145913 1999 US_{24} 1 26.9 168°.73 2°.1/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.51	+12 7.0	1.823	2.614	15.4	20.7
1 2	8 59.29	+12 9.5	1.742	2.620	11.9	20.5
1 12	8 50.52	+12 24.3	1.684	2.624	7.8	20.3
1 22	8 39.96	+12 49.2	1.653	2.628	3.6	20.0
2 1	8 28.69	+13 20.4	1.651	2.631	2.8	20.0
2 11	8 18.00	+13 53.5	1.679	2.633	6.9	20.2
2 21	8 9.04	+14 24.8	1.735	2.634	11.1	20.5
3 2	8 2.61	+14 51.6	1.815	2.634	14.6	20.7

377940 2006 HT_{59} 1 26.9 236°.86 4°.8/23.2 17

12 23	9 0.96	+31 16.9	2.421	3.236	11.3	21.1
1 2	8 55.74	+32 27.4	2.337	3.226	8.7	20.9
1 12	8 48.29	+33 37.1	2.278	3.216	6.2	20.7
1 22	8 39.21	+34 39.5	2.248	3.206	4.8	20.6
2 1	8 29.40	+35 28.6	2.248	3.196	5.8	20.6
2 11	8 19.95	+36 0.6	2.276	3.185	8.2	20.8
2 21	8 11.87	+36 14.4	2.331	3.173	10.9	20.9
3 2	8 5.93	+36 11.4	2.408	3.162	13.4	21.1

268456 2005 WR_{93} 1 26.9 24°.27 2°.5/25.4 18

12 23	8 56.01	+18 37.9	1.286	2.131	17.5	19.2
1 2	8 52.95	+20 9.6	1.234	2.146	13.0	19.0
1 12	8 46.90	+21 54.6	1.204	2.162	7.9	18.7
1 22	8 38.77	+23 42.9	1.199	2.179	3.2	18.5
2 1	8 29.92	+25 22.9	1.221	2.198	4.4	18.6
2 11	8 21.95	+26 45.5	1.269	2.218	9.2	19.0
2 21	8 16.14	+27 46.0	1.340	2.238	13.7	19.3
3 2	8 13.35	+28 23.7	1.432	2.260	17.4	19.6

245452 2005 LD_{3} 1 26.9 206°.65 8°.7/ 4.0 17

12 23	8 55.71	−15 36.4	3.043	3.666	13.1	21.6
1 2	8 51.17	−16 17.3	2.947	3.661	11.8	21.5
1 12	8 45.15	−16 38.8	2.871	3.656	10.5	21.4
1 22	8 38.09	−16 38.4	2.816	3.650	9.3	21.3
2 1	8 30.57	−16 15.0	2.787	3.645	8.7	21.2
2 11	8 23.27	−15 30.1	2.784	3.638	8.9	21.2
2 21	8 16.82	−14 27.1	2.806	3.632	9.8	21.3
3 2	8 11.77	−13 10.8	2.853	3.625	11.1	21.4

490401 2009 RY_{1} 1 26.9 101°.98 1°.4/27.9 18

12 23	9 0.75	+12 39.1	2.110	2.903	13.5	21.9
1 2	8 55.27	+12 54.7	2.042	2.923	10.3	21.7
1 12	8 47.79	+13 20.9	1.999	2.942	6.6	21.5
1 22	8 38.98	+13 55.0	1.983	2.960	2.8	21.3
2 1	8 29.74	+14 33.3	1.998	2.978	2.2	21.3
2 11	8 21.09	+15 11.7	2.042	2.996	5.8	21.6
2 21	8 13.87	+15 46.9	2.114	3.014	9.3	21.8
3 2	8 8.71	+16 16.6	2.211	3.030	12.4	22.1

169830 2002 QW_{78} 1 26.9 136°.91 1°.3/26.2 18

12 23	9 1.52	+22 16.6	2.351	3.159	11.8	20.7
1 2	8 55.81	+22 29.8	2.273	3.165	8.9	20.5
1 12	8 48.12	+22 45.5	2.221	3.171	5.5	20.3
1 22	8 39.09	+23 0.4	2.197	3.176	2.1	20.1
2 1	8 29.61	+23 10.9	2.204	3.182	2.6	20.1
2 11	8 20.66	+23 14.8	2.241	3.187	6.0	20.3
2 21	8 13.08	+23 11.0	2.306	3.192	9.3	20.6
3 2	8 7.51	+22 59.7	2.395	3.196	12.1	20.7

132551 2002 JY_{75} 1 26.9 211°.94 2°.6/28.4 18

12 23	9 1.70	+10 24.0	1.923	2.713	14.7	20.4
1 2	8 56.42	+10 24.3	1.832	2.708	11.5	20.2
1 12	8 48.77	+10 37.9	1.764	2.702	7.8	19.9
1 22	8 39.40	+11 3.2	1.723	2.696	3.9	19.7
2 1	8 29.27	+11 37.2	1.711	2.689	3.1	19.6
2 11	8 19.56	+12 15.7	1.728	2.682	6.7	19.8
2 21	8 11.33	+12 54.5	1.772	2.674	10.7	20.1
3 2	8 5.40	+13 29.9	1.841	2.666	14.2	20.3

180743 2004 LR_{3} 1 26.9 264°.04 5°.6/30.5 18

12 23	8 57.82	+ 1 41.3	1.984	2.745	15.4	20.6
1 2	8 53.50	+ 1 33.1	1.884	2.731	12.7	20.4
1 12	8 46.98	+ 1 44.5	1.806	2.717	9.6	20.2
1 22	8 38.81	+ 2 16.2	1.753	2.703	6.7	20.0
2 1	8 29.84	+ 3 6.8	1.727	2.689	5.6	19.9
2 11	8 21.15	+ 4 11.9	1.729	2.674	7.6	20.0
2 21	8 13.74	+ 5 25.6	1.759	2.660	10.8	20.1
3 2	8 8.44	+ 6 41.7	1.813	2.645	14.1	20.3

467567 2007 TV_{286} 1 26.9 67°.17 3°.0/24.9 18

12 23	8 59.34	+25 25.4	2.166	2.987	12.3	20.8
1 2	8 54.39	+26 18.5	2.102	3.000	9.2	20.6
1 12	8 47.34	+27 13.6	2.063	3.013	5.9	20.4
1 22	8 38.85	+28 4.8	2.052	3.026	3.2	20.3
2 1	8 29.88	+28 47.0	2.071	3.039	4.1	20.4
2 11	8 21.49	+29 16.6	2.118	3.053	7.1	20.6
2 21	8 14.57	+29 32.2	2.193	3.066	10.3	20.8
3 2	8 9.79	+29 34.5	2.290	3.079	13.0	21.0

248086 2004 RD_{1} 1 26.9 94°.10 1°.5/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.04	+20 12.7	2.175	2.983	12.7	21.8
1 2	8 56.22	+21 5.5	2.118	3.010	9.4	21.6
1 12	8 48.37	+22 3.6	2.086	3.036	5.8	21.5
1 22	8 39.18	+23 1.7	2.083	3.062	2.2	21.3
2 1	8 29.60	+23 54.6	2.110	3.088	2.8	21.4
2 11	8 20.66	+24 38.2	2.168	3.113	6.3	21.6
2 21	8 13.22	+25 10.3	2.254	3.137	9.6	21.9
3 2	8 7.90	+25 30.8	2.365	3.161	12.4	22.1

430811 2005 ED_{123} 1 26.9 130°.98 0°.9/26.5 18

12 23	9 0.72	+20 56.1	2.361	3.168	11.8	21.1
1 2	8 55.21	+21 7.7	2.282	3.174	8.8	20.9
1 12	8 47.76	+21 22.9	2.229	3.179	5.5	20.7
1 22	8 39.00	+21 38.2	2.204	3.184	1.9	20.5
2 1	8 29.78	+21 50.7	2.210	3.190	2.3	20.5
2 11	8 21.07	+21 57.6	2.246	3.195	5.8	20.7
2 21	8 13.69	+21 57.9	2.310	3.199	9.1	21.0
3 2	8 8.27	+21 51.3	2.399	3.204	12.0	21.2

410281 2007 TD_{196} 1 26.9 195°.62 1°.0/27.6 18

12 23	9 2.38	+13 59.0	2.084	2.879	13.6	22.8
1 2	8 56.77	+14 19.5	1.994	2.876	10.4	22.6
1 12	8 48.92	+14 50.5	1.929	2.873	6.7	22.3
1 22	8 39.45	+15 29.2	1.891	2.869	2.6	22.1
2 1	8 29.28	+16 11.4	1.883	2.865	2.2	22.0
2 11	8 19.53	+16 52.7	1.906	2.859	6.3	22.3
2 21	8 11.19	+17 29.5	1.957	2.853	10.1	22.5
3 2	8 5.04	+17 59.5	2.032	2.846	13.5	22.7

190215 2006 BR_{92} 1 27.0 29°.07 0°.6/26.7 18

12 23	9 0.96	+19 35.4	1.933	2.748	13.7	20.1
1 2	8 55.81	+19 45.4	1.854	2.749	10.3	19.9
1 12	8 48.34	+20 1.1	1.799	2.750	6.4	19.7
1 22	8 39.24	+20 18.9	1.771	2.752	2.2	19.4
2 1	8 29.53	+20 34.7	1.772	2.753	2.4	19.4
2 11	8 20.40	+20 45.4	1.803	2.755	6.7	19.7
2 21	8 12.86	+20 49.1	1.860	2.756	10.6	19.9
3 2	8 7.66	+20 45.4	1.940	2.758	13.9	20.1

500386 2012 TP_{81} 1 27.0 159°.92 3°.7/24.0 17

12 23	9 1.16	+31 5.4	2.962	3.768	9.7	22.6
1 2	8 55.32	+31 50.0	2.889	3.774	7.4	22.4
1 12	8 47.74	+32 32.1	2.842	3.780	5.1	22.3
1 22	8 38.98	+33 7.5	2.825	3.786	3.7	22.2
2 1	8 29.80	+33 32.3	2.838	3.791	4.4	22.2
2 11	8 21.05	+33 44.4	2.882	3.796	6.5	22.4
2 21	8 13.47	+33 43.5	2.954	3.800	8.8	22.5
3 2	8 7.64	+33 30.9	3.049	3.803	10.8	22.7

424084 2007 DN_{48} 1 27.0 253°.11 11°.4/25.0 16

12 23	9 26.66	+41 57.7	1.144	1.959	21.2	20.7
1 2	9 17.72	+42 29.3	1.076	1.954	17.5	20.4
1 12	9 3.09	+42 41.2	1.026	1.948	13.9	20.2
1 22	8 44.39	+42 16.8	0.999	1.943	11.6	20.0
2 1	8 24.57	+41 5.0	0.997	1.937	12.2	20.1
2 11	8 7.03	+39 7.9	1.019	1.931	15.5	20.2
2 21	7 54.13	+36 39.3	1.064	1.925	19.6	20.4
3 2	7 46.84	+33 55.7	1.128	1.919	23.4	20.7

364246 2006 SD_{206} 1 27.0 61°.98 8°.6/ 1.6 18

12 23	8 58.48	− 4 32.3	1.639	2.382	18.8	21.0
1 2	8 54.09	− 4 59.3	1.574	2.398	15.9	20.8
1 12	8 47.31	− 4 58.8	1.528	2.414	12.7	20.7
1 22	8 38.90	− 4 29.1	1.504	2.431	9.9	20.6
2 1	8 29.92	− 3 31.6	1.505	2.448	8.6	20.5
2 11	8 21.58	− 2 12.2	1.533	2.465	9.6	20.6
2 21	8 14.93	− 0 39.4	1.586	2.482	12.1	20.8
3 2	8 10.70	+ 0 58.1	1.662	2.499	15.0	21.0

156105 2001 SK_{242} 1 27.0 83°.70 1°.4/27.8 18

12 23	9 1.54	+12 37.1	1.443	2.259	17.5	20.0
1 2	8 56.84	+13 4.0	1.375	2.267	13.4	19.7
1 12	8 49.25	+13 47.5	1.327	2.275	8.6	19.5
1 22	8 39.61	+14 43.4	1.305	2.283	3.5	19.2
2 1	8 29.20	+15 45.3	1.310	2.292	2.7	19.2
2 11	8 19.52	+16 45.8	1.342	2.300	7.8	19.5
2 21	8 11.87	+17 39.3	1.400	2.308	12.5	19.8
3 2	8 7.14	+18 22.2	1.479	2.316	16.5	20.1

276403 2002 XF_{87} 1 27.0 95°.79 3°.1/25.6 17

12 23	9 8.01	+23 46.4	1.472	2.297	16.8	19.9
1 2	9 1.61	+24 30.1	1.417	2.317	12.6	19.7
1 12	8 52.11	+25 17.5	1.385	2.337	7.9	19.5
1 22	8 40.53	+26 0.8	1.379	2.357	3.6	19.3
2 1	8 28.37	+26 32.8	1.401	2.376	4.6	19.4
2 11	8 17.31	+26 49.3	1.451	2.394	8.9	19.7
2 21	8 8.64	+26 49.9	1.526	2.413	13.1	20.0
3 2	8 3.18	+26 36.6	1.622	2.430	16.6	20.3

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
294519 2007 XB_{18}			1 27.0	126°.20	1°.8/25.6	18
	h m	° ′			°	m
12 23	8 57.81	+21 55.4	2.508	3.319	11.1	21.0
1 2	8 53.04	+22 47.4	2.431	3.325	8.2	20.8
1 12	8 46.44	+23 43.8	2.381	3.331	5.1	20.6
1 22	8 38.58	+24 40.1	2.359	3.337	2.2	20.4
2 1	8 30.23	+25 31.5	2.368	3.343	2.9	20.5
2 11	8 22.28	+26 14.4	2.408	3.348	6.0	20.7
2 21	8 15.51	+26 46.4	2.475	3.354	9.0	20.9
3 2	8 10.54	+27 7.1	2.567	3.359	11.6	21.1
28443 Crisara			1 27.0	268°.45	0°.8/27.4	18
12 23	9 2.16	+15 1.2	1.490	2.308	16.9	19.4
1 2	8 57.57	+15 17.8	1.400	2.295	13.0	19.1
1 12	8 49.93	+15 48.1	1.331	2.282	8.4	18.8
1 22	8 39.93	+16 28.5	1.288	2.268	3.1	18.4
2 1	8 28.81	+17 13.6	1.272	2.254	2.7	18.4
2 11	8 18.14	+17 56.9	1.284	2.240	8.2	18.7
2 21	8 9.39	+18 33.5	1.320	2.226	13.3	18.9
3 2	8 3.66	+19 0.6	1.378	2.212	17.6	19.1
250130 2002 QC_{27}			1 27.0	113°.67	0°.1/26.9	18
12 23	9 2.45	+16 17.1	1.922	2.727	14.2	21.6
1 2	8 56.82	+16 52.4	1.854	2.744	10.7	21.4
1 12	8 48.90	+17 37.3	1.811	2.760	6.6	21.2
1 22	8 39.43	+18 27.0	1.796	2.776	2.2	20.9
2 1	8 29.44	+19 16.5	1.810	2.791	2.2	21.0
2 11	8 20.09	+20 0.9	1.854	2.806	6.5	21.3
2 21	8 12.37	+20 36.9	1.926	2.821	10.3	21.5
3 2	8 6.98	+21 3.2	2.021	2.835	13.6	21.8
431614 2007 VO_{276}			1 27.0	299°.70	3°.4/28.9	17
12 23	8 57.80	+ 8 22.6	2.261	3.042	13.1	21.0
1 2	8 53.13	+ 8 3.5	2.171	3.038	10.4	20.8
1 12	8 46.56	+ 7 56.0	2.104	3.033	7.3	20.6
1 22	8 38.66	+ 7 59.8	2.063	3.029	4.3	20.4
2 1	8 30.20	+ 8 13.3	2.052	3.025	3.6	20.3
2 11	8 22.10	+ 8 33.9	2.071	3.021	6.0	20.5
2 21	8 15.20	+ 8 58.4	2.117	3.018	9.2	20.6
3 2	8 10.17	+ 9 23.8	2.187	3.014	12.2	20.8
167092 2003 ST_{24}			1 27.0	66°.84	4°.4/29.0	18
12 23	9 2.76	+ 8 16.1	1.489	2.287	17.9	19.6
1 2	8 57.47	+ 7 49.8	1.427	2.304	14.1	19.4
1 12	8 49.47	+ 7 40.9	1.387	2.321	9.8	19.2
1 22	8 39.66	+ 7 48.6	1.371	2.339	5.7	19.0
2 1	8 29.27	+ 8 10.3	1.382	2.356	4.6	19.0
2 11	8 19.73	+ 8 41.3	1.420	2.374	7.9	19.2
2 21	8 12.19	+ 9 16.3	1.483	2.391	12.0	19.5
3 2	8 7.41	+ 9 50.9	1.569	2.408	15.6	19.7
322220 2011 AB_{69}			1 27.0	345°.47	1°.1/27.7	18
12 23	8 58.20	+13 28.4	1.847	2.656	14.5	21.1
1 2	8 53.87	+13 51.7	1.765	2.654	11.1	20.8
1 12	8 47.23	+14 27.6	1.706	2.653	7.1	20.6
1 22	8 38.92	+15 13.0	1.673	2.652	2.8	20.3
2 1	8 29.93	+16 3.1	1.669	2.651	2.3	20.3
2 11	8 21.41	+16 52.7	1.694	2.650	6.6	20.6
2 21	8 14.40	+17 37.3	1.745	2.649	10.7	20.8
3 2	8 9.68	+18 14.2	1.820	2.649	14.2	21.0
500043 2011 SJ_{201}			1 27.0	200°.00	5°.8/ 2.1	17
12 23	8 54.96	− 7 44.6	3.354	4.030	11.2	22.9
1 2	8 50.46	− 7 47.6	3.252	4.026	9.6	22.8
1 12	8 44.66	− 7 34.4	3.172	4.021	8.0	22.7
1 22	8 37.97	− 7 4.3	3.118	4.016	6.5	22.6
2 1	8 30.90	− 6 17.9	3.092	4.010	5.8	22.5
2 11	8 24.03	− 5 17.4	3.096	4.004	6.3	22.6
2 21	8 17.91	− 4 6.6	3.129	3.997	7.7	22.6
3 2	8 13.00	− 2 49.5	3.188	3.990	9.4	22.7
124451 2001 QU_{269}			1 27.0	99°.79	1°.0/27.6	17
12 23	9 3.96	+12 57.1	1.551	2.359	16.9	20.5
1 2	8 58.36	+13 34.6	1.490	2.379	12.8	20.3
1 12	8 50.04	+14 27.3	1.451	2.398	8.2	20.1
1 22	8 39.86	+15 30.0	1.439	2.418	3.1	19.8
2 1	8 29.08	+16 36.1	1.455	2.437	2.5	19.8
2 11	8 19.13	+17 38.6	1.499	2.455	7.4	20.2
2 21	8 11.17	+18 32.5	1.570	2.473	11.8	20.5
3 2	8 6.01	+19 15.1	1.664	2.490	15.5	20.7
282474 2004 GZ_{28}			1 27.0	270°.73	2°.0/27.9	18
12 23	9 2.35	+13 2.5	1.471	2.285	17.3	20.9
1 2	8 57.74	+13 3.3	1.380	2.271	13.5	20.7
1 12	8 50.07	+13 18.7	1.310	2.257	8.9	20.4
1 22	8 40.01	+13 46.5	1.264	2.242	3.9	20.0
2 1	8 28.80	+14 22.4	1.246	2.227	3.1	19.9
2 11	8 18.03	+15 0.8	1.254	2.212	8.2	20.2
2 21	8 9.17	+15 36.5	1.288	2.197	13.3	20.4
3 2	8 3.33	+16 5.9	1.343	2.181	17.8	20.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
158976 2004 RL_{292}			1 27.0	72°.45	1°.2/27.7	18
	h m	° ′			°	m
12 23	8 59.98	+14 14.5	1.922	2.727	14.2	20.3
1 2	8 55.01	+14 19.0	1.847	2.734	10.8	20.1
1 12	8 47.82	+14 33.5	1.795	2.741	6.9	19.9
1 22	8 39.10	+14 55.5	1.770	2.749	2.8	19.6
2 1	8 29.82	+15 21.4	1.775	2.756	2.3	19.6
2 11	8 21.12	+15 47.4	1.808	2.763	6.3	19.9
2 21	8 13.94	+16 10.5	1.868	2.771	10.2	20.1
3 2	8 9.01	+16 28.5	1.952	2.778	13.5	20.4
109378 2001 QN_{163}			1 27.0	129°.41	5°.3/31.0	18
12 23	8 59.38	+ 0 2.6	2.233	2.974	14.4	20.1
1 2	8 54.22	+ 0 3.8	2.156	2.988	11.8	20.0
1 12	8 47.18	+ 0 23.8	2.101	3.002	9.0	19.8
1 22	8 38.86	+ 1 2.4	2.071	3.015	6.4	19.7
2 1	8 30.07	+ 1 57.3	2.071	3.028	5.3	19.6
2 11	8 21.72	+ 3 4.1	2.100	3.040	6.8	19.7
2 21	8 14.65	+ 4 17.2	2.157	3.052	9.4	19.9
3 2	8 9.45	+ 5 31.3	2.240	3.062	12.1	20.1
34181 Patnaik			1 27.0	4°.22	1°.3/27.5	18
12 23	8 58.56	+15 8.6	1.143	1.985	19.4	18.2
1 2	8 55.28	+15 7.1	1.076	1.984	14.9	17.9
1 12	8 48.62	+15 20.6	1.029	1.984	9.6	17.6
1 22	8 39.50	+15 45.5	1.005	1.985	3.7	17.2
2 1	8 29.41	+16 16.2	1.005	1.987	3.1	17.2
2 11	8 20.20	+16 46.4	1.029	1.991	8.9	17.6
2 21	8 13.39	+17 11.2	1.077	1.995	14.3	17.9
3 2	8 9.99	+17 27.5	1.143	2.001	18.9	18.2
45558 2000 CR_{52}			1 27.0	127°.51	1°.3/26.3	18
12 23	9 1.72	+22 12.2	2.344	3.152	11.9	19.0
1 2	8 55.97	+22 24.8	2.268	3.159	8.9	18.8
1 12	8 48.26	+22 40.0	2.217	3.167	5.5	18.6
1 22	8 39.22	+22 54.2	2.194	3.174	2.1	18.4
2 1	8 29.73	+23 4.2	2.203	3.181	2.5	18.4
2 11	8 20.78	+23 7.6	2.241	3.188	6.0	18.6
2 21	8 13.22	+23 3.5	2.307	3.194	9.2	18.9
3 2	8 7.66	+22 52.1	2.399	3.200	12.1	19.1
221079 2005 SX_{32}			1 27.0	185°.25	1°.5/28.1	17
12 23	9 0.00	+11 36.9	2.495	3.277	12.0	22.1
1 2	8 54.64	+11 57.2	2.404	3.277	9.2	21.9
1 12	8 47.45	+12 27.8	2.337	3.276	6.1	21.7
1 22	8 38.97	+13 6.7	2.300	3.275	2.7	21.5
2 1	8 29.95	+13 50.6	2.293	3.273	2.1	21.4
2 11	8 21.27	+14 35.7	2.318	3.271	5.3	21.6
2 21	8 13.72	+15 18.6	2.371	3.267	8.6	21.8
3 2	8 7.94	+15 56.8	2.451	3.263	11.5	22.0
124165 2001 ON_{16}			1 27.0	81°.94	4°.0/24.9	18
12 23	9 10.10	+24 57.2	1.528	2.348	16.5	19.6
1 2	9 2.94	+26 14.9	1.489	2.386	12.3	19.4
1 12	8 52.79	+27 34.3	1.473	2.423	7.8	19.2
1 22	8 40.75	+28 45.7	1.485	2.459	4.3	19.1
2 1	8 28.32	+29 40.9	1.526	2.494	5.4	19.2
2 11	8 17.11	+30 15.6	1.595	2.528	9.1	19.5
2 21	8 8.35	+30 30.0	1.689	2.561	12.8	19.8
3 2	8 2.74	+30 27.1	1.805	2.594	15.9	20.1
283970 2004 RN_{83}			1 27.0	60°.30	0°.4/27.2	16
12 23	9 3.38	+15 6.7	1.299	2.125	18.5	21.2
1 2	8 58.26	+15 37.9	1.249	2.149	14.0	20.9
1 12	8 50.08	+16 23.4	1.220	2.172	8.7	20.7
1 22	8 39.89	+17 17.2	1.216	2.196	3.0	20.4
2 1	8 29.14	+18 11.9	1.238	2.220	2.8	20.5
2 11	8 19.47	+19 0.6	1.288	2.245	8.1	20.9
2 21	8 12.15	+19 39.1	1.361	2.269	12.8	21.2
3 2	8 7.94	+20 5.5	1.457	2.293	16.7	21.5
439936 2001 SS_{37}			1 27.0	100°.58	6°.6/23.9	17
12 23	9 12.84	+33 39.2	1.677	2.492	15.5	21.7
1 2	9 5.08	+34 47.1	1.633	2.519	12.0	21.5
1 12	8 54.17	+35 48.1	1.611	2.546	8.7	21.4
1 22	8 41.24	+36 32.7	1.617	2.572	6.7	21.3
2 1	8 27.85	+36 53.9	1.651	2.597	7.6	21.4
2 11	8 15.72	+36 49.9	1.713	2.622	10.4	21.6
2 21	8 6.15	+36 23.7	1.799	2.645	13.5	21.9
3 2	7 59.88	+35 40.6	1.906	2.668	16.2	22.1
20182 1997 AS			1 27.0	204°.10	0°.6/26.6	18
12 23	9 2.01	+17 42.8	2.101	2.906	13.2	19.1
1 2	8 56.59	+18 23.4	2.012	2.901	9.9	18.9
1 12	8 48.88	+19 12.8	1.946	2.896	6.2	18.6
1 22	8 39.51	+20 6.7	1.910	2.890	2.1	18.4
2 1	8 29.41	+20 59.7	1.903	2.883	2.4	18.4
2 11	8 19.69	+21 46.9	1.927	2.876	6.5	18.6
2 21	8 11.39	+22 24.9	1.978	2.868	10.4	18.8
3 2	8 5.29	+22 52.3	2.054	2.860	13.7	19.0

371686 2007 DB_{42} 1 27.0 312°.99 9°.4/22.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.47	+40 29.8	1.646	2.463	15.6	19.9
1 2	9 2.75	+41 28.1	1.566	2.444	12.9	19.7
1 12	8 53.32	+42 15.8	1.507	2.426	10.5	19.5
1 22	8 41.13	+42 42.1	1.473	2.407	9.4	19.4
2 1	8 27.81	+42 38.2	1.464	2.390	10.4	19.4
2 11	8 15.38	+42 1.2	1.480	2.372	13.0	19.5
2 21	8 5.56	+40 54.5	1.519	2.355	16.1	19.6
3 2	7 59.45	+39 25.4	1.578	2.339	19.0	19.8

213635 2002 QZ_{120} 1 27.0 228°.63 0°.6/26.7 18

12 23	9 1.89	+17 58.9	2.029	2.836	13.5	21.5
1 2	8 56.63	+18 33.8	1.935	2.826	10.2	21.2
1 12	8 48.98	+19 17.4	1.865	2.815	6.4	21.0
1 22	8 39.57	+20 5.6	1.823	2.804	2.2	20.7
2 1	8 29.34	+20 53.1	1.811	2.792	2.5	20.7
2 11	8 19.48	+21 35.0	1.829	2.779	6.8	20.9
2 21	8 11.06	+22 8.1	1.874	2.766	10.8	21.2
3 2	8 4.93	+22 30.7	1.943	2.752	14.2	21.3

465932 2010 XV_{55} 1 27.0 2°.25 4°.9/22.9 18

12 23	8 59.43	+20 47.2	1.532	2.364	15.8	20.2
1 2	8 55.67	+23 40.5	1.458	2.363	11.8	19.9
1 12	8 48.87	+26 51.1	1.410	2.363	7.6	19.7
1 22	8 39.65	+30 4.6	1.391	2.363	4.9	19.5
2 1	8 29.19	+33 4.2	1.404	2.364	6.9	19.6
2 11	8 19.08	+35 35.9	1.445	2.366	11.0	19.9
2 21	8 10.85	+37 33.1	1.512	2.368	15.0	20.1
3 2	8 5.67	+38 55.6	1.600	2.371	18.4	20.3

284775 2008 WP_{138} 1 27.0 118°.99 1°.2/27.7 17

12 23	9 4.89	+13 10.3	1.851	2.646	15.1	21.6
1 2	8 58.66	+13 35.5	1.785	2.667	11.5	21.4
1 12	8 50.05	+14 12.8	1.744	2.688	7.3	21.2
1 22	8 39.86	+14 58.2	1.730	2.707	2.9	21.0
2 1	8 29.16	+15 46.9	1.745	2.726	2.3	20.9
2 11	8 19.17	+16 33.7	1.791	2.745	6.5	21.3
2 21	8 10.92	+17 14.9	1.864	2.762	10.5	21.5
3 2	8 5.11	+17 48.1	1.961	2.778	13.8	21.8

110099 2001 SY_{124} 1 27.0 162°.38 1°.6/28.2 18

12 23	8 57.48	+11 36.1	2.784	3.565	10.9	20.6
1 2	8 52.53	+11 46.4	2.697	3.570	8.4	20.4
1 12	8 46.03	+12 5.5	2.636	3.574	5.5	20.2
1 22	8 38.47	+12 31.6	2.604	3.578	2.6	20.0
2 1	8 30.50	+13 2.4	2.602	3.581	2.0	20.0
2 11	8 22.86	+13 34.9	2.631	3.585	4.8	20.2
2 21	8 16.21	+14 6.6	2.690	3.587	7.7	20.4
3 2	8 11.10	+14 35.2	2.775	3.590	10.3	20.5

89200 2001 UH_{84} 1 27.0 195°.90 2°.3/28.2 18

12 23	9 4.48	+11 48.8	1.897	2.687	14.9	20.0
1 2	8 58.55	+11 42.1	1.808	2.685	11.6	19.7
1 12	8 50.14	+11 47.1	1.743	2.682	7.7	19.5
1 22	8 39.95	+12 2.0	1.704	2.678	3.7	19.2
2 1	8 29.00	+12 24.0	1.695	2.674	2.9	19.2
2 11	8 18.53	+12 49.4	1.715	2.668	6.8	19.4
2 21	8 9.65	+13 14.6	1.763	2.662	10.9	19.6
3 2	8 3.18	+13 37.0	1.835	2.656	14.5	19.9

174110 2002 JE_{65} 1 27.0 211°.34 0°.3/26.8 18

12 23	9 2.32	+17 16.7	2.020	2.825	13.6	21.0
1 2	8 56.90	+17 47.8	1.930	2.819	10.3	20.7
1 12	8 49.12	+18 27.8	1.864	2.813	6.4	20.5
1 22	8 39.62	+19 12.7	1.825	2.806	2.2	20.2
2 1	8 29.35	+19 57.6	1.817	2.798	2.3	20.2
2 11	8 19.48	+20 37.7	1.838	2.789	6.6	20.5
2 21	8 11.09	+21 9.8	1.887	2.780	10.6	20.7
3 2	8 4.99	+21 32.2	1.960	2.771	14.1	20.9

325671 2009 TU_{2} 1 27.0 147°.57 2°.3/28.7 18

12 23	8 58.91	+ 9 1.2	2.137	2.921	13.7	21.5
1 2	8 54.06	+ 9 26.9	2.055	2.927	10.6	21.3
1 12	8 47.20	+10 7.0	1.996	2.932	7.1	21.1
1 22	8 38.92	+10 59.0	1.965	2.938	3.6	20.9
2 1	8 30.08	+11 59.1	1.964	2.943	2.7	20.8
2 11	8 21.67	+13 2.2	1.993	2.947	5.9	21.0
2 21	8 14.56	+14 3.4	2.050	2.952	9.5	21.2
3 2	8 9.44	+14 59.0	2.132	2.956	12.6	21.4

243797 2000 SW_{112} 1 27.0 141°.59 0°.5/27.3 18

12 23	9 3.79	+15 15.2	1.928	2.728	14.3	21.6
1 2	8 57.88	+15 39.9	1.855	2.740	10.9	21.4
1 12	8 49.63	+16 14.7	1.805	2.751	6.8	21.2
1 22	8 39.76	+16 55.6	1.782	2.762	2.5	20.9
2 1	8 29.30	+17 38.1	1.790	2.772	2.2	20.9
2 11	8 19.45	+18 17.4	1.828	2.781	6.5	21.2
2 21	8 11.22	+18 50.3	1.893	2.789	10.4	21.5
3 2	8 5.37	+19 15.0	1.982	2.797	13.8	21.7

369532 2010 XV_{56} 1 27.0 324°.44 0°.5/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 59.46	+18 23.6	1.545	2.373	15.9	20.7
1 2	8 55.41	+18 40.3	1.460	2.361	12.1	20.4
1 12	8 48.51	+19 6.5	1.396	2.350	7.6	20.1
1 22	8 39.48	+19 38.0	1.359	2.339	2.6	19.8
2 1	8 29.51	+20 9.1	1.348	2.329	2.8	19.8
2 11	8 20.07	+20 34.9	1.364	2.320	7.9	20.1
2 21	8 12.48	+20 51.9	1.405	2.310	12.7	20.3
3 2	8 7.73	+20 58.7	1.468	2.302	16.7	20.5

378311 2007 FR_{36} 1 27.0 222°.01 6°.6/31.9 17

12 23	8 57.45	− 4 6.2	2.484	3.198	13.8	21.5
1 2	8 52.80	− 4 23.0	2.383	3.190	11.7	21.3
1 12	8 46.37	− 4 21.1	2.304	3.181	9.4	21.2
1 22	8 38.65	− 3 59.1	2.251	3.172	7.4	21.0
2 1	8 30.35	− 3 17.4	2.225	3.162	6.6	20.9
2 11	8 22.29	− 2 19.1	2.227	3.152	7.5	21.0
2 21	8 15.26	− 1 8.7	2.258	3.141	9.6	21.1
3 2	8 9.90	+ 0 8.1	2.314	3.130	12.0	21.2

136331 2004 BG_{108} 1 27.0 264°.89 2°.3/25.4 17

12 23	8 58.96	+23 54.7	2.454	3.267	11.2	19.6
1 2	8 54.12	+24 35.9	2.357	3.252	8.5	19.4
1 12	8 47.28	+25 20.6	2.286	3.236	5.4	19.2
1 22	8 38.98	+26 4.2	2.244	3.221	2.6	19.0
2 1	8 30.02	+26 42.2	2.232	3.205	3.4	19.0
2 11	8 21.35	+27 10.8	2.250	3.189	6.5	19.2
2 21	8 13.87	+27 28.1	2.295	3.172	9.7	19.3
3 2	8 8.30	+27 34.0	2.365	3.156	12.5	19.5

499739 2011 BV_{61} 1 27.0 330°.75 0°.8/27.5 18

12 23	8 56.11	+12 26.8	1.687	2.501	15.4	20.8
1 2	8 52.64	+13 20.3	1.599	2.492	11.8	20.5
1 12	8 46.68	+14 31.6	1.534	2.483	7.6	20.2
1 22	8 38.84	+15 56.1	1.496	2.475	2.9	19.9
2 1	8 30.14	+17 27.0	1.485	2.467	2.4	19.9
2 11	8 21.82	+18 56.1	1.503	2.460	7.2	20.2
2 21	8 15.06	+20 16.5	1.547	2.453	11.7	20.4
3 2	8 10.76	+21 23.7	1.614	2.447	15.5	20.6

39551 1992 EW_{5} 1 27.0 132°.14 0°.9/26.6 18

12 23	9 6.01	+17 39.2	1.577	2.391	16.4	18.5
1 2	9 0.05	+18 27.0	1.510	2.404	12.3	18.2
1 12	8 51.21	+19 25.6	1.466	2.417	7.6	18.0
1 22	8 40.34	+20 28.8	1.449	2.430	2.6	17.7
2 1	8 28.74	+21 28.9	1.461	2.441	3.0	17.8
2 11	8 17.93	+22 19.7	1.502	2.452	7.9	18.1
2 21	8 9.19	+22 57.6	1.568	2.462	12.3	18.4
3 2	8 3.38	+23 21.7	1.657	2.472	16.0	18.6

151819 2003 FM_{94} 1 27.0 282°.86 4°.0/29.6 18

12 23	8 57.16	+ 5 19.2	1.918	2.698	15.1	20.0
1 2	8 53.14	+ 5 34.0	1.819	2.683	12.2	19.8
1 12	8 46.87	+ 6 8.0	1.741	2.669	8.7	19.5
1 22	8 38.89	+ 7 0.4	1.690	2.655	5.3	19.3
2 1	8 30.09	+ 8 8.0	1.666	2.640	4.1	19.2
2 11	8 21.57	+ 9 25.2	1.672	2.626	6.9	19.3
2 21	8 14.36	+10 45.5	1.704	2.611	10.7	19.5
3 2	8 9.33	+12 2.9	1.761	2.597	14.3	19.7

456391 2006 UQ_{149} 1 27.0 73°.53 1°.8/26.1 18

12 23	9 3.74	+21 14.1	1.641	2.463	15.4	21.8
1 2	8 58.12	+21 51.2	1.585	2.484	11.5	21.6
1 12	8 49.85	+22 34.0	1.552	2.505	7.1	21.4
1 22	8 39.83	+23 16.3	1.546	2.526	2.7	21.1
2 1	8 29.30	+23 52.2	1.568	2.546	3.4	21.2
2 11	8 19.66	+24 17.4	1.619	2.567	7.7	21.5
2 21	8 12.02	+24 30.1	1.695	2.587	11.7	21.8
3 2	8 7.10	+24 31.0	1.794	2.607	15.0	22.1

18036 1999 ND_{26} 1 27.0 252°.88 0°.8/26.3 18

12 23	8 54.39	+20 34.8	3.447	4.249	8.5	19.4
1 2	8 50.09	+21 1.3	3.349	4.239	6.4	19.3
1 12	8 44.49	+21 31.2	3.279	4.228	3.9	19.1
1 22	8 37.97	+22 1.9	3.238	4.218	1.4	18.9
2 1	8 31.07	+22 31.1	3.228	4.207	1.8	18.9
2 11	8 24.38	+22 56.2	3.250	4.196	4.4	19.1
2 21	8 18.47	+23 15.8	3.301	4.185	6.8	19.2
3 2	8 13.80	+23 29.0	3.377	4.174	9.0	19.4

26938 Jackli 1 27.0 172°.11 1°.8/26.2 18

12 23	9 6.18	+21 31.1	1.680	2.497	15.4	19.6
1 2	9 0.17	+21 59.5	1.604	2.500	11.6	19.3
1 12	8 51.30	+22 33.7	1.551	2.502	7.2	19.1
1 22	8 40.39	+23 7.8	1.525	2.504	2.8	18.8
2 1	8 28.69	+23 36.1	1.527	2.505	3.4	18.8
2 11	8 17.69	+23 53.9	1.558	2.506	8.0	19.1
2 21	8 8.68	+23 59.7	1.615	2.506	12.3	19.4
3 2	8 2.54	+23 54.1	1.695	2.506	15.9	19.6

66271 1999 JM_6 1 27.0 242°.81 7°.0/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 1.72	+ 0 56.0	1.872	2.625	16.4	19.6
1 2	8 56.62	+ 0 12.1	1.773	2.612	13.7	19.4
1 12	8 49.07	− 0 13.6	1.695	2.598	10.6	19.2
1 22	8 39.66	− 0 18.8	1.642	2.584	7.9	19.0
2 1	8 29.34	− 0 2.9	1.616	2.570	7.0	18.9
2 11	8 19.32	+ 0 31.5	1.618	2.554	8.8	19.0
2 21	8 10.72	+ 1 19.4	1.646	2.539	12.0	19.1
3 2	8 4.45	+ 2 14.9	1.698	2.523	15.3	19.3

398396 2011 SL_{186} 1 27.0 137°.05 5°.6/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.62	+30 47.4	1.665	2.488	15.2	21.3
1 2	9 1.43	+31 42.2	1.599	2.494	11.7	21.1
1 12	8 52.13	+32 34.5	1.557	2.499	8.1	20.9
1 22	8 40.67	+33 15.5	1.540	2.505	5.7	20.8
2 1	8 28.45	+33 38.0	1.552	2.510	6.7	20.9
2 11	8 17.13	+33 38.6	1.591	2.515	10.0	21.1
2 21	8 8.08	+33 18.5	1.655	2.519	13.5	21.3
3 2	8 2.17	+32 41.5	1.740	2.523	16.7	21.5

194170 2001 TG_{36} 1 27.0 13°.37 10°.4/23.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.98	+35 51.5	0.921	1.786	21.0	18.6
1 2	8 58.99	+36 59.3	0.879	1.792	16.7	18.4
1 12	8 51.35	+37 55.5	0.854	1.799	12.7	18.2
1 22	8 40.48	+38 25.8	0.850	1.808	10.4	18.1
2 1	8 28.74	+38 19.9	0.867	1.819	11.6	18.2
2 11	8 18.76	+37 36.2	0.905	1.832	15.0	18.4
2 21	8 12.37	+36 21.7	0.962	1.847	19.0	18.7
3 2	8 10.41	+34 46.4	1.035	1.864	22.6	19.0

496718 2016 GG_{13} 1 27.0 163°.25 0°.4/27.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.19	+15 23.9	2.658	3.452	11.0	22.1
1 2	8 53.19	+15 51.2	2.573	3.456	8.3	21.9
1 12	8 46.52	+16 26.1	2.515	3.460	5.2	21.7
1 22	8 38.69	+17 5.6	2.485	3.464	1.9	21.5
2 1	8 30.42	+17 46.5	2.486	3.467	1.7	21.5
2 11	8 22.49	+18 25.4	2.518	3.470	5.0	21.7
2 21	8 15.63	+18 59.7	2.579	3.473	8.1	21.9
3 2	8 10.42	+19 27.6	2.666	3.475	10.8	22.1

104828 2000 HC_{60} 1 27.0 221°.91 0°.8/26.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.62	+19 29.9	2.457	3.264	11.4	20.7
1 2	8 53.73	+19 58.1	2.368	3.259	8.6	20.5
1 12	8 46.97	+20 31.9	2.304	3.254	5.3	20.3
1 22	8 38.88	+21 7.7	2.269	3.249	1.8	20.1
2 1	8 30.24	+21 41.7	2.264	3.244	2.2	20.1
2 11	8 21.96	+22 10.6	2.290	3.238	5.7	20.3
2 21	8 14.85	+22 32.1	2.343	3.233	9.0	20.5
3 2	8 9.56	+22 45.2	2.422	3.227	11.9	20.7

502053 2015 AP_{164} 1 27.0 300°.01 0°.2/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.37	+17 3.5	2.105	2.915	12.9	21.6
1 2	8 53.79	+17 32.1	2.021	2.913	9.8	21.4
1 12	8 47.12	+18 9.1	1.962	2.912	6.1	21.2
1 22	8 38.95	+18 50.9	1.930	2.911	2.1	20.9
2 1	8 30.18	+19 33.2	1.928	2.909	2.1	20.9
2 11	8 21.83	+20 11.5	1.955	2.908	6.2	21.2
2 21	8 14.84	+20 42.8	2.009	2.906	9.9	21.4
3 2	8 9.92	+21 5.4	2.088	2.905	13.1	21.6

399599 2003 UO_{374} 1 27.0 67°.30 4°.1/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.15	+ 7 57.6	1.534	2.332	17.5	21.4
1 2	8 56.36	+ 7 43.2	1.464	2.341	13.8	21.2
1 12	8 48.90	+ 7 46.6	1.416	2.351	9.6	20.9
1 22	8 39.58	+ 8 6.9	1.392	2.360	5.5	20.7
2 1	8 29.59	+ 8 41.0	1.395	2.370	4.4	20.7
2 11	8 20.29	+ 9 23.8	1.425	2.380	7.8	20.9
2 21	8 12.87	+10 9.6	1.481	2.390	11.9	21.2
3 2	8 8.13	+10 53.3	1.559	2.399	15.6	21.4

502305 2015 BQ_{149} 1 27.0 213°.52 1°.5/25.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.96	+22 36.2	2.663	3.469	10.7	22.1
1 2	8 54.62	+23 1.0	2.572	3.463	8.0	21.9
1 12	8 47.46	+23 28.6	2.507	3.456	5.0	21.7
1 22	8 39.04	+23 55.5	2.471	3.450	2.0	21.5
2 1	8 30.10	+24 18.2	2.466	3.443	2.6	21.5
2 11	8 21.51	+24 33.9	2.492	3.435	5.7	21.7
2 21	8 14.06	+24 41.4	2.546	3.428	8.7	21.9
3 2	8 8.37	+24 40.3	2.626	3.420	11.4	22.1

150492 2000 QZ_{70} 1 27.0 117°.40 0°.4/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.30	+15 43.3	2.169	2.968	13.0	21.3
1 2	8 55.76	+16 5.3	2.098	2.984	9.8	21.1
1 12	8 48.20	+16 35.7	2.052	2.998	6.1	20.9
1 22	8 39.28	+17 11.0	2.033	3.013	2.2	20.7
2 1	8 29.91	+17 47.4	2.046	3.027	1.9	20.7
2 11	8 21.08	+18 21.0	2.088	3.041	5.8	21.0
2 21	8 13.67	+18 49.1	2.158	3.054	9.4	21.2
3 2	8 8.32	+19 10.1	2.253	3.067	12.4	21.4

353763 2012 DK_{55} 1 27.0 171°.62 10°.7/24.6 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 23.89	+40 59.2	1.222	2.037	20.1	20.5
1 2	9 15.16	+41 40.7	1.159	2.038	16.5	20.3
1 12	9 1.31	+42 5.2	1.117	2.039	13.0	20.0
1 22	8 43.88	+41 57.5	1.098	2.040	10.9	19.9
2 1	8 25.54	+41 8.0	1.103	2.041	11.6	20.0
2 11	8 9.28	+39 37.9	1.133	2.041	14.6	20.1
2 21	7 57.22	+37 38.0	1.186	2.041	18.4	20.4
3 2	7 50.27	+35 22.0	1.259	2.040	21.9	20.6

514109 2015 CD 1 27.0 108°.05 18°.8/22.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 35.30	+54 24.1	1.077	1.868	23.8	20.4
1 2	9 26.07	+56 3.4	1.035	1.872	21.4	20.3
1 12	9 9.08	+57 10.7	1.010	1.875	19.6	20.2
1 22	8 46.59	+57 23.0	1.002	1.878	18.8	20.1
2 1	8 23.14	+56 26.0	1.013	1.881	19.5	20.2
2 11	8 3.64	+54 24.3	1.044	1.884	21.3	20.3
2 21	7 50.84	+51 36.0	1.093	1.887	23.7	20.5
3 2	7 45.15	+48 22.4	1.157	1.890	26.1	20.7

167015 2003 QF_{21} 1 27.0 193°.99 1°.6/26.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.52	+21 33.0	2.278	3.081	12.3	22.0
1 2	8 58.34	+22 10.0	2.189	3.078	9.3	21.8
1 12	8 49.93	+22 51.7	2.126	3.075	5.8	21.5
1 22	8 39.93	+23 33.5	2.092	3.071	2.3	21.3
2 1	8 29.25	+24 10.5	2.089	3.065	2.9	21.3
2 11	8 18.99	+24 38.8	2.116	3.059	6.5	21.6
2 21	8 10.14	+24 56.6	2.172	3.052	10.0	21.8
3 2	8 3.45	+25 3.7	2.252	3.044	13.1	21.9

240112 2002 CB_{310} 1 27.0 56°.98 2°.5/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.04	+ 9 51.4	1.398	2.210	18.2	20.1
1 2	8 55.79	+10 18.3	1.332	2.220	14.1	19.9
1 12	8 48.68	+11 5.5	1.287	2.231	9.3	19.6
1 22	8 39.55	+12 9.0	1.266	2.242	4.4	19.4
2 1	8 29.67	+13 22.4	1.273	2.253	3.2	19.3
2 11	8 20.54	+14 37.4	1.306	2.265	7.8	19.6
2 21	8 13.43	+15 47.0	1.364	2.276	12.4	19.9
3 2	8 9.19	+16 46.1	1.445	2.288	16.5	20.2

130890 2000 VE_{24} 1 27.0 117°.56 4°.3/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.95	+27 11.9	1.687	2.511	15.0	19.9
1 2	9 0.02	+28 9.2	1.624	2.522	11.4	19.7
1 12	8 51.21	+29 7.4	1.584	2.532	7.5	19.5
1 22	8 40.38	+29 58.5	1.571	2.543	4.5	19.3
2 1	8 28.87	+30 35.4	1.587	2.553	5.5	19.4
2 11	8 18.20	+30 53.8	1.630	2.562	9.1	19.6
2 21	8 9.63	+30 53.6	1.699	2.572	12.8	19.9
3 2	8 3.99	+30 37.3	1.789	2.581	16.0	20.1

413643 2005 UX_{491} 1 27.0 102°.07 6°.6/22.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.38	+34 30.5	2.033	2.849	13.1	21.3
1 2	8 59.37	+36 5.8	1.982	2.867	10.3	21.1
1 12	8 50.71	+37 35.9	1.957	2.886	7.8	21.0
1 22	8 40.20	+38 51.9	1.959	2.904	6.6	21.0
2 1	8 29.06	+39 46.7	1.989	2.921	7.6	21.1
2 11	8 18.65	+40 17.0	2.047	2.938	9.9	21.2
2 21	8 10.15	+40 23.5	2.130	2.955	12.5	21.4
3 2	8 4.35	+40 9.9	2.234	2.972	14.8	21.6

423024 2003 TN_{13} 1 27.0 91°.17 20°.2/17.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 27.77	+55 39.2	1.085	1.880	23.4	20.3
1 2	9 21.08	+58 22.1	1.061	1.890	21.5	20.2
1 12	9 6.54	+60 31.1	1.053	1.900	20.3	20.1
1 22	8 45.96	+61 44.0	1.063	1.910	20.3	20.1
2 1	8 23.67	+61 47.1	1.090	1.920	21.2	20.2
2 11	8 4.89	+60 43.5	1.134	1.929	22.8	20.4
2 21	7 52.82	+58 49.1	1.192	1.939	24.6	20.6
3 2	7 48.12	+56 22.2	1.263	1.948	26.4	20.7

236669 2006 PD_1 1 27.0 120°.07 3°.5/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.79	+30 17.4	2.771	3.578	10.2	20.9
1 2	8 55.87	+30 56.3	2.706	3.593	7.8	20.8
1 12	8 48.15	+31 32.7	2.667	3.608	5.3	20.7
1 22	8 39.27	+32 2.2	2.658	3.622	3.6	20.6
2 1	8 30.02	+32 21.3	2.679	3.637	4.3	20.6
2 11	8 21.29	+32 28.0	2.731	3.650	6.5	20.8
2 21	8 13.85	+32 22.1	2.810	3.664	8.9	21.0
3 2	8 8.24	+32 5.1	2.913	3.677	11.1	21.1

155391 1994 PG_{30} 1 27.0 215°.21 3°.0/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.13	+ 8 30.1	1.842	2.627	15.5	20.7
1 2	8 56.97	+ 8 44.0	1.748	2.620	12.2	20.4
1 12	8 49.32	+ 9 14.7	1.677	2.612	8.4	20.2
1 22	8 39.80	+10 0.5	1.633	2.604	4.4	19.9
2 1	8 29.42	+10 57.6	1.617	2.595	3.4	19.8
2 11	8 19.40	+12 0.3	1.630	2.585	7.0	20.0
2 21	8 10.90	+13 2.9	1.671	2.574	11.1	20.3
3 2	8 4.79	+14 0.6	1.736	2.563	14.9	20.5

116925 2004 GR_{26} 1 27.0 220°.64 2°.4/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 58.27	+24 57.4	2.793	3.603	10.1	20.5
1 2	8 53.37	+25 44.0	2.704	3.596	7.6	20.3
1 12	8 46.72	+26 32.8	2.641	3.590	4.9	20.1
1 22	8 38.83	+27 19.6	2.608	3.582	2.6	19.9
2 1	8 30.41	+28 0.3	2.606	3.575	3.3	20.0
2 11	8 22.29	+28 31.7	2.634	3.567	6.0	20.1
2 21	8 15.23	+28 52.1	2.690	3.559	8.7	20.3
3 2	8 9.85	+29 1.5	2.770	3.551	11.2	20.5

145329 2005 LH_{38} 1 27.1 52°.24 4°.1/24.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.83	+22 36.8	1.405	2.241	16.8	19.2
1 2	8 57.22	+24 21.6	1.358	2.265	12.5	19.0
1 12	8 49.58	+26 13.5	1.335	2.289	7.9	18.8
1 22	8 39.86	+28 1.3	1.338	2.313	4.3	18.6
2 1	8 29.48	+29 34.0	1.368	2.337	5.7	18.8
2 11	8 20.05	+30 44.2	1.425	2.362	9.7	19.1
2 21	8 12.88	+31 29.7	1.507	2.387	13.7	19.4
3 2	8 8.78	+31 52.2	1.609	2.412	17.0	19.6

88939 2001 TX_{33} 1 27.1 163°.86 4°.7/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.10	+ 6 1.2	1.982	2.755	15.0	18.8
1 2	8 55.86	+ 5 26.2	1.898	2.756	12.0	18.6
1 12	8 48.42	+ 5 5.3	1.836	2.758	8.7	18.4
1 22	8 39.44	+ 4 59.1	1.800	2.759	5.7	18.2
2 1	8 29.84	+ 5 6.7	1.793	2.760	4.9	18.2
2 11	8 20.70	+ 5 25.5	1.814	2.761	7.2	18.3
2 21	8 12.99	+ 5 51.6	1.863	2.761	10.4	18.5
3 2	8 7.45	+ 6 21.1	1.935	2.762	13.6	18.7

109626 2001 QL_{296} 1 27.1 72°.77 6°.8/23.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.50	+34 59.5	1.728	2.547	14.9	19.6
1 2	9 1.86	+35 57.8	1.681	2.569	11.7	19.5
1 12	8 52.25	+36 48.5	1.658	2.591	8.6	19.4
1 22	8 40.71	+37 23.0	1.660	2.612	6.9	19.3
2 1	8 28.71	+37 35.0	1.690	2.634	7.7	19.4
2 11	8 17.84	+37 23.0	1.747	2.655	10.3	19.6
2 21	8 9.34	+36 49.8	1.828	2.676	13.2	19.8
3 2	8 3.92	+36 0.3	1.931	2.697	15.8	20.0

264708 2002 AQ_{196} 1 27.1 192°.41 0°.2/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.50	+16 45.5	2.010	2.818	13.6	21.3
1 2	8 55.48	+17 3.1	1.927	2.817	10.3	21.1
1 12	8 48.23	+17 29.1	1.868	2.817	6.4	20.9
1 22	8 39.38	+18 0.1	1.836	2.816	2.2	20.6
2 1	8 29.90	+18 32.0	1.833	2.815	2.1	20.6
2 11	8 20.90	+19 0.8	1.860	2.814	6.4	20.9
2 21	8 13.36	+19 23.7	1.914	2.813	10.2	21.1
3 2	8 8.04	+19 39.1	1.993	2.811	13.5	21.3

386108 2007 RV_{123} 1 27.1 38°.96 8°.2/ 2.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 55.88	− 5 31.1	1.933	2.662	16.8	20.2
1 2	8 51.90	− 6 2.3	1.865	2.676	14.3	20.0
1 12	8 45.91	− 6 9.3	1.816	2.692	11.6	19.9
1 22	8 38.56	− 5 50.7	1.791	2.707	9.3	19.7
2 1	8 30.73	− 5 7.1	1.791	2.724	8.2	19.7
2 11	8 23.41	− 4 2.9	1.817	2.740	9.0	19.8
2 21	8 17.47	− 2 44.6	1.869	2.757	11.0	19.9
3 2	8 13.55	− 1 19.6	1.945	2.775	13.4	20.1

502869 2015 DK_{204} 1 27.1 284°.18 2°.6/25.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.25	+27 5.6	2.352	3.162	11.7	21.0
1 2	8 57.36	+27 12.3	2.259	3.151	8.9	20.8
1 12	8 49.31	+27 17.7	2.191	3.139	5.8	20.5
1 22	8 39.74	+27 17.9	2.152	3.127	3.0	20.3
2 1	8 29.57	+27 9.6	2.143	3.115	3.6	20.4
2 11	8 19.89	+26 50.9	2.164	3.103	6.7	20.5
2 21	8 11.62	+26 21.9	2.213	3.091	10.0	20.7
3 2	8 5.51	+25 44.1	2.287	3.080	12.9	20.9

257434 2010 ND_{6} 1 27.1 261°.82 0°.8/27.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.46	+15 30.4	1.809	2.614	14.9	21.4
1 2	8 58.22	+15 37.8	1.704	2.593	11.5	21.1
1 12	8 50.25	+15 55.5	1.623	2.571	7.4	20.8
1 22	8 40.18	+16 20.7	1.569	2.548	2.8	20.5
2 1	8 29.04	+16 49.3	1.544	2.525	2.4	20.4
2 11	8 18.18	+17 16.8	1.547	2.502	7.3	20.7
2 21	8 8.88	+17 39.7	1.578	2.478	11.9	20.9
3 2	8 2.16	+17 55.8	1.631	2.453	15.9	21.1

232337 2002 TL_{296} 1 27.1 154°.20 0°.9/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.83	+13 48.7	2.377	3.172	12.1	20.5
1 2	8 53.13	+14 11.9	2.293	3.175	9.2	20.3
1 12	8 46.60	+14 44.6	2.233	3.178	5.9	20.1
1 22	8 38.80	+15 24.0	2.202	3.180	2.3	19.9
2 1	8 30.49	+16 6.7	2.201	3.183	1.9	19.9
2 11	8 22.56	+16 48.7	2.231	3.185	5.4	20.1
2 21	8 15.81	+17 26.9	2.288	3.187	8.8	20.3
3 2	8 10.85	+17 59.0	2.371	3.189	11.7	20.5

187175 2005 SN_{35} 1 27.1 204°.67 1°.4/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 0.97	+20 9.3	1.980	2.794	13.5	21.0
1 2	8 55.94	+20 47.0	1.897	2.792	10.1	20.8
1 12	8 48.58	+21 31.5	1.839	2.790	6.3	20.5
1 22	8 39.52	+22 18.1	1.808	2.788	2.3	20.3
2 1	8 29.77	+23 1.3	1.807	2.786	2.9	20.3
2 11	8 20.50	+23 36.4	1.835	2.783	6.9	20.6
2 21	8 12.75	+24 1.0	1.890	2.780	10.8	20.8
3 2	8 7.32	+24 14.2	1.968	2.777	14.1	21.0

134436 1998 RH_{61} 1 27.1 49°.91 1°.0/27.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.77	+14 52.8	1.338	2.161	18.3	19.5
1 2	8 58.38	+15 2.9	1.294	2.190	13.8	19.4
1 12	8 50.09	+15 26.0	1.270	2.220	8.7	19.1
1 22	8 39.98	+15 57.4	1.271	2.251	3.2	18.9
2 1	8 29.46	+16 31.6	1.299	2.281	2.7	18.9
2 11	8 20.08	+17 3.1	1.355	2.312	7.7	19.3
2 21	8 12.99	+17 28.4	1.435	2.343	12.2	19.7
3 2	8 8.88	+17 45.5	1.536	2.374	15.9	20.0

111452 2001 XJ_{246} 1 27.1 118°.24 0°.5/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.82	+13 49.6	2.006	2.808	13.8	19.6
1 2	8 54.91	+14 34.1	1.931	2.818	10.5	19.4
1 12	8 47.83	+15 30.7	1.881	2.828	6.6	19.2
1 22	8 39.24	+16 35.2	1.858	2.837	2.4	19.0
2 1	8 30.08	+17 42.0	1.865	2.847	2.1	19.0
2 11	8 21.41	+18 45.5	1.902	2.856	6.2	19.3
2 21	8 14.18	+19 41.5	1.966	2.864	10.0	19.5
3 2	8 9.12	+20 27.3	2.055	2.873	13.2	19.7

15589 2000 GB_{80} 1 27.1 36°.89 4°.6/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.63	+ 4 48.3	2.085	2.856	14.4	17.5
1 2	8 53.16	+ 4 27.3	2.003	2.859	11.6	17.3
1 12	8 46.70	+ 4 21.7	1.943	2.863	8.5	17.1
1 22	8 38.85	+ 4 31.5	1.909	2.866	5.6	16.9
2 1	8 30.46	+ 4 55.2	1.904	2.870	4.7	16.9
2 11	8 22.49	+ 5 29.6	1.926	2.874	6.7	17.0
2 21	8 15.83	+ 6 10.4	1.976	2.878	9.8	17.2
3 2	8 11.12	+ 6 53.3	2.050	2.882	12.8	17.4

495586 2015 AR_{12} 1 27.1 259°.41 5°.2/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.64	+33 23.7	2.177	2.991	12.4	20.5
1 2	8 58.69	+34 2.1	2.098	2.985	9.7	20.3
1 12	8 50.25	+34 35.9	2.043	2.979	7.0	20.1
1 22	8 40.08	+34 59.0	2.016	2.973	5.3	20.0
2 1	8 29.26	+35 6.0	2.017	2.967	6.1	20.1
2 11	8 19.06	+34 54.8	2.047	2.961	8.6	20.2
2 21	8 10.56	+34 26.1	2.103	2.955	11.5	20.4
3 2	8 4.55	+33 42.9	2.181	2.949	14.2	20.5

92400 2000 JF_{25} 1 27.1 233°.88 2°.7/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.57	+11 7.1	1.950	2.735	14.7	20.7
1 2	8 58.76	+10 55.8	1.847	2.721	11.6	20.4
1 12	8 50.44	+10 56.0	1.768	2.705	7.8	20.2
1 22	8 40.22	+11 6.8	1.716	2.689	4.0	19.9
2 1	8 29.08	+11 25.7	1.693	2.671	3.2	19.8
2 11	8 18.25	+11 49.4	1.700	2.653	6.9	20.0
2 21	8 8.89	+12 14.3	1.735	2.634	11.0	20.2
3 2	8 1.90	+12 37.4	1.794	2.614	14.8	20.4

