8 3.84	+23 37.6	2.533	3.401	9.2	17.9
3 2	7 59.05	+23 47.7	2.623	3.400	11.8	18.1

423160 2004 EZ_{114} 1 24.7 324°.62 3°.0/23.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.59	+27 37.4	2.188	3.024	11.5	21.0
1 2	8 44.64	+28 0.5	2.113	3.022	8.5	20.8
1 12	8 36.62	+28 22.1	2.063	3.020	5.2	20.6
1 22	8 27.27	+28 37.6	2.042	3.017	3.0	20.5
2 1	8 17.62	+28 43.2	2.050	3.015	4.6	20.6
2 11	8 8.76	+28 37.2	2.088	3.013	7.8	20.7
2 21	8 1.59	+28 19.7	2.151	3.011	11.0	20.9
3 2	7 56.77	+27 52.5	2.238	3.009	13.8	21.1

278230 2007 EM_{108} 1 24.7 115°.53 3°.4/22.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.22	+26 51.9	1.970	2.810	12.5	20.6
1 2	8 45.29	+27 39.7	1.903	2.815	9.2	20.4
1 12	8 37.07	+28 27.5	1.862	2.819	5.7	20.2
1 22	8 27.38	+29 9.1	1.848	2.823	3.4	20.0
2 1	8 17.34	+29 39.4	1.864	2.827	5.2	20.1
2 11	8 8.18	+29 55.4	1.908	2.831	8.6	20.4
2 21	8 0.91	+29 56.8	1.977	2.835	11.9	20.6
3 2	7 56.20	+29 45.3	2.068	2.838	14.8	20.8

326122 2011 YA_{17} 1 24.7 63°.77 0°.1/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.50	+18 11.1	1.463	2.302	16.1	20.1
1 2	8 47.75	+18 30.3	1.420	2.332	11.6	19.9
1 12	8 38.43	+18 57.1	1.401	2.361	6.6	19.7
1 22	8 27.64	+19 26.5	1.408	2.391	1.4	19.4
2 1	8 16.81	+19 53.3	1.443	2.420	3.8	19.7
2 11	8 7.38	+20 13.7	1.506	2.449	8.6	20.0
2 21	8 0.38	+20 26.0	1.593	2.479	12.7	20.3
3 2	7 56.38	+20 30.1	1.702	2.507	16.1	20.6

415354 2013 JE_{42} 1 24.7 182°.01 5°.0/21.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.02	+30 48.3	2.161	2.995	11.8	20.9
1 2	8 46.66	+32 13.9	2.092	2.996	8.9	20.7
1 12	8 37.93	+33 37.8	2.049	2.996	6.1	20.5
1 22	8 27.59	+34 52.1	2.035	2.996	5.0	20.4
2 1	8 16.74	+35 50.2	2.052	2.995	6.6	20.5
2 11	8 6.64	+36 28.4	2.096	2.994	9.4	20.7
2 21	7 58.35	+36 46.5	2.167	2.992	12.3	20.9
3 2	7 52.66	+36 46.9	2.258	2.990	14.8	21.1

324573 2006 WR_{179} 1 24.7 358°.43 2°.6/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.69	+12 27.6	1.517	2.351	15.9	20.9
1 2	8 43.82	+12 22.7	1.444	2.349	12.0	20.7
1 12	8 36.40	+12 31.3	1.394	2.348	7.5	20.4
1 22	8 27.27	+12 51.4	1.369	2.347	3.3	20.2
2 1	8 17.66	+13 19.4	1.371	2.347	4.1	20.2
2 11	8 8.98	+13 50.6	1.399	2.348	8.6	20.5
2 21	8 2.38	+14 20.9	1.453	2.349	13.0	20.7
3 2	7 58.61	+14 46.9	1.527	2.350	16.8	21.0

147652 2004 JA_{35} 1 24.7 316.°24 0.°6/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 47.82	+17 50.2	1.542	2.389	15.0	19.6
1 2	8 43.42	+18 33.1	1.458	2.374	11.1	19.3
1 12	8 36.32	+19 27.8	1.397	2.359	6.4	19.0
1 22	8 27.29	+20 28.8	1.362	2.345	1.4	18.6
2 1	8 17.54	+21 29.1	1.354	2.331	4.1	18.8
2 11	8 8.56	+22 22.2	1.373	2.318	9.2	19.0
2 21	8 1.62	+23 3.9	1.417	2.305	13.8	19.3
3 2	7 57.65	+23 32.3	1.481	2.292	17.8	19.5

325624 2009 SZ_{263} 1 24.7 174.°74 6.°4/20.7 18

12 23	8 55.14	+37 1.9	2.169	2.996	12.0	20.8
1 2	8 48.22	+38 6.9	2.105	2.998	9.4	20.6
1 12	8 38.81	+39 3.9	2.067	2.999	7.2	20.5
1 22	8 27.79	+39 45.5	2.057	3.000	6.5	20.4
2 1	8 16.38	+40 6.5	2.075	3.001	7.7	20.5
2 11	8 5.94	+40 5.1	2.120	3.001	10.1	20.7
2 21	7 57.56	+39 43.2	2.190	3.001	12.7	20.8
3 2	7 51.96	+39 4.9	2.281	3.001	15.0	21.0

104091 2000 EA_{34} 1 24.7 187.°74 6.°7/20.4 18

12 23	8 56.64	+38 6.6	2.242	3.063	11.9	19.7
1 2	8 49.32	+39 14.3	2.175	3.063	9.4	19.5
1 12	8 39.46	+40 13.5	2.135	3.062	7.4	19.4
1 22	8 27.94	+40 56.7	2.122	3.060	6.7	19.4
2 1	8 15.98	+41 18.3	2.138	3.058	7.9	19.4
2 11	8 4.98	+41 16.8	2.182	3.055	10.2	19.6
2 21	7 56.04	+40 54.2	2.250	3.052	12.7	19.7
3 2	7 49.91	+40 14.6	2.339	3.048	14.9	19.9

196648 2003 SP_{25} 1 24.7 39.°46 1.°1/24.2 18

12 23	8 49.99	+21 13.7	1.789	2.630	13.5	20.2
1 2	8 44.41	+21 29.8	1.726	2.639	9.8	20.0
1 12	8 36.55	+21 49.9	1.688	2.649	5.6	19.8
1 22	8 27.30	+22 9.8	1.676	2.659	1.5	19.5
2 1	8 17.78	+22 25.4	1.694	2.669	3.7	19.7
2 11	8 9.24	+22 33.7	1.739	2.680	7.9	20.0
2 21	8 2.63	+22 33.9	1.810	2.691	11.7	20.3
3 2	7 58.58	+22 26.1	1.903	2.702	14.9	20.5

475500 2006 SO_{301} 1 24.7 62.°28 21.°3/ 7.2 18

12 23	8 50.07	−21 51.5	1.088	1.787	28.8	21.4
1 2	8 45.69	−23 49.7	1.038	1.793	26.7	21.3
1 12	8 37.87	−24 57.5	0.999	1.800	24.6	21.1
1 22	8 27.67	−25 3.9	0.973	1.807	22.7	21.0
2 1	8 16.73	−24 2.9	0.962	1.815	21.5	21.0
2 11	8 7.05	−21 59.4	0.967	1.822	21.4	21.0
2 21	8 0.21	−19 7.8	0.990	1.830	22.3	21.1
3 2	7 57.20	−15 47.7	1.029	1.838	24.0	21.2

201085 2002 GN_{58} 1 24.7 13.°56 0.°6/24.9 18

12 23	8 48.94	+16 28.9	1.182	2.039	17.9	19.7
1 2	8 44.55	+16 43.3	1.122	2.041	13.2	19.5
1 12	8 37.03	+17 10.7	1.083	2.045	7.8	19.2
1 22	8 27.45	+17 46.2	1.067	2.050	1.9	18.8
2 1	8 17.39	+18 23.3	1.077	2.056	4.3	19.0
2 11	8 8.61	+18 56.0	1.111	2.062	10.0	19.3
2 21	8 2.46	+19 20.6	1.169	2.070	15.0	19.7
3 2	7 59.76	+19 35.1	1.245	2.079	19.2	19.9

234946 2002 VE_{56} 1 24.7 91.°55 3.°7/22.1 18

12 23	8 49.47	+28 7.5	2.252	3.089	11.2	20.3
1 2	8 43.81	+29 12.0	2.192	3.101	8.3	20.1
1 12	8 36.14	+30 15.6	2.158	3.112	5.3	20.0
1 22	8 27.22	+31 12.3	2.154	3.124	3.7	19.9
2 1	8 18.00	+31 57.1	2.179	3.135	5.2	20.0
2 11	8 9.55	+32 26.9	2.232	3.146	8.1	20.2
2 21	8 2.74	+32 41.3	2.312	3.157	10.9	20.4
3 2	7 58.19	+32 41.7	2.414	3.168	13.4	20.6

372615 2009 VA_{34} 1 24.7 100.°75 2.°2/23.5 18

12 23	8 51.37	+23 57.7	2.013	2.850	12.4	21.3
1 2	8 45.24	+24 32.3	1.950	2.861	9.0	21.1
1 12	8 36.98	+25 8.6	1.913	2.872	5.3	20.9
1 22	8 27.40	+25 41.5	1.904	2.883	2.3	20.8
2 1	8 17.56	+26 6.6	1.924	2.894	4.2	20.9
2 11	8 8.62	+26 21.2	1.974	2.905	7.8	21.1
2 21	8 1.49	+26 24.5	2.049	2.916	11.2	21.4
3 2	7 56.80	+26 17.6	2.148	2.926	14.0	21.6

83518 2001 SZ_{135} 1 24.7 247.°81 0.°5/25.0 17

12 23	8 47.24	+16 15.1	2.410	3.232	11.1	20.3
1 2	8 42.04	+16 32.3	2.322	3.225	8.2	20.1
1 12	8 35.10	+16 56.4	2.261	3.218	4.8	19.9
1 22	8 27.00	+17 24.8	2.228	3.210	1.2	19.6
2 1	8 18.55	+17 54.5	2.226	3.203	2.7	19.7
2 11	8 10.64	+18 22.2	2.253	3.196	6.3	20.0
2 21	8 4.04	+18 45.8	2.308	3.188	9.6	20.2
3 2	7 59.36	+19 3.8	2.388	3.180	12.4	20.3

204822 2007 PZ_{10} 1 24.7 139.°49 0.°3/24.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 52.84	+17 39.3	1.867	2.695	13.6	21.0
1 2	8 46.43	+18 16.1	1.800	2.706	9.9	20.8
1 12	8 37.73	+19 1.0	1.758	2.717	5.7	20.6
1 22	8 27.57	+19 49.0	1.744	2.727	1.2	20.3
2 1	8 17.08	+20 34.9	1.760	2.736	3.4	20.4
2 11	8 7.49	+21 14.2	1.805	2.745	7.7	20.7
2 21	7 59.79	+21 44.5	1.877	2.753	11.6	21.0
3 2	7 54.67	+22 5.0	1.972	2.761	14.8	21.2

52444 1994 TQ_2 1 24.7 125.°98 4.°5/22.0 18

12 23	8 55.58	+30 39.4	2.120	2.950	12.1	19.9
1 2	8 48.29	+31 39.2	2.065	2.968	9.0	19.7
1 12	8 38.73	+32 35.1	2.037	2.986	6.0	19.6
1 22	8 27.78	+33 20.4	2.037	3.002	4.5	19.5
2 1	8 16.59	+33 50.1	2.068	3.018	6.0	19.6
2 11	8 6.42	+34 2.0	2.127	3.033	8.8	19.8
2 21	7 58.22	+33 57.2	2.212	3.048	11.7	20.1
3 2	7 52.63	+33 38.6	2.319	3.062	14.2	20.3

109758 2001 RW_{71} 1 24.7 74.°33 0.°1/24.7 18

12 23	8 50.78	+17 56.6	1.761	2.596	14.0	19.6
1 2	8 45.05	+18 10.9	1.691	2.601	10.2	19.4
1 12	8 36.99	+18 32.5	1.646	2.605	5.9	19.1
1 22	8 27.42	+18 57.6	1.627	2.610	1.3	18.8
2 1	8 17.51	+19 22.0	1.638	2.615	3.4	19.0
2 11	8 8.51	+19 42.0	1.677	2.620	7.9	19.3
2 21	8 1.45	+19 55.6	1.741	2.625	11.9	19.5
3 2	7 57.00	+20 1.9	1.828	2.630	15.2	19.8

230806 2004 FU_{116} 1 24.7 247.°01 1.°2/24.1 18

12 23	8 52.56	+18 44.6	1.599	2.438	15.0	20.7
1 2	8 46.91	+19 38.6	1.513	2.425	11.0	20.4
1 12	8 38.39	+20 43.9	1.450	2.411	6.4	20.1
1 22	8 27.79	+21 54.0	1.414	2.397	1.6	19.8
2 1	8 16.38	+23 1.1	1.407	2.382	4.4	19.9
2 11	8 5.72	+23 58.3	1.427	2.367	9.4	20.2
2 21	7 57.17	+24 41.8	1.473	2.351	14.1	20.4
3 2	7 51.71	+25 10.4	1.540	2.335	18.0	20.6

344047 4331 *P–L* 1 24.7 99.°57 0.°7/24.4 17

12 23	8 57.04	+19 8.5	1.446	2.283	16.3	21.7
1 2	8 49.81	+19 35.9	1.394	2.305	11.9	21.5
1 12	8 39.76	+20 10.4	1.366	2.326	6.8	21.2
1 22	8 28.00	+20 46.3	1.364	2.347	1.5	20.9
2 1	8 16.06	+21 17.4	1.391	2.368	4.1	21.2
2 11	8 5.52	+21 39.9	1.446	2.387	9.1	21.5
2 21	7 57.55	+21 52.1	1.525	2.406	13.4	21.8
3 2	7 52.79	+21 54.6	1.626	2.425	17.0	22.1

100231 Monceau 1 24.7 67.°56 0.°9/24.0 18

12 23	8 46.26	+21 25.3	2.942	3.768	9.2	20.2
1 2	8 40.90	+21 48.8	2.888	3.794	6.6	20.1
1 12	8 34.23	+22 14.5	2.861	3.820	3.8	19.9
1 22	8 26.79	+22 39.4	2.864	3.846	1.1	19.8
2 1	8 19.26	+23 1.1	2.898	3.872	2.6	19.9
2 11	8 12.33	+23 17.5	2.963	3.898	5.3	20.2
2 21	8 6.57	+23 27.8	3.056	3.924	7.9	20.4
3 2	8 2.39	+23 31.8	3.174	3.949	10.0	20.5

114028 2002 VK_3 1 24.7 197.°02 1.°8/23.7 18

12 23	8 53.05	+23 21.3	2.178	3.007	11.9	19.9
1 2	8 46.47	+23 50.1	2.097	3.004	8.7	19.7
1 12	8 37.74	+24 21.0	2.042	3.001	5.1	19.5
1 22	8 27.60	+24 49.4	2.016	2.997	1.9	19.2
2 1	8 17.06	+25 11.3	2.021	2.992	3.9	19.4
2 11	8 7.25	+25 23.8	2.055	2.987	7.5	19.6
2 21	7 59.14	+25 26.1	2.117	2.981	11.0	19.8
3 2	7 53.40	+25 18.8	2.202	2.974	13.9	20.0

518769 2009 VX_{58} 1 24.7 89.°44 1.°5/23.9 18

12 23	8 55.98	+19 3.1	1.354	2.197	16.9	21.4
1 2	8 49.22	+20 8.5	1.308	2.222	12.2	21.1
1 12	8 39.50	+21 22.9	1.284	2.246	6.9	20.9
1 22	8 27.97	+22 37.7	1.287	2.270	1.9	20.7
2 1	8 16.21	+23 44.0	1.318	2.293	4.7	20.9
2 11	8 5.90	+24 35.8	1.377	2.316	9.7	21.3
2 21	7 58.25	+25 11.0	1.460	2.338	14.1	21.6
3 2	7 53.94	+25 30.3	1.563	2.360	17.6	21.9

177566 2004 FM_{116} 1 24.7 213.°31 0.°1/24.7 18

12 23	8 49.41	+16 12.7	2.021	2.847	12.8	20.8
1 2	8 43.97	+17 0.9	1.937	2.843	9.4	20.5
1 12	8 36.37	+17 59.4	1.879	2.838	5.5	20.3
1 22	8 27.32	+19 3.5	1.850	2.833	1.2	20.0
2 1	8 17.78	+20 7.7	1.851	2.827	3.2	20.1
2 11	8 8.87	+21 6.7	1.881	2.822	7.4	20.4
2 21	8 1.56	+21 56.9	1.938	2.815	11.2	20.6
3 2	7 56.59	+22 36.3	2.018	2.809	14.4	20.8

457002 2008 CV_{70} 1 24.7 353°.84 4°.1/22.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 49.06	+25 10.6	1.341	2.202	15.9	20.6
1 2	8 44.65	+26 15.0	1.276	2.198	11.7	20.4
1 12	8 37.15	+27 23.7	1.233	2.195	7.1	20.1
1 22	8 27.52	+28 27.6	1.215	2.192	4.1	19.9
2 1	8 17.28	+29 17.8	1.223	2.191	6.6	20.0
2 11	8 8.18	+29 48.6	1.257	2.190	11.1	20.3
2 21	8 1.62	+29 58.9	1.313	2.190	15.5	20.5
3 2	7 58.48	+29 50.8	1.387	2.190	19.2	20.8

337250 2000 RV_{96} 1 24.7 129°.10 5°.0/28.4 17

12 23	8 47.22	− 0 22.7	3.060	3.805	10.8	20.8
1 2	8 41.55	− 0 53.7	2.986	3.819	8.9	20.7
1 12	8 34.62	− 1 11.8	2.936	3.834	6.9	20.6
1 22	8 26.90	− 1 16.4	2.915	3.848	5.4	20.5
2 1	8 19.02	− 1 8.2	2.923	3.861	5.1	20.5
2 11	8 11.61	− 0 49.1	2.961	3.874	6.3	20.6
2 21	8 5.24	− 0 21.8	3.027	3.887	8.2	20.7
3 2	8 0.33	+ 0 10.6	3.119	3.899	10.1	20.9

473210 2015 KM_{116} 1 24.7 168°.49 1°.3/25.9 17

12 23	8 42.87	+12 7.5	3.711	4.512	8.0	22.4
1 2	8 38.33	+12 19.9	3.627	4.515	6.0	22.2
1 12	8 32.74	+12 38.6	3.569	4.517	3.7	22.1
1 22	8 26.51	+13 2.0	3.542	4.519	1.6	21.9
2 1	8 20.11	+13 28.6	3.546	4.521	2.0	22.0
2 11	8 14.05	+13 56.4	3.582	4.523	4.2	22.1
2 21	8 8.77	+14 23.5	3.646	4.524	6.4	22.3
3 2	8 4.67	+14 48.4	3.738	4.526	8.4	22.4

409001 2002 VG_{116} 1 24.7 59°.68 9°.2/28.6 18

12 23	8 51.97	− 1 38.6	1.607	2.378	18.0	20.1
1 2	8 45.90	− 2 59.7	1.548	2.394	15.0	20.0
1 12	8 37.46	− 3 57.8	1.510	2.410	12.0	19.8
1 22	8 27.56	− 4 29.4	1.497	2.426	9.7	19.7
2 1	8 17.37	− 4 33.7	1.509	2.443	9.4	19.8
2 11	8 8.18	− 4 13.8	1.546	2.459	11.0	19.9
2 21	8 1.02	− 3 35.9	1.608	2.476	13.6	20.1
3 2	7 56.54	− 2 47.2	1.691	2.493	16.3	20.3

397077 2005 UM_{240} 1 24.7 24°.50 3°.1/23.2 18

12 23	8 51.06	+22 1.7	1.228	2.088	17.2	20.4
1 2	8 46.22	+23 11.2	1.169	2.091	12.5	20.1
1 12	8 38.09	+24 29.2	1.131	2.095	7.3	19.8
1 22	8 27.74	+25 46.1	1.118	2.099	3.1	19.6
2 1	8 16.81	+26 51.6	1.132	2.104	6.0	19.8
2 11	8 7.17	+27 38.7	1.170	2.109	11.1	20.1
2 21	8 0.28	+28 5.4	1.231	2.114	15.8	20.3
3 2	7 57.01	+28 12.8	1.311	2.120	19.8	20.6

293950 2007 TU_{28} 1 24.7 167°.18 0°.7/25.1 18

12 23	8 52.39	+15 30.9	1.985	2.805	13.2	21.7
1 2	8 46.04	+15 51.7	1.909	2.810	9.8	21.5
1 12	8 37.51	+16 21.4	1.858	2.814	5.8	21.3
1 22	8 27.58	+16 56.5	1.835	2.817	1.6	21.0
2 1	8 17.27	+17 32.9	1.843	2.820	3.1	21.1
2 11	8 7.75	+18 6.7	1.880	2.822	7.3	21.4
2 21	7 59.96	+18 35.0	1.945	2.824	11.1	21.6
3 2	7 54.59	+18 56.4	2.033	2.825	14.3	21.8

429055 2009 DS_{68} 1 24.7 336°.84 9°.3/18.9 18

12 23	8 53.52	+43 24.1	1.904	2.730	13.5	20.1
1 2	8 47.67	+44 39.4	1.840	2.719	11.3	19.9
1 12	8 38.79	+45 41.4	1.800	2.710	9.7	19.8
1 22	8 27.88	+46 21.2	1.785	2.701	9.4	19.7
2 1	8 16.44	+46 32.2	1.795	2.692	10.6	19.8
2 11	8 6.16	+46 13.3	1.829	2.684	12.8	19.9
2 21	7 58.39	+45 27.6	1.886	2.677	15.2	20.1
3 2	7 53.94	+44 21.2	1.960	2.670	17.4	20.2

218726 2005 UK_{203} 1 24.7 127°.01 2°.4/26.0 18

12 23	8 49.10	+11 19.4	1.916	2.732	13.8	21.2
1 2	8 43.68	+11 24.3	1.840	2.735	10.4	21.0
1 12	8 36.17	+11 41.6	1.788	2.738	6.6	20.7
1 22	8 27.30	+12 9.1	1.763	2.740	3.0	20.5
2 1	8 18.05	+12 43.5	1.767	2.743	3.6	20.6
2 11	8 9.56	+13 20.7	1.801	2.745	7.3	20.8
2 21	8 2.73	+13 57.0	1.860	2.748	11.1	21.0
3 2	7 58.24	+14 29.4	1.943	2.750	14.3	21.2

109308 2001 QR_{132} 1 24.7 229°.63 0°.5/24.9 18

12 23	8 51.90	+17 13.3	2.121	2.943	12.4	20.1
1 2	8 45.70	+17 19.8	2.030	2.933	9.2	19.9
1 12	8 37.36	+17 32.7	1.965	2.922	5.4	19.6
1 22	8 27.57	+17 49.1	1.928	2.910	1.3	19.3
2 1	8 17.31	+18 6.0	1.921	2.898	3.1	19.4
2 11	8 7.68	+18 20.3	1.944	2.886	7.2	19.7
2 21	7 59.65	+18 30.3	1.995	2.873	10.9	19.9
3 2	7 53.93	+18 34.9	2.069	2.859	14.1	20.1

244707 2003 QD_{36} 1 24.7 179°.09 0°.1/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 52.92	+17 28.6	2.073	2.894	12.7	21.7
1 2	8 46.39	+17 50.8	1.994	2.896	9.3	21.5
1 12	8 37.72	+18 20.0	1.940	2.898	5.4	21.3
1 22	8 27.64	+18 52.4	1.915	2.898	1.2	21.0
2 1	8 17.17	+19 24.0	1.921	2.898	3.1	21.1
2 11	8 7.45	+19 51.3	1.957	2.897	7.2	21.4
2 21	7 59.42	+20 12.0	2.021	2.896	10.9	21.6
3 2	7 53.77	+20 25.4	2.107	2.893	14.0	21.8

48619 Jianli 1 24.7 177°.43 2°.7/26.2 18

12 23	8 53.18	+ 9 58.3	1.853	2.660	14.6	20.5
1 2	8 46.76	+10 15.5	1.774	2.663	11.1	20.3
1 12	8 38.02	+10 47.5	1.718	2.665	7.1	20.0
1 22	8 27.72	+11 31.6	1.690	2.666	3.3	19.8
2 1	8 16.96	+12 23.6	1.692	2.667	3.8	19.8
2 11	8 6.97	+13 18.3	1.723	2.666	7.8	20.1
2 21	7 58.79	+14 11.0	1.781	2.665	11.7	20.3
3 2	7 53.17	+14 58.1	1.863	2.662	15.1	20.5

334474 2002 PK_{187} 1 24.7 195°.77 3°.3/22.6 18

12 23	8 51.31	+28 48.9	2.412	3.244	10.8	21.5
1 2	8 45.10	+29 24.5	2.336	3.242	8.0	21.4
1 12	8 36.91	+29 58.3	2.287	3.240	5.1	21.2
1 22	8 27.46	+30 25.3	2.267	3.238	3.3	21.1
2 1	8 17.69	+30 41.7	2.276	3.236	4.8	21.1
2 11	8 8.63	+30 45.4	2.316	3.233	7.6	21.3
2 21	8 1.14	+30 36.5	2.381	3.230	10.5	21.5
3 2	7 55.86	+30 16.6	2.470	3.226	13.0	21.7

180583 2004 FP_{24} 1 24.7 358°.46 3°.3/25.7 18

12 23	8 51.04	+13 16.3	1.406	2.242	16.8	19.3
1 2	8 45.72	+12 35.6	1.334	2.240	12.7	19.0
1 12	8 37.60	+12 5.9	1.284	2.238	8.1	18.8
1 22	8 27.64	+11 46.7	1.260	2.237	3.9	18.5
2 1	8 17.21	+11 36.6	1.262	2.237	4.7	18.6
2 11	8 7.84	+11 33.2	1.290	2.238	9.3	18.8
2 21	8 0.77	+11 33.5	1.343	2.239	13.8	19.1
3 2	7 56.78	+11 34.9	1.416	2.241	17.7	19.3

150066 2006 SN_{7} 1 24.7 107°.94 7°.8/30.4 18

12 23	8 45.23	− 7 3.3	2.458	3.180	13.7	19.8
1 2	8 40.52	− 7 35.0	2.376	3.181	11.8	19.6
1 12	8 34.22	− 7 46.7	2.315	3.182	9.8	19.5
1 22	8 26.88	− 7 36.7	2.279	3.183	8.3	19.4
2 1	8 19.24	− 7 5.2	2.270	3.184	7.8	19.3
2 11	8 12.10	− 6 15.1	2.287	3.185	8.7	19.4
2 21	8 6.16	− 5 11.2	2.331	3.186	10.4	19.5
3 2	8 1.97	− 3 58.8	2.398	3.187	12.4	19.7

195971 2002 RT_{184} 1 24.7 217°.26 5°.0/27.8 17

12 23	8 46.92	+ 2 41.0	2.403	3.177	12.6	20.7
1 2	8 41.78	+ 2 22.7	2.314	3.173	10.2	20.5
1 12	8 34.97	+ 2 19.2	2.250	3.169	7.5	20.3
1 22	8 27.05	+ 2 30.8	2.213	3.165	5.4	20.2
2 1	8 18.79	+ 2 56.2	2.205	3.160	5.2	20.1
2 11	8 11.03	+ 3 32.7	2.225	3.155	7.1	20.3
2 21	8 4.53	+ 4 16.3	2.273	3.151	9.8	20.4
3 2	7 59.85	+ 5 3.1	2.346	3.145	12.4	20.6

34865 2001 TH_{116} 1 24.7 81°.34 6°.1/20.4 18

12 23	8 51.62	+37 2.9	2.345	3.174	11.2	18.2
1 2	8 45.47	+38 9.8	2.292	3.185	8.7	18.0
1 12	8 37.17	+39 8.8	2.265	3.196	6.7	17.9
1 22	8 27.52	+39 53.7	2.265	3.207	6.1	17.9
2 1	8 17.60	+40 19.8	2.295	3.218	7.2	18.0
2 11	8 8.56	+40 25.6	2.351	3.229	9.4	18.1
2 21	8 1.34	+40 12.5	2.432	3.240	11.7	18.3
3 2	7 56.57	+39 43.9	2.534	3.251	13.7	18.5

14421 1991 SA_{1} 1 24.7 125°.91 2°.0/26.3 18

12 23	8 46.71	+ 9 37.4	2.537	3.337	11.3	19.1
1 2	8 41.50	+10 13.3	2.462	3.349	8.5	19.0
1 12	8 34.74	+11 0.8	2.413	3.359	5.4	18.8
1 22	8 26.99	+11 57.2	2.394	3.370	2.5	18.6
2 1	8 19.00	+12 58.9	2.405	3.380	2.8	18.6
2 11	8 11.55	+14 1.8	2.448	3.390	5.8	18.9
2 21	8 5.32	+15 1.9	2.518	3.400	8.8	19.1
3 2	8 0.85	+15 56.5	2.615	3.409	11.4	19.3

394792 2008 PR 1 24.7 170°.01 1°.4/25.4 18

12 23	8 53.73	+13 56.4	1.785	2.605	14.5	22.2
1 2	8 47.23	+14 14.8	1.710	2.609	10.8	21.9
1 12	8 38.32	+14 44.7	1.658	2.613	6.5	21.7
1 22	8 27.80	+15 22.4	1.635	2.616	2.1	21.4
2 1	8 16.85	+16 3.4	1.641	2.618	3.5	21.5
2 11	8 6.76	+16 43.0	1.676	2.619	7.9	21.8
2 21	7 58.61	+17 17.9	1.738	2.620	12.0	22.0
3 2	7 53.13	+17 45.8	1.822	2.620	15.5	22.2

200126 1997 HK_{11} 1 24.7 228°.84 6°.2/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 51.64	+ 4 42.1	1.535	2.338	17.3	20.4
1 2	8 46.04	+ 4 7.4	1.456	2.334	13.8	20.1
1 12	8 37.79	+ 3 52.2	1.399	2.331	10.0	19.9
1 22	8 27.71	+ 3 57.5	1.366	2.327	6.8	19.7
2 1	8 17.05	+ 4 22.2	1.360	2.323	6.7	19.7
2 11	8 7.24	+ 5 1.9	1.380	2.318	9.8	19.9
2 21	7 59.49	+ 5 50.7	1.425	2.314	13.7	20.1
3 2	7 54.64	+ 6 42.4	1.492	2.309	17.4	20.3

508062 2015 CS_{1} 1 24.7 209°.84 2°.2/23.5 18

12 23	8 51.13	+25 47.5	2.341	3.173	11.1	21.3
1 2	8 44.93	+26 1.6	2.263	3.171	8.1	21.1
1 12	8 36.80	+26 15.0	2.212	3.170	4.8	20.9
1 22	8 27.45	+26 24.1	2.189	3.168	2.2	20.8
2 1	8 17.82	+26 25.8	2.197	3.166	3.9	20.9
2 11	8 8.93	+26 18.3	2.235	3.165	7.1	21.1
2 21	8 1.61	+26 1.6	2.300	3.163	10.3	21.3
3 2	7 56.47	+25 37.1	2.388	3.161	13.0	21.4

458287 2010 UK_{72} 1 24.7 120°.82 5°.1/21.6 18

12 23	8 56.01	+33 3.0	2.197	3.024	11.8	21.1
1 2	8 48.61	+34 7.4	2.146	3.044	9.0	21.0
1 12	8 38.95	+35 5.9	2.121	3.064	6.3	20.8
1 22	8 27.92	+35 51.9	2.125	3.082	5.1	20.8
2 1	8 16.67	+36 20.3	2.159	3.100	6.5	20.9
2 11	8 6.44	+36 29.5	2.222	3.118	9.0	21.1
2 21	7 58.19	+36 21.0	2.310	3.134	11.7	21.3
3 2	7 52.54	+35 57.9	2.421	3.150	13.9	21.5

282338 2002 VQ_{11} 1 24.7 112°.99 5°.1/26.8 18

12 23	8 54.07	+ 7 6.6	1.509	2.318	17.2	20.3
1 2	8 47.63	+ 6 38.9	1.445	2.330	13.4	20.1
1 12	8 38.57	+ 6 29.1	1.403	2.343	9.2	19.9
1 22	8 27.86	+ 6 36.9	1.387	2.354	5.7	19.7
2 1	8 16.81	+ 6 59.9	1.398	2.366	5.8	19.8
2 11	8 6.84	+ 7 33.5	1.436	2.377	9.2	20.0
2 21	7 59.10	+ 8 12.3	1.499	2.388	13.2	20.2
3 2	7 54.30	+ 8 51.6	1.584	2.398	16.7	20.5

485078 2010 EF_{111} 1 24.7 279°.52 0°.7/25.0 17

12 23	8 51.16	+15 24.3	1.502	2.339	15.8	22.4
1 2	8 46.07	+15 51.8	1.409	2.319	11.8	22.1
1 12	8 38.04	+16 33.1	1.340	2.299	7.1	21.8
1 22	8 27.82	+17 24.3	1.296	2.278	1.8	21.4
2 1	8 16.69	+18 19.0	1.279	2.257	4.0	21.5
2 11	8 6.25	+19 10.8	1.290	2.236	9.4	21.7
2 21	7 57.93	+19 54.7	1.325	2.215	14.4	22.0
3 2	7 52.77	+20 28.0	1.381	2.194	18.7	22.2

87621 2000 RW_{48} 1 24.7 167°.17 4°.7/22.1 18

12 23	8 56.00	+33 47.0	2.379	3.202	11.2	20.4
1 2	8 48.52	+34 21.7	2.310	3.206	8.5	20.2
1 12	8 38.88	+34 50.2	2.268	3.210	6.0	20.1
1 22	8 27.91	+35 7.0	2.255	3.214	4.7	20.0
2 1	8 16.69	+35 8.3	2.272	3.216	5.9	20.1
2 11	8 6.39	+34 52.9	2.318	3.219	8.5	20.2
2 21	7 57.94	+34 22.6	2.390	3.220	11.1	20.4
3 2	7 51.95	+33 40.5	2.486	3.222	13.5	20.6

422111 2014 QQ_{410} 1 24.7 117°.05 0°.8/25.2 18

12 23	8 52.00	+14 55.4	1.964	2.784	13.3	22.6
1 2	8 45.66	+15 20.6	1.901	2.802	9.8	22.4
1 12	8 37.25	+15 55.1	1.863	2.819	5.8	22.2
1 22	8 27.57	+16 35.1	1.853	2.835	1.6	21.9
2 1	8 17.65	+17 16.4	1.873	2.851	3.1	22.0
2 11	8 8.59	+17 54.8	1.923	2.866	7.1	22.3
2 21	8 1.30	+18 27.5	2.000	2.881	10.8	22.6
3 2	7 56.39	+18 52.9	2.101	2.895	13.8	22.8

37965 1998 HH_{89} 1 24.7 230°.12 4°.5/27.3 18

12 23	8 47.85	+ 5 13.7	2.101	2.893	13.6	19.6
1 2	8 42.70	+ 5 5.1	2.015	2.888	10.7	19.4
1 12	8 35.61	+ 5 12.0	1.952	2.884	7.6	19.2
1 22	8 27.24	+ 5 34.0	1.916	2.879	5.0	19.0
2 1	8 18.46	+ 6 9.1	1.909	2.874	4.9	19.0
2 11	8 10.27	+ 6 53.7	1.931	2.869	7.5	19.2
2 21	8 3.52	+ 7 43.2	1.980	2.864	10.7	19.3
3 2	7 58.88	+ 8 33.2	2.052	2.859	13.6	19.5

122745 2000 SC_{55} 1 24.7 348°.36 2°.5/26.1 18

12 23	8 48.17	+11 11.7	1.784	2.606	14.4	19.9
1 2	8 43.20	+11 21.0	1.706	2.604	10.9	19.7
1 12	8 36.01	+11 43.9	1.652	2.603	6.9	19.5
1 22	8 27.34	+12 18.3	1.624	2.602	3.1	19.2
2 1	8 18.23	+13 0.3	1.625	2.601	3.7	19.3
2 11	8 9.88	+13 45.2	1.654	2.601	7.7	19.5
2 21	8 3.27	+14 28.6	1.709	2.600	11.7	19.8
3 2	7 59.12	+15 7.0	1.786	2.600	15.1	20.0

