333620 2007 TP_{393} 1 29.9 60.°20 1.°3/30.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.56	+14 55.3	2.073	2.842	14.5	20.4
1 2	9 11.23	+14 30.1	2.003	2.864	11.4	20.2
1 12	9 3.68	+14 12.5	1.956	2.885	7.8	20.0
1 22	8 54.58	+14 1.0	1.936	2.907	3.9	19.8
2 1	8 44.83	+13 53.7	1.945	2.928	1.4	19.7
2 11	8 35.48	+13 48.2	1.984	2.950	4.8	19.9
2 21	8 27.47	+13 42.7	2.053	2.972	8.4	20.2
3 2	8 21.47	+13 35.9	2.146	2.994	11.6	20.5

203925 2003 OK_{27} 1 29.9 232.°22 0.°6/30.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.25	+14 25.6	1.973	2.744	15.1	21.4
1 2	9 11.63	+14 38.8	1.869	2.732	12.0	21.2
1 12	9 4.42	+15 3.4	1.787	2.719	8.2	20.9
1 22	8 55.13	+15 36.7	1.732	2.705	3.9	20.6
2 1	8 44.64	+16 14.5	1.706	2.691	1.0	20.4
2 11	8 34.13	+16 52.0	1.710	2.676	5.5	20.6
2 21	8 24.78	+17 25.0	1.742	2.660	9.8	20.9
3 2	8 17.58	+17 50.8	1.799	2.643	13.7	21.1

372985 2011 CT_{68} 1 29.9 267.°31 1.°0/30.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.03	+12 19.2	2.015	2.790	14.7	21.3
1 2	9 7.41	+12 44.0	1.920	2.784	11.7	21.1
1 12	9 1.47	+13 22.4	1.848	2.779	8.0	20.8
1 22	8 53.74	+14 11.7	1.801	2.773	4.0	20.6
2 1	8 45.01	+15 7.5	1.783	2.768	1.2	20.3
2 11	8 36.34	+16 4.4	1.795	2.762	5.1	20.6
2 21	8 28.77	+16 57.5	1.835	2.756	9.1	20.8
3 2	8 23.13	+17 43.0	1.899	2.751	12.7	21.0

257797 2000 EX_{22} 1 29.9 199.°39 0.°4/29.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.14	+17 13.0	1.930	2.712	15.0	21.5
1 2	9 10.69	+17 31.6	1.840	2.711	11.7	21.3
1 12	9 3.71	+17 59.6	1.773	2.709	7.9	21.1
1 22	8 54.76	+18 33.2	1.732	2.707	3.6	20.8
2 1	8 44.77	+19 7.7	1.720	2.704	1.1	20.6
2 11	8 34.93	+19 38.4	1.737	2.702	5.5	20.9
2 21	8 26.37	+20 1.8	1.783	2.699	9.7	21.1
3 2	8 19.99	+20 16.1	1.852	2.695	13.4	21.4

373865 2003 SP_{9} 1 29.9 121.°73 0.°6/29.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.65	+18 55.3	2.185	2.965	13.5	21.5
1 2	9 9.91	+19 4.5	2.101	2.970	10.5	21.3
1 12	9 2.94	+19 19.8	2.040	2.976	7.0	21.1
1 22	8 54.32	+19 38.0	2.006	2.981	3.2	20.9
2 1	8 44.89	+19 55.3	2.002	2.986	1.2	20.8
2 11	8 35.70	+20 8.5	2.028	2.991	5.0	21.0
2 21	8 27.69	+20 15.2	2.082	2.996	8.7	21.3
3 2	8 21.62	+20 14.8	2.162	3.001	11.9	21.5

363173 2001 TQ_{87} 1 29.9 102.°10 6.°0/ 3.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.43	− 1 32.0	2.192	2.894	15.7	21.4
1 2	9 9.49	− 1 55.7	2.120	2.919	13.2	21.2
1 12	9 2.52	− 2 0.3	2.068	2.943	10.4	21.1
1 22	8 54.08	− 1 45.3	2.040	2.967	7.7	21.0
2 1	8 44.97	− 1 11.5	2.041	2.990	6.1	20.9
2 11	8 36.14	− 0 22.7	2.070	3.013	6.7	21.0
2 21	8 28.45	+ 0 36.2	2.127	3.035	8.9	21.2
3 2	8 22.57	+ 1 39.5	2.211	3.056	11.4	21.4

362108 2009 CD_{27} 1 30.0 74.°46 0.°3/29.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.30	+14 41.7	1.523	2.317	17.8	21.0
1 2	9 10.50	+15 28.3	1.455	2.332	13.9	20.7
1 12	9 3.77	+16 30.4	1.408	2.346	9.3	20.5
1 22	8 54.81	+17 42.5	1.385	2.361	4.2	20.2
2 1	8 44.78	+18 56.7	1.391	2.375	1.2	20.1
2 11	8 35.10	+20 5.2	1.424	2.390	6.3	20.4
2 21	8 27.07	+21 2.0	1.484	2.404	11.0	20.7
3 2	8 21.64	+21 44.1	1.567	2.418	15.0	21.0

327674 2006 RT_{17} 1 30.0 40.°05 6.°7/ 2.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.92	+ 2 59.4	1.483	2.242	19.7	20.4
1 2	9 9.35	+ 2 8.7	1.413	2.255	16.4	20.2
1 12	9 2.96	+ 1 39.1	1.363	2.267	12.6	20.0
1 22	8 54.43	+ 1 32.5	1.334	2.281	8.9	19.8
2 1	8 44.88	+ 1 48.5	1.331	2.294	6.7	19.7
2 11	8 35.67	+ 2 23.2	1.353	2.309	8.0	19.8
2 21	8 28.04	+ 3 10.3	1.401	2.324	11.3	20.1
3 2	8 22.93	+ 4 2.7	1.471	2.339	14.9	20.3

32230 2000 OP_{27} 1 30.0 81.°75 3.°1/ 1.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 8.85	+ 3 55.7	2.441	3.174	13.5	17.7
1 2	9 5.13	+ 4 23.2	2.356	3.187	11.0	17.6
1 12	8 59.62	+ 5 7.2	2.294	3.200	8.1	17.4
1 22	8 52.79	+ 6 5.9	2.259	3.213	5.1	17.2
2 1	8 45.31	+ 7 16.3	2.253	3.227	3.2	17.1
2 11	8 37.98	+ 8 33.6	2.277	3.240	4.6	17.2
2 21	8 31.54	+ 9 52.3	2.331	3.252	7.5	17.4
3 2	8 26.62	+11 7.8	2.412	3.265	10.3	17.6

468412 2016 GF_{191} 1 30.0 239.°62 0.°6/30.5 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 10.00	+12 55.3	2.361	3.129	13.0	21.8
1 2	9 6.26	+13 28.7	2.263	3.124	10.2	21.6
1 12	9 0.53	+14 13.8	2.189	3.119	7.0	21.4
1 22	8 53.27	+15 7.8	2.141	3.114	3.3	21.1
2 1	8 45.18	+16 6.8	2.124	3.108	0.8	20.9
2 11	8 37.13	+17 5.7	2.137	3.103	4.5	21.2
2 21	8 29.98	+18 0.3	2.179	3.097	8.1	21.4
3 2	8 24.48	+18 47.4	2.247	3.091	11.3	21.6

427239 2014 WF_{61} 1 30.0 124.°77 4.°7/26.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.57	+28 44.9	2.175	2.964	13.3	21.9
1 2	9 12.38	+29 57.9	2.108	2.980	10.4	21.8
1 12	9 4.70	+31 12.0	2.065	2.995	7.4	21.6
1 22	8 55.16	+32 20.0	2.049	3.009	5.0	21.5
2 1	8 44.72	+33 14.9	2.064	3.023	5.2	21.5
2 11	8 34.56	+33 52.0	2.107	3.036	7.6	21.7
2 21	8 25.78	+34 10.0	2.178	3.049	10.4	21.9
3 2	8 19.19	+34 10.2	2.273	3.061	13.1	22.1

165127 2000 KX_{40} 1 30.0 218.°46 1.°5/31.2 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 10.45	+11 8.5	2.660	3.415	12.0	21.1
1 2	9 6.33	+11 19.7	2.558	3.409	9.6	20.9
1 12	9 0.44	+11 41.1	2.479	3.403	6.7	20.7
1 22	8 53.19	+12 11.0	2.428	3.396	3.5	20.5
2 1	8 45.21	+12 46.9	2.407	3.389	1.5	20.4
2 11	8 37.27	+13 25.4	2.416	3.382	4.1	20.5
2 21	8 30.14	+14 3.3	2.455	3.374	7.3	20.7
3 2	8 24.46	+14 37.8	2.521	3.367	10.2	20.9

420955 2013 PH_{8} 1 30.0 330.°20 7.°9/ 3.9 16

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 6.51	− 2 3.4	1.535	2.281	19.7	20.8
1 2	9 4.63	− 2 29.1	1.438	2.265	16.9	20.6
1 12	9 0.06	− 2 28.1	1.359	2.250	13.6	20.3
1 22	8 53.27	− 1 56.8	1.301	2.236	10.3	20.1
2 1	8 45.15	− 0 54.8	1.267	2.223	8.1	19.9
2 11	8 36.98	+ 0 33.1	1.258	2.211	8.8	19.9
2 21	8 30.05	+ 2 18.4	1.273	2.199	11.9	20.1
3 2	8 25.45	+ 4 10.3	1.312	2.189	15.7	20.2

16602 Anabuki 1 30.0 227.°22 2.°2/31.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.38	+10 45.3	1.736	2.507	16.8	18.4
1 2	9 11.23	+10 49.4	1.640	2.500	13.5	18.1
1 12	9 4.29	+11 9.0	1.565	2.492	9.5	17.9
1 22	8 55.13	+11 42.2	1.514	2.483	5.1	17.6
2 1	8 44.70	+12 25.5	1.492	2.474	2.2	17.4
2 11	8 34.29	+13 13.4	1.498	2.465	5.9	17.6
2 21	8 25.20	+14 0.4	1.532	2.455	10.5	17.8
3 2	8 18.46	+14 42.2	1.589	2.445	14.6	18.1

314006 2004 UX_{3} 1 30.0 182.°99 0.°2/29.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.45	+16 44.9	2.053	2.824	14.6	21.9
1 2	9 13.09	+17 1.6	1.961	2.825	11.5	21.7
1 12	9 5.23	+17 27.1	1.893	2.825	7.7	21.5
1 22	8 55.44	+17 58.1	1.851	2.825	3.5	21.2
2 1	8 44.64	+18 30.0	1.839	2.824	0.9	21.0
2 11	8 33.99	+18 58.4	1.858	2.822	5.3	21.3
2 21	8 24.60	+19 20.3	1.905	2.819	9.4	21.6
3 2	8 17.36	+19 34.0	1.978	2.815	12.9	21.8

323460 2004 JO_{18} 1 30.0 219.°12 1.°4/29.0 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.34	+18 34.0	2.020	2.806	14.3	21.0
1 2	9 9.29	+19 19.8	1.928	2.802	11.1	20.8
1 12	9 2.79	+20 15.4	1.859	2.797	7.4	20.5
1 22	8 54.37	+21 16.1	1.818	2.793	3.4	20.3
2 1	8 44.90	+22 15.8	1.805	2.788	1.9	20.1
2 11	8 35.51	+23 8.7	1.823	2.782	5.8	20.4
2 21	8 27.29	+23 50.5	1.868	2.777	9.8	20.6
3 2	8 21.14	+24 19.4	1.937	2.771	13.3	20.8

335985 2007 TD_{248} 1 30.0 160.°90 0.°5/30.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.39	+15 51.0	2.582	3.347	12.1	20.8
1 2	9 8.58	+15 51.5	2.490	3.350	9.5	20.6
1 12	9 1.89	+15 58.6	2.423	3.354	6.4	20.4
1 22	8 53.82	+16 10.3	2.384	3.357	3.0	20.2
2 1	8 45.07	+16 24.0	2.375	3.360	0.8	20.0
2 11	8 36.47	+16 36.9	2.397	3.362	4.2	20.3
2 21	8 28.83	+16 47.1	2.449	3.364	7.5	20.5
3 2	8 22.78	+16 53.0	2.527	3.366	10.4	20.7

431527 2007 TX_{268} 1 30.0 94.°50 2.°0/31.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.03	+ 9 32.2	2.428	3.181	13.1	21.5
1 2	9 6.78	+ 9 41.1	2.349	3.197	10.4	21.3
1 12	9 0.69	+10 1.7	2.292	3.213	7.3	21.2
1 22	8 53.27	+10 32.2	2.263	3.228	4.1	21.0
2 1	8 45.21	+11 10.0	2.263	3.243	2.0	20.9
2 11	8 37.36	+11 51.2	2.293	3.258	4.3	21.0
2 21	8 30.47	+12 32.4	2.353	3.273	7.5	21.3
3 2	8 25.18	+13 10.3	2.439	3.288	10.4	21.5

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
377038 2002 SH_{56}			1 30.0	102.°04	0.°1/29.9	18
12 23	9 13.52	+16 46.3	2.410	3.181	12.7	21.3
1 2	9 8.73	+17 1.2	2.334	3.198	9.8	21.1
1 12	9 1.99	+17 23.2	2.281	3.215	6.6	20.9
1 22	8 53.85	+17 49.4	2.257	3.231	3.0	20.7
2 1	8 45.07	+18 16.2	2.262	3.247	0.8	20.6
2 11	8 36.55	+18 40.5	2.299	3.263	4.4	20.9
2 21	8 29.09	+18 59.6	2.364	3.278	7.8	21.1
3 2	8 23.35	+19 12.3	2.456	3.293	10.7	21.3
461439 2002 CT_{208}			1 30.0	316.°48	3.°3/28.5	17
12 23	9 15.34	+25 5.3	1.685	2.490	15.9	20.8
1 2	9 11.52	+25 22.7	1.590	2.473	12.5	20.5
1 12	9 4.66	+25 43.6	1.516	2.456	8.6	20.2
1 22	8 55.34	+26 2.1	1.467	2.440	4.6	20.0
2 1	8 44.66	+26 12.1	1.446	2.424	3.7	19.9
2 11	8 34.08	+26 9.0	1.452	2.408	7.5	20.1
2 21	8 25.03	+25 51.1	1.484	2.393	11.8	20.3
3 2	8 18.64	+25 19.6	1.539	2.379	15.8	20.5
83491 2001 SA_{107}			1 30.0	71.°05	9.°9/ 7.9	18
12 23	9 9.30	−14 41.4	2.429	3.049	16.1	19.2
1 2	9 5.57	−15 38.3	2.348	3.059	14.6	19.1
1 12	8 59.98	−16 12.5	2.285	3.070	12.8	19.0
1 22	8 52.98	−16 20.8	2.242	3.081	11.2	18.9
2 1	8 45.28	−16 1.5	2.222	3.092	10.1	18.8
2 11	8 37.70	−15 16.0	2.228	3.103	9.9	18.8
2 21	8 31.05	−14 8.7	2.258	3.114	10.7	18.9
3 2	8 25.97	−12 46.0	2.312	3.125	12.1	19.0
242413 2004 GH_{15}			1 30.0	342.°13	11.°8/18.3	15
12 23	9 14.14	+44 25.2	1.801	2.599	15.3	19.3
1 2	9 11.54	+46 59.9	1.739	2.589	13.4	19.1
1 12	9 5.28	+49 26.7	1.701	2.580	12.1	19.0
1 22	8 55.85	+51 32.3	1.687	2.571	11.9	19.0
2 1	8 44.49	+53 4.8	1.698	2.563	13.0	19.1
2 11	8 33.09	+53 57.7	1.731	2.556	14.8	19.2
2 21	8 23.57	+54 11.2	1.784	2.549	16.9	19.3
3 2	8 17.41	+53 50.5	1.854	2.544	18.9	19.4
126037 2001 YA_{69}			1 30.0	329.°41	2.°5/28.4	18
12 23	9 13.01	+21 30.4	1.838	2.637	15.0	19.8
1 2	9 9.28	+22 18.0	1.754	2.635	11.7	19.5
1 12	9 2.90	+23 13.5	1.693	2.633	7.8	19.3
1 22	8 54.45	+24 11.1	1.658	2.631	3.9	19.1
2 1	8 44.91	+25 4.2	1.651	2.630	3.0	19.0
2 11	8 35.53	+25 46.6	1.672	2.628	6.7	19.2
2 21	8 27.49	+26 14.9	1.720	2.627	10.7	19.4
3 2	8 21.75	+26 28.1	1.792	2.625	14.2	19.7
53319 1999 JM_{8}			1 30.0	209.°46	0.°3/30.3	18 R
12 23	9 12.86	+14 7.2	3.680	4.423	9.2	21.9
1 2	9 7.70	+14 38.5	3.565	4.412	7.2	21.7
1 12	9 1.12	+15 16.6	3.476	4.401	4.9	21.5
1 22	8 53.45	+15 59.6	3.417	4.388	2.3	21.3
2 1	8 45.18	+16 44.7	3.391	4.375	0.5	21.2
2 11	8 36.89	+17 29.2	3.398	4.361	3.2	21.4
2 21	8 29.15	+18 10.6	3.437	4.345	5.8	21.5
3 2	8 22.50	+18 46.9	3.506	4.329	8.1	21.7
201345 2002 TJ_{198}			1 30.0	61.°37	4.°7/ 1.6	18
12 23	9 15.41	+ 5 25.2	2.048	2.786	15.6	19.8
1 2	9 10.36	+ 4 36.1	1.978	2.809	12.8	19.7
1 12	9 3.14	+ 4 1.0	1.930	2.833	9.6	19.5
1 22	8 54.39	+ 3 40.7	1.908	2.856	6.5	19.4
2 1	8 44.96	+ 3 34.6	1.914	2.880	4.8	19.3
2 11	8 35.90	+ 3 40.5	1.949	2.903	6.1	19.4
2 21	8 28.08	+ 3 55.2	2.012	2.927	8.9	19.7
3 2	8 22.22	+ 4 14.8	2.101	2.950	11.8	19.9
70665 1999 TF_{286}			1 30.0	73.°15	2.°5/31.2	18
12 23	9 15.40	+11 25.7	1.617	2.396	17.6	19.7
1 2	9 11.20	+11 9.9	1.538	2.402	14.0	19.4
1 12	9 4.18	+11 8.0	1.480	2.408	9.9	19.2
1 22	8 55.02	+11 18.7	1.446	2.415	5.3	19.0
2 1	8 44.78	+11 38.8	1.439	2.421	2.5	18.8
2 11	8 34.83	+12 4.0	1.461	2.428	6.0	19.0
2 21	8 26.41	+12 30.1	1.508	2.434	10.4	19.3
3 2	8 20.46	+12 53.2	1.580	2.441	14.4	19.5
391063 2005 UT_{59}			1 30.0	175.°91	3.°6/ 1.1	18
12 23	9 15.96	+ 6 57.6	1.759	2.514	17.2	21.4
1 2	9 11.51	+ 6 56.3	1.670	2.517	14.0	21.2
1 12	9 4.37	+ 7 13.0	1.602	2.518	10.2	21.0
1 22	8 55.13	+ 7 46.9	1.558	2.519	6.1	20.7
2 1	8 44.76	+ 8 34.8	1.542	2.520	3.6	20.6
2 11	8 34.52	+ 9 31.4	1.556	2.520	6.0	20.7
2 21	8 25.62	+10 30.6	1.596	2.519	10.1	21.0
3 2	8 19.02	+11 27.0	1.662	2.518	14.0	21.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
479438 2013 YM_{101}			1 30.0	272.°86	1.°3/30.7	17
12 23	9 15.89	+15 4.5	2.506	3.265	12.6	21.1
1 2	9 10.71	+14 36.9	2.394	3.249	10.0	20.9
1 12	9 3.47	+14 14.5	2.305	3.232	6.9	20.7
1 22	8 54.62	+13 56.5	2.245	3.215	3.5	20.4
2 1	8 44.90	+13 41.3	2.215	3.198	1.4	20.2
2 11	8 35.21	+13 27.5	2.216	3.181	4.5	20.4
2 21	8 26.45	+13 13.6	2.247	3.163	8.0	20.6
3 2	8 19.37	+12 58.8	2.305	3.146	11.2	20.8
372399 2009 QN_{62}			1 30.0	229.°27	3.°7/27.9	17
12 23	9 19.41	+27 50.2	2.182	2.966	13.4	21.7
1 2	9 13.93	+28 18.1	2.086	2.957	10.6	21.5
1 12	9 5.86	+28 46.7	2.015	2.947	7.4	21.3
1 22	8 55.76	+29 10.3	1.970	2.937	4.4	21.1
2 1	8 44.61	+29 23.6	1.956	2.926	4.1	21.1
2 11	8 33.63	+29 22.8	1.971	2.915	6.9	21.2
2 21	8 23.95	+29 7.1	2.014	2.903	10.2	21.4
3 2	8 16.51	+28 37.9	2.082	2.891	13.4	21.6
66909 1999 VD_{163}			1 30.0	125.°73	0.°2/29.9	18
12 23	9 13.44	+16 58.6	2.158	2.936	13.7	20.0
1 2	9 9.03	+17 16.2	2.074	2.942	10.7	19.8
1 12	9 2.41	+17 42.0	2.012	2.947	7.2	19.6
1 22	8 54.14	+18 12.8	1.978	2.953	3.2	19.4
2 1	8 45.04	+18 44.4	1.973	2.958	0.9	19.2
2 11	8 36.14	+19 12.9	1.998	2.963	4.9	19.5
2 21	8 28.39	+19 35.4	2.052	2.967	8.7	19.7
3 2	8 22.54	+19 50.0	2.130	2.972	11.9	19.9
497123 2004 KP_{3}			1 30.0	238.°96	7.°6/ 3.3	18
12 23	9 12.91	− 1 58.3	1.972	2.683	17.0	20.7
1 2	9 8.87	− 2 55.3	1.878	2.680	14.6	20.5
1 12	9 2.48	− 3 33.8	1.803	2.676	11.8	20.3
1 22	8 54.25	− 3 50.8	1.752	2.673	9.2	20.2
2 1	8 45.00	− 3 44.9	1.727	2.669	7.7	20.1
2 11	8 35.81	− 3 18.0	1.729	2.666	8.3	20.1
2 21	8 27.71	− 2 34.3	1.758	2.662	10.6	20.2
3 2	8 21.57	− 1 39.9	1.810	2.658	13.4	20.4
384456 2010 BW_{1}			1 30.0	266.°58	1.°5/30.9	18
12 23	9 12.91	+13 12.4	2.182	2.950	13.9	20.6
1 2	9 8.62	+13 3.7	2.087	2.947	11.0	20.4
1 12	9 2.16	+13 4.4	2.016	2.944	7.7	20.2
1 22	8 54.05	+13 13.0	1.970	2.940	3.9	20.0
2 1	8 45.06	+13 27.0	1.954	2.937	1.5	19.8
2 11	8 36.21	+13 43.3	1.968	2.934	4.8	20.0
2 21	8 28.42	+13 59.0	2.010	2.931	8.5	20.2
3 2	8 22.47	+14 11.9	2.077	2.927	11.9	20.4
138742 2000 SR_{223}			1 30.0	219.°53	8.°1/21.9	17
12 23	9 22.88	+48 40.5	3.057	3.801	10.8	20.5
1 2	9 16.50	+49 47.5	2.983	3.793	9.5	20.4
1 12	9 7.49	+50 44.5	2.932	3.784	8.5	20.3
1 22	8 56.48	+51 24.8	2.908	3.774	8.1	20.3
2 1	8 44.47	+51 43.1	2.910	3.764	8.5	20.3
2 11	8 32.71	+51 37.1	2.938	3.754	9.6	20.3
2 21	8 22.35	+51 7.7	2.991	3.743	11.0	20.4
3 2	8 14.29	+50 18.2	3.064	3.732	12.4	20.5
165769 2001 QJ_{244}			1 30.0	143.°66	3.°2/27.7	18
12 23	9 14.47	+27 4.8	2.496	3.282	11.9	20.2
1 2	9 9.64	+27 38.4	2.414	3.286	9.3	20.0
1 12	9 2.72	+28 12.9	2.357	3.290	6.4	19.8
1 22	8 54.25	+28 43.7	2.327	3.294	3.8	19.7
2 1	8 45.04	+29 6.3	2.327	3.297	3.5	19.7
2 11	8 36.04	+29 17.6	2.357	3.301	5.9	19.8
2 21	8 28.14	+29 16.4	2.415	3.304	8.8	20.0
3 2	8 22.06	+29 3.2	2.499	3.307	11.5	20.2
266377 2007 ED_{105}			1 30.0	122.°21	2.°8/28.4	18
12 23	9 15.83	+24 0.3	1.982	2.775	14.3	20.5
1 2	9 11.21	+24 31.7	1.901	2.778	11.1	20.3
1 12	9 4.04	+25 7.1	1.844	2.781	7.5	20.1
1 22	8 54.93	+25 41.1	1.812	2.784	3.9	19.9
2 1	8 44.87	+26 8.1	1.810	2.787	3.2	19.8
2 11	8 35.06	+26 24.0	1.837	2.790	6.4	20.0
2 21	8 26.63	+26 26.9	1.891	2.793	10.1	20.3
3 2	8 20.44	+26 17.1	1.969	2.796	13.4	20.5
458754 2011 RF_{4}			1 30.0	172.°66	3.°7/27.9	18
12 23	9 20.58	+25 45.5	1.942	2.729	14.7	22.4
1 2	9 15.05	+26 31.2	1.860	2.733	11.5	22.2
1 12	9 6.70	+27 20.3	1.801	2.736	7.9	22.0
1 22	8 56.18	+28 6.1	1.769	2.738	4.5	21.8
2 1	8 44.56	+28 41.8	1.767	2.739	4.1	21.8
2 11	8 33.20	+29 2.4	1.794	2.740	7.3	22.0
2 21	8 23.35	+29 6.5	1.849	2.740	10.9	22.2
3 2	8 15.97	+28 55.0	1.927	2.740	14.2	22.4

82701 2001 PQ_{39} 1 30.0 89.°92 4.°8/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.94	+30 2.0	1.882	2.672	15.0	18.9
1 2	9 15.95	+30 38.9	1.820	2.692	11.8	18.8
1 12	9 7.11	+31 14.2	1.782	2.713	8.3	18.6
1 22	8 56.26	+31 40.7	1.771	2.732	5.4	18.5
2 1	8 44.58	+31 52.5	1.788	2.752	5.2	18.5
2 11	8 33.49	+31 46.5	1.833	2.771	7.8	18.7
2 21	8 24.18	+31 23.4	1.906	2.790	11.0	18.9
3 2	8 17.50	+30 45.9	2.002	2.809	14.0	19.1

56047 1998 XK_{36} 1 30.0 47.°11 0.°2/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.96	+16 37.1	1.414	2.215	18.6	19.5
1 2	9 12.17	+16 49.9	1.337	2.218	14.6	19.3
1 12	9 5.14	+17 15.3	1.281	2.221	9.8	19.0
1 22	8 55.58	+17 48.9	1.249	2.224	4.5	18.7
2 1	8 44.71	+18 24.8	1.243	2.228	1.2	18.5
2 11	8 34.15	+18 56.7	1.265	2.232	6.7	18.9
2 21	8 25.38	+19 20.1	1.311	2.235	11.8	19.2
3 2	8 19.49	+19 32.9	1.380	2.239	16.2	19.4

506021 2015 HO_{98} 1 30.0 226.°19 2.°7/27.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.44	+26 21.4	2.957	3.740	10.3	22.1
1 2	9 7.05	+26 57.6	2.863	3.734	8.0	21.9
1 12	9 0.90	+27 35.3	2.795	3.728	5.5	21.7
1 22	8 53.42	+28 10.6	2.755	3.722	3.2	21.6
2 1	8 45.25	+28 39.9	2.745	3.715	3.0	21.6
2 11	8 37.18	+28 59.9	2.766	3.709	5.2	21.7
2 21	8 29.94	+29 9.2	2.815	3.702	7.8	21.8
3 2	8 24.16	+29 7.6	2.890	3.695	10.2	22.0

466434 2013 TW_{51} 1 30.0 101.°60 0.°6/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.76	+14 34.6	2.126	2.901	14.0	21.7
1 2	9 8.50	+14 48.7	2.044	2.909	11.0	21.5
1 12	9 2.06	+15 12.8	1.984	2.916	7.5	21.3
1 22	8 53.99	+15 44.1	1.951	2.924	3.5	21.0
2 1	8 45.12	+16 18.7	1.947	2.932	0.9	20.8
2 11	8 36.45	+16 52.5	1.973	2.939	4.8	21.1
2 21	8 28.92	+17 22.1	2.028	2.947	8.5	21.4
3 2	8 23.28	+17 45.1	2.107	2.954	11.8	21.6

420516 2012 FK_{48} 1 30.0 138.°73 0.°3/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.81	+14 35.0	2.071	2.845	14.4	22.1
1 2	9 9.41	+15 1.2	1.987	2.852	11.3	21.9
1 12	9 2.73	+15 38.5	1.926	2.859	7.6	21.7
1 22	8 54.32	+16 23.3	1.892	2.866	3.5	21.4
2 1	8 45.03	+17 11.2	1.888	2.872	0.8	21.2
2 11	8 35.94	+17 57.2	1.913	2.878	5.0	21.5
2 21	8 28.01	+18 37.3	1.967	2.884	8.9	21.8
3 2	8 22.06	+19 9.0	2.046	2.889	12.3	22.0

34254 Mihirpatel 1 30.0 196.°87 0.°6/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.79	+18 51.7	2.818	3.589	11.0	19.9
1 2	9 7.29	+19 9.4	2.722	3.587	8.6	19.7
1 12	9 1.04	+19 32.4	2.650	3.585	5.7	19.5
1 22	8 53.48	+19 57.9	2.608	3.582	2.6	19.3
2 1	8 45.25	+20 22.7	2.595	3.579	1.0	19.2
2 11	8 37.13	+20 44.0	2.614	3.576	4.2	19.4
2 21	8 29.83	+20 59.7	2.663	3.572	7.2	19.6
3 2	8 23.99	+21 8.6	2.738	3.568	9.9	19.8

32003 2000 HN_{51} 1 30.0 163.°75 3.°0/ 1.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.43	+ 6 24.6	2.634	3.370	12.6	19.3
1 2	9 6.27	+ 6 21.6	2.539	3.373	10.2	19.1
1 12	9 0.38	+ 6 30.9	2.468	3.376	7.5	18.9
1 22	8 53.19	+ 6 51.7	2.423	3.379	4.7	18.8
2 1	8 45.33	+ 7 22.3	2.407	3.381	3.0	18.7
2 11	8 37.58	+ 7 59.7	2.422	3.383	4.5	18.8
2 21	8 30.65	+ 8 40.4	2.466	3.385	7.3	18.9
3 2	8 25.16	+ 9 21.1	2.537	3.386	10.0	19.1

191840 2004 VG_{17} 1 30.0 170.°78 3.°3/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.51	+25 5.9	2.096	2.889	13.6	20.5
1 2	9 10.14	+25 52.3	2.013	2.890	10.6	20.3
1 12	9 3.32	+26 42.5	1.954	2.891	7.2	20.1
1 22	8 54.63	+27 30.7	1.921	2.891	4.1	19.9
2 1	8 44.98	+28 11.0	1.918	2.891	3.7	19.9
2 11	8 35.52	+28 38.7	1.944	2.892	6.7	20.1
2 21	8 27.32	+28 51.6	1.998	2.892	10.1	20.3
3 2	8 21.24	+28 50.0	2.075	2.892	13.1	20.5

362062 2009 BS_{54} 1 30.0 16.°02 1.°8/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.90	+19 28.7	1.220	2.043	19.6	21.0
1 2	9 10.25	+19 54.9	1.153	2.046	15.4	20.7
1 12	9 4.08	+20 32.9	1.105	2.051	10.3	20.4
1 22	8 55.17	+21 16.3	1.080	2.057	4.7	20.1
2 1	8 44.87	+21 57.2	1.080	2.063	2.5	20.0
2 11	8 35.01	+22 28.1	1.105	2.070	7.7	20.3
2 21	8 27.17	+22 45.0	1.154	2.079	13.0	20.7
3 2	8 22.50	+22 46.9	1.223	2.088	17.4	21.0

198940 2005 UA_{279} 1 30.0 314.°06 3.°8/31.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.86	+ 8 49.5	1.323	2.116	20.1	20.4
1 2	9 9.32	+ 8 33.4	1.234	2.104	16.4	20.2
1 12	9 3.52	+ 8 37.3	1.163	2.092	11.9	19.9
1 22	8 55.00	+ 9 1.1	1.114	2.081	6.9	19.5
2 1	8 44.88	+ 9 42.2	1.090	2.070	3.8	19.3
2 11	8 34.76	+10 34.3	1.091	2.060	7.2	19.5
2 21	8 26.25	+11 30.2	1.117	2.050	12.4	19.7
3 2	8 20.62	+12 22.9	1.164	2.041	17.3	20.0

468844 2012 VZ_{7} 1 30.0 221.°01 4.°2/ 2.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.46	+ 2 24.2	2.647	3.367	12.9	22.1
1 2	9 5.59	+ 2 13.5	2.545	3.362	10.7	21.9
1 12	8 59.98	+ 2 17.1	2.464	3.357	8.2	21.8
1 22	8 53.05	+ 2 34.9	2.409	3.351	5.7	21.6
2 1	8 45.41	+ 3 6.1	2.383	3.346	4.2	21.5
2 11	8 37.82	+ 3 47.9	2.386	3.340	5.1	21.5
2 21	8 30.99	+ 4 36.5	2.419	3.334	7.6	21.7
3 2	8 25.57	+ 5 28.1	2.478	3.328	10.2	21.8

137919 2000 BD_{14} 1 30.0 230.°72 1.°6/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.42	+21 6.0	2.068	2.850	14.1	19.3
1 2	9 12.46	+21 23.6	1.969	2.840	11.1	19.0
1 12	9 4.95	+21 46.9	1.894	2.830	7.4	18.8
1 22	8 55.43	+22 11.6	1.845	2.820	3.5	18.5
2 1	8 44.82	+22 33.1	1.826	2.808	2.0	18.4
2 11	8 34.29	+22 47.1	1.837	2.797	5.8	18.6
2 21	8 24.99	+22 51.5	1.877	2.785	9.8	18.8
3 2	8 17.85	+22 45.6	1.941	2.772	13.3	19.0

242249 2003 SV_{244} 1 30.0 195.°57 2.°5/31.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.31	+ 8 19.7	2.278	3.021	14.1	22.4
1 2	9 10.44	+ 8 27.7	2.177	3.018	11.4	22.2
1 12	9 3.40	+ 8 49.4	2.099	3.015	8.2	22.0
1 22	8 54.67	+ 9 23.5	2.047	3.010	4.7	21.8
2 1	8 45.02	+10 7.2	2.025	3.004	2.5	21.6
2 11	8 35.40	+10 56.4	2.034	2.998	4.9	21.7
2 21	8 26.77	+11 46.7	2.072	2.991	8.4	21.9
3 2	8 19.92	+12 34.1	2.137	2.983	11.8	22.1

429376 2010 KD_{128} 1 30.0 236.°18 3.°5/26.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.96	+24 8.4	2.569	3.354	11.6	20.9
1 2	9 7.91	+25 43.9	2.474	3.347	9.0	20.7
1 12	9 1.77	+27 26.2	2.405	3.340	6.2	20.5
1 22	8 53.97	+29 9.1	2.366	3.333	3.8	20.3
2 1	8 45.18	+30 45.4	2.359	3.325	4.0	20.3
2 11	8 36.33	+32 8.9	2.383	3.317	6.5	20.5
2 21	8 28.33	+33 15.7	2.435	3.309	9.4	20.7
3 2	8 21.99	+34 4.6	2.513	3.301	12.0	20.8

95983 2004 MB_{7} 1 30.0 190.°00 1.°2/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.30	+10 26.2	2.507	3.259	12.8	20.2
1 2	9 7.92	+11 1.5	2.408	3.258	10.1	20.0
1 12	9 1.62	+11 49.7	2.332	3.256	7.0	19.8
1 22	8 53.83	+12 48.1	2.284	3.253	3.6	19.6
2 1	8 45.23	+13 52.9	2.267	3.250	1.3	19.4
2 11	8 36.68	+14 59.5	2.281	3.247	4.3	19.6
2 21	8 28.98	+16 3.2	2.325	3.243	7.7	19.8
3 2	8 22.86	+17 0.4	2.397	3.238	10.8	20.0

407957 2012 DF_{15} 1 30.0 16.°10 6.°7/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.59	+33 26.4	1.397	2.207	18.3	19.8
1 2	9 17.63	+33 43.6	1.331	2.212	14.6	19.6
1 12	9 8.85	+33 54.6	1.285	2.217	10.7	19.3
1 22	8 57.24	+33 50.7	1.263	2.222	7.4	19.2
2 1	8 44.43	+33 24.7	1.266	2.229	7.1	19.2
2 11	8 32.40	+32 34.5	1.296	2.237	10.0	19.4
2 21	8 22.80	+31 23.3	1.350	2.245	13.8	19.6
3 2	8 16.66	+29 57.5	1.426	2.254	17.4	19.9

458295 2010 UC_{96} 1 30.0 65.°54 2.°2/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.41	+ 9 28.9	1.665	2.435	17.5	20.9
1 2	9 10.85	+ 9 46.9	1.607	2.466	13.8	20.7
1 12	9 3.72	+10 21.7	1.571	2.497	9.6	20.5
1 22	8 54.76	+11 10.2	1.560	2.528	5.1	20.3
2 1	8 45.04	+12 7.2	1.576	2.558	2.2	20.2
2 11	8 35.81	+13 6.3	1.621	2.589	5.5	20.5
2 21	8 28.15	+14 2.1	1.694	2.619	9.5	20.8
3 2	8 22.81	+14 50.3	1.792	2.649	13.1	21.0

500782 2013 EN_{18} 1 30.0 254.°74 0.°1/30.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.70	+15 51.6	1.764	2.549	16.1	22.6
1 2	9 11.59	+16 7.4	1.664	2.535	12.8	22.4
1 12	9 4.66	+16 34.9	1.585	2.520	8.7	22.1
1 22	8 55.41	+17 10.9	1.531	2.506	4.0	21.8
2 1	8 44.82	+17 50.3	1.506	2.491	1.0	21.5
2 11	8 34.21	+18 27.6	1.509	2.475	6.0	21.8
2 21	8 24.88	+18 58.3	1.540	2.459	10.7	22.1
3 2	8 17.95	+19 19.7	1.594	2.443	14.9	22.3

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
483366 2016 SO_{13}			1 30.0	191.°48	1.°8/ 1.0	17
	h m	° ′			°	m
12 23	9 6.35	+ 8 12.2	3.923	4.655	8.8	21.8
1 2	9 2.58	+ 8 16.1	3.819	4.653	7.1	21.7
1 12	8 57.66	+ 8 27.7	3.741	4.651	5.1	21.5
1 22	8 51.91	+ 8 46.1	3.690	4.649	3.0	21.4
2 1	8 45.73	+ 9 10.1	3.670	4.647	1.8	21.3
2 11	8 39.60	+ 9 37.8	3.682	4.644	3.0	21.4
2 21	8 33.98	+10 7.1	3.724	4.641	5.1	21.5
3 2	8 29.27	+10 36.1	3.795	4.638	7.1	21.7
102757 1999 VA_{128}			1 30.0	176.°67	0.°1/30.0	18
12 23	9 16.37	+15 57.4	2.122	2.893	14.2	21.2
1 2	9 11.42	+16 18.2	2.031	2.895	11.1	21.0
1 12	9 4.11	+16 48.6	1.964	2.897	7.5	20.8
1 22	8 55.01	+17 25.1	1.924	2.898	3.4	20.6
2 1	8 44.96	+18 3.3	1.914	2.899	0.8	20.4
2 11	8 35.06	+18 38.8	1.934	2.899	5.1	20.7
2 21	8 26.33	+19 8.2	1.983	2.898	9.0	20.9
3 2	8 19.61	+19 29.4	2.058	2.896	12.4	21.1
77598 2001 KE_{23}			1 30.0	110.°68	3.°9/ 1.8	18
12 23	9 12.03	+ 4 44.5	2.416	3.147	13.7	19.4
1 2	9 7.60	+ 4 26.0	2.332	3.159	11.2	19.2
1 12	9 1.31	+ 4 21.1	2.269	3.171	8.4	19.1
1 22	8 53.64	+ 4 29.5	2.233	3.183	5.6	18.9
2 1	8 45.31	+ 4 50.0	2.226	3.194	3.9	18.8
2 11	8 37.16	+ 5 19.8	2.249	3.206	5.1	18.9
2 21	8 29.96	+ 5 55.3	2.300	3.216	7.8	19.1
3 2	8 24.37	+ 6 32.8	2.377	3.227	10.6	19.3
309774 2008 YH_{119}			1 30.0	287.°94	0.°2/29.9	18
12 23	9 16.92	+17 55.3	1.567	2.362	17.3	20.7
1 2	9 12.79	+17 52.2	1.477	2.354	13.7	20.4
1 12	9 5.55	+17 58.1	1.408	2.346	9.3	20.1
1 22	8 55.83	+18 9.5	1.364	2.339	4.3	19.8
2 1	8 44.75	+18 21.9	1.347	2.331	1.1	19.5
2 11	8 33.83	+18 30.7	1.357	2.324	6.4	19.9
2 21	8 24.50	+18 33.0	1.394	2.316	11.4	20.1
3 2	8 17.88	+18 27.5	1.454	2.309	15.7	20.4
66274 1999 JS_{8}			1 30.0	330.°42	7.°6/ 1.9	18
12 23	9 9.84	+ 3 51.1	1.447	2.218	19.6	18.2
1 2	9 7.51	+ 2 36.9	1.349	2.197	16.6	17.9
1 12	9 2.20	+ 1 39.2	1.270	2.177	13.1	17.7
1 22	8 54.40	+ 1 1.9	1.212	2.158	9.6	17.4
2 1	8 45.08	+ 0 47.9	1.178	2.140	7.6	17.3
2 11	8 35.65	+ 0 56.2	1.168	2.123	9.1	17.3
2 21	8 27.57	+ 1 22.8	1.183	2.107	12.8	17.4
3 2	8 22.06	+ 2 1.2	1.218	2.092	16.8	17.6
85526 1997 WM_{10}			1 30.0	94.°60	3.°1/31.7	18
12 23	9 17.38	+ 9 1.5	1.615	2.382	18.1	19.3
1 2	9 12.61	+ 8 53.2	1.546	2.401	14.5	19.1
1 12	9 5.06	+ 9 1.6	1.497	2.420	10.3	18.9
1 22	8 55.45	+ 9 25.0	1.473	2.438	5.8	18.6
2 1	8 44.89	+10 0.0	1.476	2.456	3.1	18.5
2 11	8 34.74	+10 41.3	1.508	2.474	6.0	18.7
2 21	8 26.19	+11 23.5	1.567	2.491	10.2	19.0
3 2	8 20.14	+12 2.3	1.649	2.508	14.0	19.3
136985 1998 SD_{12}			1 30.0	92.°27	9.°3/ 6.4	18
12 23	9 13.44	− 9 50.5	1.950	2.616	18.5	20.3
1 2	9 9.12	−10 27.6	1.880	2.638	16.2	20.2
1 12	9 2.52	−10 38.4	1.827	2.660	13.6	20.0
1 22	8 54.25	−10 20.1	1.795	2.681	11.2	19.9
2 1	8 45.19	− 9 32.6	1.788	2.703	9.5	19.8
2 11	8 36.41	− 8 19.6	1.807	2.723	9.5	19.9
2 21	8 28.86	− 6 48.2	1.852	2.744	10.9	20.0
3 2	8 23.32	− 5 6.8	1.923	2.763	13.1	20.2
224796 2006 TA_{53}			1 30.0	150.°12	4.°6/27.6	18
12 23	9 21.34	+25 24.5	1.572	2.371	17.1	21.5
1 2	9 16.30	+26 28.9	1.500	2.379	13.4	21.2
1 12	9 7.90	+27 39.1	1.449	2.387	9.2	21.0
1 22	8 56.88	+28 46.1	1.425	2.393	5.4	20.8
2 1	8 44.54	+29 40.2	1.428	2.399	5.1	20.8
2 11	8 32.55	+30 14.8	1.459	2.405	8.6	21.0
2 21	8 22.44	+30 27.7	1.516	2.409	12.7	21.3
3 2	8 15.35	+30 20.7	1.595	2.413	16.4	21.5
366154 2012 EK_{15}			1 30.0	225.°26	0.°4/30.3	18
12 23	9 11.87	+12 8.8	2.040	2.811	14.6	20.5
1 2	9 8.14	+13 3.7	1.943	2.806	11.6	20.3
1 12	9 2.08	+14 14.6	1.869	2.801	7.9	20.1
1 22	8 54.17	+15 37.6	1.822	2.795	3.7	19.8
2 1	8 45.20	+17 6.7	1.805	2.789	0.8	19.5
2 11	8 36.23	+18 34.8	1.818	2.783	5.2	19.9
2 21	8 28.32	+19 55.6	1.860	2.777	9.3	20.1
3 2	8 22.34	+21 4.5	1.927	2.770	12.9	20.3

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
438696 2008 QF_{26}			1 30.0	166.°21	0.°4/29.6	17
	h m	° ′			°	m
12 23	9 6.95	+18 31.2	4.294	5.056	7.6	22.9
1 2	9 2.95	+18 52.1	4.200	5.060	5.9	22.8
1 12	8 57.87	+19 16.4	4.132	5.064	3.9	22.7
1 22	8 52.01	+19 42.5	4.094	5.068	1.8	22.5
2 1	8 45.76	+20 8.3	4.088	5.071	0.7	22.4
2 11	8 39.59	+20 31.9	4.114	5.074	2.8	22.6
2 21	8 33.92	+20 51.9	4.170	5.077	4.9	22.7
3 2	8 29.13	+21 7.3	4.255	5.080	6.8	22.9
248735 2006 QA_{118}			1 30.0	89.°81	2.°4/ 1.1	18
12 23	9 9.83	+ 7 31.3	2.478	3.224	13.0	20.8
1 2	9 5.89	+ 7 44.4	2.395	3.237	10.5	20.6
1 12	9 0.17	+ 8 10.6	2.336	3.251	7.5	20.4
1 22	8 53.15	+ 8 48.2	2.303	3.264	4.4	20.3
2 1	8 45.49	+ 9 34.6	2.299	3.277	2.4	20.2
2 11	8 38.00	+10 25.9	2.326	3.290	4.3	20.3
2 21	8 31.42	+11 17.9	2.382	3.303	7.3	20.5
3 2	8 26.36	+12 7.2	2.464	3.316	10.2	20.7
53821 2000 ET_{144}			1 30.0	81.°12	1.°7/30.9	18
12 23	9 17.65	+12 49.5	1.423	2.211	19.1	19.0
1 2	9 13.27	+12 46.0	1.355	2.225	15.1	18.7
1 12	9 5.74	+12 57.7	1.306	2.239	10.4	18.5
1 22	8 55.85	+13 21.7	1.282	2.253	5.2	18.2
2 1	8 44.83	+13 53.4	1.284	2.267	1.9	18.0
2 11	8 34.27	+14 27.0	1.313	2.281	6.3	18.4
2 21	8 25.53	+14 57.6	1.369	2.295	11.2	18.7
3 2	8 19.61	+15 21.7	1.447	2.309	15.4	19.0
119395 2001 TC_{40}			1 30.1	129.°86	5.°5/25.9	18
12 23	9 19.77	+33 12.1	2.361	3.143	12.6	19.5
1 2	9 14.00	+34 19.4	2.295	3.159	10.0	19.4
1 12	9 5.78	+35 24.0	2.255	3.175	7.5	19.2
1 22	8 55.75	+36 19.0	2.242	3.190	5.7	19.1
2 1	8 44.87	+36 58.1	2.259	3.204	6.0	19.2
2 11	8 34.33	+37 17.9	2.305	3.218	7.9	19.3
2 21	8 25.16	+37 18.1	2.378	3.231	10.4	19.5
3 2	8 18.18	+37 0.7	2.475	3.243	12.7	19.7
502029 2015 AO_{102}			1 30.1	125.°34	2.°2/28.1	18
12 23	9 13.21	+20 18.6	2.380	3.161	12.5	21.8
1 2	9 8.78	+21 34.0	2.301	3.173	9.7	21.7
1 12	9 2.27	+22 57.0	2.248	3.185	6.4	21.5
1 22	8 54.17	+24 22.0	2.224	3.197	3.2	21.3
2 1	8 45.26	+25 42.6	2.230	3.208	2.6	21.3
2 11	8 36.48	+26 53.2	2.268	3.219	5.6	21.5
2 21	8 28.73	+27 50.1	2.335	3.229	8.8	21.7
3 2	8 22.75	+28 32.0	2.427	3.239	11.6	21.9
240344 2003 QP_{67}			1 30.1	117.°23	2.°0/31.3	18
12 23	9 16.78	+10 19.2	1.924	2.683	15.8	21.2
1 2	9 11.76	+10 29.9	1.849	2.702	12.6	21.0
1 12	9 4.32	+10 54.6	1.796	2.720	8.8	20.8
1 22	8 55.10	+11 31.1	1.770	2.737	4.7	20.6
2 1	8 45.05	+12 15.3	1.772	2.754	2.0	20.5
2 11	8 35.30	+13 2.3	1.804	2.770	5.2	20.7
2 21	8 26.89	+13 47.4	1.865	2.786	9.1	21.0
3 2	8 20.61	+14 27.1	1.951	2.801	12.5	21.2
47794 2000 EP_{38}			1 30.1	81.°76	0.°7/29.6	18
12 23	9 12.86	+18 12.9	2.169	2.951	13.5	19.1
1 2	9 8.60	+18 34.6	2.088	2.960	10.5	18.9
1 12	9 2.16	+19 3.6	2.032	2.968	7.0	18.7
1 22	8 54.11	+19 36.4	2.002	2.977	3.2	18.5
2 1	8 45.28	+20 8.8	2.001	2.985	1.2	18.4
2 11	8 36.68	+20 36.7	2.030	2.993	5.0	18.6
2 21	8 29.21	+20 57.5	2.088	3.002	8.6	18.9
3 2	8 23.64	+21 9.6	2.170	3.010	11.8	19.1
15838 Auclair			1 30.1	127.°77	0.°7/29.6	18
12 23	9 12.91	+18 21.5	2.391	3.168	12.6	19.1
1 2	9 8.45	+18 44.7	2.307	3.175	9.8	19.0
1 12	9 1.97	+19 14.5	2.247	3.183	6.5	18.8
1 22	8 54.01	+19 47.7	2.215	3.190	2.9	18.5
2 1	8 45.31	+20 20.2	2.213	3.196	1.2	18.4
2 11	8 36.80	+20 48.5	2.241	3.203	4.7	18.7
2 21	8 29.33	+21 9.9	2.297	3.209	8.1	18.9
3 2	8 23.57	+21 23.2	2.380	3.215	11.1	19.1
81072 2000 EC_{80}			1 30.1	58.°04	6.°9/27.2	18
12 23	9 23.76	+34 3.2	1.587	2.387	16.9	19.3
1 2	9 18.14	+34 40.9	1.524	2.398	13.6	19.1
1 12	9 9.01	+35 13.3	1.483	2.409	10.1	18.9
1 22	8 57.31	+35 31.3	1.466	2.420	7.4	18.8
2 1	8 44.54	+35 27.6	1.476	2.431	7.3	18.8
2 11	8 32.48	+34 59.3	1.513	2.443	9.8	19.0
2 21	8 22.66	+34 8.8	1.575	2.455	13.2	19.2
3 2	8 16.04	+33 1.4	1.659	2.466	16.3	19.4

363311 2002 NV_{63} 1 30.1 249.°55 1.°0/29.4 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.94	+17 46.8	1.872	2.658	15.2	21.9
1 2	9 10.89	+18 22.5	1.772	2.645	12.0	21.7
1 12	9 4.14	+19 9.4	1.694	2.632	8.1	21.4
1 22	8 55.20	+20 2.9	1.643	2.618	3.7	21.1
2 1	8 44.99	+20 57.1	1.620	2.604	1.6	20.9
2 11	8 34.76	+21 45.7	1.627	2.589	6.1	21.2
2 21	8 25.74	+22 24.3	1.661	2.574	10.5	21.4
3 2	8 18.98	+22 50.3	1.719	2.559	14.4	21.6

433020 2012 RP_{38} 1 30.1 117.°25 3.°4/ 1.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 10.06	+ 4 50.7	2.485	3.219	13.3	21.5
1 2	9 6.10	+ 4 53.8	2.397	3.228	10.9	21.3
1 12	9 0.34	+ 5 11.3	2.331	3.236	8.0	21.2
1 22	8 53.26	+ 5 42.3	2.291	3.245	5.1	21.0
2 1	8 45.51	+ 6 24.7	2.281	3.253	3.4	20.9
2 11	8 37.89	+ 7 14.9	2.300	3.260	4.7	21.0
2 21	8 31.15	+ 8 8.7	2.348	3.268	7.5	21.2
3 2	8 25.92	+ 9 2.1	2.423	3.276	10.3	21.4

77678 2001 MH_{27} 1 30.1 112.°45 0.°7/29.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.57	+19 14.3	2.499	3.274	12.2	19.2
1 2	9 8.82	+19 29.7	2.418	3.285	9.4	19.0
1 12	9 2.14	+19 50.4	2.362	3.297	6.3	18.8
1 22	8 54.06	+20 13.2	2.333	3.308	2.8	18.6
2 1	8 45.32	+20 34.9	2.335	3.318	1.2	18.5
2 11	8 36.81	+20 52.2	2.367	3.329	4.5	18.8
2 21	8 29.32	+21 3.2	2.429	3.339	7.8	19.0
3 2	8 23.52	+21 7.0	2.516	3.350	10.6	19.2

426489 2013 RW_{23} 1 30.1 104.°49 1.°3/30.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.04	+11 58.1	2.290	3.051	13.5	22.3
1 2	9 8.51	+12 13.4	2.213	3.068	10.7	22.1
1 12	9 1.98	+12 39.7	2.158	3.085	7.3	22.0
1 22	8 54.00	+13 14.6	2.131	3.101	3.7	21.8
2 1	8 45.34	+13 54.6	2.134	3.117	1.3	21.6
2 11	8 36.90	+14 35.6	2.166	3.133	4.4	21.8
2 21	8 29.54	+15 14.1	2.228	3.148	7.9	22.1
3 2	8 23.91	+15 47.3	2.316	3.163	10.9	22.3

6705 Rinaketty 1 30.1 233.°41 0.°9/30.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.24	+13 40.8	1.635	2.418	17.2	18.1
1 2	9 12.18	+13 55.5	1.541	2.410	13.7	17.8
1 12	9 5.15	+14 24.8	1.467	2.401	9.4	17.6
1 22	8 55.71	+15 5.6	1.419	2.392	4.6	17.3
2 1	8 44.88	+15 52.9	1.398	2.383	1.2	17.0
2 11	8 34.08	+16 40.5	1.406	2.373	6.1	17.3
2 21	8 24.70	+17 22.8	1.440	2.362	11.1	17.5
3 2	8 17.87	+17 56.2	1.498	2.352	15.4	17.8

143524 2003 ET_{13} 1 30.1 334.°33 0.°2/29.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.78	+17 38.6	2.221	3.003	13.3	19.9
1 2	9 7.80	+17 44.0	2.128	2.998	10.4	19.7
1 12	9 1.68	+17 56.4	2.058	2.994	7.0	19.5
1 22	8 53.94	+18 13.1	2.015	2.990	3.2	19.2
2 1	8 45.35	+18 30.6	2.002	2.986	0.8	19.0
2 11	8 36.90	+18 45.7	2.018	2.983	4.8	19.3
2 21	8 29.50	+18 55.9	2.062	2.980	8.5	19.5
3 2	8 23.92	+18 59.7	2.131	2.977	11.8	19.7

236242 2005 YH_{66} 1 30.1 25.°90 2.°9/28.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.40	+20 24.1	1.164	1.991	20.1	20.1
1 2	9 10.84	+21 11.5	1.102	1.998	15.7	19.9
1 12	9 4.61	+22 11.3	1.059	2.006	10.5	19.6
1 22	8 55.50	+23 15.4	1.039	2.015	5.0	19.3
2 1	8 44.99	+24 13.5	1.043	2.024	3.5	19.3
2 11	8 34.95	+24 57.0	1.073	2.035	8.5	19.6
2 21	8 27.07	+25 21.5	1.125	2.046	13.6	19.9
3 2	8 22.49	+25 26.8	1.198	2.058	18.0	20.2

243232 2007 VJ_{93} 1 30.1 136.°75 1.°7/31.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.15	+11 36.4	2.678	3.427	12.1	20.9
1 2	9 8.32	+11 25.7	2.589	3.436	9.6	20.8
1 12	9 1.74	+11 23.4	2.524	3.444	6.7	20.6
1 22	8 53.89	+11 28.4	2.486	3.453	3.6	20.4
2 1	8 45.41	+11 38.8	2.479	3.460	1.8	20.3
2 11	8 37.09	+11 52.3	2.503	3.468	4.1	20.5
2 21	8 29.68	+12 6.5	2.557	3.475	7.1	20.7
3 2	8 23.76	+12 19.5	2.638	3.482	9.8	20.9

432164 2009 BM_{170} 1 30.1 22.°48 0.°5/29.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 8.44	+13 12.7	1.829	2.617	15.4	19.7
1 2	9 5.65	+14 31.9	1.751	2.625	12.0	19.5
1 12	9 0.48	+16 8.0	1.695	2.633	8.0	19.3
1 22	8 53.47	+17 55.4	1.667	2.642	3.6	19.1
2 1	8 45.49	+19 45.8	1.668	2.652	1.2	18.9
2 11	8 37.66	+21 30.4	1.698	2.662	5.7	19.2
2 21	8 31.03	+23 2.4	1.756	2.673	9.8	19.5
3 2	8 26.45	+24 17.3	1.839	2.684	13.4	19.7

259970 2004 FT_{28} 1 30.1 279.°42 18.°5/ 8.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.79	−17 12.4	1.280	1.949	26.4	20.3
1 2	9 10.33	−19 22.5	1.204	1.943	24.5	20.1
1 12	9 4.43	−20 58.6	1.140	1.937	22.4	19.9
1 22	8 55.59	−21 49.1	1.091	1.931	20.3	19.7
2 1	8 44.94	−21 44.5	1.058	1.925	18.9	19.6
2 11	8 34.17	−20 42.3	1.044	1.919	18.5	19.6
2 21	8 25.03	−18 49.2	1.048	1.913	19.5	19.6
3 2	8 18.96	−16 19.0	1.070	1.907	21.4	19.7

55315 2001 SJ_{65} 1 30.1 301.°83 4.°2/ 1.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.30	+ 6 44.0	1.460	2.236	19.2	18.1
1 2	9 9.34	+ 6 35.6	1.370	2.229	15.8	17.9
1 12	9 3.38	+ 6 48.2	1.300	2.222	11.6	17.6
1 22	8 54.96	+ 7 22.0	1.252	2.215	7.1	17.3
2 1	8 45.12	+ 8 14.2	1.230	2.208	4.2	17.1
2 11	8 35.33	+ 9 18.4	1.234	2.201	6.9	17.3
2 21	8 27.00	+10 27.1	1.264	2.194	11.5	17.5
3 2	8 21.29	+11 32.9	1.316	2.188	16.0	17.8

416884 2005 QF_{66} 1 30.1 141.°50 1.°7/29.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 19.46	+22 27.4	2.261	3.036	13.3	21.6
1 2	9 13.60	+22 39.9	2.180	3.047	10.3	21.4
1 12	9 5.45	+22 55.7	2.123	3.057	6.9	21.2
1 22	8 55.62	+23 10.6	2.094	3.067	3.3	21.0
2 1	8 45.01	+23 20.9	2.096	3.077	2.0	20.9
2 11	8 34.72	+23 23.4	2.128	3.086	5.3	21.1
2 21	8 25.70	+23 17.1	2.190	3.094	8.8	21.4
3 2	8 18.73	+23 2.1	2.277	3.101	11.9	21.6

130695 2000 SJ_{150} 1 30.1 133.°69 1.°5/29.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.85	+19 54.3	1.861	2.645	15.4	20.9
1 2	9 13.64	+20 25.2	1.785	2.657	12.0	20.7
1 12	9 5.74	+21 3.7	1.732	2.669	8.0	20.5
1 22	8 55.83	+21 44.6	1.706	2.680	3.7	20.2
2 1	8 44.96	+22 22.1	1.708	2.691	2.0	20.2
2 11	8 34.40	+22 51.3	1.741	2.701	6.0	20.4
2 21	8 25.33	+23 9.4	1.801	2.710	10.1	20.7
3 2	8 18.63	+23 15.8	1.885	2.719	13.6	20.9

441849 2009 WO_{20} 1 30.1 53.°05 0.°4/30.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.00	+16 13.7	1.210	2.019	20.6	21.0
1 2	9 14.10	+16 10.5	1.147	2.031	16.2	20.7
1 12	9 6.60	+16 20.6	1.103	2.044	11.0	20.5
1 22	8 56.35	+16 40.1	1.082	2.057	5.1	20.2
2 1	8 44.83	+17 3.0	1.085	2.070	1.2	19.9
2 11	8 33.88	+17 23.4	1.115	2.083	7.1	20.4
2 21	8 25.10	+17 37.3	1.169	2.097	12.5	20.7
3 2	8 19.57	+17 42.5	1.244	2.111	17.0	21.0

433891 2015 BY_{404} 1 30.1 192.°72 0.°5/29.7 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.18	+18 58.9	2.406	3.181	12.6	21.7
1 2	9 9.47	+19 5.5	2.313	3.180	9.8	21.5
1 12	9 2.70	+19 17.5	2.245	3.179	6.6	21.3
1 22	8 54.39	+19 32.0	2.204	3.178	3.0	21.0
2 1	8 45.31	+19 45.8	2.193	3.177	1.0	20.9
2 11	8 36.37	+19 56.0	2.213	3.176	4.6	21.1
2 21	8 28.47	+20 0.6	2.261	3.174	8.1	21.3
3 2	8 22.32	+19 58.6	2.336	3.172	11.2	21.5

98504 2000 VY_{15} 1 30.1 58.°44 0.°4/29.9 18 R

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.64	+15 40.8	1.373	2.175	19.0	18.9
1 2	9 11.80	+16 16.1	1.314	2.195	14.8	18.7
1 12	9 4.80	+17 5.9	1.275	2.215	9.9	18.5
1 22	8 55.46	+18 4.6	1.261	2.236	4.4	18.2
2 1	8 45.06	+19 4.3	1.273	2.257	1.3	18.1
2 11	8 35.19	+19 57.5	1.312	2.278	6.6	18.5
2 21	8 27.21	+20 39.0	1.376	2.299	11.4	18.8
3 2	8 22.05	+21 6.8	1.463	2.320	15.5	19.1

1668 Hanna 1 30.1 117.°43 1.°1/30.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.38	+12 6.8	2.365	3.124	13.2	17.3
1 2	9 8.73	+12 27.7	2.286	3.141	10.4	17.1
1 12	9 2.13	+12 59.5	2.231	3.157	7.1	17.0
1 22	8 54.10	+13 39.5	2.202	3.173	3.6	16.8
2 1	8 45.39	+14 24.1	2.204	3.188	1.2	16.6
2 11	8 36.89	+15 9.2	2.237	3.203	4.3	16.9
2 21	8 29.42	+15 51.2	2.299	3.217	7.7	17.1
3 2	8 23.65	+16 27.3	2.387	3.231	10.7	17.3

157369 2004 TE_{128} 1 30.1 100.°14 3.°7/27.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.02	+25 58.2	2.126	2.917	13.5	19.9
1 2	9 11.20	+26 55.3	2.059	2.934	10.5	19.8
1 12	9 3.97	+27 55.1	2.016	2.950	7.2	19.6
1 22	8 54.99	+28 51.4	2.000	2.967	4.3	19.4
2 1	8 45.18	+29 37.8	2.013	2.983	4.1	19.5
2 11	8 35.68	+30 9.9	2.056	2.998	6.8	19.7
2 21	8 27.51	+30 26.2	2.126	3.014	9.9	19.9
3 2	8 21.47	+30 27.1	2.220	3.029	12.7	20.1

12176 Hidayat 1 30.1 258.°09 1.°3/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.73	+18 47.9	1.765	2.556	15.8	19.1
1 2	9 11.70	+19 17.6	1.667	2.543	12.5	18.9
1 12	9 4.81	+19 57.5	1.590	2.529	8.4	18.6
1 22	8 55.58	+20 43.0	1.540	2.515	3.9	18.3
2 1	8 44.99	+21 28.1	1.517	2.500	1.9	18.1
2 11	8 34.40	+22 6.5	1.523	2.485	6.4	18.4
2 21	8 25.13	+22 34.1	1.556	2.470	11.0	18.6
3 2	8 18.30	+22 49.0	1.613	2.455	15.1	18.8

378437 2007 RJ_{269} 1 30.1 35.°57 1.°0/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.92	+19 28.6	2.005	2.794	14.2	20.8
1 2	9 8.86	+19 43.1	1.926	2.801	11.1	20.6
1 12	9 2.45	+20 4.2	1.870	2.809	7.4	20.4
1 22	8 54.31	+20 28.2	1.841	2.816	3.3	20.2
2 1	8 45.34	+20 50.7	1.841	2.824	1.4	20.1
2 11	8 36.64	+21 8.0	1.869	2.832	5.3	20.4
2 21	8 29.19	+21 17.5	1.925	2.841	9.2	20.6
3 2	8 23.77	+21 18.5	2.006	2.849	12.5	20.8

321512 2009 SY_{189} 1 30.1 246.°97 6.°7/26.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.72	+36 8.5	2.152	2.934	13.7	20.9
1 2	9 16.93	+36 57.9	2.060	2.920	11.2	20.7
1 12	9 8.16	+37 43.2	1.991	2.906	8.6	20.5
1 22	8 57.04	+38 16.2	1.949	2.891	6.9	20.4
2 1	8 44.67	+38 29.9	1.935	2.876	7.1	20.4
2 11	8 32.49	+38 20.3	1.949	2.860	9.2	20.4
2 21	8 21.87	+37 47.6	1.990	2.844	12.0	20.6
3 2	8 13.83	+36 55.3	2.053	2.827	14.8	20.7

465492 2008 TF_{112} 1 30.1 74.°04 7.°2/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.64	+37 47.4	2.071	2.856	14.0	21.1
1 2	9 15.80	+38 43.0	2.016	2.875	11.4	20.9
1 12	9 7.11	+39 31.5	1.984	2.894	8.9	20.8
1 22	8 56.40	+40 5.1	1.978	2.913	7.3	20.7
2 1	8 44.87	+40 17.5	1.999	2.932	7.5	20.8
2 11	8 33.93	+40 6.3	2.049	2.950	9.3	20.9
2 21	8 24.78	+39 33.3	2.123	2.969	11.7	21.1
3 2	8 18.23	+38 42.4	2.221	2.988	14.0	21.3

343023 2009 BG_{115} 1 30.1 306.°19 3.°2/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.27	+26 36.4	2.286	3.076	12.7	20.6
1 2	9 9.81	+27 4.8	2.197	3.071	9.9	20.4
1 12	9 3.08	+27 34.6	2.131	3.067	6.8	20.2
1 22	8 54.62	+28 1.1	2.093	3.062	4.0	20.0
2 1	8 45.28	+28 19.5	2.085	3.057	3.6	20.0
2 11	8 36.11	+28 26.4	2.106	3.053	6.2	20.1
2 21	8 28.11	+28 20.4	2.154	3.048	9.4	20.3
3 2	8 22.06	+28 2.1	2.227	3.044	12.4	20.5

358028 2006 FX_7 1 30.1 222.°85 5.°6/ 2.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.97	+ 0 25.8	2.117	2.833	15.8	21.8
1 2	9 9.69	+ 0 12.3	2.011	2.823	13.4	21.5
1 12	9 3.12	+ 0 17.8	1.924	2.812	10.4	21.3
1 22	8 54.72	+ 0 43.3	1.862	2.800	7.5	21.1
2 1	8 45.24	+ 1 28.3	1.828	2.788	5.6	21.0
2 11	8 35.71	+ 2 29.1	1.822	2.775	6.6	21.0
2 21	8 27.15	+ 3 40.2	1.846	2.761	9.5	21.2
3 2	8 20.43	+ 4 55.4	1.895	2.746	12.8	21.3

424148 2007 GY_{22} 1 30.1 206.°09 2.°5/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.57	+23 23.8	2.375	3.159	12.5	22.1
1 2	9 9.97	+24 4.0	2.283	3.155	9.7	21.9
1 12	9 3.16	+24 48.7	2.215	3.151	6.6	21.7
1 22	8 54.67	+25 33.1	2.175	3.146	3.4	21.5
2 1	8 45.28	+26 12.1	2.164	3.141	2.8	21.5
2 11	8 35.99	+26 41.7	2.184	3.136	5.7	21.6
2 21	8 27.76	+26 59.3	2.233	3.130	9.0	21.8
3 2	8 21.37	+27 4.6	2.306	3.124	12.0	22.0

174223 2002 RZ_{29} 1 30.1 188.°66 3.°0/ 1.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.55	+ 7 36.8	2.142	2.889	14.8	21.6
1 2	9 10.01	+ 7 34.3	2.046	2.888	12.0	21.4
1 12	9 3.22	+ 7 46.1	1.973	2.887	8.7	21.2
1 22	8 54.71	+ 8 11.3	1.925	2.885	5.2	21.0
2 1	8 45.27	+ 8 47.5	1.906	2.883	3.0	20.8
2 11	8 35.91	+ 9 30.8	1.916	2.880	5.2	20.9
2 21	8 27.60	+10 16.8	1.956	2.877	8.7	21.1
3 2	8 21.16	+11 1.2	2.022	2.873	12.1	21.3

152372 2005 UT_{169} 1 30.1 9.°98 0.°3/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.60	+17 2.9	1.811	2.600	15.5	20.3
1 2	9 9.72	+17 19.1	1.726	2.600	12.2	20.1
1 12	9 3.25	+17 45.3	1.664	2.601	8.2	19.9
1 22	8 54.78	+18 17.6	1.627	2.602	3.7	19.6
2 1	8 45.28	+18 51.3	1.618	2.602	1.0	19.4
2 11	8 35.96	+19 21.4	1.638	2.603	5.6	19.7
2 21	8 27.99	+19 44.4	1.685	2.604	9.9	20.0
3 2	8 22.26	+19 58.3	1.756	2.606	13.7	20.2

491744 2012 VM_{44} 1 30.1 87.°46 2.°5/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.73	+11 29.9	1.421	2.206	19.3	21.8
1 2	9 13.40	+11 18.5	1.350	2.217	15.4	21.5
1 12	9 5.93	+11 23.0	1.299	2.229	10.8	21.3
1 22	8 56.04	+11 41.7	1.271	2.240	5.7	21.0
2 1	8 44.99	+12 10.4	1.269	2.252	2.5	20.9
2 11	8 34.33	+12 43.7	1.295	2.263	6.4	21.1
2 21	8 25.47	+13 16.4	1.347	2.274	11.3	21.4
3 2	8 19.42	+13 44.3	1.422	2.285	15.5	21.7

166905 2003 AJ_{72} 1 30.1 20.°12 10.°2/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.40	+41 33.4	1.631	2.434	16.4	19.1
1 2	9 13.59	+42 56.0	1.582	2.445	13.8	18.9
1 12	9 6.21	+44 7.8	1.555	2.457	11.5	18.8
1 22	8 56.17	+44 58.1	1.551	2.470	10.3	18.8
2 1	8 44.98	+45 18.4	1.571	2.484	10.7	18.8
2 11	8 34.47	+45 5.6	1.615	2.499	12.5	19.0
2 21	8 26.18	+44 22.7	1.682	2.515	14.9	19.2
3 2	8 21.09	+43 15.7	1.768	2.532	17.2	19.4

285315 1998 YZ_{12} 1 30.1 87.°39 2.°3/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.84	+19 40.1	1.823	2.614	15.4	21.1
1 2	9 11.32	+20 47.8	1.759	2.636	11.9	21.0
1 12	9 4.21	+22 4.6	1.718	2.657	7.9	20.8
1 22	8 55.16	+23 23.8	1.704	2.678	3.8	20.5
2 1	8 45.21	+24 37.7	1.720	2.699	2.8	20.5
2 11	8 35.61	+25 39.6	1.764	2.720	6.4	20.8
2 21	8 27.47	+26 25.8	1.836	2.740	10.2	21.1
3 2	8 21.65	+26 55.5	1.932	2.760	13.6	21.3

273261 2006 KK_{118} 1 30.1 148.°04 3.°9/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.01	+30 37.9	2.950	3.729	10.4	21.1
1 2	9 9.87	+31 32.2	2.874	3.739	8.2	20.9
1 12	9 2.85	+32 25.7	2.824	3.749	5.9	20.8
1 22	8 54.45	+33 13.4	2.803	3.758	4.2	20.7
2 1	8 45.38	+33 50.9	2.812	3.767	4.3	20.7
2 11	8 36.48	+34 15.2	2.852	3.775	6.1	20.8
2 21	8 28.54	+34 25.1	2.919	3.783	8.3	21.0
3 2	8 22.21	+34 21.5	3.012	3.790	10.4	21.2

10307 1990 QX_1 1 30.1 48.°26 0.°8/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.86	+17 13.9	1.188	2.002	20.6	17.5
1 2	9 13.13	+17 37.8	1.136	2.024	16.0	17.3
1 12	9 5.87	+18 15.4	1.103	2.046	10.7	17.0
1 22	8 56.00	+19 0.3	1.093	2.069	4.8	16.8
2 1	8 45.03	+19 44.7	1.108	2.093	1.6	16.6
2 11	8 34.78	+20 21.2	1.149	2.117	7.2	17.1
2 21	8 26.74	+20 45.7	1.215	2.141	12.4	17.4
3 2	8 21.88	+20 56.9	1.302	2.165	16.7	17.7

168309 2167 $T\text{-}_3$ 1 30.1 63.°75 2.°8/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.58	+23 4.8	1.458	2.263	17.9	19.8
1 2	9 14.85	+23 26.8	1.395	2.278	13.9	19.6
1 12	9 6.84	+23 54.1	1.353	2.294	9.3	19.4
1 22	8 56.42	+24 20.3	1.336	2.309	4.6	19.1
2 1	8 44.93	+24 38.6	1.345	2.325	3.2	19.1
2 11	8 34.03	+24 44.5	1.382	2.341	7.4	19.4
2 21	8 25.12	+24 36.5	1.444	2.357	11.8	19.7
3 2	8 19.16	+24 15.9	1.529	2.373	15.7	20.0

140821 2001 UA_{164} 1 30.1 311.°87 3.°7/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.12	+26 13.9	2.245	3.040	12.7	19.6
1 2	9 8.27	+27 10.7	2.159	3.036	9.9	19.4
1 12	9 2.15	+28 11.1	2.096	3.032	6.9	19.2
1 22	8 54.25	+29 9.1	2.062	3.028	4.2	19.1
2 1	8 45.42	+29 58.7	2.056	3.024	4.1	19.0
2 11	8 36.70	+30 35.2	2.079	3.021	6.7	19.2
2 21	8 29.09	+30 56.1	2.130	3.017	9.9	19.4
3 2	8 23.42	+31 1.4	2.204	3.014	12.7	19.6

81895 2000 LP_{31} 1 30.1 289.°92 6.°4/ 2.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.64	+ 0 4.3	2.377	3.083	14.5	18.4
1 2	9 9.09	− 1 2.6	2.276	3.077	12.4	18.3
1 12	9 2.52	− 1 56.1	2.198	3.072	10.0	18.1
1 22	8 54.39	− 2 34.0	2.144	3.066	7.7	17.9
2 1	8 45.41	− 2 54.7	2.118	3.060	6.5	17.9
2 11	8 36.46	− 2 58.9	2.121	3.055	7.1	17.9
2 21	8 28.41	− 2 49.0	2.151	3.050	9.2	18.0
3 2	8 22.01	− 2 28.7	2.207	3.044	11.7	18.2

421419 2013 WL_{54} 1 30.1 137.°57 3.°3/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.63	+27 9.1	2.474	3.258	12.0	21.2
1 2	9 10.62	+27 45.5	2.395	3.266	9.4	21.0
1 12	9 3.48	+28 22.8	2.340	3.273	6.5	20.8
1 22	8 54.78	+28 56.2	2.314	3.280	3.9	20.7
2 1	8 45.33	+29 21.1	2.317	3.286	3.6	20.7
2 11	8 36.12	+29 34.3	2.350	3.293	6.0	20.8
2 21	8 28.03	+29 34.5	2.412	3.299	8.9	21.0
3 2	8 21.80	+29 22.4	2.498	3.305	11.5	21.2

499918 2011 GV_{78} 1 30.1 353.°97 1.°7/28.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 9.28	+17 26.1	1.687	2.490	15.9	21.0
1 2	9 6.67	+18 30.9	1.604	2.487	12.4	20.7
1 12	9 1.41	+19 49.9	1.542	2.484	8.3	20.5
1 22	8 54.03	+21 16.9	1.506	2.482	3.8	20.2
2 1	8 45.49	+22 43.8	1.498	2.480	2.3	20.1
2 11	8 37.04	+24 2.4	1.518	2.480	6.6	20.4
2 21	8 29.91	+25 6.5	1.565	2.479	11.0	20.6
3 2	8 25.09	+25 53.0	1.635	2.480	14.8	20.9

171947 2001 SK_{281} 1 30.1 98.°07 1.°2/31.0 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.25	+12 34.1	2.546	3.304	12.4	20.6
1 2	9 7.72	+12 40.3	2.467	3.321	9.8	20.4
1 12	9 1.40	+12 55.6	2.412	3.338	6.7	20.2
1 22	8 53.79	+13 18.1	2.385	3.354	3.4	20.0
2 1	8 45.59	+13 44.9	2.388	3.371	1.3	19.9
2 11	8 37.60	+14 13.0	2.421	3.387	4.0	20.1
2 21	8 30.57	+14 39.6	2.484	3.403	7.2	20.4
3 2	8 25.08	+15 2.4	2.573	3.418	10.0	20.6

420015 2011 CQ_{74} 1 30.1 334.°06 1.°8/28.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.19	+19 6.4	1.720	2.522	15.7	20.3
1 2	9 8.15	+19 52.5	1.633	2.515	12.3	20.1
1 12	9 2.40	+20 49.6	1.567	2.509	8.2	19.8
1 22	8 54.49	+21 52.4	1.527	2.503	3.8	19.6
2 1	8 45.40	+22 53.8	1.515	2.497	2.3	19.5
2 11	8 36.39	+23 47.0	1.531	2.492	6.6	19.7
2 21	8 28.73	+24 27.3	1.573	2.487	10.9	19.9
3 2	8 23.40	+24 52.5	1.638	2.483	14.8	20.2

5479 Grahamryder 1 30.1 157.°10 5.°6/ 3.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.24	− 1 34.5	2.388	3.085	14.7	18.4
1 2	9 8.69	− 1 49.6	2.296	3.093	12.4	18.2
1 12	9 2.18	− 1 46.7	2.225	3.100	9.8	18.0
1 22	8 54.21	− 1 25.1	2.180	3.107	7.3	17.9
2 1	8 45.48	− 0 45.7	2.162	3.113	5.7	17.8
2 11	8 36.87	+ 0 8.4	2.173	3.118	6.3	17.8
2 21	8 29.18	+ 1 12.4	2.214	3.123	8.5	18.0
3 2	8 23.13	+ 2 20.9	2.281	3.127	11.1	18.2

422905 2002 RN_{185} 1 30.1 141.°70 0.°2/29.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.95	+17 54.9	2.604	3.370	11.9	21.0
1 2	9 9.83	+17 58.9	2.517	3.379	9.3	20.9
1 12	9 2.83	+18 8.2	2.455	3.387	6.2	20.7
1 22	8 54.46	+18 20.4	2.421	3.395	2.8	20.5
2 1	8 45.44	+18 32.7	2.418	3.403	0.7	20.3
2 11	8 36.61	+18 42.4	2.446	3.410	4.2	20.6
2 21	8 28.77	+18 47.8	2.504	3.417	7.5	20.8
3 2	8 22.55	+18 47.8	2.589	3.423	10.3	21.0

110223 2001 SL_{224} 1 30.1 18.°72 1.°3/29.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.30	+18 37.2	1.653	2.452	16.4	19.8
1 2	9 9.77	+19 8.7	1.573	2.454	12.8	19.6
1 12	9 3.44	+19 50.5	1.516	2.456	8.5	19.3
1 22	8 54.94	+20 37.6	1.483	2.459	3.9	19.1
2 1	8 45.31	+21 23.6	1.478	2.462	1.8	18.9
2 11	8 35.92	+22 2.6	1.501	2.465	6.3	19.2
2 21	8 28.00	+22 30.4	1.551	2.468	10.8	19.5
3 2	8 22.54	+22 45.5	1.623	2.472	14.7	19.7

184201 2004 PE_{71} 1 30.1 286.°25 1.°7/31.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.59	+ 9 39.2	1.912	2.680	15.6	20.5
1 2	9 8.36	+10 12.2	1.794	2.652	12.6	20.2
1 12	9 2.59	+11 3.9	1.697	2.624	8.9	19.9
1 22	8 54.66	+12 12.6	1.626	2.595	4.7	19.6
2 1	8 45.34	+13 33.8	1.583	2.566	1.7	19.4
2 11	8 35.77	+15 0.7	1.570	2.537	5.5	19.5
2 21	8 27.13	+16 26.0	1.584	2.508	10.2	19.7
3 2	8 20.52	+17 43.5	1.624	2.478	14.4	19.9

197196 Jamestaylor 1 30.1 105.°62 4.°0/27.0 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.95	+27 47.1	2.315	3.105	12.6	20.2
1 2	9 10.28	+28 47.4	2.245	3.118	9.8	20.1
1 12	9 3.36	+29 49.1	2.199	3.131	6.8	19.9
1 22	8 54.77	+30 46.1	2.181	3.144	4.4	19.8
2 1	8 45.38	+31 32.6	2.193	3.157	4.4	19.8
2 11	8 36.24	+32 4.4	2.234	3.170	6.8	20.0
2 21	8 28.30	+32 20.1	2.303	3.182	9.6	20.2
3 2	8 22.33	+32 20.2	2.396	3.194	12.2	20.4

144429 2004 EK_{28} 1 30.1 191.°95 1.°4/31.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 10.21	+10 54.4	2.766	3.518	11.7	21.2
1 2	9 6.16	+11 9.7	2.667	3.517	9.3	21.0
1 12	9 0.41	+11 35.2	2.593	3.515	6.5	20.8
1 22	8 53.39	+12 9.0	2.546	3.513	3.4	20.6
2 1	8 45.70	+12 48.6	2.529	3.511	1.4	20.4
2 11	8 38.08	+13 30.5	2.543	3.509	3.9	20.6
2 21	8 31.23	+14 11.6	2.587	3.506	6.9	20.8
3 2	8 25.75	+14 49.1	2.658	3.503	9.7	21.0

198562 2004 XQ_{153} 1 30.1 164.°40 0.°2/30.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.13	+15 33.1	2.245	3.017	13.4	21.4
1 2	9 8.82	+15 48.2	2.155	3.019	10.5	21.2
1 12	9 2.39	+16 12.2	2.089	3.021	7.1	21.0
1 22	8 54.35	+16 42.3	2.049	3.023	3.3	20.8
2 1	8 45.48	+17 14.9	2.039	3.024	0.7	20.6
2 11	8 36.75	+17 46.0	2.060	3.025	4.7	20.9
2 21	8 29.08	+18 12.4	2.109	3.026	8.4	21.1
3 2	8 23.21	+18 32.2	2.183	3.027	11.6	21.3

323471 2004 LY_{1} 1 30.1 148.°06 0.°9/30.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.56	+11 30.9	2.994	3.736	11.1	22.0
1 2	9 8.51	+12 3.4	2.905	3.750	8.7	21.9
1 12	9 1.85	+12 45.3	2.842	3.764	6.0	21.7
1 22	8 54.00	+13 34.2	2.807	3.776	3.0	21.5
2 1	8 45.57	+14 27.0	2.804	3.788	1.0	21.4
2 11	8 37.27	+15 20.0	2.834	3.799	3.6	21.6
2 21	8 29.74	+16 10.0	2.895	3.809	6.5	21.8
3 2	8 23.57	+16 54.6	2.984	3.818	9.1	22.0

421809 2014 QG_{38} 1 30.1 212.°15 0.°4/30.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.58	+15 16.2	2.088	2.855	14.5	22.1
1 2	9 12.58	+15 27.6	1.987	2.848	11.5	21.9
1 12	9 5.10	+15 48.7	1.909	2.840	7.8	21.6
1 22	8 55.68	+16 16.9	1.858	2.831	3.7	21.4
2 1	8 45.16	+16 48.1	1.837	2.821	0.8	21.1
2 11	8 34.69	+17 18.0	1.846	2.811	5.2	21.4
2 21	8 25.35	+17 43.3	1.884	2.800	9.3	21.6
3 2	8 18.07	+18 1.6	1.947	2.788	12.9	21.8

134318 1141 $T\text{-}_{2}$ 1 30.1 145.°34 0.°9/30.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.86	+13 16.5	2.050	2.814	14.8	21.4
1 2	9 11.84	+13 33.6	1.967	2.825	11.7	21.2
1 12	9 4.46	+14 2.2	1.907	2.836	8.0	21.0
1 22	8 55.31	+14 39.3	1.874	2.845	3.9	20.8
2 1	8 45.27	+15 20.9	1.870	2.854	1.1	20.6
2 11	8 35.45	+16 2.1	1.897	2.863	5.0	20.9
2 21	8 26.87	+16 39.2	1.952	2.870	8.9	21.1
3 2	8 20.32	+17 9.4	2.033	2.877	12.3	21.4

65144 2002 CO_{113} 1 30.1 112.°41 4.°8/27.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 21.04	+27 27.5	1.673	2.471	16.3	19.4
1 2	9 15.83	+28 23.0	1.607	2.485	12.7	19.2
1 12	9 7.48	+29 20.7	1.563	2.498	8.9	19.0
1 22	8 56.77	+30 12.3	1.545	2.511	5.5	18.8
2 1	8 44.96	+30 49.8	1.555	2.524	5.3	18.8
2 11	8 33.61	+31 7.9	1.593	2.536	8.4	19.0
2 21	8 24.10	+31 6.0	1.657	2.547	12.0	19.3
3 2	8 17.42	+30 46.2	1.744	2.559	15.4	19.5

168023 2005 JX_{46} 1 30.1 159.°71 1.°0/29.3 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.11	+19 20.9	2.585	3.362	11.8	20.8
1 2	9 7.78	+19 50.4	2.497	3.365	9.1	20.6
1 12	9 1.57	+20 25.8	2.433	3.368	6.1	20.4
1 22	8 53.95	+21 3.8	2.396	3.371	2.8	20.2
2 1	8 45.62	+21 40.4	2.391	3.373	1.4	20.1
2 11	8 37.41	+22 12.1	2.415	3.376	4.6	20.4
2 21	8 30.13	+22 36.2	2.469	3.378	7.8	20.6
3 2	8 24.44	+22 51.6	2.549	3.380	10.6	20.7

90830 Beihang 1 30.1 103.°31 0.°8/30.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.91	+14 48.3	2.027	2.801	14.7	20.3
1 2	9 10.36	+14 47.6	1.944	2.808	11.5	20.1
1 12	9 3.49	+14 56.2	1.884	2.815	7.9	19.9
1 22	8 54.87	+15 11.7	1.850	2.822	3.8	19.6
2 1	8 45.41	+15 31.0	1.845	2.829	1.0	19.4
2 11	8 36.17	+15 50.3	1.869	2.836	4.9	19.7
2 21	8 28.16	+16 6.7	1.922	2.842	8.9	20.0
3 2	8 22.17	+16 18.1	2.000	2.849	12.3	20.2

11244 Andrékuipers 1 30.1 49.°39 1.°6/29.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.04	+18 8.4	1.342	2.152	18.9	17.7
1 2	9 11.53	+18 51.4	1.282	2.169	14.7	17.4
1 12	9 4.78	+19 47.0	1.243	2.186	9.7	17.2
1 22	8 55.58	+20 48.5	1.227	2.203	4.4	16.9
2 1	8 45.25	+21 47.5	1.238	2.221	2.2	16.8
2 11	8 35.42	+22 36.2	1.276	2.240	7.1	17.2
2 21	8 27.52	+23 10.2	1.338	2.258	11.9	17.5
3 2	8 22.53	+23 28.3	1.422	2.277	16.0	17.8

490397 2009 QH_{40} 1 30.1 102.°08 0.°5/30.6 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 7.99	+14 5.5	3.556	4.311	9.2	22.0
1 2	9 3.97	+14 22.1	3.475	4.329	7.2	21.9
1 12	8 58.70	+14 44.9	3.419	4.346	4.9	21.8
1 22	8 52.54	+15 11.9	3.391	4.363	2.3	21.6
2 1	8 45.97	+15 41.0	3.395	4.380	0.6	21.5
2 11	8 39.53	+16 10.0	3.431	4.396	3.0	21.7
2 21	8 33.72	+16 36.8	3.497	4.412	5.4	21.9
3 2	8 28.97	+16 59.9	3.590	4.429	7.6	22.1

54319 2000 JG_{76} 1 30.1 265.°28 6.°0/ 2.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.95	+ 1 19.5	1.921	2.654	16.7	19.3
1 2	9 8.35	+ 0 50.8	1.822	2.645	14.1	19.1
1 12	9 2.36	+ 0 40.9	1.743	2.636	11.0	18.9
1 22	8 54.47	+ 0 51.4	1.687	2.627	7.9	18.7
2 1	8 45.49	+ 1 22.1	1.657	2.618	6.0	18.6
2 11	8 36.51	+ 2 9.6	1.656	2.609	7.1	18.6
2 21	8 28.59	+ 3 8.6	1.681	2.600	10.1	18.8
3 2	8 22.66	+ 4 13.1	1.731	2.590	13.4	18.9

456306 2006 ST_{171} 1 30.1 40.°53 4.°7/28.1 16

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.62	+27 25.0	1.456	2.268	17.6	21.5
1 2	9 14.29	+27 59.0	1.394	2.279	13.8	21.3
1 12	9 6.60	+28 34.5	1.352	2.291	9.5	21.1
1 22	8 56.40	+29 3.6	1.334	2.303	5.7	20.9
2 1	8 45.08	+29 18.7	1.343	2.316	5.1	20.9
2 11	8 34.34	+29 15.6	1.379	2.329	8.5	21.1
2 21	8 25.65	+28 54.1	1.439	2.342	12.6	21.4
3 2	8 19.98	+28 17.0	1.522	2.356	16.2	21.6

301738 2010 GH_{157} 1 30.1 326.°87 4.°0/28.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.82	+22 30.2	1.277	2.101	18.8	20.6
1 2	9 10.55	+23 26.0	1.195	2.090	14.8	20.3
1 12	9 4.67	+24 33.4	1.133	2.079	10.1	20.0
1 22	8 55.79	+25 44.2	1.095	2.069	5.4	19.7
2 1	8 45.17	+26 47.9	1.081	2.059	4.6	19.6
2 11	8 34.64	+27 34.7	1.093	2.050	9.2	19.9
2 21	8 25.99	+27 59.7	1.128	2.042	14.3	20.1
3 2	8 20.59	+28 2.6	1.183	2.034	18.8	20.4

134441 1998 SK_{36} 1 30.1 56.°50 2.°9/28.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.22	+20 54.7	1.439	2.244	18.1	19.4
1 2	9 13.62	+21 57.7	1.393	2.277	13.9	19.2
1 12	9 5.92	+23 9.1	1.369	2.310	9.2	19.0
1 22	8 56.00	+24 20.4	1.370	2.344	4.5	18.8
2 1	8 45.20	+25 22.7	1.398	2.377	3.4	18.8
2 11	8 35.10	+26 9.4	1.454	2.410	7.4	19.2
2 21	8 26.98	+26 37.9	1.535	2.444	11.6	19.5
3 2	8 21.69	+26 48.9	1.639	2.477	15.1	19.8

451019 2008 UX_{268} 1 30.1 122.°71 4.°6/ 1.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.49	+ 4 36.7	1.732	2.479	17.8	22.0
1 2	9 11.90	+ 4 25.1	1.655	2.492	14.6	21.8
1 12	9 4.69	+ 4 32.9	1.597	2.505	10.8	21.6
1 22	8 55.49	+ 4 59.7	1.564	2.518	7.0	21.4
2 1	8 45.30	+ 5 43.2	1.558	2.530	4.6	21.3
2 11	8 35.37	+ 6 38.0	1.580	2.542	6.4	21.4
2 21	8 26.85	+ 7 38.2	1.630	2.553	10.0	21.6
3 2	8 20.62	+ 8 37.6	1.705	2.563	13.6	21.9

13375 1998 VH_{26} 1 30.1 286.°57 0.°3/29.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.53	+17 8.4	2.125	2.907	13.8	18.4
1 2	9 8.58	+17 25.4	2.031	2.902	10.8	18.2
1 12	9 2.37	+17 50.8	1.961	2.897	7.3	18.0
1 22	8 54.42	+18 21.6	1.917	2.892	3.3	17.7
2 1	8 45.54	+18 53.6	1.902	2.887	0.9	17.5
2 11	8 36.77	+19 22.7	1.917	2.882	5.0	17.8
2 21	8 29.08	+19 45.7	1.959	2.877	8.9	18.1
3 2	8 23.29	+20 0.6	2.027	2.872	12.3	18.3

156285 2001 WG_{12} 1 30.1 151.°43 0.°8/30.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.32	+13 9.3	1.875	2.644	15.8	21.5
1 2	9 12.48	+13 33.2	1.792	2.653	12.5	21.3
1 12	9 5.06	+14 10.4	1.731	2.661	8.5	21.1
1 22	8 55.67	+14 57.4	1.696	2.669	4.1	20.9
2 1	8 45.26	+15 49.3	1.691	2.675	1.0	20.6
2 11	8 35.06	+16 40.3	1.715	2.681	5.4	21.0
2 21	8 26.20	+17 25.8	1.768	2.687	9.6	21.2
3 2	8 19.57	+18 2.7	1.846	2.692	13.3	21.5

77889 2001 SM_{192} 1 30.1 306.°67 0.°1/30.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.13	+16 12.6	2.103	2.886	13.9	19.0
1 2	9 7.59	+16 27.5	2.002	2.872	10.9	18.8
1 12	9 1.79	+16 51.8	1.924	2.859	7.4	18.5
1 22	8 54.19	+17 22.7	1.872	2.846	3.4	18.3
2 1	8 45.60	+17 56.3	1.848	2.833	0.8	18.0
2 11	8 37.04	+18 28.3	1.854	2.820	5.0	18.3
2 21	8 29.50	+18 55.1	1.888	2.808	9.0	18.5
3 2	8 23.85	+19 14.3	1.947	2.796	12.6	18.7

125969 2001 YL_{13} 1 30.1 237.°40 2.°6/28.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.67	+21 29.5	1.852	2.641	15.2	20.5
1 2	9 13.23	+22 19.7	1.753	2.628	12.0	20.2
1 12	9 5.90	+23 19.1	1.676	2.614	8.1	20.0
1 22	8 56.21	+24 21.5	1.626	2.599	4.1	19.7
2 1	8 45.11	+25 19.7	1.605	2.584	3.1	19.6
2 11	8 33.97	+26 6.7	1.613	2.568	7.0	19.8
2 21	8 24.12	+26 38.4	1.648	2.551	11.3	20.0
3 2	8 16.70	+26 53.9	1.707	2.534	15.1	20.2

440938 2006 YE_4 1 30.1 145.°22 8.°4/ 2.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 24.36	− 1 12.9	1.874	2.569	18.3	21.2
1 2	9 17.84	− 2 43.3	1.790	2.582	15.6	21.0
1 12	9 8.61	− 3 56.7	1.728	2.594	12.6	20.8
1 22	8 57.29	− 4 48.9	1.690	2.605	9.9	20.7
2 1	8 44.90	− 5 17.2	1.679	2.615	8.4	20.6
2 11	8 32.73	− 5 22.0	1.697	2.625	9.2	20.7
2 21	8 21.99	− 5 7.0	1.743	2.633	11.5	20.8
3 2	8 13.63	− 4 37.9	1.813	2.640	14.3	21.0

205228 2000 QH_{100} 1 30.1 85.°66 3.°0/28.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 20.52	+22 26.7	1.589	2.385	17.1	20.2
1 2	9 15.29	+23 14.0	1.531	2.410	13.2	20.0
1 12	9 7.02	+24 7.5	1.495	2.434	8.8	19.8
1 22	8 56.53	+25 0.1	1.485	2.458	4.5	19.6
2 1	8 45.10	+25 44.0	1.503	2.482	3.4	19.6
2 11	8 34.24	+26 13.8	1.550	2.505	7.2	19.9
2 21	8 25.26	+26 27.4	1.623	2.528	11.3	20.2
3 2	8 19.04	+26 25.9	1.719	2.550	14.8	20.4

19349 Denjoy 1 30.1 154.°19 1.°4/31.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.88	+11 22.2	2.097	2.864	14.4	18.5
1 2	9 8.03	+11 41.2	2.007	2.865	11.5	18.3
1 12	9 1.98	+12 13.3	1.939	2.867	8.0	18.1
1 22	8 54.24	+12 56.1	1.898	2.868	4.1	17.9
2 1	8 45.62	+13 46.0	1.886	2.869	1.5	17.7
2 11	8 37.11	+14 37.8	1.903	2.870	4.8	17.9
2 21	8 29.66	+15 27.2	1.949	2.871	8.6	18.1
3 2	8 24.07	+16 10.5	2.020	2.872	12.1	18.3

459691 2013 NY_{12} 1 30.1 173.°08 2.°2/31.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.70	+11 4.3	2.307	3.056	13.8	22.0
1 2	9 11.49	+10 46.9	2.213	3.059	11.0	21.8
1 12	9 4.14	+10 39.2	2.142	3.061	7.8	21.6
1 22	8 55.19	+10 40.2	2.098	3.063	4.3	21.4
2 1	8 45.41	+10 48.3	2.084	3.064	2.2	21.3
2 11	8 35.78	+11 0.6	2.101	3.065	4.7	21.5
2 21	8 27.20	+11 14.6	2.147	3.066	8.2	21.7
3 2	8 20.43	+11 27.9	2.220	3.065	11.4	21.9

425716 2011 BX_{28} 1 30.1 92.°88 2.°4/28.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.13	+20 20.4	2.082	2.865	14.0	21.9
1 2	9 11.26	+21 35.0	2.019	2.891	10.8	21.7
1 12	9 4.06	+22 57.1	1.980	2.917	7.1	21.5
1 22	8 55.14	+24 20.3	1.970	2.943	3.5	21.4
2 1	8 45.43	+25 37.3	1.990	2.968	2.8	21.4
2 11	8 36.03	+26 42.4	2.040	2.992	6.0	21.6
2 21	8 27.92	+27 32.1	2.119	3.016	9.4	21.9
3 2	8 21.88	+28 5.7	2.222	3.039	12.4	22.1

226008 2002 EM_{32} 1 30.1 290.°05 2.°1/28.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.20	+21 27.8	1.964	2.757	14.4	20.7
1 2	9 10.11	+22 1.4	1.879	2.756	11.2	20.5
1 12	9 3.52	+22 41.6	1.816	2.754	7.5	20.2
1 22	8 54.99	+23 23.4	1.779	2.753	3.7	20.0
2 1	8 45.45	+24 1.2	1.771	2.752	2.5	19.9
2 11	8 36.08	+24 30.2	1.792	2.750	6.1	20.1
2 21	8 27.97	+24 47.4	1.841	2.749	10.0	20.4
3 2	8 22.02	+24 52.2	1.913	2.748	13.4	20.6

21174 1994 CG_{12} 1 30.1 223.°17 1.°8/29.0 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.74	+20 5.1	1.954	2.739	14.7	19.2
1 2	9 12.22	+20 42.3	1.858	2.731	11.5	18.9
1 12	9 5.04	+21 28.0	1.785	2.722	7.8	18.7
1 22	8 55.75	+22 17.2	1.739	2.713	3.7	18.4
2 1	8 45.27	+23 3.9	1.722	2.703	2.2	18.3
2 11	8 34.83	+23 42.4	1.734	2.693	6.2	18.5
2 21	8 25.64	+24 9.3	1.774	2.682	10.3	18.7
3 2	8 18.68	+24 23.1	1.839	2.671	13.9	19.0

279915 2001 RF_9 1 30.1 121.°72 7.°6/ 5.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.08	− 9 40.0	2.914	3.545	13.5	20.8
1 2	9 8.20	−10 40.2	2.830	3.560	11.9	20.7
1 12	9 1.70	−11 23.8	2.766	3.575	10.2	20.6
1 22	8 54.00	−11 48.4	2.726	3.590	8.6	20.5
2 1	8 45.71	−11 52.8	2.713	3.604	7.7	20.5
2 11	8 37.53	−11 37.9	2.728	3.618	7.8	20.5
2 21	8 30.14	−11 6.7	2.769	3.632	8.8	20.6
3 2	8 24.11	−10 23.3	2.837	3.645	10.2	20.7

466171 2012 JQ_{27} 1 30.1 195.°81 1.°7/28.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.47	+19 56.5	2.071	2.859	13.9	21.7
1 2	9 9.42	+20 38.4	1.984	2.858	10.8	21.4
1 12	9 3.00	+21 28.3	1.919	2.857	7.2	21.2
1 22	8 54.75	+22 21.4	1.882	2.856	3.4	21.0
2 1	8 45.53	+23 12.1	1.874	2.855	2.1	20.9
2 11	8 36.43	+23 55.0	1.896	2.854	5.7	21.1
2 21	8 28.50	+24 26.9	1.945	2.853	9.5	21.3
3 2	8 22.57	+24 46.1	2.019	2.852	12.8	21.6