243529 Petereisenhardt 1 27.1 173°.37 1°.9/25.3 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.58	+20 56.6	2.566	3.376	10.9	20.4
1 2	8 52.98	+22 12.9	2.483	3.376	8.1	20.2
1 12	8 46.55	+23 35.6	2.427	3.377	5.1	20.0
1 22	8 38.81	+24 59.5	2.400	3.378	2.3	19.8
2 1	8 30.49	+26 18.8	2.405	3.378	3.1	19.9
2 11	8 22.46	+27 28.7	2.441	3.378	6.1	20.1
2 21	8 15.52	+28 26.1	2.505	3.379	9.1	20.2
3 2	8 10.34	+29 9.7	2.594	3.379	11.7	20.4

391773 2008 HW_{33} 1 27.1 172°.93 1°.5/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.07	+12 2.4	1.761	2.557	15.6	22.1
1 2	8 58.44	+12 29.5	1.679	2.561	12.1	21.9
1 12	8 50.22	+13 11.3	1.621	2.564	7.8	21.6
1 22	8 40.11	+14 4.2	1.589	2.566	3.3	21.4
2 1	8 29.23	+15 3.1	1.586	2.567	2.5	21.3
2 11	8 18.87	+16 1.8	1.613	2.568	7.0	21.6
2 21	8 10.22	+16 55.3	1.667	2.568	11.3	21.9
3 2	8 4.14	+17 40.2	1.745	2.567	15.0	22.1

490211 2008 UQ_{368} 1 27.1 65°.93 8°.2/22.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.28	+32 47.8	1.319	2.155	17.7	20.9
1 2	9 2.49	+34 38.5	1.282	2.181	13.7	20.7
1 12	8 53.02	+36 23.1	1.267	2.206	10.1	20.6
1 22	8 41.06	+37 48.4	1.277	2.231	8.2	20.5
2 1	8 28.42	+38 43.9	1.313	2.257	9.5	20.7
2 11	8 17.15	+39 5.8	1.374	2.282	12.5	20.9
2 21	8 8.77	+38 57.6	1.457	2.307	15.8	21.2
3 2	8 4.12	+38 25.6	1.559	2.332	18.7	21.5

492484 2014 NH_{51} 1 27.1 121°.55 1°.0/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.99	+13 41.1	1.934	2.731	14.4	21.5
1 2	8 57.25	+14 5.9	1.864	2.748	11.0	21.3
1 12	8 49.26	+14 42.1	1.819	2.763	7.0	21.1
1 22	8 39.72	+15 25.9	1.800	2.779	2.7	20.9
2 1	8 29.66	+16 12.7	1.812	2.794	2.2	20.9
2 11	8 20.22	+16 57.6	1.854	2.808	6.3	21.2
2 21	8 12.38	+17 37.1	1.923	2.821	10.2	21.4
3 2	8 6.84	+18 8.8	2.016	2.834	13.4	21.7

494916 2008 VV_{73} 1 27.1 343°.27 1°.7/27.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.13	+13 53.7	1.151	1.992	19.4	21.3
1 2	8 54.39	+13 57.8	1.076	1.982	15.0	21.0
1 12	8 48.27	+14 19.3	1.020	1.973	9.8	20.7
1 22	8 39.58	+14 55.2	0.985	1.965	4.0	20.3
2 1	8 29.72	+15 39.6	0.976	1.958	3.2	20.2
2 11	8 20.54	+16 25.2	0.990	1.952	9.0	20.5
2 21	8 13.64	+17 5.5	1.027	1.948	14.6	20.8
3 2	8 10.16	+17 36.1	1.083	1.944	19.4	21.1

35534 1998 FW_{73} 1 27.1 293°.53 0°.7/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.92	+18 26.9	2.275	3.071	12.6	18.0
1 2	8 58.66	+17 51.4	2.167	3.051	9.6	17.7
1 12	8 50.17	+17 18.2	2.085	3.031	6.1	17.5
1 22	8 40.08	+16 45.8	2.032	3.011	2.3	17.2
2 1	8 29.28	+16 13.0	2.010	2.991	2.1	17.1
2 11	8 18.85	+15 39.2	2.019	2.972	6.0	17.4
2 21	8 9.78	+15 4.1	2.057	2.952	9.8	17.6
3 2	8 2.83	+14 28.0	2.121	2.932	13.1	17.7

272483 2005 UG_{111} 1 27.1 2°.61 3°.3/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.38	+25 7.2	1.720	2.548	14.6	20.7
1 2	8 56.62	+25 48.7	1.646	2.548	11.0	20.5
1 12	8 49.15	+26 33.3	1.596	2.548	7.0	20.3
1 22	8 39.76	+27 14.3	1.572	2.548	3.7	20.1
2 1	8 29.63	+27 45.5	1.576	2.548	4.6	20.1
2 11	8 20.15	+28 2.6	1.608	2.549	8.4	20.3
2 21	8 12.53	+28 4.3	1.665	2.550	12.3	20.6
3 2	8 7.62	+27 51.9	1.744	2.552	15.7	20.8

105210 2000 OK_{52} 1 27.1 142°.18 2°.0/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.45	+10 10.8	3.258	4.024	9.8	19.9
1 2	8 53.02	+10 3.1	3.175	4.037	7.6	19.8
1 12	8 46.27	+10 2.8	3.119	4.049	5.1	19.6
1 22	8 38.66	+10 9.0	3.092	4.061	2.8	19.5
2 1	8 30.75	+10 20.2	3.096	4.072	2.2	19.5
2 11	8 23.16	+10 34.7	3.133	4.082	4.3	19.6
2 21	8 16.45	+10 50.5	3.199	4.093	6.7	19.8
3 2	8 11.07	+11 5.9	3.292	4.102	8.9	20.0

346161 2007 VT_{297} 1 27.1 84°.70 2°.2/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 56.80	+ 8 2.2	2.328	3.107	12.8	20.7
1 2	8 52.33	+ 8 41.4	2.252	3.121	10.0	20.5
1 12	8 46.09	+ 9 35.0	2.201	3.135	6.7	20.3
1 22	8 38.65	+10 40.1	2.177	3.149	3.4	20.1
2 1	8 30.75	+11 52.6	2.184	3.162	2.5	20.1
2 11	8 23.27	+13 7.3	2.221	3.176	5.4	20.3
2 21	8 16.95	+14 19.3	2.287	3.189	8.6	20.5
3 2	8 12.40	+15 25.0	2.379	3.202	11.5	20.7

69044 2002 XP_{57} 1 27.1 68°.02 0°.3/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.71	+16 38.6	1.632	2.448	15.8	19.7
1 2	8 57.30	+17 15.2	1.579	2.474	11.8	19.5
1 12	8 49.37	+18 2.0	1.548	2.499	7.3	19.3
1 22	8 39.77	+18 53.6	1.544	2.525	2.4	19.0
2 1	8 29.72	+19 43.9	1.569	2.550	2.5	19.1
2 11	8 20.52	+20 27.4	1.622	2.576	7.1	19.4
2 21	8 13.23	+21 1.1	1.702	2.601	11.2	19.7
3 2	8 8.56	+21 23.7	1.804	2.626	14.6	20.0

128192 2003 SQ_{11} 1 27.1 93°.55 0°.9/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.52	+14 26.6	2.106	2.907	13.3	20.0
1 2	8 54.55	+14 42.2	2.032	2.918	10.1	19.8
1 12	8 47.54	+15 7.4	1.982	2.928	6.4	19.6
1 22	8 39.15	+15 39.2	1.960	2.938	2.5	19.4
2 1	8 30.27	+16 13.8	1.967	2.949	2.0	19.4
2 11	8 21.91	+16 47.5	2.004	2.959	5.9	19.6
2 21	8 14.93	+17 17.1	2.069	2.969	9.5	19.9
3 2	8 10.00	+17 40.6	2.158	2.979	12.6	20.1

41933 2000 WH_{179} 1 27.1 333°.70 2°.6/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.85	+10 1.8	1.406	2.222	17.9	18.6
1 2	8 54.38	+10 23.3	1.325	2.215	14.0	18.3
1 12	8 48.00	+11 5.4	1.264	2.209	9.3	18.1
1 22	8 39.45	+12 5.3	1.227	2.203	4.5	17.8
2 1	8 29.91	+13 17.2	1.217	2.198	3.3	17.7
2 11	8 20.89	+14 33.0	1.233	2.193	8.0	17.9
2 21	8 13.75	+15 45.2	1.274	2.189	12.9	18.2
3 2	8 9.50	+16 47.8	1.337	2.185	17.2	18.4

422082 2014 QW_{388} 1 27.1 64°.91 4°.0/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.45	+28 38.1	1.640	2.461	15.5	20.7
1 2	9 1.73	+28 55.1	1.584	2.481	11.7	20.5
1 12	8 52.14	+29 9.2	1.552	2.500	7.7	20.3
1 22	8 40.71	+29 14.3	1.547	2.520	4.4	20.1
2 1	8 28.86	+29 5.6	1.570	2.539	5.1	20.2
2 11	8 18.13	+28 41.7	1.621	2.559	8.6	20.5
2 21	8 9.69	+28 4.3	1.697	2.578	12.3	20.7
3 2	8 4.25	+27 16.8	1.796	2.598	15.5	21.0

31374 Hruskova 1 27.1 25°.22 1°.4/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.33	+19 27.4	1.155	2.000	19.1	18.5
1 2	8 57.40	+19 55.4	1.096	2.006	14.4	18.2
1 12	8 50.00	+20 34.3	1.056	2.013	8.9	17.9
1 22	8 40.12	+21 17.2	1.040	2.021	3.1	17.6
2 1	8 29.37	+21 56.1	1.049	2.030	3.7	17.7
2 11	8 19.64	+22 24.6	1.083	2.040	9.4	18.0
2 21	8 12.47	+22 39.4	1.140	2.050	14.5	18.4
3 2	8 8.79	+22 40.5	1.216	2.061	18.8	18.7

503511 2016 FL_{4} 1 27.1 286°.54 4°.1/24.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.01	+28 12.9	1.904	2.726	13.6	21.4
1 2	8 57.81	+28 51.6	1.816	2.713	10.4	21.1
1 12	8 49.93	+29 30.5	1.752	2.699	7.0	20.9
1 22	8 40.07	+30 3.2	1.714	2.685	4.3	20.7
2 1	8 29.35	+30 23.7	1.706	2.672	5.2	20.7
2 11	8 19.14	+30 28.1	1.725	2.658	8.6	20.9
2 21	8 10.66	+30 16.0	1.770	2.644	12.3	21.1
3 2	8 4.83	+29 49.1	1.837	2.631	15.5	21.3

395317 2011 OL_{24} 1 27.1 118°.98 4°.4/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.14	+ 4 43.6	1.973	2.735	15.4	22.5
1 2	8 57.97	+ 4 36.5	1.905	2.757	12.3	22.3
1 12	8 49.64	+ 4 46.2	1.859	2.779	8.8	22.2
1 22	8 39.87	+ 5 12.1	1.841	2.800	5.6	22.0
2 1	8 29.63	+ 5 51.2	1.851	2.820	4.5	22.0
2 11	8 20.03	+ 6 39.3	1.891	2.839	6.8	22.2
2 21	8 11.99	+ 7 31.2	1.960	2.857	10.1	22.4
3 2	8 6.18	+ 8 22.5	2.053	2.874	13.1	22.6

243958 2001 QX_{208} 1 27.1 177°.78 1°.2/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.10	+20 4.9	1.837	2.646	14.6	22.0
1 2	8 59.95	+20 32.8	1.756	2.648	11.0	21.7
1 12	8 51.16	+21 7.3	1.700	2.650	6.8	21.5
1 22	8 40.47	+21 43.4	1.671	2.651	2.4	21.2
2 1	8 29.03	+22 15.5	1.672	2.651	2.9	21.2
2 11	8 18.20	+22 39.4	1.702	2.651	7.3	21.5
2 21	8 9.15	+22 53.0	1.759	2.649	11.4	21.7
3 2	8 2.73	+22 56.0	1.840	2.647	15.0	22.0

3677 Magnusson 1 27.1 144°.00 2°.5/28.4 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.26	+10 21.0	1.838	2.626	15.4	17.9
1 2	8 58.37	+10 29.9	1.763	2.638	12.0	17.7
1 12	8 50.06	+10 53.0	1.711	2.649	8.0	17.4
1 22	8 40.07	+11 27.9	1.685	2.659	3.9	17.2
2 1	8 29.46	+12 10.6	1.689	2.668	3.0	17.2
2 11	8 19.45	+12 56.3	1.723	2.677	6.7	17.4
2 21	8 11.10	+13 40.4	1.784	2.685	10.7	17.7
3 2	8 5.19	+14 19.5	1.869	2.692	14.1	17.9

317170 2001 WS_{69} 1 27.1 114°.35 0°.7/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.62	+14 56.3	2.015	2.816	13.8	21.6
1 2	8 56.19	+15 12.9	1.943	2.829	10.5	21.4
1 12	8 48.60	+15 39.0	1.895	2.842	6.6	21.2
1 22	8 39.55	+16 11.3	1.875	2.854	2.5	20.9
2 1	8 29.98	+16 45.9	1.884	2.866	2.1	20.9
2 11	8 20.98	+17 18.7	1.923	2.877	6.1	21.2
2 21	8 13.49	+17 46.7	1.990	2.889	9.9	21.4
3 2	8 8.20	+18 8.1	2.081	2.900	13.0	21.7

203138 2000 TH_{58} 1 27.1 97°.90 0°.2/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.03	+15 35.1	1.606	2.420	16.1	20.5
1 2	8 57.76	+16 7.9	1.541	2.434	12.2	20.3
1 12	8 49.80	+16 52.7	1.498	2.448	7.6	20.1
1 22	8 40.00	+17 44.5	1.481	2.461	2.7	19.8
2 1	8 29.55	+18 37.3	1.493	2.475	2.5	19.8
2 11	8 19.84	+19 25.0	1.533	2.488	7.3	20.1
2 21	8 12.05	+20 3.6	1.599	2.501	11.7	20.4
3 2	8 6.97	+20 31.4	1.688	2.513	15.3	20.7

199021 2005 WB_{98} 1 27.1 186°.85 3°.2/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.87	+23 36.8	1.722	2.543	14.9	20.6
1 2	8 59.34	+24 39.3	1.645	2.543	11.2	20.4
1 12	8 50.94	+25 47.7	1.592	2.542	7.2	20.2
1 22	8 40.45	+26 54.3	1.565	2.541	3.6	19.9
2 1	8 29.06	+27 51.4	1.568	2.540	4.6	20.0
2 11	8 18.27	+28 32.9	1.599	2.538	8.7	20.2
2 21	8 9.37	+28 56.6	1.656	2.535	12.7	20.5
3 2	8 3.31	+29 3.4	1.735	2.532	16.2	20.7

495544 2014 WW_{140} 1 27.1 121°.67 2°.4/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.64	+23 30.3	2.116	2.929	12.8	22.1
1 2	8 56.99	+24 18.6	2.048	2.942	9.6	21.9
1 12	8 49.11	+25 10.2	2.006	2.955	6.0	21.7
1 22	8 39.73	+25 59.6	1.991	2.968	2.8	21.6
2 1	8 29.82	+26 41.4	2.007	2.980	3.6	21.6
2 11	8 20.49	+27 11.7	2.052	2.992	7.0	21.9
2 21	8 12.72	+27 29.1	2.125	3.003	10.3	22.1
3 2	8 7.20	+27 33.9	2.221	3.014	13.2	22.3

77676 2001 MD_{22} 1 27.1 104°.56 2°.3/25.7 18

12 23	9 1.91	+25 7.5	2.286	3.098	12.0	20.0
1 2	8 56.29	+25 27.8	2.211	3.105	9.0	19.8
1 12	8 48.61	+25 49.0	2.162	3.111	5.7	19.6
1 22	8 39.54	+26 6.8	2.141	3.118	2.7	19.4
2 1	8 30.00	+26 17.4	2.150	3.124	3.3	19.5
2 11	8 21.03	+26 18.6	2.189	3.130	6.5	19.7
2 21	8 13.50	+26 9.7	2.256	3.136	9.7	19.9
3 2	8 8.06	+25 51.6	2.346	3.142	12.5	20.1

456611 2007 GV_{11} 1 27.1 211°.60 4°.9/31.4 18

12 23	8 57.75	− 1 44.3	2.922	3.639	11.9	22.3
1 2	8 52.83	− 1 40.4	2.816	3.630	9.9	22.1
1 12	8 46.36	− 1 20.5	2.733	3.620	7.7	21.9
1 22	8 38.79	− 0 44.5	2.677	3.610	5.7	21.8
2 1	8 30.71	+ 0 6.3	2.650	3.599	4.9	21.7
2 11	8 22.83	+ 1 9.0	2.655	3.587	6.0	21.8
2 21	8 15.81	+ 2 19.4	2.688	3.575	8.1	21.9
3 2	8 10.22	+ 3 33.1	2.749	3.562	10.4	22.0

27783 1992 GV_{3} 1 27.1 306°.56 6°.3/23.6 18

12 23	9 4.48	+32 12.6	1.693	2.520	14.8	18.0
1 2	8 59.28	+33 18.8	1.621	2.517	11.5	17.8
1 12	8 51.00	+34 22.4	1.573	2.513	8.3	17.6
1 22	8 40.48	+35 14.4	1.551	2.510	6.4	17.4
2 1	8 29.07	+35 46.7	1.556	2.507	7.5	17.5
2 11	8 18.40	+35 55.2	1.587	2.504	10.5	17.7
2 21	8 9.85	+35 40.4	1.643	2.501	13.9	17.9
3 2	8 4.37	+35 6.2	1.719	2.498	17.0	18.1

18431 Stazzema 1 27.1 45°.22 0°.9/26.8 18

12 23	9 4.88	+20 21.7	1.366	2.196	17.5	17.5
1 2	8 59.56	+20 22.6	1.303	2.206	13.2	17.3
1 12	8 51.10	+20 29.9	1.262	2.216	8.2	17.0
1 22	8 40.47	+20 38.8	1.246	2.226	2.8	16.7
2 1	8 29.16	+20 44.3	1.256	2.237	3.1	16.8
2 11	8 18.85	+20 43.0	1.293	2.248	8.3	17.1
2 21	8 10.87	+20 33.6	1.355	2.260	13.1	17.4
3 2	8 6.09	+20 16.4	1.438	2.272	17.0	17.7

72474 2001 DD_{35} 1 27.1 24°.08 1°.2/27.6 18

12 23	9 0.58	+14 39.7	1.375	2.200	17.7	19.4
1 2	8 56.36	+14 46.5	1.306	2.204	13.5	19.2
1 12	8 49.16	+15 7.1	1.259	2.209	8.7	18.9
1 22	8 39.84	+15 37.7	1.235	2.215	3.4	18.6
2 1	8 29.73	+16 13.1	1.239	2.221	2.7	18.6
2 11	8 20.38	+16 47.6	1.268	2.227	7.9	18.9
2 21	8 13.13	+17 16.7	1.322	2.234	12.8	19.2
3 2	8 8.87	+17 37.8	1.398	2.241	16.9	19.5

373859 2003 QW_{83} 1 27.1 136°.77 0°.3/27.3 18

12 23	8 59.98	+16 16.6	2.198	3.001	12.7	21.9
1 2	8 54.89	+16 33.9	2.119	3.006	9.6	21.8
1 12	8 47.78	+16 59.1	2.064	3.011	6.0	21.5
1 22	8 39.29	+17 29.1	2.036	3.016	2.1	21.3
2 1	8 30.26	+18 0.2	2.039	3.021	1.9	21.3
2 11	8 21.71	+18 28.8	2.072	3.025	5.8	21.5
2 21	8 14.49	+18 52.4	2.132	3.030	9.4	21.8
3 2	8 9.28	+19 9.3	2.217	3.034	12.4	22.0

334924 2003 YQ_{134} 1 27.1 345°.65 7°.1/22.6 18

12 23	9 1.65	+30 49.3	1.504	2.342	15.8	20.0
1 2	8 57.54	+32 34.3	1.437	2.339	12.3	19.8
1 12	8 50.14	+34 20.4	1.393	2.336	8.9	19.6
1 22	8 40.25	+35 55.8	1.375	2.333	7.1	19.5
2 1	8 29.27	+37 9.5	1.383	2.331	8.5	19.5
2 11	8 18.98	+37 54.6	1.417	2.330	11.8	19.7
2 21	8 10.92	+38 10.4	1.473	2.328	15.4	19.9
3 2	8 6.17	+38 0.5	1.549	2.327	18.6	20.1

309429 2007 TJ_{426} 1 27.1 57°.40 8°.1/30.4 18

12 23	9 2.98	+ 1 26.4	1.531	2.300	18.8	20.2
1 2	8 57.77	+ 0 11.2	1.462	2.309	15.6	20.0
1 12	8 49.85	− 0 43.7	1.413	2.319	12.1	19.8
1 22	8 40.05	− 1 14.9	1.388	2.329	9.2	19.7
2 1	8 29.54	− 1 21.2	1.388	2.339	8.2	19.6
2 11	8 19.73	− 1 5.2	1.414	2.349	9.9	19.8
2 21	8 11.80	− 0 32.7	1.465	2.359	13.0	20.0
3 2	8 6.60	+ 0 9.8	1.538	2.370	16.2	20.2

249682 1999 XW_{135} 1 27.1 69°.10 11°.9/29.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.20	+ 0 55.7	1.147	1.926	23.3	19.9
1 2	9 3.99	− 1 28.8	1.084	1.934	19.6	19.7
1 12	8 54.12	− 3 31.8	1.041	1.943	15.8	19.5
1 22	8 41.59	− 5 4.4	1.019	1.952	12.7	19.3
2 1	8 28.05	− 5 59.9	1.020	1.960	11.9	19.3
2 11	8 15.51	− 6 18.4	1.045	1.969	13.9	19.5
2 21	8 5.63	− 6 5.9	1.092	1.978	17.2	19.7
3 2	7 59.47	− 5 32.4	1.158	1.987	20.6	19.9

399702 2004 TQ_{253} 1 27.1 200°.68 1°.6/27.9 18

12 23	9 3.47	+12 26.5	2.017	2.807	14.2	23.2
1 2	8 57.79	+12 41.7	1.925	2.803	10.9	22.9
1 12	8 49.76	+13 8.9	1.857	2.798	7.1	22.7
1 22	8 40.02	+13 45.6	1.816	2.792	3.1	22.4
2 1	8 29.52	+14 27.8	1.805	2.786	2.4	22.4
2 11	8 19.42	+15 10.9	1.824	2.778	6.4	22.6
2 21	8 10.76	+15 51.1	1.872	2.770	10.4	22.8
3 2	8 4.36	+16 25.4	1.944	2.761	13.9	23.0

496060 2009 DZ_{121} 1 27.1 263°.36 4°.0/29.5 17

12 23	8 59.65	+ 5 36.5	1.864	2.642	15.6	22.3
1 2	8 55.23	+ 5 48.5	1.759	2.623	12.5	22.1
1 12	8 48.36	+ 6 19.9	1.676	2.604	9.0	21.8
1 22	8 39.61	+ 7 10.3	1.618	2.584	5.4	21.5
2 1	8 29.87	+ 8 16.6	1.589	2.563	4.2	21.4
2 11	8 20.35	+ 9 33.0	1.589	2.542	7.2	21.6
2 21	8 12.18	+10 53.0	1.616	2.521	11.3	21.7
3 2	8 6.31	+12 10.3	1.666	2.500	15.1	21.9

113166 2002 RV_{100} 1 27.1 106°.68 1°.4/27.9 18 R

12 23	9 2.61	+12 57.6	1.934	2.730	14.5	20.4
1 2	8 56.95	+13 15.0	1.867	2.749	11.0	20.2
1 12	8 49.08	+13 43.9	1.824	2.767	7.1	20.0
1 22	8 39.73	+14 21.0	1.808	2.786	3.0	19.8
2 1	8 29.89	+15 2.1	1.822	2.803	2.3	19.8
2 11	8 20.69	+15 42.8	1.866	2.820	6.2	20.1
2 21	8 13.09	+16 19.4	1.937	2.837	10.0	20.3
3 2	8 7.75	+16 49.5	2.032	2.853	13.2	20.6

286845 2002 NE_{60} 1 27.1 86°.66 1°.8/26.1 18

12 23	9 2.49	+23 17.9	2.138	2.951	12.7	20.9
1 2	8 56.79	+23 34.0	2.069	2.963	9.5	20.7
1 12	8 48.94	+23 52.2	2.024	2.975	5.9	20.5
1 22	8 39.67	+24 8.4	2.008	2.986	2.4	20.3
2 1	8 29.95	+24 19.0	2.021	2.998	3.0	20.3
2 11	8 20.87	+24 21.3	2.064	3.009	6.5	20.6
2 21	8 13.33	+24 14.6	2.134	3.021	9.9	20.8
3 2	8 7.98	+23 59.6	2.229	3.032	12.8	21.0

133488 2003 SY_{266} 1 27.1 22°.40 1°.4/26.3 18

12 23	8 59.77	+20 41.5	1.995	2.813	13.3	20.1
1 2	8 55.01	+21 11.6	1.917	2.814	10.0	19.9
1 12	8 48.00	+21 47.5	1.863	2.815	6.2	19.7
1 22	8 39.40	+22 24.6	1.836	2.816	2.3	19.4
2 1	8 30.18	+22 58.1	1.839	2.818	2.8	19.5
2 11	8 21.47	+23 24.0	1.870	2.819	6.8	19.7
2 21	8 14.28	+23 40.1	1.928	2.821	10.5	19.9
3 2	8 9.32	+23 46.0	2.010	2.823	13.7	20.2

223667 2004 PW_{43} 1 27.1 159°.05 1°.8/28.3 18

12 23	8 59.66	+11 22.0	2.211	3.000	13.1	21.0
1 2	8 54.64	+11 35.1	2.128	3.004	10.1	20.8
1 12	8 47.63	+11 59.7	2.068	3.008	6.7	20.6
1 22	8 39.25	+12 33.5	2.037	3.011	3.1	20.4
2 1	8 30.32	+13 13.3	2.035	3.014	2.4	20.3
2 11	8 21.81	+13 55.1	2.063	3.017	5.7	20.5
2 21	8 14.58	+14 35.3	2.119	3.020	9.2	20.7
3 2	8 9.30	+15 10.9	2.200	3.022	12.3	21.0

16945 1998 HD_{46} 1 27.1 23°.56 0°.8/26.6 18

12 23	8 57.62	+18 51.9	1.864	2.685	13.9	17.4
1 2	8 53.44	+19 19.9	1.794	2.693	10.4	17.2
1 12	8 47.02	+19 55.3	1.749	2.701	6.4	17.0
1 22	8 39.05	+20 33.8	1.730	2.710	2.2	16.7
2 1	8 30.53	+21 10.6	1.739	2.720	2.5	16.7
2 11	8 22.60	+21 41.2	1.777	2.730	6.7	17.0
2 21	8 16.23	+22 3.2	1.841	2.741	10.5	17.3
3 2	8 12.12	+22 15.4	1.929	2.752	13.8	17.5

452501 2004 RN_{28} 1 27.1 136°.45 0°.8/27.5 18

12 23	9 4.55	+14 7.6	1.943	2.738	14.4	22.5
1 2	8 58.48	+14 35.9	1.871	2.753	11.0	22.3
1 12	8 50.08	+15 15.3	1.823	2.768	7.0	22.1
1 22	8 40.09	+16 1.8	1.803	2.782	2.6	21.9
2 1	8 29.54	+16 50.6	1.813	2.795	2.2	21.9
2 11	8 19.60	+17 36.7	1.854	2.807	6.4	22.2
2 21	8 11.28	+18 16.6	1.922	2.819	10.3	22.4
3 2	8 5.32	+18 48.2	2.015	2.829	13.6	22.7

381631 2008 YR_{25} 1 27.1 37°.86 2°.9/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 58.68	+23 36.1	1.964	2.789	13.2	20.6
1 2	8 54.27	+24 38.6	1.895	2.795	9.9	20.4
1 12	8 47.57	+25 45.6	1.850	2.802	6.2	20.2
1 22	8 39.26	+26 50.9	1.833	2.809	3.2	20.0
2 1	8 30.33	+27 48.1	1.845	2.817	4.1	20.1
2 11	8 21.94	+28 32.1	1.886	2.824	7.6	20.3
2 21	8 15.09	+29 0.9	1.952	2.832	11.0	20.5
3 2	8 10.54	+29 14.6	2.042	2.840	14.0	20.7

411344 2010 UE_{65} 1 27.1 142°.42 0°.7/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.69	+18 56.8	2.031	2.839	13.4	22.3
1 2	8 57.09	+19 24.6	1.956	2.847	10.1	22.1
1 12	8 49.23	+19 59.2	1.905	2.855	6.3	21.9
1 22	8 39.81	+20 36.1	1.882	2.862	2.1	21.6
2 1	8 29.81	+21 10.9	1.889	2.869	2.4	21.6
2 11	8 20.38	+21 39.4	1.925	2.875	6.5	21.9
2 21	8 12.49	+21 59.5	1.989	2.882	10.2	22.1
3 2	8 6.86	+22 10.2	2.078	2.887	13.4	22.4

401834 1999 TB_{167} 1 27.1 144°.18 1°.3/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.45	+21 1.7	1.912	2.722	14.1	21.3
1 2	8 59.28	+21 21.3	1.838	2.731	10.6	21.1
1 12	8 50.64	+21 45.5	1.789	2.739	6.6	20.8
1 22	8 40.30	+22 9.9	1.767	2.746	2.4	20.6
2 1	8 29.36	+22 29.9	1.774	2.754	2.8	20.6
2 11	8 19.10	+22 41.9	1.812	2.760	7.0	20.9
2 21	8 10.58	+22 44.7	1.876	2.766	10.8	21.2
3 2	8 4.56	+22 38.5	1.965	2.772	14.1	21.4

332162 2005 YW_{178} 1 27.1 165°.85 0°.1/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.66	+17 52.5	2.381	3.180	12.0	21.4
1 2	8 56.01	+18 1.5	2.298	3.184	9.0	21.2
1 12	8 48.43	+18 16.0	2.240	3.187	5.7	21.0
1 22	8 39.52	+18 33.3	2.210	3.190	1.9	20.8
2 1	8 30.12	+18 50.4	2.211	3.193	1.9	20.8
2 11	8 21.16	+19 4.5	2.243	3.195	5.6	21.0
2 21	8 13.49	+19 13.8	2.304	3.197	9.0	21.2
3 2	8 7.75	+19 17.3	2.389	3.198	11.9	21.4

166756 2002 UB_{20} 1 27.1 17°.00 2°.8/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.52	+24 31.7	1.822	2.650	13.9	19.2
1 2	8 55.03	+25 6.9	1.752	2.654	10.4	19.0
1 12	8 48.09	+25 45.0	1.706	2.659	6.6	18.8
1 22	8 39.45	+26 20.2	1.687	2.664	3.2	18.6
2 1	8 30.20	+26 47.2	1.696	2.670	4.0	18.6
2 11	8 21.59	+27 2.1	1.733	2.676	7.7	18.9
2 21	8 14.70	+27 3.8	1.795	2.683	11.4	19.1
3 2	8 10.27	+26 53.1	1.880	2.690	14.6	19.3

201299 2002 SX_{70} 1 27.1 73°.07 1°.9/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.22	+23 10.9	2.106	2.922	12.7	20.8
1 2	8 55.94	+23 33.7	2.032	2.928	9.5	20.6
1 12	8 48.49	+23 59.2	1.984	2.934	6.0	20.4
1 22	8 39.56	+24 23.1	1.963	2.941	2.5	20.2
2 1	8 30.11	+24 41.2	1.971	2.948	3.1	20.2
2 11	8 21.24	+24 50.6	2.009	2.954	6.7	20.5
2 21	8 13.88	+24 50.1	2.074	2.961	10.1	20.7
3 2	8 8.72	+24 40.2	2.162	2.967	13.1	20.9

62108 2000 RS_{97} 1 27.1 276°.89 8°.7/ 1.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.81	− 8 23.4	2.510	3.196	14.3	18.9
1 2	8 53.14	− 9 31.1	2.415	3.188	12.6	18.8
1 12	8 46.70	−10 20.8	2.341	3.181	10.8	18.6
1 22	8 38.97	−10 49.5	2.291	3.173	9.3	18.5
2 1	8 30.65	−10 55.4	2.267	3.165	8.7	18.5
2 11	8 22.57	−10 39.4	2.269	3.157	9.2	18.5
2 21	8 15.50	−10 4.8	2.297	3.150	10.7	18.6
3 2	8 10.12	− 9 16.5	2.349	3.142	12.6	18.7

266670 2008 YZ_{109} 1 27.1 254°.37 1°.6/26.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.55	+22 28.1	2.398	3.209	11.5	21.1
1 2	8 54.58	+22 53.9	2.308	3.202	8.7	20.9
1 12	8 47.63	+23 23.1	2.244	3.195	5.4	20.7
1 22	8 39.29	+23 51.8	2.209	3.187	2.2	20.5
2 1	8 30.36	+24 16.2	2.203	3.180	2.8	20.5
2 11	8 21.82	+24 33.2	2.228	3.173	6.1	20.7
2 21	8 14.52	+24 41.2	2.280	3.165	9.4	20.9
3 2	8 9.15	+24 39.9	2.356	3.157	12.3	21.1

31910 Moustafa 1 27.1 61°.13 7°.8/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.69	+33 25.1	1.322	2.157	17.7	19.0
1 2	9 2.99	+34 34.6	1.269	2.167	13.8	18.8
1 12	8 53.50	+35 38.2	1.237	2.177	10.1	18.6
1 22	8 41.38	+36 24.5	1.230	2.188	7.8	18.5
2 1	8 28.44	+36 44.0	1.248	2.199	8.9	18.6
2 11	8 16.79	+36 33.8	1.290	2.209	12.2	18.8
2 21	8 8.03	+35 57.3	1.356	2.220	15.9	19.1
3 2	8 3.09	+35 0.8	1.440	2.232	19.2	19.3

26240 Leigheriks 1 27.1 122°.33 1°.1/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.68	+12 54.4	1.689	2.489	16.0	18.8
1 2	8 58.87	+13 26.4	1.621	2.506	12.2	18.6
1 12	8 50.47	+14 12.5	1.577	2.522	7.8	18.4
1 22	8 40.28	+15 8.3	1.559	2.537	3.1	18.1
2 1	8 29.46	+16 7.8	1.571	2.552	2.4	18.1
2 11	8 19.36	+17 4.9	1.611	2.566	7.0	18.4
2 21	8 11.11	+17 54.9	1.679	2.580	11.2	18.7
3 2	8 5.48	+18 35.2	1.770	2.593	14.8	18.9

441755 2009 CU_{5} 1 27.1 225°.74 7°.5/ 2.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.34	− 9 24.6	1.338	2.062	23.1	21.0
1 2	9 0.44	− 7 42.6	1.241	2.058	19.7	20.7
1 12	8 52.13	− 5 5.1	1.161	2.054	15.3	20.4
1 22	8 41.07	− 1 30.1	1.106	2.050	10.6	20.1
2 1	8 28.54	+ 2 53.0	1.080	2.046	7.6	20.0
2 11	8 16.34	+ 7 41.6	1.087	2.041	9.7	20.1
2 21	8 6.18	+12 27.6	1.126	2.036	14.6	20.3
3 2	7 59.37	+16 47.9	1.192	2.031	19.5	20.6

469017 2015 AQ_{233} 1 27.1 351°.88 2°.9/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 56.36	+ 7 25.5	2.095	2.879	13.9	21.1
1 2	8 52.33	+ 7 49.0	2.008	2.878	10.9	20.9
1 12	8 46.30	+ 8 28.6	1.944	2.877	7.5	20.7
1 22	8 38.86	+ 9 22.3	1.907	2.876	4.1	20.5
2 1	8 30.81	+10 26.5	1.899	2.876	3.1	20.4
2 11	8 23.12	+11 35.9	1.920	2.875	6.0	20.6
2 21	8 16.68	+12 45.1	1.969	2.875	9.5	20.8
3 2	8 12.19	+13 49.6	2.043	2.875	12.7	21.0

401965 2002 TJ_{99} 1 27.1 67°.64 2°.5/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.19	+24 57.3	1.566	2.385	16.2	21.3
1 2	9 2.95	+25 2.8	1.518	2.414	12.1	21.1
1 12	8 52.87	+25 8.6	1.492	2.442	7.6	21.0
1 22	8 41.02	+25 9.3	1.492	2.470	3.3	20.8
2 1	8 28.88	+25 0.6	1.522	2.499	3.8	20.9
2 11	8 17.96	+24 41.1	1.580	2.526	8.0	21.2
2 21	8 9.42	+24 11.9	1.664	2.554	12.0	21.5
3 2	8 3.90	+23 35.1	1.771	2.582	15.3	21.7

307219 2002 GN_{80} 1 27.1 296°.52 0°.6/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.12	+15 3.2	1.498	2.320	16.7	21.0
1 2	8 56.18	+15 25.3	1.404	2.301	12.9	20.7
1 12	8 49.27	+16 2.0	1.332	2.283	8.3	20.4
1 22	8 40.03	+16 49.5	1.285	2.265	3.0	20.0
2 1	8 29.61	+17 42.0	1.265	2.247	2.7	20.0
2 11	8 19.56	+18 32.7	1.272	2.229	8.1	20.2
2 21	8 11.32	+19 16.2	1.303	2.212	13.2	20.5
3 2	8 6.01	+19 49.2	1.356	2.194	17.6	20.7

87000 2000 JE_{43} 1 27.1 142°.51 2°.5/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.03	+23 35.9	2.089	2.902	12.9	20.6
1 2	8 57.39	+24 21.0	2.016	2.910	9.7	20.4
1 12	8 49.46	+25 9.5	1.968	2.918	6.1	20.2
1 22	8 39.95	+25 55.8	1.949	2.926	2.9	20.0
2 1	8 29.86	+26 34.7	1.959	2.933	3.6	20.0
2 11	8 20.33	+27 2.1	1.999	2.939	7.1	20.3
2 21	8 12.35	+27 16.7	2.066	2.945	10.5	20.5
3 2	8 6.68	+27 18.8	2.157	2.951	13.5	20.7

190534 2000 RH_{8} 1 27.1 55°.31 16°.9/ 8.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.63	−18 34.7	1.063	1.772	28.8	19.5
1 2	8 55.54	−19 21.9	1.008	1.784	26.0	19.4
1 12	8 49.00	−19 16.4	0.963	1.796	22.9	19.2
1 22	8 39.93	−18 9.3	0.933	1.809	19.8	19.0
2 1	8 29.87	−15 58.3	0.920	1.823	17.6	18.9
2 11	8 20.71	−12 53.1	0.928	1.836	17.0	19.0
2 21	8 14.04	− 9 13.0	0.957	1.850	18.3	19.1
3 2	8 10.89	− 5 21.5	1.007	1.864	20.9	19.3

17016 1999 CV_{123} 1 27.1 191°.36 6°.0/22.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.05	+35 8.8	2.284	3.092	12.1	18.2
1 2	8 59.84	+36 17.2	2.210	3.090	9.6	18.0
1 12	8 51.10	+37 21.2	2.161	3.088	7.2	17.9
1 22	8 40.56	+38 13.1	2.140	3.086	6.0	17.8
2 1	8 29.29	+38 46.9	2.148	3.083	6.9	17.8
2 11	8 18.57	+38 59.5	2.184	3.080	9.2	18.0
2 21	8 9.52	+38 51.3	2.246	3.075	11.8	18.1
3 2	8 2.96	+38 25.3	2.331	3.071	14.1	18.3

408235 2013 EW_{101} 1 27.1 155°.64 2°.8/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.54	+24 20.8	2.124	2.934	12.8	21.4
1 2	8 58.53	+25 13.3	2.050	2.943	9.6	21.2
1 12	8 50.19	+26 8.8	2.002	2.950	6.1	21.0
1 22	8 40.23	+27 1.4	1.982	2.957	3.1	20.9
2 1	8 29.65	+27 45.3	1.993	2.964	3.9	20.9
2 11	8 19.62	+28 16.5	2.033	2.969	7.3	21.1
2 21	8 11.16	+28 33.5	2.101	2.974	10.6	21.4
3 2	8 5.04	+28 37.1	2.192	2.978	13.6	21.6

223254 2003 FZ_{79} 1 27.1 201°.66 2°.5/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 1.73	+24 57.1	2.676	3.481	10.6	21.5
1 2	8 56.11	+25 46.2	2.587	3.476	8.0	21.3
1 12	8 48.57	+26 37.7	2.524	3.471	5.1	21.1
1 22	8 39.67	+27 26.8	2.490	3.464	2.7	21.0
2 1	8 30.17	+28 9.2	2.488	3.457	3.4	21.0
2 11	8 20.99	+28 41.2	2.517	3.450	6.3	21.2
2 21	8 12.96	+29 1.3	2.574	3.441	9.1	21.3
3 2	8 6.76	+29 9.7	2.655	3.432	11.7	21.5

393659 2004 RR_{16} 1 27.1 172°.54 0°.8/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.64	+18 19.3	1.923	2.729	14.1	22.2
1 2	8 58.79	+18 57.8	1.843	2.733	10.7	22.0
1 12	8 50.46	+19 44.7	1.787	2.736	6.6	21.7
1 22	8 40.35	+20 35.2	1.758	2.739	2.3	21.5
2 1	8 29.52	+21 23.6	1.760	2.740	2.6	21.5
2 11	8 19.22	+22 4.8	1.792	2.741	6.9	21.8
2 21	8 10.55	+22 35.8	1.850	2.741	10.9	22.0
3 2	8 4.34	+22 55.8	1.933	2.741	14.3	22.2

42298 2001 UP_{123} 1 27.1 349°.42 16°.5/ 9.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 51.16	−18 59.4	1.190	1.894	26.5	17.8
1 2	8 49.84	−19 39.1	1.113	1.884	24.3	17.5
1 12	8 45.49	−19 29.3	1.048	1.876	21.8	17.3
1 22	8 38.79	−18 20.1	0.997	1.869	19.2	17.1
2 1	8 30.95	−16 6.2	0.964	1.864	17.2	17.0
2 11	8 23.61	−12 53.2	0.951	1.860	16.6	16.9
2 21	8 18.28	− 8 57.5	0.960	1.858	17.8	17.0
3 2	8 16.10	− 4 42.2	0.990	1.858	20.4	17.1

131858 2002 AC_{145} 1 27.1 242°.48 0°.1/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.00	+15 54.3	1.735	2.546	15.2	20.2
1 2	8 57.19	+16 32.1	1.644	2.536	11.6	19.9
1 12	8 49.70	+17 22.7	1.576	2.525	7.3	19.6
1 22	8 40.16	+18 21.5	1.534	2.514	2.5	19.3
2 1	8 29.66	+19 22.3	1.521	2.503	2.5	19.3
2 11	8 19.54	+20 18.7	1.537	2.491	7.4	19.6
2 21	8 11.07	+21 5.9	1.579	2.478	11.9	19.8
3 2	8 5.20	+21 41.5	1.644	2.466	15.8	20.0

334203 2001 SO_{298} 1 27.1 118°.58 0°.2/27.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.64	+18 4.4	2.539	3.339	11.3	21.8
1 2	8 54.38	+18 19.3	2.463	3.350	8.5	21.7
1 12	8 47.38	+18 39.6	2.412	3.360	5.3	21.5
1 22	8 39.22	+19 2.4	2.391	3.371	1.8	21.3
2 1	8 30.66	+19 24.6	2.400	3.381	1.8	21.3
2 11	8 22.54	+19 43.5	2.440	3.391	5.2	21.5
2 21	8 15.61	+19 57.3	2.508	3.401	8.3	21.7
3 2	8 10.43	+20 5.2	2.602	3.411	11.0	21.9

170951 2005 BG_{11} 1 27.1 348°.83 1°.5/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.45	+21 30.9	1.231	2.075	18.2	19.5
1 2	8 57.59	+21 33.6	1.158	2.068	13.9	19.2
1 12	8 50.27	+21 42.5	1.106	2.062	8.7	18.9
1 22	8 40.40	+21 52.3	1.076	2.057	3.2	18.5
2 1	8 29.49	+21 57.2	1.072	2.053	3.6	18.6
2 11	8 19.43	+21 52.9	1.093	2.050	9.2	18.9
2 21	8 11.78	+21 38.0	1.137	2.048	14.5	19.2
3 2	8 7.59	+21 13.4	1.201	2.047	18.9	19.4

100686 1997 YA_{3} 1 27.1 52°.93 3°.5/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.77	+22 33.8	1.578	2.410	15.5	19.5
1 2	8 56.30	+24 3.3	1.522	2.426	11.6	19.2
1 12	8 49.06	+25 39.9	1.489	2.442	7.3	19.0
1 22	8 39.89	+27 14.4	1.483	2.459	3.8	18.9
2 1	8 30.02	+28 37.3	1.506	2.476	5.0	19.0
2 11	8 20.91	+29 41.8	1.556	2.494	8.9	19.2
2 21	8 13.76	+30 25.3	1.630	2.511	12.7	19.5
3 2	8 9.41	+30 48.4	1.727	2.529	16.0	19.8

330529 2007 VA_{18} 1 27.1 170°.93 1°.4/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.25	+20 25.6	2.028	2.836	13.4	22.1
1 2	8 58.39	+21 4.5	1.948	2.840	10.1	21.9
1 12	8 50.16	+21 49.6	1.893	2.843	6.3	21.6
1 22	8 40.25	+22 35.8	1.866	2.846	2.3	21.4
2 1	8 29.66	+23 17.8	1.870	2.848	2.9	21.4
2 11	8 19.60	+23 51.2	1.903	2.849	6.9	21.7
2 21	8 11.10	+24 13.6	1.964	2.850	10.6	21.9
3 2	8 4.96	+24 24.7	2.048	2.850	13.8	22.1

127402 2002 LP_{27} 1 27.1 222°.63 1°.6/28.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.51	+12 10.9	2.708	3.489	11.2	20.7
1 2	8 54.31	+12 12.8	2.606	3.478	8.7	20.5
1 12	8 47.40	+12 23.2	2.530	3.468	5.7	20.3
1 22	8 39.27	+12 40.4	2.482	3.456	2.7	20.1
2 1	8 30.59	+13 2.5	2.465	3.444	2.1	20.0
2 11	8 22.18	+13 26.6	2.479	3.432	5.0	20.2
2 21	8 14.76	+13 50.4	2.522	3.419	8.1	20.3
3 2	8 8.96	+14 11.8	2.592	3.406	10.9	20.5

15690 1982 JD_{3} 1 27.1 81°.40 3°.9/25.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.31	+23 48.3	1.443	2.276	16.6	17.7
1 2	8 59.24	+25 1.5	1.384	2.288	12.5	17.4
1 12	8 51.02	+26 20.6	1.348	2.301	8.0	17.2
1 22	8 40.59	+27 36.3	1.338	2.313	4.2	17.0
2 1	8 29.37	+28 39.2	1.355	2.326	5.3	17.1
2 11	8 19.04	+29 22.8	1.399	2.338	9.5	17.4
2 21	8 10.98	+29 45.6	1.467	2.351	13.7	17.7
3 2	8 6.09	+29 49.1	1.556	2.363	17.3	17.9

163749 2003 NR_{7} 1 27.1 142°.16 0°.7/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.14	+14 59.8	2.022	2.818	13.9	20.8
1 2	8 58.15	+15 19.7	1.948	2.831	10.6	20.6
1 12	8 49.91	+15 49.2	1.897	2.843	6.7	20.4
1 22	8 40.14	+16 24.8	1.875	2.854	2.5	20.1
2 1	8 29.81	+17 2.2	1.882	2.864	2.1	20.1
2 11	8 20.05	+17 37.3	1.920	2.874	6.2	20.4
2 21	8 11.84	+18 7.1	1.986	2.882	10.0	20.6
3 2	8 5.90	+18 29.7	2.076	2.891	13.2	20.9

331889 2004 FN_{141} 1 27.1 289°.50 7°.2/23.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.50	+34 58.3	1.728	2.550	14.8	20.4
1 2	9 0.99	+35 57.1	1.648	2.537	11.8	20.2
1 12	8 52.24	+36 50.9	1.591	2.524	8.8	20.0
1 22	8 41.08	+37 30.3	1.559	2.511	7.2	19.9
2 1	8 28.90	+37 47.5	1.554	2.499	8.2	19.9
2 11	8 17.41	+37 38.5	1.576	2.486	11.1	20.1
2 21	8 8.12	+37 4.8	1.622	2.473	14.4	20.2
3 2	8 2.05	+36 11.1	1.688	2.461	17.5	20.4

413150 2002 ED_{9} 1 27.1 355°.86 10°.7/ 3.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 48.02	− 6 39.2	1.173	1.953	22.8	19.3
1 2	8 47.33	− 6 55.2	1.098	1.943	19.8	19.0
1 12	8 43.84	− 6 30.6	1.038	1.935	16.3	18.8
1 22	8 38.22	− 5 20.7	0.996	1.930	12.9	18.6
2 1	8 31.62	− 3 26.2	0.976	1.927	10.9	18.5
2 11	8 25.56	− 0 56.7	0.979	1.926	11.6	18.5
2 21	8 21.38	+ 1 52.3	1.004	1.927	14.6	18.7
3 2	8 20.13	+ 4 43.8	1.050	1.931	18.4	18.9

463248 2012 FK_{43} 1 27.1 259°.73 5°.9/30.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.87	+ 0 6.0	2.192	2.935	14.6	21.8
1 2	8 54.31	− 0 9.9	2.083	2.916	12.2	21.5
1 12	8 47.68	− 0 7.5	1.996	2.896	9.4	21.3
1 22	8 39.47	+ 0 14.4	1.934	2.875	6.9	21.1
2 1	8 30.45	+ 0 55.4	1.900	2.855	6.0	21.0
2 11	8 21.62	+ 1 52.1	1.894	2.833	7.5	21.1
2 21	8 13.91	+ 2 59.5	1.916	2.811	10.4	21.2
3 2	8 8.11	+ 4 11.7	1.963	2.789	13.5	21.4

460574 2014 UA_{7} 1 27.1 306°.11 0°.4/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.80	+17 19.3	1.821	2.636	14.4	21.2
1 2	8 55.33	+17 52.2	1.738	2.633	10.9	21.0
1 12	8 48.41	+18 35.0	1.679	2.630	6.8	20.7
1 22	8 39.71	+19 23.4	1.646	2.627	2.3	20.4
2 1	8 30.27	+20 11.8	1.642	2.624	2.4	20.4
2 11	8 21.30	+20 55.0	1.667	2.621	7.0	20.7
2 21	8 13.91	+21 29.4	1.718	2.618	11.1	21.0
3 2	8 8.92	+21 53.1	1.793	2.615	14.7	21.2

17749 1998 DW_{1} 1 27.1 101°.72 2°.1/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.15	+20 59.2	1.789	2.602	14.8	18.6
1 2	8 59.89	+22 0.0	1.734	2.628	11.0	18.4
1 12	8 51.07	+23 6.9	1.703	2.653	6.8	18.2
1 22	8 40.57	+24 12.8	1.699	2.678	2.8	18.0
2 1	8 29.54	+25 10.9	1.726	2.702	3.6	18.1
2 11	8 19.34	+25 56.1	1.782	2.725	7.5	18.4
2 21	8 11.03	+26 26.3	1.864	2.748	11.3	18.6
3 2	8 5.35	+26 42.1	1.970	2.769	14.4	18.9

123673 2000 YP_{88} 1 27.1 54°.72 2°.0/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.61	+12 9.4	1.846	2.648	14.8	19.8
1 2	8 54.95	+12 13.4	1.772	2.656	11.4	19.6
1 12	8 48.03	+12 29.7	1.721	2.664	7.5	19.3
1 22	8 39.54	+12 56.0	1.697	2.672	3.4	19.1
2 1	8 30.48	+13 28.8	1.701	2.681	2.6	19.1
2 11	8 21.98	+14 3.7	1.733	2.690	6.4	19.3
2 21	8 15.03	+14 36.8	1.793	2.699	10.3	19.6
3 2	8 10.35	+15 5.3	1.876	2.708	13.7	19.8

207832 2007 TR_{391} 1 27.1 60°.82 0°.7/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.29	+19 21.3	2.160	2.971	12.6	20.7
1 2	8 54.47	+19 44.2	2.085	2.979	9.5	20.5
1 12	8 47.62	+20 13.0	2.036	2.987	5.9	20.3
1 22	8 39.38	+20 43.8	2.014	2.994	2.0	20.0
2 1	8 30.64	+21 12.7	2.022	3.002	2.3	20.1
2 11	8 22.41	+21 36.2	2.059	3.010	6.0	20.3
2 21	8 15.57	+21 52.2	2.124	3.018	9.5	20.6
3 2	8 10.76	+21 59.9	2.213	3.026	12.5	20.8

384523 2010 DE_{22} 1 27.1 2.°74 1.°3/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 56.72	+17 58.0	2.061	2.877	13.0	20.0
1 2	8 52.79	+19 10.6	1.981	2.877	9.7	19.8
1 12	8 46.73	+20 33.7	1.925	2.877	6.0	19.6
1 22	8 39.13	+22 1.4	1.897	2.877	2.2	19.3
2 1	8 30.85	+23 27.1	1.900	2.878	2.8	19.4
2 11	8 22.95	+24 44.2	1.932	2.879	6.7	19.6
2 21	8 16.38	+25 48.6	1.991	2.880	10.3	19.9
3 2	8 11.89	+26 38.0	2.074	2.882	13.5	20.1

243910 2001 FJ_{122} 1 27.1 21.°39 5.°5/30.6 18

12 23	8 56.04	+ 2 48.5	1.643	2.426	17.2	19.5
1 2	8 52.50	+ 2 44.6	1.571	2.432	13.9	19.3
1 12	8 46.62	+ 3 3.1	1.519	2.439	10.3	19.1
1 22	8 39.09	+ 3 43.7	1.490	2.447	6.9	18.9
2 1	8 30.92	+ 4 43.3	1.489	2.456	5.6	18.9
2 11	8 23.29	+ 5 55.8	1.514	2.465	7.7	19.0
2 21	8 17.24	+ 7 13.9	1.564	2.475	11.2	19.2
3 2	8 13.54	+ 8 30.7	1.638	2.486	14.6	19.5

369341 2009 SC_{326} 1 27.1 54.°25 1.°4/28.1 18

12 23	8 58.66	+11 51.9	1.770	2.575	15.2	21.3
1 2	8 54.34	+12 24.0	1.700	2.587	11.6	21.1
1 12	8 47.70	+13 10.7	1.654	2.598	7.5	20.9
1 22	8 39.45	+14 8.4	1.633	2.610	3.2	20.7
2 1	8 30.61	+15 11.5	1.641	2.622	2.3	20.6
2 11	8 22.34	+16 14.2	1.677	2.635	6.5	20.9
2 21	8 15.66	+17 11.1	1.741	2.647	10.6	21.2
3 2	8 11.31	+17 59.1	1.827	2.659	14.0	21.4

262916 2007 CK_{58} 1 27.1 37.°02 0.°3/26.9 18

12 23	8 59.04	+ 9 39.6	1.336	2.152	18.6	19.0
1 2	8 55.26	+11 59.2	1.279	2.174	14.0	18.8
1 12	8 48.57	+14 45.2	1.246	2.197	8.7	18.6
1 22	8 39.81	+17 46.0	1.240	2.221	2.9	18.3
2 1	8 30.27	+20 45.7	1.264	2.245	3.0	18.4
2 11	8 21.51	+23 29.0	1.317	2.270	8.4	18.8
2 21	8 14.81	+25 46.0	1.396	2.296	13.1	19.1
3 2	8 11.07	+27 33.0	1.498	2.322	17.0	19.4

148628 2001 RP_{151} 1 27.1 182.°22 4.°1/24.2 18

12 23	9 4.13	+28 50.5	2.333	3.144	11.8	20.4
1 2	8 58.23	+29 53.0	2.255	3.145	9.0	20.3
1 12	8 50.06	+30 55.6	2.203	3.145	6.1	20.1
1 22	8 40.27	+31 52.0	2.179	3.145	4.2	20.0
2 1	8 29.81	+32 36.3	2.186	3.144	5.0	20.0
2 11	8 19.81	+33 4.8	2.222	3.142	7.7	20.2
2 21	8 11.26	+33 16.6	2.285	3.140	10.7	20.4
3 2	8 4.94	+33 13.1	2.372	3.137	13.3	20.5

357338 2003 PE_{11} 1 27.1 143.°24 1.°7/28.3 18

12 23	9 2.87	+11 8.3	2.082	2.867	13.9	22.1
1 2	8 57.16	+11 31.7	2.005	2.879	10.7	21.9
1 12	8 49.32	+12 7.7	1.952	2.891	7.0	21.7
1 22	8 39.99	+12 53.5	1.927	2.902	3.2	21.5
2 1	8 30.11	+13 45.0	1.933	2.913	2.4	21.4
2 11	8 20.75	+14 37.3	1.968	2.923	6.0	21.7
2 21	8 12.82	+15 26.2	2.032	2.932	9.7	21.9
3 2	8 7.03	+16 8.9	2.121	2.940	12.9	22.1

456449 2006 VV_{97} 1 27.1 40.°15 3.°4/25.6 18

12 23	9 3.38	+24 55.5	1.466	2.300	16.3	21.3
1 2	8 58.42	+25 30.9	1.408	2.312	12.3	21.1
1 12	8 50.45	+26 9.0	1.371	2.324	7.8	20.9
1 22	8 40.42	+26 42.6	1.359	2.336	3.9	20.7
2 1	8 29.75	+27 5.2	1.375	2.349	4.7	20.8
2 11	8 20.02	+27 12.8	1.418	2.363	8.9	21.0
2 21	8 12.52	+27 5.0	1.484	2.376	13.0	21.3
3 2	8 8.06	+26 43.7	1.572	2.391	16.6	21.6

464109 2014 WH_{435} 1 27.1 36.°84 8.°5/24.2 18

12 23	9 10.52	+38 41.3	1.474	2.298	16.8	20.4
1 2	9 3.95	+39 23.2	1.430	2.315	13.5	20.3
1 12	8 53.86	+39 52.1	1.406	2.334	10.4	20.1
1 22	8 41.54	+39 58.8	1.407	2.353	8.6	20.1
2 1	8 28.81	+39 37.3	1.434	2.373	9.3	20.2
2 11	8 17.58	+38 48.0	1.486	2.393	11.8	20.4
2 21	8 9.23	+37 36.3	1.562	2.414	14.8	20.6
3 2	8 4.46	+36 9.6	1.658	2.435	17.6	20.9

247583 2002 TW_{50} 1 27.1 80.°49 6.°7/31.3 18

12 23	9 2.78	− 0 27.7	1.813	2.560	17.1	20.5
1 2	8 57.12	− 0 54.0	1.756	2.590	14.0	20.4
1 12	8 49.25	− 0 58.3	1.720	2.619	10.7	20.2
1 22	8 39.94	− 0 40.3	1.708	2.648	7.9	20.1
2 1	8 30.23	− 0 1.9	1.724	2.677	6.7	20.1
2 11	8 21.25	+ 0 52.0	1.767	2.704	8.1	20.3
2 21	8 13.91	+ 1 55.1	1.838	2.732	10.8	20.5
3 2	8 8.87	+ 3 1.0	1.932	2.759	13.6	20.7

474107 2016 LC_{24} 1 27.1 179.°98 0.°6/27.6 18

12 23	8 56.98	+14 32.6	2.891	3.681	10.3	21.8
1 2	8 52.31	+14 57.8	2.802	3.682	7.8	21.6
1 12	8 46.12	+15 30.4	2.738	3.682	5.0	21.4
1 22	8 38.87	+16 8.0	2.704	3.683	1.9	21.2
2 1	8 31.19	+16 47.9	2.701	3.682	1.5	21.2
2 11	8 23.80	+17 26.7	2.729	3.682	4.6	21.4
2 21	8 17.34	+18 2.0	2.786	3.681	7.5	21.6
3 2	8 12.36	+18 32.0	2.869	3.680	10.1	21.8

58674 1997 YG_{12} 1 27.1 83.°17 0.°6/26.8 18

12 23	9 2.91	+17 45.4	1.859	2.669	14.4	19.6
1 2	8 57.33	+18 23.3	1.801	2.693	10.8	19.4
1 12	8 49.44	+19 9.3	1.767	2.717	6.6	19.2
1 22	8 40.03	+19 58.5	1.761	2.741	2.2	19.0
2 1	8 30.16	+20 45.4	1.784	2.764	2.4	19.0
2 11	8 21.02	+21 25.3	1.836	2.788	6.6	19.3
2 21	8 13.59	+21 55.5	1.915	2.810	10.4	19.6
3 2	8 8.54	+22 15.2	2.019	2.833	13.6	19.9

240602 2004 VV_{31} 1 27.1 212.°57 3.°6/29.1 18

12 23	9 1.90	+ 8 3.1	1.764	2.551	16.0	21.0
1 2	8 56.94	+ 8 0.1	1.676	2.547	12.7	20.8
1 12	8 49.46	+ 8 13.6	1.609	2.542	8.8	20.6
1 22	8 40.13	+ 8 42.5	1.569	2.538	5.0	20.3
2 1	8 29.97	+ 9 23.9	1.556	2.532	3.9	20.2
2 11	8 20.25	+10 12.9	1.573	2.527	7.2	20.4
2 21	8 12.10	+11 4.1	1.615	2.521	11.3	20.6
3 2	8 6.41	+11 52.9	1.682	2.514	15.0	20.9

113901 2002 TX_{274} 1 27.1 94.°88 1.°9/26.3 17

12 23	9 8.30	+21 20.3	1.429	2.252	17.3	20.2
1 2	9 2.05	+21 48.9	1.372	2.271	13.0	20.0
1 12	8 52.68	+22 23.5	1.337	2.289	8.0	19.8
1 22	8 41.19	+22 57.7	1.327	2.307	3.0	19.5
2 1	8 29.09	+23 24.7	1.346	2.325	3.6	19.6
2 11	8 18.04	+23 40.3	1.392	2.342	8.5	19.9
2 21	8 9.39	+23 43.1	1.463	2.359	12.9	20.3
3 2	8 3.94	+23 34.3	1.556	2.375	16.7	20.5