226733 2004 PC_{102} 1 24.7 236°.29 5°.2/20.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 54.91	+34 52.1	2.546	3.368	10.6	21.6
1 2	8 47.96	+35 52.8	2.457	3.350	8.2	21.5
1 12	8 38.74	+36 48.7	2.395	3.331	6.1	21.3
1 22	8 27.94	+37 33.5	2.362	3.312	5.2	21.2
2 1	8 16.58	+38 2.1	2.359	3.292	6.5	21.2
2 11	8 5.81	+38 11.8	2.385	3.271	8.9	21.4
2 21	7 56.68	+38 3.1	2.437	3.249	11.5	21.5
3 2	7 49.95	+37 38.8	2.512	3.227	13.8	21.6

53015 1998 VN_{18} 1 24.7 104°.20 2°.6/23.7 18

12 23	8 56.67	+23 51.5	1.496	2.339	15.6	19.7
1 2	8 49.68	+24 24.6	1.440	2.353	11.4	19.5
1 12	8 39.81	+24 59.9	1.407	2.368	6.6	19.2
1 22	8 28.15	+25 30.7	1.401	2.381	2.7	19.0
2 1	8 16.22	+25 50.9	1.423	2.395	5.1	19.2
2 11	8 5.63	+25 57.6	1.473	2.408	9.6	19.5
2 21	7 57.59	+25 51.0	1.547	2.421	13.7	19.8
3 2	7 52.81	+25 33.3	1.642	2.433	17.2	20.0

37407 2001 XT_{113} 1 24.7 254°.79 1°.7/23.6 18

12 23	8 49.02	+20 12.9	1.891	2.730	13.0	18.5
1 2	8 43.89	+21 21.6	1.814	2.727	9.5	18.3
1 12	8 36.46	+22 38.5	1.763	2.724	5.5	18.1
1 22	8 27.45	+23 57.0	1.740	2.721	1.9	17.8
2 1	8 17.93	+25 10.3	1.746	2.718	4.2	18.0
2 11	8 9.11	+26 12.4	1.781	2.715	8.3	18.2
2 21	8 2.04	+27 0.2	1.842	2.712	12.1	18.4
3 2	7 57.49	+27 33.1	1.926	2.709	15.3	18.6

265014 2003 FE_{130} 1 24.7 19°.00 3°.1/23.2 18

12 23	8 51.67	+25 49.5	1.769	2.613	13.5	21.0
1 2	8 45.89	+26 27.0	1.700	2.613	9.9	20.8
1 12	8 37.60	+27 5.3	1.655	2.614	6.0	20.6
1 22	8 27.69	+27 38.3	1.638	2.616	3.1	20.4
2 1	8 17.38	+28 0.7	1.649	2.617	5.1	20.5
2 11	8 8.03	+28 9.4	1.688	2.618	9.0	20.7
2 21	8 0.75	+28 4.1	1.752	2.620	12.7	21.0
3 2	7 56.26	+27 46.6	1.837	2.621	15.9	21.2

406203 2006 XL_{25} 1 24.7 47°.90 2°.0/25.5 18

12 23	8 52.90	+14 4.2	1.358	2.195	17.2	20.4
1 2	8 46.75	+14 0.1	1.316	2.224	12.7	20.2
1 12	8 37.98	+14 8.7	1.296	2.253	7.6	20.0
1 22	8 27.73	+14 26.4	1.302	2.283	2.8	19.8
2 1	8 17.44	+14 49.0	1.335	2.313	4.0	19.9
2 11	8 8.56	+15 11.9	1.395	2.343	8.7	20.3
2 21	8 2.13	+15 31.9	1.479	2.373	12.9	20.6
3 2	7 58.69	+15 46.8	1.584	2.404	16.4	20.9

231560 2008 TV_{50} 1 24.7 51°.89 0°.8/25.2 18

12 23	8 48.21	+15 21.9	1.957	2.785	13.1	20.9
1 2	8 43.02	+15 40.5	1.886	2.791	9.6	20.7
1 12	8 35.80	+16 8.1	1.840	2.797	5.7	20.5
1 22	8 27.29	+16 41.7	1.821	2.803	1.6	20.2
2 1	8 18.46	+17 17.2	1.832	2.809	3.0	20.4
2 11	8 10.39	+17 50.6	1.871	2.816	7.1	20.6
2 21	8 3.98	+18 19.2	1.937	2.823	10.8	20.9
3 2	7 59.85	+18 41.1	2.026	2.829	13.9	21.1

195001 2002 BA_{28} 1 24.7 59°.28 4°.8/22.7 17

12 23	8 56.97	+26 55.9	1.237	2.092	17.4	19.8
1 2	8 50.17	+28 3.7	1.203	2.121	12.7	19.6
1 12	8 40.12	+29 9.8	1.191	2.150	7.8	19.4
1 22	8 28.20	+30 4.0	1.205	2.179	4.8	19.3
2 1	8 16.25	+30 38.5	1.245	2.209	7.0	19.5
2 11	8 6.10	+30 50.7	1.310	2.238	11.3	19.8
2 21	7 58.99	+30 42.7	1.398	2.267	15.2	20.1
3 2	7 55.51	+30 18.9	1.506	2.296	18.5	20.4

419780 2010 VQ_{173} 1 24.7 103°.61 2°.8/26.3 18

12 23	8 51.61	+10 15.5	1.987	2.794	13.7	21.8
1 2	8 45.29	+10 12.1	1.925	2.814	10.4	21.6
1 12	8 37.01	+10 20.7	1.887	2.833	6.7	21.4
1 22	8 27.53	+10 39.6	1.877	2.852	3.4	21.3
2 1	8 17.87	+11 5.9	1.897	2.870	3.7	21.3
2 11	8 9.07	+11 36.0	1.946	2.888	7.1	21.6
2 21	8 1.97	+12 6.4	2.022	2.906	10.5	21.8
3 2	7 57.16	+12 34.6	2.122	2.923	13.5	22.0

352733 2008 SK_{300} 1 24.7 252°.25 1°.5/25.3 18

12 23	8 53.43	+15 6.6	1.539	2.371	15.8	21.0
1 2	8 47.51	+15 4.8	1.455	2.361	11.9	20.7
1 12	8 38.75	+15 13.7	1.393	2.350	7.2	20.4
1 22	8 27.99	+15 30.6	1.357	2.339	2.4	20.1
2 1	8 16.53	+15 51.6	1.350	2.327	3.9	20.1
2 11	8 5.94	+16 12.3	1.369	2.316	9.0	20.4
2 21	7 57.53	+16 29.8	1.414	2.304	13.7	20.7
3 2	7 52.20	+16 42.0	1.480	2.291	17.8	20.9

200444 2000 VQ_{14} 1 24.7 32°.62 0°.6/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 49.36	+15 28.9	1.203	2.056	17.9	19.6
1 2	8 44.76	+16 2.2	1.150	2.067	13.2	19.3
1 12	8 37.15	+16 50.2	1.118	2.079	7.7	19.1
1 22	8 27.61	+17 46.8	1.109	2.092	1.9	18.8
2 1	8 17.69	+18 44.4	1.127	2.106	4.2	19.0
2 11	8 9.08	+19 35.7	1.170	2.120	9.7	19.3
2 21	8 3.06	+20 16.2	1.236	2.135	14.6	19.6
3 2	8 0.38	+20 44.0	1.322	2.151	18.5	19.9

77893 2001 SM_{251} 1 24.7 212°.10 0°.2/24.5 17

12 23	8 43.75	+18 57.6	3.513	4.333	8.0	20.6
1 2	8 39.09	+19 18.2	3.426	4.329	5.8	20.4
1 12	8 33.28	+19 42.1	3.367	4.325	3.3	20.2
1 22	8 26.73	+20 7.4	3.339	4.322	0.7	20.0
2 1	8 19.97	+20 31.9	3.342	4.318	2.0	20.1
2 11	8 13.57	+20 53.6	3.375	4.314	4.6	20.3
2 21	8 8.04	+21 11.1	3.438	4.309	7.0	20.5
3 2	8 3.80	+21 23.8	3.527	4.305	9.0	20.6

186435 2002 RU_{124} 1 24.7 183°.81 2°.1/23.5 18

12 23	8 55.12	+21 33.0	1.792	2.624	13.9	20.9
1 2	8 48.46	+22 36.2	1.716	2.625	10.1	20.6
1 12	8 39.16	+23 45.8	1.666	2.626	5.9	20.4
1 22	8 28.06	+24 54.8	1.644	2.625	2.3	20.1
2 1	8 16.40	+25 56.0	1.653	2.623	4.6	20.3
2 11	8 5.60	+26 43.9	1.690	2.621	8.9	20.5
2 21	7 56.84	+27 16.4	1.753	2.618	12.9	20.8
3 2	7 50.95	+27 34.0	1.839	2.613	16.2	21.0

468113 2013 YC_{53} 1 24.7 160°.93 2°.0/25.9 17

12 23	8 48.21	+12 14.0	2.485	3.293	11.3	21.5
1 2	8 42.65	+12 8.7	2.405	3.296	8.5	21.3
1 12	8 35.45	+12 11.7	2.350	3.298	5.3	21.1
1 22	8 27.22	+12 21.7	2.324	3.300	2.4	20.9
2 1	8 18.72	+12 36.6	2.328	3.303	3.0	20.9
2 11	8 10.80	+12 54.0	2.363	3.305	6.0	21.1
2 21	8 4.17	+13 11.6	2.425	3.306	9.1	21.3
3 2	7 59.37	+13 27.6	2.512	3.308	11.8	21.5

363682 2004 TA_{113} 1 24.7 138°.08 1°.6/25.8 18

12 23	8 50.16	+12 42.9	2.621	3.424	10.9	21.9
1 2	8 43.91	+12 46.3	2.549	3.439	8.1	21.8
1 12	8 36.11	+12 57.5	2.504	3.453	5.0	21.6
1 22	8 27.36	+13 14.6	2.488	3.466	2.1	21.4
2 1	8 18.42	+13 35.3	2.503	3.479	2.7	21.5
2 11	8 10.09	+13 57.2	2.550	3.491	5.7	21.7
2 21	8 3.06	+14 18.1	2.625	3.502	8.6	21.9
3 2	7 57.83	+14 36.3	2.725	3.513	11.2	22.1

85663 1998 QX_{42} 1 24.7 232°.23 2°.0/25.7 18

12 23	8 52.24	+12 8.4	1.668	2.489	15.3	19.8
1 2	8 46.49	+12 28.6	1.580	2.479	11.5	19.6
1 12	8 38.11	+13 3.7	1.515	2.468	7.2	19.3
1 22	8 27.87	+13 50.7	1.477	2.457	2.8	19.0
2 1	8 16.93	+14 44.5	1.468	2.445	3.8	19.0
2 11	8 6.71	+15 39.4	1.487	2.433	8.5	19.3
2 21	7 58.44	+16 30.3	1.532	2.420	13.0	19.5
3 2	7 52.99	+17 13.9	1.599	2.406	16.9	19.7

168917 2000 YM_{44} 1 24.7 345°.32 0°.5/24.9 18

12 23	8 49.57	+17 21.9	1.286	2.139	17.0	19.4
1 2	8 45.03	+17 28.0	1.215	2.132	12.6	19.1
1 12	8 37.42	+17 44.6	1.164	2.126	7.4	18.8
1 22	8 27.72	+18 7.8	1.138	2.121	1.8	18.4
2 1	8 17.39	+18 32.2	1.138	2.117	4.2	18.6
2 11	8 8.15	+18 52.8	1.163	2.113	9.8	18.9
2 21	8 1.39	+19 6.6	1.211	2.110	14.8	19.2
3 2	7 57.98	+19 12.1	1.279	2.108	19.0	19.4

20231 1997 YK 1 24.7 112°.62 10°.4/27.3 18 R

12 23	9 1.05	+ 1 32.9	1.235	2.026	21.3	17.0
1 2	8 53.16	− 0 22.9	1.177	2.040	17.5	16.8
1 12	8 41.97	− 1 56.0	1.139	2.053	13.6	16.6
1 22	8 28.68	− 2 59.9	1.125	2.066	10.8	16.5
2 1	8 14.98	− 3 31.2	1.137	2.079	10.7	16.5
2 11	8 2.73	− 3 32.3	1.173	2.091	13.3	16.7
2 21	7 53.34	− 3 10.0	1.232	2.102	16.7	17.0
3 2	7 47.63	− 2 33.2	1.309	2.113	20.1	17.2

428135 2006 SQ_{103} 1 24.7 253°.54 5°.7/20.7 17

12 23	8 53.13	+37 44.1	2.593	3.414	10.5	21.1
1 2	8 46.59	+38 32.1	2.512	3.400	8.3	20.9
1 12	8 37.90	+39 12.9	2.457	3.386	6.4	20.8
1 22	8 27.78	+39 40.7	2.430	3.372	5.7	20.7
2 1	8 17.25	+39 51.1	2.433	3.357	6.8	20.8
2 11	8 7.43	+39 42.6	2.463	3.342	9.0	20.9
2 21	7 59.27	+39 16.4	2.519	3.327	11.3	21.0
3 2	7 53.47	+38 35.5	2.597	3.312	13.4	21.2

238382 2004 CZ_{108} 1 24.7 286°.13 8°.4/31.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 45.10	−10 2.5	2.398	3.102	14.5	20.3
1 2	8 40.64	−10 5.6	2.293	3.083	12.6	20.1
1 12	8 34.45	− 9 44.3	2.208	3.064	10.7	19.9
1 22	8 27.05	− 8 56.7	2.147	3.045	9.0	19.8
2 1	8 19.16	− 7 43.2	2.113	3.026	8.4	19.7
2 11	8 11.67	− 6 7.5	2.106	3.007	9.2	19.7
2 21	8 5.35	− 4 15.9	2.127	2.987	11.1	19.8
3 2	8 0.86	− 2 15.9	2.172	2.968	13.4	19.9

266646 Zaphod 1 24.7 236°.98 1°.4/23.8 17

12 23	8 49.85	+21 39.1	2.225	3.056	11.6	21.2
1 2	8 44.22	+22 16.1	2.138	3.047	8.4	21.0
1 12	8 36.56	+22 57.4	2.077	3.037	4.9	20.7
1 22	8 27.51	+23 38.6	2.046	3.027	1.6	20.5
2 1	8 18.00	+24 15.3	2.044	3.017	3.6	20.6
2 11	8 9.10	+24 43.8	2.072	3.006	7.3	20.8
2 21	8 1.71	+25 2.5	2.127	2.995	10.7	21.0
3 2	7 56.55	+25 11.0	2.205	2.984	13.7	21.2

170568 2003 WM_{190} 1 24.7 66°.88 10°.3/ 1.7 18

12 23	8 48.43	−10 41.0	1.589	2.318	19.8	19.9
1 2	8 43.46	−10 34.6	1.527	2.336	17.0	19.8
1 12	8 36.17	− 9 52.4	1.482	2.353	14.1	19.6
1 22	8 27.41	− 8 33.1	1.460	2.371	11.5	19.5
2 1	8 18.34	− 6 40.1	1.462	2.388	10.3	19.5
2 11	8 10.20	− 4 22.4	1.491	2.406	11.2	19.6
2 21	8 4.01	− 1 52.2	1.545	2.424	13.5	19.7
3 2	8 0.45	+ 0 38.9	1.623	2.441	16.2	20.0

241522 2009 HN_{3} 1 24.7 25°.12 5°.5/22.2 18

12 23	8 51.32	+27 49.0	1.261	2.123	16.6	19.5
1 2	8 46.44	+29 5.4	1.209	2.130	12.3	19.3
1 12	8 38.25	+30 22.1	1.179	2.137	7.9	19.1
1 22	8 27.91	+31 28.2	1.173	2.146	5.5	18.9
2 1	8 17.10	+32 14.4	1.193	2.154	7.7	19.1
2 11	8 7.70	+32 36.2	1.238	2.164	12.0	19.4
2 21	8 1.12	+32 34.5	1.305	2.174	16.1	19.6
3 2	7 58.15	+32 13.1	1.390	2.185	19.5	19.9

331798 2003 QP_{48} 1 24.7 152°.32 0°.6/24.4 18

12 23	8 53.75	+19 25.7	2.032	2.857	12.8	22.0
1 2	8 47.02	+19 54.2	1.961	2.866	9.3	21.8
1 12	8 38.12	+20 28.1	1.916	2.875	5.3	21.5
1 22	8 27.85	+21 3.1	1.900	2.883	1.2	21.3
2 1	8 17.26	+21 34.7	1.915	2.890	3.3	21.4
2 11	8 7.52	+21 59.5	1.959	2.897	7.4	21.7
2 21	7 59.56	+22 16.0	2.031	2.903	11.0	21.9
3 2	7 54.04	+22 23.9	2.126	2.908	14.0	22.2

24209 1999 XM_{51} 1 24.7 235°.58 0°.4/24.9 18

12 23	8 53.88	+16 31.5	1.649	2.479	15.0	19.5
1 2	8 47.79	+16 54.2	1.561	2.468	11.1	19.2
1 12	8 38.93	+17 27.5	1.497	2.455	6.6	18.9
1 22	8 28.09	+18 7.1	1.459	2.442	1.6	18.6
2 1	8 16.53	+18 47.7	1.451	2.428	3.7	18.7
2 11	8 5.73	+19 24.1	1.470	2.414	8.8	18.9
2 21	7 56.99	+19 53.0	1.516	2.399	13.4	19.2
3 2	7 51.22	+20 12.8	1.583	2.383	17.3	19.4

155378 1993 FF_{9} 1 24.7 295°.48 1°.2/24.1 18

12 23	8 49.11	+20 22.5	1.843	2.683	13.2	21.0
1 2	8 44.09	+20 58.4	1.755	2.668	9.7	20.8
1 12	8 36.68	+21 41.2	1.691	2.653	5.6	20.5
1 22	8 27.58	+22 26.0	1.655	2.637	1.6	20.2
2 1	8 17.89	+23 7.4	1.648	2.623	3.9	20.3
2 11	8 8.86	+23 40.6	1.668	2.608	8.3	20.6
2 21	8 1.61	+24 3.3	1.714	2.593	12.3	20.8
3 2	7 56.95	+24 14.8	1.783	2.579	15.8	21.0

298861 2004 RM_{292} 1 24.7 117°.01 1°.4/24.1 18

12 23	8 56.23	+21 58.9	1.652	2.488	14.7	20.9
1 2	8 49.15	+22 17.5	1.591	2.501	10.7	20.7
1 12	8 39.45	+22 39.4	1.554	2.514	6.2	20.4
1 22	8 28.15	+22 59.4	1.545	2.527	1.8	20.2
2 1	8 16.58	+23 12.9	1.564	2.539	4.1	20.4
2 11	8 6.19	+23 17.2	1.613	2.551	8.6	20.7
2 21	7 58.10	+23 11.8	1.686	2.562	12.7	20.9
3 2	7 52.98	+22 57.8	1.782	2.573	16.0	21.2

127165 2002 GK_{149} 1 24.7 198°.49 1°.4/25.6 18

12 23	8 48.69	+13 34.6	2.172	2.990	12.3	20.6
1 2	8 43.28	+13 48.4	2.090	2.988	9.2	20.4
1 12	8 35.97	+14 11.8	2.033	2.987	5.6	20.2
1 22	8 27.40	+14 42.3	2.005	2.985	2.0	19.9
2 1	8 18.46	+15 16.6	2.006	2.983	3.0	20.0
2 11	8 10.14	+15 51.1	2.037	2.981	6.7	20.2
2 21	8 3.30	+16 22.7	2.095	2.978	10.2	20.4
3 2	7 58.56	+16 49.4	2.177	2.976	13.2	20.6

492687 2014 PE_{48} 1 24.7 198°.97 1°.3/24.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 53.77	+21 20.1	1.996	2.825	12.8	22.6
1 2	8 47.23	+21 51.1	1.915	2.822	9.4	22.4
1 12	8 38.37	+22 26.5	1.859	2.818	5.4	22.1
1 22	8 27.95	+23 1.6	1.831	2.813	1.6	21.9
2 1	8 17.06	+23 31.5	1.834	2.808	3.8	22.0
2 11	8 6.93	+23 52.7	1.867	2.802	7.9	22.3
2 21	7 58.62	+24 3.9	1.926	2.796	11.6	22.5
3 2	7 52.85	+24 5.2	2.008	2.789	14.8	22.7

486835 2014 JY_{43} 1 24.7 259°.09 0°.8/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.38	+17 32.2	1.584	2.421	15.2	21.9
1 2	8 46.94	+18 27.8	1.492	2.403	11.2	21.6
1 12	8 38.59	+19 36.8	1.424	2.385	6.5	21.3
1 22	8 28.06	+20 52.9	1.383	2.366	1.5	20.9
2 1	8 16.62	+22 8.3	1.370	2.346	4.3	21.0
2 11	8 5.83	+23 15.2	1.385	2.326	9.5	21.3
2 21	7 57.11	+24 8.8	1.426	2.306	14.3	21.5
3 2	7 51.50	+24 47.2	1.487	2.285	18.4	21.7

295222 2008 GH_{1} 1 24.7 230°.29 5°.9/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.68	+ 2 48.8	1.890	2.676	15.1	20.7
1 2	8 43.49	+ 2 26.8	1.808	2.674	12.2	20.5
1 12	8 36.20	+ 2 23.3	1.748	2.672	9.0	20.3
1 22	8 27.48	+ 2 38.8	1.714	2.669	6.4	20.1
2 1	8 18.31	+ 3 11.8	1.708	2.667	6.1	20.1
2 11	8 9.82	+ 3 58.2	1.730	2.664	8.5	20.2
2 21	8 2.94	+ 4 52.9	1.777	2.661	11.7	20.4
3 2	7 58.38	+ 5 50.3	1.847	2.658	14.8	20.6

251748 1998 XC_{11} 1 24.7 9°.96 0°.4/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.71	+20 51.7	0.950	1.828	19.3	18.3
1 2	8 43.39	+20 31.5	0.902	1.833	14.2	18.0
1 12	8 36.57	+20 17.4	0.873	1.840	8.2	17.7
1 22	8 27.57	+20 5.4	0.866	1.850	1.8	17.3
2 1	8 18.25	+19 51.6	0.883	1.862	4.8	17.6
2 11	8 10.59	+19 33.3	0.922	1.877	10.8	18.0
2 21	8 5.95	+19 9.9	0.981	1.894	16.1	18.3
3 2	8 5.02	+18 41.4	1.058	1.912	20.4	18.6

457162 2008 GV_{34} 1 24.7 283°.55 0°.7/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.53	+19 21.9	1.759	2.596	13.9	21.6
1 2	8 45.20	+19 46.5	1.672	2.583	10.2	21.3
1 12	8 37.36	+20 18.4	1.608	2.569	5.9	21.0
1 22	8 27.76	+20 53.1	1.572	2.555	1.3	20.7
2 1	8 17.55	+21 25.6	1.565	2.542	3.7	20.9
2 11	8 8.06	+21 51.6	1.586	2.528	8.4	21.1
2 21	8 0.46	+22 8.6	1.632	2.514	12.7	21.3
3 2	7 55.58	+22 15.9	1.700	2.501	16.3	21.5

104068 2000 EJ_{22} 1 24.7 347°.93 0°.8/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.83	+15 20.6	1.978	2.806	12.9	19.9
1 2	8 42.83	+15 38.7	1.900	2.805	9.6	19.7
1 12	8 35.78	+16 6.0	1.846	2.804	5.7	19.4
1 22	8 27.38	+16 39.5	1.820	2.802	1.6	19.1
2 1	8 18.60	+17 15.2	1.823	2.801	3.0	19.3
2 11	8 10.51	+17 49.3	1.855	2.800	7.1	19.5
2 21	8 4.03	+18 18.6	1.914	2.800	10.9	19.7
3 2	7 59.81	+18 41.4	1.995	2.799	14.1	19.9

131916 2002 BJ_{18} 1 24.7 262°.73 0°.6/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.42	+16 44.8	1.598	2.437	15.0	20.3
1 2	8 45.36	+17 48.1	1.515	2.426	11.0	20.0
1 12	8 37.57	+19 5.4	1.455	2.416	6.4	19.7
1 22	8 27.83	+20 30.2	1.423	2.406	1.4	19.4
2 1	8 17.35	+21 54.3	1.419	2.395	4.1	19.5
2 11	8 7.60	+23 9.9	1.443	2.385	9.1	19.8
2 21	7 59.88	+24 11.9	1.492	2.374	13.7	20.0
3 2	7 55.10	+24 58.2	1.562	2.363	17.5	20.3

232716 2004 BU_{98} 1 24.7 346°.18 8°.9/21.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 56.00	+41 13.3	1.645	2.479	14.8	19.7
1 2	8 49.67	+41 51.6	1.577	2.468	12.1	19.5
1 12	8 40.05	+42 15.2	1.532	2.458	9.8	19.3
1 22	8 28.33	+42 15.2	1.511	2.449	8.9	19.2
2 1	8 16.22	+41 46.1	1.517	2.442	10.1	19.3
2 11	8 5.55	+40 47.9	1.547	2.435	12.7	19.4
2 21	7 57.71	+39 25.9	1.599	2.429	15.7	19.6
3 2	7 53.46	+37 47.3	1.672	2.425	18.4	19.8

277865 2006 JX_{27} 1 24.7 121°.92 3°.8/22.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.66	+29 4.2	2.318	3.152	11.1	20.9
1 2	8 44.72	+30 0.1	2.255	3.161	8.2	20.7
1 12	8 36.79	+30 54.2	2.218	3.170	5.3	20.6
1 22	8 27.60	+31 40.9	2.209	3.178	3.8	20.5
2 1	8 18.11	+32 15.6	2.231	3.186	5.2	20.6
2 11	8 9.39	+32 35.6	2.282	3.194	8.0	20.8
2 21	8 2.29	+32 40.8	2.358	3.202	10.8	21.0
3 2	7 57.43	+32 33.0	2.458	3.209	13.2	21.2

459400 2012 KX_{47} 1 24.7 314°.10 2°.9/22.9 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 47.71	+21 28.5	1.525	2.378	14.8	21.3
1 2	8 43.72	+22 50.3	1.433	2.352	10.9	21.0
1 12	8 36.82	+24 24.4	1.365	2.327	6.5	20.7
1 22	8 27.71	+26 2.5	1.323	2.303	3.0	20.4
2 1	8 17.61	+27 34.6	1.308	2.278	5.7	20.5
2 11	8 8.11	+28 51.8	1.321	2.254	10.6	20.7
2 21	8 0.68	+29 49.1	1.357	2.231	15.2	20.9
3 2	7 56.43	+30 25.2	1.412	2.209	19.2	21.1

47188 1999 TU_{155} 1 24.7 178°.46 1°.6/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.20	+20 47.7	1.674	2.509	14.6	19.5
1 2	8 48.63	+21 34.9	1.601	2.511	10.7	19.3
1 12	8 39.33	+22 28.7	1.553	2.513	6.2	19.0
1 22	8 28.20	+23 22.8	1.532	2.514	1.9	18.8
2 1	8 16.53	+24 10.4	1.540	2.514	4.4	18.9
2 11	8 5.82	+24 46.6	1.577	2.513	9.0	19.2
2 21	7 57.29	+25 9.4	1.639	2.511	13.2	19.4
3 2	7 51.75	+25 19.2	1.723	2.509	16.7	19.7

54948 2001 PP_{3} 1 24.7 83°.94 4°.2/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.93	+ 8 52.9	1.415	2.237	17.5	19.7
1 2	8 46.37	+ 8 41.4	1.347	2.243	13.4	19.5
1 12	8 38.05	+ 8 48.0	1.302	2.248	8.9	19.2
1 22	8 27.93	+ 9 11.4	1.281	2.254	4.9	19.0
2 1	8 17.33	+ 9 47.9	1.286	2.260	5.2	19.0
2 11	8 7.80	+10 32.0	1.319	2.265	9.3	19.3
2 21	8 0.52	+11 18.0	1.375	2.271	13.6	19.6
3 2	7 56.31	+12 0.9	1.453	2.276	17.5	19.8

189337 2007 TM_{426} 1 24.8 57°.47 3°.1/22.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.18	+26 20.2	2.126	2.965	11.7	20.1
1 2	8 43.74	+27 9.2	2.062	2.974	8.6	19.9
1 12	8 36.27	+27 58.6	2.025	2.982	5.2	19.7
1 22	8 27.51	+28 42.8	2.015	2.990	3.1	19.6
2 1	8 18.45	+29 17.1	2.035	2.999	4.7	19.7
2 11	8 10.19	+29 38.4	2.084	3.008	7.9	19.9
2 21	8 3.61	+29 46.3	2.158	3.017	11.0	20.2
3 2	7 59.33	+29 41.8	2.255	3.026	13.7	20.4

19727 Allen 1 24.8 289°.91 7°.7/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.31	+ 2 54.4	1.632	2.423	16.9	17.0
1 2	8 45.94	+ 1 47.6	1.535	2.403	13.9	16.7
1 12	8 37.92	+ 0 57.4	1.461	2.382	10.6	16.5
1 22	8 27.95	+ 0 27.2	1.411	2.361	8.1	16.3
2 1	8 17.17	+ 0 18.7	1.388	2.340	8.1	16.2
2 11	8 6.97	+ 0 30.5	1.390	2.319	10.7	16.3
2 21	7 58.62	+ 0 58.3	1.417	2.298	14.3	16.5
3 2	7 53.08	+ 1 36.1	1.465	2.277	17.9	16.6

136000 2002 VL_{38} 1 24.8 127°.19 2°.7/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.95	+ 8 51.1	2.199	2.996	12.9	20.7
1 2	8 44.76	+ 9 10.7	2.131	3.014	9.8	20.5
1 12	8 36.75	+ 9 43.3	2.089	3.032	6.4	20.3
1 22	8 27.61	+10 26.5	2.075	3.048	3.2	20.1
2 1	8 18.24	+11 16.7	2.091	3.064	3.5	20.2
2 11	8 9.59	+12 9.5	2.138	3.080	6.6	20.4
2 21	8 2.46	+13 1.0	2.213	3.094	9.8	20.6
3 2	7 57.42	+13 48.0	2.312	3.108	12.7	20.8

128005 2003 HH_{54} 1 24.8 26°.71 1°.0/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.36	+15 9.2	1.747	2.579	14.2	19.9
1 2	8 44.15	+15 23.2	1.674	2.581	10.5	19.6
1 12	8 36.63	+15 47.4	1.626	2.583	6.3	19.4
1 22	8 27.62	+16 18.7	1.603	2.585	1.9	19.1
2 1	8 18.20	+16 52.6	1.610	2.588	3.3	19.2
2 11	8 9.62	+17 25.0	1.645	2.591	7.8	19.5
2 21	8 2.90	+17 52.5	1.705	2.594	11.8	19.7
3 2	7 58.73	+18 13.4	1.787	2.597	15.2	20.0

402613 2006 SN_{273} 1 24.8 51°.97 3°.7/23.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.57	+25 55.9	1.403	2.254	15.9	20.3
1 2	8 48.19	+26 42.6	1.363	2.280	11.6	20.1
1 12	8 38.97	+27 28.9	1.346	2.306	7.0	19.9
1 22	8 28.10	+28 7.2	1.355	2.333	3.7	19.8
2 1	8 17.15	+28 31.1	1.392	2.360	5.8	19.9
2 11	8 7.71	+28 38.1	1.455	2.387	10.0	20.2
2 21	8 0.90	+28 29.3	1.541	2.414	13.9	20.5
3 2	7 57.31	+28 7.7	1.648	2.441	17.0	20.8

241817 2001 SH_{39} 1 24.8 142°.47 6°.0/19.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.36	+41 29.7	2.949	3.757	9.7	20.9
1 2	8 47.21	+42 25.5	2.895	3.768	7.9	20.7
1 12	8 38.16	+43 11.6	2.867	3.778	6.5	20.7
1 22	8 27.93	+43 43.0	2.868	3.789	6.1	20.7
2 1	8 17.47	+43 56.3	2.898	3.798	6.9	20.7
2 11	8 7.82	+43 50.7	2.956	3.808	8.5	20.8
2 21	7 59.80	+43 28.0	3.039	3.816	10.3	21.0
3 2	7 53.98	+42 51.2	3.144	3.825	11.9	21.1

302073 2000 WX_{81} 1 24.8 49°.58 2°.4/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 52.50	+13 32.2	1.332	2.170	17.4	20.3
1 2	8 46.79	+13 20.2	1.277	2.184	13.0	20.1
1 12	8 38.25	+13 21.5	1.242	2.198	8.0	19.8
1 22	8 27.98	+13 33.6	1.233	2.213	3.2	19.6
2 1	8 17.42	+13 52.6	1.251	2.228	4.3	19.7
2 11	8 8.14	+14 13.9	1.294	2.243	9.1	20.0
2 21	8 1.31	+14 33.8	1.362	2.259	13.6	20.3
3 2	7 57.64	+14 49.7	1.450	2.275	17.4	20.6

341730 2007 VN_{232} 1 24.8 84°.45 1°.3/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.56	+21 34.0	2.313	3.144	11.2	21.1
1 2	8 43.07	+22 6.5	2.247	3.156	8.1	20.9
1 12	8 35.80	+22 42.3	2.207	3.167	4.6	20.7
1 22	8 27.42	+23 17.5	2.197	3.179	1.5	20.5
2 1	8 18.81	+23 48.1	2.216	3.190	3.3	20.7
2 11	8 10.90	+24 11.3	2.266	3.201	6.7	20.9
2 21	8 4.47	+24 25.9	2.342	3.212	9.8	21.1
3 2	8 0.08	+24 31.7	2.442	3.223	12.5	21.3

32035 2000 JS_{18} 1 24.8 229°.38 4°.9/21.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.66	+34 18.4	2.546	3.373	10.4	19.4
1 2	8 45.51	+35 10.6	2.469	3.366	8.0	19.3
1 12	8 37.31	+35 57.8	2.418	3.358	5.8	19.1
1 22	8 27.77	+36 34.5	2.396	3.350	4.9	19.0
2 1	8 17.84	+36 56.3	2.404	3.341	6.1	19.1
2 11	8 8.58	+37 1.2	2.440	3.333	8.5	19.2
2 21	8 0.89	+36 49.7	2.502	3.324	10.9	19.4
3 2	7 55.44	+36 24.2	2.586	3.315	13.2	19.5

76526 2000 GS_{54} 1 24.8 18°.82 0°.9/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.86	+20 27.2	2.009	2.845	12.4	19.2
1 2	8 43.58	+20 50.2	1.936	2.847	9.1	19.0
1 12	8 36.23	+21 18.0	1.888	2.849	5.2	18.8
1 22	8 27.54	+21 46.5	1.868	2.850	1.3	18.5
2 1	8 18.51	+22 11.8	1.877	2.853	3.4	18.7
2 11	8 10.24	+22 30.5	1.915	2.855	7.3	18.9
2 21	8 3.64	+22 41.2	1.979	2.858	10.9	19.1
3 2	7 59.36	+22 43.5	2.066	2.860	14.0	19.4

236873 2007 RA_{262} 1 24.8 16°.48 7°.7/19.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.19	+40 53.0	2.139	2.962	12.3	19.9
1 2	8 47.78	+42 0.1	2.080	2.963	10.0	19.8
1 12	8 38.77	+42 56.3	2.046	2.964	8.2	19.7
1 22	8 28.10	+43 34.0	2.038	2.965	7.7	19.7
2 1	8 17.06	+43 47.9	2.058	2.966	8.9	19.7
2 11	8 7.06	+43 37.0	2.103	2.967	10.9	19.9
2 21	7 59.22	+43 3.8	2.172	2.969	13.2	20.0
3 2	7 54.27	+42 13.0	2.261	2.970	15.3	20.2