345614 2006 SZ_{209} 1 30.1 354.°96 1.°3/29.2 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.55	+20 9.4	2.263	3.050	12.9	21.2
1 2	9 7.68	+20 36.1	2.175	3.049	10.0	21.0
1 12	9 1.70	+21 9.0	2.110	3.048	6.7	20.7
1 22	8 54.11	+21 44.3	2.073	3.047	3.1	20.5
2 1	8 45.69	+22 17.7	2.065	3.047	1.7	20.4
2 11	8 37.42	+22 45.1	2.086	3.047	5.1	20.6
2 21	8 30.19	+23 3.9	2.136	3.047	8.6	20.9
3 2	8 24.76	+23 12.9	2.211	3.047	11.8	21.1

187106 2005 QW_{42} 1 30.1 288.°64 10.°4/25.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 29.66	+44 39.2	1.828	2.601	16.0	19.9
1 2	9 23.18	+45 36.8	1.755	2.595	13.7	19.7
1 12	9 12.76	+46 22.1	1.704	2.590	11.6	19.5
1 22	8 59.32	+46 44.1	1.676	2.584	10.4	19.4
2 1	8 44.50	+46 34.0	1.674	2.579	10.8	19.5
2 11	8 30.37	+45 48.8	1.698	2.574	12.5	19.5
2 21	8 18.72	+44 32.3	1.745	2.569	14.9	19.7
3 2	8 10.67	+42 52.3	1.814	2.563	17.3	19.8

83055 2001 QN_{202} 1 30.1 46.°92 1.°2/29.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.96	+18 58.9	2.054	2.843	14.0	19.2
1 2	9 8.14	+19 31.5	1.976	2.852	10.8	19.0
1 12	9 2.05	+20 11.8	1.922	2.860	7.2	18.8
1 22	8 54.28	+20 55.7	1.894	2.869	3.3	18.6
2 1	8 45.67	+21 38.0	1.896	2.879	1.6	18.5
2 11	8 37.29	+22 14.2	1.926	2.888	5.4	18.8
2 21	8 30.10	+22 41.1	1.984	2.898	9.1	19.0
3 2	8 24.86	+22 57.3	2.067	2.907	12.3	19.2

118009 1271 $T\text{-}2$ 1 30.1 123.°21 0.°2/30.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.78	+15 14.5	1.912	2.685	15.4	20.7
1 2	9 12.71	+15 35.0	1.836	2.701	12.1	20.5
1 12	9 5.13	+16 6.2	1.783	2.716	8.1	20.3
1 22	8 55.69	+16 44.4	1.757	2.730	3.8	20.1
2 1	8 45.36	+17 24.7	1.760	2.744	0.8	19.9
2 11	8 35.33	+18 2.3	1.792	2.758	5.3	20.2
2 21	8 26.68	+18 33.4	1.853	2.770	9.3	20.5
3 2	8 20.25	+18 56.1	1.939	2.782	12.9	20.7

122803 2000 SN_{98} 1 30.1 88.°44 1.°5/31.0 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.34	+12 20.2	1.954	2.724	15.3	20.3
1 2	9 9.97	+12 25.2	1.877	2.737	12.1	20.1
1 12	9 3.26	+12 42.2	1.823	2.751	8.3	19.9
1 22	8 54.83	+13 8.9	1.794	2.764	4.2	19.7
2 1	8 45.56	+13 41.7	1.794	2.777	1.5	19.5
2 11	8 36.57	+14 16.3	1.823	2.790	5.0	19.8
2 21	8 28.83	+14 48.6	1.880	2.803	8.9	20.0
3 2	8 23.13	+15 15.9	1.963	2.816	12.3	20.2

304847 2007 RY_{52} 1 30.1 195.°88 0.°5/30.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.25	+15 38.4	1.732	2.514	16.4	20.9
1 2	9 12.76	+15 40.8	1.644	2.513	13.0	20.6
1 12	9 5.45	+15 53.8	1.578	2.512	8.9	20.4
1 22	8 55.95	+16 14.4	1.537	2.510	4.2	20.1
2 1	8 45.29	+16 38.4	1.524	2.509	1.0	19.9
2 11	8 34.80	+17 1.2	1.540	2.507	5.8	20.2
2 21	8 25.74	+17 19.1	1.583	2.505	10.3	20.5
3 2	8 19.11	+17 30.1	1.650	2.502	14.3	20.7

104997 2000 KS_2 1 30.1 179.°90 5.°6/ 5.1 18 R

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 9.35	− 7 5.9	3.348	3.996	11.6	20.2
1 2	9 5.20	− 7 15.7	3.245	3.997	10.1	20.1
1 12	8 59.66	− 7 10.1	3.163	3.998	8.4	20.0
1 22	8 53.09	− 6 48.2	3.106	3.998	6.7	19.9
2 1	8 45.98	− 6 10.2	3.076	3.998	5.7	19.8
2 11	8 38.91	− 5 18.1	3.076	3.997	5.8	19.8
2 21	8 32.44	− 4 15.2	3.106	3.996	7.0	19.9
3 2	8 27.09	− 3 5.7	3.163	3.994	8.7	20.0

462863 2010 VC_{42} 1 30.1 78.°26 0.°1/30.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.46	+16 29.6	1.737	2.524	16.2	22.1
1 2	9 11.24	+16 43.0	1.659	2.532	12.7	21.9
1 12	9 4.34	+17 6.8	1.604	2.540	8.5	21.6
1 22	8 55.40	+17 37.3	1.573	2.548	3.9	21.4
2 1	8 45.45	+18 9.5	1.571	2.556	0.9	21.2
2 11	8 35.78	+18 38.5	1.597	2.563	5.7	21.5
2 21	8 27.57	+19 0.8	1.651	2.571	10.0	21.8
3 2	8 21.71	+19 14.4	1.728	2.579	13.8	22.0

306904 2001 TT_{174} 1 30.1 173.°39 2.°3/27.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.37	+26 19.6	3.637	4.406	8.8	22.1
1 2	9 8.26	+27 0.5	3.547	4.410	6.8	22.0
1 12	9 1.68	+27 42.4	3.484	4.413	4.7	21.8
1 22	8 54.01	+28 22.0	3.450	4.416	2.8	21.7
2 1	8 45.78	+28 56.1	3.449	4.418	2.6	21.7
2 11	8 37.64	+29 22.1	3.480	4.420	4.4	21.8
2 21	8 30.19	+29 38.6	3.541	4.420	6.5	22.0
3 2	8 23.95	+29 45.5	3.629	4.421	8.5	22.1

314431 2005 UM_{480} 1 30.1 206.°21 13.°0/20.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 22.48	+35 58.8	1.229	2.049	19.7	20.3
1 2	9 19.53	+39 24.5	1.169	2.047	16.5	20.1
1 12	9 11.75	+42 53.7	1.132	2.045	13.8	19.9
1 22	8 59.52	+46 4.0	1.119	2.042	13.0	19.9
2 1	8 44.39	+48 33.1	1.131	2.039	14.5	19.9
2 11	8 29.08	+50 7.6	1.166	2.035	17.5	20.1
2 21	8 16.39	+50 47.2	1.220	2.031	20.7	20.3
3 2	8 8.40	+50 41.0	1.290	2.027	23.6	20.5

76850 2000 WE_{13} 1 30.1 205.°57 1.°6/29.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 19.01	+19 1.5	1.501	2.298	17.9	19.8
1 2	9 14.72	+19 34.2	1.417	2.295	14.1	19.6
1 12	9 7.13	+20 18.3	1.353	2.292	9.5	19.3
1 22	8 56.85	+21 8.2	1.314	2.289	4.4	19.0
2 1	8 45.10	+21 56.1	1.302	2.285	2.2	18.8
2 11	8 33.50	+22 35.0	1.318	2.280	7.2	19.1
2 21	8 23.61	+23 0.5	1.360	2.276	12.2	19.4
3 2	8 16.62	+23 11.5	1.424	2.270	16.5	19.6

207772 2007 TG_{49} 1 30.1 86.°03 1.°8/31.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.99	+10 50.7	2.345	3.103	13.4	20.7
1 2	9 7.75	+10 54.5	2.265	3.117	10.6	20.5
1 12	9 1.59	+11 9.2	2.209	3.131	7.4	20.3
1 22	8 54.03	+11 33.2	2.178	3.146	4.0	20.1
2 1	8 45.80	+12 3.6	2.178	3.160	1.8	20.0
2 11	8 37.78	+12 37.1	2.207	3.173	4.3	20.2
2 21	8 30.77	+13 10.1	2.266	3.187	7.6	20.4
3 2	8 25.41	+13 39.8	2.350	3.201	10.6	20.7

464273 2015 WU_2 1 30.1 6.°32 17.°5/17.4 16

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.70	+47 49.0	1.111	1.937	21.0	19.6
1 2	9 13.43	+50 50.9	1.076	1.937	18.9	19.5
1 12	9 7.83	+53 32.9	1.059	1.939	17.7	19.4
1 22	8 57.62	+55 35.6	1.062	1.943	17.6	19.4
2 1	8 44.93	+56 43.6	1.084	1.948	18.7	19.5
2 11	8 32.98	+56 52.0	1.123	1.956	20.6	19.6
2 21	8 24.51	+56 7.1	1.177	1.964	22.7	19.8
3 2	8 21.09	+54 40.2	1.244	1.975	24.6	20.0

89042 2001 TG_{112} 1 30.1 28.°67 2.°4/29.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.19	+21 43.1	1.045	1.877	21.6	18.3
1 2	9 13.25	+21 54.3	0.993	1.891	16.8	18.1
1 12	9 6.34	+22 14.0	0.959	1.906	11.2	17.8
1 22	8 56.45	+22 35.1	0.946	1.922	5.3	17.5
2 1	8 45.27	+22 49.9	0.957	1.939	3.0	17.4
2 11	8 34.88	+22 52.6	0.992	1.958	8.3	17.8
2 21	8 26.99	+22 41.6	1.050	1.978	13.6	18.2
3 2	8 22.64	+22 17.9	1.128	1.998	18.2	18.5

357133 2002 AU_{103} 1 30.1 355.°19 1.°6/29.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 8.75	+17 6.5	1.133	1.964	20.3	20.3
1 2	9 7.49	+17 52.3	1.061	1.958	16.0	20.1
1 12	9 2.68	+18 56.4	1.006	1.954	10.7	19.7
1 22	8 54.94	+20 12.2	0.974	1.951	4.9	19.4
2 1	8 45.57	+21 29.7	0.966	1.950	2.4	19.2
2 11	8 36.41	+22 38.0	0.982	1.949	8.1	19.6
2 21	8 29.19	+23 29.4	1.021	1.950	13.8	19.9
3 2	8 25.20	+24 0.6	1.080	1.953	18.6	20.2

361179 2006 PJ_{25} 1 30.1 222.°76 0.°4/30.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.65	+14 41.2	2.019	2.791	14.8	22.2
1 2	9 11.23	+15 0.8	1.919	2.783	11.7	22.0
1 12	9 4.32	+15 31.8	1.842	2.774	8.0	21.7
1 22	8 55.45	+16 11.2	1.791	2.765	3.8	21.4
2 1	8 45.46	+16 54.5	1.770	2.755	0.8	21.2
2 11	8 35.50	+17 36.8	1.778	2.744	5.2	21.5
2 21	8 26.66	+18 13.8	1.815	2.733	9.5	21.7
3 2	8 19.87	+18 42.8	1.877	2.722	13.2	21.9

53601 2000 CK_{72} 1 30.1 146.°68 1.°5/29.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.58	+19 8.8	1.550	2.345	17.5	19.9
1 2	9 14.15	+19 37.4	1.471	2.349	13.7	19.7
1 12	9 6.57	+20 16.3	1.414	2.353	9.2	19.4
1 22	8 56.54	+20 59.8	1.382	2.357	4.2	19.1
2 1	8 45.23	+21 41.0	1.378	2.361	2.0	19.0
2 11	8 34.20	+22 13.7	1.401	2.364	6.8	19.3
2 21	8 24.87	+22 34.2	1.451	2.367	11.5	19.6
3 2	8 18.33	+22 41.6	1.523	2.369	15.6	19.8

424737 2008 SH_{254} 1 30.1 352.°58 4.°1/ 1.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 10.43	+ 4 52.0	2.044	2.791	15.4	21.2
1 2	9 6.97	+ 4 41.7	1.952	2.790	12.7	21.0
1 12	9 1.34	+ 4 47.9	1.881	2.789	9.5	20.8
1 22	8 54.02	+ 5 10.4	1.835	2.788	6.2	20.6
2 1	8 45.82	+ 5 47.6	1.816	2.788	4.1	20.5
2 11	8 37.70	+ 6 35.5	1.826	2.787	5.6	20.6
2 21	8 30.62	+ 7 29.2	1.863	2.787	8.9	20.8
3 2	8 25.36	+ 8 23.5	1.926	2.787	12.2	21.0

252960 2002 PK_{118} 1 30.1 82.°94 2.°7/31.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.62	+ 9 5.6	1.795	2.553	16.8	21.5
1 2	9 12.52	+ 9 5.0	1.732	2.582	13.4	21.3
1 12	9 4.94	+ 9 19.7	1.690	2.611	9.5	21.1
1 22	8 55.59	+ 9 47.7	1.674	2.639	5.3	21.0
2 1	8 45.49	+10 25.3	1.686	2.666	2.7	20.9
2 11	8 35.83	+11 7.5	1.728	2.693	5.4	21.1
2 21	8 27.65	+11 49.5	1.797	2.720	9.2	21.4
3 2	8 21.71	+12 27.7	1.892	2.746	12.7	21.6

207809 Wuzuze 1 30.1 118.°85 3.°7/27.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.57	+27 27.4	2.478	3.266	11.9	20.2
1 2	9 9.17	+28 26.0	2.401	3.274	9.3	20.0
1 12	9 2.66	+29 26.3	2.350	3.282	6.5	19.8
1 22	8 54.58	+30 22.8	2.326	3.290	4.2	19.7
2 1	8 45.71	+31 10.1	2.333	3.297	4.1	19.7
2 11	8 37.02	+31 44.1	2.368	3.305	6.4	19.9
2 21	8 29.39	+32 3.0	2.432	3.312	9.1	20.0
3 2	8 23.57	+32 7.1	2.520	3.319	11.7	20.2

412311 2013 JR_{58} 1 30.1 202.°46 4.°4/ 1.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.25	+ 4 58.6	1.957	2.699	16.1	21.6
1 2	9 10.08	+ 4 41.8	1.862	2.697	13.3	21.4
1 12	9 3.52	+ 4 41.7	1.787	2.694	10.0	21.2
1 22	8 55.07	+ 4 58.5	1.738	2.691	6.5	20.9
2 1	8 45.59	+ 5 30.5	1.716	2.687	4.4	20.8
2 11	8 36.18	+ 6 14.2	1.723	2.683	6.0	20.9
2 21	8 27.88	+ 7 4.4	1.758	2.679	9.5	21.1
3 2	8 21.60	+ 7 55.9	1.818	2.675	13.0	21.3

170785 2004 CH_{112} 1 30.1 117.°28 1.°7/28.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.87	+19 49.9	2.421	3.202	12.3	20.3
1 2	9 7.80	+20 46.0	2.339	3.211	9.5	20.1
1 12	9 1.74	+21 49.2	2.282	3.219	6.3	19.9
1 22	8 54.16	+22 55.0	2.253	3.227	3.0	19.7
2 1	8 45.82	+23 58.1	2.254	3.234	2.1	19.7
2 11	8 37.61	+24 53.5	2.286	3.242	5.2	19.9
2 21	8 30.37	+25 37.9	2.347	3.249	8.4	20.1
3 2	8 24.83	+26 9.8	2.433	3.256	11.2	20.3

425492 2010 GN_{27} 1 30.1 300.°64 7.°9/ 5.0 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 8.68	− 6 46.5	2.288	2.968	15.7	20.7
1 2	9 5.50	− 7 24.3	2.183	2.956	13.7	20.5
1 12	9 0.33	− 7 41.9	2.096	2.943	11.5	20.4
1 22	8 53.59	− 7 36.6	2.033	2.931	9.4	20.2
2 1	8 45.95	− 7 7.3	1.994	2.919	8.1	20.1
2 11	8 38.27	− 6 15.7	1.982	2.907	8.2	20.1
2 21	8 31.43	− 5 6.4	1.997	2.895	9.9	20.2
3 2	8 26.19	− 3 45.6	2.037	2.883	12.2	20.3

167122 2003 SL_{123} 1 30.1 193.°29 1.°5/29.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.49	+19 31.5	2.046	2.825	14.3	20.9
1 2	9 12.63	+20 7.1	1.954	2.823	11.2	20.7
1 12	9 5.24	+20 50.8	1.885	2.821	7.5	20.5
1 22	8 55.87	+21 38.0	1.844	2.818	3.5	20.2
2 1	8 45.44	+22 23.0	1.832	2.814	1.9	20.1
2 11	8 35.10	+23 0.6	1.850	2.810	5.8	20.3
2 21	8 25.99	+23 27.5	1.897	2.805	9.7	20.6
3 2	8 19.02	+23 42.6	1.969	2.800	13.2	20.8

371762 2007 GU_{26} 1 30.1 67.°72 2.°2/28.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.73	+20 48.5	1.890	2.684	14.8	21.4
1 2	9 9.82	+21 35.5	1.813	2.692	11.5	21.1
1 12	9 3.37	+22 30.3	1.759	2.699	7.7	20.9
1 22	8 55.00	+23 27.3	1.732	2.706	3.7	20.7
2 1	8 45.66	+24 20.2	1.733	2.713	2.6	20.6
2 11	8 36.54	+25 3.1	1.763	2.721	6.2	20.9
2 21	8 28.75	+25 32.9	1.820	2.728	10.1	21.1
3 2	8 23.16	+25 48.6	1.902	2.736	13.5	21.4

118761 2000 QB_{220} 1 30.1 78.°61 0.°6/30.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.74	+14 48.9	1.897	2.672	15.5	20.4
1 2	9 11.80	+14 59.3	1.832	2.697	12.1	20.2
1 12	9 4.46	+15 20.1	1.789	2.721	8.2	20.0
1 22	8 55.40	+15 47.8	1.773	2.746	3.8	19.8
2 1	8 45.59	+16 18.4	1.785	2.770	0.9	19.6
2 11	8 36.20	+16 47.5	1.827	2.794	5.0	20.0
2 21	8 28.21	+17 11.8	1.897	2.817	9.0	20.2
3 2	8 22.38	+17 29.3	1.992	2.841	12.4	20.5

414017 2007 HG_{64} 1 30.2 342.°44 8.°0/25.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.32	+32 10.4	1.429	2.254	17.2	19.9
1 2	9 10.12	+33 33.3	1.352	2.242	13.9	19.7
1 12	9 4.38	+34 57.5	1.297	2.230	10.5	19.5
1 22	8 55.74	+36 11.9	1.266	2.220	8.2	19.3
2 1	8 45.48	+37 5.2	1.259	2.211	8.7	19.3
2 11	8 35.39	+37 29.6	1.277	2.203	11.6	19.5
2 21	8 27.21	+37 23.5	1.317	2.196	15.2	19.6
3 2	8 22.21	+36 50.3	1.376	2.191	18.7	19.9

453300 2008 UF_{179} 1 30.2 129.°19 4.°7/27.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 21.38	+26 58.0	1.708	2.503	16.1	21.2
1 2	9 16.14	+27 55.0	1.639	2.515	12.6	21.0
1 12	9 7.79	+28 54.9	1.592	2.526	8.8	20.8
1 22	8 57.07	+29 49.6	1.571	2.537	5.4	20.6
2 1	8 45.21	+30 30.9	1.578	2.547	5.1	20.6
2 11	8 33.76	+30 53.4	1.614	2.557	8.2	20.9
2 21	8 24.08	+30 55.8	1.676	2.566	11.9	21.1
3 2	8 17.18	+30 40.3	1.761	2.575	15.3	21.3

154028 2002 CV_{42} 1 30.2 341.°28 5.°6/ 2.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 8.03	+ 1 26.8	1.657	2.410	18.2	19.2
1 2	9 5.71	+ 1 23.5	1.564	2.402	15.3	19.0
1 12	9 0.85	+ 1 44.2	1.491	2.395	11.8	18.8
1 22	8 53.95	+ 2 30.0	1.440	2.389	8.1	18.6
2 1	8 45.90	+ 3 38.7	1.415	2.383	5.7	18.4
2 11	8 37.88	+ 5 4.6	1.416	2.378	6.9	18.5
2 21	8 31.05	+ 6 39.5	1.444	2.373	10.5	18.6
3 2	8 26.39	+ 8 14.6	1.496	2.370	14.3	18.9

359121 2009 BP_{51} 1 30.2 307.°64 0.°7/29.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.19	+16 44.7	1.461	2.265	17.9	21.1
1 2	9 10.34	+17 10.8	1.369	2.252	14.2	20.9
1 12	9 4.33	+17 51.0	1.298	2.239	9.6	20.5
1 22	8 55.69	+18 41.0	1.251	2.226	4.4	20.2
2 1	8 45.51	+19 34.2	1.230	2.214	1.4	20.0
2 11	8 35.34	+20 22.8	1.235	2.202	6.9	20.3
2 21	8 26.69	+21 1.2	1.266	2.191	12.1	20.5
3 2	8 20.80	+21 26.3	1.319	2.179	16.7	20.8

448300 2009 BN_{60} 1 30.2 71.°69 3.°8/28.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.43	+22 45.8	1.399	2.208	18.3	21.0
1 2	9 14.24	+23 52.2	1.342	2.227	14.2	20.8
1 12	9 6.69	+25 6.8	1.305	2.246	9.5	20.6
1 22	8 56.60	+26 20.4	1.293	2.265	5.1	20.4
2 1	8 45.35	+27 23.1	1.308	2.285	4.4	20.4
2 11	8 34.65	+28 7.7	1.350	2.304	8.3	20.6
2 21	8 25.95	+28 31.4	1.417	2.323	12.6	20.9
3 2	8 20.27	+28 35.3	1.506	2.341	16.3	21.2

375444 2008 TN_{86} 1 30.2 42.°43 0.°5/30.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.34	+15 3.6	1.704	2.493	16.4	21.4
1 2	9 9.49	+15 15.3	1.641	2.513	12.8	21.2
1 12	9 3.08	+15 38.5	1.598	2.534	8.6	21.0
1 22	8 54.83	+16 9.6	1.581	2.555	4.0	20.8
2 1	8 45.76	+16 43.8	1.592	2.577	0.9	20.6
2 11	8 37.09	+17 16.2	1.631	2.599	5.4	21.0
2 21	8 29.90	+17 43.1	1.697	2.621	9.6	21.3
3 2	8 24.96	+18 2.2	1.787	2.644	13.2	21.5

405951 2006 SD_{1} 1 30.2 122.°83 6.°7/26.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 24.35	+34 32.2	1.815	2.605	15.5	21.2
1 2	9 18.46	+35 15.8	1.745	2.611	12.5	21.0
1 12	9 9.32	+35 54.7	1.696	2.617	9.4	20.9
1 22	8 57.76	+36 20.3	1.673	2.623	7.0	20.7
2 1	8 45.10	+36 25.5	1.678	2.629	7.1	20.7
2 11	8 32.96	+36 6.9	1.711	2.634	9.4	20.9
2 21	8 22.77	+35 26.1	1.769	2.639	12.5	21.1
3 2	8 15.50	+34 27.4	1.850	2.644	15.4	21.3

276164 2002 NF_{60} 1 30.2 179.°22 1.°3/29.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.18	+18 27.5	2.383	3.162	12.6	21.2
1 2	9 8.14	+19 17.9	2.292	3.162	9.8	21.0
1 12	9 2.04	+20 16.8	2.227	3.163	6.5	20.8
1 22	8 54.36	+21 19.9	2.189	3.163	3.0	20.6
2 1	8 45.85	+22 22.0	2.181	3.163	1.7	20.5
2 11	8 37.41	+23 17.9	2.203	3.163	5.0	20.7
2 21	8 29.92	+24 4.2	2.255	3.162	8.5	20.9
3 2	8 24.14	+24 38.8	2.332	3.161	11.5	21.1

413995 2007 EW_{157} 1 30.2 56.°07 0.°2/30.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.53	+15 26.7	1.677	2.468	16.5	21.3
1 2	9 9.81	+15 58.5	1.606	2.481	12.9	21.1
1 12	9 3.43	+16 43.0	1.558	2.495	8.7	20.8
1 22	8 55.05	+17 35.7	1.534	2.509	4.0	20.6
2 1	8 45.71	+18 30.4	1.538	2.523	1.0	20.4
2 11	8 36.67	+19 20.9	1.571	2.538	5.7	20.8
2 21	8 29.11	+20 2.7	1.631	2.552	10.1	21.0
3 2	8 23.88	+20 33.0	1.714	2.567	13.8	21.3

373927 2003 UX_{246} 1 30.2 105.°66 0.°5/29.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.93	+17 31.5	2.243	3.019	13.3	21.1
1 2	9 9.45	+17 52.9	2.163	3.030	10.4	20.9
1 12	9 2.86	+18 21.8	2.107	3.041	6.9	20.7
1 22	8 54.70	+18 54.9	2.078	3.052	3.1	20.5
2 1	8 45.79	+19 28.1	2.079	3.063	1.0	20.4
2 11	8 37.10	+19 57.5	2.109	3.073	4.8	20.7
2 21	8 29.51	+20 20.2	2.169	3.083	8.3	20.9
3 2	8 23.76	+20 34.9	2.254	3.093	11.4	21.1

310849 2003 AS_{90} 1 30.2 352.°77 6.°2/27.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 20.19	+31 50.4	1.519	2.328	17.1	19.6
1 2	9 15.80	+32 18.9	1.444	2.324	13.7	19.4
1 12	9 7.87	+32 44.5	1.389	2.321	10.0	19.2
1 22	8 57.21	+32 58.7	1.358	2.319	6.8	19.0
2 1	8 45.22	+32 54.0	1.353	2.317	6.6	19.0
2 11	8 33.69	+32 26.3	1.375	2.316	9.5	19.1
2 21	8 24.22	+31 37.2	1.422	2.316	13.4	19.4
3 2	8 17.91	+30 31.0	1.490	2.316	16.9	19.6

464937 2005 UE_{287} 1 30.2 148.°84 2.°6/31.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.72	+ 8 31.7	2.012	2.770	15.3	21.7
1 2	9 8.80	+ 8 38.4	1.923	2.772	12.3	21.5
1 12	9 2.60	+ 9 0.1	1.855	2.775	8.8	21.3
1 22	8 54.66	+ 9 35.6	1.813	2.777	5.0	21.0
2 1	8 45.79	+10 21.5	1.800	2.780	2.6	20.9
2 11	8 37.05	+11 13.1	1.815	2.782	5.1	21.0
2 21	8 29.41	+12 5.5	1.859	2.784	8.9	21.3
3 2	8 23.71	+12 54.4	1.929	2.785	12.3	21.5

334577 2002 TE_{113} 1 30.2 110.°83 3.°0/ 1.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.17	+ 7 52.7	2.394	3.137	13.5	20.5
1 2	9 8.66	+ 7 34.5	2.308	3.147	10.9	20.3
1 12	9 2.24	+ 7 28.0	2.245	3.156	7.9	20.1
1 22	8 54.40	+ 7 32.6	2.208	3.166	4.9	19.9
2 1	8 45.87	+ 7 46.7	2.200	3.176	3.0	19.8
2 11	8 37.52	+ 8 7.7	2.223	3.185	4.7	20.0
2 21	8 30.13	+ 8 32.4	2.274	3.194	7.7	20.2
3 2	8 24.38	+ 8 57.9	2.352	3.203	10.6	20.4

157144 2004 PR_2 1 30.2 105.°88 1.°5/31.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.85	+12 11.8	2.151	2.913	14.3	20.7
1 2	9 10.17	+12 16.3	2.073	2.928	11.3	20.5
1 12	9 3.33	+12 31.7	2.018	2.943	7.8	20.3
1 22	8 54.92	+12 56.0	1.989	2.958	4.0	20.1
2 1	8 45.76	+13 25.8	1.990	2.973	1.5	20.0
2 11	8 36.85	+13 57.4	2.021	2.987	4.6	20.2
2 21	8 29.09	+14 27.3	2.080	3.001	8.3	20.5
3 2	8 23.21	+14 52.9	2.166	3.015	11.5	20.7

51805 2001 NY_{12} 1 30.2 233.°50 2.°2/31.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.24	+10 46.2	2.090	2.848	14.8	19.5
1 2	9 10.81	+10 40.0	1.987	2.838	11.9	19.3
1 12	9 4.02	+10 45.8	1.905	2.827	8.4	19.0
1 22	8 55.36	+11 2.4	1.850	2.816	4.7	18.8
2 1	8 45.63	+11 27.3	1.823	2.804	2.2	18.6
2 11	8 35.91	+11 57.1	1.827	2.792	5.1	18.8
2 21	8 27.24	+12 27.7	1.858	2.780	9.0	19.0
3 2	8 20.50	+12 55.9	1.916	2.767	12.7	19.2

446442 2014 JG_{45} 1 30.2 199.°08 1.°6/29.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.41	+19 13.5	1.655	2.446	16.7	21.6
1 2	9 13.97	+19 47.3	1.568	2.444	13.1	21.4
1 12	9 6.49	+20 31.3	1.503	2.442	8.8	21.1
1 22	8 56.58	+21 20.2	1.464	2.439	4.1	20.8
2 1	8 45.35	+22 7.1	1.453	2.435	2.1	20.7
2 11	8 34.27	+22 45.4	1.470	2.432	6.7	21.0
2 21	8 24.72	+23 11.2	1.514	2.427	11.3	21.2
3 2	8 17.81	+23 23.2	1.581	2.423	15.4	21.5

276330 2002 TH_{253} 1 30.2 89.°55 8.°0/ 4.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.73	− 5 1.5	1.834	2.536	18.4	21.3
1 2	9 8.92	− 5 31.7	1.757	2.550	15.8	21.1
1 12	9 2.72	− 5 37.3	1.698	2.563	12.9	21.0
1 22	8 54.72	− 5 15.9	1.661	2.576	10.0	20.8
2 1	8 45.80	− 4 28.0	1.649	2.589	8.2	20.7
2 11	8 37.09	− 3 17.6	1.664	2.602	8.4	20.8
2 21	8 29.62	− 1 52.0	1.705	2.614	10.6	20.9
3 2	8 24.21	− 0 19.3	1.771	2.627	13.3	21.1

192911 1999 XB_{237} 1 30.2 23.°52 0.°1/30.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.85	+16 48.4	1.737	2.530	16.0	19.8
1 2	9 9.27	+16 59.2	1.659	2.535	12.5	19.6
1 12	9 3.08	+17 19.9	1.603	2.541	8.4	19.3
1 22	8 54.91	+17 47.1	1.572	2.547	3.9	19.1
2 1	8 45.76	+18 16.0	1.569	2.554	0.9	18.9
2 11	8 36.87	+18 42.0	1.594	2.561	5.6	19.2
2 21	8 29.38	+19 1.6	1.646	2.569	9.9	19.5
3 2	8 24.16	+19 12.9	1.722	2.577	13.6	19.7

7975 1974 FD 1 30.2 218.°92 3.°5/27.8 18 R

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.10	+27 37.3	2.388	3.174	12.3	17.7
1 2	9 11.26	+28 9.2	2.299	3.170	9.7	17.5
1 12	9 4.16	+28 41.9	2.234	3.167	6.7	17.4
1 22	8 55.35	+29 10.6	2.197	3.163	4.1	17.2
2 1	8 45.67	+29 30.3	2.190	3.159	3.8	17.2
2 11	8 36.16	+29 37.6	2.212	3.155	6.3	17.3
2 21	8 27.80	+29 31.5	2.262	3.151	9.3	17.5
3 2	8 21.35	+29 12.7	2.337	3.147	12.1	17.7

432465 2010 CT_{152} 1 30.2 203.°23 1.°4/29.3 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.44	+21 37.7	2.454	3.231	12.3	21.5
1 2	9 10.57	+21 50.6	2.360	3.229	9.6	21.3
1 12	9 3.61	+22 7.3	2.291	3.226	6.4	21.1
1 22	8 55.07	+22 24.5	2.250	3.223	3.0	20.9
2 1	8 45.74	+22 38.5	2.238	3.220	1.7	20.8
2 11	8 36.55	+22 46.4	2.257	3.217	4.9	21.0
2 21	8 28.39	+22 46.4	2.306	3.213	8.3	21.2
3 2	8 22.00	+22 38.2	2.380	3.209	11.3	21.4

246700 2009 AM_{31} 1 30.2 58.°42 0.°5/30.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.19	+14 18.3	2.263	3.035	13.3	21.0
1 2	9 7.39	+14 37.7	2.174	3.038	10.5	20.8
1 12	9 1.53	+15 7.2	2.109	3.041	7.1	20.6
1 22	8 54.14	+15 44.0	2.071	3.043	3.4	20.3
2 1	8 45.95	+16 24.3	2.062	3.046	0.8	20.1
2 11	8 37.89	+17 4.1	2.082	3.049	4.5	20.4
2 21	8 30.83	+17 39.8	2.132	3.052	8.1	20.6
3 2	8 25.48	+18 8.7	2.207	3.055	11.3	20.8

241852 2001 TL_{94} 1 30.2 32.°25 0.°6/29.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.07	+17 51.6	1.229	2.043	20.1	20.0
1 2	9 12.77	+17 58.8	1.163	2.051	15.7	19.7
1 12	9 5.93	+18 18.0	1.117	2.059	10.6	19.5
1 22	8 56.36	+18 44.5	1.093	2.068	4.8	19.2
2 1	8 45.46	+19 11.7	1.094	2.078	1.4	19.0
2 11	8 35.04	+19 33.2	1.121	2.089	7.2	19.4
2 21	8 26.68	+19 45.3	1.172	2.100	12.5	19.7
3 2	8 21.49	+19 46.4	1.244	2.112	17.0	20.0

338909 2004 DM_{35} 1 30.2 322.°78 5.°9/ 4.2 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 8.25	− 2 57.9	2.214	2.921	15.5	20.8
1 2	9 5.20	− 2 55.5	2.114	2.915	13.2	20.6
1 12	9 0.15	− 2 31.5	2.034	2.910	10.5	20.4
1 22	8 53.55	− 1 44.9	1.977	2.905	7.9	20.3
2 1	8 46.09	− 0 37.0	1.947	2.900	6.1	20.1
2 11	8 38.66	+ 0 47.9	1.946	2.895	6.5	20.2
2 21	8 32.11	+ 2 23.5	1.973	2.890	8.8	20.3
3 2	8 27.19	+ 4 2.9	2.026	2.886	11.7	20.4

3999 Aristarchus 1 30.2 344.°61 0.°5/30.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.45	+16 1.1	1.389	2.195	18.6	16.0
1 2	9 10.54	+15 59.0	1.306	2.189	14.7	15.7
1 12	9 4.41	+16 9.3	1.243	2.183	10.1	15.4
1 22	8 55.71	+16 28.9	1.204	2.178	4.8	15.1
2 1	8 45.60	+16 53.0	1.189	2.174	1.0	14.8
2 11	8 35.68	+17 16.0	1.202	2.171	6.6	15.2
2 21	8 27.42	+17 33.5	1.239	2.168	11.8	15.5
3 2	8 21.99	+17 42.7	1.298	2.166	16.4	15.7

369104 2008 HN_{35} 1 30.2 174.°69 1.°4/29.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.55	+19 11.4	2.439	3.213	12.4	22.1
1 2	9 9.92	+19 58.4	2.349	3.216	9.7	21.9
1 12	9 3.22	+20 53.0	2.283	3.218	6.5	21.7
1 22	8 54.93	+21 50.6	2.246	3.220	3.0	21.5
2 1	8 45.80	+22 46.5	2.239	3.221	1.8	21.4
2 11	8 36.76	+23 35.7	2.263	3.221	5.0	21.6
2 21	8 28.69	+24 15.2	2.317	3.221	8.4	21.8
3 2	8 22.36	+24 43.2	2.396	3.221	11.4	22.0

34121 2000 PJ_{29} 1 30.2 91.°81 2.°6/28.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.05	+20 55.4	1.898	2.692	14.8	18.9
1 2	9 10.12	+22 0.1	1.822	2.700	11.4	18.7
1 12	9 3.63	+23 13.3	1.770	2.709	7.7	18.5
1 22	8 55.20	+24 28.8	1.744	2.717	3.9	18.2
2 1	8 45.75	+25 39.2	1.748	2.726	3.1	18.2
2 11	8 36.50	+26 37.8	1.780	2.734	6.5	18.4
2 21	8 28.57	+27 20.9	1.840	2.742	10.3	18.7
3 2	8 22.85	+27 47.5	1.923	2.750	13.6	18.9

77207 2001 FE_{21} 1 30.2 229.°11 2.°5/28.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.26	+22 59.4	2.563	3.344	11.7	20.0
1 2	9 8.97	+23 52.3	2.463	3.335	9.1	19.8
1 12	9 2.64	+24 50.7	2.389	3.324	6.2	19.6
1 22	8 54.70	+25 49.8	2.343	3.314	3.3	19.4
2 1	8 45.86	+26 44.5	2.327	3.303	2.8	19.3
2 11	8 37.02	+27 30.0	2.342	3.292	5.6	19.5
2 21	8 29.06	+28 3.5	2.386	3.280	8.7	19.7
3 2	8 22.77	+28 24.0	2.455	3.268	11.5	19.8

346180 2007 WU_{24} 1 30.2 16.°11 1.°8/28.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.70	+20 46.3	2.321	3.107	12.6	21.2
1 2	9 7.84	+21 28.5	2.233	3.107	9.8	21.0
1 12	9 1.89	+22 17.3	2.170	3.107	6.6	20.8
1 22	8 54.35	+23 8.2	2.134	3.108	3.2	20.6
2 1	8 45.96	+23 56.2	2.127	3.108	2.2	20.6
2 11	8 37.70	+24 36.8	2.151	3.108	5.3	20.8
2 21	8 30.44	+25 6.9	2.202	3.108	8.7	21.0
3 2	8 24.94	+25 25.4	2.279	3.108	11.7	21.2

272312 2005 SE_{60} 1 30.2 154.°37 3.°1/ 1.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.85	+ 7 13.1	1.900	2.646	16.4	21.6
1 2	9 12.89	+ 7 19.1	1.814	2.656	13.3	21.4
1 12	9 5.41	+ 7 42.0	1.750	2.665	9.6	21.2
1 22	8 56.01	+ 8 20.4	1.712	2.673	5.6	21.0
2 1	8 45.59	+ 9 10.8	1.702	2.680	3.1	20.8
2 11	8 35.36	+10 8.1	1.722	2.686	5.5	21.0
2 21	8 26.40	+11 6.5	1.770	2.692	9.4	21.2
3 2	8 19.61	+12 1.3	1.844	2.696	13.0	21.4

519552 2012 QP_{53} 1 30.2 92.°62 2.°2/31.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 10.13	+ 8 11.0	2.339	3.091	13.5	21.8
1 2	9 6.47	+ 8 29.7	2.249	3.096	10.9	21.6
1 12	9 0.88	+ 9 2.3	2.182	3.101	7.8	21.4
1 22	8 53.86	+ 9 47.1	2.142	3.106	4.4	21.2
2 1	8 46.08	+10 40.9	2.131	3.111	2.2	21.1
2 11	8 38.41	+11 39.2	2.149	3.116	4.4	21.2
2 21	8 31.67	+12 37.6	2.197	3.121	7.7	21.4
3 2	8 26.52	+13 32.0	2.271	3.126	10.8	21.6

110967 2001 UZ_{171} 1 30.2 341.°13 2.°6/28.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.05	+21 17.2	1.585	2.393	16.6	19.8
1 2	9 9.95	+21 57.4	1.502	2.387	13.0	19.5
1 12	9 3.88	+22 46.7	1.440	2.382	8.7	19.3
1 22	8 55.44	+23 39.0	1.403	2.378	4.3	19.0
2 1	8 45.71	+24 26.9	1.393	2.374	3.1	18.9
2 11	8 36.13	+25 3.8	1.410	2.370	7.2	19.1
2 21	8 28.08	+25 25.9	1.453	2.367	11.7	19.4
3 2	8 22.62	+25 32.2	1.518	2.364	15.6	19.6

466048 2011 LV_{21} 1 30.2 252.°87 2.°0/28.7 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.68	+21 9.2	2.260	3.047	12.9	21.7
1 2	9 8.74	+21 53.0	2.166	3.040	10.1	21.5
1 12	9 2.59	+22 43.7	2.096	3.033	6.8	21.3
1 22	8 54.71	+23 36.5	2.053	3.026	3.3	21.1
2 1	8 45.89	+24 26.3	2.039	3.019	2.4	21.0
2 11	8 37.12	+25 8.1	2.055	3.012	5.6	21.2
2 21	8 29.37	+25 38.6	2.100	3.004	9.1	21.4
3 2	8 23.47	+25 56.7	2.169	2.997	12.3	21.6

153076 2000 QO_{228} 1 30.2 40.°22 5.°9/ 3.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 10.07	+ 0 9.8	1.577	2.324	19.2	19.2
1 2	9 7.19	+ 0 12.6	1.508	2.341	16.0	19.0
1 12	9 1.73	+ 0 41.5	1.457	2.357	12.3	18.8
1 22	8 54.34	+ 1 36.4	1.429	2.375	8.5	18.6
2 1	8 46.00	+ 2 53.9	1.427	2.393	6.0	18.5
2 11	8 37.95	+ 4 26.8	1.451	2.412	7.0	18.6
2 21	8 31.30	+ 6 5.9	1.502	2.431	10.2	18.9
3 2	8 26.91	+ 7 42.8	1.578	2.450	13.7	19.1

263564 2008 FS_{69} 1 30.2 307.°34 0.°6/30.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.96	+14 40.8	1.709	2.497	16.4	20.4
1 2	9 9.62	+14 51.7	1.615	2.487	13.0	20.2
1 12	9 3.54	+15 15.2	1.542	2.477	8.9	19.9
1 22	8 55.27	+15 48.6	1.494	2.467	4.3	19.6
2 1	8 45.76	+16 27.2	1.473	2.458	1.0	19.3
2 11	8 36.30	+17 5.6	1.480	2.448	5.8	19.7
2 21	8 28.13	+17 39.1	1.514	2.439	10.4	19.9
3 2	8 22.29	+18 4.4	1.572	2.430	14.5	20.1

459812 2013 SP_{23} 1 30.2 164.°85 2.°7/28.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.85	+24 1.1	2.179	2.966	13.3	21.7
1 2	9 11.22	+24 34.3	2.095	2.968	10.4	21.5
1 12	9 4.23	+25 11.1	2.034	2.970	7.0	21.3
1 22	8 55.45	+25 46.8	2.000	2.971	3.7	21.1
2 1	8 45.77	+26 16.1	1.996	2.972	3.0	21.1
2 11	8 36.28	+26 35.1	2.021	2.974	6.0	21.3
2 21	8 27.99	+26 41.7	2.074	2.974	9.4	21.5
3 2	8 21.73	+26 36.2	2.152	2.975	12.5	21.7

213430 2001 XP_{201} 1 30.2 328.°08 0.°6/29.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.45	+16 2.7	1.369	2.177	18.7	19.9
1 2	9 9.92	+16 33.5	1.284	2.169	14.8	19.6
1 12	9 4.13	+17 20.3	1.219	2.161	10.0	19.4
1 22	8 55.67	+18 18.5	1.178	2.154	4.6	19.0
2 1	8 45.68	+19 20.5	1.162	2.147	1.4	18.8
2 11	8 35.77	+20 18.0	1.173	2.140	7.0	19.1
2 21	8 27.50	+21 4.5	1.208	2.134	12.4	19.4
3 2	8 22.09	+21 36.3	1.265	2.129	17.0	19.7

90156 2002 YS_{29} 1 30.2 287.°63 1.°7/28.8 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 10.67	+19 45.1	2.359	3.144	12.5	19.6
1 2	9 7.17	+20 36.9	2.254	3.128	9.8	19.4
1 12	9 1.56	+21 37.3	2.174	3.112	6.5	19.1
1 22	8 54.28	+22 42.0	2.121	3.095	3.1	18.9
2 1	8 46.01	+23 45.5	2.098	3.079	2.1	18.8
2 11	8 37.70	+24 42.4	2.106	3.063	5.4	19.0
2 21	8 30.27	+25 28.9	2.141	3.047	8.9	19.2
3 2	8 24.53	+26 2.7	2.202	3.030	12.1	19.3

151192 2001 XS_{221} 1 30.2 38.°36 0.°8/29.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.63	+18 14.6	1.782	2.574	15.7	20.7
1 2	9 10.69	+18 35.2	1.700	2.576	12.3	20.4
1 12	9 4.09	+19 5.0	1.641	2.579	8.2	20.2
1 22	8 55.45	+19 39.7	1.606	2.581	3.8	19.9
2 1	8 45.77	+20 14.2	1.600	2.584	1.4	19.8
2 11	8 36.29	+20 43.4	1.623	2.587	5.8	20.1
2 21	8 28.20	+21 3.8	1.672	2.590	10.1	20.3
3 2	8 22.42	+21 14.0	1.745	2.593	13.8	20.6

381225 2007 RO_{291} 1 30.2 63.°46 0.°6/29.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.35	+17 44.5	2.109	2.891	13.9	21.5
1 2	9 9.10	+18 7.8	2.039	2.909	10.8	21.3
1 12	9 2.68	+18 38.9	1.991	2.927	7.2	21.2
1 22	8 54.68	+19 14.1	1.970	2.945	3.2	20.9
2 1	8 45.96	+19 48.9	1.979	2.963	1.1	20.8
2 11	8 37.52	+20 19.3	2.017	2.981	4.9	21.1
2 21	8 30.28	+20 42.4	2.083	2.999	8.5	21.4
3 2	8 24.95	+20 56.8	2.175	3.017	11.7	21.6

370694 2004 HA_{56} 1 30.2 222.°53 1.°9/28.6 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.89	+20 0.3	2.415	3.191	12.5	21.8
1 2	9 10.40	+20 59.1	2.311	3.180	9.8	21.6
1 12	9 3.71	+22 6.4	2.233	3.168	6.6	21.3
1 22	8 55.27	+23 17.4	2.183	3.156	3.2	21.1
2 1	8 45.80	+24 26.3	2.163	3.143	2.3	21.0
2 11	8 36.28	+25 27.5	2.175	3.129	5.5	21.2
2 21	8 27.67	+26 17.0	2.216	3.115	9.0	21.4
3 2	8 20.82	+26 53.0	2.283	3.100	12.1	21.6

489109 2006 BL_{234} 1 30.2 296.°04 1.°5/29.4 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.83	+18 53.1	1.474	2.277	17.8	22.3
1 2	9 12.36	+19 21.6	1.389	2.271	14.0	22.0
1 12	9 5.66	+20 1.7	1.324	2.265	9.5	21.7
1 22	8 56.34	+20 47.9	1.284	2.259	4.4	21.4
2 1	8 45.56	+21 33.1	1.270	2.254	2.1	21.2
2 11	8 34.91	+22 10.4	1.284	2.248	7.1	21.5
2 21	8 25.91	+22 35.1	1.323	2.243	12.1	21.8
3 2	8 19.74	+22 45.7	1.384	2.237	16.5	22.0

239707 2009 AP_{4} 1 30.2 4.°93 0.°8/29.7 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.68	+18 37.8	2.209	2.991	13.3	21.1
1 2	9 8.66	+18 56.9	2.120	2.991	10.4	20.9
1 12	9 2.47	+19 23.0	2.055	2.991	7.0	20.7
1 22	8 54.64	+19 52.8	2.017	2.992	3.2	20.4
2 1	8 45.97	+20 22.2	2.008	2.992	1.2	20.3
2 11	8 37.43	+20 47.2	2.029	2.992	5.0	20.5
2 21	8 29.98	+21 5.1	2.078	2.993	8.6	20.8
3 2	8 24.36	+21 14.6	2.152	2.993	11.8	21.0

100071 1992 ET_{30} 1 30.2 243.°76 2.°3/31.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.65	+ 9 50.8	1.961	2.723	15.5	20.2
1 2	9 9.77	+ 9 57.2	1.860	2.714	12.5	20.0
1 12	9 3.45	+10 18.3	1.781	2.705	8.9	19.7
1 22	8 55.20	+10 52.6	1.728	2.695	4.9	19.5
2 1	8 45.83	+11 36.9	1.703	2.684	2.3	19.3
2 11	8 36.46	+12 26.5	1.707	2.674	5.3	19.4
2 21	8 28.18	+13 16.3	1.739	2.663	9.4	19.6
3 2	8 21.90	+14 1.9	1.796	2.652	13.1	19.9

462830 2010 TB_{21} 1 30.2 72.°52 2.°3/28.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.28	+21 46.5	1.673	2.468	16.4	21.8
1 2	9 13.52	+22 18.7	1.610	2.488	12.7	21.6
1 12	9 5.92	+22 57.1	1.569	2.508	8.5	21.4
1 22	8 56.24	+23 35.9	1.554	2.528	4.1	21.1
2 1	8 45.64	+24 8.5	1.567	2.548	2.7	21.1
2 11	8 35.51	+24 30.3	1.608	2.567	6.6	21.4
2 21	8 27.08	+24 39.1	1.677	2.587	10.6	21.7
3 2	8 21.19	+24 35.1	1.768	2.606	14.2	21.9

279879 2001 PZ_{34} 1 30.2 70.°30 5.°3/ 2.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.64	+ 1 26.9	2.288	3.004	14.8	20.2
1 2	9 9.02	+ 0 49.2	2.217	3.028	12.3	20.1
1 12	9 2.47	+ 0 27.0	2.167	3.053	9.5	19.9
1 22	8 54.55	+ 0 21.3	2.142	3.077	6.9	19.8
2 1	8 46.02	+ 0 31.4	2.145	3.101	5.3	19.8
2 11	8 37.74	+ 0 54.7	2.178	3.125	6.1	19.8
2 21	8 30.53	+ 1 27.4	2.238	3.149	8.3	20.0
3 2	8 25.01	+ 2 5.4	2.324	3.172	10.8	20.2

71366 2000 AU_{135} 1 30.2 153.°03 0.°3/30.4 18 R

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.14	+16 51.3	2.313	3.082	13.2	19.5
1 2	9 11.15	+16 44.7	2.223	3.085	10.4	19.3
1 12	9 4.03	+16 44.5	2.157	3.088	7.0	19.1
1 22	8 55.33	+16 48.3	2.118	3.091	3.3	18.9
2 1	8 45.84	+16 53.6	2.109	3.094	0.7	18.7
2 11	8 36.53	+16 57.6	2.131	3.097	4.5	19.0
2 21	8 28.32	+16 58.5	2.182	3.099	8.1	19.2
3 2	8 21.92	+16 55.0	2.259	3.101	11.3	19.4

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
39161	2000 WH_{117}		1 30.2	174.°63	1.°5/29.3	18
	h m	° ′			°	m
12 23	9 19.27	+20 34.0	2.113	2.889	14.1	19.6
1 2	9 13.91	+21 0.8	2.025	2.892	11.0	19.4
1 12	9 6.07	+21 33.9	1.960	2.895	7.4	19.2
1 22	8 56.33	+22 8.7	1.923	2.897	3.5	19.0
2 1	8 45.61	+22 40.1	1.916	2.898	1.9	18.9
2 11	8 35.07	+23 3.9	1.939	2.898	5.6	19.1
2 21	8 25.79	+23 17.6	1.991	2.898	9.4	19.3
3 2	8 18.63	+23 20.6	2.068	2.897	12.8	19.5
291908	2006 QM_{11}		1 30.2	138.°00	0.°2/30.1	18
12 23	9 10.66	+14 56.5	2.405	3.178	12.7	20.7
1 2	9 6.92	+15 40.1	2.315	3.180	9.9	20.5
1 12	9 1.24	+16 34.2	2.249	3.182	6.7	20.3
1 22	8 54.07	+17 35.2	2.210	3.184	3.0	20.0
2 1	8 46.12	+18 38.5	2.202	3.186	0.8	19.9
2 11	8 38.24	+19 39.2	2.223	3.188	4.5	20.1
2 21	8 31.28	+20 33.2	2.274	3.190	8.0	20.4
3 2	8 25.93	+21 17.7	2.352	3.192	11.0	20.6
455760	2005 MF_{31}		1 30.2	126.°87	1.°0/29.5	18
12 23	9 14.94	+16 23.8	2.001	2.780	14.6	21.1
1 2	9 10.62	+17 22.6	1.922	2.791	11.4	21.0
1 12	9 3.89	+18 33.1	1.867	2.802	7.6	20.7
1 22	8 55.34	+19 50.1	1.838	2.813	3.4	20.5
2 1	8 45.84	+21 6.9	1.840	2.823	1.5	20.4
2 11	8 36.51	+22 16.9	1.871	2.833	5.5	20.7
2 21	8 28.40	+23 15.4	1.931	2.842	9.4	20.9
3 2	8 22.35	+24 0.0	2.016	2.851	12.8	21.2
486009	2012 QP_{25}		1 30.2	151.°91	1.°5/29.5	18
12 23	9 21.97	+20 1.5	1.499	2.292	18.1	21.5
1 2	9 16.94	+20 17.5	1.422	2.298	14.2	21.3
1 12	9 8.58	+20 42.0	1.365	2.303	9.5	21.0
1 22	8 57.62	+21 9.6	1.333	2.308	4.4	20.7
2 1	8 45.33	+21 33.8	1.328	2.312	2.0	20.6
2 11	8 33.39	+21 49.2	1.352	2.315	6.9	20.9
2 21	8 23.31	+21 53.1	1.402	2.319	11.8	21.2
3 2	8 16.20	+21 45.5	1.475	2.321	16.0	21.4
419083	2009 SU_{124}		1 30.2	144.°24	3.°6/ 1.4	18
12 23	9 13.23	+ 7 4.3	2.007	2.758	15.5	21.7
1 2	9 9.23	+ 6 49.7	1.917	2.760	12.6	21.5
1 12	9 2.94	+ 6 49.9	1.848	2.761	9.3	21.3
1 22	8 54.90	+ 7 4.5	1.805	2.763	5.7	21.0
2 1	8 45.94	+ 7 31.6	1.789	2.764	3.6	20.9
2 11	8 37.09	+ 8 7.5	1.802	2.766	5.5	21.0
2 21	8 29.36	+ 8 47.8	1.843	2.767	9.0	21.2
3 2	8 23.55	+ 9 28.1	1.910	2.768	12.4	21.5
104963	2000 JE_{54}		1 30.2	150.°43	1.°2/31.1	18
12 23	9 15.71	+12 3.9	2.614	3.362	12.4	20.6
1 2	9 10.51	+12 13.7	2.526	3.373	9.8	20.4
1 12	9 3.45	+12 32.9	2.462	3.385	6.8	20.2
1 22	8 55.02	+12 59.5	2.426	3.395	3.5	20.0
2 1	8 45.92	+13 30.6	2.421	3.404	1.3	19.9
2 11	8 36.98	+14 3.2	2.448	3.413	4.0	20.1
2 21	8 28.97	+14 34.0	2.504	3.421	7.3	20.3
3 2	8 22.53	+15 0.9	2.588	3.428	10.1	20.5
183971	2004 EG_{8}		1 30.2	57.°01	11.°3/25.5	18
12 23	9 33.03	+46 21.9	1.704	2.475	17.1	20.0
1 2	9 26.03	+47 21.0	1.645	2.481	14.7	19.9
1 12	9 14.78	+48 4.9	1.607	2.487	12.6	19.8
1 22	9 0.39	+48 21.9	1.592	2.493	11.4	19.7
2 1	8 44.77	+48 3.1	1.602	2.500	11.6	19.7
2 11	8 30.20	+47 7.0	1.637	2.507	13.2	19.8
2 21	8 18.52	+45 38.9	1.695	2.513	15.4	20.0
3 2	8 10.77	+43 48.0	1.773	2.520	17.7	20.2
431469	2007 RE_{316}		1 30.2	83.°86	4.°1/ 2.2	18
12 23	9 12.79	+ 3 57.8	2.352	3.080	14.1	21.2
1 2	9 8.35	+ 3 39.1	2.276	3.100	11.6	21.1
1 12	9 2.04	+ 3 34.8	2.222	3.121	8.7	20.9
1 22	8 54.37	+ 3 44.8	2.194	3.141	5.9	20.8
2 1	8 46.08	+ 4 7.6	2.194	3.161	4.2	20.7
2 11	8 38.01	+ 4 40.3	2.224	3.180	5.2	20.8
2 21	8 30.94	+ 5 18.9	2.282	3.200	7.8	21.0
3 2	8 25.50	+ 5 59.6	2.367	3.219	10.5	21.2
283464	2001 QN_{72}		1 30.2	108.°74	1.°5/29.6	18
12 23	9 20.57	+20 29.2	1.486	2.284	18.0	21.2
1 2	9 15.85	+20 37.1	1.410	2.289	14.1	20.9
1 12	9 7.83	+20 52.4	1.355	2.294	9.5	20.7
1 22	8 57.27	+21 10.1	1.323	2.298	4.4	20.4
2 1	8 45.43	+21 24.4	1.320	2.303	2.0	20.2
2 11	8 33.96	+21 30.3	1.344	2.308	6.9	20.6
2 21	8 24.36	+21 25.9	1.394	2.312	11.7	20.9
3 2	8 17.69	+21 11.2	1.466	2.316	15.9	21.1

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
452314	1999 LN_{28}		1 30.2	193.°95	1.°0/29.5	15 CR
	h m	° ′			°	m
12 23	9 20.55	+17 24.1	2.383	3.142	13.1	24.4
1 2	9 14.74	+18 13.0	2.281	3.139	10.3	24.2
1 12	9 6.60	+19 11.3	2.204	3.135	6.9	24.0
1 22	8 56.61	+20 14.8	2.156	3.129	3.2	23.8
2 1	8 45.57	+21 17.7	2.139	3.122	1.4	23.6
2 11	8 34.52	+22 14.8	2.155	3.114	5.1	23.9
2 21	8 24.48	+23 2.1	2.201	3.104	8.8	24.1
3 2	8 16.32	+23 37.6	2.274	3.093	12.1	24.3
157129	2004 NT_{20}		1 30.2	173.°14	1.°9/31.4	18
12 23	9 17.50	+10 36.6	1.971	2.728	15.6	21.6
1 2	9 12.63	+10 47.2	1.881	2.732	12.5	21.4
1 12	9 5.28	+11 11.7	1.812	2.735	8.7	21.2
1 22	8 56.01	+11 48.2	1.770	2.738	4.7	20.9
2 1	8 45.71	+12 32.7	1.757	2.739	1.9	20.7
2 11	8 35.53	+13 20.5	1.773	2.740	5.2	21.0
2 21	8 26.57	+14 6.6	1.819	2.740	9.2	21.2
3 2	8 19.70	+14 47.5	1.890	2.739	12.9	21.4
263086	2007 SX_{15}		1 30.2	227.°21	12.°2/ 7.7	18
12 23	9 13.34	−12 37.4	1.409	2.093	23.7	21.1
1 2	9 10.52	−13 3.9	1.320	2.089	21.3	20.8
1 12	9 4.54	−12 52.0	1.244	2.084	18.3	20.6
1 22	8 55.92	−11 54.5	1.185	2.078	15.1	20.4
2 1	8 45.70	−10 8.2	1.149	2.073	12.7	20.2
2 11	8 35.40	− 7 38.1	1.136	2.067	12.3	20.2
2 21	8 26.58	− 4 37.3	1.148	2.060	14.3	20.3
3 2	8 20.49	− 1 23.3	1.185	2.053	17.6	20.5
265027	2003 MH_{2}		1 30.2	252.°86	1.°7/28.6	18
12 23	9 15.10	+15 38.7	2.314	3.081	13.2	20.3
1 2	9 10.82	+17 22.7	2.200	3.064	10.4	20.1
1 12	9 4.20	+19 23.3	2.112	3.046	7.0	19.9
1 22	8 55.62	+21 34.6	2.053	3.027	3.2	19.6
2 1	8 45.77	+23 48.3	2.028	3.008	2.2	19.5
2 11	8 35.65	+25 55.2	2.035	2.989	5.9	19.7
2 21	8 26.31	+27 47.8	2.074	2.969	9.7	19.9
3 2	8 18.74	+29 21.9	2.139	2.949	13.1	20.1
168231	2006 KK_{40}		1 30.2	208.°02	4.°2/ 2.4	18
12 23	9 10.96	+ 2 53.3	2.501	3.223	13.5	20.5
1 2	9 7.03	+ 2 42.5	2.400	3.220	11.2	20.3
1 12	9 1.27	+ 2 46.4	2.322	3.216	8.6	20.2
1 22	8 54.09	+ 3 5.2	2.269	3.213	5.9	20.0
2 1	8 46.15	+ 3 37.6	2.244	3.209	4.2	19.9
2 11	8 38.25	+ 4 20.7	2.249	3.205	5.2	19.9
2 21	8 31.17	+ 5 10.6	2.283	3.201	7.8	20.1
3 2	8 25.59	+ 6 3.0	2.344	3.196	10.6	20.2
79342	1996 VB_{15}		1 30.2	49.°56	1.°7/29.1	18
12 23	9 12.65	+20 45.4	2.148	2.937	13.4	19.8
1 2	9 8.69	+21 17.4	2.069	2.944	10.4	19.6
1 12	9 2.51	+21 55.5	2.014	2.952	7.0	19.4
1 22	8 54.68	+22 35.4	1.985	2.959	3.3	19.2
2 1	8 46.03	+23 12.1	1.986	2.967	2.1	19.1
2 11	8 37.59	+23 41.6	2.016	2.975	5.4	19.3
2 21	8 30.31	+24 1.1	2.073	2.983	8.9	19.6
3 2	8 24.92	+24 9.7	2.156	2.991	12.1	19.8
347140	2010 OU_{70}		1 30.2	83.°29	2.°0/28.4	18
12 23	9 11.27	+20 15.3	2.362	3.147	12.5	20.5
1 2	9 7.49	+21 20.1	2.281	3.154	9.7	20.3
1 12	9 1.66	+22 32.6	2.224	3.161	6.4	20.1
1 22	8 54.29	+23 47.4	2.195	3.168	3.2	19.9
2 1	8 46.11	+24 59.0	2.196	3.175	2.4	19.9
2 11	8 38.04	+26 1.7	2.228	3.182	5.4	20.1
2 21	8 30.95	+26 52.2	2.289	3.189	8.7	20.3
3 2	8 25.58	+27 28.8	2.374	3.196	11.5	20.5
59203	1999 BC_{9}		1 30.2	43.°12	0.°9/30.8	18
12 23	9 11.25	+10 3.8	1.495	2.283	18.3	18.4
1 2	9 8.40	+11 6.4	1.426	2.297	14.5	18.2
1 12	9 2.73	+12 30.8	1.378	2.312	9.9	18.0
1 22	8 54.90	+14 11.7	1.355	2.327	4.8	17.7
2 1	8 45.99	+16 0.3	1.359	2.343	1.1	17.5
2 11	8 37.35	+17 46.4	1.391	2.360	5.9	17.8
2 21	8 30.23	+19 21.4	1.450	2.376	10.7	18.2
3 2	8 25.58	+20 39.8	1.533	2.393	14.7	18.4
12288	Verdun		1 30.2	43.°56	6.°5/27.5	18
12 23	9 19.95	+28 24.7	1.189	2.013	20.0	17.2
1 2	9 16.31	+29 24.7	1.131	2.022	15.8	17.0
1 12	9 8.59	+30 27.3	1.092	2.032	11.2	16.7
1 22	8 57.73	+31 21.3	1.076	2.042	7.2	16.5
2 1	8 45.38	+31 55.4	1.084	2.053	7.0	16.6
2 11	8 33.69	+32 3.2	1.118	2.064	10.6	16.8
2 21	8 24.48	+31 44.8	1.174	2.075	14.9	17.1
3 2	8 18.94	+31 4.8	1.250	2.087	18.9	17.3

120887 1998 RF_{70} 1 30.2 154.°53 2.°8/28.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 20.84	+22 34.5	1.780	2.568	15.8	20.6
1 2	9 15.63	+23 19.2	1.702	2.576	12.4	20.3
1 12	9 7.48	+24 10.6	1.646	2.583	8.3	20.1
1 22	8 57.07	+25 2.0	1.617	2.589	4.3	19.9
2 1	8 45.51	+25 46.2	1.617	2.595	3.3	19.8
2 11	8 34.23	+26 17.6	1.646	2.600	7.0	20.1
2 21	8 24.54	+26 33.5	1.702	2.605	11.0	20.3
3 2	8 17.41	+26 34.3	1.782	2.609	14.6	20.6

246059 2006 VL_{48} 1 30.2 126.°46 3.°3/27.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.19	+23 10.2	2.105	2.890	13.8	20.8
1 2	9 12.34	+24 25.4	2.033	2.906	10.7	20.6
1 12	9 5.04	+25 46.7	1.985	2.920	7.2	20.4
1 22	8 55.88	+27 7.3	1.965	2.935	4.0	20.3
2 1	8 45.79	+28 19.7	1.976	2.948	3.7	20.3
2 11	8 35.91	+29 18.0	2.016	2.962	6.6	20.5
2 21	8 27.31	+29 59.4	2.085	2.974	10.0	20.7
3 2	8 20.82	+30 23.6	2.178	2.986	12.9	20.9

32758 1981 ES_{18} 1 30.2 289.°16 1.°5/30.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.33	+12 53.0	1.546	2.334	17.8	19.8
1 2	9 11.19	+12 56.1	1.442	2.313	14.4	19.5
1 12	9 4.97	+13 14.5	1.358	2.292	10.1	19.2
1 22	8 56.15	+13 46.5	1.298	2.270	5.1	18.9
2 1	8 45.69	+14 27.9	1.265	2.249	1.6	18.6
2 11	8 35.06	+15 12.6	1.258	2.227	6.4	18.8
2 21	8 25.75	+15 54.8	1.278	2.206	11.7	19.1
3 2	8 19.04	+16 29.8	1.320	2.185	16.4	19.3

73703 Billings 1 30.2 339.°91 5.°0/26.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.14	+30 5.6	2.164	2.961	13.1	19.0
1 2	9 10.14	+31 7.7	2.084	2.959	10.4	18.8
1 12	9 3.67	+32 10.6	2.027	2.957	7.5	18.6
1 22	8 55.30	+33 7.4	1.997	2.955	5.3	18.5
2 1	8 45.93	+33 51.6	1.996	2.954	5.5	18.5
2 11	8 36.71	+34 18.6	2.023	2.952	7.8	18.6
2 21	8 28.73	+34 26.7	2.076	2.951	10.7	18.8
3 2	8 22.87	+34 17.0	2.153	2.950	13.4	19.0

375348 2008 SX_{51} 1 30.2 42.°81 0.°9/30.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.48	+13 42.2	1.836	2.618	15.6	21.0
1 2	9 8.80	+13 53.3	1.761	2.629	12.3	20.8
1 12	9 2.71	+14 16.4	1.708	2.641	8.4	20.6
1 22	8 54.81	+14 48.7	1.681	2.653	4.1	20.3
2 1	8 46.05	+15 25.9	1.681	2.666	1.1	20.1
2 11	8 37.54	+16 3.1	1.711	2.679	5.1	20.4
2 21	8 30.34	+16 36.3	1.767	2.692	9.2	20.7
3 2	8 25.23	+17 2.6	1.848	2.705	12.8	20.9

286357 2001 XU_{134} 1 30.2 110.°25 3.°2/27.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.06	+24 37.2	2.225	3.007	13.2	21.5
1 2	9 12.77	+25 35.9	2.159	3.030	10.3	21.3
1 12	9 5.17	+26 38.1	2.118	3.052	7.0	21.2
1 22	8 55.89	+27 37.6	2.104	3.073	3.9	21.0
2 1	8 45.82	+28 28.4	2.121	3.093	3.6	21.0
2 11	8 36.07	+29 6.1	2.168	3.113	6.3	21.2
2 21	8 27.60	+29 28.8	2.244	3.133	9.4	21.5
3 2	8 21.17	+29 36.9	2.344	3.152	12.1	21.7

291015 2005 YH_9 1 30.2 0.°30 2.°1/31.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.55	+11 49.1	1.790	2.566	16.2	20.9
1 2	9 9.82	+11 38.2	1.703	2.565	13.0	20.7
1 12	9 3.53	+11 40.1	1.637	2.565	9.1	20.4
1 22	8 55.26	+11 53.1	1.596	2.565	4.9	20.2
2 1	8 45.96	+12 14.5	1.583	2.565	2.1	20.0
2 11	8 36.81	+12 40.3	1.598	2.566	5.5	20.2
2 21	8 28.94	+13 6.4	1.640	2.566	9.7	20.5
3 2	8 23.25	+13 29.3	1.706	2.567	13.5	20.7

211632 2003 UQ_{136} 1 30.2 88.°13 4.°4/27.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 19.85	+26 24.2	1.638	2.439	16.4	20.6
1 2	9 15.06	+27 14.2	1.573	2.452	12.9	20.4
1 12	9 7.16	+28 7.2	1.530	2.466	8.9	20.2
1 22	8 56.93	+28 55.5	1.512	2.480	5.3	20.0
2 1	8 45.62	+29 31.1	1.522	2.493	4.8	20.0
2 11	8 34.76	+29 49.1	1.560	2.507	8.0	20.2
2 21	8 25.72	+29 48.2	1.623	2.520	11.8	20.5
3 2	8 19.44	+29 30.4	1.709	2.533	15.2	20.7

222744 2002 BQ_{11} 1 30.2 1.°24 0.°2/30.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.76	+16 22.9	1.558	2.357	17.2	19.7
1 2	9 9.62	+16 25.8	1.477	2.356	13.6	19.5
1 12	9 3.62	+16 39.9	1.417	2.355	9.2	19.2
1 22	8 55.37	+17 1.8	1.381	2.355	4.3	18.9
2 1	8 45.95	+17 26.9	1.371	2.356	0.9	18.7
2 11	8 36.75	+17 50.1	1.389	2.358	6.0	19.0
2 21	8 29.06	+18 7.6	1.433	2.360	10.7	19.3
3 2	8 23.87	+18 17.0	1.500	2.363	14.9	19.6

471105 2010 BN_{55} 1 30.2 163.°51 4.°6/25.5 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.83	+28 49.2	2.633	3.419	11.3	21.2
1 2	9 9.54	+30 28.9	2.552	3.422	8.9	21.0
1 12	9 3.13	+32 11.4	2.498	3.424	6.4	20.9
1 22	8 55.04	+33 49.8	2.473	3.427	4.7	20.7
2 1	8 46.02	+35 17.2	2.478	3.429	5.1	20.8
2 11	8 36.99	+36 28.1	2.514	3.431	7.2	20.9
2 21	8 28.88	+37 20.0	2.579	3.432	9.6	21.1
3 2	8 22.48	+37 52.6	2.667	3.434	11.9	21.2

65784 Naderayama 1 30.2 86.°16 3.°4/28.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 24.81	+23 13.2	1.498	2.292	18.0	19.0
1 2	9 18.82	+24 3.3	1.448	2.324	14.0	18.8
1 12	9 9.55	+24 58.9	1.418	2.356	9.3	18.6
1 22	8 57.95	+25 51.7	1.415	2.386	4.9	18.5
2 1	8 45.43	+26 33.6	1.439	2.416	3.8	18.5
2 11	8 33.66	+26 59.1	1.492	2.446	7.6	18.8
2 21	8 24.01	+27 7.0	1.571	2.474	11.7	19.1
3 2	8 17.38	+26 59.1	1.673	2.502	15.3	19.4

32804 1990 SO_2 1 30.2 181.°74 1.°1/29.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.85	+17 30.3	2.037	2.812	14.6	19.0
1 2	9 12.98	+18 16.9	1.947	2.813	11.4	18.8
1 12	9 5.60	+19 14.0	1.879	2.814	7.6	18.6
1 22	8 56.23	+20 16.8	1.840	2.814	3.5	18.3
2 1	8 45.79	+21 19.1	1.830	2.813	1.6	18.2
2 11	8 35.42	+22 15.0	1.850	2.811	5.6	18.4
2 21	8 26.26	+23 0.2	1.899	2.809	9.6	18.7
3 2	8 19.22	+23 32.6	1.974	2.805	13.2	18.9

520802 2014 SP_{362} 1 30.2 71.°22 1.°0/29.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.14	+19 16.2	1.748	2.538	16.0	21.3
1 2	9 12.61	+19 28.0	1.674	2.549	12.5	21.1
1 12	9 5.36	+19 47.4	1.622	2.560	8.4	20.9
1 22	8 56.08	+20 10.0	1.596	2.571	3.8	20.6
2 1	8 45.84	+20 31.1	1.598	2.582	1.5	20.5
2 11	8 35.94	+20 46.2	1.629	2.593	5.8	20.8
2 21	8 27.57	+20 53.0	1.687	2.604	10.1	21.1
3 2	8 21.59	+20 50.6	1.769	2.616	13.7	21.3

26599 2000 EZ_{171} 1 30.2 226.°89 1.°0/29.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.84	+18 9.8	2.766	3.536	11.2	18.6
1 2	9 7.71	+18 55.5	2.661	3.526	8.8	18.5
1 12	9 1.75	+19 49.0	2.582	3.516	5.9	18.3
1 22	8 54.38	+20 46.6	2.531	3.505	2.7	18.0
2 1	8 46.20	+21 44.1	2.511	3.494	1.4	17.9
2 11	8 38.00	+22 37.2	2.522	3.482	4.4	18.1
2 21	8 30.56	+23 22.6	2.564	3.470	7.6	18.3
3 2	8 24.56	+23 58.3	2.631	3.457	10.4	18.5

415524 2014 QF_{32} 1 30.2 141.°57 7.°1/25.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 25.51	+36 41.6	2.067	2.845	14.2	21.5
1 2	9 19.14	+37 44.3	2.000	2.857	11.6	21.3
1 12	9 9.75	+38 41.6	1.957	2.868	9.0	21.2
1 22	8 58.10	+39 24.7	1.941	2.878	7.3	21.1
2 1	8 45.41	+39 46.5	1.953	2.888	7.5	21.1
2 11	8 33.19	+39 43.6	1.993	2.897	9.4	21.2
2 21	8 22.75	+39 17.1	2.059	2.905	12.0	21.4
3 2	8 15.05	+38 31.3	2.148	2.913	14.5	21.6

196014 2002 RV_{258} 1 30.2 66.°61 0.°4/30.0 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.97	+17 10.7	1.676	2.466	16.6	21.6
1 2	9 11.91	+17 24.8	1.596	2.470	13.0	21.3
1 12	9 5.04	+17 49.1	1.537	2.474	8.8	21.1
1 22	8 56.00	+18 19.8	1.504	2.479	4.0	20.8
2 1	8 45.85	+18 51.6	1.498	2.483	1.0	20.6
2 11	8 35.95	+19 19.4	1.521	2.487	5.9	21.0
2 21	8 27.54	+19 39.5	1.570	2.492	10.4	21.2
3 2	8 21.58	+19 50.2	1.644	2.496	14.3	21.5

49409 1998 XS_{50} 1 30.2 94.°83 1.°4/31.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.99	+13 13.9	2.276	3.038	13.6	19.0
1 2	9 10.22	+13 4.7	2.196	3.051	10.8	18.8
1 12	9 3.40	+13 4.3	2.138	3.064	7.4	18.6
1 22	8 55.09	+13 11.2	2.108	3.077	3.8	18.4
2 1	8 46.08	+13 22.9	2.107	3.090	1.4	18.3
2 11	8 37.30	+13 36.6	2.136	3.102	4.4	18.5
2 21	8 29.61	+13 49.7	2.194	3.115	7.9	18.7
3 2	8 23.70	+14 0.1	2.279	3.127	11.0	19.0

7562 Kagiroino–Oka 1 30.2 28.°05 1.°7/31.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.62	+11 32.5	1.937	2.708	15.3	17.3
1 2	9 8.91	+11 39.9	1.849	2.709	12.2	17.1
1 12	9 2.84	+12 0.5	1.783	2.710	8.5	16.9
1 22	8 54.95	+12 32.3	1.742	2.712	4.5	16.7
2 1	8 46.09	+13 11.8	1.730	2.713	1.7	16.5
2 11	8 37.37	+13 54.2	1.746	2.714	5.1	16.7
2 21	8 29.81	+14 35.0	1.790	2.715	9.1	16.9
3 2	8 24.25	+15 10.6	1.860	2.717	12.7	17.2

424640 2008 LO_{11} 1 30.2 257.°70 6.°9/ 3.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.54	− 1 31.8	2.073	2.784	16.3	21.8
1 2	9 8.80	− 2 10.6	1.969	2.772	13.9	21.6
1 12	9 2.79	− 2 30.9	1.884	2.760	11.2	21.4
1 22	8 54.97	− 2 30.3	1.823	2.748	8.6	21.2
2 1	8 46.08	− 2 8.1	1.788	2.735	7.0	21.1
2 11	8 37.14	− 1 26.6	1.780	2.723	7.6	21.1
2 21	8 29.15	− 0 30.2	1.800	2.710	10.0	21.2
3 2	8 22.99	+ 0 34.8	1.844	2.697	13.0	21.3

403574 2010 NM_{97} 1 30.2 79.°18 2.°9/28.9 18

12 23	9 22.64	+24 56.6	1.750	2.539	16.0	20.9
1 2	9 16.76	+25 12.5	1.689	2.562	12.5	20.7
1 12	9 8.02	+25 30.4	1.649	2.585	8.4	20.5
1 22	8 57.24	+25 44.7	1.636	2.607	4.4	20.3
2 1	8 45.64	+25 50.1	1.652	2.630	3.3	20.3
2 11	8 34.64	+25 43.5	1.696	2.652	6.7	20.6
2 21	8 25.44	+25 24.7	1.768	2.673	10.5	20.8
3 2	8 18.86	+24 55.2	1.864	2.695	13.9	21.1

453290 2008 TX_{172} 1 30.2 188.°44 3.°7/ 1.2 18

12 23	9 17.73	+ 7 33.8	1.840	2.591	16.7	22.5
1 2	9 13.04	+ 7 18.0	1.747	2.591	13.7	22.3
1 12	9 5.72	+ 7 17.7	1.675	2.590	10.0	22.0
1 22	8 56.33	+ 7 32.6	1.628	2.588	6.1	21.8
2 1	8 45.80	+ 8 0.7	1.609	2.586	3.7	21.6
2 11	8 35.35	+ 8 37.8	1.619	2.583	5.9	21.8
2 21	8 26.17	+ 9 19.1	1.657	2.580	9.9	22.0
3 2	8 19.21	+ 9 59.9	1.720	2.575	13.7	22.2

68900 2002 JC_{98} 1 30.2 217.°14 0.°8/31.0 17

12 23	9 8.73	+11 58.3	3.009	3.763	10.8	19.7
1 2	9 5.06	+12 28.6	2.907	3.759	8.5	19.6
1 12	8 59.84	+13 8.4	2.830	3.755	5.9	19.4
1 22	8 53.46	+13 55.6	2.781	3.751	2.9	19.2
2 1	8 46.44	+14 47.3	2.763	3.747	0.9	19.0
2 11	8 39.46	+15 40.0	2.776	3.743	3.5	19.2
2 21	8 33.14	+16 30.3	2.819	3.738	6.5	19.4
3 2	8 28.05	+17 15.7	2.890	3.733	9.1	19.6

466781 2015 AH_{274} 1 30.2 222.°02 2.°6/28.1 16

12 23	9 12.95	+22 28.5	2.365	3.151	12.4	21.8
1 2	9 8.94	+23 29.1	2.273	3.146	9.7	21.6
1 12	9 2.77	+24 36.1	2.205	3.141	6.5	21.4
1 22	8 54.92	+25 44.4	2.165	3.136	3.5	21.2
2 1	8 46.12	+26 48.0	2.155	3.131	3.0	21.2
2 11	8 37.36	+27 41.6	2.175	3.125	5.9	21.3
2 21	8 29.57	+28 22.0	2.224	3.119	9.1	21.5
3 2	8 23.55	+28 47.9	2.297	3.113	12.1	21.7

472369 2015 BN_{58} 1 30.2 319.°13 1.°9/28.8 17

12 23	9 10.92	+18 45.6	1.974	2.767	14.3	21.1
1 2	9 7.78	+19 48.2	1.882	2.760	11.2	20.9
1 12	9 2.21	+21 2.1	1.813	2.753	7.5	20.6
1 22	8 54.73	+22 21.9	1.772	2.746	3.5	20.4
2 1	8 46.15	+23 40.6	1.759	2.740	2.4	20.3
2 11	8 37.60	+24 51.1	1.775	2.733	6.1	20.5
2 21	8 30.14	+25 48.6	1.818	2.727	10.0	20.7
3 2	8 24.71	+26 30.5	1.886	2.721	13.5	20.9

201962 2004 NN_{20} 1 30.2 140.°62 2.°8/31.7 18

12 23	9 18.39	+ 9 45.3	1.772	2.532	17.0	21.4
1 2	9 13.53	+ 9 35.8	1.690	2.542	13.6	21.2
1 12	9 5.99	+ 9 40.9	1.630	2.551	9.7	20.9
1 22	8 56.42	+ 9 59.3	1.594	2.559	5.5	20.7
2 1	8 45.81	+10 28.0	1.587	2.567	2.8	20.5
2 11	8 35.43	+11 2.5	1.609	2.574	5.7	20.7
2 21	8 26.46	+11 38.2	1.658	2.581	9.8	21.0
3 2	8 19.81	+12 11.2	1.732	2.587	13.6	21.2

235965 2005 EG_{218} 1 30.2 42.°84 3.°5/28.0 18

12 23	9 16.06	+27 5.5	2.199	2.989	13.1	20.4
1 2	9 11.44	+27 35.8	2.117	2.990	10.3	20.2
1 12	9 4.43	+28 7.3	2.058	2.992	7.1	20.0
1 22	8 55.65	+28 34.9	2.026	2.993	4.2	19.8
2 1	8 45.98	+28 53.3	2.023	2.994	3.8	19.8
2 11	8 36.54	+28 59.3	2.049	2.996	6.5	19.9
2 21	8 28.35	+28 51.6	2.103	2.997	9.6	20.1
3 2	8 22.21	+28 31.1	2.181	2.999	12.6	20.3

87054 2000 KU_{30} 1 30.2 220.°67 1.°0/30.8 18

12 23	9 15.09	+13 48.6	2.064	2.834	14.6	19.6
1 2	9 10.77	+13 54.7	1.968	2.828	11.6	19.3
1 12	9 4.08	+14 11.5	1.893	2.823	8.0	19.1
1 22	8 55.54	+14 36.6	1.846	2.817	3.9	18.8
2 1	8 46.00	+15 6.7	1.827	2.811	1.1	18.6
2 11	8 36.51	+15 37.5	1.838	2.805	5.0	18.9
2 21	8 28.14	+16 5.4	1.877	2.798	9.0	19.1
3 2	8 21.73	+16 27.8	1.941	2.791	12.6	19.3

399523 2002 XH_{73} 1 30.2 110.°61 4.°0/ 1.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.66	+ 6 24.3	2.048	2.785	15.7	20.7
1 2	9 12.46	+ 5 56.4	1.971	2.804	12.7	20.6
1 12	9 4.99	+ 5 42.7	1.915	2.822	9.4	20.4
1 22	8 55.86	+ 5 43.1	1.885	2.839	6.0	20.2
2 1	8 45.95	+ 5 56.1	1.884	2.856	4.0	20.1
2 11	8 36.32	+ 6 18.6	1.913	2.873	5.6	20.3
2 21	8 27.93	+ 6 46.9	1.970	2.889	8.8	20.5
3 2	8 21.52	+ 7 16.9	2.053	2.904	11.9	20.7

266797 2009 SG_{316} 1 30.2 306.°65 3.°5/28.2 18

12 23	9 14.92	+24 34.6	1.806	2.607	15.1	21.0
1 2	9 11.21	+25 16.8	1.716	2.597	11.9	20.8
1 12	9 4.68	+26 4.4	1.650	2.588	8.1	20.5
1 22	8 55.92	+26 51.1	1.608	2.579	4.5	20.3
2 1	8 45.91	+27 30.0	1.595	2.570	3.9	20.2
2 11	8 36.02	+27 55.4	1.610	2.562	7.3	20.4
2 21	8 27.50	+28 4.7	1.651	2.554	11.3	20.6
3 2	8 21.40	+27 58.0	1.715	2.546	14.9	20.8

322028 2010 VO_{20} 1 30.2 116.°70 1.°4/29.2 18

12 23	9 16.53	+18 39.0	2.085	2.864	14.1	21.4
1 2	9 11.73	+19 29.8	2.012	2.881	11.0	21.2
1 12	9 4.59	+20 29.2	1.963	2.898	7.3	21.0
1 22	8 55.71	+21 32.0	1.941	2.915	3.4	20.8
2 1	8 45.98	+22 32.1	1.949	2.931	1.9	20.7
2 11	8 36.51	+23 24.1	1.987	2.946	5.5	21.0
2 21	8 28.28	+24 4.7	2.054	2.961	9.1	21.2
3 2	8 22.08	+24 32.3	2.146	2.976	12.3	21.5

31424 1999 BW_2 1 30.2 315.°01 6.°9/27.5 18

12 23	9 22.70	+31 56.3	1.418	2.227	18.1	18.0
1 2	9 18.26	+32 36.6	1.340	2.221	14.6	17.8
1 12	9 9.92	+33 15.1	1.283	2.215	10.7	17.5
1 22	8 58.46	+33 41.8	1.249	2.208	7.5	17.3
2 1	8 45.37	+33 47.2	1.240	2.203	7.3	17.3
2 11	8 32.69	+33 26.2	1.258	2.197	10.4	17.5
2 21	8 22.23	+32 39.9	1.299	2.192	14.5	17.7
3 2	8 15.27	+31 33.4	1.362	2.187	18.3	17.9

144492 2004 EQ_{65} 1 30.2 168.°31 5.°9/25.7 18

12 23	9 19.18	+32 15.1	2.218	3.004	13.1	20.0
1 2	9 14.12	+33 36.8	2.142	3.009	10.5	19.8
1 12	9 6.41	+34 58.1	2.091	3.012	7.9	19.7
1 22	8 56.64	+36 11.0	2.067	3.015	6.0	19.5
2 1	8 45.78	+37 8.1	2.072	3.018	6.4	19.6
2 11	8 35.07	+37 44.2	2.107	3.020	8.5	19.7
2 21	8 25.69	+37 58.2	2.167	3.021	11.2	19.9
3 2	8 18.58	+37 51.9	2.251	3.022	13.7	20.1

373336 2012 JC_{34} 1 30.2 248.°35 7.°0/ 3.5 17

12 23	9 13.20	− 2 10.7	2.217	2.917	15.6	21.3
1 2	9 9.16	− 2 57.2	2.110	2.905	13.4	21.1
1 12	9 2.97	− 3 26.6	2.024	2.893	10.9	20.9
1 22	8 55.04	− 3 36.4	1.962	2.881	8.5	20.7
2 1	8 46.12	− 3 25.6	1.926	2.868	7.0	20.6
2 11	8 37.13	− 2 55.6	1.918	2.855	7.6	20.6
2 21	8 29.04	− 2 10.4	1.937	2.841	9.8	20.7
3 2	8 22.67	− 1 15.3	1.982	2.828	12.5	20.9

239259 2007 DB_{53} 1 30.2 303.°28 0.°9/29.9 18

12 23	9 17.65	+19 1.9	1.349	2.156	19.0	20.6
1 2	9 14.17	+19 5.1	1.262	2.146	15.1	20.3
1 12	9 7.15	+19 18.2	1.195	2.136	10.2	20.0
1 22	8 57.22	+19 36.8	1.151	2.127	4.7	19.7
2 1	8 45.63	+19 54.9	1.133	2.118	1.6	19.4
2 11	8 34.16	+20 6.7	1.142	2.109	7.3	19.7
2 21	8 24.51	+20 8.8	1.175	2.100	12.7	20.0
3 2	8 17.98	+20 0.1	1.230	2.092	17.5	20.3

323801 2005 QT_{156} 1 30.2 75.°51 2.°2/31.3 18

12 23	9 18.00	+12 53.4	1.810	2.580	16.3	20.3
1 2	9 13.11	+12 23.7	1.731	2.590	13.0	20.1
1 12	9 5.64	+12 4.3	1.673	2.599	9.1	19.9
1 22	8 56.23	+11 54.0	1.641	2.609	4.9	19.7
2 1	8 45.89	+11 50.9	1.638	2.619	2.2	19.5
2 11	8 35.86	+11 52.2	1.663	2.629	5.5	19.7
2 21	8 27.24	+11 55.2	1.716	2.639	9.5	20.0
3 2	8 20.91	+11 57.5	1.794	2.649	13.2	20.3

419145 2009 SF_{290} 1 30.2 55.°62 2.°5/28.6 18

12 23	9 14.48	+21 49.3	1.819	2.616	15.2	21.5
1 2	9 10.59	+22 34.5	1.745	2.624	11.8	21.3
1 12	9 4.07	+23 26.7	1.693	2.633	7.9	21.1
1 22	8 55.55	+24 20.1	1.668	2.641	4.0	20.9
2 1	8 46.04	+25 8.0	1.671	2.650	3.0	20.8
2 11	8 36.78	+25 44.8	1.702	2.659	6.5	21.1
2 21	8 28.93	+26 7.7	1.760	2.668	10.4	21.3
3 2	8 23.37	+26 16.1	1.842	2.677	13.8	21.6

319571 2006 SQ_{87} 1 30.2 213.°93 1.°1/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.73	+12 58.1	1.875	2.649	15.7	22.0
1 2	9 10.72	+13 10.5	1.783	2.646	12.5	21.8
1 12	9 4.17	+13 35.9	1.713	2.643	8.6	21.6
1 22	8 55.63	+14 11.7	1.669	2.640	4.3	21.3
2 1	8 46.01	+14 53.8	1.653	2.637	1.2	21.1
2 11	8 36.47	+15 37.0	1.666	2.634	5.3	21.3
2 21	8 28.15	+16 16.7	1.707	2.630	9.6	21.6
3 2	8 21.97	+16 49.6	1.772	2.626	13.4	21.8

217104 2001 XD_{72} 1 30.2 111.°66 1.°1/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.94	+18 2.6	2.098	2.876	14.1	21.1
1 2	9 11.24	+18 44.0	2.024	2.892	10.9	20.9
1 12	9 4.25	+19 34.0	1.974	2.909	7.3	20.7
1 22	8 55.56	+20 27.9	1.950	2.925	3.3	20.5
2 1	8 46.05	+21 20.2	1.957	2.940	1.5	20.4
2 11	8 36.79	+22 6.0	1.994	2.955	5.2	20.7
2 21	8 28.76	+22 41.9	2.059	2.970	8.9	20.9
3 2	8 22.73	+23 6.4	2.150	2.984	12.1	21.2

244997 2004 CT_3 1 30.2 235.°42 0.°7/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.47	+11 37.1	2.501	3.260	12.6	20.7
1 2	9 6.80	+12 23.9	2.399	3.254	10.0	20.5
1 12	9 1.24	+13 23.7	2.321	3.248	6.8	20.3
1 22	8 54.20	+14 33.6	2.270	3.242	3.4	20.1
2 1	8 46.33	+15 49.2	2.250	3.235	0.8	19.8
2 11	8 38.45	+17 5.2	2.262	3.228	4.2	20.1
2 21	8 31.37	+18 16.8	2.303	3.221	7.7	20.3
3 2	8 25.81	+19 20.2	2.370	3.214	10.8	20.5

230478 2002 TA_{14} 1 30.2 67.°93 1.°6/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.98	+10 58.8	1.302	2.095	20.3	19.9
1 2	9 12.47	+11 23.6	1.238	2.110	16.1	19.7
1 12	9 5.68	+12 9.0	1.193	2.126	11.1	19.4
1 22	8 56.38	+13 10.9	1.170	2.142	5.6	19.1
2 1	8 45.87	+14 22.2	1.174	2.158	1.7	18.9
2 11	8 35.77	+15 33.9	1.205	2.174	6.5	19.3
2 21	8 27.54	+16 38.4	1.261	2.190	11.6	19.6
3 2	8 22.23	+17 30.7	1.339	2.206	16.0	19.9

85142 1981 EO_{29} 1 30.2 305.°91 1.°1/31.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.73	+12 54.8	2.946	3.704	10.9	20.3
1 2	9 5.14	+12 54.9	2.834	3.688	8.6	20.1
1 12	8 59.96	+13 2.7	2.746	3.671	6.0	19.9
1 22	8 53.55	+13 16.8	2.685	3.654	3.1	19.7
2 1	8 46.47	+13 35.3	2.655	3.638	1.2	19.5
2 11	8 39.40	+13 55.9	2.655	3.622	3.7	19.7
2 21	8 32.98	+14 16.1	2.685	3.606	6.6	19.8
3 2	8 27.82	+14 33.8	2.741	3.590	9.4	20.0

55585 2002 PQ_{45} 1 30.2 101.°11 4.°1/28.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.14	+24 0.2	1.515	2.314	17.6	19.5
1 2	9 17.00	+25 4.3	1.455	2.335	13.7	19.3
1 12	9 8.57	+26 14.6	1.417	2.355	9.3	19.1
1 22	8 57.65	+27 22.2	1.405	2.375	5.2	18.9
2 1	8 45.61	+28 17.7	1.420	2.394	4.6	19.0
2 11	8 34.08	+28 54.8	1.463	2.413	8.2	19.2
2 21	8 24.54	+29 11.3	1.532	2.431	12.2	19.5
3 2	8 17.98	+29 9.0	1.623	2.448	15.8	19.8

46576 1992 EP_{10} 1 30.2 291.°77 5.°0/ 2.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.94	+ 1 37.1	1.765	2.508	17.6	18.3
1 2	9 7.92	+ 1 49.3	1.670	2.503	14.7	18.0
1 12	9 2.40	+ 2 25.5	1.594	2.497	11.2	17.8
1 22	8 54.86	+ 3 25.8	1.542	2.492	7.5	17.6
2 1	8 46.17	+ 4 47.5	1.517	2.487	5.0	17.4
2 11	8 37.49	+ 6 24.0	1.519	2.482	6.4	17.5
2 21	8 29.95	+ 8 7.0	1.549	2.477	10.0	17.7
3 2	8 24.51	+ 9 47.9	1.604	2.472	13.8	17.9

489208 2006 JX_{42} 1 30.2 201.°02 0.°6/30.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.41	+13 37.1	2.107	2.872	14.5	22.9
1 2	9 11.78	+13 59.3	2.010	2.868	11.5	22.7
1 12	9 4.77	+14 33.4	1.935	2.863	7.9	22.5
1 22	8 55.89	+15 16.4	1.886	2.858	3.8	22.2
2 1	8 45.97	+16 4.0	1.868	2.852	0.9	22.0
2 11	8 36.08	+16 51.3	1.879	2.846	5.0	22.3
2 21	8 27.28	+17 34.0	1.920	2.838	9.0	22.5
3 2	8 20.44	+18 9.1	1.986	2.830	12.6	22.7

127822 2003 FV_{91} 1 30.2 122.°81 8.°4/ 6.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.86	− 9 50.3	2.026	2.682	18.1	19.7
1 2	9 11.19	− 9 59.2	1.947	2.702	15.8	19.6
1 12	9 4.23	− 9 41.0	1.885	2.721	13.1	19.4
1 22	8 55.57	− 8 53.8	1.846	2.739	10.5	19.3
2 1	8 46.07	− 7 38.1	1.832	2.756	8.7	19.2
2 11	8 36.78	− 5 58.8	1.846	2.772	8.6	19.2
2 21	8 28.68	− 4 3.9	1.889	2.788	10.3	19.4
3 2	8 22.55	− 2 2.5	1.958	2.803	12.7	19.5

499138 2009 QC_{41} 1 30.2 117.°51 0.°8/31.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.29	+12 32.4	3.934	4.678	8.6	22.7
1 2	9 4.22	+12 44.6	3.849	4.696	6.8	22.6
1 12	8 59.02	+13 2.8	3.791	4.713	4.6	22.5
1 22	8 53.01	+13 25.6	3.761	4.730	2.4	22.3
2 1	8 46.63	+13 51.2	3.763	4.746	0.8	22.2
2 11	8 40.36	+14 17.6	3.797	4.763	2.7	22.4
2 21	8 34.64	+14 43.0	3.862	4.779	4.9	22.5
3 2	8 29.88	+15 5.9	3.955	4.794	6.9	22.7

317186 2001 XY_{258} 1 30.2 74.°82 0.°2/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.84	+13 43.9	1.797	2.576	16.1	20.9
1 2	9 10.66	+14 24.5	1.731	2.598	12.5	20.7
1 12	9 3.98	+15 18.7	1.687	2.620	8.4	20.5
1 22	8 55.47	+16 21.8	1.669	2.642	3.9	20.3
2 1	8 46.10	+17 27.7	1.679	2.664	0.8	20.1
2 11	8 37.07	+18 30.0	1.719	2.686	5.3	20.5
2 21	8 29.42	+19 23.8	1.787	2.707	9.4	20.7
3 2	8 23.98	+20 6.2	1.879	2.728	13.0	21.0

54271 2000 JD_{39} 1 30.2 314.°79 5.°8/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.25	+26 52.3	1.410	2.226	17.9	18.5
1 2	9 13.91	+28 3.7	1.334	2.221	14.1	18.3
1 12	9 7.00	+29 21.4	1.278	2.217	10.0	18.0
1 22	8 57.16	+30 35.6	1.247	2.213	6.4	17.8
2 1	8 45.70	+31 35.0	1.241	2.209	6.3	17.8
2 11	8 34.44	+32 11.4	1.262	2.206	9.9	18.0
2 21	8 25.08	+32 22.1	1.306	2.202	14.2	18.2
3 2	8 18.91	+32 9.0	1.371	2.199	18.1	18.4

32749 1981 EA_9 1 30.2 108.°90 1.°7/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.81	+20 52.4	1.794	2.574	16.0	18.8
1 2	9 16.86	+21 13.6	1.727	2.597	12.5	18.6
1 12	9 8.12	+21 40.8	1.683	2.619	8.3	18.4
1 22	8 57.36	+22 8.8	1.666	2.640	3.9	18.2
2 1	8 45.71	+22 32.1	1.678	2.660	2.1	18.1
2 11	8 34.55	+22 46.5	1.719	2.680	6.1	18.4
2 21	8 25.07	+22 50.3	1.789	2.699	10.1	18.7
3 2	8 18.12	+22 43.6	1.883	2.717	13.6	18.9

500274 2012 MV_7 1 30.2 239.°08 1.°5/29.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.92	+19 25.0	2.176	2.959	13.5	21.8
1 2	9 9.88	+20 6.0	2.079	2.950	10.5	21.6
1 12	9 3.51	+20 55.3	2.005	2.941	7.1	21.4
1 22	8 55.33	+21 48.7	1.958	2.932	3.3	21.1
2 1	8 46.11	+22 40.7	1.941	2.923	1.9	21.0
2 11	8 36.92	+23 26.0	1.954	2.914	5.5	21.2
2 21	8 28.77	+24 1.1	1.995	2.904	9.3	21.4
3 2	8 22.53	+24 24.2	2.061	2.894	12.6	21.6

18324 1984 HA_2 1 30.2 296.°84 3.°4/ 1.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.50	+ 7 54.4	2.217	2.966	14.3	18.5
1 2	9 8.79	+ 7 33.0	2.093	2.936	11.7	18.3
1 12	9 2.85	+ 7 23.6	1.992	2.905	8.7	18.0
1 22	8 55.08	+ 7 26.5	1.916	2.875	5.4	17.7
2 1	8 46.16	+ 7 40.7	1.868	2.844	3.4	17.6
2 11	8 37.05	+ 8 3.9	1.850	2.813	5.4	17.6
2 21	8 28.76	+ 8 32.6	1.860	2.782	9.0	17.8
3 2	8 22.18	+ 9 3.0	1.895	2.751	12.6	17.9

426902 2013 WX_{70} 1 30.2 142.°19 2.°1/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.99	+22 29.5	2.417	3.199	12.3	21.1
1 2	9 9.57	+23 7.8	2.333	3.204	9.6	20.9
1 12	9 3.09	+23 50.6	2.273	3.209	6.4	20.7
1 22	8 55.05	+24 33.6	2.242	3.214	3.3	20.5
2 1	8 46.22	+25 12.0	2.240	3.218	2.5	20.5
2 11	8 37.54	+25 42.0	2.269	3.223	5.3	20.7
2 21	8 29.90	+26 1.3	2.325	3.227	8.5	20.9
3 2	8 24.02	+26 9.2	2.408	3.231	11.4	21.1

368586 2004 RG_{22} 1 30.2 155.°93 0.°9/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.89	+18 53.9	2.447	3.217	12.5	22.0
1 2	9 10.95	+19 17.8	2.360	3.224	9.7	21.8
1 12	9 3.95	+19 47.9	2.298	3.231	6.5	21.6
1 22	8 55.43	+20 20.7	2.263	3.237	3.0	21.4
2 1	8 46.15	+20 52.3	2.259	3.243	1.2	21.3
2 11	8 37.02	+21 19.0	2.286	3.248	4.7	21.6
2 21	8 28.93	+21 38.4	2.343	3.252	8.0	21.8
3 2	8 22.57	+21 49.4	2.425	3.256	11.0	22.0

256868 2008 DU_7 1 30.2 196.°06 0.°2/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.15	+15 39.9	2.021	2.797	14.6	21.3
1 2	9 10.92	+16 12.4	1.929	2.795	11.5	21.1
1 12	9 4.25	+16 56.3	1.860	2.793	7.8	20.8
1 22	8 55.69	+17 47.6	1.817	2.791	3.6	20.6
2 1	8 46.08	+18 41.3	1.803	2.788	0.9	20.3
2 11	8 36.55	+19 31.8	1.820	2.785	5.2	20.7
2 21	8 28.17	+20 14.8	1.864	2.781	9.3	20.9
3 2	8 21.82	+20 47.6	1.934	2.777	12.9	21.1