10628 Feuerbacher 1 27.1 225.°52 0.°9/27.8 18

12 23	8 57.37	+13 38.5	2.624	3.415	11.2	18.5
1 2	8 52.79	+14 1.3	2.529	3.409	8.6	18.3
1 12	8 46.52	+14 33.0	2.459	3.403	5.5	18.1
1 22	8 39.04	+15 11.3	2.418	3.396	2.2	17.8
2 1	8 31.03	+15 53.0	2.407	3.389	1.7	17.8
2 11	8 23.30	+16 34.6	2.427	3.381	5.0	18.0
2 21	8 16.58	+17 13.0	2.476	3.374	8.2	18.2
3 2	8 11.48	+17 46.2	2.550	3.366	11.0	18.4

224961 2007 EF_{23} 1 27.1 93.°97 1.°8/26.0 18

12 23	9 0.87	+21 25.0	1.926	2.744	13.6	20.9
1 2	8 56.02	+22 4.4	1.848	2.745	10.3	20.7
1 12	8 48.79	+22 49.6	1.794	2.746	6.4	20.5
1 22	8 39.86	+23 35.5	1.768	2.747	2.6	20.2
2 1	8 30.27	+24 16.5	1.771	2.748	3.2	20.3
2 11	8 21.19	+24 48.0	1.802	2.749	7.2	20.5
2 21	8 13.69	+25 7.8	1.861	2.750	10.9	20.7
3 2	8 8.56	+25 15.6	1.942	2.751	14.2	20.9

342891 2008 YF_{95} 1 27.1 104.°65 1.°4/25.9 18

12 23	8 59.04	+20 11.6	2.423	3.231	11.5	21.1
1 2	8 54.12	+21 6.7	2.353	3.245	8.6	20.9
1 12	8 47.35	+22 7.4	2.309	3.259	5.3	20.7
1 22	8 39.31	+23 9.0	2.293	3.273	2.1	20.5
2 1	8 30.81	+24 6.6	2.309	3.286	2.6	20.6
2 11	8 22.74	+24 56.1	2.355	3.299	5.9	20.8
2 21	8 15.90	+25 34.9	2.429	3.312	9.0	21.0
3 2	8 10.91	+26 2.4	2.527	3.324	11.7	21.2

334056 2001 OU_{29} 1 27.1 88.°38 10.°3/ 4.2 18

12 23	8 59.47	−15 28.5	2.530	3.161	15.3	21.1
1 2	8 54.32	−16 45.9	2.461	3.178	13.8	21.0
1 12	8 47.43	−17 41.1	2.410	3.194	12.3	20.9
1 22	8 39.34	−18 10.5	2.382	3.210	11.0	20.8
2 1	8 30.79	−18 12.7	2.378	3.226	10.4	20.8
2 11	8 22.62	−17 48.9	2.398	3.242	10.5	20.8
2 21	8 15.59	−17 3.3	2.443	3.258	11.4	20.9
3 2	8 10.29	−16 1.5	2.510	3.274	12.6	21.0

409453 2005 QW_{135} 1 27.1 25.°28 2.°5/25.9 18

12 23	9 1.70	+23 5.0	1.528	2.360	15.9	20.9
1 2	8 57.12	+23 36.2	1.462	2.366	11.9	20.7
1 12	8 49.66	+24 12.0	1.418	2.372	7.5	20.5
1 22	8 40.19	+24 46.3	1.400	2.379	3.2	20.2
2 1	8 30.02	+25 12.7	1.409	2.386	4.0	20.3
2 11	8 20.64	+25 26.8	1.445	2.394	8.4	20.6
2 21	8 13.31	+25 27.5	1.506	2.402	12.6	20.8
3 2	8 8.86	+25 15.4	1.589	2.411	16.2	21.1

82703 2001 PC_{40} 1 27.1 213°.65 3°.9/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 57.49	+ 5 15.4	2.463	3.226	12.6	19.3
1 2	8 52.92	+ 5 3.9	2.371	3.224	10.2	19.2
1 12	8 46.62	+ 5 5.6	2.302	3.221	7.4	19.0
1 22	8 39.09	+ 5 20.3	2.260	3.218	4.8	18.8
2 1	8 31.04	+ 5 46.4	2.248	3.215	4.0	18.8
2 11	8 23.30	+ 6 21.1	2.265	3.212	5.9	18.9
2 21	8 16.63	+ 7 0.8	2.310	3.209	8.7	19.0
3 2	8 11.64	+ 7 41.8	2.381	3.206	11.4	19.2

408912 2001 WD_{53} 1 27.1 56°.25 0°.8/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.52	+15 15.7	1.574	2.389	16.3	21.3
1 2	8 57.33	+15 27.1	1.518	2.411	12.4	21.1
1 12	8 49.57	+15 49.5	1.485	2.434	7.8	20.8
1 22	8 40.10	+16 19.2	1.477	2.457	2.9	20.6
2 1	8 30.16	+16 51.2	1.498	2.480	2.4	20.6
2 11	8 21.08	+17 20.8	1.546	2.503	7.0	21.0
2 21	8 13.94	+17 44.8	1.620	2.526	11.2	21.3
3 2	8 9.45	+18 1.3	1.717	2.549	14.8	21.5

295379 2008 HS_{65} 1 27.1 333°.60 7°.7/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.38	+ 0 29.9	1.578	2.351	18.2	19.8
1 2	8 53.80	− 0 13.7	1.492	2.342	15.2	19.6
1 12	8 47.64	− 0 35.1	1.425	2.334	11.9	19.3
1 22	8 39.55	− 0 31.6	1.382	2.326	8.9	19.1
2 1	8 30.58	− 0 2.9	1.363	2.318	7.7	19.0
2 11	8 22.02	+ 0 47.1	1.370	2.312	9.5	19.1
2 21	8 15.06	+ 1 51.7	1.401	2.306	12.7	19.3
3 2	8 10.65	+ 3 3.3	1.454	2.300	16.2	19.5

175300 2005 LD_{44} 1 27.1 177°.57 8°.3/ 2.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.32	−12 7.7	2.981	3.627	13.0	20.4
1 2	8 53.30	−13 6.7	2.891	3.628	11.5	20.3
1 12	8 46.75	−13 48.2	2.822	3.629	10.1	20.2
1 22	8 39.13	−14 9.5	2.777	3.630	8.9	20.1
2 1	8 31.05	−14 9.5	2.758	3.630	8.3	20.1
2 11	8 23.20	−13 49.2	2.765	3.630	8.6	20.1
2 21	8 16.24	−13 11.7	2.799	3.630	9.6	20.2
3 2	8 10.72	−12 21.1	2.856	3.629	11.1	20.3

310149 2011 MW_{6} 1 27.1 205°.98 0°.9/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.25	+17 54.0	1.772	2.583	15.0	21.6
1 2	8 58.86	+18 40.3	1.686	2.578	11.4	21.4
1 12	8 50.76	+19 37.4	1.623	2.573	7.1	21.1
1 22	8 40.64	+20 39.8	1.587	2.567	2.5	20.8
2 1	8 29.59	+21 40.8	1.581	2.561	2.8	20.8
2 11	8 18.99	+22 34.1	1.603	2.554	7.5	21.1
2 21	8 10.09	+23 15.6	1.653	2.546	11.9	21.3
3 2	8 3.84	+23 43.8	1.725	2.537	15.6	21.6

231282 2006 BF_{44} 1 27.1 57°.40 1°.4/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.95	+21 11.3	1.848	2.667	14.1	20.7
1 2	8 56.79	+21 30.8	1.779	2.676	10.6	20.5
1 12	8 49.22	+21 55.2	1.734	2.686	6.6	20.2
1 22	8 40.02	+22 19.8	1.716	2.696	2.4	20.0
2 1	8 30.27	+22 40.3	1.727	2.707	2.9	20.0
2 11	8 21.19	+22 53.0	1.767	2.717	7.0	20.3
2 21	8 13.81	+22 56.4	1.833	2.727	10.8	20.6
3 2	8 8.86	+22 50.7	1.922	2.738	14.1	20.8

354536 2004 RA_{218} 1 27.2 99°.26 2°.2/28.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.83	+12 46.7	1.698	2.491	16.2	21.3
1 2	9 1.11	+12 32.3	1.637	2.516	12.5	21.1
1 12	8 51.84	+12 29.4	1.599	2.540	8.2	20.9
1 22	8 40.91	+12 35.8	1.588	2.563	3.8	20.7
2 1	8 29.53	+12 48.5	1.606	2.586	2.9	20.7
2 11	8 19.03	+13 3.7	1.654	2.608	6.9	21.0
2 21	8 10.48	+13 18.6	1.728	2.630	10.9	21.3
3 2	8 4.59	+13 30.9	1.827	2.651	14.4	21.5

454518 2014 OA_{218} 1 27.2 222°.14 3°.5/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.98	+23 57.9	1.703	2.526	14.9	21.8
1 2	8 58.88	+25 3.3	1.622	2.521	11.3	21.6
1 12	8 50.89	+26 14.9	1.564	2.515	7.3	21.3
1 22	8 40.73	+27 25.1	1.534	2.509	3.8	21.1
2 1	8 29.58	+28 25.4	1.532	2.503	4.9	21.1
2 11	8 18.96	+29 9.7	1.558	2.496	8.9	21.4
2 21	8 10.19	+29 35.4	1.610	2.489	13.0	21.6
3 2	8 4.28	+29 43.2	1.683	2.482	16.5	21.8

453353 2008 YJ_{164} 1 27.2 358°.28 1°.2/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.56	+15 29.1	1.249	2.083	18.6	20.9
1 2	8 56.79	+15 25.3	1.178	2.081	14.3	20.7
1 12	8 49.77	+15 34.7	1.126	2.079	9.2	20.4
1 22	8 40.36	+15 54.0	1.098	2.078	3.6	20.0
2 1	8 29.97	+16 18.3	1.095	2.078	2.9	20.0
2 11	8 20.36	+16 42.2	1.118	2.078	8.5	20.3
2 21	8 12.99	+17 1.2	1.164	2.080	13.7	20.6
3 2	8 8.88	+17 13.0	1.230	2.082	18.2	20.9

210400 2007 VE_{245} 1 27.2 342°.83 3°.1/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 58.72	+25 11.0	2.089	2.912	12.5	20.5
1 2	8 54.36	+26 1.2	2.009	2.908	9.5	20.3
1 12	8 47.76	+26 54.4	1.955	2.905	6.1	20.0
1 22	8 39.57	+27 45.0	1.927	2.902	3.3	19.9
2 1	8 30.72	+28 27.4	1.929	2.899	4.2	19.9
2 11	8 22.31	+28 57.3	1.959	2.896	7.4	20.1
2 21	8 15.35	+29 13.0	2.015	2.894	10.8	20.3
3 2	8 10.59	+29 14.8	2.095	2.892	13.7	20.5

11674 1998 BN_{25} 1 27.2 173°.90 0°.2/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.23	+17 22.8	1.410	2.232	17.5	17.6
1 2	9 0.07	+17 42.3	1.335	2.233	13.3	17.3
1 12	8 51.71	+18 13.1	1.282	2.233	8.4	17.1
1 22	8 41.01	+18 50.2	1.253	2.234	2.9	16.7
2 1	8 29.36	+19 27.3	1.252	2.234	2.8	16.7
2 11	8 18.45	+19 58.4	1.279	2.234	8.3	17.1
2 21	8 9.72	+20 20.2	1.330	2.234	13.3	17.3
3 2	8 4.17	+20 31.2	1.402	2.234	17.5	17.6

217787 2000 SC_{262} 1 27.2 72°.67 1°.3/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.28	+20 1.4	1.810	2.625	14.5	20.7
1 2	8 57.70	+20 36.3	1.754	2.649	10.8	20.5
1 12	8 49.73	+21 17.4	1.723	2.674	6.7	20.3
1 22	8 40.20	+21 59.3	1.718	2.698	2.4	20.1
2 1	8 30.24	+22 36.6	1.743	2.722	2.8	20.2
2 11	8 21.06	+23 5.3	1.797	2.746	6.9	20.5
2 21	8 13.66	+23 23.3	1.877	2.770	10.7	20.8
3 2	8 8.72	+23 30.7	1.981	2.793	13.8	21.0

327352 2005 UQ_{227} 1 27.2 99°.74 1°.3/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.95	+20 16.6	1.928	2.742	13.8	21.3
1 2	8 56.74	+20 51.0	1.858	2.752	10.3	21.1
1 12	8 49.20	+21 31.6	1.811	2.762	6.4	20.9
1 22	8 40.06	+22 13.5	1.792	2.772	2.4	20.6
2 1	8 30.33	+22 51.5	1.803	2.782	2.8	20.7
2 11	8 21.21	+23 21.3	1.842	2.791	6.8	21.0
2 21	8 13.70	+23 40.7	1.909	2.801	10.6	21.2
3 2	8 8.54	+23 49.3	1.998	2.810	13.8	21.4

3571 Milanštefánik 1 27.2 226°.41 2°.0/29.0 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.37	+ 9 12.7	3.518	4.286	9.1	17.5
1 2	8 50.14	+ 9 10.6	3.419	4.281	7.1	17.4
1 12	8 44.70	+ 9 16.1	3.346	4.275	4.9	17.2
1 22	8 38.44	+ 9 28.5	3.302	4.269	2.8	17.0
2 1	8 31.84	+ 9 46.4	3.288	4.263	2.2	17.0
2 11	8 25.44	+10 8.0	3.305	4.257	4.0	17.1
2 21	8 19.75	+10 31.2	3.352	4.250	6.3	17.3
3 2	8 15.20	+10 54.2	3.426	4.244	8.4	17.4

214496 2005 VW_{52} 1 27.2 98°.05 2°.1/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.90	+10 39.1	2.011	2.801	14.2	20.9
1 2	8 55.72	+10 52.8	1.942	2.818	11.0	20.7
1 12	8 48.45	+11 19.4	1.896	2.834	7.3	20.5
1 22	8 39.78	+11 56.3	1.877	2.851	3.5	20.3
2 1	8 30.61	+12 39.9	1.888	2.867	2.6	20.2
2 11	8 22.02	+13 25.5	1.928	2.883	6.0	20.5
2 21	8 14.87	+14 9.1	1.996	2.899	9.6	20.7
3 2	8 9.84	+14 47.7	2.088	2.914	12.8	21.0

94806 2001 XS_{163} 1 27.2 202°.54 2°.2/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.47	+11 19.6	1.907	2.697	14.9	20.5
1 2	8 58.00	+11 26.3	1.816	2.693	11.6	20.3
1 12	8 50.11	+11 46.1	1.749	2.688	7.7	20.0
1 22	8 40.43	+12 17.0	1.709	2.683	3.7	19.8
2 1	8 29.95	+12 55.2	1.698	2.677	2.8	19.7
2 11	8 19.90	+13 36.4	1.716	2.671	6.7	19.9
2 21	8 11.36	+14 16.2	1.762	2.664	10.7	20.1
3 2	8 5.17	+14 51.4	1.832	2.656	14.3	20.3

268995 2007 ER_{101} 1 27.2 205°.06 1°.7/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.05	+10 28.8	2.738	3.513	11.2	21.6
1 2	8 54.01	+10 50.8	2.638	3.507	8.7	21.4
1 12	8 47.30	+11 23.2	2.564	3.500	5.8	21.2
1 22	8 39.39	+12 4.2	2.519	3.493	2.8	21.0
2 1	8 30.95	+12 50.9	2.505	3.485	2.1	20.9
2 11	8 22.75	+13 39.8	2.523	3.476	4.9	21.1
2 21	8 15.52	+14 27.5	2.570	3.467	8.0	21.3
3 2	8 9.86	+15 11.3	2.643	3.457	10.7	21.5

364054 2005 WM_{147} 1 27.2 141°.16 5°.1/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.08	+ 0 31.3	2.458	3.193	13.4	21.9
1 2	8 54.78	+ 0 18.8	2.377	3.206	11.0	21.7
1 12	8 47.75	+ 0 22.6	2.319	3.218	8.4	21.5
1 22	8 39.53	+ 0 42.8	2.288	3.229	6.0	21.4
2 1	8 30.85	+ 1 17.9	2.285	3.240	5.1	21.4
2 11	8 22.57	+ 2 4.6	2.313	3.250	6.5	21.5
2 21	8 15.43	+ 2 58.8	2.368	3.259	8.9	21.6
3 2	8 10.02	+ 3 55.7	2.450	3.268	11.3	21.8

242387 2004 EY_{56} 1 27.2 207°.79 1°.9/28.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 56.74	+ 9 28.3	2.900	3.673	10.7	21.3
1 2	8 52.18	+ 9 47.1	2.803	3.668	8.3	21.1
1 12	8 46.11	+10 16.3	2.730	3.663	5.6	21.0
1 22	8 38.97	+10 54.1	2.686	3.657	2.9	20.8
2 1	8 31.36	+11 38.2	2.673	3.651	2.2	20.7
2 11	8 23.99	+12 25.3	2.691	3.645	4.7	20.9
2 21	8 17.50	+13 12.3	2.739	3.638	7.5	21.0
3 2	8 12.45	+13 56.4	2.813	3.631	10.1	21.2

4078 Polakis 1 27.2 170°.41 3°.2/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.18	+26 30.9	2.513	3.326	11.0	16.5
1 2	8 55.11	+27 30.9	2.435	3.328	8.3	16.3
1 12	8 48.09	+28 32.5	2.383	3.329	5.4	16.1
1 22	8 39.68	+29 30.5	2.360	3.331	3.3	16.0
2 1	8 30.71	+30 19.6	2.368	3.332	4.1	16.1
2 11	8 22.11	+30 56.2	2.405	3.333	6.8	16.2
2 21	8 14.76	+31 18.9	2.470	3.334	9.6	16.4
3 2	8 9.32	+31 27.9	2.559	3.334	12.1	16.6

319022 2005 VA_{5} 1 27.2 222°.12 4°.6/30.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.76	+ 3 19.1	2.316	3.070	13.6	20.9
1 2	8 54.83	+ 3 7.2	2.216	3.061	11.1	20.7
1 12	8 47.95	+ 3 10.6	2.139	3.051	8.3	20.5
1 22	8 39.66	+ 3 29.5	2.089	3.042	5.6	20.4
2 1	8 30.71	+ 4 2.8	2.068	3.031	4.7	20.3
2 11	8 22.03	+ 4 47.1	2.076	3.020	6.5	20.4
2 21	8 14.47	+ 5 38.2	2.112	3.009	9.5	20.5
3 2	8 8.75	+ 6 31.6	2.174	2.997	12.4	20.7

198958 2005 UY_{379} 1 27.2 201°.35 0°.3/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.42	+15 38.5	1.741	2.547	15.4	21.3
1 2	8 58.99	+16 5.7	1.655	2.544	11.8	21.0
1 12	8 50.86	+16 44.6	1.592	2.540	7.5	20.8
1 22	8 40.73	+17 31.1	1.556	2.536	2.7	20.5
2 1	8 29.71	+18 19.5	1.549	2.531	2.4	20.4
2 11	8 19.18	+19 4.3	1.571	2.525	7.2	20.7
2 21	8 10.37	+19 41.3	1.620	2.519	11.7	21.0
3 2	8 4.20	+20 8.6	1.692	2.512	15.5	21.2

245720 2006 DO_{6} 1 27.2 350°.34 0°.2/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.40	+15 58.5	1.201	2.042	18.8	20.3
1 2	8 55.37	+16 29.4	1.129	2.036	14.3	20.0
1 12	8 49.03	+17 16.6	1.077	2.032	9.1	19.7
1 22	8 40.17	+18 14.8	1.047	2.028	3.2	19.4
2 1	8 30.22	+19 15.9	1.043	2.025	3.0	19.3
2 11	8 20.97	+20 11.5	1.064	2.023	9.0	19.7
2 21	8 13.97	+20 55.5	1.107	2.022	14.4	20.0
3 2	8 10.32	+21 25.0	1.170	2.022	19.0	20.2

310414 1999 TS_{150} 1 27.2 97°.37 0°.3/27.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.00	+18 1.8	1.777	2.584	15.1	21.2
1 2	8 59.76	+18 20.5	1.717	2.607	11.3	21.1
1 12	8 51.04	+18 46.8	1.680	2.629	7.0	20.8
1 22	8 40.69	+19 16.1	1.671	2.651	2.4	20.6
2 1	8 29.87	+19 43.8	1.691	2.672	2.4	20.6
2 11	8 19.87	+20 5.9	1.740	2.693	6.8	21.0
2 21	8 11.73	+20 20.4	1.817	2.713	10.8	21.2
3 2	8 6.15	+20 26.6	1.917	2.733	14.1	21.5

144495 2004 EP_{66} 1 27.2 347°.44 1°.0/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.62	+15 45.8	1.167	2.004	19.4	19.4
1 2	8 57.87	+15 45.0	1.095	2.000	15.0	19.1
1 12	8 50.62	+15 58.1	1.042	1.996	9.6	18.8
1 22	8 40.74	+16 21.7	1.012	1.992	3.6	18.5
2 1	8 29.74	+16 50.0	1.007	1.990	3.0	18.4
2 11	8 19.52	+17 16.8	1.027	1.988	9.0	18.8
2 21	8 11.72	+17 37.6	1.070	1.987	14.6	19.1
3 2	8 7.44	+17 49.7	1.132	1.986	19.3	19.3

463709 2014 QW_{167} 1 27.2 73°.55 0°.5/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.37	+12 50.2	1.754	2.559	15.3	21.1
1 2	8 55.67	+13 50.1	1.690	2.578	11.6	20.9
1 12	8 48.59	+15 4.9	1.650	2.597	7.3	20.7
1 22	8 39.89	+16 29.0	1.636	2.615	2.7	20.4
2 1	8 30.60	+17 55.2	1.652	2.634	2.2	20.4
2 11	8 21.93	+19 16.3	1.697	2.653	6.7	20.8
2 21	8 14.92	+20 27.0	1.770	2.671	10.7	21.0
3 2	8 10.29	+21 24.3	1.866	2.689	14.1	21.3

473440 2015 XK 1 27.2 82°.79 0°.4/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.79	+14 23.3	1.521	2.333	16.9	21.2
1 2	8 58.49	+15 7.5	1.463	2.355	12.8	21.0
1 12	8 50.44	+16 5.8	1.427	2.376	8.0	20.8
1 22	8 40.53	+17 12.3	1.418	2.398	2.9	20.6
2 1	8 30.03	+18 19.9	1.437	2.419	2.4	20.6
2 11	8 20.36	+19 21.5	1.484	2.439	7.4	20.9
2 21	8 12.71	+20 12.6	1.557	2.460	11.8	21.2
3 2	8 7.85	+20 50.8	1.653	2.480	15.5	21.5

432076 2008 YF_{123} 1 27.2 15°.08 1°.8/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 58.12	+12 34.2	1.979	2.781	14.0	21.2
1 2	8 53.80	+12 34.5	1.899	2.783	10.8	21.0
1 12	8 47.37	+12 45.8	1.843	2.786	7.1	20.8
1 22	8 39.47	+13 6.2	1.813	2.789	3.2	20.5
2 1	8 30.98	+13 32.7	1.812	2.792	2.4	20.5
2 11	8 22.97	+14 1.5	1.839	2.796	6.1	20.7
2 21	8 16.35	+14 29.1	1.893	2.800	9.8	21.0
3 2	8 11.84	+14 52.9	1.972	2.804	13.1	21.2

76293 2000 EV_{127} 1 27.2 79°.65 8°.3/23.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.76	+38 20.1	1.694	2.509	15.4	18.3
1 2	9 3.99	+39 29.7	1.647	2.527	12.4	18.1
1 12	8 53.95	+40 28.8	1.623	2.545	9.6	18.0
1 22	8 41.74	+41 7.6	1.625	2.563	8.3	18.0
2 1	8 28.97	+41 19.3	1.653	2.582	9.1	18.1
2 11	8 17.40	+41 2.5	1.707	2.599	11.5	18.2
2 21	8 8.39	+40 20.9	1.785	2.617	14.2	18.5
3 2	8 2.73	+39 20.7	1.883	2.635	16.7	18.7

231348 2006 FR_{15} 1 27.2 206°.61 5°.4/23.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.03	+33 1.2	2.264	3.078	12.0	20.7
1 2	8 57.60	+34 3.3	2.189	3.077	9.4	20.6
1 12	8 49.81	+35 2.3	2.140	3.074	6.8	20.4
1 22	8 40.34	+35 51.6	2.118	3.072	5.4	20.3
2 1	8 30.18	+36 25.3	2.125	3.070	6.2	20.4
2 11	8 20.54	+36 40.1	2.160	3.067	8.6	20.5
2 21	8 12.45	+36 36.1	2.221	3.065	11.3	20.7
3 2	8 6.70	+36 15.5	2.304	3.062	13.8	20.8

193404 2000 WS_{29} 1 27.2 176°.99 15°.3/ 5.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.17	−17 40.5	1.578	2.231	22.6	20.3
1 2	8 59.85	−19 3.9	1.502	2.235	20.6	20.1
1 12	8 51.57	−19 52.8	1.440	2.237	18.5	20.0
1 22	8 41.04	−19 59.2	1.397	2.238	16.6	19.9
2 1	8 29.47	−19 18.6	1.373	2.239	15.4	19.8
2 11	8 18.38	−17 53.2	1.372	2.238	15.5	19.8
2 21	8 9.16	−15 51.7	1.393	2.236	16.8	19.9
3 2	8 2.83	−13 27.2	1.435	2.234	18.9	20.0

113999 2002 UO_{33} 1 27.2 308°.21 4°.8/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.69	+ 4 1.5	2.219	2.983	13.8	19.4
1 2	8 53.31	+ 3 37.6	2.128	2.979	11.2	19.2
1 12	8 47.02	+ 3 28.5	2.060	2.975	8.4	19.0
1 22	8 39.36	+ 3 34.5	2.017	2.970	5.7	18.8
2 1	8 31.11	+ 3 54.7	2.003	2.966	4.8	18.8
2 11	8 23.20	+ 4 26.3	2.017	2.963	6.6	18.9
2 21	8 16.46	+ 5 5.2	2.059	2.959	9.5	19.1
3 2	8 11.56	+ 5 47.4	2.125	2.955	12.4	19.2

247238 2001 QW_{255} 1 27.2 31°.13 3°.9/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.50	+26 5.2	1.318	2.159	17.4	18.9
1 2	8 58.79	+26 37.3	1.266	2.173	13.1	18.7
1 12	8 50.83	+27 10.7	1.235	2.188	8.4	18.4
1 22	8 40.70	+27 37.7	1.228	2.204	4.4	18.3
2 1	8 29.96	+27 51.3	1.248	2.221	5.3	18.3
2 11	8 20.33	+27 48.4	1.294	2.239	9.5	18.6
2 21	8 13.17	+27 29.3	1.363	2.258	13.8	18.9
3 2	8 9.26	+26 56.8	1.452	2.277	17.4	19.2

143393 2003 BX_{28} 1 27.2 343°.20 0°.4/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.74	+14 1.1	1.518	2.341	16.5	19.3
1 2	8 54.28	+14 47.5	1.438	2.335	12.6	19.1
1 12	8 48.08	+15 50.8	1.379	2.330	8.0	18.8
1 22	8 39.83	+17 5.9	1.346	2.326	2.9	18.5
2 1	8 30.65	+18 25.5	1.340	2.322	2.5	18.4
2 11	8 21.96	+19 41.4	1.361	2.319	7.7	18.7
2 21	8 15.04	+20 47.3	1.407	2.316	12.4	19.0
3 2	8 10.85	+21 39.2	1.476	2.314	16.5	19.3

150309 1999 US_{2} 1 27.2 162°.10 0°.7/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.57	+15 33.0	1.662	2.467	16.1	21.4
1 2	9 0.59	+15 43.1	1.585	2.473	12.3	21.2
1 12	8 51.82	+16 3.9	1.531	2.478	7.8	20.9
1 22	8 41.07	+16 31.7	1.503	2.482	2.9	20.7
2 1	8 29.54	+17 1.7	1.504	2.485	2.4	20.6
2 11	8 18.68	+17 29.4	1.533	2.488	7.3	20.9
2 21	8 9.71	+17 51.4	1.590	2.491	11.8	21.2
3 2	8 3.52	+18 6.0	1.669	2.492	15.6	21.4

503065 2015 FU_{208} 1 27.2 303°.63 1°.7/28.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.86	+12 10.5	2.298	3.090	12.6	21.5
1 2	8 53.39	+12 15.9	2.209	3.088	9.7	21.3
1 12	8 47.04	+12 31.4	2.145	3.086	6.4	21.1
1 22	8 39.36	+12 55.3	2.108	3.083	3.0	20.9
2 1	8 31.13	+13 24.7	2.101	3.081	2.2	20.8
2 11	8 23.26	+13 56.3	2.123	3.079	5.5	21.0
2 21	8 16.57	+14 26.9	2.174	3.077	8.9	21.2
3 2	8 11.71	+14 54.0	2.249	3.075	12.0	21.4

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
218248 2002 XF_{110}			1 27.2	25°.94	3°.2/25.4	18
	h m	° ′			°	m
12 23	8 59.81	+25 10.7	1.790	2.619	14.1	20.1
1 2	8 55.38	+25 53.0	1.726	2.628	10.6	19.9
1 12	8 48.47	+26 37.6	1.686	2.637	6.8	19.6
1 22	8 39.87	+27 18.5	1.672	2.648	3.5	19.5
2 1	8 30.69	+27 49.9	1.687	2.659	4.4	19.5
2 11	8 22.20	+28 7.8	1.729	2.670	7.9	19.8
2 21	8 15.45	+28 11.3	1.796	2.682	11.5	20.0
3 2	8 11.19	+28 1.4	1.886	2.695	14.6	20.3
327310 2005 UR_{14}			1 27.2	221°.21	1°.9/26.0	18
12 23	9 1.71	+21 48.9	1.934	2.751	13.6	21.3
1 2	8 56.74	+22 27.4	1.853	2.749	10.3	21.1
1 12	8 49.34	+23 11.6	1.796	2.747	6.4	20.9
1 22	8 40.21	+23 56.1	1.766	2.745	2.6	20.6
2 1	8 30.34	+24 35.3	1.765	2.742	3.3	20.6
2 11	8 20.98	+25 4.8	1.794	2.740	7.2	20.9
2 21	8 13.19	+25 22.4	1.849	2.737	11.1	21.1
3 2	8 7.79	+25 27.7	1.927	2.735	14.4	21.3
50240 Cortina			1 27.2	329°.83	7°.5/22.5	18
12 23	9 0.78	+30 57.9	1.448	2.289	16.1	17.9
1 2	8 57.23	+32 43.8	1.375	2.279	12.6	17.6
1 12	8 50.28	+34 32.0	1.325	2.268	9.2	17.4
1 22	8 40.68	+36 10.2	1.300	2.259	7.5	17.3
2 1	8 29.83	+37 26.5	1.301	2.250	8.9	17.3
2 11	8 19.58	+38 13.2	1.327	2.241	12.4	17.5
2 21	8 11.57	+38 29.2	1.375	2.233	16.1	17.7
3 2	8 6.99	+38 17.7	1.442	2.226	19.5	17.9
365821 2011 SS_{180}			1 27.2	46°.76	1°.6/26.5	18
12 23	9 3.58	+20 29.1	1.389	2.220	17.2	21.3
1 2	8 58.76	+20 55.7	1.325	2.229	13.0	21.0
1 12	8 50.84	+21 30.2	1.284	2.238	8.1	20.8
1 22	8 40.75	+22 6.4	1.266	2.247	2.9	20.5
2 1	8 29.89	+22 37.6	1.276	2.256	3.4	20.5
2 11	8 19.92	+22 58.7	1.313	2.266	8.5	20.9
2 21	8 12.19	+23 7.5	1.374	2.276	13.1	21.1
3 2	8 7.58	+23 4.2	1.456	2.286	17.0	21.4
4010 Nikol′skij			1 27.2	187°.82	0°.6/26.8	18 R
12 23	9 3.89	+19 23.7	2.065	2.871	13.3	18.0
1 2	8 58.16	+19 38.9	1.981	2.871	10.1	17.8
1 12	8 50.13	+19 59.8	1.921	2.870	6.3	17.6
1 22	8 40.46	+20 22.8	1.888	2.868	2.2	17.3
2 1	8 30.14	+20 43.8	1.886	2.867	2.3	17.3
2 11	8 20.32	+20 59.3	1.914	2.865	6.4	17.6
2 21	8 12.00	+21 7.4	1.969	2.862	10.3	17.8
3 2	8 5.95	+21 7.8	2.048	2.859	13.5	18.0
344840 2004 FS_{147}			1 27.2	295°.91	7°.9/20.9	17
12 23	9 3.81	+40 0.5	2.216	3.024	12.4	20.7
1 2	8 58.72	+41 22.8	2.130	3.002	10.3	20.5
1 12	8 50.83	+42 38.9	2.069	2.981	8.5	20.3
1 22	8 40.80	+43 40.0	2.035	2.959	7.9	20.3
2 1	8 29.75	+44 18.9	2.028	2.937	8.9	20.3
2 11	8 19.10	+44 31.6	2.046	2.915	11.0	20.4
2 21	8 10.16	+44 18.6	2.089	2.894	13.4	20.5
3 2	8 3.93	+43 43.4	2.151	2.872	15.7	20.6
212072 2005 EL_{58}			1 27.2	204°.05	2°.4/28.5	18
12 23	9 1.44	+10 46.2	1.812	2.607	15.3	20.6
1 2	8 56.58	+10 53.4	1.727	2.606	11.9	20.4
1 12	8 49.29	+11 14.9	1.664	2.603	8.0	20.1
1 22	8 40.22	+11 48.6	1.627	2.601	3.9	19.9
2 1	8 30.39	+12 30.8	1.619	2.598	2.9	19.8
2 11	8 21.02	+13 16.6	1.639	2.596	6.8	20.1
2 21	8 13.20	+14 1.3	1.687	2.592	10.9	20.3
3 2	8 7.75	+14 41.1	1.758	2.589	14.5	20.5
76758 2000 KZ_{6}			1 27.2	247°.69	3°.3/24.6	18
12 23	8 59.44	+25 42.3	2.265	3.083	11.9	19.2
1 2	8 54.81	+26 47.2	2.186	3.082	9.0	19.0
1 12	8 48.05	+27 55.1	2.132	3.080	5.8	18.9
1 22	8 39.77	+29 0.1	2.107	3.079	3.5	18.7
2 1	8 30.83	+29 56.1	2.112	3.078	4.4	18.8
2 11	8 22.28	+30 38.9	2.146	3.076	7.3	18.9
2 21	8 15.07	+31 6.4	2.206	3.075	10.4	19.1
3 2	8 9.93	+31 18.9	2.290	3.074	13.1	19.3
415267 2013 BQ_{45}			1 27.2	319°.73	10°.2/23.8	17
12 23	9 14.56	+36 45.4	1.223	2.054	19.1	21.3
1 2	9 9.88	+37 33.3	1.102	1.995	15.9	20.9
1 12	8 59.83	+38 16.3	1.000	1.935	12.5	20.5
1 22	8 44.61	+38 38.6	0.920	1.875	10.3	20.1
2 1	8 25.80	+38 21.7	0.863	1.815	11.7	20.0
2 11	8 6.45	+37 13.3	0.830	1.754	16.4	20.0
2 21	7 49.94	+35 14.4	0.817	1.694	22.4	20.1
3 2	7 38.80	+32 37.5	0.821	1.635	28.3	20.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
492893 2014 QV_{414}			1 27.2	192°.61	1°.0/27.8	18
	h m	° ′			°	m
12 23	9 1.97	+13 4.4	1.900	2.699	14.6	22.1
1 2	8 56.92	+13 37.3	1.814	2.697	11.2	21.8
1 12	8 49.48	+14 23.6	1.751	2.696	7.2	21.6
1 22	8 40.30	+15 19.7	1.715	2.694	2.9	21.3
2 1	8 30.34	+16 20.4	1.709	2.691	2.2	21.3
2 11	8 20.80	+17 20.0	1.733	2.688	6.6	21.5
2 21	8 12.77	+18 13.7	1.783	2.684	10.7	21.8
3 2	8 7.06	+18 58.3	1.858	2.680	14.3	22.0
293653 2007 PL_{11}			1 27.2	161°.89	1°.3/28.0	18
12 23	9 2.88	+12 15.8	1.919	2.713	14.6	21.8
1 2	8 57.51	+12 45.1	1.838	2.718	11.3	21.6
1 12	8 49.78	+13 27.8	1.781	2.723	7.3	21.4
1 22	8 40.38	+14 20.4	1.751	2.728	3.1	21.1
2 1	8 30.29	+15 18.2	1.751	2.732	2.3	21.1
2 11	8 20.69	+16 15.5	1.780	2.735	6.4	21.3
2 21	8 12.62	+17 7.7	1.837	2.738	10.4	21.6
3 2	8 6.85	+17 51.8	1.919	2.740	13.9	21.8
118263 1998 FE_{90}			1 27.2	3°.08	8°.8/23.2	18
12 23	9 3.29	+36 7.5	1.351	2.192	17.1	18.6
1 2	8 59.20	+37 15.6	1.292	2.190	13.7	18.3
1 12	8 51.44	+38 15.9	1.255	2.190	10.5	18.2
1 22	8 41.04	+38 56.9	1.240	2.191	8.8	18.1
2 1	8 29.72	+39 9.8	1.250	2.193	9.9	18.1
2 11	8 19.50	+38 51.3	1.284	2.197	12.8	18.3
2 21	8 11.96	+38 4.6	1.340	2.201	16.2	18.5
3 2	8 8.08	+36 56.3	1.414	2.207	19.4	18.8
330990 2009 UY_{24}			1 27.2	163°.67	6°.4/22.7	18
12 23	9 5.83	+36 6.7	2.227	3.035	12.4	21.0
1 2	8 59.82	+37 17.2	2.159	3.039	9.8	20.8
1 12	8 51.26	+38 22.1	2.117	3.042	7.5	20.7
1 22	8 40.90	+39 13.9	2.102	3.045	6.4	20.6
2 1	8 29.85	+39 46.4	2.116	3.047	7.3	20.7
2 11	8 19.42	+39 56.7	2.158	3.050	9.5	20.8
2 21	8 10.72	+39 45.7	2.225	3.051	12.0	21.0
3 2	8 4.56	+39 16.5	2.313	3.053	14.3	21.2
228019 2008 FC_{15}			1 27.2	154°.31	5°.7/22.7	18
12 23	9 6.18	+35 59.5	2.592	3.393	11.1	21.4
1 2	8 59.72	+37 11.4	2.528	3.403	8.8	21.3
1 12	8 51.04	+38 18.0	2.489	3.412	6.7	21.1
1 22	8 40.80	+39 12.8	2.480	3.420	5.7	21.1
2 1	8 29.97	+39 50.4	2.500	3.428	6.5	21.2
2 11	8 19.66	+40 8.3	2.549	3.435	8.4	21.3
2 21	8 10.86	+40 7.0	2.624	3.441	10.6	21.4
3 2	8 4.28	+39 49.0	2.721	3.446	12.7	21.6
13211 Stucky			1 27.2	170°.51	0°.9/26.5	18
12 23	9 0.08	+19 15.5	2.505	3.307	11.3	19.1
1 2	8 54.96	+19 52.7	2.422	3.310	8.5	18.9
1 12	8 48.00	+20 35.7	2.364	3.313	5.3	18.7
1 22	8 39.74	+21 20.8	2.335	3.315	1.9	18.5
2 1	8 30.96	+22 3.7	2.337	3.317	2.2	18.5
2 11	8 22.54	+22 41.0	2.370	3.318	5.6	18.7
2 21	8 15.29	+23 10.1	2.431	3.319	8.8	18.9
3 2	8 9.85	+23 30.1	2.517	3.319	11.6	19.1
338057 2002 NN_{78}			1 27.2	118°.80	2°.9/25.6	18
12 23	9 8.67	+22 38.6	1.656	2.471	15.6	21.2
1 2	9 2.16	+23 41.2	1.597	2.492	11.7	21.0
1 12	8 52.78	+24 49.1	1.562	2.512	7.4	20.8
1 22	8 41.43	+25 54.3	1.554	2.531	3.4	20.6
2 1	8 29.45	+26 49.2	1.576	2.550	4.3	20.7
2 11	8 18.33	+27 28.5	1.626	2.567	8.3	21.0
2 21	8 9.33	+27 50.5	1.703	2.584	12.3	21.3
3 2	8 3.26	+27 56.7	1.802	2.599	15.6	21.5
79721 1998 SE_{112}			1 27.2	169°.54	0°.1/27.1	18 R
12 23	9 5.81	+16 31.1	2.025	2.822	13.9	20.6
1 2	8 59.63	+17 3.7	1.944	2.828	10.5	20.4
1 12	8 51.09	+17 45.4	1.886	2.833	6.6	20.1
1 22	8 40.85	+18 32.2	1.857	2.837	2.3	19.9
2 1	8 29.93	+19 18.8	1.858	2.840	2.2	19.9
2 11	8 19.51	+20 0.6	1.890	2.842	6.5	20.1
2 21	8 10.64	+20 34.4	1.951	2.843	10.4	20.4
3 2	8 4.11	+20 58.8	2.035	2.843	13.7	20.6
367616 2009 UU			1 27.2	134°.93	0°.2/27.1	18
12 23	9 3.08	+18 16.6	2.307	3.106	12.3	21.5
1 2	8 57.21	+18 29.4	2.232	3.118	9.3	21.3
1 12	8 49.38	+18 47.8	2.182	3.129	5.8	21.1
1 22	8 40.21	+19 8.6	2.160	3.140	2.0	20.9
2 1	8 30.57	+19 28.5	2.169	3.151	1.9	20.9
2 11	8 21.46	+19 44.5	2.209	3.161	5.7	21.2
2 21	8 13.71	+19 54.9	2.277	3.170	9.1	21.4
3 2	8 7.96	+19 59.0	2.370	3.179	12.0	21.6

425173 2009 UQ_{10} 1 27.2 71°.16 1°.2/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 59.96	+13 8.0	1.862	2.666	14.6	21.6
1 2	8 55.31	+13 28.7	1.790	2.676	11.2	21.4
1 12	8 48.39	+14 1.7	1.741	2.686	7.2	21.2
1 22	8 39.90	+14 43.8	1.718	2.696	3.0	20.9
2 1	8 30.84	+15 30.3	1.725	2.706	2.2	20.9
2 11	8 22.33	+16 16.4	1.760	2.717	6.3	21.2
2 21	8 15.36	+16 57.9	1.822	2.727	10.3	21.4
3 2	8 10.64	+17 32.0	1.908	2.737	13.6	21.7

55619 2002 TM_{108} 1 27.2 138°.82 1°.6/26.3 18

12 23	9 7.15	+23 4.7	2.344	3.143	12.1	19.5
1 2	9 0.22	+23 18.8	2.272	3.158	9.1	19.3
1 12	8 51.21	+23 34.5	2.225	3.172	5.7	19.1
1 22	8 40.84	+23 48.1	2.207	3.186	2.3	18.9
2 1	8 30.03	+23 56.0	2.221	3.199	2.7	18.9
2 11	8 19.84	+23 56.1	2.266	3.211	6.1	19.2
2 21	8 11.16	+23 47.7	2.340	3.222	9.3	19.4
3 2	8 4.63	+23 31.7	2.439	3.232	12.1	19.6

187363 2005 UK_{262} 1 27.2 167°.70 1°.5/28.2 18

12 23	9 0.93	+12 5.6	2.299	3.085	12.7	22.0
1 2	8 55.68	+12 21.6	2.214	3.089	9.8	21.8
1 12	8 48.49	+12 48.3	2.153	3.093	6.4	21.6
1 22	8 39.93	+13 23.3	2.120	3.096	2.9	21.4
2 1	8 30.82	+14 3.2	2.118	3.098	2.1	21.3
2 11	8 22.10	+14 44.2	2.146	3.100	5.6	21.6
2 21	8 14.63	+15 22.9	2.202	3.102	9.0	21.8
3 2	8 9.05	+15 56.7	2.284	3.103	12.0	22.0

365463 2010 OU_{22} 1 27.2 110°.25 0°.1/27.3 18

12 23	9 4.90	+16 47.9	2.137	2.932	13.3	22.3
1 2	8 58.61	+17 7.6	2.073	2.956	10.0	22.1
1 12	8 50.24	+17 34.6	2.034	2.980	6.2	21.9
1 22	8 40.51	+18 5.2	2.023	3.003	2.2	21.7
2 1	8 30.37	+18 35.5	2.043	3.025	1.9	21.7
2 11	8 20.88	+19 1.9	2.094	3.046	5.9	22.0
2 21	8 12.92	+19 22.3	2.173	3.067	9.4	22.2
3 2	8 7.12	+19 35.5	2.277	3.086	12.4	22.5

219333 2000 NP_{29} 1 27.2 192°.24 3°.2/29.6 18

12 23	8 59.33	+ 5 56.1	2.291	3.058	13.4	21.0
1 2	8 54.54	+ 6 17.4	2.199	3.057	10.6	20.8
1 12	8 47.83	+ 6 54.4	2.130	3.055	7.5	20.6
1 22	8 39.73	+ 7 45.7	2.088	3.053	4.4	20.4
2 1	8 31.02	+ 8 48.1	2.076	3.050	3.3	20.3
2 11	8 22.62	+ 9 56.8	2.094	3.047	5.8	20.5
2 21	8 15.38	+11 6.7	2.141	3.043	9.1	20.7
3 2	8 9.97	+12 13.4	2.214	3.039	12.2	20.9

453877 2011 UT_{132} 1 27.2 36°.56 1°.3/27.8 18

12 23	9 1.85	+14 43.0	1.249	2.079	18.9	20.9
1 2	8 57.57	+14 45.6	1.192	2.092	14.4	20.7
1 12	8 50.15	+15 2.5	1.155	2.107	9.2	20.4
1 22	8 40.59	+15 29.7	1.142	2.122	3.6	20.2
2 1	8 30.32	+16 1.8	1.155	2.137	2.8	20.2
2 11	8 21.04	+16 32.8	1.194	2.154	8.1	20.5
2 21	8 14.05	+16 58.4	1.256	2.171	13.1	20.8
3 2	8 10.21	+17 16.0	1.340	2.188	17.2	21.1

114845 2003 PN_{2} 1 27.2 89°.75 0°.2/27.3 18

12 23	9 4.29	+15 43.5	1.625	2.436	16.1	20.2
1 2	8 58.78	+16 16.4	1.565	2.456	12.2	20.0
1 12	8 50.63	+17 0.7	1.527	2.476	7.6	19.7
1 22	8 40.71	+17 51.3	1.516	2.496	2.7	19.5
2 1	8 30.21	+18 42.2	1.533	2.515	2.4	19.5
2 11	8 20.51	+19 27.7	1.579	2.534	7.1	19.8
2 21	8 12.73	+20 4.2	1.652	2.553	11.4	20.1
3 2	8 7.63	+20 30.1	1.747	2.571	14.9	20.4

341855 2008 FF_{79} 1 27.2 188°.54 2°.8/28.6 18

12 23	9 4.69	+10 9.1	1.599	2.394	17.0	21.7
1 2	8 59.37	+10 14.9	1.516	2.394	13.3	21.5
1 12	8 51.23	+10 37.4	1.454	2.393	9.0	21.2
1 22	8 41.00	+11 14.4	1.419	2.392	4.5	20.9
2 1	8 29.87	+12 1.6	1.411	2.390	3.3	20.9
2 11	8 19.26	+12 53.2	1.431	2.387	7.5	21.1
2 21	8 10.47	+13 43.7	1.478	2.384	12.1	21.4
3 2	8 4.46	+14 28.5	1.548	2.380	16.1	21.6

355314 2007 RP_{321} 1 27.2 167°.17 2°.9/25.7 18

12 23	9 6.94	+24 58.5	1.870	2.684	14.2	21.4
1 2	9 0.76	+25 32.5	1.795	2.688	10.7	21.2
1 12	8 51.91	+26 8.8	1.743	2.692	6.9	21.0
1 22	8 41.18	+26 41.1	1.719	2.694	3.4	20.8
2 1	8 29.74	+27 4.0	1.724	2.697	4.1	20.8
2 11	8 18.97	+27 13.7	1.758	2.698	7.9	21.0
2 21	8 10.03	+27 9.6	1.819	2.700	11.6	21.3
3 2	8 3.76	+26 53.2	1.902	2.700	14.9	21.5

284315 2006 QH_{113} 1 27.2 194°.14 5°.0/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.30	+35 27.9	2.397	3.197	11.9	19.8
1 2	9 2.04	+35 41.3	2.319	3.197	9.4	19.7
1 12	8 52.44	+35 47.4	2.266	3.196	6.8	19.5
1 22	8 41.30	+35 40.9	2.242	3.196	5.1	19.4
2 1	8 29.70	+35 18.1	2.247	3.196	5.7	19.4
2 11	8 18.84	+34 38.4	2.282	3.195	7.9	19.6
2 21	8 9.72	+33 43.7	2.345	3.195	10.6	19.7
3 2	8 3.02	+32 37.7	2.432	3.195	13.0	19.9

259183 2003 AK_{16} 1 27.2 301°.21 3°.0/29.5 17

12 23	8 55.07	+ 7 2.6	3.042	3.807	10.4	19.9
1 2	8 50.92	+ 6 47.8	2.941	3.797	8.3	19.7
1 12	8 45.37	+ 6 42.5	2.865	3.787	6.0	19.5
1 22	8 38.85	+ 6 46.5	2.816	3.777	3.7	19.4
2 1	8 31.89	+ 6 58.5	2.797	3.767	3.1	19.3
2 11	8 25.16	+ 7 16.9	2.808	3.757	4.8	19.4
2 21	8 19.24	+ 7 39.2	2.848	3.747	7.2	19.6
3 2	8 14.63	+ 8 3.0	2.915	3.737	9.6	19.7

150665 2001 KE_{22} 1 27.2 237°.15 0°.2/27.3 18

12 23	9 4.47	+16 1.1	1.631	2.442	16.0	21.3
1 2	8 59.36	+16 24.6	1.540	2.431	12.3	21.0
1 12	8 51.33	+17 0.3	1.471	2.420	7.8	20.7
1 22	8 41.09	+17 44.1	1.428	2.408	2.8	20.4
2 1	8 29.77	+18 30.1	1.414	2.396	2.5	20.3
2 11	8 18.88	+19 12.5	1.428	2.383	7.7	20.6
2 21	8 9.78	+19 46.9	1.468	2.370	12.5	20.9
3 2	8 3.50	+20 11.2	1.531	2.356	16.6	21.1

417104 2005 UV_{383} 1 27.2 80°.61 6°.3/23.3 18

12 23	9 5.87	+32 37.9	1.835	2.656	14.1	20.8
1 2	9 0.06	+34 2.2	1.786	2.676	10.9	20.7
1 12	8 51.48	+35 22.3	1.761	2.697	7.9	20.5
1 22	8 41.02	+36 29.2	1.764	2.718	6.3	20.5
2 1	8 29.95	+37 15.6	1.794	2.738	7.3	20.6
2 11	8 19.74	+37 38.1	1.852	2.758	9.9	20.8
2 21	8 11.57	+37 37.9	1.934	2.778	12.7	21.0
3 2	8 6.22	+37 18.4	2.038	2.798	15.3	21.2

239293 2007 PX_{16} 1 27.2 144°.36 1°.3/26.5 18

12 23	9 5.04	+19 42.5	1.991	2.797	13.7	21.0
1 2	8 59.07	+20 23.0	1.918	2.809	10.3	20.8
1 12	8 50.74	+21 10.2	1.870	2.819	6.4	20.6
1 22	8 40.76	+21 59.0	1.850	2.830	2.3	20.4
2 1	8 30.17	+22 43.8	1.860	2.839	2.7	20.4
2 11	8 20.16	+23 20.2	1.900	2.848	6.8	20.7
2 21	8 11.78	+23 45.8	1.967	2.856	10.5	20.9
3 2	8 5.76	+24 0.1	2.059	2.863	13.7	21.1

115771 2003 UW_{208} 1 27.2 72°.76 3°.6/24.5 18

12 23	9 0.44	+25 31.0	2.086	2.906	12.7	19.1
1 2	8 55.65	+26 46.8	2.022	2.919	9.5	18.9
1 12	8 48.62	+28 5.5	1.984	2.932	6.2	18.7
1 22	8 40.03	+29 20.1	1.974	2.945	3.7	18.6
2 1	8 30.85	+30 24.0	1.993	2.959	4.7	18.7
2 11	8 22.21	+31 12.5	2.042	2.972	7.7	18.9
2 21	8 15.07	+31 44.0	2.117	2.985	10.8	19.1
3 2	8 10.16	+31 58.9	2.214	2.998	13.5	19.3

205026 1998 DY_{6} 1 27.2 223°.46 1°.8/28.3 17

12 23	8 59.56	+12 36.7	2.413	3.201	12.2	20.5
1 2	8 54.59	+12 26.0	2.323	3.199	9.4	20.3
1 12	8 47.80	+12 23.7	2.258	3.197	6.2	20.1
1 22	8 39.72	+12 28.5	2.221	3.195	3.0	19.9
2 1	8 31.14	+12 38.4	2.214	3.193	2.3	19.8
2 11	8 22.92	+12 51.1	2.237	3.192	5.4	20.0
2 21	8 15.85	+13 4.2	2.289	3.190	8.6	20.2
3 2	8 10.57	+13 15.7	2.365	3.188	11.6	20.4

175185 2005 ED_{202} 1 27.2 262°.83 5°.5/23.4 18

12 23	9 3.65	+27 59.6	1.782	2.607	14.3	19.7
1 2	8 58.92	+29 36.9	1.693	2.590	11.0	19.5
1 12	8 51.19	+31 19.5	1.629	2.573	7.6	19.3
1 22	8 41.10	+32 57.9	1.591	2.556	5.5	19.1
2 1	8 29.76	+34 21.7	1.583	2.539	6.8	19.1
2 11	8 18.72	+35 23.4	1.602	2.521	10.3	19.3
2 21	8 9.43	+36 0.1	1.646	2.503	14.0	19.5
3 2	8 3.03	+36 13.1	1.711	2.484	17.3	19.7

308755 2006 KD_{29} 1 27.2 251°.53 3°.0/28.7 17

12 23	9 2.51	+10 2.4	1.818	2.609	15.4	21.6
1 2	8 57.57	+ 9 57.0	1.719	2.594	12.2	21.4
1 12	8 50.07	+10 5.8	1.643	2.579	8.3	21.1
1 22	8 40.63	+10 27.6	1.592	2.564	4.4	20.8
2 1	8 30.24	+10 59.7	1.570	2.548	3.4	20.7
2 11	8 20.15	+11 37.8	1.576	2.531	7.1	20.9
2 21	8 11.54	+12 17.4	1.609	2.515	11.4	21.1
3 2	8 5.37	+12 54.5	1.666	2.497	15.2	21.3

209080 2003 SS_{11} 1 27.2 179°.66 0°.3/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.09	+16 2.1	2.075	2.873	13.6	21.8
1 2	8 58.32	+16 23.7	1.990	2.874	10.3	21.5
1 12	8 50.29	+16 54.3	1.929	2.876	6.5	21.3
1 22	8 40.63	+17 30.2	1.897	2.876	2.3	21.0
2 1	8 30.30	+18 7.4	1.894	2.876	2.0	21.0
2 11	8 20.43	+18 41.4	1.922	2.875	6.2	21.3
2 21	8 12.01	+19 9.5	1.977	2.873	10.1	21.5
3 2	8 5.82	+19 29.8	2.058	2.871	13.4	21.7

209980 2006 HC_{55} 1 27.2 220°.96 0°.9/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.76	+18 50.7	1.939	2.747	14.0	21.4
1 2	8 58.39	+19 25.3	1.847	2.738	10.6	21.2
1 12	8 50.51	+20 8.3	1.780	2.730	6.6	20.9
1 22	8 40.76	+20 55.0	1.740	2.720	2.3	20.6
2 1	8 30.15	+21 39.9	1.730	2.711	2.6	20.6
2 11	8 19.94	+22 17.9	1.750	2.700	7.0	20.9
2 21	8 11.26	+22 46.0	1.797	2.689	11.1	21.1
3 2	8 5.00	+23 3.1	1.867	2.677	14.7	21.3

82581 2001 OC_{87} 1 27.2 68°.11 1°.0/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.43	+12 30.3	2.178	2.974	13.1	18.8
1 2	8 53.81	+13 8.2	2.113	2.994	9.9	18.6
1 12	8 47.31	+13 57.6	2.071	3.015	6.4	18.5
1 22	8 39.54	+14 54.8	2.058	3.035	2.6	18.3
2 1	8 31.34	+15 55.2	2.074	3.056	1.9	18.2
2 11	8 23.65	+16 54.0	2.121	3.076	5.5	18.5
2 21	8 17.26	+17 47.3	2.195	3.097	8.9	18.8
3 2	8 12.77	+18 32.5	2.295	3.117	11.9	19.0

194624 2001 XV_{152} 1 27.2 66°.92 1°.6/27.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.84	+12 56.9	1.344	2.159	18.6	20.9
1 2	8 59.52	+13 14.8	1.292	2.184	14.2	20.7
1 12	8 51.22	+13 48.5	1.261	2.208	9.1	20.4
1 22	8 40.95	+14 33.4	1.255	2.233	3.7	20.2
2 1	8 30.12	+15 23.3	1.275	2.257	2.7	20.2
2 11	8 20.31	+16 11.5	1.323	2.282	7.7	20.6
2 21	8 12.75	+16 53.0	1.396	2.306	12.4	20.9
3 2	8 8.23	+17 25.1	1.491	2.330	16.3	21.2

95484 2002 EF_{22} 1 27.2 169°.43 0°.4/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.12	+17 15.7	2.110	2.917	13.0	19.9
1 2	8 55.34	+17 53.2	2.028	2.918	9.8	19.7
1 12	8 48.42	+18 39.5	1.970	2.919	6.1	19.5
1 22	8 39.99	+19 30.3	1.940	2.920	2.1	19.2
2 1	8 30.92	+20 20.9	1.940	2.921	2.2	19.2
2 11	8 22.27	+21 6.4	1.969	2.922	6.2	19.5
2 21	8 14.99	+21 43.7	2.027	2.922	9.9	19.7
3 2	8 9.79	+22 11.1	2.108	2.922	13.1	19.9

152452 2005 UB_{501} 1 27.2 185°.73 0°.6/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.15	+16 31.1	2.044	2.851	13.4	20.3
1 2	8 55.48	+17 28.5	1.960	2.851	10.1	20.1
1 12	8 48.59	+18 37.0	1.901	2.851	6.3	19.9
1 22	8 40.08	+19 51.4	1.870	2.850	2.2	19.6
2 1	8 30.86	+21 5.6	1.869	2.850	2.3	19.6
2 11	8 22.02	+22 13.7	1.898	2.849	6.5	19.9
2 21	8 14.55	+23 11.2	1.954	2.847	10.3	20.1
3 2	8 9.25	+23 56.1	2.035	2.846	13.6	20.3

119994 2002 YJ 1 27.2 63°.55 3°.1/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.65	+21 48.6	1.244	2.081	18.5	19.2
1 2	9 0.58	+22 50.0	1.195	2.101	13.8	19.0
1 12	8 52.11	+23 59.2	1.167	2.121	8.6	18.8
1 22	8 41.32	+25 7.0	1.163	2.141	3.8	18.5
2 1	8 29.83	+26 3.6	1.185	2.162	4.7	18.7
2 11	8 19.47	+26 42.4	1.234	2.182	9.6	19.0
2 21	8 11.68	+27 1.9	1.307	2.203	14.1	19.3
3 2	8 7.32	+27 3.6	1.399	2.223	18.0	19.6

131964 2002 CY_{49} 1 27.2 317°.37 4°.3/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.74	+ 9 33.8	1.387	2.198	18.4	19.9
1 2	8 56.84	+ 9 4.7	1.301	2.186	14.6	19.6
1 12	8 49.91	+ 8 52.0	1.235	2.174	10.2	19.3
1 22	8 40.66	+ 8 55.9	1.192	2.163	5.8	19.0
2 1	8 30.30	+ 9 14.6	1.175	2.152	4.6	18.9
2 11	8 20.42	+ 9 43.7	1.184	2.142	8.6	19.1
2 21	8 12.46	+10 17.8	1.217	2.132	13.4	19.3
3 2	8 7.50	+10 51.7	1.272	2.123	17.7	19.6

172814 2004 GV_{55} 1 27.2 73°.28 1°.0/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.87	+20 38.5	2.301	3.110	12.0	21.0
1 2	8 54.91	+21 0.1	2.226	3.119	9.0	20.8
1 12	8 48.02	+21 26.0	2.177	3.127	5.6	20.6
1 22	8 39.82	+21 52.8	2.155	3.135	2.0	20.4
2 1	8 31.15	+22 16.6	2.164	3.143	2.3	20.4
2 11	8 22.96	+22 34.4	2.202	3.152	5.8	20.7
2 21	8 16.08	+22 44.6	2.268	3.160	9.2	20.9
3 2	8 11.14	+22 46.7	2.359	3.169	12.0	21.1

413116 2001 WK_{7} 1 27.2 30°.81 9°.7/21.4 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.84	+37 17.5	1.443	2.278	16.5	20.2
1 2	8 59.55	+39 14.6	1.398	2.289	13.3	20.0
1 12	8 51.68	+41 3.2	1.375	2.300	10.7	19.9
1 22	8 41.24	+42 30.3	1.376	2.313	9.7	19.8
2 1	8 29.87	+43 25.6	1.402	2.326	10.9	20.0
2 11	8 19.54	+43 45.3	1.452	2.339	13.5	20.1
2 21	8 11.83	+43 32.1	1.524	2.353	16.3	20.4
3 2	8 7.69	+42 52.6	1.613	2.368	18.9	20.6

174958 2004 CS_{130} 1 27.2 238°.73 6°.6/23.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.04	+35 4.9	1.985	2.797	13.5	20.3
1 2	9 1.92	+36 5.0	1.904	2.787	10.8	20.1
1 12	8 52.85	+37 0.3	1.846	2.776	8.1	19.9
1 22	8 41.62	+37 42.6	1.815	2.765	6.6	19.8
2 1	8 29.47	+38 4.6	1.813	2.754	7.5	19.8
2 11	8 17.91	+38 2.9	1.838	2.742	10.1	20.0
2 21	8 8.29	+37 38.4	1.888	2.730	13.1	20.1
3 2	8 1.56	+36 55.1	1.960	2.717	15.9	20.3