425422 2010 CY_{218} 1 24.8 97°.22 0°.7/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.86	+18 34.2	2.377	3.206	11.0	20.8
1 2	8 41.88	+19 23.2	2.303	3.210	8.0	20.6
1 12	8 35.16	+20 18.7	2.255	3.214	4.6	20.4
1 22	8 27.30	+21 16.4	2.236	3.219	1.1	20.1
2 1	8 19.13	+22 11.9	2.247	3.223	3.0	20.3
2 11	8 11.53	+23 1.2	2.289	3.227	6.5	20.5
2 21	8 5.29	+23 41.7	2.358	3.231	9.6	20.7
3 2	8 0.97	+24 12.2	2.451	3.235	12.4	20.9

120294 2004 JW_{15} 1 24.8 266°.61 1°.4/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.10	+14 11.0	1.921	2.743	13.5	20.5
1 2	8 44.71	+14 20.6	1.827	2.728	10.1	20.2
1 12	8 37.04	+14 40.6	1.757	2.712	6.2	20.0
1 22	8 27.76	+15 8.4	1.715	2.696	2.1	19.7
2 1	8 17.90	+15 40.6	1.703	2.680	3.3	19.7
2 11	8 8.63	+16 13.0	1.719	2.664	7.6	19.9
2 21	8 1.02	+16 42.4	1.761	2.647	11.7	20.2
3 2	7 55.84	+17 6.4	1.826	2.630	15.2	20.3

109689 2001 RY_{33} 1 24.8 247°.41 2°.5/23.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 56.24	+26 12.1	1.888	2.721	13.3	19.9
1 2	8 49.21	+26 17.2	1.804	2.712	9.8	19.7
1 12	8 39.61	+26 20.7	1.745	2.703	5.9	19.4
1 22	8 28.32	+26 18.0	1.714	2.693	2.6	19.2
2 1	8 16.56	+26 5.4	1.713	2.684	4.5	19.3
2 11	8 5.74	+25 41.3	1.741	2.674	8.6	19.5
2 21	7 56.98	+25 6.9	1.796	2.664	12.4	19.7
3 2	7 51.06	+24 24.5	1.873	2.654	15.7	19.9

327934 2007 DX_{90} 1 24.8 10°.88 2°.0/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.75	+23 20.5	1.573	2.421	14.7	20.5
1 2	8 46.18	+23 36.2	1.506	2.422	10.8	20.3
1 12	8 37.92	+23 54.4	1.462	2.423	6.3	20.0
1 22	8 27.95	+24 9.9	1.444	2.426	2.2	19.8
2 1	8 17.58	+24 18.1	1.454	2.428	4.5	19.9
2 11	8 8.29	+24 16.1	1.491	2.431	9.0	20.2
2 21	8 1.24	+24 3.7	1.553	2.435	13.2	20.5
3 2	7 57.16	+23 42.0	1.636	2.439	16.7	20.7

408850 2001 SU_{130} 1 24.8 106°.72 3°.3/23.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 54.96	+27 18.5	1.962	2.796	12.8	21.4
1 2	8 47.99	+27 54.3	1.906	2.813	9.4	21.2
1 12	8 38.73	+28 28.6	1.874	2.830	5.8	21.0
1 22	8 28.09	+28 55.5	1.871	2.846	3.3	20.9
2 1	8 17.27	+29 10.7	1.898	2.862	5.0	21.0
2 11	8 7.50	+29 12.1	1.954	2.878	8.4	21.2
2 21	7 59.75	+29 0.5	2.035	2.893	11.6	21.5
3 2	7 54.64	+28 38.0	2.139	2.907	14.4	21.7

204538 2005 EE_{145} 1 24.8 75°.31 0°.8/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.03	+14 57.6	2.120	2.943	12.4	20.3
1 2	8 42.80	+15 20.2	2.051	2.953	9.1	20.1
1 12	8 35.71	+15 51.6	2.007	2.963	5.4	19.9
1 22	8 27.44	+16 28.6	1.991	2.973	1.6	19.7
2 1	8 18.90	+17 7.5	2.005	2.983	2.8	19.8
2 11	8 11.07	+17 44.5	2.049	2.993	6.6	20.0
2 21	8 4.77	+18 16.7	2.119	3.003	10.1	20.3
3 2	8 0.57	+18 42.3	2.213	3.013	13.0	20.5

5992 Nittler 1 24.8 297°.04 4°.9/27.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.08	+ 6 30.5	1.813	2.616	15.0	18.0
1 2	8 43.96	+ 6 1.5	1.726	2.607	11.8	17.8
1 12	8 36.59	+ 5 47.8	1.662	2.598	8.4	17.6
1 22	8 27.68	+ 5 49.8	1.624	2.589	5.5	17.4
2 1	8 18.25	+ 6 6.3	1.614	2.580	5.5	17.3
2 11	8 9.48	+ 6 34.0	1.632	2.572	8.4	17.5
2 21	8 2.40	+ 7 8.6	1.675	2.563	12.0	17.7
3 2	7 57.76	+ 7 45.7	1.741	2.555	15.4	17.9

241277 2007 TW_{437} 1 24.8 138°.14 0°.1/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.94	+16 54.7	1.885	2.711	13.6	21.4
1 2	8 46.60	+17 30.0	1.818	2.722	10.0	21.2
1 12	8 38.01	+18 13.8	1.775	2.733	5.8	21.0
1 22	8 27.98	+19 1.6	1.761	2.743	1.3	20.7
2 1	8 17.61	+19 48.2	1.776	2.753	3.3	20.9
2 11	8 8.12	+20 29.1	1.821	2.762	7.6	21.2
2 21	8 0.47	+21 1.6	1.893	2.771	11.4	21.4
3 2	7 55.36	+21 24.7	1.987	2.779	14.6	21.6

336717 2010 CE_{139} 1 24.8 56°.48 0°.4/24.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.24	+18 25.3	2.044	2.876	12.4	20.7
1 2	8 43.08	+18 57.5	1.975	2.884	9.0	20.5
1 12	8 35.93	+19 36.5	1.931	2.891	5.2	20.3
1 22	8 27.52	+20 18.0	1.915	2.898	1.1	20.0
2 1	8 18.80	+20 57.8	1.929	2.906	3.1	20.2
2 11	8 10.82	+21 31.9	1.972	2.913	7.1	20.4
2 21	8 4.45	+21 58.1	2.041	2.921	10.6	20.6
3 2	8 0.31	+22 15.4	2.134	2.929	13.6	20.9

345064 2005 GT_{172} 1 24.8 179°.28 0°.8/24.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.07	+20 27.1	2.714	3.538	9.9	21.6
1 2	8 42.58	+20 58.4	2.634	3.539	7.2	21.4
1 12	8 35.51	+21 33.5	2.581	3.539	4.1	21.2
1 22	8 27.42	+22 9.1	2.557	3.540	1.1	20.9
2 1	8 19.04	+22 41.7	2.565	3.540	2.8	21.1
2 11	8 11.19	+23 8.8	2.604	3.539	5.9	21.3
2 21	8 4.55	+23 28.8	2.670	3.538	8.8	21.5
3 2	7 59.68	+23 41.1	2.761	3.537	11.3	21.6

351530 2005 SF_{166} 1 24.8 138°.92 0°.8/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.16	+18 35.3	1.716	2.546	14.5	21.7
1 2	8 48.42	+19 20.6	1.652	2.559	10.6	21.5
1 12	8 39.15	+20 13.9	1.612	2.571	6.1	21.3
1 22	8 28.25	+21 9.3	1.600	2.583	1.4	21.0
2 1	8 16.98	+22 0.5	1.618	2.593	3.8	21.2
2 11	8 6.72	+22 42.6	1.664	2.603	8.4	21.5
2 21	7 58.57	+23 13.3	1.737	2.612	12.4	21.7
3 2	7 53.26	+23 32.2	1.832	2.621	15.7	22.0

287922 2003 UH_{9} 1 24.8 64°.76 16°.8/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.28	+42 30.9	0.965	1.823	20.9	19.3
1 2	8 56.42	+46 57.2	0.938	1.831	18.1	19.1
1 12	8 45.59	+51 1.5	0.933	1.840	16.8	19.1
1 22	8 29.92	+54 14.8	0.951	1.848	17.5	19.1
2 1	8 12.41	+56 18.0	0.990	1.857	19.8	19.3
2 11	7 57.13	+57 9.9	1.046	1.867	22.6	19.5
2 21	7 47.21	+57 3.2	1.116	1.876	25.3	19.8
3 2	7 43.97	+56 14.6	1.197	1.885	27.5	20.0

413254 2003 SM_{328} 1 24.8 54°.90 2°.9/26.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.74	+12 6.8	1.830	2.646	14.3	20.4
1 2	8 45.58	+11 35.4	1.769	2.664	10.8	20.2
1 12	8 37.32	+11 14.3	1.733	2.682	6.9	20.1
1 22	8 27.82	+11 2.6	1.724	2.699	3.5	19.9
2 1	8 18.14	+10 58.8	1.744	2.718	4.0	19.9
2 11	8 9.43	+11 0.4	1.793	2.736	7.5	20.2
2 21	8 2.56	+11 4.9	1.867	2.754	11.1	20.4
3 2	7 58.11	+11 10.1	1.965	2.773	14.1	20.7

354896 2006 BJ_{254} 1 24.8 246°.09 0°.4/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 54.43	+19 15.2	1.837	2.665	13.8	21.6
1 2	8 48.07	+19 30.4	1.742	2.649	10.2	21.4
1 12	8 39.10	+19 51.9	1.673	2.632	6.0	21.1
1 22	8 28.28	+20 15.7	1.631	2.614	1.3	20.7
2 1	8 16.78	+20 37.3	1.619	2.596	3.6	20.9
2 11	8 5.96	+20 52.9	1.636	2.576	8.3	21.1
2 21	7 57.03	+21 0.8	1.679	2.557	12.6	21.3
3 2	7 50.86	+21 0.6	1.744	2.536	16.3	21.5

104002 2000 DX_{99} 1 24.8 56°.04 5°.1/22.7 18

12 23	8 55.46	+27 15.6	1.199	2.058	17.5	18.8
1 2	8 49.50	+28 21.9	1.153	2.073	12.9	18.6
1 12	8 40.07	+29 27.9	1.129	2.088	8.1	18.3
1 22	8 28.47	+30 22.8	1.129	2.104	5.1	18.2
2 1	8 16.54	+30 57.8	1.155	2.119	7.4	18.4
2 11	8 6.28	+31 9.3	1.206	2.135	11.9	18.7
2 21	7 59.09	+30 59.2	1.279	2.152	16.1	19.0
3 2	7 55.70	+30 31.8	1.371	2.168	19.6	19.3

196639 2003 SD_{13} 1 24.8 72°.58 0°.7/25.2 18

12 23	8 48.88	+15 31.9	1.983	2.809	13.0	20.1
1 2	8 43.54	+15 54.2	1.915	2.820	9.5	19.9
1 12	8 36.20	+16 25.4	1.873	2.830	5.6	19.7
1 22	8 27.60	+17 2.1	1.858	2.840	1.5	19.4
2 1	8 18.71	+17 40.1	1.873	2.851	3.0	19.5
2 11	8 10.60	+18 15.5	1.916	2.861	7.0	19.8
2 21	8 4.14	+18 45.5	1.987	2.871	10.6	20.1
3 2	7 59.93	+19 8.4	2.080	2.882	13.7	20.3

416932 2005 SM_{87} 1 24.8 159°.54 0°.4/25.0 18

12 23	8 50.39	+16 13.8	2.026	2.851	12.8	21.8
1 2	8 44.68	+16 38.0	1.951	2.854	9.4	21.6
1 12	8 36.90	+17 10.6	1.900	2.857	5.5	21.3
1 22	8 27.76	+17 48.1	1.878	2.860	1.4	21.0
2 1	8 18.26	+18 26.2	1.885	2.863	3.0	21.2
2 11	8 9.49	+19 1.0	1.922	2.865	7.1	21.4
2 21	8 2.36	+19 29.9	1.986	2.867	10.8	21.7
3 2	7 57.53	+19 51.3	2.073	2.868	13.9	21.9

370738 2004 RV_{131} 1 24.8 115°.37 1°.1/25.5 18

12 23	8 49.43	+13 55.2	2.072	2.891	12.8	22.2
1 2	8 43.88	+14 19.4	2.001	2.901	9.5	22.0
1 12	8 36.38	+14 53.5	1.956	2.911	5.7	21.8
1 22	8 27.65	+15 34.4	1.939	2.920	1.9	21.6
2 1	8 18.61	+16 18.0	1.952	2.929	2.9	21.7
2 11	8 10.31	+17 0.2	1.994	2.938	6.8	21.9
2 21	8 3.59	+17 37.7	2.064	2.947	10.3	22.2
3 2	7 59.05	+18 8.7	2.157	2.956	13.3	22.4

318016 2004 DZ_{22} 1 24.8 327°.80 9°.1/29.4 18

12 23	8 46.84	− 2 43.2	1.554	2.332	18.2	20.2
1 2	8 42.65	− 3 23.1	1.472	2.323	15.3	20.0
1 12	8 36.00	− 3 36.8	1.410	2.314	12.3	19.8
1 22	8 27.62	− 3 21.3	1.370	2.306	9.8	19.6
2 1	8 18.61	− 2 36.5	1.355	2.298	9.2	19.6
2 11	8 10.31	− 1 27.4	1.365	2.291	11.0	19.7
2 21	8 3.87	− 0 1.7	1.398	2.285	14.1	19.8
3 2	8 0.13	+ 1 31.3	1.453	2.279	17.3	20.0

402589 2006 SQ_{43} 1 24.8 109°.71 0°.7/24.4 18

12 23	8 55.14	+20 9.7	2.072	2.895	12.6	22.3
1 2	8 47.88	+20 27.5	2.015	2.919	9.2	22.2
1 12	8 38.59	+20 49.0	1.985	2.943	5.2	22.0
1 22	8 28.12	+21 10.4	1.983	2.966	1.2	21.7
2 1	8 17.52	+21 27.9	2.012	2.988	3.2	21.9
2 11	8 7.89	+21 39.3	2.071	3.009	7.1	22.2
2 21	8 0.10	+21 43.5	2.158	3.030	10.5	22.4
3 2	7 54.70	+21 40.8	2.269	3.050	13.3	22.7

96244 1994 CA_{16} 1 24.8 263°.99 3°.6/23.1 18

12 23	8 55.58	+27 6.3	1.801	2.639	13.6	19.5
1 2	8 49.13	+27 41.3	1.709	2.618	10.1	19.2
1 12	8 39.83	+28 16.6	1.641	2.598	6.3	18.9
1 22	8 28.49	+28 45.5	1.601	2.576	3.6	18.7
2 1	8 16.40	+29 2.0	1.589	2.555	5.6	18.8
2 11	8 5.08	+29 2.6	1.606	2.533	9.7	19.0
2 21	7 55.86	+28 47.4	1.648	2.510	13.7	19.2
3 2	7 49.67	+28 18.8	1.711	2.487	17.2	19.4

158679 2003 FK_{29} 1 24.8 56°.71 6°.5/21.9 18

12 23	8 55.75	+30 31.9	1.278	2.134	16.9	19.7
1 2	8 49.74	+31 49.0	1.230	2.146	12.7	19.5
1 12	8 40.25	+33 2.2	1.204	2.158	8.6	19.3
1 22	8 28.55	+34 0.1	1.203	2.170	6.5	19.2
2 1	8 16.46	+34 33.9	1.228	2.183	8.5	19.3
2 11	8 5.97	+34 40.5	1.278	2.195	12.4	19.6
2 21	7 58.52	+34 22.7	1.349	2.208	16.3	19.8
3 2	7 54.85	+33 46.0	1.439	2.221	19.6	20.1

465056 2006 SD_{12} 1 24.8 152°.11 7°.4/ 1.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 45.54	−13 54.0	3.361	4.012	11.5	22.5
1 2	8 40.46	−14 17.0	3.281	4.021	10.2	22.4
1 12	8 34.19	−14 21.9	3.222	4.030	8.9	22.3
1 22	8 27.17	−14 7.4	3.187	4.039	7.9	22.2
2 1	8 19.95	−13 33.7	3.178	4.047	7.4	22.2
2 11	8 13.12	−12 42.9	3.197	4.054	7.8	22.2
2 21	8 7.21	−11 38.5	3.243	4.061	8.8	22.3
3 2	8 2.63	−10 25.1	3.313	4.068	10.0	22.4

14900 1992 RH_5 1 24.8 111°.05 1°.3/23.9 18

12 23	8 49.51	+21 27.1	2.249	3.080	11.5	19.0
1 2	8 43.88	+22 1.9	2.181	3.089	8.3	18.8
1 12	8 36.37	+22 40.3	2.138	3.098	4.8	18.6
1 22	8 27.67	+23 18.1	2.125	3.106	1.5	18.4
2 1	8 18.70	+23 51.3	2.141	3.115	3.4	18.5
2 11	8 10.44	+24 16.8	2.188	3.123	6.9	18.8
2 21	8 3.72	+24 33.0	2.261	3.131	10.1	19.0
3 2	7 59.11	+24 40.1	2.358	3.139	12.9	19.2

460347 2014 RD_{32} 1 24.8 62°.03 6°.5/29.3 16

12 23	8 50.02	− 1 6.1	1.602	2.380	17.8	21.2
1 2	8 44.51	− 0 43.7	1.553	2.410	14.3	21.1
1 12	8 36.79	+ 0 5.6	1.524	2.441	10.6	20.9
1 22	8 27.76	+ 1 19.8	1.520	2.472	7.4	20.8
2 1	8 18.57	+ 2 53.2	1.543	2.502	6.6	20.8
2 11	8 10.43	+ 4 37.5	1.595	2.532	8.8	21.0
2 21	8 4.24	+ 6 23.6	1.673	2.563	11.9	21.3
3 2	8 0.60	+ 8 4.2	1.774	2.593	15.0	21.5

70335 1999 RC_{169} 1 24.8 143°.03 1°.3/25.5 18

12 23	8 52.44	+13 47.5	1.979	2.795	13.4	20.1
1 2	8 46.15	+14 7.5	1.908	2.806	10.0	19.9
1 12	8 37.74	+14 37.7	1.863	2.816	6.0	19.7
1 22	8 27.99	+15 15.0	1.845	2.826	2.0	19.4
2 1	8 17.91	+15 55.2	1.857	2.835	3.1	19.5
2 11	8 8.64	+16 34.1	1.900	2.843	7.1	19.8
2 21	8 1.10	+17 8.6	1.969	2.851	10.8	20.0
3 2	7 55.93	+17 36.8	2.062	2.858	14.0	20.2

157097 2004 HR_{52} 1 24.8 137°.97 3°.6/26.4 18

12 23	8 52.39	+ 9 56.9	1.454	2.277	17.0	20.1
1 2	8 46.77	+ 9 51.3	1.383	2.279	13.0	19.9
1 12	8 38.39	+10 2.5	1.333	2.282	8.5	19.6
1 22	8 28.17	+10 28.9	1.308	2.284	4.3	19.4
2 1	8 17.42	+11 6.6	1.311	2.286	4.7	19.4
2 11	8 7.67	+11 50.0	1.341	2.288	9.1	19.6
2 21	8 0.13	+12 33.9	1.395	2.290	13.5	19.9
3 2	7 55.64	+13 13.9	1.471	2.291	17.4	20.2

142678 2002 TC_{224} 1 24.8 167°.29 0°.5/25.1 18

12 23	8 52.04	+16 36.4	1.972	2.796	13.1	20.4
1 2	8 45.93	+16 50.1	1.896	2.799	9.7	20.2
1 12	8 37.66	+17 11.6	1.845	2.802	5.7	19.9
1 22	8 27.98	+17 37.4	1.821	2.804	1.4	19.6
2 1	8 17.92	+18 3.8	1.828	2.806	3.1	19.8
2 11	8 8.65	+18 27.4	1.864	2.807	7.3	20.0
2 21	8 1.10	+18 45.9	1.927	2.808	11.1	20.3
3 2	7 55.97	+18 58.1	2.013	2.809	14.3	20.5

431460 2007 RA_{281} 1 24.8 66°.70 2°.7/23.6 18

12 23	8 55.25	+27 32.5	2.111	2.941	12.2	21.1
1 2	8 47.92	+27 38.8	2.061	2.967	8.9	20.9
1 12	8 38.58	+27 42.3	2.036	2.992	5.4	20.8
1 22	8 28.13	+27 39.0	2.041	3.018	2.7	20.6
2 1	8 17.68	+27 26.3	2.076	3.043	4.3	20.8
2 11	8 8.33	+27 3.7	2.140	3.068	7.5	21.0
2 21	8 0.89	+26 32.4	2.231	3.093	10.6	21.3
3 2	7 55.89	+25 54.4	2.346	3.118	13.2	21.5

372635 2009 VT_{81} 1 24.8 89°.52 3°.5/22.8 18

12 23	8 51.84	+27 12.6	1.946	2.786	12.6	21.0
1 2	8 45.91	+28 1.4	1.883	2.794	9.3	20.8
1 12	8 37.68	+28 49.8	1.845	2.801	5.8	20.6
1 22	8 27.98	+29 31.5	1.835	2.809	3.5	20.5
2 1	8 17.96	+30 1.4	1.854	2.817	5.3	20.6
2 11	8 8.86	+30 16.4	1.902	2.825	8.6	20.8
2 21	8 1.67	+30 16.6	1.975	2.832	11.9	21.1
3 2	7 57.06	+30 3.7	2.069	2.840	14.8	21.3

495630 2015 VW_{57} 1 24.8 358°.13 2°.8/26.1 17

12 23	8 48.82	+11 15.3	1.228	2.071	18.3	21.4
1 2	8 44.59	+11 29.7	1.159	2.068	13.9	21.1
1 12	8 37.32	+12 4.0	1.111	2.067	8.8	20.8
1 22	8 27.96	+12 54.7	1.087	2.066	3.7	20.5
2 1	8 17.96	+13 55.8	1.088	2.066	4.5	20.6
2 11	8 9.02	+14 59.2	1.115	2.067	9.8	20.9
2 21	8 2.55	+15 58.1	1.164	2.068	14.8	21.1
3 2	7 59.42	+16 47.6	1.233	2.070	19.1	21.4

176718 2002 QY_{83} 1 24.8 71°.65 2°.4/23.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 53.97	+22 53.0	1.562	2.405	15.0	20.6
1 2	8 47.65	+23 41.0	1.514	2.428	10.9	20.4
1 12	8 38.71	+24 32.5	1.489	2.450	6.3	20.2
1 22	8 28.20	+25 20.3	1.492	2.472	2.5	20.0
2 1	8 17.50	+25 58.2	1.522	2.494	4.8	20.2
2 11	8 8.04	+26 22.4	1.581	2.516	9.1	20.5
2 21	8 0.92	+26 32.5	1.664	2.538	12.9	20.8
3 2	7 56.76	+26 29.8	1.768	2.559	16.1	21.1

463463 2013 PV_{24} 1 24.8 126°.48 3°.2/26.3 18

12 23	8 52.03	+10 20.9	2.152	2.953	13.0	21.1
1 2	8 45.66	+ 9 49.4	2.077	2.961	9.9	20.9
1 12	8 37.38	+ 9 27.8	2.027	2.969	6.6	20.7
1 22	8 27.91	+ 9 15.6	2.005	2.977	3.7	20.5
2 1	8 18.18	+ 9 11.7	2.014	2.984	4.0	20.6
2 11	8 9.19	+ 9 14.1	2.052	2.991	7.0	20.8
2 21	8 1.76	+ 9 20.4	2.118	2.998	10.2	21.0
3 2	7 56.50	+ 9 28.3	2.207	3.005	13.1	21.2

58264 1993 SW_{7} 1 24.8 117°.19 1°.6/23.9 18

12 23	8 53.83	+22 24.8	2.043	2.872	12.5	20.3
1 2	8 47.09	+22 54.6	1.982	2.889	9.1	20.1
1 12	8 38.24	+23 26.9	1.947	2.906	5.3	19.9
1 22	8 28.10	+23 57.0	1.941	2.922	1.8	19.7
2 1	8 17.75	+24 20.8	1.965	2.937	3.7	19.9
2 11	8 8.32	+24 35.4	2.018	2.952	7.5	20.1
2 21	8 0.72	+24 40.3	2.099	2.967	10.9	20.4
3 2	7 55.56	+24 36.1	2.202	2.981	13.7	20.6

428861 2008 UN_{124} 1 24.8 34°.79 5°.7/21.7 18

12 23	8 53.04	+34 13.5	1.990	2.826	12.5	20.9
1 2	8 46.87	+35 1.6	1.928	2.830	9.6	20.7
1 12	8 38.26	+35 43.2	1.891	2.834	6.9	20.6
1 22	8 28.12	+36 11.4	1.881	2.839	5.7	20.5
2 1	8 17.67	+36 21.5	1.900	2.843	7.0	20.6
2 11	8 8.23	+36 11.8	1.946	2.848	9.7	20.8
2 21	8 0.86	+35 44.1	2.016	2.853	12.6	20.9
3 2	7 56.23	+35 2.1	2.107	2.858	15.2	21.1

202079 2004 SR_{39} 1 24.8 80°.82 0°.3/24.9 18

12 23	8 56.77	+16 35.5	1.538	2.367	15.9	20.4
1 2	8 49.47	+17 2.3	1.495	2.400	11.6	20.2
1 12	8 39.64	+17 38.2	1.475	2.433	6.7	20.0
1 22	8 28.39	+18 17.9	1.483	2.465	1.5	19.7
2 1	8 17.10	+18 55.9	1.519	2.497	3.6	19.9
2 11	8 7.16	+19 27.8	1.584	2.528	8.3	20.3
2 21	7 59.59	+19 51.5	1.675	2.558	12.3	20.6
3 2	7 54.97	+20 6.2	1.788	2.587	15.6	20.9

206386 2003 RR_{21} 1 24.8 124°.11 0°.1/24.7 18

12 23	8 54.07	+18 17.3	1.768	2.597	14.2	20.9
1 2	8 47.54	+18 34.5	1.702	2.609	10.4	20.7
1 12	8 38.63	+18 58.5	1.661	2.620	6.0	20.5
1 22	8 28.21	+19 25.2	1.648	2.631	1.3	20.2
2 1	8 17.49	+19 50.2	1.664	2.641	3.4	20.3
2 11	8 7.75	+20 9.8	1.709	2.651	7.9	20.6
2 21	8 0.04	+20 22.4	1.780	2.661	11.9	20.9
3 2	7 55.02	+20 27.3	1.873	2.670	15.2	21.1

280704 2005 GN_{54} 1 24.8 75°.23 3°.9/27.3 18

12 23	8 47.29	+ 6 10.4	2.147	2.943	13.2	21.1
1 2	8 42.25	+ 6 10.7	2.076	2.953	10.3	20.9
1 12	8 35.43	+ 6 25.7	2.029	2.964	7.1	20.7
1 22	8 27.50	+ 6 54.4	2.009	2.975	4.4	20.6
2 1	8 19.31	+ 7 34.1	2.018	2.986	4.3	20.6
2 11	8 11.77	+ 8 20.7	2.056	2.997	6.9	20.8
2 21	8 5.67	+ 9 10.0	2.121	3.008	9.9	21.0
3 2	8 1.57	+ 9 58.1	2.210	3.019	12.7	21.2

74430 1999 BN_{10} 1 24.8 174°.43 2°.5/23.6 18

12 23	8 53.07	+27 4.1	2.337	3.166	11.2	18.7
1 2	8 46.45	+27 12.9	2.261	3.166	8.2	18.5
1 12	8 37.86	+27 19.8	2.211	3.167	5.0	18.3
1 22	8 28.04	+27 21.0	2.190	3.167	2.5	18.2
2 1	8 17.97	+27 13.6	2.200	3.168	4.0	18.3
2 11	8 8.69	+26 56.4	2.240	3.168	7.2	18.5
2 21	8 1.05	+26 30.0	2.307	3.168	10.3	18.7
3 2	7 55.66	+25 56.0	2.397	3.168	13.0	18.9

395318 2011 OT_{24} 1 24.8 168°.03 1°.0/25.3 18

12 23	8 53.83	+14 45.4	1.829	2.649	14.2	22.1
1 2	8 47.40	+15 4.9	1.753	2.653	10.5	21.9
1 12	8 38.60	+15 34.7	1.702	2.657	6.3	21.7
1 22	8 28.25	+16 11.4	1.679	2.661	1.9	21.4
2 1	8 17.46	+16 50.4	1.686	2.663	3.3	21.5
2 11	8 7.52	+17 27.1	1.722	2.665	7.7	21.8
2 21	7 59.46	+17 58.6	1.784	2.666	11.8	22.0
3 2	7 54.01	+18 22.9	1.870	2.667	15.2	22.2

193883 2001 QC_{183} 1 24.8 96°.82 1°.9/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 54.06	+10 30.6	1.622	2.437	15.9	20.2
1 2	8 47.55	+11 21.5	1.568	2.463	11.9	20.1
1 12	8 38.63	+12 28.9	1.538	2.489	7.3	19.8
1 22	8 28.23	+13 47.3	1.535	2.515	2.8	19.6
2 1	8 17.61	+15 9.6	1.563	2.540	3.6	19.7
2 11	8 8.07	+16 28.6	1.619	2.564	8.0	20.1
2 21	8 0.65	+17 38.9	1.701	2.587	12.0	20.3
3 2	7 55.98	+18 37.5	1.807	2.610	15.4	20.6

470992 2009 SB_{128} 1 24.8 154°.98 1°.1/23.8 17

12 23	8 45.09	+23 3.5	3.575	4.399	7.8	21.7
1 2	8 40.15	+23 24.1	3.498	4.403	5.6	21.6
1 12	8 34.04	+23 45.7	3.448	4.406	3.3	21.4
1 22	8 27.21	+24 6.2	3.429	4.410	1.2	21.3
2 1	8 20.21	+24 23.3	3.441	4.413	2.4	21.4
2 11	8 13.61	+24 35.6	3.485	4.416	4.7	21.5
2 21	8 7.93	+24 42.1	3.557	4.419	7.0	21.7
3 2	8 3.56	+24 42.7	3.654	4.422	8.9	21.8

411330 2010 UN_{34} 1 24.8 108°.78 1°.5/24.0 18

12 23	8 54.87	+22 17.4	2.067	2.894	12.5	22.1
1 2	8 47.77	+22 46.0	2.012	2.918	9.0	22.0
1 12	8 38.61	+23 17.0	1.982	2.940	5.2	21.8
1 22	8 28.23	+23 45.6	1.981	2.962	1.7	21.6
2 1	8 17.70	+24 7.9	2.011	2.984	3.6	21.7
2 11	8 8.14	+24 21.3	2.071	3.005	7.3	22.0
2 21	8 0.43	+24 25.3	2.157	3.025	10.7	22.2
3 2	7 55.14	+24 20.6	2.267	3.044	13.5	22.5

372599 2009 UW_{149} 1 24.8 152°.56 1°.9/23.8 18

12 23	8 52.03	+23 38.6	2.052	2.886	12.3	21.4
1 2	8 45.94	+24 2.4	1.979	2.888	9.0	21.2
1 12	8 37.69	+24 28.0	1.931	2.891	5.3	21.0
1 22	8 28.06	+24 50.8	1.912	2.893	2.0	20.8
2 1	8 18.09	+25 7.0	1.923	2.895	3.9	20.9
2 11	8 8.94	+25 13.8	1.963	2.897	7.6	21.1
2 21	8 1.55	+25 10.7	2.029	2.898	11.1	21.3
3 2	7 56.57	+24 58.4	2.118	2.900	14.1	21.5

27923 1996 XJ_{32} 1 24.8 45°.41 0°.6/24.5 18

12 23	8 48.50	+19 11.2	1.974	2.810	12.7	18.4
1 2	8 43.31	+19 38.1	1.913	2.823	9.2	18.2
1 12	8 36.12	+20 10.8	1.876	2.836	5.3	18.0
1 22	8 27.70	+20 45.2	1.867	2.850	1.2	17.7
2 1	8 19.04	+21 17.1	1.888	2.865	3.2	17.9
2 11	8 11.20	+21 43.0	1.937	2.879	7.1	18.2
2 21	8 5.04	+22 1.1	2.013	2.894	10.7	18.4
3 2	8 1.15	+22 10.7	2.111	2.909	13.6	18.6

346191 2007 XX_{11} 1 24.8 292°.67 6°.5/28.1 17

12 23	8 47.30	+ 0 10.6	2.265	3.029	13.6	20.4
1 2	8 42.43	− 0 30.7	2.162	3.008	11.3	20.2
1 12	8 35.69	− 0 56.3	2.082	2.987	8.8	20.0
1 22	8 27.64	− 1 4.3	2.027	2.966	6.9	19.8
2 1	8 19.07	− 0 54.5	2.001	2.945	6.7	19.8
2 11	8 10.90	− 0 28.7	2.003	2.924	8.4	19.8
2 21	8 3.99	+ 0 9.4	2.031	2.903	11.0	19.9
3 2	7 59.03	+ 0 55.0	2.082	2.882	13.7	20.1

23402 Turchina 1 24.8 47°.78 1°.5/23.9 18

12 23	8 49.55	+21 48.1	1.897	2.736	12.9	17.8
1 2	8 44.15	+22 21.1	1.840	2.752	9.3	17.6
1 12	8 36.62	+22 57.7	1.808	2.768	5.4	17.4
1 22	8 27.81	+23 33.3	1.803	2.785	1.7	17.2
2 1	8 18.78	+24 3.1	1.828	2.802	3.8	17.4
2 11	8 10.66	+24 24.0	1.881	2.819	7.6	17.7
2 21	8 4.35	+24 34.7	1.959	2.836	11.1	17.9
3 2	8 0.45	+24 35.6	2.061	2.853	14.1	18.1

86421 2000 BC_{3} 1 24.8 64°.14 1°.6/24.1 18

12 23	8 53.92	+20 23.8	1.279	2.130	17.2	19.1
1 2	8 48.20	+21 4.3	1.222	2.140	12.5	18.8
1 12	8 39.35	+21 53.0	1.188	2.151	7.2	18.6
1 22	8 28.46	+22 42.3	1.179	2.161	2.0	18.3
2 1	8 17.16	+23 24.6	1.197	2.172	4.8	18.5
2 11	8 7.21	+23 54.5	1.240	2.183	10.1	18.8
2 21	7 59.96	+24 10.3	1.307	2.194	14.8	19.1
3 2	7 56.17	+24 12.6	1.394	2.206	18.6	19.4

462644 2009 SH_{134} 1 24.8 75°.60 6°.3/29.1 18

12 23	8 47.78	− 0 31.1	1.912	2.684	15.5	21.5
1 2	8 42.79	− 0 32.7	1.844	2.697	12.6	21.3
1 12	8 35.85	− 0 12.3	1.797	2.710	9.5	21.2
1 22	8 27.65	+ 0 29.9	1.776	2.723	7.0	21.0
2 1	8 19.16	+ 1 31.1	1.782	2.736	6.4	21.0
2 11	8 11.41	+ 2 45.8	1.817	2.749	8.3	21.2
2 21	8 5.25	+ 4 7.3	1.877	2.762	11.1	21.4
3 2	8 1.29	+ 5 29.3	1.962	2.775	14.0	21.6

89609 2001 XN_{179} 1 24.8 122°.04 1°.2/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 53.46	+19 0.0	1.657	2.492	14.7	20.2
1 2	8 47.34	+19 55.9	1.594	2.504	10.7	20.0
1 12	8 38.65	+21 0.3	1.555	2.515	6.1	19.7
1 22	8 28.31	+22 6.6	1.544	2.526	1.6	19.5
2 1	8 17.56	+23 7.8	1.562	2.537	4.1	19.7
2 11	8 7.81	+23 58.1	1.608	2.547	8.6	20.0
2 21	8 0.18	+24 35.1	1.681	2.557	12.7	20.2
3 2	7 55.40	+24 58.4	1.774	2.566	16.1	20.5