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
34363	2000 RT_{30}		1 30.2	284.°00	5.°8/ 2.2	18
	h m	° ′			°	m
12 23	9 13.46	+ 3 43.2	1.584	2.340	18.8	18.9
1 2	9 10.26	+ 3 12.8	1.489	2.330	15.7	18.7
1 12	9 4.20	+ 3 2.6	1.412	2.320	12.0	18.4
1 22	8 55.81	+ 3 14.3	1.358	2.309	8.2	18.2
2 1	8 46.04	+ 3 47.4	1.330	2.299	5.9	18.0
2 11	8 36.23	+ 4 37.9	1.328	2.289	7.4	18.1
2 21	8 27.71	+ 5 39.3	1.352	2.278	11.3	18.2
3 2	8 21.61	+ 6 44.2	1.399	2.268	15.4	18.5
69821	1998 RA_{65}		1 30.2	116.°80	0.°7/30.8	18
12 23	9 13.12	+13 48.6	2.209	2.978	13.7	19.8
1 2	9 8.99	+14 4.1	2.123	2.984	10.8	19.6
1 12	9 2.75	+14 29.9	2.060	2.990	7.4	19.4
1 22	8 54.91	+15 3.3	2.024	2.996	3.6	19.2
2 1	8 46.27	+15 40.9	2.017	3.002	0.9	19.0
2 11	8 37.78	+16 18.4	2.040	3.007	4.5	19.2
2 21	8 30.35	+16 52.2	2.092	3.013	8.2	19.5
3 2	8 24.70	+17 19.8	2.170	3.018	11.5	19.7
261189	2005 TY_{141}		1 30.2	44.°20	2.°3/ 1.1	18
12 23	9 9.21	+ 8 15.4	2.469	3.220	12.9	20.3
1 2	9 5.72	+ 8 25.5	2.380	3.225	10.4	20.1
1 12	9 0.43	+ 8 48.2	2.314	3.231	7.4	19.9
1 22	8 53.81	+ 9 22.2	2.275	3.237	4.3	19.7
2 1	8 46.51	+10 4.8	2.264	3.243	2.3	19.6
2 11	8 39.32	+10 52.2	2.284	3.250	4.2	19.7
2 21	8 32.99	+11 40.6	2.332	3.256	7.3	19.9
3 2	8 28.15	+12 26.4	2.407	3.263	10.2	20.1
503175	2015 GH_{43}		1 30.2	354.°01	0.°2/30.1	17
12 23	9 9.09	+15 18.9	1.898	2.689	14.9	20.7
1 2	9 6.34	+15 53.8	1.810	2.685	11.7	20.4
1 12	9 1.24	+16 41.0	1.744	2.682	7.9	20.2
1 22	8 54.31	+17 37.0	1.704	2.679	3.6	19.9
2 1	8 46.39	+18 36.2	1.692	2.677	0.9	19.7
2 11	8 38.56	+19 32.8	1.709	2.676	5.3	20.0
2 21	8 31.86	+20 21.9	1.753	2.675	9.4	20.3
3 2	8 27.15	+21 0.2	1.821	2.675	13.1	20.5
399326	1999 RA_{114}		1 30.2	135.°08	5.°4/ 2.9	18
12 23	9 15.14	+ 1 0.6	1.992	2.713	16.5	21.6
1 2	9 10.72	+ 0 49.2	1.908	2.725	13.8	21.4
1 12	9 3.99	+ 0 57.4	1.845	2.736	10.6	21.2
1 22	8 55.52	+ 1 25.8	1.805	2.746	7.4	21.0
2 1	8 46.16	+ 2 12.5	1.794	2.756	5.4	20.9
2 11	8 36.96	+ 3 13.4	1.811	2.766	6.4	21.0
2 21	8 28.92	+ 4 22.3	1.856	2.775	9.3	21.2
3 2	8 22.83	+ 5 33.1	1.927	2.783	12.4	21.4
60978	2000 KP_7		1 30.2	88.°40	5.°8/ 3.1	18
12 23	9 16.53	+ 0 30.3	2.044	2.758	16.4	19.0
1 2	9 11.53	− 0 1.6	1.976	2.785	13.7	18.9
1 12	9 4.35	− 0 15.1	1.928	2.812	10.6	18.7
1 22	8 55.61	− 0 9.4	1.905	2.839	7.6	18.6
2 1	8 46.16	+ 0 14.5	1.909	2.865	5.9	18.6
2 11	8 37.04	+ 0 53.2	1.942	2.890	6.6	18.6
2 21	8 29.14	+ 1 41.5	2.003	2.915	9.1	18.8
3 2	8 23.18	+ 2 34.3	2.090	2.940	11.8	19.1
424515	2008 EV_{32}		1 30.2	194.°60	0.°3/30.5	17
12 23	9 14.31	+13 45.3	2.296	3.060	13.4	22.0
1 2	9 9.96	+14 21.0	2.199	3.058	10.6	21.8
1 12	9 3.46	+15 8.3	2.126	3.055	7.2	21.6
1 22	8 55.30	+16 4.0	2.079	3.052	3.4	21.3
2 1	8 46.21	+17 3.6	2.063	3.048	0.7	21.1
2 11	8 37.16	+18 1.9	2.078	3.044	4.6	21.4
2 21	8 29.06	+18 54.7	2.122	3.039	8.4	21.6
3 2	8 22.73	+19 38.9	2.193	3.033	11.7	21.8
269811	1999 VN_{115}		1 30.2	191.°20	1.°1/29.5	18
12 23	9 13.87	+18 50.5	2.227	3.007	13.3	21.2
1 2	9 9.69	+19 22.3	2.136	3.006	10.4	21.0
1 12	9 3.30	+20 1.8	2.070	3.006	6.9	20.8
1 22	8 55.21	+20 45.0	2.030	3.005	3.2	20.5
2 1	8 46.23	+21 27.3	2.020	3.003	1.5	20.4
2 11	8 37.36	+22 4.0	2.040	3.002	5.1	20.7
2 21	8 29.54	+22 32.1	2.089	3.000	8.8	20.9
3 2	8 23.57	+22 50.0	2.163	2.999	12.0	21.1
13414	Grantham		1 30.3	151.°54	0.°1/30.3	18
12 23	9 14.18	+16 12.4	2.216	2.990	13.6	18.7
1 2	9 9.85	+16 28.7	2.128	2.993	10.6	18.5
1 12	9 3.35	+16 53.6	2.063	2.996	7.2	18.3
1 22	8 55.22	+17 24.2	2.025	2.999	3.3	18.0
2 1	8 46.24	+17 56.5	2.017	3.002	0.7	17.8
2 11	8 37.41	+18 26.6	2.039	3.004	4.7	18.1
2 21	8 29.64	+18 51.3	2.089	3.007	8.4	18.4
3 2	8 23.71	+19 8.9	2.165	3.009	11.7	18.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
263146	2007 VE_{207}		1 30.3	287.°48	3.°7/28.3	18
	h m	° ′			°	m
12 23	9 16.42	+23 45.2	1.596	2.401	16.6	21.1
1 2	9 12.91	+24 31.4	1.502	2.386	13.1	20.8
1 12	9 6.19	+25 25.5	1.430	2.370	9.0	20.6
1 22	8 56.81	+26 20.6	1.383	2.355	4.9	20.3
2 1	8 45.87	+27 8.1	1.363	2.340	4.2	20.2
2 11	8 34.91	+27 40.9	1.370	2.325	8.1	20.4
2 21	8 25.47	+27 55.4	1.403	2.309	12.6	20.6
3 2	8 18.81	+27 51.3	1.458	2.294	16.7	20.8
341347	2007 TW_{49}		1 30.3	148.°35	4.°5/ 2.9	18
12 23	9 11.13	+ 1 8.9	2.646	3.355	13.1	21.2
1 2	9 7.06	+ 0 54.0	2.553	3.361	11.0	21.1
1 12	9 1.27	+ 0 53.6	2.481	3.366	8.5	20.9
1 22	8 54.20	+ 1 8.2	2.435	3.371	6.1	20.7
2 1	8 46.47	+ 1 36.7	2.418	3.376	4.6	20.7
2 11	8 38.82	+ 2 16.6	2.430	3.381	5.3	20.7
2 21	8 31.97	+ 3 4.1	2.471	3.385	7.5	20.9
3 2	8 26.54	+ 3 55.1	2.539	3.389	10.0	21.0
400309	Ralfhofner		1 30.3	166.°68	1.°8/31.3	18
12 23	9 17.91	+11 48.0	2.014	2.773	15.2	22.2
1 2	9 12.93	+11 44.6	1.925	2.777	12.2	22.0
1 12	9 5.53	+11 52.9	1.858	2.781	8.5	21.8
1 22	8 56.27	+12 11.1	1.817	2.785	4.5	21.5
2 1	8 46.04	+12 36.3	1.805	2.788	1.9	21.3
2 11	8 35.96	+13 4.4	1.823	2.790	5.1	21.6
2 21	8 27.10	+13 31.9	1.870	2.791	9.0	21.8
3 2	8 20.30	+13 55.8	1.943	2.792	12.6	22.0
63707	2001 QX_{197}		1 30.3	61.°73	9.°0/ 5.1	18
12 23	9 12.77	− 5 44.0	1.820	2.519	18.6	18.9
1 2	9 9.12	− 6 41.4	1.742	2.529	16.2	18.7
1 12	9 3.05	− 7 15.3	1.682	2.539	13.4	18.5
1 22	8 55.14	− 7 22.4	1.644	2.549	10.8	18.4
2 1	8 46.28	− 7 1.4	1.630	2.559	9.2	18.3
2 11	8 37.58	− 6 14.9	1.642	2.570	9.4	18.3
2 21	8 30.11	− 5 9.0	1.679	2.580	11.2	18.5
3 2	8 24.70	− 3 51.4	1.740	2.591	13.7	18.7
161733	2006 ST_{44}		1 30.3	183.°04	7.°9/21.8	17
12 23	9 23.90	+49 15.9	3.190	3.928	10.5	21.0
1 2	9 17.49	+50 27.7	3.125	3.929	9.3	20.9
1 12	9 8.52	+51 29.4	3.084	3.929	8.3	20.8
1 22	8 57.62	+52 14.7	3.069	3.928	7.9	20.8
2 1	8 45.75	+52 38.3	3.081	3.927	8.3	20.8
2 11	8 34.12	+52 38.3	3.119	3.925	9.3	20.9
2 21	8 23.84	+52 15.4	3.181	3.923	10.6	21.0
3 2	8 15.78	+51 33.0	3.264	3.921	11.9	21.1
254533	2005 EF_{131}		1 30.3	224.°90	0.°2/30.1	18
12 23	9 17.87	+17 8.6	2.035	2.809	14.6	21.5
1 2	9 13.11	+17 21.5	1.934	2.799	11.5	21.3
1 12	9 5.80	+17 43.1	1.856	2.789	7.8	21.0
1 22	8 56.47	+18 10.2	1.805	2.779	3.6	20.7
2 1	8 45.99	+18 38.5	1.783	2.768	0.9	20.5
2 11	8 35.55	+19 3.6	1.791	2.756	5.3	20.8
2 21	8 26.26	+19 22.3	1.827	2.744	9.5	21.0
3 2	8 19.07	+19 32.8	1.889	2.731	13.2	21.2
119750	2001 YL_{64}		1 30.3	132.°96	3.°9/27.2	18
12 23	9 17.63	+27 5.5	2.321	3.105	12.7	20.3
1 2	9 12.56	+28 10.5	2.249	3.119	9.9	20.2
1 12	9 5.18	+29 17.7	2.201	3.132	6.9	20.0
1 22	8 56.07	+30 20.8	2.182	3.145	4.4	19.9
2 1	8 46.10	+31 13.6	2.192	3.157	4.3	19.9
2 11	8 36.35	+31 51.4	2.232	3.168	6.7	20.1
2 21	8 27.80	+32 12.7	2.301	3.179	9.6	20.3
3 2	8 21.25	+32 17.9	2.393	3.190	12.2	20.4
313176	2001 MH_{22}		1 30.3	184.°58	2.°5/31.6	18
12 23	9 18.18	+10 43.2	2.214	2.961	14.3	21.1
1 2	9 12.93	+10 19.1	2.117	2.962	11.6	20.9
1 12	9 5.43	+10 4.9	2.044	2.961	8.2	20.7
1 22	8 56.20	+10 0.0	1.997	2.961	4.7	20.5
2 1	8 46.07	+10 2.9	1.980	2.959	2.5	20.3
2 11	8 36.05	+10 11.0	1.994	2.958	5.0	20.5
2 21	8 27.12	+10 21.8	2.036	2.955	8.5	20.7
3 2	8 20.07	+10 32.7	2.105	2.952	11.8	20.9
373315	2012 JE_8		1 30.3	309.°19	0.°7/30.6	18
12 23	9 13.59	+14 39.5	1.826	2.609	15.7	21.4
1 2	9 9.96	+14 47.7	1.734	2.603	12.4	21.2
1 12	9 3.76	+15 7.5	1.664	2.597	8.5	21.0
1 22	8 55.54	+15 36.0	1.619	2.592	4.1	20.7
2 1	8 46.20	+16 9.4	1.601	2.586	0.9	20.4
2 11	8 36.95	+16 42.6	1.613	2.581	5.4	20.7
2 21	8 28.93	+17 11.5	1.651	2.575	9.8	21.0
3 2	8 23.09	+17 33.4	1.714	2.570	13.7	21.2

55415 2001 TA_{11} 1 30.3 181.°20 1.°0/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.89	+13 13.8	2.112	2.878	14.4	20.0
1 2	9 10.54	+13 26.5	2.020	2.879	11.4	19.8
1 12	9 3.92	+13 50.4	1.951	2.880	7.8	19.6
1 22	8 55.54	+14 23.1	1.908	2.880	3.9	19.4
2 1	8 46.22	+15 0.9	1.895	2.879	1.1	19.1
2 11	8 37.02	+15 39.3	1.911	2.878	4.8	19.4
2 21	8 28.90	+16 14.6	1.956	2.877	8.7	19.6
3 2	8 22.69	+16 43.8	2.027	2.876	12.2	19.9

278214 2007 EX_{42} 1 30.3 203.°11 2.°9/28.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.93	+25 22.2	2.483	3.262	12.1	21.6
1 2	9 11.94	+25 58.5	2.389	3.258	9.5	21.4
1 12	9 4.76	+26 37.4	2.320	3.253	6.5	21.2
1 22	8 55.90	+27 14.3	2.279	3.248	3.7	21.0
2 1	8 46.15	+27 44.3	2.269	3.242	3.2	21.0
2 11	8 36.51	+28 3.6	2.289	3.236	5.8	21.1
2 21	8 27.90	+28 10.6	2.337	3.229	8.9	21.3
3 2	8 21.12	+28 5.3	2.411	3.222	11.7	21.5

21768 1999 RL_{210} 1 30.3 183.°36 3.°0/ 1.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.98	+ 8 25.9	2.223	2.971	14.3	18.2
1 2	9 9.67	+ 8 10.5	2.129	2.971	11.6	18.0
1 12	9 3.24	+ 8 7.3	2.057	2.971	8.4	17.8
1 22	8 55.20	+ 8 15.8	2.011	2.971	5.1	17.6
2 1	8 46.31	+ 8 34.2	1.994	2.970	3.0	17.5
2 11	8 37.50	+ 8 59.7	2.006	2.970	5.0	17.6
2 21	8 29.71	+ 9 28.6	2.047	2.969	8.3	17.8
3 2	8 23.67	+ 9 57.5	2.114	2.968	11.5	18.0

415946 2001 WD_{96} 1 30.3 108.°96 1.°8/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.59	+21 12.0	2.350	3.122	12.9	22.5
1 2	9 13.01	+21 55.2	2.283	3.149	10.0	22.3
1 12	9 5.30	+22 43.3	2.241	3.175	6.6	22.2
1 22	8 56.06	+23 31.5	2.228	3.200	3.2	22.0
2 1	8 46.15	+24 15.0	2.245	3.225	2.2	21.9
2 11	8 36.55	+24 49.6	2.293	3.249	5.2	22.2
2 21	8 28.16	+25 13.2	2.371	3.272	8.4	22.4
3 2	8 21.66	+25 25.4	2.474	3.294	11.2	22.7

189468 1999 RT_{223} 1 30.3 158.°38 2.°1/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.06	+10 32.7	2.446	3.193	13.1	20.9
1 2	9 10.26	+10 24.5	2.354	3.198	10.5	20.8
1 12	9 3.50	+10 26.4	2.285	3.204	7.5	20.6
1 22	8 55.27	+10 37.3	2.244	3.209	4.2	20.4
2 1	8 46.30	+10 55.1	2.233	3.213	2.1	20.2
2 11	8 37.46	+11 16.9	2.252	3.217	4.4	20.4
2 21	8 29.58	+11 39.8	2.300	3.220	7.6	20.6
3 2	8 23.34	+12 1.3	2.376	3.223	10.7	20.8

110777 2001 UZ_{29} 1 30.3 212.°16 0.°4/30.6 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.15	+13 48.6	2.718	3.479	11.6	20.2
1 2	9 7.17	+14 18.8	2.617	3.474	9.2	20.0
1 12	9 1.43	+14 58.4	2.540	3.469	6.2	19.8
1 22	8 54.33	+15 45.0	2.492	3.464	3.0	19.6
2 1	8 46.50	+16 35.1	2.473	3.458	0.6	19.4
2 11	8 38.68	+17 24.8	2.486	3.452	3.9	19.6
2 21	8 31.64	+18 10.6	2.528	3.445	7.2	19.8
3 2	8 26.01	+18 49.9	2.598	3.439	10.1	20.0

122126 2000 JG_{19} 1 30.3 192.°03 0.°2/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 20.13	+16 18.0	1.963	2.732	15.2	20.8
1 2	9 14.86	+16 24.4	1.869	2.731	12.0	20.6
1 12	9 6.96	+16 39.9	1.798	2.729	8.2	20.3
1 22	8 57.00	+17 1.3	1.753	2.726	3.9	20.1
2 1	8 45.93	+17 24.6	1.738	2.722	0.8	19.8
2 11	8 34.97	+17 45.7	1.753	2.718	5.3	20.1
2 21	8 25.30	+18 1.3	1.796	2.713	9.6	20.4
3 2	8 17.86	+18 9.9	1.865	2.707	13.3	20.6

4895 Embla 1 30.3 77.°62 5.°0/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 23.03	+26 42.2	1.484	2.286	17.8	17.1
1 2	9 17.72	+27 44.4	1.433	2.313	13.9	16.9
1 12	9 9.04	+28 49.3	1.404	2.339	9.6	16.7
1 22	8 57.92	+29 47.2	1.399	2.366	5.8	16.6
2 1	8 45.79	+30 29.5	1.423	2.392	5.4	16.6
2 11	8 34.36	+30 50.8	1.473	2.418	8.6	16.8
2 21	8 25.05	+30 50.8	1.549	2.443	12.4	17.1
3 2	8 18.80	+30 32.3	1.647	2.468	15.8	17.4

465830 2010 HC_{79} 1 30.3 194.°71 3.°2/ 2.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.51	+ 4 7.3	3.154	3.869	11.1	22.0
1 2	9 6.35	+ 4 1.3	3.050	3.866	9.1	21.9
1 12	9 0.71	+ 4 6.4	2.968	3.863	6.9	21.7
1 22	8 53.96	+ 4 22.5	2.914	3.860	4.6	21.6
2 1	8 46.61	+ 4 48.5	2.889	3.856	3.2	21.5
2 11	8 39.30	+ 5 22.0	2.895	3.852	4.2	21.5
2 21	8 32.63	+ 6 0.3	2.932	3.847	6.4	21.7
3 2	8 27.12	+ 6 40.3	2.996	3.842	8.7	21.8

265343 2004 QJ_{12} 1 30.3 143.°87 3.°5/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.43	+24 36.5	2.207	2.995	13.2	20.9
1 2	9 11.03	+25 45.5	2.128	3.002	10.2	20.7
1 12	9 4.28	+26 59.4	2.073	3.008	7.0	20.5
1 22	8 55.73	+28 12.0	2.046	3.014	4.1	20.3
2 1	8 46.23	+29 16.4	2.049	3.020	3.9	20.3
2 11	8 36.87	+30 7.2	2.082	3.025	6.6	20.5
2 21	8 28.66	+30 41.7	2.143	3.031	9.8	20.7
3 2	8 22.45	+30 59.7	2.228	3.035	12.7	20.9

248673 2006 JT_{44} 1 30.3 224.°60 5.°4/26.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 20.07	+29 45.2	2.124	2.911	13.7	21.9
1 2	9 15.11	+31 0.9	2.030	2.899	10.9	21.7
1 12	9 7.34	+32 19.4	1.960	2.887	7.9	21.5
1 22	8 57.29	+33 32.8	1.917	2.874	5.7	21.4
2 1	8 45.89	+34 32.9	1.904	2.860	5.9	21.3
2 11	8 34.45	+35 13.6	1.920	2.845	8.4	21.5
2 21	8 24.26	+35 32.3	1.962	2.830	11.6	21.6
3 2	8 16.40	+35 30.3	2.028	2.813	14.5	21.8

15644 4157 *P–L* 1 30.3 356.°37 0.°2/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.61	+16 51.2	1.098	1.924	21.2	18.0
1 2	9 10.73	+16 44.8	1.026	1.919	16.8	17.7
1 12	9 5.10	+16 52.2	0.971	1.916	11.5	17.4
1 22	8 56.42	+17 9.8	0.938	1.914	5.4	17.0
2 1	8 46.08	+17 31.6	0.928	1.913	1.1	16.7
2 11	8 36.03	+17 51.2	0.942	1.913	7.5	17.1
2 21	8 28.04	+18 3.5	0.979	1.915	13.4	17.4
3 2	8 23.43	+18 6.1	1.035	1.917	18.5	17.7

207007 2004 TE_{277} 1 30.3 33.°88 3.°0/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.60	+21 21.6	1.234	2.055	19.6	20.7
1 2	9 12.59	+22 3.7	1.173	2.065	15.3	20.5
1 12	9 6.01	+22 55.8	1.132	2.077	10.2	20.2
1 22	8 56.69	+23 50.1	1.114	2.089	5.1	20.0
2 1	8 46.05	+24 37.4	1.121	2.102	3.5	19.9
2 11	8 35.91	+25 10.2	1.154	2.115	8.1	20.2
2 21	8 27.86	+25 25.2	1.210	2.129	13.0	20.5
3 2	8 22.98	+25 22.6	1.287	2.144	17.3	20.8

79472 Chiorny 1 30.3 52.°31 13.°1/20.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.42	+31 10.7	1.011	1.850	21.6	17.2
1 2	9 16.82	+35 24.1	0.963	1.858	17.6	17.0
1 12	9 10.29	+39 46.4	0.939	1.866	14.2	16.8
1 22	8 59.27	+43 48.9	0.938	1.874	13.2	16.8
2 1	8 45.42	+47 3.6	0.963	1.883	15.0	16.9
2 11	8 31.59	+49 14.6	1.010	1.892	18.4	17.2
2 21	8 20.65	+50 22.0	1.075	1.901	21.9	17.4
3 2	8 14.59	+50 36.5	1.154	1.911	24.9	17.7

41697 2000 UJ_{46} 1 30.3 352.°43 2.°4/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.08	+20 50.0	1.290	2.110	19.0	18.7
1 2	9 11.47	+21 16.5	1.214	2.105	14.9	18.5
1 12	9 5.39	+21 53.2	1.157	2.102	10.1	18.2
1 22	8 56.49	+22 33.9	1.123	2.099	4.8	17.9
2 1	8 46.08	+23 10.7	1.115	2.097	2.9	17.7
2 11	8 35.91	+23 36.2	1.131	2.096	7.8	18.0
2 21	8 27.61	+23 46.8	1.172	2.095	13.0	18.3
3 2	8 22.41	+23 41.8	1.234	2.096	17.5	18.6

247836 2003 SA_{258} 1 30.3 239.°48 1.°7/29.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 20.83	+21 23.1	2.011	2.789	14.6	21.6
1 2	9 15.61	+21 38.9	1.905	2.773	11.5	21.3
1 12	9 7.63	+22 0.4	1.822	2.757	7.8	21.1
1 22	8 57.41	+22 23.1	1.766	2.739	3.8	20.8
2 1	8 45.90	+22 42.0	1.740	2.722	2.1	20.6
2 11	8 34.36	+22 52.8	1.743	2.703	6.0	20.8
2 21	8 24.06	+22 53.0	1.775	2.684	10.2	21.0
3 2	8 16.04	+22 42.5	1.832	2.664	14.0	21.2

68757 2002 EH_{86} 1 30.3 209.°88 0.°4/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.61	+14 24.0	2.499	3.261	12.5	20.3
1 2	9 9.26	+14 44.2	2.398	3.255	9.9	20.1
1 12	9 2.93	+15 13.7	2.320	3.249	6.7	19.9
1 22	8 55.09	+15 50.0	2.271	3.243	3.2	19.7
2 1	8 46.41	+16 29.6	2.251	3.236	0.7	19.4
2 11	8 37.76	+17 8.8	2.263	3.229	4.3	19.7
2 21	8 29.98	+17 44.0	2.304	3.221	7.8	19.9
3 2	8 23.80	+18 13.1	2.371	3.213	10.9	20.1

154357 2002 XO_{44} 1 30.3 124.°95 0.°9/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 20.25	+15 10.0	2.115	2.876	14.5	20.1
1 2	9 14.50	+15 1.4	2.036	2.892	11.4	20.0
1 12	9 6.43	+15 0.8	1.980	2.908	7.8	19.8
1 22	8 56.66	+15 6.0	1.951	2.923	3.8	19.5
2 1	8 46.10	+15 14.2	1.953	2.937	1.0	19.3
2 11	8 35.85	+15 22.3	1.985	2.951	4.8	19.6
2 21	8 26.89	+15 28.1	2.046	2.964	8.6	19.9
3 2	8 19.98	+15 30.2	2.133	2.976	11.9	20.1

361665 2007 TH_{410} 1 30.3 58.°68 1.°4/29.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.84	+17 59.7	1.418	2.221	18.4	20.7
1 2	9 12.96	+18 38.6	1.358	2.240	14.3	20.5
1 12	9 5.94	+19 29.5	1.319	2.259	9.6	20.3
1 22	8 56.57	+20 26.1	1.303	2.279	4.4	20.0
2 1	8 46.12	+21 20.5	1.315	2.299	1.9	19.9
2 11	8 36.16	+22 5.7	1.354	2.319	6.7	20.3
2 21	8 28.04	+22 37.4	1.419	2.339	11.4	20.6
3 2	8 22.71	+22 54.6	1.506	2.359	15.4	20.9

277826 2006 HC_{10} 1 30.3 72.°71 3.°5/ 1.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.13	+ 4 53.4	2.087	2.831	15.2	20.7
1 2	9 7.55	+ 5 6.0	2.004	2.841	12.4	20.5
1 12	9 1.87	+ 5 36.1	1.942	2.851	9.1	20.3
1 22	8 54.60	+ 6 22.5	1.905	2.861	5.7	20.1
2 1	8 46.53	+ 7 22.2	1.897	2.872	3.5	20.0
2 11	8 38.61	+ 8 30.0	1.917	2.882	5.1	20.1
2 21	8 31.73	+ 9 40.3	1.967	2.892	8.4	20.4
3 2	8 26.63	+10 47.8	2.042	2.902	11.6	20.6

296035 2008 YV_{167} 1 30.3 71.°53 4.°2/ 1.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.62	+ 7 28.1	1.491	2.260	19.2	20.8
1 2	9 12.60	+ 7 3.8	1.419	2.273	15.6	20.6
1 12	9 5.64	+ 6 58.0	1.367	2.286	11.4	20.4
1 22	8 56.44	+ 7 10.4	1.338	2.299	7.0	20.2
2 1	8 46.15	+ 7 38.5	1.336	2.312	4.2	20.0
2 11	8 36.18	+ 8 17.2	1.360	2.325	6.6	20.2
2 21	8 27.84	+ 9 0.6	1.410	2.338	10.8	20.5
3 2	8 22.09	+ 9 43.1	1.484	2.352	14.7	20.7

92424 2000 JO_{50} 1 30.3 235.°78 1.°2/29.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 19.38	+19 2.9	1.813	2.596	15.8	20.2
1 2	9 14.73	+19 23.9	1.713	2.584	12.5	20.0
1 12	9 7.17	+19 53.9	1.635	2.571	8.5	19.7
1 22	8 57.25	+20 28.4	1.583	2.557	3.9	19.4
2 1	8 45.95	+21 1.9	1.560	2.543	1.6	19.2
2 11	8 34.64	+21 29.0	1.566	2.529	6.2	19.5
2 21	8 24.65	+21 46.0	1.599	2.513	10.8	19.7
3 2	8 17.09	+21 51.8	1.657	2.498	14.8	19.9

358102 2006 KF_{63} 1 30.3 329.°88 5.°4/27.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.63	+26 0.4	1.294	2.118	18.6	20.5
1 2	9 12.23	+26 58.2	1.213	2.107	14.8	20.3
1 12	9 6.14	+28 3.4	1.153	2.096	10.3	20.0
1 22	8 56.96	+29 6.6	1.116	2.086	6.3	19.7
2 1	8 46.01	+29 56.9	1.104	2.076	6.0	19.7
2 11	8 35.18	+30 25.6	1.116	2.067	9.9	19.9
2 21	8 26.30	+30 29.4	1.152	2.059	14.6	20.1
3 2	8 20.73	+30 10.0	1.207	2.052	18.9	20.3

354977 2006 HS_{120} 1 30.3 208.°24 1.°2/31.1 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.44	+12 9.6	2.185	2.942	14.2	22.5
1 2	9 11.79	+12 28.2	2.083	2.936	11.3	22.3
1 12	9 4.83	+12 59.3	2.003	2.928	7.9	22.1
1 22	8 56.05	+13 40.2	1.951	2.921	4.0	21.8
2 1	8 46.23	+14 27.4	1.928	2.912	1.2	21.6
2 11	8 36.41	+15 16.1	1.936	2.902	4.8	21.9
2 21	8 27.59	+16 1.8	1.973	2.892	8.7	22.1
3 2	8 20.65	+16 41.4	2.036	2.881	12.3	22.3

335630 2006 JM_3 1 30.3 259.°28 0.°8/29.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.44	+18 16.0	2.216	2.996	13.4	21.2
1 2	9 9.44	+18 39.6	2.119	2.989	10.5	21.0
1 12	9 3.23	+19 11.0	2.046	2.981	7.0	20.7
1 22	8 55.28	+19 46.8	2.000	2.974	3.2	20.5
2 1	8 46.40	+20 22.7	1.983	2.967	1.2	20.3
2 11	8 37.57	+20 54.3	1.996	2.959	5.0	20.6
2 21	8 29.77	+21 18.5	2.037	2.952	8.8	20.8
3 2	8 23.80	+21 33.6	2.104	2.944	12.1	21.0

140434 2001 TB_{103} 1 30.3 151.°56 1.°3/31.2 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.16	+13 7.9	2.760	3.511	11.7	20.6
1 2	9 9.34	+12 58.7	2.667	3.516	9.3	20.5
1 12	9 2.79	+12 56.9	2.599	3.522	6.4	20.3
1 22	8 54.96	+13 1.1	2.559	3.527	3.4	20.1
2 1	8 46.49	+13 9.4	2.549	3.532	1.3	20.0
2 11	8 38.16	+13 19.5	2.571	3.536	3.8	20.1
2 21	8 30.68	+13 29.4	2.622	3.541	6.9	20.4
3 2	8 24.65	+13 37.4	2.701	3.545	9.6	20.5

328746 2009 UM_{36} 1 30.3 192.°01 2.°1/31.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.60	+ 9 45.3	2.226	2.980	14.1	21.5
1 2	9 9.44	+ 9 50.8	2.130	2.979	11.3	21.3
1 12	9 3.16	+10 9.0	2.057	2.977	8.0	21.1
1 22	8 55.23	+10 38.5	2.011	2.976	4.5	20.9
2 1	8 46.43	+11 16.4	1.993	2.974	2.1	20.7
2 11	8 37.69	+11 58.8	2.005	2.972	4.7	20.9
2 21	8 29.93	+12 41.6	2.046	2.969	8.3	21.1
3 2	8 23.93	+13 21.1	2.114	2.966	11.6	21.3

446856 2001 UY_{96} 1 30.3 92.°65 2.°3/29.0 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 20.05	+20 16.1	1.537	2.332	17.6	21.5
1 2	9 15.31	+21 3.6	1.474	2.352	13.7	21.3
1 12	9 7.46	+22 0.5	1.432	2.371	9.1	21.1
1 22	8 57.28	+22 59.6	1.416	2.390	4.4	20.8
2 1	8 46.02	+23 53.0	1.428	2.409	2.8	20.8
2 11	8 35.22	+24 34.1	1.468	2.427	7.0	21.1
2 21	8 26.24	+24 59.6	1.534	2.445	11.4	21.4
3 2	8 20.04	+25 9.6	1.623	2.463	15.1	21.6

152484 2005 WX_{59} 1 30.3 133.°32 0.°3/30.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.19	+12 28.2	2.091	2.859	14.4	20.1
1 2	9 9.28	+13 21.3	2.005	2.865	11.4	19.9
1 12	9 3.12	+14 28.9	1.942	2.872	7.7	19.7
1 22	8 55.24	+15 46.9	1.906	2.878	3.7	19.4
2 1	8 46.43	+17 9.5	1.899	2.884	0.7	19.2
2 11	8 37.73	+18 30.1	1.924	2.890	4.9	19.5
2 21	8 30.09	+19 43.1	1.977	2.896	8.8	19.8
3 2	8 24.33	+20 44.7	2.056	2.901	12.2	20.0

231812 2000 GV_{25} 1 30.3 232.°94 0.°5/30.6 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.49	+14 37.0	2.445	3.211	12.6	20.8
1 2	9 8.44	+14 52.9	2.345	3.205	10.0	20.6
1 12	9 2.43	+15 18.0	2.269	3.199	6.8	20.4
1 22	8 54.89	+15 49.7	2.220	3.192	3.3	20.2
2 1	8 46.52	+16 24.8	2.201	3.185	0.7	20.0
2 11	8 38.20	+16 59.6	2.212	3.178	4.3	20.2
2 21	8 30.75	+17 30.8	2.252	3.171	7.8	20.4
3 2	8 24.92	+17 56.1	2.319	3.164	11.0	20.6

298349 2003 JW_{10} 1 30.3 332.°91 3.°1/28.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.14	+20 19.3	1.355	2.170	18.5	20.5
1 2	9 11.49	+21 21.8	1.276	2.165	14.5	20.2
1 12	9 5.45	+22 38.1	1.217	2.160	9.8	19.9
1 22	8 56.60	+24 0.4	1.182	2.156	4.9	19.6
2 1	8 46.16	+25 18.3	1.173	2.152	3.7	19.6
2 11	8 35.82	+26 22.0	1.190	2.149	8.3	19.8
2 21	8 27.24	+27 5.6	1.231	2.146	13.3	20.1
3 2	8 21.66	+27 27.7	1.294	2.143	17.6	20.3

385926 2006 TE_{116} 1 30.3 210.°03 0.°4/29.9 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.13	+16 28.9	2.704	3.473	11.5	21.8
1 2	9 7.21	+17 4.5	2.607	3.470	9.0	21.6
1 12	9 1.51	+17 48.3	2.534	3.466	6.0	21.4
1 22	8 54.45	+18 37.1	2.489	3.463	2.8	21.2
2 1	8 46.64	+19 27.1	2.474	3.458	0.8	21.0
2 11	8 38.88	+20 14.3	2.491	3.454	4.2	21.2
2 21	8 31.90	+20 55.5	2.537	3.450	7.3	21.4
3 2	8 26.37	+21 28.6	2.609	3.445	10.2	21.6

90449 Brucestephenson 1 30.3 299.°10 9.°8/22.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 21.74	+44 37.9	2.160	2.934	13.8	19.3
1 2	9 17.03	+45 59.0	2.074	2.913	12.0	19.1
1 12	9 8.97	+47 12.0	2.011	2.891	10.4	19.0
1 22	8 58.18	+48 7.0	1.972	2.869	9.8	18.9
2 1	8 45.84	+48 35.4	1.959	2.847	10.3	18.9
2 11	8 33.61	+48 32.6	1.971	2.826	12.0	19.0
2 21	8 23.06	+47 59.1	2.005	2.804	14.1	19.1
3 2	8 15.42	+46 59.4	2.060	2.783	16.3	19.2

493890 2015 XL_{170} 1 30.3 75.°13 1.°3/29.6 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 19.49	+18 30.8	1.485	2.280	18.1	21.8
1 2	9 14.87	+19 1.4	1.424	2.302	14.1	21.6
1 12	9 7.15	+19 42.4	1.385	2.324	9.4	21.4
1 22	8 57.14	+20 27.9	1.370	2.345	4.3	21.1
2 1	8 46.12	+21 10.8	1.383	2.367	1.8	21.0
2 11	8 35.61	+21 45.0	1.424	2.388	6.5	21.4
2 21	8 26.96	+22 7.3	1.491	2.409	11.1	21.7
3 2	8 21.08	+22 16.7	1.581	2.430	15.0	22.0

53975 2000 GA_{68} 1 30.3 146.°59 2.°1/28.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.20	+23 30.1	2.831	3.606	10.9	20.0
1 2	9 9.47	+24 9.1	2.748	3.615	8.4	19.9
1 12	9 2.93	+24 51.1	2.690	3.624	5.7	19.7
1 22	8 55.06	+25 32.4	2.662	3.632	3.0	19.5
2 1	8 46.54	+26 8.9	2.664	3.640	2.4	19.5
2 11	8 38.16	+26 37.3	2.697	3.647	4.8	19.7
2 21	8 30.66	+26 55.7	2.759	3.654	7.6	19.9
3 2	8 24.69	+27 3.7	2.847	3.661	10.1	20.0

367938 2012 DD_1 1 30.3 57.°77 0.°7/30.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.84	+14 18.5	1.672	2.457	16.8	21.3
1 2	9 11.08	+14 32.3	1.593	2.463	13.3	21.0
1 12	9 4.59	+14 59.0	1.536	2.470	9.1	20.8
1 22	8 56.00	+15 35.4	1.503	2.476	4.4	20.5
2 1	8 46.34	+16 16.6	1.498	2.483	0.9	20.3
2 11	8 36.91	+16 56.9	1.521	2.489	5.6	20.6
2 21	8 28.90	+17 31.7	1.571	2.496	10.1	20.9
3 2	8 23.26	+17 58.1	1.645	2.503	14.0	21.2

437789 2015 CU_{39} 1 30.3 228.°02 4.°3/ 3.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 9.36	+ 0 57.0	2.561	3.275	13.4	20.8
1 2	9 5.88	+ 1 3.0	2.460	3.273	11.2	20.6
1 12	9 0.64	+ 1 25.6	2.381	3.270	8.6	20.4
1 22	8 54.06	+ 2 4.8	2.327	3.268	6.0	20.3
2 1	8 46.74	+ 2 58.7	2.302	3.265	4.3	20.2
2 11	8 39.46	+ 4 4.0	2.307	3.263	5.1	20.2
2 21	8 32.95	+ 5 15.8	2.341	3.260	7.6	20.4
3 2	8 27.85	+ 6 29.0	2.401	3.257	10.3	20.5

419050 2009 RJ_{43} 1 30.3 8.°73 5.°6/ 2.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.27	+ 3 47.8	1.643	2.400	18.2	20.7
1 2	9 8.32	+ 3 14.9	1.560	2.401	15.1	20.5
1 12	9 2.76	+ 3 1.3	1.496	2.403	11.5	20.3
1 22	8 55.18	+ 3 8.5	1.455	2.405	7.9	20.1
2 1	8 46.51	+ 3 35.3	1.440	2.408	5.7	20.0
2 11	8 37.98	+ 4 17.9	1.451	2.411	7.0	20.0
2 21	8 30.75	+ 5 10.3	1.489	2.415	10.4	20.2
3 2	8 25.74	+ 6 6.1	1.549	2.420	14.0	20.5

429301 2010 DC_{14} 1 30.3 253.°57 5.°3/ 3.4 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 10.40	− 0 46.6	2.648	3.349	13.3	21.7
1 2	9 6.67	− 1 9.9	2.539	3.338	11.3	21.5
1 12	9 1.18	− 1 18.2	2.452	3.327	9.0	21.4
1 22	8 54.32	− 1 10.2	2.389	3.315	6.8	21.2
2 1	8 46.69	− 0 46.3	2.354	3.304	5.4	21.1
2 11	8 39.04	− 0 8.3	2.348	3.292	5.9	21.1
2 21	8 32.11	+ 0 40.0	2.371	3.280	8.0	21.2
3 2	8 26.55	+ 1 34.4	2.420	3.268	10.4	21.4

241489 2009 BV_{125} 1 30.3 255.°72 0.°2/30.5 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.72	+15 16.4	2.435	3.205	12.6	21.3
1 2	9 7.86	+15 34.4	2.338	3.201	9.9	21.1
1 12	9 2.04	+16 1.3	2.265	3.196	6.7	20.9
1 22	8 54.73	+16 34.3	2.219	3.192	3.2	20.7
2 1	8 46.61	+17 10.1	2.203	3.188	0.6	20.4
2 11	8 38.56	+17 44.8	2.217	3.183	4.3	20.7
2 21	8 31.40	+18 15.4	2.260	3.179	7.8	20.9
3 2	8 25.84	+18 39.6	2.329	3.174	10.9	21.1

44712 1999 TJ_5 1 30.3 116.°85 1.°7/29.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 22.59	+19 53.4	1.571	2.359	17.6	19.2
1 2	9 17.26	+20 20.1	1.502	2.376	13.7	19.0
1 12	9 8.78	+20 55.4	1.455	2.391	9.2	18.7
1 22	8 57.93	+21 33.4	1.432	2.407	4.3	18.5
2 1	8 45.97	+22 7.4	1.438	2.421	2.1	18.4
2 11	8 34.45	+22 31.8	1.473	2.435	6.6	18.7
2 21	8 24.76	+22 44.1	1.534	2.449	11.2	19.0
3 2	8 17.89	+22 43.9	1.619	2.461	15.1	19.2

269616 2010 EO_{111} 1 30.3 208.°18 0.°5/30.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.17	+13 49.2	1.893	2.664	15.6	21.2
1 2	9 12.76	+14 13.6	1.797	2.659	12.4	20.9
1 12	9 5.72	+14 51.2	1.722	2.653	8.5	20.7
1 22	8 56.57	+15 38.9	1.674	2.647	4.1	20.4
2 1	8 46.22	+16 31.6	1.655	2.640	0.8	20.1
2 11	8 35.89	+17 23.6	1.665	2.632	5.4	20.5
2 21	8 26.77	+18 9.9	1.704	2.624	9.8	20.7
3 2	8 19.84	+18 47.1	1.767	2.615	13.7	20.9

77121 2001 DD_{88} 1 30.3 77.°01 2.°7/29.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 21.48	+24 8.9	1.638	2.433	16.7	19.0
1 2	9 16.39	+24 18.1	1.563	2.440	13.1	18.8
1 12	9 8.21	+24 30.4	1.509	2.446	8.9	18.5
1 22	8 57.67	+24 40.4	1.481	2.453	4.5	18.3
2 1	8 46.03	+24 42.4	1.480	2.460	3.0	18.2
2 11	8 34.80	+24 32.9	1.508	2.467	6.9	18.5
2 21	8 25.35	+24 11.2	1.562	2.474	11.2	18.7
3 2	8 18.66	+23 38.7	1.640	2.481	15.0	19.0

362106 2009 CK_{25} 1 30.3 314.°17 2.°4/29.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.34	+21 42.7	1.527	2.330	17.3	21.7
1 2	9 13.57	+22 7.7	1.443	2.326	13.6	21.4
1 12	9 6.60	+22 40.4	1.381	2.321	9.2	21.1
1 22	8 57.06	+23 15.0	1.342	2.316	4.5	20.9
2 1	8 46.13	+23 44.7	1.331	2.312	2.8	20.7
2 11	8 35.38	+24 3.5	1.347	2.308	7.2	21.0
2 21	8 26.29	+24 8.5	1.388	2.304	11.9	21.2
3 2	8 20.00	+23 59.6	1.452	2.300	16.1	21.5

461409 2001 TK_{25} 1 30.3 52.°37 6.°6/27.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 23.21	+32 57.2	1.571	2.372	17.0	20.9
1 2	9 17.91	+33 39.1	1.516	2.391	13.5	20.7
1 12	9 9.23	+34 16.7	1.482	2.409	9.9	20.5
1 22	8 58.09	+34 41.3	1.473	2.429	7.1	20.4
2 1	8 45.97	+34 45.5	1.490	2.448	6.9	20.4
2 11	8 34.59	+34 26.3	1.535	2.468	9.5	20.6
2 21	8 25.36	+33 45.8	1.604	2.488	12.8	20.9
3 2	8 19.21	+32 48.5	1.696	2.508	15.8	21.1

323097 2002 VA_{114} 1 30.3 81.°85 6.°7/ 3.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.76	− 0 49.2	1.842	2.557	17.9	21.3
1 2	9 12.02	− 1 27.4	1.775	2.583	15.0	21.1
1 12	9 4.90	− 1 44.6	1.728	2.609	11.8	21.0
1 22	8 56.04	− 1 39.2	1.705	2.634	8.7	20.9
2 1	8 46.39	− 1 12.3	1.708	2.660	6.8	20.8
2 11	8 37.08	− 0 27.6	1.739	2.685	7.4	20.9
2 21	8 29.12	+ 0 29.0	1.797	2.709	9.9	21.1
3 2	8 23.28	+ 1 31.0	1.879	2.733	12.8	21.3

162680 2000 TY_{12} 1 30.3 206.°39 1.°5/31.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.10	+12 13.0	1.914	2.679	15.7	21.2
1 2	9 12.63	+12 21.4	1.817	2.675	12.5	21.0
1 12	9 5.59	+12 42.8	1.743	2.670	8.8	20.7
1 22	8 56.51	+13 15.2	1.695	2.664	4.5	20.5
2 1	8 46.27	+13 54.6	1.675	2.658	1.5	20.2
2 11	8 36.08	+14 36.2	1.684	2.652	5.3	20.5
2 21	8 27.08	+15 15.4	1.722	2.645	9.6	20.7
3 2	8 20.23	+15 48.8	1.785	2.637	13.4	20.9

102400 1999 TW_{169} 1 30.3 152.°25 0.°2/30.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.42	+16 38.5	2.106	2.875	14.3	21.2
1 2	9 13.29	+16 59.3	2.021	2.884	11.2	21.0
1 12	9 5.79	+17 29.0	1.960	2.892	7.6	20.8
1 22	8 56.49	+18 3.9	1.926	2.900	3.5	20.6
2 1	8 46.30	+18 39.7	1.922	2.907	0.8	20.4
2 11	8 36.29	+19 11.8	1.949	2.913	5.0	20.7
2 21	8 27.50	+19 37.2	2.004	2.919	8.9	20.9
3 2	8 20.75	+19 54.2	2.085	2.924	12.3	21.2

165258 2000 SO_{208} 1 30.3 203.°18 1.°6/29.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.73	+19 41.0	1.854	2.638	15.4	21.0
1 2	9 14.08	+20 11.6	1.763	2.634	12.1	20.8
1 12	9 6.65	+20 50.8	1.694	2.631	8.2	20.5
1 22	8 57.02	+21 33.7	1.652	2.626	3.9	20.2
2 1	8 46.18	+22 14.3	1.639	2.621	2.0	20.1
2 11	8 35.43	+22 47.1	1.655	2.616	6.1	20.4
2 21	8 26.03	+23 8.7	1.698	2.610	10.4	20.6
3 2	8 18.99	+23 18.0	1.766	2.603	14.2	20.8

284981 2010 GT_{119} 1 30.3 189.°69 0.°6/29.8 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.23	+18 3.1	3.015	3.780	10.5	22.1
1 2	9 7.86	+18 31.3	2.918	3.779	8.2	21.9
1 12	9 1.84	+19 5.4	2.845	3.777	5.5	21.7
1 22	8 54.59	+19 42.7	2.802	3.775	2.5	21.5
2 1	8 46.69	+20 19.8	2.789	3.773	0.9	21.4
2 11	8 38.85	+20 53.6	2.808	3.770	3.9	21.6
2 21	8 31.74	+21 21.7	2.857	3.766	6.8	21.8
3 2	8 25.95	+21 42.6	2.933	3.763	9.4	21.9

511243 2014 BS_{32} 1 30.3 260.°74 7.°6/28.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 35.58	+30 0.3	0.951	1.770	24.2	21.0
1 2	9 31.31	+30 28.1	0.860	1.747	19.9	20.6
1 12	9 20.95	+30 58.0	0.786	1.723	14.6	20.2
1 22	9 4.73	+31 15.5	0.731	1.698	9.3	19.8
2 1	8 44.46	+31 2.6	0.699	1.672	8.1	19.6
2 11	8 23.68	+30 8.0	0.690	1.644	13.5	19.8
2 21	8 6.11	+28 34.3	0.702	1.616	20.4	20.0
3 2	7 54.35	+26 34.8	0.732	1.587	26.9	20.2

260053 2004 HL_9 1 30.3 237.°92 5.°0/ 3.3 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.10	− 0 34.2	2.902	3.596	12.4	21.5
1 2	9 7.05	− 1 1.7	2.790	3.584	10.5	21.4
1 12	9 1.36	− 1 15.8	2.700	3.572	8.4	21.2
1 22	8 54.40	− 1 15.6	2.635	3.560	6.3	21.0
2 1	8 46.73	− 1 0.9	2.599	3.547	5.1	20.9
2 11	8 39.03	− 0 33.6	2.592	3.534	5.6	21.0
2 21	8 31.98	+ 0 3.7	2.615	3.521	7.5	21.1
3 2	8 26.19	+ 0 47.1	2.664	3.507	9.8	21.2

148861 2001 VL_{60} 1 30.3 28.°11 1.°2/29.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.54	+19 22.4	1.730	2.524	16.0	20.0
1 2	9 11.64	+19 41.9	1.649	2.526	12.5	19.7
1 12	9 4.99	+20 9.8	1.591	2.529	8.4	19.5
1 22	8 56.22	+20 41.5	1.557	2.532	3.9	19.2
2 1	8 46.36	+21 11.7	1.552	2.535	1.7	19.1
2 11	8 36.73	+21 35.3	1.574	2.539	6.0	19.4
2 21	8 28.54	+21 49.2	1.624	2.542	10.4	19.6
3 2	8 22.73	+21 52.3	1.697	2.546	14.1	19.9

269220 2008 OE_{11} 1 30.3 167.°87 0.°7/30.8 16

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.08	+14 22.2	2.428	3.188	12.9	21.6
1 2	9 10.39	+14 30.4	2.336	3.192	10.2	21.4
1 12	9 3.70	+14 47.3	2.267	3.195	7.0	21.2
1 22	8 55.50	+15 10.6	2.226	3.198	3.4	21.0
2 1	8 46.52	+15 37.1	2.215	3.200	0.8	20.8
2 11	8 37.66	+16 3.6	2.235	3.202	4.3	21.1
2 21	8 29.77	+16 27.1	2.285	3.203	7.8	21.3
3 2	8 23.55	+16 45.7	2.360	3.204	10.8	21.5

87409 2000 QU_{85} 1 30.3 113.°11 1.°7/31.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.59	+10 13.1	2.650	3.398	12.2	20.4
1 2	9 7.45	+10 22.7	2.564	3.410	9.7	20.2
1 12	9 1.59	+10 42.7	2.502	3.421	6.8	20.1
1 22	8 54.48	+11 11.6	2.467	3.432	3.7	19.9
2 1	8 46.74	+11 46.7	2.462	3.443	1.7	19.8
2 11	8 39.13	+12 24.7	2.488	3.454	3.9	19.9
2 21	8 32.37	+13 2.4	2.543	3.464	6.9	20.1
3 2	8 27.05	+13 37.0	2.625	3.475	9.7	20.3

96657 1999 JY_5 1 30.3 261.°30 10.°2/21.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 20.47	+36 42.0	1.731	2.530	15.8	18.9
1 2	9 16.87	+39 22.1	1.649	2.514	13.2	18.7
1 12	9 9.52	+42 5.2	1.591	2.497	11.0	18.5
1 22	8 58.79	+44 36.6	1.559	2.479	10.2	18.4
2 1	8 45.76	+46 41.2	1.555	2.462	11.3	18.4
2 11	8 32.28	+48 8.3	1.577	2.444	13.8	18.5
2 21	8 20.36	+48 55.0	1.621	2.425	16.7	18.7
3 2	8 11.73	+49 5.0	1.684	2.407	19.4	18.8

502778 2015 DR_{90} 1 30.3 213.°50 1.°3/29.3 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.84	+20 47.4	2.675	3.449	11.5	22.0
1 2	9 9.37	+21 11.7	2.577	3.444	8.9	21.8
1 12	9 3.00	+21 40.7	2.504	3.438	6.0	21.6
1 22	8 55.18	+22 11.3	2.459	3.433	2.9	21.4
2 1	8 46.59	+22 39.6	2.445	3.427	1.6	21.3
2 11	8 38.07	+23 2.3	2.461	3.420	4.6	21.5
2 21	8 30.42	+23 17.4	2.507	3.414	7.7	21.7
3 2	8 24.32	+23 23.8	2.578	3.407	10.5	21.9

335634 2006 JR_{20} 1 30.3 161.°69 4.°1/ 2.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.04	+ 2 44.3	2.425	3.148	13.9	21.4
1 2	9 7.26	+ 2 44.6	2.330	3.151	11.5	21.2
1 12	9 1.62	+ 3 0.9	2.256	3.153	8.7	21.1
1 22	8 54.55	+ 3 33.0	2.209	3.155	5.9	20.9
2 1	8 46.72	+ 4 18.9	2.189	3.156	4.1	20.8
2 11	8 38.96	+ 5 15.1	2.200	3.158	5.1	20.8
2 21	8 32.06	+ 6 17.0	2.239	3.159	7.8	21.0
3 2	8 26.68	+ 7 19.8	2.305	3.160	10.6	21.2

405055 2001 SN_{259} 1 30.3 115.°26 0.°2/30.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.73	+14 21.5	2.070	2.839	14.5	22.0
1 2	9 11.18	+14 53.4	1.993	2.855	11.4	21.8
1 12	9 4.35	+15 36.5	1.939	2.870	7.7	21.6
1 22	8 55.83	+16 27.2	1.911	2.884	3.6	21.4
2 1	8 46.47	+17 20.5	1.914	2.899	0.7	21.1
2 11	8 37.33	+18 11.4	1.946	2.912	4.8	21.5
2 21	8 29.38	+18 55.6	2.007	2.926	8.7	21.7
3 2	8 23.40	+19 30.7	2.094	2.939	12.0	22.0

261919 2006 KF_{31} 1 30.3 261.°16 2.°0/28.3 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 9.91	+24 29.3	3.449	4.225	9.1	21.1
1 2	9 5.98	+25 1.7	3.343	4.211	7.1	21.0
1 12	9 0.55	+25 36.5	3.264	4.197	4.8	20.8
1 22	8 54.00	+26 10.6	3.213	4.183	2.6	20.6
2 1	8 46.84	+26 40.9	3.194	4.168	2.2	20.6
2 11	8 39.69	+27 4.7	3.205	4.154	4.2	20.7
2 21	8 33.16	+27 20.4	3.246	4.139	6.6	20.8
3 2	8 27.80	+27 27.2	3.313	4.124	8.8	21.0

105320 2000 QP_{75} 1 30.3 98.°65 1.°6/29.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.99	+20 49.2	1.918	2.705	14.9	19.9
1 2	9 12.48	+21 7.2	1.836	2.710	11.6	19.7
1 12	9 5.40	+21 31.3	1.777	2.714	7.8	19.5
1 22	8 56.37	+21 57.2	1.744	2.718	3.7	19.2
2 1	8 46.36	+22 19.8	1.740	2.723	1.9	19.1
2 11	8 36.58	+22 35.0	1.765	2.727	5.8	19.4
2 21	8 28.15	+22 40.6	1.818	2.731	9.8	19.6
3 2	8 21.96	+22 36.1	1.895	2.735	13.2	19.8

466275 2013 OF_7 1 30.3 193.°80 4.°5/ 2.9 16

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.41	+ 1 26.9	2.268	2.986	14.8	22.7
1 2	9 8.52	+ 1 32.8	2.168	2.985	12.4	22.5
1 12	9 2.58	+ 1 57.1	2.090	2.983	9.5	22.3
1 22	8 55.05	+ 2 39.8	2.037	2.981	6.5	22.1
2 1	8 46.65	+ 3 39.0	2.013	2.978	4.6	22.0
2 11	8 38.27	+ 4 50.2	2.018	2.975	5.5	22.0
2 21	8 30.79	+ 6 7.9	2.052	2.972	8.4	22.2
3 2	8 24.97	+ 7 26.4	2.112	2.968	11.4	22.4

446825 2001 OM_{50} 1 30.3 123.°23 3.°4/28.2 15

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 23.54	+24 27.8	1.972	2.751	14.8	22.4
1 2	9 17.44	+25 23.9	1.906	2.774	11.5	22.2
1 12	9 8.63	+26 23.8	1.864	2.796	7.8	22.0
1 22	8 57.82	+27 20.8	1.849	2.818	4.4	21.9
2 1	8 46.11	+28 7.8	1.864	2.838	3.8	21.9
2 11	8 34.78	+28 39.9	1.910	2.857	6.8	22.1
2 21	8 25.02	+28 55.6	1.984	2.875	10.3	22.3
3 2	8 17.69	+28 55.7	2.082	2.893	13.3	22.6

163480 2002 RB_{232} 1 30.3 180.°39 1.°5/31.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.41	+ 9 17.7	2.633	3.379	12.3	20.6
1 2	9 7.45	+ 9 52.1	2.535	3.380	9.9	20.4
1 12	9 1.70	+10 39.4	2.461	3.381	6.9	20.2
1 22	8 54.60	+11 37.2	2.414	3.381	3.7	20.0
2 1	8 46.75	+12 42.1	2.398	3.380	1.5	19.8
2 11	8 38.94	+13 49.6	2.413	3.380	4.0	20.0
2 21	8 31.91	+14 55.4	2.458	3.379	7.2	20.2
3 2	8 26.32	+15 55.6	2.531	3.378	10.1	20.4

301594 2010 CC_{63} 1 30.3 235.°72 1.°4/29.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 19.74	+19 33.9	1.886	2.667	15.3	21.6
1 2	9 14.99	+20 0.9	1.783	2.653	12.1	21.3
1 12	9 7.39	+20 36.6	1.703	2.638	8.2	21.0
1 22	8 57.46	+21 16.4	1.648	2.622	3.9	20.7
2 1	8 46.14	+21 54.7	1.623	2.606	1.9	20.6
2 11	8 34.77	+22 25.6	1.627	2.589	6.2	20.8
2 21	8 24.65	+22 45.7	1.660	2.571	10.6	21.0
3 2	8 16.88	+22 53.7	1.716	2.553	14.6	21.2

377215 2003 XQ_{38} 1 30.3 34.°34 7.°3/25.6 16

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.35	+32 11.1	1.600	2.413	16.2	19.8
1 2	9 11.93	+33 45.4	1.551	2.433	12.9	19.6
1 12	9 5.36	+35 17.8	1.525	2.453	9.6	19.5
1 22	8 56.43	+36 37.9	1.523	2.474	7.5	19.4
2 1	8 46.41	+37 36.4	1.548	2.495	7.9	19.5
2 11	8 36.88	+38 8.0	1.598	2.517	10.3	19.7
2 21	8 29.19	+38 12.5	1.673	2.540	13.2	19.9
3 2	8 24.28	+37 53.4	1.768	2.563	16.0	20.1

468305 2015 YA_8 1 30.3 321.°32 7.°6/ 3.4 16

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 8.64	− 0 41.5	1.452	2.206	20.3	20.4
1 2	9 7.45	− 0 53.0	1.313	2.149	17.7	20.1
1 12	9 3.20	− 0 34.8	1.191	2.092	14.3	19.7
1 22	8 55.98	+ 0 19.7	1.090	2.035	10.5	19.3
2 1	8 46.39	+ 1 54.8	1.011	1.978	7.7	19.0
2 11	8 35.70	+ 4 8.3	0.958	1.921	9.1	18.8
2 21	8 25.59	+ 6 50.4	0.929	1.865	14.0	18.9
3 2	8 17.86	+ 9 46.2	0.923	1.809	19.8	19.0

203836 2002 VZ_{44} 1 30.3 57.°57 1.°1/29.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.06	+17 54.9	2.011	2.797	14.3	20.1
1 2	9 9.21	+18 36.7	1.941	2.814	11.1	19.9
1 12	9 3.08	+19 27.5	1.894	2.831	7.4	19.7
1 22	8 55.28	+20 22.6	1.874	2.849	3.4	19.5
2 1	8 46.67	+21 16.4	1.883	2.867	1.5	19.4
2 11	8 38.33	+22 3.8	1.922	2.885	5.3	19.7
2 21	8 31.20	+22 41.2	1.988	2.903	9.0	19.9
3 2	8 26.04	+23 7.0	2.079	2.921	12.2	20.1

239611 Likwohting 1 30.3 339.°11 2.°9/31.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.23	+ 8 49.2	1.480	2.259	18.9	20.5
1 2	9 11.06	+ 8 53.6	1.396	2.258	15.3	20.2
1 12	9 4.90	+ 9 17.8	1.331	2.257	11.0	20.0
1 22	8 56.34	+10 0.4	1.289	2.256	6.2	19.7
2 1	8 46.43	+10 57.2	1.274	2.255	2.9	19.5
2 11	8 36.63	+12 1.3	1.286	2.255	6.3	19.7
2 21	8 28.31	+13 5.4	1.323	2.254	11.1	20.0
3 2	8 22.59	+14 3.2	1.384	2.254	15.5	20.2

418082 2007 VK_{307} 1 30.3 329.°78 6.°1/25.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.32	+32 47.8	2.142	2.939	13.2	20.7
1 2	9 10.60	+34 4.3	2.061	2.934	10.6	20.5
1 12	9 4.30	+35 20.3	2.005	2.928	8.0	20.3
1 22	8 55.96	+36 28.2	1.975	2.923	6.3	20.2
2 1	8 46.52	+37 20.7	1.974	2.919	6.6	20.2
2 11	8 37.17	+37 52.6	1.999	2.914	8.8	20.3
2 21	8 29.09	+38 2.4	2.051	2.910	11.5	20.5
3 2	8 23.20	+37 51.6	2.124	2.906	14.1	20.7

85336 1995 SJ_{27} 1 30.3 9.°25 0.°2/30.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.53	+15 48.7	2.063	2.845	14.1	20.5
1 2	9 8.06	+16 3.2	1.976	2.846	11.1	20.3
1 12	9 2.36	+16 27.3	1.913	2.847	7.5	20.1
1 22	8 54.98	+16 57.9	1.876	2.849	3.5	19.9
2 1	8 46.73	+17 31.2	1.867	2.852	0.7	19.7
2 11	8 38.61	+18 3.0	1.887	2.854	4.8	20.0
2 21	8 31.60	+18 29.7	1.935	2.857	8.7	20.2
3 2	8 26.45	+18 49.0	2.008	2.861	12.1	20.4

430852 2005 MX_{15} 1 30.3 211.°63 2.°2/ 1.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 10.47	+ 6 21.2	3.077	3.803	11.1	22.0
1 2	9 6.48	+ 6 43.6	2.967	3.796	9.0	21.9
1 12	9 0.95	+ 7 18.0	2.881	3.788	6.6	21.7
1 22	8 54.25	+ 8 3.4	2.823	3.780	4.0	21.5
2 1	8 46.88	+ 8 57.3	2.795	3.772	2.3	21.4
2 11	8 39.51	+ 9 56.6	2.799	3.763	3.7	21.5
2 21	8 32.76	+10 57.4	2.834	3.754	6.4	21.6
3 2	8 27.20	+11 56.4	2.897	3.744	9.0	21.8

176749 2002 RG_{113} 1 30.3 108.°81 0.°4/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.18	+14 20.3	1.930	2.701	15.4	21.5
1 2	9 12.45	+14 46.4	1.856	2.718	12.1	21.3
1 12	9 5.29	+15 24.2	1.805	2.736	8.2	21.1
1 22	8 56.33	+16 9.8	1.780	2.753	3.9	20.9
2 1	8 46.49	+16 58.4	1.785	2.769	0.7	20.7
2 11	8 36.93	+17 44.6	1.819	2.785	5.1	21.0
2 21	8 28.68	+18 24.3	1.881	2.801	9.1	21.3
3 2	8 22.57	+18 55.1	1.969	2.816	12.6	21.6

357498 2004 PK_{36} 1 30.3 86.°61 3.°2/ 1.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.07	+ 7 22.2	1.606	2.364	18.5	21.0
1 2	9 14.19	+ 7 29.1	1.544	2.392	14.9	20.9
1 12	9 6.56	+ 7 55.0	1.502	2.420	10.6	20.7
1 22	8 56.92	+ 8 37.8	1.484	2.447	6.1	20.5
2 1	8 46.39	+ 9 32.8	1.494	2.474	3.2	20.4
2 11	8 36.31	+10 33.6	1.533	2.500	5.8	20.6
2 21	8 27.84	+11 33.9	1.599	2.525	9.9	20.9
3 2	8 21.85	+12 28.5	1.690	2.550	13.6	21.2

415226 2012 HM_{67} 1 30.3 25.°57 3.°4/ 1.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.91	+ 7 4.8	1.577	2.351	18.1	20.6
1 2	9 8.15	+ 7 12.0	1.500	2.358	14.7	20.4
1 12	9 2.73	+ 7 39.5	1.443	2.365	10.6	20.1
1 22	8 55.25	+ 8 26.0	1.410	2.373	6.3	19.9
2 1	8 46.70	+ 9 27.2	1.402	2.382	3.4	19.7
2 11	8 38.36	+10 36.5	1.422	2.391	5.9	19.9
2 21	8 31.39	+11 46.6	1.469	2.400	10.1	20.2
3 2	8 26.71	+12 51.4	1.539	2.411	14.1	20.4

226844 2004 SF_{40} 1 30.3 73.°76 3.°5/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.70	+25 26.8	1.932	2.726	14.5	20.1
1 2	9 12.33	+26 9.8	1.858	2.735	11.3	19.9
1 12	9 5.35	+26 56.2	1.807	2.743	7.8	19.7
1 22	8 56.40	+27 39.9	1.783	2.752	4.4	19.5
2 1	8 46.49	+28 14.5	1.787	2.760	3.9	19.5
2 11	8 36.85	+28 35.4	1.820	2.769	6.9	19.7
2 21	8 28.63	+28 41.0	1.879	2.778	10.4	20.0
3 2	8 22.68	+28 32.0	1.963	2.786	13.5	20.2

193997 2001 RM_{152} 1 30.3 177.°59 3.°2/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.06	+23 33.0	1.982	2.764	14.7	21.9
1 2	9 15.78	+24 26.3	1.897	2.767	11.5	21.7
1 12	9 7.75	+25 25.5	1.835	2.769	7.8	21.5
1 22	8 57.57	+26 24.2	1.800	2.770	4.3	21.3
2 1	8 46.24	+27 15.3	1.795	2.770	3.6	21.2
2 11	8 35.04	+27 53.0	1.820	2.770	6.8	21.4
2 21	8 25.21	+28 14.7	1.872	2.768	10.5	21.6
3 2	8 17.73	+28 20.4	1.949	2.766	13.9	21.9

92430 2000 JW_{63} 1 30.3 212.°77 0.°2/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.00	+15 40.4	1.956	2.728	15.2	21.0
1 2	9 13.42	+16 11.5	1.857	2.721	12.0	20.7
1 12	9 6.22	+16 54.6	1.780	2.713	8.2	20.5
1 22	8 56.90	+17 45.7	1.730	2.704	3.8	20.2
2 1	8 46.37	+18 39.5	1.710	2.695	0.9	20.0
2 11	8 35.82	+19 30.1	1.719	2.684	5.5	20.3
2 21	8 26.44	+20 13.0	1.757	2.673	9.8	20.5
3 2	8 19.22	+20 45.3	1.820	2.662	13.7	20.7

145125 2005 GU_{141} 1 30.3 227.°49 3.°3/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.81	+24 29.4	1.916	2.706	14.8	20.6
1 2	9 14.20	+25 9.4	1.824	2.699	11.6	20.4
1 12	9 6.80	+25 54.3	1.755	2.691	8.0	20.1
1 22	8 57.18	+26 38.1	1.713	2.683	4.4	19.9
2 1	8 46.32	+27 14.2	1.699	2.675	3.7	19.8
2 11	8 35.55	+27 37.1	1.715	2.666	7.0	20.0
2 21	8 26.13	+27 44.6	1.757	2.657	10.9	20.2
3 2	8 19.08	+27 37.0	1.823	2.648	14.4	20.4

304831 2007 RQ_{23} 1 30.3 204.°11 0.°6/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.23	+14 14.2	2.053	2.818	14.8	22.1
1 2	9 13.39	+14 28.2	1.955	2.813	11.8	21.9
1 12	9 6.08	+14 53.3	1.879	2.807	8.1	21.7
1 22	8 56.79	+15 26.6	1.829	2.801	3.9	21.4
2 1	8 46.41	+16 4.1	1.809	2.794	0.9	21.2
2 11	8 36.05	+16 41.2	1.819	2.786	5.1	21.4
2 21	8 26.82	+17 14.0	1.858	2.777	9.2	21.7
3 2	8 19.64	+17 39.7	1.923	2.768	12.9	21.9

135949 2002 TQ_{219} 1 30.3 74.°44 1.°5/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.42	+20 32.8	1.678	2.466	16.7	19.7
1 2	9 15.98	+20 50.8	1.620	2.493	12.9	19.5
1 12	9 7.71	+21 15.4	1.584	2.520	8.6	19.3
1 22	8 57.43	+21 41.2	1.573	2.547	4.0	19.1
2 1	8 46.33	+22 2.8	1.591	2.574	1.9	19.0
2 11	8 35.80	+22 16.0	1.639	2.601	6.1	19.3
2 21	8 27.02	+22 19.1	1.713	2.627	10.2	19.6
3 2	8 20.81	+22 12.1	1.811	2.653	13.7	19.9

360836 2005 NN_3 1 30.3 150.°87 0.°3/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.02	+14 23.8	2.246	3.012	13.6	21.4
1 2	9 10.61	+15 19.9	2.159	3.020	10.7	21.2
1 12	9 4.02	+16 28.1	2.097	3.028	7.2	21.0
1 22	8 55.78	+17 44.2	2.062	3.035	3.3	20.8
2 1	8 46.64	+19 2.4	2.057	3.042	0.8	20.6
2 11	8 37.59	+20 16.7	2.084	3.048	4.8	20.9
2 21	8 29.57	+21 22.2	2.140	3.054	8.5	21.2
3 2	8 23.35	+22 16.1	2.223	3.059	11.7	21.4

379004 2008 UP_{344} 1 30.3 0.°29 1.°0/30.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.41	+13 55.4	1.793	2.579	15.8	21.2
1 2	9 8.32	+13 59.6	1.707	2.577	12.5	21.0
1 12	9 2.75	+14 15.8	1.643	2.577	8.6	20.7
1 22	8 55.25	+14 41.6	1.604	2.576	4.3	20.5
2 1	8 46.74	+15 13.0	1.592	2.577	1.1	20.2
2 11	8 38.37	+15 45.5	1.609	2.578	5.2	20.5
2 21	8 31.23	+16 14.9	1.652	2.580	9.5	20.8
3 2	8 26.22	+16 38.0	1.719	2.582	13.3	21.0

465961 2011 BE_{103} 1 30.3 325.°55 2.°6/28.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.12	+22 33.0	1.830	2.627	15.1	21.7
1 2	9 11.35	+23 7.5	1.744	2.623	11.8	21.5
1 12	9 4.87	+23 48.3	1.680	2.619	8.0	21.3
1 22	8 56.27	+24 30.1	1.642	2.615	4.1	21.0
2 1	8 46.53	+25 6.5	1.632	2.611	3.0	21.0
2 11	8 36.93	+25 32.3	1.650	2.608	6.6	21.2
2 21	8 28.68	+25 44.8	1.695	2.605	10.6	21.4
3 2	8 22.74	+25 43.3	1.764	2.602	14.2	21.6

428998 2009 BQ_{31} 1 30.3 34.°72 0.°9/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.17	+20 4.9	2.155	2.937	13.6	20.5
1 2	9 10.77	+20 9.7	2.070	2.941	10.6	20.3
1 12	9 4.13	+20 19.6	2.009	2.945	7.1	20.1
1 22	8 55.80	+20 31.5	1.975	2.949	3.3	19.9
2 1	8 46.65	+20 41.7	1.970	2.953	1.3	19.7
2 11	8 37.70	+20 47.1	1.994	2.958	5.0	20.0
2 21	8 29.93	+20 45.8	2.047	2.963	8.7	20.2
3 2	8 24.08	+20 37.4	2.125	2.968	11.9	20.4

492572 2014 OG_{172} 1 30.3 283.°83 3.°4/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.71	+21 30.5	1.531	2.337	17.2	21.3
1 2	9 12.45	+22 33.8	1.447	2.331	13.5	21.0
1 12	9 6.01	+23 48.6	1.384	2.325	9.1	20.7
1 22	8 56.95	+25 7.3	1.345	2.318	4.8	20.5
2 1	8 46.39	+26 20.4	1.334	2.312	3.9	20.4
2 11	8 35.87	+27 19.2	1.351	2.306	8.0	20.6
2 21	8 26.93	+27 58.6	1.392	2.300	12.6	20.9
3 2	8 20.75	+28 17.7	1.456	2.294	16.6	21.1

225579 2000 UP_{102} 1 30.3 56.°54 8.°9/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.62	+38 30.1	1.697	2.493	16.2	20.0
1 2	9 17.61	+39 53.1	1.652	2.515	13.3	19.9
1 12	9 9.17	+41 7.8	1.628	2.537	10.6	19.8
1 22	8 58.21	+42 3.8	1.629	2.559	9.0	19.7
2 1	8 46.19	+42 32.8	1.655	2.581	9.4	19.8
2 11	8 34.85	+42 31.5	1.708	2.603	11.3	19.9
2 21	8 25.66	+42 2.2	1.783	2.626	13.7	20.1
3 2	8 19.55	+41 10.5	1.880	2.648	16.1	20.4

140783 2001 UP_{137} 1 30.3 330.°48 1.°7/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.71	+19 39.7	1.767	2.562	15.7	20.2
1 2	9 11.08	+20 16.2	1.682	2.560	12.3	20.0
1 12	9 4.72	+21 2.0	1.619	2.558	8.2	19.8
1 22	8 56.22	+21 52.2	1.582	2.556	3.9	19.5
2 1	8 46.56	+22 40.1	1.572	2.554	2.2	19.4
2 11	8 37.02	+23 20.0	1.591	2.553	6.3	19.6
2 21	8 28.84	+23 47.8	1.637	2.551	10.5	19.9
3 2	8 22.98	+24 2.2	1.706	2.550	14.3	20.1

139761 2001 QA_{286} 1 30.3 84.°71 3.°9/ 1.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.75	+ 8 12.2	1.876	2.624	16.6	19.4
1 2	9 14.35	+ 7 33.2	1.806	2.646	13.4	19.3
1 12	9 6.50	+ 7 7.6	1.757	2.669	9.8	19.1
1 22	8 56.87	+ 6 55.4	1.734	2.691	6.0	18.9
2 1	8 46.46	+ 6 55.3	1.739	2.713	3.9	18.8
2 11	8 36.42	+ 7 4.6	1.773	2.735	5.8	19.0
2 21	8 27.79	+ 7 19.7	1.836	2.756	9.2	19.2
3 2	8 21.34	+ 7 37.2	1.923	2.777	12.5	19.5

522397 2016 CC_{309} 1 30.3 147.°78 0.°4/30.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.03	+16 17.9	2.146	2.922	13.9	22.0
1 2	9 9.95	+16 53.0	2.059	2.926	10.9	21.8
1 12	9 3.64	+17 38.2	1.996	2.930	7.3	21.6
1 22	8 55.61	+18 29.6	1.959	2.933	3.4	21.3
2 1	8 46.69	+19 22.2	1.952	2.937	0.9	21.1
2 11	8 37.88	+20 11.1	1.975	2.940	4.9	21.4
2 21	8 30.16	+20 52.3	2.027	2.943	8.7	21.7
3 2	8 24.31	+21 23.4	2.104	2.946	12.1	21.9

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
206273	2002 YF_{26}		1 30.3	288.°06	4.°1/ 1.6	18
	h m	° ′			°	m
12 23	9 14.00	+ 6 23.7	2.372	3.107	13.8	20.0
1 2	9 9.77	+ 5 41.8	2.261	3.091	11.4	19.8
1 12	9 3.47	+ 5 10.6	2.172	3.075	8.6	19.6
1 22	8 55.55	+ 4 50.9	2.109	3.059	5.8	19.4
2 1	8 46.70	+ 4 42.7	2.075	3.043	4.1	19.3
2 11	8 37.81	+ 4 44.5	2.070	3.027	5.5	19.3
2 21	8 29.76	+ 4 54.1	2.094	3.011	8.4	19.5
3 2	8 23.33	+ 5 8.4	2.143	2.995	11.5	19.6
52682	1998 DM_{34}		1 30.3	172.°02	3.°2/27.9	18
12 23	9 15.26	+27 26.4	2.629	3.411	11.4	19.7
1 2	9 10.58	+28 2.2	2.543	3.412	9.0	19.5
1 12	9 3.88	+28 39.0	2.482	3.413	6.2	19.3
1 22	8 55.67	+29 12.1	2.449	3.414	3.8	19.2
2 1	8 46.70	+29 37.3	2.446	3.415	3.5	19.1
2 11	8 37.88	+29 51.2	2.473	3.415	5.8	19.3
2 21	8 30.06	+29 52.7	2.528	3.416	8.5	19.5
3 2	8 23.94	+29 42.0	2.609	3.416	11.1	19.6
398684	2012 VS_{90}		1 30.3	11.°74	2.°0/31.3	18
12 23	9 14.94	+12 3.8	1.277	2.077	20.3	21.8
1 2	9 12.07	+12 2.8	1.201	2.077	16.2	21.6
1 12	9 5.83	+12 20.0	1.143	2.078	11.4	21.3
1 22	8 56.88	+12 53.1	1.108	2.080	5.9	21.0
2 1	8 46.45	+13 37.0	1.098	2.082	2.0	20.7
2 11	8 36.23	+14 24.6	1.114	2.084	6.7	21.0
2 21	8 27.81	+15 9.1	1.154	2.087	12.1	21.3
3 2	8 22.36	+15 45.5	1.216	2.090	16.8	21.6
168281	2007 QM_{8}		1 30.3	104.°33	1.°8/31.5	18
12 23	9 17.55	+10 21.1	1.790	2.554	16.7	20.7
1 2	9 12.89	+10 41.3	1.719	2.574	13.3	20.5
1 12	9 5.68	+11 17.2	1.669	2.593	9.2	20.3
1 22	8 56.57	+12 5.8	1.644	2.612	4.9	20.1
2 1	8 46.54	+13 2.2	1.648	2.631	1.8	19.9
2 11	8 36.81	+14 0.3	1.681	2.649	5.2	20.2
2 21	8 28.49	+14 54.9	1.743	2.666	9.4	20.5
3 2	8 22.40	+15 42.0	1.829	2.683	13.0	20.7
362927	2012 DO_{47}		1 30.3	150.°83	1.°2/31.3	18
12 23	9 15.00	+10 18.1	2.186	2.940	14.3	21.2
1 2	9 10.62	+11 1.0	2.098	2.948	11.4	21.1
1 12	9 4.06	+11 58.6	2.033	2.956	7.9	20.9
1 22	8 55.82	+13 7.9	1.995	2.964	4.0	20.6
2 1	8 46.70	+14 23.9	1.987	2.971	1.2	20.4
2 11	8 37.68	+15 40.6	2.010	2.977	4.6	20.7
2 21	8 29.68	+16 52.6	2.062	2.982	8.4	20.9
3 2	8 23.51	+17 55.8	2.141	2.988	11.7	21.1
320851	2008 FG_{104}		1 30.3	254.°77	6.°4/ 3.8	18
12 23	9 12.30	− 1 49.2	2.107	2.815	16.1	20.8
1 2	9 8.76	− 2 7.8	1.999	2.802	13.8	20.6
1 12	9 2.98	− 2 6.2	1.911	2.788	11.0	20.4
1 22	8 55.42	− 1 42.6	1.846	2.775	8.3	20.2
2 1	8 46.78	− 0 57.1	1.808	2.761	6.5	20.1
2 11	8 38.06	+ 0 7.2	1.799	2.746	7.1	20.1
2 21	8 30.24	+ 1 24.5	1.816	2.732	9.6	20.2
3 2	8 24.19	+ 2 48.3	1.860	2.717	12.7	20.4
249351	2008 WC_{140}		1 30.4	15.°83	0.°9/30.8	18
12 23	9 16.47	+16 16.3	2.158	2.929	14.0	19.9
1 2	9 11.75	+15 52.2	2.069	2.930	11.0	19.7
1 12	9 4.78	+15 34.3	2.002	2.932	7.6	19.5
1 22	8 56.14	+15 21.0	1.963	2.934	3.7	19.3
2 1	8 46.66	+15 10.3	1.952	2.937	1.0	19.0
2 11	8 37.38	+15 0.2	1.972	2.939	4.7	19.3
2 21	8 29.25	+14 49.0	2.021	2.942	8.4	19.6
3 2	8 23.03	+14 35.7	2.095	2.945	11.8	19.8
258197	2001 SW_{285}		1 30.4	83.°95	5.°9/26.0	18
12 23	9 20.92	+29 39.0	1.935	2.726	14.6	19.8
1 2	9 15.66	+31 23.2	1.886	2.757	11.5	19.7
1 12	9 7.61	+33 7.5	1.862	2.788	8.3	19.6
1 22	8 57.49	+34 42.4	1.865	2.818	6.1	19.5
2 1	8 46.41	+35 59.2	1.897	2.848	6.4	19.6
2 11	8 35.74	+36 52.3	1.958	2.877	8.7	19.7
2 21	8 26.68	+37 20.9	2.046	2.906	11.5	20.0
3 2	8 20.11	+37 27.4	2.156	2.934	14.0	20.2
325904	2010 UG_{56}		1 30.4	93.°41	0.°6/30.7	18
12 23	9 17.74	+14 46.5	1.896	2.668	15.6	21.3
1 2	9 12.92	+14 55.6	1.824	2.687	12.2	21.1
1 12	9 5.64	+15 15.2	1.775	2.705	8.3	20.9
1 22	8 56.55	+15 42.2	1.751	2.723	4.0	20.7
2 1	8 46.62	+16 12.3	1.757	2.741	0.8	20.5
2 11	8 37.01	+16 41.2	1.792	2.759	5.0	20.8
2 21	8 28.77	+17 5.5	1.855	2.776	9.1	21.1
3 2	8 22.70	+17 23.1	1.943	2.793	12.6	21.3

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
205917	2002 GT_{135}		1 30.4	248.°41	2.°2/29.2	18
	h m	° ′			°	m
12 23	9 18.38	+21 15.8	1.781	2.571	15.7	21.2
1 2	9 14.10	+21 45.5	1.686	2.561	12.4	20.9
1 12	9 6.91	+22 23.0	1.612	2.549	8.4	20.7
1 22	8 57.35	+23 3.0	1.564	2.538	4.1	20.4
2 1	8 46.42	+23 39.2	1.544	2.526	2.6	20.2
2 11	8 35.52	+24 5.8	1.554	2.513	6.6	20.5
2 21	8 25.99	+24 19.6	1.590	2.501	11.0	20.7
3 2	8 18.92	+24 19.8	1.649	2.488	15.0	20.9
274912	2009 SL_{138}		1 30.4	202.°52	1.°8/29.2	18
12 23	9 15.97	+21 3.7	2.063	2.849	14.0	21.4
1 2	9 11.66	+21 34.6	1.975	2.847	11.0	21.2
1 12	9 4.92	+22 12.0	1.909	2.846	7.4	21.0
1 22	8 56.29	+22 51.3	1.870	2.844	3.6	20.8
2 1	8 46.65	+23 27.2	1.861	2.842	2.2	20.7
2 11	8 37.14	+23 55.1	1.880	2.840	5.7	20.9
2 21	8 28.82	+24 12.2	1.928	2.837	9.5	21.1
3 2	8 22.55	+24 17.7	2.000	2.835	12.9	21.3
409430	2005 NE_{44}		1 30.4	172.°37	1.°9/28.9	18
12 23	9 14.30	+17 42.7	1.879	2.666	15.1	21.2
1 2	9 10.65	+18 57.6	1.793	2.667	11.8	21.0
1 12	9 4.42	+20 25.7	1.730	2.668	7.9	20.8
1 22	8 56.13	+22 0.7	1.694	2.669	3.7	20.5
2 1	8 46.67	+23 34.5	1.688	2.669	2.4	20.4
2 11	8 37.26	+24 59.0	1.711	2.669	6.3	20.7
2 21	8 29.06	+26 8.5	1.762	2.669	10.4	20.9
3 2	8 23.03	+27 0.2	1.837	2.669	14.0	21.1
296362	2009 FU_{25}		1 30.4	108.°30	5.°0/26.5	18
12 23	9 16.94	+32 46.3	2.543	3.326	11.7	20.9
1 2	9 12.02	+33 39.3	2.472	3.337	9.4	20.7
1 12	9 4.91	+34 30.0	2.427	3.348	6.9	20.6
1 22	8 56.18	+35 12.7	2.409	3.358	5.2	20.5
2 1	8 46.69	+35 42.3	2.420	3.369	5.3	20.5
2 11	8 37.44	+35 55.4	2.460	3.379	7.1	20.6
2 21	8 29.37	+35 51.7	2.527	3.390	9.5	20.8
3 2	8 23.18	+35 32.7	2.619	3.400	11.7	21.0
382229	2012 RW_{13}		1 30.4	165.°47	6.°5/24.9	18
12 23	9 20.49	+39 59.1	2.775	3.543	11.2	21.5
1 2	9 14.83	+40 57.5	2.702	3.547	9.3	21.3
1 12	9 6.83	+41 49.8	2.654	3.550	7.6	21.2
1 22	8 57.10	+42 29.6	2.634	3.553	6.6	21.2
2 1	8 46.51	+42 51.7	2.642	3.556	6.9	21.2
2 11	8 36.17	+42 53.5	2.678	3.558	8.3	21.3
2 21	8 27.07	+42 35.2	2.740	3.560	10.1	21.4
3 2	8 19.99	+41 59.5	2.825	3.562	12.0	21.5
235566	2004 GP_{73}		1 30.4	159.°51	0.°4/30.7	17
12 23	9 11.98	+14 30.6	2.883	3.641	11.1	21.2
1 2	9 7.73	+14 51.6	2.791	3.646	8.7	21.0
1 12	9 1.85	+15 20.3	2.723	3.650	5.9	20.9
1 22	8 54.73	+15 54.5	2.683	3.655	2.8	20.7
2 1	8 46.99	+16 31.3	2.674	3.659	0.6	20.5
2 11	8 39.33	+17 7.3	2.696	3.662	3.7	20.7
2 21	8 32.44	+17 40.0	2.748	3.665	6.7	20.9
3 2	8 26.89	+18 7.3	2.828	3.668	9.4	21.1
430166	2013 TZ_{82}		1 30.4	35.°56	5.°2/ 2.5	18
12 23	9 12.48	+ 4 9.4	1.753	2.504	17.4	21.1
1 2	9 8.98	+ 3 35.3	1.683	2.520	14.4	20.9
1 12	9 3.08	+ 3 19.4	1.633	2.538	10.9	20.8
1 22	8 55.39	+ 3 22.3	1.606	2.555	7.4	20.6
2 1	8 46.87	+ 3 42.5	1.606	2.574	5.2	20.5
2 11	8 38.63	+ 4 16.4	1.634	2.593	6.5	20.6
2 21	8 31.68	+ 4 58.7	1.687	2.612	9.6	20.9
3 2	8 26.82	+ 5 43.9	1.766	2.632	12.8	21.1
371078	2005 US_{349}		1 30.4	112.°73	17.°0/ 9.6	18
12 23	9 17.52	−16 52.0	1.325	1.983	26.1	21.2
1 2	9 14.06	−18 51.5	1.260	1.992	23.9	21.0
1 12	9 7.20	−20 15.6	1.207	2.002	21.5	20.9
1 22	8 57.58	−20 54.2	1.170	2.011	19.2	20.7
2 1	8 46.40	−20 40.0	1.150	2.019	17.5	20.6
2 11	8 35.36	−19 33.4	1.150	2.027	17.0	20.6
2 21	8 26.07	−17 42.9	1.171	2.035	17.9	20.7
3 2	8 19.77	−15 22.6	1.210	2.043	19.7	20.9
329841	2004 TW_{46}		1 30.4	135.°06	5.°6/ 3.6	18
12 23	9 13.02	− 0 53.7	2.329	3.032	14.9	21.4
1 2	9 8.89	− 1 14.7	2.240	3.041	12.6	21.2
1 12	9 2.80	− 1 18.2	2.172	3.049	9.9	21.0
1 22	8 55.23	− 1 3.3	2.128	3.057	7.3	20.9
2 1	8 46.90	− 0 30.6	2.112	3.064	5.7	20.8
2 11	8 38.67	+ 0 16.7	2.125	3.072	6.3	20.9
2 21	8 31.37	+ 1 14.1	2.166	3.078	8.5	21.0
3 2	8 25.70	+ 2 16.4	2.234	3.085	11.1	21.2

66760 1999 TV_{185} 1 30.4 245.°02 3.°7/ 1.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.59	+ 8 1.3	2.137	2.883	14.9	19.4
1 2	9 11.16	+ 7 26.8	2.039	2.878	12.1	19.2
1 12	9 4.50	+ 7 4.0	1.963	2.874	8.9	19.0
1 22	8 56.09	+ 6 53.0	1.912	2.869	5.6	18.7
2 1	8 46.73	+ 6 53.1	1.890	2.864	3.7	18.6
2 11	8 37.43	+ 7 2.1	1.898	2.859	5.4	18.7
2 21	8 29.17	+ 7 17.1	1.934	2.855	8.8	18.9
3 2	8 22.75	+ 7 34.8	1.995	2.850	12.1	19.1

31104 Annanetrebko 1 30.4 257.°64 0.°3/30.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.97	+16 24.3	1.629	2.414	17.2	18.9
1 2	9 14.79	+16 23.7	1.531	2.401	13.7	18.6
1 12	9 7.51	+16 33.7	1.454	2.388	9.4	18.3
1 22	8 57.70	+16 51.2	1.401	2.375	4.5	18.0
2 1	8 46.39	+17 11.8	1.376	2.361	0.9	17.7
2 11	8 35.06	+17 30.5	1.380	2.347	6.2	18.0
2 21	8 25.16	+17 43.6	1.410	2.333	11.2	18.3
3 2	8 17.86	+17 49.1	1.463	2.319	15.6	18.5

73526 2003 NU 1 30.4 173.°54 0.°6/29.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.05	+16 56.3	2.135	2.904	14.1	21.0
1 2	9 13.15	+17 31.5	2.045	2.908	11.1	20.8
1 12	9 5.86	+18 16.4	1.978	2.911	7.5	20.5
1 22	8 56.73	+19 6.9	1.939	2.913	3.4	20.3
2 1	8 46.61	+19 57.8	1.930	2.914	1.1	20.1
2 11	8 36.60	+20 43.9	1.952	2.915	5.1	20.4
2 21	8 27.72	+21 21.4	2.002	2.915	9.0	20.6
3 2	8 20.84	+21 48.5	2.079	2.914	12.4	20.9

10975 Schelderode 1 30.4 171.°98 1.°3/31.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.61	+11 30.4	2.493	3.244	12.8	19.8
1 2	9 10.05	+11 44.5	2.399	3.247	10.2	19.6
1 12	9 3.56	+12 9.2	2.328	3.250	7.1	19.4
1 22	8 55.59	+12 42.6	2.284	3.252	3.7	19.2
2 1	8 46.85	+13 21.7	2.271	3.254	1.4	19.0
2 11	8 38.19	+14 2.7	2.288	3.255	4.2	19.2
2 21	8 30.42	+14 42.0	2.336	3.256	7.5	19.4
3 2	8 24.25	+15 17.0	2.410	3.256	10.6	19.6

249562 5019 $T\text{-}_2$ 1 30.4 130.°08 4.°4/28.0 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 24.87	+30 4.8	2.111	2.889	14.0	20.9
1 2	9 18.44	+30 33.3	2.038	2.903	11.1	20.7
1 12	9 9.34	+31 0.1	1.989	2.916	7.8	20.6
1 22	8 58.27	+31 19.0	1.967	2.928	5.1	20.4
2 1	8 46.34	+31 24.5	1.975	2.940	4.7	20.4
2 11	8 34.84	+31 13.8	2.013	2.952	7.1	20.6
2 21	8 24.93	+30 47.2	2.079	2.963	10.2	20.8
3 2	8 17.43	+30 7.4	2.169	2.973	13.1	21.0

12018 1996 XJ_{15} 1 30.4 180.°06 1.°8/29.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.64	+19 39.7	2.073	2.852	14.2	19.3
1 2	9 12.98	+20 28.1	1.984	2.853	11.1	19.1
1 12	9 5.84	+21 25.3	1.919	2.854	7.5	18.8
1 22	8 56.76	+22 26.0	1.881	2.855	3.6	18.6
2 1	8 46.62	+23 24.0	1.873	2.854	2.2	18.5
2 11	8 36.57	+24 13.6	1.895	2.853	5.8	18.7
2 21	8 27.69	+24 51.1	1.945	2.852	9.6	19.0
3 2	8 20.90	+25 15.1	2.021	2.849	13.0	19.2

506334 2017 OV_{25} 1 30.4 237.°70 3.°3/ 1.3 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.73	+ 7 55.7	2.396	3.130	13.7	21.7
1 2	9 11.90	+ 7 28.4	2.283	3.116	11.2	21.5
1 12	9 4.95	+ 7 11.7	2.193	3.102	8.3	21.2
1 22	8 56.32	+ 7 5.8	2.130	3.087	5.2	21.0
2 1	8 46.71	+ 7 9.8	2.097	3.071	3.3	20.9
2 11	8 37.05	+ 7 21.7	2.093	3.054	5.1	21.0
2 21	8 28.25	+ 7 38.6	2.120	3.038	8.3	21.1
3 2	8 21.12	+ 7 57.8	2.172	3.020	11.5	21.3

161224 2002 XP_{44} 1 30.4 93.°88 1.°8/31.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.05	+12 10.9	2.429	3.178	13.2	20.1
1 2	9 11.78	+11 51.8	2.352	3.199	10.5	19.9
1 12	9 4.58	+11 41.2	2.298	3.218	7.3	19.8
1 22	8 56.00	+11 38.0	2.272	3.238	4.0	19.6
2 1	8 46.81	+11 40.3	2.276	3.257	1.8	19.5
2 11	8 37.88	+11 45.9	2.311	3.276	4.2	19.7
2 21	8 30.00	+11 52.6	2.375	3.295	7.4	19.9
3 2	8 23.82	+11 58.4	2.467	3.314	10.3	20.1

59757 1999 ME 1 30.4 202.°15 3.°0/27.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.25	+23 6.7	2.273	3.058	12.9	19.9
1 2	9 11.02	+24 14.1	2.182	3.055	10.1	19.7
1 12	9 4.49	+25 28.0	2.116	3.051	6.9	19.5
1 22	8 56.13	+26 42.8	2.078	3.047	3.8	19.3
2 1	8 46.76	+27 51.7	2.069	3.043	3.4	19.2
2 11	8 37.40	+28 49.0	2.091	3.038	6.3	19.4
2 21	8 29.07	+29 31.3	2.141	3.033	9.6	19.6
3 2	8 22.63	+29 57.5	2.216	3.028	12.6	19.8

218749 2005 UA_{499} 1 30.4 112.°26 4.°5/ 2.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.10	+ 1 24.8	2.108	2.831	15.7	21.2
1 2	9 9.15	+ 1 35.0	2.024	2.844	13.0	21.1
1 12	9 3.08	+ 2 4.9	1.961	2.856	9.9	20.9
1 22	8 55.41	+ 2 54.1	1.923	2.868	6.7	20.7
2 1	8 46.92	+ 3 59.7	1.913	2.880	4.6	20.6
2 11	8 38.57	+ 5 16.7	1.932	2.891	5.6	20.7
2 21	8 31.27	+ 6 38.8	1.980	2.902	8.5	20.9
3 2	8 25.75	+ 7 59.9	2.054	2.913	11.6	21.1

268550 2006 AV_{89} 1 30.4 22.°45 0.°8/30.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.78	+13 13.8	1.867	2.646	15.5	20.8
1 2	9 9.33	+13 34.0	1.781	2.647	12.3	20.6
1 12	9 3.43	+14 7.3	1.718	2.649	8.5	20.4
1 22	8 55.65	+14 50.9	1.679	2.652	4.2	20.1
2 1	8 46.87	+15 40.2	1.669	2.654	1.0	19.9
2 11	8 38.21	+16 29.6	1.688	2.656	5.1	20.2
2 21	8 30.74	+17 14.5	1.734	2.659	9.3	20.4
3 2	8 25.34	+17 51.3	1.805	2.662	13.0	20.7

163802 2003 QG_{74} 1 30.4 73.°30 2.°8/31.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.40	+ 9 54.3	1.556	2.331	18.3	20.3
1 2	9 12.47	+ 9 48.5	1.483	2.343	14.7	20.1
1 12	9 5.68	+ 9 59.3	1.430	2.355	10.4	19.9
1 22	8 56.71	+10 25.1	1.401	2.367	5.8	19.7
2 1	8 46.67	+11 2.3	1.398	2.379	2.8	19.5
2 11	8 36.92	+11 45.1	1.423	2.392	5.9	19.7
2 21	8 28.71	+12 28.1	1.475	2.404	10.3	20.0
3 2	8 23.00	+13 6.7	1.551	2.416	14.3	20.3

58355 1995 FN 1 30.4 279.°30 7.°2/25.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 21.58	+34 57.8	1.907	2.699	14.8	18.8
1 2	9 16.93	+35 58.6	1.812	2.679	12.1	18.6
1 12	9 9.02	+36 57.3	1.740	2.658	9.4	18.3
1 22	8 58.44	+37 45.1	1.692	2.637	7.5	18.2
2 1	8 46.30	+38 13.1	1.673	2.617	7.7	18.2
2 11	8 34.19	+38 15.6	1.680	2.596	10.1	18.2
2 21	8 23.64	+37 51.9	1.712	2.574	13.2	18.4
3 2	8 15.87	+37 5.5	1.766	2.553	16.3	18.5

66645 1999 RN_{232} 1 30.4 68.°09 0.°3/30.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.94	+11 35.7	1.909	2.677	15.6	18.7
1 2	9 10.72	+12 44.0	1.847	2.707	12.2	18.5
1 12	9 4.16	+14 7.6	1.807	2.737	8.2	18.3
1 22	8 55.90	+15 41.3	1.794	2.767	3.9	18.1
2 1	8 46.85	+17 17.8	1.812	2.796	0.7	17.9
2 11	8 38.10	+18 49.6	1.859	2.826	5.0	18.3
2 21	8 30.65	+20 10.7	1.936	2.855	8.9	18.6
3 2	8 25.24	+21 17.6	2.038	2.883	12.3	18.9

141864 2002 PC_{28} 1 30.4 242.°37 0.°6/30.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.98	+13 49.5	1.966	2.737	15.1	21.2
1 2	9 11.90	+14 9.8	1.862	2.724	12.1	21.0
1 12	9 5.27	+14 42.9	1.780	2.710	8.3	20.7
1 22	8 56.59	+15 25.8	1.724	2.696	4.1	20.4
2 1	8 46.68	+16 14.3	1.697	2.682	0.8	20.1
2 11	8 36.70	+17 2.9	1.700	2.667	5.3	20.4
2 21	8 27.80	+17 46.7	1.731	2.652	9.6	20.6
3 2	8 20.98	+18 22.5	1.787	2.636	13.5	20.8

395402 2011 SP_{121} 1 30.4 211.°82 2.°4/31.9 14 C

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.98	+ 8 41.3	2.143	2.885	14.9	23.2
1 2	9 13.17	+ 8 50.6	2.036	2.877	12.1	23.0
1 12	9 5.97	+ 9 14.4	1.951	2.867	8.7	22.7
1 22	8 56.86	+ 9 51.5	1.893	2.857	5.0	22.5
2 1	8 46.63	+10 39.0	1.865	2.845	2.4	22.3
2 11	8 36.33	+11 32.1	1.867	2.832	5.0	22.4
2 21	8 27.03	+12 25.9	1.898	2.819	8.9	22.6
3 2	8 19.62	+13 16.3	1.956	2.804	12.6	22.8

432113 2009 BY_{10} 1 30.4 6.°52 2.°6/28.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 9.54	+19 48.9	1.731	2.537	15.5	20.0
1 2	9 7.14	+21 0.6	1.654	2.538	12.0	19.7
1 12	9 2.15	+22 23.8	1.598	2.540	8.0	19.5
1 22	8 55.12	+23 51.8	1.569	2.543	4.0	19.3
2 1	8 46.98	+25 16.1	1.568	2.547	3.1	19.2
2 11	8 38.97	+26 29.0	1.594	2.551	6.8	19.5
2 21	8 32.25	+27 25.3	1.647	2.556	10.8	19.7
3 2	8 27.74	+28 3.0	1.723	2.563	14.4	19.9

490289 2008 YS_{125} 1 30.4 107.°81 1.°8/29.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.02	+18 21.0	1.678	2.467	16.6	21.6
1 2	9 13.68	+19 19.5	1.607	2.482	12.9	21.4
1 12	9 6.49	+20 29.5	1.559	2.496	8.6	21.1
1 22	8 57.10	+21 44.5	1.536	2.510	4.0	20.9
2 1	8 46.62	+22 56.5	1.542	2.524	2.3	20.8
2 11	8 36.41	+23 58.0	1.577	2.537	6.5	21.1
2 21	8 27.74	+24 44.7	1.639	2.550	10.8	21.4
3 2	8 21.57	+25 14.9	1.724	2.563	14.4	21.6

492416 2014 KG_{89} 1 30.4 188.°54 1.°2/29.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.33	+17 27.2	1.960	2.736	15.0	22.4
1 2	9 13.70	+18 15.3	1.869	2.736	11.8	22.2
1 12	9 6.44	+19 14.8	1.800	2.734	7.9	21.9
1 22	8 57.10	+20 20.5	1.759	2.733	3.7	21.7
2 1	8 46.61	+21 26.1	1.747	2.730	1.6	21.5
2 11	8 36.15	+22 25.0	1.765	2.726	5.8	21.8
2 21	8 26.91	+23 12.6	1.811	2.722	9.9	22.0
3 2	8 19.86	+23 46.7	1.883	2.717	13.6	22.2