194266 2001 UV_{1} 1 27.2 349°.70 19°.3/24.3 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 33.30	+57 26.5	1.094	1.878	23.9	18.8
1 2	9 24.89	+58 21.8	1.040	1.868	21.9	18.6
1 12	9 8.66	+58 41.2	1.001	1.860	20.2	18.5
1 22	8 47.13	+58 2.9	0.979	1.853	19.4	18.4
2 1	8 24.95	+56 13.5	0.976	1.847	19.7	18.4
2 11	8 6.86	+53 17.8	0.992	1.844	21.3	18.5
2 21	7 55.34	+49 35.2	1.028	1.842	23.6	18.6
3 2	7 50.64	+45 28.6	1.081	1.841	26.0	18.8

332150 2005 YQ_{44} 1 27.2 88°.73 0°.2/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.39	+15 51.9	1.949	2.757	13.9	21.3
1 2	8 55.62	+16 22.3	1.875	2.765	10.5	21.1
1 12	8 48.62	+17 2.7	1.825	2.774	6.6	20.9
1 22	8 40.07	+17 49.0	1.802	2.782	2.3	20.7
2 1	8 30.94	+18 36.3	1.809	2.791	2.1	20.7
2 11	8 22.32	+19 20.0	1.845	2.799	6.3	20.9
2 21	8 15.21	+19 56.5	1.907	2.808	10.1	21.2
3 2	8 10.30	+20 24.0	1.994	2.816	13.4	21.4

432896 2011 OH_{3} 1 27.2 182°.95 0°.6/27.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.29	+17 1.3	2.696	3.485	11.0	21.0
1 2	8 56.43	+16 45.9	2.606	3.485	8.4	20.8
1 12	8 48.85	+16 34.8	2.541	3.485	5.3	20.6
1 22	8 40.11	+16 26.4	2.506	3.485	2.0	20.3
2 1	8 30.92	+16 18.9	2.503	3.484	1.7	20.3
2 11	8 22.12	+16 10.9	2.531	3.484	4.9	20.5
2 21	8 14.45	+16 1.3	2.588	3.483	8.0	20.7
3 2	8 8.48	+15 49.4	2.671	3.481	10.7	20.9

463299 2012 HQ_{74} 1 27.2 353°.66 9°.7/ 1.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.63	− 3 14.5	1.329	2.105	20.8	20.2
1 2	8 51.43	− 3 55.3	1.251	2.098	17.8	19.9
1 12	8 46.48	− 4 5.7	1.191	2.092	14.4	19.7
1 22	8 39.45	− 3 41.6	1.151	2.087	11.3	19.5
2 1	8 31.47	− 2 42.8	1.134	2.084	9.7	19.4
2 11	8 23.98	− 1 15.1	1.140	2.082	10.9	19.5
2 21	8 18.29	+ 0 31.3	1.169	2.082	14.0	19.6
3 2	8 15.37	+ 2 24.7	1.219	2.083	17.5	19.8

461941 2006 SA_{299} 1 27.2 86°.17 8°.8/ 2.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.88	− 6 36.5	1.807	2.527	18.0	22.1
1 2	8 55.28	− 7 2.0	1.737	2.542	15.4	22.0
1 12	8 48.42	− 7 0.6	1.686	2.558	12.6	21.8
1 22	8 40.01	− 6 30.5	1.658	2.573	10.1	21.7
2 1	8 31.02	− 5 32.6	1.656	2.588	8.8	21.7
2 11	8 22.58	− 4 12.0	1.679	2.603	9.5	21.7
2 21	8 15.67	− 2 36.8	1.729	2.618	11.7	21.9
3 2	8 11.02	− 0 55.5	1.803	2.633	14.3	22.1

149499 2003 FP_{16} 1 27.2 260°.62 4°.5/23.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.30	+29 39.5	2.265	3.077	12.1	19.9
1 2	8 58.82	+30 41.9	2.164	3.054	9.4	19.7
1 12	8 50.84	+31 45.4	2.089	3.030	6.5	19.5
1 22	8 40.95	+32 43.2	2.042	3.005	4.6	19.3
2 1	8 30.08	+33 28.6	2.024	2.980	5.6	19.4
2 11	8 19.45	+33 57.1	2.036	2.954	8.4	19.5
2 21	8 10.21	+34 7.2	2.074	2.928	11.6	19.6
3 2	8 3.30	+34 0.1	2.135	2.901	14.5	19.8

178934 2001 QL_{67} 1 27.2 152°.56 1°.6/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.98	+11 58.9	2.255	3.040	13.0	21.2
1 2	8 56.50	+12 13.7	2.174	3.049	10.0	21.1
1 12	8 49.04	+12 39.3	2.117	3.057	6.6	20.9
1 22	8 40.21	+13 13.2	2.089	3.064	3.0	20.6
2 1	8 30.84	+13 52.1	2.090	3.071	2.2	20.6
2 11	8 21.92	+14 32.1	2.122	3.077	5.6	20.8
2 21	8 14.28	+15 9.8	2.183	3.083	9.1	21.0
3 2	8 8.61	+15 42.5	2.269	3.088	12.1	21.3

226968 2004 VV_{101} 1 27.2 178°.12 2°.5/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 1.84	+23 51.5	2.125	2.940	12.7	20.5
1 2	8 56.70	+24 32.7	2.046	2.940	9.5	20.3
1 12	8 49.31	+25 17.2	1.991	2.941	6.0	20.1
1 22	8 40.34	+26 0.0	1.964	2.941	2.9	19.9
2 1	8 30.72	+26 35.8	1.967	2.941	3.6	20.0
2 11	8 21.58	+27 0.6	2.000	2.941	7.0	20.2
2 21	8 13.91	+27 13.0	2.059	2.941	10.4	20.4
3 2	8 8.45	+27 13.2	2.142	2.940	13.4	20.6

381297 2007 UE_{33} 1 27.2 138°.51 4°.3/30.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.93	+ 3 12.5	2.822	3.563	11.7	21.1
1 2	8 54.53	+ 2 44.5	2.739	3.574	9.5	21.0
1 12	8 47.62	+ 2 28.6	2.680	3.585	7.1	20.8
1 22	8 39.68	+ 2 24.8	2.649	3.596	5.0	20.7
2 1	8 31.35	+ 2 32.4	2.648	3.606	4.3	20.7
2 11	8 23.37	+ 2 49.6	2.677	3.615	5.7	20.8
2 21	8 16.38	+ 3 13.6	2.736	3.624	7.9	20.9
3 2	8 10.90	+ 3 41.4	2.820	3.633	10.2	21.1

336718 2010 CZ_{142} 1 27.2 291°.29 0°.2/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.22	+18 5.7	2.087	2.893	13.2	20.8
1 2	8 56.92	+17 59.1	2.000	2.889	10.0	20.6
1 12	8 49.42	+17 58.1	1.937	2.885	6.3	20.3
1 22	8 40.37	+18 0.1	1.902	2.881	2.3	20.1
2 1	8 30.70	+18 2.4	1.896	2.878	2.0	20.0
2 11	8 21.50	+18 2.3	1.920	2.874	6.1	20.3
2 21	8 13.73	+17 58.5	1.971	2.871	9.9	20.5
3 2	8 8.14	+17 50.1	2.047	2.867	13.2	20.7

391838 2008 SE_{179} 1 27.2 221°.52 1°.0/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.72	+14 24.5	1.739	2.542	15.6	22.3
1 2	8 59.35	+14 41.0	1.648	2.533	12.0	22.0
1 12	8 51.26	+15 9.8	1.579	2.525	7.7	21.8
1 22	8 41.10	+15 47.6	1.537	2.515	3.0	21.4
2 1	8 29.98	+16 29.6	1.523	2.505	2.4	21.4
2 11	8 19.28	+17 10.5	1.539	2.494	7.2	21.6
2 21	8 10.25	+17 46.0	1.581	2.483	11.7	21.9
3 2	8 3.86	+18 13.7	1.646	2.471	15.7	22.1

422141 2014 QL_{432} 1 27.2 67°.53 5°.7/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.07	+31 9.2	1.740	2.565	14.6	20.5
1 2	8 59.64	+32 11.2	1.680	2.575	11.2	20.3
1 12	8 51.35	+33 10.6	1.643	2.585	7.9	20.1
1 22	8 41.07	+33 59.0	1.633	2.595	5.8	20.0
2 1	8 30.12	+34 29.4	1.650	2.605	6.7	20.1
2 11	8 19.98	+34 38.4	1.694	2.615	9.7	20.3
2 21	8 11.91	+34 26.6	1.763	2.625	12.9	20.5
3 2	8 6.71	+33 57.4	1.853	2.635	15.8	20.7

463928 2014 UF_{167} 1 27.2 83°.94 7°.4/ 1.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.35	− 3 0.4	1.868	2.607	16.9	21.3
1 2	8 54.84	− 3 23.1	1.795	2.619	14.2	21.2
1 12	8 48.15	− 3 22.4	1.741	2.630	11.3	21.0
1 22	8 39.94	− 2 57.1	1.711	2.642	8.6	20.9
2 1	8 31.14	− 2 8.3	1.708	2.654	7.4	20.8
2 11	8 22.85	− 1 0.9	1.731	2.665	8.5	20.9
2 21	8 16.02	+ 0 18.5	1.781	2.677	11.0	21.1
3 2	8 11.35	+ 1 42.5	1.855	2.688	13.8	21.3

184722 2005 SP_{164} 1 27.2 138°.58 2°.7/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.98	+ 7 59.8	2.401	3.170	12.8	21.3
1 2	8 55.60	+ 8 11.7	2.322	3.183	10.0	21.1
1 12	8 48.41	+ 8 36.2	2.267	3.196	6.9	20.9
1 22	8 39.99	+ 9 11.8	2.241	3.209	3.8	20.7
2 1	8 31.11	+ 9 55.4	2.244	3.220	2.9	20.7
2 11	8 22.65	+10 43.3	2.279	3.231	5.4	20.9
2 21	8 15.38	+11 31.6	2.342	3.241	8.5	21.1
3 2	8 9.90	+12 17.1	2.431	3.251	11.4	21.3

282835 2006 UG_{8} 1 27.2 149°.54 1°.1/28.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.55	+12 49.1	2.789	3.574	10.8	21.8
1 2	8 52.87	+13 7.1	2.704	3.580	8.2	21.6
1 12	8 46.65	+13 33.5	2.645	3.585	5.4	21.4
1 22	8 39.37	+14 6.2	2.614	3.590	2.3	21.2
2 1	8 31.67	+14 42.5	2.614	3.595	1.7	21.2
2 11	8 24.29	+15 19.2	2.645	3.599	4.6	21.4
2 21	8 17.88	+15 53.8	2.705	3.603	7.6	21.6
3 2	8 12.99	+16 24.1	2.791	3.607	10.2	21.8

80252 1999 WD_{12} 1 27.2 80°.48 3°.0/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.31	+21 44.4	1.327	2.160	17.8	19.9
1 2	9 0.34	+22 46.7	1.267	2.172	13.4	19.7
1 12	8 52.04	+23 57.7	1.230	2.184	8.4	19.4
1 22	8 41.38	+25 8.2	1.217	2.195	3.7	19.2
2 1	8 29.86	+26 8.8	1.231	2.207	4.7	19.3
2 11	8 19.29	+26 52.4	1.272	2.219	9.5	19.6
2 21	8 11.11	+27 16.6	1.337	2.231	14.0	19.9
3 2	8 6.28	+27 22.7	1.422	2.242	17.9	20.1

334906 2003 WP_{186} 1 27.2 84°.07 1°.9/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 0.67	+12 29.5	2.094	2.887	13.6	21.3
1 2	8 55.62	+12 24.6	2.017	2.896	10.5	21.1
1 12	8 48.54	+12 29.7	1.965	2.905	6.9	20.9
1 22	8 40.06	+12 43.2	1.939	2.914	3.2	20.7
2 1	8 31.07	+13 2.4	1.943	2.923	2.4	20.6
2 11	8 22.59	+13 24.0	1.977	2.932	5.9	20.9
2 21	8 15.49	+13 45.1	2.038	2.941	9.4	21.1
3 2	8 10.43	+14 3.3	2.123	2.950	12.5	21.3

157871 1999 ES_{11} 1 27.2 246°.65 1°.6/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.63	+16 57.7	2.228	3.026	12.7	19.7
1 2	8 57.50	+18 42.3	2.122	3.010	9.6	19.5
1 12	8 50.03	+20 41.4	2.044	2.993	6.0	19.2
1 22	8 40.71	+22 48.5	1.996	2.975	2.3	18.9
2 1	8 30.36	+24 54.9	1.981	2.957	3.1	19.0
2 11	8 20.08	+26 52.0	1.998	2.938	7.1	19.2
2 21	8 10.94	+28 33.6	2.045	2.919	10.9	19.4
3 2	8 3.90	+29 56.4	2.117	2.899	14.1	19.5

368802 2005 YN_{71} 1 27.2 123°.47 3°.1/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.76	+25 19.0	2.052	2.869	13.0	21.1
1 2	8 57.45	+26 8.0	1.981	2.876	9.8	20.9
1 12	8 49.80	+26 59.2	1.934	2.883	6.3	20.7
1 22	8 40.53	+27 46.9	1.915	2.889	3.4	20.5
2 1	8 30.65	+28 25.3	1.926	2.896	4.2	20.6
2 11	8 21.33	+28 50.5	1.965	2.902	7.5	20.8
2 21	8 13.59	+29 1.4	2.031	2.908	10.8	21.0
3 2	8 8.17	+28 58.6	2.120	2.913	13.7	21.2

34441 2000 SZ_{60} 1 27.2 230°.34 1°.4/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.49	+12 7.3	2.725	3.509	11.0	20.0
1 2	8 52.96	+12 23.1	2.627	3.501	8.5	19.8
1 12	8 46.80	+12 48.2	2.554	3.493	5.6	19.6
1 22	8 39.47	+13 20.6	2.509	3.485	2.5	19.4
2 1	8 31.63	+13 57.7	2.496	3.476	1.9	19.3
2 11	8 24.03	+14 36.3	2.512	3.467	4.8	19.5
2 21	8 17.39	+15 13.5	2.558	3.458	7.9	19.7
3 2	8 12.29	+15 46.8	2.630	3.449	10.6	19.9

419078 2009 SH_{106} 1 27.2 217°.04 4°.2/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.46	+30 0.8	2.100	2.910	13.0	21.2
1 2	9 1.07	+30 28.4	2.016	2.905	10.0	21.0
1 12	8 52.13	+30 53.5	1.957	2.900	6.8	20.8
1 22	8 41.37	+31 10.2	1.926	2.894	4.4	20.6
2 1	8 29.92	+31 13.6	1.925	2.888	5.1	20.6
2 11	8 19.07	+31 1.2	1.952	2.881	8.1	20.8
2 21	8 9.94	+30 33.6	2.007	2.874	11.3	21.0
3 2	8 3.36	+29 53.3	2.085	2.867	14.3	21.2

22562 Wage 1 27.2 94°.20 0°.2/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.36	+16 48.7	1.983	2.788	13.8	18.9
1 2	8 57.01	+17 3.2	1.913	2.802	10.4	18.7
1 12	8 49.45	+17 25.7	1.867	2.815	6.6	18.5
1 22	8 40.40	+17 52.6	1.849	2.828	2.3	18.3
2 1	8 30.84	+18 20.0	1.860	2.842	2.0	18.3
2 11	8 21.88	+18 44.3	1.900	2.855	6.2	18.6
2 21	8 14.46	+19 2.8	1.968	2.868	9.9	18.8
3 2	8 9.26	+19 14.3	2.060	2.880	13.1	19.0

65526 6075 $P–L$ 1 27.2 54°.43 5°.2/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.42	+ 5 33.4	1.219	2.023	20.8	19.3
1 2	8 57.96	+ 5 26.4	1.166	2.044	16.5	19.1
1 12	8 50.42	+ 5 44.7	1.132	2.065	11.7	18.9
1 22	8 40.79	+ 6 26.6	1.121	2.087	7.0	18.7
2 1	8 30.51	+ 7 27.2	1.135	2.109	5.4	18.6
2 11	8 21.22	+ 8 38.0	1.174	2.132	8.7	18.9
2 21	8 14.21	+ 9 50.4	1.238	2.154	13.1	19.2
3 2	8 10.31	+10 57.3	1.323	2.177	17.0	19.5

101766 1999 FX_{49} 1 27.2 295°.31 4°.9/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.89	+29 26.5	1.736	2.561	14.6	19.3
1 2	8 59.83	+30 7.5	1.646	2.542	11.3	19.0
1 12	8 51.74	+30 48.3	1.578	2.524	7.8	18.8
1 22	8 41.35	+31 21.2	1.536	2.505	5.1	18.6
2 1	8 29.89	+31 39.3	1.523	2.486	6.0	18.6
2 11	8 18.93	+31 38.0	1.536	2.468	9.6	18.7
2 21	8 9.90	+31 17.4	1.574	2.449	13.5	18.9
3 2	8 3.82	+30 39.9	1.634	2.431	17.0	19.1

419430 2010 CD_{5} 1 27.2 26°.84 0°.8/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.51	+13 5.8	1.923	2.729	14.1	20.6
1 2	8 53.55	+13 48.0	1.845	2.733	10.8	20.4
1 12	8 47.41	+14 43.6	1.791	2.738	6.9	20.2
1 22	8 39.73	+15 48.7	1.764	2.743	2.7	19.9
2 1	8 31.42	+16 57.8	1.766	2.748	2.0	19.9
2 11	8 23.55	+18 4.9	1.797	2.754	6.2	20.2
2 21	8 17.09	+19 5.1	1.855	2.760	10.1	20.4
3 2	8 12.77	+19 55.3	1.937	2.766	13.5	20.6

31084 1996 YX_2 1 27.2 27°.76 0°.7/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 58.76	+18 46.7	1.854	2.673	14.0	18.7
1 2	8 54.50	+19 10.4	1.786	2.683	10.5	18.5
1 12	8 47.97	+19 41.5	1.742	2.694	6.5	18.3
1 22	8 39.91	+20 15.7	1.725	2.705	2.3	18.0
2 1	8 31.30	+20 48.3	1.736	2.717	2.4	18.0
2 11	8 23.29	+21 15.2	1.776	2.730	6.6	18.3
2 21	8 16.85	+21 34.0	1.842	2.743	10.4	18.6
3 2	8 12.67	+21 43.5	1.931	2.756	13.7	18.8

366844 2005 QW_{134} 1 27.2 229°.48 0°.1/27.3 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.75	+16 15.2	2.127	2.928	13.1	22.2
1 2	8 56.68	+16 40.5	2.032	2.918	10.0	22.0
1 12	8 49.38	+17 15.0	1.961	2.908	6.4	21.8
1 22	8 40.44	+17 55.4	1.918	2.898	2.3	21.5
2 1	8 30.75	+18 37.2	1.905	2.887	2.0	21.4
2 11	8 21.39	+19 16.0	1.922	2.876	6.2	21.7
2 21	8 13.35	+19 48.6	1.967	2.864	10.1	21.9
3 2	8 7.43	+20 13.1	2.036	2.852	13.4	22.1

108955 2001 PE_{30} 1 27.2 190°.86 2°.5/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.67	+10 24.8	2.054	2.840	14.1	20.3
1 2	8 56.54	+10 25.0	1.967	2.839	11.0	20.1
1 12	8 49.24	+10 37.7	1.902	2.838	7.4	19.9
1 22	8 40.37	+11 1.3	1.864	2.837	3.8	19.7
2 1	8 30.84	+11 32.8	1.856	2.835	2.9	19.6
2 11	8 21.72	+12 8.5	1.878	2.832	6.2	19.8
2 21	8 13.97	+12 44.4	1.927	2.830	9.9	20.0
3 2	8 8.33	+13 17.5	2.000	2.827	13.2	20.2

237817 2002 CO_{127} 1 27.2 70°.07 0°.7/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.17	+13 28.0	1.430	2.248	17.6	20.1
1 2	8 57.63	+14 10.1	1.367	2.261	13.4	19.8
1 12	8 50.20	+15 8.7	1.325	2.274	8.5	19.6
1 22	8 40.74	+16 18.3	1.308	2.287	3.2	19.3
2 1	8 30.54	+17 31.3	1.318	2.301	2.5	19.3
2 11	8 21.09	+18 39.9	1.356	2.314	7.7	19.6
2 21	8 13.68	+19 38.2	1.420	2.328	12.4	19.9
3 2	8 9.16	+20 23.2	1.505	2.341	16.3	20.2

359392 2010 HF_6 1 27.2 231°.75 0°.2/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.03	+15 26.4	2.011	2.810	13.8	22.0
1 2	8 57.83	+16 1.1	1.912	2.797	10.6	21.7
1 12	8 50.22	+16 47.1	1.837	2.784	6.7	21.5
1 22	8 40.77	+17 40.6	1.790	2.770	2.4	21.1
2 1	8 30.43	+18 36.5	1.773	2.755	2.1	21.1
2 11	8 20.38	+19 29.4	1.786	2.739	6.6	21.3
2 21	8 11.70	+20 15.0	1.827	2.723	10.7	21.6
3 2	8 5.31	+20 50.9	1.891	2.706	14.3	21.8

459754 2013 QD_{45} 1 27.2 228°.62 1°.9/28.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.17	+11 18.9	2.147	2.936	13.4	22.1
1 2	8 55.40	+11 30.9	2.053	2.929	10.4	21.9
1 12	8 48.53	+11 54.9	1.983	2.922	7.0	21.6
1 22	8 40.14	+12 29.0	1.940	2.915	3.3	21.4
2 1	8 31.06	+13 10.0	1.927	2.907	2.4	21.3
2 11	8 22.30	+13 53.5	1.943	2.899	5.9	21.5
2 21	8 14.80	+14 35.7	1.987	2.890	9.6	21.7
3 2	8 9.31	+15 13.5	2.056	2.881	12.9	21.9

3207 Spinrad 1 27.2 159°.81 0°.7/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.66	+14 46.5	2.273	3.070	12.5	17.4
1 2	8 54.84	+15 5.5	2.189	3.072	9.5	17.2
1 12	8 48.07	+15 33.5	2.130	3.075	6.1	17.0
1 22	8 39.94	+16 7.7	2.098	3.077	2.3	16.7
2 1	8 31.26	+16 44.5	2.097	3.078	1.8	16.7
2 11	8 22.98	+17 20.1	2.125	3.080	5.6	16.9
2 21	8 15.93	+17 51.5	2.182	3.082	9.1	17.1
3 2	8 10.79	+18 16.6	2.263	3.083	12.1	17.3

89287 2001 VM_{18} 1 27.2 183°.16 1°.3/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.06	+19 49.5	1.597	2.416	15.9	20.1
1 2	8 59.78	+20 18.7	1.519	2.416	12.1	19.9
1 12	8 51.58	+20 56.1	1.465	2.416	7.6	19.6
1 22	8 41.26	+21 36.2	1.436	2.416	2.7	19.3
2 1	8 30.07	+22 12.7	1.436	2.416	3.1	19.3
2 11	8 19.51	+22 40.3	1.463	2.415	7.9	19.6
2 21	8 10.91	+22 56.4	1.517	2.414	12.4	19.9
3 2	8 5.20	+23 0.7	1.592	2.413	16.3	20.1

420388 2012 CT_9 1 27.2 173°.05 0°.7/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.33	+20 31.8	2.164	2.964	13.0	21.0
1 2	8 59.93	+20 34.0	2.080	2.967	9.8	20.8
1 12	8 51.27	+20 39.9	2.022	2.970	6.1	20.6
1 22	8 41.07	+20 46.0	1.992	2.971	2.2	20.3
2 1	8 30.28	+20 49.3	1.992	2.973	2.2	20.3
2 11	8 20.03	+20 47.2	2.023	2.973	6.2	20.6
2 21	8 11.31	+20 38.7	2.082	2.974	9.9	20.8
3 2	8 4.83	+20 24.1	2.167	2.973	13.0	21.0

134444 1998 SV_{75} 1 27.2 102°.24 3°.0/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.20	+24 36.6	1.899	2.712	14.0	20.6
1 2	9 0.03	+25 25.0	1.840	2.734	10.5	20.4
1 12	8 51.39	+26 15.7	1.806	2.755	6.7	20.2
1 22	8 41.09	+27 2.2	1.800	2.775	3.4	20.0
2 1	8 30.29	+27 38.8	1.823	2.795	4.1	20.1
2 11	8 20.26	+28 1.6	1.876	2.815	7.6	20.4
2 21	8 12.05	+28 9.9	1.955	2.834	11.1	20.6
3 2	8 6.39	+28 4.9	2.058	2.852	14.1	20.8

122482 2000 QB_{169} 1 27.2 139°.49 0°.3/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.76	+16 16.5	1.886	2.686	14.6	20.8
1 2	8 59.71	+16 32.7	1.812	2.698	11.1	20.6
1 12	8 51.22	+16 57.8	1.763	2.709	7.0	20.4
1 22	8 41.06	+17 28.1	1.740	2.720	2.5	20.2
2 1	8 30.30	+17 59.2	1.748	2.730	2.1	20.1
2 11	8 20.16	+18 27.0	1.785	2.739	6.5	20.4
2 21	8 11.70	+18 48.6	1.850	2.748	10.5	20.7
3 2	8 5.69	+19 2.7	1.939	2.756	13.9	20.9

165781 2001 QE_{283} 1 27.2 93°.61 3°.9/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.16	+ 5 20.6	2.561	3.315	12.5	20.0
1 2	8 55.53	+ 4 54.5	2.492	3.339	10.0	19.8
1 12	8 48.27	+ 4 40.5	2.448	3.362	7.2	19.7
1 22	8 39.97	+ 4 38.3	2.431	3.385	4.8	19.6
2 1	8 31.34	+ 4 46.8	2.444	3.408	4.0	19.6
2 11	8 23.18	+ 5 3.7	2.487	3.431	5.7	19.7
2 21	8 16.17	+ 5 26.1	2.559	3.453	8.2	19.9
3 2	8 10.83	+ 5 51.0	2.657	3.474	10.6	20.1

448178 2008 TG_{167} 1 27.3 79°.96 1°.1/27.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.98	+15 43.0	1.431	2.244	17.8	21.8
1 2	9 1.80	+15 38.3	1.375	2.266	13.5	21.5
1 12	8 52.66	+15 44.4	1.340	2.288	8.6	21.3
1 22	8 41.57	+15 57.7	1.331	2.310	3.3	21.1
2 1	8 29.94	+16 13.8	1.350	2.331	2.6	21.1
2 11	8 19.35	+16 28.5	1.396	2.353	7.6	21.4
2 21	8 11.02	+16 39.1	1.468	2.374	12.2	21.7
3 2	8 5.72	+16 44.0	1.562	2.395	16.0	22.0

643 Scheherezade 1 27.3 6°.09 5°.2/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.76	+ 2 25.5	2.420	3.170	13.2	14.9
1 2	8 53.27	+ 1 48.3	2.332	3.171	10.8	14.7
1 12	8 47.04	+ 1 25.1	2.267	3.171	8.3	14.6
1 22	8 39.59	+ 1 16.6	2.228	3.172	6.0	14.4
2 1	8 31.65	+ 1 22.5	2.217	3.172	5.2	14.4
2 11	8 24.03	+ 1 40.8	2.235	3.173	6.6	14.5
2 21	8 17.49	+ 2 8.2	2.281	3.174	9.0	14.6
3 2	8 12.64	+ 2 41.0	2.351	3.175	11.6	14.8

225017 2007 EB_{204} 1 27.3 12°.49 1°.5/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.57	+13 12.9	1.536	2.354	16.5	20.7
1 2	8 54.82	+13 24.9	1.464	2.357	12.7	20.4
1 12	8 48.43	+13 51.2	1.412	2.360	8.2	20.2
1 22	8 40.16	+14 28.7	1.386	2.364	3.5	19.9
2 1	8 31.14	+15 12.6	1.387	2.369	2.5	19.9
2 11	8 22.73	+15 56.9	1.415	2.374	7.2	20.2
2 21	8 16.10	+16 36.9	1.468	2.380	11.7	20.4
3 2	8 12.09	+17 9.2	1.543	2.387	15.6	20.7

236895 2007 TZ_{16} 1 27.3 109°.73 6°.5/ 1.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.53	− 4 14.2	2.497	3.210	13.7	21.1
1 2	8 53.01	− 4 37.4	2.416	3.220	11.6	21.0
1 12	8 46.84	− 4 42.2	2.356	3.230	9.4	20.8
1 22	8 39.52	− 4 27.6	2.322	3.239	7.4	20.7
2 1	8 31.76	− 3 54.2	2.315	3.249	6.5	20.7
2 11	8 24.34	− 3 5.1	2.336	3.259	7.3	20.7
2 21	8 17.99	− 2 4.6	2.385	3.268	9.1	20.9
3 2	8 13.27	− 0 58.0	2.459	3.277	11.3	21.0

229962 1999 TS_{125} 1 27.3 111°.57 2°.5/28.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.93	+11 1.2	1.552	2.348	17.4	21.8
1 2	9 0.90	+11 4.8	1.488	2.367	13.5	21.6
1 12	8 52.10	+11 23.9	1.446	2.386	8.9	21.4
1 22	8 41.41	+11 55.5	1.429	2.404	4.3	21.2
2 1	8 30.09	+12 35.3	1.441	2.421	3.1	21.1
2 11	8 19.59	+13 17.6	1.481	2.437	7.3	21.4
2 21	8 11.11	+13 57.6	1.548	2.453	11.7	21.7
3 2	8 5.44	+14 31.9	1.637	2.468	15.4	22.0

426580 2013 SC_{24} 1 27.3 79°.49 2°.7/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.71	+24 9.1	2.051	2.868	13.0	21.1
1 2	8 56.62	+24 54.2	1.984	2.880	9.7	20.9
1 12	8 49.29	+25 42.3	1.942	2.891	6.2	20.7
1 22	8 40.43	+26 27.7	1.927	2.903	3.0	20.5
2 1	8 31.02	+27 5.2	1.942	2.914	3.8	20.6
2 11	8 22.19	+27 31.0	1.985	2.926	7.1	20.8
2 21	8 14.91	+27 43.7	2.056	2.937	10.5	21.1
3 2	8 9.89	+27 43.8	2.150	2.949	13.4	21.3

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
432188 2009 DJ_6			1 27.3 287°.22		1°.5/26.4 17	
	h m	° ′			°	m
12 23	9 1.34	+22 33.9	2.307	3.117	12.0	21.4
1 2	8 56.29	+22 46.2	2.208	3.101	9.1	21.2
1 12	8 49.12	+23 1.5	2.135	3.084	5.7	20.9
1 22	8 40.41	+23 16.0	2.089	3.068	2.3	20.7
2 1	8 31.02	+23 26.3	2.073	3.052	2.7	20.7
2 11	8 21.97	+23 29.6	2.088	3.035	6.2	20.9
2 21	8 14.19	+23 24.5	2.129	3.019	9.8	21.1
3 2	8 8.44	+23 11.1	2.196	3.003	12.9	21.3
186165 2001 UG_{134}			1 27.3 34°.16		11°.8/ 4.3 18	
12 23	8 58.74	−13 36.9	1.936	2.608	18.4	20.5
1 2	8 54.55	−14 42.1	1.855	2.608	16.5	20.3
1 12	8 48.13	−15 20.0	1.792	2.609	14.5	20.2
1 22	8 40.09	−15 26.0	1.748	2.610	12.8	20.1
2 1	8 31.31	−14 57.8	1.728	2.610	11.8	20.0
2 11	8 22.91	−13 57.6	1.731	2.611	12.0	20.0
2 21	8 15.88	−12 31.7	1.758	2.612	13.4	20.1
3 2	8 11.01	−10 48.7	1.807	2.613	15.3	20.2
123982 2001 FA_{44}			1 27.3 255°.81		3°.2/29.5 18	
12 23	8 59.07	+ 6 55.0	2.537	3.302	12.3	19.9
1 2	8 54.37	+ 6 54.8	2.425	3.282	9.8	19.6
1 12	8 47.85	+ 7 7.1	2.338	3.262	7.0	19.4
1 22	8 39.97	+ 7 31.4	2.277	3.241	4.2	19.2
2 1	8 31.41	+ 8 6.0	2.247	3.220	3.3	19.1
2 11	8 23.02	+ 8 47.6	2.247	3.198	5.6	19.2
2 21	8 15.59	+ 9 32.7	2.276	3.176	8.7	19.4
3 2	8 9.82	+10 17.8	2.330	3.153	11.7	19.5
330384 2006 XC_{16}			1 27.3 15°.77		3°.3/28.5 18	
12 23	8 58.30	+12 29.2	1.123	1.961	20.0	19.4
1 2	8 55.22	+11 56.8	1.068	1.970	15.5	19.2
1 12	8 48.92	+11 40.8	1.032	1.980	10.4	18.9
1 22	8 40.39	+11 40.1	1.017	1.993	5.2	18.7
2 1	8 31.12	+11 51.4	1.027	2.007	3.9	18.6
2 11	8 22.83	+12 9.7	1.061	2.023	8.6	18.9
2 21	8 16.88	+12 29.8	1.117	2.040	13.5	19.3
3 2	8 14.10	+12 47.4	1.194	2.059	17.7	19.6
135945 2002 TO_{206}			1 27.3 67°.34		1°.5/26.6 17	
12 23	9 8.18	+21 7.8	1.583	2.399	16.2	20.2
1 2	9 1.65	+21 31.8	1.537	2.432	12.1	20.0
1 12	8 52.41	+22 0.8	1.515	2.466	7.4	19.8
1 22	8 41.48	+22 28.9	1.519	2.499	2.8	19.6
2 1	8 30.21	+22 50.9	1.552	2.531	3.1	19.7
2 11	8 20.03	+23 3.3	1.613	2.564	7.5	20.0
2 21	8 12.02	+23 5.1	1.701	2.595	11.5	20.3
3 2	8 6.85	+22 57.3	1.811	2.627	14.8	20.6
296056 2009 AX_{30}			1 27.3 24°.04		0°.1/27.3 18	
12 23	8 57.75	+15 48.0	1.918	2.731	13.9	20.3
1 2	8 53.76	+16 23.8	1.844	2.737	10.5	20.1
1 12	8 47.58	+17 10.1	1.793	2.743	6.6	19.9
1 22	8 39.87	+18 2.9	1.769	2.749	2.3	19.6
2 1	8 31.55	+18 57.0	1.774	2.756	2.1	19.6
2 11	8 23.72	+19 47.2	1.807	2.763	6.3	19.9
2 21	8 17.33	+20 29.7	1.868	2.771	10.2	20.1
3 2	8 13.10	+21 2.2	1.952	2.779	13.5	20.4
16094 Scottmccord			1 27.3 156°.69		0°.3/27.4 18	
12 23	9 2.70	+15 4.9	1.891	2.694	14.5	19.8
1 2	8 57.54	+15 41.1	1.812	2.699	11.0	19.5
1 12	8 49.99	+16 28.8	1.757	2.704	7.0	19.3
1 22	8 40.73	+17 23.8	1.729	2.708	2.5	19.0
2 1	8 30.77	+18 20.6	1.730	2.712	2.1	19.0
2 11	8 21.30	+19 13.6	1.761	2.716	6.6	19.3
2 21	8 13.39	+19 58.8	1.820	2.719	10.6	19.5
3 2	8 7.82	+20 33.9	1.902	2.721	14.1	19.8
170344 2003 SH_{157}			1 27.3 171°.65		1°.5/26.4 18	
12 23	9 5.23	+20 48.3	2.036	2.843	13.5	21.1
1 2	8 59.34	+21 22.2	1.956	2.846	10.1	20.9
1 12	8 51.06	+22 1.7	1.900	2.850	6.3	20.7
1 22	8 41.10	+22 42.0	1.873	2.852	2.4	20.4
2 1	8 30.45	+23 17.9	1.875	2.854	2.8	20.4
2 11	8 20.33	+23 45.2	1.908	2.855	6.8	20.7
2 21	8 11.76	+24 2.0	1.968	2.855	10.5	20.9
3 2	8 5.55	+24 8.0	2.052	2.855	13.8	21.1
428472 2007 UT_{120}			1 27.3 104°.01		3°.3/29.6 18	
12 23	8 58.16	+ 6 41.6	2.376	3.146	12.9	21.5
1 2	8 53.59	+ 6 39.7	2.294	3.153	10.2	21.4
1 12	8 47.26	+ 6 51.0	2.236	3.161	7.2	21.2
1 22	8 39.72	+ 7 14.5	2.205	3.168	4.4	21.0
2 1	8 31.71	+ 7 48.1	2.203	3.175	3.4	21.0
2 11	8 24.08	+ 8 28.3	2.230	3.182	5.6	21.1
2 21	8 17.57	+ 9 11.4	2.286	3.189	8.6	21.3
3 2	8 12.80	+ 9 53.9	2.368	3.196	11.4	21.5

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
89083 2001 TA_{170}			1 27.3 159°.28		1°.6/26.5 18	
	h m	° ′			°	m
12 23	9 8.40	+21 57.1	1.856	2.663	14.5	20.5
1 2	9 1.87	+22 17.1	1.779	2.670	11.0	20.3
1 12	8 52.70	+22 41.1	1.727	2.676	6.9	20.0
1 22	8 41.68	+23 4.2	1.703	2.682	2.7	19.8
2 1	8 29.97	+23 21.5	1.708	2.687	3.1	19.8
2 11	8 18.95	+23 29.5	1.743	2.691	7.3	20.1
2 21	8 9.77	+23 27.1	1.805	2.694	11.3	20.3
3 2	8 3.24	+23 15.1	1.891	2.697	14.7	20.6
421128 2013 QA_{86}			1 27.3 78°.73		0°.3/27.1 18	
12 23	9 1.50	+17 32.4	1.958	2.767	13.8	21.8
1 2	8 56.44	+17 58.4	1.890	2.782	10.4	21.6
1 12	8 49.17	+18 32.2	1.847	2.796	6.5	21.4
1 22	8 40.41	+19 10.0	1.831	2.811	2.2	21.1
2 1	8 31.13	+19 47.0	1.844	2.825	2.1	21.1
2 11	8 22.44	+20 19.1	1.886	2.840	6.3	21.4
2 21	8 15.30	+20 43.7	1.956	2.854	10.0	21.7
3 2	8 10.38	+20 59.5	2.050	2.869	13.2	21.9
81816 2000 KR_{32}			1 27.3 103°.84		5°.3/23.6 18	
12 23	9 6.11	+30 58.5	2.096	2.909	12.9	19.5
1 2	9 0.01	+32 22.6	2.043	2.931	9.9	19.3
1 12	8 51.45	+33 44.3	2.015	2.953	7.0	19.2
1 22	8 41.22	+34 55.6	2.016	2.974	5.3	19.1
2 1	8 30.41	+35 49.8	2.047	2.995	6.2	19.2
2 11	8 20.29	+36 23.3	2.106	3.015	8.7	19.4
2 21	8 11.92	+36 36.3	2.192	3.035	11.5	19.6
3 2	8 6.04	+36 31.2	2.299	3.054	13.9	19.8
145735 1995 OW_7			1 27.3 232°.89		2°.8/28.4 18	
12 23	9 5.71	+11 47.0	1.595	2.394	16.9	20.6
1 2	9 0.33	+11 29.0	1.505	2.386	13.3	20.3
1 12	8 52.04	+11 24.0	1.437	2.377	8.9	20.1
1 22	8 41.55	+11 30.8	1.394	2.368	4.5	19.8
2 1	8 30.04	+11 46.8	1.379	2.358	3.4	19.7
2 11	8 18.99	+12 8.0	1.392	2.348	7.7	19.9
2 21	8 9.76	+12 30.4	1.431	2.337	12.4	20.2
3 2	8 3.35	+12 50.7	1.492	2.326	16.5	20.4
473627 2015 XT_{298}			1 27.3 356°.46		4°.6/29.1 18	
12 23	9 2.09	+ 8 48.6	1.404	2.209	18.5	21.0
1 2	8 57.75	+ 8 15.0	1.327	2.208	14.7	20.8
1 12	8 50.45	+ 7 58.2	1.271	2.207	10.3	20.5
1 22	8 40.98	+ 7 58.6	1.238	2.206	6.1	20.3
2 1	8 30.59	+ 8 14.3	1.230	2.206	4.8	20.2
2 11	8 20.82	+ 8 41.1	1.250	2.206	8.4	20.4
2 21	8 13.03	+ 9 13.6	1.293	2.206	12.9	20.6
3 2	8 8.16	+ 9 46.7	1.358	2.207	17.0	20.9
67150 2000 AK_{187}			1 27.3 66°.98		0°.6/26.9 18	
12 23	9 0.30	+15 54.2	1.885	2.694	14.2	18.8
1 2	8 55.63	+16 58.3	1.823	2.714	10.7	18.6
1 12	8 48.72	+18 13.4	1.785	2.735	6.6	18.4
1 22	8 40.27	+19 33.9	1.775	2.755	2.3	18.2
2 1	8 31.29	+20 52.9	1.794	2.775	2.3	18.2
2 11	8 22.89	+22 4.1	1.843	2.795	6.5	18.6
2 21	8 16.04	+23 3.3	1.919	2.816	10.3	18.8
3 2	8 11.44	+23 48.8	2.020	2.836	13.5	19.1
381226 2007 RV_{293}			1 27.3 56°.10		2°.0/26.1 18	
12 23	9 1.26	+22 32.5	2.003	2.820	13.2	21.2
1 2	8 56.23	+23 7.8	1.943	2.839	9.9	21.1
1 12	8 49.01	+23 46.8	1.908	2.859	6.2	20.9
1 22	8 40.35	+24 24.5	1.900	2.878	2.6	20.7
2 1	8 31.24	+24 56.0	1.921	2.898	3.2	20.7
2 11	8 22.78	+25 17.9	1.972	2.918	6.7	21.0
2 21	8 15.89	+25 28.7	2.049	2.938	10.1	21.3
3 2	8 11.22	+25 28.7	2.150	2.958	13.1	21.5
338078 2002 PA_{106}			1 27.3 161°.35		3°.4/28.9 18	
12 23	9 5.85	+ 9 0.0	1.694	2.480	16.6	22.0
1 2	9 0.10	+ 8 52.4	1.615	2.486	13.1	21.8
1 12	8 51.69	+ 9 0.4	1.558	2.491	9.0	21.5
1 22	8 41.37	+ 9 22.8	1.526	2.496	4.9	21.3
2 1	8 30.29	+ 9 56.4	1.523	2.500	3.8	21.3
2 11	8 19.78	+10 36.4	1.549	2.503	7.3	21.5
2 21	8 11.03	+11 18.0	1.602	2.506	11.5	21.7
3 2	8 4.90	+11 57.0	1.678	2.508	15.2	22.0
161166 2002 TD_{24}			1 27.3 79°.91		2°.0/25.9 18	
12 23	9 1.87	+22 59.6	2.191	3.004	12.4	20.1
1 2	8 56.53	+23 34.9	2.129	3.022	9.3	20.0
1 12	8 49.14	+24 13.1	2.091	3.040	5.8	19.8
1 22	8 40.40	+24 49.6	2.081	3.059	2.5	19.6
2 1	8 31.21	+25 19.9	2.101	3.077	3.1	19.7
2 11	8 22.62	+25 40.9	2.151	3.095	6.4	19.9
2 21	8 15.48	+25 51.2	2.228	3.113	9.6	20.1
3 2	8 10.44	+25 51.1	2.330	3.131	12.4	20.4

1886 Lowell 1 27.3 185°.65 4°.7/23.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.01	+29 21.2	2.226	3.040	12.2	17.0
1 2	8 58.53	+30 41.9	2.150	3.040	9.4	16.8
1 12	8 50.65	+32 3.3	2.099	3.039	6.5	16.6
1 22	8 41.01	+33 18.1	2.076	3.038	4.7	16.5
2 1	8 30.60	+34 19.3	2.084	3.037	5.7	16.6
2 11	8 20.60	+35 2.3	2.120	3.035	8.4	16.7
2 21	8 12.09	+35 25.9	2.183	3.032	11.3	16.9
3 2	8 5.90	+35 31.4	2.269	3.029	13.9	17.1

304024 2006 DF_{55} 1 27.3 288°.46 4°.1/29.5 18

12 23	8 59.70	+ 6 32.1	1.529	2.325	17.6	20.5
1 2	8 56.02	+ 6 41.1	1.431	2.306	14.2	20.2
1 12	8 49.50	+ 7 12.2	1.354	2.288	10.1	19.9
1 22	8 40.74	+ 8 5.2	1.300	2.269	5.8	19.6
2 1	8 30.79	+ 9 16.4	1.274	2.250	4.4	19.5
2 11	8 21.08	+10 38.6	1.274	2.232	8.1	19.6
2 21	8 13.01	+12 3.7	1.299	2.213	12.8	19.8
3 2	8 7.68	+13 24.2	1.347	2.195	17.2	20.1

141132 2001 XL_{91} 1 27.3 73°.93 4°.9/23.7 18

12 23	9 1.44	+31 40.5	2.314	3.130	11.7	19.8
1 2	8 56.40	+32 44.8	2.249	3.138	9.0	19.7
1 12	8 49.18	+33 46.8	2.209	3.147	6.4	19.5
1 22	8 40.46	+34 40.0	2.197	3.155	4.9	19.4
2 1	8 31.16	+35 19.2	2.215	3.163	5.7	19.5
2 11	8 22.39	+35 41.0	2.260	3.172	8.1	19.6
2 21	8 15.09	+35 45.3	2.332	3.180	10.7	19.8
3 2	8 9.95	+35 33.8	2.426	3.189	13.1	20.0

38186 1999 KV 1 27.3 120°.09 0°.6/27.6 18

12 23	9 5.74	+15 16.1	1.920	2.717	14.5	19.9
1 2	8 59.61	+15 36.8	1.853	2.736	11.0	19.7
1 12	8 51.16	+16 7.1	1.810	2.755	7.0	19.5
1 22	8 41.14	+16 43.2	1.794	2.773	2.6	19.3
2 1	8 30.59	+17 20.8	1.808	2.790	2.1	19.3
2 11	8 20.71	+17 55.3	1.852	2.806	6.3	19.6
2 21	8 12.48	+18 23.8	1.924	2.822	10.2	19.8
3 2	8 6.63	+18 44.7	2.020	2.837	13.5	20.1

427869 2005 QT_{99} 1 27.3 217°.89 4°.1/31.0 17

12 23	8 56.31	+ 0 58.5	3.067	3.799	11.0	22.3
1 2	8 51.94	+ 1 2.2	2.963	3.791	9.1	22.2
1 12	8 46.15	+ 1 19.4	2.884	3.783	6.9	22.0
1 22	8 39.36	+ 1 50.2	2.831	3.775	4.9	21.9
2 1	8 32.12	+ 2 33.1	2.808	3.766	4.1	21.8
2 11	8 25.07	+ 3 25.4	2.816	3.756	5.3	21.9
2 21	8 18.81	+ 4 23.6	2.853	3.747	7.4	22.0
3 2	8 13.86	+ 5 24.0	2.917	3.736	9.7	22.1

343039 2009 BQ_{146} 1 27.3 291°.32 0°.5/27.6 18

12 23	8 59.08	+16 12.5	2.354	3.154	12.0	20.9
1 2	8 54.45	+16 18.7	2.262	3.147	9.2	20.7
1 12	8 47.91	+16 31.9	2.194	3.141	5.8	20.5
1 22	8 40.02	+16 49.9	2.155	3.134	2.2	20.2
2 1	8 31.56	+17 9.6	2.145	3.127	1.8	20.2
2 11	8 23.43	+17 28.3	2.166	3.121	5.5	20.4
2 21	8 16.48	+17 43.5	2.214	3.114	8.9	20.6
3 2	8 11.37	+17 53.7	2.287	3.108	12.0	20.8

19457 Robcastillo 1 27.3 69°.25 2°.8/29.4 18

12 23	8 57.50	+ 7 54.1	2.320	3.098	12.9	18.5
1 2	8 53.14	+ 8 3.2	2.243	3.109	10.1	18.4
1 12	8 47.01	+ 8 25.3	2.189	3.119	7.0	18.2
1 22	8 39.68	+ 8 59.1	2.163	3.130	3.9	18.0
2 1	8 31.89	+ 9 41.6	2.165	3.141	3.0	18.0
2 11	8 24.50	+10 29.0	2.198	3.152	5.5	18.1
2 21	8 18.27	+11 17.3	2.258	3.163	8.6	18.4
3 2	8 13.78	+12 3.0	2.344	3.174	11.4	18.6

453321 2008 WC_{18} 1 27.3 192°.50 2°.8/28.7 18

12 23	9 5.06	+10 36.1	1.788	2.576	15.7	22.5
1 2	8 59.47	+10 26.9	1.701	2.575	12.3	22.2
1 12	8 51.31	+10 31.0	1.637	2.574	8.4	22.0
1 22	8 41.28	+10 47.2	1.599	2.571	4.3	21.8
2 1	8 30.43	+11 12.4	1.590	2.568	3.3	21.7
2 11	8 20.05	+11 42.7	1.610	2.565	7.0	21.9
2 21	8 11.32	+12 14.0	1.657	2.561	11.2	22.1
3 2	8 5.09	+12 42.8	1.727	2.556	14.9	22.4

335665 2006 SA_{152} 1 27.3 124°.65 2°.2/28.8 17

12 23	8 57.92	+10 16.0	2.509	3.290	11.9	21.2
1 2	8 53.38	+10 18.9	2.423	3.293	9.3	21.0
1 12	8 47.14	+10 32.0	2.362	3.296	6.3	20.8
1 22	8 39.72	+10 54.2	2.328	3.299	3.3	20.6
2 1	8 31.84	+11 22.9	2.324	3.302	2.4	20.6
2 11	8 24.30	+11 55.1	2.351	3.305	5.1	20.8
2 21	8 17.82	+12 27.9	2.405	3.308	8.2	21.0
3 2	8 13.00	+12 58.4	2.486	3.311	11.0	21.2

245962 2006 SE_{59} 1 27.3 18°.16 1°.1/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.33	+21 58.1	2.093	2.905	12.9	19.6
1 2	8 57.03	+21 54.7	2.015	2.908	9.7	19.4
1 12	8 49.55	+21 53.8	1.961	2.911	6.1	19.2
1 22	8 40.58	+21 52.3	1.935	2.915	2.2	18.9
2 1	8 31.10	+21 47.2	1.939	2.919	2.4	18.9
2 11	8 22.18	+21 36.5	1.972	2.923	6.2	19.2
2 21	8 14.77	+21 19.5	2.032	2.928	9.9	19.4
3 2	8 9.53	+20 56.5	2.117	2.933	13.0	19.6

178882 2001 OH_{6} 1 27.3 167°.22 4°.1/30.3 18

12 23	9 0.39	+ 3 24.4	2.290	3.044	13.8	21.0
1 2	8 55.39	+ 3 36.6	2.202	3.048	11.1	20.8
1 12	8 48.48	+ 4 5.7	2.137	3.052	8.1	20.6
1 22	8 40.22	+ 4 50.8	2.099	3.056	5.2	20.5
2 1	8 31.39	+ 5 49.1	2.091	3.059	4.1	20.4
2 11	8 22.91	+ 6 56.2	2.112	3.061	6.1	20.5
2 21	8 15.60	+ 8 6.9	2.162	3.063	9.1	20.7
3 2	8 10.14	+ 9 16.2	2.238	3.064	12.0	20.9

312937 1993 RU_{14} 1 27.3 158°.39 3°.8/24.9 18

12 23	9 6.81	+28 56.0	2.267	3.074	12.2	21.2
1 2	9 0.38	+29 38.0	2.193	3.081	9.3	21.1
1 12	8 51.65	+30 18.7	2.145	3.088	6.3	20.9
1 22	8 41.34	+30 52.5	2.126	3.094	4.0	20.8
2 1	8 30.45	+31 14.3	2.137	3.099	4.7	20.8
2 11	8 20.14	+31 21.3	2.177	3.104	7.5	21.0
2 21	8 11.42	+31 13.5	2.245	3.108	10.5	21.2
3 2	8 5.01	+30 52.8	2.337	3.112	13.2	21.4

13967 1991 QJ 1 27.3 153°.84 1°.9/28.4 18

12 23	9 4.73	+10 53.5	1.870	2.657	15.2	19.0
1 2	8 59.04	+11 17.1	1.792	2.667	11.8	18.8
1 12	8 50.94	+11 55.2	1.736	2.675	7.8	18.6
1 22	8 41.12	+12 44.7	1.708	2.683	3.6	18.3
2 1	8 30.62	+13 41.0	1.709	2.690	2.5	18.3
2 11	8 20.64	+14 38.4	1.741	2.696	6.5	18.6
2 21	8 12.25	+15 32.0	1.800	2.701	10.5	18.8
3 2	8 6.25	+16 18.4	1.883	2.706	14.0	19.0

452795 2006 HW_{23} 1 27.3 317°.79 4°.2/29.3 18

12 23	9 0.35	+ 7 58.2	1.461	2.263	18.0	21.0
1 2	8 56.45	+ 7 47.4	1.377	2.256	14.3	20.8
1 12	8 49.70	+ 7 55.7	1.314	2.250	10.1	20.5
1 22	8 40.78	+ 8 22.7	1.274	2.243	5.8	20.2
2 1	8 30.87	+ 9 5.4	1.261	2.237	4.5	20.1
2 11	8 21.45	+ 9 58.0	1.274	2.231	8.1	20.3
2 21	8 13.83	+10 53.9	1.311	2.226	12.7	20.6
3 2	8 9.03	+11 47.2	1.371	2.221	16.8	20.8

172044 2001 XZ_{10} 1 27.3 108°.22 3°.2/24.8 18

12 23	9 0.20	+26 30.3	2.449	3.263	11.2	20.0
1 2	8 55.29	+27 27.7	2.378	3.271	8.5	19.8
1 12	8 48.42	+28 26.4	2.332	3.279	5.5	19.7
1 22	8 40.20	+29 21.2	2.315	3.286	3.3	19.5
2 1	8 31.45	+30 6.9	2.329	3.294	4.1	19.6
2 11	8 23.13	+30 40.2	2.372	3.301	6.8	19.8
2 21	8 16.09	+30 59.6	2.442	3.309	9.6	20.0
3 2	8 10.97	+31 5.7	2.536	3.316	12.1	20.2

158237 2001 SX_{314} 1 27.3 184°.45 3°.2/25.4 18

12 23	9 6.19	+23 38.9	1.749	2.566	14.8	20.9
1 2	9 0.60	+24 40.9	1.671	2.567	11.2	20.7
1 12	8 52.16	+25 48.6	1.617	2.567	7.2	20.4
1 22	8 41.62	+26 54.7	1.590	2.566	3.6	20.2
2 1	8 30.17	+27 51.2	1.593	2.565	4.6	20.3
2 11	8 19.27	+28 32.3	1.624	2.563	8.5	20.5
2 21	8 10.24	+28 55.7	1.681	2.561	12.5	20.7
3 2	8 4.01	+29 2.4	1.760	2.558	15.9	20.9

366900 2005 TM_{194} 1 27.3 148°.93 3°.1/29.1 18

12 23	9 0.34	+ 8 53.0	1.935	2.722	14.8	21.5
1 2	8 55.70	+ 8 51.3	1.851	2.723	11.6	21.3
1 12	8 48.84	+ 9 4.1	1.790	2.724	8.0	21.1
1 22	8 40.39	+ 9 29.9	1.755	2.725	4.4	20.9
2 1	8 31.28	+10 5.9	1.749	2.726	3.3	20.8
2 11	8 22.61	+10 47.8	1.772	2.727	6.4	21.0
2 21	8 15.35	+11 31.2	1.821	2.728	10.2	21.2
3 2	8 10.27	+12 12.1	1.895	2.728	13.5	21.4

492497 2014 NL_{60} 1 27.3 182°.89 2°.1/26.0 18

12 23	9 5.47	+22 24.4	2.088	2.895	13.1	22.8
1 2	8 59.56	+23 6.1	2.005	2.896	9.9	22.6
1 12	8 51.26	+23 52.4	1.948	2.896	6.2	22.3
1 22	8 41.25	+24 38.1	1.918	2.896	2.7	22.1
2 1	8 30.53	+25 17.6	1.919	2.895	3.3	22.1
2 11	8 20.27	+25 46.7	1.950	2.893	7.0	22.4
2 21	8 11.56	+26 3.5	2.008	2.890	10.6	22.6
3 2	8 5.17	+26 8.2	2.090	2.887	13.8	22.8