47786 2000 EQ_{20} 1 24.8 313°.12 7°.8/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.80	− 2 5.7	1.991	2.753	15.3	17.4
1 2	8 42.22	− 2 51.3	1.901	2.742	12.8	17.2
1 12	8 35.63	− 3 17.3	1.832	2.730	10.3	17.1
1 22	8 27.65	− 3 21.2	1.788	2.719	8.3	16.9
2 1	8 19.15	− 3 2.6	1.770	2.708	7.9	16.9
2 11	8 11.19	− 2 24.2	1.779	2.697	9.5	16.9
2 21	8 4.68	− 1 31.0	1.813	2.686	12.0	17.1
3 2	8 0.34	− 0 29.0	1.869	2.676	14.8	17.2

27451 2000 GE_{20} 1 24.8 187°.58 0°.5/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.71	+18 20.2	2.547	3.370	10.5	19.2
1 2	8 42.50	+19 4.4	2.465	3.370	7.7	19.0
1 12	8 35.61	+19 54.7	2.411	3.369	4.4	18.8
1 22	8 27.62	+20 47.6	2.385	3.368	1.0	18.6
2 1	8 19.28	+21 38.7	2.391	3.367	2.7	18.7
2 11	8 11.45	+22 24.6	2.427	3.365	6.1	18.9
2 21	8 4.88	+23 2.8	2.492	3.364	9.2	19.1
3 2	8 0.14	+23 32.1	2.580	3.362	11.9	19.3

162159 1999 CV_{140} 1 24.8 141°.56 0°.1/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.81	+17 40.5	2.400	3.223	11.1	20.5
1 2	8 43.30	+18 0.5	2.325	3.228	8.1	20.3
1 12	8 36.05	+18 26.2	2.275	3.233	4.7	20.1
1 22	8 27.71	+18 54.7	2.255	3.238	1.1	19.9
2 1	8 19.09	+19 22.8	2.265	3.242	2.7	20.0
2 11	8 11.09	+19 47.4	2.306	3.247	6.2	20.3
2 21	8 4.46	+20 6.7	2.373	3.251	9.4	20.5
3 2	7 59.77	+20 19.7	2.466	3.255	12.1	20.7

51764 2001 LR_{8} 1 24.8 24°.78 5°.8/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.76	+ 4 0.0	1.732	2.533	15.7	17.8
1 2	8 42.20	+ 3 29.7	1.669	2.544	12.5	17.6
1 12	8 35.56	+ 3 18.1	1.627	2.555	9.1	17.4
1 22	8 27.61	+ 3 25.4	1.610	2.568	6.4	17.3
2 1	8 19.38	+ 3 49.8	1.620	2.581	6.1	17.3
2 11	8 11.97	+ 4 27.3	1.657	2.595	8.5	17.5
2 21	8 6.28	+ 5 12.5	1.719	2.610	11.6	17.7
3 2	8 2.94	+ 6 0.1	1.804	2.625	14.6	17.9

238643 2005 EX_{17} 1 24.8 347°.95 0°.8/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.65	+15 23.2	1.944	2.774	13.1	20.8
1 2	8 42.85	+15 43.3	1.866	2.771	9.7	20.6
1 12	8 35.97	+16 13.0	1.812	2.769	5.8	20.4
1 22	8 27.72	+16 49.0	1.785	2.767	1.6	20.1
2 1	8 19.06	+17 27.3	1.787	2.765	3.0	20.2
2 11	8 11.09	+18 3.7	1.818	2.764	7.2	20.4
2 21	8 4.73	+18 35.1	1.875	2.763	11.0	20.7
3 2	8 0.66	+18 59.4	1.955	2.762	14.2	20.9

109826 2001 RQ_{114} 1 24.8 154°.71 2°.9/23.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.13	+26 53.1	2.258	3.087	11.5	21.5
1 2	8 47.33	+27 32.3	2.190	3.095	8.5	21.3
1 12	8 38.45	+28 10.8	2.147	3.102	5.2	21.1
1 22	8 28.25	+28 43.5	2.135	3.109	3.0	21.0
2 1	8 17.77	+29 5.9	2.152	3.116	4.5	21.1
2 11	8 8.09	+29 15.8	2.200	3.122	7.7	21.3
2 21	8 0.14	+29 13.2	2.274	3.127	10.8	21.5
3 2	7 54.53	+28 59.5	2.371	3.131	13.4	21.7

426296 2012 TB_{94} 1 24.8 188°.07 0°.9/25.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.43	+14 25.8	2.726	3.538	10.3	22.2
1 2	8 42.16	+14 48.0	2.641	3.537	7.6	22.0
1 12	8 35.36	+15 17.7	2.583	3.536	4.6	21.8
1 22	8 27.57	+15 52.4	2.554	3.535	1.5	21.6
2 1	8 19.48	+16 29.3	2.556	3.533	2.4	21.6
2 11	8 11.87	+17 5.3	2.588	3.531	5.5	21.9
2 21	8 5.40	+17 38.0	2.650	3.528	8.5	22.0
3 2	8 0.61	+18 5.7	2.736	3.525	11.1	22.2

209065 2003 QR_{66} 1 24.8 99°.74 1°.8/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.86	+11 47.3	1.676	2.497	15.2	20.9
1 2	8 46.01	+12 21.7	1.615	2.513	11.4	20.6
1 12	8 37.81	+13 10.6	1.577	2.530	7.0	20.4
1 22	8 28.13	+14 10.0	1.566	2.545	2.6	20.2
2 1	8 18.13	+15 13.8	1.584	2.561	3.5	20.3
2 11	8 9.09	+16 16.1	1.630	2.576	7.8	20.6
2 21	8 2.02	+17 12.1	1.703	2.591	11.9	20.8
3 2	7 57.59	+17 58.9	1.798	2.606	15.3	21.1

385627 2005 NZ_{43} 1 24.8 154°.44 0°.8/25.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 48.32	+15 53.7	2.742	3.555	10.2	21.7
1 2	8 42.73	+15 55.7	2.663	3.560	7.5	21.5
1 12	8 35.65	+16 3.1	2.610	3.564	4.5	21.3
1 22	8 27.63	+16 14.1	2.587	3.568	1.4	21.1
2 1	8 19.38	+16 26.6	2.595	3.572	2.4	21.2
2 11	8 11.66	+16 38.5	2.633	3.575	5.5	21.4
2 21	8 5.14	+16 48.2	2.700	3.579	8.4	21.6
3 2	8 0.31	+16 54.7	2.792	3.582	10.9	21.8

304830 2007 RY_{22} 1 24.8 59°.63 1°.4/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.43	+14 23.9	1.353	2.190	17.2	21.1
1 2	8 47.42	+14 38.2	1.306	2.214	12.7	20.9
1 12	8 38.68	+15 5.7	1.281	2.238	7.6	20.6
1 22	8 28.31	+15 41.6	1.281	2.263	2.4	20.4
2 1	8 17.78	+16 20.5	1.309	2.287	3.9	20.5
2 11	8 8.59	+16 56.8	1.363	2.312	8.8	20.9
2 21	8 1.86	+17 27.0	1.442	2.336	13.2	21.2
3 2	7 58.22	+17 49.1	1.542	2.361	16.8	21.5

466017 2011 HW_{1} 1 24.8 318°.25 2°.8/23.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.15	+24 1.0	1.753	2.600	13.5	21.0
1 2	8 44.38	+24 50.3	1.671	2.587	9.9	20.7
1 12	8 37.08	+25 43.9	1.614	2.574	5.9	20.5
1 22	8 28.01	+26 35.6	1.583	2.562	2.9	20.2
2 1	8 18.34	+27 18.8	1.581	2.550	5.0	20.3
2 11	8 9.42	+27 48.8	1.606	2.539	9.1	20.6
2 21	8 2.41	+28 3.9	1.655	2.528	13.1	20.8
3 2	7 58.16	+28 4.6	1.726	2.517	16.5	21.0

46921 1998 SW_{13} 1 24.8 178°.10 2°.5/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.66	+ 7 35.4	2.739	3.527	10.9	19.9
1 2	8 42.31	+ 8 3.0	2.653	3.529	8.4	19.7
1 12	8 35.45	+ 8 42.6	2.591	3.530	5.6	19.6
1 22	8 27.61	+ 9 32.5	2.560	3.531	3.0	19.4
2 1	8 19.46	+10 29.6	2.559	3.531	3.1	19.4
2 11	8 11.77	+11 30.0	2.590	3.531	5.6	19.6
2 21	8 5.18	+12 30.2	2.650	3.530	8.4	19.7
3 2	8 0.23	+13 26.9	2.735	3.528	11.0	19.9

87816 2000 SA_{156} 1 24.8 171°.99 1°.5/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.86	+12 34.5	2.793	3.599	10.2	20.2
1 2	8 41.68	+12 43.3	2.710	3.601	7.6	20.0
1 12	8 35.06	+12 59.9	2.653	3.602	4.8	19.8
1 22	8 27.52	+13 22.6	2.626	3.604	2.0	19.6
2 1	8 19.71	+13 49.1	2.629	3.605	2.5	19.7
2 11	8 12.39	+14 16.8	2.663	3.606	5.4	19.9
2 21	8 6.17	+14 43.5	2.726	3.606	8.2	20.0
3 2	8 1.56	+15 7.3	2.813	3.607	10.7	20.2

105102 2000 LA_{11} 1 24.8 221°.48 3°.4/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.21	+ 6 36.4	2.392	3.180	12.3	20.1
1 2	8 43.71	+ 6 48.2	2.295	3.169	9.6	19.9
1 12	8 36.40	+ 7 14.0	2.223	3.158	6.6	19.7
1 22	8 27.85	+ 7 52.5	2.179	3.147	3.9	19.5
2 1	8 18.85	+ 8 41.2	2.165	3.134	3.9	19.5
2 11	8 10.30	+ 9 36.2	2.181	3.121	6.6	19.7
2 21	8 3.01	+10 33.2	2.226	3.108	9.8	19.8
3 2	7 57.62	+11 28.6	2.296	3.094	12.7	20.0

333120 2011 WN_{7} 1 24.8 148°.98 0°.9/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.11	+19 54.6	1.854	2.684	13.6	22.1
1 2	8 47.62	+20 26.0	1.784	2.692	9.9	21.9
1 12	8 38.76	+21 3.2	1.740	2.699	5.7	21.6
1 22	8 28.37	+21 41.2	1.723	2.706	1.4	21.3
2 1	8 17.62	+22 15.0	1.737	2.713	3.6	21.5
2 11	8 7.78	+22 40.9	1.780	2.718	7.9	21.8
2 21	7 59.87	+22 57.1	1.849	2.724	11.8	22.0
3 2	7 54.60	+23 3.7	1.940	2.728	15.0	22.3

208519 2001 XU_{190} 1 24.8 277°.14 7°.3/26.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.19	+ 5 44.7	1.683	2.471	16.6	20.3
1 2	8 51.12	+ 4 8.1	1.579	2.447	13.5	20.0
1 12	8 41.14	+ 2 41.1	1.498	2.422	10.1	19.8
1 22	8 28.99	+ 1 27.8	1.444	2.397	7.6	19.5
2 1	8 15.87	+ 0 32.1	1.419	2.371	7.9	19.5
2 11	8 3.31	− 0 4.9	1.422	2.345	11.0	19.6
2 21	7 52.68	− 0 24.5	1.451	2.319	14.9	19.8
3 2	7 45.03	− 0 30.5	1.501	2.292	18.5	19.9

466469 2013 TN_{130} 1 24.8 50°.95 5°.5/22.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.82	+33 5.3	1.835	2.674	13.3	20.1
1 2	8 47.44	+33 55.7	1.790	2.695	10.0	20.0
1 12	8 38.60	+34 39.2	1.769	2.716	7.0	19.8
1 22	8 28.31	+35 9.1	1.776	2.737	5.5	19.8
2 1	8 17.88	+35 20.6	1.810	2.758	6.9	19.9
2 11	8 8.67	+35 12.6	1.872	2.779	9.8	20.1
2 21	8 1.67	+34 47.1	1.958	2.801	12.7	20.3
3 2	7 57.49	+34 7.9	2.065	2.823	15.2	20.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
36849 2000 SL_{122}			1 24.8 343°.97		5°.1/22.1 18	
	h m	° ′			°	m
12 23	8 51.29	+29 33.9	1.675	2.523	13.9	18.7
1 2	8 46.07	+30 36.3	1.606	2.519	10.4	18.5
1 12	8 38.09	+31 37.5	1.562	2.515	6.9	18.3
1 22	8 28.26	+32 29.1	1.544	2.512	5.1	18.2
2 1	8 17.89	+33 4.3	1.553	2.509	6.9	18.3
2 11	8 8.51	+33 19.3	1.589	2.507	10.4	18.5
2 21	8 1.33	+33 14.4	1.649	2.505	14.0	18.7
3 2	7 57.17	+32 52.5	1.728	2.503	17.1	18.9
492079 2013 JH_{10}			1 24.8 236°.52		4°.5/22.4 18	
12 23	8 53.80	+28 12.6	1.748	2.590	13.7	21.5
1 2	8 47.83	+29 14.1	1.674	2.585	10.2	21.2
1 12	8 39.11	+30 15.8	1.624	2.579	6.6	21.0
1 22	8 28.50	+31 9.8	1.602	2.573	4.5	20.9
2 1	8 17.29	+31 48.9	1.608	2.567	6.4	21.0
2 11	8 6.98	+32 9.1	1.641	2.560	10.0	21.2
2 21	7 58.84	+32 10.3	1.699	2.554	13.7	21.4
3 2	7 53.71	+31 55.0	1.777	2.547	16.9	21.6
359120 2009 BH_{49}			1 24.8 260°.00		0°.1/24.8 18	
12 23	8 52.37	+17 34.7	1.758	2.589	14.2	21.7
1 2	8 46.74	+18 1.3	1.665	2.572	10.5	21.4
1 12	8 38.50	+18 37.3	1.596	2.555	6.2	21.1
1 22	8 28.38	+19 18.5	1.554	2.537	1.4	20.8
2 1	8 17.53	+19 59.7	1.541	2.518	3.6	20.9
2 11	8 7.32	+20 35.8	1.557	2.500	8.4	21.1
2 21	7 58.98	+21 3.6	1.598	2.480	12.9	21.3
3 2	7 53.41	+21 21.9	1.661	2.461	16.6	21.5
364380 2006 VC_{28}			1 24.8 95°.44		5°.4/27.6 18	
12 23	8 52.79	+ 4 20.6	1.908	2.693	15.0	20.8
1 2	8 46.33	+ 3 48.9	1.848	2.715	11.9	20.6
1 12	8 37.85	+ 3 33.7	1.811	2.736	8.6	20.5
1 22	8 28.16	+ 3 35.3	1.800	2.758	5.9	20.3
2 1	8 18.27	+ 3 52.0	1.819	2.778	5.7	20.4
2 11	8 9.27	+ 4 20.3	1.866	2.799	8.1	20.6
2 21	8 2.04	+ 4 55.7	1.939	2.819	11.1	20.8
3 2	7 57.14	+ 5 33.7	2.036	2.838	13.9	21.0
476638 2008 SO_{252}			1 24.8 247°.82		18°.9/13.8 16	
12 23	9 13.07	+54 38.8	1.170	1.976	21.3	21.1
1 2	9 5.87	+57 23.1	1.130	1.970	19.7	20.9
1 12	8 51.47	+59 37.0	1.109	1.964	19.0	20.9
1 22	8 31.48	+60 58.5	1.107	1.958	19.3	20.9
2 1	8 9.85	+61 13.5	1.123	1.951	20.8	20.9
2 11	7 51.54	+60 23.5	1.155	1.945	22.8	21.0
2 21	7 39.76	+58 42.8	1.202	1.938	25.0	21.2
3 2	7 35.39	+56 28.5	1.261	1.931	27.1	21.3
458945 2011 UR_{340}			1 24.8 101°.73		3°.5/23.2 18	
12 23	8 55.85	+25 56.9	1.605	2.447	14.7	21.8
1 2	8 49.18	+26 46.6	1.549	2.461	10.8	21.6
1 12	8 39.76	+27 36.7	1.517	2.475	6.6	21.4
1 22	8 28.61	+28 20.0	1.512	2.489	3.6	21.2
2 1	8 17.15	+28 49.8	1.536	2.502	5.6	21.4
2 11	8 6.92	+29 3.2	1.587	2.515	9.6	21.6
2 21	7 59.07	+29 0.5	1.663	2.528	13.4	21.9
3 2	7 54.32	+28 44.2	1.760	2.541	16.6	22.1
208468 2001 UL_{85}			1 24.8 17°.65		2°.3/26.1 18	
12 23	8 46.51	+11 38.3	1.878	2.701	13.7	20.6
1 2	8 42.00	+11 46.6	1.807	2.706	10.3	20.4
1 12	8 35.47	+12 7.3	1.760	2.711	6.5	20.2
1 22	8 27.65	+12 38.2	1.739	2.717	2.9	20.0
2 1	8 19.50	+13 15.8	1.747	2.724	3.4	20.0
2 11	8 12.08	+13 55.7	1.783	2.731	7.2	20.3
2 21	8 6.28	+14 34.0	1.845	2.738	10.8	20.5
3 2	8 2.74	+15 7.7	1.930	2.746	14.0	20.7
217290 2004 FF_{129}			1 24.8 148°.01		7°.1/20.1 18	
12 23	8 59.66	+41 59.6	2.493	3.299	11.3	21.2
1 2	8 51.48	+43 3.4	2.440	3.311	9.2	21.1
1 12	8 40.91	+43 55.6	2.413	3.322	7.6	21.0
1 22	8 28.85	+44 29.5	2.414	3.333	7.1	21.0
2 1	8 16.53	+44 40.9	2.444	3.343	8.1	21.0
2 11	8 5.26	+44 29.0	2.501	3.352	9.9	21.2
2 21	7 56.07	+43 56.8	2.582	3.360	11.9	21.3
3 2	7 49.61	+43 8.8	2.685	3.368	13.7	21.5
502772 2015 DA_{83}			1 24.8 215°.32		0°.7/24.3 17	
12 23	8 47.91	+20 3.0	2.782	3.604	9.8	22.1
1 2	8 42.56	+20 31.5	2.694	3.598	7.1	22.0
1 12	8 35.64	+21 4.1	2.633	3.592	4.1	21.8
1 22	8 27.68	+21 37.6	2.602	3.585	1.0	21.5
2 1	8 19.40	+22 8.8	2.603	3.578	2.6	21.6
2 11	8 11.58	+22 35.2	2.634	3.570	5.8	21.8
2 21	8 4.92	+22 54.9	2.693	3.562	8.7	22.0
3 2	7 59.97	+23 7.5	2.776	3.554	11.2	22.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
430101 2013 SO_{75}			1 24.8 40°.12		1°.9/24.2 18	
	h m	° ′			°	m
12 23	8 56.48	+25 32.7	1.663	2.502	14.5	20.0
1 2	8 49.30	+25 14.8	1.609	2.519	10.6	19.8
1 12	8 39.63	+24 55.0	1.578	2.538	6.2	19.6
1 22	8 28.54	+24 29.8	1.575	2.556	2.2	19.4
2 1	8 17.41	+23 57.1	1.601	2.575	4.2	19.6
2 11	8 7.62	+23 16.8	1.656	2.595	8.4	19.8
2 21	8 0.14	+22 30.7	1.736	2.615	12.2	20.1
3 2	7 55.57	+21 41.0	1.839	2.635	15.4	20.4
83643 2001 ST_{343}			1 24.8 98°.71		4°.5/21.4 18	
12 23	8 51.91	+25 38.1	1.794	2.637	13.4	19.2
1 2	8 46.40	+27 40.4	1.730	2.643	9.8	18.9
1 12	8 38.28	+29 47.2	1.693	2.649	6.3	18.7
1 22	8 28.33	+31 48.0	1.685	2.655	4.6	18.6
2 1	8 17.75	+33 32.9	1.707	2.660	6.6	18.8
2 11	8 7.97	+34 55.1	1.757	2.666	10.1	19.0
2 21	8 0.18	+35 52.5	1.832	2.672	13.5	19.2
3 2	7 55.24	+36 26.9	1.928	2.678	16.4	19.4
289957 2005 NZ_{68}			1 24.8 135°.73		1°.9/23.6 18	
12 23	8 52.27	+22 22.4	2.258	3.086	11.6	21.6
1 2	8 45.96	+23 16.3	2.193	3.100	8.4	21.4
1 12	8 37.67	+24 13.4	2.155	3.113	4.9	21.2
1 22	8 28.15	+25 8.6	2.146	3.126	2.0	21.1
2 1	8 18.33	+25 56.9	2.168	3.138	3.8	21.2
2 11	8 9.25	+26 34.8	2.220	3.150	7.2	21.4
2 21	8 1.77	+27 0.7	2.299	3.160	10.3	21.7
3 2	7 56.49	+27 15.1	2.402	3.171	13.0	21.9
24811 1994 VB			1 24.8 126°.91		6°.8/20.8 18	
12 23	8 58.05	+36 58.1	2.022	2.848	12.8	19.1
1 2	8 50.61	+38 11.5	1.971	2.862	10.0	18.9
1 12	8 40.53	+39 15.9	1.945	2.876	7.7	18.8
1 22	8 28.79	+40 3.2	1.947	2.890	6.8	18.8
2 1	8 16.75	+40 27.7	1.977	2.902	8.1	18.9
2 11	8 5.86	+40 28.0	2.034	2.915	10.5	19.0
2 21	7 57.24	+40 6.7	2.116	2.926	13.1	19.2
3 2	7 51.60	+39 28.6	2.218	2.938	15.3	19.4
203263 2001 QS_{246}			1 24.8 157°.72		8°.2/19.1 18	
12 23	8 59.19	+47 43.8	2.639	3.429	11.2	20.1
1 2	8 51.23	+48 40.0	2.585	3.433	9.6	20.0
1 12	8 40.80	+49 21.8	2.555	3.436	8.4	19.9
1 22	8 28.85	+49 42.9	2.552	3.440	8.2	19.9
2 1	8 16.65	+49 39.3	2.576	3.443	9.0	19.9
2 11	8 5.56	+49 11.2	2.625	3.445	10.5	20.0
2 21	7 56.64	+48 21.8	2.699	3.448	12.1	20.2
3 2	7 50.54	+47 16.0	2.792	3.450	13.7	20.3
465298 2007 TF_{385}			1 24.8 108°.41		5°.1/21.6 18	
12 23	8 53.43	+34 47.7	2.418	3.245	10.9	21.2
1 2	8 46.80	+35 34.4	2.361	3.257	8.4	21.0
1 12	8 38.14	+36 14.5	2.330	3.269	6.1	20.9
1 22	8 28.25	+36 42.7	2.328	3.281	5.1	20.8
2 1	8 18.14	+36 55.0	2.355	3.293	6.2	20.9
2 11	8 8.92	+36 50.2	2.411	3.305	8.5	21.1
2 21	8 1.44	+36 29.6	2.492	3.316	10.9	21.3
3 2	7 56.30	+35 56.1	2.595	3.327	13.1	21.4
41678 2000 UV_{7}			1 24.8 41°.76		0°.4/24.7 18	
12 23	8 52.45	+18 40.5	1.260	2.112	17.3	18.4
1 2	8 47.08	+19 0.6	1.207	2.125	12.7	18.2
1 12	8 38.69	+19 29.8	1.176	2.139	7.3	17.9
1 22	8 28.40	+20 2.5	1.170	2.153	1.6	17.6
2 1	8 17.80	+20 32.5	1.190	2.168	4.2	17.8
2 11	8 8.57	+20 54.8	1.235	2.183	9.6	18.2
2 21	8 1.96	+21 7.5	1.304	2.199	14.3	18.5
3 2	7 58.68	+21 10.0	1.393	2.215	18.1	18.8
31792 1999 LY_{4}			1 24.8 297°.53		7°.2/29.9 18	
12 23	8 45.26	− 4 16.3	2.265	3.010	14.1	19.2
1 2	8 40.94	− 4 31.6	2.169	2.996	12.0	19.0
1 12	8 34.85	− 4 26.2	2.094	2.983	9.7	18.8
1 22	8 27.55	− 3 58.4	2.044	2.970	7.8	18.7
2 1	8 19.79	− 3 9.2	2.021	2.956	7.3	18.6
2 11	8 12.47	− 2 1.9	2.026	2.943	8.5	18.7
2 21	8 6.39	− 0 42.0	2.057	2.930	10.8	18.8
3 2	8 2.20	+ 0 44.1	2.112	2.918	13.4	18.9
151586 2002 UK_{15}			1 24.8 351°.30		2°.3/23.5 18	
12 23	8 50.08	+21 22.9	1.580	2.427	14.7	19.8
1 2	8 45.19	+22 27.0	1.509	2.426	10.7	19.6
1 12	8 37.61	+23 39.1	1.462	2.424	6.2	19.3
1 22	8 28.19	+24 51.5	1.442	2.423	2.4	19.1
2 1	8 18.20	+25 56.5	1.450	2.422	4.9	19.2
2 11	8 9.11	+26 47.9	1.485	2.422	9.4	19.5
2 21	8 2.13	+27 22.8	1.545	2.421	13.6	19.7
3 2	7 58.09	+27 41.4	1.625	2.421	17.1	20.0

406891 2009 DY_{49} 1 24.8 179°.11 3°.4/23.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 54.94	+27 3.7	1.927	2.762	12.9	21.6
1 2	8 48.33	+27 46.9	1.855	2.764	9.5	21.4
1 12	8 39.24	+28 29.8	1.809	2.764	5.9	21.2
1 22	8 28.53	+29 6.1	1.790	2.765	3.5	21.0
2 1	8 17.40	+29 30.5	1.801	2.765	5.2	21.1
2 11	8 7.17	+29 39.9	1.840	2.764	8.8	21.3
2 21	7 58.94	+29 34.6	1.906	2.763	12.3	21.5
3 2	7 53.45	+29 16.5	1.993	2.762	15.3	21.7

397372 2006 UD_{263} 1 24.8 101°.10 4°.5/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.96	+ 5 47.7	2.147	2.926	13.8	21.1
1 2	8 47.65	+ 5 16.7	2.090	2.956	10.7	20.9
1 12	8 38.52	+ 4 59.5	2.057	2.985	7.6	20.8
1 22	8 28.33	+ 4 55.8	2.053	3.013	5.0	20.7
2 1	8 18.04	+ 5 4.3	2.079	3.041	4.9	20.7
2 11	8 8.64	+ 5 21.9	2.135	3.067	7.3	20.9
2 21	8 0.90	+ 5 45.4	2.219	3.093	10.1	21.1
3 2	7 55.35	+ 6 11.3	2.327	3.118	12.7	21.4

350361 2012 UC_{135} 1 24.8 42°.47 2°.8/25.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.19	+12 25.3	1.143	1.988	19.2	20.4
1 2	8 47.08	+12 22.5	1.089	1.999	14.4	20.1
1 12	8 38.79	+12 37.2	1.054	2.011	9.0	19.8
1 22	8 28.45	+13 6.3	1.043	2.023	3.7	19.6
2 1	8 17.72	+13 44.2	1.058	2.035	4.7	19.7
2 11	8 8.37	+14 24.3	1.097	2.049	10.0	20.0
2 21	8 1.75	+15 1.2	1.159	2.062	14.9	20.3
3 2	7 58.63	+15 31.3	1.240	2.076	19.1	20.6

103309 2000 AR_{55} 1 24.8 40°.65 0°.6/25.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.62	+18 1.5	1.118	1.972	18.9	18.7
1 2	8 48.92	+17 53.4	1.066	1.984	13.9	18.4
1 12	8 39.85	+17 54.9	1.034	1.996	8.2	18.1
1 22	8 28.69	+18 1.7	1.027	2.009	2.0	17.8
2 1	8 17.21	+18 9.0	1.044	2.023	4.4	18.0
2 11	8 7.32	+18 12.9	1.087	2.037	10.2	18.4
2 21	8 0.38	+18 11.5	1.152	2.052	15.3	18.7
3 2	7 57.10	+18 4.1	1.236	2.068	19.4	19.0

310207 2011 SW_{164} 1 24.8 161°.52 2°.8/27.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.16	+ 6 57.6	2.992	3.777	10.1	21.2
1 2	8 40.39	+ 7 3.2	2.908	3.780	7.8	21.1
1 12	8 34.32	+ 7 19.2	2.849	3.783	5.4	20.9
1 22	8 27.42	+ 7 44.6	2.819	3.786	3.3	20.8
2 1	8 20.28	+ 8 17.7	2.820	3.788	3.2	20.8
2 11	8 13.56	+ 8 55.6	2.851	3.790	5.3	20.9
2 21	8 7.83	+ 9 35.6	2.911	3.792	7.7	21.1
3 2	8 3.54	+10 15.1	2.997	3.794	10.0	21.2

222336 2000 UG_{96} 1 24.8 51°.15 3°.1/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.66	+11 17.3	1.607	2.429	15.7	19.6
1 2	8 45.82	+10 58.9	1.553	2.450	11.9	19.4
1 12	8 37.68	+10 53.8	1.523	2.472	7.6	19.2
1 22	8 28.17	+11 0.2	1.519	2.494	3.8	19.0
2 1	8 18.49	+11 15.5	1.542	2.517	4.2	19.1
2 11	8 9.91	+11 35.6	1.594	2.540	8.0	19.4
2 21	8 3.36	+11 57.2	1.670	2.563	11.8	19.7
3 2	7 59.44	+12 17.0	1.769	2.586	15.1	19.9

463708 2014 QC_{167} 1 24.8 64°.24 6°.5/21.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.75	+32 7.4	1.647	2.490	14.4	21.2
1 2	8 49.13	+33 51.8	1.614	2.521	10.9	21.0
1 12	8 39.73	+35 29.5	1.606	2.551	7.7	20.9
1 22	8 28.64	+36 50.5	1.626	2.582	6.5	20.9
2 1	8 17.35	+37 47.1	1.673	2.612	8.1	21.1
2 11	8 7.41	+38 17.1	1.746	2.643	11.0	21.3
2 21	7 59.95	+38 22.7	1.844	2.673	13.9	21.6
3 2	7 55.63	+38 8.4	1.961	2.703	16.4	21.8

419232 2009 VT_{23} 1 24.8 2°.14 0°.5/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.20	+20 6.1	1.180	2.047	17.2	20.0
1 2	8 42.81	+20 2.8	1.119	2.044	12.7	19.7
1 12	8 36.38	+20 6.4	1.078	2.043	7.4	19.5
1 22	8 27.94	+20 12.8	1.061	2.044	1.6	19.1
2 1	8 19.03	+20 17.2	1.068	2.047	4.3	19.3
2 11	8 11.36	+20 16.1	1.100	2.053	9.9	19.6
2 21	8 6.22	+20 7.8	1.154	2.060	14.8	19.9
3 2	8 4.40	+19 51.8	1.227	2.069	18.9	20.2

350658 2001 TY_{241} 1 24.8 86°.85 1°.2/24.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.57	+18 33.1	1.460	2.299	16.1	21.0
1 2	8 48.32	+19 32.4	1.408	2.321	11.7	20.8
1 12	8 39.30	+20 41.0	1.381	2.341	6.7	20.6
1 22	8 28.57	+21 51.4	1.379	2.362	1.7	20.3
2 1	8 17.55	+22 55.5	1.407	2.382	4.3	20.5
2 11	8 7.77	+23 47.4	1.462	2.402	9.1	20.8
2 21	8 0.40	+24 24.6	1.541	2.422	13.4	21.1
3 2	7 56.12	+24 47.0	1.642	2.441	16.8	21.4

460311 2014 QY_{385} 1 24.8 110°.97 1°.5/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 55.57	+23 6.2	1.889	2.720	13.3	21.4
1 2	8 48.57	+23 15.5	1.826	2.733	9.7	21.2
1 12	8 39.26	+23 26.1	1.787	2.746	5.6	21.0
1 22	8 28.55	+23 34.0	1.777	2.758	1.8	20.8
2 1	8 17.61	+23 35.5	1.796	2.770	3.8	20.9
2 11	8 7.72	+23 28.8	1.845	2.782	7.8	21.2
2 21	7 59.83	+23 13.9	1.920	2.794	11.5	21.5
3 2	7 54.59	+22 52.1	2.018	2.805	14.6	21.7

205321 2000 UF_{28} 1 24.8 57°.25 0°.4/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.07	+17 41.3	1.319	2.166	17.1	20.1
1 2	8 47.38	+18 17.1	1.270	2.185	12.4	19.9
1 12	8 38.80	+19 3.2	1.244	2.205	7.2	19.6
1 22	8 28.46	+19 53.3	1.242	2.225	1.6	19.3
2 1	8 17.87	+20 40.2	1.268	2.246	4.1	19.5
2 11	8 8.63	+21 18.4	1.321	2.267	9.3	19.9
2 21	8 1.92	+21 45.2	1.397	2.288	13.8	20.2
3 2	7 58.42	+22 0.1	1.493	2.309	17.5	20.5

120762 1998 AQ_4 1 24.8 135°.78 0°.1/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.43	+19 29.1	2.009	2.834	12.9	19.9
1 2	8 47.66	+19 19.5	1.936	2.840	9.5	19.7
1 12	8 38.72	+19 13.7	1.888	2.846	5.5	19.5
1 22	8 28.44	+19 8.8	1.869	2.851	1.2	19.2
2 1	8 17.88	+19 2.5	1.879	2.857	3.1	19.4
2 11	8 8.20	+18 52.9	1.920	2.862	7.2	19.6
2 21	8 0.32	+18 39.6	1.988	2.867	10.9	19.9
3 2	7 54.90	+18 22.5	2.079	2.871	14.0	20.1

27868 1995 MY_1 1 24.8 175°.34 2°.8/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.97	+ 8 15.3	2.430	3.228	11.8	19.8
1 2	8 42.00	+ 8 28.4	2.347	3.228	9.1	19.6
1 12	8 35.39	+ 8 54.0	2.288	3.229	6.0	19.4
1 22	8 27.70	+ 9 30.3	2.258	3.230	3.3	19.2
2 1	8 19.69	+10 14.6	2.258	3.230	3.4	19.2
2 11	8 12.20	+11 3.3	2.287	3.230	6.1	19.4
2 21	8 5.95	+11 52.6	2.345	3.230	9.2	19.6
3 2	8 1.51	+12 39.3	2.428	3.230	11.9	19.8

503427 2016 EX_{24} 1 24.8 217°.03 3°.1/26.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.55	+ 8 40.4	2.617	3.408	11.3	22.1
1 2	8 43.80	+ 8 24.3	2.523	3.400	8.7	22.0
1 12	8 36.41	+ 8 17.9	2.454	3.391	5.9	21.8
1 22	8 27.94	+ 8 20.7	2.414	3.383	3.5	21.6
2 1	8 19.11	+ 8 31.4	2.405	3.373	3.6	21.6
2 11	8 10.75	+ 8 47.9	2.426	3.364	6.1	21.7
2 21	8 3.57	+ 9 7.7	2.475	3.354	9.0	21.9
3 2	7 58.14	+ 9 28.4	2.550	3.343	11.7	22.1

33000 Chenjiansheng 1 24.9 303°.74 1°.3/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.47	+22 54.8	1.767	2.605	13.8	18.6
1 2	8 47.52	+22 50.5	1.676	2.587	10.2	18.3
1 12	8 38.94	+22 47.6	1.610	2.570	6.0	18.1
1 22	8 28.55	+22 42.3	1.570	2.552	1.7	17.7
2 1	8 17.55	+22 31.0	1.559	2.535	3.9	17.8
2 11	8 7.35	+22 11.9	1.577	2.518	8.5	18.1
2 21	7 59.15	+21 45.0	1.620	2.501	12.8	18.3
3 2	7 53.78	+21 11.5	1.685	2.485	16.4	18.5

318078 2004 GA_{14} 1 24.9 301°.51 20°.8/ 9.5 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.58	+56 12.2	1.089	1.901	22.2	19.9
1 2	9 3.61	+59 29.8	1.052	1.889	21.1	19.7
1 12	8 50.91	+62 15.5	1.033	1.878	20.8	19.7
1 22	8 31.61	+64 5.5	1.031	1.866	21.6	19.7
2 1	8 9.76	+64 43.6	1.045	1.855	23.2	19.7
2 11	7 51.15	+64 10.3	1.074	1.845	25.3	19.8
2 21	7 39.78	+62 39.9	1.114	1.834	27.4	20.0
3 2	7 36.73	+60 29.9	1.163	1.824	29.4	20.1