416039 2002 EX_{103} 1 30.4 336.°51 6.°9/26.1 16

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 9.95	+28 21.4	1.370	2.200	17.5	20.3
1 2	9 8.65	+29 45.6	1.284	2.179	14.0	20.0
1 12	9 3.92	+31 17.3	1.219	2.159	10.2	19.8
1 22	8 56.23	+32 46.0	1.178	2.141	7.3	19.5
2 1	8 46.76	+33 59.4	1.161	2.124	7.7	19.5
2 11	8 37.23	+34 47.6	1.169	2.108	11.1	19.6
2 21	8 29.40	+35 6.3	1.199	2.094	15.3	19.8
3 2	8 24.68	+34 56.3	1.249	2.081	19.2	20.0

176745 2002 RN_{94} 1 30.4 82.°18 1.°3/31.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.11	+11 33.7	1.761	2.530	16.7	20.9
1 2	9 12.58	+11 56.0	1.695	2.555	13.2	20.8
1 12	9 5.51	+12 33.0	1.651	2.579	9.1	20.6
1 22	8 56.56	+13 21.3	1.633	2.603	4.6	20.3
2 1	8 46.76	+14 15.7	1.643	2.627	1.4	20.2
2 11	8 37.33	+15 10.3	1.682	2.650	5.2	20.5
2 21	8 29.33	+16 0.0	1.749	2.673	9.3	20.8
3 2	8 23.59	+16 41.4	1.841	2.696	12.9	21.0

321130 2008 UT_{86} 1 30.4 7.°70 2.°4/29.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.94	+20 21.9	1.217	2.038	19.8	20.6
1 2	9 12.42	+20 54.3	1.146	2.038	15.5	20.3
1 12	9 6.28	+21 38.2	1.095	2.039	10.5	20.0
1 22	8 57.23	+22 27.0	1.065	2.041	5.1	19.7
2 1	8 46.64	+23 11.7	1.061	2.044	3.0	19.6
2 11	8 36.35	+23 44.5	1.082	2.047	8.0	19.9
2 21	8 28.06	+24 1.0	1.127	2.051	13.3	20.2
3 2	8 22.99	+24 0.7	1.192	2.056	17.8	20.5

253056 2002 TG_{48} 1 30.4 46.°48 6.°7/ 3.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.41	+ 0 51.4	1.499	2.247	20.0	19.9
1 2	9 10.14	+ 0 19.8	1.433	2.264	16.7	19.7
1 12	9 4.11	+ 0 12.4	1.384	2.282	13.0	19.6
1 22	8 56.00	+ 0 30.7	1.358	2.300	9.2	19.4
2 1	8 46.89	+ 1 13.1	1.357	2.319	6.8	19.3
2 11	8 38.10	+ 2 14.1	1.381	2.338	7.7	19.4
2 21	8 30.82	+ 3 25.9	1.431	2.357	10.9	19.6
3 2	8 25.95	+ 4 40.5	1.505	2.377	14.3	19.9

168261 Puglia 1 30.4 288.°53 2.°1/ 1.1 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 10.56	+ 8 13.1	2.274	3.027	13.9	20.3
1 2	9 7.19	+ 8 38.7	2.177	3.024	11.2	20.1
1 12	9 1.82	+ 9 19.3	2.101	3.020	8.0	19.9
1 22	8 54.89	+10 13.2	2.052	3.017	4.5	19.7
2 1	8 47.10	+11 16.9	2.032	3.013	2.1	19.5
2 11	8 39.33	+12 25.3	2.042	3.010	4.5	19.6
2 21	8 32.45	+13 33.3	2.081	3.007	8.0	19.8
3 2	8 27.19	+14 36.4	2.147	3.003	11.3	20.0

125460 2001 WS_5 1 30.4 30.°72 2.°0/29.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.12	+19 53.1	1.148	1.971	20.6	19.4
1 2	9 13.30	+20 16.9	1.089	1.982	16.1	19.1
1 12	9 6.77	+20 52.0	1.049	1.993	10.8	18.9
1 22	8 57.38	+21 31.8	1.031	2.006	5.1	18.6
2 1	8 46.63	+22 7.8	1.037	2.020	2.5	18.5
2 11	8 36.43	+22 32.8	1.068	2.035	7.8	18.8
2 21	8 28.42	+22 43.4	1.123	2.050	13.0	19.2
3 2	8 23.70	+22 39.3	1.199	2.066	17.5	19.5

227989 2007 JP_7 1 30.4 196.°14 0.°6/29.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.61	+17 39.1	2.122	2.901	13.9	21.2
1 2	9 10.52	+18 3.5	2.032	2.900	10.9	21.0
1 12	9 4.14	+18 36.4	1.965	2.899	7.4	20.8
1 22	8 55.99	+19 14.3	1.924	2.898	3.4	20.6
2 1	8 46.90	+19 52.6	1.913	2.897	1.1	20.4
2 11	8 37.91	+20 26.8	1.932	2.896	5.0	20.7
2 21	8 30.01	+20 53.5	1.978	2.895	8.9	20.9
3 2	8 24.04	+21 11.0	2.050	2.893	12.3	21.1

15829 1995 BA_1 1 30.4 54.°84 1.°9/29.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.11	+16 18.0	1.540	2.338	17.4	17.6
1 2	9 10.86	+17 44.4	1.475	2.355	13.5	17.4
1 12	9 4.71	+19 26.6	1.433	2.373	9.0	17.2
1 22	8 56.34	+21 16.6	1.416	2.391	4.2	16.9
2 1	8 46.85	+23 4.0	1.427	2.409	2.4	16.9
2 11	8 37.64	+24 39.1	1.467	2.428	6.8	17.2
2 21	8 29.99	+25 55.3	1.534	2.447	11.2	17.5
3 2	8 24.87	+26 50.4	1.623	2.466	15.0	17.7

175450 Phillipklu 1 30.4 205.°76 1.°8/29.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.08	+19 1.0	1.875	2.662	15.2	21.2
1 2	9 12.10	+19 49.7	1.786	2.659	11.9	21.0
1 12	9 5.46	+20 48.8	1.719	2.657	8.0	20.8
1 22	8 56.71	+21 53.0	1.679	2.654	3.8	20.5
2 1	8 46.78	+22 55.5	1.668	2.650	2.2	20.4
2 11	8 36.92	+23 49.7	1.686	2.647	6.2	20.6
2 21	8 28.30	+24 31.3	1.732	2.643	10.3	20.9
3 2	8 21.93	+24 58.3	1.802	2.639	14.0	21.1

161896 2007 DE_{34} 1 30.4 29.°07 0.°9/29.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.19	+18 20.5	1.833	2.621	15.4	20.9
1 2	9 11.33	+18 42.3	1.749	2.623	12.1	20.6
1 12	9 4.87	+19 13.1	1.688	2.624	8.1	20.4
1 22	8 56.40	+19 48.8	1.652	2.626	3.8	20.1
2 1	8 46.88	+20 24.1	1.644	2.628	1.3	20.0
2 11	8 37.53	+20 54.2	1.666	2.630	5.7	20.3
2 21	8 29.49	+21 15.5	1.714	2.633	9.9	20.5
3 2	8 23.67	+21 26.4	1.786	2.635	13.5	20.7

119131 2001 PN 1 30.4 252.°34 1.°6/29.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 20.34	+20 10.1	1.571	2.365	17.4	20.2
1 2	9 16.07	+20 24.9	1.478	2.354	13.8	19.9
1 12	9 8.53	+20 48.3	1.405	2.343	9.4	19.6
1 22	8 58.29	+21 15.3	1.357	2.331	4.4	19.3
2 1	8 46.50	+21 39.8	1.336	2.319	2.0	19.1
2 11	8 34.73	+21 56.0	1.343	2.307	6.9	19.4
2 21	8 24.54	+22 0.8	1.376	2.295	11.9	19.6
3 2	8 17.15	+21 53.5	1.433	2.282	16.2	19.8

26842 Hefele 1 30.4 37.°29 3.°5/ 1.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.80	+ 6 56.4	1.881	2.640	16.2	18.0
1 2	9 8.40	+ 6 46.6	1.806	2.653	13.1	17.8
1 12	9 2.72	+ 6 52.9	1.751	2.666	9.6	17.6
1 22	8 55.33	+ 7 14.5	1.721	2.680	5.9	17.4
2 1	8 47.11	+ 7 49.0	1.718	2.694	3.6	17.3
2 11	8 39.11	+ 8 31.9	1.743	2.708	5.4	17.4
2 21	8 32.29	+ 9 18.3	1.795	2.723	8.9	17.6
3 2	8 27.43	+10 3.4	1.873	2.738	12.2	17.9

235396 2003 WH_{155} 1 30.4 57.°65 1.°6/29.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.67	+18 30.2	2.056	2.842	14.0	20.2
1 2	9 9.10	+19 24.6	1.975	2.848	10.9	20.0
1 12	9 3.24	+20 28.7	1.918	2.855	7.3	19.8
1 22	8 55.61	+21 37.4	1.887	2.861	3.4	19.6
2 1	8 47.06	+22 44.6	1.886	2.868	1.9	19.5
2 11	8 38.64	+23 44.2	1.914	2.874	5.5	19.8
2 21	8 31.34	+24 32.1	1.970	2.881	9.3	20.0
3 2	8 25.97	+25 6.4	2.051	2.888	12.5	20.2

500323 2012 RE_{43} 1 30.4 39.°81 1.°2/29.8 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.55	+20 53.9	2.063	2.846	14.1	21.1
1 2	9 12.01	+20 56.4	1.981	2.852	11.0	20.9
1 12	9 5.11	+21 3.5	1.922	2.858	7.4	20.7
1 22	8 56.44	+21 11.8	1.890	2.864	3.5	20.5
2 1	8 46.92	+21 17.6	1.887	2.870	1.5	20.4
2 11	8 37.64	+21 17.7	1.913	2.877	5.2	20.6
2 21	8 29.62	+21 10.7	1.968	2.884	9.0	20.9
3 2	8 23.65	+20 56.2	2.047	2.891	12.3	21.1

91438 1999 RA_{12} 1 30.4 59.°35 6.°4/28.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 30.30	+36 2.5	1.851	2.629	15.7	18.8
1 2	9 23.10	+36 13.4	1.782	2.641	12.7	18.6
1 12	9 12.66	+36 16.2	1.736	2.653	9.5	18.4
1 22	8 59.91	+36 3.4	1.715	2.665	6.9	18.3
2 1	8 46.29	+35 29.7	1.723	2.677	6.6	18.3
2 11	8 33.44	+34 34.0	1.760	2.689	8.8	18.5
2 21	8 22.72	+33 19.6	1.824	2.701	11.8	18.7
3 2	8 15.02	+31 52.2	1.913	2.714	14.7	18.9

496543 2014 WM_{261} 1 30.4 116.°35 0.°3/30.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.35	+15 49.4	2.035	2.810	14.5	21.9
1 2	9 11.11	+16 23.3	1.955	2.821	11.4	21.7
1 12	9 4.54	+17 7.7	1.898	2.831	7.7	21.5
1 22	8 56.20	+17 58.8	1.867	2.841	3.5	21.3
2 1	8 46.96	+18 51.4	1.866	2.851	0.8	21.1
2 11	8 37.91	+19 40.2	1.895	2.860	5.0	21.4
2 21	8 30.03	+20 21.1	1.951	2.869	8.9	21.6
3 2	8 24.14	+20 52.0	2.034	2.878	12.3	21.9

163610 2002 TX_{260} 1 30.4 48.°36 10.°7/21.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 20.13	+44 23.7	1.954	2.738	14.8	18.8
1 2	9 16.04	+46 39.2	1.914	2.755	12.7	18.7
1 12	9 8.51	+48 43.5	1.898	2.774	11.2	18.6
1 22	8 58.25	+50 25.3	1.907	2.792	10.7	18.6
2 1	8 46.57	+51 35.3	1.941	2.811	11.4	18.7
2 11	8 35.21	+52 9.9	1.999	2.830	12.9	18.8
2 21	8 25.76	+52 10.7	2.079	2.849	14.6	19.0
3 2	8 19.36	+51 43.2	2.176	2.868	16.3	19.2

107306 2001 CX_7 1 30.4 1.°91 4.°2/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.70	+25 21.4	1.391	2.205	18.1	19.6
1 2	9 14.30	+25 54.6	1.316	2.204	14.3	19.3
1 12	9 7.41	+26 32.5	1.263	2.203	9.9	19.1
1 22	8 57.77	+27 7.6	1.232	2.203	5.5	18.8
2 1	8 46.69	+27 31.6	1.228	2.204	4.6	18.8
2 11	8 35.93	+27 38.7	1.250	2.206	8.4	19.0
2 21	8 27.09	+27 27.2	1.296	2.207	13.0	19.2
3 2	8 21.33	+26 58.9	1.363	2.210	17.1	19.5

317535 2002 TR_{312} 1 30.4 4.°46 4.°2/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.14	+22 15.6	1.379	2.199	17.9	20.3
1 2	9 9.97	+23 31.9	1.306	2.198	14.0	20.1
1 12	9 4.53	+24 59.8	1.255	2.199	9.5	19.8
1 22	8 56.45	+26 30.3	1.227	2.200	5.3	19.6
2 1	8 46.93	+27 52.6	1.226	2.202	4.7	19.6
2 11	8 37.59	+28 57.1	1.251	2.205	8.7	19.8
2 21	8 29.97	+29 38.7	1.299	2.208	13.2	20.1
3 2	8 25.22	+29 56.9	1.369	2.213	17.2	20.3

434323 2004 HD_{10} 1 30.4 264.°96 10.°7/ 8.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.65	−19 25.3	2.744	3.312	15.3	21.1
1 2	9 7.10	−20 30.7	2.640	3.300	14.2	21.0
1 12	9 1.72	−21 15.3	2.552	3.288	12.9	20.9
1 22	8 54.90	−21 35.0	2.484	3.276	11.8	20.8
2 1	8 47.24	−21 26.8	2.437	3.263	10.9	20.7
2 11	8 39.50	−20 50.7	2.414	3.251	10.7	20.6
2 21	8 32.47	−19 49.3	2.415	3.238	11.2	20.7
3 2	8 26.83	−18 27.9	2.439	3.226	12.3	20.7

338973 2004 FN_{74} 1 30.4 134.°05 3.°3/ 2.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.06	+ 4 49.2	2.565	3.294	13.0	21.3
1 2	9 7.27	+ 4 51.7	2.472	3.299	10.7	21.1
1 12	9 1.72	+ 5 8.0	2.401	3.304	7.9	21.0
1 22	8 54.84	+ 5 37.6	2.357	3.309	5.1	20.8
2 1	8 47.27	+ 6 18.5	2.341	3.313	3.3	20.7
2 11	8 39.78	+ 7 7.3	2.356	3.318	4.5	20.8
2 21	8 33.10	+ 7 59.9	2.400	3.322	7.3	20.9
3 2	8 27.85	+ 8 52.5	2.471	3.326	10.0	21.1

340156 2005 YR_{97} 1 30.4 312.°81 4.°1/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.41	+22 2.8	1.349	2.167	18.4	20.6
1 2	9 12.04	+23 11.2	1.264	2.155	14.5	20.3
1 12	9 6.17	+24 32.7	1.200	2.143	9.9	20.0
1 22	8 57.35	+25 59.1	1.159	2.132	5.4	19.7
2 1	8 46.75	+27 19.0	1.144	2.121	4.7	19.6
2 11	8 36.12	+28 22.2	1.155	2.111	9.0	19.8
2 21	8 27.20	+29 2.5	1.190	2.101	14.0	20.1
3 2	8 21.37	+29 19.1	1.246	2.092	18.4	20.3

467652 2008 SK_{295} 1 30.4 179.°71 3.°5/ 1.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.74	+ 5 19.8	2.705	3.425	12.6	21.8
1 2	9 10.02	+ 5 1.6	2.605	3.427	10.4	21.6
1 12	9 3.52	+ 4 55.1	2.529	3.427	7.8	21.4
1 22	8 55.68	+ 5 0.2	2.479	3.428	5.1	21.3
2 1	8 47.12	+ 5 15.8	2.459	3.428	3.5	21.2
2 11	8 38.61	+ 5 39.7	2.469	3.427	4.7	21.2
2 21	8 30.91	+ 6 8.9	2.509	3.426	7.3	21.4
3 2	8 24.63	+ 6 40.3	2.577	3.424	9.9	21.6

245872 2006 PD_{32} 1 30.4 23.°86 0.°5/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.69	+12 35.5	2.157	2.929	13.9	20.0
1 2	9 7.42	+13 17.5	2.069	2.931	11.0	19.8
1 12	9 2.06	+14 12.8	2.004	2.934	7.5	19.6
1 22	8 55.08	+15 18.1	1.965	2.937	3.6	19.4
2 1	8 47.22	+16 28.5	1.955	2.940	0.7	19.1
2 11	8 39.45	+17 38.3	1.976	2.943	4.6	19.4
2 21	8 32.65	+18 42.2	2.025	2.947	8.4	19.7
3 2	8 27.59	+19 36.7	2.099	2.950	11.7	19.9

403792 2011 SB_{195} 1 30.4 161.°38 3.°6/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.70	+24 48.4	1.848	2.637	15.3	21.6
1 2	9 15.75	+25 35.5	1.768	2.642	12.0	21.4
1 12	9 7.94	+26 27.2	1.711	2.646	8.2	21.2
1 22	8 57.90	+27 16.9	1.681	2.650	4.6	20.9
2 1	8 46.70	+27 57.5	1.679	2.653	4.0	20.9
2 11	8 35.72	+28 23.4	1.706	2.656	7.2	21.1
2 21	8 26.24	+28 32.6	1.760	2.658	11.0	21.3
3 2	8 19.24	+28 25.9	1.838	2.660	14.4	21.6

523611 2005 UY_5 1 30.4 154.°43 3.°1/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 23.53	+24 27.2	2.304	3.073	13.2	23.6
1 2	9 17.31	+25 23.3	2.225	3.087	10.3	23.4
1 12	9 8.64	+26 23.2	2.170	3.100	7.1	23.3
1 22	8 58.13	+27 20.9	2.143	3.111	4.0	23.1
2 1	8 46.67	+28 10.3	2.148	3.121	3.4	23.1
2 11	8 35.42	+28 46.5	2.184	3.130	6.2	23.3
2 21	8 25.42	+29 7.6	2.250	3.137	9.4	23.5
3 2	8 17.52	+29 14.0	2.341	3.144	12.3	23.7

16246 Cantor 1 30.4 121.°36 0.°1/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.82	+16 11.5	2.663	3.426	11.8	19.8
1 2	9 9.31	+16 32.7	2.580	3.439	9.2	19.7
1 12	9 3.02	+17 1.1	2.522	3.453	6.2	19.5
1 22	8 55.43	+17 33.9	2.493	3.465	2.9	19.3
2 1	8 47.19	+18 7.8	2.493	3.478	0.6	19.1
2 11	8 39.12	+18 39.4	2.525	3.490	4.0	19.4
2 21	8 31.93	+19 6.2	2.586	3.502	7.1	19.6
3 2	8 26.25	+19 26.5	2.674	3.513	9.9	19.8

433067 2012 TY_{27} 1 30.4 118.°70 1.°7/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.63	+22 3.0	2.675	3.450	11.4	21.9
1 2	9 9.99	+22 33.9	2.596	3.463	8.9	21.8
1 12	9 3.50	+23 8.6	2.542	3.475	5.9	21.6
1 22	8 55.65	+23 43.5	2.516	3.488	3.0	21.4
2 1	8 47.15	+24 14.6	2.520	3.500	2.0	21.4
2 11	8 38.83	+24 38.7	2.555	3.512	4.7	21.6
2 21	8 31.45	+24 54.0	2.620	3.523	7.6	21.8
3 2	8 25.65	+24 59.8	2.710	3.534	10.2	22.0

19591 Michaelklein 1 30.4 132.°64 1.°9/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.44	+20 20.3	2.143	2.925	13.7	19.2
1 2	9 11.18	+21 6.2	2.061	2.932	10.6	19.0
1 12	9 4.60	+21 59.6	2.003	2.939	7.1	18.8
1 22	8 56.28	+22 55.3	1.972	2.946	3.5	18.6
2 1	8 47.04	+23 47.8	1.971	2.952	2.2	18.5
2 11	8 37.95	+24 31.9	2.000	2.958	5.6	18.7
2 21	8 30.00	+25 4.4	2.057	2.964	9.1	18.9
3 2	8 24.00	+25 24.2	2.138	2.969	12.3	19.2

459524 2013 ES_{116} 1 30.4 326.°62 2.°6/29.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.65	+20 27.4	1.374	2.187	18.4	21.8
1 2	9 12.02	+21 7.3	1.290	2.178	14.5	21.6
1 12	9 6.02	+21 59.1	1.227	2.169	9.8	21.3
1 22	8 57.23	+22 56.1	1.186	2.161	4.8	21.0
2 1	8 46.83	+23 49.9	1.172	2.153	3.1	20.8
2 11	8 36.50	+24 32.3	1.184	2.146	7.8	21.1
2 21	8 27.86	+24 58.2	1.220	2.140	12.9	21.3
3 2	8 22.19	+25 6.4	1.277	2.134	17.4	21.6

498939 2009 BZ_{47} 1 30.4 77.°90 0.°3/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.14	+18 23.5	2.289	3.061	13.2	21.4
1 2	9 11.42	+18 21.5	2.205	3.070	10.3	21.2
1 12	9 4.59	+18 25.1	2.145	3.078	7.0	21.0
1 22	8 56.20	+18 31.8	2.113	3.086	3.2	20.8
2 1	8 47.06	+18 38.4	2.110	3.095	0.7	20.6
2 11	8 38.14	+18 42.3	2.138	3.103	4.5	20.9
2 21	8 30.33	+18 41.7	2.194	3.112	8.1	21.1
3 2	8 24.32	+18 35.6	2.276	3.120	11.2	21.4

322820 2001 SJ_{162} 1 30.4 108.°57 1.°9/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.92	+10 29.0	2.137	2.889	14.7	21.4
1 2	9 12.06	+10 36.7	2.062	2.909	11.7	21.2
1 12	9 5.03	+10 57.0	2.009	2.929	8.2	21.0
1 22	8 56.41	+11 27.6	1.983	2.949	4.4	20.8
2 1	8 47.03	+12 5.2	1.986	2.968	1.9	20.7
2 11	8 37.91	+12 45.5	2.019	2.986	4.6	20.9
2 21	8 29.94	+13 24.7	2.082	3.004	8.2	21.2
3 2	8 23.86	+13 59.5	2.170	3.021	11.4	21.4

418248 2008 DL_{67} 1 30.4 102.°60 1.°4/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.05	+20 48.6	1.805	2.592	15.7	21.1
1 2	9 14.42	+20 55.0	1.720	2.593	12.3	20.9
1 12	9 7.02	+21 7.1	1.658	2.594	8.3	20.6
1 22	8 57.47	+21 20.9	1.621	2.595	3.9	20.4
2 1	8 46.83	+21 31.7	1.613	2.596	1.7	20.2
2 11	8 36.41	+21 35.5	1.633	2.597	5.9	20.5
2 21	8 27.45	+21 30.4	1.681	2.598	10.2	20.8
3 2	8 20.88	+21 16.2	1.754	2.599	13.9	21.0

182645 2001 UL_{162} 1 30.4 107.°29 4.°5/ 2.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.17	+ 3 18.6	2.098	2.825	15.6	20.8
1 2	9 10.77	+ 3 5.2	2.018	2.842	12.9	20.7
1 12	9 4.22	+ 3 8.8	1.960	2.857	9.7	20.5
1 22	8 56.06	+ 3 29.3	1.926	2.873	6.5	20.3
2 1	8 47.11	+ 4 4.7	1.921	2.888	4.6	20.2
2 11	8 38.35	+ 4 51.3	1.945	2.903	5.7	20.3
2 21	8 30.70	+ 5 44.2	1.997	2.917	8.6	20.5
3 2	8 24.89	+ 6 38.3	2.075	2.931	11.6	20.7

347492 1996 AT_{13} 1 30.4 24.°99 2.°8/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.50	+20 8.3	1.258	2.076	19.5	21.0
1 2	9 12.78	+20 59.8	1.189	2.080	15.3	20.7
1 12	9 6.52	+22 4.1	1.140	2.084	10.3	20.4
1 22	8 57.43	+23 13.5	1.114	2.089	5.0	20.2
2 1	8 46.84	+24 18.0	1.114	2.095	3.4	20.1
2 11	8 36.54	+25 8.5	1.139	2.101	8.1	20.4
2 21	8 28.20	+25 40.1	1.188	2.108	13.2	20.7
3 2	8 23.00	+25 52.1	1.258	2.115	17.6	20.9

252977 2002 QF_{23} 1 30.4 198.°08 0.°4/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.59	+14 14.1	2.093	2.859	14.5	22.3
1 2	9 12.16	+14 37.1	1.997	2.857	11.5	22.1
1 12	9 5.35	+15 11.5	1.924	2.854	7.9	21.9
1 22	8 56.68	+15 54.4	1.878	2.850	3.8	21.6
2 1	8 46.98	+16 41.3	1.861	2.845	0.7	21.3
2 11	8 37.31	+17 27.3	1.874	2.841	4.9	21.6
2 21	8 28.73	+18 8.0	1.916	2.835	8.9	21.9
3 2	8 22.10	+18 40.7	1.983	2.829	12.5	22.1

468079 2013 TH_{29} 1 30.4 78.°71 5.°3/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.16	+31 46.2	2.145	2.935	13.4	21.5
1 2	9 13.43	+32 40.9	2.077	2.946	10.7	21.3
1 12	9 6.16	+33 33.9	2.032	2.957	7.8	21.1
1 22	8 57.00	+34 18.5	2.014	2.968	5.7	21.0
2 1	8 46.94	+34 48.5	2.025	2.979	5.7	21.1
2 11	8 37.18	+35 0.2	2.064	2.990	7.8	21.2
2 21	8 28.82	+34 53.0	2.129	3.001	10.6	21.4
3 2	8 22.68	+34 29.1	2.218	3.012	13.2	21.6

127768 2003 FS_{44} 1 30.4 223.°02 1.°2/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.27	+12 13.5	1.896	2.661	15.8	20.7
1 2	9 13.03	+12 33.2	1.795	2.652	12.7	20.4
1 12	9 6.16	+13 7.2	1.715	2.643	8.8	20.2
1 22	8 57.15	+13 53.1	1.662	2.632	4.5	19.9
2 1	8 46.89	+14 46.4	1.637	2.621	1.2	19.6
2 11	8 36.56	+15 41.4	1.642	2.610	5.3	19.9
2 21	8 27.38	+16 32.6	1.675	2.597	9.8	20.1
3 2	8 20.35	+17 16.2	1.733	2.585	13.8	20.3

370808 2004 TT_{241} 1 30.4 37.°55 2.°5/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.08	+23 20.8	1.587	2.389	16.8	20.1
1 2	9 13.82	+23 34.6	1.524	2.405	13.1	19.9
1 12	9 6.61	+23 52.6	1.482	2.422	8.8	19.7
1 22	8 57.23	+24 9.4	1.466	2.439	4.4	19.5
2 1	8 46.91	+24 19.5	1.477	2.457	2.9	19.4
2 11	8 37.09	+24 19.0	1.515	2.476	6.7	19.7
2 21	8 29.01	+24 6.7	1.580	2.495	10.8	20.0
3 2	8 23.54	+23 43.6	1.667	2.514	14.4	20.2

57935 2002 JL_{17} 1 30.4 172.°28 0.°9/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.40	+18 53.7	2.592	3.360	11.9	20.5
1 2	9 10.71	+19 19.2	2.500	3.363	9.3	20.3
1 12	9 4.08	+19 50.8	2.433	3.366	6.3	20.1
1 22	8 55.99	+20 25.3	2.394	3.368	2.9	19.9
2 1	8 47.14	+20 58.7	2.386	3.369	1.2	19.8
2 11	8 38.39	+21 27.5	2.408	3.370	4.4	20.0
2 21	8 30.55	+21 49.4	2.460	3.371	7.7	20.2
3 2	8 24.31	+22 2.9	2.539	3.371	10.6	20.4

377060 2002 TT_{298} 1 30.4 78.°74 4.°1/ 2.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.04	+ 3 58.7	2.306	3.032	14.4	21.4
1 2	9 9.62	+ 3 43.8	2.233	3.056	11.8	21.3
1 12	9 3.29	+ 3 43.8	2.182	3.080	8.9	21.1
1 22	8 55.58	+ 3 58.4	2.157	3.104	5.9	21.0
2 1	8 47.24	+ 4 25.8	2.160	3.127	4.1	20.9
2 11	8 39.13	+ 5 2.8	2.193	3.151	5.2	21.0
2 21	8 32.04	+ 5 45.3	2.254	3.174	7.8	21.2
3 2	8 26.61	+ 6 29.1	2.342	3.197	10.5	21.4

30297 2000 HO_{77} 1 30.4 244.°36 6.°9/25.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.52	+32 22.5	1.977	2.771	14.2	18.3
1 2	9 14.42	+34 0.5	1.891	2.761	11.5	18.1
1 12	9 7.35	+35 40.7	1.829	2.750	8.8	17.9
1 22	8 57.80	+37 13.3	1.793	2.739	7.0	17.8
2 1	8 46.78	+38 28.8	1.786	2.728	7.5	17.8
2 11	8 35.69	+39 19.9	1.806	2.716	9.9	17.9
2 21	8 25.95	+39 44.4	1.852	2.704	12.9	18.1
3 2	8 18.73	+39 43.8	1.919	2.692	15.7	18.2

381641 2008 YJ_{113} 1 30.4 46.°59 2.°1/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.65	+20 43.9	2.225	3.012	13.1	20.9
1 2	9 9.00	+21 38.2	2.140	3.013	10.2	20.7
1 12	9 3.16	+22 40.0	2.078	3.015	6.8	20.5
1 22	8 55.64	+23 44.3	2.044	3.017	3.4	20.3
2 1	8 47.21	+24 45.3	2.039	3.019	2.5	20.2
2 11	8 38.87	+25 37.7	2.065	3.021	5.6	20.4
2 21	8 31.56	+26 17.9	2.118	3.023	9.0	20.6
3 2	8 26.06	+26 44.5	2.196	3.025	12.1	20.8

519927 2013 RD_{105} 1 30.4 181.°22 1.°3/31.3 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.88	+12 3.2	2.261	3.021	13.7	22.2
1 2	9 9.80	+12 16.6	2.168	3.022	10.9	22.0
1 12	9 3.62	+12 41.5	2.097	3.022	7.6	21.8
1 22	8 55.84	+13 15.6	2.053	3.022	3.9	21.5
2 1	8 47.18	+13 55.7	2.038	3.022	1.3	21.3
2 11	8 38.60	+14 37.6	2.053	3.021	4.4	21.6
2 21	8 30.99	+15 17.4	2.098	3.020	8.1	21.8
3 2	8 25.10	+15 52.1	2.168	3.019	11.4	22.0

373844 2003 FE_{79} 1 30.4 230.°70 3.°7/ 2.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.05	+ 4 44.5	2.453	3.178	13.7	21.4
1 2	9 9.84	+ 4 36.3	2.342	3.166	11.3	21.2
1 12	9 3.64	+ 4 42.0	2.253	3.154	8.5	21.0
1 22	8 55.86	+ 5 1.8	2.190	3.141	5.6	20.8
2 1	8 47.17	+ 5 34.3	2.157	3.127	3.7	20.7
2 11	8 38.42	+ 6 16.5	2.153	3.113	5.1	20.8
2 21	8 30.47	+ 7 4.4	2.178	3.098	8.0	20.9
3 2	8 24.07	+ 7 53.8	2.230	3.083	11.1	21.1

61664 2000 QE_{116} 1 30.4 117.°71 3.°0/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.74	+24 6.3	1.953	2.743	14.5	19.3
1 2	9 13.26	+24 40.8	1.872	2.747	11.4	19.1
1 12	9 6.16	+25 19.4	1.815	2.751	7.7	18.8
1 22	8 57.07	+25 56.8	1.784	2.754	4.2	18.6
2 1	8 46.96	+26 27.0	1.781	2.758	3.3	18.6
2 11	8 37.07	+26 45.5	1.808	2.762	6.5	18.8
2 21	8 28.53	+26 50.3	1.861	2.765	10.1	19.0
3 2	8 22.25	+26 41.7	1.939	2.768	13.5	19.2

64439 2001 VA_{23} 1 30.4 230.°03 1.°4/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.19	+19 44.4	1.921	2.708	14.9	20.0
1 2	9 12.10	+20 11.2	1.833	2.706	11.7	19.8
1 12	9 5.43	+20 45.9	1.767	2.704	7.9	19.6
1 22	8 56.76	+21 24.0	1.728	2.702	3.7	19.3
2 1	8 47.01	+22 0.3	1.717	2.700	1.8	19.2
2 11	8 37.38	+22 29.6	1.735	2.697	5.8	19.4
2 21	8 29.00	+22 48.8	1.780	2.695	9.8	19.6
3 2	8 22.79	+22 56.8	1.850	2.693	13.4	19.9

369373 2009 UK_{116} 1 30.4 115.°50 2.°3/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.56	+22 47.2	1.997	2.784	14.4	21.4
1 2	9 13.02	+23 11.5	1.914	2.787	11.2	21.2
1 12	9 5.96	+23 40.6	1.855	2.791	7.6	21.0
1 22	8 56.96	+24 9.4	1.821	2.794	3.8	20.8
2 1	8 46.99	+24 33.0	1.817	2.797	2.6	20.7
2 11	8 37.23	+24 47.1	1.842	2.800	6.0	20.9
2 21	8 28.78	+24 49.8	1.895	2.803	9.7	21.2
3 2	8 22.50	+24 41.1	1.972	2.806	13.1	21.4

393227 2013 GC_{53} 1 30.4 209.°19 0.°9/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.25	+12 56.5	1.708	2.488	16.7	21.1
1 2	9 11.63	+13 18.3	1.621	2.487	13.3	20.9
1 12	9 5.27	+13 55.1	1.554	2.486	9.2	20.6
1 22	8 56.75	+14 43.7	1.513	2.485	4.6	20.4
2 1	8 47.02	+15 39.0	1.499	2.484	1.0	20.1
2 11	8 37.38	+16 34.7	1.514	2.483	5.6	20.4
2 21	8 29.06	+17 25.0	1.556	2.481	10.2	20.7
3 2	8 23.05	+18 6.1	1.622	2.480	14.2	20.9

243520 2010 CH_{44} 1 30.4 336.°84 0.°5/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.62	+16 54.6	2.022	2.806	14.3	20.9
1 2	9 9.17	+17 20.3	1.931	2.802	11.3	20.7
1 12	9 3.39	+17 55.9	1.863	2.799	7.6	20.4
1 22	8 55.79	+18 37.7	1.821	2.796	3.5	20.2
2 1	8 47.21	+19 21.0	1.808	2.793	1.0	20.0
2 11	8 38.71	+20 0.8	1.824	2.790	5.1	20.3
2 21	8 31.30	+20 33.4	1.867	2.787	9.1	20.5
3 2	8 25.84	+20 56.4	1.936	2.785	12.6	20.7

440670 2005 YL_4 1 30.4 51.°84 1.°4/31.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.39	+14 2.5	1.180	1.982	21.5	20.8
1 2	9 16.21	+13 53.2	1.129	2.007	16.9	20.6
1 12	9 8.49	+13 59.6	1.096	2.033	11.6	20.3
1 22	8 58.18	+14 18.4	1.086	2.059	5.7	20.1
2 1	8 46.80	+14 44.0	1.101	2.085	1.6	19.9
2 11	8 36.14	+15 10.2	1.142	2.112	6.6	20.3
2 21	8 27.69	+15 32.1	1.207	2.139	11.8	20.7
3 2	8 22.42	+15 47.0	1.294	2.166	16.2	21.0

47184 1999 TX_{127} 1 30.4 147.°99 0.°3/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.55	+15 8.8	1.679	2.463	16.8	19.4
1 2	9 12.67	+15 23.4	1.594	2.464	13.3	19.1
1 12	9 5.98	+15 50.5	1.531	2.465	9.1	18.9
1 22	8 57.08	+16 26.6	1.492	2.465	4.3	18.6
2 1	8 46.98	+17 6.6	1.481	2.466	0.8	18.3
2 11	8 37.02	+17 44.8	1.499	2.467	5.7	18.7
2 21	8 28.47	+18 16.8	1.543	2.467	10.3	19.0
3 2	8 22.33	+18 39.8	1.612	2.468	14.4	19.2

399957 2006 AQ_{104} 1 30.4 54.°75 1.°0/31.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.84	+11 36.8	1.352	2.146	19.6	21.0
1 2	9 11.82	+12 11.8	1.283	2.157	15.6	20.8
1 12	9 5.63	+13 7.1	1.233	2.167	10.7	20.5
1 22	8 56.96	+14 18.5	1.205	2.178	5.3	20.2
2 1	8 47.00	+15 38.2	1.205	2.189	1.2	20.0
2 11	8 37.32	+16 57.0	1.231	2.201	6.3	20.3
2 21	8 29.34	+18 7.0	1.282	2.212	11.4	20.7
3 2	8 24.15	+19 3.1	1.356	2.224	15.9	21.0

330126 2005 YQ_{57} 1 30.4 133.°27 1.°2/29.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.36	+18 45.7	2.158	2.937	13.7	21.7
1 2	9 11.08	+19 23.6	2.075	2.944	10.7	21.5
1 12	9 4.55	+20 9.5	2.016	2.951	7.2	21.3
1 22	8 56.29	+20 59.2	1.983	2.957	3.3	21.1
2 1	8 47.14	+21 47.5	1.981	2.964	1.6	20.9
2 11	8 38.14	+22 29.5	2.008	2.970	5.2	21.2
2 21	8 30.26	+23 1.8	2.063	2.975	8.8	21.4
3 2	8 24.29	+23 23.1	2.144	2.981	12.1	21.7

430322 2013 YB_{23} 1 30.4 79.°64 4.°0/27.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.52	+27 10.1	2.220	3.010	13.0	21.1
1 2	9 11.22	+28 11.8	2.151	3.024	10.2	20.9
1 12	9 4.62	+29 15.6	2.106	3.039	7.1	20.8
1 22	8 56.31	+30 15.2	2.089	3.053	4.5	20.6
2 1	8 47.15	+31 4.6	2.101	3.067	4.4	20.6
2 11	8 38.22	+31 39.2	2.143	3.081	6.8	20.8
2 21	8 30.50	+31 57.3	2.211	3.095	9.7	21.0
3 2	8 24.76	+31 59.4	2.304	3.109	12.4	21.2

327313 2005 UL_{21} 1 30.4 85.°40 1.°0/31.0 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.93	+13 51.2	1.889	2.662	15.6	21.3
1 2	9 11.73	+13 56.7	1.809	2.672	12.3	21.1
1 12	9 5.07	+14 13.5	1.752	2.682	8.5	20.8
1 22	8 56.55	+14 39.1	1.720	2.691	4.2	20.6
2 1	8 47.10	+15 9.4	1.716	2.701	1.1	20.4
2 11	8 37.87	+15 40.2	1.742	2.710	5.0	20.7
2 21	8 29.92	+16 7.5	1.795	2.720	9.1	21.0
3 2	8 24.08	+16 28.9	1.874	2.729	12.7	21.2

70312 1999 RM_{137} 1 30.4 223.°02 1.°7/31.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.81	+10 39.1	2.117	2.870	14.7	20.2
1 2	9 12.39	+10 52.4	2.010	2.859	11.9	20.0
1 12	9 5.59	+11 19.4	1.926	2.848	8.4	19.8
1 22	8 56.87	+11 58.1	1.869	2.836	4.5	19.5
2 1	8 47.02	+12 45.3	1.841	2.823	1.7	19.3
2 11	8 37.11	+13 36.1	1.842	2.810	4.9	19.5
2 21	8 28.18	+14 25.9	1.873	2.795	8.9	19.7
3 2	8 21.16	+15 10.5	1.930	2.780	12.6	19.9

357381 2003 UH_{14} 1 30.4 189.°21 2.°2/31.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.25	+ 9 51.4	2.137	2.886	14.8	22.1
1 2	9 12.58	+ 9 56.4	2.040	2.885	11.9	21.9
1 12	9 5.60	+10 14.6	1.965	2.884	8.5	21.7
1 22	8 56.82	+10 44.5	1.917	2.882	4.7	21.4
2 1	8 47.05	+11 23.1	1.898	2.879	2.2	21.2
2 11	8 37.32	+12 6.1	1.909	2.876	4.9	21.4
2 21	8 28.63	+12 49.2	1.949	2.871	8.6	21.6
3 2	8 21.84	+13 28.7	2.015	2.866	12.1	21.8

201418 2002 XR_{33} 1 30.4 57.°31 3.°0/ 1.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.97	+ 9 23.0	2.144	2.896	14.6	20.0
1 2	9 10.61	+ 8 54.6	2.061	2.906	11.8	19.8
1 12	9 4.13	+ 8 37.6	2.000	2.916	8.5	19.6
1 22	8 56.06	+ 8 31.5	1.966	2.926	5.1	19.4
2 1	8 47.21	+ 8 34.8	1.960	2.937	3.0	19.3
2 11	8 38.56	+ 8 45.1	1.983	2.947	5.0	19.5
2 21	8 31.00	+ 8 59.5	2.035	2.958	8.3	19.7
3 2	8 25.26	+ 9 14.9	2.112	2.969	11.4	19.9

453796 2011 QC_{73} 1 30.4 99.°71 1.°2/29.8 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 20.98	+18 23.8	1.683	2.466	16.8	22.3
1 2	9 15.90	+18 57.8	1.617	2.488	13.1	22.1
1 12	9 7.96	+19 41.4	1.574	2.509	8.7	21.9
1 22	8 57.91	+20 29.1	1.556	2.530	4.0	21.6
2 1	8 46.88	+21 14.5	1.567	2.550	1.7	21.5
2 11	8 36.26	+21 51.7	1.607	2.570	6.0	21.9
2 21	8 27.29	+22 17.4	1.674	2.589	10.3	22.1
3 2	8 20.85	+22 30.8	1.766	2.608	14.0	22.4

341219 2007 RV_{130} 1 30.4 258.°41 3.°2/ 1.9 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.37	+ 5 58.9	2.343	3.083	13.9	21.5
1 2	9 7.80	+ 5 59.5	2.243	3.078	11.3	21.3
1 12	9 2.28	+ 6 14.6	2.165	3.074	8.4	21.1
1 22	8 55.24	+ 6 43.5	2.113	3.069	5.3	20.9
2 1	8 47.36	+ 7 24.3	2.089	3.064	3.2	20.8
2 11	8 39.50	+ 8 13.2	2.095	3.059	4.8	20.8
2 21	8 32.49	+ 9 5.9	2.130	3.054	7.9	21.0
3 2	8 27.07	+ 9 58.1	2.191	3.050	11.0	21.2

108903 2001 PR_{8} 1 30.4 47.°46 2.°5/28.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.49	+21 5.8	2.068	2.860	13.8	19.0
1 2	9 9.00	+22 12.3	1.994	2.871	10.7	18.8
1 12	9 3.23	+23 26.6	1.944	2.882	7.2	18.6
1 22	8 55.70	+24 42.6	1.921	2.893	3.7	18.4
2 1	8 47.29	+25 53.8	1.927	2.904	2.9	18.3
2 11	8 39.03	+26 54.1	1.962	2.916	6.0	18.6
2 21	8 31.92	+27 39.9	2.025	2.928	9.5	18.8
3 2	8 26.75	+28 9.9	2.112	2.940	12.6	19.0

265349 2004 RY_{50} 1 30.4 105.°63 2.°3/28.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.12	+22 22.3	2.067	2.852	14.0	20.7
1 2	9 12.55	+22 58.3	1.991	2.863	10.9	20.5
1 12	9 5.56	+23 39.4	1.938	2.874	7.3	20.3
1 22	8 56.77	+24 20.7	1.912	2.884	3.7	20.1
2 1	8 47.10	+24 56.7	1.916	2.895	2.6	20.0
2 11	8 37.66	+25 23.0	1.949	2.905	5.8	20.2
2 21	8 29.49	+25 37.2	2.009	2.915	9.4	20.5
3 2	8 23.40	+25 39.2	2.095	2.925	12.6	20.7

227595 2006 AX_{37} 1 30.4 162.°62 0.°9/29.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.85	+16 25.6	2.228	3.003	13.5	20.4
1 2	9 9.90	+17 19.0	2.139	3.006	10.5	20.2
1 12	9 3.78	+18 23.1	2.074	3.008	7.1	20.0
1 22	8 55.97	+19 33.7	2.036	3.010	3.3	19.8
2 1	8 47.24	+20 45.1	2.029	3.013	1.3	19.6
2 11	8 38.57	+21 51.3	2.052	3.014	5.0	19.9
2 21	8 30.90	+22 48.1	2.103	3.016	8.7	20.1
3 2	8 25.02	+23 32.7	2.181	3.017	11.9	20.3

332767 2009 UB_{112} 1 30.4 188.°48 2.°5/28.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.92	+22 33.7	2.120	2.906	13.7	21.2
1 2	9 11.70	+23 15.5	2.033	2.906	10.7	21.0
1 12	9 5.08	+24 3.0	1.970	2.906	7.2	20.8
1 22	8 56.60	+24 51.2	1.933	2.905	3.8	20.6
2 1	8 47.14	+25 34.4	1.926	2.904	2.8	20.5
2 11	8 37.79	+26 7.6	1.948	2.903	6.0	20.7
2 21	8 29.59	+26 28.1	1.999	2.902	9.5	20.9
3 2	8 23.41	+26 35.4	2.073	2.901	12.8	21.1

508578 2017 OW_{5} 1 30.4 182.°00 1.°0/29.7 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.38	+18 55.2	2.701	3.472	11.5	22.3
1 2	9 9.13	+19 26.7	2.608	3.472	8.9	22.1
1 12	9 3.03	+20 4.4	2.539	3.472	6.0	21.9
1 22	8 55.55	+20 45.1	2.498	3.472	2.8	21.7
2 1	8 47.34	+21 24.9	2.488	3.471	1.3	21.6
2 11	8 39.20	+22 0.1	2.509	3.471	4.3	21.8
2 21	8 31.88	+22 28.2	2.560	3.470	7.4	22.0
3 2	8 26.06	+22 47.7	2.636	3.468	10.2	22.2

129531 1996 EX_{9} 1 30.4 5.°34 0.°1/30.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 10.29	+14 59.0	1.489	2.293	17.6	19.6
1 2	9 8.09	+15 21.5	1.412	2.293	13.9	19.3
1 12	9 3.04	+15 58.6	1.355	2.295	9.5	19.1
1 22	8 55.76	+16 46.5	1.322	2.297	4.5	18.8
2 1	8 47.29	+17 39.0	1.316	2.300	0.8	18.5
2 11	8 39.01	+18 29.4	1.335	2.305	6.0	18.9
2 21	8 32.18	+19 11.9	1.381	2.311	10.8	19.2
3 2	8 27.82	+19 43.1	1.449	2.317	15.0	19.5

464245 2015 DR_{109} 1 30.4 166.°05 4.°5/26.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.28	+30 41.8	2.503	3.286	11.9	21.5
1 2	9 12.47	+31 32.7	2.422	3.289	9.5	21.3
1 12	9 5.43	+32 23.0	2.366	3.291	6.9	21.2
1 22	8 56.71	+33 7.1	2.337	3.293	4.8	21.0
2 1	8 47.13	+33 39.7	2.338	3.295	4.8	21.0
2 11	8 37.71	+33 57.1	2.368	3.297	6.9	21.2
2 21	8 29.39	+33 58.2	2.426	3.298	9.5	21.3
3 2	8 22.96	+33 44.1	2.508	3.299	11.9	21.5

201249 2002 RK_{97} 1 30.4 26.°19 5.°3/27.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.69	+30 49.6	1.863	2.662	14.8	19.2
1 2	9 13.45	+31 31.1	1.793	2.669	11.7	19.0
1 12	9 6.38	+32 11.2	1.746	2.676	8.5	18.8
1 22	8 57.21	+32 43.1	1.724	2.684	5.8	18.7
2 1	8 47.05	+33 0.2	1.730	2.692	5.7	18.7
2 11	8 37.24	+32 58.7	1.764	2.700	8.1	18.9
2 21	8 29.01	+32 38.6	1.823	2.709	11.3	19.1
3 2	8 23.24	+32 2.2	1.905	2.719	14.3	19.3

498176 2007 TK_{211} 1 30.4 76.°43 4.°3/ 2.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.74	+ 3 53.2	2.305	3.034	14.4	21.4
1 2	9 8.75	+ 3 31.1	2.221	3.045	11.8	21.3
1 12	9 2.83	+ 3 23.6	2.158	3.056	9.0	21.1
1 22	8 55.47	+ 3 30.8	2.121	3.066	6.1	20.9
2 1	8 47.37	+ 3 51.6	2.111	3.077	4.3	20.8
2 11	8 39.43	+ 4 23.1	2.131	3.088	5.4	20.9
2 21	8 32.43	+ 5 1.4	2.179	3.099	8.0	21.1
3 2	8 27.06	+ 5 42.4	2.253	3.110	10.8	21.3

247670 2002 XE_{118} 1 30.4 15.°03 9.°9/20.6 16

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.88	+40 25.9	1.967	2.761	14.3	20.0
1 2	9 13.57	+42 58.1	1.909	2.764	12.1	19.8
1 12	9 7.04	+45 25.2	1.876	2.767	10.5	19.7
1 22	8 57.78	+47 35.0	1.869	2.770	10.0	19.7
2 1	8 46.90	+49 16.7	1.889	2.774	10.8	19.8
2 11	8 35.97	+50 23.9	1.933	2.778	12.6	19.9
2 21	8 26.58	+50 56.2	2.000	2.783	14.7	20.1
3 2	8 20.01	+50 57.3	2.086	2.788	16.7	20.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
365139	2009 DY_{54}		1 30.4	294.°16	1.°0/29.9	15
	h m	° ′			°	m
12 23	9 15.12	+17 31.6	1.557	2.355	17.3	21.9
1 2	9 12.13	+17 59.9	1.458	2.336	13.7	21.6
1 12	9 6.04	+18 41.4	1.379	2.317	9.4	21.3
1 22	8 57.32	+19 31.8	1.324	2.299	4.4	21.0
2 1	8 46.99	+20 24.5	1.296	2.280	1.5	20.8
2 11	8 36.51	+21 12.0	1.295	2.261	6.7	21.0
2 21	8 27.39	+21 48.8	1.320	2.243	11.9	21.3
3 2	8 20.89	+22 11.9	1.368	2.225	16.4	21.5
129503	1995 OZ_1		1 30.4	209.°02	2.°0/31.9	18
12 23	9 16.12	+ 8 11.7	2.324	3.064	14.0	21.2
1 2	9 11.62	+ 8 42.6	2.217	3.056	11.3	21.0
1 12	9 4.95	+ 9 29.1	2.132	3.048	8.1	20.7
1 22	8 56.56	+10 29.2	2.075	3.039	4.5	20.5
2 1	8 47.16	+11 39.1	2.047	3.029	2.0	20.3
2 11	8 37.68	+12 53.6	2.051	3.018	4.6	20.5
2 21	8 29.08	+14 7.1	2.085	3.006	8.2	20.7
3 2	8 22.17	+15 15.0	2.146	2.993	11.6	20.9
458292	2010 US_{81}		1 30.4	229.°57	1.°4/31.3	16
12 23	9 16.15	+12 26.7	2.005	2.770	15.1	22.2
1 2	9 11.97	+12 31.2	1.906	2.762	12.1	21.9
1 12	9 5.35	+12 47.8	1.828	2.754	8.5	21.7
1 22	8 56.79	+13 14.5	1.777	2.746	4.4	21.4
2 1	8 47.12	+13 48.0	1.754	2.738	1.5	21.2
2 11	8 37.45	+14 23.9	1.761	2.729	5.0	21.4
2 21	8 28.88	+14 58.0	1.796	2.719	9.2	21.7
3 2	8 22.31	+15 27.2	1.856	2.710	12.9	21.9
262058	2006 RJ_{27}		1 30.5	224.°28	5.°5/ 3.4	17
12 23	9 15.46	− 0 43.5	2.382	3.079	14.7	22.3
1 2	9 11.06	− 0 59.2	2.269	3.067	12.5	22.1
1 12	9 4.56	− 0 57.5	2.176	3.053	9.9	21.9
1 22	8 56.39	− 0 37.1	2.109	3.039	7.3	21.7
2 1	8 47.21	+ 0 1.5	2.069	3.024	5.6	21.5
2 11	8 37.93	+ 0 55.7	2.059	3.008	6.3	21.5
2 21	8 29.45	+ 2 0.9	2.078	2.991	8.8	21.7
3 2	8 22.58	+ 3 11.4	2.124	2.973	11.7	21.8
344109	1999 TF_{264}		1 30.5	124.°24	1.°2/31.1	18
12 23	9 20.63	+12 43.6	1.618	2.390	17.8	22.4
1 2	9 15.80	+12 58.6	1.543	2.405	14.1	22.2
1 12	9 8.04	+13 28.5	1.490	2.419	9.8	21.9
1 22	8 58.05	+14 9.7	1.461	2.432	4.9	21.7
2 1	8 46.93	+14 57.1	1.461	2.445	1.3	21.4
2 11	8 36.12	+15 44.4	1.489	2.458	5.7	21.8
2 21	8 26.89	+16 26.5	1.545	2.469	10.3	22.1
3 2	8 20.23	+17 0.1	1.625	2.480	14.3	22.3
162877	2001 FB_{28}		1 30.5	291.°53	1.°2/31.3	17
12 23	9 12.33	+11 39.8	2.085	2.853	14.5	20.6
1 2	9 9.10	+12 3.7	1.968	2.826	11.7	20.3
1 12	9 3.53	+12 42.1	1.873	2.800	8.2	20.1
1 22	8 56.01	+13 33.1	1.803	2.773	4.2	19.8
2 1	8 47.28	+14 32.8	1.763	2.747	1.2	19.5
2 11	8 38.34	+15 35.9	1.751	2.720	5.0	19.7
2 21	8 30.26	+16 36.7	1.768	2.693	9.2	19.9
3 2	8 24.00	+17 30.8	1.811	2.666	13.1	20.1
349192	2007 RL_{174}		1 30.5	112.°37	2.°7/28.9	18
12 23	9 19.73	+22 1.7	1.738	2.529	16.0	21.8
1 2	9 15.06	+22 48.5	1.667	2.542	12.5	21.6
1 12	9 7.52	+23 42.3	1.618	2.555	8.4	21.4
1 22	8 57.79	+24 36.7	1.595	2.567	4.3	21.1
2 1	8 46.99	+25 24.5	1.600	2.579	3.1	21.1
2 11	8 36.49	+25 59.8	1.634	2.591	6.8	21.3
2 21	8 27.55	+26 20.0	1.695	2.602	10.8	21.6
3 2	8 21.13	+26 24.8	1.780	2.613	14.3	21.8
242630	2005 MW_4		1 30.5	140.°34	5.°4/24.7	18
12 23	9 16.59	+35 40.2	3.033	3.807	10.2	21.0
1 2	9 11.71	+37 1.6	2.964	3.818	8.3	20.8
1 12	9 4.83	+38 20.1	2.922	3.829	6.5	20.7
1 22	8 56.43	+39 29.9	2.908	3.839	5.4	20.7
2 1	8 47.24	+40 25.7	2.924	3.849	5.8	20.7
2 11	8 38.13	+41 4.1	2.969	3.859	7.2	20.8
2 21	8 29.95	+41 24.2	3.041	3.868	9.1	21.0
3 2	8 23.42	+41 27.1	3.137	3.876	10.9	21.1
9697	Louwman		1 30.5	68.°94	2.°5/ 1.2	18
12 23	9 12.76	+ 8 49.1	2.095	2.851	14.8	18.6
1 2	9 9.08	+ 8 52.3	2.007	2.855	11.9	18.4
1 12	9 3.23	+ 9 9.6	1.941	2.860	8.5	18.2
1 22	8 55.73	+ 9 39.6	1.901	2.864	4.9	18.0
2 1	8 47.37	+10 19.4	1.889	2.869	2.5	17.8
2 11	8 39.12	+11 4.6	1.907	2.874	4.8	18.0
2 21	8 31.91	+11 50.9	1.952	2.879	8.4	18.2
3 2	8 26.50	+12 34.3	2.024	2.883	11.7	18.4

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
35156	1993 FH_{59}		1 30.5	150.°36	0.°6/29.9	18
	h m	° ′			°	m
12 23	9 13.55	+18 18.4	2.911	3.676	10.9	20.9
1 2	9 9.05	+18 42.6	2.823	3.683	8.5	20.8
1 12	9 2.88	+19 12.4	2.759	3.690	5.7	20.6
1 22	8 55.47	+19 45.0	2.724	3.697	2.6	20.4
2 1	8 47.43	+20 17.1	2.720	3.704	0.9	20.3
2 11	8 39.50	+20 45.6	2.747	3.710	3.9	20.5
2 21	8 32.37	+21 8.5	2.804	3.716	6.8	20.7
3 2	8 26.62	+21 24.2	2.888	3.721	9.4	20.9
240536	2004 GK_{28}		1 30.5	246.°01	2.°8/ 2.3	17
12 23	9 10.97	+ 3 38.8	2.934	3.649	11.8	21.5
1 2	9 7.17	+ 4 9.6	2.815	3.634	9.8	21.3
1 12	9 1.73	+ 4 55.5	2.719	3.618	7.3	21.1
1 22	8 54.99	+ 5 55.5	2.650	3.601	4.6	20.9
2 1	8 47.50	+ 7 7.2	2.611	3.584	2.9	20.8
2 11	8 39.93	+ 8 26.7	2.604	3.567	4.0	20.8
2 21	8 32.95	+ 9 49.3	2.628	3.550	6.7	21.0
3 2	8 27.20	+11 10.4	2.681	3.532	9.5	21.1
360578	2003 UH_{203}		1 30.5	99.°71	3.°9/28.3	18
12 23	9 21.66	+25 43.3	1.742	2.534	16.0	21.1
1 2	9 16.55	+26 29.9	1.676	2.551	12.5	20.9
1 12	9 8.48	+27 19.8	1.633	2.568	8.6	20.7
1 22	8 58.22	+28 5.7	1.616	2.584	4.9	20.5
2 1	8 46.93	+28 40.5	1.627	2.600	4.3	20.5
2 11	8 36.06	+28 59.2	1.667	2.616	7.4	20.7
2 21	8 26.88	+29 0.7	1.733	2.631	11.1	21.0
3 2	8 20.32	+28 46.4	1.823	2.646	14.4	21.2
124241	2001 PS_{51}		1 30.5	49.°90	0.°9/30.9	18
12 23	9 18.21	+13 40.7	1.167	1.972	21.5	19.9
1 2	9 14.65	+13 53.9	1.115	1.995	16.9	19.6
1 12	9 7.57	+14 24.9	1.082	2.019	11.5	19.4
1 22	8 57.86	+15 8.8	1.071	2.044	5.6	19.1
2 1	8 47.01	+15 58.6	1.084	2.069	1.1	18.9
2 11	8 36.80	+16 46.0	1.124	2.095	6.7	19.4
2 21	8 28.75	+17 25.3	1.188	2.120	11.9	19.7
3 2	8 23.84	+17 53.2	1.274	2.146	16.4	20.1
139529	2001 QO_9		1 30.5	87.°24	0.°1/30.4	18
12 23	9 19.45	+16 40.4	1.890	2.664	15.5	20.0
1 2	9 14.33	+16 52.8	1.824	2.688	12.1	19.8
1 12	9 6.73	+17 14.1	1.779	2.711	8.2	19.6
1 22	8 57.32	+17 40.7	1.761	2.735	3.8	19.4
2 1	8 47.10	+18 8.1	1.772	2.757	0.7	19.2
2 11	8 37.28	+18 32.1	1.813	2.780	5.1	19.5
2 21	8 28.88	+18 49.7	1.882	2.801	9.1	19.8
3 2	8 22.70	+18 59.6	1.976	2.823	12.5	20.1
264485	2001 OW_{49}		1 30.5	104.°66	2.°0/31.7	18
12 23	9 18.14	+10 42.8	2.090	2.842	15.0	21.4
1 2	9 13.07	+10 42.8	2.017	2.864	11.9	21.2
1 12	9 5.78	+10 54.9	1.966	2.886	8.4	21.0
1 22	8 56.86	+11 17.3	1.941	2.907	4.5	20.9
2 1	8 47.19	+11 46.7	1.946	2.927	2.0	20.7
2 11	8 37.81	+12 19.4	1.980	2.947	4.7	20.9
2 21	8 29.63	+12 51.5	2.044	2.967	8.3	21.2
3 2	8 23.40	+13 20.0	2.134	2.985	11.5	21.4
169537	2002 EH_{73}		1 30.5	269.°78	0.°9/30.9	18
12 23	9 17.08	+14 9.2	1.755	2.532	16.4	20.4
1 2	9 13.28	+14 14.9	1.647	2.512	13.2	20.2
1 12	9 6.61	+14 33.2	1.561	2.492	9.2	19.9
1 22	8 57.56	+15 1.9	1.500	2.472	4.6	19.5
2 1	8 47.02	+15 36.8	1.467	2.451	1.0	19.2
2 11	8 36.32	+16 12.8	1.462	2.430	5.8	19.5
2 21	8 26.80	+16 45.0	1.484	2.409	10.6	19.7
3 2	8 19.60	+17 10.1	1.530	2.387	15.0	19.9
71644	2000 EF_{105}		1 30.5	343.°15	7.°4/25.2	18
12 23	9 16.01	+34 30.4	1.880	2.682	14.6	18.3
1 2	9 12.53	+35 52.3	1.804	2.677	11.9	18.1
1 12	9 6.07	+37 12.7	1.752	2.672	9.2	18.0
1 22	8 57.23	+38 22.3	1.725	2.668	7.5	17.9
2 1	8 47.11	+39 12.5	1.725	2.664	7.9	17.9
2 11	8 37.13	+39 37.6	1.751	2.661	10.1	18.0
2 21	8 28.67	+39 36.7	1.801	2.658	12.9	18.2
3 2	8 22.78	+39 12.4	1.872	2.656	15.7	18.3
375764	2009 SJ_{130}		1 30.5	278.°86	6.°4/ 3.6	17
12 23	9 12.45	− 0 55.7	2.014	2.730	16.5	21.1
1 2	9 9.20	− 1 15.8	1.899	2.708	14.1	20.9
1 12	9 3.61	− 1 15.7	1.804	2.687	11.3	20.6
1 22	8 56.07	− 0 53.1	1.732	2.665	8.4	20.4
2 1	8 47.32	− 0 7.8	1.686	2.642	6.5	20.2
2 11	8 38.37	+ 0 57.0	1.669	2.620	7.2	20.2
2 21	8 30.29	+ 2 15.7	1.678	2.597	10.0	20.3
3 2	8 24.05	+ 3 41.2	1.713	2.575	13.4	20.5

365685 2010 VR_{102} 1 30.5 153.°37 1.°5/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.59	+11 40.6	2.208	2.963	14.2	22.2
1 2	9 11.93	+11 50.4	2.120	2.970	11.3	22.0
1 12	9 5.09	+12 11.9	2.054	2.977	7.9	21.8
1 22	8 56.60	+12 42.8	2.016	2.984	4.1	21.6
2 1	8 47.25	+13 19.9	2.006	2.990	1.5	21.4
2 11	8 38.03	+13 59.0	2.028	2.995	4.5	21.6
2 21	8 29.87	+14 36.3	2.078	3.000	8.2	21.8
3 2	8 23.53	+15 8.7	2.155	3.004	11.5	22.1

133387 2003 SD_{157} 1 30.5 187.°32 0.°8/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.80	+17 47.0	2.078	2.850	14.4	21.4
1 2	9 13.96	+18 14.6	1.985	2.849	11.3	21.2
1 12	9 6.65	+18 51.2	1.916	2.849	7.7	20.9
1 22	8 57.40	+19 32.7	1.873	2.847	3.6	20.7
2 1	8 47.11	+20 14.1	1.861	2.845	1.2	20.5
2 11	8 36.89	+20 50.5	1.878	2.842	5.3	20.8
2 21	8 27.83	+21 18.4	1.924	2.838	9.3	21.0
3 2	8 20.84	+21 36.2	1.996	2.834	12.8	21.2

423179 2004 GV_{74} 1 30.5 279.°28 3.°6/ 2.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.87	+ 3 11.1	2.625	3.345	13.0	21.3
1 2	9 7.38	+ 3 21.1	2.499	3.319	10.8	21.1
1 12	9 2.05	+ 3 46.7	2.396	3.293	8.2	20.9
1 22	8 55.23	+ 4 27.9	2.318	3.267	5.5	20.6
2 1	8 47.50	+ 5 23.2	2.270	3.240	3.7	20.5
2 11	8 39.62	+ 6 29.1	2.252	3.212	4.8	20.5
2 21	8 32.36	+ 7 41.0	2.263	3.185	7.6	20.6
3 2	8 26.48	+ 8 54.1	2.302	3.157	10.7	20.8

14407 1991 PQ_{8} 1 30.5 154.°64 0.°2/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.73	+16 17.4	2.498	3.266	12.4	19.2
1 2	9 9.51	+16 41.3	2.409	3.270	9.7	19.0
1 12	9 3.37	+17 13.1	2.343	3.274	6.5	18.8
1 22	8 55.78	+17 50.1	2.304	3.277	3.1	18.6
2 1	8 47.43	+18 28.4	2.296	3.281	0.6	18.4
2 11	8 39.17	+19 4.2	2.318	3.284	4.2	18.7
2 21	8 31.83	+19 34.7	2.370	3.287	7.6	18.9
3 2	8 26.08	+19 57.8	2.448	3.289	10.6	19.1

462626 2009 QY_{31} 1 30.5 122.°33 1.°4/31.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.07	+10 54.0	2.398	3.145	13.4	22.1
1 2	9 11.26	+11 13.7	2.318	3.164	10.6	21.9
1 12	9 4.48	+11 44.8	2.262	3.182	7.4	21.7
1 22	8 56.27	+12 25.0	2.233	3.200	3.9	21.5
2 1	8 47.35	+13 10.9	2.234	3.217	1.4	21.4
2 11	8 38.62	+13 58.2	2.266	3.233	4.2	21.6
2 21	8 30.89	+14 43.1	2.328	3.249	7.5	21.8
3 2	8 24.83	+15 22.9	2.417	3.264	10.5	22.1

54078 2000 GC_{157} 1 30.5 70.°67 2.°1/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.60	+20 57.3	1.697	2.491	16.2	19.3
1 2	9 13.44	+21 31.6	1.626	2.503	12.6	19.1
1 12	9 6.46	+22 13.4	1.576	2.514	8.5	18.9
1 22	8 57.34	+22 57.2	1.552	2.526	4.1	18.6
2 1	8 47.16	+23 36.4	1.556	2.537	2.5	18.6
2 11	8 37.30	+24 5.6	1.588	2.549	6.4	18.8
2 21	8 28.98	+24 22.0	1.647	2.561	10.6	19.1
3 2	8 23.11	+24 25.0	1.730	2.573	14.2	19.3

395395 2011 ST_{102} 1 30.5 193.°66 3.°4/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.90	+25 11.9	2.000	2.780	14.6	22.1
1 2	9 17.43	+25 53.4	1.910	2.778	11.5	21.9
1 12	9 9.14	+26 39.0	1.843	2.775	7.9	21.7
1 22	8 58.64	+27 22.3	1.803	2.772	4.5	21.5
2 1	8 46.93	+27 56.8	1.793	2.767	3.8	21.4
2 11	8 35.33	+28 17.2	1.813	2.762	6.9	21.6
2 21	8 25.11	+28 21.7	1.860	2.756	10.6	21.8
3 2	8 17.28	+28 11.0	1.932	2.749	14.0	22.0

68548 2001 XR_{31} 1 30.5 141.°87 2.°6/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 40.64	+13 6.5	1.571	2.306	19.8	20.3
1 2	9 31.40	+12 27.0	1.493	2.330	15.9	20.1
1 12	9 18.56	+11 57.6	1.436	2.352	11.2	19.8
1 22	9 2.99	+11 37.0	1.406	2.372	6.0	19.6
2 1	8 46.18	+11 22.8	1.408	2.389	2.6	19.4
2 11	8 29.98	+11 12.6	1.441	2.405	6.6	19.7
2 21	8 16.04	+11 4.4	1.505	2.418	11.4	20.0
3 2	8 5.43	+10 56.5	1.594	2.429	15.6	20.3

492566 2014 OF_{151} 1 30.5 204.°33 2.°7/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.11	+22 55.3	1.926	2.708	15.0	22.2
1 2	9 16.12	+23 30.5	1.834	2.704	11.8	22.0
1 12	9 8.31	+24 11.6	1.765	2.699	8.0	21.8
1 22	8 58.28	+24 53.0	1.722	2.694	4.2	21.5
2 1	8 47.01	+25 28.1	1.709	2.688	3.0	21.4
2 11	8 35.82	+25 51.9	1.725	2.681	6.6	21.6
2 21	8 25.98	+26 1.8	1.769	2.673	10.5	21.8
3 2	8 18.51	+25 57.7	1.837	2.665	14.1	22.1

229157 2004 TC_{2} 1 30.5 150.°63 2.°5/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.57	+23 23.0	2.146	2.929	13.6	20.8
1 2	9 12.93	+23 54.1	2.062	2.933	10.6	20.6
1 12	9 5.89	+24 29.3	2.002	2.936	7.2	20.4
1 22	8 57.04	+25 3.9	1.968	2.940	3.8	20.2
2 1	8 47.25	+25 32.7	1.965	2.943	2.8	20.1
2 11	8 37.64	+25 51.7	1.990	2.946	5.9	20.3
2 21	8 29.24	+25 58.7	2.044	2.948	9.4	20.5
3 2	8 22.87	+25 53.8	2.123	2.951	12.5	20.7

8414 Atsuko 1 30.5 164.°55 0.°1/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.79	+15 28.3	1.844	2.620	15.8	18.0
1 2	9 13.43	+15 55.2	1.758	2.623	12.5	17.8
1 12	9 6.43	+16 33.9	1.694	2.627	8.5	17.5
1 22	8 57.36	+17 20.7	1.656	2.630	4.0	17.3
2 1	8 47.18	+18 10.1	1.647	2.632	0.8	17.0
2 11	8 37.13	+18 56.4	1.667	2.634	5.4	17.4
2 21	8 28.38	+19 35.1	1.715	2.635	9.8	17.6
3 2	8 21.86	+20 3.7	1.788	2.636	13.6	17.8

460050 2014 OO_{197} 1 30.5 60.°70 3.°0/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 23.80	+24 59.2	1.595	2.388	17.1	21.0
1 2	9 18.23	+25 7.7	1.536	2.411	13.4	20.8
1 12	9 9.58	+25 18.3	1.498	2.434	9.1	20.6
1 22	8 58.72	+25 25.2	1.486	2.457	4.7	20.4
2 1	8 46.98	+25 23.0	1.502	2.481	3.3	20.4
2 11	8 35.89	+25 8.9	1.546	2.504	6.9	20.7
2 21	8 26.74	+24 42.8	1.617	2.527	10.9	20.9
3 2	8 20.38	+24 6.7	1.711	2.551	14.5	21.2

69737 1998 KS_{12} 1 30.5 273.°06 1.°1/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.45	+13 45.3	1.706	2.485	16.8	19.9
1 2	9 12.79	+13 47.5	1.605	2.471	13.4	19.7
1 12	9 6.28	+14 2.6	1.526	2.457	9.4	19.4
1 22	8 57.42	+14 28.4	1.471	2.442	4.7	19.1
2 1	8 47.16	+15 0.9	1.443	2.428	1.2	18.8
2 11	8 36.82	+15 35.1	1.444	2.413	5.7	19.1
2 21	8 27.74	+16 6.1	1.472	2.398	10.6	19.3
3 2	8 21.02	+16 30.6	1.523	2.383	14.8	19.5

101606 1999 CK_{6} 1 30.5 61.°28 3.°3/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 28.58	+27 53.6	1.701	2.484	16.6	19.3
1 2	9 21.97	+27 37.8	1.625	2.493	13.1	19.1
1 12	9 12.14	+27 19.6	1.571	2.503	9.1	18.9
1 22	8 59.95	+26 53.6	1.543	2.512	5.0	18.7
2 1	8 46.75	+26 15.6	1.544	2.522	3.5	18.6
2 11	8 34.16	+25 24.5	1.575	2.531	7.0	18.8
2 21	8 23.55	+24 22.3	1.633	2.541	11.0	19.1
3 2	8 15.87	+23 12.6	1.717	2.551	14.7	19.3

47858 2000 EB_{158} 1 30.5 14.°45 0.°3/30.7 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.97	+16 45.3	2.056	2.832	14.4	17.9
1 2	9 11.68	+16 37.5	1.968	2.833	11.4	17.7
1 12	9 5.05	+16 37.1	1.902	2.834	7.7	17.5
1 22	8 56.65	+16 41.7	1.863	2.836	3.7	17.3
2 1	8 47.33	+16 48.3	1.852	2.837	0.7	17.0
2 11	8 38.18	+16 53.8	1.871	2.839	4.8	17.3
2 21	8 30.20	+16 56.0	1.918	2.841	8.8	17.6
3 2	8 24.19	+16 53.5	1.991	2.843	12.2	17.8

432178 2009 CC_{36} 1 30.5 349.°63 2.°8/28.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.61	+25 57.1	2.263	3.047	13.0	21.2
1 2	9 12.86	+26 13.1	2.176	3.046	10.2	21.0
1 12	9 5.79	+26 30.4	2.112	3.046	7.0	20.8
1 22	8 56.98	+26 44.6	2.076	3.045	3.9	20.6
2 1	8 47.30	+26 51.3	2.069	3.045	3.1	20.5
2 11	8 37.82	+26 47.6	2.092	3.044	5.8	20.7
2 21	8 29.52	+26 32.6	2.142	3.044	9.1	20.9
3 2	8 23.19	+26 6.9	2.218	3.044	12.1	21.1

462662 2009 SM_{341} 1 30.5 180.°99 0.°4/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.91	+13 56.3	2.236	3.001	13.7	22.4
1 2	9 10.72	+14 21.9	2.143	3.001	10.8	22.2
1 12	9 4.37	+14 58.6	2.073	3.002	7.4	22.0
1 22	8 56.34	+15 43.4	2.030	3.002	3.6	21.8
2 1	8 47.41	+16 32.0	2.017	3.001	0.7	21.5
2 11	8 38.54	+17 19.9	2.034	3.001	4.5	21.8
2 21	8 30.66	+18 3.0	2.080	3.000	8.3	22.1
3 2	8 24.56	+18 38.4	2.151	2.998	11.6	22.3

54798 2001 ME_{14} 1 30.5 129.°38 0.°2/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.79	+16 0.4	2.615	3.376	12.0	19.5
1 2	9 10.19	+16 9.3	2.529	3.386	9.4	19.3
1 12	9 3.75	+16 25.2	2.467	3.396	6.4	19.1
1 22	8 55.96	+16 45.7	2.433	3.405	3.0	18.9
2 1	8 47.50	+17 7.7	2.429	3.414	0.5	18.7
2 11	8 39.19	+17 28.5	2.456	3.423	4.0	19.0
2 21	8 31.79	+17 45.5	2.513	3.431	7.2	19.2
3 2	8 25.93	+17 57.4	2.597	3.439	10.0	19.4

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
303461	2005 CR_{14}		1 30.5	94.°33	0.°2/30.3	18
	h m	° ′			°	m
12 23	9 17.14	+14 36.9	1.667	2.449	17.0	21.3
1 2	9 13.07	+15 20.8	1.596	2.465	13.3	21.0
1 12	9 6.23	+16 19.1	1.546	2.480	9.0	20.8
1 22	8 57.28	+17 26.7	1.521	2.495	4.2	20.6
2 1	8 47.27	+18 36.7	1.525	2.510	0.9	20.4
2 11	8 37.52	+19 41.8	1.558	2.524	5.7	20.7
2 21	8 29.25	+20 36.5	1.618	2.539	10.2	21.0
3 2	8 23.37	+21 17.9	1.702	2.553	14.0	21.3
395118	2009 WO_{73}		1 30.5	24.°85	2.°4/29.6	17
12 23	9 18.28	+21 1.3	1.123	1.946	21.0	21.2
1 2	9 15.36	+21 19.0	1.058	1.951	16.5	21.0
1 12	9 8.51	+21 46.8	1.012	1.956	11.2	20.7
1 22	8 58.56	+22 17.8	0.988	1.963	5.4	20.4
2 1	8 47.03	+22 43.7	0.988	1.970	2.8	20.2
2 11	8 35.98	+22 57.5	1.012	1.978	8.1	20.6
2 21	8 27.19	+22 56.5	1.060	1.987	13.6	20.9
3 2	8 21.89	+22 40.9	1.128	1.997	18.3	21.2
488554	2001 UF_{1}		1 30.5	156.°70	9.°9/ 9.7	17
12 23	9 15.66	−20 7.0	2.911	3.456	14.8	22.8
1 2	9 10.79	−20 59.8	2.823	3.466	13.6	22.7
1 12	9 4.15	−21 31.4	2.751	3.476	12.3	22.6
1 22	8 56.17	−21 38.2	2.699	3.485	11.1	22.6
2 1	8 47.47	−21 18.4	2.670	3.493	10.2	22.5
2 11	8 38.83	−20 32.7	2.666	3.500	9.9	22.5
2 21	8 30.97	−19 24.6	2.687	3.507	10.4	22.5
3 2	8 24.54	−17 59.5	2.734	3.512	11.4	22.6
209088	2003 SE_{31}		1 30.5	177.°92	0.°1/30.4	18
12 23	9 18.66	+16 4.6	2.101	2.868	14.4	22.0
1 2	9 13.80	+16 26.6	2.010	2.871	11.4	21.8
1 12	9 6.53	+16 58.3	1.942	2.872	7.7	21.6
1 22	8 57.39	+17 36.2	1.900	2.873	3.6	21.3
2 1	8 47.25	+18 15.9	1.889	2.873	0.7	21.1
2 11	8 37.20	+18 52.6	1.907	2.873	5.0	21.4
2 21	8 28.30	+19 22.8	1.955	2.872	9.0	21.7
3 2	8 21.40	+19 44.4	2.028	2.870	12.4	21.9
307679	2003 ST_{352}		1 30.5	186.°29	2.°9/ 1.3	18
12 23	9 16.25	+ 7 44.2	1.971	2.720	15.8	21.6
1 2	9 12.06	+ 7 50.1	1.877	2.720	12.9	21.4
1 12	9 5.44	+ 8 12.2	1.804	2.719	9.3	21.2
1 22	8 56.91	+ 8 49.2	1.757	2.719	5.5	20.9
2 1	8 47.33	+ 9 38.0	1.738	2.717	2.9	20.8
2 11	8 37.79	+10 33.7	1.748	2.715	5.2	20.9
2 21	8 29.36	+11 30.9	1.787	2.712	9.1	21.1
3 2	8 22.92	+12 24.7	1.852	2.709	12.7	21.4
233946	2009 WG_{125}		1 30.5	124.°52	1.°5/29.5	18
12 23	9 15.67	+19 31.6	2.174	2.954	13.6	20.7
1 2	9 11.37	+20 10.3	2.093	2.962	10.6	20.5
1 12	9 4.82	+20 56.4	2.035	2.970	7.1	20.3
1 22	8 56.56	+21 45.5	2.005	2.978	3.4	20.1
2 1	8 47.42	+22 32.3	2.004	2.986	1.8	20.0
2 11	8 38.45	+23 12.1	2.033	2.993	5.2	20.3
2 21	8 30.59	+23 41.9	2.090	3.000	8.8	20.5
3 2	8 24.63	+24 0.2	2.172	3.007	12.0	20.7
374047	2004 OF_{11}		1 30.5	161.°18	2.°3/28.7	17
12 23	9 18.92	+24 26.0	2.764	3.532	11.3	22.5
1 2	9 13.39	+24 57.5	2.677	3.540	8.8	22.4
1 12	9 5.92	+25 31.4	2.616	3.547	6.0	22.2
1 22	8 57.00	+26 3.6	2.584	3.554	3.2	22.0
2 1	8 47.35	+26 30.0	2.584	3.559	2.6	22.0
2 11	8 37.86	+26 47.5	2.614	3.565	5.0	22.2
2 21	8 29.34	+26 54.6	2.674	3.569	7.8	22.4
3 2	8 22.46	+26 51.4	2.761	3.573	10.4	22.5
427617	2003 SL_{433}		1 30.5	75.°17	4.°9/26.9	18
12 23	9 16.72	+28 56.8	2.048	2.842	13.8	20.8
1 2	9 12.50	+30 5.6	1.980	2.854	10.9	20.6
1 12	9 5.73	+31 15.7	1.935	2.865	7.8	20.5
1 22	8 57.02	+32 19.8	1.918	2.877	5.3	20.3
2 1	8 47.34	+33 10.9	1.929	2.889	5.4	20.4
2 11	8 37.91	+33 44.1	1.968	2.901	7.7	20.5
2 21	8 29.82	+33 57.8	2.034	2.912	10.7	20.7
3 2	8 23.93	+33 53.3	2.123	2.924	13.4	20.9
505017	2011 QU_{2}		1 30.5	241.°14	1.°5/31.6	17
12 23	9 15.25	+12 7.0	2.812	3.556	11.7	22.3
1 2	9 10.58	+11 57.8	2.697	3.541	9.4	22.1
1 12	9 4.09	+11 56.4	2.606	3.525	6.6	21.9
1 22	8 56.19	+12 1.8	2.542	3.508	3.6	21.7
2 1	8 47.49	+12 12.1	2.509	3.491	1.5	21.5
2 11	8 38.75	+12 25.3	2.508	3.474	3.9	21.7
2 21	8 30.73	+12 38.9	2.536	3.456	7.0	21.8
3 2	8 24.11	+12 51.1	2.593	3.438	10.0	22.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
394053	2005 WT_{187}		1 30.5	151.°69	3.°7/28.3	18
	h m	° ′			°	m
12 23	9 21.09	+23 43.5	1.755	2.545	15.9	21.5
1 2	9 16.31	+24 45.2	1.679	2.553	12.5	21.3
1 12	9 8.54	+25 53.8	1.625	2.560	8.5	21.1
1 22	8 58.43	+27 1.5	1.597	2.567	4.8	20.9
2 1	8 47.09	+28 0.2	1.598	2.572	4.1	20.8
2 11	8 35.95	+28 43.2	1.628	2.578	7.5	21.1
2 21	8 26.37	+29 7.5	1.684	2.582	11.4	21.3
3 2	8 19.37	+29 13.6	1.764	2.586	14.9	21.5
330445	2007 DQ_{105}		1 30.5	296.°67	3.°0/ 1.4	18
12 23	9 13.07	+ 7 43.5	1.931	2.688	15.8	21.3
1 2	9 9.63	+ 7 47.1	1.838	2.686	12.9	21.1
1 12	9 3.83	+ 8 7.0	1.766	2.683	9.3	20.9
1 22	8 56.18	+ 8 42.1	1.719	2.681	5.5	20.7
2 1	8 47.49	+ 9 29.4	1.700	2.679	3.0	20.5
2 11	8 38.86	+10 24.2	1.710	2.677	5.2	20.6
2 21	8 31.30	+11 21.0	1.747	2.675	9.1	20.9
3 2	8 25.70	+12 14.8	1.810	2.673	12.7	21.1
502963	2015 EL_{71}		1 30.5	324.°40	0.°2/30.4	18
12 23	9 13.51	+16 36.2	2.155	2.932	13.8	21.7
1 2	9 9.75	+16 53.7	2.063	2.929	10.8	21.5
1 12	9 3.78	+17 20.1	1.994	2.927	7.3	21.3
1 22	8 56.11	+17 52.3	1.951	2.925	3.4	21.0
2 1	8 47.52	+18 26.3	1.938	2.923	0.7	20.8
2 11	8 39.01	+18 57.8	1.954	2.920	4.8	21.1
2 21	8 31.53	+19 23.6	1.998	2.918	8.6	21.3
3 2	8 25.89	+19 41.6	2.068	2.916	12.0	21.5
89247	2001 UE_{168}		1 30.5	333.°74	8.°9/26.1	18
12 23	9 21.54	+37 19.6	1.568	2.371	16.9	18.1
1 2	9 17.61	+38 17.2	1.490	2.361	14.0	17.8
1 12	9 9.93	+39 9.2	1.433	2.350	11.1	17.6
1 22	8 59.23	+39 44.8	1.400	2.341	9.1	17.5
2 1	8 46.95	+39 54.3	1.392	2.332	9.3	17.5
2 11	8 35.00	+39 32.8	1.409	2.324	11.7	17.6
2 21	8 25.13	+38 41.5	1.449	2.317	14.8	17.8
3 2	8 18.57	+37 26.3	1.510	2.310	18.0	17.9
136383	2004 FT_{65}		1 30.5	312.°33	0.°3/30.3	17
12 23	9 11.78	+16 19.1	2.200	2.979	13.5	20.1
1 2	9 8.43	+16 46.8	2.102	2.970	10.6	19.8
1 12	9 2.93	+17 24.3	2.027	2.961	7.2	19.6
1 22	8 55.73	+18 8.5	1.979	2.953	3.4	19.4
2 1	8 47.58	+18 54.8	1.960	2.944	0.8	19.1
2 11	8 39.45	+19 38.7	1.970	2.936	4.8	19.4
2 21	8 32.26	+20 16.2	2.008	2.928	8.6	19.6
3 2	8 26.83	+20 44.8	2.072	2.920	12.0	19.8
466956	2016 AO_{129}		1 30.5	341.°80	9.°4/26.1	18
12 23	9 20.18	+37 0.5	1.429	2.241	17.8	20.3
1 2	9 16.87	+38 1.2	1.355	2.231	14.8	20.0
1 12	9 9.60	+38 56.4	1.301	2.221	11.7	19.8
1 22	8 59.13	+39 34.6	1.269	2.213	9.6	19.7
2 1	8 46.97	+39 45.2	1.262	2.205	9.8	19.7
2 11	8 35.18	+39 22.7	1.279	2.198	12.3	19.8
2 21	8 25.61	+38 28.7	1.318	2.192	15.6	20.0
3 2	8 19.56	+37 9.6	1.378	2.188	18.9	20.2
229612	2006 DS_{36}		1 30.5	73.°60	0.°2/30.4	18
12 23	9 15.08	+16 38.8	2.027	2.805	14.5	20.8
1 2	9 11.03	+16 55.2	1.945	2.812	11.4	20.6
1 12	9 4.65	+17 20.6	1.886	2.819	7.7	20.4
1 22	8 56.51	+17 51.8	1.853	2.826	3.6	20.1
2 1	8 47.47	+18 24.4	1.849	2.833	0.7	19.9
2 11	8 38.62	+18 54.1	1.874	2.841	4.9	20.2
2 21	8 30.94	+19 17.6	1.927	2.848	8.8	20.5
3 2	8 25.23	+19 33.2	2.006	2.855	12.3	20.7
89280	2001 VS_{16}		1 30.5	71.°52	5.°9/ 2.7	18
12 23	9 17.16	+ 3 8.5	1.784	2.520	17.7	19.4
1 2	9 12.77	+ 2 19.4	1.710	2.536	14.7	19.2
1 12	9 5.87	+ 1 48.0	1.655	2.551	11.3	19.0
1 22	8 57.09	+ 1 35.7	1.625	2.567	8.0	18.9
2 1	8 47.39	+ 1 42.2	1.621	2.583	6.0	18.8
2 11	8 37.95	+ 2 4.7	1.645	2.599	7.0	18.9
2 21	8 29.84	+ 2 38.4	1.696	2.615	9.9	19.1
3 2	8 23.90	+ 3 17.9	1.771	2.631	13.1	19.3
369845	2012 JV_{38}		1 30.5	142.°01	0.°9/31.2	18
12 23	9 14.74	+12 44.6	2.207	2.969	14.0	21.6
1 2	9 10.57	+13 3.2	2.119	2.975	11.1	21.4
1 12	9 4.26	+13 33.2	2.054	2.981	7.6	21.2
1 22	8 56.32	+14 12.0	2.016	2.986	3.8	21.0
2 1	8 47.53	+14 55.9	2.007	2.991	1.0	20.7
2 11	8 38.85	+15 40.4	2.028	2.996	4.5	21.0
2 21	8 31.19	+16 21.5	2.079	3.001	8.2	21.2
3 2	8 25.32	+16 56.3	2.155	3.005	11.5	21.5

434028 2001 SG_{182} 1 30.5 155.°96 0.°6/30.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.69	+17 41.5	2.215	2.985	13.7	22.2
1 2	9 12.88	+18 6.9	2.129	2.992	10.7	22.0
1 12	9 5.83	+18 40.3	2.066	2.998	7.2	21.8
1 22	8 57.06	+19 18.0	2.030	3.004	3.4	21.6
2 1	8 47.40	+19 55.5	2.025	3.009	1.0	21.4
2 11	8 37.89	+20 28.6	2.050	3.014	4.9	21.7
2 21	8 29.48	+20 54.2	2.104	3.018	8.6	21.9
3 2	8 22.97	+21 10.8	2.183	3.022	11.8	22.1

85916 1999 CT_{98} 1 30.5 24.°00 2.°0/29.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.50	+18 40.4	1.500	2.306	17.4	19.1
1 2	9 10.71	+19 33.3	1.428	2.312	13.6	18.9
1 12	9 4.93	+20 38.8	1.376	2.318	9.1	18.6
1 22	8 56.80	+21 50.4	1.349	2.324	4.3	18.4
2 1	8 47.45	+22 59.8	1.349	2.332	2.5	18.3
2 11	8 38.31	+23 59.0	1.376	2.339	6.9	18.6
2 21	8 30.73	+24 42.7	1.429	2.348	11.5	18.8
3 2	8 25.74	+25 9.2	1.504	2.356	15.4	19.1

407316 2010 OJ_3 1 30.5 82.°16 2.°3/29.4 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 23.48	+23 28.1	1.781	2.565	16.0	21.3
1 2	9 17.74	+23 38.8	1.716	2.587	12.5	21.1
1 12	9 9.18	+23 52.8	1.674	2.609	8.4	20.9
1 22	8 58.60	+24 4.8	1.658	2.630	4.2	20.7
2 1	8 47.17	+24 10.1	1.671	2.651	2.6	20.6
2 11	8 36.25	+24 5.3	1.713	2.672	6.2	20.9
2 21	8 27.04	+23 49.8	1.783	2.693	10.1	21.2
3 2	8 20.36	+23 24.7	1.877	2.713	13.5	21.4

95893 2003 HY_{11} 1 30.5 190.°85 2.°7/28.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.11	+23 4.5	2.450	3.228	12.3	20.1
1 2	9 11.64	+24 2.8	2.358	3.227	9.6	19.9
1 12	9 5.02	+25 6.6	2.292	3.225	6.5	19.7
1 22	8 56.71	+26 11.0	2.253	3.223	3.6	19.5
2 1	8 47.47	+27 10.0	2.245	3.220	3.0	19.5
2 11	8 38.27	+27 58.7	2.268	3.217	5.7	19.7
2 21	8 30.02	+28 34.3	2.319	3.213	8.9	19.9
3 2	8 23.52	+28 55.7	2.396	3.209	11.7	20.0

197659 2004 NA_2 1 30.5 188.°46 0.°9/31.0 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 20.64	+14 17.0	1.938	2.702	15.6	21.0
1 2	9 15.58	+14 19.1	1.844	2.701	12.4	20.8
1 12	9 7.88	+14 31.9	1.773	2.700	8.6	20.6
1 22	8 58.12	+14 52.7	1.727	2.698	4.3	20.3
2 1	8 47.23	+15 18.0	1.711	2.696	1.0	20.1
2 11	8 36.41	+15 43.3	1.725	2.692	5.2	20.4
2 21	8 26.85	+16 5.3	1.767	2.688	9.5	20.6
3 2	8 19.49	+16 21.5	1.835	2.684	13.3	20.8

290973 2005 XS_{16} 1 30.5 47.°86 2.°6/31.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.65	+11 24.4	1.230	2.026	21.1	20.2
1 2	9 14.22	+11 10.2	1.169	2.041	16.9	20.0
1 12	9 7.39	+11 14.3	1.125	2.057	11.9	19.7
1 22	8 57.95	+11 34.5	1.104	2.074	6.4	19.5
2 1	8 47.28	+12 6.3	1.108	2.091	2.6	19.3
2 11	8 37.08	+12 43.3	1.138	2.109	6.6	19.6
2 21	8 28.84	+13 19.2	1.193	2.127	11.7	19.9
3 2	8 23.63	+13 49.5	1.269	2.145	16.2	20.2

259029 2002 TX_{221} 1 30.5 86.°57 4.°9/28.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 25.91	+29 46.0	1.779	2.566	15.9	21.0
1 2	9 19.78	+30 18.6	1.719	2.588	12.5	20.8
1 12	9 10.62	+30 49.7	1.682	2.611	8.8	20.6
1 22	8 59.28	+31 12.0	1.671	2.633	5.7	20.5
2 1	8 47.06	+31 19.2	1.688	2.655	5.2	20.5
2 11	8 35.45	+31 8.3	1.734	2.676	7.8	20.7
2 21	8 25.74	+30 40.0	1.807	2.697	11.2	20.9
3 2	8 18.77	+29 57.7	1.903	2.718	14.3	21.2

18923 Jennifersass 1 30.5 269.°46 4.°6/28.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 20.51	+26 1.9	1.625	2.425	16.6	18.9
1 2	9 16.51	+26 49.5	1.529	2.407	13.2	18.6
1 12	9 9.15	+27 42.9	1.454	2.390	9.3	18.3
1 22	8 58.96	+28 34.5	1.403	2.371	5.6	18.1
2 1	8 47.06	+29 15.4	1.380	2.353	5.0	18.0
2 11	8 35.06	+29 38.5	1.385	2.334	8.6	18.1
2 21	8 24.61	+29 40.7	1.415	2.316	12.9	18.3
3 2	8 17.03	+29 23.0	1.467	2.296	17.0	18.5

104863 2000 HA_{82} 1 30.5 258.°23 2.°9/28.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.59	+21 38.4	1.563	2.362	17.2	20.5
1 2	9 14.90	+22 22.7	1.473	2.353	13.5	20.3
1 12	9 7.97	+23 16.9	1.404	2.343	9.2	20.0
1 22	8 58.36	+24 14.4	1.360	2.333	4.7	19.7
2 1	8 47.18	+25 6.9	1.344	2.323	3.4	19.6
2 11	8 36.00	+25 46.8	1.355	2.313	7.6	19.8
2 21	8 26.36	+26 10.0	1.391	2.303	12.3	20.1
3 2	8 19.50	+26 15.7	1.450	2.292	16.5	20.3

129809 1999 LO_{20} 1 30.5 198.°16 0.°5/30.8 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.62	+14 25.9	2.058	2.822	14.8	20.7
1 2	9 13.89	+14 40.9	1.961	2.819	11.7	20.5
1 12	9 6.70	+15 6.7	1.887	2.815	8.1	20.3
1 22	8 57.56	+15 40.6	1.839	2.811	3.9	20.0
2 1	8 47.34	+16 18.5	1.821	2.806	0.7	19.8
2 11	8 37.15	+16 55.6	1.833	2.800	5.0	20.1
2 21	8 28.08	+17 28.2	1.874	2.794	9.1	20.3
3 2	8 21.04	+17 53.5	1.940	2.786	12.7	20.5

130987 2000 WO_{140} 1 30.5 123.°88 3.°9/28.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 20.47	+24 31.3	1.816	2.606	15.5	19.8
1 2	9 15.68	+25 35.8	1.745	2.619	12.1	19.6
1 12	9 8.03	+26 45.8	1.697	2.632	8.3	19.4
1 22	8 58.19	+27 53.7	1.676	2.644	4.8	19.2
2 1	8 47.24	+28 51.5	1.684	2.656	4.3	19.2
2 11	8 36.57	+29 33.1	1.720	2.668	7.4	19.4
2 21	8 27.42	+29 56.1	1.784	2.678	11.0	19.7
3 2	8 20.75	+30 1.0	1.870	2.689	14.3	19.9

204649 2006 BT_{79} 1 30.5 32.°96 1.°5/29.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.62	+16 34.4	1.324	2.133	19.2	20.0
1 2	9 11.96	+17 28.9	1.253	2.138	15.1	19.8
1 12	9 6.00	+18 40.2	1.203	2.144	10.1	19.5
1 22	8 57.40	+20 1.6	1.175	2.151	4.7	19.2
2 1	8 47.37	+21 23.6	1.174	2.158	2.0	19.1
2 11	8 37.58	+22 36.1	1.199	2.165	7.2	19.4
2 21	8 29.55	+23 32.6	1.249	2.173	12.3	19.7
3 2	8 24.41	+24 10.2	1.321	2.181	16.7	20.0

247796 2003 SL_{59} 1 30.5 145.°02 1.°1/31.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 23.00	+14 38.6	2.128	2.881	14.7	22.0
1 2	9 16.96	+14 24.5	2.043	2.893	11.7	21.8
1 12	9 8.54	+14 18.5	1.981	2.905	8.0	21.6
1 22	8 58.32	+14 18.6	1.946	2.916	4.1	21.3
2 1	8 47.24	+14 22.2	1.942	2.926	1.2	21.1
2 11	8 36.40	+14 26.6	1.969	2.935	4.7	21.4
2 21	8 26.83	+14 29.6	2.025	2.944	8.6	21.7
3 2	8 19.34	+14 29.5	2.108	2.951	12.0	21.9

284095 2005 MG_{42} 1 30.5 188.°10 3.°9/ 2.9 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.00	+ 2 19.8	2.932	3.639	12.0	21.7
1 2	9 7.90	+ 2 5.8	2.830	3.638	10.0	21.5
1 12	9 2.20	+ 2 4.4	2.750	3.637	7.7	21.4
1 22	8 55.31	+ 2 15.7	2.697	3.635	5.4	21.2
2 1	8 47.77	+ 2 39.0	2.672	3.634	4.0	21.1
2 11	8 40.25	+ 3 12.0	2.678	3.631	4.7	21.1
2 21	8 33.41	+ 3 51.6	2.714	3.629	6.8	21.3
3 2	8 27.83	+ 4 34.4	2.777	3.626	9.2	21.4

247036 2000 EA_{31} 1 30.5 337.°23 6.°5/27.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.11	+27 45.3	1.208	2.035	19.6	20.1
1 2	9 14.75	+28 48.4	1.134	2.027	15.6	19.9
1 12	9 8.40	+29 57.2	1.079	2.020	11.2	19.6
1 22	8 58.71	+31 1.0	1.046	2.013	7.3	19.3
2 1	8 47.14	+31 47.7	1.038	2.007	7.1	19.3
2 11	8 35.75	+32 8.4	1.054	2.002	10.8	19.5
2 21	8 26.53	+32 0.9	1.092	1.997	15.5	19.7
3 2	8 20.88	+31 28.2	1.149	1.994	19.7	20.0

371200 2005 YQ_{193} 1 30.5 122.°29 0.°6/30.1 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.33	+16 9.9	2.095	2.871	14.1	21.4
1 2	9 10.45	+16 50.3	2.010	2.876	11.1	21.2
1 12	9 4.30	+17 41.5	1.948	2.882	7.5	21.0
1 22	8 56.40	+18 39.2	1.913	2.887	3.5	20.7
2 1	8 47.57	+19 38.3	1.907	2.892	1.0	20.6
2 11	8 38.86	+20 33.1	1.932	2.897	5.0	20.9
2 21	8 31.23	+21 19.5	1.984	2.901	8.8	21.1
3 2	8 25.50	+21 55.0	2.062	2.906	12.2	21.3

335649 2006 KG_{119} 1 30.5 151.°09 2.°7/ 1.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.19	+ 6 38.4	2.434	3.172	13.4	21.4
1 2	9 8.39	+ 6 50.9	2.340	3.176	10.9	21.2
1 12	9 2.71	+ 7 17.4	2.269	3.179	7.9	21.1
1 22	8 55.60	+ 7 56.8	2.224	3.183	4.8	20.9
2 1	8 47.72	+ 8 46.5	2.209	3.186	2.7	20.7
2 11	8 39.91	+ 9 42.4	2.223	3.189	4.4	20.8
2 21	8 32.95	+10 40.1	2.267	3.191	7.5	21.0
3 2	8 27.51	+11 35.5	2.338	3.194	10.5	21.2

386595 2009 FY_{56} 1 30.5 318.°75 2.°3/31.3 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 20.88	+14 47.7	2.059	2.819	14.9	20.2
1 2	9 15.73	+13 47.2	1.946	2.799	12.0	20.0
1 12	9 8.00	+12 50.5	1.856	2.780	8.6	19.8
1 22	8 58.22	+11 57.5	1.794	2.760	4.7	19.5
2 1	8 47.25	+11 8.3	1.760	2.741	2.3	19.3
2 11	8 36.26	+10 22.8	1.758	2.723	5.4	19.4
2 21	8 26.38	+ 9 40.7	1.784	2.705	9.4	19.6
3 2	8 18.58	+ 9 1.8	1.837	2.688	13.1	19.8

95687 2002 JK_{23} 1 30.5 349.°75 6.°1/ 2.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.14	+ 2 55.4	1.582	2.341	18.7	19.3
1 2	9 7.88	+ 2 21.5	1.493	2.334	15.7	19.1
1 12	9 2.96	+ 2 8.2	1.424	2.328	12.1	18.8
1 22	8 55.91	+ 2 17.6	1.376	2.324	8.5	18.6
2 1	8 47.65	+ 2 49.1	1.353	2.319	6.2	18.5
2 11	8 39.42	+ 3 38.7	1.356	2.316	7.3	18.5
2 21	8 32.44	+ 4 40.0	1.384	2.314	10.8	18.7
3 2	8 27.70	+ 5 45.5	1.436	2.313	14.5	18.9