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
468202 2015 BH_{31}			1 27.3	12°.42	3°.9/30.4	18
	h m	° ′			°	m
12 23	8 56.66	+ 3 40.3	2.093	2.861	14.4	21.0
1 2	8 52.80	+ 4 5.2	2.006	2.862	11.6	20.8
1 12	8 46.97	+ 4 49.2	1.942	2.863	8.4	20.6
1 22	8 39.73	+ 5 51.0	1.904	2.864	5.2	20.4
2 1	8 31.88	+ 7 7.0	1.894	2.866	4.0	20.3
2 11	8 24.38	+ 8 31.4	1.914	2.867	6.2	20.5
2 21	8 18.10	+ 9 58.0	1.961	2.869	9.5	20.7
3 2	8 13.72	+11 21.1	2.035	2.871	12.6	20.9
201933 2004 DO_{45}			1 27.3	291°.23	4°.6/24.3	18
12 23	9 2.62	+31 21.6	2.268	3.083	12.0	19.9
1 2	8 57.50	+32 4.4	2.178	3.067	9.3	19.7
1 12	8 50.02	+32 45.3	2.112	3.052	6.5	19.5
1 22	8 40.83	+33 18.4	2.074	3.036	4.7	19.4
2 1	8 30.89	+33 38.2	2.065	3.020	5.5	19.4
2 11	8 21.35	+33 41.6	2.084	3.004	8.2	19.6
2 21	8 13.27	+33 28.4	2.130	2.989	11.1	19.7
3 2	8 7.45	+33 0.2	2.198	2.973	13.9	19.9
234377 2001 QL_{34}			1 27.3	141°.52	0°.7/26.9	18
12 23	9 8.97	+19 34.2	1.851	2.654	14.7	21.1
1 2	9 2.23	+19 49.3	1.779	2.667	11.1	20.9
1 12	8 52.90	+20 10.3	1.732	2.680	7.0	20.6
1 22	8 41.81	+20 32.7	1.712	2.691	2.4	20.4
2 1	8 30.11	+20 52.0	1.722	2.702	2.5	20.4
2 11	8 19.13	+21 4.6	1.761	2.712	6.9	20.7
2 21	8 9.99	+21 9.0	1.829	2.722	10.9	21.0
3 2	8 3.47	+21 5.2	1.920	2.730	14.3	21.2
186234 2001 XP_{93}			1 27.3	76°.75	1°.4/26.5	18
12 23	9 2.74	+20 18.1	1.786	2.604	14.6	20.8
1 2	8 57.68	+20 49.9	1.718	2.614	11.0	20.5
1 12	8 50.13	+21 28.3	1.672	2.624	6.8	20.3
1 22	8 40.86	+22 8.2	1.654	2.633	2.5	20.1
2 1	8 30.95	+22 43.9	1.664	2.643	2.9	20.1
2 11	8 21.69	+23 11.2	1.703	2.653	7.1	20.4
2 21	8 14.16	+23 27.9	1.768	2.663	11.1	20.7
3 2	8 9.13	+23 33.4	1.856	2.673	14.5	20.9
104272 2000 ES_{149}			1 27.3	172°.47	0°.4/26.9	18
12 23	8 59.03	+16 51.2	2.413	3.214	11.8	19.8
1 2	8 54.40	+17 36.9	2.328	3.215	8.9	19.6
1 12	8 47.89	+18 31.1	2.268	3.216	5.5	19.4
1 22	8 40.05	+19 29.7	2.237	3.217	1.9	19.1
2 1	8 31.64	+20 28.3	2.237	3.218	1.9	19.1
2 11	8 23.57	+21 22.2	2.267	3.219	5.6	19.4
2 21	8 16.64	+22 8.3	2.326	3.219	8.9	19.6
3 2	8 11.51	+22 44.8	2.410	3.219	11.8	19.8
473871 2016 EP_{136}			1 27.3	68°.91	3°.0/25.6	18
12 23	9 3.10	+25 16.1	1.941	2.760	13.5	20.8
1 2	8 57.92	+25 51.9	1.866	2.762	10.2	20.6
1 12	8 50.29	+26 29.8	1.814	2.763	6.6	20.4
1 22	8 40.92	+27 4.2	1.790	2.765	3.4	20.2
2 1	8 30.89	+27 29.7	1.794	2.766	4.1	20.2
2 11	8 21.42	+27 42.7	1.827	2.768	7.6	20.5
2 21	8 13.62	+27 42.1	1.887	2.770	11.2	20.7
3 2	8 8.25	+27 29.1	1.969	2.771	14.3	20.9
57901 Hitchens			1 27.3	33°.21	2°.6/26.4	18
12 23	9 7.58	+25 32.8	1.508	2.334	16.4	17.3
1 2	9 1.67	+25 26.5	1.444	2.343	12.4	17.1
1 12	8 52.73	+25 19.8	1.402	2.354	7.9	16.9
1 22	8 41.77	+25 7.7	1.386	2.364	3.5	16.6
2 1	8 30.21	+24 46.3	1.398	2.376	3.9	16.7
2 11	8 19.67	+24 14.1	1.438	2.388	8.3	17.0
2 21	8 11.42	+23 32.4	1.502	2.400	12.5	17.2
3 2	8 6.24	+22 43.7	1.589	2.413	16.2	17.5
494789 2006 UB_{61}			1 27.3	98°.27	4°.9/30.0	18
12 23	9 2.77	+ 4 52.8	1.872	2.641	15.9	21.7
1 2	8 57.42	+ 4 28.8	1.802	2.657	12.7	21.6
1 12	8 49.84	+ 4 21.6	1.754	2.673	9.3	21.4
1 22	8 40.73	+ 4 31.2	1.731	2.688	6.1	21.2
2 1	8 31.09	+ 4 55.8	1.736	2.703	5.0	21.2
2 11	8 22.02	+ 5 31.5	1.770	2.718	7.2	21.3
2 21	8 14.51	+ 6 13.4	1.831	2.732	10.4	21.6
3 2	8 9.25	+ 6 56.9	1.915	2.746	13.5	21.8
412922 2014 QL_{149}			1 27.3	232°.29	0°.1/27.3	17
12 23	9 4.43	+16 54.2	1.897	2.701	14.4	22.8
1 2	8 59.07	+17 16.5	1.802	2.690	11.0	22.5
1 12	8 51.15	+17 48.4	1.730	2.677	7.0	22.2
1 22	8 41.29	+18 26.2	1.685	2.665	2.5	21.9
2 1	8 30.51	+19 4.8	1.669	2.651	2.2	21.9
2 11	8 20.08	+19 39.6	1.684	2.637	6.9	22.2
2 21	8 11.18	+20 7.0	1.725	2.623	11.2	22.4
3 2	8 4.73	+20 25.4	1.790	2.607	14.9	22.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
285948 2001 RA_{20}			1 27.3	217°.13	2°.0/26.0	17
	h m	° ′			°	m
12 23	9 2.75	+24 42.5	2.604	3.408	10.9	20.8
1 2	8 57.09	+24 59.1	2.514	3.402	8.2	20.6
1 12	8 49.52	+25 16.7	2.449	3.396	5.2	20.4
1 22	8 40.62	+25 31.7	2.414	3.390	2.4	20.2
2 1	8 31.18	+25 40.8	2.409	3.383	2.9	20.3
2 11	8 22.12	+25 41.6	2.435	3.376	5.9	20.4
2 21	8 14.28	+25 33.5	2.489	3.369	8.9	20.6
3 2	8 8.30	+25 16.8	2.568	3.362	11.6	20.8
187238 2005 SH_{167}			1 27.3	72°.26	1°.8/28.6	18
12 23	9 0.92	+ 9 41.7	1.780	2.574	15.6	20.4
1 2	8 56.15	+10 28.9	1.718	2.597	12.0	20.2
1 12	8 49.09	+11 32.9	1.679	2.619	7.9	20.0
1 22	8 40.48	+12 49.3	1.666	2.641	3.6	19.8
2 1	8 31.33	+14 11.8	1.683	2.664	2.4	19.7
2 11	8 22.82	+15 33.4	1.729	2.686	6.4	20.0
2 21	8 15.91	+16 48.2	1.802	2.708	10.3	20.3
3 2	8 11.31	+17 52.3	1.900	2.730	13.7	20.6
57542 2001 TW_{18}			1 27.3	219°.61	5°.2/30.9	18
12 23	8 59.21	+ 1 23.5	2.086	2.839	15.0	19.5
1 2	8 54.78	+ 1 25.6	1.992	2.834	12.3	19.3
1 12	8 48.27	+ 1 47.3	1.920	2.829	9.2	19.1
1 22	8 40.23	+ 2 28.7	1.874	2.824	6.4	18.9
2 1	8 31.50	+ 3 27.6	1.855	2.818	5.2	18.8
2 11	8 23.07	+ 4 39.4	1.866	2.812	7.0	18.9
2 21	8 15.88	+ 5 58.0	1.904	2.806	10.0	19.1
3 2	8 10.66	+ 7 17.4	1.967	2.800	13.2	19.3
29578 1998 FU_{53}			1 27.3	73°.51	1°.5/26.4	18
12 23	9 1.64	+22 32.6	2.284	3.093	12.1	18.7
1 2	8 56.33	+22 50.1	2.214	3.106	9.0	18.5
1 12	8 49.04	+23 10.2	2.169	3.118	5.6	18.3
1 22	8 40.43	+23 29.2	2.152	3.131	2.3	18.1
2 1	8 31.39	+23 43.6	2.166	3.144	2.6	18.1
2 11	8 22.90	+23 50.8	2.209	3.156	6.0	18.4
2 21	8 15.79	+23 49.8	2.280	3.169	9.2	18.6
3 2	8 10.68	+23 40.7	2.375	3.181	12.0	18.8
146117 2000 QB_{251}			1 27.3	212°.95	2°.3/25.5	18
12 23	9 1.51	+21 4.5	2.145	2.956	12.7	20.1
1 2	8 56.66	+22 20.2	2.058	2.951	9.6	19.8
1 12	8 49.53	+23 43.9	1.996	2.946	6.0	19.6
1 22	8 40.70	+25 9.5	1.963	2.941	2.7	19.4
2 1	8 31.07	+26 29.9	1.961	2.935	3.6	19.4
2 11	8 21.75	+27 39.1	1.989	2.929	7.1	19.7
2 21	8 13.77	+28 33.3	2.044	2.922	10.7	19.9
3 2	8 7.94	+29 11.6	2.123	2.915	13.8	20.0
221155 2005 TK_{79}			1 27.3	219°.19	4°.0/24.9	18
12 23	9 7.43	+29 54.9	2.282	3.088	12.2	21.5
1 2	9 1.01	+30 28.7	2.193	3.079	9.4	21.3
1 12	8 52.18	+31 0.6	2.129	3.070	6.4	21.1
1 22	8 41.62	+31 25.0	2.094	3.060	4.2	20.9
2 1	8 30.33	+31 36.9	2.088	3.050	4.9	20.9
2 11	8 19.52	+31 33.5	2.113	3.039	7.7	21.1
2 21	8 10.26	+31 14.8	2.165	3.027	10.8	21.3
3 2	8 3.36	+30 43.1	2.240	3.015	13.6	21.4
380364 2002 TG_{125}			1 27.3	88°.36	0°.2/27.4	18
12 23	9 2.09	+17 38.0	2.223	3.024	12.6	20.8
1 2	8 56.67	+17 39.5	2.150	3.036	9.6	20.6
1 12	8 49.26	+17 46.9	2.101	3.048	6.0	20.4
1 22	8 40.52	+17 57.4	2.080	3.059	2.2	20.2
2 1	8 31.34	+18 8.3	2.089	3.071	1.8	20.2
2 11	8 22.68	+18 16.8	2.128	3.083	5.6	20.4
2 21	8 15.40	+18 21.3	2.196	3.094	9.1	20.7
3 2	8 10.13	+18 20.8	2.288	3.105	12.1	20.9
414437 2009 DO_{119}			1 27.3	231°.51	2°.1/26.3	18
12 23	9 5.73	+22 45.8	1.817	2.631	14.5	22.0
1 2	9 0.16	+23 9.9	1.730	2.624	11.0	21.8
1 12	8 51.86	+23 38.4	1.667	2.617	7.0	21.5
1 22	8 41.55	+24 5.9	1.631	2.609	2.9	21.2
2 1	8 30.38	+24 27.0	1.624	2.601	3.4	21.3
2 11	8 19.73	+24 37.8	1.645	2.593	7.7	21.5
2 21	8 10.83	+24 36.7	1.693	2.584	11.8	21.7
3 2	8 4.59	+24 24.3	1.764	2.575	15.4	21.9
160748 2000 SM_{35}			1 27.3	151°.69	2°.9/29.2	18
12 23	9 3.32	+ 7 52.9	1.983	2.758	14.9	20.8
1 2	8 57.86	+ 8 9.8	1.903	2.768	11.7	20.6
1 12	8 50.17	+ 8 42.6	1.845	2.777	8.0	20.4
1 22	8 40.90	+ 9 29.2	1.815	2.785	4.3	20.2
2 1	8 31.00	+10 25.6	1.815	2.792	3.2	20.1
2 11	8 21.56	+11 26.7	1.844	2.798	6.3	20.3
2 21	8 13.58	+12 27.2	1.901	2.804	10.0	20.6
3 2	8 7.80	+13 23.0	1.984	2.809	13.3	20.8

327011 2004 RZ_{95} 1 27.3 247.°62 5.°0/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 59.31	+ 2 5.2	2.198	2.950	14.3	21.2
1 2	8 54.83	+ 2 0.1	2.095	2.937	11.8	21.0
1 12	8 48.32	+ 2 12.7	2.014	2.923	8.9	20.7
1 22	8 40.28	+ 2 43.4	1.959	2.909	6.1	20.6
2 1	8 31.51	+ 3 30.6	1.932	2.895	5.1	20.5
2 11	8 22.95	+ 4 30.5	1.934	2.880	6.8	20.5
2 21	8 15.53	+ 5 38.1	1.964	2.865	9.9	20.7
3 2	8 10.01	+ 6 47.7	2.020	2.849	13.0	20.9

456700 2007 RU_{240} 1 27.3 113.°58 3.°3/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.32	+ 8 53.1	1.771	2.556	16.0	21.4
1 2	8 58.75	+ 8 48.2	1.701	2.571	12.6	21.2
1 12	8 50.76	+ 8 58.4	1.653	2.586	8.6	21.0
1 22	8 41.10	+ 9 22.4	1.631	2.600	4.7	20.8
2 1	8 30.86	+ 9 56.6	1.638	2.614	3.6	20.8
2 11	8 21.25	+10 36.6	1.673	2.628	6.8	21.0
2 21	8 13.32	+11 17.7	1.736	2.641	10.7	21.3
3 2	8 7.83	+11 56.0	1.822	2.653	14.1	21.5

426327 2012 UD_{139} 1 27.3 159.°89 3.°7/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.59	+30 28.2	2.706	3.512	10.5	21.5
1 2	8 56.94	+31 6.6	2.630	3.516	8.0	21.3
1 12	8 49.41	+31 42.9	2.581	3.520	5.5	21.1
1 22	8 40.60	+32 12.4	2.560	3.524	3.8	21.0
2 1	8 31.30	+32 31.3	2.569	3.527	4.4	21.1
2 11	8 22.45	+32 37.3	2.609	3.530	6.7	21.2
2 21	8 14.86	+32 30.1	2.676	3.532	9.2	21.4
3 2	8 9.15	+32 11.2	2.767	3.534	11.5	21.6

438694 2008 PZ_{19} 1 27.3 185.°49 0.°3/27.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 54.70	+15 43.6	3.865	4.651	8.0	22.4
1 2	8 50.48	+16 2.5	3.772	4.651	6.0	22.3
1 12	8 45.15	+16 26.2	3.707	4.650	3.8	22.1
1 22	8 39.06	+16 52.9	3.670	4.649	1.4	22.0
2 1	8 32.66	+17 20.8	3.666	4.648	1.1	21.9
2 11	8 26.46	+17 47.8	3.693	4.647	3.5	22.1
2 21	8 20.91	+18 12.3	3.751	4.645	5.8	22.3
3 2	8 16.43	+18 33.0	3.835	4.643	7.8	22.4

82192 2001 HX_{31} 1 27.3 188.°84 1.°9/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.87	+22 12.2	2.400	3.203	11.8	20.2
1 2	8 58.12	+22 57.8	2.313	3.202	8.9	20.0
1 12	8 50.30	+23 47.9	2.252	3.200	5.6	19.8
1 22	8 40.97	+24 37.7	2.220	3.198	2.4	19.6
2 1	8 30.99	+25 22.3	2.219	3.195	3.0	19.7
2 11	8 21.38	+25 57.7	2.249	3.191	6.3	19.9
2 21	8 13.05	+26 21.9	2.307	3.186	9.6	20.1
3 2	8 6.73	+26 34.5	2.390	3.181	12.4	20.2

148141 1999 VC_{113} 1 27.3 314.°92 5.°0/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.80	+25 37.6	1.262	2.105	17.9	19.9
1 2	8 59.89	+26 44.6	1.188	2.097	13.7	19.6
1 12	8 52.32	+27 58.2	1.135	2.088	9.0	19.3
1 22	8 41.89	+29 8.3	1.106	2.080	5.3	19.0
2 1	8 30.14	+30 3.6	1.102	2.072	6.6	19.1
2 11	8 19.09	+30 36.5	1.123	2.064	11.2	19.3
2 21	8 10.52	+30 44.7	1.167	2.057	15.9	19.6
3 2	8 5.63	+30 30.8	1.229	2.051	20.1	19.8

245049 2004 FU_{71} 1 27.3 311.°33 1.°5/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.86	+21 34.2	2.281	3.093	12.0	21.3
1 2	8 55.17	+22 3.7	2.197	3.091	9.0	21.1
1 12	8 48.46	+22 37.7	2.139	3.089	5.7	20.9
1 22	8 40.33	+23 12.1	2.108	3.087	2.2	20.6
2 1	8 31.61	+23 42.7	2.107	3.086	2.7	20.6
2 11	8 23.30	+24 6.0	2.136	3.084	6.1	20.9
2 21	8 16.27	+24 20.1	2.193	3.082	9.5	21.1
3 2	8 11.20	+24 24.6	2.273	3.081	12.5	21.3

493523 2015 FJ_{3} 1 27.3 139.°07 4.°7/24.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.59	+31 14.4	2.317	3.131	11.8	21.0
1 2	8 57.33	+32 10.8	2.245	3.134	9.1	20.8
1 12	8 49.85	+33 5.2	2.198	3.136	6.4	20.7
1 22	8 40.82	+33 51.5	2.179	3.139	4.7	20.6
2 1	8 31.18	+34 24.2	2.189	3.142	5.5	20.6
2 11	8 22.04	+34 40.4	2.228	3.144	8.0	20.8
2 21	8 14.37	+34 39.7	2.293	3.146	10.7	21.0
3 2	8 8.89	+34 23.9	2.381	3.148	13.2	21.1

29265 1993 FV_{18} 1 27.3 217.°55 2.°3/26.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.67	+21 44.7	1.786	2.601	14.7	19.4
1 2	9 0.24	+22 32.9	1.699	2.594	11.2	19.1
1 12	8 52.01	+23 28.3	1.636	2.586	7.1	18.9
1 22	8 41.68	+24 24.7	1.600	2.578	3.0	18.6
2 1	8 30.38	+25 15.1	1.593	2.569	3.7	18.6
2 11	8 19.52	+25 53.6	1.615	2.560	8.0	18.8
2 21	8 10.40	+26 17.6	1.663	2.550	12.2	19.1
3 2	8 3.99	+26 26.9	1.734	2.539	15.8	19.3

135498 2001 XR_{80} 1 27.3 105.°36 5.°0/22.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.76	+32 49.2	2.714	3.520	10.5	19.7
1 2	8 57.21	+34 24.0	2.657	3.539	8.1	19.5
1 12	8 49.67	+35 55.8	2.629	3.558	6.0	19.4
1 22	8 40.75	+37 18.3	2.630	3.577	5.0	19.4
2 1	8 31.26	+38 25.7	2.662	3.596	5.8	19.5
2 11	8 22.17	+39 14.7	2.723	3.614	7.8	19.6
2 21	8 14.36	+39 44.7	2.811	3.632	9.9	19.8
3 2	8 8.49	+39 57.3	2.922	3.649	11.8	20.0

105572 2000 RQ_{68} 1 27.3 114.°07 6.°9/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.31	+34 18.6	1.712	2.527	15.2	19.5
1 2	9 4.55	+35 23.9	1.656	2.542	11.9	19.3
1 12	8 54.62	+36 23.1	1.624	2.556	8.8	19.2
1 22	8 42.53	+37 6.8	1.617	2.570	6.9	19.1
2 1	8 29.76	+37 27.5	1.639	2.584	7.8	19.2
2 11	8 18.01	+37 22.9	1.688	2.597	10.5	19.4
2 21	8 8.64	+36 55.2	1.761	2.609	13.6	19.6
3 2	8 2.48	+36 9.5	1.855	2.621	16.4	19.8

426901 2013 WV_{69} 1 27.3 333.°88 3.°0/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.87	+25 29.3	2.151	2.969	12.4	20.9
1 2	8 56.12	+26 15.1	2.072	2.968	9.4	20.7
1 12	8 49.15	+27 3.3	2.018	2.967	6.1	20.5
1 22	8 40.60	+27 48.4	1.992	2.966	3.3	20.3
2 1	8 31.40	+28 25.0	1.995	2.965	4.1	20.3
2 11	8 22.66	+28 49.5	2.026	2.964	7.2	20.5
2 21	8 15.35	+29 0.3	2.085	2.963	10.5	20.7
3 2	8 10.21	+28 57.8	2.167	2.962	13.4	20.9

411194 2010 JT_{171} 1 27.3 236.°83 4.°9/24.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.11	+27 29.5	1.899	2.715	13.9	21.9
1 2	9 0.72	+28 55.3	1.808	2.701	10.7	21.6
1 12	8 52.44	+30 25.6	1.742	2.686	7.3	21.4
1 22	8 41.89	+31 51.8	1.704	2.671	5.0	21.2
2 1	8 30.18	+33 4.8	1.695	2.654	6.1	21.2
2 11	8 18.76	+33 57.8	1.715	2.637	9.5	21.4
2 21	8 9.01	+34 28.3	1.761	2.619	13.1	21.6
3 2	8 2.02	+34 37.8	1.828	2.601	16.4	21.8

10133 1993 GC_{1} 1 27.3 146.°75 2.°6/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.76	+22 38.6	1.775	2.589	14.8	17.7
1 2	9 0.88	+23 31.7	1.704	2.599	11.1	17.5
1 12	8 52.27	+24 30.3	1.658	2.607	7.0	17.3
1 22	8 41.73	+25 27.6	1.638	2.615	3.2	17.1
2 1	8 30.43	+26 16.5	1.648	2.623	3.9	17.1
2 11	8 19.79	+26 52.0	1.687	2.629	7.9	17.4
2 21	8 11.02	+27 12.1	1.752	2.635	11.9	17.6
3 2	8 4.96	+27 17.6	1.840	2.641	15.2	17.9

362360 2010 NW_{5} 1 27.3 182.°51 0.°4/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.09	+15 30.6	2.087	2.882	13.6	22.1
1 2	8 58.48	+15 51.5	2.001	2.883	10.3	21.9
1 12	8 50.61	+16 21.7	1.939	2.884	6.6	21.6
1 22	8 41.13	+16 57.9	1.905	2.884	2.5	21.4
2 1	8 30.96	+17 35.9	1.901	2.883	2.0	21.3
2 11	8 21.22	+18 11.5	1.927	2.881	6.1	21.6
2 21	8 12.90	+18 41.5	1.981	2.879	10.0	21.8
3 2	8 6.77	+19 4.0	2.060	2.876	13.3	22.0

493450 2014 WX_{383} 1 27.3 138.°25 4.°6/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.25	+29 4.1	2.155	2.968	12.6	21.4
1 2	8 59.46	+30 24.4	2.089	2.979	9.6	21.2
1 12	8 51.26	+31 44.6	2.049	2.990	6.6	21.0
1 22	8 41.36	+32 57.4	2.038	3.001	4.7	20.9
2 1	8 30.78	+33 55.9	2.056	3.011	5.6	21.0
2 11	8 20.74	+34 35.9	2.104	3.020	8.3	21.2
2 21	8 12.29	+34 56.4	2.178	3.029	11.2	21.4
3 2	8 6.23	+34 59.3	2.275	3.038	13.8	21.6

237299 2008 YR_{33} 1 27.3 230.°97 3.°5/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.56	+26 17.8	2.244	3.061	12.0	20.3
1 2	8 55.87	+27 21.1	2.165	3.060	9.1	20.1
1 12	8 49.00	+28 26.9	2.111	3.058	6.0	19.9
1 22	8 40.57	+29 29.2	2.086	3.056	3.6	19.8
2 1	8 31.46	+30 22.1	2.090	3.055	4.5	19.8
2 11	8 22.74	+31 1.2	2.123	3.053	7.4	20.0
2 21	8 15.38	+31 24.8	2.183	3.051	10.5	20.2
3 2	8 10.13	+31 33.1	2.266	3.049	13.3	20.4

248834 2006 SG_{367} 1 27.3 108.°55 3.°7/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.96	+28 21.8	1.910	2.721	14.1	20.5
1 2	9 2.97	+28 43.4	1.847	2.737	10.7	20.3
1 12	8 53.37	+29 2.8	1.808	2.752	7.0	20.1
1 22	8 42.05	+29 14.3	1.796	2.768	4.0	19.9
2 1	8 30.25	+29 13.4	1.814	2.783	4.6	20.0
2 11	8 19.32	+28 58.0	1.862	2.797	7.9	20.2
2 21	8 10.38	+28 29.3	1.936	2.811	11.3	20.5
3 2	8 4.13	+27 50.0	2.033	2.825	14.3	20.7

57126 2001 OM_{106} 1 27.3 168°.94 0°.1/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.84	+17 30.4	1.924	2.722	14.4	19.9
1 2	9 1.43	+17 40.1	1.842	2.727	11.0	19.7
1 12	8 52.51	+17 57.2	1.785	2.731	6.9	19.5
1 22	8 41.81	+18 18.1	1.755	2.735	2.5	19.2
2 1	8 30.42	+18 38.7	1.756	2.738	2.1	19.2
2 11	8 19.60	+18 55.4	1.787	2.740	6.6	19.4
2 21	8 10.46	+19 5.9	1.845	2.741	10.7	19.7
3 2	8 3.80	+19 9.5	1.928	2.741	14.1	19.9

95988 2004 NJ_4 1 27.3 120°.45 7°.1/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.88	+ 1 14.5	1.923	2.659	16.6	19.3
1 2	9 2.70	+ 0 0.4	1.852	2.679	13.7	19.2
1 12	8 53.15	− 0 56.9	1.803	2.698	10.6	19.0
1 22	8 42.00	− 1 34.8	1.781	2.716	8.0	18.9
2 1	8 30.30	− 1 52.3	1.788	2.734	7.1	18.9
2 11	8 19.25	− 1 51.2	1.823	2.750	8.7	19.0
2 21	8 9.89	− 1 35.3	1.886	2.766	11.3	19.2
3 2	8 2.94	− 1 9.7	1.973	2.781	14.1	19.4

412149 2013 GE_{71} 1 27.3 286°.61 1°.1/26.8 14 C

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.03	+19 14.0	1.582	2.404	15.9	21.9
1 2	8 58.58	+19 39.3	1.490	2.388	12.2	21.6
1 12	8 51.17	+20 14.0	1.420	2.372	7.7	21.3
1 22	8 41.47	+20 53.3	1.376	2.356	2.8	20.9
2 1	8 30.64	+21 30.9	1.360	2.340	3.0	20.9
2 11	8 20.22	+22 1.2	1.371	2.325	8.1	21.2
2 21	8 11.61	+22 20.7	1.407	2.309	12.9	21.4
3 2	8 5.89	+22 28.3	1.465	2.293	17.1	21.6

213613 2002 PS_{169} 1 27.3 288°.17 1°.7/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.88	+21 56.2	1.636	2.457	15.5	20.4
1 2	8 59.79	+22 10.4	1.551	2.449	11.8	20.1
1 12	8 51.79	+22 29.7	1.490	2.441	7.5	19.8
1 22	8 41.64	+22 49.0	1.454	2.433	2.9	19.5
2 1	8 30.57	+23 2.9	1.446	2.426	3.3	19.5
2 11	8 20.07	+23 7.6	1.466	2.418	8.0	19.8
2 21	8 11.47	+23 1.5	1.512	2.410	12.4	20.0
3 2	8 5.72	+22 45.0	1.580	2.403	16.3	20.3

54612 2000 RA_{68} 1 27.3 217°.61 3°.8/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.12	+28 52.8	1.992	2.804	13.5	18.8
1 2	9 1.76	+29 11.6	1.910	2.800	10.4	18.6
1 12	8 52.76	+29 28.4	1.852	2.797	6.9	18.4
1 22	8 41.92	+29 37.4	1.822	2.793	4.1	18.2
2 1	8 30.38	+29 33.9	1.822	2.789	4.7	18.2
2 11	8 19.49	+29 15.6	1.850	2.785	8.0	18.4
2 21	8 10.40	+28 43.4	1.905	2.781	11.5	18.6
3 2	8 3.94	+27 59.8	1.984	2.776	14.6	18.8

208220 2000 SL_{120} 1 27.3 104°.81 1°.3/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.50	+19 31.0	1.717	2.528	15.3	20.8
1 2	9 0.55	+20 10.2	1.655	2.548	11.5	20.6
1 12	8 51.98	+20 56.9	1.618	2.568	7.1	20.4
1 22	8 41.62	+21 45.2	1.607	2.586	2.6	20.2
2 1	8 30.68	+22 28.9	1.625	2.605	2.9	20.2
2 11	8 20.53	+23 3.2	1.672	2.623	7.3	20.5
2 21	8 12.27	+23 25.8	1.746	2.640	11.3	20.8
3 2	8 6.69	+23 36.6	1.844	2.657	14.7	21.1

444995 2008 GV_{32} 1 27.3 156°.79 3°.6/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.85	+24 44.4	1.817	2.629	14.6	22.1
1 2	9 2.50	+25 52.0	1.746	2.638	11.0	21.9
1 12	8 53.34	+27 3.6	1.700	2.647	7.1	21.7
1 22	8 42.16	+28 11.3	1.681	2.655	3.9	21.5
2 1	8 30.17	+29 7.5	1.692	2.661	4.8	21.6
2 11	8 18.83	+29 46.7	1.733	2.667	8.5	21.8
2 21	8 9.39	+30 7.5	1.800	2.672	12.2	22.0
3 2	8 2.74	+30 11.4	1.889	2.676	15.4	22.3

274930 2009 SH_{185} 1 27.3 101°.62 1°.4/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.52	+21 32.1	1.932	2.746	13.8	21.3
1 2	8 58.21	+21 50.0	1.855	2.749	10.4	21.1
1 12	8 50.51	+22 12.3	1.802	2.752	6.5	20.9
1 22	8 41.12	+22 34.6	1.776	2.755	2.5	20.6
2 1	8 31.10	+22 52.6	1.779	2.758	2.8	20.6
2 11	8 21.65	+23 2.9	1.811	2.761	6.8	20.9
2 21	8 13.82	+23 3.9	1.870	2.764	10.7	21.1
3 2	8 8.36	+22 55.9	1.953	2.767	14.0	21.4

143230 2002 YK_{18} 1 27.3 55°.92 1°.4/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.93	+14 29.8	1.633	2.443	16.1	19.6
1 2	8 58.00	+14 27.4	1.562	2.451	12.3	19.4
1 12	8 50.47	+14 36.2	1.514	2.460	8.0	19.1
1 22	8 41.12	+14 53.3	1.492	2.470	3.3	18.9
2 1	8 31.12	+15 15.1	1.497	2.479	2.4	18.8
2 11	8 21.79	+15 37.1	1.531	2.489	7.0	19.1
2 21	8 14.26	+15 56.2	1.590	2.498	11.3	19.4
3 2	8 9.34	+16 10.1	1.673	2.508	14.9	19.6

95714 2003 AB_{80} 1 27.3 256°.76 0°.7/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 0.44	+16 19.7	2.053	2.859	13.4	20.4
1 2	8 56.00	+17 19.7	1.956	2.845	10.2	20.2
1 12	8 49.25	+18 32.1	1.882	2.831	6.4	19.9
1 22	8 40.75	+19 52.0	1.837	2.817	2.2	19.6
2 1	8 31.36	+21 13.0	1.822	2.803	2.4	19.6
2 11	8 22.21	+22 28.5	1.837	2.788	6.7	19.8
2 21	8 14.34	+23 33.7	1.879	2.773	10.6	20.1
3 2	8 8.63	+24 25.6	1.946	2.758	14.1	20.3

188483 2004 PP_4 1 27.3 89°.79 4°.3/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.52	+ 2 51.9	2.210	2.961	14.3	20.6
1 2	8 56.14	+ 3 1.6	2.147	2.991	11.4	20.4
1 12	8 48.92	+ 3 28.5	2.107	3.020	8.3	20.3
1 22	8 40.49	+ 4 11.1	2.093	3.048	5.4	20.2
2 1	8 31.70	+ 5 6.4	2.109	3.076	4.3	20.1
2 11	8 23.44	+ 6 9.7	2.155	3.103	6.1	20.3
2 21	8 16.50	+ 7 15.8	2.230	3.130	8.9	20.5
3 2	8 11.46	+ 8 20.2	2.330	3.156	11.6	20.7

495509 2014 UR_{198} 1 27.3 81°.52 5°.6/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.98	+ 3 54.4	1.797	2.566	16.4	21.0
1 2	8 57.04	+ 3 19.1	1.722	2.575	13.3	20.8
1 12	8 49.77	+ 3 1.4	1.669	2.584	9.9	20.6
1 22	8 40.87	+ 3 2.2	1.640	2.594	6.8	20.5
2 1	8 31.34	+ 3 20.3	1.639	2.603	5.7	20.4
2 11	8 22.36	+ 3 52.2	1.666	2.612	7.7	20.5
2 21	8 14.94	+ 4 33.0	1.719	2.621	10.9	20.8
3 2	8 9.82	+ 5 17.2	1.796	2.631	14.1	21.0

145584 2006 PT_{14} 1 27.3 183°.22 1°.0/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.06	+19 7.2	2.146	2.948	13.0	20.8
1 2	8 58.47	+19 45.1	2.061	2.949	9.8	20.6
1 12	8 50.64	+20 30.1	2.001	2.949	6.1	20.3
1 22	8 41.19	+21 17.8	1.969	2.948	2.2	20.1
2 1	8 31.06	+22 3.0	1.967	2.947	2.4	20.1
2 11	8 21.33	+22 41.3	1.996	2.945	6.4	20.3
2 21	8 13.02	+23 10.1	2.053	2.943	10.1	20.6
3 2	8 6.89	+23 28.3	2.134	2.940	13.2	20.8

125277 2001 VL_{13} 1 27.3 120°.28 3°.0/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.77	+24 32.2	1.636	2.454	15.7	20.0
1 2	9 2.54	+25 7.6	1.571	2.467	11.8	19.8
1 12	8 53.36	+25 45.6	1.529	2.479	7.5	19.5
1 22	8 42.16	+26 19.7	1.514	2.490	3.6	19.3
2 1	8 30.27	+26 43.3	1.527	2.501	4.3	19.4
2 11	8 19.24	+26 52.6	1.569	2.512	8.4	19.7
2 21	8 10.33	+26 47.3	1.636	2.522	12.4	19.9
3 2	8 4.39	+26 29.2	1.726	2.532	15.8	20.2

189832 2002 XL_{25} 1 27.3 9°.31 2°.8/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.26	+24 1.7	1.173	2.016	19.0	19.4
1 2	9 1.65	+24 9.7	1.108	2.016	14.5	19.2
1 12	8 53.30	+24 21.2	1.063	2.018	9.2	18.9
1 22	8 42.25	+24 29.3	1.041	2.020	3.9	18.6
2 1	8 30.19	+24 27.3	1.044	2.022	4.4	18.6
2 11	8 19.19	+24 11.8	1.072	2.026	9.8	18.9
2 21	8 10.90	+23 42.9	1.123	2.030	14.9	19.2
3 2	8 6.32	+23 3.3	1.193	2.035	19.3	19.5

426069 2012 CC_{18} 1 27.3 273°.08 14°.7/23.3 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 26.79	+46 50.2	1.148	1.957	21.5	20.9
1 2	9 19.12	+48 3.9	1.085	1.948	18.6	20.7
1 12	9 5.23	+48 56.5	1.039	1.939	16.0	20.5
1 22	8 46.63	+49 8.3	1.014	1.930	14.8	20.4
2 1	8 26.46	+48 24.6	1.011	1.921	15.6	20.4
2 11	8 8.54	+46 45.1	1.030	1.912	18.1	20.5
2 21	7 55.59	+44 22.4	1.069	1.902	21.5	20.7
3 2	7 48.68	+41 34.4	1.124	1.893	24.8	20.9

203619 2002 EO_{120} 1 27.3 45°.57 2°.4/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.21	+22 38.9	1.171	2.011	19.2	19.9
1 2	9 1.93	+22 58.4	1.125	2.032	14.4	19.7
1 12	8 53.16	+23 22.9	1.100	2.054	9.0	19.5
1 22	8 42.08	+23 45.4	1.098	2.077	3.6	19.2
2 1	8 30.44	+23 59.0	1.122	2.101	4.1	19.3
2 11	8 20.13	+23 59.8	1.171	2.125	9.2	19.7
2 21	8 12.55	+23 47.7	1.244	2.149	14.0	20.0
3 2	8 8.46	+23 24.6	1.337	2.174	17.9	20.3

135500 2001 XZ_{89} 1 27.3 320°.52 0°.4/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.67	+16 20.3	1.786	2.598	14.8	19.9
1 2	8 57.03	+16 31.9	1.704	2.595	11.3	19.6
1 12	8 49.91	+16 53.1	1.644	2.592	7.2	19.4
1 22	8 40.97	+17 20.6	1.610	2.590	2.7	19.1
2 1	8 31.28	+17 50.0	1.605	2.587	2.2	19.0
2 11	8 22.08	+18 17.0	1.628	2.585	6.8	19.3
2 21	8 14.48	+18 38.4	1.678	2.583	11.0	19.6
3 2	8 9.32	+18 52.3	1.751	2.581	14.7	19.8

267753 2003 JK_{17} 1 27.3 203°.50 3°.7/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.81	+27 12.2	2.401	3.211	11.5	21.1
1 2	8 57.52	+28 21.9	2.316	3.207	8.8	21.0
1 12	8 50.06	+29 33.7	2.258	3.202	5.9	20.8
1 22	8 41.01	+30 41.4	2.229	3.197	3.8	20.6
2 1	8 31.24	+31 39.0	2.230	3.191	4.7	20.7
2 11	8 21.79	+32 22.2	2.261	3.185	7.4	20.8
2 21	8 13.63	+32 49.2	2.320	3.179	10.4	21.0
3 2	8 7.54	+33 0.4	2.402	3.172	13.0	21.2

307636 2003 SB_{116} 1 27.3 141°.58 3°.3/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.52	+ 8 42.3	1.853	2.636	15.5	21.1
1 2	8 58.19	+ 8 37.7	1.775	2.644	12.2	20.9
1 12	8 50.50	+ 8 47.9	1.719	2.652	8.4	20.7
1 22	8 41.16	+ 9 11.6	1.690	2.659	4.6	20.5
2 1	8 31.15	+ 9 45.9	1.689	2.665	3.5	20.4
2 11	8 21.67	+10 26.2	1.717	2.671	6.7	20.6
2 21	8 13.74	+11 8.1	1.772	2.677	10.5	20.8
3 2	8 8.14	+11 47.6	1.852	2.683	13.9	21.1

500643 2012 VO_{5} 1 27.3 189°.67 3°.7/24.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.48	+29 50.0	2.542	3.351	11.0	21.4
1 2	8 57.06	+30 29.2	2.462	3.351	8.4	21.3
1 12	8 49.63	+31 7.0	2.409	3.350	5.7	21.1
1 22	8 40.81	+31 38.3	2.384	3.349	3.9	21.0
2 1	8 31.45	+31 59.0	2.389	3.348	4.5	21.0
2 11	8 22.53	+32 6.3	2.423	3.347	7.0	21.2
2 21	8 14.91	+32 0.1	2.484	3.346	9.7	21.3
3 2	8 9.27	+31 41.4	2.570	3.344	12.1	21.5

307350 2002 RB_{183} 1 27.3 114°.01 1°.6/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.04	+14 20.1	1.963	2.753	14.5	21.1
1 2	9 0.58	+14 3.8	1.893	2.770	11.1	20.9
1 12	8 51.84	+13 55.9	1.846	2.787	7.2	20.7
1 22	8 41.58	+13 54.6	1.827	2.803	3.2	20.5
2 1	8 30.83	+13 57.4	1.838	2.819	2.4	20.4
2 11	8 20.75	+14 1.7	1.879	2.834	6.2	20.7
2 21	8 12.33	+14 5.4	1.949	2.849	10.0	21.0
3 2	8 6.23	+14 7.0	2.042	2.863	13.2	21.2

224455 2005 VR_{27} 1 27.3 239°.18 7°.1/22.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.26	+36 45.2	2.086	2.896	13.1	20.7
1 2	9 1.45	+37 57.9	2.007	2.886	10.5	20.5
1 12	8 52.81	+39 5.3	1.953	2.876	8.2	20.3
1 22	8 42.04	+39 58.9	1.926	2.866	7.1	20.2
2 1	8 30.35	+40 31.5	1.926	2.856	8.0	20.3
2 11	8 19.19	+40 39.4	1.954	2.845	10.3	20.4
2 21	8 9.87	+40 23.4	2.006	2.834	13.0	20.5
3 2	8 3.32	+39 47.2	2.080	2.823	15.6	20.7

226946 2004 TN_{355} 1 27.3 145°.53 5°.4/23.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.52	+33 40.5	2.410	3.217	11.6	20.8
1 2	8 59.54	+34 50.5	2.345	3.226	9.1	20.6
1 12	8 51.28	+35 56.7	2.305	3.236	6.7	20.5
1 22	8 41.43	+36 52.5	2.294	3.244	5.4	20.4
2 1	8 30.97	+37 32.1	2.312	3.252	6.2	20.5
2 11	8 21.04	+37 52.7	2.360	3.260	8.4	20.6
2 21	8 12.63	+37 54.4	2.433	3.267	10.8	20.8
3 2	8 6.48	+37 39.4	2.529	3.273	13.1	21.0

109509 2001 QY_{234} 1 27.3 119°.55 1°.4/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.03	+20 45.6	1.940	2.751	13.8	20.5
1 2	8 58.56	+21 15.5	1.868	2.761	10.4	20.3
1 12	8 50.72	+21 51.0	1.820	2.770	6.5	20.1
1 22	8 41.24	+22 27.2	1.800	2.779	2.5	19.9
2 1	8 31.15	+22 59.1	1.809	2.788	2.8	19.9
2 11	8 21.66	+23 22.8	1.847	2.797	6.8	20.2
2 21	8 13.79	+23 36.3	1.913	2.805	10.6	20.4
3 2	8 8.28	+23 39.5	2.002	2.813	13.8	20.6

373863 2003 SA_{2} 1 27.4 151°.57 0°.4/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.42	+18 23.7	2.226	3.030	12.5	21.9
1 2	8 56.35	+18 45.1	2.144	3.033	9.5	21.7
1 12	8 49.24	+19 12.9	2.088	3.036	5.9	21.5
1 22	8 40.71	+19 43.8	2.059	3.039	2.1	21.2
2 1	8 31.60	+20 13.7	2.060	3.042	2.0	21.2
2 11	8 22.93	+20 39.1	2.092	3.044	5.9	21.5
2 21	8 15.59	+20 57.8	2.151	3.047	9.4	21.7
3 2	8 10.24	+21 8.7	2.235	3.049	12.4	21.9

378903 2008 UX_{48} 1 27.4 27°.69 1°.9/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.71	+12 43.5	1.819	2.623	14.9	21.0
1 2	8 55.37	+12 38.8	1.746	2.631	11.5	20.8
1 12	8 48.75	+12 45.7	1.695	2.638	7.6	20.6
1 22	8 40.55	+13 2.1	1.671	2.647	3.5	20.4
2 1	8 31.77	+13 24.9	1.675	2.655	2.5	20.3
2 11	8 23.55	+13 50.2	1.707	2.665	6.4	20.6
2 21	8 16.86	+14 14.6	1.765	2.674	10.3	20.8
3 2	8 12.42	+14 35.2	1.847	2.684	13.7	21.1

142539 2002 TD_{51} 1 27.4 110°.66 9°.0/21.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.08	+42 40.3	2.033	2.828	13.9	20.5
1 2	9 5.87	+44 14.8	1.990	2.849	11.6	20.4
1 12	8 55.50	+45 36.9	1.971	2.869	9.7	20.3
1 22	8 42.96	+46 36.9	1.979	2.888	9.0	20.3
2 1	8 29.73	+47 8.1	2.013	2.907	9.8	20.4
2 11	8 17.50	+47 8.8	2.074	2.926	11.6	20.5
2 21	8 7.62	+46 42.3	2.157	2.944	13.7	20.7
3 2	8 0.95	+45 54.7	2.261	2.961	15.6	20.9

380693 2005 JY_{35} 1 27.4 316°.53 3°.0/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.68	+24 26.9	2.210	3.027	12.1	20.6
1 2	8 55.26	+25 27.4	2.129	3.025	9.2	20.4
1 12	8 48.69	+26 31.9	2.073	3.022	5.9	20.2
1 22	8 40.56	+27 34.8	2.046	3.020	3.2	20.0
2 1	8 31.77	+28 30.0	2.048	3.017	4.0	20.0
2 11	8 23.34	+29 13.0	2.079	3.015	7.1	20.2
2 21	8 16.25	+29 41.7	2.137	3.013	10.4	20.4
3 2	8 11.23	+29 55.8	2.218	3.011	13.2	20.6

200825 2001 XN_{219} 1 27.4 52°.75 2°.1/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.27	+14 6.6	1.357	2.174	18.3	20.2
1 2	9 0.24	+13 48.9	1.290	2.182	14.2	20.0
1 12	8 52.12	+13 43.9	1.244	2.191	9.3	19.7
1 22	8 41.82	+13 49.2	1.223	2.200	4.1	19.4
2 1	8 30.73	+14 1.4	1.228	2.209	3.0	19.4
2 11	8 20.49	+14 15.9	1.260	2.219	7.9	19.7
2 21	8 12.44	+14 29.3	1.316	2.228	12.8	20.0
3 2	8 7.49	+14 38.8	1.394	2.238	16.9	20.3

466881 2015 DO_{16} 1 27.4 162°.18 0°.7/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.04	+14 34.7	2.400	3.193	12.1	21.8
1 2	8 55.18	+14 52.4	2.315	3.196	9.2	21.7
1 12	8 48.46	+15 18.7	2.255	3.199	5.9	21.5
1 22	8 40.45	+15 51.0	2.223	3.201	2.3	21.2
2 1	8 31.92	+16 25.9	2.221	3.203	1.7	21.2
2 11	8 23.74	+16 59.9	2.250	3.205	5.3	21.4
2 21	8 16.74	+17 30.2	2.307	3.207	8.6	21.6
3 2	8 11.53	+17 54.9	2.389	3.208	11.6	21.8

246966 1999 TX_{79} 1 27.4 194°.39 0°.9/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.63	+19 7.0	2.062	2.865	13.4	22.1
1 2	8 59.04	+19 40.2	1.975	2.863	10.2	21.9
1 12	8 51.10	+20 20.7	1.912	2.861	6.4	21.7
1 22	8 41.44	+21 4.0	1.878	2.857	2.3	21.4
2 1	8 31.04	+21 45.1	1.873	2.853	2.5	21.4
2 11	8 21.06	+22 19.4	1.899	2.849	6.6	21.7
2 21	8 12.54	+22 44.3	1.952	2.844	10.4	21.9
3 2	8 6.29	+22 58.9	2.030	2.838	13.7	22.1

302469 2002 EG_{148} 1 27.4 271°.31 1°.8/28.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.60	+11 39.0	1.671	2.474	16.1	21.5
1 2	8 57.35	+11 59.7	1.574	2.458	12.6	21.2
1 12	8 50.38	+12 36.9	1.498	2.441	8.3	20.9
1 22	8 41.29	+13 28.0	1.448	2.425	3.7	20.6
2 1	8 31.12	+14 28.0	1.426	2.408	2.6	20.5
2 11	8 21.22	+15 30.7	1.433	2.391	7.3	20.7
2 21	8 12.89	+16 29.8	1.465	2.374	12.0	20.9
3 2	8 7.16	+17 21.0	1.520	2.357	16.2	21.1

86772 2000 GK_{88} 1 27.4 184°.93 3°.0/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.36	+ 8 10.7	1.806	2.589	15.8	20.0
1 2	8 58.28	+ 8 26.1	1.720	2.589	12.5	19.8
1 12	8 50.72	+ 8 58.9	1.656	2.589	8.6	19.5
1 22	8 41.34	+ 9 47.0	1.618	2.588	4.6	19.3
2 1	8 31.14	+10 46.5	1.609	2.587	3.3	19.2
2 11	8 21.36	+11 51.4	1.629	2.585	6.8	19.4
2 21	8 13.13	+12 55.7	1.677	2.583	10.9	19.7
3 2	8 7.29	+13 54.7	1.748	2.579	14.6	19.9

373276 2012 HU_{35} 1 27.4 301°.50 1°.9/28.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.28	+12 39.6	1.728	2.535	15.5	21.5
1 2	8 56.20	+12 43.2	1.633	2.519	12.1	21.2
1 12	8 49.56	+13 0.0	1.560	2.504	8.0	20.9
1 22	8 40.97	+13 28.1	1.512	2.489	3.6	20.6
2 1	8 31.43	+14 3.7	1.493	2.474	2.6	20.5
2 11	8 22.21	+14 42.0	1.501	2.459	7.0	20.8
2 21	8 14.52	+15 18.5	1.535	2.445	11.5	21.0
3 2	8 9.30	+15 49.8	1.592	2.431	15.4	21.2

132097 2002 CE_{202} 1 27.4 240°.43 1°.5/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.98	+20 27.2	1.814	2.627	14.6	21.0
1 2	8 59.75	+21 1.1	1.722	2.615	11.1	20.8
1 12	8 51.79	+21 42.5	1.653	2.603	7.0	20.5
1 22	8 41.76	+22 26.4	1.611	2.590	2.7	20.2
2 1	8 30.75	+23 6.6	1.598	2.577	3.1	20.2
2 11	8 20.13	+23 37.9	1.614	2.563	7.6	20.4
2 21	8 11.15	+23 57.6	1.656	2.549	11.9	20.6
3 2	8 4.79	+24 5.0	1.721	2.534	15.6	20.9

2720 Pyotr Pervyj 1 27.4 116°.99 0°.5/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.20	+17 3.7	1.754	2.560	15.3	18.2
1 2	9 0.33	+17 42.1	1.689	2.578	11.6	18.0
1 12	8 51.90	+18 30.3	1.647	2.595	7.2	17.8
1 22	8 41.70	+19 23.1	1.632	2.612	2.5	17.5
2 1	8 30.89	+20 14.3	1.647	2.628	2.4	17.5
2 11	8 20.78	+20 58.6	1.691	2.643	7.0	17.9
2 21	8 12.48	+21 32.8	1.762	2.658	11.0	18.1
3 2	8 6.77	+21 55.7	1.856	2.672	14.5	18.4

245907 2006 QY_{114} 1 27.4 160°.95 0°.5/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.51	+17 6.2	2.667	3.456	11.1	20.7
1 2	8 56.79	+16 56.1	2.580	3.459	8.4	20.5
1 12	8 49.36	+16 50.6	2.519	3.463	5.4	20.3
1 22	8 40.75	+16 48.0	2.487	3.466	2.0	20.1
2 1	8 31.71	+16 46.1	2.486	3.468	1.6	20.1
2 11	8 23.06	+16 43.4	2.517	3.471	4.9	20.3
2 21	8 15.54	+16 38.5	2.577	3.473	8.0	20.5
3 2	8 9.72	+16 30.8	2.663	3.475	10.7	20.7

298782 2004 PX_{44} 1 27.4 208°.23 2°.8/26.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.92	+24 8.6	1.739	2.554	15.0	21.2
1 2	9 2.02	+24 41.5	1.656	2.550	11.4	20.9
1 12	8 53.21	+25 18.0	1.596	2.546	7.3	20.7
1 22	8 42.25	+25 51.8	1.564	2.540	3.4	20.4
2 1	8 30.37	+26 16.8	1.560	2.535	4.1	20.5
2 11	8 19.08	+26 28.4	1.585	2.529	8.2	20.7
2 21	8 9.70	+26 25.6	1.635	2.522	12.4	20.9
3 2	8 3.17	+26 9.8	1.709	2.515	16.0	21.1

32032 Askandola 1 27.4 186°.81 1°.8/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.54	+12 2.3	1.630	2.432	16.4	19.4
1 2	8 58.68	+12 20.6	1.548	2.432	12.7	19.1
1 12	8 51.10	+12 54.2	1.488	2.432	8.4	18.9
1 22	8 41.50	+13 40.2	1.454	2.431	3.7	18.6
2 1	8 31.03	+14 33.4	1.449	2.430	2.6	18.5
2 11	8 21.06	+15 27.6	1.471	2.429	7.2	18.8
2 21	8 12.83	+16 17.6	1.520	2.427	11.7	19.0
3 2	8 7.27	+16 59.6	1.591	2.425	15.7	19.3

429280 2010 CB_{125} 1 27.4 27°.08 0°.4/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.41	+15 40.4	2.077	2.882	13.3	21.4
1 2	8 54.99	+16 0.2	1.996	2.884	10.1	21.2
1 12	8 48.48	+16 29.2	1.939	2.886	6.4	20.9
1 22	8 40.50	+17 4.2	1.909	2.889	2.4	20.7
2 1	8 31.93	+17 41.2	1.909	2.891	1.9	20.6
2 11	8 23.78	+18 16.1	1.938	2.894	5.9	20.9
2 21	8 16.98	+18 45.8	1.994	2.897	9.6	21.1
3 2	8 12.21	+19 8.3	2.075	2.900	12.8	21.4

53621 2000 CO_{93} 1 27.4 293°.01 1°.5/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.53	+18 47.9	1.390	2.220	17.3	18.8
1 2	8 58.63	+19 32.2	1.304	2.207	13.2	18.5
1 12	8 51.47	+20 29.6	1.239	2.193	8.3	18.1
1 22	8 41.75	+21 33.8	1.199	2.179	3.1	17.8
2 1	8 30.76	+22 36.4	1.186	2.166	3.5	17.8
2 11	8 20.21	+23 29.3	1.199	2.153	9.0	18.1
2 21	8 11.69	+24 7.3	1.236	2.140	14.2	18.3
3 2	8 6.38	+24 29.0	1.294	2.127	18.6	18.6

51127 2000 HH_{37} 1 27.4 330°.65 1°.5/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.51	+10 27.5	2.101	2.894	13.6	19.1
1 2	8 53.60	+11 10.3	2.012	2.890	10.5	18.9
1 12	8 47.66	+12 8.2	1.946	2.887	6.9	18.7
1 22	8 40.23	+13 18.0	1.908	2.884	3.1	18.4
2 1	8 32.14	+14 34.9	1.900	2.881	2.1	18.3
2 11	8 24.36	+15 52.8	1.921	2.878	5.8	18.6
2 21	8 17.80	+17 6.4	1.970	2.876	9.6	18.8
3 2	8 13.19	+18 11.5	2.044	2.874	12.9	19.0

229140 2004 RQ_{292} 1 27.4 162°.81 1°.5/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.26	+21 19.5	2.563	3.364	11.2	21.7
1 2	8 56.79	+22 2.2	2.482	3.370	8.4	21.5
1 12	8 49.46	+22 49.3	2.428	3.376	5.2	21.3
1 22	8 40.82	+23 36.6	2.402	3.381	2.1	21.1
2 1	8 31.66	+24 19.7	2.408	3.385	2.6	21.1
2 11	8 22.87	+24 55.2	2.445	3.389	5.7	21.3
2 21	8 15.26	+25 20.9	2.510	3.392	8.8	21.5
3 2	8 9.47	+25 36.5	2.601	3.395	11.5	21.7

451716 2013 CE_{171} 1 27.4 7°.91 1°.5/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.86	+14 20.8	1.207	2.040	19.2	21.2
1 2	8 57.36	+14 21.2	1.139	2.040	14.8	21.0
1 12	8 50.57	+14 37.2	1.090	2.041	9.6	20.7
1 22	8 41.37	+15 5.3	1.065	2.043	3.9	20.4
2 1	8 31.18	+15 40.1	1.064	2.046	2.9	20.3
2 11	8 21.77	+16 15.2	1.089	2.050	8.5	20.6
2 21	8 14.63	+16 45.3	1.136	2.055	13.7	20.9
3 2	8 10.75	+17 7.1	1.205	2.061	18.2	21.2

3157 Novikov 1 27.4 104°.51 3°.1/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 1.91	+27 12.0	2.477	3.288	11.2	16.8
1 2	8 56.58	+27 56.7	2.410	3.301	8.5	16.7
1 12	8 49.33	+28 41.5	2.368	3.313	5.6	16.5
1 22	8 40.77	+29 21.5	2.355	3.326	3.3	16.4
2 1	8 31.74	+29 52.4	2.373	3.338	4.0	16.5
2 11	8 23.21	+30 11.3	2.420	3.350	6.6	16.6
2 21	8 15.99	+30 17.4	2.494	3.362	9.4	16.8
3 2	8 10.71	+30 11.6	2.592	3.374	11.8	17.0

92600 2000 PW_{19} 1 27.4 157°.66 2°.3/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.48	+21 25.4	1.842	2.655	14.4	19.9
1 2	8 59.93	+22 25.4	1.768	2.661	10.9	19.6
1 12	8 51.77	+23 32.4	1.717	2.667	6.8	19.4
1 22	8 41.72	+24 40.0	1.695	2.672	3.0	19.2
2 1	8 30.89	+25 40.7	1.701	2.677	3.7	19.2
2 11	8 20.60	+26 29.0	1.737	2.681	7.7	19.5
2 21	8 12.03	+27 2.1	1.800	2.685	11.5	19.7
3 2	8 6.04	+27 20.0	1.886	2.687	14.9	20.0

30298 Somyakhare 1 27.4 92°.91 5°.0/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.04	+28 29.5	1.510	2.333	16.5	19.1
1 2	9 4.46	+29 23.8	1.459	2.354	12.6	18.9
1 12	8 54.66	+30 16.9	1.429	2.375	8.4	18.7
1 22	8 42.71	+30 59.9	1.426	2.396	5.3	18.6
2 1	8 30.15	+31 25.3	1.451	2.416	6.1	18.7
2 11	8 18.71	+31 29.7	1.503	2.436	9.7	19.0
2 21	8 9.73	+31 14.4	1.580	2.455	13.4	19.2
3 2	8 4.03	+30 43.4	1.678	2.474	16.7	19.5

13147 Foglia 1 27.4 29°.48 0°.4/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.63	+15 33.9	2.024	2.830	13.5	17.9
1 2	8 55.22	+15 57.4	1.943	2.832	10.3	17.7
1 12	8 48.66	+16 30.7	1.886	2.834	6.5	17.4
1 22	8 40.59	+17 10.3	1.856	2.836	2.4	17.2
2 1	8 31.88	+17 52.0	1.856	2.838	1.9	17.1
2 11	8 23.62	+18 31.3	1.885	2.841	6.1	17.4
2 21	8 16.73	+19 4.9	1.940	2.843	9.9	17.6
3 2	8 11.94	+19 30.6	2.020	2.846	13.1	17.9

495456 2014 TK_{30} 1 27.4 63°.69 0°.7/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.62	+14 12.9	1.684	2.494	15.7	21.3
1 2	8 56.96	+14 44.1	1.620	2.510	11.9	21.1
1 12	8 49.83	+15 28.1	1.579	2.526	7.6	20.8
1 22	8 41.00	+16 20.3	1.564	2.543	2.9	20.6
2 1	8 31.58	+17 15.3	1.577	2.559	2.2	20.6
2 11	8 22.82	+18 7.0	1.619	2.576	6.7	20.9
2 21	8 15.78	+18 51.3	1.687	2.593	10.9	21.2
3 2	8 11.22	+19 25.6	1.778	2.610	14.4	21.4

57589 2001 TH_{74} 1 27.4 17°.65 2°.9/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.84	+ 9 14.8	1.987	2.778	14.3	19.1
1 2	8 53.83	+ 9 10.6	1.908	2.782	11.2	18.9
1 12	8 47.77	+ 9 19.9	1.852	2.787	7.7	18.7
1 22	8 40.26	+ 9 41.5	1.822	2.792	4.2	18.5
2 1	8 32.19	+10 12.7	1.820	2.797	3.2	18.5
2 11	8 24.56	+10 49.5	1.847	2.803	6.1	18.6
2 21	8 18.25	+11 27.9	1.900	2.810	9.6	18.9
3 2	8 13.97	+12 4.1	1.978	2.816	12.9	19.1

130691 2000 SW_{145} 1 27.4 41°.40 4°.8/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.45	+27 24.1	1.391	2.225	17.0	19.2
1 2	9 1.41	+28 9.9	1.329	2.231	13.0	18.9
1 12	8 53.00	+28 56.6	1.288	2.238	8.6	18.7
1 22	8 42.20	+29 35.6	1.272	2.244	5.1	18.5
2 1	8 30.55	+29 58.9	1.282	2.251	6.0	18.6
2 11	8 19.85	+30 2.2	1.318	2.258	10.0	18.8
2 21	8 11.57	+29 45.9	1.379	2.266	14.2	19.1
3 2	8 6.65	+29 13.4	1.459	2.274	17.8	19.3

201067 2002 EJ_{105} 1 27.4 13°.57 2°.9/26.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.10	+22 8.5	1.237	2.080	18.2	19.8
1 2	8 58.39	+22 53.2	1.173	2.082	13.8	19.5
1 12	8 51.26	+23 46.3	1.130	2.085	8.7	19.3
1 22	8 41.63	+24 39.7	1.110	2.089	3.8	19.0
2 1	8 31.03	+25 24.5	1.116	2.094	4.6	19.0
2 11	8 21.28	+25 54.0	1.147	2.099	9.6	19.3
2 21	8 13.94	+26 5.8	1.201	2.105	14.5	19.6
3 2	8 9.98	+26 0.7	1.275	2.112	18.6	19.9

13806 Darmstrong 1 27.4 188°.84 0°.3/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.27	+17 31.8	2.371	3.172	12.0	19.3
1 2	8 55.45	+18 0.6	2.285	3.172	9.0	19.1
1 12	8 48.71	+18 36.7	2.224	3.171	5.7	18.9
1 22	8 40.60	+19 16.5	2.190	3.170	2.0	18.6
2 1	8 31.92	+19 56.1	2.188	3.169	1.9	18.6
2 11	8 23.59	+20 31.9	2.215	3.168	5.6	18.9
2 21	8 16.45	+21 1.0	2.271	3.166	9.0	19.1
3 2	8 11.16	+21 22.0	2.351	3.164	11.9	19.3

119657 2001 XQ_{58} 1 27.4 351°.39 2°.7/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 0.35	+10 29.4	1.754	2.552	15.6	19.6
1 2	8 56.06	+10 26.7	1.671	2.551	12.2	19.4
1 12	8 49.35	+10 38.2	1.611	2.549	8.3	19.1
1 22	8 40.88	+11 2.5	1.576	2.548	4.2	18.9
2 1	8 31.67	+11 36.3	1.568	2.548	3.1	18.8
2 11	8 22.92	+12 15.1	1.589	2.547	6.8	19.0
2 21	8 15.71	+12 54.1	1.637	2.547	10.9	19.3
3 2	8 10.88	+13 29.7	1.707	2.547	14.5	19.5

1981 Midas 1 27.4 258°.63 18°.4/ 8.3 18 R

12 23	10 34.15	+68 39.6	2.013	2.642	18.9	19.8
1 2	10 20.25	+71 20.0	1.933	2.604	18.4	19.7
1 12	9 51.52	+73 41.8	1.872	2.562	18.4	19.6
1 22	9 5.69	+75 12.6	1.829	2.518	18.8	19.5
2 1	8 9.85	+75 18.8	1.807	2.472	19.8	19.4
2 11	7 20.34	+73 53.1	1.803	2.422	21.2	19.4
2 21	6 47.44	+71 19.9	1.815	2.369	22.8	19.5
3 2	6 30.68	+68 10.2	1.840	2.314	24.4	19.5

72917 2001 QX_{87} 1 27.4 24°.60 2°.8/28.8 18

12 23	8 59.69	+ 9 40.6	1.178	2.002	20.1	19.3
1 2	8 56.47	+10 2.0	1.113	2.008	15.7	19.0
1 12	8 50.02	+10 47.0	1.068	2.014	10.5	18.7
1 22	8 41.20	+11 52.0	1.045	2.021	5.1	18.4
2 1	8 31.42	+13 9.7	1.047	2.029	3.4	18.4
2 11	8 22.41	+14 30.4	1.075	2.037	8.4	18.7
2 21	8 15.64	+15 45.3	1.126	2.046	13.6	19.0
3 2	8 12.09	+16 48.3	1.197	2.056	18.1	19.3

369082 2008 FW_{111} 1 27.4 214°.67 2°.7/29.3 16

12 23	9 0.49	+ 8 2.3	2.280	3.053	13.2	21.6
1 2	8 55.70	+ 8 15.8	2.183	3.046	10.5	21.4
1 12	8 48.93	+ 8 43.3	2.110	3.039	7.2	21.2
1 22	8 40.71	+ 9 23.3	2.064	3.032	4.0	20.9
2 1	8 31.83	+10 12.8	2.048	3.024	3.0	20.9
2 11	8 23.22	+11 7.6	2.062	3.016	5.8	21.0
2 21	8 15.75	+12 3.3	2.104	3.007	9.2	21.2
3 2	8 10.15	+12 55.9	2.172	2.998	12.3	21.4

4074 Sharkov 1 27.4 240°.66 4°.0/30.2 18

12 23	8 57.98	+ 4 37.7	2.326	3.089	13.3	17.4
1 2	8 53.72	+ 4 36.7	2.234	3.086	10.7	17.2
1 12	8 47.63	+ 4 50.7	2.165	3.083	7.8	17.0
1 22	8 40.23	+ 5 19.4	2.122	3.080	5.0	16.8
2 1	8 32.26	+ 6 0.7	2.108	3.077	4.0	16.7
2 11	8 24.58	+ 6 50.9	2.124	3.074	6.0	16.8
2 21	8 17.99	+ 7 45.7	2.167	3.071	8.9	17.0
3 2	8 13.16	+ 8 40.7	2.236	3.068	11.8	17.2

351223 2004 PG_{7} 1 27.4 195°.44 1°.0/26.9 18

12 23	9 8.32	+20 17.8	2.097	2.895	13.4	21.9
1 2	9 1.80	+20 35.9	2.007	2.892	10.2	21.7
1 12	8 52.85	+20 59.1	1.942	2.889	6.4	21.4
1 22	8 42.12	+21 23.2	1.905	2.884	2.3	21.2
2 1	8 30.64	+21 43.9	1.898	2.878	2.5	21.2
2 11	8 19.61	+21 57.7	1.923	2.872	6.6	21.4
2 21	8 10.12	+22 2.9	1.975	2.864	10.4	21.6
3 2	8 2.99	+21 59.4	2.052	2.856	13.8	21.8

235594 2004 PX_{40} 1 27.4 137°.12 0°.7/26.9 18

12 23	9 6.38	+17 46.3	1.932	2.733	14.3	21.4
1 2	9 0.34	+18 25.3	1.861	2.748	10.8	21.2
1 12	8 51.88	+19 12.8	1.814	2.762	6.7	21.0
1 22	8 41.75	+20 3.8	1.795	2.775	2.4	20.8
2 1	8 30.99	+20 52.8	1.807	2.788	2.4	20.8
2 11	8 20.84	+21 34.7	1.848	2.799	6.6	21.1
2 21	8 12.34	+22 6.8	1.917	2.810	10.5	21.3
3 2	8 6.25	+22 28.1	2.010	2.820	13.8	21.6