178958 2001 QG_{188} 1 24.9 166°.26 2°.6/23.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.58	+27 33.2	2.472	3.300	10.7	20.0
1 2	8 46.09	+27 46.5	2.397	3.302	7.8	19.8
1 12	8 37.74	+27 57.7	2.348	3.303	4.8	19.7
1 22	8 28.23	+28 3.3	2.329	3.305	2.6	19.5
2 1	8 18.48	+28 0.1	2.340	3.306	4.0	19.6
2 11	8 9.47	+27 47.1	2.381	3.307	7.0	19.8
2 21	8 1.99	+27 24.5	2.450	3.308	9.9	20.0
3 2	7 56.64	+26 53.9	2.542	3.309	12.4	20.2

144983 2005 EM_{148} 1 24.9 202°.59 1°.3/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.87	+19 54.6	1.638	2.472	14.9	21.4
1 2	8 49.41	+20 38.0	1.559	2.468	11.0	21.1
1 12	8 40.11	+21 29.5	1.504	2.463	6.4	20.8
1 22	8 28.83	+22 22.8	1.476	2.458	1.7	20.5
2 1	8 16.90	+23 11.1	1.477	2.452	4.3	20.7
2 11	8 5.85	+23 49.1	1.507	2.445	9.1	20.9
2 21	7 56.99	+24 14.3	1.562	2.438	13.5	21.2
3 2	7 51.19	+24 26.7	1.639	2.430	17.2	21.4

42279 2001 SP_{267} 1 24.9 227°.78 2°.2/23.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 51.18	+22 42.2	1.911	2.748	12.9	19.1
1 2	8 45.64	+23 30.2	1.833	2.745	9.4	18.8
1 12	8 37.75	+24 22.7	1.782	2.741	5.6	18.6
1 22	8 28.28	+25 13.9	1.757	2.738	2.3	18.4
2 1	8 18.31	+25 58.1	1.763	2.734	4.3	18.5
2 11	8 9.10	+26 31.0	1.797	2.730	8.3	18.7
2 21	8 1.70	+26 50.9	1.856	2.726	12.0	18.9
3 2	7 56.86	+26 57.9	1.938	2.722	15.2	19.2

109688 2001 RP_{33} 1 24.9 36°.04 0°.7/24.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.99	+21 19.1	2.195	3.024	11.8	19.0
1 2	8 45.09	+21 21.9	2.118	3.025	8.6	18.8
1 12	8 37.23	+21 27.4	2.067	3.026	5.0	18.6
1 22	8 28.13	+21 32.4	2.045	3.027	1.2	18.3
2 1	8 18.74	+21 34.2	2.052	3.028	3.1	18.5
2 11	8 10.08	+21 30.9	2.090	3.029	6.8	18.7
2 21	8 3.01	+21 21.6	2.154	3.031	10.3	18.9
3 2	7 58.14	+21 6.7	2.242	3.032	13.2	19.1

249330 2008 UZ_{340} 1 24.9 322°.36 3°.8/21.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.63	+26 23.1	2.109	2.950	11.8	20.2
1 2	8 43.73	+27 51.0	2.034	2.945	8.7	20.0
1 12	8 36.64	+29 21.9	1.985	2.941	5.5	19.8
1 22	8 28.03	+30 48.4	1.966	2.937	3.8	19.7
2 1	8 18.89	+32 3.4	1.976	2.933	5.6	19.8
2 11	8 10.36	+33 1.9	2.015	2.929	8.7	20.0
2 21	8 3.45	+33 42.1	2.079	2.926	11.9	20.1
3 2	7 58.90	+34 4.7	2.165	2.922	14.6	20.3

139499 2001 PU_{35} 1 24.9 30°.66 7°.0/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.38	+ 6 44.3	1.239	2.063	19.4	18.5
1 2	8 46.81	+ 5 26.2	1.192	2.082	15.3	18.3
1 12	8 38.44	+ 4 28.0	1.165	2.102	10.9	18.1
1 22	8 28.40	+ 3 52.2	1.161	2.124	7.5	18.0
2 1	8 18.18	+ 3 38.7	1.183	2.146	7.5	18.1
2 11	8 9.34	+ 3 43.7	1.229	2.169	10.5	18.3
2 21	8 2.98	+ 4 1.8	1.299	2.194	14.3	18.6
3 2	7 59.77	+ 4 26.7	1.388	2.219	17.7	18.9

433339 2013 RB_{43} 1 24.9 12°.78 22°.4/10.2 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 45.71	−23 19.3	1.014	1.719	30.1	20.6
1 2	8 42.93	−25 12.6	0.963	1.720	28.2	20.4
1 12	8 36.75	−26 12.0	0.921	1.722	26.2	20.3
1 22	8 28.13	−26 5.5	0.891	1.725	24.3	20.2
2 1	8 18.70	−24 46.0	0.874	1.730	22.9	20.1
2 11	8 10.44	−22 17.8	0.872	1.735	22.4	20.1
2 21	8 4.97	−18 55.9	0.887	1.741	23.1	20.1
3 2	8 3.33	−15 2.1	0.918	1.749	24.6	20.3

220926 2005 GN_{94} 1 24.9 239°.83 0°.1/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.79	+16 45.7	1.358	2.200	16.9	21.2
1 2	8 48.27	+17 15.5	1.283	2.196	12.6	20.9
1 12	8 39.61	+17 58.0	1.230	2.191	7.4	20.6
1 22	8 28.76	+18 47.8	1.203	2.186	1.7	20.2
2 1	8 17.17	+19 37.9	1.202	2.180	4.2	20.4
2 11	8 6.59	+20 21.6	1.228	2.175	9.8	20.7
2 21	7 58.47	+20 55.1	1.278	2.169	14.8	20.9
3 2	7 53.76	+21 16.8	1.348	2.164	19.0	21.2

832 Karin 1 24.9 98°.55 0°.4/25.1 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.96	+16 43.1	2.068	2.893	12.6	15.8
1 2	8 44.40	+17 0.5	1.997	2.901	9.2	15.6
1 12	8 36.86	+17 25.3	1.952	2.909	5.4	15.4
1 22	8 28.06	+17 54.2	1.935	2.917	1.3	15.1
2 1	8 18.97	+18 23.5	1.947	2.925	2.9	15.3
2 11	8 10.63	+18 49.9	1.989	2.933	6.8	15.5
2 21	8 3.89	+19 10.9	2.058	2.940	10.4	15.8
3 2	7 59.37	+19 25.4	2.150	2.948	13.4	16.0

254094 2004 JE_{43} 1 24.9 325°.61 7°.6/20.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.08	+33 44.5	1.542	2.392	14.8	20.1
1 2	8 47.18	+35 24.9	1.474	2.383	11.5	19.8
1 12	8 39.06	+37 1.9	1.431	2.374	8.6	19.6
1 22	8 28.64	+38 24.0	1.413	2.366	7.7	19.6
2 1	8 17.43	+39 21.3	1.421	2.357	9.6	19.7
2 11	8 7.23	+39 48.9	1.454	2.350	12.8	19.8
2 21	7 59.57	+39 47.8	1.508	2.343	16.2	20.0
3 2	7 55.42	+39 22.7	1.581	2.336	19.2	20.2

140568 2001 TZ_{212} 1 24.9 68°.52 3°.2/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.26	+ 9 10.5	2.301	3.102	12.3	19.6
1 2	8 42.97	+ 8 53.2	2.223	3.106	9.4	19.4
1 12	8 35.96	+ 8 46.6	2.170	3.111	6.3	19.2
1 22	8 27.86	+ 8 50.2	2.145	3.116	3.6	19.1
2 1	8 19.48	+ 9 2.2	2.150	3.120	3.8	19.1
2 11	8 11.72	+ 9 20.2	2.184	3.125	6.5	19.3
2 21	8 5.31	+ 9 41.3	2.245	3.130	9.6	19.5
3 2	8 0.82	+10 2.8	2.331	3.135	12.3	19.7

428438 2007 TY_{274} 1 24.9 72°.94 5°.2/21.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 52.21	+33 26.5	2.190	3.024	11.6	21.1
1 2	8 46.14	+34 21.3	2.133	3.034	8.9	21.0
1 12	8 37.90	+35 10.4	2.102	3.045	6.3	20.8
1 22	8 28.30	+35 47.9	2.099	3.056	5.2	20.8
2 1	8 18.43	+36 9.1	2.124	3.067	6.4	20.9
2 11	8 9.47	+36 12.1	2.178	3.078	9.0	21.0
2 21	8 2.35	+35 58.2	2.256	3.089	11.6	21.2
3 2	7 57.69	+35 30.2	2.356	3.100	13.9	21.4

430695 2003 YX_{117} 1 24.9 315°.04 17°.6/11.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.68	+44 36.8	0.986	1.842	20.7	19.7
1 2	8 55.04	+48 49.8	0.945	1.833	18.4	19.5
1 12	8 45.34	+52 45.7	0.926	1.825	17.6	19.5
1 22	8 30.35	+55 55.9	0.928	1.818	18.6	19.5
2 1	8 12.83	+57 58.8	0.950	1.810	21.1	19.6
2 11	7 57.06	+58 49.5	0.988	1.804	24.0	19.8
2 21	7 46.68	+58 38.6	1.039	1.797	26.9	20.0
3 2	7 43.42	+57 42.2	1.100	1.792	29.3	20.2

352690 2008 SR_{74} 1 24.9 62°.66 1°.9/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.12	+12 28.3	1.293	2.131	17.9	20.5
1 2	8 46.79	+12 56.8	1.238	2.146	13.3	20.3
1 12	8 38.56	+13 42.7	1.204	2.161	8.1	20.0
1 22	8 28.48	+14 40.9	1.195	2.176	2.9	19.8
2 1	8 18.03	+15 44.3	1.212	2.191	4.0	19.9
2 11	8 8.81	+16 45.3	1.256	2.206	9.2	20.2
2 21	8 2.06	+17 38.5	1.324	2.222	13.9	20.5
3 2	7 58.53	+18 20.7	1.413	2.237	17.8	20.8

451717 2013 CZ_{175} 1 24.9 36°.62 2°.6/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.30	+24 16.4	1.328	2.179	16.6	20.9
1 2	8 49.25	+24 32.3	1.268	2.185	12.2	20.6
1 12	8 40.04	+24 49.8	1.230	2.192	7.2	20.4
1 22	8 28.82	+25 2.8	1.218	2.199	2.8	20.1
2 1	8 17.22	+25 5.5	1.232	2.206	5.2	20.3
2 11	8 7.01	+24 55.6	1.273	2.214	10.1	20.6
2 21	7 59.52	+24 33.7	1.337	2.222	14.7	20.9
3 2	7 55.50	+24 2.1	1.421	2.230	18.5	21.2

1561 Fricke 1 24.9 221°.17 1°.6/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.15	+12 28.2	2.736	3.542	10.4	17.0
1 2	8 42.03	+12 35.0	2.645	3.536	7.8	16.8
1 12	8 35.38	+12 50.0	2.581	3.529	4.9	16.6
1 22	8 27.75	+13 11.4	2.545	3.523	2.1	16.4
2 1	8 19.80	+13 37.0	2.540	3.516	2.6	16.4
2 11	8 12.29	+14 4.2	2.566	3.509	5.5	16.6
2 21	8 5.90	+14 30.7	2.620	3.502	8.5	16.8
3 2	8 1.15	+14 54.4	2.700	3.494	11.1	17.0

131434 2001 PX_{40} 1 24.9 137°.88 0°.9/25.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.65	+16 1.6	2.451	3.267	11.1	19.8
1 2	8 43.91	+15 59.5	2.373	3.272	8.2	19.6
1 12	8 36.48	+16 3.3	2.322	3.276	4.9	19.4
1 22	8 27.99	+16 11.0	2.300	3.281	1.5	19.2
2 1	8 19.25	+16 20.4	2.308	3.285	2.6	19.3
2 11	8 11.12	+16 29.3	2.346	3.289	6.0	19.5
2 21	8 4.35	+16 36.0	2.413	3.293	9.2	19.7
3 2	7 59.48	+16 39.4	2.504	3.297	11.9	19.9

468749 2011 BZ_{8} 1 24.9 284°.61 1°.4/24.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.96	+20 38.3	1.885	2.723	13.1	21.2
1 2	8 44.87	+21 20.2	1.796	2.708	9.6	21.0
1 12	8 37.41	+22 8.9	1.732	2.692	5.6	20.7
1 22	8 28.26	+22 59.5	1.695	2.677	1.7	20.4
2 1	8 18.48	+23 46.1	1.687	2.661	3.9	20.5
2 11	8 9.33	+24 24.1	1.707	2.646	8.2	20.7
2 21	8 1.92	+24 50.7	1.754	2.630	12.2	21.0
3 2	7 57.05	+25 5.3	1.822	2.615	15.7	21.1

426929 2013 XF_{9} 1 24.9 102°.92 0°.3/25.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.66	+16 34.3	2.318	3.140	11.5	21.2
1 2	8 43.27	+17 0.6	2.249	3.151	8.4	21.0
1 12	8 36.14	+17 33.9	2.205	3.162	4.9	20.8
1 22	8 27.92	+18 10.9	2.190	3.172	1.2	20.6
2 1	8 19.44	+18 48.0	2.205	3.183	2.6	20.7
2 11	8 11.62	+19 21.8	2.251	3.193	6.2	21.0
2 21	8 5.20	+19 50.0	2.324	3.204	9.5	21.2
3 2	8 0.75	+20 11.3	2.421	3.214	12.2	21.4

367345 2008 EW_{20} 1 24.9 279°.90 2°.7/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.71	+11 3.0	1.778	2.597	14.6	21.4
1 2	8 44.64	+11 5.9	1.691	2.587	11.1	21.2
1 12	8 37.24	+11 22.4	1.628	2.578	7.2	20.9
1 22	8 28.22	+11 50.8	1.592	2.569	3.4	20.7
2 1	8 18.64	+12 27.8	1.583	2.559	3.9	20.7
2 11	8 9.72	+13 8.6	1.603	2.550	7.9	20.9
2 21	8 2.55	+13 49.1	1.649	2.540	12.0	21.1
3 2	7 57.90	+14 25.7	1.717	2.531	15.6	21.3

329014 2010 YM_5 1 24.9 211°.24 2°.0/23.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 51.30	+22 39.5	1.895	2.733	13.0	20.7
1 2	8 45.71	+23 19.5	1.820	2.732	9.5	20.5
1 12	8 37.79	+24 3.5	1.771	2.731	5.6	20.3
1 22	8 28.33	+24 46.1	1.749	2.730	2.1	20.0
2 1	8 18.42	+25 22.0	1.757	2.729	4.2	20.2
2 11	8 9.31	+25 47.2	1.793	2.728	8.2	20.4
2 21	8 2.03	+26 0.5	1.854	2.727	11.9	20.6
3 2	7 57.32	+26 2.0	1.938	2.725	15.1	20.8

429923 2012 TQ_{221} 1 24.9 359°.23 0°.8/24.4 18

12 23	8 48.40	+20 8.9	2.187	3.019	11.7	21.4
1 2	8 43.28	+20 32.8	2.110	3.019	8.5	21.2
1 12	8 36.24	+21 1.4	2.059	3.019	4.9	21.0
1 22	8 27.96	+21 31.0	2.036	3.018	1.2	20.7
2 1	8 19.34	+21 58.0	2.042	3.018	3.1	20.9
2 11	8 11.38	+22 19.2	2.078	3.019	6.9	21.1
2 21	8 4.92	+22 32.9	2.141	3.019	10.3	21.3
3 2	8 0.58	+22 38.6	2.227	3.019	13.2	21.5

220589 2004 KZ_{12} 1 24.9 209°.94 5°.7/28.4 18

12 23	8 48.88	+ 1 17.0	2.127	2.898	14.1	21.0
1 2	8 43.65	+ 1 3.9	2.040	2.894	11.5	20.8
1 12	8 36.49	+ 1 8.9	1.975	2.890	8.6	20.6
1 22	8 28.03	+ 1 32.5	1.936	2.886	6.3	20.4
2 1	8 19.14	+ 2 13.0	1.926	2.881	5.9	20.4
2 11	8 10.80	+ 3 6.7	1.945	2.876	7.9	20.5
2 21	8 3.88	+ 4 8.4	1.990	2.870	10.8	20.7
3 2	7 59.03	+ 5 12.8	2.059	2.865	13.7	20.8

469281 1995 TJ_3 1 24.9 119°.13 0°.2/25.0 18

12 23	8 48.35	+17 5.1	2.661	3.479	10.3	22.2
1 2	8 42.85	+17 26.1	2.591	3.492	7.5	22.0
1 12	8 35.81	+17 52.4	2.548	3.504	4.4	21.8
1 22	8 27.85	+18 21.6	2.534	3.517	1.0	21.6
2 1	8 19.67	+18 50.5	2.552	3.529	2.4	21.7
2 11	8 12.07	+19 16.6	2.599	3.541	5.6	22.0
2 21	8 5.71	+19 38.1	2.676	3.552	8.5	22.2
3 2	8 1.09	+19 53.9	2.777	3.563	11.0	22.4

370470 2003 FH_4 1 24.9 322°.08 6°.5/30.2 17

12 23	8 48.01	− 4 35.0	1.619	2.381	18.2	20.2
1 2	8 43.73	− 3 16.1	1.518	2.366	15.1	19.9
1 12	8 36.91	− 1 17.6	1.437	2.350	11.4	19.6
1 22	8 28.19	+ 1 20.0	1.383	2.336	7.9	19.4
2 1	8 18.63	+ 4 29.5	1.358	2.322	6.6	19.3
2 11	8 9.58	+ 7 57.2	1.363	2.308	9.2	19.4
2 21	8 2.28	+11 26.7	1.398	2.295	13.3	19.6
3 2	7 57.70	+14 43.4	1.459	2.283	17.3	19.8

44227 1998 QP_{14} 1 24.9 314°.82 2°.2/25.4 18

12 23	8 55.22	+16 19.9	1.499	2.332	16.1	17.9
1 2	8 49.03	+15 33.1	1.416	2.321	12.1	17.6
1 12	8 39.94	+14 52.1	1.355	2.311	7.5	17.3
1 22	8 28.85	+14 16.0	1.321	2.301	2.9	17.0
2 1	8 17.14	+13 44.0	1.315	2.291	4.2	17.1
2 11	8 6.41	+13 15.3	1.336	2.282	9.2	17.3
2 21	7 57.95	+12 49.1	1.382	2.273	13.8	17.6
3 2	7 52.66	+12 24.7	1.449	2.265	17.8	17.8

467194 2016 EZ_{126} 1 24.9 20°.66 5°.4/22.9 18

12 23	8 53.62	+30 26.7	1.308	2.166	16.4	20.5
1 2	8 48.11	+30 58.7	1.257	2.175	12.3	20.3
1 12	8 39.39	+31 25.4	1.228	2.184	8.0	20.1
1 22	8 28.69	+31 38.8	1.224	2.195	5.4	20.0
2 1	8 17.72	+31 33.1	1.245	2.207	7.3	20.1
2 11	8 8.29	+31 7.1	1.291	2.220	11.2	20.4
2 21	8 1.69	+30 23.9	1.359	2.234	15.2	20.7
3 2	7 58.59	+29 28.1	1.448	2.249	18.6	20.9

412870 2014 QL_3 1 24.9 170°.40 1°.6/25.7 18

12 23	8 52.78	+13 20.0	2.094	2.905	13.0	22.4
1 2	8 46.47	+13 29.6	2.015	2.909	9.7	22.2
1 12	8 38.10	+13 48.9	1.961	2.912	6.0	22.0
1 22	8 28.40	+14 15.4	1.936	2.915	2.3	21.7
2 1	8 18.32	+14 45.9	1.941	2.918	3.1	21.8
2 11	8 8.95	+15 16.7	1.976	2.919	6.9	22.0
2 21	8 1.19	+15 44.9	2.038	2.920	10.5	22.2
3 2	7 55.70	+16 8.5	2.125	2.920	13.6	22.4

250221 2002 VS_{102} 1 24.9 103°.91 0°.4/25.1 18

12 23	8 54.01	+16 41.1	1.975	2.795	13.3	21.3
1 2	8 47.28	+17 0.9	1.917	2.819	9.7	21.1
1 12	8 38.48	+17 27.9	1.885	2.842	5.7	20.9
1 22	8 28.46	+17 58.4	1.882	2.864	1.4	20.6
2 1	8 18.26	+18 28.4	1.909	2.886	3.0	20.8
2 11	8 9.01	+18 54.5	1.965	2.908	7.0	21.1
2 21	8 1.57	+19 14.7	2.049	2.928	10.6	21.4
3 2	7 56.53	+19 28.1	2.157	2.948	13.6	21.6

297015 2010 FU_{91} 1 24.9 221°.63 2°.6/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 46.44	+ 8 34.9	2.702	3.496	10.8	21.7
1 2	8 41.54	+ 8 44.8	2.610	3.490	8.3	21.5
1 12	8 35.13	+ 9 5.6	2.544	3.484	5.6	21.3
1 22	8 27.73	+ 9 36.0	2.506	3.478	3.1	21.1
2 1	8 20.00	+10 13.7	2.499	3.471	3.1	21.1
2 11	8 12.69	+10 55.6	2.522	3.464	5.7	21.3
2 21	8 6.48	+11 38.6	2.574	3.457	8.5	21.4
3 2	8 1.89	+12 19.8	2.651	3.450	11.1	21.6

170293 2003 RM_{20} 1 24.9 187°.27 0°.4/25.1 18

12 23	8 52.88	+16 6.9	2.083	2.901	12.7	21.5
1 2	8 46.65	+16 35.7	2.001	2.901	9.4	21.2
1 12	8 38.27	+17 13.1	1.944	2.900	5.6	21.0
1 22	8 28.47	+17 55.4	1.916	2.899	1.4	20.7
2 1	8 18.21	+18 38.2	1.919	2.896	3.0	20.8
2 11	8 8.63	+19 17.4	1.951	2.893	7.1	21.1
2 21	8 0.68	+19 50.1	2.011	2.889	10.8	21.3
3 2	7 55.05	+20 14.8	2.095	2.884	14.0	21.5

109149 2001 QR_{58} 1 24.9 62°.38 9°.0/20.4 18

12 23	8 58.50	+40 52.7	1.706	2.535	14.6	18.5
1 2	8 51.51	+42 6.0	1.658	2.544	11.9	18.3
1 12	8 41.33	+43 5.5	1.633	2.554	9.7	18.2
1 22	8 29.15	+43 41.8	1.633	2.564	9.0	18.2
2 1	8 16.66	+43 48.5	1.660	2.573	10.2	18.3
2 11	8 5.64	+43 25.3	1.711	2.583	12.6	18.5
2 21	7 57.43	+42 36.9	1.784	2.593	15.2	18.7
3 2	7 52.74	+41 29.9	1.877	2.603	17.6	18.9

259208 2003 AP_{62} 1 24.9 304°.93 0°.3/24.7 18

12 23	8 49.17	+17 19.8	1.643	2.483	14.6	20.1
1 2	8 44.56	+17 59.4	1.556	2.468	10.8	19.8
1 12	8 37.35	+18 50.4	1.494	2.454	6.3	19.5
1 22	8 28.30	+19 47.8	1.457	2.440	1.4	19.1
2 1	8 18.56	+20 45.3	1.449	2.427	3.7	19.3
2 11	8 9.50	+21 36.8	1.469	2.413	8.7	19.5
2 21	8 2.36	+22 18.2	1.513	2.400	13.1	19.8
3 2	7 58.02	+22 47.5	1.578	2.388	16.9	20.0

455219 2001 QZ_{225} 1 24.9 58°.95 5°.1/27.6 17

12 23	8 52.53	+ 5 27.3	1.563	2.366	17.0	20.7
1 2	8 46.42	+ 5 14.7	1.518	2.398	13.2	20.6
1 12	8 38.05	+ 5 21.8	1.496	2.431	9.2	20.4
1 22	8 28.38	+ 5 47.2	1.498	2.463	5.8	20.3
2 1	8 18.61	+ 6 27.2	1.528	2.496	5.5	20.4
2 11	8 10.01	+ 7 16.2	1.586	2.528	8.4	20.6
2 21	8 3.48	+ 8 8.3	1.669	2.560	11.9	20.9
3 2	7 59.60	+ 8 58.6	1.775	2.592	15.0	21.1

118517 2000 DM_{106} 1 24.9 273°.59 1°.0/24.4 18

12 23	8 51.85	+18 0.9	1.432	2.276	16.1	19.9
1 2	8 46.82	+18 55.5	1.354	2.268	11.8	19.7
1 12	8 38.81	+20 3.0	1.299	2.261	6.9	19.4
1 22	8 28.65	+21 16.5	1.270	2.253	1.7	19.0
2 1	8 17.73	+22 27.6	1.269	2.245	4.4	19.2
2 11	8 7.69	+23 28.6	1.294	2.238	9.8	19.4
2 21	7 59.94	+24 15.1	1.344	2.230	14.6	19.7
3 2	7 55.44	+24 45.8	1.414	2.222	18.6	19.9

21697 Mascharak 1 24.9 122°.08 3°.1/26.6 18

12 23	8 51.85	+ 8 56.9	1.810	2.617	14.8	19.4
1 2	8 45.97	+ 9 9.8	1.741	2.629	11.3	19.2
1 12	8 37.88	+ 9 38.2	1.697	2.641	7.4	19.0
1 22	8 28.38	+10 19.6	1.679	2.653	3.8	18.8
2 1	8 18.54	+11 9.9	1.690	2.664	4.0	18.8
2 11	8 9.54	+12 4.0	1.730	2.675	7.6	19.1
2 21	8 2.35	+12 57.0	1.797	2.685	11.3	19.3
3 2	7 57.62	+13 45.1	1.887	2.695	14.6	19.6

61843 2000 QT_{200} 1 24.9 94°.38 0°.1/24.9 18

12 23	8 50.50	+16 58.4	1.891	2.720	13.4	20.1
1 2	8 44.99	+17 30.7	1.823	2.729	9.8	19.9
1 12	8 37.31	+18 11.4	1.780	2.739	5.7	19.7
1 22	8 28.25	+18 56.4	1.765	2.748	1.3	19.4
2 1	8 18.85	+19 40.7	1.779	2.757	3.2	19.6
2 11	8 10.27	+20 20.0	1.822	2.766	7.4	19.8
2 21	8 3.44	+20 51.4	1.892	2.775	11.2	20.1
3 2	7 59.02	+21 13.7	1.984	2.783	14.3	20.3

145158 2005 HU_3 1 24.9 277°.52 2°.2/26.1 18

12 23	8 49.75	+11 24.4	1.662	2.486	15.2	20.3
1 2	8 44.83	+11 47.0	1.579	2.479	11.5	20.1
1 12	8 37.43	+12 25.3	1.520	2.472	7.3	19.8
1 22	8 28.32	+13 16.4	1.486	2.465	3.0	19.5
2 1	8 18.60	+14 15.2	1.481	2.459	3.7	19.6
2 11	8 9.61	+15 15.7	1.504	2.452	8.2	19.8
2 21	8 2.47	+16 12.5	1.552	2.445	12.5	20.0
3 2	7 58.02	+17 1.7	1.623	2.438	16.3	20.3

459519 2013 EP_{85} 1 24.9 268°.02 2°.7/23.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 52.49	+22 51.1	1.607	2.451	14.6	21.2
1 2	8 47.13	+23 48.7	1.526	2.440	10.7	20.9
1 12	8 38.92	+24 52.8	1.469	2.429	6.4	20.7
1 22	8 28.68	+25 56.3	1.438	2.418	2.8	20.4
2 1	8 17.69	+26 51.1	1.436	2.407	5.2	20.5
2 11	8 7.53	+27 31.6	1.461	2.395	9.8	20.8
2 21	7 59.51	+27 55.3	1.511	2.384	14.1	21.0
3 2	7 54.56	+28 3.0	1.581	2.372	17.7	21.2

144652 2004 FF_{106} 1 24.9 227°.82 4°.8/28.3 17

12 23	8 46.02	+ 1 43.3	2.649	3.414	11.8	20.5
1 2	8 41.25	+ 1 33.4	2.558	3.410	9.5	20.3
1 12	8 34.98	+ 1 38.0	2.491	3.405	7.2	20.2
1 22	8 27.71	+ 1 57.1	2.451	3.399	5.2	20.0
2 1	8 20.13	+ 2 29.4	2.440	3.394	4.9	20.0
2 11	8 12.96	+ 3 12.1	2.459	3.389	6.6	20.1
2 21	8 6.89	+ 4 1.6	2.505	3.383	9.0	20.2
3 2	8 2.45	+ 4 53.8	2.577	3.377	11.4	20.4

465731 2009 VH_{15} 1 24.9 217°.90 2°.2/23.7 18

12 23	8 51.62	+23 50.2	1.979	2.815	12.6	21.6
1 2	8 45.87	+24 22.8	1.904	2.814	9.2	21.4
1 12	8 37.87	+24 57.8	1.854	2.813	5.4	21.1
1 22	8 28.39	+25 30.2	1.832	2.812	2.3	20.9
2 1	8 18.50	+25 55.1	1.839	2.810	4.2	21.0
2 11	8 9.40	+26 9.5	1.875	2.809	8.0	21.3
2 21	8 2.08	+26 12.4	1.937	2.807	11.6	21.5
3 2	7 57.25	+26 4.7	2.022	2.806	14.6	21.7

303930 2005 UZ_{503} 1 24.9 285°.95 1°.5/24.2 18

12 23	8 52.93	+20 58.7	1.494	2.339	15.5	20.8
1 2	8 47.56	+21 27.9	1.412	2.327	11.4	20.5
1 12	8 39.21	+22 4.1	1.353	2.314	6.7	20.2
1 22	8 28.75	+22 41.6	1.320	2.302	1.9	19.8
2 1	8 17.54	+23 13.9	1.315	2.290	4.5	20.0
2 11	8 7.22	+23 36.1	1.336	2.278	9.6	20.2
2 21	7 59.18	+23 46.1	1.381	2.266	14.3	20.5
3 2	7 54.37	+23 44.1	1.447	2.254	18.3	20.7

167128 2003 SK_{148} 1 24.9 76°.69 1°.9/23.8 18

12 23	8 54.09	+19 45.4	1.537	2.377	15.4	19.8
1 2	8 47.90	+21 1.9	1.490	2.403	11.1	19.6
1 12	8 39.08	+22 25.9	1.468	2.429	6.4	19.3
1 22	8 28.65	+23 49.1	1.473	2.454	2.1	19.1
2 1	8 17.98	+25 3.0	1.507	2.480	4.6	19.4
2 11	8 8.50	+26 2.0	1.569	2.505	9.0	19.7
2 21	8 1.32	+26 43.8	1.656	2.530	13.0	20.0
3 2	7 57.10	+27 9.0	1.764	2.554	16.2	20.2

322357 2011 KE_{4} 1 24.9 218°.48 4°.6/20.5 18

12 23	8 51.33	+32 32.0	2.823	3.648	9.6	20.4
1 2	8 45.41	+34 0.6	2.742	3.639	7.3	20.2
1 12	8 37.56	+35 27.4	2.690	3.630	5.3	20.1
1 22	8 28.35	+36 46.1	2.668	3.620	4.6	20.0
2 1	8 18.59	+37 51.3	2.677	3.610	5.9	20.1
2 11	8 9.26	+38 39.5	2.716	3.599	8.1	20.2
2 21	8 1.22	+39 10.0	2.781	3.587	10.4	20.4
3 2	7 55.17	+39 24.2	2.868	3.576	12.4	20.5

235279 2003 UL_{17} 1 24.9 8°.93 3°.3/25.9 18

12 23	8 49.45	+13 14.0	1.438	2.276	16.4	18.8
1 2	8 44.67	+12 28.1	1.373	2.279	12.4	18.5
1 12	8 37.30	+11 53.0	1.330	2.283	8.0	18.3
1 22	8 28.28	+11 28.6	1.312	2.289	3.9	18.0
2 1	8 18.90	+11 13.7	1.320	2.295	4.6	18.1
2 11	8 10.56	+11 6.1	1.355	2.303	8.8	18.4
2 21	8 4.39	+11 3.1	1.413	2.313	13.0	18.6
3 2	8 1.08	+11 1.8	1.493	2.323	16.7	18.9

54635 2000 SE_{132} 1 24.9 267°.64 0°.1/24.9 18

12 23	8 51.49	+19 29.7	2.472	3.292	10.9	18.8
1 2	8 45.37	+19 16.7	2.379	3.281	8.0	18.6
1 12	8 37.43	+19 6.4	2.313	3.270	4.7	18.4
1 22	8 28.30	+18 56.8	2.276	3.258	1.1	18.1
2 1	8 18.82	+18 46.1	2.270	3.247	2.6	18.2
2 11	8 9.91	+18 32.8	2.294	3.236	6.2	18.4
2 21	8 2.38	+18 16.4	2.347	3.224	9.5	18.6
3 2	7 56.84	+17 56.9	2.425	3.212	12.4	18.8

189416 1995 WU_{14} 1 24.9 169°.25 3°.3/26.8 18

12 23	8 49.25	+ 8 45.2	2.028	2.833	13.6	20.7
1 2	8 43.97	+ 8 40.9	1.948	2.834	10.4	20.5
1 12	8 36.71	+ 8 49.9	1.892	2.834	7.0	20.3
1 22	8 28.15	+ 9 11.1	1.863	2.835	3.9	20.1
2 1	8 19.20	+ 9 42.0	1.863	2.835	4.0	20.1
2 11	8 10.90	+10 18.7	1.892	2.836	7.2	20.3
2 21	8 4.13	+10 57.4	1.948	2.836	10.6	20.5
3 2	7 59.55	+11 34.5	2.027	2.836	13.7	20.7

5942 Denzilrobert 1 24.9 93°.25 3°.6/22.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 50.67	+27 44.9	2.228	3.063	11.4	16.6
1 2	8 44.97	+28 49.2	2.168	3.076	8.4	16.4
1 12	8 37.26	+29 52.8	2.135	3.089	5.3	16.2
1 22	8 28.26	+30 49.9	2.130	3.101	3.6	16.1
2 1	8 18.95	+31 35.1	2.156	3.113	5.1	16.3
2 11	8 10.42	+32 5.4	2.210	3.126	8.0	16.5
2 21	8 3.52	+32 20.3	2.290	3.138	10.9	16.7
3 2	7 58.90	+32 21.3	2.393	3.150	13.4	16.9

277549 2005 YX_{103} 1 24.9 166°.89 0°.2/24.8 18

12 23	8 50.28	+18 0.6	2.083	2.911	12.4	21.7
1 2	8 44.74	+18 28.7	2.007	2.912	9.1	21.4
1 12	8 37.17	+19 3.7	1.955	2.914	5.3	21.2
1 22	8 28.25	+19 41.8	1.932	2.915	1.2	20.9
2 1	8 18.96	+20 18.8	1.939	2.916	3.0	21.1
2 11	8 10.36	+20 50.8	1.975	2.917	7.0	21.3
2 21	8 3.35	+21 15.6	2.038	2.918	10.6	21.5
3 2	7 58.59	+21 32.2	2.125	2.918	13.7	21.7

177377 2004 BR_{57} 1 24.9 165°.17 2°.4/26.1 18

12 23	8 51.84	+12 4.3	1.822	2.639	14.4	20.2
1 2	8 46.06	+12 0.3	1.745	2.641	10.9	20.0
1 12	8 38.00	+12 7.9	1.692	2.642	6.9	19.8
1 22	8 28.45	+12 25.4	1.666	2.644	3.1	19.5
2 1	8 18.48	+12 49.6	1.669	2.645	3.7	19.6
2 11	8 9.30	+13 16.7	1.701	2.646	7.6	19.8
2 21	8 1.91	+13 43.5	1.758	2.647	11.5	20.0
3 2	7 57.02	+14 7.1	1.839	2.647	14.9	20.3