117060 2004 KD_3 1 30.5 225.°49 3.°8/ 2.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.55	+ 4 15.9	2.556	3.282	13.2	20.1
1 2	9 7.82	+ 4 1.8	2.457	3.280	10.9	19.9
1 12	9 2.29	+ 4 1.1	2.381	3.279	8.2	19.7
1 22	8 55.40	+ 4 13.7	2.330	3.277	5.5	19.6
2 1	8 47.77	+ 4 38.5	2.308	3.275	3.8	19.4
2 11	8 40.18	+ 5 12.8	2.315	3.274	4.9	19.5
2 21	8 33.37	+ 5 53.2	2.351	3.272	7.5	19.7
3 2	8 28.00	+ 6 35.7	2.414	3.270	10.2	19.8

383810 2008 AD_6 1 30.5 301.°06 3.°9/ 2.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.64	+ 5 15.9	2.398	3.131	13.8	21.4
1 2	9 8.78	+ 4 52.6	2.301	3.129	11.3	21.2
1 12	9 3.00	+ 4 42.1	2.226	3.128	8.5	21.0
1 22	8 55.76	+ 4 44.8	2.177	3.127	5.7	20.8
2 1	8 47.72	+ 4 59.7	2.156	3.125	3.9	20.7
2 11	8 39.73	+ 5 24.4	2.165	3.124	5.1	20.8
2 21	8 32.60	+ 5 55.4	2.201	3.123	7.9	20.9
3 2	8 27.03	+ 6 29.1	2.265	3.121	10.8	21.1

475715 2006 WL_4 1 30.5 157.°71 17.°7/18.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 36.33	+49 5.8	1.217	2.006	21.7	21.4
1 2	9 32.45	+52 17.8	1.177	2.011	19.5	21.3
1 12	9 22.08	+55 13.2	1.157	2.016	18.0	21.2
1 22	9 5.75	+57 29.2	1.157	2.020	17.8	21.2
2 1	8 45.90	+58 46.6	1.177	2.023	18.8	21.2
2 11	8 26.61	+58 58.9	1.216	2.026	20.7	21.4
2 21	8 11.62	+58 13.9	1.270	2.028	22.8	21.5
3 2	8 3.00	+56 46.4	1.339	2.030	24.9	21.7

245749 2006 DD_{160} 1 30.5 111.°40 0.°8/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.24	+17 43.0	1.674	2.458	16.9	21.2
1 2	9 15.54	+18 6.6	1.601	2.471	13.2	21.0
1 12	9 7.95	+18 40.3	1.549	2.484	8.9	20.7
1 22	8 58.17	+19 19.5	1.523	2.497	4.1	20.5
2 1	8 47.31	+19 58.1	1.525	2.509	1.2	20.3
2 11	8 36.76	+20 30.7	1.556	2.521	5.9	20.6
2 21	8 27.78	+20 53.6	1.614	2.533	10.4	20.9
3 2	8 21.31	+21 5.6	1.696	2.544	14.2	21.2

345293 2005 WD_{103} 1 30.5 8.°78 0.°5/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.86	+14 37.4	0.997	1.831	22.2	19.7
1 2	9 8.29	+15 15.1	0.934	1.832	17.6	19.4
1 12	9 3.97	+16 15.1	0.888	1.835	12.0	19.1
1 22	8 56.59	+17 31.5	0.863	1.839	5.6	18.8
2 1	8 47.57	+18 54.0	0.861	1.846	1.2	18.5
2 11	8 38.84	+20 10.4	0.882	1.853	7.7	18.9
2 21	8 32.19	+21 11.7	0.925	1.862	13.7	19.3
3 2	8 28.90	+21 53.0	0.987	1.873	18.8	19.6

506236 2016 NV_9 1 30.5 281.°02 2.°3/31.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.21	+11 7.4	2.485	3.233	12.9	21.4
1 2	9 10.82	+10 40.5	2.373	3.217	10.5	21.2
1 12	9 4.43	+10 21.9	2.284	3.201	7.5	21.0
1 22	8 56.46	+10 11.1	2.222	3.185	4.4	20.7
2 1	8 47.60	+10 7.0	2.189	3.169	2.3	20.6
2 11	8 38.71	+10 7.8	2.187	3.152	4.5	20.7
2 21	8 30.63	+10 11.4	2.214	3.136	7.8	20.9
3 2	8 24.13	+10 15.6	2.268	3.120	10.9	21.0

84137 2002 RT_{51} 1 30.5 46.°87 3.°1/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.16	+22 25.4	1.565	2.368	17.0	19.6
1 2	9 13.50	+23 9.8	1.494	2.376	13.3	19.4
1 12	9 6.77	+24 1.9	1.444	2.383	9.0	19.2
1 22	8 57.69	+24 54.7	1.419	2.391	4.7	19.0
2 1	8 47.40	+25 40.5	1.421	2.399	3.5	18.9
2 11	8 37.39	+26 13.1	1.450	2.408	7.3	19.1
2 21	8 29.04	+26 29.4	1.505	2.417	11.5	19.4
3 2	8 23.34	+26 29.4	1.583	2.425	15.3	19.7

226973 2004 WZ_5 1 30.5 31.°98 3.°3/ 1.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.17	+ 9 24.8	1.829	2.592	16.4	20.0
1 2	9 11.30	+ 8 56.5	1.747	2.598	13.3	19.8
1 12	9 4.97	+ 8 41.3	1.685	2.604	9.6	19.5
1 22	8 56.75	+ 8 39.1	1.648	2.610	5.7	19.3
2 1	8 47.56	+ 8 48.1	1.638	2.616	3.3	19.2
2 11	8 38.55	+ 9 5.0	1.657	2.623	5.5	19.3
2 21	8 30.79	+ 9 26.3	1.703	2.630	9.3	19.6
3 2	8 25.13	+ 9 48.0	1.773	2.637	12.9	19.8

164316 2005 AP_{32} 1 30.5 57.°75 0.°9/30.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.37	+13 19.0	1.356	2.148	19.7	20.4
1 2	9 14.42	+13 37.7	1.300	2.173	15.5	20.2
1 12	9 7.31	+14 12.8	1.263	2.198	10.6	20.0
1 22	8 57.87	+14 59.7	1.250	2.223	5.1	19.7
2 1	8 47.39	+15 51.9	1.264	2.248	1.0	19.5
2 11	8 37.44	+16 42.1	1.304	2.274	6.1	19.9
2 21	8 29.36	+17 24.8	1.370	2.299	10.9	20.3
3 2	8 24.08	+17 56.7	1.460	2.325	15.1	20.6

137959 2000 CZ_{18} 1 30.5 285.°99 0.°4/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.29	+14 50.5	1.722	2.506	16.4	19.5
1 2	9 11.85	+15 5.8	1.628	2.497	13.1	19.2
1 12	9 5.65	+15 34.1	1.554	2.488	9.0	18.9
1 22	8 57.21	+16 12.1	1.506	2.479	4.4	18.6
2 1	8 47.47	+16 55.1	1.485	2.470	0.7	18.3
2 11	8 37.74	+17 37.3	1.492	2.460	5.6	18.7
2 21	8 29.26	+18 13.7	1.526	2.451	10.3	18.9
3 2	8 23.10	+18 41.1	1.584	2.443	14.5	19.2

341443 2007 TY_{246} 1 30.5 64.°55 1.°9/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.92	+12 25.4	2.255	3.012	13.8	20.2
1 2	9 11.37	+12 3.0	2.169	3.020	11.0	20.0
1 12	9 4.73	+11 49.4	2.106	3.028	7.8	19.8
1 22	8 56.56	+11 43.7	2.070	3.037	4.2	19.6
2 1	8 47.62	+11 44.1	2.064	3.045	1.9	19.4
2 11	8 38.86	+11 48.2	2.087	3.054	4.5	19.6
2 21	8 31.15	+11 53.7	2.139	3.063	7.9	19.8
3 2	8 25.21	+11 58.4	2.218	3.071	11.1	20.1

327039 2004 RY_{356} 1 30.5 130.°48 4.°6/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.38	+29 26.1	2.165	2.951	13.4	21.1
1 2	9 14.48	+30 18.5	2.090	2.959	10.6	20.9
1 12	9 7.05	+31 11.4	2.039	2.967	7.6	20.8
1 22	8 57.71	+31 58.0	2.015	2.975	5.1	20.6
2 1	8 47.42	+32 32.3	2.020	2.982	5.0	20.6
2 11	8 37.36	+32 50.0	2.054	2.989	7.3	20.8
2 21	8 28.63	+32 50.1	2.115	2.996	10.3	21.0
3 2	8 22.07	+32 34.1	2.201	3.002	13.0	21.2

174500 2003 BN_{42} 1 30.5 4.°50 1.°5/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.39	+14 20.2	1.912	2.689	15.3	19.4
1 2	9 10.65	+13 57.4	1.825	2.689	12.2	19.2
1 12	9 4.52	+13 43.5	1.760	2.690	8.5	19.0
1 22	8 56.54	+13 37.2	1.721	2.691	4.4	18.7
2 1	8 47.63	+13 36.3	1.710	2.693	1.5	18.5
2 11	8 38.87	+13 38.0	1.727	2.696	5.0	18.8
2 21	8 31.32	+13 39.8	1.772	2.699	9.0	19.0
3 2	8 25.80	+13 39.5	1.841	2.703	12.6	19.2

462271 2008 ES_{131} 1 30.5 19.°01 5.°0/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.00	+24 37.0	1.139	1.973	20.0	20.1
1 2	9 11.21	+25 36.8	1.084	1.983	15.6	19.8
1 12	9 5.69	+26 43.8	1.049	1.995	10.7	19.6
1 22	8 57.29	+27 48.1	1.036	2.008	6.2	19.4
2 1	8 47.50	+28 38.9	1.047	2.022	5.5	19.4
2 11	8 38.25	+29 8.4	1.082	2.038	9.4	19.6
2 21	8 31.15	+29 14.3	1.140	2.056	14.0	19.9
3 2	8 27.32	+28 58.5	1.218	2.074	18.0	20.2

412756 2014 OE_{377} 1 30.5 264.°93 3.°5/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.34	+24 17.6	1.600	2.398	16.9	21.2
1 2	9 16.19	+24 49.0	1.513	2.392	13.3	21.0
1 12	9 8.78	+25 26.0	1.447	2.385	9.2	20.7
1 22	8 58.74	+26 1.8	1.406	2.378	5.0	20.4
2 1	8 47.24	+26 29.2	1.393	2.371	3.8	20.4
2 11	8 35.86	+26 42.2	1.407	2.363	7.6	20.6
2 21	8 26.12	+26 38.5	1.447	2.356	12.1	20.8
3 2	8 19.18	+26 19.1	1.510	2.349	16.1	21.0

365163 2009 DK_{124} 1 30.5 330.°87 1.°9/31.5 14 C

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.65	+11 3.4	1.373	2.170	19.2	21.2
1 2	9 9.65	+11 16.6	1.284	2.159	15.5	21.0
1 12	9 4.53	+11 49.8	1.215	2.148	11.0	20.7
1 22	8 56.82	+12 41.2	1.167	2.138	5.8	20.3
2 1	8 47.56	+13 45.3	1.146	2.129	1.9	20.1
2 11	8 38.26	+14 54.3	1.150	2.121	6.4	20.3
2 21	8 30.43	+16 0.0	1.179	2.114	11.7	20.6
3 2	8 25.30	+16 56.1	1.230	2.107	16.5	20.9

404147 2013 CF_{24} 1 30.5 331.°08 3.°0/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.90	+24 4.6	1.302	2.116	19.2	20.6
1 2	9 16.51	+24 6.9	1.219	2.105	15.2	20.3
1 12	9 9.36	+24 13.3	1.155	2.096	10.5	20.0
1 22	8 59.12	+24 17.8	1.113	2.087	5.4	19.7
2 1	8 47.17	+24 13.5	1.098	2.079	3.3	19.5
2 11	8 35.41	+23 55.7	1.108	2.071	8.0	19.8
2 21	8 25.65	+23 23.5	1.142	2.065	13.3	20.0
3 2	8 19.20	+22 38.7	1.197	2.059	18.0	20.3

64239 2001 TH_{137} 1 30.5 190.°63 3.°5/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.47	+26 32.7	2.582	3.366	11.6	19.5
1 2	9 10.32	+27 34.4	2.495	3.365	9.1	19.3
1 12	9 4.12	+28 39.1	2.433	3.364	6.3	19.2
1 22	8 56.33	+29 41.6	2.399	3.363	4.0	19.0
2 1	8 47.67	+30 36.2	2.395	3.362	3.9	19.0
2 11	8 39.07	+31 18.6	2.422	3.360	6.1	19.1
2 21	8 31.38	+31 46.3	2.476	3.358	8.9	19.3
3 2	8 25.37	+31 59.2	2.555	3.356	11.4	19.5

224626 2005 YV_{113} 1 30.5 208.°80 2.°1/29.1 18

12 23	9 15.97	+21 34.2	2.141	2.925	13.6	21.0
1 2	9 11.82	+22 13.2	2.051	2.922	10.7	20.8
1 12	9 5.30	+22 58.7	1.984	2.920	7.2	20.5
1 22	8 56.94	+23 45.8	1.945	2.917	3.6	20.3
2 1	8 47.57	+24 29.1	1.935	2.915	2.5	20.2
2 11	8 38.29	+25 3.7	1.954	2.912	5.7	20.4
2 21	8 30.11	+25 26.6	2.002	2.909	9.4	20.6
3 2	8 23.91	+25 36.9	2.074	2.905	12.6	20.8

171375 2006 OH 1 30.5 94.°39 1.°0/31.2 18

12 23	9 15.46	+14 13.8	2.396	3.156	13.0	20.7
1 2	9 10.90	+14 8.0	2.312	3.167	10.3	20.5
1 12	9 4.36	+14 10.2	2.251	3.177	7.1	20.3
1 22	8 56.38	+14 18.5	2.218	3.188	3.6	20.1
2 1	8 47.69	+14 30.7	2.214	3.198	1.0	19.9
2 11	8 39.18	+14 43.7	2.241	3.209	4.1	20.2
2 21	8 31.66	+14 55.4	2.297	3.219	7.5	20.4
3 2	8 25.81	+15 3.7	2.380	3.229	10.6	20.6

185321 Kammerlander 1 30.5 13.°56 0.°6/30.8 18

12 23	9 17.47	+16 52.2	1.495	2.290	18.0	19.8
1 2	9 13.77	+16 35.2	1.416	2.292	14.3	19.6
1 12	9 6.99	+16 27.6	1.358	2.295	9.8	19.3
1 22	8 57.82	+16 26.7	1.324	2.298	4.7	19.0
2 1	8 47.43	+16 28.8	1.317	2.302	0.9	18.7
2 11	8 37.31	+16 30.2	1.337	2.306	6.0	19.1
2 21	8 28.82	+16 28.1	1.383	2.312	10.9	19.4
3 2	8 23.01	+16 20.8	1.451	2.317	15.1	19.7

384600 2010 OV_{97} 1 30.5 221.°03 2.°3/ 1.3 17

12 23	9 13.35	+ 8 51.3	2.885	3.619	11.6	21.6
1 2	9 9.04	+ 8 40.8	2.777	3.612	9.4	21.4
1 12	9 3.04	+ 8 39.6	2.693	3.604	6.8	21.2
1 22	8 55.77	+ 8 47.3	2.636	3.595	4.1	21.1
2 1	8 47.79	+ 9 2.3	2.610	3.587	2.3	20.9
2 11	8 39.82	+ 9 22.4	2.614	3.578	3.9	21.0
2 21	8 32.54	+ 9 45.2	2.648	3.568	6.7	21.2
3 2	8 26.58	+10 8.1	2.709	3.559	9.4	21.3

395301 2011 LT 1 30.5 234.°30 3.°1/ 1.2 18

12 23	9 17.60	+ 8 42.4	1.616	2.382	18.1	21.6
1 2	9 13.85	+ 8 40.7	1.520	2.373	14.8	21.3
1 12	9 7.14	+ 8 57.0	1.443	2.364	10.7	21.0
1 22	8 57.99	+ 9 30.5	1.390	2.354	6.2	20.8
2 1	8 47.39	+10 18.1	1.364	2.344	3.1	20.5
2 11	8 36.70	+11 14.0	1.365	2.334	6.1	20.7
2 21	8 27.32	+12 11.5	1.394	2.323	10.8	20.9
3 2	8 20.40	+13 5.0	1.447	2.311	15.2	21.2

4960 Mayo 1 30.5 79.°25 0.°1/30.5 18

12 23	9 14.18	+16 3.6	2.190	2.964	13.7	18.1
1 2	9 10.17	+16 24.4	2.109	2.973	10.7	18.0
1 12	9 4.02	+16 54.2	2.051	2.983	7.3	17.8
1 22	8 56.28	+17 29.7	2.019	2.992	3.4	17.5
2 1	8 47.72	+18 7.1	2.017	3.002	0.6	17.3
2 11	8 39.34	+18 41.9	2.044	3.011	4.6	17.6
2 21	8 32.01	+19 11.0	2.100	3.020	8.2	17.9
3 2	8 26.49	+19 32.3	2.182	3.030	11.5	18.1

326996 2004 QJ_4 1 30.5 235.°66 6.°1/26.4 18

12 23	9 21.00	+33 18.9	2.140	2.925	13.6	20.9
1 2	9 16.11	+34 18.8	2.052	2.916	11.0	20.7
1 12	9 8.41	+35 17.4	1.987	2.907	8.3	20.5
1 22	8 58.48	+36 7.1	1.949	2.897	6.3	20.3
2 1	8 47.33	+36 40.6	1.939	2.887	6.5	20.3
2 11	8 36.26	+36 53.1	1.958	2.877	8.7	20.4
2 21	8 26.55	+36 43.7	2.002	2.866	11.5	20.6
3 2	8 19.21	+36 14.7	2.070	2.855	14.3	20.8

226849 2004 SX_{46} 1 30.5 77.°85 0.°7/30.1 18

12 23	9 16.67	+18 23.9	1.949	2.731	14.9	20.5
1 2	9 12.41	+18 38.9	1.869	2.738	11.6	20.3
1 12	9 5.69	+19 1.7	1.811	2.746	7.9	20.0
1 22	8 57.11	+19 28.5	1.779	2.753	3.7	19.8
2 1	8 47.58	+19 55.0	1.776	2.761	1.1	19.6
2 11	8 38.27	+20 16.8	1.803	2.768	5.2	19.9
2 21	8 30.22	+20 31.2	1.857	2.776	9.2	20.2
3 2	8 24.28	+20 36.8	1.936	2.783	12.7	20.4

500210 2012 HN_{30} 1 30.5 295.°65 7.°8/24.9 18

	h m	° ′			°	m
12 23	9 17.90	+34 0.9	1.805	2.606	15.1	20.6
1 2	9 14.37	+35 34.1	1.722	2.595	12.3	20.4
1 12	9 7.64	+37 7.6	1.663	2.583	9.6	20.2
1 22	8 58.27	+38 31.3	1.629	2.572	7.9	20.1
2 1	8 47.35	+39 35.0	1.622	2.561	8.4	20.1
2 11	8 36.43	+40 11.7	1.642	2.551	10.8	20.2
2 21	8 27.05	+40 19.6	1.685	2.540	13.8	20.3
3 2	8 20.41	+40 1.3	1.749	2.529	16.7	20.5

448201 2008 UD_{143} 1 30.5 57.°46 9.°1/ 4.5 18

12 23	9 15.28	− 2 44.6	1.458	2.189	21.2	21.1
1 2	9 12.02	− 3 43.3	1.384	2.197	18.2	20.9
1 12	9 5.82	− 4 16.1	1.326	2.205	14.8	20.7
1 22	8 57.30	− 4 18.9	1.289	2.214	11.4	20.5
2 1	8 47.55	− 3 50.8	1.276	2.223	9.3	20.4
2 11	8 37.96	− 2 55.4	1.288	2.232	9.7	20.4
2 21	8 29.88	− 1 40.5	1.324	2.241	12.3	20.6
3 2	8 24.33	− 0 15.8	1.383	2.251	15.6	20.8

451090 2009 BX_{176} 1 30.5 3.°87 1.°7/29.9 18

12 23	9 14.53	+20 25.7	1.134	1.961	20.6	20.9
1 2	9 12.47	+20 30.2	1.065	1.960	16.2	20.6
1 12	9 6.66	+20 44.3	1.014	1.960	11.0	20.3
1 22	8 57.85	+21 2.8	0.985	1.961	5.2	20.0
2 1	8 47.46	+21 18.6	0.980	1.964	2.2	19.8
2 11	8 37.41	+21 25.5	0.999	1.968	7.7	20.1
2 21	8 29.46	+21 20.6	1.041	1.973	13.2	20.4
3 2	8 24.82	+21 3.5	1.104	1.980	18.0	20.7

419016 2009 QE_7 1 30.5 110.°59 3.°8/ 2.5 18

12 23	9 16.29	+ 3 47.8	2.339	3.058	14.4	22.5
1 2	9 11.49	+ 3 44.2	2.262	3.081	11.8	22.3
1 12	9 4.74	+ 3 56.0	2.206	3.103	8.8	22.2
1 22	8 56.57	+ 4 22.6	2.177	3.125	5.8	22.0
2 1	8 47.71	+ 5 1.7	2.177	3.146	3.9	21.9
2 11	8 39.06	+ 5 49.6	2.207	3.166	5.0	22.0
2 21	8 31.42	+ 6 42.0	2.266	3.186	7.7	22.2
3 2	8 25.45	+ 7 34.5	2.352	3.205	10.6	22.5

327452 2005 WU_{153} 1 30.5 133.°31 2.°0/29.1 18

12 23	9 15.47	+19 53.3	1.968	2.755	14.6	20.5
1 2	9 11.61	+20 44.5	1.885	2.758	11.4	20.3
1 12	9 5.26	+21 44.6	1.824	2.761	7.7	20.1
1 22	8 56.97	+22 48.3	1.790	2.764	3.7	19.8
2 1	8 47.63	+23 49.1	1.786	2.767	2.4	19.7
2 11	8 38.40	+24 41.0	1.810	2.769	5.9	20.0
2 21	8 30.36	+25 20.1	1.862	2.772	9.8	20.2
3 2	8 24.42	+25 44.8	1.939	2.774	13.2	20.4

133197 2003 QS_{59} 1 30.5 193.°64 2.°6/28.9 18

12 23	9 20.65	+22 53.5	2.170	2.946	13.7	20.7
1 2	9 15.50	+23 35.3	2.077	2.944	10.8	20.5
1 12	9 7.82	+24 22.6	2.008	2.941	7.3	20.3
1 22	8 58.17	+25 10.1	1.966	2.937	3.9	20.1
2 1	8 47.43	+25 51.9	1.955	2.933	2.9	20.0
2 11	8 36.74	+26 23.0	1.974	2.927	6.0	20.2
2 21	8 27.23	+26 41.0	2.021	2.921	9.7	20.4
3 2	8 19.81	+26 45.3	2.093	2.914	12.9	20.6

489694 2007 VN_{108} 1 30.5 198.°10 2.°8/ 1.2 18

12 23	9 17.35	+ 8 53.0	1.973	2.724	15.8	22.1
1 2	9 12.98	+ 8 47.3	1.877	2.722	12.8	21.9
1 12	9 6.17	+ 8 55.8	1.803	2.719	9.2	21.7
1 22	8 57.41	+ 9 17.7	1.753	2.716	5.4	21.4
2 1	8 47.56	+ 9 50.3	1.733	2.712	2.8	21.3
2 11	8 37.74	+10 29.6	1.741	2.708	5.3	21.4
2 21	8 29.03	+11 11.0	1.778	2.703	9.2	21.6
3 2	8 22.35	+11 50.2	1.841	2.698	12.8	21.8

262221 2006 SA_{261} 1 30.5 63.°43 1.°1/29.9 18

12 23	9 17.78	+18 49.9	1.645	2.437	16.8	20.6
1 2	9 13.73	+19 10.2	1.571	2.446	13.1	20.4
1 12	9 6.82	+19 39.8	1.518	2.455	8.8	20.2
1 22	8 57.72	+20 13.8	1.491	2.465	4.1	19.9
2 1	8 47.52	+20 46.5	1.491	2.475	1.5	19.7
2 11	8 37.60	+21 12.6	1.519	2.484	6.0	20.1
2 21	8 29.23	+21 28.8	1.574	2.494	10.5	20.3
3 2	8 23.34	+21 34.0	1.652	2.504	14.3	20.6

452225 2015 RZ_{237} 1 30.5 64.°40 1.°9/29.4 18

12 23	9 16.55	+16 58.7	1.390	2.192	18.8	21.5
1 2	9 13.29	+18 6.1	1.324	2.206	14.6	21.2
1 12	9 6.81	+19 29.3	1.279	2.220	9.8	21.0
1 22	8 57.80	+21 0.7	1.259	2.233	4.6	20.7
2 1	8 47.50	+22 30.2	1.265	2.248	2.4	20.6
2 11	8 37.50	+23 47.9	1.298	2.262	7.1	21.0
2 21	8 29.26	+24 47.8	1.358	2.276	12.0	21.3
3 2	8 23.84	+25 27.6	1.439	2.290	16.1	21.6

124149 2001 MG_{22} 1 30.5 162.°12 3.°0/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.54	+23 16.6	1.803	2.588	15.8	20.4
1 2	9 17.39	+23 58.0	1.723	2.594	12.4	20.2
1 12	9 9.29	+24 45.3	1.665	2.599	8.4	20.0
1 22	8 58.90	+25 32.1	1.633	2.604	4.5	19.7
2 1	8 47.31	+26 11.4	1.630	2.608	3.4	19.7
2 11	8 35.94	+26 37.5	1.656	2.611	6.9	19.9
2 21	8 26.10	+26 48.1	1.710	2.613	10.9	20.1
3 2	8 18.79	+26 43.7	1.787	2.615	14.5	20.4

330769 2008 SE_{296} 1 30.5 123.°45 5.°2/26.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.97	+32 24.4	2.577	3.355	11.7	21.6
1 2	9 13.84	+33 40.5	2.511	3.373	9.3	21.5
1 12	9 6.48	+34 55.1	2.471	3.389	7.0	21.3
1 22	8 57.45	+36 1.7	2.459	3.405	5.3	21.3
2 1	8 47.58	+36 54.3	2.476	3.420	5.5	21.3
2 11	8 37.90	+37 29.1	2.523	3.435	7.3	21.4
2 21	8 29.35	+37 45.0	2.598	3.450	9.6	21.6
3 2	8 22.70	+37 43.5	2.696	3.464	11.8	21.8

148570 2001 QK_{255} 1 30.5 64.°99 0.°4/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.91	+19 26.7	1.660	2.443	17.0	19.8
1 2	9 17.45	+19 12.8	1.594	2.464	13.3	19.6
1 12	9 9.11	+19 4.9	1.551	2.485	9.0	19.4
1 22	8 58.69	+18 59.8	1.533	2.506	4.2	19.2
2 1	8 47.39	+18 53.7	1.543	2.528	0.9	19.0
2 11	8 36.61	+18 43.6	1.582	2.549	5.6	19.4
2 21	8 27.57	+18 28.5	1.649	2.571	10.0	19.7
3 2	8 21.12	+18 8.0	1.740	2.592	13.7	20.0

496746 2016 JZ_{26} 1 30.5 13.°10 4.°7/ 2.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.79	+ 2 49.2	2.051	2.786	15.7	21.2
1 2	9 8.49	+ 2 36.9	1.960	2.786	13.1	21.1
1 12	9 3.03	+ 2 42.4	1.889	2.787	10.0	20.9
1 22	8 55.89	+ 3 6.1	1.842	2.788	6.8	20.7
2 1	8 47.84	+ 3 46.4	1.823	2.790	4.8	20.5
2 11	8 39.85	+ 4 39.5	1.832	2.791	5.8	20.6
2 21	8 32.85	+ 5 40.1	1.868	2.793	8.8	20.8
3 2	8 27.63	+ 6 42.6	1.930	2.795	12.0	21.0

115992 2003 WV_{65} 1 30.5 42.°19 5.°5/ 2.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.35	+ 2 37.9	1.882	2.619	16.9	19.3
1 2	9 9.76	+ 2 2.6	1.806	2.632	14.0	19.1
1 12	9 3.88	+ 1 45.2	1.750	2.646	10.8	18.9
1 22	8 56.27	+ 1 46.7	1.717	2.660	7.6	18.7
2 1	8 47.79	+ 2 6.3	1.711	2.674	5.6	18.7
2 11	8 39.52	+ 2 40.6	1.733	2.688	6.5	18.7
2 21	8 32.42	+ 3 24.8	1.781	2.703	9.3	18.9
3 2	8 27.27	+ 4 13.2	1.854	2.718	12.4	19.2

522483 2016 EJ_{222} 1 30.5 169.°20 0.°7/31.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.41	+13 6.0	2.772	3.527	11.6	21.9
1 2	9 8.38	+13 29.0	2.677	3.529	9.2	21.7
1 12	9 2.64	+14 1.2	2.606	3.532	6.3	21.5
1 22	8 55.62	+14 40.3	2.563	3.534	3.1	21.3
2 1	8 47.91	+15 23.2	2.551	3.535	0.7	21.1
2 11	8 40.25	+16 6.4	2.569	3.537	3.7	21.3
2 21	8 33.36	+16 46.7	2.617	3.538	6.8	21.5
3 2	8 27.84	+17 21.7	2.693	3.538	9.6	21.7

200654 2001 TN_{17} 1 30.5 123.°63 2.°5/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.73	+20 51.1	1.822	2.603	15.8	20.9
1 2	9 16.56	+21 48.3	1.752	2.622	12.3	20.7
1 12	9 8.60	+22 53.6	1.705	2.640	8.3	20.5
1 22	8 58.53	+24 0.4	1.684	2.656	4.1	20.3
2 1	8 47.41	+25 1.2	1.693	2.673	2.9	20.3
2 11	8 36.59	+25 49.6	1.732	2.688	6.5	20.5
2 21	8 27.28	+26 22.6	1.798	2.703	10.4	20.8
3 2	8 20.40	+26 39.7	1.889	2.716	13.8	21.0

13652 Elowitz 1 30.5 142.°17 0.°7/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.78	+12 41.0	1.771	2.538	16.7	19.5
1 2	9 15.08	+13 14.9	1.691	2.550	13.2	19.2
1 12	9 7.66	+14 3.8	1.633	2.561	9.1	19.0
1 22	8 58.13	+15 3.9	1.600	2.572	4.5	18.8
2 1	8 47.48	+16 9.3	1.597	2.581	0.8	18.5
2 11	8 37.01	+17 13.1	1.622	2.590	5.4	18.9
2 21	8 27.93	+18 9.7	1.677	2.598	9.8	19.1
3 2	8 21.18	+18 55.7	1.756	2.606	13.7	19.4

411798 2012 CO_{51} 1 30.5 97.°35 0.°6/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.13	+14 55.2	1.800	2.578	16.1	21.4
1 2	9 12.99	+15 2.6	1.718	2.584	12.7	21.2
1 12	9 6.22	+15 21.2	1.658	2.589	8.7	21.0
1 22	8 57.44	+15 48.0	1.623	2.595	4.2	20.7
2 1	8 47.61	+16 18.7	1.616	2.601	0.8	20.5
2 11	8 37.97	+16 48.6	1.638	2.607	5.3	20.8
2 21	8 29.66	+17 13.8	1.688	2.612	9.6	21.1
3 2	8 23.59	+17 31.8	1.762	2.618	13.4	21.3

132309 2002 GV_{12} 1 30.5 13.°74 1.°8/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.03	+12 56.7	1.174	1.985	21.0	19.5
1 2	9 11.00	+12 51.2	1.105	1.989	16.8	19.2
1 12	9 5.52	+13 3.6	1.055	1.993	11.7	18.9
1 22	8 57.29	+13 31.4	1.026	1.999	6.0	18.6
2 1	8 47.63	+14 9.5	1.022	2.006	1.8	18.4
2 11	8 38.26	+14 50.5	1.042	2.014	6.7	18.7
2 21	8 30.77	+15 27.9	1.085	2.023	12.2	19.0
3 2	8 26.32	+15 57.0	1.150	2.033	16.9	19.3

227680 2006 CR_{35} 1 30.5 78.°20 2.°0/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.53	+20 30.1	1.948	2.737	14.6	20.4
1 2	9 11.63	+21 15.0	1.870	2.744	11.4	20.2
1 12	9 5.24	+22 7.7	1.815	2.752	7.7	19.9
1 22	8 56.96	+23 2.9	1.787	2.760	3.8	19.7
2 1	8 47.69	+23 54.5	1.787	2.768	2.4	19.6
2 11	8 38.61	+24 36.9	1.816	2.775	5.9	19.9
2 21	8 30.77	+25 6.9	1.873	2.783	9.7	20.1
3 2	8 25.04	+25 23.3	1.954	2.791	13.0	20.3

382704 2002 VJ_{142} 1 30.5 105.°09 4.°5/27.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.98	+28 57.4	2.322	3.110	12.6	21.1
1 2	9 11.74	+29 59.7	2.246	3.117	9.9	21.0
1 12	9 5.19	+31 3.1	2.194	3.123	7.1	20.8
1 22	8 56.90	+32 1.5	2.170	3.129	4.8	20.7
2 1	8 47.71	+32 48.8	2.175	3.135	4.8	20.7
2 11	8 38.67	+33 20.6	2.209	3.141	7.0	20.8
2 21	8 30.76	+33 35.2	2.270	3.147	9.8	21.0
3 2	8 24.79	+33 33.4	2.355	3.153	12.4	21.2

81701 2000 JX_{19} 1 30.5 274.°85 3.°3/ 1.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.07	+ 9 12.4	1.848	2.608	16.4	19.8
1 2	9 12.25	+ 8 49.3	1.747	2.596	13.4	19.6
1 12	9 5.84	+ 8 39.6	1.666	2.584	9.7	19.3
1 22	8 57.34	+ 8 43.2	1.611	2.573	5.8	19.1
2 1	8 47.62	+ 8 58.5	1.583	2.561	3.3	18.9
2 11	8 37.84	+ 9 22.2	1.583	2.549	5.7	19.0
2 21	8 29.20	+ 9 50.2	1.611	2.537	9.8	19.2
3 2	8 22.67	+10 18.3	1.663	2.526	13.7	19.4

464072 2014 WM_{273} 1 30.6 52.°12 0.°6/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.53	+15 51.6	1.704	2.493	16.4	21.0
1 2	9 11.06	+16 31.9	1.634	2.507	12.8	20.8
1 12	9 4.94	+17 24.9	1.586	2.522	8.6	20.6
1 22	8 56.84	+18 25.7	1.562	2.537	4.0	20.4
2 1	8 47.73	+19 27.7	1.567	2.552	1.0	20.2
2 11	8 38.89	+20 24.3	1.600	2.567	5.6	20.5
2 21	8 31.43	+21 10.8	1.661	2.583	9.9	20.8
3 2	8 26.25	+21 44.5	1.745	2.598	13.6	21.1

343131 2009 EM_{30} 1 30.6 304.°41 1.°6/31.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.45	+13 45.9	2.269	3.031	13.6	20.4
1 2	9 11.24	+13 22.1	2.162	3.017	10.9	20.2
1 12	9 4.86	+13 5.9	2.079	3.003	7.7	19.9
1 22	8 56.78	+12 56.1	2.022	2.990	4.1	19.7
2 1	8 47.74	+12 51.2	1.994	2.976	1.6	19.5
2 11	8 38.70	+12 49.1	1.996	2.963	4.6	19.7
2 21	8 30.60	+12 47.6	2.026	2.950	8.3	19.9
3 2	8 24.25	+12 45.0	2.083	2.937	11.7	20.0

52456 1995 AY_3 1 30.6 347.°08 3.°8/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.52	+21 48.4	1.352	2.174	18.1	18.2
1 2	9 9.79	+22 52.7	1.273	2.166	14.3	17.9
1 12	9 4.76	+24 9.4	1.214	2.158	9.7	17.6
1 22	8 57.01	+25 30.4	1.178	2.152	5.2	17.4
2 1	8 47.69	+26 45.4	1.169	2.146	4.4	17.3
2 11	8 38.44	+27 44.7	1.184	2.142	8.5	17.5
2 21	8 30.84	+28 22.8	1.224	2.139	13.3	17.8
3 2	8 26.13	+28 38.4	1.284	2.137	17.5	18.0

241329 2007 VV_{158} 1 30.6 258.°22 3.°7/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.44	+26 43.7	2.457	3.244	12.0	21.1
1 2	9 10.51	+27 43.1	2.363	3.234	9.5	20.9
1 12	9 4.41	+28 46.0	2.293	3.225	6.6	20.7
1 22	8 56.58	+29 46.8	2.251	3.215	4.2	20.6
2 1	8 47.79	+30 39.7	2.239	3.206	4.1	20.6
2 11	8 38.99	+31 19.9	2.256	3.196	6.4	20.7
2 21	8 31.13	+31 45.0	2.301	3.186	9.4	20.8
3 2	8 25.03	+31 54.4	2.371	3.176	12.1	21.0

7279 Hagfors 1 30.6 92.°74 2.°1/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.41	+22 50.7	2.398	3.176	12.5	18.2
1 2	9 11.73	+23 21.8	2.325	3.193	9.7	18.0
1 12	9 4.99	+23 56.6	2.276	3.210	6.5	17.8
1 22	8 56.74	+24 30.9	2.254	3.226	3.3	17.6
2 1	8 47.78	+25 0.2	2.263	3.242	2.4	17.6
2 11	8 39.06	+25 21.1	2.302	3.258	5.1	17.8
2 21	8 31.43	+25 31.8	2.370	3.274	8.2	18.0
3 2	8 25.58	+25 32.1	2.463	3.289	11.0	18.2

431279 2006 UA_{139} 1 30.6 173.°16 3.°6/ 2.9 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 12.22	+ 2 6.0	3.379	4.075	10.8	22.3
1 2	9 7.86	+ 1 51.3	3.277	4.078	9.0	22.1
1 12	9 2.11	+ 1 47.6	3.199	4.081	6.9	22.0
1 22	8 55.34	+ 1 54.9	3.148	4.083	4.9	21.9
2 1	8 48.02	+ 2 12.6	3.126	4.085	3.6	21.8
2 11	8 40.74	+ 2 38.8	3.136	4.086	4.2	21.8
2 21	8 34.06	+ 3 11.0	3.175	4.087	6.1	21.9
3 2	8 28.46	+ 3 46.5	3.243	4.087	8.2	22.1

256092 2006 UE_{220} 1 30.6 70.°76 5.°2/27.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 21.04	+27 49.4	1.644	2.444	16.4	20.6
1 2	9 16.37	+28 55.3	1.589	2.466	12.9	20.4
1 12	9 8.60	+30 3.1	1.556	2.489	9.1	20.2
1 22	8 58.56	+31 3.9	1.548	2.511	5.9	20.1
2 1	8 47.48	+31 49.4	1.568	2.534	5.6	20.1
2 11	8 36.90	+32 14.5	1.615	2.556	8.4	20.4
2 21	8 28.13	+32 18.3	1.689	2.578	11.9	20.6
3 2	8 22.10	+32 3.1	1.784	2.600	15.0	20.9

506310 2017 OV 1 30.6 219.°72 5.°0/ 2.9 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.59	+ 1 56.0	2.334	3.048	14.6	21.8
1 2	9 10.47	+ 1 32.0	2.229	3.041	12.2	21.6
1 12	9 4.30	+ 1 23.4	2.146	3.034	9.5	21.4
1 22	8 56.52	+ 1 31.1	2.088	3.026	6.8	21.2
2 1	8 47.82	+ 1 54.5	2.058	3.018	5.0	21.1
2 11	8 39.09	+ 2 31.3	2.057	3.010	5.9	21.1
2 21	8 31.21	+ 3 17.3	2.085	3.001	8.5	21.3
3 2	8 24.95	+ 4 7.9	2.138	2.992	11.4	21.4

293791 2007 RJ_{139} 1 30.6 175.°29 1.°8/31.7 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.73	+11 2.1	2.077	2.829	15.0	22.1
1 2	9 13.92	+11 9.1	1.984	2.832	12.1	21.9
1 12	9 6.72	+11 29.0	1.913	2.834	8.5	21.7
1 22	8 57.68	+11 59.6	1.869	2.836	4.6	21.4
2 1	8 47.63	+12 37.7	1.854	2.837	1.8	21.2
2 11	8 37.65	+13 18.8	1.870	2.837	4.8	21.4
2 21	8 28.79	+13 58.7	1.914	2.836	8.8	21.7
3 2	8 21.90	+14 33.9	1.984	2.835	12.3	21.9

89537 2001 XJ_{85} 1 30.6 328.°38 1.°7/29.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.41	+17 36.8	1.814	2.606	15.5	18.9
1 2	9 10.30	+18 39.6	1.727	2.602	12.1	18.7
1 12	9 4.58	+19 55.6	1.661	2.599	8.2	18.4
1 22	8 56.77	+21 19.0	1.622	2.596	3.9	18.2
2 1	8 47.77	+22 42.4	1.611	2.594	2.1	18.1
2 11	8 38.78	+23 57.8	1.630	2.591	6.2	18.3
2 21	8 30.99	+24 59.6	1.675	2.589	10.4	18.5
3 2	8 25.38	+25 44.9	1.744	2.587	14.1	18.8

67978 2000 XE_{10} 1 30.6 94.°88 0.°8/30.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 25.24	+19 37.6	1.741	2.516	16.6	19.1
1 2	9 19.16	+19 36.2	1.675	2.540	13.0	18.9
1 12	9 10.24	+19 41.0	1.631	2.563	8.8	18.7
1 22	8 59.26	+19 48.0	1.613	2.586	4.1	18.5
2 1	8 47.41	+19 52.8	1.624	2.609	1.2	18.3
2 11	8 36.08	+19 52.0	1.666	2.631	5.6	18.7
2 21	8 26.46	+19 44.3	1.735	2.652	9.9	19.0
3 2	8 19.42	+19 29.6	1.829	2.673	13.5	19.2

223693 2004 RG_{16} 1 30.6 95.°09 0.°2/30.5 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.03	+16 51.9	2.015	2.790	14.7	20.8
1 2	9 12.59	+17 5.2	1.936	2.801	11.5	20.6
1 12	9 5.78	+17 27.1	1.880	2.812	7.8	20.4
1 22	8 57.20	+17 54.3	1.850	2.823	3.7	20.1
2 1	8 47.74	+18 22.5	1.849	2.834	0.7	19.9
2 11	8 38.51	+18 47.7	1.878	2.845	4.9	20.3
2 21	8 30.50	+19 6.9	1.935	2.856	8.8	20.5
3 2	8 24.51	+19 18.3	2.018	2.866	12.2	20.7

235577 2004 LO_{28} 1 30.6 294.°03 4.°0/ 1.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.50	+ 7 21.9	1.437	2.213	19.5	20.9
1 2	9 11.82	+ 7 11.0	1.343	2.201	16.1	20.6
1 12	9 6.04	+ 7 20.7	1.267	2.188	11.8	20.3
1 22	8 57.64	+ 7 51.3	1.213	2.176	7.2	20.0
2 1	8 47.64	+ 8 40.3	1.185	2.164	4.0	19.8
2 11	8 37.52	+ 9 41.7	1.183	2.152	6.8	19.9
2 21	8 28.77	+10 47.7	1.206	2.140	11.6	20.2
3 2	8 22.67	+11 51.1	1.252	2.128	16.3	20.4

291319 2006 BV_{170} 1 30.6 185.°24 0.°1/30.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 17.77	+14 3.4	1.833	2.605	16.0	21.4
1 2	9 13.62	+14 43.4	1.743	2.606	12.7	21.1
1 12	9 6.79	+15 38.1	1.674	2.605	8.7	20.9
1 22	8 57.82	+16 43.1	1.632	2.605	4.1	20.6
2 1	8 47.64	+17 52.5	1.618	2.603	0.7	20.3
2 11	8 37.50	+18 59.3	1.635	2.601	5.5	20.7
2 21	8 28.59	+19 57.7	1.679	2.599	9.9	20.9
3 2	8 21.91	+20 44.2	1.748	2.596	13.8	21.2

522559 2016 EU_{242} 1 30.6 176.°37 0.°1/30.6 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 16.05	+16 7.1	2.260	3.028	13.5	22.1
1 2	9 11.67	+16 19.8	2.168	3.029	10.6	21.9
1 12	9 5.12	+16 40.9	2.100	3.030	7.2	21.6
1 22	8 56.91	+17 7.6	2.058	3.030	3.4	21.4
2 1	8 47.81	+17 36.2	2.046	3.031	0.6	21.2
2 11	8 38.82	+18 3.1	2.064	3.031	4.5	21.5
2 21	8 30.84	+18 25.1	2.111	3.031	8.2	21.7
3 2	8 24.66	+18 40.4	2.184	3.030	11.5	21.9

385138 2013 SA_{67} 1 30.6 153.°09 3.°3/28.0 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.51	+26 38.2	2.550	3.326	11.9	21.6
1 2	9 13.41	+27 24.8	2.469	3.335	9.3	21.4
1 12	9 6.18	+28 13.3	2.413	3.343	6.5	21.2
1 22	8 57.37	+28 58.5	2.385	3.350	3.9	21.1
2 1	8 47.75	+29 35.5	2.388	3.357	3.6	21.1
2 11	8 38.28	+30 0.5	2.421	3.363	5.9	21.2
2 21	8 29.86	+30 11.8	2.482	3.369	8.7	21.4
3 2	8 23.22	+30 10.0	2.570	3.374	11.3	21.6

49794 1999 XH_{32} 1 30.6 162.°99 0.°7/30.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 20.35	+13 24.2	1.878	2.642	16.0	19.0
1 2	9 15.46	+13 46.4	1.792	2.649	12.7	18.8
1 12	9 7.91	+14 21.6	1.727	2.655	8.8	18.6
1 22	8 58.30	+15 6.6	1.689	2.660	4.3	18.3
2 1	8 47.58	+15 56.4	1.680	2.664	0.8	18.1
2 11	8 36.99	+16 45.4	1.700	2.668	5.2	18.4
2 21	8 27.69	+17 28.8	1.749	2.671	9.5	18.7
3 2	8 20.62	+18 3.6	1.824	2.672	13.3	18.9

345533 2006 QL_9 1 30.6 145.°26 3.°2/ 2.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.59	+ 2 32.9	3.040	3.746	11.6	21.7
1 2	9 7.54	+ 2 47.8	2.946	3.756	9.6	21.6
1 12	9 1.99	+ 3 16.1	2.875	3.766	7.3	21.4
1 22	8 55.33	+ 3 57.1	2.830	3.774	4.9	21.3
2 1	8 48.10	+ 4 48.9	2.816	3.783	3.3	21.2
2 11	8 40.92	+ 5 48.2	2.832	3.791	4.1	21.2
2 21	8 34.42	+ 6 51.3	2.879	3.799	6.3	21.4
3 2	8 29.12	+ 7 54.4	2.955	3.806	8.7	21.5

85620 1998 HJ_{107} 1 30.6 347.°17 0.°5/30.2 18 R

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 11.06	+16 9.7	2.017	2.803	14.3	18.8
1 2	9 8.13	+16 46.0	1.926	2.798	11.3	18.6
1 12	9 2.93	+17 33.6	1.858	2.794	7.6	18.3
1 22	8 55.95	+18 28.7	1.816	2.790	3.6	18.1
2 1	8 47.98	+19 26.1	1.802	2.786	0.9	17.9
2 11	8 40.05	+20 20.1	1.817	2.783	5.1	18.1
2 21	8 33.16	+21 6.3	1.860	2.781	9.1	18.4
3 2	8 28.14	+21 41.7	1.927	2.779	12.6	18.6

404232 2013 EZ_3 1 30.6 314.°62 0.°7/30.9 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 15.73	+15 16.2	1.402	2.201	18.8	21.0
1 2	9 12.93	+15 15.9	1.311	2.189	15.0	20.7
1 12	9 6.85	+15 29.3	1.240	2.177	10.4	20.4
1 22	8 58.04	+15 53.6	1.191	2.165	5.1	20.1
2 1	8 47.61	+16 23.7	1.169	2.154	0.9	19.8
2 11	8 37.16	+16 53.8	1.173	2.143	6.5	20.1
2 21	8 28.26	+17 18.6	1.202	2.133	11.9	20.4
3 2	8 22.17	+17 34.8	1.253	2.123	16.7	20.6

109020 2001 QN_7 1 30.6 109.°98 0.°7/30.2 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 18.39	+17 56.5	1.934	2.712	15.1	20.1
1 2	9 13.78	+18 16.6	1.857	2.724	11.8	19.9
1 12	9 6.66	+18 45.2	1.802	2.735	8.0	19.7
1 22	8 57.66	+19 18.3	1.773	2.747	3.7	19.5
2 1	8 47.71	+19 51.0	1.773	2.758	1.1	19.3
2 11	8 38.01	+20 18.7	1.803	2.768	5.3	19.6
2 21	8 29.62	+20 38.5	1.861	2.779	9.3	19.9
3 2	8 23.38	+20 48.9	1.944	2.789	12.8	20.1

376346 2011 HG_{36} 1 30.6 38.°66 2.°0/29.3 18

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 14.85	+20 35.9	1.918	2.709	14.7	21.0
1 2	9 11.18	+21 15.5	1.838	2.713	11.5	20.8
1 12	9 5.02	+22 2.9	1.780	2.718	7.7	20.6
1 22	8 56.93	+22 52.9	1.749	2.723	3.8	20.3
2 1	8 47.83	+23 39.6	1.746	2.727	2.3	20.3
2 11	8 38.89	+24 17.6	1.772	2.732	5.9	20.5
2 21	8 31.20	+24 43.5	1.825	2.738	9.8	20.7
3 2	8 25.63	+24 56.3	1.903	2.743	13.2	21.0

245760 2006 ER_{14} 1 30.6 218.°67 0.°7/30.1 17

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 19.62	+17 49.1	1.983	2.756	14.9	22.2
1 2	9 14.96	+18 12.0	1.884	2.748	11.8	22.0
1 12	9 7.66	+18 44.3	1.807	2.739	8.0	21.7
1 22	8 58.24	+19 22.1	1.756	2.730	3.8	21.5
2 1	8 47.60	+20 0.2	1.735	2.720	1.1	21.2
2 11	8 36.94	+20 33.5	1.744	2.709	5.5	21.5
2 21	8 27.45	+20 58.5	1.781	2.697	9.7	21.7
3 2	8 20.12	+21 13.2	1.843	2.685	13.5	22.0

60600 2000 EG_{157} 1 30.6 272.°68 1.°4/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.26	+16 12.7	1.855	2.640	15.4	19.3
1 2	9 11.06	+17 18.8	1.754	2.626	12.2	19.0
1 12	9 5.22	+18 40.6	1.675	2.611	8.2	18.8
1 22	8 57.18	+20 12.9	1.623	2.597	3.9	18.5
2 1	8 47.77	+21 47.9	1.599	2.582	1.8	18.3
2 11	8 38.21	+23 17.2	1.605	2.567	6.1	18.6
2 21	8 29.73	+24 33.9	1.639	2.553	10.6	18.8
3 2	8 23.39	+25 33.9	1.696	2.538	14.5	19.0

15855 Mariasalvatore 1 30.6 263.°92 0.°2/30.5 18

12 23	9 16.43	+14 55.7	1.564	2.353	17.6	18.9
1 2	9 13.16	+15 27.8	1.471	2.343	14.0	18.6
1 12	9 6.85	+16 15.8	1.398	2.334	9.6	18.3
1 22	8 58.00	+17 15.5	1.350	2.324	4.6	18.0
2 1	8 47.64	+18 20.4	1.329	2.314	0.9	17.7
2 11	8 37.22	+19 22.6	1.336	2.304	6.3	18.0
2 21	8 28.18	+20 15.7	1.369	2.293	11.3	18.3
3 2	8 21.71	+20 55.7	1.425	2.283	15.8	18.5

197559 2004 FU_{125} 1 30.6 247.°28 2.°9/ 1.2 18

12 23	9 17.02	+ 8 38.2	1.624	2.389	18.0	21.2
1 2	9 13.48	+ 8 41.6	1.524	2.378	14.7	20.9
1 12	9 7.01	+ 9 3.7	1.444	2.365	10.7	20.6
1 22	8 58.07	+ 9 43.6	1.388	2.353	6.1	20.3
2 1	8 47.64	+10 37.9	1.359	2.340	2.9	20.1
2 11	8 37.06	+11 40.4	1.357	2.326	6.1	20.3
2 21	8 27.74	+12 44.3	1.383	2.312	10.8	20.5
3 2	8 20.86	+13 43.3	1.433	2.298	15.3	20.7

180604 2004 FX_{89} 1 30.6 0.°61 3.°1/ 1.7 18

12 23	9 12.79	+ 6 22.4	1.724	2.485	17.3	20.3
1 2	9 9.80	+ 6 44.5	1.635	2.485	14.1	20.0
1 12	9 4.25	+ 7 27.4	1.567	2.485	10.3	19.8
1 22	8 56.65	+ 8 29.8	1.522	2.485	6.1	19.6
2 1	8 47.90	+ 9 47.2	1.505	2.485	3.1	19.4
2 11	8 39.18	+11 12.6	1.516	2.485	5.5	19.5
2 21	8 31.66	+12 38.3	1.555	2.486	9.7	19.8
3 2	8 26.28	+13 57.5	1.618	2.486	13.7	20.0

74044 1998 HQ_{98} 1 30.6 242.°09 2.°0/29.4 18

12 23	9 18.90	+20 35.5	1.985	2.765	14.7	19.8
1 2	9 14.53	+21 12.5	1.882	2.751	11.6	19.6
1 12	9 7.47	+21 57.9	1.801	2.736	7.9	19.3
1 22	8 58.21	+22 46.7	1.748	2.721	3.9	19.0
2 1	8 47.63	+23 32.9	1.723	2.704	2.3	18.9
2 11	8 36.96	+24 10.8	1.728	2.688	6.1	19.1
2 21	8 27.42	+24 36.5	1.761	2.670	10.3	19.3
3 2	8 20.08	+24 48.7	1.818	2.653	14.0	19.5

326019 2010 WZ_{63} 1 30.6 324.°13 0.°9/31.1 18

12 23	9 15.47	+14 7.8	1.771	2.551	16.2	20.9
1 2	9 11.87	+14 13.1	1.682	2.548	12.9	20.7
1 12	9 5.62	+14 30.5	1.613	2.545	8.9	20.5
1 22	8 57.29	+14 57.4	1.570	2.542	4.5	20.2
2 1	8 47.80	+15 29.9	1.555	2.539	1.0	19.9
2 11	8 38.39	+16 2.9	1.568	2.537	5.3	20.2
2 21	8 30.24	+16 32.3	1.608	2.535	9.8	20.5
3 2	8 24.32	+16 54.9	1.672	2.532	13.7	20.7

444326 2005 WL_{35} 1 30.6 124.°37 0.°1/30.5 16

12 23	9 22.59	+15 39.7	1.871	2.637	16.0	22.4
1 2	9 17.05	+16 5.8	1.798	2.658	12.5	22.2
1 12	9 8.86	+16 42.8	1.748	2.678	8.5	22.0
1 22	8 58.70	+17 26.3	1.724	2.697	4.0	21.8
2 1	8 47.59	+18 10.9	1.730	2.715	0.7	21.6
2 11	8 36.80	+18 51.4	1.766	2.732	5.3	22.0
2 21	8 27.45	+19 24.0	1.831	2.748	9.4	22.2
3 2	8 20.42	+19 46.9	1.921	2.763	13.0	22.5

320617 2008 CH_{27} 1 30.6 40.°94 2.°2/29.4 18

12 23	9 17.42	+20 54.4	1.576	2.375	17.0	21.4
1 2	9 13.73	+21 26.0	1.501	2.381	13.3	21.1
1 12	9 7.02	+22 6.0	1.447	2.386	9.0	20.9
1 22	8 57.97	+22 48.7	1.419	2.392	4.4	20.6
2 1	8 47.71	+23 27.0	1.417	2.399	2.6	20.5
2 11	8 37.70	+23 55.1	1.443	2.405	6.7	20.8
2 21	8 29.29	+24 9.9	1.495	2.412	11.2	21.1
3 2	8 23.49	+24 10.6	1.569	2.419	15.1	21.3

230900 2004 TT_{59} 1 30.6 161.°40 3.°6/27.9 18

12 23	9 19.05	+27 24.7	2.505	3.281	12.1	21.5
1 2	9 13.92	+28 10.6	2.422	3.287	9.5	21.3
1 12	9 6.59	+28 57.9	2.364	3.293	6.6	21.2
1 22	8 57.61	+29 41.4	2.334	3.298	4.1	21.0
2 1	8 47.78	+30 15.8	2.335	3.302	3.8	21.0
2 11	8 38.10	+30 37.5	2.366	3.306	6.1	21.1
2 21	8 29.50	+30 45.0	2.425	3.310	8.9	21.3
3 2	8 22.74	+30 38.8	2.509	3.312	11.6	21.5

466832 2015 BC_{215} 1 30.6 148.°67 3.°8/27.3 18

	h m	° ′			°	m
12 23	9 16.74	+25 58.5	2.402	3.185	12.4	21.3
1 2	9 12.28	+27 13.0	2.323	3.192	9.7	21.1
1 12	9 5.59	+28 31.3	2.268	3.199	6.7	20.9
1 22	8 57.18	+29 47.3	2.242	3.206	4.3	20.8
2 1	8 47.85	+30 54.5	2.246	3.212	4.1	20.8
2 11	8 38.60	+31 47.6	2.280	3.218	6.5	20.9
2 21	8 30.38	+32 24.1	2.343	3.223	9.4	21.1
3 2	8 24.01	+32 43.8	2.430	3.228	12.0	21.3

163213 2002 EJ_{62} 1 30.6 159.°15 1.°5/31.5 18

12 23	9 18.28	+11 27.5	2.011	2.767	15.3	20.7
1 2	9 13.64	+11 42.2	1.923	2.774	12.2	20.5
1 12	9 6.60	+12 10.2	1.857	2.780	8.5	20.3
1 22	8 57.68	+12 49.0	1.817	2.786	4.5	20.0
2 1	8 47.77	+13 34.8	1.807	2.790	1.5	19.8
2 11	8 37.98	+14 22.5	1.826	2.794	4.9	20.1
2 21	8 29.34	+15 7.5	1.875	2.798	8.9	20.3
3 2	8 22.72	+15 46.4	1.949	2.801	12.4	20.5

156115 2001 SQ_{275} 1 30.6 248.°67 3.°4/ 1.5 18

12 23	9 16.63	+ 7 22.0	1.700	2.458	17.6	21.5
1 2	9 13.06	+ 7 22.6	1.597	2.445	14.5	21.3
1 12	9 6.66	+ 7 41.9	1.514	2.431	10.6	21.0
1 22	8 57.91	+ 8 19.7	1.456	2.417	6.4	20.7
2 1	8 47.71	+ 9 13.0	1.424	2.403	3.4	20.5
2 11	8 37.37	+10 16.2	1.421	2.388	6.0	20.6
2 21	8 28.18	+11 22.6	1.444	2.373	10.5	20.8
3 2	8 21.31	+12 25.9	1.492	2.357	14.8	21.1

17286 Bisei 1 30.6 145.°85 2.°9/ 1.2 18

12 23	9 19.58	+ 9 21.4	1.847	2.600	16.6	18.9
1 2	9 14.82	+ 9 9.5	1.762	2.608	13.4	18.7
1 12	9 7.46	+ 9 11.9	1.699	2.616	9.6	18.5
1 22	8 58.11	+ 9 27.6	1.660	2.623	5.6	18.2
2 1	8 47.72	+ 9 53.7	1.651	2.630	2.9	18.1
2 11	8 37.48	+10 26.3	1.670	2.636	5.4	18.3
2 21	8 28.55	+11 0.7	1.717	2.642	9.4	18.5
3 2	8 21.81	+11 33.2	1.790	2.647	13.1	18.7

273875 2007 HM 1 30.6 228.°98 2.°7/ 1.6 17

12 23	9 13.72	+ 7 14.8	2.363	3.103	13.8	21.6
1 2	9 9.84	+ 7 22.6	2.257	3.094	11.2	21.4
1 12	9 3.93	+ 7 44.4	2.174	3.085	8.2	21.2
1 22	8 56.42	+ 8 19.4	2.116	3.076	4.9	21.0
2 1	8 47.99	+ 9 5.2	2.088	3.066	2.7	20.8
2 11	8 39.53	+ 9 57.7	2.090	3.056	4.6	20.9
2 21	8 31.89	+10 52.6	2.121	3.045	7.9	21.1
3 2	8 25.85	+11 45.6	2.179	3.035	11.2	21.3

263327 2008 CX_{55} 1 30.6 242.°91 3.°0/28.8 18

12 23	9 18.84	+23 48.5	1.938	2.726	14.7	21.2
1 2	9 14.51	+24 25.3	1.845	2.718	11.6	21.0
1 12	9 7.45	+25 7.5	1.774	2.709	8.0	20.8
1 22	8 58.20	+25 49.4	1.730	2.700	4.3	20.5
2 1	8 47.72	+26 24.7	1.714	2.691	3.3	20.4
2 11	8 37.27	+26 48.2	1.727	2.682	6.7	20.6
2 21	8 28.11	+26 57.2	1.768	2.672	10.5	20.8
3 2	8 21.22	+26 51.6	1.832	2.662	14.1	21.0

373003 2011 CF_{106} 1 30.6 67.°56 0.°7/30.2 18

12 23	9 17.03	+18 29.7	1.927	2.709	15.0	21.4
1 2	9 12.81	+18 41.2	1.845	2.714	11.8	21.2
1 12	9 6.09	+19 0.4	1.785	2.720	8.0	21.0
1 22	8 57.46	+19 23.6	1.751	2.725	3.7	20.7
2 1	8 47.85	+19 46.5	1.746	2.730	1.1	20.6
2 11	8 38.44	+20 4.9	1.770	2.736	5.3	20.9
2 21	8 30.30	+20 16.1	1.822	2.741	9.3	21.1
3 2	8 24.30	+20 18.8	1.898	2.747	12.9	21.3

222077 1999 KK_{7} 1 30.6 234.°48 4.°6/26.9 18

12 23	9 17.35	+27 23.9	2.192	2.980	13.2	20.3
1 2	9 13.19	+28 39.3	2.099	2.970	10.5	20.1
1 12	9 6.50	+29 59.1	2.030	2.960	7.5	19.9
1 22	8 57.75	+31 16.5	1.989	2.950	5.0	19.8
2 1	8 47.79	+32 23.8	1.977	2.939	5.0	19.7
2 11	8 37.77	+33 14.9	1.994	2.928	7.6	19.9
2 21	8 28.84	+33 46.7	2.038	2.916	10.7	20.0
3 2	8 21.98	+33 59.3	2.106	2.904	13.6	20.2

143174 2002 XD_{68} 1 30.6 95.°96 2.°0/ 1.0 18

12 23	9 18.35	+ 9 14.1	2.018	2.766	15.5	20.2
1 2	9 13.44	+ 9 32.7	1.949	2.794	12.4	20.0
1 12	9 6.27	+10 5.8	1.903	2.821	8.7	19.8
1 22	8 57.45	+10 51.0	1.882	2.847	4.8	19.7
2 1	8 47.87	+11 43.9	1.891	2.873	2.0	19.5
2 11	8 38.59	+12 39.5	1.931	2.898	4.7	19.7
2 21	8 30.55	+13 32.9	1.999	2.923	8.4	20.0
3 2	8 24.48	+14 20.4	2.093	2.947	11.6	20.3

363100 2000 SZ_{346} 1 30.6 172.°28 5.°2/ 3.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.83	+ 0 52.2	2.540	3.238	13.9	21.2
1 2	9 11.97	+ 0 13.6	2.443	3.241	11.7	21.0
1 12	9 5.20	− 0 11.0	2.367	3.244	9.2	20.8
1 22	8 56.97	− 0 20.5	2.317	3.246	6.8	20.7
2 1	8 47.94	− 0 14.9	2.296	3.248	5.3	20.6
2 11	8 38.97	+ 0 4.1	2.304	3.249	5.9	20.6
2 21	8 30.84	+ 0 33.4	2.342	3.250	8.1	20.8
3 2	8 24.25	+ 1 9.0	2.406	3.250	10.7	20.9

262855 2007 BS_{31} 1 30.6 20.°51 3.°6/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.72	+20 12.2	1.506	2.316	17.2	19.7
1 2	9 10.32	+21 47.2	1.434	2.321	13.4	19.5
1 12	9 4.91	+23 36.2	1.384	2.326	9.0	19.2
1 22	8 57.08	+25 30.0	1.360	2.332	4.8	19.0
2 1	8 47.91	+27 17.4	1.363	2.339	4.2	19.0
2 11	8 38.88	+28 48.0	1.393	2.347	8.1	19.2
2 21	8 31.35	+29 55.8	1.449	2.355	12.3	19.5
3 2	8 26.44	+30 39.1	1.527	2.363	16.1	19.8

215274 2001 PH_{38} 1 30.6 119.°77 3.°9/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.85	+25 56.0	2.237	3.017	13.2	20.4
1 2	9 14.75	+27 9.8	2.169	3.037	10.3	20.3
1 12	9 7.26	+28 26.8	2.125	3.056	7.2	20.1
1 22	8 57.97	+29 40.3	2.110	3.074	4.5	20.0
2 1	8 47.79	+30 43.5	2.125	3.092	4.2	20.0
2 11	8 37.83	+31 31.3	2.170	3.109	6.7	20.2
2 21	8 29.10	+32 1.6	2.244	3.126	9.7	20.4
3 2	8 22.41	+32 14.8	2.341	3.141	12.4	20.6

167629 2004 CZ_{76} 1 30.6 33.°99 3.°1/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.19	+25 46.8	1.915	2.708	14.7	19.9
1 2	9 13.75	+26 4.5	1.842	2.717	11.5	19.7
1 12	9 6.71	+26 24.0	1.791	2.726	7.9	19.5
1 22	8 57.73	+26 40.0	1.767	2.736	4.4	19.3
2 1	8 47.84	+26 47.8	1.770	2.747	3.4	19.3
2 11	8 38.28	+26 43.8	1.803	2.757	6.4	19.5
2 21	8 30.16	+26 27.3	1.862	2.769	10.0	19.7
3 2	8 24.31	+25 59.4	1.946	2.780	13.2	19.9

68054 2000 YQ_{54} 1 30.6 55.°08 1.°2/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.41	+17 18.6	1.392	2.194	18.8	19.0
1 2	9 13.90	+17 59.0	1.330	2.211	14.7	18.8
1 12	9 7.20	+18 52.8	1.289	2.228	9.9	18.5
1 22	8 58.08	+19 53.5	1.271	2.246	4.6	18.3
2 1	8 47.79	+20 53.2	1.280	2.264	1.7	18.1
2 11	8 37.90	+21 44.2	1.316	2.282	6.6	18.5
2 21	8 29.82	+22 21.7	1.378	2.301	11.4	18.8
3 2	8 24.52	+22 43.9	1.462	2.320	15.5	19.1

340787 2006 SN_{395} 1 30.6 238.°64 4.°8/26.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.68	+32 22.5	2.607	3.387	11.6	21.1
1 2	9 12.98	+33 9.4	2.517	3.380	9.3	21.0
1 12	9 6.05	+33 54.9	2.452	3.373	6.9	20.8
1 22	8 57.43	+34 33.6	2.414	3.365	5.1	20.7
2 1	8 47.89	+35 0.1	2.405	3.357	5.1	20.7
2 11	8 38.44	+35 11.0	2.425	3.349	7.0	20.8
2 21	8 30.03	+35 5.3	2.473	3.340	9.5	20.9
3 2	8 23.44	+34 44.2	2.546	3.332	11.9	21.1

212724 2007 RP_{144} 1 30.6 65.°15 4.°3/ 2.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.19	+ 6 6.2	1.516	2.279	19.2	20.5
1 2	9 12.64	+ 5 52.6	1.443	2.292	15.7	20.3
1 12	9 6.23	+ 5 59.3	1.389	2.304	11.6	20.0
1 22	8 57.61	+ 6 26.0	1.358	2.317	7.2	19.8
2 1	8 47.87	+ 7 9.7	1.354	2.329	4.4	19.7
2 11	8 38.37	+ 8 4.4	1.376	2.342	6.4	19.8
2 21	8 30.38	+ 9 3.4	1.425	2.355	10.5	20.1
3 2	8 24.86	+10 0.4	1.497	2.368	14.4	20.4

63405 2001 KP_{33} 1 30.6 130.°50 3.°2/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.42	+23 46.4	2.129	2.910	13.8	20.4
1 2	9 14.53	+24 50.8	2.055	2.924	10.8	20.2
1 12	9 7.18	+26 0.5	2.005	2.938	7.3	20.0
1 22	8 57.97	+27 9.0	1.983	2.952	4.1	19.8
2 1	8 47.81	+28 9.4	1.991	2.965	3.6	19.8
2 11	8 37.84	+28 56.5	2.029	2.977	6.4	20.0
2 21	8 29.11	+29 27.6	2.095	2.988	9.7	20.2
3 2	8 22.48	+29 42.5	2.186	2.999	12.7	20.4

172955 2005 KR_{11} 1 30.6 214.°67 5.°4/ 3.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.31	− 1 42.9	2.887	3.569	12.7	21.0
1 2	9 9.08	− 2 19.7	2.780	3.563	10.8	20.9
1 12	9 3.19	− 2 42.9	2.694	3.557	8.7	20.7
1 22	8 56.02	− 2 51.3	2.634	3.550	6.7	20.6
2 1	8 48.13	− 2 44.6	2.602	3.543	5.5	20.5
2 11	8 40.22	− 2 24.0	2.599	3.535	5.9	20.5
2 21	8 32.98	− 1 52.3	2.625	3.527	7.6	20.6
3 2	8 27.01	− 1 13.2	2.678	3.519	9.8	20.7

216560 2001 WP_{47} 1 30.6 353.°10 7.°0/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.31	+33 21.7	2.022	2.823	13.7	19.4
1 2	9 11.16	+35 0.7	1.947	2.820	11.1	19.2
1 12	9 5.28	+36 39.9	1.897	2.817	8.6	19.0
1 22	8 57.22	+38 10.2	1.873	2.815	7.1	18.9
2 1	8 47.92	+39 23.0	1.876	2.814	7.6	19.0
2 11	8 38.67	+40 12.0	1.907	2.813	9.7	19.1
2 21	8 30.72	+40 35.4	1.962	2.812	12.3	19.2
3 2	8 25.06	+40 34.8	2.038	2.812	14.9	19.4

210477 1995 UD_{18} 1 30.6 218.°06 0.°3/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.89	+16 44.1	2.054	2.823	14.6	21.9
1 2	9 14.30	+17 2.5	1.954	2.816	11.6	21.7
1 12	9 7.19	+17 30.4	1.876	2.807	7.9	21.5
1 22	8 58.08	+18 4.3	1.826	2.798	3.7	21.2
2 1	8 47.81	+18 39.9	1.804	2.789	0.8	20.9
2 11	8 37.53	+19 12.4	1.813	2.779	5.1	21.2
2 21	8 28.36	+19 38.2	1.850	2.768	9.3	21.5
3 2	8 21.23	+19 55.3	1.913	2.757	13.0	21.7

363139 2001 QG_{258} 1 30.6 128.°98 3.°4/ 1.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.49	+ 6 58.1	2.185	2.921	14.9	21.3
1 2	9 12.73	+ 6 44.0	2.101	2.934	12.1	21.1
1 12	9 5.82	+ 6 43.5	2.039	2.947	8.9	20.9
1 22	8 57.30	+ 6 56.0	2.003	2.959	5.5	20.7
2 1	8 47.96	+ 7 19.8	1.996	2.970	3.4	20.6
2 11	8 38.78	+ 7 51.3	2.018	2.982	5.0	20.7
2 21	8 30.67	+ 8 26.7	2.070	2.992	8.2	20.9
3 2	8 24.38	+ 9 2.3	2.148	3.002	11.3	21.1

428187 2006 UP_{71} 1 30.6 314.°53 2.°5/ 1.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.81	+ 9 47.4	2.341	3.091	13.6	20.9
1 2	9 9.86	+ 9 30.0	2.243	3.088	11.0	20.7
1 12	9 3.90	+ 9 23.1	2.169	3.085	7.9	20.5
1 22	8 56.42	+ 9 26.3	2.120	3.082	4.7	20.3
2 1	8 48.10	+ 9 37.8	2.100	3.079	2.5	20.1
2 11	8 39.84	+ 9 55.0	2.110	3.076	4.5	20.3
2 21	8 32.48	+10 15.1	2.149	3.074	7.8	20.5
3 2	8 26.74	+10 35.1	2.214	3.071	10.9	20.6

479311 2013 ME_{7} 1 30.6 205.°64 17.°6/ 8.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.25	−16 53.1	1.414	2.057	25.2	21.5
1 2	9 16.63	−19 5.9	1.333	2.054	23.3	21.3
1 12	9 9.56	−20 48.6	1.266	2.050	21.2	21.1
1 22	8 59.50	−21 50.1	1.214	2.045	19.2	21.0
2 1	8 47.55	−22 1.1	1.180	2.040	17.9	20.8
2 11	8 35.36	−21 18.7	1.167	2.033	17.6	20.8
2 21	8 24.65	−19 48.3	1.173	2.026	18.6	20.8
3 2	8 16.86	−17 42.0	1.198	2.019	20.6	20.9

274245 2008 OS_{6} 1 30.6 196.°24 2.°1/ 1.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.06	+ 8 23.2	2.432	3.173	13.4	21.1
1 2	9 10.02	+ 8 42.5	2.331	3.171	10.8	20.9
1 12	9 4.02	+ 9 15.4	2.254	3.168	7.7	20.7
1 22	8 56.49	+10 0.3	2.202	3.165	4.4	20.5
2 1	8 48.10	+10 54.1	2.181	3.162	2.1	20.3
2 11	8 39.72	+11 52.7	2.190	3.158	4.3	20.5
2 21	8 32.17	+12 51.3	2.229	3.153	7.6	20.7
3 2	8 26.18	+13 46.1	2.295	3.148	10.8	20.9

265789 2005 WM_{150} 1 30.6 107.°71 1.°9/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.19	+21 5.1	2.087	2.867	14.1	21.0
1 2	9 13.51	+21 41.4	2.012	2.881	11.0	20.8
1 12	9 6.45	+22 23.8	1.961	2.896	7.4	20.6
1 22	8 57.63	+23 7.5	1.937	2.910	3.6	20.4
2 1	8 47.93	+23 46.9	1.943	2.924	2.2	20.3
2 11	8 38.48	+24 17.7	1.978	2.937	5.5	20.6
2 21	8 30.27	+24 37.3	2.042	2.951	9.1	20.8
3 2	8 24.10	+24 45.0	2.131	2.963	12.3	21.0

278417 2007 RR_{146} 1 30.6 161.°88 2.°9/ 1.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.55	+ 8 3.0	2.397	3.137	13.6	21.0
1 2	9 10.35	+ 7 48.2	2.302	3.139	11.0	20.8
1 12	9 4.19	+ 7 45.1	2.230	3.141	8.1	20.6
1 22	8 56.54	+ 7 53.2	2.185	3.143	4.9	20.4
2 1	8 48.11	+ 8 10.8	2.168	3.144	2.9	20.3
2 11	8 39.74	+ 8 35.2	2.181	3.146	4.6	20.4
2 21	8 32.27	+ 9 3.1	2.224	3.147	7.7	20.6
3 2	8 26.40	+ 9 31.4	2.292	3.148	10.7	20.8

361861 2008 ED_{69} 1 30.6 121.°61 3.°0/ 3.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.39	+ 0 7.3	3.938	4.606	9.7	23.8
1 2	9 10.01	+ 0 28.3	3.852	4.635	8.1	23.7
1 12	9 3.44	+ 1 0.6	3.790	4.663	6.2	23.6
1 22	8 56.03	+ 1 43.6	3.757	4.689	4.3	23.5
2 1	8 48.21	+ 2 35.5	3.756	4.715	3.1	23.5
2 11	8 40.51	+ 3 33.7	3.788	4.740	3.5	23.5
2 21	8 33.39	+ 4 35.3	3.853	4.763	5.2	23.6
3 2	8 27.27	+ 5 37.3	3.949	4.786	7.0	23.8

490664 2010 HZ_{77} 1 30.6 229.°12 0.°3/30.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.82	+16 31.1	1.996	2.766	15.0	22.9
1 2	9 15.18	+16 50.6	1.892	2.753	11.9	22.7
1 12	9 7.91	+17 20.3	1.810	2.740	8.2	22.4
1 22	8 58.48	+17 56.8	1.754	2.727	3.9	22.2
2 1	8 47.78	+18 35.4	1.727	2.712	0.8	21.9
2 11	8 36.99	+19 11.0	1.731	2.697	5.3	22.2
2 21	8 27.31	+19 39.6	1.763	2.681	9.7	22.4
3 2	8 19.75	+19 59.0	1.820	2.664	13.6	22.6

410529 2008 FK_4 1 30.6 137.°86 6.°4/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 24.22	+34 5.1	1.980	2.765	14.6	21.2
1 2	9 18.73	+34 58.2	1.908	2.771	11.8	21.0
1 12	9 10.25	+35 48.1	1.859	2.778	8.9	20.9
1 22	8 59.50	+36 26.5	1.836	2.784	6.7	20.7
2 1	8 47.64	+36 46.4	1.841	2.789	6.8	20.8
2 11	8 36.14	+36 44.0	1.874	2.795	8.9	20.9
2 21	8 26.29	+36 19.6	1.933	2.800	11.7	21.1
3 2	8 19.06	+35 36.6	2.016	2.805	14.5	21.3

193828 2001 QC_{35} 1 30.6 114.°27 0.°3/30.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 24.19	+16 44.6	1.838	2.604	16.2	21.6
1 2	9 18.31	+17 1.9	1.769	2.629	12.7	21.4
1 12	9 9.73	+17 28.6	1.722	2.652	8.6	21.2
1 22	8 59.17	+18 0.5	1.702	2.675	4.0	21.0
2 1	8 47.71	+18 32.5	1.712	2.697	0.8	20.8
2 11	8 36.65	+19 0.0	1.752	2.718	5.3	21.1
2 21	8 27.12	+19 20.0	1.820	2.737	9.5	21.4
3 2	8 20.00	+19 31.1	1.914	2.756	13.0	21.7

459170 2012 DF_{23} 1 30.6 51.°99 2.°5/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.64	+24 20.2	1.748	2.536	16.1	21.5
1 2	9 17.57	+24 22.7	1.666	2.538	12.7	21.3
1 12	9 9.51	+24 27.5	1.606	2.541	8.7	21.0
1 22	8 59.18	+24 29.8	1.571	2.543	4.4	20.8
2 1	8 47.70	+24 24.6	1.565	2.546	2.8	20.7
2 11	8 36.53	+24 8.8	1.588	2.548	6.5	20.9
2 21	8 26.97	+23 41.7	1.638	2.551	10.7	21.2
3 2	8 20.02	+23 4.8	1.712	2.553	14.4	21.4

324522 2006 VJ_{101} 1 30.6 121.°64 7.°4/ 4.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.64	− 2 0.6	1.984	2.687	17.1	20.2
1 2	9 12.38	− 2 56.5	1.898	2.694	14.7	20.1
1 12	9 5.78	− 3 33.6	1.832	2.701	11.9	19.9
1 22	8 57.37	− 3 49.2	1.789	2.708	9.2	19.7
2 1	8 47.99	− 3 42.3	1.772	2.714	7.5	19.7
2 11	8 38.71	− 3 14.9	1.783	2.720	8.0	19.7
2 21	8 30.53	− 2 31.7	1.820	2.727	10.2	19.8
3 2	8 24.30	− 1 38.5	1.882	2.733	12.9	20.0

150566 2000 SG_{313} 1 30.6 218.°87 2.°0/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.20	+12 51.5	2.118	2.874	14.7	19.7
1 2	9 14.31	+12 24.1	2.020	2.870	11.8	19.5
1 12	9 7.06	+12 5.3	1.944	2.866	8.3	19.3
1 22	8 57.98	+11 54.2	1.896	2.862	4.6	19.1
2 1	8 47.89	+11 49.2	1.876	2.858	2.0	18.9
2 11	8 37.89	+11 47.9	1.886	2.853	4.9	19.1
2 21	8 28.98	+11 48.2	1.926	2.849	8.7	19.3
3 2	8 22.02	+11 47.9	1.991	2.844	12.2	19.5

309458 2007 UF_{137} 1 30.6 85.°74 1.°1/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.05	+16 33.3	1.626	2.413	17.1	21.3
1 2	9 14.01	+17 24.4	1.558	2.430	13.4	21.1
1 12	9 7.12	+18 28.6	1.511	2.447	9.0	20.8
1 22	8 58.05	+19 40.0	1.490	2.465	4.2	20.6
2 1	8 47.89	+20 50.7	1.498	2.481	1.5	20.5
2 11	8 38.03	+21 53.4	1.533	2.498	6.1	20.8
2 21	8 29.71	+22 43.2	1.596	2.515	10.5	21.1
3 2	8 23.86	+23 17.7	1.683	2.531	14.3	21.4

236027 2005 GM_{141} 1 30.6 288.°45 3.°0/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.92	+24 17.4	2.213	3.001	13.1	20.5
1 2	9 11.11	+25 1.4	2.120	2.993	10.3	20.3
1 12	9 4.98	+25 50.1	2.051	2.986	7.1	20.1
1 22	8 57.02	+26 38.3	2.008	2.978	4.0	19.8
2 1	8 48.05	+27 20.5	1.995	2.970	3.3	19.8
2 11	8 39.11	+27 51.7	2.011	2.963	6.2	20.0
2 21	8 31.23	+28 9.5	2.055	2.955	9.5	20.1
3 2	8 25.25	+28 13.3	2.123	2.948	12.6	20.3

67987 2000 XX_{18} 1 30.6 202.°23 1.°3/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.40	+20 25.4	2.267	3.032	13.6	20.3
1 2	9 16.80	+20 43.5	2.167	3.027	10.7	20.1
1 12	9 8.75	+21 7.3	2.090	3.020	7.3	19.8
1 22	8 58.79	+21 32.7	2.041	3.013	3.5	19.6
2 1	8 47.77	+21 55.5	2.022	3.005	1.6	19.4
2 11	8 36.78	+22 11.6	2.035	2.996	5.2	19.7
2 21	8 26.90	+22 18.8	2.077	2.986	9.0	19.9
3 2	8 19.01	+22 16.6	2.146	2.976	12.3	20.1

207981 1996 XO_8 1 30.6 222.°77 1.°8/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.58	+20 56.0	1.825	2.609	15.7	21.1
1 2	9 15.98	+21 16.1	1.732	2.603	12.4	20.9
1 12	9 8.52	+21 43.2	1.662	2.597	8.4	20.7
1 22	8 58.78	+22 12.4	1.617	2.590	4.1	20.4
2 1	8 47.77	+22 38.2	1.601	2.583	2.1	20.2
2 11	8 36.82	+22 55.7	1.614	2.576	6.2	20.5
2 21	8 27.24	+23 2.0	1.654	2.568	10.5	20.7
3 2	8 20.06	+22 56.7	1.719	2.560	14.3	20.9

206928 2004 RC_{13} 1 30.6 109.°82 0.°3/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.09	+14 8.6	1.656	2.433	17.3	20.5
1 2	9 14.77	+14 37.9	1.582	2.447	13.6	20.3
1 12	9 7.62	+15 21.4	1.529	2.461	9.3	20.1
1 22	8 58.30	+16 14.8	1.502	2.474	4.5	19.8
2 1	8 47.87	+17 11.9	1.502	2.487	0.7	19.6
2 11	8 37.70	+18 6.1	1.532	2.500	5.6	20.0
2 21	8 29.02	+18 52.3	1.589	2.512	10.1	20.3
3 2	8 22.78	+19 27.5	1.670	2.524	14.1	20.5

417119 2005 UB_{496} 1 30.6 148.°68 5.°7/ 3.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.51	+ 0 24.2	2.254	2.959	15.3	21.5
1 2	9 11.98	− 0 13.0	2.164	2.966	12.9	21.3
1 12	9 5.36	− 0 34.0	2.094	2.973	10.1	21.1
1 22	8 57.14	− 0 37.5	2.049	2.980	7.5	21.0
2 1	8 48.07	− 0 23.5	2.032	2.985	5.8	20.9
2 11	8 39.08	+ 0 5.5	2.044	2.991	6.5	20.9
2 21	8 31.06	+ 0 45.7	2.084	2.996	8.8	21.1
3 2	8 24.77	+ 1 32.2	2.150	3.001	11.5	21.3

200590 2001 RU_{15} 1 30.6 139.°59 3.°1/ 1.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.22	+ 7 6.9	1.853	2.598	16.8	21.6
1 2	9 14.54	+ 7 14.2	1.771	2.611	13.7	21.4
1 12	9 7.31	+ 7 39.0	1.710	2.623	9.9	21.2
1 22	8 58.12	+ 8 19.7	1.674	2.634	5.9	21.0
2 1	8 47.91	+ 9 12.7	1.666	2.645	3.1	20.8
2 11	8 37.85	+10 12.6	1.688	2.655	5.4	21.0
2 21	8 29.08	+11 13.3	1.738	2.664	9.3	21.2
3 2	8 22.46	+12 10.0	1.814	2.672	13.0	21.5

175411 Yilan 1 30.6 251.°04 0.°3/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.47	+16 2.0	1.882	2.658	15.5	20.7
1 2	9 13.54	+16 27.1	1.778	2.644	12.3	20.5
1 12	9 6.91	+17 4.0	1.697	2.630	8.5	20.2
1 22	8 58.07	+17 49.3	1.641	2.614	4.0	19.9
2 1	8 47.89	+18 37.7	1.614	2.599	0.8	19.6
2 11	8 37.61	+19 23.5	1.616	2.583	5.6	20.0
2 21	8 28.45	+20 1.8	1.646	2.567	10.1	20.2
3 2	8 21.47	+20 29.8	1.700	2.550	14.1	20.4

154674 2004 GS_{14} 1 30.6 267.°04 0.°1/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.58	+16 32.6	1.556	2.343	17.8	21.0
1 2	9 15.84	+16 40.5	1.455	2.326	14.2	20.8
1 12	9 8.86	+17 0.5	1.374	2.309	9.8	20.4
1 22	8 59.14	+17 29.1	1.317	2.291	4.7	20.1
2 1	8 47.71	+18 1.1	1.288	2.273	0.8	19.8
2 11	8 36.12	+18 30.4	1.286	2.254	6.4	20.1
2 21	8 25.93	+18 52.4	1.311	2.236	11.7	20.3
3 2	8 18.44	+19 4.5	1.358	2.217	16.4	20.6

412865 2014 QT 1 30.6 190.°72 0.°6/31.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.40	+13 38.7	2.109	2.870	14.6	22.4
1 2	9 13.77	+14 0.2	2.013	2.869	11.6	22.2
1 12	9 6.77	+14 33.4	1.940	2.867	8.0	22.0
1 22	8 57.88	+15 15.4	1.893	2.864	3.9	21.7
2 1	8 47.94	+16 2.0	1.876	2.861	0.7	21.5
2 11	8 38.03	+16 48.2	1.890	2.857	4.8	21.8
2 21	8 29.19	+17 29.8	1.932	2.852	8.8	22.0
3 2	8 22.29	+18 3.7	2.000	2.847	12.4	22.2

226905 2004 TN_{185} 1 30.6 232.°55 4.°1/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.37	+28 9.7	2.211	2.995	13.3	20.4
1 2	9 14.66	+28 52.2	2.118	2.987	10.5	20.2
1 12	9 7.43	+29 36.3	2.049	2.979	7.4	20.0
1 22	8 58.21	+30 16.1	2.007	2.970	4.8	19.8
2 1	8 47.89	+30 45.6	1.995	2.962	4.4	19.7
2 11	8 37.65	+31 0.4	2.011	2.953	7.0	19.9
2 21	8 28.59	+30 58.9	2.055	2.943	10.1	20.1
3 2	8 21.63	+30 42.0	2.124	2.934	13.1	20.2

371209 2006 AF_{52} 1 30.6 125.°65 0.°1/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.07	+14 45.7	2.129	2.899	14.2	21.9
1 2	9 11.08	+15 16.9	2.044	2.906	11.1	21.7
1 12	9 4.86	+15 59.1	1.982	2.913	7.6	21.5
1 22	8 56.93	+16 48.9	1.947	2.919	3.6	21.2
2 1	8 48.11	+17 41.6	1.941	2.925	0.6	21.0
2 11	8 39.40	+18 32.0	1.964	2.931	4.7	21.3
2 21	8 31.75	+19 16.1	2.017	2.937	8.5	21.5
3 2	8 25.95	+19 51.1	2.095	2.943	11.9	21.8

167217 2003 US_{28} 1 30.6 16.°32 2.°2/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.07	+19 38.7	1.229	2.050	19.7	19.6
1 2	9 11.89	+20 14.0	1.163	2.055	15.4	19.3
1 12	9 6.22	+21 1.7	1.116	2.060	10.4	19.1
1 22	8 57.81	+21 54.9	1.092	2.067	5.0	18.8
2 1	8 47.97	+22 45.0	1.093	2.075	2.7	18.7
2 11	8 38.45	+23 24.0	1.118	2.084	7.6	19.0
2 21	8 30.85	+23 47.1	1.168	2.094	12.7	19.3
3 2	8 26.30	+23 53.4	1.239	2.105	17.1	19.6

201871 2003 YN_{154} 1 30.6 13.°41 6.°8/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.06	+33 14.2	1.930	2.730	14.3	19.5
1 2	9 12.56	+34 36.6	1.860	2.733	11.5	19.3
1 12	9 6.24	+35 57.9	1.813	2.735	8.8	19.2
1 22	8 57.70	+37 9.6	1.792	2.738	7.0	19.1
2 1	8 47.99	+38 3.3	1.798	2.741	7.3	19.1
2 11	8 38.45	+38 33.8	1.830	2.745	9.5	19.2
2 21	8 30.35	+38 39.7	1.888	2.749	12.2	19.4
3 2	8 24.67	+38 23.5	1.967	2.754	14.9	19.6

436659 2011 SU_1 1 30.6 257.°08 0.°9/29.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.35	+19 40.0	2.573	3.345	11.9	21.5
1 2	9 10.21	+19 55.9	2.474	3.339	9.3	21.3
1 12	9 4.13	+20 17.2	2.399	3.332	6.3	21.1
1 22	8 56.56	+20 40.8	2.352	3.326	3.0	20.9
2 1	8 48.18	+21 3.4	2.335	3.319	1.2	20.7
2 11	8 39.86	+21 21.7	2.349	3.312	4.4	20.9
2 21	8 32.40	+21 33.5	2.391	3.305	7.7	21.1
3 2	8 26.50	+21 37.6	2.460	3.298	10.6	21.3

244501 2002 TB_{117} 1 30.6 73.°99 2.°2/ 1.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.00	+10 49.8	2.186	2.939	14.3	20.3
1 2	9 11.56	+10 35.6	2.108	2.955	11.5	20.2
1 12	9 5.02	+10 32.4	2.052	2.971	8.1	20.0
1 22	8 56.95	+10 38.9	2.023	2.987	4.6	19.8
2 1	8 48.14	+10 52.8	2.023	3.003	2.2	19.7
2 11	8 39.54	+11 11.1	2.052	3.019	4.5	19.9
2 21	8 32.04	+11 30.8	2.110	3.035	7.9	20.1
3 2	8 26.32	+11 49.1	2.194	3.051	11.1	20.3

326076 2011 AC_{74} 1 30.6 54.°59 3.°5/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.93	+22 39.4	1.719	2.519	15.8	20.3
1 2	9 12.42	+23 46.7	1.649	2.529	12.3	20.1
1 12	9 6.10	+25 1.9	1.601	2.539	8.4	19.9
1 22	8 57.62	+26 17.5	1.579	2.549	4.6	19.7
2 1	8 48.02	+27 25.5	1.584	2.560	3.9	19.7
2 11	8 38.63	+28 18.6	1.618	2.571	7.2	19.9
2 21	8 30.69	+28 53.6	1.679	2.582	11.1	20.2
3 2	8 25.16	+29 10.0	1.762	2.593	14.5	20.4

15126 Brittanyanderson 1 30.6 151.°24 1.°8/31.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.36	+10 29.3	1.847	2.605	16.5	20.0
1 2	9 14.74	+10 43.5	1.763	2.614	13.2	19.8
1 12	9 7.51	+11 12.9	1.700	2.622	9.3	19.6
1 22	8 58.25	+11 55.1	1.662	2.629	5.0	19.3
2 1	8 47.92	+12 45.9	1.653	2.636	1.8	19.1
2 11	8 37.72	+13 39.6	1.674	2.642	5.2	19.4
2 21	8 28.80	+14 30.8	1.723	2.647	9.4	19.6
3 2	8 22.08	+15 15.6	1.797	2.652	13.2	19.9

11693 Grantelliott 1 30.6 261.°68 1.°0/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.05	+18 10.5	1.717	2.504	16.4	18.1
1 2	9 14.22	+18 31.6	1.621	2.494	13.0	17.9
1 12	9 7.49	+19 3.1	1.547	2.483	8.8	17.6
1 22	8 58.38	+19 40.8	1.498	2.472	4.2	17.3
2 1	8 47.88	+20 18.9	1.477	2.461	1.4	17.1
2 11	8 37.36	+20 51.6	1.484	2.450	6.1	17.4
2 21	8 28.16	+21 14.7	1.519	2.439	10.8	17.6
3 2	8 21.40	+21 26.5	1.576	2.428	14.9	17.8

417691 2007 BM_{47} 1 30.6 90.°44 3.°9/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 23.73	+28 0.2	1.907	2.692	15.0	21.3
1 2	9 18.12	+28 19.7	1.835	2.704	11.8	21.1
1 12	9 9.70	+28 38.9	1.786	2.717	8.3	20.9
1 22	8 59.21	+28 52.1	1.763	2.729	4.9	20.7
2 1	8 47.78	+28 53.7	1.769	2.741	4.2	20.7
2 11	8 36.77	+28 40.8	1.804	2.753	6.9	20.9
2 21	8 27.38	+28 13.5	1.866	2.765	10.4	21.1
3 2	8 20.48	+27 33.9	1.953	2.776	13.6	21.4

79305 1995 XK 1 30.6 150.°46 3.°4/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.45	+23 17.3	1.857	2.640	15.5	19.7
1 2	9 17.35	+24 20.5	1.780	2.650	12.1	19.5
1 12	9 9.37	+25 30.5	1.726	2.660	8.3	19.3
1 22	8 59.17	+26 40.0	1.699	2.669	4.6	19.1
2 1	8 47.78	+27 41.1	1.702	2.677	3.8	19.0
2 11	8 36.58	+28 27.3	1.734	2.684	7.1	19.3
2 21	8 26.84	+28 55.6	1.793	2.690	10.9	19.5
3 2	8 19.57	+29 6.3	1.876	2.696	14.2	19.7

414861 2010 VQ_{95} 1 30.6 213.°89 2.°8/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.91	+22 37.1	1.849	2.640	15.2	21.7
1 2	9 13.85	+23 17.8	1.764	2.639	11.9	21.5
1 12	9 7.05	+24 5.2	1.701	2.637	8.1	21.2
1 22	8 58.09	+24 53.5	1.664	2.636	4.3	21.0
2 1	8 47.94	+25 36.1	1.656	2.634	3.1	20.9
2 11	8 37.91	+26 7.3	1.676	2.633	6.6	21.1
2 21	8 29.22	+26 24.2	1.723	2.631	10.6	21.4
3 2	8 22.85	+26 26.3	1.794	2.629	14.1	21.6

490262 2008 XA_{38} 1 30.6 88.°61 3.°4/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.58	+22 58.4	1.522	2.320	17.6	21.6
1 2	9 17.08	+23 46.3	1.457	2.336	13.8	21.3
1 12	9 9.35	+24 41.2	1.414	2.351	9.3	21.1
1 22	8 59.17	+25 35.4	1.395	2.367	4.9	20.9
2 1	8 47.79	+26 20.8	1.404	2.382	3.8	20.9
2 11	8 36.82	+26 51.0	1.441	2.397	7.5	21.1
2 21	8 27.69	+27 3.6	1.504	2.412	11.7	21.4
3 2	8 21.39	+26 59.5	1.589	2.427	15.5	21.7

187875 2000 QX_{91} 1 30.6 103.°63 2.°0/ 1.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.70	+ 9 13.6	2.104	2.855	14.9	21.0
1 2	9 11.46	+ 9 31.8	2.026	2.872	11.9	20.8
1 12	9 5.04	+10 4.3	1.969	2.888	8.4	20.7
1 22	8 56.99	+10 48.8	1.939	2.904	4.7	20.5
2 1	8 48.14	+11 41.6	1.939	2.920	2.0	20.3
2 11	8 39.47	+12 37.7	1.968	2.936	4.6	20.5
2 21	8 31.89	+13 32.3	2.026	2.951	8.2	20.8
3 2	8 26.16	+14 21.5	2.110	2.966	11.5	21.0

464257 2015 EY_{11} 1 30.6 109.°09 1.°4/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.16	+18 41.1	2.292	3.070	13.0	20.8
1 2	9 10.26	+19 33.2	2.210	3.078	10.2	20.6
1 12	9 4.26	+20 33.9	2.151	3.086	6.8	20.4
1 22	8 56.65	+21 38.3	2.121	3.094	3.2	20.2
2 1	8 48.19	+22 41.2	2.120	3.102	1.8	20.1
2 11	8 39.83	+23 37.2	2.149	3.109	5.0	20.3
2 21	8 32.47	+24 22.7	2.207	3.117	8.5	20.6
3 2	8 26.85	+24 55.9	2.290	3.124	11.5	20.8

192583 1999 AY_9 1 30.6 21.°42 9.°9/31.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 31.58	+ 8 1.8	1.068	1.842	25.0	19.9
1 2	9 26.19	+ 5 20.2	0.992	1.843	21.0	19.6
1 12	9 16.36	+ 2 45.8	0.935	1.844	16.4	19.4
1 22	9 2.81	+ 0 27.5	0.898	1.845	12.0	19.1
2 1	8 47.18	− 1 24.8	0.887	1.847	10.0	19.0
2 11	8 31.80	− 2 44.7	0.900	1.849	12.2	19.1
2 21	8 18.88	− 3 32.4	0.937	1.851	16.5	19.4
3 2	8 9.95	− 3 53.5	0.993	1.853	20.9	19.7

114036 2002 VK_9 1 30.6 4.°80 1.°9/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.45	+12 20.1	2.000	2.768	15.0	19.6
1 2	9 10.73	+12 4.0	1.911	2.768	12.0	19.4
1 12	9 4.69	+11 58.5	1.843	2.768	8.5	19.2
1 22	8 56.89	+12 2.4	1.802	2.769	4.6	19.0
2 1	8 48.15	+12 13.3	1.788	2.770	1.9	18.8
2 11	8 39.53	+12 28.2	1.803	2.772	4.8	19.0
2 21	8 32.01	+12 43.9	1.846	2.774	8.7	19.2
3 2	8 26.41	+12 57.5	1.914	2.776	12.2	19.5

114870 2003 QF_7 1 30.6 81.°63 0.°8/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.48	+17 54.6	2.077	2.854	14.2	20.0
1 2	9 12.14	+18 21.1	2.004	2.870	11.1	19.8
1 12	9 5.52	+18 55.7	1.954	2.887	7.5	19.6
1 22	8 57.22	+19 34.5	1.931	2.904	3.5	19.4
2 1	8 48.12	+20 12.6	1.937	2.921	1.1	19.2
2 11	8 39.25	+20 45.6	1.972	2.937	4.9	19.5
2 21	8 31.58	+21 10.7	2.036	2.954	8.6	19.8
3 2	8 25.86	+21 26.2	2.126	2.970	11.9	20.0

430086 2013 SC_{58} 1 30.6 100.°68 0.°1/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.48	+18 28.6	2.210	2.976	13.8	21.3
1 2	9 15.07	+18 16.1	2.129	2.988	10.9	21.1
1 12	9 7.40	+18 8.8	2.070	3.000	7.4	20.9
1 22	8 58.08	+18 4.1	2.039	3.012	3.5	20.7
2 1	8 47.99	+17 59.4	2.038	3.023	0.6	20.5
2 11	8 38.15	+17 52.4	2.068	3.034	4.6	20.8
2 21	8 29.52	+17 41.5	2.127	3.045	8.2	21.0
3 2	8 22.85	+17 26.4	2.212	3.056	11.5	21.3

470900 2009 CA_{42} 1 30.6 11.°44 1.°1/31.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.43	+11 4.4	2.164	2.928	14.1	20.9
1 2	9 8.24	+11 36.3	2.073	2.929	11.2	20.7
1 12	9 2.97	+12 22.2	2.004	2.930	7.8	20.5
1 22	8 56.07	+13 19.3	1.962	2.932	4.1	20.3
2 1	8 48.30	+14 23.4	1.949	2.933	1.1	20.1
2 11	8 40.57	+15 29.1	1.966	2.935	4.4	20.3
2 21	8 33.78	+16 31.2	2.011	2.937	8.2	20.5
3 2	8 28.71	+17 26.0	2.082	2.939	11.5	20.7

253704 2003 UU_{309} 1 30.6 166.°85 1.°0/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.45	+17 54.0	2.161	2.929	14.0	21.8
1 2	9 14.52	+18 30.6	2.073	2.935	11.0	21.6
1 12	9 7.23	+19 16.1	2.008	2.940	7.4	21.4
1 22	8 58.09	+20 6.1	1.971	2.944	3.5	21.2
2 1	8 47.98	+20 55.5	1.964	2.947	1.3	21.0
2 11	8 37.96	+21 39.1	1.987	2.950	5.1	21.3
2 21	8 29.07	+22 13.4	2.039	2.952	8.9	21.5
3 2	8 22.15	+22 36.8	2.118	2.953	12.2	21.7

283974 2004 RE_{148} 1 30.6 161.°57 3.°9/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.69	+25 30.3	1.817	2.604	15.6	21.3
1 2	9 17.66	+26 19.8	1.738	2.610	12.3	21.1
1 12	9 9.66	+27 13.7	1.682	2.615	8.5	20.9
1 22	8 59.33	+28 4.8	1.651	2.619	5.0	20.7
2 1	8 47.78	+28 45.6	1.649	2.622	4.3	20.7
2 11	8 36.44	+29 10.5	1.677	2.625	7.4	20.9
2 21	8 26.64	+29 17.5	1.731	2.628	11.2	21.1
3 2	8 19.39	+29 7.7	1.809	2.629	14.6	21.3