316614 2011 WX_{41} 1 27.4 111°.55 4°.2/24.9 18

12 23	9 4.93	+25 11.0	1.646	2.470	15.3	20.6
1 2	8 59.87	+26 27.6	1.579	2.478	11.6	20.4
1 12	8 51.90	+27 48.7	1.537	2.486	7.5	20.2
1 22	8 41.82	+29 5.8	1.521	2.493	4.4	20.0
2 1	8 30.90	+30 9.9	1.533	2.501	5.4	20.1
2 11	8 20.65	+30 55.2	1.573	2.508	9.1	20.3
2 21	8 12.38	+31 19.6	1.639	2.515	13.0	20.5
3 2	8 6.99	+31 24.9	1.725	2.522	16.3	20.8

325951 2010 VC_{83} 1 27.4 87°.98 0°.1/27.3 18

12 23	9 5.14	+17 21.6	1.836	2.641	14.7	21.3
1 2	8 59.36	+17 40.0	1.775	2.663	11.1	21.1
1 12	8 51.20	+18 6.4	1.737	2.685	6.9	20.9
1 22	8 41.48	+18 36.8	1.727	2.707	2.4	20.6
2 1	8 31.27	+19 6.4	1.746	2.728	2.1	20.6
2 11	8 21.79	+19 31.4	1.794	2.748	6.5	21.0
2 21	8 14.04	+19 49.4	1.869	2.769	10.4	21.2
3 2	8 8.71	+19 59.4	1.969	2.789	13.6	21.5

330682 2008 HG_{38} 1 27.4 285°.13 9°.9/31.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 0.57	− 6 11.0	1.946	2.661	17.1	21.0
1 2	8 56.28	− 7 19.6	1.838	2.637	15.0	20.8
1 12	8 49.60	− 8 7.9	1.750	2.613	12.7	20.6
1 22	8 41.06	− 8 31.2	1.684	2.588	10.7	20.4
2 1	8 31.48	− 8 26.5	1.644	2.563	9.9	20.3
2 11	8 22.00	− 7 54.5	1.629	2.539	10.8	20.3
2 21	8 13.74	− 6 59.4	1.638	2.514	13.0	20.3
3 2	8 7.64	− 5 48.2	1.671	2.489	15.8	20.5

243617 1999 GT_{54} 1 27.4 337°.70 0°.6/27.7 18

12 23	8 58.08	+15 37.0	1.791	2.607	14.6	20.5
1 2	8 54.44	+15 49.1	1.703	2.596	11.2	20.2
1 12	8 48.40	+16 11.9	1.637	2.586	7.2	20.0
1 22	8 40.59	+16 42.2	1.597	2.576	2.7	19.7
2 1	8 31.98	+17 16.0	1.584	2.567	2.1	19.6
2 11	8 23.77	+17 48.6	1.600	2.558	6.7	19.9
2 21	8 17.04	+18 16.2	1.642	2.551	10.9	20.1
3 2	8 12.63	+18 36.5	1.706	2.544	14.6	20.3

340651 2006 RQ_{1} 1 27.4 178°.62 2°.1/28.9 17

12 23	9 0.88	+10 40.1	3.104	3.870	10.2	21.4
1 2	8 55.38	+10 25.7	3.010	3.871	8.0	21.2
1 12	8 48.43	+10 18.7	2.943	3.872	5.4	21.0
1 22	8 40.48	+10 18.1	2.904	3.873	2.9	20.9
2 1	8 32.12	+10 22.8	2.897	3.873	2.3	20.8
2 11	8 24.05	+10 30.9	2.921	3.873	4.5	21.0
2 21	8 16.87	+10 40.8	2.976	3.872	7.1	21.1
3 2	8 11.09	+10 50.7	3.058	3.871	9.5	21.3

195262 2002 EB_{55} 1 27.4 286°.91 6°.3/23.7 18

12 23	9 6.07	+34 4.9	1.958	2.775	13.5	19.4
1 2	9 0.71	+34 58.9	1.871	2.758	10.7	19.1
1 12	8 52.46	+35 49.3	1.808	2.742	7.9	18.9
1 22	8 42.07	+36 27.9	1.771	2.725	6.3	18.8
2 1	8 30.71	+36 48.0	1.762	2.709	7.2	18.8
2 11	8 19.85	+36 45.6	1.781	2.692	9.9	18.9
2 21	8 10.82	+36 21.2	1.824	2.676	13.1	19.1
3 2	8 4.57	+35 38.4	1.889	2.659	16.0	19.3

240513 2004 EQ_{104} 1 27.4 104°.41 3°.2/29.9 18

12 23	8 57.47	+ 6 7.8	2.374	3.143	12.9	21.1
1 2	8 53.29	+ 6 21.4	2.287	3.145	10.2	20.9
1 12	8 47.33	+ 6 49.5	2.223	3.147	7.3	20.8
1 22	8 40.13	+ 7 30.8	2.185	3.149	4.3	20.6
2 1	8 32.41	+ 8 22.6	2.178	3.151	3.3	20.5
2 11	8 25.00	+ 9 20.8	2.200	3.153	5.5	20.7
2 21	8 18.67	+10 20.8	2.250	3.155	8.6	20.8
3 2	8 14.04	+11 18.7	2.326	3.157	11.4	21.0

83673 2001 TN_{35} 1 27.4 78°.04 5°.6/23.5 18

12 23	9 4.05	+35 9.3	2.345	3.154	11.8	19.2
1 2	8 58.49	+36 4.5	2.283	3.164	9.3	19.0
1 12	8 50.67	+36 54.4	2.246	3.174	6.9	18.9
1 22	8 41.31	+37 32.6	2.236	3.184	5.7	18.8
2 1	8 31.43	+37 54.3	2.255	3.194	6.4	18.9
2 11	8 22.16	+37 57.2	2.303	3.204	8.5	19.0
2 21	8 14.46	+37 41.9	2.376	3.214	10.9	19.2
3 2	8 9.03	+37 11.3	2.471	3.224	13.1	19.4

133118 2003 ON_{27} 1 27.4 178°.43 0°.6/27.8 18

12 23	9 4.32	+14 42.9	2.021	2.816	14.0	21.1
1 2	8 58.80	+15 7.8	1.936	2.818	10.7	20.9
1 12	8 50.96	+15 43.3	1.875	2.819	6.8	20.6
1 22	8 41.47	+16 25.9	1.841	2.820	2.6	20.4
2 1	8 31.26	+17 11.0	1.838	2.820	2.0	20.3
2 11	8 21.48	+17 54.0	1.865	2.819	6.2	20.6
2 21	8 13.16	+18 31.3	1.919	2.818	10.2	20.8
3 2	8 7.08	+19 0.6	1.998	2.816	13.6	21.0

25324 1999 GQ_{4} 1 27.4 277°.44 3°.6/30.1 18

12 23	8 57.47	+ 5 16.9	2.352	3.118	13.1	17.8
1 2	8 53.32	+ 5 24.2	2.263	3.118	10.5	17.6
1 12	8 47.38	+ 5 46.5	2.196	3.118	7.5	17.4
1 22	8 40.18	+ 6 22.8	2.156	3.117	4.7	17.2
2 1	8 32.42	+ 7 10.6	2.146	3.117	3.6	17.2
2 11	8 24.97	+ 8 6.1	2.164	3.117	5.7	17.3
2 21	8 18.60	+ 9 4.8	2.211	3.116	8.7	17.5
3 2	8 13.95	+10 2.4	2.284	3.116	11.6	17.7

18900 2000 LD_{12} 1 27.4 233°.63 5°.1/30.7 18

12 23	8 59.73	+ 1 23.0	2.720	3.453	12.3	18.5
1 2	8 54.81	+ 0 46.3	2.617	3.444	10.2	18.3
1 12	8 48.24	+ 0 22.4	2.539	3.435	7.9	18.2
1 22	8 40.48	+ 0 12.3	2.487	3.425	5.9	18.0
2 1	8 32.17	+ 0 15.9	2.464	3.415	5.1	18.0
2 11	8 24.08	+ 0 31.6	2.471	3.404	6.3	18.0
2 21	8 16.91	+ 0 56.7	2.506	3.394	8.6	18.1
3 2	8 11.28	+ 1 27.8	2.567	3.383	11.0	18.3

18848 1999 RH_{41} 1 27.4 165°.96 4°.9/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 59.19	− 0 50.5	2.390	3.122	13.8	18.0
1 2	8 54.58	− 0 24.3	2.299	3.126	11.4	17.8
1 12	8 48.16	+ 0 21.8	2.230	3.129	8.6	17.6
1 22	8 40.46	+ 1 27.2	2.187	3.131	6.1	17.5
2 1	8 32.20	+ 2 49.1	2.174	3.134	4.9	17.4
2 11	8 24.23	+ 4 22.2	2.191	3.136	6.2	17.5
2 21	8 17.34	+ 6 0.4	2.237	3.137	8.9	17.6
3 2	8 12.17	+ 7 37.6	2.311	3.138	11.6	17.8

168974 2001 BD_{65} 1 27.4 304°.05 4°.2/29.7 18

12 23	8 58.47	+ 6 27.8	1.891	2.674	15.2	19.5
1 2	8 54.67	+ 6 19.0	1.789	2.655	12.3	19.2
1 12	8 48.57	+ 6 26.6	1.709	2.636	8.8	19.0
1 22	8 40.70	+ 6 50.7	1.653	2.617	5.5	18.7
2 1	8 31.95	+ 7 29.5	1.626	2.599	4.3	18.6
2 11	8 23.42	+ 8 18.7	1.626	2.580	7.0	18.7
2 21	8 16.19	+ 9 13.1	1.653	2.562	10.8	18.9
3 2	8 11.13	+10 7.7	1.703	2.545	14.5	19.1

367551 2009 RH_{73} 1 27.4 124°.12 3°.1/29.2 18

12 23	9 2.99	+ 8 48.0	2.175	2.949	13.8	21.2
1 2	8 57.47	+ 8 33.0	2.098	2.962	10.8	21.0
1 12	8 49.96	+ 8 30.0	2.045	2.974	7.5	20.9
1 22	8 41.08	+ 8 38.1	2.018	2.985	4.3	20.7
2 1	8 31.70	+ 8 55.4	2.021	2.996	3.3	20.6
2 11	8 22.81	+ 9 18.7	2.055	3.007	6.0	20.8
2 21	8 15.24	+ 9 44.9	2.116	3.017	9.2	21.0
3 2	8 9.67	+10 10.8	2.202	3.027	12.2	21.3

245487 2005 PL_{18} 1 27.4 202°.58 2°.3/25.1 18

12 23	8 59.54	+25 1.2	3.133	3.935	9.3	21.3
1 2	8 54.61	+25 58.1	3.043	3.931	7.0	21.1
1 12	8 48.09	+26 57.3	2.980	3.926	4.5	20.9
1 22	8 40.42	+27 54.9	2.947	3.920	2.5	20.8
2 1	8 32.24	+28 46.6	2.946	3.914	3.1	20.8
2 11	8 24.26	+29 29.2	2.976	3.907	5.5	21.0
2 21	8 17.19	+30 1.0	3.035	3.900	8.0	21.1
3 2	8 11.60	+30 21.6	3.120	3.893	10.2	21.3

183438 2003 AF_{68} 1 27.4 14°.43 1°.4/28.1 18

12 23	8 58.59	+13 9.5	1.358	2.184	17.8	19.7
1 2	8 55.31	+13 28.7	1.290	2.187	13.7	19.4
1 12	8 49.15	+14 4.6	1.243	2.192	8.9	19.2
1 22	8 40.91	+14 53.2	1.220	2.198	3.7	18.9
2 1	8 31.84	+15 48.4	1.223	2.205	2.6	18.8
2 11	8 23.45	+16 43.0	1.252	2.213	7.7	19.2
2 21	8 17.03	+17 31.3	1.305	2.222	12.5	19.5
3 2	8 13.46	+18 9.3	1.380	2.231	16.6	19.7

503473 2016 EO_{148} 1 27.4 289°.86 1°.2/28.2 17

12 23	8 59.22	+12 21.3	1.914	2.715	14.4	21.8
1 2	8 55.25	+12 52.6	1.814	2.698	11.2	21.5
1 12	8 48.95	+13 38.5	1.737	2.681	7.3	21.3
1 22	8 40.85	+14 36.3	1.687	2.664	3.1	21.0
2 1	8 31.84	+15 41.0	1.665	2.647	2.2	20.9
2 11	8 23.07	+16 46.7	1.673	2.630	6.5	21.1
2 21	8 15.63	+17 47.9	1.707	2.614	10.7	21.3
3 2	8 10.40	+18 40.8	1.766	2.597	14.5	21.5

124841 2001 TH_{8} 1 27.4 103°.63 0°.7/27.7 18

12 23	9 8.90	+15 46.8	1.679	2.480	16.1	19.8
1 2	9 2.35	+15 54.3	1.619	2.503	12.2	19.6
1 12	8 53.17	+16 11.4	1.581	2.527	7.8	19.4
1 22	8 42.24	+16 34.4	1.570	2.549	2.9	19.1
2 1	8 30.79	+16 58.9	1.589	2.571	2.2	19.1
2 11	8 20.20	+17 20.7	1.636	2.592	6.9	19.4
2 21	8 11.58	+17 37.1	1.711	2.612	11.0	19.7
3 2	8 5.66	+17 47.0	1.809	2.632	14.6	20.0

394827 2008 SO_{139} 1 27.4 123°.77 2°.8/28.9 18

12 23	9 5.78	+ 9 38.4	1.714	2.501	16.4	21.6
1 2	9 0.06	+ 9 46.5	1.644	2.517	12.8	21.4
1 12	8 51.81	+10 10.4	1.596	2.532	8.6	21.2
1 22	8 41.79	+10 47.5	1.575	2.547	4.4	21.0
2 1	8 31.13	+11 33.8	1.582	2.561	3.1	21.0
2 11	8 21.12	+12 23.7	1.618	2.574	6.9	21.2
2 21	8 12.86	+13 12.1	1.681	2.587	10.9	21.5
3 2	8 7.15	+13 55.3	1.768	2.598	14.5	21.7

9802 1997 GQ_{6} 1 27.4 146°.07 2°.2/26.1 18

12 23	9 5.62	+23 1.6	2.085	2.893	13.1	19.2
1 2	8 59.72	+23 39.9	2.012	2.903	9.9	19.0
1 12	8 51.50	+24 21.9	1.963	2.911	6.2	18.8
1 22	8 41.67	+25 2.3	1.942	2.920	2.8	18.6
2 1	8 31.23	+25 35.8	1.952	2.927	3.3	18.6
2 11	8 21.35	+25 58.8	1.991	2.935	6.9	18.8
2 21	8 13.04	+26 9.8	2.058	2.941	10.4	19.1
3 2	8 7.03	+26 9.2	2.149	2.947	13.4	19.3

282812 2006 RQ_{18} 1 27.4 163°.05 4°.5/31.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 57.35	− 1 59.4	3.377	4.084	10.6	22.4
1 2	8 52.66	− 2 6.1	3.285	4.091	8.8	22.2
1 12	8 46.71	− 1 59.6	3.217	4.097	6.9	22.1
1 22	8 39.90	− 1 39.7	3.176	4.102	5.3	22.0
2 1	8 32.74	− 1 7.4	3.164	4.107	4.5	22.0
2 11	8 25.80	− 0 24.8	3.183	4.111	5.3	22.0
2 21	8 19.62	+ 0 25.1	3.231	4.115	7.0	22.1
3 2	8 14.64	+ 1 18.7	3.307	4.118	8.8	22.3

84289 2002 TK_{29} 1 27.4 58°.74 5°.1/24.1 18

12 23	9 3.34	+31 31.5	2.095	2.913	12.7	19.4
1 2	8 58.16	+32 27.3	2.030	2.920	9.8	19.2
1 12	8 50.58	+33 20.5	1.989	2.928	6.9	19.0
1 22	8 41.35	+34 4.3	1.976	2.936	5.1	18.9
2 1	8 31.51	+34 33.1	1.991	2.944	5.9	19.0
2 11	8 22.29	+34 43.8	2.035	2.952	8.5	19.2
2 21	8 14.71	+34 36.7	2.103	2.961	11.3	19.4
3 2	8 9.53	+34 13.8	2.195	2.969	13.9	19.6

398465 2011 UP_{108} 1 27.4 156°.42 1°.0/28.1 18

12 23	9 5.09	+12 31.7	2.305	3.084	12.9	22.5
1 2	8 59.04	+13 5.0	2.223	3.095	9.9	22.3
1 12	8 50.97	+13 49.3	2.166	3.106	6.4	22.1
1 22	8 41.47	+14 41.3	2.139	3.115	2.7	21.9
2 1	8 31.40	+15 36.8	2.142	3.124	1.9	21.9
2 11	8 21.75	+16 31.2	2.177	3.131	5.5	22.1
2 21	8 13.39	+17 20.7	2.242	3.137	9.1	22.3
3 2	8 7.02	+18 2.8	2.332	3.143	12.1	22.6

433894 2015 BZ_{415} 1 27.4 4°.86 1°.5/26.6 18

12 23	9 0.95	+21 21.9	1.897	2.716	13.8	21.3
1 2	8 56.44	+21 45.1	1.819	2.716	10.4	21.0
1 12	8 49.57	+22 13.3	1.765	2.716	6.5	20.8
1 22	8 41.02	+22 42.3	1.738	2.717	2.5	20.5
2 1	8 31.80	+23 7.2	1.739	2.718	2.9	20.6
2 11	8 23.11	+23 24.3	1.769	2.720	6.9	20.8
2 21	8 15.97	+23 31.6	1.825	2.721	10.7	21.1
3 2	8 11.17	+23 28.8	1.904	2.724	14.1	21.3

169282 2001 ST_{238} 1 27.4 84°.80 4°.3/24.3 18

12 23	9 1.98	+29 55.8	2.322	3.137	11.7	19.8
1 2	8 56.92	+30 53.3	2.255	3.146	9.0	19.7
1 12	8 49.71	+31 49.5	2.213	3.154	6.2	19.5
1 22	8 41.04	+32 38.6	2.199	3.163	4.4	19.4
2 1	8 31.81	+33 15.3	2.215	3.171	5.1	19.5
2 11	8 23.08	+33 36.4	2.259	3.180	7.6	19.6
2 21	8 15.78	+33 41.5	2.330	3.188	10.3	19.8
3 2	8 10.59	+33 32.0	2.424	3.197	12.8	20.0

408213 2013 EN_{66} 1 27.4 308°.68 5°.8/24.4 18

12 23	9 3.84	+28 7.8	1.398	2.237	16.7	20.8
1 2	8 59.90	+29 16.6	1.317	2.221	13.0	20.5
1 12	8 52.46	+30 29.4	1.257	2.206	8.9	20.2
1 22	8 42.26	+31 36.0	1.222	2.191	6.0	20.0
2 1	8 30.71	+32 25.9	1.213	2.177	7.2	20.0
2 11	8 19.71	+32 51.9	1.229	2.163	11.2	20.2
2 21	8 10.97	+32 52.4	1.268	2.149	15.6	20.4
3 2	8 5.71	+32 30.4	1.326	2.136	19.5	20.6

413692 2005 XX_{64} 1 27.4 60°.90 4°.9/30.3 18

12 23	9 0.79	+ 4 42.7	1.785	2.560	16.3	20.6
1 2	8 56.21	+ 4 24.6	1.715	2.574	13.1	20.4
1 12	8 49.36	+ 4 24.6	1.666	2.587	9.5	20.2
1 22	8 40.94	+ 4 42.5	1.643	2.601	6.2	20.0
2 1	8 31.95	+ 5 16.2	1.647	2.615	5.0	20.0
2 11	8 23.52	+ 6 1.0	1.678	2.629	7.2	20.2
2 21	8 16.63	+ 6 51.6	1.736	2.643	10.6	20.4
3 2	8 12.00	+ 7 42.8	1.818	2.658	13.8	20.6

87101 2000 LD_{17} 1 27.4 246°.43 5°.6/30.5 18

12 23	9 1.50	+ 2 30.5	2.131	2.883	14.7	19.1
1 2	8 56.66	+ 1 57.4	2.030	2.871	12.1	18.9
1 12	8 49.68	+ 1 40.1	1.952	2.858	9.2	18.6
1 22	8 41.10	+ 1 39.7	1.899	2.845	6.6	18.5
2 1	8 31.75	+ 1 56.0	1.874	2.832	5.7	18.4
2 11	8 22.65	+ 2 26.5	1.877	2.819	7.4	18.5
2 21	8 14.75	+ 3 7.1	1.908	2.805	10.3	18.6
3 2	8 8.84	+ 3 53.0	1.963	2.790	13.4	18.8

166210 2002 ER_{133} 1 27.4 196°.42 0°.8/27.0 18

12 23	9 5.94	+19 9.3	1.974	2.777	13.9	21.0
1 2	9 0.17	+19 30.8	1.887	2.775	10.6	20.8
1 12	8 51.94	+19 59.0	1.824	2.772	6.7	20.5
1 22	8 41.91	+20 29.9	1.789	2.769	2.4	20.2
2 1	8 31.10	+20 58.7	1.784	2.764	2.4	20.2
2 11	8 20.76	+21 21.4	1.808	2.760	6.7	20.5
2 21	8 11.98	+21 35.7	1.860	2.754	10.7	20.7
3 2	8 5.59	+21 40.8	1.936	2.748	14.1	20.9

209652 2005 CU_8 1 27.4 306.°72 1.°9/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.67	+20 57.3	1.465	2.295	16.5	20.6
1 2	8 58.67	+21 26.5	1.376	2.278	12.7	20.3
1 12	8 51.51	+22 4.4	1.308	2.262	8.0	20.0
1 22	8 41.89	+22 45.2	1.266	2.246	3.2	19.7
2 1	8 31.06	+23 21.8	1.250	2.230	3.6	19.7
2 11	8 20.68	+23 48.1	1.261	2.214	8.7	19.9
2 21	8 12.25	+24 0.9	1.296	2.199	13.7	20.2
3 2	8 6.92	+23 59.7	1.352	2.185	18.0	20.4

200374 2000 QK_{91} 1 27.4 63.°88 1.°7/28.2 18

12 23	9 4.68	+13 24.7	1.402	2.216	18.0	20.2
1 2	8 59.69	+13 27.6	1.342	2.232	13.8	20.0
1 12	8 51.78	+13 44.8	1.302	2.248	9.0	19.7
1 22	8 41.84	+14 12.9	1.287	2.264	3.8	19.5
2 1	8 31.23	+14 47.0	1.299	2.281	2.7	19.4
2 11	8 21.48	+15 21.5	1.338	2.297	7.6	19.8
2 21	8 13.83	+15 52.0	1.402	2.313	12.2	20.1
3 2	8 9.13	+16 15.5	1.488	2.330	16.1	20.4

411239 2010 QK_6 1 27.4 185.°67 0.°7/27.8 18

12 23	9 4.18	+14 47.5	2.190	2.981	13.2	22.2
1 2	8 58.57	+15 5.7	2.102	2.981	10.1	22.0
1 12	8 50.80	+15 33.3	2.037	2.981	6.5	21.8
1 22	8 41.48	+16 7.2	2.001	2.979	2.5	21.6
2 1	8 31.49	+16 43.6	1.995	2.977	1.9	21.5
2 11	8 21.89	+17 18.7	2.020	2.975	5.8	21.8
2 21	8 13.62	+17 49.1	2.073	2.971	9.6	22.0
3 2	8 7.42	+18 13.1	2.152	2.967	12.8	22.2

461910 2006 QX_{95} 1 27.4 193.°38 3.°5/24.3 17

12 23	9 2.29	+30 49.8	3.146	3.947	9.3	22.3
1 2	8 56.70	+31 36.3	3.062	3.944	7.2	22.1
1 12	8 49.41	+32 21.2	3.004	3.941	5.0	22.0
1 22	8 40.94	+33 0.2	2.977	3.937	3.6	21.9
2 1	8 31.97	+33 29.5	2.980	3.933	4.2	21.9
2 11	8 23.30	+33 46.7	3.014	3.928	6.2	22.0
2 21	8 15.66	+33 51.2	3.076	3.923	8.4	22.2
3 2	8 9.64	+33 43.8	3.162	3.917	10.5	22.3

396802 2004 PX_{13} 1 27.4 172.°86 0.°1/27.4 18

12 23	9 5.85	+16 20.4	2.054	2.849	13.8	22.8
1 2	8 59.96	+16 54.9	1.971	2.854	10.5	22.6
1 12	8 51.73	+17 39.0	1.911	2.857	6.6	22.4
1 22	8 41.83	+18 28.4	1.880	2.860	2.4	22.1
2 1	8 31.21	+19 18.0	1.880	2.862	2.1	22.1
2 11	8 21.04	+20 2.9	1.910	2.863	6.3	22.4
2 21	8 12.34	+20 39.9	1.968	2.863	10.2	22.6
3 2	8 5.91	+21 7.2	2.051	2.862	13.5	22.8

404690 2014 HR_{181} 1 27.4 11.°11 1.°5/28.2 18

12 23	9 1.37	+11 52.1	1.278	2.100	19.0	20.5
1 2	8 57.73	+12 27.6	1.205	2.101	14.7	20.2
1 12	8 50.89	+13 24.1	1.153	2.101	9.6	20.0
1 22	8 41.65	+14 36.9	1.124	2.102	4.0	19.6
2 1	8 31.35	+15 58.2	1.121	2.104	2.7	19.6
2 11	8 21.68	+17 18.4	1.145	2.105	8.3	19.9
2 21	8 14.14	+18 29.6	1.192	2.108	13.5	20.2
3 2	8 9.76	+19 27.0	1.261	2.110	18.0	20.5

211610 2003 TH_{39} 1 27.4 299.°41 4.°3/29.2 18

12 23	9 1.88	+ 8 41.8	1.539	2.338	17.4	20.3
1 2	8 57.74	+ 8 15.0	1.447	2.324	13.9	20.0
1 12	8 50.76	+ 8 4.0	1.376	2.311	9.8	19.8
1 22	8 41.61	+ 8 9.3	1.329	2.297	5.8	19.5
2 1	8 31.37	+ 8 29.2	1.308	2.284	4.6	19.4
2 11	8 21.51	+ 8 59.6	1.314	2.271	8.1	19.5
2 21	8 13.34	+ 9 35.5	1.345	2.258	12.6	19.8
3 2	8 7.92	+10 12.0	1.398	2.245	16.7	20.0

284511 2007 RZ_{20} 1 27.4 78.°70 1.°1/26.9 18

12 23	9 6.62	+19 8.0	1.529	2.347	16.6	20.6
1 2	9 0.97	+19 39.0	1.473	2.368	12.5	20.4
1 12	8 52.48	+20 18.3	1.439	2.390	7.8	20.1
1 22	8 42.09	+21 0.0	1.431	2.411	2.8	19.9
2 1	8 31.11	+21 37.7	1.452	2.432	2.8	19.9
2 11	8 21.04	+22 6.6	1.500	2.453	7.6	20.3
2 21	8 13.07	+22 24.3	1.574	2.474	11.9	20.6
3 2	8 7.97	+22 30.6	1.671	2.494	15.5	20.9

61612 2000 QC_{97} 1 27.4 79.°33 3.°0/25.8 18

12 23	9 4.62	+24 54.4	1.847	2.665	14.1	19.4
1 2	8 59.23	+25 34.3	1.782	2.678	10.6	19.2
1 12	8 51.31	+26 16.4	1.742	2.691	6.8	19.0
1 22	8 41.67	+26 54.8	1.729	2.704	3.5	18.8
2 1	8 31.44	+27 23.7	1.744	2.717	4.1	18.9
2 11	8 21.91	+27 39.5	1.788	2.730	7.7	19.1
2 21	8 14.15	+27 41.4	1.859	2.743	11.2	19.3
3 2	8 8.93	+27 30.5	1.952	2.756	14.4	19.6

171563 1999 TR_{178} 1 27.4 76.°20 3.°7/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.56	+25 56.5	1.564	2.388	16.0	20.1
1 2	9 1.81	+26 36.0	1.505	2.403	12.1	19.9
1 12	8 53.08	+27 16.9	1.469	2.419	7.8	19.7
1 22	8 42.32	+27 51.9	1.459	2.434	4.2	19.5
2 1	8 30.92	+28 14.5	1.478	2.449	4.9	19.6
2 11	8 20.45	+28 21.1	1.523	2.465	8.7	19.9
2 21	8 12.17	+28 11.5	1.594	2.480	12.7	20.1
3 2	8 6.90	+27 48.2	1.686	2.495	16.1	20.4

460636 2014 UB_{108} 1 27.4 322.°37 6.°0/23.9 18

12 23	9 3.96	+30 15.6	1.648	2.478	15.0	21.4
1 2	8 59.44	+31 30.4	1.575	2.473	11.7	21.2
1 12	8 51.86	+32 45.6	1.525	2.468	8.2	21.0
1 22	8 41.98	+33 51.9	1.500	2.463	6.1	20.8
2 1	8 31.11	+34 40.3	1.503	2.459	7.1	20.9
2 11	8 20.84	+35 5.6	1.532	2.454	10.4	21.0
2 21	8 12.59	+35 7.0	1.585	2.450	14.0	21.2
3 2	8 7.35	+34 47.5	1.659	2.446	17.2	21.4

168082 2006 DJ_{60} 1 27.4 239.°50 0.°4/27.6 18

12 23	9 4.45	+15 46.5	1.835	2.638	14.8	21.8
1 2	8 59.33	+16 5.1	1.739	2.626	11.4	21.5
1 12	8 51.60	+16 34.5	1.667	2.613	7.3	21.2
1 22	8 41.88	+17 11.2	1.621	2.600	2.7	20.9
2 1	8 31.19	+17 50.4	1.604	2.586	2.2	20.8
2 11	8 20.84	+18 27.2	1.617	2.572	6.9	21.1
2 21	8 12.04	+18 57.8	1.656	2.558	11.3	21.3
3 2	8 5.72	+19 20.0	1.719	2.543	15.2	21.5

154831 2004 RY_{13} 1 27.4 52.°96 1.°7/28.5 18

12 23	9 0.27	+11 50.1	1.809	2.610	15.1	20.1
1 2	8 55.93	+12 8.3	1.734	2.617	11.7	19.9
1 12	8 49.27	+12 40.3	1.682	2.624	7.7	19.7
1 22	8 40.97	+13 23.3	1.656	2.632	3.5	19.4
2 1	8 32.02	+14 12.7	1.658	2.639	2.4	19.4
2 11	8 23.59	+15 3.3	1.689	2.647	6.4	19.6
2 21	8 16.68	+15 50.4	1.746	2.655	10.4	19.9
3 2	8 12.05	+16 30.6	1.828	2.663	13.9	20.1

69353 1994 AE_9 1 27.4 181.°18 0.°3/27.6 18

12 23	9 5.28	+16 6.6	2.092	2.887	13.6	20.5
1 2	8 59.50	+16 25.3	2.006	2.888	10.3	20.3
1 12	8 51.44	+16 52.8	1.944	2.889	6.6	20.0
1 22	8 41.75	+17 25.5	1.910	2.889	2.4	19.8
2 1	8 31.36	+17 59.4	1.906	2.888	1.9	19.7
2 11	8 21.41	+18 30.5	1.933	2.887	6.1	20.0
2 21	8 12.89	+18 55.7	1.988	2.885	10.0	20.2
3 2	8 6.58	+19 13.7	2.067	2.882	13.3	20.4

65062 2002 AD_{181} 1 27.4 39.°87 6.°2/24.3 18

12 23	9 6.75	+32 52.9	1.726	2.549	14.8	19.0
1 2	9 1.27	+33 44.3	1.662	2.554	11.5	18.8
1 12	8 52.80	+34 31.3	1.620	2.559	8.3	18.7
1 22	8 42.25	+35 5.8	1.605	2.564	6.2	18.6
2 1	8 30.97	+35 20.8	1.617	2.569	7.1	18.6
2 11	8 20.52	+35 13.6	1.656	2.575	9.9	18.8
2 21	8 12.19	+34 45.5	1.719	2.581	13.2	19.0
3 2	8 6.83	+34 0.5	1.803	2.587	16.1	19.2

350602 2001 RT_{104} 1 27.4 49.°10 2.°3/26.6 17

12 23	9 8.71	+21 39.8	1.099	1.940	20.2	20.5
1 2	9 3.21	+22 8.2	1.061	1.968	15.1	20.3
1 12	8 54.10	+22 43.3	1.042	1.997	9.4	20.1
1 22	8 42.66	+23 17.1	1.047	2.026	3.7	19.9
2 1	8 30.75	+23 41.8	1.077	2.056	4.1	20.0
2 11	8 20.30	+23 52.9	1.132	2.086	9.3	20.4
2 21	8 12.74	+23 49.7	1.211	2.117	14.2	20.7
3 2	8 8.78	+23 34.2	1.309	2.148	18.1	21.1

187437 2005 WQ_{62} 1 27.4 189.°27 3.°6/24.5 18

12 23	9 3.91	+27 17.4	2.475	3.282	11.3	20.5
1 2	8 58.37	+28 27.1	2.392	3.281	8.6	20.4
1 12	8 50.71	+29 38.5	2.336	3.279	5.8	20.2
1 22	8 41.49	+30 45.7	2.309	3.277	3.7	20.0
2 1	8 31.57	+31 42.7	2.313	3.274	4.5	20.1
2 11	8 21.98	+32 25.5	2.347	3.270	7.2	20.3
2 21	8 13.67	+32 52.3	2.409	3.266	10.1	20.4
3 2	8 7.37	+33 3.7	2.494	3.261	12.6	20.6

384751 2011 QW_{41} 1 27.4 186.°55 3.°1/24.9 17

12 23	9 2.91	+30 7.8	3.206	4.005	9.2	21.7
1 2	8 57.07	+30 37.7	3.122	4.004	7.0	21.5
1 12	8 49.61	+31 5.6	3.065	4.003	4.8	21.4
1 22	8 41.03	+31 28.0	3.037	4.002	3.2	21.2
2 1	8 32.02	+31 41.5	3.041	4.000	3.7	21.3
2 11	8 23.36	+31 44.4	3.075	3.997	5.7	21.4
2 21	8 15.73	+31 36.3	3.138	3.994	8.0	21.6
3 2	8 9.70	+31 18.3	3.226	3.991	10.1	21.7

49533 1999 CN_{54} 1 27.4 79°.32 2°.6/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 58.59	+ 7 58.7	2.222	3.000	13.4	18.2
1 2	8 54.23	+ 8 22.2	2.146	3.012	10.5	18.0
1 12	8 48.00	+ 9 0.1	2.093	3.024	7.2	17.8
1 22	8 40.49	+ 9 50.1	2.067	3.036	3.9	17.6
2 1	8 32.48	+10 48.7	2.071	3.048	2.8	17.6
2 11	8 24.88	+11 51.0	2.104	3.060	5.5	17.8
2 21	8 18.48	+12 52.5	2.166	3.072	8.8	18.0
3 2	8 13.90	+13 49.1	2.253	3.084	11.8	18.2

415280 2013 FY_{9} 1 27.4 192°.80 1°.3/26.7 17

12 23	9 5.23	+20 19.8	2.135	2.937	13.0	22.8
1 2	8 59.51	+20 52.2	2.048	2.936	9.9	22.6
1 12	8 51.48	+21 30.6	1.985	2.933	6.2	22.4
1 22	8 41.79	+22 10.5	1.951	2.930	2.3	22.1
2 1	8 31.36	+22 46.9	1.947	2.927	2.6	22.2
2 11	8 21.36	+23 15.7	1.974	2.922	6.5	22.4
2 21	8 12.78	+23 34.7	2.028	2.917	10.2	22.6
3 2	8 6.44	+23 43.4	2.107	2.911	13.4	22.8

121910 2000 DW_{66} 1 27.4 195°.31 0°.6/27.1 18

12 23	9 6.72	+18 11.2	1.816	2.621	14.9	20.5
1 2	9 0.99	+18 35.5	1.731	2.619	11.3	20.3
1 12	8 52.59	+19 8.5	1.669	2.617	7.2	20.0
1 22	8 42.23	+19 45.6	1.634	2.613	2.5	19.7
2 1	8 31.00	+20 21.4	1.628	2.609	2.4	19.7
2 11	8 20.26	+20 51.3	1.652	2.605	7.1	20.0
2 21	8 11.21	+21 12.3	1.703	2.599	11.4	20.2
3 2	8 4.75	+21 23.5	1.777	2.593	15.0	20.5

60821 2000 HD_{40} 1 27.4 60°.71 0°.1/27.4 18

12 23	9 2.27	+16 20.6	1.628	2.444	15.8	19.1
1 2	8 57.68	+16 52.3	1.561	2.455	12.0	18.8
1 12	8 50.48	+17 35.4	1.516	2.465	7.6	18.6
1 22	8 41.44	+18 25.0	1.497	2.477	2.7	18.3
2 1	8 31.71	+19 15.0	1.506	2.488	2.3	18.3
2 11	8 22.63	+19 59.7	1.543	2.499	7.1	18.7
2 21	8 15.35	+20 35.4	1.606	2.511	11.4	18.9
3 2	8 10.66	+21 0.1	1.692	2.522	15.0	19.2

130885 2000 VV_{21} 1 27.4 275°.38 1°.4/26.7 18

12 23	9 2.91	+18 54.8	1.588	2.410	15.9	19.7
1 2	8 58.58	+19 38.7	1.502	2.400	12.1	19.4
1 12	8 51.33	+20 33.7	1.438	2.389	7.6	19.1
1 22	8 41.85	+21 34.1	1.399	2.379	2.8	18.8
2 1	8 31.30	+22 32.5	1.389	2.369	3.1	18.8
2 11	8 21.17	+23 22.0	1.406	2.359	8.1	19.1
2 21	8 12.85	+23 58.5	1.449	2.349	12.8	19.3
3 2	8 7.36	+24 20.3	1.514	2.339	16.8	19.5

257207 2008 UL_{123} 1 27.4 321°.80 7°.8/23.9 18

12 23	9 5.92	+32 27.1	1.277	2.119	17.8	20.0
1 2	9 1.91	+33 34.5	1.203	2.105	14.1	19.7
1 12	8 53.94	+34 40.0	1.149	2.092	10.3	19.5
1 22	8 42.89	+35 31.9	1.118	2.079	7.9	19.3
2 1	8 30.44	+35 58.8	1.112	2.068	9.1	19.3
2 11	8 18.77	+35 54.8	1.130	2.056	12.8	19.5
2 21	8 9.80	+35 21.3	1.170	2.046	17.0	19.7
3 2	8 4.77	+34 23.9	1.227	2.036	20.9	19.9

289155 2004 VB_{25} 1 27.4 98°.27 0°.7/27.1 17

12 23	9 7.50	+18 5.8	1.667	2.475	15.8	21.4
1 2	9 1.44	+18 36.4	1.607	2.498	11.9	21.2
1 12	8 52.72	+19 15.6	1.571	2.520	7.4	21.0
1 22	8 42.21	+19 58.0	1.562	2.542	2.6	20.8
2 1	8 31.14	+20 37.9	1.582	2.563	2.5	20.8
2 11	8 20.90	+21 10.3	1.631	2.584	7.1	21.1
2 21	8 12.61	+21 32.7	1.706	2.604	11.3	21.4
3 2	8 7.03	+21 44.7	1.805	2.624	14.7	21.7

226282 2003 BS_{13} 1 27.4 316°.99 1°.0/27.9 18

12 23	9 1.42	+15 34.7	1.585	2.402	16.1	19.9
1 2	8 57.38	+15 31.6	1.493	2.387	12.5	19.6
1 12	8 50.54	+15 39.0	1.424	2.373	8.1	19.3
1 22	8 41.57	+15 54.6	1.380	2.358	3.2	19.0
2 1	8 31.58	+16 14.5	1.362	2.345	2.4	18.9
2 11	8 22.00	+16 34.2	1.372	2.332	7.4	19.2
2 21	8 14.14	+16 50.3	1.408	2.319	12.2	19.4
3 2	8 9.00	+17 0.5	1.465	2.307	16.4	19.6

116894 2004 FA_{139} 1 27.4 193°.67 3°.9/31.0 18

12 23	8 57.47	+ 1 17.9	3.343	4.069	10.3	20.8
1 2	8 52.85	+ 1 10.0	3.243	4.066	8.5	20.7
1 12	8 46.93	+ 1 13.8	3.167	4.063	6.5	20.5
1 22	8 40.10	+ 1 29.4	3.119	4.060	4.6	20.4
2 1	8 32.88	+ 1 55.8	3.101	4.055	3.9	20.4
2 11	8 25.85	+ 2 30.9	3.113	4.051	5.0	20.4
2 21	8 19.56	+ 3 12.0	3.155	4.046	6.9	20.5
3 2	8 14.47	+ 3 56.1	3.225	4.040	8.9	20.7

46073 2001 EA_{1} 1 27.4 302°.63 3°.1/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.35	+22 15.6	1.551	2.380	15.8	19.1
1 2	8 58.27	+23 18.1	1.469	2.372	12.0	18.8
1 12	8 51.19	+24 29.6	1.411	2.363	7.7	18.6
1 22	8 41.83	+25 42.5	1.378	2.355	3.6	18.3
2 1	8 31.38	+26 47.9	1.372	2.347	4.5	18.3
2 11	8 21.41	+27 38.6	1.394	2.340	9.0	18.6
2 21	8 13.33	+28 11.0	1.441	2.332	13.4	18.8
3 2	8 8.19	+28 24.9	1.508	2.325	17.2	19.0

9601 1991 UE_{3} 1 27.4 206°.94 3°.2/25.5 18

12 23	9 6.99	+23 52.2	1.859	2.672	14.3	17.8
1 2	9 1.35	+24 53.9	1.774	2.667	10.9	17.6
1 12	8 52.93	+26 1.4	1.713	2.661	7.0	17.3
1 22	8 42.41	+27 7.5	1.679	2.654	3.6	17.1
2 1	8 30.91	+28 4.7	1.675	2.647	4.5	17.1
2 11	8 19.84	+28 46.9	1.700	2.638	8.3	17.3
2 21	8 10.47	+29 11.9	1.752	2.629	12.2	17.5
3 2	8 3.78	+29 20.1	1.826	2.620	15.6	17.8

417760 2007 DP_{56} 1 27.4 54°.38 2°.1/28.8 18

12 23	9 0.32	+10 10.1	1.674	2.475	16.1	20.9
1 2	8 56.09	+10 37.3	1.606	2.487	12.5	20.7
1 12	8 49.44	+11 21.3	1.560	2.500	8.3	20.4
1 22	8 41.09	+12 18.7	1.539	2.514	3.9	20.2
2 1	8 32.09	+13 24.2	1.546	2.527	2.6	20.1
2 11	8 23.68	+14 31.1	1.582	2.541	6.6	20.4
2 21	8 16.92	+15 33.7	1.644	2.555	10.8	20.7
3 2	8 12.56	+16 27.8	1.730	2.569	14.4	21.0

417307 2006 BB_{111} 1 27.4 33°.71 3°.3/26.0 18

12 23	9 7.49	+27 38.2	1.861	2.676	14.2	20.7
1 2	9 1.46	+27 46.7	1.786	2.679	10.8	20.5
1 12	8 52.77	+27 53.6	1.735	2.682	7.1	20.3
1 22	8 42.26	+27 53.8	1.712	2.686	3.8	20.1
2 1	8 31.14	+27 42.8	1.717	2.689	4.3	20.1
2 11	8 20.75	+27 19.0	1.751	2.693	7.8	20.3
2 21	8 12.25	+26 43.1	1.812	2.697	11.4	20.5
3 2	8 6.41	+25 57.7	1.895	2.701	14.7	20.8

469230 2016 HT_{23} 1 27.4 221°.59 4°.9/30.8 17

12 23	8 59.06	+ 2 6.5	2.365	3.113	13.5	21.4
1 2	8 54.58	+ 1 50.4	2.271	3.109	11.1	21.2
1 12	8 48.27	+ 1 49.9	2.199	3.105	8.4	21.1
1 22	8 40.65	+ 2 5.4	2.153	3.100	5.9	20.9
2 1	8 32.44	+ 2 35.9	2.136	3.096	5.0	20.8
2 11	8 24.50	+ 3 18.2	2.148	3.091	6.5	20.9
2 21	8 17.63	+ 4 8.3	2.187	3.086	9.1	21.1
3 2	8 12.50	+ 5 1.6	2.252	3.081	11.9	21.2

462779 2010 GX_{118} 1 27.4 136°.94 6°.6/22.3 18

12 23	9 6.23	+40 20.4	2.653	3.448	11.0	21.5
1 2	9 0.12	+41 20.7	2.591	3.455	9.0	21.4
1 12	8 51.77	+42 13.0	2.554	3.462	7.3	21.3
1 22	8 41.88	+42 51.0	2.544	3.468	6.6	21.2
2 1	8 31.44	+43 10.1	2.563	3.474	7.2	21.3
2 11	8 21.58	+43 8.5	2.610	3.480	8.8	21.4
2 21	8 13.26	+42 47.3	2.682	3.486	10.8	21.5
3 2	8 7.18	+42 9.7	2.775	3.492	12.6	21.7

269099 2007 HM_{79} 1 27.4 278°.69 0°.7/27.9 17

12 23	8 59.85	+13 25.2	2.030	2.830	13.7	21.2
1 2	8 55.70	+14 5.3	1.927	2.811	10.6	20.9
1 12	8 49.28	+14 59.2	1.847	2.792	6.9	20.7
1 22	8 41.10	+16 3.6	1.794	2.772	2.7	20.4
2 1	8 32.02	+17 13.4	1.770	2.753	2.0	20.3
2 11	8 23.12	+18 22.5	1.777	2.733	6.3	20.5
2 21	8 15.47	+19 25.8	1.811	2.713	10.4	20.7
3 2	8 9.93	+20 19.6	1.869	2.694	14.1	20.9

76395 2000 FB_{12} 1 27.4 268°.04 4°.9/23.9 18

12 23	9 2.35	+30 18.6	2.166	2.984	12.3	18.9
1 2	8 57.55	+31 27.9	2.088	2.980	9.5	18.7
1 12	8 50.37	+32 37.1	2.036	2.976	6.7	18.5
1 22	8 41.45	+33 39.0	2.011	2.972	4.9	18.4
2 1	8 31.77	+34 27.2	2.015	2.968	5.8	18.4
2 11	8 22.52	+34 57.6	2.047	2.964	8.5	18.6
2 21	8 14.75	+35 9.0	2.106	2.960	11.4	18.8
3 2	8 9.28	+35 3.0	2.186	2.957	14.1	19.0

261880 2006 HD_{3} 1 27.4 236°.89 1°.0/26.5 18

12 23	8 56.31	+20 51.4	3.325	4.125	8.9	20.9
1 2	8 52.09	+21 21.6	3.233	4.120	6.6	20.7
1 12	8 46.50	+21 55.3	3.167	4.116	4.1	20.5
1 22	8 39.97	+22 29.8	3.132	4.111	1.6	20.4
2 1	8 33.04	+23 2.2	3.127	4.106	1.8	20.4
2 11	8 26.32	+23 30.2	3.153	4.101	4.4	20.5
2 21	8 20.40	+23 52.0	3.209	4.095	6.9	20.7
3 2	8 15.77	+24 6.8	3.291	4.090	9.2	20.9

167673 2004 FX_{32} 1 27.4 33°.14 1°.5/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.69	+15 33.5	2.048	2.846	13.7	19.4
1 2	8 58.22	+15 5.0	1.969	2.851	10.5	19.2
1 12	8 50.59	+14 43.0	1.913	2.856	6.8	19.0
1 22	8 41.47	+14 26.2	1.885	2.862	3.0	18.8
2 1	8 31.81	+14 13.0	1.887	2.868	2.2	18.7
2 11	8 22.70	+14 1.5	1.918	2.874	6.0	19.0
2 21	8 15.05	+13 50.5	1.977	2.880	9.6	19.2
3 2	8 9.56	+13 38.6	2.060	2.887	12.9	19.4

426016 2011 KL_{35} 1 27.4 220°.63 6°.7/ 1.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.16	− 4 25.9	2.674	3.377	13.1	21.5
1 2	8 54.49	− 5 4.3	2.575	3.370	11.2	21.4
1 12	8 48.16	− 5 26.4	2.497	3.363	9.2	21.2
1 22	8 40.62	− 5 30.5	2.445	3.356	7.5	21.1
2 1	8 32.52	− 5 16.2	2.421	3.348	6.7	21.0
2 11	8 24.64	− 4 45.3	2.425	3.340	7.4	21.1
2 21	8 17.69	− 4 1.2	2.456	3.332	9.2	21.2
3 2	8 12.28	− 3 8.3	2.513	3.323	11.3	21.3

288930 2004 SR_{31} 1 27.4 48°.69 4°.2/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.05	+26 40.1	1.369	2.201	17.4	20.0
1 2	9 2.71	+27 12.2	1.306	2.208	13.2	19.8
1 12	8 53.95	+27 45.4	1.265	2.215	8.7	19.5
1 22	8 42.78	+28 11.6	1.248	2.223	4.7	19.3
2 1	8 30.78	+28 23.6	1.258	2.230	5.4	19.4
2 11	8 19.77	+28 17.7	1.294	2.238	9.7	19.6
2 21	8 11.25	+27 54.5	1.354	2.247	14.0	19.9
3 2	8 6.12	+27 17.2	1.435	2.255	17.8	20.2

241968 2002 GM_{11} 1 27.4 301°.93 3°.8/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.64	+ 6 51.8	1.873	2.658	15.3	20.7
1 2	8 54.86	+ 6 53.7	1.774	2.642	12.2	20.5
1 12	8 48.78	+ 7 12.9	1.697	2.627	8.7	20.2
1 22	8 40.94	+ 7 48.8	1.646	2.612	5.2	20.0
2 1	8 32.23	+ 8 38.6	1.622	2.597	3.9	19.9
2 11	8 23.77	+ 9 37.6	1.626	2.582	6.8	20.0
2 21	8 16.63	+10 40.0	1.657	2.567	10.7	20.2
3 2	8 11.68	+11 40.6	1.711	2.553	14.4	20.4

222261 2000 QC_{171} 1 27.4 168°.11 2°.8/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.42	+ 7 48.5	2.501	3.266	12.4	21.5
1 2	8 56.22	+ 7 54.1	2.412	3.270	9.8	21.3
1 12	8 49.23	+ 8 12.0	2.348	3.275	6.8	21.1
1 22	8 41.00	+ 8 40.7	2.312	3.278	3.9	21.0
2 1	8 32.24	+ 9 18.0	2.306	3.281	2.9	20.9
2 11	8 23.81	+10 0.3	2.331	3.283	5.3	21.1
2 21	8 16.47	+10 44.1	2.385	3.285	8.4	21.2
3 2	8 10.85	+11 26.2	2.464	3.286	11.2	21.4

151798 2003 FV_{54} 1 27.4 330°.47 7°.6/23.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.98	+33 13.7	1.529	2.364	15.7	19.8
1 2	8 59.13	+34 35.9	1.454	2.352	12.5	19.6
1 12	8 51.93	+35 56.4	1.402	2.340	9.3	19.4
1 22	8 42.17	+37 4.5	1.374	2.329	7.6	19.3
2 1	8 31.22	+37 50.2	1.372	2.318	8.8	19.3
2 11	8 20.88	+38 7.5	1.395	2.308	11.9	19.5
2 21	8 12.74	+37 56.7	1.440	2.299	15.5	19.6
3 2	8 7.92	+37 21.6	1.505	2.291	18.7	19.8

279949 2001 SJ_{157} 1 27.4 135°.17 3°.0/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.18	+ 6 15.3	2.900	3.654	11.1	21.7
1 2	8 54.25	+ 6 14.2	2.817	3.667	8.8	21.6
1 12	8 47.85	+ 6 24.1	2.760	3.679	6.3	21.4
1 22	8 40.47	+ 6 44.1	2.730	3.691	3.9	21.3
2 1	8 32.71	+ 7 12.5	2.731	3.702	3.1	21.2
2 11	8 25.27	+ 7 46.7	2.763	3.713	4.8	21.4
2 21	8 18.75	+ 8 23.7	2.825	3.723	7.3	21.5
3 2	8 13.67	+ 9 0.7	2.912	3.733	9.7	21.7

365200 2009 FN_{65} 1 27.4 252°.39 0°.7/27.0 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.90	+18 19.0	1.875	2.684	14.3	21.9
1 2	8 58.97	+18 49.5	1.778	2.669	11.0	21.7
1 12	8 51.44	+19 29.1	1.705	2.654	6.9	21.4
1 22	8 41.92	+20 13.7	1.659	2.638	2.5	21.1
2 1	8 31.42	+20 57.7	1.641	2.622	2.5	21.0
2 11	8 21.23	+21 35.8	1.653	2.606	7.1	21.3
2 21	8 12.55	+22 4.5	1.692	2.589	11.4	21.5
3 2	8 6.32	+22 22.4	1.754	2.572	15.1	21.7

412140 2013 GO_{53} 1 27.4 232°.60 0°.2/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.58	+15 41.3	2.034	2.832	13.8	21.7
1 2	8 58.48	+16 8.6	1.936	2.820	10.6	21.5
1 12	8 51.00	+16 46.3	1.862	2.808	6.8	21.2
1 22	8 41.73	+17 31.0	1.816	2.795	2.5	20.9
2 1	8 31.60	+18 17.9	1.799	2.781	2.0	20.8
2 11	8 21.75	+19 2.1	1.813	2.767	6.4	21.1
2 21	8 13.26	+19 39.8	1.854	2.752	10.5	21.3
3 2	8 6.99	+20 8.9	1.919	2.737	14.0	21.5

226784 2004 RS_{155} 1 27.4 153°.26 3°.7/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 0.82	+ 6 7.9	2.195	2.962	13.9	20.7
1 2	8 55.99	+ 6 2.3	2.110	2.967	11.1	20.5
1 12	8 49.20	+ 6 11.1	2.048	2.971	7.9	20.3
1 22	8 41.01	+ 6 33.8	2.013	2.974	4.9	20.1
2 1	8 32.25	+ 7 8.2	2.006	2.978	3.8	20.0
2 11	8 23.87	+ 7 50.4	2.029	2.981	6.1	20.2
2 21	8 16.71	+ 8 36.5	2.081	2.984	9.3	20.4
3 2	8 11.46	+ 9 22.2	2.157	2.987	12.3	20.6

234061 1999 HE_{1} 1 27.4 228°.82 2°.7/25.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.91	+25 33.1	2.784	3.576	10.6	23.3
1 2	9 1.30	+26 25.8	2.675	3.556	8.1	23.1
1 12	8 52.59	+27 21.2	2.593	3.536	5.3	22.8
1 22	8 42.28	+28 14.2	2.542	3.514	3.0	22.7
2 1	8 31.15	+28 59.7	2.523	3.490	3.6	22.7
2 11	8 20.16	+29 33.9	2.536	3.466	6.4	22.8
2 21	8 10.25	+29 55.0	2.579	3.440	9.4	23.0
3 2	8 2.21	+30 3.1	2.648	3.413	12.0	23.1

222796 2002 CQ_{213} 1 27.4 87°.08 0°.2/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.26	+15 43.9	1.925	2.731	14.1	20.9
1 2	8 56.64	+16 14.3	1.848	2.737	10.7	20.7
1 12	8 49.74	+16 55.0	1.795	2.743	6.8	20.5
1 22	8 41.23	+17 42.2	1.769	2.749	2.5	20.2
2 1	8 32.08	+18 30.8	1.773	2.755	2.0	20.2
2 11	8 23.41	+19 15.8	1.805	2.761	6.3	20.5
2 21	8 16.22	+19 53.7	1.865	2.767	10.2	20.7
3 2	8 11.26	+20 22.3	1.948	2.773	13.6	20.9

429932 2012 TS_{275} 1 27.4 171°.47 7°.9/ 2.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.08	− 9 9.4	2.654	3.330	13.8	21.0
1 2	8 53.67	− 9 50.6	2.564	3.331	12.1	20.9
1 12	8 47.63	−10 12.9	2.495	3.332	10.3	20.8
1 22	8 40.44	−10 14.0	2.450	3.333	8.7	20.7
2 1	8 32.74	− 9 53.4	2.431	3.334	7.9	20.6
2 11	8 25.30	− 9 12.9	2.439	3.335	8.3	20.6
2 21	8 18.82	− 8 16.6	2.473	3.335	9.7	20.7
3 2	8 13.87	− 7 9.5	2.532	3.335	11.5	20.8

370828 2004 VE_{33} 1 27.5 137°.79 0°.2/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.13	+17 5.4	2.481	3.275	11.7	22.0
1 2	8 56.76	+17 35.1	2.404	3.287	8.8	21.8
1 12	8 49.57	+18 11.7	2.353	3.298	5.5	21.6
1 22	8 41.12	+18 51.8	2.330	3.310	2.0	21.4
2 1	8 32.20	+19 31.4	2.339	3.320	1.7	21.4
2 11	8 23.68	+20 7.2	2.378	3.331	5.3	21.6
2 21	8 16.36	+20 36.6	2.446	3.340	8.5	21.8
3 2	8 10.84	+20 58.3	2.540	3.349	11.3	22.0

467037 2016 CN_{213} 1 27.5 291°.33 0°.4/27.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.56	+14 49.8	1.764	2.575	15.0	21.6
1 2	8 56.57	+15 21.3	1.666	2.557	11.6	21.4
1 12	8 50.01	+16 6.5	1.591	2.539	7.5	21.1
1 22	8 41.44	+17 1.5	1.542	2.521	2.8	20.7
2 1	8 31.85	+18 1.0	1.521	2.503	2.2	20.7
2 11	8 22.52	+18 58.7	1.528	2.485	7.1	20.9
2 21	8 14.66	+19 49.3	1.562	2.467	11.6	21.1
3 2	8 9.27	+20 29.6	1.618	2.450	15.6	21.3

288712 2004 RC_{17} 1 27.5 94°.61 1°.8/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.65	+21 47.8	1.528	2.346	16.6	20.7
1 2	9 2.67	+22 7.4	1.465	2.361	12.5	20.4
1 12	8 53.70	+22 32.2	1.424	2.375	7.8	20.2
1 22	8 42.67	+22 56.3	1.409	2.388	3.1	19.9
2 1	8 30.96	+23 14.0	1.423	2.402	3.3	20.0
2 11	8 20.16	+23 21.4	1.464	2.415	8.0	20.3
2 21	8 11.54	+23 17.5	1.531	2.429	12.4	20.6
3 2	8 5.94	+23 3.2	1.620	2.441	16.0	20.9

186914 2004 NS_{7} 1 27.5 122°.31 3°.5/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.68	+ 3 56.1	2.383	3.136	13.3	20.5
1 2	8 55.68	+ 4 21.9	2.305	3.152	10.6	20.4
1 12	8 48.89	+ 5 4.0	2.251	3.168	7.6	20.2
1 22	8 40.89	+ 6 0.6	2.224	3.184	4.7	20.1
2 1	8 32.41	+ 7 8.5	2.228	3.199	3.6	20.0
2 11	8 24.33	+ 8 22.6	2.262	3.213	5.6	20.2
2 21	8 17.40	+ 9 37.9	2.325	3.227	8.5	20.4
3 2	8 12.21	+10 49.9	2.415	3.240	11.2	20.6