338187 2002 RK_{200} 1 24.9 107°.01 3°.0/26.2 18

12 23	8 56.42	+10 49.5	1.539	2.354	16.6	21.8
1 2	8 49.48	+10 48.7	1.482	2.376	12.6	21.6
1 12	8 39.97	+11 2.8	1.448	2.396	8.0	21.4
1 22	8 28.88	+11 29.1	1.440	2.416	3.7	21.2
2 1	8 17.54	+12 3.5	1.460	2.436	4.2	21.2
2 11	8 7.38	+12 41.0	1.509	2.454	8.4	21.5
2 21	7 59.48	+13 17.1	1.584	2.472	12.6	21.8
3 2	7 54.52	+13 48.9	1.680	2.490	16.1	22.1

28192 1998 WE_{24} 1 24.9 23°.87 3°.1/26.1 18

12 23	8 51.09	+12 40.4	1.733	2.556	14.7	17.0
1 2	8 45.46	+11 59.2	1.666	2.564	11.2	16.7
1 12	8 37.60	+11 27.6	1.623	2.573	7.2	16.5
1 22	8 28.34	+11 5.5	1.606	2.582	3.6	16.3
2 1	8 18.82	+10 51.6	1.618	2.592	4.1	16.4
2 11	8 10.22	+10 44.1	1.658	2.603	7.8	16.6
2 21	8 3.50	+10 40.7	1.723	2.614	11.6	16.9
3 2	7 59.30	+10 39.0	1.811	2.626	14.9	17.1

5532 Ichinohe 1 24.9 306°.28 0°.1/24.9 18

12 23	8 47.83	+17 40.9	2.126	2.956	12.1	17.3
1 2	8 43.02	+18 2.8	2.037	2.944	8.9	17.1
1 12	8 36.22	+18 31.9	1.973	2.932	5.2	16.8
1 22	8 28.06	+19 5.0	1.937	2.919	1.2	16.5
2 1	8 19.42	+19 38.2	1.930	2.908	2.9	16.6
2 11	8 11.35	+20 7.8	1.952	2.896	7.0	16.9
2 21	8 4.75	+20 31.4	2.001	2.884	10.6	17.1
3 2	8 0.31	+20 47.5	2.073	2.873	13.8	17.3

406132 2006 VM_{98} 1 24.9 66°.52 8°.3/19.9 17

12 23	8 55.36	+36 44.1	1.646	2.486	14.5	20.7
1 2	8 49.33	+38 30.3	1.599	2.497	11.5	20.5
1 12	8 40.18	+40 7.5	1.576	2.508	9.0	20.4
1 22	8 28.97	+41 24.7	1.579	2.520	8.3	20.4
2 1	8 17.27	+42 13.7	1.609	2.531	9.9	20.5
2 11	8 6.82	+42 32.0	1.664	2.542	12.5	20.7
2 21	7 58.98	+42 22.3	1.741	2.554	15.3	20.9
3 2	7 54.56	+41 50.5	1.836	2.565	17.8	21.1

128009 2003 JP_{6} 1 24.9 269°.18 5°.9/20.9 18

12 23	8 52.47	+32 16.7	1.916	2.756	12.8	19.9
1 2	8 46.90	+33 41.0	1.845	2.750	9.8	19.7
1 12	8 38.68	+35 2.8	1.799	2.744	7.0	19.5
1 22	8 28.64	+36 13.5	1.780	2.737	5.9	19.4
2 1	8 17.98	+37 5.4	1.790	2.731	7.5	19.5
2 11	8 8.13	+37 34.8	1.826	2.725	10.5	19.7
2 21	8 0.29	+37 41.8	1.887	2.718	13.6	19.8
3 2	7 55.31	+37 29.3	1.968	2.712	16.3	20.0

51121 2000 HC_{34} 1 24.9 318°.79 7°.9/29.1 18

12 23	8 47.47	− 1 1.8	1.608	2.390	17.5	18.9
1 2	8 43.21	− 1 26.3	1.524	2.381	14.5	18.7
1 12	8 36.54	− 1 25.7	1.460	2.372	11.3	18.5
1 22	8 28.16	− 0 58.0	1.419	2.364	8.7	18.3
2 1	8 19.17	− 0 4.4	1.404	2.356	8.1	18.3
2 11	8 10.84	+ 1 9.8	1.415	2.348	10.1	18.4
2 21	8 4.30	+ 2 36.9	1.450	2.341	13.4	18.5
3 2	8 0.40	+ 4 8.3	1.507	2.334	16.8	18.7

138613 2000 QV_{196} 1 24.9 135°.04 2°.3/23.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 51.85	+26 54.5	2.581	3.408	10.3	20.0
1 2	8 45.52	+27 9.8	2.510	3.414	7.5	19.8
1 12	8 37.45	+27 23.5	2.465	3.420	4.6	19.6
1 22	8 28.30	+27 32.3	2.450	3.426	2.4	19.5
2 1	8 18.95	+27 33.4	2.465	3.432	3.7	19.6
2 11	8 10.30	+27 25.3	2.511	3.437	6.6	19.8
2 21	8 3.10	+27 8.2	2.584	3.442	9.4	20.0
3 2	7 57.91	+26 43.4	2.681	3.447	11.9	20.1

372620 2009 VK_{40} 1 24.9 56°.56 3°.1/23.1 18

12 23	8 51.28	+25 28.5	1.860	2.701	13.0	20.7
1 2	8 45.76	+26 19.0	1.793	2.706	9.6	20.5
1 12	8 37.86	+27 11.0	1.752	2.710	5.8	20.2
1 22	8 28.43	+27 58.4	1.738	2.715	3.2	20.1
2 1	8 18.61	+28 35.2	1.753	2.720	5.0	20.2
2 11	8 9.67	+28 58.0	1.796	2.725	8.7	20.4
2 21	8 2.64	+29 6.1	1.865	2.730	12.2	20.7
3 2	7 58.24	+29 0.7	1.955	2.735	15.2	20.9

331943 2004 TP_{166} 1 24.9 357°.08 1°.9/25.9 18

12 23	8 49.26	+12 42.2	1.909	2.729	13.7	21.3
1 2	8 44.13	+12 52.2	1.831	2.729	10.3	21.1
1 12	8 36.87	+13 13.8	1.777	2.729	6.4	20.8
1 22	8 28.21	+13 44.4	1.750	2.729	2.6	20.6
2 1	8 19.14	+14 20.4	1.752	2.729	3.3	20.6
2 11	8 10.77	+14 57.7	1.782	2.729	7.3	20.9
2 21	8 4.05	+15 32.7	1.840	2.729	11.1	21.1
3 2	7 59.66	+16 2.6	1.920	2.729	14.4	21.3

32982 1996 VD_{38} 1 24.9 80°.36 3°.2/23.1 18

12 23	8 52.29	+25 51.5	1.831	2.672	13.3	19.2
1 2	8 46.53	+26 38.6	1.764	2.676	9.7	19.0
1 12	8 38.33	+27 26.7	1.722	2.680	5.9	18.8
1 22	8 28.55	+28 9.6	1.707	2.683	3.3	18.6
2 1	8 18.37	+28 41.5	1.721	2.687	5.1	18.8
2 11	8 9.10	+28 59.1	1.763	2.691	8.8	19.0
2 21	8 1.82	+29 1.9	1.831	2.695	12.4	19.2
3 2	7 57.23	+28 51.6	1.920	2.699	15.4	19.4

143499 2003 DQ_{12} 1 24.9 358°.49 2°.5/26.6 18

12 23	8 46.34	+ 9 28.4	2.389	3.192	11.8	19.9
1 2	8 41.63	+ 9 40.0	2.306	3.192	9.0	19.7
1 12	8 35.27	+10 3.2	2.248	3.192	5.9	19.5
1 22	8 27.84	+10 36.3	2.218	3.192	3.0	19.4
2 1	8 20.08	+11 16.8	2.218	3.192	3.2	19.4
2 11	8 12.85	+12 0.8	2.248	3.192	6.1	19.6
2 21	8 6.86	+12 45.0	2.305	3.192	9.2	19.7
3 2	8 2.69	+13 26.3	2.387	3.192	12.0	19.9

23852 Laurierumker 1 24.9 150°.03 0°.7/24.5 18

12 23	8 50.32	+19 52.2	2.174	3.003	11.9	19.0
1 2	8 44.70	+20 16.3	2.099	3.005	8.7	18.8
1 12	8 37.11	+20 45.4	2.049	3.008	5.0	18.6
1 22	8 28.26	+21 15.5	2.028	3.010	1.2	18.3
2 1	8 19.08	+21 43.0	2.037	3.013	3.1	18.5
2 11	8 10.58	+22 4.5	2.075	3.015	6.9	18.7
2 21	8 3.64	+22 18.6	2.140	3.017	10.3	18.9
3 2	7 58.88	+22 24.7	2.229	3.019	13.3	19.1

458888 2011 UQ_{175} 1 24.9 124°.26 2°.4/26.0 18

12 23	8 54.14	+12 22.1	1.746	2.562	14.9	21.3
1 2	8 47.71	+12 16.4	1.678	2.573	11.2	21.1
1 12	8 38.94	+12 22.4	1.634	2.585	7.1	20.8
1 22	8 28.68	+12 37.9	1.618	2.595	3.1	20.6
2 1	8 18.10	+12 59.7	1.630	2.606	3.7	20.7
2 11	8 8.46	+13 24.1	1.671	2.616	7.8	21.0
2 21	8 0.77	+13 47.7	1.738	2.625	11.7	21.2
3 2	7 55.72	+14 8.0	1.828	2.634	15.1	21.5

412627 2014 OS_{130} 1 24.9 145°.43 1°.0/24.3 18

12 23	8 53.96	+20 10.9	2.025	2.852	12.8	22.2
1 2	8 47.43	+20 45.0	1.957	2.862	9.3	22.0
1 12	8 38.72	+21 24.1	1.913	2.872	5.4	21.7
1 22	8 28.63	+22 3.6	1.899	2.881	1.4	21.5
2 1	8 18.21	+22 38.8	1.915	2.890	3.4	21.6
2 11	8 8.63	+23 6.1	1.960	2.898	7.4	21.9
2 21	8 0.82	+23 23.9	2.033	2.905	11.0	22.1
3 2	7 55.44	+23 32.1	2.129	2.912	14.0	22.4

334178 2001 SO_{135} 1 24.9 103°.47 0°.9/24.3 18

12 23	8 50.02	+21 7.9	2.522	3.346	10.6	21.3
1 2	8 44.15	+21 32.8	2.459	3.364	7.7	21.1
1 12	8 36.64	+22 0.6	2.422	3.381	4.4	21.0
1 22	8 28.14	+22 27.9	2.415	3.397	1.2	20.7
2 1	8 19.45	+22 51.5	2.439	3.414	2.9	20.9
2 11	8 11.44	+23 8.9	2.493	3.430	6.1	21.1
2 21	8 4.82	+23 19.2	2.575	3.446	9.0	21.3
3 2	8 0.09	+23 22.2	2.682	3.461	11.5	21.5

276683 2003 YQ_{34} 1 24.9 83°.37 4°.2/22.0 18

	h m	° ′			°	m
12 23	8 52.79	+29 27.8	2.198	3.032	11.6	20.2
1 2	8 46.47	+30 38.0	2.152	3.057	8.6	20.1
1 12	8 38.10	+31 45.3	2.133	3.083	5.7	19.9
1 22	8 28.47	+32 43.5	2.142	3.108	4.2	19.9
2 1	8 18.65	+33 27.3	2.181	3.133	5.6	20.0
2 11	8 9.72	+33 54.2	2.249	3.157	8.3	20.2
2 21	8 2.57	+34 4.6	2.343	3.181	11.0	20.4
3 2	7 57.77	+34 0.6	2.459	3.205	13.3	20.7

236674 2006 QA_5 1 24.9 170°.51 0°.3/24.7 17

12 23	8 48.48	+18 50.4	2.832	3.650	9.7	21.6
1 2	8 42.97	+19 12.5	2.752	3.653	7.1	21.4
1 12	8 35.96	+19 38.9	2.699	3.656	4.1	21.2
1 22	8 28.00	+20 6.9	2.675	3.658	0.9	21.0
2 1	8 19.77	+20 33.4	2.684	3.660	2.4	21.1
2 11	8 12.05	+20 56.2	2.723	3.661	5.5	21.3
2 21	8 5.48	+21 13.7	2.790	3.663	8.3	21.5
3 2	8 0.57	+21 25.1	2.882	3.663	10.8	21.7

11234 1999 JS_{82} 1 24.9 72°.62 1°.4/23.9 18

12 23	8 49.87	+18 54.6	1.795	2.632	13.6	16.9
1 2	8 44.78	+20 6.0	1.726	2.637	9.9	16.6
1 12	8 37.35	+21 26.8	1.682	2.642	5.7	16.4
1 22	8 28.35	+22 50.2	1.665	2.648	1.7	16.1
2 1	8 18.88	+24 8.8	1.679	2.653	4.0	16.3
2 11	8 10.18	+25 16.4	1.720	2.658	8.3	16.6
2 21	8 3.32	+26 9.4	1.788	2.663	12.1	16.8
3 2	7 59.02	+26 47.0	1.878	2.668	15.3	17.0

399295 2014 HX_{155} 1 24.9 212°.04 0°.1/24.9 18

12 23	8 54.48	+17 16.2	1.680	2.510	14.8	22.4
1 2	8 48.35	+17 43.6	1.599	2.505	10.9	22.1
1 12	8 39.54	+18 20.7	1.541	2.499	6.4	21.8
1 22	8 28.88	+19 2.8	1.510	2.493	1.5	21.5
2 1	8 17.59	+19 44.4	1.508	2.486	3.6	21.6
2 11	8 7.11	+20 20.5	1.535	2.478	8.5	21.9
2 21	7 58.67	+20 48.0	1.587	2.470	12.9	22.1
3 2	7 53.13	+21 5.9	1.662	2.461	16.6	22.3

164221 2004 QE_{20} 1 24.9 119°.04 4°.8/25.9 18

12 23	9 11.99	+11 44.1	0.788	1.630	25.9	21.8
1 2	9 2.46	+11 3.1	0.746	1.654	19.7	21.5
1 12	8 48.11	+10 43.7	0.722	1.676	12.5	21.3
1 22	8 30.80	+10 43.8	0.719	1.697	5.8	21.0
2 1	8 13.31	+10 58.7	0.740	1.716	6.8	21.1
2 11	7 58.55	+11 21.7	0.784	1.734	13.2	21.5
2 21	7 48.34	+11 46.7	0.849	1.750	19.3	21.9
3 2	7 43.34	+12 9.3	0.930	1.764	24.1	22.3

332152 2005 YG_{77} 1 24.9 4°.57 2°.1/23.7 18

12 23	8 50.20	+22 24.8	1.791	2.633	13.4	20.6
1 2	8 45.06	+23 10.8	1.719	2.633	9.8	20.4
1 12	8 37.53	+24 1.6	1.672	2.633	5.8	20.2
1 22	8 28.41	+24 51.4	1.653	2.633	2.3	19.9
2 1	8 18.83	+25 34.2	1.662	2.634	4.4	20.1
2 11	8 10.07	+26 5.7	1.698	2.635	8.5	20.3
2 21	8 3.21	+26 24.2	1.761	2.636	12.3	20.6
3 2	7 58.98	+26 29.9	1.845	2.637	15.5	20.8

367585 2009 SP_{251} 1 24.9 81°.73 1°.9/25.9 18

12 23	8 51.19	+12 46.3	1.913	2.731	13.8	21.4
1 2	8 45.35	+12 50.9	1.852	2.748	10.3	21.2
1 12	8 37.48	+13 6.3	1.814	2.766	6.4	21.0
1 22	8 28.36	+13 29.8	1.805	2.783	2.6	20.8
2 1	8 19.02	+13 58.2	1.824	2.801	3.3	20.9
2 11	8 10.54	+14 27.7	1.873	2.818	7.0	21.1
2 21	8 3.79	+14 55.1	1.948	2.835	10.6	21.4
3 2	7 59.37	+15 18.3	2.046	2.852	13.7	21.6

378847 2008 TS_{18} 1 24.9 108°.49 0°.4/25.1 18

12 23	8 49.91	+16 42.5	2.270	3.091	11.7	21.8
1 2	8 44.25	+17 1.6	2.201	3.103	8.6	21.7
1 12	8 36.79	+17 27.4	2.158	3.115	5.0	21.5
1 22	8 28.22	+17 56.8	2.144	3.127	1.3	21.2
2 1	8 19.40	+18 26.4	2.161	3.138	2.7	21.3
2 11	8 11.27	+18 53.0	2.207	3.150	6.3	21.6
2 21	8 4.61	+19 14.6	2.281	3.161	9.6	21.8
3 2	7 59.98	+19 30.0	2.378	3.172	12.4	22.0

206608 2003 WN_{76} 1 24.9 176°.43 1°.5/24.1 18

12 23	8 55.15	+22 35.1	2.186	3.010	12.0	20.4
1 2	8 48.24	+23 0.2	2.109	3.013	8.8	20.2
1 12	8 39.21	+23 27.6	2.058	3.016	5.1	20.0
1 22	8 28.79	+23 53.2	2.036	3.017	1.7	19.8
2 1	8 18.00	+24 12.8	2.045	3.018	3.6	19.9
2 11	8 7.98	+24 23.8	2.084	3.018	7.3	20.1
2 21	7 59.66	+24 25.4	2.150	3.017	10.7	20.3
3 2	7 53.71	+24 18.3	2.241	3.015	13.7	20.5

245936 2006 RG_{64} 1 24.9 164.°32 3.°9/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 46.21	+ 3 3.9	2.770	3.540	11.2	21.4
1 2	8 41.33	+ 3 15.8	2.685	3.543	8.9	21.2
1 12	8 35.04	+ 3 41.6	2.625	3.546	6.5	21.0
1 22	8 27.83	+ 4 20.5	2.592	3.549	4.4	20.9
2 1	8 20.34	+ 5 10.4	2.590	3.552	4.1	20.9
2 11	8 13.30	+ 6 7.7	2.618	3.554	5.9	21.0
2 21	8 7.31	+ 7 8.6	2.675	3.556	8.4	21.2
3 2	8 2.88	+ 8 9.4	2.758	3.557	10.7	21.3

449158 2013 AH_{123} 1 24.9 27.°08 1.°9/25.7 18

12 23	8 51.16	+14 6.5	1.187	2.036	18.4	21.2
1 2	8 46.43	+14 10.6	1.129	2.042	13.8	20.9
1 12	8 38.58	+14 30.0	1.090	2.049	8.4	20.6
1 22	8 28.69	+15 1.0	1.076	2.057	2.9	20.3
2 1	8 18.33	+15 37.8	1.087	2.066	4.3	20.4
2 11	8 9.25	+16 14.3	1.123	2.075	9.7	20.8
2 21	8 2.78	+16 45.7	1.182	2.086	14.7	21.1
3 2	7 59.72	+17 9.2	1.261	2.096	18.9	21.4

364425 2006 WM_{78} 1 24.9 161.°44 2.°4/23.5 18

12 23	8 53.58	+24 22.5	2.037	2.869	12.5	21.8
1 2	8 47.27	+25 2.6	1.965	2.874	9.1	21.6
1 12	8 38.71	+25 44.5	1.920	2.878	5.4	21.4
1 22	8 28.69	+26 22.9	1.902	2.881	2.5	21.2
2 1	8 18.30	+26 52.7	1.915	2.884	4.3	21.3
2 11	8 8.72	+27 11.0	1.957	2.887	8.0	21.5
2 21	8 0.95	+27 16.9	2.025	2.889	11.4	21.7
3 2	7 55.66	+27 11.4	2.116	2.891	14.3	21.9

367973 2012 DW_{97} 1 24.9 213.°42 1.°9/26.2 18

12 23	8 49.11	+10 8.8	1.980	2.791	13.6	20.8
1 2	8 44.05	+10 53.5	1.895	2.788	10.3	20.6
1 12	8 36.90	+11 53.8	1.835	2.785	6.5	20.3
1 22	8 28.31	+13 6.4	1.803	2.782	2.7	20.1
2 1	8 19.21	+14 25.9	1.801	2.778	3.2	20.1
2 11	8 10.71	+15 46.0	1.828	2.774	7.1	20.4
2 21	8 3.76	+17 1.3	1.883	2.770	11.0	20.6
3 2	7 59.07	+18 7.7	1.962	2.766	14.3	20.8

157100 2004 JV_{9} 1 24.9 219.°44 2.°9/26.3 18

12 23	8 52.53	+10 15.3	1.592	2.410	16.0	21.1
1 2	8 46.99	+10 26.5	1.510	2.405	12.3	20.8
1 12	8 38.81	+10 54.4	1.451	2.400	7.9	20.6
1 22	8 28.78	+11 36.5	1.418	2.395	3.7	20.3
2 1	8 18.10	+12 28.5	1.413	2.389	4.2	20.3
2 11	8 8.22	+13 24.3	1.435	2.382	8.6	20.6
2 21	8 0.33	+14 18.5	1.484	2.376	13.0	20.8
3 2	7 55.30	+15 6.7	1.554	2.369	16.9	21.0

142486 2002 TK_{25} 1 24.9 165.°51 4.°0/22.8 18

12 23	8 55.41	+28 44.7	1.975	2.808	12.7	20.5
1 2	8 48.74	+29 30.9	1.906	2.812	9.5	20.3
1 12	8 39.63	+30 15.3	1.862	2.815	6.1	20.1
1 22	8 28.93	+30 51.5	1.847	2.818	4.0	19.9
2 1	8 17.83	+31 14.0	1.861	2.820	5.6	20.1
2 11	8 7.66	+31 20.4	1.903	2.822	8.9	20.3
2 21	7 59.48	+31 11.2	1.972	2.824	12.2	20.5
3 2	7 54.01	+30 48.7	2.062	2.825	15.1	20.7

282479 2004 KL_{10} 1 24.9 215.°54 4.°3/26.9 18

12 23	8 53.04	+ 7 34.3	1.687	2.491	15.9	21.3
1 2	8 47.23	+ 7 24.2	1.602	2.486	12.4	21.0
1 12	8 38.89	+ 7 30.9	1.540	2.480	8.5	20.8
1 22	8 28.79	+ 7 53.7	1.503	2.473	5.0	20.6
2 1	8 18.08	+ 8 30.0	1.495	2.466	5.0	20.6
2 11	8 8.10	+ 9 15.0	1.515	2.459	8.6	20.7
2 21	8 0.00	+10 3.6	1.561	2.450	12.7	21.0
3 2	7 54.63	+10 50.8	1.629	2.442	16.4	21.2

379502 2010 FW_{91} 1 24.9 338.°03 2.°0/23.9 18

12 23	8 49.58	+23 25.3	1.755	2.600	13.5	20.4
1 2	8 44.72	+23 45.4	1.675	2.590	9.9	20.1
1 12	8 37.41	+24 8.3	1.619	2.580	5.9	19.9
1 22	8 28.44	+24 29.3	1.590	2.571	2.2	19.6
2 1	8 18.97	+24 43.6	1.589	2.562	4.3	19.7
2 11	8 10.30	+24 48.1	1.615	2.554	8.5	20.0
2 21	8 3.55	+24 42.0	1.666	2.547	12.5	20.2
3 2	7 59.48	+24 25.8	1.739	2.541	15.9	20.4

431521 2007 TD_{215} 1 24.9 165.°67 6.°6/29.1 18

12 23	8 47.46	− 2 4.3	2.424	3.172	13.2	20.9
1 2	8 42.44	− 2 40.7	2.341	3.173	11.0	20.7
1 12	8 35.77	− 3 0.2	2.281	3.174	8.8	20.6
1 22	8 28.04	− 3 1.5	2.246	3.174	7.0	20.5
2 1	8 19.97	− 2 44.8	2.240	3.175	6.6	20.5
2 11	8 12.41	− 2 12.6	2.261	3.175	7.9	20.5
2 21	8 6.07	− 1 29.0	2.309	3.176	10.1	20.7
3 2	8 1.53	− 0 38.5	2.381	3.176	12.3	20.8

519158 2010 NW_{80} 1 24.9 26.°64 3.°1/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 56.96	+27 6.9	1.328	2.180	16.7	20.4
1 2	8 50.42	+26 57.0	1.273	2.190	12.3	20.2
1 12	8 40.74	+26 43.8	1.240	2.200	7.4	19.9
1 22	8 29.17	+26 21.9	1.233	2.212	3.3	19.7
2 1	8 17.42	+25 48.2	1.252	2.225	5.3	19.9
2 11	8 7.25	+25 2.9	1.297	2.238	10.0	20.2
2 21	7 59.89	+24 8.6	1.367	2.252	14.4	20.5
3 2	7 56.00	+23 9.0	1.457	2.267	18.1	20.7

128679 2004 RB_{65} 1 24.9 55.°52 4.°3/23.3 18

12 23	8 56.48	+27 24.9	1.351	2.202	16.4	19.5
1 2	8 50.23	+28 3.8	1.295	2.211	12.1	19.3
1 12	8 40.74	+28 41.5	1.261	2.220	7.6	19.1
1 22	8 29.20	+29 9.8	1.253	2.229	4.4	18.9
2 1	8 17.30	+29 22.0	1.271	2.238	6.4	19.1
2 11	8 6.83	+29 15.6	1.316	2.248	10.8	19.3
2 21	7 59.17	+28 52.2	1.383	2.258	15.0	19.6
3 2	7 55.04	+28 15.5	1.471	2.268	18.6	19.9

120932 1998 SL_{131} 1 24.9 131.°01 3.°0/26.3 18

12 23	8 54.60	+10 31.8	1.661	2.474	15.7	20.3
1 2	8 48.19	+10 32.8	1.594	2.486	11.9	20.1
1 12	8 39.32	+10 48.4	1.550	2.497	7.7	19.9
1 22	8 28.87	+11 16.2	1.532	2.508	3.7	19.7
2 1	8 18.05	+11 52.3	1.544	2.519	4.1	19.7
2 11	8 8.20	+12 32.0	1.584	2.529	8.1	20.0
2 21	8 0.39	+13 10.8	1.650	2.538	12.2	20.2
3 2	7 55.32	+13 45.5	1.738	2.547	15.6	20.5

340974 2007 EW_{137} 1 24.9 5.°65 2.°2/23.8 18

12 23	8 46.70	+18 0.2	0.978	1.851	19.4	19.5
1 2	8 43.88	+19 28.0	0.922	1.850	14.2	19.2
1 12	8 37.47	+21 14.8	0.885	1.851	8.2	18.8
1 22	8 28.53	+23 8.9	0.871	1.853	2.5	18.5
2 1	8 18.81	+24 55.9	0.880	1.856	6.0	18.7
2 11	8 10.42	+26 23.6	0.913	1.861	12.0	19.1
2 21	8 5.00	+27 25.8	0.967	1.867	17.5	19.4
3 2	8 3.54	+28 1.9	1.038	1.875	21.9	19.7

117429 2005 AR_{25} 1 24.9 330.°95 2.°9/25.9 18

12 23	8 49.92	+13 18.0	1.278	2.122	17.6	19.8
1 2	8 45.63	+12 56.2	1.199	2.109	13.5	19.5
1 12	8 38.27	+12 47.8	1.139	2.096	8.6	19.2
1 22	8 28.70	+12 51.8	1.104	2.083	3.7	18.9
2 1	8 18.35	+13 5.1	1.094	2.072	4.7	18.9
2 11	8 8.91	+13 23.4	1.110	2.061	9.9	19.1
2 21	8 1.86	+13 42.5	1.148	2.052	15.0	19.4
3 2	7 58.16	+13 58.8	1.205	2.043	19.4	19.6

459140 2012 CH_{23} 1 24.9 19.°86 0.°2/24.9 18

12 23	8 56.99	+21 7.7	1.551	2.388	15.4	20.7
1 2	8 50.16	+20 37.8	1.480	2.390	11.4	20.4
1 12	8 40.55	+20 9.8	1.433	2.392	6.7	20.2
1 22	8 29.15	+19 41.1	1.412	2.395	1.5	19.8
2 1	8 17.41	+19 9.7	1.420	2.398	3.7	20.0
2 11	8 6.84	+18 34.9	1.456	2.401	8.7	20.3
2 21	7 58.64	+17 57.4	1.517	2.404	13.1	20.6
3 2	7 53.55	+17 18.2	1.600	2.408	16.8	20.8

401992 2003 AC_{5} 1 24.9 32.°61 1.°7/25.7 16

12 23	8 50.11	+12 10.2	1.032	1.886	20.1	20.4
1 2	8 45.53	+12 55.6	1.003	1.919	14.8	20.2
1 12	8 37.89	+14 0.7	0.993	1.953	8.8	20.0
1 22	8 28.51	+15 17.5	1.007	1.988	2.9	19.8
2 1	8 19.10	+16 36.2	1.045	2.025	4.2	20.0
2 11	8 11.33	+17 47.8	1.109	2.062	9.6	20.4
2 21	8 6.34	+18 46.6	1.195	2.101	14.4	20.8
3 2	8 4.66	+19 30.1	1.301	2.140	18.2	21.2

148283 2000 GM_{134} 1 24.9 297.°20 5.°9/28.4 18

12 23	8 47.72	+ 1 56.8	1.699	2.490	16.3	19.9
1 2	8 43.38	+ 2 2.7	1.609	2.478	13.2	19.7
1 12	8 36.69	+ 2 32.2	1.539	2.465	9.7	19.4
1 22	8 28.32	+ 3 25.5	1.494	2.453	6.7	19.2
2 1	8 19.30	+ 4 39.7	1.477	2.441	6.2	19.2
2 11	8 10.86	+ 6 8.4	1.487	2.429	8.9	19.3
2 21	8 4.10	+ 7 43.6	1.522	2.417	12.6	19.5
3 2	7 59.88	+ 9 17.6	1.580	2.405	16.2	19.7

143401 2003 BF_{37} 1 24.9 316.°37 1.°7/23.9 18

12 23	8 49.48	+23 38.6	2.351	3.183	11.0	19.8
1 2	8 44.05	+24 0.3	2.272	3.181	8.0	19.6
1 12	8 36.77	+24 23.6	2.220	3.178	4.7	19.3
1 22	8 28.29	+24 44.9	2.195	3.176	1.8	19.1
2 1	8 19.48	+25 0.6	2.201	3.174	3.5	19.3
2 11	8 11.31	+25 8.4	2.237	3.171	6.8	19.5
2 21	8 4.60	+25 7.5	2.299	3.169	10.0	19.7
3 2	7 59.94	+24 58.3	2.385	3.167	12.7	19.8

288471 2004 FF_3 1 24.9 249°.23 4°.6/29.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 46.25	− 1 12.6	3.143	3.883	10.6	21.7
1 2	8 41.36	− 1 0.4	3.030	3.862	8.8	21.5
1 12	8 35.11	− 0 33.0	2.941	3.841	6.8	21.4
1 22	8 27.92	+ 0 9.4	2.880	3.819	5.1	21.2
2 1	8 20.36	+ 1 5.3	2.849	3.797	4.7	21.2
2 11	8 13.05	+ 2 12.0	2.849	3.774	6.0	21.2
2 21	8 6.62	+ 3 25.3	2.879	3.751	8.1	21.3
3 2	8 1.55	+ 4 41.3	2.935	3.727	10.3	21.5

467442 2006 AB_{62} 1 24.9 355°.73 2°.2/25.9 18

12 23	8 47.96	+13 13.2	1.498	2.336	15.9	20.9
1 2	8 43.71	+13 10.5	1.424	2.332	11.9	20.6
1 12	8 36.90	+13 21.0	1.373	2.328	7.5	20.4
1 22	8 28.38	+13 42.5	1.346	2.326	3.0	20.1
2 1	8 19.34	+14 11.0	1.347	2.325	3.9	20.1
2 11	8 11.17	+14 41.9	1.374	2.324	8.5	20.4
2 21	8 5.02	+15 11.0	1.425	2.325	12.9	20.7
3 2	8 1.68	+15 35.1	1.497	2.326	16.7	20.9

107158 2001 BU_{15} 1 24.9 324°.17 1°.3/25.7 18

12 23	8 46.57	+11 37.2	1.318	2.161	17.3	19.1
1 2	8 43.24	+12 36.1	1.232	2.143	13.1	18.8
1 12	8 36.96	+13 59.0	1.167	2.125	8.0	18.4
1 22	8 28.46	+15 41.0	1.127	2.108	2.6	18.1
2 1	8 19.01	+17 32.8	1.113	2.092	4.0	18.1
2 11	8 10.24	+19 23.2	1.125	2.077	9.8	18.4
2 21	8 3.66	+21 2.6	1.161	2.063	15.1	18.6
3 2	8 0.34	+22 24.8	1.217	2.049	19.6	18.9

257288 2009 HJ_{32} 1 24.9 138°.31 2°.0/23.6 18

12 23	8 53.71	+23 14.5	2.293	3.118	11.5	21.8
1 2	8 47.10	+24 3.6	2.228	3.133	8.3	21.6
1 12	8 38.53	+24 55.0	2.190	3.147	4.9	21.4
1 22	8 28.71	+25 43.6	2.181	3.161	2.1	21.2
2 1	8 18.61	+26 24.8	2.204	3.173	3.8	21.4
2 11	8 9.26	+26 55.3	2.257	3.185	7.1	21.6
2 21	8 1.53	+27 14.2	2.337	3.197	10.3	21.8
3 2	7 56.02	+27 21.9	2.441	3.207	12.9	22.0

86338 1999 XK_{34} 1 24.9 44°.62 1°.9/25.7 18

12 23	8 53.00	+14 7.0	1.171	2.017	18.8	18.7
1 2	8 47.77	+14 10.2	1.116	2.028	14.0	18.5
1 12	8 39.37	+14 28.7	1.082	2.040	8.5	18.2
1 22	8 28.94	+14 58.5	1.071	2.052	3.0	17.9
2 1	8 18.11	+15 33.8	1.086	2.065	4.3	18.0
2 11	8 8.65	+16 8.5	1.126	2.078	9.8	18.4
2 21	8 1.89	+16 38.2	1.190	2.092	14.8	18.7
3 2	7 58.61	+17 0.1	1.272	2.106	18.9	19.0

279945 2001 SP_{134} 1 24.9 149°.19 5°.2/29.4 18

12 23	8 46.57	− 1 57.2	2.860	3.601	11.6	21.7
1 2	8 41.56	− 2 0.7	2.779	3.609	9.5	21.5
1 12	8 35.18	− 1 48.4	2.721	3.616	7.4	21.4
1 22	8 27.94	− 1 20.4	2.690	3.623	5.7	21.3
2 1	8 20.45	− 0 38.1	2.688	3.630	5.3	21.3
2 11	8 13.41	+ 0 15.4	2.716	3.636	6.5	21.4
2 21	8 7.40	+ 1 16.3	2.772	3.642	8.5	21.5
3 2	8 2.91	+ 2 20.4	2.854	3.647	10.6	21.7

374188 2005 AD_3 1 24.9 326°.48 3°.7/25.0 17

12 23	8 57.92	+17 56.5	1.104	1.955	19.4	19.9
1 2	8 53.30	+16 31.2	0.976	1.890	15.3	19.4
1 12	8 44.06	+14 57.3	0.867	1.826	9.9	18.8
1 22	8 30.41	+13 12.4	0.781	1.761	4.4	18.3
2 1	8 13.63	+11 16.7	0.720	1.697	6.8	18.1
2 11	7 56.16	+ 9 13.9	0.683	1.633	14.7	18.3
2 21	7 40.83	+ 7 11.3	0.668	1.570	22.8	18.4
3 2	7 30.04	+ 5 15.2	0.668	1.509	30.3	18.5