331258 2011 CL_{39} 1 30.6 33.°68 1.°3/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.15	+13 10.7	1.396	2.196	18.8	19.4
1 2	9 9.82	+14 49.1	1.336	2.216	14.6	19.2
1 12	9 4.52	+16 48.5	1.297	2.237	9.8	19.0
1 22	8 56.92	+19 0.1	1.283	2.259	4.5	18.7
2 1	8 48.17	+21 12.0	1.297	2.281	1.8	18.6
2 11	8 39.71	+23 12.0	1.339	2.304	6.7	19.0
2 21	8 32.85	+24 51.5	1.407	2.328	11.4	19.3
3 2	8 28.56	+26 6.8	1.499	2.353	15.4	19.6

378452 2007 RA_{313} 1 30.6 127.°68 4.°4/ 2.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.18	+ 2 28.2	2.530	3.242	13.6	21.2
1 2	9 9.92	+ 2 5.2	2.440	3.252	11.3	21.0
1 12	9 3.84	+ 1 56.2	2.373	3.261	8.7	20.8
1 22	8 56.40	+ 2 1.7	2.331	3.270	6.1	20.7
2 1	8 48.26	+ 2 20.7	2.317	3.278	4.5	20.6
2 11	8 40.21	+ 2 50.8	2.333	3.287	5.3	20.7
2 21	8 33.02	+ 3 28.5	2.378	3.295	7.6	20.8
3 2	8 27.31	+ 4 9.9	2.450	3.302	10.2	21.0

104354 2000 FX_{19} 1 30.6 275.°42 4.°5/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.66	+28 1.4	2.213	3.004	13.0	19.5
1 2	9 11.84	+29 5.6	2.122	2.995	10.3	19.3
1 12	9 5.58	+30 12.9	2.056	2.987	7.4	19.1
1 22	8 57.38	+31 16.9	2.017	2.978	4.9	18.9
2 1	8 48.09	+32 10.7	2.007	2.970	4.9	18.9
2 11	8 38.80	+32 49.1	2.025	2.961	7.3	19.0
2 21	8 30.60	+33 9.5	2.071	2.952	10.4	19.2
3 2	8 24.40	+33 12.0	2.140	2.944	13.3	19.4

117175 2004 RF_{59} 1 30.6 86.°93 0.°6/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.53	+16 29.7	1.987	2.765	14.7	19.9
1 2	9 11.58	+17 5.7	1.910	2.777	11.5	19.7
1 12	9 5.27	+17 52.2	1.855	2.788	7.8	19.5
1 22	8 57.16	+18 44.8	1.826	2.800	3.6	19.3
2 1	8 48.14	+19 38.2	1.827	2.811	1.0	19.1
2 11	8 39.29	+20 26.9	1.857	2.822	5.1	19.4
2 21	8 31.64	+21 7.0	1.915	2.833	9.0	19.7
3 2	8 25.98	+21 36.3	1.998	2.844	12.4	19.9

502833 2015 DQ_{151} 1 30.6 267.°96 2.°2/28.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.65	+21 23.7	2.458	3.239	12.2	21.6
1 2	9 9.96	+22 18.6	2.353	3.223	9.6	21.4
1 12	9 4.17	+23 21.0	2.272	3.207	6.5	21.2
1 22	8 56.68	+24 26.2	2.219	3.191	3.4	21.0
2 1	8 48.20	+25 28.7	2.196	3.174	2.6	20.9
2 11	8 39.62	+26 23.4	2.203	3.158	5.5	21.1
2 21	8 31.87	+27 6.4	2.239	3.141	8.8	21.2
3 2	8 25.75	+27 36.1	2.300	3.124	11.8	21.4

379830 2011 LU_{9} 1 30.6 84.°72 4.°1/ 2.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.09	+ 3 58.6	2.252	2.982	14.6	20.7
1 2	9 9.33	+ 3 46.0	2.164	2.989	12.1	20.5
1 12	9 3.58	+ 3 48.7	2.098	2.997	9.1	20.3
1 22	8 56.32	+ 4 6.9	2.057	3.004	6.1	20.1
2 1	8 48.28	+ 4 38.8	2.043	3.012	4.2	20.0
2 11	8 40.33	+ 5 21.0	2.059	3.019	5.2	20.1
2 21	8 33.31	+ 6 9.4	2.104	3.027	8.1	20.3
3 2	8 27.95	+ 6 59.3	2.174	3.034	11.0	20.5

467880 2011 DZ_{9} 1 30.6 359.°08 2.°9/ 1.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.86	+ 7 44.3	1.547	2.327	18.2	21.0
1 2	9 7.86	+ 7 58.7	1.463	2.325	14.8	20.8
1 12	9 3.16	+ 8 34.1	1.398	2.323	10.7	20.5
1 22	8 56.31	+ 9 29.0	1.357	2.322	6.2	20.3
2 1	8 48.26	+10 39.0	1.341	2.322	2.9	20.1
2 11	8 40.27	+11 56.8	1.352	2.323	5.7	20.2
2 21	8 33.57	+13 14.5	1.390	2.325	10.2	20.5
3 2	8 29.15	+14 25.2	1.451	2.328	14.4	20.8

459335 2012 HC_{39} 1 30.6 342.°56 9.°9/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.44	+37 11.4	1.223	2.046	19.6	19.5
1 2	9 17.92	+37 52.5	1.146	2.028	16.3	19.2
1 12	9 10.95	+38 25.9	1.087	2.013	12.9	19.0
1 22	9 0.29	+38 39.5	1.049	1.998	10.3	18.8
2 1	8 47.63	+38 21.6	1.034	1.986	10.3	18.7
2 11	8 35.34	+37 27.1	1.043	1.975	13.0	18.8
2 21	8 25.60	+35 59.2	1.072	1.965	16.8	19.0
3 2	8 19.82	+34 6.5	1.121	1.958	20.7	19.2

403545 2010 HM_{80} 1 30.6 231.°00 2.°9/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.48	+22 31.6	1.935	2.717	14.9	22.0
1 2	9 15.95	+23 19.5	1.835	2.705	11.8	21.8
1 12	9 8.59	+24 15.0	1.758	2.693	8.1	21.5
1 22	8 58.91	+25 12.4	1.708	2.679	4.3	21.3
2 1	8 47.85	+26 4.4	1.687	2.665	3.3	21.2
2 11	8 36.70	+26 44.8	1.696	2.650	6.8	21.4
2 21	8 26.77	+27 9.8	1.732	2.635	10.8	21.6
3 2	8 19.15	+27 18.8	1.792	2.618	14.5	21.8

55899 1998 BJ_{10} 1 30.6 254.°00 1.°5/31.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.66	+ 9 35.0	2.073	2.830	14.9	19.4
1 2	9 10.22	+10 9.2	1.968	2.820	12.0	19.1
1 12	9 4.48	+11 0.0	1.886	2.809	8.5	18.9
1 22	8 56.88	+12 5.1	1.830	2.797	4.6	18.6
2 1	8 48.18	+13 20.1	1.802	2.786	1.5	18.4
2 11	8 39.38	+14 38.9	1.805	2.774	4.8	18.6
2 21	8 31.51	+15 55.2	1.837	2.762	8.8	18.8
3 2	8 25.47	+17 4.0	1.894	2.750	12.6	19.0

186217 2001 WN_{48} 1 30.6 20.°70 11.°5/ 8.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.10	−13 59.1	1.903	2.547	19.5	19.9
1 2	9 9.13	−14 57.3	1.817	2.548	17.6	19.7
1 12	9 3.77	−15 28.0	1.747	2.550	15.5	19.6
1 22	8 56.54	−15 26.3	1.695	2.551	13.4	19.5
2 1	8 48.24	−14 49.3	1.665	2.553	11.9	19.4
2 11	8 39.96	−13 38.7	1.659	2.555	11.5	19.3
2 21	8 32.76	−12 0.7	1.678	2.558	12.5	19.4
3 2	8 27.51	−10 4.5	1.720	2.560	14.4	19.5

342882 2008 YO_{58} 1 30.6 154.°70 0.°7/31.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.71	+14 8.8	2.974	3.721	11.0	21.8
1 2	9 10.84	+14 11.5	2.882	3.729	8.7	21.7
1 12	9 4.32	+14 20.9	2.814	3.737	6.0	21.5
1 22	8 56.59	+14 35.4	2.775	3.744	3.0	21.3
2 1	8 48.25	+14 52.8	2.767	3.751	0.8	21.1
2 11	8 40.02	+15 10.5	2.790	3.757	3.5	21.3
2 21	8 32.56	+15 26.5	2.844	3.763	6.4	21.5
3 2	8 26.44	+15 39.2	2.926	3.768	9.0	21.7

401963 2002 SW_{21} 1 30.6 94.°21 3.°3/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.29	+24 27.1	1.848	2.634	15.4	21.6
1 2	9 16.99	+25 8.0	1.785	2.656	12.0	21.4
1 12	9 8.94	+25 52.7	1.744	2.678	8.2	21.2
1 22	8 58.88	+26 34.6	1.730	2.699	4.5	21.0
2 1	8 47.90	+27 7.4	1.745	2.720	3.6	21.0
2 11	8 37.33	+27 26.8	1.788	2.741	6.7	21.3
2 21	8 28.35	+27 31.1	1.860	2.761	10.3	21.5
3 2	8 21.81	+27 21.4	1.955	2.781	13.5	21.8

223718 2004 RW_{94} 1 30.6 149.°77 1.°5/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.49	+12 31.9	2.083	2.844	14.7	20.6
1 2	9 12.23	+12 28.6	1.993	2.847	11.7	20.4
1 12	9 5.68	+12 36.1	1.925	2.850	8.2	20.2
1 22	8 57.37	+12 52.6	1.884	2.852	4.3	19.9
2 1	8 48.13	+13 15.4	1.871	2.854	1.5	19.7
2 11	8 39.00	+13 40.7	1.888	2.856	4.7	20.0
2 21	8 30.96	+14 5.1	1.933	2.858	8.5	20.2
3 2	8 24.82	+14 25.7	2.004	2.860	12.0	20.4

405401 2004 PH_{35} 1 30.6 252.°74 5.°3/28.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 33.70	+31 37.7	1.869	2.639	15.8	21.8
1 2	9 26.74	+31 54.0	1.760	2.617	12.9	21.6
1 12	9 16.17	+32 7.3	1.673	2.595	9.4	21.3
1 22	9 2.60	+32 9.5	1.612	2.571	6.2	21.1
2 1	8 47.28	+31 53.0	1.581	2.547	5.6	21.0
2 11	8 31.97	+31 13.5	1.580	2.521	8.5	21.1
2 21	8 18.42	+30 12.2	1.608	2.495	12.5	21.3
3 2	8 7.94	+28 54.1	1.660	2.468	16.3	21.4

486809 2014 HP_{187} 1 30.6 229.°60 1.°6/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.74	+17 32.3	1.734	2.518	16.4	21.3
1 2	9 14.84	+18 26.9	1.637	2.508	12.9	21.0
1 12	9 7.99	+19 35.5	1.562	2.497	8.8	20.8
1 22	8 58.69	+20 52.7	1.513	2.486	4.2	20.5
2 1	8 47.89	+22 10.6	1.492	2.475	2.0	20.3
2 11	8 36.97	+23 20.9	1.500	2.463	6.5	20.5
2 21	8 27.32	+24 17.6	1.536	2.450	11.2	20.8
3 2	8 20.09	+24 57.8	1.595	2.436	15.3	21.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
233982 1995 *PW*			1 30.6	195.°43	0.°1/30.6	17
	h m	° ′			°	m
12 23	9 13.98	+16 22.2	2.812	3.573	11.3	22.1
1 2	9 9.72	+16 41.8	2.713	3.570	8.9	21.9
1 12	9 3.70	+17 8.5	2.639	3.568	6.0	21.7
1 22	8 56.36	+17 39.7	2.593	3.565	2.9	21.5
2 1	8 48.30	+18 12.2	2.577	3.562	0.5	21.3
2 11	8 40.27	+18 42.9	2.592	3.558	3.8	21.6
2 21	8 33.01	+19 9.2	2.638	3.554	6.9	21.8
3 2	8 27.14	+19 29.3	2.710	3.550	9.7	22.0
435945 2009 CY_{53}			1 30.6	329.°72	11.°8/18.4	15
12 23	9 14.54	+42 6.5	1.742	2.545	15.5	20.0
1 2	9 12.81	+44 47.3	1.662	2.519	13.5	19.8
1 12	9 7.46	+47 26.3	1.606	2.494	12.1	19.6
1 22	8 58.79	+49 49.1	1.575	2.469	11.9	19.6
2 1	8 47.83	+51 41.8	1.568	2.446	13.1	19.6
2 11	8 36.41	+52 55.1	1.585	2.423	15.3	19.7
2 21	8 26.55	+53 26.6	1.621	2.401	17.7	19.8
3 2	8 19.98	+53 20.2	1.674	2.381	20.0	19.9
297880 2002 CL_{139}			1 30.6	36.°83	4.°5/ 2.1	18
12 23	9 13.95	+ 6 0.6	1.239	2.024	21.6	19.8
1 2	9 11.49	+ 5 53.1	1.175	2.037	17.6	19.6
1 12	9 5.79	+ 6 10.6	1.129	2.051	12.9	19.4
1 22	8 57.58	+ 6 52.2	1.103	2.065	8.0	19.1
2 1	8 48.10	+ 7 53.6	1.102	2.080	4.5	19.0
2 11	8 38.95	+ 9 6.7	1.127	2.096	6.9	19.2
2 21	8 31.56	+10 22.1	1.176	2.113	11.5	19.5
3 2	8 26.99	+11 31.9	1.247	2.130	15.9	19.8
207586 2006 QA_{27}			1 30.6	155.°19	0.°7/31.3	18
12 23	9 13.20	+13 11.8	2.963	3.713	11.0	21.5
1 2	9 8.94	+13 31.3	2.870	3.719	8.7	21.3
1 12	9 3.09	+13 59.1	2.802	3.726	6.0	21.2
1 22	8 56.03	+14 33.1	2.762	3.732	3.0	21.0
2 1	8 48.36	+15 10.5	2.753	3.737	0.7	20.8
2 11	8 40.75	+15 48.1	2.775	3.742	3.5	21.0
2 21	8 33.88	+16 23.2	2.827	3.747	6.4	21.2
3 2	8 28.29	+16 53.7	2.907	3.752	9.0	21.4
87598 2000 RY_{32}			1 30.6	121.°89	1.°7/31.8	18
12 23	9 16.80	+10 59.8	2.228	2.979	14.2	20.2
1 2	9 12.22	+11 4.0	2.146	2.993	11.3	20.0
1 12	9 5.52	+11 19.8	2.086	3.006	7.9	19.8
1 22	8 57.24	+11 45.3	2.052	3.019	4.3	19.6
2 1	8 48.17	+12 17.5	2.049	3.031	1.7	19.5
2 11	8 39.27	+12 52.5	2.075	3.043	4.4	19.7
2 21	8 31.43	+13 26.7	2.131	3.054	7.9	19.9
3 2	8 25.36	+13 57.2	2.213	3.065	11.1	20.1
427450 2001 SC_6			1 30.6	166.°92	2.°9/ 2.2	18
12 23	9 12.34	+ 5 27.9	2.680	3.406	12.6	21.7
1 2	9 8.46	+ 5 35.5	2.582	3.409	10.3	21.6
1 12	9 2.87	+ 5 56.4	2.508	3.411	7.6	21.4
1 22	8 55.98	+ 6 29.7	2.460	3.414	4.8	21.2
2 1	8 48.38	+ 7 13.4	2.442	3.415	3.0	21.1
2 11	8 40.82	+ 8 4.0	2.454	3.417	4.2	21.2
2 21	8 34.01	+ 8 57.7	2.495	3.418	7.0	21.4
3 2	8 28.57	+ 9 50.7	2.564	3.419	9.7	21.5
259826 2004 CJ_8			1 30.6	54.°56	0.°5/30.4	18
12 23	9 15.70	+15 3.4	1.519	2.312	17.9	20.6
1 2	9 12.40	+15 46.7	1.451	2.326	14.0	20.3
1 12	9 6.18	+16 45.2	1.404	2.340	9.5	20.1
1 22	8 57.71	+17 53.4	1.381	2.355	4.4	19.9
2 1	8 48.11	+19 3.9	1.385	2.370	1.0	19.6
2 11	8 38.78	+20 8.7	1.417	2.385	6.0	20.0
2 21	8 31.01	+21 2.2	1.475	2.400	10.7	20.3
3 2	8 25.77	+21 41.2	1.557	2.415	14.7	20.6
369779 2012 GU_{26}			1 30.6	123.°37	3.°0/ 1.5	18
12 23	9 15.38	+ 8 23.6	1.976	2.729	15.7	21.2
1 2	9 11.49	+ 8 14.0	1.886	2.731	12.7	21.0
1 12	9 5.25	+ 8 18.7	1.818	2.734	9.2	20.8
1 22	8 57.21	+ 8 37.0	1.775	2.736	5.5	20.6
2 1	8 48.19	+ 9 6.4	1.760	2.739	3.0	20.4
2 11	8 39.25	+ 9 43.1	1.774	2.741	5.2	20.6
2 21	8 31.42	+10 22.6	1.816	2.743	8.8	20.8
3 2	8 25.53	+11 0.7	1.884	2.745	12.4	21.0
264529 2001 RP_{111}			1 30.6	66.°59	0.°8/30.2	18
12 23	9 19.34	+17 49.6	1.674	2.460	16.8	21.0
1 2	9 14.80	+18 13.0	1.613	2.484	13.1	20.8
1 12	9 7.52	+18 45.9	1.573	2.508	8.8	20.6
1 22	8 58.23	+19 23.6	1.559	2.533	4.1	20.4
2 1	8 48.04	+20 0.3	1.573	2.557	1.2	20.2
2 11	8 38.28	+20 30.9	1.615	2.581	5.6	20.6
2 21	8 30.10	+20 52.1	1.685	2.605	9.9	20.9
3 2	8 24.34	+21 2.8	1.778	2.629	13.5	21.1

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
348482 2005 SR_{175}			1 30.6	88.°55	3.°7/ 1.5	18
	h m	° ′			°	m
12 23	9 18.93	+ 8 12.8	1.447	2.217	19.7	20.8
1 2	9 15.00	+ 7 57.9	1.375	2.229	16.0	20.6
1 12	9 8.00	+ 8 2.0	1.321	2.241	11.6	20.4
1 22	8 58.60	+ 8 24.3	1.290	2.252	6.9	20.1
2 1	8 47.97	+ 9 1.4	1.285	2.264	3.7	20.0
2 11	8 37.61	+ 9 47.5	1.307	2.275	6.4	20.2
2 21	8 28.89	+10 36.3	1.355	2.286	10.9	20.4
3 2	8 22.83	+11 22.0	1.427	2.297	15.1	20.7
306437 1998 TV_{17}			1 30.6	100.°82	0.°5/30.4	18
12 23	9 18.96	+16 40.2	1.850	2.626	15.7	21.1
1 2	9 14.37	+17 7.4	1.777	2.643	12.3	20.9
1 12	9 7.20	+17 44.9	1.727	2.660	8.3	20.7
1 22	8 58.11	+18 28.3	1.703	2.676	3.9	20.5
2 1	8 48.07	+19 12.1	1.708	2.692	0.9	20.3
2 11	8 38.30	+19 51.2	1.742	2.708	5.3	20.6
2 21	8 29.91	+20 21.9	1.804	2.723	9.4	20.9
3 2	8 23.74	+20 42.2	1.891	2.738	13.0	21.1
152311 2005 TU_{132}			1 30.6	151.°39	0.°4/30.9	18
12 23	9 16.65	+14 41.0	2.113	2.880	14.3	21.5
1 2	9 12.35	+14 59.5	2.026	2.885	11.3	21.3
1 12	9 5.77	+15 28.4	1.961	2.890	7.8	21.1
1 22	8 57.43	+16 4.7	1.923	2.894	3.8	20.9
2 1	8 48.17	+16 44.4	1.914	2.898	0.6	20.6
2 11	8 39.01	+17 22.9	1.934	2.902	4.7	20.9
2 21	8 30.95	+17 56.4	1.984	2.906	8.6	21.2
3 2	8 24.78	+18 22.6	2.059	2.909	12.0	21.4
295764 2008 UB_{160}			1 30.6	60.°52	2.°4/29.1	18
12 23	9 16.45	+22 19.3	2.004	2.792	14.3	20.6
1 2	9 12.29	+22 56.4	1.935	2.808	11.1	20.5
1 12	9 5.72	+23 38.7	1.889	2.825	7.5	20.3
1 22	8 57.38	+24 21.1	1.869	2.841	3.8	20.1
2 1	8 48.19	+24 58.1	1.879	2.858	2.7	20.0
2 11	8 39.28	+25 25.2	1.918	2.875	5.8	20.3
2 21	8 31.65	+25 40.2	1.984	2.892	9.3	20.5
3 2	8 26.09	+25 42.7	2.074	2.909	12.5	20.7
496586 2015 BB_{101}			1 30.6	118.°79	1.°3/31.7	18
12 23	9 13.13	+10 30.4	2.370	3.123	13.4	21.4
1 2	9 9.33	+10 59.6	2.282	3.131	10.6	21.2
1 12	9 3.58	+11 41.7	2.217	3.139	7.4	21.1
1 22	8 56.36	+12 34.0	2.179	3.147	3.9	20.8
2 1	8 48.35	+13 32.8	2.171	3.154	1.3	20.7
2 11	8 40.43	+14 33.4	2.193	3.161	4.1	20.9
2 21	8 33.41	+15 31.3	2.244	3.168	7.6	21.1
3 2	8 27.97	+16 22.9	2.322	3.175	10.7	21.3
175933 2000 EA_{10}			1 30.6	267.°70	1.°6/29.8	18
12 23	9 18.41	+20 20.3	1.843	2.630	15.4	20.9
1 2	9 14.35	+20 39.8	1.746	2.618	12.2	20.6
1 12	9 7.51	+21 7.0	1.670	2.605	8.3	20.4
1 22	8 58.41	+21 37.3	1.620	2.593	4.0	20.1
2 1	8 48.01	+22 5.4	1.598	2.581	1.9	19.9
2 11	8 37.60	+22 26.2	1.605	2.568	6.0	20.1
2 21	8 28.44	+22 36.7	1.639	2.555	10.4	20.4
3 2	8 21.59	+22 35.7	1.697	2.543	14.3	20.6
220584 2004 JF_{28}			1 30.6	147.°74	5.°5/26.4	18
12 23	9 21.22	+32 26.0	2.329	3.108	12.8	20.5
1 2	9 16.00	+33 35.1	2.256	3.118	10.2	20.3
1 12	9 8.27	+34 43.0	2.207	3.127	7.6	20.1
1 22	8 58.62	+35 42.4	2.187	3.135	5.8	20.0
2 1	8 47.99	+36 26.9	2.195	3.143	5.9	20.1
2 11	8 37.55	+36 52.2	2.233	3.150	7.9	20.2
2 21	8 28.38	+36 57.5	2.297	3.156	10.4	20.4
3 2	8 21.35	+36 44.4	2.385	3.162	12.9	20.5
158952 2004 RG_{148}			1 30.6	124.°54	0.°3/30.9	18
12 23	9 15.22	+14 6.1	2.121	2.889	14.3	20.9
1 2	9 11.22	+14 34.1	2.036	2.896	11.3	20.7
1 12	9 4.99	+15 13.5	1.973	2.903	7.7	20.5
1 22	8 57.07	+16 1.1	1.937	2.909	3.7	20.3
2 1	8 48.24	+16 52.2	1.931	2.916	0.6	20.1
2 11	8 39.53	+17 42.0	1.954	2.922	4.6	20.4
2 21	8 31.87	+18 26.2	2.006	2.928	8.5	20.6
3 2	8 26.07	+19 2.0	2.084	2.934	11.8	20.8
274143 2008 FF_{56}			1 30.6	188.°72	1.°2/31.3	18
12 23	9 20.62	+12 24.7	1.730	2.496	17.1	21.7
1 2	9 16.09	+12 39.7	1.639	2.496	13.7	21.4
1 12	9 8.69	+13 9.6	1.569	2.495	9.6	21.2
1 22	8 58.97	+13 51.5	1.523	2.493	4.9	20.9
2 1	8 47.94	+14 40.7	1.507	2.491	1.3	20.7
2 11	8 36.94	+15 31.1	1.519	2.488	5.6	20.9
2 21	8 27.27	+16 17.3	1.559	2.483	10.2	21.2
3 2	8 20.01	+16 55.5	1.624	2.479	14.4	21.4

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
106983	2000 YC_{98}		1 30.6	336.°96	1.°5/29.9	18
	h m	° ′			°	m
12 23	9 13.18	+17 57.2	1.335	2.148	18.8	19.0
1 2	9 11.18	+18 31.4	1.251	2.138	14.9	18.8
1 12	9 5.87	+19 20.3	1.186	2.129	10.1	18.5
1 22	8 57.81	+20 18.4	1.145	2.120	4.8	18.1
2 1	8 48.12	+21 17.8	1.129	2.112	2.0	17.9
2 11	8 38.44	+22 9.8	1.138	2.105	7.2	18.2
2 21	8 30.38	+22 48.1	1.172	2.099	12.5	18.5
3 2	8 25.20	+23 10.0	1.227	2.094	17.2	18.8
61069	2000 LS_7		1 30.7	201.°37	3.°7/ 1.8	18
12 23	9 17.96	+ 6 27.7	1.893	2.636	16.6	19.4
1 2	9 13.74	+ 6 21.6	1.795	2.633	13.6	19.2
1 12	9 6.95	+ 6 32.3	1.719	2.629	10.1	18.9
1 22	8 58.12	+ 6 59.6	1.667	2.625	6.2	18.7
2 1	8 48.10	+ 7 41.2	1.643	2.620	3.7	18.5
2 11	8 38.07	+ 8 32.4	1.649	2.614	5.7	18.6
2 21	8 29.15	+ 9 27.7	1.682	2.608	9.5	18.8
3 2	8 22.33	+10 21.9	1.741	2.601	13.3	19.1
258898	2002 QE_{80}		1 30.7	202.°38	1.°7/29.5	18
12 23	9 17.36	+18 45.6	1.928	2.710	15.0	21.0
1 2	9 13.34	+19 35.0	1.838	2.708	11.8	20.8
1 12	9 6.72	+20 35.0	1.770	2.705	8.0	20.6
1 22	8 58.01	+21 40.3	1.728	2.702	3.8	20.3
2 1	8 48.12	+22 44.3	1.716	2.698	2.0	20.2
2 11	8 38.24	+23 40.5	1.733	2.694	5.9	20.4
2 21	8 29.55	+24 24.4	1.778	2.690	10.0	20.6
3 2	8 23.02	+24 53.9	1.847	2.685	13.6	20.9
347358	2012 QR_{40}		1 30.7	86.°89	5.°9/27.1	18
12 23	9 27.17	+37 57.3	2.526	3.289	12.4	20.3
1 2	9 20.15	+38 28.7	2.467	3.313	10.1	20.2
1 12	9 10.72	+38 53.1	2.433	3.337	7.8	20.1
1 22	8 59.63	+39 4.5	2.426	3.361	6.2	20.0
2 1	8 47.92	+38 58.4	2.448	3.384	6.2	20.1
2 11	8 36.74	+38 33.3	2.500	3.407	7.7	20.2
2 21	8 27.11	+37 50.8	2.580	3.429	9.8	20.4
3 2	8 19.73	+36 54.3	2.685	3.452	11.8	20.6
20087	1994 PC_7		1 30.7	306.°25	1.°6/31.8	18 R
12 23	9 12.41	+10 6.7	1.913	2.681	15.6	18.1
1 2	9 9.43	+10 35.0	1.816	2.673	12.5	17.9
1 12	9 4.05	+11 20.0	1.740	2.665	8.9	17.6
1 22	8 56.75	+12 19.5	1.689	2.657	4.7	17.4
2 1	8 48.33	+13 28.9	1.666	2.649	1.6	17.1
2 11	8 39.87	+14 41.9	1.672	2.642	5.0	17.3
2 21	8 32.43	+15 52.3	1.706	2.634	9.2	17.6
3 2	8 26.95	+16 54.9	1.765	2.627	13.0	17.8
3256	Daguerre		1 30.7	38.°83	3.°2/ 1.8	18
12 23	9 12.96	+ 6 48.3	1.795	2.554	16.8	16.7
1 2	9 9.82	+ 6 54.7	1.713	2.561	13.7	16.5
1 12	9 4.24	+ 7 19.3	1.652	2.568	10.0	16.3
1 22	8 56.79	+ 8 1.0	1.615	2.575	6.0	16.1
2 1	8 48.34	+ 8 56.2	1.605	2.583	3.3	15.9
2 11	8 40.01	+ 9 59.3	1.623	2.591	5.4	16.1
2 21	8 32.87	+11 4.2	1.669	2.599	9.2	16.3
3 2	8 27.77	+12 5.2	1.739	2.608	12.9	16.5
81776	2000 JL_{71}		1 30.7	219.°72	1.°2/31.5	17
12 23	9 17.78	+12 42.7	2.497	3.245	12.9	21.0
1 2	9 12.99	+12 48.2	2.387	3.234	10.3	20.8
1 12	9 6.13	+13 3.3	2.301	3.222	7.2	20.6
1 22	8 57.64	+13 26.1	2.242	3.210	3.8	20.3
2 1	8 48.20	+13 54.1	2.213	3.197	1.2	20.1
2 11	8 38.71	+14 23.7	2.216	3.183	4.2	20.3
2 21	8 30.05	+14 52.0	2.248	3.169	7.8	20.5
3 2	8 23.00	+15 16.2	2.308	3.153	11.0	20.7
15193	5148 $T\text{-}2$		1 30.7	121.°02	0.°1/30.7	18
12 23	9 23.63	+16 27.3	1.800	2.569	16.4	18.8
1 2	9 18.05	+16 33.8	1.726	2.587	12.9	18.6
1 12	9 9.71	+16 49.8	1.675	2.604	8.8	18.4
1 22	8 59.33	+17 11.5	1.649	2.621	4.2	18.2
2 1	8 47.96	+17 34.6	1.652	2.637	0.6	17.9
2 11	8 36.93	+17 54.5	1.686	2.653	5.3	18.3
2 21	8 27.42	+18 8.5	1.747	2.667	9.6	18.6
3 2	8 20.33	+18 15.1	1.834	2.681	13.3	18.8
222800	2002 CY_{232}		1 30.7	101.°17	1.°3/31.7	18
12 23	9 13.51	+10 8.4	2.002	2.764	15.2	20.0
1 2	9 10.07	+10 45.2	1.913	2.768	12.1	19.7
1 12	9 4.35	+11 38.2	1.846	2.771	8.5	19.5
1 22	8 56.83	+12 44.3	1.805	2.774	4.5	19.3
2 1	8 48.33	+13 58.8	1.793	2.777	1.3	19.1
2 11	8 39.89	+15 15.1	1.811	2.780	4.7	19.3
2 21	8 32.49	+16 27.4	1.857	2.783	8.7	19.6
3 2	8 26.97	+17 30.9	1.928	2.786	12.3	19.8

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
100708	1998 BL_{17}		1 30.7	67.°07	1.°8/29.7	18
	h m	° ′			°	m
12 23	9 19.81	+21 49.8	1.814	2.601	15.6	19.4
1 2	9 15.20	+22 1.4	1.737	2.610	12.2	19.2
1 12	9 7.87	+22 18.1	1.683	2.618	8.3	19.0
1 22	8 58.48	+22 35.3	1.654	2.627	4.0	18.8
2 1	8 48.09	+22 48.2	1.654	2.636	2.1	18.6
2 11	8 37.99	+22 52.8	1.683	2.646	5.9	18.9
2 21	8 29.36	+22 47.5	1.739	2.655	10.0	19.2
3 2	8 23.08	+22 32.3	1.819	2.664	13.5	19.4
104240	2000 ET_{133}		1 30.7	10.°80	0.°6/31.1	18
12 23	9 12.14	+12 8.5	2.059	2.829	14.6	19.4
1 2	9 8.97	+12 49.2	1.969	2.830	11.6	19.2
1 12	9 3.59	+13 44.3	1.902	2.831	8.0	19.0
1 22	8 56.47	+14 50.6	1.861	2.832	4.0	18.8
2 1	8 48.40	+16 2.9	1.848	2.833	0.7	18.5
2 11	8 40.36	+17 15.1	1.865	2.834	4.7	18.8
2 21	8 33.33	+18 21.7	1.911	2.836	8.6	19.1
3 2	8 28.11	+19 18.7	1.982	2.838	12.1	19.3
379963	2012 QR_{25}		1 30.7	315.°86	0.°9/31.2	17
12 23	9 13.49	+13 57.4	2.073	2.845	14.4	20.6
1 2	9 10.06	+14 2.8	1.974	2.836	11.5	20.3
1 12	9 4.35	+14 18.7	1.898	2.827	8.0	20.1
1 22	8 56.85	+14 43.2	1.848	2.819	4.0	19.9
2 1	8 48.34	+15 12.8	1.826	2.811	0.9	19.6
2 11	8 39.84	+15 43.5	1.833	2.802	4.7	19.9
2 21	8 32.34	+16 11.5	1.869	2.795	8.7	20.1
3 2	8 26.69	+16 34.1	1.929	2.787	12.3	20.3
461415	2001 TY_{145}		1 30.7	99.°57	3.°1/28.6	18
12 23	9 21.03	+23 59.7	2.111	2.889	14.0	21.6
1 2	9 15.70	+24 53.4	2.048	2.916	10.9	21.5
1 12	9 7.96	+25 51.0	2.009	2.942	7.4	21.3
1 22	8 58.45	+26 46.4	1.998	2.967	4.1	21.1
2 1	8 48.13	+27 33.3	2.017	2.991	3.4	21.1
2 11	8 38.14	+28 7.4	2.065	3.015	6.2	21.3
2 21	8 29.50	+28 26.8	2.142	3.038	9.4	21.6
3 2	8 22.99	+28 31.7	2.244	3.061	12.3	21.8
428444	2007 TV_{361}		1 30.7	97.°81	2.°9/28.4	18
12 23	9 15.71	+24 47.4	2.433	3.215	12.2	21.5
1 2	9 11.39	+25 33.0	2.356	3.226	9.5	21.3
1 12	9 5.00	+26 21.7	2.305	3.237	6.5	21.2
1 22	8 57.06	+27 8.7	2.280	3.249	3.7	21.0
2 1	8 48.34	+27 49.0	2.286	3.260	3.2	21.0
2 11	8 39.79	+28 18.6	2.322	3.270	5.6	21.2
2 21	8 32.27	+28 35.6	2.385	3.281	8.6	21.4
3 2	8 26.51	+28 39.8	2.474	3.292	11.3	21.6
294119	2007 TS_{250}		1 30.7	56.°56	0.°8/31.2	18
12 23	9 14.70	+14 28.3	2.226	2.993	13.7	20.5
1 2	9 10.71	+14 31.4	2.138	2.997	10.9	20.3
1 12	9 4.61	+14 43.6	2.072	3.000	7.5	20.1
1 22	8 56.90	+15 2.8	2.033	3.004	3.7	19.9
2 1	8 48.36	+15 25.8	2.023	3.008	0.8	19.7
2 11	8 39.94	+15 49.2	2.043	3.011	4.4	19.9
2 21	8 32.53	+16 9.9	2.091	3.015	8.0	20.2
3 2	8 26.86	+16 25.7	2.165	3.019	11.3	20.4
359635	2011 QB_{61}		1 30.7	10.°56	0.°1/30.6	18
12 23	9 19.79	+17 51.1	1.372	2.172	19.1	20.7
1 2	9 16.11	+17 41.3	1.294	2.172	15.2	20.5
1 12	9 9.02	+17 41.3	1.236	2.173	10.4	20.2
1 22	8 59.22	+17 47.6	1.200	2.174	5.0	19.9
2 1	8 47.99	+17 55.5	1.191	2.176	0.8	19.6
2 11	8 37.01	+18 0.1	1.209	2.178	6.5	20.0
2 21	8 27.83	+17 58.6	1.252	2.181	11.7	20.3
3 2	8 21.60	+17 49.6	1.317	2.184	16.3	20.6
34546	2000 SG_{234}		1 30.7	163.°98	2.°8/28.7	18
12 23	9 21.51	+22 50.1	2.149	2.924	13.9	19.1
1 2	9 16.27	+23 44.3	2.065	2.931	10.9	18.9
1 12	9 8.52	+24 44.5	2.006	2.938	7.4	18.7
1 22	8 58.82	+25 44.7	1.973	2.943	4.0	18.5
2 1	8 48.07	+26 38.5	1.972	2.948	3.1	18.4
2 11	8 37.44	+27 20.4	2.000	2.952	6.2	18.6
2 21	8 28.03	+27 47.8	2.057	2.955	9.7	18.9
3 2	8 20.72	+28 0.2	2.139	2.957	12.8	19.1
219398	2000 SD_{180}		1 30.7	129.°25	4.°6/ 2.6	18
12 23	9 16.39	+ 3 49.7	2.193	2.917	15.1	20.3
1 2	9 11.98	+ 3 21.2	2.105	2.925	12.5	20.1
1 12	9 5.45	+ 3 7.5	2.039	2.934	9.5	19.9
1 22	8 57.30	+ 3 9.3	1.997	2.942	6.5	19.7
2 1	8 48.32	+ 3 25.6	1.984	2.950	4.7	19.6
2 11	8 39.44	+ 3 53.6	2.000	2.957	5.7	19.7
2 21	8 31.58	+ 4 29.6	2.045	2.964	8.5	19.9
3 2	8 25.48	+ 5 9.0	2.115	2.971	11.4	20.1

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
242106	2002 VJ_{29}		1 30.7	64.°33	10.°8/ 9.8	18
	h m	° ′			°	m
12 23	9 12.63	−16 38.0	2.289	2.893	17.4	19.8
1 2	9 9.05	−17 39.4	2.215	2.909	15.8	19.7
1 12	9 3.45	−18 16.1	2.157	2.926	14.0	19.6
1 22	8 56.35	−18 24.2	2.118	2.943	12.3	19.5
2 1	8 48.47	−18 1.8	2.101	2.959	11.1	19.5
2 11	8 40.71	−17 10.5	2.108	2.976	10.8	19.5
2 21	8 33.91	−15 55.0	2.140	2.993	11.3	19.5
3 2	8 28.78	−14 22.4	2.195	3.010	12.6	19.6
264688	2002 AB_{8}		1 30.7	32.°34	1.°7/31.5	18
12 23	9 15.95	+13 3.9	1.605	2.388	17.5	20.8
1 2	9 12.43	+12 53.6	1.530	2.397	13.9	20.6
1 12	9 6.14	+12 56.2	1.475	2.405	9.7	20.4
1 22	8 57.74	+13 9.8	1.445	2.415	5.1	20.1
2 1	8 48.26	+13 30.8	1.441	2.425	1.7	19.9
2 11	8 39.03	+13 54.7	1.465	2.435	5.5	20.2
2 21	8 31.25	+14 17.3	1.516	2.446	10.0	20.5
3 2	8 25.84	+14 35.3	1.590	2.458	13.9	20.8
445038	2008 RL_{106}		1 30.7	83.°99	4.°1/28.9	18
12 23	9 23.70	+25 12.5	1.435	2.237	18.3	21.2
1 2	9 19.04	+25 49.6	1.370	2.250	14.4	21.0
1 12	9 10.88	+26 31.2	1.325	2.262	9.9	20.7
1 22	9 0.04	+27 9.3	1.305	2.275	5.5	20.5
2 1	8 47.91	+27 35.6	1.311	2.287	4.4	20.5
2 11	8 36.25	+27 44.7	1.345	2.300	8.1	20.7
2 21	8 26.62	+27 35.5	1.404	2.312	12.4	21.0
3 2	8 20.09	+27 10.1	1.485	2.324	16.3	21.3
130523	2000 QX_{183}		1 30.7	185.°04	0.°1/30.6	18
12 23	9 19.92	+15 27.9	2.073	2.837	14.7	21.7
1 2	9 15.08	+15 54.0	1.979	2.837	11.6	21.5
1 12	9 7.76	+16 30.9	1.908	2.837	8.0	21.2
1 22	8 58.50	+17 15.0	1.864	2.836	3.8	21.0
2 1	8 48.15	+18 1.5	1.849	2.834	0.6	20.7
2 11	8 37.84	+18 45.3	1.865	2.832	5.0	21.0
2 21	8 28.66	+19 22.4	1.910	2.828	9.1	21.3
3 2	8 21.51	+19 50.4	1.981	2.824	12.6	21.5
283980	2004 RN_{172}		1 30.7	100.°15	4.°0/ 1.8	18
12 23	9 19.16	+ 7 0.0	1.614	2.370	18.5	20.8
1 2	9 14.87	+ 6 41.8	1.539	2.384	15.1	20.6
1 12	9 7.77	+ 6 41.7	1.484	2.397	11.1	20.3
1 22	8 58.51	+ 6 59.2	1.452	2.411	6.8	20.1
2 1	8 48.16	+ 7 31.6	1.448	2.424	4.0	20.0
2 11	8 38.05	+ 8 14.0	1.471	2.437	6.1	20.1
2 21	8 29.42	+ 9 0.7	1.521	2.449	10.1	20.4
3 2	8 23.22	+ 9 46.2	1.596	2.462	14.0	20.7
491182	2011 UC_{53}		1 30.7	131.°08	0.°4/30.4	18
12 23	9 19.89	+15 56.8	1.913	2.683	15.5	22.3
1 2	9 15.10	+16 30.4	1.835	2.697	12.2	22.1
1 12	9 7.76	+17 15.2	1.780	2.711	8.3	21.9
1 22	8 58.46	+18 6.6	1.751	2.724	3.9	21.7
2 1	8 48.17	+18 59.2	1.751	2.736	0.8	21.4
2 11	8 38.08	+19 47.3	1.781	2.747	5.2	21.8
2 21	8 29.29	+20 26.6	1.840	2.758	9.3	22.0
3 2	8 22.70	+20 55.1	1.924	2.768	12.9	22.3
373021	2011 DO_{37}		1 30.7	49.°04	0.°5/30.9	18
12 23	9 15.63	+14 58.2	1.951	2.726	15.1	21.8
1 2	9 11.80	+15 8.2	1.865	2.729	11.9	21.6
1 12	9 5.55	+15 28.8	1.800	2.731	8.2	21.3
1 22	8 57.43	+15 57.2	1.762	2.734	4.0	21.1
2 1	8 48.32	+16 29.2	1.752	2.736	0.7	20.8
2 11	8 39.34	+17 0.5	1.771	2.739	4.9	21.1
2 21	8 31.51	+17 27.3	1.817	2.742	9.0	21.4
3 2	8 25.71	+17 47.2	1.889	2.745	12.6	21.6
366445	2001 XO_{216}		1 30.7	80.°08	5.°0/ 2.4	18
12 23	9 17.20	+ 4 48.7	1.895	2.633	16.7	20.8
1 2	9 12.94	+ 4 7.4	1.813	2.642	13.8	20.6
1 12	9 6.26	+ 3 41.8	1.751	2.652	10.5	20.4
1 22	8 57.75	+ 3 32.7	1.714	2.662	7.1	20.2
2 1	8 48.28	+ 3 39.6	1.704	2.672	5.1	20.1
2 11	8 38.98	+ 3 59.7	1.723	2.681	6.3	20.2
2 21	8 30.88	+ 4 28.9	1.769	2.691	9.4	20.4
3 2	8 24.82	+ 5 2.5	1.840	2.700	12.7	20.6
202656	2006 KE_{11}		1 30.7	104.°51	5.°2/26.6	18
12 23	9 16.82	+30 11.2	2.188	2.979	13.2	20.5
1 2	9 12.79	+31 21.8	2.109	2.980	10.5	20.4
1 12	9 6.26	+32 33.4	2.055	2.982	7.6	20.2
1 22	8 57.79	+33 39.0	2.028	2.983	5.5	20.1
2 1	8 48.28	+34 31.7	2.030	2.985	5.6	20.1
2 11	8 38.87	+35 6.4	2.059	2.986	7.8	20.2
2 21	8 30.66	+35 21.4	2.116	2.988	10.6	20.4
3 2	8 24.54	+35 17.6	2.196	2.989	13.3	20.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
31108	1997 PW_{3}		1 30.7	354.°15	3.°8/29.0	18 R
	h m	° ′			°	m
12 23	9 21.16	+24 40.0	1.410	2.216	18.3	18.5
1 2	9 17.32	+25 8.0	1.333	2.215	14.5	18.3
1 12	9 9.94	+25 41.3	1.276	2.214	10.0	18.0
1 22	8 59.72	+26 12.6	1.242	2.214	5.5	17.7
2 1	8 47.98	+26 33.9	1.235	2.213	4.1	17.7
2 11	8 36.50	+26 39.4	1.255	2.213	8.1	17.9
2 21	8 26.92	+26 27.2	1.299	2.213	12.8	18.1
3 2	8 20.43	+25 59.2	1.366	2.214	17.0	18.4
93444	2000 SN_{336}		1 30.7	9.°20	4.°1/28.9	18
12 23	9 17.46	+26 9.5	1.452	2.265	17.6	18.2
1 2	9 14.21	+26 32.2	1.381	2.267	13.9	18.0
1 12	9 7.66	+26 57.7	1.330	2.270	9.6	17.7
1 22	8 58.56	+27 19.2	1.303	2.274	5.5	17.5
2 1	8 48.17	+27 29.7	1.302	2.278	4.4	17.5
2 11	8 38.14	+27 24.5	1.327	2.284	7.9	17.7
2 21	8 29.93	+27 2.7	1.377	2.291	12.2	17.9
3 2	8 24.58	+26 26.2	1.449	2.299	16.1	18.2
26506	2000 CO_{25}		1 30.7	182.°48	2.°4/ 1.6	18
12 23	9 12.59	+ 7 16.4	2.289	3.033	14.0	19.2
1 2	9 9.07	+ 7 39.6	2.193	3.033	11.4	19.0
1 12	9 3.54	+ 8 18.3	2.119	3.033	8.2	18.8
1 22	8 56.45	+ 9 10.7	2.072	3.033	4.8	18.6
2 1	8 48.50	+10 13.5	2.053	3.033	2.4	18.4
2 11	8 40.57	+11 21.9	2.065	3.033	4.4	18.6
2 21	8 33.52	+12 30.6	2.106	3.032	7.8	18.8
3 2	8 28.08	+13 35.1	2.173	3.032	11.1	19.0
59484	1999 JJ		1 30.7	246.°70	16.°0/ 4.7	18
12 23	9 21.34	− 8 45.5	1.270	1.973	25.1	18.4
1 2	9 17.80	−11 19.3	1.190	1.969	22.6	18.1
1 12	9 10.60	−13 29.4	1.126	1.964	20.0	17.9
1 22	9 0.24	−15 4.3	1.080	1.959	17.5	17.7
2 1	8 47.88	−15 54.0	1.054	1.954	16.1	17.6
2 11	8 35.30	−15 54.9	1.049	1.948	16.3	17.6
2 21	8 24.35	−15 11.4	1.064	1.943	18.1	17.7
3 2	8 16.53	−13 54.4	1.098	1.937	20.8	17.9
54927	2001 OD_{100}		1 30.7	128.°22	0.°7/30.2	18
12 23	9 17.27	+19 25.6	2.528	3.295	12.3	19.1
1 2	9 12.43	+19 33.5	2.442	3.303	9.6	19.0
1 12	9 5.63	+19 46.4	2.381	3.312	6.5	18.8
1 22	8 57.37	+20 1.2	2.347	3.320	3.0	18.6
2 1	8 48.40	+20 14.9	2.344	3.328	1.0	18.4
2 11	8 39.58	+20 24.6	2.371	3.335	4.3	18.7
2 21	8 31.75	+20 28.6	2.428	3.343	7.6	18.9
3 2	8 25.57	+20 25.9	2.511	3.350	10.5	19.1
36074	1999 RF_{58}		1 30.7	219.°59	1.°0/31.4	18
12 23	9 15.35	+12 40.0	2.353	3.109	13.3	20.2
1 2	9 11.24	+12 57.0	2.250	3.102	10.7	20.0
1 12	9 5.04	+13 25.1	2.171	3.095	7.4	19.8
1 22	8 57.20	+14 1.9	2.118	3.087	3.8	19.5
2 1	8 48.41	+14 44.3	2.095	3.079	1.0	19.3
2 11	8 39.61	+15 27.8	2.102	3.070	4.3	19.5
2 21	8 31.69	+16 8.8	2.139	3.061	8.0	19.7
3 2	8 25.41	+16 44.2	2.202	3.052	11.3	19.9
416921	2005 SF_{51}		1 30.7	96.°44	0.°6/31.0	18
12 23	9 17.22	+14 29.7	1.933	2.704	15.3	21.8
1 2	9 12.98	+14 41.8	1.854	2.715	12.1	21.6
1 12	9 6.30	+15 4.9	1.797	2.726	8.3	21.4
1 22	8 57.79	+15 36.0	1.765	2.737	4.1	21.2
2 1	8 48.34	+16 10.8	1.763	2.748	0.7	21.0
2 11	8 39.09	+16 44.8	1.790	2.758	4.9	21.3
2 21	8 31.08	+17 14.1	1.845	2.769	8.9	21.5
3 2	8 25.13	+17 36.4	1.925	2.779	12.5	21.8
488922	2005 UT_{22}		1 30.7	140.°16	2.°1/29.6	18
12 23	9 22.22	+20 37.7	1.612	2.400	17.2	22.0
1 2	9 17.56	+21 10.7	1.535	2.408	13.5	21.8
1 12	9 9.79	+21 52.3	1.479	2.415	9.2	21.6
1 22	8 59.57	+22 36.6	1.449	2.422	4.5	21.3
2 1	8 48.07	+23 16.5	1.446	2.428	2.5	21.2
2 11	8 36.82	+23 45.8	1.472	2.434	6.7	21.5
2 21	8 27.21	+24 1.5	1.525	2.439	11.2	21.7
3 2	8 20.30	+24 3.2	1.601	2.444	15.1	22.0
37088	2000 UE_{70}		1 30.7	234.°41	2.°8/ 1.1	18
12 23	9 18.63	+10 13.4	1.788	2.548	16.8	19.1
1 2	9 14.50	+ 9 57.6	1.690	2.541	13.7	18.9
1 12	9 7.64	+ 9 55.5	1.613	2.533	9.8	18.6
1 22	8 58.57	+10 6.3	1.560	2.525	5.7	18.3
2 1	8 48.21	+10 27.8	1.535	2.516	2.8	18.1
2 11	8 37.82	+10 56.0	1.539	2.507	5.6	18.3
2 21	8 28.64	+11 26.5	1.571	2.498	10.0	18.5
3 2	8 21.70	+11 55.2	1.627	2.488	14.0	18.7

421520 2014 OH_{109} 1 30.7 111.°95 1.°3/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.26	+19 21.0	1.875	2.653	15.5	22.2
1 2	9 16.20	+19 48.2	1.803	2.670	12.1	22.0
1 12	9 8.50	+20 23.2	1.754	2.687	8.2	21.8
1 22	8 58.83	+21 1.1	1.730	2.703	3.9	21.6
2 1	8 48.21	+21 36.4	1.736	2.719	1.6	21.5
2 11	8 37.89	+22 4.3	1.772	2.735	5.6	21.8
2 21	8 29.00	+22 22.0	1.835	2.750	9.6	22.0
3 2	8 22.40	+22 28.8	1.923	2.764	13.1	22.3

174361 Rickwhite 1 30.7 339.°51 2.°8/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.91	+17 15.2	1.304	2.125	18.7	19.2
1 2	9 8.02	+18 39.3	1.218	2.110	14.8	18.9
1 12	9 3.91	+20 24.9	1.152	2.097	10.0	18.6
1 22	8 57.03	+22 24.5	1.109	2.085	4.9	18.2
2 1	8 48.44	+24 26.0	1.092	2.073	3.4	18.1
2 11	8 39.71	+26 16.0	1.101	2.064	8.3	18.4
2 21	8 32.48	+27 44.6	1.134	2.055	13.6	18.6
3 2	8 28.11	+28 46.6	1.188	2.048	18.2	18.9

307626 2003 SS_{76} 1 30.7 68.°08 5.°6/ 2.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.20	+ 2 55.3	1.543	2.288	19.7	20.4
1 2	9 14.08	+ 2 32.3	1.480	2.313	16.2	20.2
1 12	9 7.18	+ 2 31.7	1.436	2.338	12.3	20.1
1 22	8 58.23	+ 2 53.7	1.415	2.363	8.3	19.9
2 1	8 48.31	+ 3 35.7	1.420	2.388	5.7	19.8
2 11	8 38.77	+ 4 32.3	1.452	2.413	6.9	19.9
2 21	8 30.79	+ 5 36.2	1.510	2.437	10.3	20.2
3 2	8 25.23	+ 6 40.4	1.593	2.462	13.8	20.5

125883 2001 XQ_{205} 1 30.7 118.°18 3.°9/ 1.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.95	+ 6 30.2	1.694	2.445	18.0	19.9
1 2	9 14.63	+ 6 19.1	1.616	2.457	14.7	19.7
1 12	9 7.60	+ 6 26.2	1.557	2.469	10.8	19.5
1 22	8 58.48	+ 6 50.8	1.523	2.480	6.7	19.3
2 1	8 48.28	+ 7 30.3	1.515	2.491	3.9	19.1
2 11	8 38.26	+ 8 19.4	1.537	2.502	5.9	19.3
2 21	8 29.63	+ 9 12.3	1.585	2.512	9.9	19.5
3 2	8 23.32	+10 3.6	1.658	2.522	13.6	19.8

307892 2004 CL_7 1 30.7 290.°30 2.°0/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.74	+20 45.7	1.719	2.512	16.1	20.7
1 2	9 14.24	+21 10.6	1.615	2.491	12.8	20.5
1 12	9 7.76	+21 44.2	1.532	2.469	8.8	20.2
1 22	8 58.76	+22 21.7	1.475	2.448	4.3	19.9
2 1	8 48.21	+22 56.8	1.445	2.427	2.3	19.7
2 11	8 37.50	+23 23.4	1.443	2.406	6.6	19.9
2 21	8 28.05	+23 37.7	1.467	2.384	11.3	20.1
3 2	8 21.07	+23 38.3	1.515	2.363	15.6	20.3

170863 2004 GD_{13} 1 30.7 285.°91 1.°1/31.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.51	+13 13.8	2.381	3.142	13.1	20.5
1 2	9 9.82	+13 17.3	2.273	3.128	10.4	20.3
1 12	9 4.11	+13 30.3	2.188	3.114	7.3	20.1
1 22	8 56.78	+13 51.3	2.130	3.100	3.8	19.9
2 1	8 48.53	+14 17.6	2.101	3.085	1.1	19.6
2 11	8 40.24	+14 45.7	2.103	3.071	4.2	19.8
2 21	8 32.78	+15 12.4	2.132	3.057	7.9	20.0
3 2	8 26.92	+15 35.0	2.188	3.043	11.2	20.2

191330 2003 OX_{28} 1 30.7 101.°36 0.°3/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.43	+16 11.4	2.131	2.905	14.0	20.4
1 2	9 11.43	+16 39.5	2.049	2.913	11.0	20.2
1 12	9 5.19	+17 17.2	1.990	2.921	7.5	20.0
1 22	8 57.27	+18 1.0	1.957	2.930	3.5	19.7
2 1	8 48.47	+18 46.3	1.953	2.938	0.7	19.5
2 11	8 39.81	+19 28.3	1.980	2.946	4.7	19.8
2 21	8 32.24	+20 3.4	2.034	2.954	8.5	20.1
3 2	8 26.51	+20 29.4	2.115	2.962	11.8	20.3

464018 2014 WB_{123} 1 30.7 148.°46 3.°0/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.04	+24 0.5	1.965	2.752	14.6	22.0
1 2	9 14.61	+24 35.2	1.882	2.754	11.4	21.8
1 12	9 7.55	+25 14.4	1.822	2.756	7.8	21.6
1 22	8 58.46	+25 52.5	1.788	2.759	4.2	21.3
2 1	8 48.30	+26 23.7	1.783	2.760	3.3	21.3
2 11	8 38.31	+26 43.3	1.807	2.762	6.4	21.5
2 21	8 29.63	+26 49.1	1.859	2.764	10.1	21.7
3 2	8 23.18	+26 41.3	1.935	2.765	13.4	21.9

179275 2001 UH_{214} 1 30.7 285.°01 3.°5/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.07	+23 23.8	1.847	2.641	15.1	19.8
1 2	9 13.61	+24 15.8	1.742	2.619	12.0	19.5
1 12	9 7.27	+25 16.2	1.660	2.596	8.3	19.2
1 22	8 58.53	+26 18.8	1.604	2.574	4.6	19.0
2 1	8 48.28	+27 15.7	1.575	2.551	3.8	18.9
2 11	8 37.83	+28 0.1	1.576	2.529	7.3	19.0
2 21	8 28.54	+28 27.6	1.602	2.506	11.5	19.2
3 2	8 21.59	+28 37.1	1.652	2.483	15.3	19.4

296100 2009 BS_{39} 1 30.7 240.°08 1.°4/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.63	+20 3.8	1.779	2.563	16.0	20.9
1 2	9 16.22	+20 18.7	1.684	2.555	12.7	20.6
1 12	9 8.89	+20 41.2	1.611	2.546	8.6	20.4
1 22	8 59.21	+21 6.9	1.564	2.537	4.2	20.1
2 1	8 48.19	+21 30.5	1.545	2.528	1.7	19.9
2 11	8 37.20	+21 46.9	1.554	2.519	6.1	20.1
2 21	8 27.56	+21 53.2	1.591	2.509	10.6	20.4
3 2	8 20.36	+21 48.7	1.652	2.499	14.6	20.6

87538 2000 QA_{206} 1 30.7 47.°04 6.°7/ 5.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.58	− 6 38.8	2.454	3.126	14.9	19.5
1 2	9 7.36	− 6 49.2	2.360	3.128	13.0	19.3
1 12	9 2.32	− 6 39.0	2.284	3.131	10.7	19.1
1 22	8 55.89	− 6 6.8	2.232	3.135	8.5	19.0
2 1	8 48.71	− 5 12.9	2.206	3.138	6.9	18.9
2 11	8 41.57	− 4 0.4	2.207	3.141	7.0	18.9
2 21	8 35.22	− 2 34.7	2.237	3.144	8.5	19.0
3 2	8 30.32	− 1 2.0	2.294	3.148	10.7	19.2

415074 2012 BF_{70} 1 30.7 357.°24 1.°6/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.56	+19 19.0	1.574	2.373	17.1	21.6
1 2	9 13.28	+19 48.2	1.493	2.372	13.5	21.3
1 12	9 7.00	+20 27.8	1.432	2.371	9.1	21.1
1 22	8 58.32	+21 12.4	1.396	2.370	4.4	20.8
2 1	8 48.34	+21 55.5	1.387	2.370	2.0	20.6
2 11	8 38.48	+22 30.5	1.405	2.370	6.5	20.9
2 21	8 30.13	+22 53.5	1.449	2.371	11.1	21.2
3 2	8 24.33	+23 3.0	1.517	2.371	15.2	21.4

379119 2008 YL_{171} 1 30.7 58.°02 0.°6/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.30	+15 1.8	2.019	2.791	14.8	20.8
1 2	9 12.07	+15 5.2	1.948	2.810	11.6	20.6
1 12	9 5.58	+15 18.2	1.898	2.828	7.9	20.4
1 22	8 57.43	+15 37.8	1.875	2.847	3.9	20.2
2 1	8 48.50	+16 0.7	1.881	2.866	0.7	20.0
2 11	8 39.84	+16 23.0	1.916	2.885	4.6	20.3
2 21	8 32.39	+16 41.6	1.979	2.904	8.4	20.6
3 2	8 26.89	+16 54.7	2.068	2.923	11.7	20.8

233483 2006 SC_{352} 1 30.7 129.°13 4.°0/ 2.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.35	+ 3 9.9	2.581	3.299	13.2	20.5
1 2	9 8.60	+ 2 57.4	2.486	3.303	11.0	20.4
1 12	9 3.08	+ 2 58.9	2.414	3.306	8.4	20.2
1 22	8 56.24	+ 3 14.4	2.367	3.310	5.7	20.0
2 1	8 48.68	+ 3 42.7	2.348	3.313	4.1	19.9
2 11	8 41.17	+ 4 21.0	2.359	3.317	4.9	20.0
2 21	8 34.45	+ 5 5.6	2.399	3.320	7.3	20.1
3 2	8 29.13	+ 5 52.6	2.466	3.323	10.0	20.3

322097 2010 VR_{137} 1 30.7 114.°11 5.°9/ 4.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.19	− 2 17.2	2.180	2.874	16.0	20.8
1 2	9 11.82	− 2 28.9	2.100	2.893	13.5	20.6
1 12	9 5.35	− 2 20.4	2.040	2.911	10.7	20.4
1 22	8 57.33	− 1 51.0	2.004	2.929	7.9	20.3
2 1	8 48.52	− 1 2.0	1.995	2.946	6.1	20.2
2 11	8 39.86	+ 0 2.5	2.016	2.963	6.5	20.3
2 21	8 32.24	+ 1 16.9	2.064	2.979	8.7	20.4
3 2	8 26.37	+ 2 34.9	2.140	2.994	11.4	20.6

285113 1995 OE_{13} 1 30.7 9.°57 2.°5/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.27	+24 20.5	1.881	2.667	15.2	20.8
1 2	9 16.43	+24 27.7	1.796	2.667	12.0	20.6
1 12	9 8.82	+24 37.6	1.733	2.667	8.2	20.4
1 22	8 59.08	+24 45.2	1.697	2.668	4.3	20.2
2 1	8 48.25	+24 45.9	1.688	2.668	2.8	20.1
2 11	8 37.65	+24 36.2	1.709	2.669	6.2	20.3
2 21	8 28.50	+24 15.3	1.758	2.669	10.2	20.5
3 2	8 21.72	+23 44.1	1.831	2.670	13.7	20.7

52059 2002 PH_{133} 1 30.7 194.°44 0.°4/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.14	+16 54.3	2.115	2.883	14.3	20.3
1 2	9 14.47	+17 15.1	2.020	2.881	11.3	20.1
1 12	9 7.38	+17 45.0	1.948	2.878	7.7	19.9
1 22	8 58.39	+18 20.5	1.903	2.875	3.7	19.6
2 1	8 48.35	+18 57.2	1.887	2.872	0.8	19.4
2 11	8 38.35	+19 30.4	1.902	2.867	5.0	19.7
2 21	8 29.45	+19 56.7	1.945	2.863	8.9	19.9
3 2	8 22.52	+20 14.2	2.014	2.857	12.5	20.1

245939 2006 RR_{78} 1 30.7 103.°54 3.°2/ 2.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.21	+ 4 18.8	2.618	3.341	12.9	21.0
1 2	9 8.41	+ 4 25.6	2.531	3.353	10.6	20.8
1 12	9 2.91	+ 4 46.5	2.466	3.365	7.9	20.7
1 22	8 56.13	+ 5 20.6	2.427	3.377	5.1	20.5
2 1	8 48.70	+ 6 5.8	2.417	3.389	3.3	20.4
2 11	8 41.37	+ 6 58.6	2.438	3.400	4.3	20.5
2 21	8 34.83	+ 7 54.9	2.488	3.412	7.0	20.7
3 2	8 29.68	+ 8 50.7	2.565	3.423	9.6	20.8

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
289956	2005 NU_{67}		1 30.7	38.°47	1.°4/31.4	18
	h m	° ′			°	m
12 23	9 17.07	+13 51.9	1.490	2.279	18.4	20.0
1 2	9 13.52	+13 43.5	1.420	2.291	14.6	19.8
1 12	9 7.02	+13 48.3	1.371	2.303	10.1	19.5
1 22	8 58.26	+14 3.8	1.345	2.316	5.2	19.3
2 1	8 48.39	+14 25.9	1.345	2.329	1.4	19.1
2 11	8 38.84	+14 49.8	1.373	2.343	5.7	19.4
2 21	8 30.89	+15 11.0	1.426	2.358	10.4	19.7
3 2	8 25.50	+15 26.5	1.503	2.372	14.5	20.0
55071	2001 QE_{86}		1 30.7	129.°89	4.°4/26.4	18
12 23	9 16.33	+29 54.1	2.743	3.523	11.1	18.9
1 2	9 11.86	+31 11.7	2.670	3.534	8.8	18.8
1 12	9 5.38	+32 30.0	2.622	3.545	6.4	18.6
1 22	8 57.36	+33 43.1	2.602	3.555	4.6	18.5
2 1	8 48.52	+34 45.3	2.613	3.566	4.7	18.6
2 11	8 39.76	+35 32.4	2.654	3.575	6.6	18.7
2 21	8 31.93	+36 2.6	2.723	3.585	8.9	18.8
3 2	8 25.75	+36 16.3	2.817	3.594	11.1	19.0
8764	Gallinago		1 30.7	235.°21	0.°5/30.4	18
12 23	9 19.38	+17 20.8	1.916	2.691	15.3	19.8
1 2	9 15.04	+17 39.2	1.816	2.680	12.2	19.6
1 12	9 8.01	+18 7.4	1.737	2.669	8.3	19.3
1 22	8 58.80	+18 41.8	1.684	2.658	4.0	19.0
2 1	8 48.29	+19 17.5	1.661	2.645	0.9	18.8
2 11	8 37.74	+19 49.2	1.666	2.633	5.5	19.1
2 21	8 28.35	+20 13.3	1.700	2.619	9.9	19.3
3 2	8 21.15	+20 27.6	1.759	2.606	13.8	19.5
56979	2000 SB_{175}		1 30.7	243.°92	3.°2/28.6	18
12 23	9 18.19	+27 36.0	2.533	3.311	11.9	19.3
1 2	9 13.36	+27 57.0	2.442	3.308	9.4	19.2
1 12	9 6.41	+28 18.3	2.376	3.306	6.6	19.0
1 22	8 57.84	+28 35.6	2.338	3.303	3.9	18.8
2 1	8 48.46	+28 44.8	2.329	3.301	3.4	18.8
2 11	8 39.21	+28 43.1	2.351	3.298	5.7	18.9
2 21	8 31.01	+28 29.4	2.401	3.295	8.6	19.1
3 2	8 24.59	+28 4.6	2.476	3.293	11.3	19.3
399565	2003 SZ_{128}		1 30.7	135.°35	0.°5/30.4	18
12 23	9 21.83	+18 3.8	1.876	2.649	15.7	21.6
1 2	9 16.72	+18 13.2	1.795	2.659	12.3	21.4
1 12	9 8.93	+18 30.6	1.737	2.669	8.4	21.2
1 22	8 59.11	+18 52.2	1.705	2.678	4.0	21.0
2 1	8 48.27	+19 13.6	1.702	2.687	0.9	20.7
2 11	8 37.66	+19 30.5	1.729	2.695	5.3	21.1
2 21	8 28.45	+19 40.3	1.784	2.703	9.5	21.3
3 2	8 21.53	+19 41.8	1.864	2.710	13.2	21.6
417845	2007 HT_{32}		1 30.7	351.°04	6.°3/27.3	18
12 23	9 18.78	+31 12.5	1.658	2.463	16.1	20.6
1 2	9 15.17	+32 6.1	1.582	2.460	12.9	20.4
1 12	9 8.35	+32 59.6	1.527	2.456	9.5	20.2
1 22	8 58.99	+33 44.4	1.496	2.454	6.8	20.0
2 1	8 48.28	+34 12.1	1.492	2.452	6.7	20.0
2 11	8 37.79	+34 17.4	1.515	2.450	9.3	20.2
2 21	8 28.99	+33 59.5	1.562	2.450	12.8	20.4
3 2	8 22.97	+33 21.3	1.631	2.449	16.1	20.6
164503	2006 GY_{38}		1 30.7	291.°00	4.°2/ 2.0	18
12 23	9 15.46	+ 6 22.3	1.572	2.335	18.6	20.6
1 2	9 12.35	+ 6 10.8	1.482	2.331	15.3	20.3
1 12	9 6.37	+ 6 19.0	1.411	2.326	11.4	20.1
1 22	8 58.07	+ 6 47.1	1.363	2.322	7.1	19.8
2 1	8 48.41	+ 7 32.7	1.341	2.317	4.2	19.6
2 11	8 38.73	+ 8 30.3	1.346	2.313	6.4	19.8
2 21	8 30.37	+ 9 33.0	1.377	2.308	10.7	20.0
3 2	8 24.40	+10 34.1	1.432	2.304	14.9	20.2
113288	2002 RP_{171}		1 30.7	53.°76	2.°9/29.0	18
12 23	9 17.40	+21 21.8	1.563	2.364	17.1	19.6
1 2	9 13.89	+22 14.4	1.493	2.373	13.3	19.4
1 12	9 7.36	+23 16.2	1.444	2.383	9.0	19.2
1 22	8 58.47	+24 20.3	1.420	2.392	4.6	19.0
2 1	8 48.37	+25 18.2	1.423	2.402	3.3	18.9
2 11	8 38.52	+26 3.1	1.454	2.413	7.1	19.1
2 21	8 30.26	+26 31.2	1.510	2.423	11.4	19.4
3 2	8 24.62	+26 41.9	1.590	2.434	15.2	19.7
287792	2003 SO_{143}		1 30.7	151.°78	1.°3/29.9	18
12 23	9 21.41	+19 45.1	1.948	2.723	15.1	21.6
1 2	9 16.37	+20 5.6	1.865	2.731	11.9	21.4
1 12	9 8.70	+20 33.1	1.804	2.737	8.0	21.1
1 22	8 59.02	+21 3.4	1.771	2.743	3.8	20.9
2 1	8 48.30	+21 31.2	1.766	2.749	1.6	20.7
2 11	8 37.76	+21 52.3	1.791	2.754	5.5	21.0
2 21	8 28.56	+22 3.8	1.844	2.759	9.6	21.3
3 2	8 21.59	+22 5.1	1.923	2.763	13.1	21.5

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
309221	2007 PO_{20}		1 30.7	157.°95	0.°6/31.1	18
	h m	° ′			°	m
12 23	9 19.66	+13 26.0	2.101	2.858	14.7	22.1
1 2	9 14.77	+13 49.8	2.013	2.866	11.7	21.9
1 12	9 7.52	+14 25.5	1.948	2.874	8.0	21.7
1 22	8 58.44	+15 9.7	1.910	2.881	4.0	21.5
2 1	8 48.39	+15 58.2	1.902	2.887	0.7	21.2
2 11	8 38.44	+16 45.9	1.925	2.892	4.7	21.5
2 21	8 29.63	+17 28.5	1.976	2.897	8.7	21.8
3 2	8 22.78	+18 3.3	2.054	2.901	12.1	22.0
205326	2000 UG_{41}		1 30.7	78.°13	4.°0/ 1.8	18
12 23	9 18.88	+ 7 17.4	1.561	2.321	18.9	19.9
1 2	9 14.72	+ 6 59.1	1.491	2.339	15.3	19.7
1 12	9 7.73	+ 6 59.2	1.441	2.356	11.2	19.4
1 22	8 58.58	+ 7 17.0	1.414	2.373	6.8	19.2
2 1	8 48.38	+ 7 49.6	1.414	2.391	4.0	19.1
2 11	8 38.48	+ 8 31.8	1.442	2.408	6.1	19.3
2 21	8 30.12	+ 9 17.8	1.496	2.425	10.2	19.6
3 2	8 24.22	+10 2.2	1.574	2.442	14.0	19.8
110865	2001 UL_{89}		1 30.7	112.°99	2.°5/ 1.6	18
12 23	9 14.97	+ 6 58.7	2.003	2.750	15.7	19.9
1 2	9 11.18	+ 7 26.0	1.918	2.761	12.7	19.7
1 12	9 5.11	+ 8 10.9	1.856	2.771	9.1	19.5
1 22	8 57.30	+ 9 11.3	1.819	2.781	5.3	19.3
2 1	8 48.56	+10 23.0	1.810	2.790	2.5	19.1
2 11	8 39.93	+11 40.0	1.831	2.800	4.8	19.3
2 21	8 32.37	+12 56.1	1.881	2.809	8.5	19.5
3 2	8 26.70	+14 5.9	1.958	2.818	12.0	19.7
295433	2008 KW_{38}		1 30.7	195.°41	1.°2/29.8	16
12 23	9 17.11	+18 54.0	2.412	3.181	12.7	22.4
1 2	9 12.62	+19 30.3	2.316	3.179	10.0	22.2
1 12	9 6.00	+20 14.0	2.244	3.176	6.7	22.0
1 22	8 57.71	+21 1.3	2.199	3.172	3.2	21.7
2 1	8 48.51	+21 47.7	2.185	3.168	1.5	21.6
2 11	8 39.32	+22 28.5	2.202	3.164	4.8	21.8
2 21	8 31.06	+23 0.6	2.248	3.159	8.3	22.0
3 2	8 24.51	+23 22.4	2.320	3.153	11.4	22.2
116512	2004 BN_{38}		1 30.7	337.°98	1.°1/29.8	18
12 23	9 10.99	+19 55.3	2.640	3.419	11.5	20.0
1 2	9 7.67	+20 19.4	2.543	3.411	9.0	19.8
1 12	9 2.54	+20 49.2	2.470	3.404	6.1	19.6
1 22	8 56.03	+21 21.5	2.424	3.397	2.9	19.4
2 1	8 48.76	+21 52.8	2.407	3.390	1.4	19.2
2 11	8 41.52	+22 19.6	2.421	3.384	4.3	19.5
2 21	8 35.07	+22 39.4	2.463	3.378	7.5	19.6
3 2	8 30.07	+22 50.9	2.532	3.372	10.3	19.8
55050	2001 QU_{67}		1 30.7	257.°05	0.°8/31.1	18
12 23	9 19.89	+15 1.0	1.544	2.328	18.0	19.8
1 2	9 16.04	+14 57.3	1.451	2.319	14.5	19.5
1 12	9 9.02	+15 5.8	1.378	2.310	10.1	19.3
1 22	8 59.39	+15 24.1	1.329	2.301	5.0	18.9
2 1	8 48.24	+15 47.7	1.307	2.292	1.0	18.6
2 11	8 37.06	+16 11.4	1.313	2.282	6.1	19.0
2 21	8 27.35	+16 30.9	1.345	2.273	11.2	19.2
3 2	8 20.31	+16 43.4	1.400	2.263	15.7	19.5
163382	2002 PZ_{116}		1 30.7	109.°96	1.°5/29.8	18
12 23	9 19.09	+21 53.8	2.376	3.148	12.8	20.4
1 2	9 14.00	+22 3.9	2.296	3.160	10.0	20.2
1 12	9 6.78	+22 17.5	2.239	3.171	6.7	20.1
1 22	8 58.01	+22 31.2	2.210	3.182	3.3	19.9
2 1	8 48.48	+22 41.4	2.211	3.193	1.7	19.8
2 11	8 39.18	+22 45.1	2.243	3.204	4.8	20.0
2 21	8 30.99	+22 41.1	2.304	3.215	8.1	20.2
3 2	8 24.62	+22 29.1	2.391	3.225	11.1	20.4
104714	2000 GT_{171}		1 30.7	219.°58	3.°2/27.9	18
12 23	9 15.33	+24 41.4	2.470	3.252	12.1	19.4
1 2	9 11.33	+25 45.4	2.378	3.247	9.5	19.2
1 12	9 5.19	+26 54.4	2.310	3.242	6.6	19.0
1 22	8 57.36	+28 2.9	2.270	3.236	3.9	18.8
2 1	8 48.56	+29 5.0	2.260	3.230	3.6	18.8
2 11	8 39.75	+29 55.7	2.280	3.224	6.1	18.9
2 21	8 31.85	+30 31.9	2.328	3.218	9.0	19.1
3 2	8 25.65	+30 52.8	2.402	3.211	11.8	19.3
196905	2003 TH_{17}		1 30.7	147.°62	0.°8/31.3	18 R
12 23	9 14.84	+13 15.3	2.266	3.027	13.6	20.8
1 2	9 10.87	+13 31.5	2.175	3.031	10.8	20.6
1 12	9 4.80	+13 58.5	2.108	3.034	7.5	20.4
1 22	8 57.14	+14 33.7	2.067	3.037	3.8	20.1
2 1	8 48.61	+15 13.6	2.055	3.040	0.9	19.9
2 11	8 40.17	+15 54.0	2.074	3.042	4.3	20.2
2 21	8 32.68	+16 31.1	2.121	3.045	8.0	20.4
3 2	8 26.91	+17 2.2	2.195	3.047	11.2	20.6

458866 2011 UZ_{122} 1 30.7 153.°97 0.°4/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.39	+14 20.0	1.978	2.741	15.3	23.1
1 2	9 15.50	+14 42.8	1.893	2.750	12.1	22.9
1 12	9 8.09	+15 17.2	1.831	2.758	8.3	22.7
1 22	8 58.75	+15 59.9	1.794	2.766	4.1	22.4
2 1	8 48.38	+16 46.0	1.788	2.773	0.6	22.2
2 11	8 38.14	+17 30.4	1.811	2.779	5.0	22.5
2 21	8 29.13	+18 8.8	1.863	2.784	9.1	22.8
3 2	8 22.23	+18 38.7	1.941	2.788	12.7	23.0

243092 2007 QY_{12} 1 30.7 111.°34 4.°2/ 2.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.22	+ 5 1.2	1.620	2.376	18.5	20.7
1 2	9 12.02	+ 5 3.7	1.534	2.377	15.2	20.4
1 12	9 6.06	+ 5 27.8	1.466	2.378	11.3	20.2
1 22	8 57.90	+ 6 13.3	1.422	2.380	7.1	20.0
2 1	8 48.49	+ 7 16.8	1.405	2.381	4.2	19.8
2 11	8 39.13	+ 8 32.0	1.415	2.382	6.1	19.9
2 21	8 31.05	+ 9 51.0	1.452	2.383	10.2	20.2
3 2	8 25.29	+11 6.7	1.513	2.384	14.3	20.4

197777 2004 PW_{45} 1 30.7 93.°77 2.°6/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 23.75	+22 35.3	1.514	2.307	17.9	20.5
1 2	9 18.89	+22 55.7	1.444	2.319	14.0	20.3
1 12	9 10.75	+23 22.0	1.395	2.331	9.5	20.1
1 22	9 0.08	+23 48.1	1.371	2.343	4.8	19.8
2 1	8 48.19	+24 7.3	1.374	2.355	2.9	19.7
2 11	8 36.72	+24 14.6	1.405	2.366	7.0	20.0
2 21	8 27.11	+24 8.4	1.462	2.378	11.5	20.3
3 2	8 20.39	+23 49.6	1.543	2.389	15.4	20.6

402640 2006 TF_{118} 1 30.7 119.°65 2.°7/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.44	+21 4.6	1.978	2.761	14.6	21.4
1 2	9 14.08	+22 13.4	1.904	2.775	11.4	21.2
1 12	9 7.18	+23 30.6	1.853	2.788	7.7	21.0
1 22	8 58.33	+24 49.5	1.829	2.800	4.0	20.8
2 1	8 48.45	+26 2.8	1.835	2.813	3.1	20.8
2 11	8 38.72	+27 3.9	1.871	2.824	6.3	21.0
2 21	8 30.26	+27 49.2	1.934	2.836	9.9	21.2
3 2	8 23.95	+28 17.5	2.022	2.847	13.2	21.5

341503 2007 TO_{405} 1 30.7 125.°64 4.°7/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.69	+30 57.5	2.476	3.258	12.0	21.3
1 2	9 13.13	+31 51.2	2.399	3.264	9.6	21.1
1 12	9 6.33	+32 44.4	2.346	3.270	7.0	20.9
1 22	8 57.86	+33 31.1	2.321	3.276	5.0	20.8
2 1	8 48.52	+34 5.9	2.326	3.281	5.0	20.8
2 11	8 39.34	+34 25.2	2.359	3.287	6.9	21.0
2 21	8 31.27	+34 27.8	2.420	3.292	9.5	21.1
3 2	8 25.06	+34 14.9	2.505	3.297	11.9	21.3

81192 2000 EX_{195} 1 30.7 232.°62 0.°3/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.48	+15 17.6	1.994	2.765	15.0	20.6
1 2	9 13.38	+15 31.5	1.896	2.758	11.9	20.4
1 12	9 6.78	+15 56.1	1.820	2.750	8.2	20.2
1 22	8 58.19	+16 28.5	1.770	2.742	4.0	19.9
2 1	8 48.46	+17 4.3	1.749	2.734	0.6	19.6
2 11	8 38.72	+17 39.0	1.757	2.725	5.0	19.9
2 21	8 30.08	+18 8.6	1.794	2.716	9.2	20.2
3 2	8 23.46	+18 30.4	1.855	2.707	13.0	20.4

287616 2003 HG_4 1 30.7 276.°15 4.°4/ 1.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.51	+ 6 43.1	1.563	2.326	18.7	20.7
1 2	9 13.26	+ 6 20.4	1.469	2.317	15.5	20.4
1 12	9 7.08	+ 6 16.2	1.394	2.308	11.5	20.1
1 22	8 58.47	+ 6 31.0	1.341	2.300	7.3	19.9
2 1	8 48.41	+ 7 3.2	1.315	2.291	4.5	19.7
2 11	8 38.28	+ 7 48.4	1.315	2.282	6.6	19.8
2 21	8 29.44	+ 8 40.3	1.342	2.273	11.0	20.0
3 2	8 23.06	+ 9 32.5	1.392	2.264	15.2	20.2

334234 2001 TT_{83} 1 30.7 66.°85 1.°3/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.40	+12 34.6	2.216	2.976	14.0	21.0
1 2	9 11.17	+12 35.7	2.141	2.995	11.1	20.8
1 12	9 4.90	+12 47.1	2.089	3.013	7.7	20.6
1 22	8 57.13	+13 6.8	2.064	3.032	4.0	20.4
2 1	8 48.65	+13 31.7	2.068	3.051	1.3	20.3
2 11	8 40.39	+13 58.3	2.102	3.070	4.2	20.5
2 21	8 33.20	+14 23.5	2.164	3.089	7.7	20.8
3 2	8 27.75	+14 44.8	2.252	3.108	10.8	21.0

142535 2002 TD_{49} 1 30.7 153.°73 7.°4/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 25.37	+37 14.1	2.136	2.913	13.9	20.7
1 2	9 19.75	+38 28.6	2.067	2.921	11.4	20.5
1 12	9 11.15	+39 38.4	2.022	2.927	9.0	20.4
1 22	9 0.25	+40 34.8	2.002	2.934	7.5	20.3
2 1	8 48.19	+41 10.1	2.011	2.939	7.8	20.3
2 11	8 36.39	+41 20.2	2.048	2.945	9.6	20.4
2 21	8 26.18	+41 5.5	2.110	2.949	12.0	20.6
3 2	8 18.56	+40 29.5	2.194	2.953	14.4	20.8

284193 2006 BK_{13} 1 30.7 27.°22 2.°2/ 1.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.31	+ 8 29.8	1.693	2.464	17.2	20.2
1 2	9 9.56	+ 8 55.3	1.613	2.470	13.8	20.0
1 12	9 4.27	+ 9 40.1	1.553	2.477	9.9	19.8
1 22	8 57.00	+10 41.6	1.518	2.484	5.5	19.5
2 1	8 48.66	+11 54.8	1.509	2.492	2.2	19.3
2 11	8 40.44	+13 12.7	1.529	2.500	5.2	19.5
2 21	8 33.46	+14 28.0	1.576	2.508	9.5	19.8
3 2	8 28.61	+15 35.2	1.648	2.517	13.4	20.1

41565 2000 RJ_{72} 1 30.7 125.°37 1.°5/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 23.90	+18 44.6	1.510	2.297	18.3	19.5
1 2	9 19.01	+19 17.7	1.439	2.310	14.3	19.3
1 12	9 10.86	+20 1.8	1.388	2.324	9.7	19.1
1 22	9 0.17	+20 50.7	1.363	2.336	4.6	18.8
2 1	8 48.20	+21 37.0	1.365	2.348	1.9	18.7
2 11	8 36.56	+22 14.0	1.395	2.360	6.6	19.0
2 21	8 26.70	+22 37.9	1.453	2.370	11.4	19.3
3 2	8 19.71	+22 47.9	1.533	2.381	15.5	19.6

317969 2003 YG_{67} 1 30.7 109.°46 0.°7/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.03	+17 4.9	1.864	2.639	15.7	21.4
1 2	9 15.29	+17 37.8	1.791	2.656	12.3	21.2
1 12	9 7.96	+18 20.8	1.741	2.674	8.3	21.0
1 22	8 58.68	+19 9.3	1.717	2.691	3.9	20.8
2 1	8 48.43	+19 57.5	1.723	2.707	1.1	20.6
2 11	8 38.45	+20 39.9	1.758	2.723	5.4	20.9
2 21	8 29.85	+21 12.9	1.821	2.738	9.4	21.2
3 2	8 23.47	+21 34.6	1.909	2.753	13.0	21.5

468892 2013 XN_{14} 1 30.7 103.°82 3.°8/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.24	+26 48.2	2.390	3.174	12.4	21.4
1 2	9 12.00	+27 51.2	2.315	3.185	9.7	21.3
1 12	9 5.59	+28 56.7	2.266	3.196	6.8	21.1
1 22	8 57.52	+29 59.0	2.244	3.207	4.3	21.0
2 1	8 48.61	+30 52.1	2.251	3.218	4.1	21.0
2 11	8 39.83	+31 31.5	2.289	3.228	6.4	21.1
2 21	8 32.12	+31 55.3	2.354	3.238	9.2	21.3
3 2	8 26.22	+32 3.5	2.444	3.248	11.8	21.5

371968 2008 FM_{126} 1 30.7 191.°93 1.°0/31.5 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.23	+12 4.1	2.606	3.352	12.5	22.7
1 2	9 11.71	+12 24.4	2.505	3.350	9.9	22.6
1 12	9 5.28	+12 55.2	2.427	3.348	6.9	22.4
1 22	8 57.37	+13 34.2	2.376	3.345	3.6	22.1
2 1	8 48.63	+14 18.3	2.357	3.341	1.0	21.9
2 11	8 39.89	+15 3.7	2.368	3.336	3.9	22.2
2 21	8 31.96	+15 46.7	2.410	3.331	7.3	22.4
3 2	8 25.53	+16 24.6	2.479	3.325	10.3	22.5

282997 2007 TR_{316} 1 30.7 112.°88 1.°5/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.49	+20 35.3	2.551	3.324	12.0	21.3
1 2	9 11.13	+21 11.4	2.472	3.337	9.3	21.1
1 12	9 4.83	+21 52.8	2.417	3.350	6.3	20.9
1 22	8 57.11	+22 35.6	2.390	3.362	3.1	20.7
2 1	8 48.68	+23 15.6	2.393	3.374	1.8	20.7
2 11	8 40.38	+23 49.1	2.427	3.386	4.6	20.9
2 21	8 33.03	+24 13.6	2.490	3.398	7.7	21.1
3 2	8 27.28	+24 28.1	2.579	3.409	10.5	21.3

330402 2007 BT_{13} 1 30.7 274.°91 1.°4/30.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.31	+21 15.9	1.927	2.708	15.0	20.6
1 2	9 15.77	+21 17.9	1.827	2.696	11.9	20.4
1 12	9 8.51	+21 24.8	1.750	2.684	8.1	20.1
1 22	8 59.06	+21 32.8	1.699	2.672	4.0	19.8
2 1	8 48.37	+21 37.6	1.676	2.660	1.7	19.7
2 11	8 37.72	+21 35.4	1.683	2.647	5.7	19.9
2 21	8 28.31	+21 24.6	1.718	2.635	10.0	20.1
3 2	8 21.17	+21 4.8	1.777	2.623	13.8	20.3

128805 2004 RK_{250} 1 30.7 148.°19 1.°2/30.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.09	+19 2.5	1.916	2.690	15.4	21.5
1 2	9 16.95	+19 30.2	1.835	2.700	12.1	21.3
1 12	9 9.14	+20 6.2	1.777	2.709	8.2	21.1
1 22	8 59.28	+20 45.7	1.745	2.718	3.9	20.8
2 1	8 48.35	+21 23.1	1.742	2.726	1.6	20.7
2 11	8 37.63	+21 53.5	1.770	2.733	5.6	21.0
2 21	8 28.27	+22 13.8	1.825	2.739	9.7	21.2
3 2	8 21.18	+22 23.0	1.906	2.745	13.2	21.5

109892 2001 SZ_{10} 1 30.7 198.°53 5.°6/ 4.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.89	− 1 42.4	2.408	3.107	14.5	19.9
1 2	9 8.45	− 1 58.6	2.311	3.107	12.4	19.7
1 12	9 3.13	− 1 57.2	2.234	3.107	9.9	19.5
1 22	8 56.35	− 1 36.9	2.181	3.106	7.4	19.4
2 1	8 48.78	− 0 58.6	2.155	3.106	5.8	19.3
2 11	8 41.22	− 0 5.0	2.158	3.105	6.1	19.3
2 21	8 34.47	+ 0 59.2	2.190	3.105	8.2	19.4
3 2	8 29.21	+ 2 8.7	2.247	3.105	10.8	19.6

23795 1998 QW_{32} 1 30.7 118.°15 2.°8/ 1.9 18 R

2019/20	α_{2000} h m	δ_{2000} ° ′	Δ	r	β °	V m
12 23	9 13.55	+ 6 7.9	2.245	2.984	14.4	19.0
1 2	9 9.84	+ 6 25.4	2.156	2.991	11.7	18.9
1 12	9 4.11	+ 6 58.9	2.089	2.999	8.6	18.7
1 22	8 56.83	+ 7 46.9	2.048	3.006	5.2	18.5
2 1	8 48.72	+ 8 46.2	2.035	3.013	2.9	18.3
2 11	8 40.68	+ 9 52.0	2.053	3.020	4.6	18.5
2 21	8 33.57	+10 59.2	2.100	3.026	7.8	18.7
3 2	8 28.12	+12 3.0	2.173	3.033	11.0	18.9

243226 2007 VH_{72} 1 30.7 139.°12 7.°8/22.2 18

12 23	9 22.81	+45 30.3	2.941	3.694	11.0	21.2
1 2	9 17.33	+47 3.5	2.885	3.706	9.5	21.1
1 12	9 9.32	+48 28.3	2.854	3.717	8.3	21.0
1 22	8 59.35	+49 37.7	2.850	3.727	7.8	21.0
2 1	8 48.34	+50 25.8	2.873	3.737	8.3	21.0
2 11	8 37.44	+50 49.7	2.922	3.747	9.4	21.1
2 21	8 27.76	+50 49.8	2.996	3.756	10.8	21.2
3 2	8 20.19	+50 29.1	3.091	3.765	12.2	21.4

187306 2005 UG_4 1 30.7 143.°99 2.°7/ 1.6 18

12 23	9 16.09	+ 8 0.9	2.168	2.912	14.7	20.6
1 2	9 11.89	+ 8 2.4	2.079	2.919	11.9	20.4
1 12	9 5.53	+ 8 18.0	2.012	2.925	8.6	20.2
1 22	8 57.51	+ 8 46.4	1.971	2.931	5.1	20.0
2 1	8 48.62	+ 9 25.0	1.959	2.937	2.7	19.9
2 11	8 39.82	+10 9.7	1.976	2.943	4.7	20.0
2 21	8 32.02	+10 56.1	2.022	2.948	8.2	20.2
3 2	8 26.01	+11 40.2	2.095	2.953	11.5	20.5

30232 2000 GV_{153} 1 30.7 132.°57 3.°6/ 1.6 18

12 23	9 20.47	+ 8 1.8	1.705	2.458	17.8	19.3
1 2	9 15.87	+ 7 43.3	1.624	2.468	14.5	19.1
1 12	9 8.52	+ 7 40.9	1.563	2.477	10.6	18.9
1 22	8 59.02	+ 7 54.1	1.527	2.487	6.4	18.7
2 1	8 48.40	+ 8 20.5	1.518	2.495	3.6	18.5
2 11	8 37.95	+ 8 55.7	1.537	2.503	5.9	18.7
2 21	8 28.91	+ 9 34.5	1.584	2.511	9.9	18.9
3 2	8 22.21	+10 12.4	1.656	2.518	13.7	19.2

130450 2000 QP_{50} 1 30.7 94.°65 0.°4/30.9 18

12 23	9 19.36	+13 37.7	1.625	2.402	17.6	20.2
1 2	9 15.11	+14 7.2	1.555	2.420	13.9	20.0
1 12	9 8.02	+14 51.4	1.506	2.437	9.5	19.8
1 22	8 58.77	+15 46.0	1.482	2.454	4.6	19.5
2 1	8 48.44	+16 44.9	1.486	2.471	0.7	19.2
2 11	8 38.40	+17 41.1	1.519	2.488	5.5	19.6
2 21	8 29.89	+18 29.5	1.579	2.504	10.1	19.9
3 2	8 23.82	+19 6.8	1.663	2.520	14.0	20.2

337367 2001 PD_{43} 1 30.7 167.°06 1.°0/29.7 17

12 23	9 14.36	+18 50.3	3.169	3.929	10.2	22.2
1 2	9 9.92	+19 33.9	3.076	3.934	7.9	22.1
1 12	9 3.88	+20 23.3	3.009	3.939	5.3	21.9
1 22	8 56.65	+21 15.3	2.971	3.943	2.5	21.7
2 1	8 48.77	+22 6.1	2.964	3.947	1.2	21.6
2 11	8 40.93	+22 52.4	2.990	3.950	3.8	21.8
2 21	8 33.77	+23 31.6	3.046	3.952	6.5	22.0
3 2	8 27.86	+24 2.1	3.129	3.954	9.0	22.2

401893 2001 SR_{27} 1 30.7 48.°56 6.°4/ 4.4 18

12 23	9 14.22	− 1 16.3	1.526	2.262	20.2	20.7
1 2	9 11.07	− 1 17.9	1.465	2.287	16.9	20.5
1 12	9 5.24	− 0 51.9	1.422	2.313	13.2	20.4
1 22	8 57.42	+ 0 1.9	1.400	2.339	9.3	20.2
2 1	8 48.67	+ 1 19.9	1.404	2.366	6.6	20.1
2 11	8 40.25	+ 2 54.6	1.435	2.393	7.2	20.2
2 21	8 33.29	+ 4 36.4	1.492	2.421	10.2	20.4
3 2	8 28.64	+ 6 16.5	1.573	2.448	13.6	20.7

456054 2006 AA_{24} 1 30.7 294.°69 0.°4/30.4 18

12 23	9 13.55	+14 49.9	1.982	2.760	14.8	20.6
1 2	9 10.36	+15 37.7	1.887	2.754	11.7	20.4
1 12	9 4.79	+16 39.1	1.815	2.748	8.0	20.2
1 22	8 57.30	+17 50.2	1.768	2.742	3.8	19.9
2 1	8 48.71	+19 5.1	1.751	2.736	0.8	19.6
2 11	8 40.08	+20 16.9	1.763	2.730	5.2	19.9
2 21	8 32.48	+21 20.2	1.803	2.724	9.3	20.2
3 2	8 26.81	+22 11.2	1.869	2.719	13.0	20.4

162425 2000 EF_{136} 1 30.7 119.°26 1.°9/29.4 18

12 23	9 16.22	+21 40.4	2.242	3.022	13.2	20.4
1 2	9 12.09	+22 9.8	2.155	3.024	10.3	20.2
1 12	9 5.72	+22 44.6	2.092	3.026	7.0	20.0
1 22	8 57.65	+23 20.5	2.056	3.028	3.5	19.8
2 1	8 48.68	+23 52.9	2.049	3.030	2.2	19.7
2 11	8 39.83	+24 17.5	2.073	3.032	5.3	19.9
2 21	8 32.04	+24 32.0	2.124	3.034	8.7	20.1
3 2	8 26.09	+24 35.6	2.200	3.036	11.9	20.3

488827 2005 NY_{79} 1 30.7 195.°89 4.°0/27.4 18

12 23	9 19.67	+26 52.1	2.413	3.190	12.5	22.2
1 2	9 14.86	+28 2.4	2.322	3.187	9.8	22.0
1 12	9 7.69	+29 16.5	2.256	3.184	7.0	21.8
1 22	8 58.65	+30 28.1	2.218	3.179	4.5	21.6
2 1	8 48.54	+31 30.5	2.210	3.174	4.4	21.6
2 11	8 38.40	+32 18.4	2.233	3.169	6.7	21.8
2 21	8 29.28	+32 49.2	2.284	3.162	9.7	21.9
3 2	8 22.04	+33 2.8	2.359	3.155	12.4	22.1

109140 2001 QK_{55} 1 30.7 64.°70 6.°1/28.1 18

12 23	9 26.78	+32 44.9	1.678	2.469	16.5	19.4
1 2	9 21.12	+33 16.1	1.615	2.483	13.2	19.2
1 12	9 12.14	+33 43.3	1.573	2.498	9.7	19.0
1 22	9 0.73	+33 58.4	1.557	2.513	6.8	18.9
2 1	8 48.27	+33 54.7	1.568	2.528	6.4	18.9
2 11	8 36.41	+33 29.2	1.606	2.543	8.8	19.1
2 21	8 26.57	+32 43.7	1.671	2.558	12.1	19.3
3 2	8 19.69	+31 42.6	1.758	2.573	15.3	19.5

955 Alstede 1 30.7 233.°31 3.°4/28.5 18 A

12 23	9 21.89	+26 45.4	2.425	3.197	12.6	16.0
1 2	9 16.60	+27 20.4	2.319	3.182	10.0	15.8
1 12	9 8.88	+27 57.6	2.238	3.166	7.0	15.6
1 22	8 59.23	+28 31.8	2.184	3.149	4.2	15.4
2 1	8 48.46	+28 57.7	2.161	3.132	3.6	15.3
2 11	8 37.65	+29 11.2	2.168	3.114	6.2	15.4
2 21	8 27.87	+29 10.5	2.204	3.095	9.4	15.6
3 2	8 20.01	+28 56.0	2.265	3.075	12.4	15.8

380688 2005 JA_{13} 1 30.7 298.°08 5.°3/26.9 18

12 23	9 17.65	+31 18.1	2.229	3.018	13.0	21.2
1 2	9 13.49	+32 16.3	2.147	3.015	10.4	21.0
1 12	9 6.84	+33 14.2	2.088	3.013	7.7	20.8
1 22	8 58.25	+34 5.4	2.056	3.010	5.6	20.7
2 1	8 48.62	+34 43.4	2.053	3.008	5.6	20.7
2 11	8 39.09	+35 3.6	2.078	3.005	7.8	20.8
2 21	8 30.76	+35 4.9	2.130	3.003	10.5	21.0
3 2	8 24.51	+34 48.4	2.205	3.000	13.2	21.2

39341 2002 AM_{50} 1 30.7 338.°49 0.°7/31.1 18

12 23	9 13.96	+14 48.5	1.589	2.382	17.2	19.5
1 2	9 11.26	+14 50.7	1.499	2.372	13.8	19.2
1 12	9 5.70	+15 5.5	1.429	2.364	9.5	19.0
1 22	8 57.85	+15 30.4	1.383	2.356	4.8	18.7
2 1	8 48.67	+16 1.2	1.364	2.349	0.9	18.4
2 11	8 39.51	+16 32.3	1.372	2.342	5.7	18.7
2 21	8 31.68	+16 59.2	1.405	2.337	10.5	18.9
3 2	8 26.24	+17 18.7	1.462	2.332	14.8	19.2

429015 2009 BQ_{109} 1 30.7 293.°08 0.°3/30.9 18

12 23	9 12.21	+13 22.1	2.372	3.137	13.0	21.0
1 2	9 8.85	+14 0.5	2.275	3.134	10.3	20.8
1 12	9 3.50	+14 50.6	2.202	3.130	7.1	20.6
1 22	8 56.61	+15 49.5	2.156	3.127	3.5	20.4
2 1	8 48.86	+16 52.9	2.139	3.124	0.5	20.1
2 11	8 41.11	+17 55.6	2.153	3.121	4.2	20.4
2 21	8 34.20	+18 53.1	2.196	3.118	7.8	20.6
3 2	8 28.86	+19 42.3	2.265	3.115	11.0	20.8

203574 2002 CW_{185} 1 30.7 62.°95 2.°2/29.7 18

12 23	9 21.27	+20 25.3	1.373	2.175	19.0	20.4
1 2	9 17.15	+20 57.4	1.313	2.193	14.8	20.2
1 12	9 9.67	+21 38.8	1.273	2.212	10.0	20.0
1 22	8 59.65	+22 22.9	1.258	2.232	4.9	19.8
2 1	8 48.45	+23 1.9	1.269	2.251	2.6	19.7
2 11	8 37.74	+23 29.5	1.307	2.271	7.0	20.0
2 21	8 28.99	+23 42.6	1.370	2.290	11.7	20.3
3 2	8 23.19	+23 41.2	1.456	2.310	15.8	20.6

57485 2001 SN_{161} 1 30.7 64.°10 1.°5/29.9 18

12 23	9 18.55	+19 55.9	1.748	2.537	16.1	19.2
1 2	9 14.44	+20 16.9	1.672	2.545	12.6	19.0
1 12	9 7.58	+20 45.7	1.618	2.554	8.5	18.8
1 22	8 58.62	+21 17.4	1.590	2.563	4.1	18.5
2 1	8 48.60	+21 46.7	1.589	2.572	1.8	18.4
2 11	8 38.81	+22 8.6	1.617	2.582	5.9	18.7
2 21	8 30.47	+22 20.2	1.672	2.591	10.1	18.9
3 2	8 24.49	+22 20.9	1.751	2.600	13.8	19.2