123725 2000 YU_{135} 1 27.5 50°.46 2°.0/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.32	+20 35.1	1.639	2.462	15.4	19.7
1 2	8 57.70	+21 26.1	1.582	2.481	11.5	19.5
1 12	8 50.49	+22 24.3	1.548	2.500	7.2	19.3
1 22	8 41.50	+23 23.3	1.541	2.520	2.9	19.0
2 1	8 31.92	+24 16.0	1.562	2.540	3.4	19.1
2 11	8 23.09	+24 57.2	1.610	2.560	7.6	19.4
2 21	8 16.11	+25 24.3	1.685	2.580	11.5	19.7
3 2	8 11.74	+25 37.3	1.781	2.601	14.9	20.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
470924 2009 EY_{24}			1 27.5 303°.04		1°.5/26.5 16	
	h m	° ′			°	m
12 23	9 0.46	+21 45.9	2.200	3.012	12.4	21.4
1 2	8 56.00	+22 8.6	2.102	2.995	9.4	21.2
1 12	8 49.37	+22 35.9	2.028	2.978	5.9	21.0
1 22	8 41.14	+23 3.9	1.982	2.961	2.4	20.7
2 1	8 32.15	+23 28.3	1.966	2.944	2.7	20.7
2 11	8 23.47	+23 45.6	1.978	2.927	6.4	20.9
2 21	8 16.06	+23 53.7	2.018	2.911	10.1	21.1
3 2	8 10.69	+23 52.1	2.082	2.895	13.3	21.3
373146 2012 BJ_{26}			1 27.5 95°.09		7°.1/ 1.5 18	
12 23	9 3.94	− 4 51.4	1.176	1.939	23.7	20.5
1 2	8 59.84	− 3 41.8	1.105	1.950	19.7	20.3
1 12	8 52.36	− 1 45.6	1.052	1.962	14.9	20.0
1 22	8 42.33	+ 0 56.0	1.020	1.973	9.9	19.8
2 1	8 31.18	+ 4 13.0	1.015	1.984	7.1	19.6
2 11	8 20.73	+ 7 46.3	1.038	1.995	9.5	19.8
2 21	8 12.56	+11 14.9	1.087	2.006	14.2	20.1
3 2	8 7.78	+14 22.6	1.160	2.016	18.8	20.4
417027 2005 UM_{88}			1 27.5 96°.72		3°.7/25.3 18	
12 23	9 4.29	+26 13.1	1.875	2.695	13.9	21.1
1 2	8 59.14	+27 4.1	1.805	2.701	10.5	20.9
1 12	8 51.41	+27 57.0	1.759	2.707	6.9	20.7
1 22	8 41.87	+28 45.3	1.740	2.712	4.0	20.5
2 1	8 31.62	+29 22.5	1.749	2.718	4.7	20.6
2 11	8 21.98	+29 44.5	1.787	2.724	8.1	20.8
2 21	8 14.07	+29 50.4	1.851	2.729	11.6	21.0
3 2	8 8.71	+29 41.3	1.938	2.735	14.7	21.2
455305 2002 EP_{105}			1 27.5 308°.15		6°.5/23.5 17	
12 23	9 3.64	+31 27.8	1.714	2.542	14.6	21.0
1 2	8 59.52	+32 40.3	1.616	2.512	11.5	20.7
1 12	8 52.22	+33 54.2	1.540	2.481	8.4	20.5
1 22	8 42.36	+35 0.3	1.490	2.450	6.5	20.3
2 1	8 31.09	+35 49.2	1.467	2.420	7.7	20.3
2 11	8 20.06	+36 13.9	1.471	2.389	11.0	20.4
2 21	8 10.86	+36 13.0	1.498	2.360	14.8	20.6
3 2	8 4.72	+35 48.7	1.545	2.330	18.3	20.7
98191 2000 SN_{113}			1 27.5 77°.12		2°.0/26.5 18	
12 23	9 8.01	+20 56.6	1.494	2.314	16.8	19.7
1 2	9 2.11	+21 38.0	1.443	2.340	12.6	19.5
1 12	8 53.28	+22 26.1	1.414	2.365	7.8	19.3
1 22	8 42.50	+23 13.7	1.412	2.391	3.1	19.1
2 1	8 31.18	+23 54.1	1.437	2.416	3.5	19.1
2 11	8 20.85	+24 22.2	1.490	2.440	8.0	19.5
2 21	8 12.74	+24 36.5	1.569	2.465	12.2	19.8
3 2	8 7.59	+24 37.7	1.670	2.489	15.8	20.1
174978 2004 DZ_{50}			1 27.5 272°.12		0°.2/27.4 18	
12 23	9 2.18	+16 46.0	1.755	2.568	15.0	21.1
1 2	8 57.70	+17 14.4	1.669	2.561	11.5	20.9
1 12	8 50.64	+17 53.8	1.605	2.554	7.3	20.6
1 22	8 41.65	+18 39.7	1.568	2.548	2.6	20.3
2 1	8 31.78	+19 26.8	1.559	2.541	2.3	20.2
2 11	8 22.33	+20 9.4	1.579	2.534	7.0	20.5
2 21	8 14.48	+20 43.8	1.625	2.528	11.4	20.8
3 2	8 9.13	+21 7.7	1.693	2.521	15.2	21.0
315959 2008 US_{83}			1 27.5 181°.74		16°.0/ 3.3 18	
12 23	9 6.58	−13 3.0	1.359	2.058	23.9	21.0
1 2	9 1.69	−15 5.5	1.288	2.059	21.6	20.8
1 12	8 53.51	−16 36.1	1.231	2.059	19.2	20.6
1 22	8 42.78	−17 25.1	1.193	2.059	17.1	20.5
2 1	8 30.80	−17 25.8	1.175	2.059	16.1	20.4
2 11	8 19.29	−16 39.0	1.178	2.058	16.5	20.4
2 21	8 9.83	−15 12.8	1.201	2.056	18.2	20.5
3 2	8 3.58	−13 19.9	1.243	2.054	20.5	20.7
462304 2008 GJ_{46}			1 27.5 260°.88		0°.6/27.1 17	
12 23	9 2.26	+17 34.3	2.072	2.877	13.3	22.1
1 2	8 57.55	+18 12.3	1.969	2.858	10.2	21.8
1 12	8 50.49	+19 0.1	1.890	2.839	6.4	21.5
1 22	8 41.62	+19 53.6	1.839	2.819	2.3	21.2
2 1	8 31.82	+20 47.6	1.818	2.799	2.3	21.2
2 11	8 22.23	+21 36.8	1.826	2.778	6.6	21.4
2 21	8 13.93	+22 17.2	1.862	2.757	10.6	21.6
3 2	8 7.81	+22 46.8	1.922	2.736	14.1	21.8
155616 2000 EU_{66}			1 27.5 355°.19		2°.2/26.5 18	
12 23	9 4.38	+21 14.5	1.277	2.114	18.1	20.1
1 2	9 0.22	+21 47.3	1.207	2.112	13.8	19.8
1 12	8 52.61	+22 28.9	1.156	2.111	8.7	19.5
1 22	8 42.44	+23 12.3	1.130	2.110	3.5	19.2
2 1	8 31.19	+23 49.5	1.130	2.109	4.0	19.2
2 11	8 20.70	+24 14.0	1.155	2.109	9.3	19.6
2 21	8 12.56	+24 23.3	1.204	2.110	14.3	19.8
3 2	8 7.83	+24 17.8	1.273	2.110	18.6	20.1

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
136483 2005 GB_{79}			1 27.5 199°.30		2°.7/24.9 18	
	h m	° ′			°	m
12 23	9 0.43	+24 32.0	2.755	3.561	10.3	20.4
1 2	8 55.59	+25 41.6	2.669	3.558	7.8	20.2
1 12	8 48.95	+26 54.8	2.609	3.555	5.0	20.1
1 22	8 40.98	+28 6.6	2.579	3.552	2.8	19.9
2 1	8 32.40	+29 11.7	2.581	3.548	3.6	19.9
2 11	8 24.06	+30 6.1	2.613	3.543	6.2	20.1
2 21	8 16.75	+30 47.4	2.673	3.539	8.9	20.3
3 2	8 11.13	+31 15.2	2.759	3.534	11.3	20.4
226350 2003 GA_{8}			1 27.5 203°.87		2°.6/29.3 16	
12 23	9 0.93	+ 8 27.4	2.397	3.168	12.7	21.2
1 2	8 56.03	+ 8 36.2	2.301	3.164	10.0	21.0
1 12	8 49.24	+ 8 57.6	2.230	3.159	6.9	20.8
1 22	8 41.10	+ 9 30.3	2.185	3.154	3.8	20.5
2 1	8 32.33	+10 11.6	2.171	3.148	2.8	20.5
2 11	8 23.84	+10 57.9	2.187	3.142	5.5	20.6
2 21	8 16.45	+11 45.2	2.232	3.135	8.8	20.8
3 2	8 10.82	+12 30.1	2.303	3.128	11.8	21.0
363803 2005 LG_{13}			1 27.5 171°.60		1°.7/26.4 18	
12 23	9 3.03	+19 36.1	1.835	2.649	14.4	21.4
1 2	8 58.24	+20 30.2	1.756	2.650	10.9	21.2
1 12	8 50.92	+21 33.3	1.701	2.651	6.8	21.0
1 22	8 41.76	+22 39.5	1.673	2.652	2.6	20.7
2 1	8 31.78	+23 41.9	1.674	2.652	3.1	20.7
2 11	8 22.28	+24 34.5	1.704	2.653	7.3	21.0
2 21	8 14.37	+25 14.0	1.761	2.653	11.3	21.2
3 2	8 8.93	+25 39.1	1.841	2.653	14.8	21.5
347093 2010 GN_{135}			1 27.5 135°.40		3°.8/24.7 18	
12 23	9 2.53	+29 35.2	2.535	3.345	11.0	21.3
1 2	8 57.24	+30 22.2	2.462	3.350	8.4	21.2
1 12	8 49.97	+31 8.0	2.415	3.356	5.8	21.0
1 22	8 41.33	+31 47.5	2.396	3.361	3.9	20.9
2 1	8 32.17	+32 16.3	2.407	3.366	4.6	20.9
2 11	8 23.45	+32 31.5	2.448	3.371	7.0	21.1
2 21	8 16.03	+32 32.6	2.516	3.376	9.6	21.3
3 2	8 10.56	+32 20.7	2.607	3.381	12.0	21.5
224935 2007 DD_{61}			1 27.5 315°.86		8°.8/ 1.1 18	
12 23	8 57.76	− 2 56.4	1.691	2.441	18.0	20.0
1 2	8 54.47	− 3 41.0	1.593	2.423	15.4	19.8
1 12	8 48.71	− 4 2.2	1.515	2.405	12.6	19.6
1 22	8 41.03	− 3 56.3	1.458	2.387	10.0	19.4
2 1	8 32.34	− 3 22.1	1.426	2.370	8.8	19.2
2 11	8 23.87	− 2 22.4	1.419	2.354	10.0	19.3
2 21	8 16.80	− 1 3.9	1.437	2.337	12.8	19.4
3 2	8 12.10	+ 0 25.0	1.477	2.322	16.1	19.5
347401 2012 SB_{13}			1 27.5 98°.84		1°.9/26.2 18	
12 23	9 1.00	+22 57.4	2.368	3.178	11.7	20.8
1 2	8 56.12	+23 29.8	2.290	3.182	8.8	20.6
1 12	8 49.29	+24 5.5	2.238	3.187	5.5	20.4
1 22	8 41.10	+24 40.1	2.214	3.191	2.5	20.2
2 1	8 32.38	+25 9.6	2.219	3.195	2.9	20.3
2 11	8 24.08	+25 30.7	2.255	3.200	6.1	20.5
2 21	8 17.05	+25 41.9	2.318	3.204	9.2	20.7
3 2	8 11.94	+25 43.1	2.406	3.208	12.0	20.9
99937 2003 QT_{88}			1 27.5 117°.98		0°.7/27.9 18	
12 23	9 1.08	+14 44.2	2.297	3.091	12.5	19.7
1 2	8 56.12	+15 1.6	2.219	3.101	9.5	19.5
1 12	8 49.26	+15 27.6	2.166	3.110	6.1	19.3
1 22	8 41.08	+15 59.6	2.141	3.119	2.4	19.1
2 1	8 32.40	+16 33.9	2.146	3.128	1.7	19.1
2 11	8 24.14	+17 7.1	2.181	3.137	5.4	19.3
2 21	8 17.12	+17 36.2	2.244	3.145	8.8	19.5
3 2	8 11.98	+17 59.4	2.333	3.153	11.8	19.7
325307 2008 HK_{61}			1 27.5 318°.92		1°.3/28.2 18	
12 23	9 1.85	+13 58.1	1.779	2.584	15.1	21.1
1 2	8 57.33	+14 4.3	1.695	2.581	11.7	20.8
1 12	8 50.34	+14 22.0	1.634	2.578	7.6	20.6
1 22	8 41.55	+14 48.7	1.598	2.576	3.2	20.3
2 1	8 31.98	+15 20.3	1.592	2.574	2.3	20.2
2 11	8 22.87	+15 52.4	1.613	2.571	6.6	20.5
2 21	8 15.33	+16 21.2	1.661	2.569	10.9	20.7
3 2	8 10.18	+16 44.1	1.733	2.567	14.6	21.0
208701 2002 JB_{8}			1 27.5 289°.14		0°.9/27.9 18	
12 23	9 1.19	+13 18.6	1.555	2.368	16.6	19.8
1 2	8 57.35	+13 52.6	1.464	2.355	12.9	19.5
1 12	8 50.66	+14 43.5	1.394	2.342	8.4	19.2
1 22	8 41.76	+15 47.5	1.350	2.329	3.3	18.9
2 1	8 31.75	+16 58.4	1.333	2.315	2.4	18.8
2 11	8 22.06	+18 8.4	1.344	2.302	7.6	19.1
2 21	8 14.06	+19 11.0	1.380	2.289	12.5	19.3
3 2	8 8.82	+20 2.0	1.438	2.277	16.8	19.6

223750 2004 RJ_{194} 1 27.5 81°.00 4°.8/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 1.23	+ 3 48.1	1.996	2.759	15.2	20.3
1 2	8 56.37	+ 3 34.3	1.926	2.776	12.3	20.2
1 12	8 49.47	+ 3 37.6	1.879	2.794	9.0	20.0
1 22	8 41.16	+ 3 57.8	1.856	2.811	6.0	19.9
2 1	8 32.35	+ 4 32.8	1.862	2.828	4.8	19.8
2 11	8 24.06	+ 5 18.3	1.897	2.845	6.7	20.0
2 21	8 17.16	+ 6 9.5	1.959	2.862	9.7	20.2
3 2	8 12.31	+ 7 1.5	2.045	2.879	12.7	20.4

82603 2001 OQ_{96} 1 27.5 118°.08 0°.1/27.5 18

12 23	9 7.45	+18 40.1	2.076	2.872	13.6	18.6
1 2	9 1.00	+18 36.0	2.004	2.888	10.3	18.4
1 12	8 52.33	+18 37.0	1.957	2.903	6.5	18.2
1 22	8 42.17	+18 40.1	1.938	2.917	2.3	17.9
2 1	8 31.53	+18 42.4	1.949	2.931	1.9	17.9
2 11	8 21.53	+18 41.3	1.991	2.944	6.0	18.2
2 21	8 13.12	+18 35.8	2.061	2.957	9.7	18.5
3 2	8 6.98	+18 25.5	2.156	2.970	12.8	18.7

27743 1990 VM 1 27.5 71°.95 0°.8/26.9 18

12 23	9 0.11	+18 5.7	2.222	3.028	12.5	17.8
1 2	8 55.46	+18 52.1	2.155	3.045	9.4	17.6
1 12	8 48.86	+19 45.8	2.113	3.062	5.8	17.4
1 22	8 40.94	+20 42.4	2.100	3.080	2.1	17.2
2 1	8 32.53	+21 37.0	2.117	3.097	2.2	17.2
2 11	8 24.61	+22 25.1	2.163	3.114	5.8	17.5
2 21	8 17.98	+23 3.9	2.237	3.132	9.1	17.7
3 2	8 13.29	+23 32.1	2.336	3.149	12.0	18.0

368615 2004 SP_{4} 1 27.5 143°.36 3°.7/30.1 18

12 23	9 0.59	+ 5 10.9	2.282	3.043	13.6	22.1
1 2	8 55.76	+ 5 15.6	2.199	3.051	10.9	21.9
1 12	8 49.05	+ 5 35.5	2.138	3.058	7.8	21.7
1 22	8 41.02	+ 6 9.6	2.105	3.065	4.9	21.6
2 1	8 32.45	+ 6 55.4	2.101	3.072	3.8	21.5
2 11	8 24.26	+ 7 48.8	2.127	3.078	5.9	21.6
2 21	8 17.24	+ 8 45.2	2.181	3.084	8.9	21.8
3 2	8 12.04	+ 9 40.5	2.261	3.089	11.8	22.0

235447 2003 YB_{141} 1 27.5 44°.78 5°.7/24.1 18

12 23	9 4.45	+32 43.0	1.961	2.780	13.4	20.0
1 2	8 59.26	+33 39.2	1.898	2.788	10.4	19.8
1 12	8 51.49	+34 31.6	1.859	2.796	7.5	19.6
1 22	8 41.93	+35 12.9	1.848	2.805	5.7	19.5
2 1	8 31.73	+35 37.2	1.864	2.814	6.5	19.6
2 11	8 22.23	+35 41.4	1.907	2.823	9.1	19.8
2 21	8 14.53	+35 26.3	1.976	2.832	12.0	20.0
3 2	8 9.41	+34 54.7	2.066	2.842	14.6	20.2

175475 2006 QA_{166} 1 27.5 169°.94 3°.5/30.2 18

12 23	8 58.29	+ 4 52.9	2.699	3.454	11.9	20.9
1 2	8 53.79	+ 4 50.0	2.608	3.456	9.5	20.7
1 12	8 47.71	+ 4 59.8	2.542	3.457	6.9	20.5
1 22	8 40.52	+ 5 21.8	2.502	3.459	4.5	20.4
2 1	8 32.87	+ 5 54.3	2.492	3.460	3.6	20.3
2 11	8 25.49	+ 6 34.3	2.512	3.461	5.3	20.4
2 21	8 19.06	+ 7 18.5	2.561	3.462	7.9	20.6
3 2	8 14.13	+ 8 3.4	2.637	3.462	10.4	20.8

422851 2002 GO_{186} 1 27.5 318°.62 5°.1/30.1 18

12 23	8 59.10	+ 5 26.5	1.754	2.536	16.2	21.0
1 2	8 55.35	+ 4 59.5	1.659	2.522	13.2	20.8
1 12	8 49.18	+ 4 49.5	1.585	2.508	9.7	20.5
1 22	8 41.18	+ 4 57.4	1.536	2.495	6.4	20.3
2 1	8 32.28	+ 5 22.2	1.513	2.482	5.2	20.2
2 11	8 23.68	+ 6 0.2	1.517	2.470	7.7	20.3
2 21	8 16.50	+ 6 46.4	1.548	2.458	11.4	20.5
3 2	8 11.63	+ 7 35.3	1.601	2.446	15.0	20.7

92460 2000 KT_{39} 1 27.5 275°.46 0°.5/27.2 18

12 23	9 3.22	+16 41.3	1.489	2.310	16.8	19.9
1 2	8 59.02	+17 18.4	1.403	2.299	12.9	19.6
1 12	8 51.78	+18 9.3	1.338	2.289	8.2	19.3
1 22	8 42.18	+19 8.9	1.298	2.278	2.9	19.0
2 1	8 31.43	+20 10.1	1.285	2.267	2.7	18.9
2 11	8 21.09	+21 5.3	1.300	2.256	8.1	19.2
2 21	8 12.63	+21 49.3	1.340	2.246	13.1	19.5
3 2	8 7.13	+22 19.6	1.401	2.235	17.4	19.7

242619 2005 JL_{174} 1 27.5 304°.71 4°.9/24.1 18

12 23	9 2.47	+30 39.3	2.114	2.932	12.6	20.7
1 2	8 57.75	+31 38.4	2.033	2.925	9.7	20.5
1 12	8 50.58	+32 36.7	1.977	2.918	6.9	20.3
1 22	8 41.64	+33 27.4	1.948	2.910	5.0	20.2
2 1	8 31.92	+34 4.4	1.948	2.903	5.8	20.2
2 11	8 22.65	+34 23.6	1.976	2.896	8.6	20.4
2 21	8 14.90	+34 24.3	2.030	2.889	11.6	20.6
3 2	8 9.51	+34 8.3	2.106	2.883	14.3	20.7

48372 1182 $T\text{-}_{3}$ 1 27.5 210°.60 1°.8/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.54	+23 16.9	2.197	3.006	12.5	19.0
1 2	8 58.19	+23 32.4	2.114	3.006	9.4	18.8
1 12	8 50.67	+23 50.4	2.056	3.005	6.0	18.6
1 22	8 41.63	+24 6.8	2.026	3.004	2.5	18.4
2 1	8 31.98	+24 17.9	2.026	3.003	2.9	18.4
2 11	8 22.81	+24 20.7	2.055	3.002	6.4	18.6
2 21	8 15.06	+24 14.5	2.112	3.001	9.8	18.9
3 2	8 9.44	+23 59.5	2.193	3.000	12.9	19.0

414281 2008 KA_{43} 1 27.5 292°.67 0°.7/27.9 18

12 23	8 59.81	+12 22.4	1.777	2.582	15.2	20.4
1 2	8 56.10	+13 16.6	1.672	2.558	11.8	20.2
1 12	8 49.81	+14 29.4	1.589	2.535	7.7	19.9
1 22	8 41.47	+15 56.9	1.533	2.512	3.0	19.5
2 1	8 32.00	+17 32.5	1.506	2.489	2.2	19.4
2 11	8 22.65	+19 8.0	1.508	2.465	7.1	19.7
2 21	8 14.66	+20 35.7	1.537	2.442	11.8	19.9
3 2	8 9.09	+21 50.6	1.589	2.419	15.9	20.1

62523 2000 SW_{249} 1 27.5 202°.73 0°.5/27.8 18

12 23	9 1.44	+14 49.2	2.067	2.867	13.5	20.1
1 2	8 56.73	+15 16.2	1.981	2.865	10.4	19.9
1 12	8 49.83	+15 53.7	1.918	2.863	6.6	19.7
1 22	8 41.36	+16 38.4	1.882	2.861	2.5	19.4
2 1	8 32.19	+17 25.9	1.876	2.858	1.9	19.4
2 11	8 23.39	+18 11.5	1.900	2.856	6.0	19.6
2 21	8 15.92	+18 51.4	1.951	2.853	9.9	19.9
3 2	8 10.56	+19 23.2	2.027	2.850	13.2	20.1

154821 2004 QN_{12} 1 27.5 177°.39 5°.3/24.4 18

12 23	9 10.96	+31 24.8	2.045	2.851	13.4	21.3
1 2	9 4.18	+32 25.2	1.970	2.854	10.4	21.1
1 12	8 54.64	+33 23.3	1.920	2.856	7.4	20.9
1 22	8 43.10	+34 11.5	1.898	2.857	5.4	20.8
2 1	8 30.76	+34 42.9	1.905	2.858	6.2	20.9
2 11	8 19.04	+34 53.9	1.941	2.857	8.9	21.0
2 21	8 9.15	+34 45.0	2.004	2.856	12.1	21.2
3 2	8 2.00	+34 19.1	2.090	2.854	14.9	21.4

169178 2001 QH_{260} 1 27.5 31°.51 8°.1/ 2.4 18

12 23	8 57.13	− 4 58.1	1.880	2.612	17.1	19.5
1 2	8 53.47	− 5 28.4	1.811	2.625	14.5	19.3
1 12	8 47.73	− 5 34.4	1.762	2.640	11.8	19.2
1 22	8 40.57	− 5 14.4	1.735	2.655	9.4	19.0
2 1	8 32.87	− 4 29.3	1.734	2.670	8.1	19.0
2 11	8 25.65	− 3 23.6	1.759	2.687	8.8	19.1
2 21	8 19.80	− 2 3.9	1.809	2.703	10.9	19.2
3 2	8 15.98	− 0 37.8	1.883	2.720	13.5	19.4

453808 2011 SA_{67} 1 27.5 77°.40 1°.3/28.1 18

12 23	9 6.09	+13 39.8	1.521	2.328	17.2	21.1
1 2	9 0.58	+13 52.6	1.464	2.351	13.1	20.9
1 12	8 52.32	+14 18.8	1.428	2.373	8.5	20.6
1 22	8 42.22	+14 54.5	1.418	2.396	3.5	20.4
2 1	8 31.56	+15 34.2	1.436	2.418	2.4	20.4
2 11	8 21.75	+16 12.7	1.482	2.441	7.1	20.7
2 21	8 13.96	+16 45.7	1.555	2.463	11.5	21.0
3 2	8 8.93	+17 11.0	1.650	2.484	15.2	21.3

246315 2007 TA_{167} 1 27.5 121°.83 1°.2/28.1 18

12 23	9 5.17	+13 44.4	1.785	2.583	15.4	21.4
1 2	8 59.68	+13 56.4	1.712	2.595	11.8	21.2
1 12	8 51.72	+14 20.0	1.663	2.606	7.6	20.9
1 22	8 42.03	+14 52.2	1.640	2.617	3.2	20.7
2 1	8 31.69	+15 28.4	1.646	2.628	2.2	20.6
2 11	8 21.95	+16 4.1	1.682	2.639	6.5	20.9
2 21	8 13.90	+16 35.6	1.744	2.649	10.7	21.2
3 2	8 8.32	+17 0.4	1.830	2.658	14.2	21.4

242806 2006 BD_{93} 1 27.5 282°.31 0°.9/27.9 18

12 23	9 1.85	+13 21.7	1.528	2.342	16.8	20.3
1 2	8 57.93	+13 53.9	1.437	2.328	13.1	20.0
1 12	8 51.08	+14 43.1	1.367	2.314	8.5	19.7
1 22	8 41.95	+15 45.6	1.321	2.300	3.4	19.3
2 1	8 31.65	+16 55.0	1.304	2.286	2.4	19.2
2 11	8 21.68	+18 3.7	1.313	2.272	7.7	19.5
2 21	8 13.45	+19 5.0	1.349	2.258	12.7	19.8
3 2	8 8.03	+19 54.7	1.406	2.245	17.1	20.0

424282 2007 TG_{124} 1 27.5 63°.57 5°.3/23.8 18

12 23	9 3.36	+32 42.5	2.211	3.026	12.2	20.8
1 2	8 58.23	+33 42.9	2.144	3.031	9.5	20.6
1 12	8 50.78	+34 40.0	2.101	3.037	6.9	20.4
1 22	8 41.68	+35 27.4	2.086	3.042	5.3	20.4
2 1	8 31.96	+35 59.4	2.100	3.047	6.1	20.4
2 11	8 22.79	+36 12.9	2.142	3.053	8.5	20.6
2 21	8 15.18	+36 7.9	2.209	3.058	11.2	20.7
3 2	8 9.87	+35 46.7	2.299	3.064	13.6	20.9

105056 2000 KR_{58} 1 27.5 277°.26 0°.1/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 58.93	+15 18.2	2.236	3.037	12.6	20.1
1 2	8 54.76	+15 58.9	2.143	3.029	9.6	19.9
1 12	8 48.58	+16 50.0	2.074	3.020	6.1	19.7
1 22	8 40.92	+17 48.1	2.033	3.012	2.2	19.4
2 1	8 32.56	+18 48.5	2.022	3.004	1.8	19.3
2 11	8 24.48	+19 46.1	2.040	2.995	5.8	19.6
2 21	8 17.56	+20 36.9	2.087	2.987	9.4	19.8
3 2	8 12.55	+21 18.5	2.159	2.979	12.6	20.0

145682 3131 $T\text{-}_{2}$ 1 27.5 191°.35 6°.3/23.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.72	+35 39.0	2.154	2.958	12.9	19.8
1 2	9 3.25	+36 39.5	2.079	2.957	10.3	19.6
1 12	8 54.05	+37 34.6	2.029	2.955	7.8	19.4
1 22	8 42.90	+38 16.6	2.007	2.953	6.4	19.4
2 1	8 30.96	+38 39.1	2.013	2.950	7.2	19.4
2 11	8 19.64	+38 39.1	2.048	2.947	9.5	19.5
2 21	8 10.13	+38 17.8	2.108	2.943	12.2	19.7
3 2	8 3.30	+37 38.7	2.190	2.939	14.7	19.9

230480 2002 TY_{45} 1 27.5 107°.74 2°.6/26.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.95	+22 32.5	1.529	2.347	16.6	21.1
1 2	9 3.70	+23 14.8	1.470	2.365	12.5	20.8
1 12	8 54.40	+24 2.2	1.433	2.383	7.9	20.6
1 22	8 43.01	+24 47.6	1.423	2.401	3.4	20.4
2 1	8 30.93	+25 23.9	1.441	2.418	4.0	20.5
2 11	8 19.79	+25 46.1	1.488	2.434	8.4	20.8
2 21	8 10.89	+25 53.4	1.560	2.450	12.6	21.1
3 2	8 5.07	+25 46.9	1.654	2.466	16.2	21.3

126866 2002 EP_{85} 1 27.5 250°.26 1°.7/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.59	+21 34.8	2.224	3.032	12.4	20.2
1 2	8 57.61	+22 8.3	2.128	3.019	9.4	20.0
1 12	8 50.43	+22 47.0	2.057	3.006	6.0	19.7
1 22	8 41.61	+23 26.6	2.014	2.993	2.4	19.5
2 1	8 32.02	+24 2.4	2.001	2.979	2.8	19.5
2 11	8 22.73	+24 30.1	2.018	2.965	6.5	19.7
2 21	8 14.73	+24 47.6	2.062	2.951	10.1	19.9
3 2	8 8.81	+24 54.4	2.131	2.936	13.3	20.1

415790 2000 XF_{3} 1 27.5 63°.09 4°.0/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.96	+28 2.7	1.723	2.541	15.0	20.5
1 2	9 2.52	+28 36.0	1.676	2.569	11.4	20.4
1 12	8 53.40	+29 7.6	1.652	2.598	7.5	20.2
1 22	8 42.58	+29 30.9	1.655	2.626	4.3	20.1
2 1	8 31.37	+29 40.8	1.687	2.655	4.9	20.2
2 11	8 21.18	+29 35.0	1.747	2.683	8.2	20.4
2 21	8 13.10	+29 14.7	1.832	2.712	11.7	20.7
3 2	8 7.81	+28 42.4	1.941	2.740	14.6	20.9

426813 2013 TZ_{140} 1 27.5 217°.23 1°.3/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.94	+20 23.8	2.073	2.884	13.1	21.2
1 2	8 57.13	+20 53.0	1.991	2.883	9.9	21.0
1 12	8 50.10	+21 28.2	1.933	2.882	6.2	20.8
1 22	8 41.48	+22 4.9	1.902	2.882	2.4	20.6
2 1	8 32.19	+22 38.5	1.901	2.881	2.6	20.6
2 11	8 23.34	+23 5.1	1.930	2.880	6.4	20.8
2 21	8 15.90	+23 22.3	1.985	2.879	10.1	21.0
3 2	8 10.63	+23 29.5	2.065	2.879	13.3	21.2

518635 2008 HO_{3} 1 27.5 98°.27 4°.2/31.6 18 CR

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.66	− 0 45.4	3.259	3.964	11.0	24.3
1 2	8 56.56	− 0 46.9	3.196	4.004	9.0	24.2
1 12	8 49.19	− 0 35.2	3.157	4.042	6.9	24.1
1 22	8 41.02	− 0 10.9	3.147	4.080	5.0	24.1
2 1	8 32.63	+ 0 24.6	3.167	4.116	4.2	24.1
2 11	8 24.63	+ 1 8.6	3.220	4.152	5.1	24.2
2 21	8 17.56	+ 1 57.9	3.303	4.186	6.8	24.3
3 2	8 11.84	+ 2 49.1	3.413	4.220	8.7	24.5

330003 2005 TC_{131} 1 27.5 4°.00 5°.2/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.41	+28 43.5	1.622	2.452	15.2	20.3
1 2	8 59.00	+29 45.6	1.552	2.452	11.7	20.1
1 12	8 51.63	+30 48.4	1.506	2.452	8.0	19.9
1 22	8 42.10	+31 43.6	1.485	2.453	5.4	19.7
2 1	8 31.68	+32 23.2	1.491	2.454	6.3	19.8
2 11	8 21.94	+32 42.4	1.524	2.455	9.7	20.0
2 21	8 14.20	+32 40.5	1.582	2.457	13.4	20.2
3 2	8 9.38	+32 20.1	1.660	2.459	16.7	20.4

312212 2007 VV_{300} 1 27.5 100°.02 0°.8/27.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.18	+17 32.2	1.677	2.490	15.6	21.1
1 2	8 59.17	+18 17.6	1.609	2.502	11.8	20.8
1 12	8 51.52	+19 13.5	1.564	2.514	7.4	20.6
1 22	8 42.01	+20 14.2	1.546	2.526	2.6	20.3
2 1	8 31.78	+21 13.0	1.556	2.537	2.6	20.4
2 11	8 22.19	+22 3.8	1.595	2.549	7.2	20.7
2 21	8 14.39	+22 42.9	1.661	2.560	11.4	20.9
3 2	8 9.21	+23 9.1	1.749	2.571	15.0	21.2

418364 2008 GY_{117} 1 27.5 226°.44 4°.1/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.17	+28 8.9	2.156	2.968	12.6	21.8
1 2	8 59.75	+29 6.1	2.069	2.959	9.7	21.6
1 12	8 51.87	+30 4.5	2.007	2.950	6.6	21.4
1 22	8 42.17	+30 57.6	1.973	2.941	4.3	21.2
2 1	8 31.62	+31 39.2	1.968	2.931	5.1	21.2
2 11	8 21.46	+32 4.9	1.993	2.920	8.0	21.4
2 21	8 12.79	+32 13.5	2.044	2.909	11.3	21.6
3 2	8 6.47	+32 6.2	2.118	2.898	14.2	21.7

281719 2008 WK_{114} 1 27.5 142°.24 0°.8/27.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.23	+19 12.1	2.253	3.058	12.4	21.4
1 2	8 56.39	+19 37.2	2.171	3.060	9.3	21.2
1 12	8 49.54	+20 8.3	2.114	3.063	5.8	21.0
1 22	8 41.26	+20 41.8	2.085	3.065	2.1	20.8
2 1	8 32.41	+21 13.6	2.086	3.066	2.1	20.8
2 11	8 23.96	+21 40.2	2.116	3.068	5.8	21.0
2 21	8 16.80	+21 59.2	2.175	3.070	9.3	21.2
3 2	8 11.60	+22 9.8	2.258	3.072	12.3	21.4

127689 Doncapone 1 27.5 265°.97 2°.0/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.52	+10 55.2	1.615	2.416	16.6	19.7
1 2	8 58.32	+11 19.6	1.518	2.401	13.0	19.5
1 12	8 51.30	+12 2.1	1.443	2.384	8.7	19.2
1 22	8 42.06	+13 0.2	1.392	2.368	4.0	18.9
2 1	8 31.66	+14 8.7	1.370	2.351	2.7	18.7
2 11	8 21.51	+15 20.4	1.375	2.334	7.4	19.0
2 21	8 12.97	+16 28.5	1.407	2.317	12.3	19.2
3 2	8 7.11	+17 27.8	1.462	2.300	16.6	19.4

90687 1981 EY_{23} 1 27.5 237°.92 3°.8/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.27	+ 4 59.4	2.257	3.019	13.7	20.6
1 2	8 55.73	+ 5 8.3	2.155	3.008	11.0	20.3
1 12	8 49.20	+ 5 33.4	2.075	2.995	8.0	20.1
1 22	8 41.18	+ 6 14.1	2.022	2.983	5.0	19.9
2 1	8 32.43	+ 7 7.8	1.998	2.970	3.8	19.8
2 11	8 23.89	+ 8 10.3	2.004	2.957	6.1	19.9
2 21	8 16.46	+ 9 16.6	2.039	2.943	9.4	20.1
3 2	8 10.87	+10 21.9	2.099	2.929	12.5	20.3

122227 2000 OJ 1 27.5 213°.82 11°.5/ 4.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.30	−20 47.6	2.737	3.309	15.3	20.4
1 2	8 57.83	−22 12.6	2.641	3.301	14.2	20.3
1 12	8 50.45	−23 16.4	2.562	3.291	13.1	20.2
1 22	8 41.62	−23 54.1	2.504	3.281	12.1	20.1
2 1	8 32.06	−24 2.7	2.469	3.270	11.6	20.0
2 11	8 22.62	−23 41.9	2.457	3.258	11.7	20.0
2 21	8 14.16	−22 54.7	2.469	3.246	12.4	20.1
3 2	8 7.38	−21 46.5	2.502	3.233	13.5	20.1

73119 2002 GZ_{53} 1 27.5 161°.75 3°.3/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.76	+ 6 51.4	1.770	2.552	16.1	19.5
1 2	8 57.26	+ 7 15.5	1.687	2.555	12.8	19.3
1 12	8 50.33	+ 7 59.2	1.625	2.557	8.9	19.1
1 22	8 41.61	+ 9 0.2	1.590	2.559	4.9	18.9
2 1	8 32.10	+10 13.9	1.583	2.560	3.5	18.8
2 11	8 23.02	+11 33.6	1.605	2.562	6.8	19.0
2 21	8 15.45	+12 52.6	1.654	2.563	10.8	19.2
3 2	8 10.24	+14 5.1	1.727	2.564	14.5	19.4

488732 2004 RO_{25} 1 27.5 98°.20 1°.1/28.0 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.50	+14 7.3	1.642	2.442	16.4	22.4
1 2	9 1.50	+14 23.0	1.582	2.465	12.5	22.2
1 12	8 52.87	+14 50.7	1.544	2.488	8.0	22.0
1 22	8 42.46	+15 26.5	1.532	2.510	3.2	21.7
2 1	8 31.49	+16 5.4	1.550	2.532	2.2	21.7
2 11	8 21.32	+16 42.3	1.596	2.553	6.8	22.1
2 21	8 13.08	+17 13.5	1.669	2.573	11.1	22.4
3 2	8 7.51	+17 37.0	1.765	2.593	14.6	22.6

17819 1998 FK_{118} 1 27.5 328°.01 5°.8/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.87	− 0 27.7	2.392	3.129	13.7	18.8
1 2	8 53.72	− 0 52.9	2.301	3.127	11.4	18.6
1 12	8 47.81	− 1 1.6	2.233	3.126	8.9	18.4
1 22	8 40.64	− 0 52.7	2.189	3.124	6.7	18.3
2 1	8 32.93	− 0 26.9	2.173	3.122	5.8	18.2
2 11	8 25.50	+ 0 13.2	2.186	3.121	6.9	18.3
2 21	8 19.11	+ 1 3.4	2.225	3.120	9.2	18.4
3 2	8 14.40	+ 1 58.9	2.290	3.118	11.7	18.6

138244 2000 FJ_{38} 1 27.5 286°.37 2°.4/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.71	+10 18.4	1.748	2.546	15.7	20.2
1 2	8 56.63	+10 30.3	1.656	2.535	12.3	20.0
1 12	8 50.04	+10 58.2	1.585	2.524	8.3	19.7
1 22	8 41.56	+11 40.1	1.540	2.514	4.2	19.4
2 1	8 32.16	+12 32.2	1.523	2.503	2.9	19.3
2 11	8 23.08	+13 28.6	1.534	2.493	6.8	19.5
2 21	8 15.50	+14 24.0	1.572	2.483	11.2	19.8
3 2	8 10.31	+15 13.7	1.633	2.472	15.1	20.0

42767 1998 SJ_{150} 1 27.5 219°.50 4°.4/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 57.21	+ 2 9.6	2.801	3.543	11.8	19.3
1 2	8 52.97	+ 1 54.7	2.707	3.541	9.7	19.1
1 12	8 47.22	+ 1 53.0	2.636	3.539	7.3	19.0
1 22	8 40.41	+ 2 4.7	2.592	3.537	5.2	18.8
2 1	8 33.15	+ 2 28.8	2.576	3.534	4.4	18.8
2 11	8 26.12	+ 3 2.9	2.591	3.532	5.6	18.9
2 21	8 19.97	+ 3 43.8	2.633	3.530	7.9	19.0
3 2	8 15.24	+ 4 27.9	2.702	3.527	10.2	19.2

14078 1997 FQ_{3} 1 27.5 140°.56 1°.3/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.25	+19 49.8	1.713	2.522	15.5	19.2
1 2	9 2.23	+20 20.6	1.642	2.533	11.7	19.0
1 12	8 53.45	+20 58.7	1.594	2.543	7.3	18.8
1 22	8 42.73	+21 38.6	1.573	2.552	2.7	18.5
2 1	8 31.27	+22 14.3	1.581	2.561	2.8	18.5
2 11	8 20.50	+22 41.1	1.618	2.569	7.4	18.8
2 21	8 11.63	+22 56.9	1.682	2.577	11.6	19.1
3 2	8 5.51	+23 1.5	1.769	2.584	15.2	19.3

314736 2006 SB_{112} 1 27.5 87°.81 1°.2/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.79	+16 37.1	1.727	2.539	15.2	20.4
1 2	8 58.10	+17 54.7	1.660	2.553	11.5	20.1
1 12	8 50.86	+19 25.0	1.617	2.567	7.1	19.9
1 22	8 41.80	+21 0.9	1.601	2.581	2.6	19.7
2 1	8 32.02	+22 34.0	1.615	2.595	2.8	19.7
2 11	8 22.79	+23 56.6	1.658	2.609	7.3	20.0
2 21	8 15.26	+25 3.7	1.728	2.623	11.4	20.3
3 2	8 10.24	+25 53.7	1.821	2.636	14.8	20.5

189446 1998 VV_{8} 1 27.5 94°.23 0°.2/27.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.06	+17 34.4	1.540	2.348	17.0	20.0
1 2	9 3.57	+17 48.9	1.484	2.373	12.8	19.8
1 12	8 54.21	+18 12.3	1.450	2.398	8.0	19.6
1 22	8 42.96	+18 39.9	1.442	2.422	2.9	19.3
2 1	8 31.16	+19 6.2	1.463	2.445	2.4	19.3
2 11	8 20.34	+19 27.0	1.512	2.468	7.3	19.7
2 21	8 11.67	+19 39.8	1.588	2.490	11.7	20.0
3 2	8 5.93	+19 44.1	1.687	2.511	15.4	20.3

492780 2014 QS_{222} 1 27.5 206°.04 2°.6/29.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.96	+ 9 24.1	1.873	2.659	15.2	21.9
1 2	8 58.12	+ 9 39.1	1.783	2.655	12.0	21.7
1 12	8 50.87	+10 9.8	1.716	2.651	8.2	21.5
1 22	8 41.83	+10 54.3	1.675	2.647	4.2	21.2
2 1	8 31.97	+11 48.6	1.663	2.642	2.9	21.1
2 11	8 22.47	+12 47.3	1.680	2.637	6.6	21.3
2 21	8 14.42	+13 45.0	1.724	2.631	10.6	21.6
3 2	8 8.67	+14 37.4	1.793	2.625	14.3	21.8

108092 2001 FP_{177} 1 27.5 348°.26 0°.8/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.35	+15 46.8	1.281	2.114	18.3	19.4
1 2	8 57.11	+15 48.8	1.204	2.106	14.1	19.1
1 12	8 50.69	+16 4.0	1.148	2.100	9.1	18.8
1 22	8 41.86	+16 29.2	1.115	2.095	3.5	18.5
2 1	8 31.96	+16 58.9	1.108	2.091	2.6	18.4
2 11	8 22.68	+17 27.3	1.126	2.087	8.3	18.7
2 21	8 15.50	+17 49.9	1.167	2.085	13.5	19.0
3 2	8 11.47	+18 4.0	1.229	2.084	18.0	19.3

166091 2002 CV_{132} 1 27.5 247°.50 0°.6/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.39	+18 19.8	1.839	2.646	14.6	20.9
1 2	9 0.21	+18 42.3	1.742	2.631	11.2	20.6
1 12	8 52.34	+19 13.5	1.668	2.616	7.1	20.3
1 22	8 42.42	+19 49.2	1.621	2.601	2.6	20.0
2 1	8 31.49	+20 24.4	1.603	2.584	2.4	20.0
2 11	8 20.88	+20 54.1	1.614	2.568	7.1	20.2
2 21	8 11.83	+21 15.1	1.652	2.551	11.5	20.4
3 2	8 5.31	+21 26.2	1.713	2.533	15.4	20.6

70601 1999 TM_{187} 1 27.5 339°.58 0°.4/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.50	+17 17.4	1.518	2.336	16.7	19.0
1 2	8 59.79	+17 13.4	1.438	2.333	12.8	18.8
1 12	8 52.13	+17 18.5	1.380	2.330	8.2	18.5
1 22	8 42.33	+17 29.3	1.348	2.327	3.1	18.2
2 1	8 31.62	+17 41.6	1.343	2.325	2.4	18.1
2 11	8 21.51	+17 51.5	1.365	2.323	7.6	18.4
2 21	8 13.35	+17 56.2	1.412	2.322	12.3	18.7
3 2	8 8.06	+17 54.5	1.482	2.320	16.4	19.0

488832 2005 QX_{35} 1 27.5 136°.13 4°.2/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.14	+31 14.0	2.443	3.243	11.7	21.8
1 2	9 2.21	+31 55.3	2.378	3.259	9.0	21.7
1 12	8 53.10	+32 33.3	2.338	3.274	6.2	21.5
1 22	8 42.54	+33 2.5	2.327	3.288	4.3	21.4
2 1	8 31.50	+33 18.5	2.347	3.302	4.9	21.5
2 11	8 21.10	+33 18.9	2.397	3.315	7.3	21.6
2 21	8 12.25	+33 4.5	2.474	3.328	10.0	21.8
3 2	8 5.63	+32 37.5	2.576	3.339	12.4	22.0

241658 2000 JR_{10} 1 27.5 214°.43 6°.5/31.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.60	+ 0 9.7	2.044	2.782	15.7	21.7
1 2	8 59.20	− 0 24.1	1.945	2.773	13.1	21.5
1 12	8 51.50	− 0 39.8	1.868	2.764	10.2	21.3
1 22	8 42.08	− 0 35.6	1.816	2.754	7.6	21.1
2 1	8 31.80	− 0 11.5	1.791	2.743	6.5	21.1
2 11	8 21.77	+ 0 29.6	1.796	2.732	8.1	21.1
2 21	8 13.04	+ 1 22.9	1.827	2.719	11.0	21.3
3 2	8 6.44	+ 2 22.5	1.883	2.706	14.1	21.4

111115 2001 VW_{86} 1 27.5 19°.86 5°.3/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.61	+ 2 58.1	1.497	2.284	18.4	19.4
1 2	8 54.43	+ 3 9.1	1.425	2.290	14.9	19.2
1 12	8 48.68	+ 3 45.4	1.372	2.296	10.9	19.0
1 22	8 41.07	+ 4 46.3	1.343	2.303	7.0	18.8
2 1	8 32.68	+ 6 7.2	1.339	2.311	5.3	18.7
2 11	8 24.83	+ 7 40.3	1.363	2.320	7.8	18.9
2 21	8 18.66	+ 9 16.6	1.411	2.329	11.7	19.1
3 2	8 15.02	+10 48.0	1.483	2.339	15.4	19.3

194017 2001 SF_{33} 1 27.5 154°.67 1°.4/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.60	+12 50.0	1.763	2.558	15.7	21.4
1 2	9 0.16	+13 9.7	1.685	2.565	12.1	21.2
1 12	8 52.15	+13 42.7	1.629	2.572	7.9	21.0
1 22	8 42.30	+14 25.8	1.600	2.577	3.4	20.7
2 1	8 31.69	+15 14.1	1.601	2.582	2.3	20.6
2 11	8 21.61	+16 2.0	1.630	2.587	6.7	20.9
2 21	8 13.20	+16 45.1	1.686	2.591	11.0	21.2
3 2	8 7.31	+17 20.6	1.767	2.594	14.6	21.4

219162 1999 RZ_{232} 1 27.5 209°.02 1°.1/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.64	+18 41.5	1.751	2.557	15.3	20.5
1 2	9 2.00	+19 21.4	1.661	2.551	11.7	20.2
1 12	8 53.51	+20 11.2	1.596	2.544	7.4	20.0
1 22	8 42.86	+21 5.4	1.557	2.537	2.7	19.7
2 1	8 31.18	+21 57.5	1.548	2.528	2.8	19.7
2 11	8 19.91	+22 41.2	1.567	2.518	7.6	19.9
2 21	8 10.37	+23 13.2	1.614	2.508	12.0	20.2
3 2	8 3.56	+23 32.2	1.684	2.497	15.9	20.4

26837 Yoshitakaokazaki 1 27.5 216°.53 0°.6/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.89	+14 31.6	1.910	2.704	14.7	19.6
1 2	9 0.42	+14 57.8	1.814	2.695	11.3	19.3
1 12	8 52.40	+15 35.9	1.742	2.686	7.3	19.1
1 22	8 42.44	+16 22.6	1.697	2.675	2.8	18.8
2 1	8 31.54	+17 12.7	1.682	2.664	2.1	18.7
2 11	8 20.95	+18 0.9	1.696	2.652	6.7	19.0
2 21	8 11.84	+18 43.0	1.739	2.639	11.0	19.2
3 2	8 5.15	+19 16.4	1.805	2.625	14.7	19.4

373361 2012 KM_{43} 1 27.5 195°.60 0°.5/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.60	+17 39.0	2.189	2.992	12.8	21.5
1 2	8 56.80	+18 13.6	2.103	2.991	9.7	21.3
1 12	8 49.89	+18 56.4	2.041	2.989	6.1	21.1
1 22	8 41.47	+19 43.5	2.008	2.988	2.2	20.8
2 1	8 32.39	+20 30.0	2.004	2.986	2.0	20.8
2 11	8 23.66	+21 11.8	2.031	2.983	6.0	21.1
2 21	8 16.23	+21 45.6	2.085	2.981	9.6	21.3
3 2	8 10.81	+22 9.9	2.163	2.978	12.8	21.5

256039 2006 UO_{79} 1 27.5 229°.19 0°.7/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.63	+15 44.2	1.776	2.582	15.1	20.7
1 2	8 58.74	+15 52.0	1.693	2.581	11.6	20.5
1 12	8 51.30	+16 9.7	1.632	2.579	7.4	20.3
1 22	8 42.02	+16 34.3	1.598	2.577	2.9	20.0
2 1	8 31.94	+17 1.6	1.593	2.576	2.1	19.9
2 11	8 22.36	+17 27.3	1.616	2.574	6.7	20.2
2 21	8 14.39	+17 48.1	1.666	2.572	11.0	20.4
3 2	8 8.90	+18 2.1	1.739	2.570	14.7	20.7

27032 1998 RQ_{5} 1 27.5 160°.57 0°.6/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.01	+17 53.4	1.504	2.321	16.8	18.9
1 2	9 0.98	+18 17.8	1.428	2.323	12.8	18.7
1 12	8 52.92	+18 52.8	1.374	2.325	8.1	18.4
1 22	8 42.64	+19 33.2	1.346	2.326	2.9	18.1
2 1	8 31.44	+20 12.8	1.345	2.327	2.6	18.1
2 11	8 20.87	+20 45.7	1.372	2.328	7.9	18.4
2 21	8 12.31	+21 8.5	1.425	2.329	12.6	18.7
3 2	8 6.72	+21 20.1	1.499	2.330	16.6	18.9

459876 2014 HW_{37} 1 27.5 259°.94 1°.4/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.89	+18 29.3	1.504	2.325	16.7	21.4
1 2	9 0.43	+19 16.7	1.414	2.311	12.8	21.1
1 12	8 52.82	+20 17.1	1.345	2.297	8.1	20.8
1 22	8 42.71	+21 24.4	1.302	2.282	3.0	20.5
2 1	8 31.31	+22 30.4	1.287	2.267	3.3	20.4
2 11	8 20.26	+23 27.1	1.299	2.252	8.6	20.7
2 21	8 11.10	+24 9.5	1.336	2.237	13.6	21.0
3 2	8 5.00	+24 35.9	1.395	2.221	17.9	21.2

306104 2010 HE_{107} 1 27.5 193°.30 1°.2/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.06	+13 25.6	2.006	2.796	14.2	22.3
1 2	8 59.57	+13 41.7	1.917	2.795	11.0	22.0
1 12	8 51.72	+14 9.1	1.851	2.792	7.2	21.8
1 22	8 42.16	+14 45.1	1.812	2.789	3.0	21.5
2 1	8 31.83	+15 25.5	1.803	2.785	2.1	21.4
2 11	8 21.87	+16 5.8	1.825	2.781	6.2	21.7
2 21	8 13.35	+16 42.2	1.874	2.775	10.2	21.9
3 2	8 7.08	+17 12.3	1.948	2.769	13.7	22.1

180649 2004 GK_{30} 1 27.5 74°.42 5°.6/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.25	+ 3 4.5	1.768	2.536	16.7	19.7
1 2	8 56.79	+ 2 45.7	1.691	2.544	13.6	19.6
1 12	8 49.99	+ 2 46.7	1.636	2.551	10.1	19.4
1 22	8 41.52	+ 3 7.8	1.605	2.559	6.9	19.2
2 1	8 32.38	+ 3 46.9	1.602	2.567	5.6	19.1
2 11	8 23.73	+ 4 39.4	1.626	2.575	7.6	19.3
2 21	8 16.61	+ 5 39.4	1.676	2.583	10.9	19.5
3 2	8 11.77	+ 6 40.8	1.750	2.591	14.2	19.7

55491 2001 UU_{46} 1 27.5 141°.61 0°.3/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.17	+17 47.4	2.850	3.643	10.4	19.8
1 2	8 55.17	+18 14.2	2.770	3.652	7.8	19.7
1 12	8 48.59	+18 46.5	2.716	3.662	4.9	19.5
1 22	8 40.94	+19 21.4	2.691	3.671	1.7	19.3
2 1	8 32.87	+19 55.6	2.698	3.679	1.6	19.3
2 11	8 25.13	+20 26.4	2.736	3.687	4.7	19.5
2 21	8 18.39	+20 51.7	2.802	3.695	7.6	19.7
3 2	8 13.19	+21 10.3	2.895	3.703	10.1	19.9

315484 2007 YD_{66} 1 27.5 195°.75 0°.1/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.86	+16 52.8	1.816	2.624	14.8	21.6
1 2	8 58.88	+17 9.8	1.734	2.623	11.3	21.4
1 12	8 51.38	+17 36.1	1.675	2.622	7.2	21.1
1 22	8 42.05	+18 7.9	1.642	2.621	2.6	20.9
2 1	8 31.95	+18 40.7	1.638	2.620	2.1	20.8
2 11	8 22.32	+19 9.8	1.663	2.619	6.7	21.1
2 21	8 14.31	+19 32.2	1.715	2.617	10.9	21.3
3 2	8 8.74	+19 46.3	1.790	2.616	14.5	21.6

107593 2001 DG_{102} 1 27.5 246°.91 4°.3/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.89	+27 55.5	1.958	2.772	13.6	20.0
1 2	9 1.41	+28 51.0	1.865	2.756	10.5	19.7
1 12	8 53.14	+29 48.4	1.796	2.740	7.1	19.5
1 22	8 42.75	+30 40.7	1.755	2.724	4.5	19.3
2 1	8 31.33	+31 20.6	1.743	2.707	5.4	19.3
2 11	8 20.25	+31 43.3	1.760	2.689	8.7	19.5
2 21	8 10.83	+31 47.3	1.802	2.671	12.3	19.7
3 2	8 4.03	+31 34.2	1.867	2.653	15.6	19.8

135429 2001 UG_{121} 1 27.5 134°.88 5°.4/22.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.67	+37 6.0	2.906	3.703	10.1	20.7
1 2	8 58.80	+38 10.5	2.845	3.716	8.1	20.6
1 12	8 50.98	+39 9.4	2.810	3.728	6.3	20.5
1 22	8 41.83	+39 57.2	2.803	3.739	5.4	20.4
2 1	8 32.17	+40 29.6	2.827	3.750	6.0	20.5
2 11	8 22.96	+40 44.4	2.878	3.761	7.7	20.6
2 21	8 15.04	+40 42.0	2.957	3.771	9.6	20.8
3 2	8 9.04	+40 24.4	3.058	3.780	11.4	20.9

471161 2010 HM_{13} 1 27.5 291°.79 5°.1/29.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.93	+ 5 35.0	2.402	3.152	13.3	20.7
1 2	8 59.28	+ 4 32.5	2.279	3.122	10.9	20.4
1 12	8 51.52	+ 3 38.8	2.181	3.091	8.2	20.2
1 22	8 42.12	+ 2 55.6	2.111	3.060	5.8	20.0
2 1	8 31.84	+ 2 24.2	2.070	3.029	5.2	19.9
2 11	8 21.64	+ 2 4.3	2.060	2.998	7.1	20.0
2 21	8 12.45	+ 1 54.6	2.078	2.966	10.0	20.1
3 2	8 5.10	+ 1 52.7	2.122	2.935	13.0	20.2

460380 2014 SK_{37} 1 27.5 79°.49 2°.5/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.72	+22 33.9	1.677	2.498	15.2	21.4
1 2	8 59.70	+23 17.0	1.609	2.506	11.5	21.1
1 12	8 51.94	+24 5.4	1.564	2.515	7.3	20.9
1 22	8 42.25	+24 53.0	1.546	2.524	3.2	20.7
2 1	8 31.83	+25 33.0	1.556	2.532	3.8	20.7
2 11	8 22.08	+26 0.5	1.594	2.541	7.9	21.0
2 21	8 14.21	+26 13.8	1.658	2.550	11.9	21.3
3 2	8 9.05	+26 13.3	1.744	2.558	15.4	21.5

152213 2005 RS_{5} 1 27.5 131°.34 0°.4/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.77	+18 18.3	2.259	3.056	12.6	21.4
1 2	8 58.96	+18 41.2	2.186	3.070	9.5	21.3
1 12	8 51.11	+19 10.2	2.138	3.084	6.0	21.1
1 22	8 41.88	+19 41.7	2.118	3.098	2.1	20.8
2 1	8 32.14	+20 11.8	2.129	3.110	1.9	20.8
2 11	8 22.92	+20 37.0	2.170	3.123	5.7	21.1
2 21	8 15.06	+20 55.3	2.240	3.134	9.2	21.3
3 2	8 9.24	+21 5.9	2.335	3.145	12.1	21.6

341646 2007 VC_{44} 1 27.5 104°.44 6°.7/22.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.00	+38 40.8	2.360	3.163	11.9	20.5
1 2	9 0.29	+39 43.5	2.295	3.167	9.7	20.3
1 12	8 52.14	+40 38.9	2.255	3.171	7.7	20.2
1 22	8 42.29	+41 20.0	2.242	3.175	6.8	20.2
2 1	8 31.81	+41 41.5	2.257	3.179	7.5	20.2
2 11	8 21.92	+41 41.1	2.300	3.182	9.4	20.3
2 21	8 13.70	+41 19.9	2.367	3.186	11.6	20.5
3 2	8 7.89	+40 41.3	2.456	3.190	13.7	20.7

452793 2006 GT_{47} 1 27.5 287°.10 0°.6/27.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.16	+15 26.3	1.531	2.347	16.7	22.3
1 2	8 58.97	+15 40.9	1.439	2.332	12.9	22.0
1 12	8 51.80	+16 8.5	1.369	2.317	8.3	21.7
1 22	8 42.33	+16 45.6	1.323	2.302	3.2	21.3
2 1	8 31.69	+17 26.9	1.305	2.287	2.4	21.2
2 11	8 21.42	+18 6.4	1.314	2.273	7.8	21.5
2 21	8 12.92	+18 39.4	1.348	2.258	12.8	21.8
3 2	8 7.30	+19 3.2	1.404	2.243	17.1	22.0

331388 2012 FD_{11} 1 27.5 298°.67 0°.4/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.80	+18 22.9	1.704	2.520	15.2	20.6
1 2	8 58.42	+18 35.7	1.610	2.504	11.7	20.3
1 12	8 51.32	+18 57.1	1.538	2.488	7.4	20.1
1 22	8 42.12	+19 23.3	1.492	2.472	2.7	19.7
2 1	8 31.91	+19 49.4	1.475	2.457	2.4	19.7
2 11	8 22.06	+20 10.8	1.485	2.441	7.3	19.9
2 21	8 13.85	+20 24.5	1.521	2.426	11.9	20.2
3 2	8 8.26	+20 29.0	1.580	2.411	15.9	20.4

29203 Schnitger 1 27.5 351°.44 3°.1/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.87	+22 40.4	1.413	2.250	16.6	18.6
1 2	8 57.40	+23 28.3	1.339	2.245	12.6	18.3
1 12	8 50.84	+24 23.9	1.287	2.241	8.1	18.1
1 22	8 41.97	+25 19.8	1.260	2.238	3.7	17.8
2 1	8 32.09	+26 7.8	1.258	2.235	4.5	17.8
2 11	8 22.83	+26 41.3	1.283	2.233	9.1	18.1
2 21	8 15.61	+26 57.5	1.332	2.232	13.6	18.4
3 2	8 11.44	+26 56.8	1.401	2.232	17.6	18.6

419051 2009 RO_{46} 1 27.5 26°.93 1°.9/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.67	+12 54.7	1.523	2.337	16.8	21.0
1 2	8 56.68	+12 55.4	1.456	2.346	13.0	20.7
1 12	8 50.06	+13 10.0	1.411	2.356	8.5	20.5
1 22	8 41.59	+13 35.8	1.391	2.367	3.8	20.2
2 1	8 32.44	+14 8.4	1.397	2.379	2.6	20.2
2 11	8 23.96	+14 42.9	1.431	2.391	7.0	20.5
2 21	8 17.29	+15 14.7	1.490	2.404	11.4	20.8
3 2	8 13.22	+15 40.5	1.571	2.418	15.2	21.0

462703 2009 VB_{103} 1 27.5 188°.56 2°.4/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.19	+23 18.1	2.179	2.990	12.5	21.9
1 2	8 58.09	+24 1.7	2.097	2.989	9.5	21.7
1 12	8 50.76	+24 49.3	2.040	2.989	6.0	21.5
1 22	8 41.83	+25 35.8	2.011	2.988	2.8	21.3
2 1	8 32.23	+26 15.9	2.012	2.987	3.4	21.3
2 11	8 23.04	+26 45.6	2.042	2.985	6.8	21.5
2 21	8 15.24	+27 3.0	2.100	2.983	10.2	21.7
3 2	8 9.58	+27 8.1	2.182	2.981	13.2	21.9

63867 2001 RN_{115} 1 27.5 332°.35 0°.6/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.03	+18 17.0	2.206	3.013	12.5	19.5
1 2	8 55.61	+18 44.7	2.121	3.011	9.5	19.3
1 12	8 49.15	+19 19.5	2.061	3.009	6.0	19.0
1 22	8 41.24	+19 57.9	2.028	3.008	2.1	18.8
2 1	8 32.71	+20 35.6	2.025	3.007	2.0	18.8
2 11	8 24.56	+21 8.7	2.052	3.005	5.9	19.0
2 21	8 17.66	+21 34.5	2.106	3.004	9.4	19.2
3 2	8 12.71	+21 51.5	2.184	3.003	12.5	19.4

462665 2009 SD_{351} 1 27.5 179°.56 5°.1/23.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.50	+32 36.8	2.357	3.164	11.8	21.8
1 2	9 0.60	+33 40.9	2.282	3.165	9.2	21.6
1 12	8 52.35	+34 42.2	2.233	3.166	6.7	21.5
1 22	8 42.41	+35 34.3	2.212	3.166	5.2	21.4
2 1	8 31.78	+36 11.2	2.220	3.166	6.0	21.4
2 11	8 21.61	+36 29.6	2.258	3.165	8.3	21.5
2 21	8 12.94	+36 29.5	2.321	3.164	10.9	21.7
3 2	8 6.56	+36 12.8	2.408	3.163	13.4	21.9

417109 2005 UJ_{428} 1 27.5 18°.17 1°.4/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.37	+13 48.4	1.867	2.667	14.7	21.5
1 2	8 57.64	+13 49.1	1.784	2.668	11.4	21.3
1 12	8 50.56	+14 0.5	1.725	2.668	7.4	21.1
1 22	8 41.79	+14 20.4	1.692	2.669	3.2	20.8
2 1	8 32.30	+14 45.2	1.687	2.669	2.2	20.7
2 11	8 23.29	+15 11.0	1.712	2.670	6.3	21.0
2 21	8 15.78	+15 34.5	1.763	2.670	10.4	21.2
3 2	8 10.56	+15 53.3	1.838	2.671	13.9	21.5

167614 2004 CJ_{12} 1 27.5 5°.15 1°.9/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 58.05	+11 2.8	1.906	2.706	14.5	19.9
1 2	8 54.34	+11 21.7	1.825	2.706	11.3	19.7
1 12	8 48.46	+11 54.7	1.766	2.707	7.5	19.4
1 22	8 41.03	+12 39.4	1.733	2.708	3.6	19.2
2 1	8 32.92	+13 31.5	1.728	2.710	2.4	19.1
2 11	8 25.22	+14 26.1	1.752	2.712	6.1	19.4
2 21	8 18.88	+15 18.1	1.803	2.714	10.0	19.6
3 2	8 14.64	+16 3.9	1.878	2.717	13.4	19.8