82520 2001 OP_{53} 1 24.9 124°.88 2°.7/23.0 18

12 23	8 52.78	+23 36.7	2.064	2.896	12.3	19.3
1 2	8 46.68	+24 52.2	2.002	2.910	8.9	19.1
1 12	8 38.41	+26 11.0	1.966	2.923	5.3	18.9
1 22	8 28.71	+27 26.4	1.959	2.936	2.8	18.8
2 1	8 18.64	+28 32.0	1.983	2.949	4.6	18.9
2 11	8 9.36	+29 23.2	2.036	2.961	8.1	19.2
2 21	8 1.82	+29 58.6	2.116	2.972	11.3	19.4
3 2	7 56.70	+30 18.8	2.219	2.983	14.1	19.6

162728 2000 VY_{14} 1 24.9 79°.39 0°.9/24.5 18

12 23	8 54.22	+18 34.5	1.497	2.336	15.8	20.2
1 2	8 48.12	+19 21.9	1.445	2.357	11.5	20.0
1 12	8 39.35	+20 17.9	1.417	2.377	6.6	19.7
1 22	8 28.92	+21 16.0	1.415	2.397	1.6	19.5
2 1	8 18.22	+22 9.2	1.441	2.418	4.0	19.7
2 11	8 8.72	+22 52.0	1.495	2.438	8.8	20.0
2 21	8 1.54	+23 22.2	1.574	2.457	13.0	20.3
3 2	7 57.35	+23 39.6	1.675	2.477	16.4	20.6

368689 2005 SN_{42} 1 24.9 208°.72 0°.2/24.8 13 C

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 52.25	+18 27.0	2.471	3.288	11.0	22.8
1 2	8 46.04	+18 47.9	2.380	3.281	8.1	22.6
1 12	8 37.96	+19 14.1	2.316	3.273	4.7	22.4
1 22	8 28.62	+19 42.5	2.281	3.264	1.1	22.1
2 1	8 18.88	+20 9.6	2.278	3.255	2.7	22.2
2 11	8 9.66	+20 32.6	2.305	3.244	6.3	22.5
2 21	8 1.80	+20 49.6	2.361	3.234	9.7	22.6
3 2	7 55.94	+20 59.9	2.441	3.222	12.5	22.8

100683 1997 YW_1 1 24.9 24°.34 7°.1/22.1 18

12 23	8 53.07	+34 3.9	1.347	2.203	16.2	17.7
1 2	8 47.68	+34 57.1	1.311	2.223	12.3	17.6
1 12	8 39.19	+35 40.7	1.297	2.245	8.8	17.4
1 22	8 28.88	+36 5.8	1.307	2.268	7.1	17.4
2 1	8 18.49	+36 6.9	1.343	2.292	8.6	17.5
2 11	8 9.72	+35 43.6	1.403	2.318	11.8	17.8
2 21	8 3.75	+34 59.9	1.486	2.344	15.1	18.0
3 2	8 1.16	+34 1.3	1.588	2.372	18.0	18.3

451929 2014 LF_{12} 1 24.9 293°.97 1°.9/25.6 18

12 23	8 53.02	+14 36.4	1.344	2.183	17.2	20.9
1 2	8 47.87	+14 30.2	1.263	2.171	13.0	20.7
1 12	8 39.60	+14 36.7	1.202	2.159	8.0	20.3
1 22	8 29.08	+14 53.3	1.166	2.147	2.9	20.0
2 1	8 17.74	+15 15.8	1.157	2.136	4.2	20.0
2 11	8 7.31	+15 39.4	1.174	2.124	9.7	20.3
2 21	7 59.26	+16 0.2	1.214	2.113	14.8	20.6
3 2	7 54.59	+16 15.5	1.275	2.101	19.2	20.8

209611 2005 AX_4 1 24.9 350°.72 1°.8/24.3 18

12 23	8 50.81	+21 36.5	1.213	2.073	17.3	19.7
1 2	8 46.45	+21 58.2	1.145	2.067	12.7	19.4
1 12	8 38.80	+22 26.7	1.098	2.062	7.5	19.1
1 22	8 28.88	+22 55.6	1.076	2.058	2.2	18.8
2 1	8 18.30	+23 18.1	1.078	2.055	5.0	18.9
2 11	8 8.91	+23 29.3	1.105	2.053	10.5	19.2
2 21	8 2.20	+23 27.7	1.155	2.052	15.6	19.5
3 2	7 59.07	+23 14.1	1.223	2.052	19.8	19.8

416906 2005 RH_9 1 24.9 84°.22 1°.0/24.3 18

12 23	8 52.91	+17 56.1	1.908	2.735	13.4	20.7
1 2	8 46.69	+19 6.3	1.858	2.764	9.7	20.5
1 12	8 38.34	+20 24.1	1.834	2.793	5.5	20.3
1 22	8 28.70	+21 43.1	1.838	2.821	1.4	20.1
2 1	8 18.84	+22 56.7	1.873	2.849	3.5	20.3
2 11	8 9.91	+23 59.6	1.938	2.876	7.5	20.6
2 21	8 2.81	+24 49.3	2.030	2.903	11.0	20.8
3 2	7 58.15	+25 25.3	2.145	2.929	13.9	21.1

323477 2004 LG_{25} 1 24.9 242°.39 3°.6/26.6 17

12 23	8 52.39	+ 9 18.8	2.131	2.929	13.2	20.2
1 2	8 46.35	+ 8 48.3	2.036	2.917	10.3	20.0
1 12	8 38.24	+ 8 28.2	1.966	2.905	7.0	19.8
1 22	8 28.71	+ 8 18.6	1.923	2.892	4.1	19.6
2 1	8 18.68	+ 8 18.4	1.910	2.880	4.3	19.6
2 11	8 9.21	+ 8 25.7	1.927	2.866	7.4	19.7
2 21	8 1.23	+ 8 37.7	1.971	2.853	10.8	19.9
3 2	7 55.45	+ 8 51.8	2.039	2.839	14.0	20.1

248008 2004 EF_{46} 1 24.9 267°.00 6°.2/20.7 18

12 23	8 54.55	+38 38.6	2.476	3.295	10.9	20.3
1 2	8 48.06	+39 29.3	2.395	3.280	8.7	20.2
1 12	8 39.27	+40 12.1	2.339	3.265	6.9	20.0
1 22	8 28.95	+40 40.7	2.312	3.249	6.2	20.0
2 1	8 18.14	+40 50.4	2.313	3.234	7.3	20.0
2 11	8 8.08	+40 39.5	2.341	3.218	9.5	20.1
2 21	7 59.77	+40 9.6	2.395	3.202	11.8	20.2
3 2	7 53.95	+39 23.9	2.470	3.186	14.0	20.4

320823 2008 FA_{29} 1 24.9 40°.80 3°.4/23.6 18

12 23	8 53.83	+24 58.7	1.307	2.162	16.6	20.3
1 2	8 48.18	+25 38.3	1.261	2.180	12.1	20.1
1 12	8 39.50	+26 19.3	1.237	2.198	7.2	19.9
1 22	8 28.98	+26 53.9	1.238	2.217	3.5	19.7
2 1	8 18.24	+27 15.7	1.266	2.237	5.7	19.9
2 11	8 8.97	+27 21.6	1.319	2.257	10.2	20.2
2 21	8 2.37	+27 12.0	1.396	2.278	14.4	20.5
3 2	7 59.12	+26 49.6	1.493	2.299	17.9	20.8

60729 2000 GZ_{78} 1 24.9 50°.49 6°.3/22.1 18

12 23	8 55.78	+29 54.2	1.273	2.129	16.9	19.2
1 2	8 50.06	+31 11.5	1.222	2.138	12.7	18.9
1 12	8 40.85	+32 26.2	1.193	2.147	8.5	18.7
1 22	8 29.34	+33 27.1	1.188	2.156	6.3	18.6
2 1	8 17.35	+34 4.6	1.209	2.166	8.4	18.8
2 11	8 6.86	+34 15.3	1.255	2.176	12.4	19.0
2 21	7 59.36	+34 1.3	1.323	2.186	16.3	19.3
3 2	7 55.66	+33 27.7	1.409	2.196	19.7	19.5

406123 2006 VU_{62} 1 24.9 93°.72 0°.5/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 53.51	+18 44.0	1.821	2.651	13.8	21.9
1 2	8 47.23	+19 11.0	1.763	2.669	10.1	21.7
1 12	8 38.70	+19 44.3	1.729	2.688	5.8	21.5
1 22	8 28.79	+20 19.5	1.723	2.706	1.3	21.2
2 1	8 18.65	+20 51.9	1.747	2.724	3.3	21.4
2 11	8 9.49	+21 17.7	1.800	2.741	7.6	21.7
2 21	8 2.25	+21 35.2	1.879	2.759	11.4	22.0
3 2	7 57.58	+21 44.0	1.980	2.776	14.5	22.2

376759 1999 VT_{152} 1 24.9 320°.02 3°.2/22.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.70	+25 41.6	1.997	2.837	12.4	21.1
1 2	8 45.35	+26 37.9	1.925	2.836	9.1	20.9
1 12	8 37.73	+27 36.1	1.878	2.835	5.6	20.7
1 22	8 28.61	+28 30.0	1.859	2.834	3.2	20.5
2 1	8 19.03	+29 13.8	1.869	2.834	5.0	20.6
2 11	8 10.20	+29 43.6	1.907	2.833	8.4	20.8
2 21	8 3.13	+29 58.4	1.972	2.832	11.8	21.1
3 2	7 58.54	+29 59.1	2.058	2.832	14.7	21.3

281307 2007 SO_{9} 1 24.9 170°.56 2°.9/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.32	+ 7 34.2	2.519	3.311	11.6	21.0
1 2	8 42.33	+ 7 47.9	2.435	3.313	9.0	20.8
1 12	8 35.75	+ 8 14.1	2.376	3.314	6.0	20.7
1 22	8 28.13	+ 8 51.2	2.346	3.316	3.4	20.5
2 1	8 20.19	+ 9 36.6	2.346	3.317	3.4	20.5
2 11	8 12.75	+10 26.6	2.376	3.318	6.0	20.7
2 21	8 6.50	+11 17.6	2.434	3.318	8.9	20.8
3 2	8 1.99	+12 6.3	2.517	3.319	11.6	21.0

86514 2000 DW_{63} 1 24.9 152°.91 0°.3/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 56.48	+18 47.6	1.756	2.583	14.4	19.6
1 2	8 49.60	+19 5.4	1.686	2.591	10.6	19.4
1 12	8 40.21	+19 29.7	1.640	2.598	6.1	19.1
1 22	8 29.19	+19 56.1	1.622	2.605	1.4	18.8
2 1	8 17.78	+20 20.0	1.634	2.611	3.5	19.0
2 11	8 7.35	+20 37.9	1.675	2.617	8.1	19.3
2 21	7 58.98	+20 48.0	1.742	2.621	12.1	19.5
3 2	7 53.42	+20 50.1	1.832	2.625	15.5	19.8

225323 1998 FY_{9} 1 24.9 285°.84 5°.3/27.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.37	+ 3 52.0	1.931	2.721	14.7	20.5
1 2	8 43.67	+ 3 39.1	1.835	2.705	11.8	20.3
1 12	8 36.82	+ 3 44.0	1.760	2.688	8.6	20.1
1 22	8 28.44	+ 4 7.2	1.712	2.671	5.9	19.9
2 1	8 19.45	+ 4 47.1	1.691	2.654	5.6	19.8
2 11	8 10.96	+ 5 39.7	1.698	2.637	8.2	19.9
2 21	8 3.97	+ 6 39.6	1.731	2.620	11.7	20.1
3 2	7 59.25	+ 7 41.3	1.788	2.603	15.0	20.3

125773 2001 XA_{140} 1 24.9 348°.87 3°.6/23.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.21	+23 29.9	1.359	2.213	16.2	19.5
1 2	8 47.33	+24 42.9	1.292	2.211	11.9	19.2
1 12	8 39.29	+26 2.9	1.248	2.209	7.2	18.9
1 22	8 29.04	+27 20.4	1.229	2.208	3.7	18.7
2 1	8 18.10	+28 25.6	1.238	2.207	6.2	18.9
2 11	8 8.23	+29 11.8	1.272	2.206	10.9	19.1
2 21	8 0.89	+29 36.9	1.329	2.205	15.4	19.4
3 2	7 56.99	+29 42.6	1.405	2.205	19.1	19.6

367515 2009 OD_{9} 1 24.9 232°.11 0°.4/25.1 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.04	+17 46.1	2.207	3.024	12.2	21.8
1 2	8 47.56	+17 44.6	2.112	3.011	9.0	21.5
1 12	8 38.97	+17 48.3	2.042	2.998	5.4	21.3
1 22	8 28.92	+17 54.7	2.002	2.984	1.4	21.0
2 1	8 18.38	+18 1.0	1.992	2.970	2.9	21.1
2 11	8 8.43	+18 4.8	2.013	2.955	6.9	21.3
2 21	8 0.03	+18 4.8	2.062	2.940	10.6	21.5
3 2	7 53.89	+18 0.4	2.135	2.924	13.8	21.7

491915 2013 CW_{63} 1 24.9 222°.89 2°.1/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.07	+13 46.3	1.684	2.506	15.1	21.4
1 2	8 48.03	+13 37.8	1.602	2.501	11.4	21.1
1 12	8 39.42	+13 40.0	1.543	2.496	7.1	20.9
1 22	8 29.05	+13 50.7	1.511	2.490	2.8	20.6
2 1	8 18.11	+14 7.0	1.507	2.485	3.7	20.6
2 11	8 7.99	+14 25.1	1.532	2.478	8.2	20.9
2 21	7 59.85	+14 42.0	1.583	2.472	12.6	21.1
3 2	7 54.49	+14 55.6	1.656	2.465	16.3	21.3

133273 2003 SC_{13} 1 24.9 160°.35 0°.3/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.62	+16 29.4	2.010	2.830	13.1	21.5
1 2	8 47.28	+16 56.4	1.936	2.837	9.6	21.3
1 12	8 38.79	+17 31.7	1.886	2.843	5.7	21.1
1 22	8 28.88	+18 11.4	1.866	2.848	1.4	20.8
2 1	8 18.58	+18 51.0	1.875	2.853	3.0	20.9
2 11	8 9.05	+19 26.5	1.915	2.857	7.2	21.2
2 21	8 1.24	+19 55.3	1.981	2.860	10.9	21.5
3 2	7 55.81	+20 16.1	2.071	2.863	14.1	21.7

213933 2003 UY_{414} 1 24.9 5°.48 0°.2/25.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 47.85	+16 24.2	1.167	2.026	17.9	19.9
1 2	8 44.24	+16 56.8	1.104	2.025	13.3	19.6
1 12	8 37.50	+17 44.3	1.063	2.026	7.8	19.3
1 22	8 28.63	+18 40.6	1.045	2.028	1.8	19.0
2 1	8 19.17	+19 37.8	1.052	2.031	4.2	19.1
2 11	8 10.87	+20 28.3	1.084	2.036	10.0	19.5
2 21	8 5.13	+21 7.2	1.138	2.042	15.1	19.8
3 2	8 2.80	+21 32.3	1.211	2.048	19.4	20.1

363348 2002 QP_{101} 1 24.9 70°.19 4°.2/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.46	+ 6 31.5	1.598	2.407	16.4	21.0
1 2	8 45.27	+ 6 40.9	1.535	2.421	12.7	20.8
1 12	8 37.71	+ 7 9.9	1.494	2.435	8.6	20.6
1 22	8 28.64	+ 7 56.5	1.479	2.449	5.0	20.4
2 1	8 19.23	+ 8 56.1	1.491	2.463	4.8	20.4
2 11	8 10.74	+10 2.4	1.531	2.477	8.2	20.7
2 21	8 4.19	+11 9.0	1.596	2.491	12.1	20.9
3 2	8 0.28	+12 10.7	1.684	2.505	15.5	21.2

453833 2011 SL_{170} 1 24.9 145°.45 1°.4/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.85	+21 16.7	1.914	2.741	13.3	22.2
1 2	8 49.00	+21 50.9	1.846	2.752	9.7	22.0
1 12	8 39.81	+22 29.4	1.804	2.763	5.6	21.7
1 22	8 29.12	+23 7.0	1.791	2.773	1.7	21.5
2 1	8 18.10	+23 38.7	1.808	2.782	3.8	21.7
2 11	8 7.98	+24 1.1	1.854	2.790	7.8	21.9
2 21	7 59.81	+24 12.9	1.926	2.798	11.6	22.2
3 2	7 54.25	+24 14.6	2.022	2.804	14.7	22.4

399979 Lewseaman 1 24.9 255°.90 4°.3/27.9 17 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.22	+ 3 4.4	1.823	2.608	15.6	21.2
1 2	8 46.02	+ 3 55.3	1.719	2.589	12.4	21.0
1 12	8 38.36	+ 5 12.2	1.637	2.570	8.7	20.7
1 22	8 28.86	+ 6 53.2	1.583	2.550	5.2	20.5
2 1	8 18.52	+ 8 52.9	1.558	2.529	4.8	20.4
2 11	8 8.59	+11 2.5	1.563	2.508	8.2	20.5
2 21	8 0.25	+13 12.3	1.597	2.486	12.4	20.7
3 2	7 54.44	+15 14.0	1.655	2.464	16.3	20.9

451084 2009 BU_{106} 1 24.9 44°.20 1°.2/25.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.09	+15 43.6	1.291	2.135	17.5	20.5
1 2	8 47.65	+15 45.0	1.235	2.147	13.0	20.3
1 12	8 39.26	+15 58.3	1.201	2.159	7.8	20.0
1 22	8 29.01	+16 19.5	1.191	2.173	2.3	19.7
2 1	8 18.42	+16 43.7	1.207	2.186	3.9	19.9
2 11	8 9.11	+17 6.1	1.250	2.200	9.2	20.2
2 21	8 2.32	+17 23.4	1.316	2.215	13.9	20.5
3 2	7 58.77	+17 34.1	1.403	2.229	17.8	20.8

467512 2007 EN_{66} 1 24.9 324°.17 7°.8/21.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.21	+38 37.4	1.809	2.640	13.8	20.6
1 2	8 50.60	+39 35.6	1.744	2.636	11.1	20.4
1 12	8 41.00	+40 23.4	1.703	2.633	8.7	20.3
1 22	8 29.42	+40 51.9	1.688	2.630	7.8	20.2
2 1	8 17.38	+40 55.2	1.700	2.627	9.1	20.3
2 11	8 6.54	+40 31.9	1.738	2.624	11.7	20.4
2 21	7 58.20	+39 45.4	1.799	2.621	14.5	20.6
3 2	7 53.14	+38 41.3	1.880	2.619	17.1	20.8

330436 2007 DR_{34} 1 24.9 290°.82 5°.2/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.46	+ 2 22.0	1.883	2.669	15.1	20.2
1 2	8 43.03	+ 2 38.3	1.790	2.658	12.2	20.0
1 12	8 36.46	+ 3 16.7	1.720	2.646	8.9	19.8
1 22	8 28.39	+ 4 16.3	1.675	2.635	5.9	19.6
2 1	8 19.73	+ 5 34.1	1.659	2.624	5.4	19.5
2 11	8 11.60	+ 7 3.8	1.670	2.612	8.1	19.7
2 21	8 5.00	+ 8 38.2	1.709	2.601	11.6	19.8
3 2	8 0.68	+10 10.5	1.771	2.590	15.0	20.0

405914 2006 JX_{62} 1 24.9 225°.79 2°.9/23.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 56.23	+25 13.1	1.833	2.666	13.6	22.2
1 2	8 49.66	+25 49.0	1.749	2.657	10.0	22.0
1 12	8 40.41	+26 26.6	1.690	2.648	6.1	21.7
1 22	8 29.32	+26 59.7	1.660	2.638	3.0	21.5
2 1	8 17.60	+27 22.7	1.658	2.627	4.9	21.6
2 11	8 6.72	+27 32.1	1.685	2.616	9.0	21.8
2 21	7 57.87	+27 27.5	1.738	2.604	12.9	22.0
3 2	7 51.90	+27 10.5	1.813	2.592	16.3	22.2

82331 2001 LC_{5} 1 24.9 195°.62 3°.8/22.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 56.77	+26 23.8	1.814	2.649	13.7	19.9
1 2	8 50.10	+27 28.2	1.738	2.646	10.1	19.7
1 12	8 40.69	+28 34.4	1.688	2.643	6.3	19.4
1 22	8 29.39	+29 34.7	1.666	2.640	3.8	19.3
2 1	8 17.46	+30 21.9	1.673	2.635	5.8	19.4
2 11	8 6.40	+30 51.5	1.708	2.630	9.5	19.6
2 21	7 57.45	+31 2.9	1.769	2.624	13.3	19.8
3 2	7 51.46	+30 58.1	1.851	2.617	16.4	20.0

412019 2013 BX_{39} 1 24.9 283°.72 0°.9/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 1.65	+23 4.2	1.595	2.425	15.4	20.9
1 2	8 54.18	+22 35.9	1.490	2.396	11.6	20.6
1 12	8 43.37	+22 5.8	1.409	2.367	6.9	20.2
1 22	8 30.07	+21 30.2	1.355	2.337	1.8	19.8
2 1	8 15.75	+20 46.2	1.330	2.307	4.2	19.9
2 11	8 2.23	+19 53.3	1.335	2.277	9.7	20.1
2 21	7 51.08	+18 53.9	1.366	2.246	14.8	20.4
3 2	7 43.42	+17 50.9	1.418	2.215	19.1	20.6

285053 2011 HN_{8} 1 24.9 126°.97 4°.5/21.6 18

12 23	8 51.47	+30 16.2	2.294	3.127	11.2	20.7
1 2	8 45.74	+31 34.0	2.230	3.134	8.4	20.5
1 12	8 37.92	+32 49.9	2.193	3.141	5.7	20.3
1 22	8 28.71	+33 57.4	2.186	3.148	4.5	20.3
2 1	8 19.10	+34 50.6	2.208	3.155	5.9	20.4
2 11	8 10.19	+35 26.3	2.258	3.161	8.5	20.6
2 21	8 2.91	+35 44.3	2.335	3.167	11.3	20.7
3 2	7 57.94	+35 46.1	2.433	3.173	13.6	20.9

258057 2001 OQ_{20} 1 24.9 90°.57 7°.0/29.5 18

12 23	8 51.59	− 2 5.2	1.989	2.742	15.6	20.5
1 2	8 45.58	− 2 26.1	1.931	2.769	12.8	20.4
1 12	8 37.68	− 2 25.4	1.895	2.795	9.9	20.3
1 22	8 28.64	− 2 2.8	1.885	2.820	7.6	20.2
2 1	8 19.40	− 1 20.4	1.902	2.845	7.0	20.2
2 11	8 10.99	− 0 22.7	1.948	2.870	8.5	20.3
2 21	8 4.21	+ 0 44.2	2.020	2.894	11.0	20.5
3 2	7 59.62	+ 1 54.2	2.116	2.917	13.5	20.7

275386 2011 AP_{76} 1 24.9 123°.14 0°.1/24.9 18

12 23	8 53.63	+19 23.9	1.954	2.782	13.1	20.5
1 2	8 47.32	+19 22.4	1.881	2.786	9.6	20.3
1 12	8 38.82	+19 25.3	1.833	2.791	5.6	20.1
1 22	8 28.92	+19 29.6	1.813	2.796	1.3	19.8
2 1	8 18.70	+19 32.3	1.822	2.800	3.1	20.0
2 11	8 9.33	+19 31.1	1.861	2.804	7.3	20.2
2 21	8 1.76	+19 25.0	1.927	2.808	11.1	20.5
3 2	7 56.65	+19 14.0	2.016	2.812	14.2	20.7

123063 2000 SL_{303} 1 24.9 254°.13 5°.9/28.2 18

12 23	8 49.24	+ 2 3.3	2.057	2.833	14.4	19.9
1 2	8 44.15	+ 1 38.8	1.965	2.823	11.7	19.7
1 12	8 37.04	+ 1 31.7	1.896	2.813	8.8	19.5
1 22	8 28.54	+ 1 42.9	1.853	2.803	6.4	19.4
2 1	8 19.53	+ 2 11.3	1.837	2.793	6.1	19.3
2 11	8 11.04	+ 2 53.7	1.850	2.782	8.2	19.4
2 21	8 3.99	+ 3 45.4	1.890	2.771	11.2	19.6
3 2	7 59.10	+ 4 41.1	1.952	2.761	14.2	19.8

403537 2010 GY_{114} 1 24.9 256°.23 3°.0/23.5 18

12 23	8 54.87	+24 24.6	1.574	2.417	14.9	21.5
1 2	8 49.02	+25 7.6	1.495	2.408	11.0	21.3
1 12	8 40.21	+25 54.2	1.440	2.399	6.7	21.0
1 22	8 29.31	+26 37.4	1.411	2.390	3.1	20.8
2 1	8 17.71	+27 10.1	1.410	2.380	5.4	20.9
2 11	8 7.03	+27 27.9	1.436	2.370	9.9	21.1
2 21	7 58.63	+27 29.7	1.487	2.360	14.2	21.3
3 2	7 53.44	+27 17.3	1.558	2.350	17.9	21.5

281320 2007 TB_{146} 1 24.9 113°.13 0°.6/24.6 18

12 23	8 49.95	+19 42.1	2.465	3.289	10.8	21.3
1 2	8 44.25	+20 5.2	2.397	3.301	7.9	21.1
1 12	8 36.88	+20 32.5	2.355	3.313	4.5	21.0
1 22	8 28.46	+21 0.5	2.343	3.325	1.1	20.7
2 1	8 19.81	+21 26.1	2.361	3.337	2.7	20.9
2 11	8 11.81	+21 46.6	2.409	3.349	6.1	21.1
2 21	8 5.19	+22 0.7	2.485	3.360	9.2	21.3
3 2	8 0.48	+22 7.7	2.586	3.371	11.8	21.5

127201 2002 HY_{4} 1 24.9 252°.78 3°.2/22.7 18

12 23	8 51.76	+26 37.7	2.330	3.161	11.1	19.6
1 2	8 46.05	+27 33.4	2.237	3.144	8.2	19.4
1 12	8 38.19	+28 30.7	2.171	3.126	5.2	19.2
1 22	8 28.82	+29 24.1	2.134	3.107	3.2	19.0
2 1	8 18.86	+30 8.2	2.127	3.088	4.8	19.1
2 11	8 9.40	+30 39.2	2.149	3.069	8.0	19.3
2 21	8 1.44	+30 55.7	2.198	3.049	11.2	19.4
3 2	7 55.71	+30 58.5	2.270	3.029	14.0	19.6

75881 2000 CC_{31} 1 24.9 103°.33 3°.9/28.0 18

12 23	8 47.67	+ 3 52.8	2.212	2.995	13.3	19.5
1 2	8 42.77	+ 4 21.5	2.136	3.004	10.4	19.3
1 12	8 36.10	+ 5 7.9	2.083	3.013	7.3	19.1
1 22	8 28.30	+ 6 9.9	2.058	3.021	4.6	19.0
2 1	8 20.18	+ 7 23.9	2.062	3.030	4.2	19.0
2 11	8 12.64	+ 8 44.3	2.096	3.038	6.7	19.1
2 21	8 6.46	+10 5.7	2.159	3.047	9.7	19.3
3 2	8 2.21	+11 23.2	2.246	3.055	12.6	19.5

105197 2000 OY_{38} 1 24.9 223°.97 3°.9/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 52.06	+ 7 55.1	2.238	3.029	12.9	19.4
1 2	8 46.05	+ 7 27.7	2.145	3.020	10.1	19.2
1 12	8 38.07	+ 7 11.5	2.076	3.011	7.0	19.0
1 22	8 28.78	+ 7 6.6	2.036	3.002	4.3	18.8
2 1	8 19.03	+ 7 11.9	2.025	2.992	4.4	18.8
2 11	8 9.82	+ 7 25.2	2.044	2.981	7.1	18.9
2 21	8 2.01	+ 7 43.8	2.090	2.970	10.4	19.1
3 2	7 56.29	+ 8 4.5	2.161	2.959	13.3	19.3

260715 2005 JC_{164} 1 24.9 184°.51 6°.4/29.3 18

12 23	8 49.87	− 1 46.3	2.221	2.972	14.2	21.2
1 2	8 44.42	− 1 55.8	2.135	2.972	11.7	21.0
1 12	8 37.11	− 1 45.3	2.071	2.972	9.1	20.9
1 22	8 28.55	− 1 14.5	2.034	2.972	7.0	20.7
2 1	8 19.59	− 0 24.9	2.025	2.970	6.5	20.7
2 11	8 11.16	+ 0 39.7	2.044	2.968	8.0	20.8
2 21	8 4.10	+ 1 53.5	2.091	2.966	10.6	20.9
3 2	7 59.05	+ 3 10.7	2.162	2.963	13.3	21.1

104843 2000 HZ_{71} 1 24.9 220°.43 1°.5/25.9 18

12 23	8 51.27	+13 6.3	2.254	3.063	12.2	21.5
1 2	8 45.51	+13 18.7	2.162	3.055	9.2	21.3
1 12	8 37.78	+13 40.8	2.094	3.045	5.7	21.1
1 22	8 28.72	+14 10.3	2.055	3.035	2.2	20.8
2 1	8 19.18	+14 44.2	2.047	3.024	2.9	20.9
2 11	8 10.17	+15 18.8	2.069	3.013	6.6	21.1
2 21	8 2.56	+15 51.2	2.119	3.001	10.2	21.3
3 2	7 57.04	+16 19.1	2.192	2.988	13.2	21.5

53892 2000 FE_{43} 1 24.9 351°.26 0°.8/24.6 18

12 23	8 50.77	+17 42.4	1.221	2.076	17.6	18.6
1 2	8 46.44	+18 30.0	1.153	2.072	13.0	18.4
1 12	8 38.87	+19 31.6	1.107	2.070	7.6	18.0
1 22	8 29.03	+20 40.1	1.085	2.068	1.8	17.7
2 1	8 18.47	+21 46.5	1.088	2.066	4.6	17.9
2 11	8 9.00	+22 42.6	1.117	2.065	10.3	18.2
2 21	8 2.12	+23 23.9	1.169	2.065	15.5	18.5
3 2	7 58.77	+23 49.1	1.240	2.065	19.7	18.7

473637 2015 XC_{314} 1 24.9 118°.62 2°.9/23.4 18

12 23	8 55.86	+24 1.6	1.732	2.568	14.1	21.5
1 2	8 49.25	+25 2.3	1.673	2.583	10.3	21.3
1 12	8 40.07	+26 5.8	1.640	2.598	6.1	21.1
1 22	8 29.24	+27 4.7	1.635	2.613	3.0	21.0
2 1	8 18.07	+27 52.5	1.659	2.627	5.0	21.1
2 11	8 7.94	+28 24.8	1.711	2.640	9.0	21.4
2 21	7 59.99	+28 41.1	1.789	2.653	12.7	21.6
3 2	7 54.90	+28 42.9	1.889	2.666	15.8	21.9

243973 2001 RP 1 24.9 85°.27 4°.0/27.1 18

12 23	8 53.27	+ 6 55.9	2.477	3.256	12.2	19.9
1 2	8 46.45	+ 6 11.6	2.415	3.281	9.5	19.7
1 12	8 38.05	+ 5 38.1	2.379	3.306	6.7	19.6
1 22	8 28.73	+ 5 15.6	2.371	3.331	4.4	19.5
2 1	8 19.30	+ 5 3.6	2.395	3.356	4.4	19.5
2 11	8 10.60	+ 5 0.3	2.449	3.380	6.5	19.7
2 21	8 3.30	+ 5 3.7	2.532	3.404	9.1	19.9
3 2	7 57.88	+ 5 11.0	2.639	3.428	11.4	20.1

503026 2015 FL_{136} 1 24.9 13°.92 3°.3/23.5 18

12 23	8 54.33	+29 7.0	2.081	2.914	12.2	20.7
1 2	8 47.82	+29 15.0	2.009	2.916	9.0	20.5
1 12	8 39.10	+29 19.3	1.963	2.917	5.7	20.3
1 22	8 29.01	+29 15.6	1.945	2.919	3.4	20.2
2 1	8 18.64	+29 0.5	1.956	2.921	4.8	20.3
2 11	8 9.21	+28 33.3	1.996	2.923	8.0	20.5
2 21	8 1.64	+27 55.3	2.063	2.926	11.3	20.7
3 2	7 56.58	+27 8.9	2.153	2.929	14.1	20.9

67892 2000 WS_{61} 1 24.9 24°.37 0°.1/24.9 18

12 23	8 51.58	+18 9.2	1.222	2.076	17.6	18.4
1 2	8 46.78	+18 20.9	1.165	2.083	13.0	18.2
1 12	8 38.88	+18 42.6	1.129	2.091	7.6	17.9
1 22	8 29.00	+19 9.3	1.117	2.100	1.8	17.6
2 1	8 18.68	+19 35.1	1.131	2.110	4.1	17.8
2 11	8 9.67	+19 55.0	1.171	2.121	9.7	18.1
2 21	8 3.27	+20 6.5	1.233	2.133	14.5	18.4
3 2	8 0.24	+20 8.7	1.315	2.145	18.6	18.7

404510 2013 HO_{50} 1 24.9 186°.25 1°.3/24.3 18

12 23	8 54.59	+21 41.2	1.905	2.736	13.3	21.5
1 2	8 48.21	+22 2.2	1.828	2.736	9.7	21.2
1 12	8 39.44	+22 27.0	1.776	2.735	5.7	21.0
1 22	8 29.11	+22 51.0	1.753	2.734	1.7	20.7
2 1	8 18.35	+23 9.7	1.758	2.733	3.7	20.9
2 11	8 8.42	+23 20.2	1.793	2.732	7.9	21.1
2 21	8 0.37	+23 21.4	1.855	2.730	11.7	21.3
3 2	7 54.93	+23 13.7	1.939	2.727	15.0	21.5

239349 2007 RM_{149} 1 24.9 51°.71 12°.0/ 4.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 47.60	−18 11.4	2.101	2.753	17.6	20.0
1 2	8 42.77	−19 7.7	2.046	2.775	15.9	19.9
1 12	8 36.11	−19 34.2	2.009	2.797	14.2	19.9
1 22	8 28.31	−19 27.8	1.991	2.820	12.8	19.8
2 1	8 20.27	−18 48.2	1.995	2.843	12.1	19.8
2 11	8 12.96	−17 38.9	2.023	2.866	12.2	19.8
2 21	8 7.15	−16 6.8	2.073	2.889	13.1	20.0
3 2	8 3.42	−14 20.3	2.146	2.913	14.4	20.1

448175 2008 TC_{148} 1 24.9 39°.57 2°.3/26.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.20	+12 1.4	1.231	2.072	18.4	21.4
1 2	8 46.45	+12 18.9	1.172	2.081	13.8	21.1
1 12	8 38.69	+12 54.7	1.135	2.090	8.6	20.9
1 22	8 28.96	+13 44.7	1.121	2.101	3.4	20.6
2 1	8 18.76	+14 42.4	1.133	2.111	4.2	20.7
2 11	8 9.77	+15 40.1	1.170	2.122	9.4	21.0
2 21	8 3.27	+16 31.8	1.231	2.134	14.3	21.3
3 2	8 0.07	+17 13.8	1.312	2.146	18.4	21.6

343188 2009 UT_{144} 1 24.9 127°.75 5°.6/22.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.53	+30 49.5	1.595	2.430	15.2	21.4
1 2	8 53.68	+31 51.9	1.541	2.446	11.4	21.2
1 12	8 42.75	+32 49.7	1.512	2.462	7.6	21.0
1 22	8 29.88	+33 33.6	1.510	2.476	5.6	20.9
2 1	8 16.68	+33 56.7	1.537	2.490	7.3	21.0
2 11	8 4.90	+33 57.0	1.590	2.503	10.8	21.3
2 21	7 55.82	+33 36.8	1.668	2.515	14.3	21.5
3 2	7 50.19	+33 1.0	1.766	2.527	17.3	21.8