27129 1998 XN_1 1 30.7 147.°12 6.°6/25.1 18

12 23	9 19.28	+35 26.2	2.370	3.153	12.5	19.5
1 2	9 14.76	+36 52.2	2.299	3.157	10.2	19.4
1 12	9 7.72	+38 15.6	2.252	3.162	8.0	19.2
1 22	8 58.69	+39 28.9	2.232	3.166	6.6	19.1
2 1	8 48.58	+40 25.0	2.240	3.170	7.0	19.2
2 11	8 38.58	+40 59.2	2.277	3.174	8.8	19.3
2 21	8 29.78	+41 10.7	2.340	3.178	11.0	19.4
3 2	8 23.11	+41 1.4	2.425	3.181	13.2	19.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
403549 2010 *JJ*			1 30.7	220.°47	2.°5/29.1	18
	h m	° ′			°	m
12 23	9 19.69	+20 44.4	1.924	2.706	15.0	21.6
1 2	9 15.43	+21 41.0	1.828	2.698	11.9	21.4
1 12	9 8.42	+22 47.6	1.754	2.688	8.1	21.1
1 22	8 59.14	+23 58.1	1.707	2.679	4.1	20.9
2 1	8 48.51	+25 5.2	1.689	2.668	2.9	20.8
2 11	8 37.80	+26 1.8	1.701	2.657	6.5	21.0
2 21	8 28.26	+26 43.5	1.740	2.646	10.6	21.2
3 2	8 20.97	+27 8.6	1.804	2.634	14.3	21.4
107925 2001 FQ_{103}			1 30.8	249.°19	0.°7/31.2	18
12 23	9 16.75	+13 20.5	1.852	2.624	15.9	20.6
1 2	9 13.09	+13 41.4	1.752	2.613	12.7	20.4
1 12	9 6.80	+14 16.3	1.674	2.603	8.9	20.1
1 22	8 58.36	+15 2.4	1.621	2.592	4.4	19.8
2 1	8 48.64	+15 54.9	1.596	2.581	0.8	19.5
2 11	8 38.84	+16 47.9	1.601	2.570	5.3	19.8
2 21	8 30.16	+17 36.2	1.633	2.558	9.8	20.0
3 2	8 23.62	+18 15.9	1.690	2.546	13.8	20.3
409562 2005 UV_{114}			1 30.8	47.°49	0.°5/30.4	18
12 23	9 17.90	+14 16.8	1.449	2.239	18.7	20.4
1 2	9 14.07	+15 15.7	1.402	2.275	14.5	20.2
1 12	9 7.31	+16 30.1	1.375	2.311	9.7	20.0
1 22	8 58.44	+17 53.0	1.374	2.347	4.5	19.8
2 1	8 48.67	+19 15.8	1.399	2.384	1.0	19.7
2 11	8 39.43	+20 30.0	1.453	2.421	5.9	20.1
2 21	8 31.93	+21 30.1	1.533	2.457	10.4	20.4
3 2	8 26.99	+22 13.9	1.637	2.494	14.2	20.8
200083 5037 $T\text{-}_3$			1 30.8	56.°79	0.°5/31.1	18
12 23	9 14.36	+12 39.6	1.914	2.687	15.4	20.1
1 2	9 10.79	+13 19.6	1.845	2.707	12.2	19.9
1 12	9 4.90	+14 13.5	1.797	2.727	8.3	19.7
1 22	8 57.29	+15 17.2	1.776	2.747	4.1	19.5
2 1	8 48.83	+16 25.1	1.783	2.768	0.6	19.3
2 11	8 40.58	+17 31.1	1.819	2.788	4.7	19.6
2 21	8 33.53	+18 30.0	1.884	2.809	8.7	19.9
3 2	8 28.45	+19 18.4	1.974	2.830	12.1	20.2
283745 2003 BL_8			1 30.8	305.°29	2.°3/ 1.1	17
12 23	9 16.25	+11 31.0	2.300	3.052	13.7	20.1
1 2	9 12.02	+11 1.8	2.198	3.044	11.1	19.9
1 12	9 5.66	+10 41.3	2.118	3.036	8.0	19.7
1 22	8 57.67	+10 29.0	2.065	3.028	4.6	19.5
2 1	8 48.77	+10 23.7	2.041	3.021	2.3	19.3
2 11	8 39.88	+10 23.4	2.047	3.013	4.6	19.4
2 21	8 31.92	+10 25.9	2.081	3.006	8.0	19.6
3 2	8 25.66	+10 28.9	2.142	2.999	11.3	19.8
459294 2012 GL_{14}			1 30.8	345.°14	7.°9/26.7	18
12 23	9 22.26	+35 2.0	1.622	2.423	16.6	20.7
1 2	9 18.20	+36 0.5	1.548	2.419	13.5	20.4
1 12	9 10.62	+36 55.5	1.495	2.416	10.4	20.3
1 22	9 0.24	+37 37.1	1.466	2.413	8.2	20.1
2 1	8 48.40	+37 56.1	1.463	2.410	8.3	20.1
2 11	8 36.85	+37 47.4	1.485	2.408	10.6	20.2
2 21	8 27.22	+37 11.8	1.532	2.406	13.8	20.4
3 2	8 20.66	+36 13.8	1.600	2.405	17.0	20.6
414881 2010 VY_{218}			1 30.8	63.°65	6.°9/ 3.9	18
12 23	9 16.79	− 0 7.9	1.722	2.447	18.6	20.8
1 2	9 12.86	− 0 52.7	1.653	2.466	15.7	20.6
1 12	9 6.39	− 1 16.2	1.602	2.486	12.4	20.4
1 22	8 58.03	− 1 16.4	1.573	2.505	9.1	20.3
2 1	8 48.73	− 0 53.9	1.571	2.525	7.1	20.2
2 11	8 39.68	− 0 12.2	1.595	2.545	7.6	20.3
2 21	8 31.96	+ 0 42.5	1.646	2.564	10.2	20.5
3 2	8 26.40	+ 1 43.4	1.721	2.584	13.3	20.7
354937 2006 EA_{17}			1 30.8	211.°89	3.°8/28.6	18
12 23	9 22.25	+25 27.6	1.829	2.616	15.5	21.6
1 2	9 17.58	+26 10.8	1.740	2.612	12.3	21.4
1 12	9 9.92	+26 58.6	1.674	2.607	8.5	21.2
1 22	8 59.86	+27 44.3	1.633	2.601	5.0	21.0
2 1	8 48.45	+28 20.6	1.622	2.595	4.2	20.9
2 11	8 37.12	+28 41.7	1.638	2.589	7.4	21.1
2 21	8 27.23	+28 45.4	1.682	2.582	11.3	21.3
3 2	8 19.85	+28 32.6	1.749	2.575	14.8	21.5
278622 2008 QC_{25}			1 30.8	199.°92	2.°9/28.6	17
12 23	9 19.33	+25 22.2	2.524	3.297	12.1	21.5
1 2	9 14.37	+25 58.7	2.429	3.294	9.5	21.3
1 12	9 7.24	+26 38.0	2.359	3.289	6.6	21.1
1 22	8 58.42	+27 15.4	2.317	3.285	3.8	21.0
2 1	8 48.69	+27 46.0	2.306	3.279	3.1	20.9
2 11	8 39.00	+28 6.1	2.325	3.273	5.6	21.1
2 21	8 30.31	+28 13.9	2.372	3.267	8.7	21.2
3 2	8 23.37	+28 9.2	2.446	3.260	11.5	21.4

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
416931 2005 SY_{86}			1 30.8	103.°15	6.°2/27.0	18
	h m	° ′			°	m
12 23	9 24.55	+33 48.0	2.016	2.798	14.4	21.5
1 2	9 18.99	+34 44.7	1.953	2.815	11.6	21.3
1 12	9 10.57	+35 38.0	1.913	2.831	8.7	21.2
1 22	9 0.01	+36 20.0	1.899	2.846	6.6	21.1
2 1	8 48.48	+36 44.0	1.914	2.862	6.6	21.1
2 11	8 37.34	+36 46.2	1.957	2.877	8.6	21.2
2 21	8 27.85	+36 27.2	2.026	2.892	11.3	21.4
3 2	8 20.88	+35 50.2	2.118	2.906	13.9	21.6
167634 2004 CQ_{111}			1 30.8	52.°47	4.°7/27.7	18
12 23	9 18.22	+29 38.5	2.111	2.901	13.6	20.1
1 2	9 13.89	+30 24.5	2.039	2.910	10.8	19.9
1 12	9 7.05	+31 10.5	1.991	2.920	7.7	19.8
1 22	8 58.34	+31 50.1	1.970	2.930	5.2	19.6
2 1	8 48.71	+32 17.5	1.977	2.940	5.0	19.6
2 11	8 39.34	+32 28.7	2.012	2.950	7.2	19.8
2 21	8 31.29	+32 23.0	2.075	2.960	10.2	20.0
3 2	8 25.37	+32 1.8	2.161	2.971	12.9	20.2
453801 2011 SP_{18}			1 30.8	10.°92	7.°0/ 3.1	17
12 23	9 12.33	+ 3 42.1	1.177	1.961	22.6	21.2
1 2	9 10.65	+ 2 54.4	1.106	1.963	18.9	20.9
1 12	9 5.64	+ 2 31.7	1.052	1.966	14.5	20.7
1 22	8 57.94	+ 2 36.9	1.018	1.970	10.0	20.5
2 1	8 48.76	+ 3 9.4	1.006	1.975	7.1	20.3
2 11	8 39.75	+ 4 3.6	1.018	1.982	8.4	20.4
2 21	8 32.46	+ 5 10.8	1.053	1.990	12.5	20.6
3 2	8 28.06	+ 6 21.2	1.109	1.999	16.8	20.9
70342 1999 RA_{175}			1 30.8	237.°86	0.°4/31.0	18
12 23	9 18.44	+14 7.3	2.001	2.766	15.1	20.3
1 2	9 14.29	+14 29.4	1.894	2.752	12.1	20.0
1 12	9 7.57	+15 4.1	1.810	2.738	8.4	19.8
1 22	8 58.75	+15 48.4	1.751	2.723	4.1	19.5
2 1	8 48.65	+16 37.9	1.722	2.707	0.6	19.2
2 11	8 38.41	+17 27.1	1.723	2.691	5.1	19.5
2 21	8 29.20	+18 11.2	1.752	2.674	9.5	19.7
3 2	8 22.01	+18 46.8	1.806	2.656	13.4	19.9
117788 2005 GU_{123}			1 30.8	187.°82	2.°7/27.9	18
12 23	9 15.07	+24 58.0	3.083	3.855	10.2	20.1
1 2	9 10.70	+25 58.8	2.990	3.854	7.9	20.0
1 12	9 4.58	+27 3.0	2.923	3.852	5.5	19.8
1 22	8 57.12	+28 6.3	2.885	3.850	3.3	19.7
2 1	8 48.90	+29 4.1	2.878	3.848	3.0	19.6
2 11	8 40.67	+29 52.5	2.903	3.845	5.0	19.8
2 21	8 33.16	+30 29.1	2.957	3.842	7.5	19.9
3 2	8 26.99	+30 53.1	3.038	3.838	9.8	20.1
255249 2005 UZ_{508}			1 30.8	110.°99	2.°2/ 1.6	17
12 23	9 12.24	+ 8 32.9	2.838	3.575	11.7	21.3
1 2	9 8.40	+ 8 30.8	2.746	3.581	9.5	21.2
1 12	9 2.95	+ 8 38.9	2.676	3.587	6.9	21.0
1 22	8 56.30	+ 8 56.2	2.634	3.593	4.1	20.9
2 1	8 49.03	+ 9 21.1	2.621	3.599	2.2	20.7
2 11	8 41.83	+ 9 50.7	2.639	3.605	3.7	20.8
2 21	8 35.35	+10 22.3	2.686	3.611	6.5	21.0
3 2	8 30.16	+10 53.0	2.761	3.616	9.1	21.2
179961 2002 XV_3			1 30.8	94.°69	1.°9/31.9	18
12 23	9 17.66	+11 17.5	1.815	2.580	16.4	20.3
1 2	9 13.57	+11 16.9	1.735	2.590	13.2	20.1
1 12	9 6.93	+11 29.9	1.676	2.599	9.3	19.9
1 22	8 58.34	+11 54.7	1.642	2.609	5.0	19.7
2 1	8 48.74	+12 27.7	1.636	2.618	1.9	19.5
2 11	8 39.31	+13 4.3	1.659	2.628	5.1	19.7
2 21	8 31.16	+13 39.8	1.709	2.637	9.2	20.0
3 2	8 25.17	+14 10.8	1.784	2.646	12.9	20.2
237538 2000 TP_{18}			1 30.8	120.°42	1.°6/29.8	18
12 23	9 22.85	+19 54.9	1.911	2.685	15.4	21.4
1 2	9 17.50	+20 27.9	1.839	2.704	12.0	21.2
1 12	9 9.50	+21 8.3	1.790	2.722	8.1	21.0
1 22	8 59.52	+21 50.9	1.767	2.740	3.9	20.8
2 1	8 48.58	+22 29.9	1.774	2.757	1.9	20.7
2 11	8 37.94	+23 0.4	1.811	2.773	5.7	21.0
2 21	8 28.73	+23 19.6	1.877	2.788	9.6	21.2
3 2	8 21.82	+23 27.0	1.967	2.803	13.0	21.5
323953 2005 UW_{47}			1 30.8	68.°67	6.°0/ 3.7	18
12 23	9 14.44	+ 0 27.2	1.899	2.623	17.2	20.4
1 2	9 10.96	+ 0 0.6	1.813	2.629	14.5	20.2
1 12	9 5.13	− 0 6.0	1.748	2.635	11.3	20.0
1 22	8 57.49	+ 0 8.6	1.705	2.641	8.2	19.8
2 1	8 48.86	+ 0 43.7	1.688	2.647	6.1	19.7
2 11	8 40.31	+ 1 35.6	1.700	2.653	6.8	19.8
2 21	8 32.86	+ 2 38.4	1.738	2.660	9.5	20.0
3 2	8 27.35	+ 3 45.7	1.801	2.666	12.7	20.2

304966 2007 TM_{126} 1 30.8 29.°77 5.°2/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.42	+26 43.2	1.439	2.249	17.8	20.5
1 2	9 16.01	+27 39.8	1.370	2.254	14.1	20.2
1 12	9 9.15	+28 40.9	1.321	2.258	9.9	20.0
1 22	8 59.57	+29 37.7	1.297	2.264	6.2	19.8
2 1	8 48.56	+30 20.7	1.299	2.270	5.6	19.8
2 11	8 37.86	+30 43.1	1.327	2.276	8.9	20.0
2 21	8 29.01	+30 43.1	1.379	2.282	13.0	20.3
3 2	8 23.17	+30 22.8	1.453	2.289	16.8	20.5

93351 2000 SX_{252} 1 30.8 6.°81 1.°8/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.93	+18 34.6	1.630	2.430	16.6	18.9
1 2	9 11.18	+19 21.7	1.550	2.430	13.0	18.6
1 12	9 5.62	+20 20.8	1.492	2.431	8.8	18.4
1 22	8 57.83	+21 26.1	1.458	2.432	4.2	18.1
2 1	8 48.81	+22 30.3	1.452	2.434	2.2	18.0
2 11	8 39.90	+23 26.1	1.473	2.437	6.4	18.3
2 21	8 32.35	+24 8.5	1.520	2.440	10.8	18.5
3 2	8 27.18	+24 35.1	1.591	2.444	14.7	18.8

471163 2010 HD_{57} 1 30.8 307.°00 3.°6/ 1.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.71	+ 9 7.9	2.286	3.027	14.1	20.7
1 2	9 13.24	+ 8 16.2	2.175	3.011	11.6	20.5
1 12	9 6.58	+ 7 32.9	2.087	2.996	8.6	20.3
1 22	8 58.18	+ 6 58.6	2.025	2.980	5.5	20.0
2 1	8 48.76	+ 6 33.6	1.992	2.965	3.6	19.9
2 11	8 39.30	+ 6 17.0	1.989	2.950	5.3	20.0
2 21	8 30.72	+ 6 7.1	2.015	2.936	8.5	20.1
3 2	8 23.85	+ 6 1.7	2.067	2.921	11.7	20.3

168721 2000 KB_{45} 1 30.8 189.°35 3.°9/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.06	+27 57.5	2.686	3.466	11.3	20.9
1 2	9 11.81	+29 4.8	2.599	3.465	8.9	20.8
1 12	9 5.51	+30 14.5	2.536	3.464	6.3	20.6
1 22	8 57.62	+31 21.0	2.503	3.462	4.3	20.5
2 1	8 48.85	+32 18.6	2.499	3.460	4.2	20.5
2 11	8 40.09	+33 3.1	2.526	3.458	6.3	20.6
2 21	8 32.21	+33 32.1	2.581	3.456	8.8	20.8
3 2	8 25.95	+33 45.4	2.661	3.453	11.3	20.9

381982 2010 GC_{136} 1 30.8 312.°66 2.°1/ 1.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.05	+ 9 44.3	2.056	2.818	14.8	20.9
1 2	9 9.13	+ 9 51.8	1.950	2.803	12.0	20.7
1 12	9 3.96	+10 13.7	1.866	2.788	8.6	20.5
1 22	8 56.99	+10 48.7	1.807	2.773	4.9	20.2
2 1	8 48.94	+11 33.8	1.777	2.758	2.1	20.0
2 11	8 40.80	+12 24.7	1.775	2.744	4.8	20.1
2 21	8 33.57	+13 16.2	1.801	2.730	8.7	20.4
3 2	8 28.13	+14 4.1	1.852	2.717	12.4	20.5

258139 2001 RM_{110} 1 30.8 183.°49 0.°5/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.08	+16 47.3	2.251	3.017	13.6	22.1
1 2	9 13.56	+17 14.7	2.157	3.017	10.7	21.9
1 12	9 6.78	+17 51.1	2.087	3.017	7.3	21.7
1 22	8 58.26	+18 33.0	2.044	3.017	3.5	21.5
2 1	8 48.78	+19 16.0	2.031	3.016	0.8	21.3
2 11	8 39.34	+19 55.3	2.048	3.014	4.7	21.6
2 21	8 30.91	+20 27.7	2.095	3.012	8.4	21.8
3 2	8 24.30	+20 51.0	2.167	3.009	11.8	22.0

503843 2017 KW_{35} 1 30.8 255.°65 1.°8/31.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.12	+11 23.8	1.876	2.638	16.1	21.9
1 2	9 14.24	+11 28.3	1.767	2.621	13.0	21.7
1 12	9 7.67	+11 46.9	1.679	2.602	9.3	21.4
1 22	8 58.87	+12 18.2	1.616	2.583	5.0	21.1
2 1	8 48.68	+12 58.7	1.581	2.564	1.8	20.9
2 11	8 38.29	+13 43.4	1.575	2.544	5.3	21.1
2 21	8 28.93	+14 27.4	1.597	2.524	9.9	21.3
3 2	8 21.70	+15 6.4	1.644	2.503	14.0	21.5

175651 3094 $T\text{-}2$ 1 30.8 196.°84 1.°4/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.24	+19 49.9	2.306	3.075	13.2	20.6
1 2	9 14.47	+20 22.3	2.210	3.072	10.4	20.4
1 12	9 7.42	+21 1.6	2.137	3.069	7.1	20.2
1 22	8 58.58	+21 43.8	2.092	3.065	3.4	20.0
2 1	8 48.74	+22 24.1	2.077	3.060	1.7	19.8
2 11	8 38.93	+22 57.8	2.093	3.054	5.1	20.1
2 21	8 30.12	+23 22.1	2.138	3.048	8.7	20.3
3 2	8 23.15	+23 35.7	2.209	3.041	11.9	20.5

105067 2000 KA_{66} 1 30.8 218.°58 6.°4/ 4.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.73	− 2 17.9	1.973	2.682	17.1	19.7
1 2	9 10.43	− 2 27.8	1.877	2.680	14.6	19.5
1 12	9 4.83	− 2 15.3	1.800	2.677	11.6	19.3
1 22	8 57.40	− 1 38.7	1.746	2.675	8.6	19.1
2 1	8 48.92	− 0 38.8	1.719	2.673	6.6	19.0
2 11	8 40.41	+ 0 39.9	1.719	2.670	7.0	19.0
2 21	8 32.90	+ 2 10.7	1.747	2.668	9.6	19.2
3 2	8 27.24	+ 3 45.8	1.800	2.665	12.7	19.4

364304 2006 UC_{28} 1 30.8 135.°43 3.°9/ 2.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.95	+ 3 58.6	2.297	3.014	14.7	22.4
1 2	9 13.18	+ 3 52.9	2.211	3.030	12.1	22.3
1 12	9 6.37	+ 4 2.6	2.148	3.044	9.1	22.1
1 22	8 58.00	+ 4 27.4	2.110	3.058	6.0	21.9
2 1	8 48.85	+ 5 5.3	2.101	3.071	3.9	21.8
2 11	8 39.82	+ 5 52.6	2.123	3.083	5.1	21.9
2 21	8 31.79	+ 6 44.8	2.174	3.095	7.9	22.1
3 2	8 25.45	+ 7 37.5	2.252	3.106	10.9	22.3

362310 2009 UM_{3} 1 30.8 268.°56 2.°5/ 1.7 13 C

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.21	+ 6 15.1	3.035	3.734	11.8	24.0
1 2	9 16.48	+ 6 30.0	2.880	3.691	9.8	23.8
1 12	9 8.73	+ 6 57.5	2.749	3.647	7.3	23.5
1 22	8 59.28	+ 7 37.1	2.647	3.601	4.5	23.3
2 1	8 48.65	+ 8 27.2	2.577	3.554	2.5	23.1
2 11	8 37.61	+ 9 24.3	2.542	3.504	4.2	23.1
2 21	8 26.99	+10 24.8	2.539	3.453	7.3	23.2
3 2	8 17.59	+11 24.6	2.567	3.400	10.4	23.4

234391 2001 QH_{204} 1 30.8 272.°97 2.°5/31.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.68	+12 46.4	1.498	2.277	18.7	20.3
1 2	9 16.80	+12 16.6	1.405	2.267	15.2	20.1
1 12	9 9.69	+11 59.1	1.331	2.258	10.9	19.8
1 22	8 59.92	+11 52.9	1.281	2.249	6.0	19.5
2 1	8 48.57	+11 55.9	1.257	2.239	2.5	19.2
2 11	8 37.19	+12 4.3	1.261	2.230	6.3	19.4
2 21	8 27.29	+12 14.5	1.290	2.221	11.3	19.7
3 2	8 20.11	+12 23.1	1.343	2.211	15.9	19.9

429248 2010 AW_{125} 1 30.8 104.°54 1.°9/ 1.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.77	+ 7 50.0	2.472	3.213	13.2	21.0
1 2	9 9.10	+ 8 23.8	2.384	3.223	10.6	20.8
1 12	9 3.59	+ 9 11.8	2.318	3.233	7.6	20.6
1 22	8 56.69	+10 11.9	2.280	3.242	4.3	20.4
2 1	8 49.05	+11 20.4	2.271	3.252	1.9	20.3
2 11	8 41.48	+12 32.4	2.293	3.261	4.0	20.4
2 21	8 34.74	+13 43.0	2.345	3.271	7.2	20.7
3 2	8 29.49	+14 48.2	2.424	3.280	10.2	20.9

418315 2008 FY_{98} 1 30.8 307.°30 4.°2/ 2.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.49	+ 4 51.0	1.690	2.447	17.8	21.5
1 2	9 10.01	+ 4 53.4	1.588	2.433	14.7	21.3
1 12	9 4.89	+ 5 17.3	1.506	2.418	11.1	21.0
1 22	8 57.58	+ 6 2.8	1.447	2.404	7.1	20.7
2 1	8 48.92	+ 7 7.6	1.414	2.390	4.3	20.5
2 11	8 40.12	+ 8 25.8	1.409	2.377	6.1	20.6
2 21	8 32.39	+ 9 49.7	1.430	2.363	10.2	20.8
3 2	8 26.82	+11 11.7	1.476	2.351	14.4	21.0

336550 2009 CM_{45} 1 30.8 98.°67 0.°5/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.38	+19 3.0	2.568	3.328	12.2	21.1
1 2	9 14.02	+19 8.1	2.493	3.351	9.6	20.9
1 12	9 6.75	+19 17.8	2.444	3.373	6.4	20.8
1 22	8 58.13	+19 29.5	2.422	3.394	3.0	20.6
2 1	8 48.89	+19 40.2	2.431	3.416	0.8	20.4
2 11	8 39.90	+19 47.4	2.472	3.436	4.1	20.7
2 21	8 31.95	+19 49.3	2.542	3.457	7.2	20.9
3 2	8 25.65	+19 45.4	2.639	3.477	10.0	21.2

127036 2002 GZ_{34} 1 30.8 305.°26 0.°9/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.40	+16 54.5	1.587	2.378	17.3	19.7
1 2	9 14.02	+17 29.4	1.503	2.377	13.7	19.5
1 12	9 7.65	+18 17.6	1.440	2.377	9.3	19.2
1 22	8 58.88	+19 14.2	1.402	2.376	4.4	18.9
2 1	8 48.76	+20 12.2	1.391	2.375	1.3	18.7
2 11	8 38.70	+21 4.4	1.407	2.374	6.2	19.0
2 21	8 30.08	+21 45.5	1.450	2.373	11.0	19.3
3 2	8 23.98	+22 12.9	1.517	2.373	15.1	19.5

136435 2005 EH_{32} 1 30.8 183.°47 4.°8/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.70	+28 27.3	1.900	2.687	15.0	20.2
1 2	9 17.84	+29 16.9	1.818	2.687	11.9	20.0
1 12	9 10.05	+30 8.3	1.758	2.688	8.5	19.8
1 22	8 59.96	+30 54.3	1.725	2.687	5.5	19.6
2 1	8 48.62	+31 27.5	1.720	2.686	5.1	19.6
2 11	8 37.45	+31 42.8	1.744	2.685	7.8	19.7
2 21	8 27.76	+31 38.8	1.795	2.684	11.3	19.9
3 2	8 20.56	+31 17.2	1.869	2.682	14.5	20.1

496908 2001 QC_{237} 1 30.8 128.°93 3.°2/27.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.00	+32 25.6	3.992	4.758	8.1	22.2
1 2	9 10.14	+32 55.9	3.917	4.772	6.4	22.1
1 12	9 3.93	+33 24.1	3.868	4.785	4.7	21.9
1 22	8 56.74	+33 47.2	3.848	4.798	3.4	21.9
2 1	8 49.09	+34 2.4	3.859	4.811	3.4	21.9
2 11	8 41.58	+34 8.1	3.900	4.823	4.6	22.0
2 21	8 34.74	+34 3.7	3.971	4.835	6.3	22.1
3 2	8 29.04	+33 49.6	4.068	4.847	7.9	22.2

358996 2008 SN_{289} 1 30.8 14.°20 1.°9/30.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.08	+20 11.9	1.081	1.909	21.3	21.1
1 2	9 14.10	+20 24.1	1.018	1.913	16.8	20.8
1 12	9 8.23	+20 47.3	0.973	1.918	11.4	20.6
1 22	8 59.28	+21 15.5	0.949	1.924	5.5	20.3
2 1	8 48.73	+21 40.7	0.948	1.932	2.3	20.1
2 11	8 38.58	+21 55.9	0.972	1.941	7.8	20.4
2 21	8 30.62	+21 57.6	1.018	1.951	13.4	20.8
3 2	8 26.04	+21 45.4	1.085	1.962	18.1	21.1

130714 2000 SR_{198} 1 30.8 332.°62 0.°8/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.72	+17 53.2	1.295	2.106	19.4	19.1
1 2	9 13.46	+18 1.9	1.209	2.094	15.5	18.8
1 12	9 7.73	+18 23.1	1.143	2.084	10.6	18.5
1 22	8 59.09	+18 52.7	1.099	2.074	5.1	18.1
2 1	8 48.74	+19 24.2	1.081	2.065	1.2	17.8
2 11	8 38.40	+19 50.8	1.087	2.057	7.0	18.2
2 21	8 29.74	+20 7.6	1.118	2.050	12.5	18.4
3 2	8 24.09	+20 12.2	1.170	2.043	17.4	18.7

429719 2011 JB_{29} 1 30.8 203.°45 3.°8/ 2.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.27	+ 3 16.9	2.893	3.599	12.2	21.8
1 2	9 10.03	+ 3 0.9	2.786	3.595	10.1	21.7
1 12	9 4.13	+ 2 57.1	2.701	3.590	7.8	21.5
1 22	8 56.96	+ 3 5.5	2.643	3.584	5.4	21.3
2 1	8 49.07	+ 3 25.5	2.615	3.578	3.8	21.2
2 11	8 41.17	+ 3 54.9	2.616	3.572	4.6	21.3
2 21	8 33.93	+ 4 30.7	2.648	3.565	6.9	21.4
3 2	8 27.97	+ 5 9.6	2.707	3.558	9.4	21.5

496019 2008 ON_{11} 1 30.8 217.°24 0.°4/31.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.77	+15 41.1	2.582	3.334	12.4	21.8
1 2	9 13.83	+15 43.0	2.474	3.325	9.8	21.6
1 12	9 6.87	+15 52.0	2.390	3.315	6.8	21.4
1 22	8 58.32	+16 5.9	2.335	3.305	3.4	21.2
2 1	8 48.89	+16 22.0	2.309	3.294	0.5	20.9
2 11	8 39.44	+16 37.4	2.316	3.283	4.1	21.2
2 21	8 30.83	+16 49.8	2.352	3.271	7.5	21.4
3 2	8 23.80	+16 57.5	2.415	3.258	10.7	21.6

343578 2010 FH_{88} 1 30.8 123.°02 3.°9/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.06	+29 6.2	2.429	3.209	12.3	20.8
1 2	9 14.23	+29 41.6	2.349	3.215	9.7	20.6
1 12	9 7.17	+30 17.0	2.293	3.220	6.9	20.5
1 22	8 58.45	+30 47.1	2.264	3.226	4.5	20.3
2 1	8 48.88	+31 7.0	2.265	3.231	4.2	20.3
2 11	8 39.50	+31 13.6	2.296	3.236	6.3	20.4
2 21	8 31.25	+31 6.0	2.354	3.240	9.1	20.6
3 2	8 24.88	+30 45.0	2.437	3.245	11.7	20.8

416890 2005 QY_{125} 1 30.8 59.°54 2.°2/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.10	+21 52.7	1.680	2.472	16.5	21.4
1 2	9 15.76	+22 13.8	1.611	2.486	12.9	21.2
1 12	9 8.55	+22 40.9	1.564	2.500	8.7	21.0
1 22	8 59.18	+23 8.7	1.541	2.514	4.3	20.7
2 1	8 48.78	+23 31.3	1.547	2.529	2.5	20.6
2 11	8 38.72	+23 44.2	1.581	2.543	6.3	20.9
2 21	8 30.25	+23 45.3	1.642	2.558	10.4	21.2
3 2	8 24.27	+23 34.8	1.726	2.573	14.0	21.4

520041 2013 VA_{29} 1 30.8 34.°03 5.°1/ 3.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.28	+ 2 9.8	2.098	2.824	15.7	21.1
1 2	9 9.86	+ 1 44.5	2.009	2.828	13.1	20.9
1 12	9 4.31	+ 1 36.2	1.941	2.833	10.1	20.8
1 22	8 57.13	+ 1 45.7	1.896	2.837	7.2	20.6
2 1	8 49.07	+ 2 12.2	1.879	2.842	5.2	20.5
2 11	8 41.08	+ 2 52.4	1.890	2.846	6.0	20.5
2 21	8 34.05	+ 3 41.7	1.929	2.851	8.7	20.7
3 2	8 28.76	+ 4 35.0	1.993	2.857	11.7	20.9

18762 1999 HC_9 1 30.8 122.°90 0.°2/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 24.44	+15 24.8	1.564	2.339	18.2	18.7
1 2	9 19.31	+15 40.5	1.492	2.355	14.4	18.4
1 12	9 11.07	+16 8.9	1.441	2.371	9.9	18.2
1 22	9 0.44	+16 45.6	1.414	2.386	4.8	17.9
2 1	8 48.62	+17 25.0	1.416	2.401	0.6	17.7
2 11	8 37.13	+18 0.8	1.447	2.415	5.8	18.1
2 21	8 27.33	+18 29.0	1.504	2.428	10.6	18.4
3 2	8 20.26	+18 47.3	1.586	2.440	14.7	18.7

214323 2005 JW_{55} 1 30.8 170.°86 3.°6/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.37	+25 31.5	2.256	3.034	13.2	21.2
1 2	9 15.50	+26 28.8	2.171	3.038	10.4	21.1
1 12	9 8.20	+27 30.0	2.111	3.041	7.2	20.9
1 22	8 59.02	+28 29.1	2.078	3.044	4.3	20.7
2 1	8 48.81	+29 19.7	2.075	3.046	3.9	20.7
2 11	8 38.69	+29 57.0	2.103	3.047	6.5	20.8
2 21	8 29.70	+30 18.4	2.158	3.048	9.6	21.0
3 2	8 22.71	+30 24.2	2.238	3.048	12.6	21.2

210248 2007 RV_{235} 1 30.8 73.°18 0.°1/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.03	+16 10.8	1.539	2.324	18.0	20.8
1 2	9 16.58	+16 24.3	1.475	2.344	14.2	20.6
1 12	9 9.14	+16 49.6	1.432	2.365	9.6	20.4
1 22	8 59.47	+17 22.3	1.413	2.386	4.6	20.1
2 1	8 48.76	+17 56.7	1.422	2.407	0.7	19.9
2 11	8 38.46	+18 27.3	1.459	2.427	5.7	20.3
2 21	8 29.85	+18 50.2	1.522	2.448	10.3	20.6
3 2	8 23.85	+19 3.6	1.610	2.468	14.3	20.9

522658 2016 GT_{263} 1 30.8 183.°02 3.°4/ 2.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.59	+ 3 48.7	2.740	3.457	12.6	22.3
1 2	9 8.82	+ 3 48.6	2.640	3.457	10.4	22.2
1 12	9 3.36	+ 4 1.9	2.562	3.457	7.8	22.0
1 22	8 56.62	+ 4 28.5	2.510	3.457	5.2	21.8
2 1	8 49.16	+ 5 6.6	2.487	3.456	3.5	21.7
2 11	8 41.73	+ 5 53.3	2.495	3.455	4.4	21.8
2 21	8 35.00	+ 6 44.9	2.532	3.454	6.9	21.9
3 2	8 29.59	+ 7 37.5	2.596	3.453	9.6	22.1

82250 2001 KW_2 1 30.8 190.°54 2.°8/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.58	+21 49.1	1.981	2.757	14.9	21.0
1 2	9 17.61	+22 44.8	1.890	2.756	11.7	20.8
1 12	9 9.88	+23 48.7	1.821	2.754	8.0	20.6
1 22	8 59.93	+24 54.5	1.780	2.751	4.2	20.3
2 1	8 48.70	+25 55.0	1.769	2.747	3.1	20.2
2 11	8 37.47	+26 43.7	1.788	2.742	6.5	20.4
2 21	8 27.48	+27 16.9	1.835	2.737	10.4	20.7
3 2	8 19.76	+27 33.8	1.907	2.730	13.9	20.9

414955 2011 BC_{117} 1 30.8 71.°19 2.°9/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.28	+21 54.7	1.777	2.569	15.7	21.3
1 2	9 14.25	+22 49.5	1.711	2.586	12.2	21.1
1 12	9 7.50	+23 51.7	1.667	2.603	8.3	20.9
1 22	8 58.70	+24 54.5	1.649	2.620	4.3	20.7
2 1	8 48.89	+25 50.7	1.659	2.637	3.2	20.6
2 11	8 39.36	+26 34.3	1.698	2.655	6.6	20.9
2 21	8 31.27	+27 2.2	1.764	2.672	10.4	21.1
3 2	8 25.51	+27 14.2	1.854	2.689	13.7	21.4

151545 2002 SH_{47} 1 30.8 49.°49 2.°8/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.11	+22 7.1	1.267	2.077	19.9	19.9
1 2	9 18.39	+22 29.3	1.199	2.083	15.6	19.6
1 12	9 10.94	+22 59.8	1.151	2.091	10.7	19.4
1 22	9 0.55	+23 31.4	1.125	2.098	5.4	19.1
2 1	8 48.65	+23 56.1	1.124	2.106	3.1	19.0
2 11	8 37.13	+24 7.7	1.150	2.114	7.8	19.3
2 21	8 27.70	+24 3.8	1.200	2.122	12.8	19.6
3 2	8 21.55	+23 45.2	1.272	2.131	17.3	19.9

169014 2001 DM_{60} 1 30.8 330.°42 0.°8/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.17	+13 31.3	1.426	2.222	18.7	20.2
1 2	9 11.86	+13 45.8	1.338	2.213	15.0	19.9
1 12	9 6.44	+14 17.1	1.269	2.204	10.4	19.6
1 22	8 58.45	+15 2.3	1.223	2.196	5.3	19.3
2 1	8 48.92	+15 55.9	1.203	2.188	0.9	18.9
2 11	8 39.37	+16 50.5	1.210	2.181	6.1	19.3
2 21	8 31.25	+17 39.3	1.241	2.174	11.4	19.6
3 2	8 25.78	+18 17.7	1.295	2.168	16.1	19.8

50979 2000 GX_{92} 1 30.8 182.°59 4.°3/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.72	+29 49.7	2.455	3.236	12.2	19.2
1 2	9 14.07	+30 37.2	2.371	3.236	9.7	19.1
1 12	9 7.16	+31 24.9	2.310	3.236	7.0	18.9
1 22	8 58.51	+32 7.1	2.278	3.236	4.8	18.7
2 1	8 48.94	+32 38.5	2.275	3.235	4.6	18.7
2 11	8 39.48	+32 55.3	2.301	3.235	6.7	18.9
2 21	8 31.11	+32 56.1	2.355	3.234	9.4	19.0
3 2	8 24.61	+32 42.0	2.433	3.233	12.0	19.2

104785 2000 HL_{33} 1 30.8 161.°79 1.°3/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.50	+18 27.7	2.843	3.607	11.1	20.2
1 2	9 10.34	+19 25.1	2.752	3.613	8.7	20.1
1 12	9 4.42	+20 29.9	2.686	3.617	5.8	19.9
1 22	8 57.14	+21 38.2	2.649	3.622	2.8	19.7
2 1	8 49.13	+22 45.4	2.644	3.625	1.5	19.6
2 11	8 41.13	+23 46.9	2.670	3.629	4.3	19.8
2 21	8 33.87	+24 39.5	2.726	3.632	7.2	20.0
3 2	8 28.00	+25 21.3	2.809	3.635	9.8	20.2

408734 2014 OB_{63} 1 30.8 268.°83 2.°7/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.42	+19 51.6	1.593	2.390	17.0	21.1
1 2	9 14.26	+20 51.6	1.503	2.382	13.4	20.8
1 12	9 8.01	+22 4.7	1.435	2.373	9.2	20.6
1 22	8 59.19	+23 24.2	1.392	2.365	4.6	20.3
2 1	8 48.83	+24 41.0	1.376	2.356	3.1	20.2
2 11	8 38.38	+25 46.5	1.388	2.348	7.3	20.4
2 21	8 29.33	+26 34.8	1.426	2.339	11.9	20.6
3 2	8 22.89	+27 3.8	1.486	2.330	16.0	20.9

326689 2002 XO_{80} 1 30.8 42.°57 14.°0/18.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 24.15	+40 7.6	1.342	2.150	19.0	19.5
1 2	9 21.43	+44 25.0	1.314	2.174	16.2	19.4
1 12	9 14.05	+48 30.7	1.313	2.199	14.4	19.3
1 22	9 2.50	+52 2.1	1.337	2.225	14.1	19.4
2 1	8 48.35	+54 41.4	1.387	2.251	15.4	19.5
2 11	8 34.19	+56 21.6	1.460	2.278	17.4	19.7
2 21	8 22.63	+57 7.0	1.550	2.305	19.4	19.9
3 2	8 15.49	+57 8.2	1.656	2.333	21.2	20.2

296062 2009 AC_{41} 1 30.8 110.°45 0.°9/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.16	+17 43.9	1.786	2.561	16.3	21.8
1 2	9 17.15	+18 11.3	1.715	2.580	12.8	21.6
1 12	9 9.41	+18 48.4	1.666	2.598	8.6	21.4
1 22	8 59.61	+19 30.2	1.643	2.616	4.1	21.1
2 1	8 48.80	+20 11.1	1.649	2.633	1.2	21.0
2 11	8 38.30	+20 45.8	1.685	2.650	5.5	21.3
2 21	8 29.29	+21 10.8	1.748	2.666	9.7	21.6
3 2	8 22.64	+21 24.8	1.836	2.682	13.4	21.8

264419 2000 QM_{162} 1 30.8 157.°26 1.°5/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.93	+13 9.0	2.280	3.030	13.9	20.8
1 2	9 14.86	+12 55.7	2.189	3.036	11.1	20.6
1 12	9 7.61	+12 51.2	2.120	3.041	7.8	20.4
1 22	8 58.70	+12 54.0	2.079	3.046	4.1	20.2
2 1	8 48.94	+13 1.8	2.067	3.050	1.5	20.0
2 11	8 39.29	+13 11.9	2.087	3.054	4.4	20.2
2 21	8 30.69	+13 21.7	2.135	3.058	8.0	20.4
3 2	8 23.89	+13 29.2	2.210	3.061	11.2	20.6

203393 2001 XB_{139} 1 30.8 50.°69 5.°0/ 2.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.41	+ 6 49.1	1.445	2.211	19.9	20.4
1 2	9 14.87	+ 6 9.7	1.367	2.217	16.4	20.2
1 12	9 8.25	+ 5 48.7	1.308	2.223	12.2	20.0
1 22	8 59.21	+ 5 47.1	1.272	2.229	7.8	19.7
2 1	8 48.86	+ 6 3.5	1.261	2.235	5.0	19.6
2 11	8 38.68	+ 6 33.8	1.277	2.242	6.9	19.7
2 21	8 30.05	+ 7 12.1	1.318	2.249	11.1	19.9
3 2	8 24.05	+ 7 52.5	1.382	2.256	15.2	20.2

168304 3125 $T\text{-}_2$ 1 30.8 29.°80 9.°5/ 9.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.76	−13 48.8	2.168	2.802	17.6	19.3
1 2	9 7.91	−14 7.9	2.081	2.808	15.7	19.2
1 12	9 3.01	−14 0.2	2.009	2.815	13.6	19.0
1 22	8 56.54	−13 22.5	1.959	2.822	11.5	18.9
2 1	8 49.23	−12 14.2	1.931	2.830	9.9	18.8
2 11	8 41.98	−10 38.4	1.930	2.838	9.5	18.8
2 21	8 35.66	− 8 42.0	1.955	2.846	10.4	18.9
3 2	8 31.00	− 6 33.7	2.006	2.854	12.3	19.0

94642 2001 WE_{39} 1 30.8 36.°43 0.°9/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.07	+12 5.1	1.224	2.027	20.8	19.2
1 2	9 12.73	+12 35.1	1.160	2.038	16.5	19.0
1 12	9 7.03	+13 26.3	1.114	2.050	11.4	18.7
1 22	8 58.67	+14 33.9	1.090	2.063	5.7	18.4
2 1	8 48.94	+15 50.0	1.092	2.076	1.0	18.1
2 11	8 39.50	+17 4.9	1.119	2.091	6.4	18.5
2 21	8 31.88	+18 10.3	1.170	2.105	11.8	18.9
3 2	8 27.19	+19 1.2	1.244	2.121	16.4	19.2

316577 2011 SB_{210} 1 30.8 118.°81 0.°7/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.87	+12 20.4	1.756	2.524	16.8	21.5
1 2	9 14.69	+12 55.2	1.678	2.537	13.3	21.3
1 12	9 7.84	+13 45.6	1.622	2.550	9.2	21.1
1 22	8 58.92	+14 47.6	1.592	2.563	4.6	20.9
2 1	8 48.91	+15 55.4	1.590	2.575	0.8	20.6
2 11	8 39.07	+17 1.9	1.617	2.586	5.2	20.9
2 21	8 30.56	+18 1.4	1.672	2.597	9.6	21.2
3 2	8 24.33	+18 50.1	1.752	2.608	13.4	21.5

488531 2001 RL_{98} 1 30.8 161.°09 4.°6/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 23.80	+31 22.5	2.509	3.280	12.2	22.5
1 2	9 17.94	+32 10.5	2.430	3.287	9.8	22.3
1 12	9 9.72	+32 57.3	2.375	3.294	7.1	22.2
1 22	8 59.71	+33 36.8	2.348	3.301	5.0	22.1
2 1	8 48.81	+34 3.6	2.351	3.306	4.9	22.1
2 11	8 38.09	+34 14.1	2.384	3.311	6.9	22.2
2 21	8 28.56	+34 7.8	2.445	3.315	9.5	22.4
3 2	8 21.05	+33 46.3	2.532	3.319	11.9	22.5

161118 2002 RB_{17} 1 30.8 77.°82 2.°7/ 1.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.23	+ 6 59.6	2.197	2.941	14.5	19.9
1 2	9 9.74	+ 7 13.9	2.109	2.949	11.8	19.7
1 12	9 4.20	+ 7 43.7	2.043	2.956	8.6	19.5
1 22	8 57.10	+ 8 27.3	2.003	2.963	5.1	19.3
2 1	8 49.16	+ 9 21.9	1.992	2.970	2.7	19.1
2 11	8 41.29	+10 22.5	2.010	2.977	4.5	19.3
2 21	8 34.37	+11 24.3	2.057	2.985	7.9	19.5
3 2	8 29.12	+12 22.6	2.130	2.992	11.1	19.7

454386 2014 MZ_{63} 1 30.8 275.°17 3.°7/ 1.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.48	+ 9 7.9	1.584	2.350	18.4	21.4
1 2	9 15.01	+ 8 40.2	1.482	2.335	15.1	21.1
1 12	9 8.51	+ 8 27.6	1.400	2.319	11.1	20.8
1 22	8 59.45	+ 8 30.5	1.341	2.304	6.7	20.6
2 1	8 48.81	+ 8 47.6	1.309	2.288	3.7	20.3
2 11	8 37.99	+ 9 15.0	1.304	2.272	6.4	20.4
2 21	8 28.42	+ 9 47.8	1.325	2.255	11.1	20.7
3 2	8 21.34	+10 20.9	1.369	2.239	15.6	20.9

421583 2014 OU_{196} 1 30.8 219.°24 0.°5/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.69	+17 45.7	1.935	2.708	15.3	21.9
1 2	9 16.11	+17 58.0	1.838	2.701	12.1	21.7
1 12	9 8.86	+18 19.2	1.763	2.694	8.3	21.5
1 22	8 59.46	+18 45.5	1.714	2.687	4.0	21.2
2 1	8 48.83	+19 12.4	1.694	2.678	0.9	20.9
2 11	8 38.20	+19 35.3	1.703	2.670	5.3	21.2
2 21	8 28.78	+19 50.9	1.741	2.661	9.7	21.5
3 2	8 21.54	+19 57.7	1.804	2.651	13.5	21.7

334562 2002 TM_{53} 1 30.8 82.°14 7.°2/ 5.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.23	− 5 40.4	2.404	3.072	15.3	20.5
1 2	9 10.99	− 6 27.0	2.327	3.093	13.2	20.4
1 12	9 4.86	− 6 55.1	2.271	3.114	10.9	20.2
1 22	8 57.34	− 7 2.5	2.237	3.134	8.8	20.1
2 1	8 49.14	− 6 49.0	2.231	3.155	7.4	20.1
2 11	8 41.08	− 6 16.6	2.251	3.175	7.4	20.1
2 21	8 33.95	− 5 29.4	2.300	3.195	8.9	20.2
3 2	8 28.38	− 4 32.8	2.374	3.215	10.9	20.4

118658 2000 JO_{58} 1 30.8 233.°08 1.°1/31.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.51	+11 52.4	2.250	3.004	14.0	20.4
1 2	9 12.47	+12 13.1	2.142	2.992	11.2	20.2
1 12	9 6.20	+12 46.3	2.057	2.980	7.9	20.0
1 22	8 58.14	+13 30.0	1.998	2.967	4.1	19.7
2 1	8 49.02	+14 20.5	1.969	2.953	1.1	19.5
2 11	8 39.80	+15 13.0	1.971	2.939	4.5	19.7
2 21	8 31.45	+16 3.1	2.001	2.925	8.4	19.9
3 2	8 24.82	+16 47.1	2.058	2.910	11.9	20.1

428511 2007 YK_{21} 1 30.8 256.°86 4.°3/ 2.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.90	+ 4 22.4	2.625	3.340	13.1	21.1
1 2	9 11.51	+ 3 38.9	2.518	3.332	10.9	20.9
1 12	9 5.27	+ 3 6.4	2.434	3.324	8.4	20.7
1 22	8 57.60	+ 2 45.6	2.375	3.316	5.9	20.5
2 1	8 49.10	+ 2 36.7	2.346	3.308	4.4	20.4
2 11	8 40.59	+ 2 38.6	2.347	3.300	5.3	20.5
2 21	8 32.83	+ 2 48.9	2.377	3.292	7.7	20.6
3 2	8 26.50	+ 3 4.8	2.433	3.283	10.3	20.8

61943 2000 RT_{12} 1 30.8 111.°51 4.°3/ 2.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.18	+ 5 16.0	1.741	2.484	17.8	19.0
1 2	9 14.86	+ 5 1.9	1.664	2.499	14.6	18.8
1 12	9 7.90	+ 5 6.4	1.606	2.513	10.9	18.6
1 22	8 58.93	+ 5 29.2	1.573	2.526	7.0	18.4
2 1	8 48.93	+ 6 7.8	1.566	2.540	4.4	18.3
2 11	8 39.11	+ 6 57.4	1.588	2.552	6.0	18.4
2 21	8 30.63	+ 7 52.2	1.638	2.565	9.6	18.6
3 2	8 24.38	+ 8 46.3	1.713	2.577	13.3	18.9

47645 2000 CD_{37} 1 30.8 196.°17 2.°6/ 2.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.39	+ 6 31.5	2.539	3.272	13.1	18.7
1 2	9 9.63	+ 6 44.0	2.439	3.270	10.7	18.5
1 12	9 4.03	+ 7 10.2	2.361	3.268	7.8	18.3
1 22	8 57.01	+ 7 49.1	2.309	3.266	4.8	18.1
2 1	8 49.19	+ 8 38.2	2.287	3.264	2.7	17.9
2 11	8 41.37	+ 9 33.8	2.295	3.261	4.2	18.0
2 21	8 34.31	+10 31.5	2.332	3.258	7.2	18.2
3 2	8 28.70	+11 27.3	2.397	3.255	10.2	18.4

49429 1998 XZ_{95} 1 30.8 76.°34 0.°1/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.67	+14 34.0	1.797	2.564	16.5	19.2
1 2	9 16.50	+15 10.5	1.741	2.601	12.9	19.0
1 12	9 8.79	+15 58.9	1.707	2.637	8.7	18.9
1 22	8 59.24	+16 54.5	1.700	2.672	4.1	18.7
2 1	8 48.91	+17 51.2	1.722	2.707	0.6	18.4
2 11	8 39.02	+18 43.1	1.773	2.741	5.1	18.9
2 21	8 30.63	+19 26.2	1.853	2.774	9.1	19.2
3 2	8 24.52	+19 58.3	1.958	2.807	12.5	19.4

67414 2000 QQ_{60} 1 30.8 87.°17 2.°1/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.03	+21 3.9	1.894	2.681	15.1	19.5
1 2	9 13.99	+21 37.7	1.814	2.686	11.8	19.3
1 12	9 7.34	+22 18.6	1.756	2.692	8.0	19.0
1 22	8 58.68	+23 1.6	1.725	2.697	4.0	18.8
2 1	8 48.97	+23 40.7	1.721	2.703	2.3	18.7
2 11	8 39.42	+24 10.8	1.747	2.708	5.9	18.9
2 21	8 31.16	+24 29.0	1.800	2.713	9.8	19.2
3 2	8 25.09	+24 34.4	1.877	2.719	13.3	19.4

250252 2003 AE_{68} 1 30.8 52.°29 1.°8/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.63	+12 12.3	1.508	2.288	18.6	19.9
1 2	9 14.67	+12 10.5	1.447	2.311	14.7	19.7
1 12	9 7.84	+12 23.8	1.407	2.335	10.3	19.5
1 22	8 58.89	+12 49.4	1.390	2.359	5.4	19.3
2 1	8 48.96	+13 22.7	1.400	2.384	1.8	19.1
2 11	8 39.45	+13 58.2	1.438	2.408	5.5	19.4
2 21	8 31.57	+14 31.1	1.502	2.433	10.0	19.8
3 2	8 26.19	+14 57.9	1.590	2.458	13.9	20.1

153809 2001 VP_{118} 1 30.8 29.°99 5.°1/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.44	+26 33.3	1.500	2.311	17.2	18.9
1 2	9 14.28	+27 33.7	1.436	2.320	13.5	18.7
1 12	9 7.90	+28 38.4	1.393	2.330	9.5	18.5
1 22	8 59.04	+29 38.7	1.375	2.341	5.9	18.3
2 1	8 48.93	+30 25.7	1.383	2.353	5.5	18.3
2 11	8 39.15	+30 53.1	1.417	2.365	8.6	18.5
2 21	8 31.12	+30 58.9	1.476	2.378	12.4	18.8
3 2	8 25.87	+30 44.8	1.557	2.392	15.9	19.0

413048 2001 QA_{188} 1 30.8 122.°69 1.°2/31.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.36	+13 54.9	2.194	2.946	14.3	21.4
1 2	9 15.96	+13 46.1	2.114	2.963	11.4	21.2
1 12	9 8.33	+13 46.1	2.056	2.978	7.9	21.0
1 22	8 59.04	+13 52.9	2.025	2.993	4.1	20.8
2 1	8 48.94	+14 4.0	2.024	3.008	1.2	20.6
2 11	8 39.07	+14 16.1	2.054	3.022	4.4	20.9
2 21	8 30.36	+14 26.9	2.113	3.035	8.1	21.1
3 2	8 23.57	+14 34.3	2.199	3.048	11.3	21.3

6464 Kaburaki 1 30.8 9.°60 2.°2/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.78	+19 42.2	2.043	2.831	14.1	16.8
1 2	9 10.56	+20 43.9	1.958	2.831	11.0	16.6
1 12	9 5.00	+21 55.4	1.896	2.832	7.4	16.4
1 22	8 57.58	+23 11.0	1.860	2.833	3.7	16.2
2 1	8 49.13	+24 24.2	1.854	2.834	2.5	16.1
2 11	8 40.71	+25 28.4	1.877	2.835	5.8	16.3
2 21	8 33.35	+26 19.2	1.928	2.837	9.5	16.5
3 2	8 27.93	+26 54.7	2.003	2.839	12.8	16.7

452787 2006 FS_{17} 1 30.8 297.°28 0.°8/31.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.80	+13 43.1	1.491	2.282	18.3	21.6
1 2	9 13.20	+13 56.6	1.391	2.263	14.7	21.3
1 12	9 7.47	+14 26.5	1.310	2.243	10.3	21.0
1 22	8 59.05	+15 10.2	1.252	2.224	5.2	20.7
2 1	8 48.91	+16 2.5	1.220	2.205	0.9	20.3
2 11	8 38.54	+16 56.3	1.216	2.186	6.2	20.6
2 21	8 29.46	+17 45.0	1.237	2.168	11.6	20.9
3 2	8 23.01	+18 23.6	1.280	2.150	16.5	21.1

205536 2001 SY_{166} 1 30.8 349.°67 1.°4/29.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.33	+20 4.1	2.264	3.043	13.1	20.5
1 2	9 11.46	+20 29.4	2.175	3.043	10.3	20.3
1 12	9 5.43	+21 1.2	2.108	3.042	7.0	20.1
1 22	8 57.72	+21 35.5	2.069	3.042	3.4	19.8
2 1	8 49.12	+22 8.1	2.059	3.041	1.6	19.7
2 11	8 40.60	+22 34.8	2.078	3.041	4.9	19.9
2 21	8 33.08	+22 53.0	2.126	3.041	8.5	20.1
3 2	8 27.33	+23 1.3	2.199	3.041	11.6	20.3

241553 2010 FT_{88} 1 30.8 31.°66 3.°1/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.77	+20 46.0	1.290	2.103	19.4	20.4
1 2	9 14.98	+21 36.4	1.222	2.108	15.2	20.2
1 12	9 8.66	+22 38.7	1.173	2.114	10.3	19.9
1 22	8 59.52	+23 45.0	1.147	2.121	5.2	19.7
2 1	8 48.88	+24 45.6	1.147	2.128	3.5	19.6
2 11	8 38.49	+25 31.7	1.173	2.135	7.9	19.9
2 21	8 29.99	+25 59.0	1.223	2.143	12.9	20.1
3 2	8 24.55	+26 6.8	1.295	2.151	17.2	20.4

522597 2016 EW_{247} 1 30.8 208.°55 0.°0/30.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.20	+15 35.1	2.614	3.374	12.1	22.8
1 2	9 11.06	+15 59.5	2.513	3.369	9.5	22.6
1 12	9 5.02	+16 32.4	2.436	3.364	6.5	22.4
1 22	8 57.50	+17 11.1	2.386	3.358	3.1	22.1
2 1	8 49.16	+17 52.0	2.367	3.352	0.4	21.9
2 11	8 40.81	+18 31.3	2.379	3.346	4.0	22.2
2 21	8 33.26	+19 5.8	2.420	3.339	7.4	22.4
3 2	8 27.19	+19 33.4	2.488	3.332	10.4	22.6

261262 2005 UE_{98} 1 30.8 325.°27 0.°8/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.03	+13 25.7	1.810	2.587	16.0	21.1
1 2	9 11.78	+13 42.3	1.719	2.583	12.8	20.9
1 12	9 5.97	+14 12.5	1.650	2.580	8.9	20.6
1 22	8 58.10	+14 53.3	1.605	2.576	4.5	20.4
2 1	8 49.08	+15 40.4	1.588	2.573	0.9	20.1
2 11	8 40.08	+16 28.0	1.600	2.570	5.1	20.4
2 21	8 32.24	+17 11.2	1.639	2.567	9.5	20.6
3 2	8 26.53	+17 46.3	1.702	2.564	13.4	20.9

453576 2010 GV_5 1 30.8 281.°68 0.°2/30.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.27	+16 1.8	1.546	2.335	17.8	21.9
1 2	9 15.13	+16 19.4	1.441	2.314	14.3	21.6
1 12	9 8.80	+16 51.1	1.357	2.292	9.9	21.3
1 22	8 59.71	+17 33.3	1.297	2.271	4.8	21.0
2 1	8 48.84	+18 20.3	1.264	2.249	0.8	20.6
2 11	8 37.69	+19 5.1	1.258	2.227	6.4	20.9
2 21	8 27.83	+19 41.7	1.278	2.205	11.8	21.2
3 2	8 20.60	+20 6.8	1.321	2.183	16.6	21.4

122649 2000 RX_{87} 1 30.8 86.°19 1.°5/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.77	+12 26.7	1.937	2.701	15.6	20.3
1 2	9 13.52	+12 26.0	1.859	2.714	12.4	20.2
1 12	9 6.88	+12 37.1	1.802	2.726	8.7	19.9
1 22	8 58.42	+12 57.9	1.771	2.739	4.6	19.7
2 1	8 49.06	+13 25.1	1.768	2.751	1.5	19.5
2 11	8 39.89	+13 54.5	1.795	2.764	4.8	19.8
2 21	8 31.93	+14 22.3	1.849	2.776	8.7	20.0
3 2	8 26.01	+14 45.5	1.929	2.788	12.2	20.3

94733 2001 XG_{70} 1 30.8 6.°22 1.°3/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.63	+16 48.6	1.307	2.115	19.4	19.9
1 2	9 13.26	+17 29.9	1.231	2.115	15.3	19.6
1 12	9 7.51	+18 27.6	1.175	2.115	10.5	19.3
1 22	8 59.01	+19 35.6	1.141	2.116	5.0	19.0
2 1	8 48.96	+20 45.4	1.134	2.118	1.7	18.8
2 11	8 39.02	+21 47.5	1.152	2.120	7.0	19.2
2 21	8 30.79	+22 35.3	1.195	2.122	12.3	19.5
3 2	8 25.48	+23 5.9	1.259	2.126	16.9	19.7

42751 1998 SP_{55} 1 30.8 159.°93 0.°6/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.65	+13 43.7	2.495	3.251	12.7	20.2
1 2	9 11.42	+14 4.5	2.403	3.255	10.1	20.0
1 12	9 5.25	+14 34.8	2.335	3.260	6.9	19.8
1 22	8 57.61	+15 12.3	2.294	3.264	3.5	19.6
2 1	8 49.18	+15 53.5	2.283	3.267	0.6	19.4
2 11	8 40.82	+16 34.5	2.302	3.271	4.0	19.6
2 21	8 33.32	+17 11.7	2.352	3.273	7.4	19.9
3 2	8 27.38	+17 42.9	2.428	3.276	10.4	20.1

379993 2013 BU_{39} 1 30.8 262.°15 0.°3/30.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.25	+14 17.7	1.722	2.499	16.7	21.9
1 2	9 14.72	+14 41.5	1.616	2.481	13.4	21.6
1 12	9 8.28	+15 20.2	1.532	2.463	9.3	21.3
1 22	8 59.38	+16 10.5	1.472	2.444	4.6	21.0
2 1	8 48.92	+17 7.2	1.440	2.425	0.6	20.6
2 11	8 38.23	+18 3.5	1.436	2.405	5.8	21.0
2 21	8 28.68	+18 53.5	1.460	2.385	10.7	21.2
3 2	8 21.48	+19 32.9	1.507	2.365	15.1	21.4

297228 1012 $T\text{-}_3$ 1 30.8 189.°42 2.°4/28.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.67	+26 16.3	3.239	4.005	9.8	21.5
1 2	9 12.60	+26 40.4	3.144	4.003	7.7	21.4
1 12	9 5.84	+27 5.4	3.074	4.001	5.3	21.2
1 22	8 57.83	+27 27.9	3.033	3.999	3.1	21.0
2 1	8 49.16	+27 44.7	3.023	3.996	2.6	21.0
2 11	8 40.57	+27 53.3	3.045	3.993	4.5	21.1
2 21	8 32.73	+27 52.6	3.097	3.989	6.9	21.3
3 2	8 26.25	+27 42.6	3.176	3.985	9.2	21.4

227563 2005 YP_{190} 1 30.8 320.°55 0.°4/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.96	+16 39.2	1.974	2.752	14.8	20.9
1 2	9 12.28	+17 3.8	1.884	2.751	11.7	20.7
1 12	9 6.18	+17 38.6	1.817	2.750	8.0	20.5
1 22	8 58.17	+18 19.9	1.776	2.750	3.8	20.2
2 1	8 49.11	+19 3.0	1.764	2.749	0.8	20.0
2 11	8 40.10	+19 42.6	1.781	2.748	5.1	20.3
2 21	8 32.23	+20 14.9	1.826	2.748	9.1	20.5
3 2	8 26.35	+20 37.6	1.895	2.747	12.7	20.7

197574 2004 GU_{33} 1 30.8 225.°22 5.°6/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.94	+27 41.2	1.681	2.475	16.4	20.8
1 2	9 18.68	+28 51.6	1.594	2.468	13.0	20.5
1 12	9 11.09	+30 7.5	1.528	2.460	9.4	20.3
1 22	9 0.74	+31 19.6	1.489	2.451	6.2	20.1
2 1	8 48.75	+32 18.1	1.477	2.442	6.0	20.1
2 11	8 36.73	+32 55.4	1.493	2.432	9.1	20.2
2 21	8 26.27	+33 8.5	1.534	2.422	12.9	20.4
3 2	8 18.64	+32 58.9	1.597	2.412	16.5	20.6

309234 2007 QB_{16} 1 30.8 117.°32 0.°1/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.75	+15 4.5	1.839	2.608	16.1	22.0
1 2	9 16.01	+15 31.7	1.764	2.625	12.7	21.8
1 12	9 8.66	+16 10.7	1.712	2.641	8.7	21.6
1 22	8 59.32	+16 57.5	1.685	2.657	4.2	21.3
2 1	8 48.98	+17 46.5	1.687	2.672	0.6	21.1
2 11	8 38.86	+18 32.2	1.719	2.687	5.1	21.5
2 21	8 30.11	+19 10.3	1.779	2.701	9.4	21.7
3 2	8 23.61	+19 38.4	1.864	2.714	13.0	22.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
29198	Weathers		1 30.8	243.°90	5.°4/26.5	18
	h m	° ′			°	m
12 23	9 18.15	+27 31.2	1.968	2.760	14.4	17.7
1 2	9 14.47	+29 7.1	1.879	2.752	11.4	17.5
1 12	9 8.00	+30 49.3	1.814	2.744	8.2	17.3
1 22	8 59.20	+32 29.3	1.776	2.735	5.8	17.1
2 1	8 48.99	+33 57.4	1.768	2.726	5.9	17.1
2 11	8 38.65	+35 5.8	1.787	2.717	8.6	17.2
2 21	8 29.50	+35 50.7	1.834	2.708	11.9	17.4
3 2	8 22.64	+36 12.1	1.902	2.698	15.0	17.6
433566	2013 YZ_8		1 30.8	63.°33	2.°2/28.9	18
12 23	9 13.72	+19 58.2	2.297	3.078	12.9	20.7
1 2	9 10.21	+21 8.5	2.217	3.088	10.0	20.5
1 12	9 4.59	+22 27.1	2.162	3.097	6.8	20.3
1 22	8 57.36	+23 48.7	2.135	3.107	3.4	20.1
2 1	8 49.25	+25 6.9	2.137	3.116	2.5	20.1
2 11	8 41.22	+26 15.9	2.170	3.126	5.4	20.3
2 21	8 34.14	+27 11.7	2.232	3.136	8.7	20.5
3 2	8 28.77	+27 52.7	2.318	3.146	11.6	20.7
237141	2008 UV_{61}		1 30.8	59.°59	1.°0/30.3	18
12 23	9 18.15	+18 47.1	1.937	2.717	15.0	20.7
1 2	9 13.77	+19 7.3	1.872	2.740	11.7	20.6
1 12	9 6.99	+19 34.9	1.829	2.763	7.9	20.4
1 22	8 58.46	+20 5.9	1.813	2.786	3.7	20.2
2 1	8 49.13	+20 35.4	1.825	2.809	1.2	20.0
2 11	8 40.12	+20 59.3	1.867	2.833	5.1	20.3
2 21	8 32.44	+21 14.9	1.937	2.856	8.9	20.6
3 2	8 26.84	+21 21.2	2.031	2.879	12.2	20.9
77312	2001 FO_{81}		1 30.8	270.°15	2.°1/31.8	18
12 23	9 19.19	+12 34.3	1.735	2.504	16.9	20.1
1 2	9 15.21	+12 14.0	1.638	2.496	13.7	19.8
1 12	9 8.43	+12 5.3	1.562	2.487	9.7	19.6
1 22	8 59.37	+12 7.1	1.511	2.479	5.3	19.3
2 1	8 48.99	+12 16.9	1.487	2.470	2.1	19.1
2 11	8 38.59	+12 31.2	1.492	2.461	5.5	19.3
2 21	8 29.44	+12 46.2	1.524	2.453	10.1	19.5
3 2	8 22.61	+12 59.0	1.580	2.444	14.2	19.7
63703	2001 QB_{185}		1 30.8	88.°86	5.°3/ 3.7	18
12 23	9 14.65	+ 0 33.4	2.377	3.083	14.5	19.7
1 2	9 10.64	+ 0 0.5	2.291	3.094	12.2	19.6
1 12	9 4.72	− 0 16.8	2.226	3.105	9.6	19.4
1 22	8 57.37	− 0 17.4	2.186	3.116	7.1	19.3
2 1	8 49.27	− 0 1.9	2.174	3.127	5.4	19.2
2 11	8 41.27	+ 0 27.4	2.190	3.138	6.0	19.3
2 21	8 34.16	+ 1 6.7	2.234	3.149	8.1	19.4
3 2	8 28.61	+ 1 51.6	2.305	3.160	10.7	19.6
461934	2006 SS_{211}		1 30.8	39.°74	1.°0/31.4	16
12 23	9 16.64	+11 10.6	1.229	2.026	21.0	21.0
1 2	9 13.62	+11 50.9	1.183	2.057	16.6	20.8
1 12	9 7.36	+12 52.2	1.156	2.090	11.3	20.6
1 22	8 58.74	+14 8.4	1.151	2.123	5.7	20.4
2 1	8 49.10	+15 30.8	1.173	2.158	1.1	20.2
2 11	8 40.04	+16 49.5	1.221	2.192	6.0	20.6
2 21	8 32.89	+17 57.2	1.294	2.227	11.0	21.0
3 2	8 28.55	+18 49.7	1.389	2.262	15.2	21.3
122360	2000 QJ_{51}		1 30.8	131.°20	1.°3/30.1	18
12 23	9 22.40	+19 21.6	1.775	2.554	16.2	20.7
1 2	9 17.52	+19 44.8	1.697	2.564	12.8	20.4
1 12	9 9.81	+20 16.2	1.641	2.575	8.6	20.2
1 22	8 59.93	+20 51.1	1.611	2.584	4.1	20.0
2 1	8 48.93	+21 23.8	1.610	2.594	1.6	19.8
2 11	8 38.16	+21 49.0	1.638	2.603	5.8	20.1
2 21	8 28.87	+22 3.9	1.694	2.611	10.1	20.4
3 2	8 22.01	+22 7.6	1.774	2.619	13.8	20.6
7687	Matthias		1 30.8	324.°85	4.°8/ 2.2	18
12 23	9 13.95	+ 6 29.1	1.317	2.098	20.7	17.4
1 2	9 11.93	+ 6 6.9	1.228	2.088	17.2	17.2
1 12	9 6.68	+ 6 6.7	1.157	2.078	12.8	16.9
1 22	8 58.70	+ 6 29.6	1.108	2.068	8.2	16.6
2 1	8 49.07	+ 7 13.9	1.082	2.059	4.9	16.4
2 11	8 39.32	+ 8 13.6	1.082	2.051	7.2	16.5
2 21	8 31.05	+ 9 20.5	1.106	2.043	12.0	16.7
3 2	8 25.53	+10 26.4	1.152	2.036	16.8	16.9
445073	2008 SE_{300}		1 30.8	72.°99	2.°5/29.7	17
12 23	9 25.31	+21 36.9	1.406	2.201	19.0	21.7
1 2	9 20.23	+22 7.3	1.352	2.228	14.8	21.5
1 12	9 11.77	+22 45.1	1.318	2.255	10.0	21.3
1 22	9 0.83	+23 23.2	1.308	2.281	5.0	21.1
2 1	8 48.83	+23 54.1	1.326	2.307	2.8	21.0
2 11	8 37.46	+24 12.4	1.371	2.334	7.0	21.3
2 21	8 28.14	+24 16.1	1.443	2.359	11.5	21.7
3 2	8 21.84	+24 6.2	1.537	2.385	15.4	22.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
105750	2000 SY_{94}		1 30.8	90.°52	3.°7/ 1.8	18
	h m	° ′			°	m
12 23	9 19.62	+ 7 45.2	1.610	2.368	18.5	20.2
1 2	9 15.42	+ 7 28.4	1.537	2.383	15.0	20.0
1 12	9 8.42	+ 7 29.2	1.483	2.398	10.9	19.7
1 22	8 59.27	+ 7 46.7	1.452	2.412	6.6	19.5
2 1	8 49.02	+ 8 18.1	1.449	2.426	3.7	19.4
2 11	8 39.02	+ 8 58.6	1.473	2.441	5.9	19.5
2 21	8 30.48	+ 9 42.5	1.525	2.454	10.0	19.8
3 2	8 24.35	+10 24.7	1.601	2.468	13.9	20.1
333110	2011 UZ_{384}		1 30.8	193.°67	1.°0/31.4	18
12 23	9 21.08	+14 0.3	1.939	2.701	15.6	21.3
1 2	9 16.34	+14 0.0	1.845	2.699	12.5	21.0
1 12	9 8.98	+14 10.3	1.772	2.697	8.7	20.8
1 22	8 59.56	+14 29.1	1.725	2.695	4.5	20.5
2 1	8 48.98	+14 52.8	1.707	2.691	1.1	20.3
2 11	8 38.43	+15 17.3	1.719	2.688	5.0	20.5
2 21	8 29.08	+15 39.0	1.759	2.683	9.3	20.8
3 2	8 21.87	+15 55.3	1.825	2.678	13.1	21.0
500238	2012 JG_{24}		1 30.8	312.°62	6.°2/ 2.5	17
12 23	9 15.47	+ 4 34.2	1.674	2.425	18.1	20.9
1 2	9 12.47	+ 3 36.7	1.570	2.406	15.3	20.6
1 12	9 6.71	+ 2 54.4	1.485	2.387	11.9	20.4
1 22	8 58.62	+ 2 30.1	1.423	2.369	8.4	20.1
2 1	8 49.09	+ 2 24.9	1.386	2.352	6.2	19.9
2 11	8 39.36	+ 2 37.4	1.376	2.334	7.6	20.0
2 21	8 30.74	+ 3 3.7	1.392	2.317	11.1	20.1
3 2	8 24.35	+ 3 38.4	1.431	2.301	15.0	20.3
368743	2005 UP_{346}		1 30.8	239.°51	7.°0/ 4.4	17
12 23	9 16.56	− 3 46.0	2.423	3.099	15.0	21.6
1 2	9 12.36	− 4 29.4	2.308	3.084	13.0	21.4
1 12	9 6.10	− 4 56.3	2.214	3.068	10.7	21.2
1 22	8 58.15	− 5 4.1	2.143	3.051	8.5	21.1
2 1	8 49.17	− 4 51.5	2.099	3.034	7.1	20.9
2 11	8 40.03	− 4 19.8	2.083	3.016	7.4	20.9
2 21	8 31.63	− 3 32.4	2.096	2.997	9.3	21.0
3 2	8 24.77	− 2 34.4	2.134	2.978	11.8	21.1
80059	1999 JM_{75}		1 30.8	287.°52	0.°8/30.1	18
12 23	9 12.91	+15 43.8	2.334	3.105	13.0	19.2
1 2	9 9.71	+16 42.6	2.224	3.087	10.3	18.9
1 12	9 4.40	+17 54.1	2.138	3.070	7.0	18.7
1 22	8 57.37	+19 14.2	2.079	3.052	3.3	18.4
2 1	8 49.27	+20 37.4	2.051	3.035	1.1	18.2
2 11	8 41.02	+21 57.5	2.053	3.017	4.8	18.5
2 21	8 33.54	+23 9.0	2.084	2.999	8.6	18.7
3 2	8 27.67	+24 8.3	2.141	2.981	11.9	18.8
47893	2000 GY_{11}		1 30.8	47.°54	3.°1/29.1	18
12 23	9 19.50	+25 39.5	2.022	2.808	14.2	18.2
1 2	9 14.98	+26 0.9	1.944	2.815	11.2	18.0
1 12	9 7.93	+26 24.4	1.889	2.822	7.7	17.8
1 22	8 58.98	+26 44.9	1.861	2.830	4.3	17.6
2 1	8 49.08	+26 57.3	1.861	2.837	3.3	17.5
2 11	8 39.43	+26 58.2	1.891	2.845	6.2	17.7
2 21	8 31.11	+26 46.5	1.947	2.853	9.7	18.0
3 2	8 24.96	+26 23.0	2.029	2.861	12.8	18.2
145667	9537 P–L		1 30.8	50.°48	2.°4/ 1.3	18
12 23	9 15.44	+ 9 22.2	1.678	2.447	17.4	19.3
1 2	9 12.18	+ 9 31.1	1.597	2.453	14.0	19.1
1 12	9 6.26	+ 9 57.4	1.537	2.459	10.0	18.8
1 22	8 58.27	+10 39.1	1.500	2.466	5.6	18.6
2 1	8 49.17	+11 32.1	1.491	2.473	2.4	18.4
2 11	8 40.18	+12 30.2	1.510	2.480	5.3	18.6
2 21	8 32.48	+13 27.4	1.556	2.487	9.7	18.9
3 2	8 27.01	+14 18.7	1.626	2.495	13.6	19.1
406863	2009 BF_{121}		1 30.8	313.°67	0.°6/31.1	16
12 23	9 15.88	+14 39.8	1.450	2.245	18.5	21.8
1 2	9 13.27	+14 47.7	1.357	2.232	14.8	21.5
1 12	9 7.50	+15 10.3	1.284	2.220	10.3	21.2
1 22	8 59.07	+15 44.9	1.235	2.208	5.2	20.9
2 1	8 49.04	+16 26.3	1.211	2.196	0.8	20.6
2 11	8 38.93	+17 7.8	1.214	2.185	6.2	20.9
2 21	8 30.24	+17 43.6	1.242	2.174	11.5	21.2
3 2	8 24.22	+18 9.9	1.293	2.164	16.2	21.4
196420	2003 HO_9		1 30.8	237.°75	6.°2/ 4.3	18
12 23	9 14.56	− 2 0.9	2.308	3.003	15.2	20.4
1 2	9 10.85	− 2 25.3	2.200	2.993	13.0	20.3
1 12	9 5.08	− 2 31.7	2.113	2.982	10.5	20.1
1 22	8 57.66	− 2 18.3	2.049	2.971	8.0	19.9
2 1	8 49.25	− 1 45.1	2.012	2.960	6.3	19.8
2 11	8 40.75	− 0 54.5	2.003	2.948	6.7	19.8
2 21	8 33.04	+ 0 8.9	2.023	2.936	8.9	19.9
3 2	8 26.93	+ 1 19.3	2.068	2.924	11.7	20.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
496034	2008 TG_{107}		1 30.8	152.°03	0.°8/30.3	18
	h m	° ′			°	m
12 23	9 16.12	+17 43.0	2.269	3.040	13.3	22.2
1 2	9 12.07	+18 13.8	2.180	3.044	10.5	22.0
1 12	9 5.85	+18 52.9	2.115	3.047	7.1	21.8
1 22	8 57.98	+19 36.7	2.077	3.050	3.4	21.5
2 1	8 49.21	+20 20.5	2.069	3.053	1.1	21.4
2 11	8 40.52	+21 0.0	2.090	3.055	4.7	21.6
2 21	8 32.82	+21 31.7	2.141	3.058	8.3	21.9
3 2	8 26.88	+21 53.8	2.217	3.060	11.5	22.1
182430	2001 RF_{131}		1 30.8	71.°94	0.°7/31.3	18
12 23	9 16.40	+13 15.3	1.771	2.546	16.4	20.6
1 2	9 12.80	+13 38.1	1.692	2.555	13.0	20.3
1 12	9 6.61	+14 14.9	1.634	2.564	9.0	20.1
1 22	8 58.41	+15 2.2	1.601	2.572	4.5	19.9
2 1	8 49.16	+15 54.9	1.596	2.581	0.8	19.6
2 11	8 40.06	+16 47.2	1.620	2.590	5.1	19.9
2 21	8 32.23	+17 33.8	1.672	2.599	9.4	20.2
3 2	8 26.58	+18 11.3	1.748	2.608	13.2	20.5
463300	2012 HE_{79}		1 30.8	227.°67	3.°8/ 2.5	17
12 23	9 16.27	+ 4 38.1	2.506	3.224	13.6	22.2
1 2	9 12.00	+ 4 23.1	2.394	3.213	11.3	22.0
1 12	9 5.76	+ 4 21.3	2.304	3.201	8.5	21.8
1 22	8 57.95	+ 4 33.0	2.241	3.188	5.7	21.6
2 1	8 49.22	+ 4 57.2	2.206	3.175	3.9	21.5
2 11	8 40.40	+ 5 31.2	2.201	3.161	5.0	21.5
2 21	8 32.34	+ 6 11.6	2.226	3.147	7.8	21.7
3 2	8 25.78	+ 6 54.4	2.278	3.132	10.8	21.8
371622	2006 YA_{30}		1 30.8	283.°92	0.°1/30.8	18
12 23	9 19.08	+17 31.5	1.865	2.643	15.6	21.0
1 2	9 15.05	+17 27.6	1.762	2.628	12.4	20.8
1 12	9 8.29	+17 31.6	1.681	2.613	8.6	20.5
1 22	8 59.32	+17 40.9	1.626	2.598	4.2	20.2
2 1	8 49.04	+17 51.6	1.598	2.583	0.6	19.9
2 11	8 38.70	+17 59.9	1.600	2.568	5.4	20.2
2 21	8 29.53	+18 2.9	1.629	2.554	9.9	20.4
3 2	8 22.58	+17 59.2	1.683	2.539	13.9	20.6
144403	2004 EH_{7}		1 30.8	18.°07	1.°9/31.9	18
12 23	9 12.98	+10 27.6	1.384	2.176	19.3	19.6
1 2	9 10.82	+10 45.7	1.310	2.181	15.5	19.3
1 12	9 5.64	+11 24.1	1.255	2.186	11.0	19.1
1 22	8 58.07	+12 19.8	1.223	2.193	5.8	18.8
2 1	8 49.21	+13 27.2	1.216	2.200	1.9	18.6
2 11	8 40.50	+14 37.9	1.236	2.208	5.9	18.8
2 21	8 33.32	+15 44.2	1.281	2.217	10.9	19.1
3 2	8 28.70	+16 40.3	1.349	2.227	15.3	19.4
347392	2012 RP_{35}		1 30.8	123.°47	0.°1/30.9	18
12 23	9 15.21	+16 3.6	2.575	3.337	12.2	21.7
1 2	9 11.01	+16 19.0	2.488	3.345	9.6	21.5
1 12	9 4.94	+16 41.9	2.424	3.353	6.5	21.3
1 22	8 57.48	+17 9.6	2.388	3.360	3.1	21.1
2 1	8 49.31	+17 39.0	2.382	3.367	0.4	20.9
2 11	8 41.23	+18 6.7	2.407	3.375	3.9	21.2
2 21	8 34.03	+18 30.0	2.461	3.381	7.2	21.4
3 2	8 28.34	+18 47.3	2.542	3.388	10.1	21.6
464807	2004 RY_{73}		1 30.8	187.°04	0.°4/30.5	18
12 23	9 18.40	+17 40.4	2.355	3.119	13.1	22.0
1 2	9 13.77	+17 56.0	2.260	3.119	10.3	21.8
1 12	9 6.98	+18 18.8	2.189	3.118	7.0	21.6
1 22	8 58.52	+18 45.7	2.145	3.117	3.4	21.4
2 1	8 49.16	+19 13.0	2.131	3.115	0.7	21.1
2 11	8 39.86	+19 36.9	2.147	3.113	4.5	21.4
2 21	8 31.53	+19 54.8	2.193	3.111	8.1	21.6
3 2	8 24.95	+20 5.2	2.265	3.108	11.3	21.8
1909	Alekhin		1 30.8	281.°05	1.°2/31.5	18 R
12 23	9 17.70	+13 8.3	1.740	2.514	16.7	16.9
1 2	9 14.31	+13 12.9	1.628	2.490	13.5	16.6
1 12	9 8.05	+13 31.2	1.537	2.465	9.6	16.3
1 22	8 59.33	+14 1.5	1.471	2.441	5.0	16.0
2 1	8 49.03	+14 40.0	1.432	2.416	1.3	15.7
2 11	8 38.44	+15 21.2	1.421	2.391	5.6	15.9
2 21	8 28.92	+16 0.0	1.437	2.366	10.6	16.1
3 2	8 21.68	+16 32.2	1.477	2.340	15.1	16.3
222293	2000 SP_{168}		1 30.8	122.°99	5.°2/ 3.7	18
12 23	9 16.54	+ 0 27.2	2.319	3.022	14.9	20.9
1 2	9 12.16	+ 0 5.4	2.234	3.036	12.5	20.7
1 12	9 5.78	+ 0 0.3	2.170	3.050	9.8	20.5
1 22	8 57.91	+ 0 12.5	2.131	3.063	7.1	20.4
2 1	8 49.26	+ 0 41.2	2.120	3.076	5.3	20.3
2 11	8 40.73	+ 1 23.3	2.138	3.089	5.9	20.4
2 21	8 33.14	+ 2 14.4	2.185	3.101	8.2	20.5
3 2	8 27.18	+ 3 9.7	2.258	3.112	10.9	20.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
159906	2004 VH_{15}		1 30.8	29.°77	0.°2/30.9	18
	h m	° ′			°	m
12 23	9 15.12	+14 50.6	1.940	2.716	15.1	20.3
1 2	9 11.66	+15 14.8	1.853	2.718	12.0	20.1
1 12	9 5.78	+15 50.9	1.789	2.720	8.2	19.9
1 22	8 58.03	+16 35.3	1.750	2.722	4.0	19.7
2 1	8 49.26	+17 23.4	1.739	2.724	0.5	19.4
2 11	8 40.56	+18 9.9	1.758	2.727	4.9	19.7
2 21	8 32.98	+18 50.2	1.804	2.729	9.0	20.0
3 2	8 27.39	+19 21.6	1.876	2.732	12.7	20.2
269209	2008 KG_{20}		1 30.8	116.°85	0.°2/31.0	18
12 23	9 17.62	+14 28.3	2.260	3.020	13.7	21.8
1 2	9 13.10	+14 56.7	2.181	3.036	10.8	21.6
1 12	9 6.47	+15 35.4	2.125	3.053	7.4	21.4
1 22	8 58.26	+16 20.8	2.097	3.068	3.6	21.2
2 1	8 49.24	+17 8.9	2.098	3.083	0.4	20.9
2 11	8 40.39	+17 54.9	2.130	3.098	4.3	21.3
2 21	8 32.58	+18 35.2	2.192	3.112	7.9	21.5
3 2	8 26.53	+19 7.3	2.279	3.126	11.1	21.8
278409	2007 RJ_{33}		1 30.8	133.°09	0.°7/30.3	18
12 23	9 14.74	+16 38.4	2.539	3.304	12.3	20.7
1 2	9 10.73	+17 21.7	2.452	3.312	9.6	20.5
1 12	9 4.82	+18 13.8	2.390	3.320	6.5	20.3
1 22	8 57.47	+19 10.8	2.356	3.328	3.1	20.1
2 1	8 49.35	+20 8.4	2.352	3.336	0.9	19.9
2 11	8 41.29	+21 1.9	2.379	3.343	4.2	20.2
2 21	8 34.09	+21 47.9	2.435	3.350	7.5	20.4
3 2	8 28.42	+22 24.3	2.518	3.357	10.4	20.6
494995	2010 GP_{97}		1 30.9	270.°75	7.°1/26.5	17
12 23	9 21.42	+30 21.9	1.585	2.388	16.8	22.1
1 2	9 17.93	+31 45.7	1.497	2.374	13.6	21.8
1 12	9 10.89	+33 14.0	1.431	2.360	10.1	21.6
1 22	9 0.82	+34 36.4	1.390	2.345	7.5	21.4
2 1	8 48.89	+35 41.3	1.375	2.330	7.6	21.4
2 11	8 36.83	+36 19.9	1.386	2.316	10.6	21.5
2 21	8 26.41	+36 29.4	1.422	2.301	14.4	21.7
3 2	8 19.03	+36 12.0	1.478	2.286	18.0	21.9
359140	2009 BW_{91}		1 30.9	74.°14	0.°2/30.7	17
12 23	9 20.33	+14 15.4	1.501	2.284	18.5	21.3
1 2	9 16.15	+15 0.1	1.441	2.310	14.5	21.1
1 12	9 8.98	+16 0.3	1.402	2.335	9.8	20.9
1 22	8 59.56	+17 10.3	1.388	2.361	4.7	20.7
2 1	8 49.10	+18 22.1	1.402	2.387	0.7	20.4
2 11	8 39.03	+19 28.1	1.444	2.412	5.8	20.9
2 21	8 30.65	+20 22.4	1.512	2.437	10.5	21.2
3 2	8 24.87	+21 2.4	1.605	2.461	14.4	21.5
116782	2004 EV_{31}		1 30.9	255.°03	5.°1/27.9	18
12 23	9 23.06	+29 53.6	1.970	2.755	14.6	20.4
1 2	9 18.29	+30 34.9	1.875	2.743	11.7	20.2
1 12	9 10.56	+31 16.9	1.803	2.730	8.5	19.9
1 22	9 0.44	+31 52.6	1.757	2.717	5.7	19.8
2 1	8 48.96	+32 14.7	1.739	2.703	5.4	19.7
2 11	8 37.51	+32 18.5	1.750	2.689	8.0	19.8
2 21	8 27.43	+32 2.6	1.787	2.675	11.4	20.0
3 2	8 19.82	+31 29.1	1.848	2.661	14.7	20.2
18232	3322 T_{-1}		1 30.9	101.°97	7.°1/26.9	18
12 23	9 28.60	+36 23.3	1.981	2.758	14.9	18.3
1 2	9 22.34	+37 22.5	1.924	2.779	12.1	18.2
1 12	9 13.00	+38 15.9	1.890	2.800	9.3	18.0
1 22	9 1.42	+38 54.9	1.882	2.820	7.4	18.0
2 1	8 48.86	+39 12.5	1.902	2.840	7.4	18.0
2 11	8 36.84	+39 5.5	1.950	2.859	9.3	18.1
2 21	8 26.65	+38 35.6	2.023	2.878	11.8	18.3
3 2	8 19.21	+37 46.9	2.120	2.897	14.3	18.5
347002	2010 CC_{227}		1 30.9	253.°22	5.°2/26.2	15
12 23	9 16.06	+30 26.4	2.394	3.181	12.3	21.4
1 2	9 12.27	+31 47.4	2.312	3.180	9.8	21.3
1 12	9 6.16	+33 10.0	2.254	3.178	7.2	21.1
1 22	8 58.23	+34 27.3	2.224	3.176	5.4	21.0
2 1	8 49.27	+35 32.5	2.224	3.174	5.6	21.0
2 11	8 40.30	+36 20.3	2.252	3.173	7.6	21.1
2 21	8 32.36	+36 48.6	2.307	3.171	10.2	21.3
3 2	8 26.28	+36 57.7	2.385	3.169	12.7	21.4
492707	2014 QF_{23}		1 30.9	172.°53	3.°1/ 1.8	18
12 23	9 18.37	+ 7 38.2	1.978	2.722	15.9	22.1
1 2	9 14.11	+ 7 33.8	1.886	2.725	13.0	21.9
1 12	9 7.42	+ 7 44.7	1.815	2.727	9.5	21.7
1 22	8 58.84	+ 8 10.0	1.769	2.728	5.7	21.5
2 1	8 49.20	+ 8 47.4	1.752	2.729	3.1	21.3
2 11	8 39.60	+ 9 32.3	1.763	2.730	5.2	21.4
2 21	8 31.09	+10 20.0	1.804	2.730	8.9	21.7
3 2	8 24.56	+11 5.8	1.870	2.730	12.5	21.9

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
331193 2011 AO_{61}			1 30.9	120.°54	1.°0/30.1	18
	h m	° ′			°	m
12 23	9 16.48	+17 16.3	1.992	2.770	14.7	21.3
1 2	9 12.69	+18 0.0	1.908	2.776	11.6	21.1
1 12	9 6.48	+18 54.3	1.847	2.781	7.8	20.9
1 22	8 58.39	+19 54.6	1.812	2.785	3.7	20.7
2 1	8 49.27	+20 55.1	1.806	2.790	1.3	20.5
2 11	8 40.23	+21 49.8	1.830	2.795	5.3	20.8
2 21	8 32.32	+22 34.4	1.882	2.799	9.2	21.0
3 2	8 26.42	+23 6.6	1.959	2.804	12.7	21.2
116406 2003 YP_{136}			1 30.9	188.°74	1.°5/29.6	18
12 23	9 14.56	+18 59.8	2.423	3.197	12.5	20.1
1 2	9 10.81	+19 50.4	2.331	3.197	9.8	19.9
1 12	9 5.02	+20 49.1	2.263	3.196	6.6	19.7
1 22	8 57.64	+21 51.8	2.223	3.196	3.2	19.5
2 1	8 49.37	+22 53.3	2.213	3.195	1.7	19.4
2 11	8 41.11	+23 48.5	2.234	3.194	4.9	19.6
2 21	8 33.73	+24 33.8	2.283	3.193	8.2	19.8
3 2	8 27.97	+25 7.2	2.358	3.192	11.2	20.0
93256 Stach			1 30.9	92.°71	1.°6/29.9	18
12 23	9 19.24	+20 32.2	1.983	2.763	14.7	19.8
1 2	9 14.77	+20 55.9	1.906	2.774	11.5	19.6
1 12	9 7.81	+21 25.9	1.852	2.786	7.8	19.4
1 22	8 58.98	+21 57.9	1.825	2.797	3.8	19.2
2 1	8 49.21	+22 26.8	1.826	2.809	1.8	19.1
2 11	8 39.66	+22 48.3	1.857	2.820	5.4	19.3
2 21	8 31.39	+22 59.9	1.916	2.831	9.2	19.6
3 2	8 25.23	+23 1.0	1.999	2.842	12.6	19.8
400558 2008 WJ_{63}			1 30.9	67.°07	4.°2/28.7	18
12 23	9 21.62	+23 52.9	1.392	2.197	18.6	20.7
1 2	9 17.72	+24 50.8	1.331	2.213	14.5	20.5
1 12	9 10.37	+25 55.8	1.291	2.229	10.0	20.2
1 22	9 0.36	+26 59.2	1.275	2.245	5.6	20.0
2 1	8 49.04	+27 51.2	1.286	2.262	4.6	20.0
2 11	8 38.14	+28 24.9	1.323	2.278	8.2	20.3
2 21	8 29.19	+28 37.8	1.386	2.294	12.5	20.6
3 2	8 23.26	+28 31.4	1.470	2.311	16.4	20.8
448225 2008 VP_3			1 30.9	87.°71	7.°6/26.7	17
12 23	9 29.34	+32 56.7	1.597	2.386	17.3	21.7
1 2	9 23.47	+34 28.9	1.552	2.418	13.8	21.6
1 12	9 14.06	+35 58.0	1.529	2.448	10.4	21.4
1 22	9 2.02	+37 12.5	1.532	2.478	7.9	21.4
2 1	8 48.84	+38 2.5	1.562	2.508	8.0	21.4
2 11	8 36.31	+38 23.3	1.619	2.536	10.3	21.6
2 21	8 25.97	+38 16.2	1.701	2.564	13.3	21.9
3 2	8 18.82	+37 46.0	1.804	2.591	16.0	22.1
403826 2011 UM_{179}			1 30.9	1.°18	4.°7/ 1.9	18
12 23	9 18.62	+ 8 9.5	1.502	2.270	19.2	20.5
1 2	9 15.07	+ 7 20.8	1.418	2.269	15.8	20.3
1 12	9 8.50	+ 6 47.4	1.353	2.269	11.7	20.1
1 22	8 59.50	+ 6 30.4	1.311	2.269	7.5	19.8
2 1	8 49.15	+ 6 29.5	1.294	2.269	4.7	19.6
2 11	8 38.88	+ 6 41.6	1.304	2.270	6.8	19.8
2 21	8 30.08	+ 7 2.4	1.340	2.271	11.0	20.0
3 2	8 23.83	+ 7 26.8	1.399	2.272	15.1	20.2
117222 2004 RD_{308}			1 30.9	197.°67	1.°5/31.9	18
12 23	9 16.97	+11 42.6	2.378	3.127	13.4	20.7
1 2	9 12.63	+11 45.3	2.278	3.124	10.8	20.5
1 12	9 6.23	+11 58.4	2.202	3.122	7.6	20.3
1 22	8 58.22	+12 20.5	2.152	3.118	4.1	20.1
2 1	8 49.32	+12 48.8	2.132	3.115	1.5	19.9
2 11	8 40.44	+13 19.8	2.142	3.111	4.2	20.1
2 21	8 32.44	+13 50.3	2.182	3.106	7.7	20.3
3 2	8 26.08	+14 17.2	2.248	3.101	11.0	20.5
30815 1990 QH_2			1 30.9	94.°29	2.°3/29.7	18
12 23	9 24.15	+21 17.6	1.572	2.360	17.6	18.7
1 2	9 19.18	+21 47.1	1.507	2.379	13.8	18.5
1 12	9 11.08	+22 24.0	1.462	2.398	9.3	18.2
1 22	9 0.61	+23 2.1	1.443	2.416	4.6	18.0
2 1	8 49.03	+23 34.4	1.452	2.434	2.6	17.9
2 11	8 37.86	+23 55.6	1.490	2.452	6.6	18.2
2 21	8 28.47	+24 3.3	1.554	2.469	11.0	18.5
3 2	8 21.83	+23 57.8	1.641	2.486	14.7	18.8
110553 2001 TU_{103}			1 30.9	59.°31	1.°3/31.6	18
12 23	9 16.82	+12 42.8	1.779	2.552	16.4	19.8
1 2	9 13.13	+12 47.5	1.698	2.559	13.1	19.6
1 12	9 6.86	+13 5.4	1.639	2.566	9.2	19.3
1 22	8 58.60	+13 34.1	1.604	2.573	4.8	19.1
2 1	8 49.28	+14 9.4	1.597	2.581	1.3	18.9
2 11	8 40.11	+14 46.5	1.618	2.588	5.0	19.1
2 21	8 32.21	+15 20.9	1.667	2.596	9.3	19.4
3 2	8 26.48	+15 49.2	1.740	2.604	13.1	19.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
461694 2005 QV_{116}			1 30.9	117.°03	0.°4/30.6	18
	h m	° ′			°	m
12 23	9 18.63	+16 51.6	1.974	2.748	15.0	22.0
1 2	9 14.31	+17 13.1	1.893	2.757	11.8	21.8
1 12	9 7.53	+17 44.1	1.835	2.766	8.0	21.6
1 22	8 58.88	+18 20.8	1.802	2.775	3.8	21.4
2 1	8 49.25	+18 58.5	1.799	2.784	0.7	21.1
2 11	8 39.78	+19 32.3	1.825	2.792	5.0	21.5
2 21	8 31.53	+19 58.9	1.879	2.800	9.0	21.7
3 2	8 25.33	+20 16.2	1.959	2.808	12.5	21.9
273188 2006 HD_{106}			1 30.9	110.°33	5.°6/26.5	18
12 23	9 18.09	+31 5.2	2.156	2.945	13.4	21.0
1 2	9 14.09	+32 19.7	2.078	2.947	10.7	20.8
1 12	9 7.52	+33 34.9	2.025	2.948	7.9	20.6
1 22	8 58.93	+34 43.3	1.998	2.950	5.9	20.5
2 1	8 49.24	+35 37.7	2.000	2.951	6.0	20.5
2 11	8 39.63	+36 12.8	2.030	2.953	8.2	20.7
2 21	8 31.24	+36 26.9	2.086	2.954	10.9	20.8
3 2	8 24.99	+36 21.2	2.165	2.956	13.6	21.0
154638 2003 YT_{79}			1 30.9	55.°10	10.°0/ 1.5	18
12 23	9 31.16	+ 7 1.1	1.034	1.809	25.6	18.9
1 2	9 26.06	+ 4 26.1	0.967	1.817	21.5	18.7
1 12	9 16.59	+ 2 3.4	0.918	1.825	16.8	18.4
1 22	9 3.56	+ 0 1.7	0.889	1.834	12.3	18.2
2 1	8 48.65	− 1 30.5	0.884	1.843	10.0	18.1
2 11	8 34.15	− 2 29.2	0.903	1.853	11.8	18.2
2 21	8 22.15	− 2 56.7	0.945	1.862	15.9	18.5
3 2	8 14.08	− 3 0.4	1.006	1.872	20.2	18.8
387437 2013 WO_{55}			1 30.9	49.°80	1.°1/30.2	18
12 23	9 15.74	+18 48.5	2.096	2.876	14.0	21.0
1 2	9 11.96	+19 14.1	2.014	2.882	11.0	20.8
1 12	9 5.89	+19 47.4	1.954	2.888	7.4	20.6
1 22	8 58.09	+20 24.5	1.921	2.894	3.6	20.4
2 1	8 49.37	+21 0.7	1.916	2.900	1.3	20.2
2 11	8 40.78	+21 31.6	1.942	2.906	5.0	20.5
2 21	8 33.30	+21 54.2	1.995	2.913	8.7	20.7
3 2	8 27.70	+22 6.9	2.073	2.920	12.0	20.9
4583 Lugo			1 30.9	183.°23	1.°1/31.6	18
12 23	9 19.55	+12 4.2	2.049	2.804	15.1	17.9
1 2	9 15.03	+12 23.4	1.954	2.805	12.1	17.7
1 12	9 8.07	+12 55.7	1.882	2.805	8.5	17.5
1 22	8 59.19	+13 38.6	1.836	2.804	4.4	17.2
2 1	8 49.23	+14 28.0	1.819	2.803	1.1	17.0
2 11	8 39.27	+15 18.6	1.832	2.801	4.7	17.3
2 21	8 30.39	+16 5.8	1.875	2.799	8.8	17.5
3 2	8 23.48	+16 46.0	1.943	2.795	12.5	17.7
202316 2005 EZ_{28}			1 30.9	31.°29	4.°7/27.9	18
12 23	9 19.21	+29 20.5	2.031	2.821	14.1	19.8
1 2	9 14.95	+30 2.0	1.954	2.825	11.1	19.6
1 12	9 8.06	+30 43.8	1.900	2.828	8.0	19.4
1 22	8 59.16	+31 19.6	1.871	2.832	5.3	19.3
2 1	8 49.24	+31 43.3	1.871	2.836	5.0	19.2
2 11	8 39.53	+31 50.7	1.900	2.841	7.4	19.4
2 21	8 31.16	+31 40.9	1.955	2.845	10.5	19.6
3 2	8 25.02	+31 15.4	2.034	2.850	13.4	19.8
180709 2004 HA_{62}			1 30.9	265.°64	5.°2/ 3.4	18
12 23	9 14.59	+ 1 21.4	2.032	2.754	16.2	20.1
1 2	9 11.29	+ 1 13.0	1.921	2.738	13.7	19.9
1 12	9 5.66	+ 1 24.0	1.830	2.721	10.7	19.7
1 22	8 58.11	+ 1 55.8	1.763	2.704	7.5	19.4
2 1	8 49.36	+ 2 47.4	1.722	2.687	5.3	19.3
2 11	8 40.43	+ 3 54.9	1.711	2.670	6.2	19.3
2 21	8 32.38	+ 5 12.4	1.727	2.652	9.3	19.4
3 2	8 26.12	+ 6 33.2	1.769	2.634	12.8	19.6
443800 1995 VL_5			1 30.9	87.°14	1.°2/30.2	15
12 23	9 21.78	+16 56.0	1.441	2.231	18.8	21.7
1 2	9 17.57	+17 39.0	1.377	2.250	14.8	21.5
1 12	9 10.13	+18 35.7	1.334	2.270	10.0	21.3
1 22	9 0.23	+19 39.5	1.315	2.289	4.7	21.0
2 1	8 49.11	+20 42.4	1.324	2.308	1.5	20.8
2 11	8 38.37	+21 36.5	1.360	2.327	6.4	21.2
2 21	8 29.42	+22 17.0	1.423	2.345	11.2	21.5
3 2	8 23.27	+22 42.1	1.509	2.363	15.3	21.8
122458 2000 QV_{144}			1 30.9	217.°84	1.°6/29.9	18
12 23	9 21.00	+19 14.5	1.968	2.742	15.0	20.8
1 2	9 16.49	+19 50.2	1.869	2.734	11.9	20.6
1 12	9 9.27	+20 35.3	1.792	2.725	8.1	20.3
1 22	8 59.86	+21 25.0	1.743	2.715	4.0	20.0
2 1	8 49.15	+22 13.4	1.722	2.705	1.8	19.9
2 11	8 38.37	+22 54.5	1.731	2.694	5.8	20.1
2 21	8 28.74	+23 24.5	1.769	2.682	10.0	20.3
3 2	8 21.29	+23 41.7	1.831	2.669	13.7	20.5