306080 2010 GP_{138} 1 24.9 181°.63 0°.4/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.21	+18 59.4	1.941	2.765	13.3	21.7
1 2	8 48.61	+19 21.2	1.862	2.766	9.8	21.5
1 12	8 39.67	+19 49.2	1.809	2.767	5.7	21.3
1 22	8 29.17	+20 19.0	1.784	2.767	1.3	21.0
2 1	8 18.23	+20 46.5	1.789	2.766	3.3	21.1
2 11	8 8.08	+21 7.9	1.824	2.764	7.6	21.4
2 21	7 59.75	+21 21.5	1.886	2.762	11.5	21.6
3 2	7 53.99	+21 26.9	1.970	2.759	14.8	21.8

456638 2007 QN_{6} 1 24.9 103°.67 2°.5/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.24	+25 8.8	1.745	2.576	14.3	21.7
1 2	8 51.52	+25 31.0	1.691	2.598	10.4	21.5
1 12	8 41.26	+25 52.9	1.662	2.620	6.2	21.3
1 22	8 29.50	+26 8.9	1.661	2.641	2.7	21.1
2 1	8 17.61	+26 14.8	1.690	2.661	4.6	21.3
2 11	8 6.98	+26 8.7	1.748	2.681	8.5	21.5
2 21	7 58.65	+25 51.5	1.832	2.700	12.2	21.8
3 2	7 53.24	+25 25.4	1.938	2.719	15.3	22.1

347346 2012 QD_{13} 1 24.9 111°.15 3°.5/22.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.20	+29 56.5	2.446	3.276	10.7	21.0
1 2	8 46.04	+30 30.3	2.381	3.284	8.0	20.8
1 12	8 37.98	+31 1.0	2.342	3.293	5.2	20.7
1 22	8 28.76	+31 24.1	2.332	3.301	3.6	20.6
2 1	8 19.30	+31 35.9	2.352	3.309	4.8	20.7
2 11	8 10.60	+31 34.9	2.402	3.317	7.5	20.8
2 21	8 3.47	+31 21.4	2.478	3.325	10.2	21.0
3 2	7 58.49	+30 57.3	2.577	3.333	12.5	21.2

397959 2008 YT_{98} 1 24.9 86°.80 0°.8/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.15	+17 53.5	1.519	2.356	15.7	21.1
1 2	8 48.15	+18 45.5	1.464	2.375	11.4	20.9
1 12	8 39.49	+19 47.2	1.433	2.393	6.6	20.7
1 22	8 29.14	+20 52.0	1.429	2.412	1.6	20.4
2 1	8 18.47	+21 52.4	1.453	2.430	3.9	20.6
2 11	8 8.94	+22 42.8	1.505	2.447	8.7	20.9
2 21	8 1.66	+23 20.1	1.582	2.465	12.9	21.2
3 2	7 57.36	+23 44.0	1.680	2.482	16.4	21.5

114849 2003 PY_{4} 1 24.9 162°.08 1°.1/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.87	+20 26.8	2.033	2.858	12.8	20.9
1 2	8 48.26	+21 1.0	1.960	2.865	9.3	20.7
1 12	8 39.42	+21 40.2	1.912	2.871	5.4	20.4
1 22	8 29.13	+22 19.6	1.894	2.876	1.5	20.2
2 1	8 18.46	+22 54.5	1.906	2.881	3.5	20.3
2 11	8 8.58	+23 21.2	1.947	2.884	7.5	20.6
2 21	8 0.48	+23 38.2	2.016	2.888	11.1	20.8
3 2	7 54.83	+23 45.4	2.108	2.890	14.2	21.0

299827 2006 ST_{170} 1 24.9 297°.18 0°.5/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.77	+19 27.4	2.269	3.097	11.5	20.8
1 2	8 43.70	+19 46.8	2.183	3.090	8.4	20.6
1 12	8 36.74	+20 11.4	2.123	3.082	4.9	20.4
1 22	8 28.51	+20 37.8	2.091	3.074	1.2	20.1
2 1	8 19.88	+21 2.5	2.089	3.066	2.9	20.2
2 11	8 11.83	+21 22.6	2.117	3.058	6.6	20.5
2 21	8 5.19	+21 36.1	2.171	3.051	10.1	20.7
3 2	8 0.60	+21 42.3	2.250	3.043	13.0	20.8

35966 1999 LJ_{13} 1 24.9 257°.74 0°.6/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 51.18	+14 30.2	1.590	2.422	15.4	18.9
1 2	8 46.16	+15 15.4	1.510	2.416	11.4	18.6
1 12	8 38.50	+16 15.4	1.453	2.411	6.8	18.3
1 22	8 28.97	+17 25.1	1.423	2.405	1.8	18.0
2 1	8 18.77	+18 37.6	1.421	2.399	3.6	18.1
2 11	8 9.34	+19 45.8	1.447	2.393	8.6	18.4
2 21	8 1.91	+20 44.4	1.498	2.387	13.1	18.6
3 2	7 57.33	+21 30.6	1.571	2.381	17.0	18.9

337401 2001 QM_{189} 1 24.9 179°.05 3°.8/27.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.43	+ 5 30.8	2.831	3.605	10.9	20.7
1 2	8 43.72	+ 5 4.6	2.744	3.606	8.6	20.6
1 12	8 36.55	+ 4 48.9	2.683	3.607	6.2	20.4
1 22	8 28.45	+ 4 43.8	2.650	3.607	4.2	20.3
2 1	8 20.07	+ 4 48.4	2.647	3.607	4.1	20.3
2 11	8 12.14	+ 5 1.0	2.675	3.607	6.0	20.4
2 21	8 5.31	+ 5 19.1	2.732	3.606	8.4	20.5
3 2	8 0.08	+ 5 40.2	2.814	3.605	10.8	20.7

179007 2001 RE_{37} 1 24.9 179°.87 2°.9/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.73	+ 8 26.8	2.296	3.089	12.5	21.5
1 2	8 45.00	+ 8 37.0	2.211	3.091	9.6	21.3
1 12	8 37.44	+ 8 59.9	2.152	3.092	6.4	21.1
1 22	8 28.67	+ 9 34.0	2.121	3.092	3.5	20.9
2 1	8 19.53	+10 16.4	2.120	3.092	3.5	20.9
2 11	8 10.94	+11 3.3	2.149	3.091	6.5	21.1
2 21	8 3.72	+11 50.7	2.206	3.090	9.8	21.3
3 2	7 58.49	+12 35.5	2.288	3.088	12.7	21.5

327073 2004 UD_{5} 1 24.9 138°.80 3°.9/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.00	+ 3 43.8	2.454	3.228	12.4	21.4
1 2	8 43.57	+ 3 59.7	2.377	3.239	9.8	21.3
1 12	8 36.53	+ 4 31.0	2.325	3.250	6.9	21.1
1 22	8 28.45	+ 5 16.3	2.301	3.261	4.5	21.0
2 1	8 20.09	+ 6 12.7	2.306	3.271	4.2	21.0
2 11	8 12.29	+ 7 16.1	2.343	3.280	6.3	21.1
2 21	8 5.74	+ 8 22.0	2.407	3.289	9.1	21.3
3 2	8 0.99	+ 9 26.2	2.497	3.298	11.7	21.5

136429 2005 EU_{13} 1 24.9 192°.39 4°.0/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.50	+ 4 50.0	2.035	2.822	14.2	20.4
1 2	8 45.08	+ 5 14.8	1.948	2.820	11.1	20.2
1 12	8 37.61	+ 5 58.3	1.885	2.819	7.7	20.0
1 22	8 28.74	+ 6 58.5	1.850	2.816	4.7	19.8
2 1	8 19.38	+ 8 11.7	1.844	2.813	4.4	19.8
2 11	8 10.59	+ 9 32.1	1.867	2.810	7.3	19.9
2 21	8 3.31	+10 53.6	1.919	2.806	10.8	20.1
3 2	7 58.24	+12 10.9	1.995	2.801	14.0	20.3

70196 1999 RB_{16} 1 24.9 173°.16 2°.4/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.24	+10 39.3	1.964	2.772	13.8	20.8
1 2	8 46.37	+10 53.6	1.885	2.775	10.5	20.6
1 12	8 38.35	+11 21.1	1.830	2.777	6.7	20.3
1 22	8 28.90	+11 59.4	1.802	2.779	3.1	20.1
2 1	8 19.02	+12 44.7	1.804	2.780	3.5	20.1
2 11	8 9.83	+13 32.4	1.836	2.781	7.2	20.4
2 21	8 2.28	+14 18.4	1.894	2.781	11.0	20.6
3 2	7 57.08	+14 59.5	1.977	2.780	14.2	20.8

247266 2001 SP_{26} 1 24.9 188°.21 3°.8/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.76	+ 1 58.2	3.273	4.027	10.0	22.1
1 2	8 41.66	+ 2 1.3	3.180	4.026	8.0	22.0
1 12	8 35.32	+ 2 16.6	3.112	4.024	5.9	21.9
1 22	8 28.17	+ 2 43.5	3.073	4.022	4.2	21.7
2 1	8 20.76	+ 3 20.7	3.064	4.019	4.0	21.7
2 11	8 13.70	+ 4 5.6	3.087	4.016	5.4	21.8
2 21	8 7.53	+ 4 55.2	3.138	4.012	7.5	21.9
3 2	8 2.69	+ 5 46.4	3.216	4.007	9.5	22.1

100028 von Canstein 1 24.9 170°.85 4°.3/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.18	+ 1 42.1	2.975	3.732	10.8	20.6
1 2	8 42.05	+ 1 32.5	2.889	3.735	8.7	20.5
1 12	8 35.57	+ 1 35.9	2.827	3.738	6.5	20.3
1 22	8 28.24	+ 1 52.0	2.794	3.740	4.8	20.2
2 1	8 20.65	+ 2 19.7	2.790	3.742	4.5	20.2
2 11	8 13.47	+ 2 56.5	2.817	3.744	6.0	20.3
2 21	8 7.28	+ 3 39.2	2.872	3.745	8.1	20.4
3 2	8 2.57	+ 4 24.6	2.952	3.746	10.2	20.6

394429 2007 LF_{7} 1 24.9 113°.03 2°.9/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.79	+10 2.6	1.643	2.456	15.8	21.6
1 2	8 47.70	+10 15.1	1.579	2.471	12.0	21.4
1 12	8 39.17	+10 43.4	1.538	2.486	7.7	21.2
1 22	8 29.10	+11 24.4	1.524	2.500	3.6	21.0
2 1	8 18.68	+12 13.7	1.538	2.514	4.0	21.0
2 11	8 9.23	+13 5.6	1.581	2.527	8.0	21.3
2 21	8 1.80	+13 55.2	1.649	2.540	12.1	21.5
3 2	7 57.07	+14 39.0	1.741	2.552	15.5	21.8

297496 2000 WT_3 1 24.9 102°.02 4°.0/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 57.19	+ 9 4.9	1.777	2.576	15.4	20.4
1 2	8 49.85	+ 8 34.7	1.719	2.601	11.8	20.2
1 12	8 40.25	+ 8 17.9	1.685	2.625	7.9	20.0
1 22	8 29.33	+ 8 13.9	1.678	2.648	4.5	19.8
2 1	8 18.23	+ 8 20.7	1.701	2.671	4.7	19.9
2 11	8 8.20	+ 8 35.1	1.753	2.693	7.9	20.1
2 21	8 0.17	+ 8 53.8	1.832	2.714	11.5	20.4
3 2	7 54.75	+ 9 13.4	1.933	2.735	14.6	20.6

275074 2009 UK_{140} 1 24.9 230°.23 4°.5/22.8 18

12 23	8 56.97	+26 38.7	1.532	2.375	15.3	20.6
1 2	8 50.79	+27 45.5	1.455	2.367	11.4	20.4
1 12	8 41.39	+28 55.3	1.401	2.358	7.2	20.1
1 22	8 29.70	+29 58.7	1.375	2.349	4.5	19.9
2 1	8 17.18	+30 46.8	1.376	2.339	6.6	20.0
2 11	8 5.62	+31 14.3	1.404	2.329	10.9	20.3
2 21	7 56.53	+31 20.6	1.456	2.318	15.1	20.5
3 2	7 50.89	+31 8.5	1.527	2.307	18.8	20.7

57091 2001 OL_{44} 1 24.9 73°.32 7°.6/29.6 18

12 23	8 49.13	− 2 6.4	1.796	2.561	16.6	19.6
1 2	8 44.18	− 2 29.9	1.724	2.569	13.7	19.4
1 12	8 37.10	− 2 29.8	1.674	2.578	10.7	19.3
1 22	8 28.63	− 2 5.0	1.648	2.586	8.3	19.1
2 1	8 19.77	− 1 17.0	1.649	2.594	7.7	19.1
2 11	8 11.65	− 0 10.9	1.676	2.603	9.3	19.2
2 21	8 5.22	+ 1 6.4	1.729	2.611	12.1	19.4
3 2	8 1.13	+ 2 27.6	1.804	2.619	14.9	19.6

190057 Nakagawa 1 24.9 201°.13 0°.8/25.5 18

12 23	8 51.08	+15 38.6	2.259	3.076	11.9	21.1
1 2	8 45.34	+15 47.6	2.175	3.073	8.9	20.9
1 12	8 37.68	+16 3.9	2.116	3.070	5.3	20.7
1 22	8 28.76	+16 25.1	2.085	3.067	1.6	20.4
2 1	8 19.46	+16 48.1	2.085	3.063	2.7	20.5
2 11	8 10.75	+17 10.0	2.115	3.059	6.5	20.7
2 21	8 3.48	+17 28.4	2.172	3.054	10.0	21.0
3 2	7 58.30	+17 42.0	2.254	3.049	12.9	21.1

208381 2001 SX_{90} 1 24.9 5°.46 2°.9/23.5 18

12 23	8 51.95	+26 58.4	1.980	2.818	12.5	19.8
1 2	8 46.24	+27 17.6	1.908	2.818	9.2	19.6
1 12	8 38.29	+27 35.7	1.862	2.819	5.7	19.4
1 22	8 28.90	+27 47.9	1.843	2.820	3.0	19.2
2 1	8 19.18	+27 50.4	1.853	2.821	4.6	19.3
2 11	8 10.32	+27 41.1	1.892	2.823	8.1	19.5
2 21	8 3.30	+27 20.4	1.956	2.825	11.5	19.7
3 2	7 58.78	+26 50.2	2.043	2.827	14.5	19.9

178878 2001 NA_{16} 1 24.9 214°.53 1°.2/25.8 18

12 23	8 50.48	+12 21.9	2.136	2.948	12.7	20.7
1 2	8 45.08	+13 8.3	2.047	2.941	9.5	20.5
1 12	8 37.63	+14 7.6	1.982	2.935	5.8	20.3
1 22	8 28.77	+15 16.4	1.947	2.927	2.0	20.0
2 1	8 19.39	+16 29.5	1.942	2.919	2.9	20.1
2 11	8 10.52	+17 41.3	1.967	2.911	6.9	20.3
2 21	8 3.10	+18 47.2	2.020	2.902	10.6	20.5
3 2	7 57.85	+19 44.1	2.097	2.893	13.8	20.7

118764 2000 QC_{224} 1 24.9 40°.43 0°.9/25.4 18

12 23	8 51.30	+16 6.1	1.737	2.567	14.3	19.5
1 2	8 45.89	+16 11.2	1.666	2.572	10.6	19.2
1 12	8 38.14	+16 25.2	1.620	2.577	6.3	19.0
1 22	8 28.89	+16 44.9	1.600	2.582	1.8	18.7
2 1	8 19.25	+17 6.6	1.608	2.587	3.2	18.8
2 11	8 10.48	+17 26.6	1.645	2.592	7.7	19.1
2 21	8 3.59	+17 42.4	1.708	2.598	11.7	19.3
3 2	7 59.29	+17 52.4	1.792	2.603	15.2	19.6

46617 1994 BD_1 1 24.9 53°.52 5°.4/23.2 18

12 23	8 58.60	+28 40.8	1.139	1.997	18.3	17.9
1 2	8 52.24	+29 27.1	1.093	2.012	13.6	17.7
1 12	8 42.18	+30 10.4	1.069	2.027	8.7	17.5
1 22	8 29.83	+30 40.4	1.068	2.042	5.5	17.3
2 1	8 17.21	+30 49.4	1.093	2.058	7.6	17.5
2 11	8 6.44	+30 35.7	1.143	2.075	12.1	17.8
2 21	7 58.95	+30 2.4	1.214	2.091	16.4	18.1
3 2	7 55.45	+29 15.0	1.304	2.108	20.1	18.4

403269 2008 YB_{154} 1 24.9 221°.43 1°.6/24.3 18

12 23	8 56.33	+22 48.1	1.744	2.578	14.1	21.2
1 2	8 49.76	+23 1.4	1.664	2.573	10.4	20.9
1 12	8 40.51	+23 17.3	1.608	2.567	6.1	20.7
1 22	8 29.46	+23 31.0	1.580	2.561	2.0	20.4
2 1	8 17.88	+23 37.9	1.581	2.555	4.1	20.5
2 11	8 7.21	+23 35.4	1.610	2.549	8.6	20.8
2 21	7 58.65	+23 23.1	1.665	2.542	12.8	21.0
3 2	7 52.99	+23 2.1	1.742	2.535	16.3	21.2

18077 Dianeingrao 1 24.9 216°.72 4°.5/22.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 58.00	+28 52.1	1.763	2.598	13.9	17.6
1 2	8 51.17	+29 42.5	1.685	2.591	10.5	17.4
1 12	8 41.43	+30 31.8	1.631	2.584	6.8	17.1
1 22	8 29.70	+31 12.3	1.605	2.576	4.5	17.0
2 1	8 17.32	+31 37.1	1.608	2.567	6.3	17.1
2 11	8 5.88	+31 42.8	1.638	2.558	10.0	17.3
2 21	7 56.69	+31 30.2	1.694	2.548	13.8	17.5
3 2	7 50.64	+31 2.4	1.771	2.538	17.0	17.7

45259 2000 AF_1 1 24.9 145°.64 0°.3/25.2 18 R

12 23	8 49.59	+16 20.1	2.384	3.202	11.3	19.5
1 2	8 44.13	+16 45.1	2.308	3.208	8.3	19.3
1 12	8 36.92	+17 17.0	2.258	3.214	4.9	19.1
1 22	8 28.59	+17 53.0	2.237	3.220	1.3	18.9
2 1	8 19.95	+18 29.4	2.247	3.225	2.6	19.0
2 11	8 11.91	+19 2.9	2.287	3.230	6.1	19.2
2 21	8 5.23	+19 31.3	2.355	3.234	9.4	19.4
3 2	8 0.48	+19 53.0	2.446	3.239	12.1	19.6

459275 2012 FV_{74} 1 24.9 280°.34 5°.1/22.7 18

12 23	8 57.08	+32 6.3	1.822	2.657	13.6	20.9
1 2	8 50.45	+32 37.0	1.740	2.644	10.3	20.7
1 12	8 40.98	+33 2.5	1.683	2.631	7.1	20.5
1 22	8 29.58	+33 15.8	1.652	2.618	5.2	20.3
2 1	8 17.61	+33 11.3	1.650	2.605	6.7	20.4
2 11	8 6.61	+32 47.3	1.675	2.592	10.1	20.5
2 21	7 57.86	+32 5.7	1.726	2.579	13.6	20.7
3 2	7 52.17	+31 10.6	1.798	2.566	16.8	20.9

206859 2004 FC_{55} 1 24.9 300°.18 0°.2/25.1 18

12 23	8 47.95	+16 46.0	2.184	3.010	11.9	20.8
1 2	8 43.20	+17 13.9	2.096	3.001	8.8	20.6
1 12	8 36.52	+17 49.8	2.033	2.991	5.2	20.4
1 22	8 28.52	+18 30.6	1.999	2.982	1.3	20.1
2 1	8 20.07	+19 12.1	1.994	2.972	2.8	20.2
2 11	8 12.16	+19 50.4	2.019	2.963	6.7	20.4
2 21	8 5.66	+20 22.6	2.071	2.954	10.3	20.6
3 2	8 1.25	+20 47.1	2.146	2.945	13.4	20.8

324431 2006 SY_{403} 1 24.9 63°.94 3°.4/26.8 18

12 23	8 50.85	+ 9 8.7	1.613	2.430	15.9	21.4
1 2	8 45.60	+ 9 12.9	1.550	2.442	12.2	21.2
1 12	8 37.98	+ 9 33.8	1.508	2.455	8.0	21.0
1 22	8 28.85	+10 9.0	1.493	2.467	4.1	20.8
2 1	8 19.38	+10 54.4	1.506	2.480	4.3	20.8
2 11	8 10.83	+11 44.5	1.546	2.493	8.0	21.1
2 21	8 4.23	+12 34.2	1.611	2.506	12.0	21.4
3 2	8 0.26	+13 19.3	1.699	2.519	15.5	21.6

178141 2006 TP_{71} 1 24.9 173°.10 0°.6/25.3 18

12 23	8 52.49	+16 23.8	1.811	2.638	14.0	20.6
1 2	8 46.75	+16 36.9	1.734	2.639	10.4	20.4
1 12	8 38.66	+16 58.9	1.682	2.639	6.2	20.1
1 22	8 29.03	+17 26.1	1.658	2.640	1.7	19.8
2 1	8 18.95	+17 54.5	1.662	2.640	3.2	19.9
2 11	8 9.67	+18 20.1	1.695	2.641	7.7	20.2
2 21	8 2.22	+18 40.3	1.754	2.641	11.7	20.4
3 2	7 57.35	+18 53.8	1.836	2.641	15.1	20.7

327309 2005 UV_{13} 1 24.9 181°.84 2°.1/26.1 18

12 23	8 50.61	+12 6.9	1.946	2.762	13.6	21.6
1 2	8 45.22	+12 14.4	1.867	2.762	10.3	21.4
1 12	8 37.72	+12 33.6	1.812	2.762	6.5	21.2
1 22	8 28.81	+13 2.3	1.784	2.762	2.8	21.0
2 1	8 19.47	+13 37.0	1.785	2.762	3.3	21.0
2 11	8 10.82	+14 13.5	1.815	2.761	7.2	21.2
2 21	8 3.80	+14 48.4	1.872	2.761	10.9	21.5
3 2	7 59.09	+15 19.0	1.952	2.760	14.2	21.7

261945 2006 OF_{16} 1 24.9 184°.85 2°.3/23.5 18

12 23	8 53.71	+23 2.7	2.032	2.863	12.5	20.9
1 2	8 47.58	+24 0.1	1.956	2.863	9.2	20.7
1 12	8 39.15	+25 1.7	1.905	2.863	5.4	20.4
1 22	8 29.16	+26 1.4	1.883	2.862	2.4	20.2
2 1	8 18.68	+26 53.2	1.891	2.861	4.3	20.4
2 11	8 8.91	+27 32.8	1.929	2.859	8.1	20.6
2 21	8 0.88	+27 58.5	1.993	2.856	11.6	20.8
3 2	7 55.35	+28 10.7	2.080	2.853	14.6	21.0

241794 2001 QK_{61} 1 24.9 115°.55 2°.7/23.7 18

12 23	8 55.91	+28 32.6	2.509	3.330	10.7	20.4
1 2	8 48.57	+28 37.4	2.442	3.343	7.9	20.2
1 12	8 39.41	+28 39.0	2.403	3.356	4.9	20.0
1 22	8 29.17	+28 33.7	2.393	3.368	2.7	19.9
2 1	8 18.79	+28 19.2	2.415	3.380	4.0	20.0
2 11	8 9.27	+27 54.8	2.467	3.392	6.8	20.2
2 21	8 1.38	+27 21.7	2.548	3.403	9.7	20.4
3 2	7 55.65	+26 41.6	2.652	3.415	12.1	20.6

145571 2006 OY_{11} 1 24.9 145°.38 2°.7/27.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 47.02	+ 6 1.9	3.109	3.885	10.0	21.1
1 2	8 41.88	+ 6 25.3	3.029	3.896	7.7	20.9
1 12	8 35.47	+ 6 59.8	2.975	3.907	5.3	20.8
1 22	8 28.26	+ 7 43.9	2.951	3.917	3.2	20.6
2 1	8 20.84	+ 8 35.2	2.958	3.926	3.0	20.6
2 11	8 13.82	+ 9 30.6	2.996	3.936	5.0	20.8
2 21	8 7.78	+10 26.7	3.064	3.944	7.4	20.9
3 2	8 3.14	+11 20.7	3.158	3.952	9.6	21.1

54588 2000 QE_{192} 1 24.9 286°.00 7°.7/19.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 56.25	+42 31.1	2.322	3.135	11.8	18.7
1 2	8 49.58	+43 28.7	2.252	3.126	9.7	18.6
1 12	8 40.36	+44 15.0	2.206	3.116	8.1	18.5
1 22	8 29.45	+44 43.0	2.187	3.107	7.7	18.4
2 1	8 18.08	+44 47.8	2.196	3.097	8.7	18.5
2 11	8 7.65	+44 28.0	2.230	3.088	10.7	18.6
2 21	7 59.27	+43 46.4	2.289	3.079	12.9	18.7
3 2	7 53.69	+42 47.4	2.367	3.069	14.9	18.8

90263 2003 CO 1 24.9 270°.13 3°.9/27.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.11	+ 6 14.1	2.533	3.318	11.7	20.0
1 2	8 43.06	+ 5 53.1	2.434	3.303	9.3	19.8
1 12	8 36.35	+ 5 43.6	2.359	3.288	6.6	19.6
1 22	8 28.50	+ 5 45.5	2.312	3.273	4.4	19.5
2 1	8 20.25	+ 5 58.1	2.294	3.258	4.3	19.4
2 11	8 12.40	+ 6 18.9	2.306	3.243	6.5	19.6
2 21	8 5.70	+ 6 45.3	2.346	3.227	9.3	19.7
3 2	8 0.74	+ 7 14.0	2.411	3.212	12.0	19.9

396803 2004 PS_{46} 1 24.9 116°.53 2°.7/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.87	+ 9 53.4	1.709	2.519	15.5	21.2
1 2	8 47.70	+10 14.3	1.645	2.536	11.7	21.0
1 12	8 39.18	+10 50.8	1.605	2.552	7.5	20.8
1 22	8 29.17	+11 39.8	1.591	2.568	3.5	20.6
2 1	8 18.82	+12 36.3	1.607	2.583	3.8	20.6
2 11	8 9.41	+13 34.5	1.651	2.597	7.8	20.9
2 21	8 1.94	+14 29.4	1.722	2.611	11.7	21.2
3 2	7 57.10	+15 17.6	1.816	2.625	15.1	21.4

162798 2000 YV_{79} 1 24.9 37°.44 0°.8/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.34	+17 55.1	1.223	2.076	17.6	19.2
1 2	8 46.62	+18 40.7	1.171	2.090	12.9	19.0
1 12	8 38.84	+19 38.1	1.142	2.104	7.4	18.7
1 22	8 29.11	+20 39.9	1.136	2.119	1.7	18.4
2 1	8 19.00	+21 37.8	1.157	2.135	4.4	18.6
2 11	8 10.19	+22 25.1	1.203	2.151	9.8	19.0
2 21	8 3.98	+22 58.3	1.272	2.168	14.5	19.3
3 2	8 1.10	+23 16.8	1.362	2.185	18.4	19.6

451451 2011 SH_{205} 1 24.9 47°.67 1°.4/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.18	+19 34.7	1.249	2.101	17.4	20.8
1 2	8 47.85	+20 21.3	1.202	2.120	12.7	20.6
1 12	8 39.49	+21 16.9	1.177	2.140	7.3	20.3
1 22	8 29.25	+22 13.6	1.177	2.160	2.0	20.1
2 1	8 18.72	+23 3.6	1.204	2.180	4.6	20.3
2 11	8 9.60	+23 41.0	1.256	2.201	9.8	20.6
2 21	8 3.11	+24 3.8	1.332	2.223	14.3	21.0
3 2	7 59.96	+24 12.5	1.428	2.245	18.0	21.3

60292 1999 XO_{143} 1 24.9 356°.31 9°.8/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 47.24	+ 3 24.7	0.991	1.827	22.2	17.7
1 2	8 44.18	+ 2 1.7	0.928	1.821	18.2	17.4
1 12	8 37.74	+ 1 4.8	0.882	1.816	13.9	17.1
1 22	8 28.92	+ 0 39.4	0.856	1.813	10.5	16.9
2 1	8 19.33	+ 0 47.3	0.851	1.812	10.1	16.9
2 11	8 10.89	+ 1 23.9	0.868	1.813	13.1	17.0
2 21	8 5.16	+ 2 19.9	0.904	1.815	17.3	17.3
3 2	8 3.15	+ 3 24.9	0.958	1.818	21.5	17.6

346930 2010 AA_{35} 1 25.0 41°.41 1°.6/25.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.16	+13 27.8	1.031	1.886	20.1	20.4
1 2	8 47.43	+13 54.5	0.988	1.904	14.9	20.2
1 12	8 39.37	+14 40.0	0.964	1.924	9.0	19.9
1 22	8 29.24	+15 38.0	0.963	1.944	2.9	19.7
2 1	8 18.80	+16 40.0	0.986	1.966	4.3	19.8
2 11	8 9.93	+17 37.4	1.034	1.987	10.1	20.2
2 21	8 3.96	+18 24.7	1.104	2.010	15.2	20.6
3 2	8 1.61	+18 59.1	1.193	2.033	19.4	20.9

278783 2008 SS_{183} 1 25.0 177°.95 1°.2/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 50.45	+21 1.1	2.207	3.036	11.7	21.3
1 2	8 44.98	+21 34.5	2.130	3.037	8.5	21.1
1 12	8 37.53	+22 12.3	2.078	3.037	5.0	20.9
1 22	8 28.80	+22 50.3	2.056	3.038	1.5	20.7
2 1	8 19.69	+23 24.3	2.063	3.038	3.3	20.8
2 11	8 11.23	+23 50.9	2.100	3.038	7.0	21.0
2 21	8 4.29	+24 8.5	2.164	3.037	10.4	21.3
3 2	7 59.51	+24 16.6	2.251	3.037	13.3	21.4

241803 2001 QG_{274} 1 25.0 148°.57 1°.4/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 49.51	+21 56.8	2.585	3.411	10.3	21.1
1 2	8 44.03	+22 39.2	2.512	3.417	7.5	20.9
1 12	8 36.87	+23 24.8	2.465	3.423	4.4	20.7
1 22	8 28.63	+24 9.6	2.448	3.429	1.6	20.5
2 1	8 20.09	+24 49.7	2.462	3.434	3.1	20.7
2 11	8 12.11	+25 22.1	2.506	3.439	6.3	20.9
2 21	8 5.43	+25 45.3	2.578	3.444	9.2	21.1
3 2	8 0.61	+25 58.9	2.674	3.448	11.7	21.2

432049 2008 XS_{36} 1 25.0 47°.87 5°.1/21.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.57	+31 27.1	2.069	2.907	12.1	21.1
1 2	8 46.09	+32 36.7	2.005	2.911	9.1	20.9
1 12	8 38.30	+33 43.3	1.967	2.914	6.3	20.8
1 22	8 29.00	+34 39.8	1.957	2.918	5.1	20.7
2 1	8 19.28	+35 20.4	1.976	2.923	6.5	20.8
2 11	8 10.37	+35 42.0	2.022	2.927	9.3	21.0
2 21	8 3.29	+35 44.9	2.093	2.931	12.2	21.2
3 2	7 58.73	+35 31.5	2.185	2.935	14.7	21.4

108301 2001 JK 1 25.0 188°.58 4°.0/22.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.03	+29 56.3	2.314	3.146	11.2	19.7
1 2	8 46.20	+30 50.3	2.242	3.146	8.3	19.5
1 12	8 38.28	+31 42.4	2.195	3.145	5.6	19.3
1 22	8 29.00	+32 26.7	2.178	3.145	4.0	19.2
2 1	8 19.31	+32 58.5	2.190	3.144	5.4	19.3
2 11	8 10.32	+33 15.0	2.231	3.142	8.2	19.5
2 21	8 2.94	+33 16.2	2.298	3.141	11.0	19.7
3 2	7 57.84	+33 3.7	2.387	3.139	13.5	19.9

487958 2015 TS_{281} 1 25.0 221°.21 0°.9/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 56.11	+19 59.3	1.445	2.285	16.2	21.8
1 2	8 50.03	+20 16.3	1.371	2.282	11.9	21.5
1 12	8 40.89	+20 40.3	1.319	2.279	7.0	21.2
1 22	8 29.66	+21 6.1	1.294	2.276	1.7	20.9
2 1	8 17.79	+21 27.9	1.296	2.273	4.2	21.0
2 11	8 6.98	+21 41.5	1.325	2.269	9.5	21.3
2 21	7 58.60	+21 45.3	1.378	2.265	14.2	21.6
3 2	7 53.53	+21 39.5	1.453	2.261	18.2	21.8

405076 2001 UP_{72} 1 25.0 67°.95 1°.5/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.50	+18 46.4	1.677	2.515	14.4	20.4
1 2	8 46.13	+20 0.0	1.621	2.533	10.5	20.2
1 12	8 38.34	+21 22.4	1.590	2.551	6.0	20.0
1 22	8 29.02	+22 46.4	1.587	2.569	1.8	19.8
2 1	8 19.34	+24 4.2	1.613	2.587	4.0	20.0
2 11	8 10.61	+25 9.5	1.667	2.606	8.4	20.3
2 21	8 3.88	+25 59.4	1.747	2.624	12.2	20.5
3 2	7 59.84	+26 33.4	1.849	2.642	15.4	20.8

489581 2007 TB_{100} 1 25.0 73°.41 0°.2/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.80	+16 47.0	2.187	3.010	12.0	21.8
1 2	8 44.33	+17 14.7	2.128	3.031	8.8	21.6
1 12	8 37.05	+17 49.3	2.094	3.051	5.1	21.5
1 22	8 28.69	+18 27.4	2.089	3.071	1.2	21.2
2 1	8 20.12	+19 4.9	2.113	3.091	2.7	21.4
2 11	8 12.29	+19 38.5	2.168	3.111	6.4	21.6
2 21	8 5.98	+20 6.0	2.250	3.131	9.7	21.9
3 2	8 1.72	+20 26.0	2.355	3.151	12.4	22.1

285585 2000 QU_{70} 1 25.0 144°.54 2°.2/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.91	+ 9 38.6	1.926	2.730	14.2	20.9
1 2	8 46.90	+10 20.9	1.853	2.741	10.8	20.7
1 12	8 38.73	+11 18.8	1.805	2.752	6.8	20.5
1 22	8 29.13	+12 28.6	1.784	2.761	3.0	20.3
2 1	8 19.12	+13 44.7	1.794	2.771	3.3	20.3
2 11	8 9.86	+15 1.0	1.834	2.779	7.2	20.6
2 21	8 2.29	+16 12.1	1.902	2.787	11.0	20.8
3 2	7 57.10	+17 14.5	1.993	2.794	14.2	21.0

125861 2001 XE_{190} 1 25.0 30°.97 0°.7/25.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 49.50	+14 46.2	1.686	2.518	14.6	19.8
1 2	8 44.71	+15 19.7	1.616	2.522	10.8	19.5
1 12	8 37.56	+16 5.4	1.570	2.527	6.5	19.3
1 22	8 28.86	+16 58.9	1.550	2.532	1.8	19.0
2 1	8 19.72	+17 54.7	1.558	2.537	3.3	19.1
2 11	8 11.41	+18 47.0	1.595	2.543	7.8	19.4
2 21	8 4.95	+19 31.9	1.657	2.548	12.0	19.7
3 2	8 1.07	+20 6.9	1.742	2.555	15.4	19.9

321962 2010 UK_{16} 1 25.0 97°.74 1°.4/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 52.89	+13 9.0	1.922	2.737	13.8	21.3
1 2	8 46.74	+13 34.4	1.863	2.759	10.2	21.1
1 12	8 38.53	+14 10.9	1.829	2.781	6.2	20.9
1 22	8 29.06	+14 54.7	1.823	2.803	2.2	20.7
2 1	8 19.36	+15 41.4	1.847	2.824	3.0	20.8
2 11	8 10.54	+16 26.5	1.900	2.845	7.0	21.1
2 21	8 3.47	+17 6.6	1.980	2.865	10.6	21.3
3 2	7 58.76	+17 39.6	2.084	2.885	13.7	21.6