407321 2010 OK_{91} 1 30.9 68.°81 0.°4/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 23.76	+18 57.9	1.681	2.460	17.0	20.3
1 2	9 18.54	+18 47.3	1.613	2.480	13.3	20.1
1 12	9 10.46	+18 43.5	1.567	2.500	9.1	19.9
1 22	9 0.28	+18 43.0	1.547	2.520	4.3	19.6
2 1	8 49.15	+18 42.0	1.555	2.539	0.7	19.4
2 11	8 38.46	+18 37.3	1.591	2.559	5.4	19.8
2 21	8 29.42	+18 27.1	1.656	2.579	9.8	20.1
3 2	8 22.90	+18 11.1	1.744	2.599	13.6	20.4

384824 2012 RA_{21} 1 30.9 185.°10 4.°0/ 2.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.07	+ 3 51.9	2.431	3.153	13.9	20.9
1 2	9 10.29	+ 3 36.2	2.334	3.153	11.5	20.7
1 12	9 4.61	+ 3 34.7	2.258	3.153	8.8	20.6
1 22	8 57.46	+ 3 47.5	2.207	3.153	5.9	20.4
2 1	8 49.50	+ 4 13.5	2.185	3.152	4.1	20.3
2 11	8 41.56	+ 4 49.9	2.192	3.152	5.0	20.3
2 21	8 34.43	+ 5 32.8	2.228	3.151	7.7	20.5
3 2	8 28.81	+ 6 18.2	2.291	3.150	10.5	20.7

179011 2001 RF_{54} 1 30.9 115.°37 10.°4/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 32.94	+45 36.9	1.934	2.697	15.6	20.2
1 2	9 26.53	+46 47.1	1.874	2.704	13.5	20.1
1 12	9 16.32	+47 45.2	1.835	2.710	11.6	20.0
1 22	9 3.22	+48 20.5	1.820	2.717	10.5	19.9
2 1	8 48.80	+48 24.6	1.831	2.723	10.8	20.0
2 11	8 35.01	+47 54.7	1.867	2.729	12.2	20.1
2 21	8 23.53	+46 54.0	1.926	2.735	14.2	20.2
3 2	8 15.45	+45 29.5	2.007	2.741	16.3	20.4

6352 Schlaun 1 30.9 262.°60 0.°3/30.7 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.89	+17 14.8	1.626	2.411	17.2	17.9
1 2	9 15.97	+17 22.7	1.541	2.411	13.6	17.6
1 12	9 9.07	+17 41.0	1.477	2.411	9.4	17.4
1 22	8 59.80	+18 5.9	1.438	2.411	4.5	17.1
2 1	8 49.22	+18 32.3	1.426	2.411	0.7	16.8
2 11	8 38.76	+18 55.2	1.442	2.411	5.8	17.2
2 21	8 29.75	+19 10.7	1.485	2.411	10.5	17.4
3 2	8 23.26	+19 17.0	1.552	2.411	14.7	17.7

170505 2003 WW_{15} 1 30.9 198.°05 0.°9/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.22	+13 8.8	2.086	2.844	14.8	21.0
1 2	9 14.78	+13 24.7	1.988	2.841	11.8	20.8
1 12	9 7.93	+13 52.4	1.913	2.837	8.2	20.5
1 22	8 59.16	+14 29.5	1.864	2.833	4.2	20.3
2 1	8 49.30	+15 12.1	1.844	2.829	0.9	20.0
2 11	8 39.43	+15 55.2	1.855	2.823	4.7	20.3
2 21	8 30.60	+16 34.8	1.894	2.817	8.8	20.5
3 2	8 23.70	+17 7.6	1.959	2.811	12.4	20.7

237491 2000 OS_{33} 1 30.9 121.°76 2.°5/ 1.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.04	+ 9 3.8	1.891	2.638	16.5	21.4
1 2	9 16.17	+ 9 6.4	1.814	2.656	13.3	21.2
1 12	9 8.79	+ 9 24.1	1.758	2.673	9.5	21.0
1 22	8 59.51	+ 9 55.1	1.727	2.690	5.4	20.8
2 1	8 49.28	+10 35.8	1.725	2.706	2.5	20.6
2 11	8 39.25	+11 21.5	1.753	2.721	5.0	20.8
2 21	8 30.50	+12 7.1	1.809	2.735	8.9	21.1
3 2	8 23.89	+12 48.6	1.891	2.749	12.5	21.3

467994 2012 TF_{164} 1 30.9 160.°67 5.°0/ 4.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.49	− 1 41.0	2.679	3.369	13.4	21.4
1 2	9 8.88	− 1 49.2	2.581	3.371	11.4	21.2
1 12	9 3.56	− 1 41.0	2.504	3.374	9.1	21.0
1 22	8 56.94	− 1 15.8	2.452	3.376	6.7	20.9
2 1	8 49.61	− 0 34.6	2.427	3.378	5.2	20.8
2 11	8 42.29	+ 0 20.0	2.432	3.380	5.5	20.8
2 21	8 35.70	+ 1 23.6	2.466	3.382	7.4	20.9
3 2	8 30.43	+ 2 31.6	2.528	3.383	9.8	21.1

297079 2010 JH_{176} 1 30.9 256.°12 4.°5/ 3.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.94	+ 1 50.9	2.501	3.213	13.7	20.4
1 2	9 9.42	+ 1 35.6	2.396	3.207	11.5	20.2
1 12	9 4.05	+ 1 35.3	2.313	3.200	9.0	20.1
1 22	8 57.22	+ 1 50.5	2.254	3.193	6.3	19.9
2 1	8 49.57	+ 2 20.6	2.224	3.185	4.6	19.8
2 11	8 41.88	+ 3 2.7	2.223	3.178	5.3	19.8
2 21	8 34.94	+ 3 53.0	2.250	3.171	7.7	19.9
3 2	8 29.42	+ 4 47.0	2.304	3.163	10.5	20.1

355365 2007 TF_{266} 1 30.9 278.°96 5.°2/ 3.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.78	+ 2 46.8	1.619	2.367	18.8	21.2
1 2	9 12.05	+ 2 43.3	1.520	2.355	15.8	20.9
1 12	9 6.53	+ 3 3.3	1.440	2.344	12.1	20.7
1 22	8 58.67	+ 3 48.0	1.382	2.333	8.1	20.4
2 1	8 49.37	+ 4 55.4	1.350	2.321	5.3	20.2
2 11	8 39.90	+ 6 19.6	1.345	2.310	6.7	20.3
2 21	8 31.58	+ 7 52.3	1.366	2.298	10.7	20.5
3 2	8 25.54	+ 9 24.7	1.412	2.287	14.9	20.7

522437 2016 CD_{318} 1 30.9 301.°32 8.°0/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.83	+35 48.8	1.898	2.693	14.7	21.2
1 2	9 16.20	+37 13.6	1.815	2.680	12.2	21.0
1 12	9 9.44	+38 36.9	1.754	2.668	9.6	20.8
1 22	9 0.08	+39 49.0	1.718	2.655	8.1	20.7
2 1	8 49.20	+40 40.6	1.710	2.643	8.5	20.7
2 11	8 38.30	+41 5.3	1.727	2.631	10.6	20.8
2 21	8 28.88	+41 2.0	1.769	2.620	13.4	20.9
3 2	8 22.10	+40 33.4	1.831	2.608	16.2	21.1

234517 2001 UP_{14} 1 30.9 127.°94 3.°6/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.94	+29 10.9	2.826	3.598	11.0	20.9
1 2	9 13.89	+29 51.8	2.750	3.612	8.6	20.8
1 12	9 6.91	+30 32.3	2.700	3.625	6.1	20.6
1 22	8 58.51	+31 8.0	2.678	3.637	4.0	20.5
2 1	8 49.43	+31 34.6	2.687	3.650	3.8	20.5
2 11	8 40.51	+31 49.1	2.725	3.661	5.7	20.6
2 21	8 32.56	+31 50.6	2.793	3.673	8.1	20.8
3 2	8 26.22	+31 39.7	2.886	3.684	10.3	21.0

414426 2009 DF_{19} 1 30.9 165.°51 2.°3/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.36	+22 21.4	2.148	2.920	14.0	22.1
1 2	9 17.16	+22 54.0	2.062	2.926	11.0	21.9
1 12	9 9.48	+23 31.8	1.999	2.930	7.5	21.7
1 22	8 59.87	+24 9.8	1.964	2.935	3.9	21.5
2 1	8 49.25	+24 42.7	1.959	2.938	2.5	21.4
2 11	8 38.75	+25 6.0	1.984	2.941	5.7	21.6
2 21	8 29.46	+25 17.5	2.037	2.943	9.3	21.8
3 2	8 22.25	+25 16.9	2.116	2.945	12.5	22.0

233591 2007 RS_{103} 1 30.9 91.°05 7.°3/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 24.99	+39 42.3	2.321	3.092	13.1	20.2
1 2	9 19.32	+40 35.1	2.257	3.103	10.9	20.1
1 12	9 10.92	+41 20.8	2.215	3.113	8.7	20.0
1 22	9 0.52	+41 52.0	2.200	3.124	7.4	19.9
2 1	8 49.18	+42 2.8	2.212	3.134	7.5	19.9
2 11	8 38.21	+41 50.6	2.252	3.145	9.1	20.1
2 21	8 28.79	+41 16.4	2.318	3.155	11.2	20.2
3 2	8 21.76	+40 23.9	2.406	3.165	13.3	20.4

86868 2000 HA_{20} 1 30.9 152.°03 1.°6/31.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.60	+10 24.7	1.866	2.622	16.4	20.2
1 2	9 15.25	+10 48.9	1.780	2.630	13.1	20.0
1 12	9 8.32	+11 29.0	1.716	2.637	9.2	19.8
1 22	8 59.37	+12 22.3	1.677	2.644	4.9	19.6
2 1	8 49.31	+13 24.0	1.667	2.651	1.6	19.3
2 11	8 39.33	+14 27.9	1.687	2.656	5.0	19.6
2 21	8 30.57	+15 28.3	1.735	2.661	9.2	19.8
3 2	8 23.94	+16 20.8	1.809	2.665	13.0	20.1

417170 2005 WQ_{71} 1 30.9 96.°96 4.°2/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.98	+27 56.0	2.196	2.973	13.6	21.6
1 2	9 17.48	+28 56.0	2.137	3.001	10.6	21.4
1 12	9 9.54	+29 56.7	2.102	3.029	7.5	21.3
1 22	8 59.82	+30 51.7	2.095	3.056	4.8	21.1
2 1	8 49.28	+31 34.8	2.117	3.082	4.5	21.2
2 11	8 39.09	+32 1.8	2.170	3.107	6.8	21.4
2 21	8 30.25	+32 11.7	2.250	3.132	9.6	21.6
3 2	8 23.55	+32 5.9	2.355	3.157	12.3	21.8

289846 2005 LR_{43} 1 30.9 263.°18 5.°0/ 2.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.14	+ 3 40.0	2.481	3.191	13.9	20.3
1 2	9 13.43	+ 2 41.5	2.380	3.189	11.6	20.1
1 12	9 6.73	+ 1 54.1	2.301	3.186	9.1	19.9
1 22	8 58.51	+ 1 19.2	2.248	3.184	6.5	19.8
2 1	8 49.44	+ 0 57.7	2.224	3.181	5.0	19.7
2 11	8 40.39	+ 0 48.7	2.230	3.179	5.8	19.7
2 21	8 32.17	+ 0 50.3	2.265	3.177	8.2	19.9
3 2	8 25.51	+ 0 59.5	2.326	3.174	10.8	20.0

32752 1981 EZ_{13} 1 30.9 331.°88 4.°3/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.33	+27 36.9	1.487	2.293	17.6	19.0
1 2	9 17.77	+27 42.8	1.397	2.278	14.1	18.7
1 12	9 10.70	+27 48.9	1.327	2.263	10.0	18.4
1 22	9 0.74	+27 48.9	1.280	2.249	5.8	18.2
2 1	8 49.16	+27 35.8	1.260	2.236	4.5	18.0
2 11	8 37.68	+27 5.5	1.266	2.224	8.1	18.2
2 21	8 27.95	+26 18.1	1.297	2.213	12.7	18.4
3 2	8 21.25	+25 16.6	1.351	2.202	16.9	18.7

224606 2005 YR_{46} 1 30.9 222.°48 1.°0/31.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.20	+13 46.9	2.070	2.834	14.7	20.4
1 2	9 13.17	+13 46.5	1.976	2.833	11.7	20.2
1 12	9 6.81	+13 56.5	1.905	2.831	8.2	19.9
1 22	8 58.63	+14 14.6	1.860	2.829	4.2	19.7
2 1	8 49.44	+14 37.8	1.843	2.827	1.1	19.4
2 11	8 40.30	+15 2.3	1.856	2.825	4.6	19.7
2 21	8 32.22	+15 24.6	1.897	2.823	8.6	19.9
3 2	8 26.04	+15 42.2	1.964	2.821	12.1	20.1

394028 2005 WE_{20} 1 30.9 93.°66 0.°1/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 23.10	+15 41.1	1.511	2.292	18.5	21.3
1 2	9 18.43	+15 53.6	1.444	2.310	14.6	21.1
1 12	9 10.65	+16 18.6	1.397	2.329	10.0	20.9
1 22	9 0.51	+16 51.9	1.374	2.347	4.8	20.7
2 1	8 49.22	+17 27.7	1.380	2.365	0.6	20.4
2 11	8 38.30	+18 0.1	1.413	2.382	5.8	20.8
2 21	8 29.11	+18 25.0	1.473	2.399	10.6	21.1
3 2	8 22.63	+18 40.4	1.557	2.415	14.7	21.4

34779 Chungchiyung 1 30.9 314.°14 3.°5/ 1.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.98	+ 7 37.1	1.407	2.185	19.8	18.6
1 2	9 12.61	+ 7 36.4	1.317	2.177	16.2	18.4
1 12	9 7.12	+ 7 57.7	1.246	2.169	11.9	18.1
1 22	8 59.04	+ 8 40.5	1.198	2.161	7.1	17.8
2 1	8 49.38	+ 9 41.1	1.174	2.154	3.6	17.6
2 11	8 39.63	+10 52.6	1.176	2.147	6.4	17.7
2 21	8 31.28	+12 6.4	1.204	2.141	11.4	18.0
3 2	8 25.55	+13 15.0	1.255	2.134	16.0	18.2

91732 1999 TK_{164} 1 30.9 157.°19 4.°0/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.79	+28 7.3	2.096	2.878	13.9	19.2
1 2	9 16.88	+28 35.8	2.012	2.879	11.0	19.0
1 12	9 9.36	+29 4.9	1.952	2.881	7.8	18.8
1 22	8 59.85	+29 28.9	1.918	2.882	4.8	18.6
2 1	8 49.30	+29 42.3	1.913	2.883	4.2	18.6
2 11	8 38.95	+29 41.4	1.937	2.884	6.8	18.7
2 21	8 29.92	+29 25.5	1.989	2.884	10.0	18.9
3 2	8 23.10	+28 55.8	2.065	2.885	13.1	19.1

349096 2007 ED_{102} 1 30.9 331.°15 2.°5/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.68	+19 39.4	1.300	2.110	19.4	20.9
1 2	9 15.15	+20 21.2	1.220	2.105	15.3	20.6
1 12	9 9.07	+21 16.5	1.159	2.100	10.5	20.3
1 22	9 0.03	+22 18.7	1.122	2.096	5.2	20.0
2 1	8 49.26	+23 18.5	1.109	2.092	2.9	19.8
2 11	8 38.52	+24 6.8	1.123	2.088	7.7	20.1
2 21	8 29.54	+24 38.0	1.161	2.084	13.0	20.4
3 2	8 23.63	+24 50.6	1.220	2.082	17.7	20.6

166795 2002 VV_{49} 1 30.9 48.°31 9.°1/22.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.15	+41 10.0	2.156	2.938	13.6	19.1
1 2	9 16.25	+43 6.4	2.096	2.943	11.5	19.0
1 12	9 9.34	+44 56.6	2.060	2.948	9.8	18.9
1 22	9 0.00	+46 30.6	2.050	2.953	9.1	18.8
2 1	8 49.28	+47 39.9	2.066	2.959	9.7	18.9
2 11	8 38.62	+48 19.4	2.109	2.965	11.3	19.0
2 21	8 29.42	+48 29.2	2.174	2.970	13.2	19.1
3 2	8 22.77	+48 12.6	2.259	2.976	15.2	19.3

204152 2003 YZ_{138} 1 30.9 353.°88 0.°7/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.14	+14 11.5	1.490	2.292	17.7	20.0
1 2	9 8.58	+14 20.3	1.405	2.284	14.1	19.7
1 12	9 4.20	+14 43.8	1.340	2.277	9.8	19.5
1 22	8 57.55	+15 19.3	1.298	2.271	4.9	19.2
2 1	8 49.59	+16 1.8	1.282	2.267	0.8	18.9
2 11	8 41.68	+16 45.2	1.292	2.264	5.7	19.2
2 21	8 35.10	+17 23.7	1.327	2.263	10.6	19.5
3 2	8 30.90	+17 53.2	1.385	2.263	14.9	19.7

490544 2009 VW_{68} 1 30.9 46.°08 3.°5/ 1.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.98	+10 39.8	1.192	1.985	21.8	21.0
1 2	9 16.73	+10 8.9	1.127	1.996	17.7	20.8
1 12	9 9.92	+ 9 56.3	1.079	2.007	12.7	20.5
1 22	9 0.31	+10 1.2	1.053	2.020	7.3	20.3
2 1	8 49.27	+10 20.7	1.051	2.032	3.5	20.1
2 11	8 38.58	+10 48.9	1.074	2.045	6.8	20.3
2 21	8 29.85	+11 19.7	1.122	2.059	12.0	20.6
3 2	8 24.23	+11 48.0	1.192	2.072	16.6	21.0

432965 2012 JO_{50} 1 30.9 49.°26 11.°8/ 8.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.21	−14 24.9	1.949	2.582	19.3	21.6
1 2	9 11.03	−15 37.6	1.865	2.586	17.5	21.4
1 12	9 5.48	−16 24.2	1.797	2.590	15.5	21.3
1 22	8 58.04	−16 39.5	1.748	2.594	13.6	21.2
2 1	8 49.55	−16 20.1	1.720	2.598	12.2	21.1
2 11	8 41.05	−15 27.2	1.716	2.602	11.8	21.1
2 21	8 33.59	−14 5.9	1.736	2.606	12.7	21.1
3 2	8 28.07	−12 24.6	1.779	2.610	14.4	21.2

466504 2014 AX_{20} 1 30.9 68.°93 4.°4/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.38	+27 29.0	2.215	3.004	13.1	20.8
1 2	9 12.60	+28 39.1	2.138	3.009	10.3	20.6
1 12	9 6.46	+29 52.4	2.084	3.014	7.3	20.4
1 22	8 58.48	+31 2.0	2.058	3.019	4.9	20.3
2 1	8 49.51	+32 1.4	2.061	3.024	4.7	20.3
2 11	8 40.62	+32 45.3	2.092	3.029	7.1	20.4
2 21	8 32.83	+33 11.2	2.151	3.034	10.0	20.6
3 2	8 27.00	+33 19.5	2.234	3.039	12.7	20.8

200855 2001 YB_{58} 1 30.9 86.°09 0.°9/30.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 23.97	+17 45.0	1.546	2.328	18.1	21.0
1 2	9 18.99	+18 9.0	1.484	2.353	14.2	20.8
1 12	9 10.94	+18 43.5	1.444	2.377	9.6	20.6
1 22	9 0.63	+19 23.3	1.428	2.401	4.5	20.4
2 1	8 49.26	+20 1.9	1.441	2.425	1.2	20.2
2 11	8 38.36	+20 33.4	1.481	2.448	6.0	20.6
2 21	8 29.21	+20 54.5	1.549	2.471	10.5	20.9
3 2	8 22.77	+21 4.2	1.641	2.493	14.4	21.2

194055 2001 SS_{118} 1 30.9 81.°11 2.°9/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 25.70	+23 31.8	1.441	2.236	18.6	20.7
1 2	9 20.83	+23 45.8	1.373	2.248	14.6	20.5
1 12	9 12.48	+24 4.6	1.325	2.261	10.0	20.2
1 22	9 1.46	+24 21.9	1.301	2.273	5.2	20.0
2 1	8 49.17	+24 31.0	1.305	2.285	3.1	19.9
2 11	8 37.33	+24 27.3	1.336	2.298	7.2	20.2
2 21	8 27.48	+24 9.9	1.392	2.310	11.8	20.5
3 2	8 20.67	+23 40.4	1.472	2.322	15.9	20.7

213848 2003 ST_{54} 1 30.9 49.°49 0.°8/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.55	+15 43.9	1.468	2.256	18.6	19.8
1 2	9 16.62	+15 32.9	1.395	2.265	14.8	19.5
1 12	9 9.55	+15 33.1	1.342	2.275	10.2	19.3
1 22	9 0.06	+15 41.9	1.313	2.285	5.1	19.0
2 1	8 49.34	+15 54.9	1.310	2.295	0.9	18.7
2 11	8 38.91	+16 7.6	1.335	2.305	5.8	19.1
2 21	8 30.15	+16 16.5	1.386	2.316	10.7	19.4
3 2	8 24.09	+16 19.4	1.460	2.327	14.9	19.7

184039 2004 FG_{82} 1 30.9 148.°80 4.°4/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.86	+28 8.9	2.185	2.965	13.5	20.5
1 2	9 16.88	+29 8.7	2.108	2.973	10.7	20.4
1 12	9 9.36	+30 10.4	2.054	2.981	7.6	20.2
1 22	8 59.88	+31 7.2	2.029	2.989	5.0	20.0
2 1	8 49.37	+31 52.6	2.032	2.996	4.7	20.0
2 11	8 39.01	+32 21.8	2.065	3.003	7.1	20.2
2 21	8 29.91	+32 33.1	2.126	3.009	10.1	20.4
3 2	8 22.94	+32 27.5	2.211	3.014	12.9	20.6

403604 2010 RZ_{37} 1 30.9 39.°59 6.°7/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 27.07	+32 3.8	1.307	2.115	19.4	19.5
1 2	9 22.13	+32 34.7	1.261	2.140	15.5	19.3
1 12	9 13.33	+33 1.5	1.235	2.165	11.2	19.1
1 22	9 1.78	+33 14.7	1.232	2.191	7.6	19.0
2 1	8 49.18	+33 6.6	1.254	2.218	6.9	19.0
2 11	8 37.51	+32 34.8	1.302	2.245	9.7	19.3
2 21	8 28.33	+31 42.2	1.374	2.273	13.4	19.5
3 2	8 22.56	+30 34.4	1.468	2.302	16.8	19.8

191778 2004 TA_{86} 1 30.9 211.°96 0.°9/31.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.80	+12 57.0	2.367	3.121	13.3	21.8
1 2	9 12.62	+13 11.1	2.265	3.116	10.7	21.6
1 12	9 6.35	+13 35.6	2.186	3.110	7.4	21.4
1 22	8 58.43	+14 8.6	2.134	3.103	3.8	21.2
2 1	8 49.58	+14 46.7	2.112	3.096	0.9	20.9
2 11	8 40.70	+15 25.9	2.120	3.089	4.2	21.2
2 21	8 32.68	+16 2.5	2.158	3.081	7.8	21.4
3 2	8 26.32	+16 33.8	2.222	3.073	11.1	21.6

138038 2000 DV_{18} 1 30.9 176.°47 1.°3/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 23.30	+21 0.9	2.175	2.941	14.0	20.1
1 2	9 17.86	+21 8.7	2.083	2.944	11.0	19.9
1 12	9 9.96	+21 21.2	2.015	2.945	7.5	19.7
1 22	9 0.16	+21 34.5	1.974	2.946	3.7	19.5
2 1	8 49.37	+21 44.7	1.964	2.947	1.5	19.3
2 11	8 38.71	+21 48.4	1.984	2.947	5.1	19.6
2 21	8 29.25	+21 43.9	2.033	2.946	8.9	19.8
3 2	8 21.83	+21 31.0	2.108	2.945	12.2	20.0

397068 2005 UU_{161} 1 30.9 88.°54 4.°6/28.5 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 25.06	+25 2.3	1.465	2.262	18.2	21.0
1 2	9 20.29	+26 5.5	1.407	2.284	14.3	20.8
1 12	9 12.10	+27 14.2	1.370	2.305	9.9	20.6
1 22	9 1.29	+28 19.1	1.359	2.326	5.8	20.5
2 1	8 49.25	+29 10.6	1.374	2.347	5.0	20.5
2 11	8 37.69	+29 42.2	1.417	2.367	8.3	20.7
2 21	8 28.12	+29 52.3	1.485	2.387	12.4	21.0
3 2	8 21.56	+29 42.8	1.576	2.406	16.0	21.3

107740 2001 FN_{32} 1 30.9 299.°27 0.°6/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.58	+12 55.5	1.656	2.437	17.1	20.2
1 2	9 12.65	+13 23.7	1.563	2.430	13.7	20.0
1 12	9 6.92	+14 8.3	1.492	2.423	9.5	19.7
1 22	8 58.90	+15 6.3	1.445	2.416	4.8	19.4
2 1	8 49.52	+16 11.8	1.425	2.410	0.7	19.1
2 11	8 40.08	+17 17.6	1.433	2.403	5.5	19.4
2 21	8 31.87	+18 17.3	1.468	2.397	10.3	19.7
3 2	8 25.98	+19 6.2	1.526	2.391	14.6	19.9

126808 2002 ED_{40} 1 30.9 112.°86 1.°2/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.66	+19 23.9	2.123	2.897	14.0	20.0
1 2	9 14.23	+19 48.0	2.042	2.907	11.0	19.9
1 12	9 7.47	+20 19.1	1.984	2.917	7.5	19.7
1 22	8 58.96	+20 53.1	1.953	2.926	3.6	19.4
2 1	8 49.54	+21 25.4	1.952	2.935	1.4	19.3
2 11	8 40.28	+21 51.7	1.980	2.944	5.0	19.5
2 21	8 32.18	+22 9.4	2.037	2.953	8.7	19.8
3 2	8 26.01	+22 17.3	2.119	2.961	12.0	20.0

30466 2000 OP_{14} 1 30.9 101.°49 0.°2/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.83	+13 36.4	2.473	3.233	12.7	18.9
1 2	9 10.12	+14 15.7	2.387	3.242	10.0	18.7
1 12	9 4.53	+15 5.6	2.325	3.251	6.9	18.5
1 22	8 57.50	+16 3.1	2.290	3.261	3.4	18.3
2 1	8 49.72	+17 3.9	2.285	3.270	0.4	18.1
2 11	8 42.00	+18 3.2	2.311	3.279	4.0	18.4
2 21	8 35.13	+18 57.1	2.366	3.288	7.4	18.6
3 2	8 29.78	+19 42.7	2.448	3.296	10.3	18.8

426848 2013 VF_{19} 1 30.9 46.°03 0.°1/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.14	+15 3.0	1.735	2.516	16.5	20.3
1 2	9 13.24	+15 35.9	1.680	2.547	12.9	20.1
1 12	9 6.84	+16 20.8	1.647	2.579	8.7	19.9
1 22	8 58.62	+17 13.0	1.639	2.612	4.1	19.7
2 1	8 49.60	+18 6.5	1.659	2.644	0.6	19.5
2 11	8 40.97	+18 55.6	1.709	2.677	5.0	19.9
2 21	8 33.76	+19 36.2	1.785	2.710	9.1	20.2
3 2	8 28.72	+20 5.9	1.886	2.743	12.6	20.5

155783 2000 SH_{338} 1 30.9 18.°57 6.°1/27.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.12	+25 28.2	1.310	2.136	18.4	18.1
1 2	9 11.50	+27 9.5	1.252	2.145	14.4	17.9
1 12	9 6.47	+28 59.0	1.215	2.155	10.2	17.6
1 22	8 58.74	+30 45.1	1.201	2.167	6.7	17.5
2 1	8 49.57	+32 15.3	1.213	2.180	6.7	17.5
2 11	8 40.67	+33 20.0	1.251	2.194	10.0	17.7
2 21	8 33.59	+33 55.8	1.311	2.210	13.9	18.0
3 2	8 29.45	+34 3.9	1.392	2.226	17.5	18.3

412735 2014 OD_{355} 1 30.9 150.°85 0.°6/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 19.90	+13 27.1	2.040	2.799	15.1	23.0
1 2	9 15.28	+13 49.6	1.954	2.808	12.0	22.8
1 12	9 8.26	+14 24.1	1.891	2.816	8.3	22.6
1 22	8 59.38	+15 7.6	1.853	2.824	4.1	22.4
2 1	8 49.50	+15 55.5	1.846	2.831	0.7	22.1
2 11	8 39.72	+16 42.7	1.868	2.837	4.7	22.4
2 21	8 31.08	+17 24.8	1.920	2.843	8.7	22.7
3 2	8 24.42	+17 59.1	1.997	2.848	12.2	22.9

463270 2012 GG_{25} 1 30.9 226.°57 2.°2/ 1.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.40	+ 8 25.0	2.602	3.334	12.8	22.7
1 2	9 12.16	+ 8 35.9	2.489	3.322	10.4	22.6
1 12	9 5.98	+ 8 59.1	2.398	3.308	7.6	22.3
1 22	8 58.27	+ 9 33.5	2.334	3.294	4.4	22.1
2 1	8 49.64	+10 16.8	2.300	3.279	2.2	21.9
2 11	8 40.90	+11 5.5	2.297	3.264	4.1	22.0
2 21	8 32.87	+11 55.4	2.324	3.248	7.3	22.2
3 2	8 26.29	+12 43.1	2.378	3.231	10.5	22.4

340686 2006 RX_{101} 1 30.9 116.°70 9.°3/23.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 32.81	+52 7.0	2.812	3.536	12.1	21.1
1 2	9 25.55	+53 13.4	2.763	3.550	10.8	21.0
1 12	9 15.23	+54 6.5	2.736	3.564	9.8	21.0
1 22	9 2.67	+54 38.9	2.734	3.577	9.3	21.0
2 1	8 49.13	+54 45.3	2.758	3.591	9.6	21.0
2 11	8 36.14	+54 23.9	2.806	3.604	10.5	21.1
2 21	8 25.00	+53 37.2	2.879	3.616	11.7	21.2
3 2	8 16.64	+52 29.9	2.971	3.629	13.0	21.3

325028 2008 CJ_{42} 1 30.9 38.°27 2.°4/ 1.2 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.02	+11 7.0	1.466	2.248	18.9	21.6
1 2	9 13.81	+10 57.4	1.395	2.259	15.2	21.3
1 12	9 7.64	+11 4.0	1.343	2.270	10.8	21.1
1 22	8 59.18	+11 25.1	1.314	2.282	5.9	20.9
2 1	8 49.54	+11 56.9	1.312	2.294	2.4	20.7
2 11	8 40.16	+12 33.7	1.336	2.307	5.7	20.9
2 21	8 32.32	+13 10.1	1.387	2.321	10.4	21.2
3 2	8 27.01	+13 41.7	1.460	2.334	14.5	21.5

452460 2003 UY_{119} 1 30.9 95.°04 0.°8/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 21.26	+13 44.8	1.751	2.519	16.8	21.7
1 2	9 16.57	+13 56.3	1.681	2.540	13.3	21.5
1 12	9 9.20	+14 20.3	1.632	2.560	9.2	21.3
1 22	8 59.82	+14 53.6	1.609	2.579	4.6	21.1
2 1	8 49.48	+15 31.3	1.614	2.599	0.9	20.9
2 11	8 39.42	+16 8.4	1.648	2.618	5.1	21.2
2 21	8 30.81	+16 40.5	1.710	2.636	9.4	21.5
3 2	8 24.50	+17 5.1	1.797	2.654	13.1	21.8

152249 2005 SF_{97} 1 30.9 52.°89 0.°2/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 23.08	+18 28.6	1.743	2.520	16.6	20.0
1 2	9 18.13	+18 4.4	1.662	2.527	13.1	19.8
1 12	9 10.34	+17 46.1	1.604	2.535	9.0	19.6
1 22	9 0.41	+17 31.4	1.570	2.543	4.4	19.3
2 1	8 49.41	+17 17.2	1.566	2.551	0.5	19.0
2 11	8 38.68	+17 1.1	1.590	2.559	5.3	19.4
2 21	8 29.47	+16 41.7	1.642	2.567	9.7	19.7
3 2	8 22.69	+16 18.6	1.719	2.576	13.6	19.9

237237 2008 WE_{12} 1 30.9 205.°65 0.°6/31.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.42	+13 47.3	2.321	3.082	13.4	21.0
1 2	9 11.57	+14 2.8	2.225	3.080	10.6	20.9
1 12	9 5.64	+14 28.5	2.153	3.079	7.4	20.6
1 22	8 58.11	+15 2.1	2.107	3.077	3.7	20.4
2 1	8 49.68	+15 39.9	2.090	3.075	0.7	20.2
2 11	8 41.28	+16 18.0	2.103	3.072	4.2	20.4
2 21	8 33.77	+16 52.8	2.146	3.070	7.8	20.6
3 2	8 27.92	+17 21.6	2.214	3.068	11.1	20.9

130630 2000 SB_{57} 1 30.9 37.°09 3.°0/ 1.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.57	+ 9 25.1	1.341	2.126	20.2	19.9
1 2	9 13.76	+ 9 18.2	1.270	2.135	16.4	19.6
1 12	9 7.79	+ 9 31.1	1.218	2.144	11.8	19.4
1 22	8 59.32	+10 2.3	1.188	2.154	6.7	19.1
2 1	8 49.54	+10 47.6	1.183	2.164	3.1	19.0
2 11	8 39.98	+11 40.1	1.204	2.175	6.2	19.2
2 21	8 32.05	+12 32.7	1.251	2.187	11.0	19.5
3 2	8 26.85	+13 19.7	1.320	2.199	15.4	19.8

336538 2009 AG_{32} 1 30.9 66.°73 0.°3/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.27	+14 48.7	2.193	2.961	13.9	21.2
1 2	9 11.45	+15 8.6	2.115	2.974	10.9	21.0
1 12	9 5.52	+15 38.4	2.058	2.987	7.5	20.8
1 22	8 58.01	+16 15.0	2.029	3.000	3.7	20.6
2 1	8 49.71	+16 54.6	2.028	3.013	0.4	20.3
2 11	8 41.54	+17 32.7	2.058	3.026	4.3	20.7
2 21	8 34.41	+18 5.9	2.115	3.040	8.0	20.9
3 2	8 29.02	+18 31.9	2.199	3.053	11.2	21.1

411351 2010 UO_{76} 1 30.9 73.°32 6.°8/ 3.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 19.14	+ 0 16.7	1.779	2.497	18.3	20.9
1 2	9 14.80	− 0 34.2	1.709	2.519	15.4	20.7
1 12	9 7.95	− 1 5.1	1.658	2.540	12.2	20.6
1 22	8 59.22	− 1 14.1	1.630	2.561	9.0	20.4
2 1	8 49.56	− 1 1.1	1.628	2.582	6.9	20.3
2 11	8 40.15	− 0 29.3	1.654	2.602	7.5	20.4
2 21	8 32.06	+ 0 15.7	1.706	2.623	10.0	20.6
3 2	8 26.10	+ 1 7.8	1.783	2.644	13.0	20.8

312932 2011 WV_{69} 1 30.9 70.°80 0.°5/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 21.42	+15 57.0	1.547	2.330	18.0	20.6
1 2	9 17.15	+15 51.8	1.474	2.342	14.3	20.4
1 12	9 9.86	+15 57.6	1.422	2.354	9.8	20.2
1 22	9 0.24	+16 11.1	1.393	2.365	4.9	19.9
2 1	8 49.45	+16 28.1	1.392	2.377	0.7	19.6
2 11	8 38.95	+16 43.8	1.419	2.389	5.6	20.0
2 21	8 30.07	+16 54.9	1.472	2.401	10.4	20.3
3 2	8 23.80	+16 59.3	1.550	2.413	14.5	20.6

14369 1988 UV 1 30.9 59.°23 6.°0/ 3.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.71	+ 3 30.9	1.365	2.125	21.1	18.3
1 2	9 14.58	+ 2 59.9	1.293	2.135	17.6	18.1
1 12	9 8.32	+ 2 52.4	1.238	2.145	13.4	17.9
1 22	8 59.58	+ 3 10.0	1.205	2.155	9.1	17.7
2 1	8 49.52	+ 3 50.9	1.196	2.166	6.1	17.5
2 11	8 39.64	+ 4 49.2	1.213	2.177	7.5	17.6
2 21	8 31.37	+ 5 57.0	1.255	2.188	11.4	17.9
3 2	8 25.77	+ 7 6.0	1.320	2.199	15.5	18.2

394801 2008 RY_{43} 1 30.9 158.°37 0.°5/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 21.43	+13 56.9	1.787	2.553	16.6	22.1
1 2	9 16.89	+14 18.2	1.701	2.560	13.2	21.9
1 12	9 9.60	+14 52.9	1.638	2.566	9.1	21.6
1 22	9 0.12	+15 37.3	1.600	2.571	4.5	21.4
2 1	8 49.46	+16 26.4	1.590	2.575	0.6	21.1
2 11	8 38.88	+17 14.1	1.610	2.579	5.3	21.4
2 21	8 29.64	+17 55.6	1.658	2.583	9.7	21.7
3 2	8 22.69	+18 27.9	1.731	2.585	13.7	21.9

468767 2011 NW_1 1 30.9 180.°71 2.°2/ 1.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.00	+ 8 15.9	3.208	3.930	10.8	22.9
1 2	9 10.54	+ 8 6.0	3.106	3.931	8.8	22.7
1 12	9 4.57	+ 8 4.8	3.027	3.932	6.4	22.6
1 22	8 57.48	+ 8 11.7	2.976	3.932	3.9	22.4
2 1	8 49.79	+ 8 25.5	2.955	3.931	2.3	22.3
2 11	8 42.11	+ 8 44.2	2.966	3.931	3.5	22.4
2 21	8 35.07	+ 9 5.5	3.008	3.929	6.0	22.5
3 2	8 29.18	+ 9 27.2	3.078	3.928	8.4	22.7

520746 2014 QR_{474} 1 30.9 56.°80 0.°1/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.14	+14 33.9	1.772	2.551	16.2	21.4
1 2	9 12.77	+15 5.7	1.690	2.557	12.8	21.1
1 12	9 6.78	+15 51.2	1.630	2.562	8.8	20.9
1 22	8 58.76	+16 46.2	1.596	2.568	4.3	20.6
2 1	8 49.62	+17 45.1	1.589	2.574	0.5	20.4
2 11	8 40.59	+18 41.4	1.611	2.580	5.2	20.7
2 21	8 32.80	+19 30.1	1.660	2.586	9.6	21.0
3 2	8 27.19	+20 7.7	1.734	2.592	13.4	21.2

163588 2002 TR_{191} 1 30.9 33.°03 7.°7/ 4.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.21	− 1 18.4	1.908	2.619	17.5	19.1
1 2	9 12.45	− 2 31.9	1.830	2.630	15.0	18.9
1 12	9 6.35	− 3 27.2	1.772	2.642	12.2	18.8
1 22	8 58.48	− 4 1.2	1.736	2.654	9.5	18.6
2 1	8 49.67	− 4 12.4	1.726	2.667	7.8	18.6
2 11	8 40.99	− 4 2.3	1.743	2.680	8.2	18.6
2 21	8 33.44	− 3 34.9	1.786	2.694	10.2	18.8
3 2	8 27.84	− 2 55.8	1.853	2.708	12.8	19.0

154346 2002 XP 1 30.9 122.°89 1.°8/ 1.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.54	+ 9 46.1	1.721	2.477	17.5	21.3
1 2	9 16.91	+10 11.9	1.645	2.494	14.1	21.1
1 12	9 9.54	+10 55.2	1.590	2.511	9.9	20.9
1 22	9 0.06	+11 52.8	1.561	2.528	5.3	20.6
2 1	8 49.48	+12 59.3	1.560	2.543	1.8	20.4
2 11	8 39.10	+14 7.8	1.588	2.558	5.2	20.7
2 21	8 30.12	+15 12.1	1.645	2.572	9.6	21.0
3 2	8 23.48	+16 7.5	1.727	2.585	13.5	21.2

302409 2002 CS_{156} 1 30.9 19.°48 1.°3/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.70	+16 41.5	1.542	2.334	17.7	20.6
1 2	9 14.54	+17 28.7	1.460	2.334	14.0	20.4
1 12	9 8.33	+18 30.9	1.398	2.334	9.5	20.1
1 22	8 59.64	+19 42.4	1.361	2.335	4.6	19.8
2 1	8 49.53	+20 55.3	1.351	2.335	1.6	19.6
2 11	8 39.46	+22 1.2	1.369	2.335	6.4	19.9
2 21	8 30.83	+22 53.8	1.413	2.335	11.2	20.2
3 2	8 24.78	+23 30.4	1.480	2.336	15.5	20.4

109342 2001 QR_{148} 1 30.9 83.°59 7.°5/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 24.37	+40 32.1	2.356	3.126	12.9	19.8
1 2	9 18.88	+41 36.1	2.299	3.142	10.8	19.7
1 12	9 10.70	+42 32.6	2.265	3.159	8.8	19.6
1 22	9 0.53	+43 14.0	2.258	3.175	7.6	19.5
2 1	8 49.45	+43 34.5	2.278	3.192	7.8	19.6
2 11	8 38.74	+43 31.2	2.325	3.208	9.3	19.7
2 21	8 29.56	+43 5.3	2.398	3.224	11.2	19.8
3 2	8 22.73	+42 20.3	2.493	3.240	13.2	20.0

81861 2000 KK_{71} 1 30.9 127.°63 1.°6/ 1.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.62	+ 8 50.9	2.442	3.177	13.5	20.1
1 2	9 13.02	+ 9 25.1	2.359	3.196	10.8	20.0
1 12	9 6.47	+10 12.7	2.299	3.213	7.6	19.8
1 22	8 58.46	+11 11.4	2.266	3.230	4.2	19.6
2 1	8 49.70	+12 17.0	2.264	3.246	1.6	19.4
2 11	8 41.04	+13 24.8	2.293	3.262	4.0	19.6
2 21	8 33.30	+14 30.0	2.353	3.277	7.3	19.9
3 2	8 27.16	+15 28.9	2.440	3.291	10.3	20.1

281334 2007 TD_{336} 1 30.9 165.°89 0.°5/31.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.12	+14 26.8	2.494	3.251	12.7	21.7
1 2	9 11.92	+14 37.6	2.400	3.253	10.0	21.5
1 12	9 5.78	+14 56.9	2.330	3.256	6.9	21.3
1 22	8 58.15	+15 22.6	2.287	3.258	3.5	21.1
2 1	8 49.73	+15 51.7	2.274	3.259	0.6	20.9
2 11	8 41.37	+16 20.6	2.292	3.261	3.9	21.1
2 21	8 33.87	+16 46.5	2.339	3.262	7.4	21.3
3 2	8 27.93	+17 7.1	2.413	3.263	10.4	21.5

36244 1999 VJ_{85} 1 30.9 166.°34 8.°1/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 34.99	+41 16.7	2.223	2.978	14.1	19.0
1 2	9 27.49	+42 12.6	2.151	2.984	11.8	18.9
1 12	9 16.73	+43 0.0	2.101	2.990	9.6	18.7
1 22	9 3.50	+43 29.9	2.077	2.994	8.2	18.6
2 1	8 49.10	+43 35.2	2.082	2.998	8.4	18.7
2 11	8 35.16	+43 12.7	2.116	3.001	9.9	18.8
2 21	8 23.09	+42 24.6	2.175	3.003	12.1	18.9
3 2	8 13.94	+41 16.2	2.258	3.004	14.4	19.1

291077 2005 YG_{120} 1 30.9 179.°22 1.°4/31.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.28	+12 0.4	2.289	3.041	13.8	21.4
1 2	9 13.02	+12 3.4	2.194	3.042	11.1	21.2
1 12	9 6.63	+12 17.2	2.122	3.043	7.8	21.0
1 22	8 58.61	+12 39.8	2.076	3.043	4.2	20.8
2 1	8 49.68	+13 8.6	2.060	3.043	1.4	20.6
2 11	8 40.80	+13 39.8	2.074	3.043	4.3	20.8
2 21	8 32.85	+14 10.1	2.117	3.042	7.9	21.0
3 2	8 26.61	+14 36.5	2.186	3.041	11.2	21.2

455322 2002 NX_{18} 1 30.9 32.°21 1.°6/31.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 38.70	+ 9 32.1	0.862	1.651	28.6	19.3
1 2	9 30.31	+10 21.6	0.862	1.729	21.9	19.2
1 12	9 18.03	+11 34.1	0.878	1.808	14.6	19.1
1 22	9 3.60	+12 59.1	0.915	1.886	7.2	19.0
2 1	8 49.19	+14 24.2	0.978	1.963	1.7	18.9
2 11	8 36.85	+15 38.9	1.067	2.039	6.8	19.5
2 21	8 27.84	+16 38.0	1.181	2.113	12.0	20.0
3 2	8 22.65	+17 20.1	1.317	2.187	16.1	20.5

105398 2000 QX_{143} 1 30.9 313.°13 20.°3/22.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 49.48	+55 29.9	1.118	1.888	24.3	19.0
1 2	9 44.69	+57 35.0	1.072	1.885	22.4	18.8
1 12	9 31.73	+59 16.5	1.041	1.883	21.0	18.7
1 22	9 11.65	+60 10.7	1.027	1.880	20.3	18.6
2 1	8 48.14	+59 57.6	1.030	1.878	20.8	18.7
2 11	8 26.61	+58 32.7	1.051	1.876	22.2	18.7
2 21	8 11.07	+56 8.7	1.088	1.874	24.3	18.9
3 2	8 2.96	+53 5.2	1.140	1.872	26.4	19.0

140645 2001 UO_{26} 1 30.9 192.°65 3.°0/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.01	+27 20.0	2.791	3.562	11.1	19.9
1 2	9 14.09	+27 48.2	2.699	3.560	8.8	19.7
1 12	9 7.21	+28 17.1	2.631	3.559	6.1	19.5
1 22	8 58.83	+28 42.7	2.592	3.556	3.7	19.4
2 1	8 49.67	+29 0.8	2.584	3.554	3.2	19.3
2 11	8 40.60	+29 8.7	2.605	3.551	5.3	19.5
2 21	8 32.43	+29 5.0	2.656	3.548	8.0	19.6
3 2	8 25.86	+28 50.1	2.733	3.545	10.5	19.8

120025 2003 AT_{52} 1 30.9 103.°55 3.°5/28.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 24.21	+22 35.6	1.576	2.366	17.5	20.0
1 2	9 19.42	+23 35.5	1.512	2.386	13.7	19.8
1 12	9 11.45	+24 43.2	1.470	2.405	9.3	19.6
1 22	9 1.03	+25 50.6	1.453	2.424	5.0	19.4
2 1	8 49.41	+26 48.7	1.465	2.442	3.8	19.3
2 11	8 38.15	+27 30.8	1.505	2.460	7.4	19.6
2 21	8 28.65	+27 54.1	1.571	2.477	11.5	19.9
3 2	8 21.93	+27 59.2	1.660	2.493	15.1	20.1

373309 2012 JG_2 1 30.9 237.°67 6.°2/ 4.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.13	− 1 31.1	2.234	2.933	15.5	21.1
1 2	9 11.47	− 2 0.9	2.130	2.925	13.3	20.9
1 12	9 5.69	− 2 12.9	2.045	2.917	10.7	20.8
1 22	8 58.22	− 2 5.2	1.984	2.908	8.1	20.6
2 1	8 49.75	− 1 37.5	1.950	2.899	6.4	20.5
2 11	8 41.19	− 0 52.4	1.944	2.890	6.8	20.5
2 21	8 33.47	+ 0 5.8	1.966	2.881	9.0	20.6
3 2	8 27.39	+ 1 11.3	2.014	2.871	11.9	20.7

47765 2000 DZ_{102} 1 30.9 121.°74 0.°3/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.03	+13 9.0	2.414	3.171	13.0	18.9
1 2	9 11.13	+13 47.9	2.328	3.181	10.3	18.7
1 12	9 5.27	+14 38.0	2.265	3.191	7.1	18.5
1 22	8 57.93	+15 36.1	2.230	3.200	3.5	18.3
2 1	8 49.79	+16 38.0	2.224	3.209	0.4	18.1
2 11	8 41.72	+17 38.8	2.250	3.218	4.0	18.4
2 21	8 34.53	+18 34.1	2.305	3.227	7.5	18.6
3 2	8 28.92	+19 21.1	2.387	3.235	10.6	18.8

152034 2004 NH_{27} 1 30.9 125.°29 1.°0/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.12	+11 54.7	2.023	2.785	15.0	20.8
1 2	9 12.40	+12 20.3	1.936	2.791	12.0	20.6
1 12	9 6.37	+12 59.6	1.871	2.796	8.4	20.4
1 22	8 58.54	+13 49.9	1.831	2.800	4.3	20.1
2 1	8 49.72	+14 46.5	1.821	2.805	1.0	19.9
2 11	8 40.96	+15 44.1	1.840	2.810	4.6	20.2
2 21	8 33.26	+16 37.6	1.887	2.814	8.6	20.4
3 2	8 27.45	+17 23.4	1.961	2.818	12.1	20.6

423275 2004 WG_7 1 30.9 75.°16 6.°7/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.49	+33 52.5	1.969	2.758	14.5	20.7
1 2	9 17.03	+35 5.6	1.905	2.771	11.7	20.5
1 12	9 9.69	+36 16.2	1.865	2.783	8.9	20.4
1 22	9 0.16	+37 15.9	1.850	2.795	7.0	20.3
2 1	8 49.53	+37 57.0	1.864	2.807	7.1	20.3
2 11	8 39.18	+38 15.0	1.904	2.820	9.1	20.5
2 21	8 30.36	+38 9.7	1.970	2.832	11.8	20.6
3 2	8 24.01	+37 43.7	2.058	2.844	14.3	20.8

425339 2010 AX_{110} 1 30.9 74.°77 4.°8/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.70	+29 58.9	2.285	3.072	12.8	21.1
1 2	9 13.65	+30 59.4	2.205	3.074	10.2	20.9
1 12	9 7.22	+32 0.7	2.150	3.075	7.4	20.7
1 22	8 58.94	+32 56.4	2.121	3.077	5.2	20.6
2 1	8 49.68	+33 40.2	2.121	3.079	5.2	20.6
2 11	8 40.50	+34 7.7	2.150	3.080	7.3	20.7
2 21	8 32.45	+34 17.2	2.205	3.082	10.0	20.9
3 2	8 26.36	+34 9.5	2.284	3.084	12.7	21.1

460169 2014 QZ_{27} 1 30.9 184.°56 0.°2/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.84	+15 25.8	2.130	2.889	14.5	22.4
1 2	9 16.04	+15 40.8	2.035	2.890	11.5	22.2
1 12	9 8.83	+16 5.6	1.963	2.890	7.9	21.9
1 22	8 59.74	+16 37.1	1.918	2.889	3.9	21.7
2 1	8 49.59	+17 11.3	1.902	2.887	0.4	21.4
2 11	8 39.48	+17 43.7	1.917	2.885	4.7	21.7
2 21	8 30.44	+18 10.9	1.961	2.882	8.7	22.0
3 2	8 23.35	+18 30.7	2.031	2.879	12.2	22.2

461744 2005 UK_{128} 1 30.9 28.°43 7.°7/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.35	+33 33.8	1.637	2.441	16.3	20.7
1 2	9 16.79	+34 52.7	1.573	2.446	13.2	20.5
1 12	9 9.89	+36 9.9	1.530	2.452	10.1	20.3
1 22	9 0.38	+37 15.4	1.511	2.459	7.9	20.2
2 1	8 49.51	+37 59.5	1.519	2.466	8.1	20.2
2 11	8 38.93	+38 16.6	1.553	2.473	10.4	20.4
2 21	8 30.12	+38 6.4	1.611	2.481	13.5	20.6
3 2	8 24.20	+37 32.6	1.689	2.489	16.4	20.8

370842 2005 BH_{30} 1 30.9 92.°19 0.°5/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.28	+17 19.4	2.149	2.921	14.0	21.4
1 2	9 13.13	+17 38.8	2.067	2.930	11.0	21.2
1 12	9 6.75	+18 6.3	2.009	2.940	7.5	21.0
1 22	8 58.68	+18 38.7	1.977	2.949	3.6	20.8
2 1	8 49.73	+19 11.6	1.974	2.959	0.7	20.6
2 11	8 40.94	+19 40.9	2.001	2.968	4.6	20.9
2 21	8 33.22	+20 3.6	2.057	2.978	8.4	21.1
3 2	8 27.37	+20 18.0	2.138	2.987	11.6	21.3

55781 1993 FN_{36} 1 30.9 298.°45 0.°8/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.33	+13 18.5	1.411	2.204	19.0	19.9
1 2	9 13.89	+13 35.7	1.317	2.190	15.3	19.6
1 12	9 8.21	+14 10.8	1.241	2.175	10.8	19.3
1 22	8 59.76	+15 1.0	1.189	2.161	5.5	19.0
2 1	8 49.57	+16 0.7	1.162	2.147	0.9	18.6
2 11	8 39.19	+17 1.7	1.162	2.133	6.3	19.0
2 21	8 30.20	+17 56.8	1.187	2.120	11.8	19.2
3 2	8 23.95	+18 40.7	1.234	2.107	16.7	19.5

217083 2001 TE_{132} 1 30.9 168.°09 0.°4/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.69	+17 14.7	2.282	3.045	13.5	21.9
1 2	9 14.94	+17 33.9	2.191	3.049	10.7	21.7
1 12	9 7.97	+18 1.0	2.124	3.053	7.3	21.5
1 22	8 59.28	+18 32.7	2.084	3.056	3.5	21.3
2 1	8 49.67	+19 5.0	2.073	3.058	0.7	21.0
2 11	8 40.14	+19 33.9	2.094	3.060	4.5	21.3
2 21	8 31.63	+19 56.3	2.143	3.062	8.2	21.6
3 2	8 24.94	+20 10.7	2.219	3.062	11.5	21.8

462036 2007 CV_{38} 1 30.9 75.°59 1.°3/31.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.60	+ 9 22.6	1.821	2.583	16.5	21.3
1 2	9 12.20	+10 12.7	1.743	2.596	13.2	21.1
1 12	9 6.33	+11 21.3	1.686	2.610	9.2	20.9
1 22	8 58.56	+12 44.8	1.655	2.623	4.8	20.7
2 1	8 49.76	+14 16.8	1.653	2.637	1.3	20.5
2 11	8 41.07	+15 49.4	1.680	2.650	4.9	20.8
2 21	8 33.57	+17 15.5	1.735	2.663	9.1	21.0
3 2	8 28.13	+18 29.8	1.816	2.677	12.8	21.3

67525 2000 RW_{83} 1 30.9 207.°04 0.°1/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.36	+15 48.8	2.065	2.827	14.8	20.2
1 2	9 16.63	+16 6.9	1.964	2.821	11.8	19.9
1 12	9 9.36	+16 35.3	1.887	2.814	8.1	19.7
1 22	9 0.06	+17 10.6	1.835	2.807	4.0	19.4
2 1	8 49.58	+17 48.6	1.814	2.799	0.5	19.1
2 11	8 39.04	+18 24.2	1.822	2.790	4.9	19.4
2 21	8 29.59	+18 53.8	1.860	2.780	9.1	19.7
3 2	8 22.15	+19 14.9	1.923	2.770	12.8	19.9

430500 2001 UX_{61} 1 30.9 99.°51 0.°7/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.50	+18 22.2	2.494	3.261	12.4	21.7
1 2	9 12.17	+18 43.8	2.414	3.274	9.7	21.5
1 12	9 5.91	+19 11.8	2.357	3.288	6.6	21.3
1 22	8 58.22	+19 42.9	2.328	3.301	3.1	21.1
2 1	8 49.81	+20 13.5	2.330	3.314	0.9	21.0
2 11	8 41.55	+20 40.0	2.362	3.327	4.2	21.3
2 21	8 34.22	+21 0.0	2.423	3.339	7.5	21.5
3 2	8 28.50	+21 12.3	2.510	3.352	10.3	21.7

73982 1998 DB_{17} 1 30.9 57.°10 3.°7/ 3.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.62	+ 2 34.5	2.070	2.799	15.8	18.7
1 2	9 10.22	+ 3 0.1	1.996	2.821	13.0	18.5
1 12	9 4.73	+ 3 45.5	1.943	2.842	9.7	18.3
1 22	8 57.69	+ 4 49.2	1.914	2.864	6.3	18.2
2 1	8 49.88	+ 6 7.3	1.914	2.886	3.8	18.1
2 11	8 42.22	+ 7 33.9	1.943	2.909	4.9	18.2
2 21	8 35.60	+ 9 2.4	2.001	2.931	8.0	18.4
3 2	8 30.71	+10 26.8	2.086	2.953	11.1	18.6

89550 2001 XU_{97} 1 30.9 357.°94 5.°7/ 2.3 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.33	+ 6 20.6	1.592	2.350	18.6	18.4
1 2	9 13.98	+ 5 15.9	1.505	2.348	15.5	18.2
1 12	9 7.80	+ 4 25.9	1.439	2.346	11.8	18.0
1 22	8 59.37	+ 3 52.7	1.395	2.345	8.1	17.7
2 1	8 49.66	+ 3 37.4	1.376	2.345	5.8	17.6
2 11	8 40.02	+ 3 38.1	1.385	2.345	7.2	17.7
2 21	8 31.69	+ 3 51.2	1.419	2.346	10.8	17.9
3 2	8 25.73	+ 4 11.8	1.477	2.348	14.5	18.1

460663 2014 UR_{155} 1 30.9 97.°17 5.°3/ 4.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.74	− 0 8.6	2.000	2.712	16.8	21.5
1 2	9 12.74	− 0 8.9	1.923	2.731	14.0	21.3
1 12	9 6.50	+ 0 11.8	1.865	2.750	10.9	21.1
1 22	8 58.57	+ 0 53.6	1.831	2.768	7.6	21.0
2 1	8 49.78	+ 1 54.2	1.825	2.787	5.4	20.9
2 11	8 41.15	+ 3 8.6	1.847	2.805	6.0	20.9
2 21	8 33.61	+ 4 30.1	1.898	2.822	8.7	21.1
3 2	8 27.94	+ 5 52.1	1.976	2.839	11.8	21.4

290335 2005 SF_{235} 1 30.9 146.°53 0.°5/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.56	+17 16.9	2.520	3.276	12.6	22.0
1 2	9 14.55	+17 43.2	2.434	3.289	9.9	21.9
1 12	9 7.54	+18 16.8	2.373	3.300	6.7	21.7
1 22	8 59.03	+18 54.4	2.339	3.311	3.2	21.5
2 1	8 49.73	+19 32.0	2.337	3.321	0.7	21.3
2 11	8 40.55	+20 5.8	2.365	3.331	4.2	21.6
2 21	8 32.32	+20 33.0	2.424	3.339	7.5	21.8
3 2	8 25.73	+20 52.2	2.509	3.347	10.5	22.0

184154 2004 KF_{6} 1 30.9 196.°52 1.°4/31.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.54	+11 36.0	2.255	3.006	14.0	21.1
1 2	9 13.32	+11 46.7	2.156	3.004	11.3	20.9
1 12	9 6.93	+12 9.0	2.080	3.001	7.9	20.6
1 22	8 58.83	+12 41.3	2.031	2.998	4.3	20.4
2 1	8 49.76	+13 20.1	2.011	2.994	1.4	20.2
2 11	8 40.68	+14 1.4	2.021	2.990	4.3	20.4
2 21	8 32.53	+14 41.2	2.061	2.986	8.1	20.6
3 2	8 26.11	+15 16.3	2.126	2.981	11.4	20.8

145772 1997 WC_{4} 1 30.9 32.°74 1.°9/ 1.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.80	+11 32.0	1.750	2.520	16.8	20.1
1 2	9 13.32	+11 31.5	1.664	2.522	13.5	19.9
1 12	9 7.21	+11 45.1	1.600	2.525	9.5	19.7
1 22	8 59.04	+12 11.1	1.560	2.527	5.2	19.4
2 1	8 49.74	+12 45.7	1.547	2.530	1.9	19.2
2 11	8 40.51	+13 24.1	1.563	2.533	5.1	19.4
2 21	8 32.53	+14 1.5	1.605	2.536	9.5	19.7
3 2	8 26.73	+14 33.9	1.673	2.539	13.4	19.9

365132 2009 DZ_{31} 1 30.9 343.°03 0.°3/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.68	+14 1.3	1.395	2.193	18.9	21.0
1 2	9 12.48	+14 26.1	1.311	2.188	15.1	20.7
1 12	9 7.13	+15 8.4	1.246	2.182	10.5	20.4
1 22	8 59.19	+16 4.5	1.205	2.178	5.2	20.1
2 1	8 49.71	+17 7.8	1.189	2.174	0.6	19.8
2 11	8 40.23	+18 10.0	1.199	2.171	6.2	20.2
2 21	8 32.23	+19 4.0	1.235	2.168	11.5	20.4
3 2	8 26.91	+19 45.2	1.293	2.166	16.1	20.7

40541 1999 RE_{106} 1 30.9 110.°97 3.°9/ 2.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.32	+ 4 6.3	2.269	2.992	14.7	19.5
1 2	9 12.16	+ 3 59.9	2.185	3.007	12.1	19.3
1 12	9 5.99	+ 4 9.1	2.123	3.021	9.1	19.1
1 22	8 58.31	+ 4 33.5	2.087	3.035	6.0	19.0
2 1	8 49.84	+ 5 11.0	2.078	3.048	3.9	18.9
2 11	8 41.49	+ 5 58.1	2.100	3.062	5.0	19.0
2 21	8 34.09	+ 6 50.1	2.150	3.075	7.8	19.2
3 2	8 28.35	+ 7 42.6	2.227	3.087	10.8	19.4

408161 2013 CY_{158} 1 30.9 275.°41 0.°9/31.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.70	+13 14.2	1.652	2.430	17.3	22.2
1 2	9 14.52	+13 28.4	1.550	2.414	13.9	22.0
1 12	9 8.40	+13 57.9	1.467	2.397	9.8	21.7
1 22	8 59.80	+14 40.3	1.409	2.380	5.0	21.3
2 1	8 49.64	+15 30.9	1.378	2.363	0.9	21.0
2 11	8 39.27	+16 23.1	1.375	2.346	5.7	21.3
2 21	8 30.08	+17 11.0	1.399	2.328	10.7	21.5
3 2	8 23.28	+17 50.2	1.446	2.311	15.2	21.8

275406 2011 BR_{48} 1 30.9 103.°01 1.°6/31.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.51	+12 28.3	1.991	2.753	15.3	21.4
1 2	9 13.54	+12 23.7	1.901	2.755	12.2	21.2
1 12	9 7.18	+12 30.4	1.834	2.757	8.6	21.0
1 22	8 58.98	+12 46.8	1.792	2.759	4.6	20.8
2 1	8 49.76	+13 9.8	1.778	2.761	1.6	20.6
2 11	8 40.63	+13 35.7	1.793	2.763	4.7	20.8
2 21	8 32.60	+14 0.7	1.837	2.765	8.7	21.0
3 2	8 26.52	+14 21.9	1.906	2.767	12.3	21.2

462663 2009 SF_{343} 1 30.9 123.°88 1.°6/ 1.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.86	+10 37.4	2.022	2.780	15.2	21.9
1 2	9 12.22	+10 56.7	1.933	2.784	12.2	21.7
1 12	9 6.28	+11 30.4	1.866	2.788	8.6	21.5
1 22	8 58.54	+12 16.1	1.825	2.792	4.6	21.2
2 1	8 49.82	+13 9.8	1.813	2.796	1.6	21.0
2 11	8 41.14	+14 6.3	1.830	2.800	4.6	21.2
2 21	8 33.51	+15 0.5	1.875	2.803	8.5	21.5
3 2	8 27.76	+15 48.4	1.946	2.807	12.1	21.7

118952 2000 WA_{92} 1 30.9 70.°39 0.°1/31.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.55	+15 48.9	1.921	2.695	15.3	20.2
1 2	9 13.65	+16 1.5	1.838	2.702	12.1	20.0
1 12	9 7.28	+16 24.3	1.778	2.709	8.3	19.8
1 22	8 59.03	+16 54.0	1.743	2.715	4.0	19.5
2 1	8 49.77	+17 26.3	1.737	2.722	0.5	19.3
2 11	8 40.65	+17 56.7	1.760	2.729	4.9	19.6
2 21	8 32.72	+18 21.5	1.811	2.736	9.0	19.9
3 2	8 26.85	+18 38.5	1.886	2.743	12.6	20.1

308687 2006 DX_{109} 1 30.9 249.°64 0.°1/31.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.25	+15 51.7	1.777	2.551	16.4	21.4
1 2	9 16.28	+16 3.5	1.675	2.539	13.1	21.1
1 12	9 9.45	+16 26.9	1.595	2.525	9.1	20.8
1 22	9 0.25	+16 58.6	1.540	2.512	4.5	20.5
2 1	8 49.61	+17 33.9	1.512	2.497	0.5	20.2
2 11	8 38.84	+18 7.4	1.514	2.483	5.5	20.5
2 21	8 29.26	+18 34.7	1.543	2.468	10.3	20.8
3 2	8 21.99	+18 53.1	1.597	2.453	14.5	21.0

497249 2005 GO_{57} 1 30.9 265.°72 6.°5/25.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.96	+36 10.4	2.427	3.204	12.4	21.7
1 2	9 16.42	+37 14.1	2.334	3.189	10.2	21.5
1 12	9 9.28	+38 15.1	2.265	3.173	8.0	21.3
1 22	9 0.07	+39 6.5	2.222	3.158	6.6	21.2
2 1	8 49.66	+39 41.5	2.208	3.142	6.8	21.2
2 11	8 39.22	+39 55.7	2.222	3.126	8.6	21.3
2 21	8 29.92	+39 48.1	2.262	3.109	11.0	21.4
3 2	8 22.71	+39 20.4	2.325	3.093	13.4	21.6

377511 2005 EA_{255} 1 30.9 42.°64 2.°0/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.45	+22 54.0	2.148	2.927	13.8	20.9
1 2	9 14.96	+23 7.0	2.061	2.929	10.8	20.7
1 12	9 8.09	+23 23.7	1.997	2.930	7.4	20.5
1 22	8 59.40	+23 40.0	1.960	2.932	3.8	20.2
2 1	8 49.75	+23 51.7	1.952	2.933	2.2	20.1
2 11	8 40.25	+23 55.4	1.974	2.935	5.4	20.4
2 21	8 31.91	+23 49.3	2.023	2.936	9.0	20.6
3 2	8 25.56	+23 33.6	2.098	2.938	12.2	20.8

122623 2000 RK_{67} 1 30.9 143.°27 1.°4/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.55	+19 1.9	2.075	2.842	14.6	20.8
1 2	9 17.39	+19 39.2	1.994	2.855	11.4	20.6
1 12	9 9.75	+20 24.6	1.937	2.868	7.7	20.4
1 22	9 0.20	+21 13.3	1.907	2.879	3.7	20.1
2 1	8 49.67	+21 59.8	1.907	2.890	1.6	20.0
2 11	8 39.29	+22 38.8	1.938	2.900	5.3	20.3
2 21	8 30.15	+23 7.3	1.997	2.910	9.1	20.5
3 2	8 23.08	+23 24.0	2.082	2.918	12.4	20.8

70236 1999 RL_{67} 1 30.9 6.°34 1.°5/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.49	+13 17.4	1.301	2.102	19.9	18.3
1 2	9 13.20	+13 12.5	1.225	2.102	16.0	18.0
1 12	9 7.64	+13 23.8	1.168	2.103	11.2	17.7
1 22	8 59.43	+13 49.0	1.133	2.104	5.8	17.4
2 1	8 49.75	+14 23.3	1.123	2.107	1.5	17.2
2 11	8 40.21	+15 0.2	1.138	2.111	6.2	17.5
2 21	8 32.32	+15 33.9	1.178	2.115	11.5	17.8
3 2	8 27.24	+16 0.0	1.240	2.120	16.1	18.1

88448 2001 QH_{82} 1 30.9 16.°69 1.°1/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.12	+15 30.8	1.450	2.235	18.9	19.0
1 2	9 18.14	+15 10.7	1.367	2.236	15.2	18.8
1 12	9 10.86	+15 1.5	1.305	2.236	10.6	18.5
1 22	9 0.95	+15 1.0	1.266	2.237	5.4	18.2
2 1	8 49.58	+15 5.5	1.253	2.238	1.2	17.9
2 11	8 38.36	+15 10.9	1.268	2.239	6.0	18.2
2 21	8 28.80	+15 13.8	1.309	2.240	11.2	18.5
3 2	8 22.05	+15 12.2	1.372	2.241	15.7	18.8

344352 2001 WS_{68} 1 30.9 354.°15 5.°6/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.60	+32 0.4	2.247	3.036	12.9	20.6
1 2	9 13.73	+33 5.0	2.168	3.035	10.4	20.5
1 12	9 7.39	+34 9.4	2.112	3.034	7.7	20.3
1 22	8 59.12	+35 6.5	2.083	3.034	5.8	20.2
2 1	8 49.80	+35 49.8	2.083	3.033	5.9	20.2
2 11	8 40.57	+36 14.7	2.110	3.033	7.9	20.3
2 21	8 32.50	+36 19.8	2.164	3.033	10.6	20.5
3 2	8 26.47	+36 6.5	2.241	3.033	13.1	20.6

394824 2008 SG_{112} 1 30.9 202.°06 1.°9/ 1.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.94	+ 9 58.3	1.858	2.612	16.5	21.6
1 2	9 15.78	+10 15.9	1.760	2.608	13.3	21.4
1 12	9 8.96	+10 50.0	1.684	2.604	9.5	21.1
1 22	8 59.97	+11 38.4	1.633	2.599	5.2	20.9
2 1	8 49.70	+12 36.9	1.610	2.593	1.9	20.6
2 11	8 39.35	+13 39.6	1.617	2.586	5.1	20.8
2 21	8 30.13	+14 40.4	1.652	2.579	9.5	21.1
3 2	8 23.05	+15 34.5	1.712	2.571	13.5	21.3

262626 2006 WO_{14} 1 30.9 121.°63 5.°0/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.60	+28 15.8	2.073	2.857	14.0	20.9
1 2	9 16.90	+29 39.7	2.004	2.872	11.1	20.7
1 12	9 9.56	+31 6.1	1.960	2.886	8.0	20.5
1 22	9 0.17	+32 27.2	1.943	2.900	5.5	20.4
2 1	8 49.69	+33 34.8	1.955	2.914	5.4	20.4
2 11	8 39.37	+34 23.4	1.996	2.927	7.8	20.6
2 21	8 30.37	+34 50.8	2.065	2.940	10.7	20.8
3 2	8 23.59	+34 58.1	2.157	2.952	13.5	21.0

230873 2004 RE_{208} 1 30.9 166.°91 4.°7/ 2.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.43	+ 3 50.8	2.296	3.012	14.7	20.4
1 2	9 13.89	+ 3 13.1	2.201	3.015	12.3	20.2
1 12	9 7.25	+ 2 48.8	2.127	3.018	9.4	20.1
1 22	8 58.99	+ 2 38.9	2.078	3.020	6.6	19.9
2 1	8 49.83	+ 2 43.2	2.058	3.022	4.8	19.8
2 11	8 40.71	+ 2 59.5	2.068	3.023	5.7	19.8
2 21	8 32.51	+ 3 24.7	2.106	3.024	8.3	20.0
3 2	8 25.99	+ 3 54.8	2.171	3.025	11.2	20.2

403830 2011 UB_{210} 1 30.9 327.°58 3.°8/ 1.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.70	+ 9 15.9	1.470	2.244	19.2	20.7
1 2	9 14.64	+ 8 46.5	1.382	2.239	15.7	20.4
1 12	9 8.51	+ 8 33.5	1.313	2.234	11.5	20.1
1 22	8 59.85	+ 8 36.9	1.266	2.229	7.0	19.9
2 1	8 49.72	+ 8 55.1	1.245	2.224	3.8	19.7
2 11	8 39.58	+ 9 23.5	1.251	2.220	6.4	19.8
2 21	8 30.86	+ 9 57.0	1.282	2.217	11.0	20.1
3 2	8 24.72	+10 30.2	1.337	2.213	15.5	20.3

335941 2007 TO_{61} 1 30.9 92.°47 0.°3/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.10	+14 42.4	2.430	3.189	12.9	21.0
1 2	9 11.89	+15 2.2	2.351	3.206	10.2	20.8
1 12	9 5.76	+15 31.0	2.297	3.223	7.0	20.7
1 22	8 58.20	+16 5.8	2.269	3.240	3.4	20.5
2 1	8 49.94	+16 43.1	2.271	3.256	0.4	20.2
2 11	8 41.82	+17 19.2	2.304	3.272	3.9	20.5
2 21	8 34.65	+17 50.9	2.366	3.288	7.3	20.8
3 2	8 29.07	+18 16.1	2.455	3.304	10.3	21.0

262656 2006 WM_{90} 1 30.9 19.°43 2.°1/ 1.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.23	+11 45.3	1.459	2.247	18.7	20.4
1 2	9 12.55	+11 39.4	1.385	2.253	15.0	20.2
1 12	9 6.93	+11 49.6	1.329	2.259	10.6	20.0
1 22	8 59.00	+12 13.8	1.297	2.266	5.8	19.7
2 1	8 49.84	+12 48.1	1.291	2.274	2.1	19.5
2 11	8 40.86	+13 26.7	1.311	2.283	5.7	19.7
2 21	8 33.36	+14 4.0	1.357	2.292	10.4	20.0
3 2	8 28.36	+14 35.6	1.426	2.302	14.7	20.3

87197 2000 OE_{22} 1 30.9 54.°10 6.°4/ 1.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 33.70	+ 9 27.8	1.288	2.044	22.4	18.2
1 2	9 26.81	+ 7 31.5	1.233	2.075	18.3	18.0
1 12	9 16.36	+ 5 48.9	1.197	2.106	13.6	17.8
1 22	9 3.37	+ 4 23.9	1.186	2.138	8.9	17.6
2 1	8 49.38	+ 3 19.5	1.201	2.170	6.4	17.6
2 11	8 36.21	+ 2 36.0	1.244	2.202	8.3	17.8
2 21	8 25.37	+ 2 10.5	1.314	2.234	12.1	18.1
3 2	8 17.79	+ 1 58.4	1.407	2.266	15.9	18.4

61046 2000 KB_{63} 1 30.9 73.°51 8.°5/ 6.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.63	− 6 14.2	1.829	2.518	18.8	19.7
1 2	9 12.18	− 6 51.7	1.752	2.532	16.3	19.5
1 12	9 6.31	− 7 4.3	1.693	2.547	13.5	19.4
1 22	8 58.59	− 6 49.0	1.656	2.562	10.7	19.2
2 1	8 49.90	− 6 5.7	1.643	2.576	8.8	19.1
2 11	8 41.34	− 4 58.2	1.656	2.591	8.7	19.2
2 21	8 33.94	− 3 33.4	1.696	2.606	10.5	19.3
3 2	8 28.54	− 1 59.8	1.760	2.620	13.1	19.5

40629 1999 RX_{173} 1 30.9 169.°85 0.°6/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.36	+16 30.7	2.176	2.939	14.1	19.6
1 2	9 15.65	+17 6.5	2.086	2.943	11.1	19.4
1 12	9 8.58	+17 52.4	2.019	2.947	7.6	19.2
1 22	8 59.69	+18 44.3	1.979	2.951	3.6	19.0
2 1	8 49.77	+19 37.1	1.969	2.953	0.9	18.8
2 11	8 39.90	+20 25.6	1.990	2.955	4.8	19.1
2 21	8 31.09	+21 5.9	2.039	2.956	8.7	19.3
3 2	8 24.17	+21 35.8	2.115	2.956	12.0	19.5

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
456790 2007 TK_{200}			1 30.9	74.°63	0.°1/30.9	18
	h m	° ′			°	m
12 23	9 20.83	+16 12.1	1.535	2.320	18.1	22.0
1 2	9 16.79	+16 22.3	1.463	2.333	14.3	21.8
1 12	9 9.73	+16 44.5	1.412	2.345	9.8	21.5
1 22	9 0.31	+17 14.6	1.385	2.357	4.7	21.3
2 1	8 49.71	+17 47.0	1.385	2.370	0.6	21.0
2 11	8 39.38	+18 16.3	1.413	2.382	5.7	21.4
2 21	8 30.66	+18 38.3	1.467	2.395	10.5	21.7
3 2	8 24.54	+18 51.0	1.545	2.407	14.6	22.0
498325 2007 VC_{182}			1 30.9	161.°57	0.°5/30.5	17
12 23	9 16.20	+17 37.2	2.979	3.735	10.8	23.3
1 2	9 11.69	+18 2.7	2.887	3.741	8.5	23.2
1 12	9 5.51	+18 34.2	2.819	3.747	5.8	23.0
1 22	8 58.08	+19 8.9	2.780	3.752	2.8	22.8
2 1	8 49.98	+19 43.8	2.772	3.757	0.7	22.6
2 11	8 41.93	+20 15.6	2.796	3.761	3.6	22.9
2 21	8 34.62	+20 41.9	2.850	3.765	6.6	23.1
3 2	8 28.63	+21 1.3	2.931	3.768	9.2	23.2
19825 2000 SN_{179}			1 30.9	246.°59	6.°3/ 3.8	18
12 23	9 16.09	+ 0 0.2	2.111	2.820	16.1	18.7
1 2	9 12.37	− 0 41.5	2.011	2.815	13.7	18.6
1 12	9 6.41	− 1 6.3	1.931	2.809	10.9	18.4
1 22	8 58.67	− 1 12.1	1.875	2.804	8.2	18.2
2 1	8 49.90	− 0 58.5	1.846	2.798	6.4	18.1
2 11	8 41.07	− 0 27.5	1.844	2.792	6.9	18.1
2 21	8 33.15	+ 0 16.7	1.870	2.786	9.4	18.2
3 2	8 26.99	+ 1 8.8	1.921	2.780	12.3	18.4
466774 2015 AG_{243}			1 30.9	116.°81	1.°4/29.7	17
12 23	9 14.87	+17 9.9	2.403	3.172	12.7	21.1
1 2	9 11.18	+18 19.8	2.316	3.179	10.0	20.9
1 12	9 5.46	+19 40.0	2.253	3.185	6.7	20.7
1 22	8 58.15	+21 5.8	2.219	3.192	3.2	20.5
2 1	8 49.97	+22 31.0	2.215	3.198	1.6	20.4
2 11	8 41.79	+23 49.7	2.243	3.204	4.8	20.6
2 21	8 34.48	+24 57.3	2.300	3.210	8.2	20.8
3 2	8 28.78	+25 51.3	2.383	3.216	11.2	21.0
410493 2008 DZ_{68}			1 30.9	26.°82	13.°5/23.9	18
12 23	9 34.45	+49 57.3	1.634	2.400	17.9	20.6
1 2	9 29.03	+51 25.9	1.582	2.404	15.9	20.5
1 12	9 18.83	+52 38.0	1.550	2.408	14.3	20.4
1 22	9 4.89	+53 20.1	1.538	2.412	13.5	20.3
2 1	8 49.21	+53 21.6	1.550	2.417	13.9	20.4
2 11	8 34.40	+52 39.7	1.584	2.423	15.2	20.5
2 21	8 22.62	+51 19.6	1.638	2.428	17.1	20.6
3 2	8 15.10	+49 30.7	1.711	2.434	19.1	20.8
297966 2002 HJ_{15}			1 30.9	320.°83	3.°8/28.0	18
12 23	9 16.20	+28 12.0	2.500	3.283	11.9	20.5
1 2	9 12.27	+28 55.1	2.411	3.279	9.4	20.3
1 12	9 6.22	+29 39.5	2.347	3.276	6.7	20.1
1 22	8 58.52	+30 20.2	2.310	3.272	4.3	20.0
2 1	8 49.93	+30 52.2	2.302	3.268	4.0	20.0
2 11	8 41.40	+31 11.7	2.324	3.265	6.2	20.1
2 21	8 33.84	+31 17.0	2.373	3.262	8.9	20.2
3 2	8 27.99	+31 8.4	2.447	3.259	11.6	20.4
253212 2002 XC_{99}			1 30.9	151.°58	1.°3/31.9	18
12 23	9 20.03	+11 55.5	2.384	3.126	13.6	21.4
1 2	9 15.04	+12 2.1	2.294	3.137	10.8	21.3
1 12	9 7.97	+12 19.0	2.228	3.147	7.6	21.1
1 22	8 59.32	+12 44.4	2.190	3.156	4.1	20.9
2 1	8 49.85	+13 15.1	2.181	3.164	1.3	20.7
2 11	8 40.48	+13 47.7	2.203	3.172	4.1	20.9
2 21	8 32.07	+14 18.7	2.256	3.179	7.6	21.1
3 2	8 25.36	+14 45.6	2.335	3.185	10.7	21.3
117021 2004 JH_{10}			1 30.9	142.°31	2.°7/ 2.2	18
12 23	9 16.15	+ 6 3.1	2.211	2.945	14.7	19.8
1 2	9 12.22	+ 6 25.0	2.121	2.953	12.0	19.6
1 12	9 6.18	+ 7 3.3	2.053	2.961	8.8	19.4
1 22	8 58.51	+ 7 56.7	2.010	2.968	5.3	19.2
2 1	8 49.95	+ 9 1.6	1.997	2.975	2.8	19.1
2 11	8 41.43	+10 12.8	2.014	2.982	4.5	19.2
2 21	8 33.85	+11 25.0	2.060	2.988	7.9	19.4
3 2	8 27.97	+12 33.0	2.133	2.993	11.2	19.6
29854 1999 FK_{27}			1 30.9	43.°46	8.°5/26.4	18
12 23	9 24.00	+36 16.2	1.616	2.414	16.8	17.2
1 2	9 19.76	+37 28.6	1.556	2.423	13.7	17.1
1 12	9 11.98	+38 36.0	1.518	2.433	10.7	16.9
1 22	9 1.47	+39 27.9	1.503	2.443	8.7	16.8
2 1	8 49.61	+39 55.0	1.514	2.453	8.9	16.9
2 11	8 38.20	+39 52.8	1.551	2.464	11.0	17.0
2 21	8 28.80	+39 22.6	1.612	2.475	13.9	17.2
3 2	8 22.49	+38 29.2	1.694	2.487	16.6	17.4

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
86815 2000 GL_{134}			1 30.9	191.°08	2.°5/29.3	18
	h m	° ′			°	m
12 23	9 21.99	+20 48.5	1.999	2.773	14.8	20.0
1 2	9 17.35	+21 46.5	1.907	2.772	11.7	19.8
1 12	9 10.01	+22 53.8	1.838	2.770	8.0	19.6
1 22	9 0.50	+24 4.2	1.796	2.767	4.1	19.4
2 1	8 49.72	+25 10.7	1.784	2.764	2.8	19.3
2 11	8 38.91	+26 6.5	1.803	2.759	6.2	19.5
2 21	8 29.27	+26 47.4	1.849	2.754	10.1	19.7
3 2	8 21.80	+27 12.1	1.920	2.748	13.6	19.9
46875 1998 QD_{104}			1 30.9	16.°07	0.°9/31.5	18 R
12 23	9 10.33	+10 57.0	1.169	1.980	21.1	16.7
1 2	9 9.38	+11 40.6	1.104	1.987	16.8	16.4
1 12	9 5.14	+12 48.8	1.058	1.996	11.7	16.1
1 22	8 58.27	+14 16.8	1.033	2.006	5.9	15.8
2 1	8 49.99	+15 55.1	1.033	2.018	0.9	15.5
2 11	8 41.91	+17 32.3	1.057	2.031	6.4	15.9
2 21	8 35.54	+18 58.1	1.106	2.045	11.8	16.3
3 2	8 32.01	+20 6.0	1.177	2.061	16.5	16.6
74462 1999 CR_{37}			1 30.9	338.°56	1.°4/30.1	18
12 23	9 15.12	+19 17.8	2.000	2.785	14.4	19.8
1 2	9 11.85	+19 46.6	1.909	2.780	11.4	19.6
1 12	9 6.17	+20 23.8	1.841	2.776	7.7	19.4
1 22	8 58.60	+21 5.3	1.798	2.771	3.8	19.1
2 1	8 49.96	+21 45.8	1.784	2.767	1.6	19.0
2 11	8 41.35	+22 20.4	1.799	2.764	5.3	19.2
2 21	8 33.81	+22 45.4	1.841	2.760	9.3	19.4
3 2	8 28.24	+22 59.3	1.908	2.757	12.8	19.7
306665 2000 SO_{277}			1 30.9	231.°48	1.°6/31.9	17
12 23	9 22.45	+11 32.3	2.384	3.120	13.7	21.9
1 2	9 17.26	+11 33.8	2.264	3.102	11.1	21.7
1 12	9 9.75	+11 45.9	2.167	3.082	8.0	21.5
1 22	9 0.35	+12 7.4	2.097	3.062	4.4	21.2
2 1	8 49.76	+12 35.5	2.057	3.040	1.6	21.0
2 11	8 38.97	+13 6.7	2.049	3.017	4.5	21.1
2 21	8 28.98	+13 37.5	2.072	2.993	8.3	21.3
3 2	8 20.71	+14 5.0	2.121	2.967	11.8	21.5
466639 2014 WO_{46}			1 30.9	32.°09	1.°0/31.6	18
12 23	9 17.01	+13 53.6	1.719	2.497	16.7	21.6
1 2	9 13.54	+13 55.3	1.638	2.502	13.3	21.3
1 12	9 7.41	+14 9.3	1.578	2.508	9.3	21.1
1 22	8 59.21	+14 33.2	1.543	2.514	4.7	20.8
2 1	8 49.91	+15 2.8	1.535	2.520	1.0	20.6
2 11	8 40.74	+15 33.4	1.555	2.526	5.1	20.9
2 21	8 32.88	+16 0.6	1.603	2.533	9.5	21.2
3 2	8 27.24	+16 21.5	1.674	2.540	13.4	21.4
90059 2002 VW_{56}			1 30.9	87.°81	4.°6/28.4	18
12 23	9 22.44	+23 56.8	1.419	2.222	18.4	19.5
1 2	9 18.59	+25 10.4	1.355	2.236	14.5	19.3
1 12	9 11.26	+26 32.4	1.312	2.249	10.0	19.1
1 22	9 1.18	+27 53.0	1.294	2.262	5.8	18.9
2 1	8 49.68	+29 1.6	1.302	2.276	5.0	18.9
2 11	8 38.49	+29 49.9	1.337	2.289	8.6	19.1
2 21	8 29.18	+30 14.7	1.398	2.302	12.8	19.4
3 2	8 22.89	+30 17.4	1.480	2.314	16.6	19.7
93630 2000 UR_{77}			1 30.9	105.°20	3.°6/28.6	18
12 23	9 18.88	+24 41.8	1.962	2.750	14.5	20.0
1 2	9 14.89	+25 32.9	1.881	2.754	11.4	19.8
1 12	9 8.28	+26 29.1	1.824	2.757	7.9	19.6
1 22	8 59.62	+27 23.9	1.793	2.761	4.6	19.4
2 1	8 49.86	+28 10.8	1.791	2.765	3.8	19.3
2 11	8 40.21	+28 44.1	1.817	2.768	6.7	19.5
2 21	8 31.82	+29 1.3	1.871	2.772	10.3	19.7
3 2	8 25.62	+29 2.5	1.948	2.775	13.5	19.9
187887 2000 RW_{64}			1 30.9	211.°82	0.°8/30.5	17
12 23	9 21.63	+19 31.8	2.518	3.276	12.5	21.1
1 2	9 16.38	+19 39.3	2.413	3.268	9.9	20.9
1 12	9 8.97	+19 51.8	2.332	3.260	6.8	20.7
1 22	8 59.88	+20 6.4	2.279	3.251	3.3	20.5
2 1	8 49.84	+20 19.7	2.257	3.241	1.0	20.3
2 11	8 39.79	+20 28.6	2.267	3.231	4.4	20.5
2 21	8 30.67	+20 31.1	2.306	3.220	7.9	20.7
3 2	8 23.25	+20 26.4	2.372	3.209	11.0	20.9
84550 2002 UN_{33}			1 30.9	24.°56	0.°3/31.1	18
12 23	9 14.89	+15 30.0	1.788	2.572	15.9	18.9
1 2	9 11.75	+15 40.3	1.713	2.581	12.6	18.7
1 12	9 6.09	+16 1.5	1.659	2.591	8.6	18.5
1 22	8 58.54	+16 30.4	1.629	2.602	4.2	18.2
2 1	8 50.01	+17 2.7	1.628	2.613	0.5	17.9
2 11	8 41.66	+17 33.5	1.654	2.624	5.0	18.3
2 21	8 34.56	+17 59.0	1.708	2.637	9.2	18.6
3 2	8 29.55	+18 16.8	1.786	2.650	12.8	18.8

414884 2010 WR_{21} 1 30.9 51.°07 0.°7/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.99	+17 23.0	1.699	2.486	16.5	21.6
1 2	9 14.39	+17 46.1	1.622	2.492	13.0	21.4
1 12	9 8.04	+18 19.9	1.565	2.499	8.9	21.2
1 22	8 59.54	+19 0.1	1.534	2.507	4.3	20.9
2 1	8 49.90	+19 41.0	1.530	2.514	1.0	20.7
2 11	8 40.42	+20 16.9	1.554	2.522	5.6	21.0
2 21	8 32.32	+20 43.9	1.605	2.530	10.0	21.3
3 2	8 26.54	+20 59.8	1.680	2.538	13.8	21.5

140915 2001 VY_{61} 1 30.9 168.°86 2.°1/ 1.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.29	+ 9 31.0	2.758	3.494	12.1	20.4
1 2	9 11.11	+ 9 25.3	2.661	3.496	9.8	20.3
1 12	9 5.21	+ 9 29.4	2.587	3.498	7.0	20.1
1 22	8 57.99	+ 9 42.3	2.540	3.500	4.1	19.9
2 1	8 50.08	+10 2.3	2.522	3.501	2.1	19.8
2 11	8 42.20	+10 26.8	2.536	3.503	3.8	19.9
2 21	8 35.06	+10 52.9	2.579	3.504	6.7	20.1
3 2	8 29.28	+11 18.2	2.650	3.505	9.4	20.3

7726 Olegbykov 1 30.9 218.°89 1.°9/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 24.10	+20 58.1	1.836	2.613	15.8	18.4
1 2	9 19.28	+21 22.1	1.739	2.605	12.6	18.1
1 12	9 11.50	+21 53.6	1.664	2.596	8.6	17.9
1 22	9 1.30	+22 27.5	1.615	2.587	4.3	17.6
2 1	8 49.69	+22 57.8	1.594	2.576	2.2	17.4
2 11	8 38.03	+23 19.1	1.603	2.565	6.2	17.6
2 21	8 27.68	+23 28.4	1.640	2.554	10.6	17.9
3 2	8 19.76	+23 25.1	1.701	2.542	14.5	18.1

409805 2006 HH_{53} 1 30.9 202.°93 3.°7/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.99	+23 38.3	1.834	2.621	15.5	21.1
1 2	9 16.88	+24 40.0	1.747	2.618	12.2	20.8
1 12	9 9.87	+25 49.4	1.682	2.615	8.5	20.6
1 22	9 0.51	+26 59.5	1.643	2.612	4.8	20.4
2 1	8 49.78	+28 2.0	1.633	2.608	4.0	20.3
2 11	8 39.05	+28 49.9	1.652	2.603	7.3	20.5
2 21	8 29.62	+29 19.6	1.698	2.598	11.1	20.7
3 2	8 22.59	+29 30.7	1.767	2.593	14.7	20.9

394356 2007 BB_{48} 1 30.9 48.°37 2.°8/29.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.33	+20 6.5	1.184	1.998	20.7	21.2
1 2	9 17.36	+20 50.2	1.123	2.010	16.3	20.9
1 12	9 10.64	+21 46.4	1.081	2.023	11.0	20.7
1 22	9 0.95	+22 47.2	1.062	2.036	5.5	20.4
2 1	8 49.75	+23 42.4	1.068	2.050	3.1	20.3
2 11	8 38.96	+24 23.6	1.099	2.064	7.9	20.6
2 21	8 30.26	+24 46.5	1.154	2.079	13.0	21.0
3 2	8 24.84	+24 50.8	1.231	2.094	17.5	21.3

500613 2012 UO_{139} 1 30.9 112.°08 2.°1/29.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.19	+24 11.2	2.608	3.378	11.8	21.5
1 2	9 14.27	+24 28.3	2.526	3.389	9.3	21.4
1 12	9 7.38	+24 47.4	2.469	3.399	6.3	21.2
1 22	8 59.04	+25 5.1	2.440	3.409	3.4	21.0
2 1	8 49.98	+25 17.5	2.441	3.419	2.3	21.0
2 11	8 41.10	+25 22.1	2.473	3.429	4.8	21.2
2 21	8 33.20	+25 17.6	2.534	3.439	7.7	21.4
3 2	8 26.96	+25 4.1	2.621	3.448	10.4	21.5

468404 2016 GB_{133} 1 30.9 205.°13 0.°9/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.44	+17 48.4	2.166	2.940	13.8	21.2
1 2	9 12.66	+18 19.4	2.074	2.939	10.9	21.0
1 12	9 6.61	+18 59.2	2.006	2.938	7.4	20.8
1 22	8 58.80	+19 44.1	1.964	2.937	3.6	20.5
2 1	8 50.00	+20 29.4	1.952	2.936	1.1	20.4
2 11	8 41.23	+21 10.1	1.969	2.935	4.8	20.6
2 21	8 33.46	+21 42.6	2.015	2.933	8.6	20.8
3 2	8 27.52	+22 4.9	2.086	2.932	12.0	21.1

194326 2001 UA_{122} 1 30.9 50.°82 4.°6/ 2.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.07	+ 6 35.9	1.411	2.179	20.2	19.8
1 2	9 14.89	+ 6 11.1	1.336	2.186	16.6	19.6
1 12	9 8.63	+ 6 6.7	1.278	2.194	12.3	19.4
1 22	8 59.92	+ 6 22.9	1.243	2.202	7.8	19.1
2 1	8 49.87	+ 6 57.4	1.234	2.210	4.7	19.0
2 11	8 39.98	+ 7 44.7	1.250	2.218	6.6	19.1
2 21	8 31.63	+ 8 37.9	1.292	2.226	11.0	19.4
3 2	8 25.91	+ 9 30.2	1.357	2.235	15.2	19.6

324152 2005 YH_{168} 1 30.9 234.°68 13.°0/20.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 23.68	+34 34.6	1.193	2.013	20.2	20.0
1 2	9 21.69	+38 9.1	1.131	2.010	16.8	19.8
1 12	9 14.93	+41 50.7	1.093	2.007	14.0	19.6
1 22	9 3.70	+45 16.4	1.079	2.004	13.1	19.5
2 1	8 49.40	+48 2.3	1.090	2.001	14.5	19.6
2 11	8 34.63	+49 52.9	1.124	1.998	17.5	19.8
2 21	8 22.22	+50 46.5	1.177	1.995	20.9	20.0
3 2	8 14.35	+50 51.1	1.245	1.992	23.9	20.2

104471 2000 GO_{16} 1 30.9 212.°97 1.°5/ 1.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.36	+11 19.9	2.387	3.132	13.5	21.1
1 2	9 13.94	+11 29.1	2.281	3.124	10.9	20.9
1 12	9 7.40	+11 49.6	2.198	3.116	7.7	20.7
1 22	8 59.18	+12 19.7	2.141	3.107	4.2	20.5
2 1	8 49.98	+12 56.4	2.114	3.097	1.5	20.3
2 11	8 40.70	+13 36.0	2.118	3.087	4.2	20.5
2 21	8 32.27	+14 14.7	2.152	3.076	7.8	20.7
3 2	8 25.48	+14 49.3	2.212	3.065	11.1	20.8

241820 2001 SY_{87} 1 31.0 117.°79 2.°8/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 21.31	+26 33.2	2.516	3.287	12.2	21.1
1 2	9 16.03	+26 51.1	2.436	3.298	9.6	21.0
1 12	9 8.63	+27 9.6	2.379	3.308	6.6	20.8
1 22	8 59.66	+27 24.6	2.351	3.317	3.8	20.6
2 1	8 49.94	+27 32.1	2.353	3.327	3.0	20.6
2 11	8 40.43	+27 29.5	2.385	3.336	5.3	20.7
2 21	8 32.01	+27 16.0	2.446	3.345	8.2	20.9
3 2	8 25.39	+26 52.4	2.533	3.354	10.9	21.1

260719 2005 JC_{179} 1 31.0 161.°39 1.°7/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.41	+20 30.9	2.488	3.251	12.5	22.2
1 2	9 15.42	+21 14.5	2.400	3.259	9.8	22.0
1 12	9 8.30	+22 4.4	2.337	3.267	6.7	21.8
1 22	8 59.56	+22 56.2	2.302	3.273	3.3	21.6
2 1	8 49.95	+23 44.8	2.298	3.279	1.9	21.5
2 11	8 40.40	+24 25.8	2.325	3.284	4.9	21.7
2 21	8 31.81	+24 56.5	2.382	3.288	8.1	21.9
3 2	8 24.93	+25 15.8	2.465	3.291	11.0	22.1

351253 2004 RZ_{75} 1 31.0 135.°33 3.°6/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 25.36	+24 58.0	1.906	2.684	15.3	21.7
1 2	9 19.95	+25 45.8	1.832	2.698	12.0	21.5
1 12	9 11.70	+26 37.7	1.782	2.712	8.3	21.3
1 22	9 1.28	+27 27.0	1.758	2.725	4.8	21.1
2 1	8 49.76	+28 6.6	1.763	2.737	3.9	21.1
2 11	8 38.49	+28 31.5	1.798	2.749	6.8	21.3
2 21	8 28.71	+28 39.9	1.861	2.759	10.4	21.5
3 2	8 21.37	+28 32.6	1.948	2.769	13.7	21.7

235600 2004 PV_{55} 1 31.0 135.°94 0.°2/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.81	+13 26.1	1.856	2.620	16.2	21.4
1 2	9 16.34	+14 6.0	1.776	2.632	12.8	21.2
1 12	9 9.25	+15 0.2	1.717	2.645	8.8	21.0
1 22	9 0.12	+16 4.4	1.685	2.656	4.3	20.7
2 1	8 49.89	+17 12.7	1.682	2.667	0.5	20.5
2 11	8 39.79	+18 18.3	1.709	2.677	5.1	20.8
2 21	8 30.96	+19 15.7	1.764	2.687	9.4	21.1
3 2	8 24.31	+20 1.7	1.845	2.696	13.1	21.3

244547 2002 UO_{78} 1 31.0 57.°19 2.°6/ 1.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.26	+ 8 57.2	2.147	2.897	14.7	20.7
1 2	9 11.57	+ 8 50.6	2.062	2.905	11.9	20.5
1 12	9 5.77	+ 8 57.0	1.998	2.913	8.6	20.3
1 22	8 58.35	+ 9 15.3	1.961	2.922	5.1	20.1
2 1	8 50.10	+ 9 43.1	1.951	2.930	2.6	20.0
2 11	8 41.94	+10 16.9	1.971	2.939	4.5	20.1
2 21	8 34.77	+10 52.6	2.019	2.948	8.0	20.3
3 2	8 29.34	+11 26.6	2.093	2.957	11.2	20.6

88638 2001 RL_{46} 1 31.0 171.°50 7.°2/ 4.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.28	− 2 39.9	1.901	2.607	17.7	20.0
1 2	9 11.99	− 3 12.1	1.809	2.608	15.2	19.8
1 12	9 6.30	− 3 22.6	1.736	2.608	12.3	19.6
1 22	8 58.72	− 3 8.9	1.685	2.608	9.4	19.4
2 1	8 50.05	− 2 31.0	1.660	2.608	7.4	19.3
2 11	8 41.36	− 1 32.1	1.662	2.608	7.7	19.3
2 21	8 33.70	− 0 18.2	1.690	2.608	10.0	19.5
3 2	8 27.96	+ 1 3.2	1.743	2.608	13.0	19.7

17247 Vanverst 1 31.0 170.°24 0.°9/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 20.73	+12 20.0	1.920	2.678	15.9	19.5
1 2	9 16.27	+12 44.2	1.830	2.682	12.7	19.3
1 12	9 9.23	+13 22.5	1.762	2.686	8.9	19.1
1 22	9 0.14	+14 11.9	1.720	2.689	4.6	18.8
2 1	8 49.91	+15 7.6	1.706	2.691	0.9	18.6
2 11	8 39.70	+16 3.6	1.723	2.692	4.9	18.8
2 21	8 30.66	+16 54.9	1.768	2.693	9.2	19.1
3 2	8 23.73	+17 37.8	1.839	2.693	13.0	19.3

393705 2004 TE_{163} 1 31.0 151.°38 1.°8/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 23.28	+20 6.1	2.058	2.827	14.6	22.0
1 2	9 18.09	+20 46.3	1.976	2.838	11.5	21.8
1 12	9 10.34	+21 34.1	1.918	2.848	7.8	21.6
1 22	9 0.63	+22 24.3	1.886	2.858	3.9	21.4
2 1	8 49.87	+23 11.1	1.884	2.866	2.0	21.3
2 11	8 39.24	+23 49.3	1.913	2.874	5.5	21.5
2 21	8 29.86	+24 15.6	1.970	2.880	9.3	21.8
3 2	8 22.61	+24 29.4	2.053	2.886	12.7	22.0