138853 2000 WN_{13} 1 27.5 117°.18 3°.7/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.19	+24 15.8	1.517	2.335	16.7	20.5
1 2	9 4.83	+25 20.2	1.459	2.354	12.6	20.3
1 12	8 55.28	+26 29.1	1.424	2.372	8.1	20.1
1 22	8 43.51	+27 33.4	1.415	2.390	4.2	19.9
2 1	8 30.98	+28 24.4	1.435	2.407	5.0	20.0
2 11	8 19.38	+28 56.8	1.483	2.423	9.1	20.3
2 21	8 10.10	+29 9.7	1.556	2.438	13.2	20.6
3 2	8 4.02	+29 5.3	1.651	2.453	16.6	20.8

172013 2001 UB_{102} 1 27.5 220°.09 4°.7/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.31	+31 56.3	2.439	3.249	11.4	20.5
1 2	8 58.10	+32 48.0	2.361	3.247	8.8	20.3
1 12	8 50.73	+33 37.3	2.308	3.244	6.3	20.2
1 22	8 41.83	+34 18.5	2.283	3.242	4.7	20.1
2 1	8 32.30	+34 46.6	2.288	3.239	5.4	20.1
2 11	8 23.20	+34 58.5	2.322	3.236	7.7	20.2
2 21	8 15.47	+34 54.1	2.382	3.234	10.4	20.4
3 2	8 9.83	+34 35.0	2.465	3.231	12.8	20.6

366859 2005 SY_{43} 1 27.5 198°.09 1°.8/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.86	+10 57.0	2.667	3.437	11.6	22.2
1 2	8 57.38	+11 6.4	2.568	3.433	9.0	22.0
1 12	8 50.12	+11 25.5	2.494	3.428	6.1	21.8
1 22	8 41.59	+11 52.8	2.449	3.422	3.0	21.6
2 1	8 32.49	+12 25.6	2.436	3.415	2.1	21.5
2 11	8 23.63	+13 0.9	2.453	3.408	5.0	21.7
2 21	8 15.79	+13 35.6	2.501	3.399	8.1	21.9
3 2	8 9.60	+14 7.4	2.575	3.390	10.9	22.1

502462 2015 BE_{307} 1 27.5 21°.53 4°.8/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.25	+31 9.7	2.052	2.867	13.0	20.9
1 2	8 59.84	+31 49.0	1.979	2.869	10.1	20.7
1 12	8 51.93	+32 25.6	1.930	2.870	7.0	20.5
1 22	8 42.27	+32 53.2	1.908	2.871	4.9	20.4
2 1	8 31.96	+33 6.3	1.915	2.873	5.6	20.5
2 11	8 22.26	+33 2.4	1.950	2.875	8.3	20.6
2 21	8 14.26	+32 41.9	2.011	2.876	11.4	20.8
3 2	8 8.71	+32 7.1	2.094	2.878	14.2	21.0

288990 2004 TV_{60} 1 27.5 168°.49 0°.1/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.24	+16 21.6	2.010	2.806	14.0	22.2
1 2	9 0.45	+16 54.2	1.928	2.812	10.7	21.9
1 12	8 52.28	+17 36.5	1.871	2.816	6.7	21.7
1 22	8 42.41	+18 24.1	1.841	2.820	2.4	21.4
2 1	8 31.83	+19 12.1	1.841	2.823	2.0	21.4
2 11	8 21.70	+19 55.4	1.872	2.825	6.3	21.7
2 21	8 13.07	+20 30.8	1.930	2.826	10.3	21.9
3 2	8 6.74	+20 56.7	2.013	2.827	13.6	22.2

340727 2006 SP_{140} 1 27.5 106°.05 5°.1/23.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.62	+33 7.1	2.538	3.347	11.0	20.6
1 2	8 57.51	+34 24.0	2.474	3.358	8.6	20.5
1 12	8 50.33	+35 38.1	2.437	3.368	6.3	20.4
1 22	8 41.68	+36 42.9	2.428	3.378	5.1	20.3
2 1	8 32.44	+37 33.1	2.449	3.388	5.9	20.4
2 11	8 23.63	+38 5.3	2.498	3.398	8.0	20.5
2 21	8 16.15	+38 19.1	2.573	3.407	10.3	20.7
3 2	8 10.70	+38 16.3	2.672	3.417	12.4	20.8

203602 Danjoyce 1 27.5 5°.95 8°.4/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.75	+32 45.7	1.151	2.000	18.8	19.8
1 2	9 1.21	+34 0.7	1.094	2.000	14.8	19.5
1 12	8 53.64	+35 12.0	1.057	2.001	10.9	19.3
1 22	8 43.06	+36 6.9	1.042	2.003	8.5	19.2
2 1	8 31.35	+36 34.0	1.051	2.006	9.6	19.3
2 11	8 20.74	+36 28.5	1.083	2.010	13.2	19.5
2 21	8 13.05	+35 53.0	1.136	2.015	17.2	19.7
3 2	8 9.34	+34 54.0	1.207	2.022	20.8	20.0

315540 2008 BT_{34} 1 27.5 49°.53 4°.4/25.9 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.30	+28 36.7	1.435	2.262	17.0	20.7
1 2	9 4.17	+28 54.8	1.382	2.280	13.0	20.5
1 12	8 54.80	+29 10.3	1.350	2.298	8.6	20.2
1 22	8 43.31	+29 16.2	1.344	2.316	4.9	20.1
2 1	8 31.26	+29 6.9	1.365	2.336	5.4	20.2
2 11	8 20.41	+28 40.7	1.413	2.355	9.2	20.4
2 21	8 12.05	+27 59.8	1.485	2.375	13.2	20.7
3 2	8 6.96	+27 8.0	1.580	2.395	16.7	21.0

139437 2001 ON_{52} 1 27.5 58°.17 5°.4/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.07	+26 55.7	1.578	2.408	15.6	19.0
1 2	8 59.52	+28 37.1	1.523	2.423	11.8	18.8
1 12	8 52.01	+30 21.5	1.492	2.439	8.0	18.6
1 22	8 42.38	+31 58.4	1.487	2.455	5.4	18.5
2 1	8 31.93	+33 17.9	1.511	2.470	6.6	18.6
2 11	8 22.22	+34 13.5	1.561	2.487	10.0	18.8
2 21	8 14.56	+34 44.1	1.636	2.503	13.5	19.0
3 2	8 9.83	+34 52.0	1.731	2.519	16.5	19.3

138549 2000 QY_{21} 1 27.5 179°.02 3°.7/31.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.77	+ 1 57.4	3.089	3.823	10.9	21.0
1 2	8 53.30	+ 2 6.1	2.994	3.824	8.9	20.9
1 12	8 47.44	+ 2 28.0	2.922	3.825	6.7	20.7
1 22	8 40.61	+ 3 2.6	2.878	3.825	4.6	20.6
2 1	8 33.36	+ 3 48.3	2.864	3.826	3.7	20.5
2 11	8 26.33	+ 4 42.0	2.881	3.825	4.9	20.6
2 21	8 20.09	+ 5 40.3	2.927	3.824	7.1	20.8
3 2	8 15.16	+ 6 39.6	3.001	3.823	9.4	20.9

7588 1992 FJ_{1} 1 27.5 279°.55 2°.5/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.59	+27 3.3	2.443	3.245	11.6	16.6
1 2	9 0.46	+27 3.4	2.345	3.231	8.9	16.4
1 12	8 52.18	+27 2.0	2.272	3.217	5.8	16.2
1 22	8 42.38	+26 55.3	2.229	3.203	3.0	16.0
2 1	8 31.94	+26 40.3	2.216	3.189	3.3	16.0
2 11	8 21.92	+26 15.3	2.233	3.175	6.4	16.1
2 21	8 13.25	+25 40.6	2.279	3.161	9.6	16.3
3 2	8 6.66	+24 57.8	2.351	3.146	12.5	16.5

256030 2006 UA_{41} 1 27.5 7°.24 4°.0/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.23	+25 29.1	1.463	2.298	16.3	20.5
1 2	8 59.10	+26 18.7	1.395	2.298	12.4	20.3
1 12	8 51.87	+27 12.1	1.348	2.299	8.1	20.0
1 22	8 42.37	+28 1.4	1.326	2.301	4.5	19.8
2 1	8 31.95	+28 38.6	1.331	2.303	5.3	19.9
2 11	8 22.25	+28 58.4	1.363	2.306	9.4	20.1
2 21	8 14.67	+28 59.6	1.418	2.309	13.6	20.4
3 2	8 10.15	+28 43.8	1.494	2.313	17.2	20.6

163747 2003 ND_{2} 1 27.5 188°.45 0°.8/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.49	+19 0.2	2.023	2.823	13.7	20.9
1 2	9 0.70	+19 26.7	1.936	2.823	10.4	20.7
1 12	8 52.50	+20 0.4	1.874	2.822	6.6	20.4
1 22	8 42.54	+20 36.8	1.840	2.820	2.4	20.1
2 1	8 31.82	+21 11.1	1.836	2.817	2.3	20.1
2 11	8 21.53	+21 39.1	1.862	2.814	6.5	20.4
2 21	8 12.76	+21 58.3	1.916	2.810	10.5	20.6
3 2	8 6.32	+22 8.0	1.994	2.805	13.8	20.8

135234 2001 RT_{142} 1 27.5 103°.68 0°.2/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.17	+15 50.1	2.635	3.427	11.2	20.3
1 2	8 55.30	+16 40.3	2.564	3.446	8.4	20.1
1 12	8 48.76	+17 38.2	2.520	3.465	5.3	19.9
1 22	8 41.10	+18 40.2	2.504	3.483	1.9	19.7
2 1	8 33.02	+19 41.9	2.520	3.502	1.6	19.7
2 11	8 25.30	+20 39.3	2.567	3.519	4.9	20.0
2 21	8 18.65	+21 29.3	2.643	3.537	7.9	20.2
3 2	8 13.64	+22 10.2	2.746	3.554	10.5	20.4

398380 2011 SC_{119} 1 27.5 121°.80 1°.5/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.96	+20 40.5	1.765	2.574	15.1	21.4
1 2	9 1.95	+21 10.6	1.697	2.589	11.4	21.2
1 12	8 53.29	+21 46.8	1.654	2.603	7.1	21.0
1 22	8 42.80	+22 23.6	1.637	2.616	2.7	20.7
2 1	8 31.66	+22 55.3	1.649	2.629	2.9	20.8
2 11	8 21.24	+23 17.8	1.691	2.641	7.2	21.1
2 21	8 12.67	+23 29.2	1.759	2.653	11.2	21.3
3 2	8 6.74	+23 29.7	1.851	2.664	14.7	21.6

86008 1999 JQ_{91} 1 27.5 212°.04 0°.1/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.96	+15 38.1	2.447	3.239	11.9	20.6
1 2	8 56.95	+16 14.9	2.351	3.232	9.1	20.4
1 12	8 50.00	+17 0.9	2.279	3.224	5.8	20.2
1 22	8 41.62	+17 52.6	2.237	3.216	2.1	19.9
2 1	8 32.57	+18 45.8	2.225	3.207	1.7	19.9
2 11	8 23.76	+19 36.2	2.244	3.197	5.4	20.1
2 21	8 16.06	+20 20.4	2.292	3.187	8.9	20.3
3 2	8 10.15	+20 56.4	2.366	3.177	11.9	20.5

274018 2007 RB_{6} 1 27.5 196°.32 4°.1/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.18	+ 3 50.1	2.475	3.228	12.9	20.7
1 2	8 54.72	+ 3 46.8	2.382	3.227	10.4	20.5
1 12	8 48.51	+ 3 58.1	2.312	3.225	7.7	20.3
1 22	8 41.05	+ 4 23.6	2.269	3.223	5.1	20.1
2 1	8 33.04	+ 5 1.6	2.255	3.221	4.1	20.1
2 11	8 25.31	+ 5 48.8	2.270	3.218	5.8	20.2
2 21	8 18.59	+ 6 41.1	2.314	3.216	8.5	20.3
3 2	8 13.53	+ 7 34.4	2.384	3.213	11.3	20.5

112780 2002 PO_{160} 1 27.5 117°.61 0°.1/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 1.67	+16 44.8	2.320	3.117	12.3	21.1
1 2	8 56.66	+17 4.0	2.242	3.126	9.3	20.9
1 12	8 49.73	+17 30.3	2.190	3.135	5.9	20.7
1 22	8 41.48	+18 0.9	2.165	3.144	2.2	20.5
2 1	8 32.73	+18 31.9	2.171	3.153	1.7	20.5
2 11	8 24.40	+19 0.1	2.207	3.161	5.4	20.8
2 21	8 17.32	+19 22.9	2.271	3.170	8.8	21.0
3 2	8 12.12	+19 39.0	2.360	3.178	11.7	21.2

363083 2000 RZ_{27} 1 27.5 118°.11 6°.1/ 1.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.68	− 4 2.2	2.502	3.208	13.9	22.1
1 2	8 56.41	− 4 9.6	2.428	3.229	11.7	22.0
1 12	8 49.45	− 3 58.0	2.376	3.250	9.3	21.9
1 22	8 41.36	− 3 27.1	2.349	3.271	7.1	21.8
2 1	8 32.85	− 2 38.4	2.351	3.290	6.1	21.7
2 11	8 24.74	− 1 35.6	2.382	3.309	6.9	21.8
2 21	8 17.75	− 0 23.6	2.441	3.328	8.8	21.9
3 2	8 12.44	+ 0 52.1	2.527	3.345	11.0	22.1

234195 2000 QH_{153} 1 27.5 164°.03 0°.5/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.82	+15 31.5	2.073	2.864	13.8	21.1
1 2	9 0.78	+15 48.3	1.991	2.871	10.6	20.9
1 12	8 52.46	+16 14.0	1.933	2.877	6.8	20.6
1 22	8 42.51	+16 45.4	1.904	2.882	2.6	20.4
2 1	8 31.91	+17 18.4	1.904	2.886	1.9	20.3
2 11	8 21.78	+17 49.0	1.935	2.890	6.0	20.6
2 21	8 13.13	+18 14.3	1.995	2.893	9.9	20.8
3 2	8 6.71	+18 32.7	2.079	2.895	13.2	21.1

34855 2001 TT_{30} 1 27.5 131°.82 3°.0/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.72	+23 0.2	1.702	2.517	15.3	19.4
1 2	9 2.01	+24 1.0	1.635	2.529	11.5	19.2
1 12	8 53.47	+25 7.4	1.591	2.540	7.3	19.0
1 22	8 42.92	+26 12.1	1.575	2.551	3.6	18.8
2 1	8 31.59	+27 7.2	1.588	2.561	4.3	18.8
2 11	8 20.94	+27 47.2	1.629	2.571	8.2	19.1
2 21	8 12.21	+28 10.0	1.696	2.580	12.2	19.3
3 2	8 6.29	+28 16.7	1.786	2.588	15.5	19.6

437790 2015 CP_{40} 1 27.5 254°.96 1°.7/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.71	+10 44.8	2.320	3.106	12.7	20.9
1 2	8 54.53	+11 10.2	2.230	3.103	9.8	20.7
1 12	8 48.48	+11 48.1	2.163	3.100	6.6	20.5
1 22	8 41.08	+12 36.0	2.123	3.097	3.1	20.3
2 1	8 33.07	+13 30.4	2.113	3.094	2.1	20.2
2 11	8 25.35	+14 26.9	2.134	3.091	5.3	20.4
2 21	8 18.74	+15 21.2	2.183	3.088	8.8	20.6
3 2	8 13.89	+16 10.0	2.257	3.085	11.8	20.8

422693 2000 GP_{144} 1 27.5 230°.99 4°.0/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.42	+29 27.6	2.352	3.163	11.7	21.3
1 2	8 58.25	+30 14.3	2.270	3.159	9.0	21.1
1 12	8 50.89	+31 0.4	2.214	3.155	6.2	20.9
1 22	8 41.97	+31 40.2	2.185	3.151	4.1	20.8
2 1	8 32.39	+32 8.7	2.186	3.146	4.8	20.8
2 11	8 23.22	+32 22.7	2.216	3.142	7.4	21.0
2 21	8 15.42	+32 21.5	2.273	3.137	10.3	21.1
3 2	8 9.74	+32 6.3	2.354	3.132	13.0	21.3

301997 2000 QC_{117} 1 27.5 123°.08 0°.2/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.66	+15 42.0	1.881	2.678	14.8	22.0
1 2	9 0.77	+16 14.8	1.813	2.696	11.2	21.8
1 12	8 52.48	+16 57.7	1.768	2.714	7.1	21.6
1 22	8 42.53	+17 46.4	1.751	2.730	2.6	21.4
2 1	8 31.98	+18 35.5	1.764	2.746	2.0	21.4
2 11	8 22.05	+19 19.9	1.807	2.761	6.4	21.7
2 21	8 13.77	+19 56.3	1.877	2.776	10.4	21.9
3 2	8 7.90	+20 23.0	1.972	2.790	13.7	22.2

495248 2013 LA_{25} 1 27.6 101°.32 14°.4/ 8.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.63	−24 13.8	2.172	2.737	19.0	21.1
1 2	8 59.20	−26 2.3	2.111	2.754	17.7	21.0
1 12	8 51.52	−27 21.6	2.065	2.771	16.4	21.0
1 22	8 42.21	−28 6.1	2.037	2.788	15.3	20.9
2 1	8 32.22	−28 12.1	2.028	2.805	14.6	20.9
2 11	8 22.64	−27 40.6	2.040	2.821	14.5	20.9
2 21	8 14.48	−26 36.7	2.073	2.836	14.9	21.0
3 2	8 8.50	−25 8.1	2.125	2.852	15.7	21.1

207607 2006 QG_{130} 1 27.6 162°.19 0°.7/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.75	+18 26.7	2.793	3.589	10.5	21.0
1 2	8 55.02	+19 9.5	2.709	3.593	7.9	20.8
1 12	8 48.64	+19 58.5	2.650	3.597	4.9	20.6
1 22	8 41.12	+20 49.9	2.622	3.601	1.8	20.4
2 1	8 33.11	+21 40.1	2.624	3.604	1.8	20.4
2 11	8 25.38	+22 25.3	2.657	3.607	5.0	20.6
2 21	8 18.63	+23 3.2	2.720	3.610	7.9	20.8
3 2	8 13.44	+23 32.3	2.808	3.612	10.5	21.0

112917 2002 QQ_{61} 1 27.6 151°.51 0°.5/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 0.67	+15 10.4	2.242	3.039	12.7	20.5
1 2	8 56.05	+15 31.3	2.158	3.041	9.7	20.3
1 12	8 49.45	+16 1.1	2.098	3.042	6.2	20.1
1 22	8 41.45	+16 37.0	2.065	3.044	2.4	19.9
2 1	8 32.85	+17 15.2	2.063	3.045	1.7	19.8
2 11	8 24.63	+17 51.8	2.090	3.047	5.5	20.1
2 21	8 17.63	+18 23.7	2.146	3.048	9.1	20.3
3 2	8 12.54	+18 48.9	2.226	3.049	12.2	20.5

428948 2008 XS_{51} 1 27.6 86°.94 1°.8/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.19	+22 8.3	2.184	2.994	12.5	21.8
1 2	8 57.24	+22 44.0	2.112	3.004	9.4	21.6
1 12	8 50.19	+23 23.8	2.065	3.014	5.9	21.4
1 22	8 41.71	+24 3.2	2.045	3.023	2.5	21.2
2 1	8 32.67	+24 37.4	2.056	3.033	2.9	21.3
2 11	8 24.13	+25 3.0	2.096	3.043	6.3	21.5
2 21	8 16.97	+25 18.0	2.163	3.052	9.7	21.7
3 2	8 11.87	+25 22.4	2.255	3.062	12.6	21.9

246183 2007 RC_{57} 1 27.6 151°.02 0°.3/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.36	+17 55.7	2.039	2.835	13.8	21.0
1 2	9 1.21	+18 13.8	1.962	2.845	10.5	20.8
1 12	8 52.74	+18 39.1	1.909	2.855	6.6	20.6
1 22	8 42.65	+19 7.5	1.884	2.863	2.4	20.3
2 1	8 31.93	+19 34.9	1.889	2.871	2.0	20.3
2 11	8 21.75	+19 57.6	1.925	2.878	6.2	20.6
2 21	8 13.13	+20 13.2	1.989	2.884	10.0	20.8
3 2	8 6.81	+20 21.1	2.077	2.890	13.3	21.1

47851 2000 EW_{139} 1 27.6 343°.04 3°.9/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.80	+27 2.1	2.076	2.896	12.7	18.4
1 2	8 57.28	+28 5.0	1.999	2.894	9.7	18.2
1 12	8 50.42	+29 9.9	1.947	2.893	6.5	18.0
1 22	8 41.85	+30 10.5	1.922	2.892	4.1	17.9
2 1	8 32.54	+31 0.4	1.927	2.891	4.9	17.9
2 11	8 23.66	+31 34.9	1.959	2.890	7.9	18.1
2 21	8 16.25	+31 52.6	2.018	2.889	11.1	18.3
3 2	8 11.12	+31 54.1	2.100	2.888	14.0	18.5

478375 2011 YK_{70} 1 27.6 55°.65 11°.4/19.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.15	+27 53.7	0.951	1.809	21.2	20.0
1 2	9 4.14	+32 9.3	0.906	1.818	16.5	19.8
1 12	8 56.31	+36 35.8	0.884	1.828	12.5	19.6
1 22	8 44.39	+40 43.1	0.888	1.838	11.5	19.6
2 1	8 30.38	+44 2.5	0.916	1.849	14.1	19.7
2 11	8 17.22	+46 18.7	0.968	1.859	18.1	20.0
2 21	8 7.54	+47 33.2	1.037	1.870	22.1	20.3
3 2	8 2.98	+47 57.2	1.121	1.881	25.3	20.6

370533 2003 SD_{338} 1 27.6 98°.86 0°.7/27.2 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.91	+19 40.8	2.121	2.926	13.0	22.0
1 2	8 58.53	+19 51.7	2.047	2.935	9.9	21.8
1 12	8 51.00	+20 7.7	1.997	2.945	6.2	21.6
1 22	8 42.00	+20 25.3	1.974	2.954	2.2	21.4
2 1	8 32.47	+20 40.9	1.982	2.963	2.1	21.4
2 11	8 23.47	+20 51.5	2.019	2.972	6.0	21.7
2 21	8 15.91	+20 55.4	2.084	2.981	9.6	21.9
3 2	8 10.48	+20 52.4	2.173	2.990	12.7	22.1

126764 2002 DB_{12} 1 27.6 245°.30 0°.9/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.60	+14 15.0	1.894	2.691	14.7	20.3
1 2	8 59.59	+14 33.3	1.793	2.676	11.4	20.0
1 12	8 52.03	+15 3.5	1.716	2.660	7.4	19.7
1 22	8 42.50	+15 42.7	1.665	2.643	3.0	19.4
2 1	8 31.98	+16 26.5	1.643	2.626	2.1	19.3
2 11	8 21.70	+17 9.8	1.651	2.608	6.7	19.6
2 21	8 12.84	+17 48.3	1.686	2.590	11.1	19.8
3 2	8 6.37	+18 19.2	1.745	2.571	14.9	20.0

320420 2007 VL_{56} 1 27.6 137°.45 3°.0/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.39	+25 51.4	2.510	3.320	11.1	20.7
1 2	8 56.51	+26 47.0	2.435	3.325	8.4	20.5
1 12	8 49.71	+27 44.5	2.385	3.330	5.5	20.3
1 22	8 41.54	+28 38.8	2.364	3.336	3.2	20.2
2 1	8 32.82	+29 25.1	2.373	3.340	3.8	20.3
2 11	8 24.47	+29 59.6	2.412	3.345	6.5	20.4
2 21	8 17.32	+30 20.9	2.479	3.350	9.3	20.6
3 2	8 12.04	+30 29.3	2.570	3.354	11.9	20.8

429253 2010 BF_{61} 1 27.6 31°.36 8°.9/21.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.72	+43 30.3	2.083	2.882	13.5	20.6
1 2	9 2.87	+44 41.5	2.027	2.886	11.3	20.4
1 12	8 54.05	+45 40.9	1.993	2.891	9.6	20.3
1 22	8 43.17	+46 20.0	1.985	2.896	8.9	20.3
2 1	8 31.56	+46 32.7	2.004	2.902	9.6	20.4
2 11	8 20.78	+46 17.2	2.047	2.907	11.4	20.5
2 21	8 12.13	+45 36.3	2.114	2.913	13.5	20.6
3 2	8 6.43	+44 35.1	2.201	2.919	15.5	20.8

409488 2005 SP_{112} 1 27.6 71°.57 5°.7/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 1.03	+ 0 18.3	1.813	2.567	16.8	20.4
1 2	8 56.52	+ 0 24.0	1.747	2.588	13.8	20.3
1 12	8 49.81	+ 0 52.5	1.701	2.608	10.4	20.1
1 22	8 41.58	+ 1 43.1	1.680	2.629	7.2	20.0
2 1	8 32.81	+ 2 52.5	1.687	2.649	5.7	19.9
2 11	8 24.60	+ 4 14.4	1.721	2.670	7.3	20.0
2 21	8 17.89	+ 5 41.5	1.783	2.690	10.3	20.3
3 2	8 13.37	+ 7 7.1	1.870	2.710	13.4	20.5

496483 2014 SC_{310} 1 27.6 200°.01 6°.9/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.03	− 1 37.7	2.124	2.854	15.4	21.5
1 2	8 57.19	− 2 13.9	2.032	2.852	13.0	21.3
1 12	8 50.25	− 2 31.4	1.962	2.849	10.3	21.1
1 22	8 41.78	− 2 28.4	1.916	2.846	7.9	20.9
2 1	8 32.61	− 2 4.8	1.898	2.842	6.9	20.9
2 11	8 23.74	− 1 23.5	1.907	2.839	8.0	20.9
2 21	8 16.10	− 0 29.2	1.944	2.834	10.5	21.1
3 2	8 10.42	+ 0 32.4	2.005	2.829	13.2	21.2

315544 2008 BS_{43} 1 27.6 341°.58 2°.8/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.46	+12 2.4	1.372	2.192	18.1	20.4
1 2	8 57.08	+11 46.2	1.291	2.182	14.2	20.2
1 12	8 50.70	+11 45.1	1.229	2.174	9.6	19.9
1 22	8 42.06	+11 58.0	1.192	2.167	4.7	19.6
2 1	8 32.37	+12 21.7	1.179	2.160	3.4	19.5
2 11	8 23.19	+12 51.0	1.193	2.154	7.9	19.7
2 21	8 15.92	+13 21.0	1.230	2.149	12.9	20.0
3 2	8 11.57	+13 47.4	1.289	2.146	17.3	20.2

357218 2002 GK_{190} 1 27.6 276°.46 2°.5/28.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.84	+11 41.2	1.686	2.485	16.1	21.8
1 2	8 59.32	+11 33.9	1.585	2.465	12.7	21.5
1 12	8 52.03	+11 40.1	1.505	2.445	8.6	21.2
1 22	8 42.55	+11 58.5	1.450	2.424	4.3	20.9
2 1	8 31.94	+12 26.3	1.423	2.404	3.0	20.8
2 11	8 21.56	+12 58.9	1.425	2.383	7.3	21.0
2 21	8 12.72	+13 32.0	1.452	2.362	12.0	21.2
3 2	8 6.49	+14 1.6	1.502	2.341	16.2	21.4

496277 2012 TF_{175} 1 27.6 52°.29 3°.8/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.54	+ 5 24.1	2.259	3.026	13.5	21.5
1 2	8 54.36	+ 5 21.0	2.176	3.032	10.8	21.3
1 12	8 48.35	+ 5 32.7	2.117	3.037	7.8	21.1
1 22	8 41.05	+ 5 58.5	2.084	3.043	4.9	20.9
2 1	8 33.24	+ 6 36.1	2.079	3.049	3.9	20.9
2 11	8 25.77	+ 7 22.0	2.104	3.056	5.9	21.0
2 21	8 19.45	+ 8 11.7	2.156	3.062	8.8	21.2
3 2	8 14.90	+ 9 1.3	2.234	3.068	11.7	21.4

450990 2008 SO_{309} 1 27.6 127°.33 1°.7/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.19	+19 53.3	1.743	2.553	15.2	21.8
1 2	9 1.49	+20 44.9	1.675	2.567	11.5	21.6
1 12	8 53.10	+21 44.6	1.631	2.581	7.2	21.3
1 22	8 42.83	+22 46.0	1.614	2.593	2.8	21.1
2 1	8 31.83	+23 42.1	1.627	2.606	3.1	21.2
2 11	8 21.49	+24 27.2	1.669	2.617	7.4	21.4
2 21	8 12.97	+24 58.5	1.737	2.628	11.5	21.7
3 2	8 7.11	+25 15.9	1.828	2.639	14.9	21.9

363151 2001 SH_{36} 1 27.6 147°.14 4°.4/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.05	+ 1 41.3	2.522	3.257	13.1	22.3
1 2	8 56.77	+ 1 45.1	2.438	3.269	10.7	22.2
1 12	8 49.76	+ 2 4.8	2.377	3.281	8.0	22.0
1 22	8 41.55	+ 2 39.9	2.344	3.292	5.5	21.9
2 1	8 32.86	+ 3 28.3	2.340	3.302	4.4	21.8
2 11	8 24.51	+ 4 26.3	2.367	3.312	5.9	21.9
2 21	8 17.24	+ 5 29.3	2.423	3.320	8.4	22.1
3 2	8 11.65	+ 6 33.0	2.506	3.328	11.0	22.3

184094 2004 GF_{81} 1 27.6 226°.39 2°.8/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.08	+ 8 52.4	2.040	2.820	14.4	21.3
1 2	8 57.37	+ 8 57.4	1.945	2.813	11.3	21.1
1 12	8 50.45	+ 9 16.7	1.874	2.806	7.8	20.9
1 22	8 41.88	+ 9 48.9	1.829	2.798	4.3	20.6
2 1	8 32.55	+10 31.1	1.812	2.790	3.1	20.5
2 11	8 23.52	+11 19.0	1.826	2.782	6.2	20.7
2 21	8 15.77	+12 7.9	1.867	2.773	10.0	20.9
3 2	8 10.11	+12 53.9	1.932	2.764	13.4	21.1

237706 2001 UF_{111} 1 27.6 292°.39 6°.7/22.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.26	+37 47.5	2.323	3.129	12.0	20.5
1 2	8 59.89	+38 51.9	2.252	3.127	9.7	20.4
1 12	8 52.05	+39 50.0	2.205	3.124	7.6	20.2
1 22	8 42.45	+40 34.7	2.186	3.122	6.7	20.2
2 1	8 32.14	+41 0.3	2.194	3.120	7.4	20.2
2 11	8 22.36	+41 4.1	2.230	3.117	9.4	20.3
2 21	8 14.18	+40 46.8	2.291	3.115	11.7	20.5
3 2	8 8.42	+40 11.5	2.373	3.113	13.9	20.6

411456 2010 WO_{74} 1 27.6 37°.04 3°.0/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.82	+13 37.3	1.438	2.248	17.9	20.0
1 2	9 1.41	+12 46.6	1.375	2.261	13.9	19.8
1 12	8 53.10	+12 6.5	1.333	2.275	9.3	19.5
1 22	8 42.83	+11 36.6	1.315	2.289	4.7	19.3
2 1	8 31.92	+11 15.8	1.325	2.304	3.5	19.3
2 11	8 21.88	+11 1.9	1.362	2.320	7.6	19.5
2 21	8 13.95	+10 52.5	1.425	2.336	12.0	19.8
3 2	8 8.91	+10 45.3	1.509	2.353	15.8	20.1

321687 2010 EX_{103} 1 27.6 254°.99 3°.3/30.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.67	+ 6 10.7	2.441	3.206	12.7	21.6
1 2	8 54.44	+ 6 13.3	2.343	3.198	10.2	21.4
1 12	8 48.43	+ 6 29.6	2.267	3.190	7.3	21.2
1 22	8 41.12	+ 6 58.8	2.219	3.181	4.5	21.0
2 1	8 33.21	+ 7 38.8	2.200	3.173	3.4	21.0
2 11	8 25.53	+ 8 26.2	2.211	3.164	5.6	21.1
2 21	8 18.86	+ 9 17.0	2.250	3.155	8.6	21.2
3 2	8 13.86	+10 7.2	2.315	3.146	11.5	21.4

463936 2014 UV_{192} 1 27.6 101°.95 3°.3/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.79	+27 16.0	1.847	2.659	14.4	21.1
1 2	9 3.33	+27 29.5	1.777	2.668	11.0	20.9
1 12	8 54.18	+27 41.8	1.731	2.677	7.2	20.7
1 22	8 43.20	+27 47.4	1.712	2.686	3.8	20.5
2 1	8 31.62	+27 42.0	1.722	2.694	4.2	20.5
2 11	8 20.84	+27 23.3	1.761	2.703	7.7	20.7
2 21	8 11.99	+26 52.3	1.827	2.711	11.4	21.0
3 2	8 5.85	+26 11.4	1.916	2.720	14.6	21.2

243176 2007 TV_{139} 1 27.6 32°.95 11°.2/ 3.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.17	−10 49.0	1.903	2.593	18.2	19.4
1 2	8 55.88	−12 18.5	1.840	2.608	16.1	19.3
1 12	8 49.44	−13 22.7	1.794	2.624	14.0	19.2
1 22	8 41.49	−13 57.0	1.770	2.641	12.2	19.1
2 1	8 32.95	−13 59.5	1.770	2.658	11.3	19.1
2 11	8 24.90	−13 32.2	1.793	2.676	11.5	19.1
2 21	8 18.26	−12 40.6	1.839	2.694	12.8	19.2
3 2	8 13.74	−11 32.3	1.908	2.713	14.6	19.4

122836 2000 SO_{117} 1 27.6 142°.41 1°.8/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.82	+21 25.7	2.034	2.837	13.6	21.3
1 2	9 1.63	+22 8.4	1.963	2.850	10.3	21.1
1 12	8 53.05	+22 56.1	1.916	2.863	6.4	20.9
1 22	8 42.80	+23 43.6	1.897	2.875	2.7	20.7
2 1	8 31.92	+24 25.3	1.909	2.887	3.0	20.7
2 11	8 21.62	+24 56.8	1.951	2.897	6.8	21.0
2 21	8 12.93	+25 16.4	2.021	2.906	10.4	21.2
3 2	8 6.61	+25 24.1	2.115	2.915	13.5	21.4

234788 2002 QD_{20} 1 27.6 100°.53 3°.7/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.48	+ 5 37.5	2.356	3.117	13.2	20.7
1 2	8 55.69	+ 5 31.5	2.279	3.131	10.5	20.5
1 12	8 49.12	+ 5 39.2	2.226	3.145	7.6	20.4
1 22	8 41.34	+ 6 0.0	2.200	3.159	4.8	20.2
2 1	8 33.10	+ 6 31.7	2.203	3.173	3.7	20.2
2 11	8 25.26	+ 7 11.0	2.236	3.186	5.7	20.3
2 21	8 18.58	+ 7 54.0	2.297	3.199	8.5	20.5
3 2	8 13.64	+ 8 37.0	2.383	3.212	11.3	20.7

207373 2005 LB_{39} 1 27.6 205°.02 0°.2/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.29	+16 14.5	2.502	3.299	11.5	20.9
1 2	8 54.90	+16 57.2	2.413	3.297	8.7	20.7
1 12	8 48.71	+17 48.5	2.349	3.295	5.5	20.5
1 22	8 41.23	+18 44.9	2.314	3.293	2.0	20.2
2 1	8 33.16	+19 42.1	2.309	3.291	1.7	20.2
2 11	8 25.37	+20 35.8	2.335	3.288	5.3	20.5
2 21	8 18.63	+21 22.5	2.390	3.286	8.5	20.7
3 2	8 13.59	+22 0.4	2.470	3.283	11.4	20.8

432048 2008 XN_{21} 1 27.6 51°.78 4°.4/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.65	+26 15.8	1.952	2.774	13.3	20.3
1 2	8 57.24	+27 53.5	1.892	2.789	10.1	20.2
1 12	8 50.42	+29 34.2	1.858	2.804	6.7	20.0
1 22	8 41.89	+31 9.7	1.851	2.819	4.5	19.9
2 1	8 32.65	+32 31.7	1.875	2.835	5.5	20.0
2 11	8 23.94	+33 34.8	1.926	2.851	8.4	20.2
2 21	8 16.80	+34 16.8	2.004	2.867	11.6	20.4
3 2	8 12.03	+34 38.8	2.103	2.883	14.3	20.6

97788 2000 NP_{5} 1 27.6 104°.98 3°.6/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.35	+ 7 46.4	1.838	2.610	16.0	19.8
1 2	9 1.19	+ 7 39.2	1.774	2.635	12.6	19.6
1 12	8 52.70	+ 7 47.3	1.733	2.660	8.7	19.4
1 22	8 42.65	+ 8 9.5	1.718	2.684	5.0	19.2
2 1	8 32.10	+ 8 42.5	1.732	2.707	3.7	19.2
2 11	8 22.24	+ 9 21.8	1.776	2.730	6.6	19.4
2 21	8 14.05	+10 3.0	1.848	2.752	10.2	19.7
3 2	8 8.24	+10 42.1	1.944	2.772	13.4	19.9

453570 2010 DJ_6 1 27.6 324°.40 0°.8/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.86	+15 40.0	1.273	2.102	18.6	21.2
1 2	8 59.24	+15 45.5	1.193	2.093	14.4	20.9
1 12	8 52.27	+16 4.9	1.132	2.083	9.3	20.6
1 22	8 42.72	+16 34.7	1.095	2.075	3.6	20.2
2 1	8 31.95	+17 9.3	1.084	2.066	2.6	20.1
2 11	8 21.72	+17 42.1	1.097	2.059	8.5	20.5
2 21	8 13.63	+18 8.4	1.135	2.052	13.9	20.7
3 2	8 8.84	+18 25.3	1.193	2.045	18.6	21.0

193965 2001 RE_{90} 1 27.6 129°.39 3°.6/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.85	+25 28.5	1.718	2.532	15.2	21.4
1 2	9 3.62	+26 20.5	1.653	2.546	11.5	21.2
1 12	8 54.51	+27 15.0	1.612	2.559	7.5	21.0
1 22	8 43.38	+28 4.5	1.598	2.572	4.1	20.8
2 1	8 31.52	+28 41.9	1.613	2.584	4.7	20.9
2 11	8 20.43	+29 2.8	1.657	2.595	8.4	21.1
2 21	8 11.37	+29 6.6	1.726	2.606	12.2	21.4
3 2	8 5.19	+28 55.3	1.818	2.616	15.5	21.6

372763 2010 CP_{92} 1 27.6 109°.38 0°.7/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.48	+18 50.1	2.330	3.133	12.1	21.0
1 2	8 56.58	+19 17.0	2.254	3.141	9.1	20.9
1 12	8 49.75	+19 50.0	2.202	3.150	5.7	20.7
1 22	8 41.60	+20 25.3	2.178	3.158	2.1	20.4
2 1	8 32.92	+20 59.1	2.185	3.166	2.0	20.4
2 11	8 24.67	+21 27.9	2.222	3.174	5.6	20.7
2 21	8 17.67	+21 49.4	2.287	3.182	8.9	20.9
3 2	8 12.55	+22 2.6	2.376	3.190	11.8	21.1

341366 2007 TJ_{93} 1 27.6 345°.09 3°.3/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.71	+ 7 12.7	2.189	2.965	13.6	20.9
1 2	8 54.63	+ 7 10.8	2.101	2.963	10.8	20.8
1 12	8 48.61	+ 7 22.8	2.035	2.962	7.7	20.5
1 22	8 41.21	+ 7 48.1	1.995	2.960	4.6	20.4
2 1	8 33.21	+ 8 24.2	1.985	2.959	3.5	20.3
2 11	8 25.53	+ 9 7.4	2.003	2.958	5.9	20.4
2 21	8 19.01	+ 9 53.6	2.049	2.957	9.1	20.6
3 2	8 14.34	+10 38.7	2.120	2.956	12.2	20.8

462091 2007 HJ_4 1 27.6 190°.83 3°.8/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.99	+29 11.5	2.524	3.329	11.2	21.9
1 2	8 59.32	+30 0.1	2.442	3.328	8.6	21.7
1 12	8 51.55	+30 48.1	2.386	3.326	5.9	21.6
1 22	8 42.28	+31 30.2	2.358	3.324	3.9	21.4
2 1	8 32.39	+32 1.6	2.361	3.321	4.5	21.5
2 11	8 22.89	+32 19.0	2.394	3.317	7.1	21.6
2 21	8 14.68	+32 21.9	2.454	3.314	9.8	21.8
3 2	8 8.49	+32 11.3	2.538	3.309	12.3	22.0

473541 2015 XJ_{185} 1 27.6 12°.60 1°.8/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.75	+11 5.6	1.374	2.190	18.2	20.8
1 2	8 57.24	+11 37.7	1.301	2.191	14.2	20.6
1 12	8 50.79	+12 30.0	1.247	2.193	9.4	20.3
1 22	8 42.13	+13 38.6	1.218	2.195	4.2	20.0
2 1	8 32.50	+14 56.5	1.215	2.198	2.7	19.9
2 11	8 23.43	+16 15.0	1.239	2.201	7.7	20.2
2 21	8 16.29	+17 26.5	1.288	2.204	12.7	20.5
3 2	8 12.05	+18 25.9	1.358	2.208	16.9	20.8

125599 2001 XM_{45} 1 27.6 29°.06 4°.0/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.26	+26 21.8	1.337	2.170	17.7	19.4
1 2	9 3.16	+26 49.0	1.272	2.174	13.5	19.2
1 12	8 54.58	+27 17.7	1.227	2.178	8.8	18.9
1 22	8 43.49	+27 39.9	1.207	2.182	4.7	18.7
2 1	8 31.48	+27 48.4	1.213	2.187	5.3	18.8
2 11	8 20.42	+27 39.6	1.246	2.192	9.7	19.0
2 21	8 11.85	+27 13.8	1.302	2.198	14.2	19.3
3 2	8 6.73	+26 34.3	1.379	2.204	18.1	19.6

14666 1999 CG_{17} 1 27.6 293°.67 1°.0/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.71	+18 8.2	2.175	2.982	12.7	17.5
1 2	8 55.54	+19 2.0	2.087	2.978	9.6	17.3
1 12	8 49.29	+20 4.9	2.025	2.974	6.0	17.1
1 22	8 41.50	+21 12.2	1.990	2.970	2.2	16.8
2 1	8 33.01	+22 18.4	1.986	2.966	2.4	16.8
2 11	8 24.82	+23 18.1	2.011	2.962	6.2	17.1
2 21	8 17.86	+24 7.5	2.063	2.958	9.8	17.3
3 2	8 12.89	+24 44.8	2.140	2.954	12.9	17.5

389329 2009 SP_{267} 1 27.6 104°.70 0°.9/27.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.65	+18 55.8	1.410	2.227	17.8	21.0
1 2	9 3.81	+19 19.4	1.348	2.242	13.5	20.8
1 12	8 54.77	+19 52.1	1.307	2.257	8.5	20.5
1 22	8 43.51	+20 28.2	1.292	2.272	3.1	20.2
2 1	8 31.48	+21 0.9	1.304	2.286	2.9	20.3
2 11	8 20.37	+21 25.0	1.344	2.299	8.1	20.6
2 21	8 11.55	+21 38.1	1.410	2.313	12.8	20.9
3 2	8 5.91	+21 40.1	1.497	2.325	16.8	21.2

468668 2008 YJ_{152} 1 27.6 189°.14 0°.5/27.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 58.93	+13 29.2	2.456	3.247	11.9	21.5
1 2	8 54.66	+14 15.8	2.367	3.247	9.1	21.3
1 12	8 48.58	+15 13.2	2.303	3.246	5.8	21.1
1 22	8 41.21	+16 18.2	2.268	3.246	2.3	20.9
2 1	8 33.25	+17 26.2	2.263	3.245	1.6	20.8
2 11	8 25.57	+18 32.4	2.289	3.244	5.2	21.1
2 21	8 18.93	+19 32.8	2.344	3.244	8.5	21.3
3 2	8 14.00	+20 24.7	2.424	3.243	11.4	21.5

492761 2014 QQ_{171} 1 27.6 109°.29 6°.2/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.00	+34 56.7	1.971	2.777	13.9	21.7
1 2	9 5.01	+35 48.2	1.914	2.794	10.9	21.5
1 12	8 55.24	+36 33.0	1.882	2.811	8.0	21.4
1 22	8 43.61	+37 3.6	1.877	2.828	6.3	21.3
2 1	8 31.44	+37 14.1	1.900	2.844	7.0	21.4
2 11	8 20.16	+37 2.6	1.952	2.860	9.4	21.6
2 21	8 10.97	+36 31.2	2.029	2.875	12.2	21.8
3 2	8 4.61	+35 44.2	2.129	2.890	14.7	22.0

417116 2005 UF_{487} 1 27.6 105°.23 2°.5/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.68	+10 45.6	2.064	2.845	14.2	21.7
1 2	8 59.04	+10 37.4	1.994	2.863	11.0	21.6
1 12	8 51.32	+10 40.6	1.946	2.881	7.4	21.4
1 22	8 42.18	+10 53.7	1.926	2.898	3.8	21.2
2 1	8 32.54	+11 14.0	1.936	2.914	2.8	21.1
2 11	8 23.46	+11 38.2	1.975	2.931	5.9	21.4
2 21	8 15.82	+12 3.1	2.043	2.947	9.4	21.6
3 2	8 10.27	+12 25.9	2.135	2.962	12.5	21.8

88746 2001 SY_{51} 1 27.6 217°.78 6°.8/23.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.95	+34 8.4	1.883	2.700	14.0	19.6
1 2	9 1.66	+35 25.7	1.812	2.698	11.1	19.4
1 12	8 53.45	+36 39.6	1.765	2.696	8.3	19.3
1 22	8 43.07	+37 40.9	1.744	2.694	6.8	19.2
2 1	8 31.78	+38 21.9	1.751	2.692	7.7	19.2
2 11	8 21.08	+38 38.2	1.785	2.690	10.3	19.4
2 21	8 12.29	+38 30.5	1.844	2.687	13.3	19.5
3 2	8 6.37	+38 2.2	1.923	2.685	16.0	19.7

194733 2001 YH_5 1 27.6 112°.81 3°.3/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.29	+23 22.8	1.617	2.435	15.8	20.3
1 2	9 2.58	+24 26.7	1.555	2.451	11.9	20.1
1 12	8 53.93	+25 36.0	1.517	2.466	7.6	19.9
1 22	8 43.22	+26 42.6	1.505	2.481	3.8	19.7
2 1	8 31.75	+27 38.4	1.523	2.496	4.5	19.8
2 11	8 21.05	+28 17.6	1.568	2.509	8.5	20.1
2 21	8 12.40	+28 38.7	1.639	2.523	12.5	20.3
3 2	8 6.67	+28 42.8	1.732	2.536	15.9	20.6

283026 2007 VH_{284} 1 27.6 250°.78 7°.0/ 1.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.49	− 4 15.4	2.535	3.243	13.7	20.6
1 2	8 55.01	− 5 2.0	2.438	3.236	11.7	20.4
1 12	8 48.79	− 5 32.1	2.362	3.229	9.6	20.2
1 22	8 41.30	− 5 43.5	2.312	3.222	7.8	20.1
2 1	8 33.22	− 5 35.7	2.288	3.215	7.0	20.1
2 11	8 25.36	− 5 10.1	2.292	3.208	7.8	20.1
2 21	8 18.47	− 4 30.2	2.324	3.201	9.6	20.2
3 2	8 13.19	− 3 40.7	2.379	3.193	11.8	20.3

221900 2008 KD_{31} 1 27.6 104°.04 3°.3/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.29	+ 6 43.1	2.005	2.780	14.8	21.1
1 2	8 56.66	+ 6 56.2	1.929	2.791	11.7	20.9
1 12	8 49.93	+ 7 25.7	1.875	2.802	8.2	20.7
1 22	8 41.72	+ 8 9.9	1.847	2.813	4.7	20.5
2 1	8 32.93	+ 9 5.3	1.848	2.823	3.4	20.4
2 11	8 24.58	+10 6.6	1.878	2.834	6.1	20.6
2 21	8 17.58	+11 8.8	1.936	2.844	9.6	20.8
3 2	8 12.63	+12 7.2	2.019	2.854	12.8	21.1

29550 1998 BE_{44} 1 27.6 71°.15 2°.8/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.95	+21 11.1	1.733	2.551	14.9	17.6
1 2	8 59.07	+22 36.6	1.676	2.573	11.2	17.4
1 12	8 51.62	+24 9.6	1.644	2.595	7.0	17.2
1 22	8 42.37	+25 42.0	1.640	2.617	3.3	17.0
2 1	8 32.46	+27 5.0	1.664	2.638	4.1	17.1
2 11	8 23.22	+28 12.3	1.718	2.660	7.9	17.4
2 21	8 15.75	+29 0.9	1.798	2.681	11.6	17.6
3 2	8 10.84	+29 30.8	1.900	2.703	14.7	17.9

456807 2007 TW_{304} 1 27.6 54°.41 4°.6/30.3 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.31	+ 4 44.2	1.302	2.095	20.3	21.0
1 2	8 59.57	+ 5 4.2	1.256	2.127	16.0	20.8
1 12	8 51.97	+ 5 49.7	1.229	2.159	11.2	20.6
1 22	8 42.47	+ 6 57.6	1.226	2.192	6.6	20.4
2 1	8 32.44	+ 8 20.9	1.249	2.225	4.7	20.4
2 11	8 23.39	+ 9 50.3	1.299	2.258	7.8	20.7
2 21	8 16.50	+11 16.9	1.374	2.290	12.0	21.0
3 2	8 12.49	+12 34.2	1.472	2.323	15.8	21.3

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
85702 1998 RA_{74}			1 27.6 120°30		2°3/26.6 18	
	h m	° ′			°	m
12 23	9 11.28	+23 8.0	1.604	2.417	16.2	19.7
1 2	9 4.77	+23 28.3	1.538	2.430	12.2	19.5
1 12	8 55.28	+23 52.2	1.495	2.444	7.8	19.3
1 22	8 43.71	+24 13.5	1.478	2.456	3.3	19.0
2 1	8 31.45	+24 26.7	1.490	2.468	3.6	19.1
2 11	8 20.06	+24 28.4	1.531	2.480	8.0	19.4
2 21	8 10.84	+24 17.9	1.598	2.491	12.2	19.6
3 2	8 4.62	+23 57.0	1.687	2.502	15.8	19.9
295325 2008 GH_{143}			1 27.6 263°80		2°8/25.7 18	
12 23	9 2.58	+22 7.6	1.855	2.674	14.1	20.4
1 2	8 58.20	+23 15.6	1.770	2.667	10.7	20.1
1 12	8 51.24	+24 31.7	1.710	2.660	6.8	19.9
1 22	8 42.32	+25 49.1	1.676	2.653	3.3	19.7
2 1	8 32.47	+27 0.1	1.671	2.645	4.1	19.7
2 11	8 22.97	+27 58.1	1.696	2.638	7.9	19.9
2 21	8 15.03	+28 39.5	1.746	2.631	11.8	20.1
3 2	8 9.55	+29 3.9	1.819	2.623	15.2	20.3
26013 Amandalonzo			1 27.6 153°04		1°7/28.5 18	
12 23	9 6.60	+11 53.2	1.713	2.505	16.2	19.6
1 2	9 1.10	+12 14.7	1.635	2.514	12.5	19.4
1 12	8 52.96	+12 51.0	1.580	2.521	8.2	19.2
1 22	8 42.90	+13 38.7	1.552	2.528	3.7	18.9
2 1	8 32.05	+14 32.7	1.552	2.534	2.4	18.8
2 11	8 21.75	+15 27.0	1.582	2.539	6.8	19.1
2 21	8 13.16	+16 16.7	1.638	2.544	11.2	19.4
3 2	8 7.15	+16 58.4	1.719	2.548	14.9	19.6
379067 2008 WY_{91}			1 27.6 63°13		1°4/26.7 18	
12 23	9 2.29	+20 28.0	2.003	2.815	13.4	20.8
1 2	8 57.48	+21 1.6	1.937	2.830	10.1	20.6
1 12	8 50.46	+21 41.0	1.895	2.844	6.3	20.4
1 22	8 41.93	+22 21.4	1.880	2.859	2.4	20.2
2 1	8 32.87	+22 58.0	1.894	2.873	2.6	20.3
2 11	8 24.36	+23 26.7	1.938	2.888	6.4	20.5
2 21	8 17.36	+23 45.4	2.008	2.903	10.0	20.8
3 2	8 12.53	+23 53.7	2.103	2.918	13.1	21.0
348449 2005 QU_{173}			1 27.6 136°54		3°8/25.6 18	
12 23	9 11.34	+26 6.8	1.770	2.581	15.0	21.1
1 2	9 4.71	+26 59.8	1.705	2.595	11.4	20.9
1 12	8 55.21	+27 54.5	1.664	2.609	7.4	20.7
1 22	8 43.71	+28 43.4	1.650	2.623	4.2	20.6
2 1	8 31.48	+29 19.5	1.666	2.635	4.9	20.6
2 11	8 20.03	+29 38.5	1.710	2.646	8.4	20.9
2 21	8 10.60	+29 40.2	1.781	2.657	12.1	21.1
3 2	8 4.04	+29 26.8	1.875	2.667	15.3	21.3
125093 2001 UB_{26}			1 27.6 71°56		2°3/26.7 18	
12 23	9 10.63	+23 0.8	1.366	2.190	17.8	19.2
1 2	9 4.57	+23 17.5	1.311	2.209	13.5	19.0
1 12	8 55.24	+23 38.3	1.277	2.228	8.5	18.8
1 22	8 43.70	+23 56.5	1.269	2.248	3.5	18.5
2 1	8 31.53	+24 6.2	1.288	2.267	3.8	18.6
2 11	8 20.48	+24 4.0	1.334	2.286	8.5	18.9
2 21	8 11.90	+23 49.6	1.405	2.305	13.1	19.2
3 2	8 6.61	+23 24.9	1.498	2.324	16.9	19.5
15707 1988 RN_{4}			1 27.6 252°46		3°0/25.9 18	
12 23	9 8.13	+26 21.0	2.176	2.981	12.8	18.6
1 2	9 2.13	+26 46.5	2.074	2.962	9.8	18.4
1 12	8 53.61	+27 13.1	1.997	2.942	6.4	18.1
1 22	8 43.18	+27 35.5	1.947	2.921	3.4	17.9
2 1	8 31.83	+27 48.6	1.928	2.900	4.0	17.9
2 11	8 20.80	+27 49.2	1.939	2.878	7.4	18.1
2 21	8 11.22	+27 36.3	1.977	2.855	11.0	18.2
3 2	8 4.01	+27 11.3	2.039	2.832	14.2	18.4
153413 2001 QN_{147}			1 27.6 39°43		2°6/25.9 17	
12 23	9 2.00	+18 20.4	1.306	2.140	17.9	19.1
1 2	8 58.15	+20 3.1	1.261	2.166	13.4	18.9
1 12	8 51.27	+21 58.3	1.239	2.194	8.3	18.6
1 22	8 42.29	+23 55.3	1.243	2.222	3.4	18.4
2 1	8 32.63	+25 42.1	1.273	2.250	4.3	18.6
2 11	8 23.88	+27 9.4	1.331	2.280	8.9	18.9
2 21	8 17.33	+28 13.0	1.413	2.310	13.2	19.2
3 2	8 13.79	+28 53.1	1.516	2.340	16.8	19.5
218880 2007 BO_{22}			1 27.6 180°83		1°9/26.1 18	
12 23	9 3.16	+20 33.8	2.227	3.032	12.5	20.6
1 2	8 58.14	+21 39.5	2.143	3.033	9.4	20.4
1 12	8 50.95	+22 52.6	2.085	3.033	5.9	20.2
1 22	8 42.16	+24 7.4	2.056	3.033	2.6	20.0
2 1	8 32.65	+25 17.8	2.057	3.033	3.1	20.0
2 11	8 23.47	+26 18.2	2.088	3.032	6.6	20.2
2 21	8 15.58	+27 5.5	2.148	3.031	10.0	20.4
3 2	8 9.75	+27 38.7	2.232	3.029	13.0	20.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
93772 2000 WH_{25}			1 27.6 305°08		0°9/27.0 18	
	h m	° ′			°	m
12 23	9 1.04	+17 35.2	1.897	2.709	14.1	19.2
1 2	8 56.84	+18 22.6	1.813	2.705	10.7	18.9
1 12	8 50.27	+19 20.5	1.752	2.702	6.7	18.7
1 22	8 41.95	+20 23.9	1.719	2.698	2.4	18.4
2 1	8 32.83	+21 26.8	1.714	2.695	2.4	18.4
2 11	8 24.08	+22 23.2	1.739	2.692	6.7	18.7
2 21	8 16.78	+23 9.0	1.790	2.689	10.8	18.9
3 2	8 11.75	+23 42.2	1.865	2.686	14.2	19.1
492563 2014 OD_{147}			1 27.6 196°67		0°2/27.7 18	
12 23	9 4.50	+14 42.5	1.933	2.730	14.4	22.3
1 2	8 59.42	+15 27.2	1.845	2.728	11.1	22.1
1 12	8 51.89	+16 24.8	1.780	2.725	7.1	21.9
1 22	8 42.55	+17 30.6	1.743	2.722	2.6	21.6
2 1	8 32.35	+18 39.0	1.735	2.717	2.0	21.5
2 11	8 22.50	+19 43.6	1.758	2.713	6.5	21.8
2 21	8 14.10	+20 39.6	1.808	2.707	10.7	22.0
3 2	8 8.01	+21 24.5	1.882	2.701	14.2	22.2
289394 2005 CJ_{38}			1 27.6 70°92		10°1/ 4.0 18	
12 23	9 3.74	−10 44.7	1.002	1.753	27.7	20.5
1 2	9 0.22	− 9 45.9	0.941	1.770	23.7	20.2
1 12	8 53.02	− 7 49.4	0.894	1.786	18.8	20.0
1 22	8 43.06	− 4 53.2	0.866	1.803	13.8	19.8
2 1	8 31.99	− 1 6.8	0.861	1.820	10.3	19.6
2 11	8 21.81	+ 3 7.1	0.883	1.837	11.3	19.7
2 21	8 14.23	+ 7 20.5	0.930	1.854	15.4	20.0
3 2	8 10.36	+11 10.9	1.001	1.871	19.9	20.4
376504 2012 KT_{46}			1 27.6 248°66		3°6/24.6 17	
12 23	9 3.49	+25 21.7	2.290	3.099	12.0	21.0
1 2	8 58.62	+26 45.4	2.192	3.083	9.2	20.8
1 12	8 51.42	+28 14.8	2.121	3.066	6.1	20.5
1 22	8 42.40	+29 43.0	2.079	3.049	3.8	20.4
2 1	8 32.44	+31 2.8	2.067	3.031	4.7	20.4
2 11	8 22.62	+32 8.2	2.086	3.013	7.7	20.5
2 21	8 14.02	+32 56.0	2.132	2.994	11.0	20.7
3 2	8 7.54	+33 25.8	2.201	2.975	13.9	20.9
219372 2000 SB_{42}			1 27.6 122°70		3°3/29.7 18	
12 23	9 3.23	+ 7 44.0	2.236	3.004	13.6	20.8
1 2	8 57.88	+ 7 33.5	2.159	3.017	10.8	20.6
1 12	8 50.60	+ 7 35.8	2.106	3.031	7.6	20.5
1 22	8 41.98	+ 7 50.0	2.079	3.044	4.5	20.3
2 1	8 32.87	+ 8 13.8	2.082	3.056	3.4	20.2
2 11	8 24.20	+ 8 44.1	2.115	3.068	5.8	20.4
2 21	8 16.80	+ 9 17.3	2.177	3.079	8.9	20.6
3 2	8 11.30	+ 9 50.2	2.264	3.091	11.8	20.8
483777 2005 UQ_{316}			1 27.6 141°49		14°8/ 2.7 18	
12 23	9 8.69	−10 29.4	1.357	2.067	23.5	21.8
1 2	9 3.36	−12 32.6	1.289	2.074	20.9	21.7
1 12	8 54.76	−14 5.3	1.238	2.080	18.2	21.5
1 22	8 43.69	−14 58.7	1.206	2.086	16.0	21.4
2 1	8 31.47	−15 6.9	1.196	2.092	14.9	21.3
2 11	8 19.84	−14 31.2	1.207	2.097	15.4	21.4
2 21	8 10.30	−13 19.8	1.240	2.101	17.3	21.5
3 2	8 3.97	−11 44.7	1.292	2.105	19.8	21.7
205255 2000 RY_{46}			1 27.6 83°95		1°0/27.1 18	
12 23	9 9.35	+19 28.6	1.567	2.379	16.5	19.8
1 2	9 3.17	+19 50.4	1.512	2.404	12.5	19.6
1 12	8 54.17	+20 19.4	1.479	2.428	7.8	19.4
1 22	8 43.30	+20 50.1	1.473	2.453	2.8	19.2
2 1	8 31.90	+21 16.9	1.496	2.477	2.7	19.2
2 11	8 21.44	+21 35.6	1.547	2.500	7.4	19.6
2 21	8 13.09	+21 44.6	1.624	2.524	11.6	19.9
3 2	8 7.60	+21 43.7	1.724	2.546	15.2	20.2
294192 2007 TK_{413}			1 27.6 199°86		4°1/24.4 18	
12 23	9 2.19	+28 23.8	2.347	3.160	11.7	20.5
1 2	8 57.42	+29 32.6	2.269	3.160	8.9	20.3
1 12	8 50.50	+30 42.5	2.216	3.158	6.1	20.1
1 22	8 42.01	+31 47.3	2.192	3.157	4.2	20.0
2 1	8 32.83	+32 41.0	2.197	3.156	5.0	20.0
2 11	8 24.00	+33 19.4	2.232	3.154	7.6	20.2
2 21	8 16.48	+33 41.1	2.293	3.153	10.4	20.4
3 2	8 11.02	+33 46.8	2.378	3.151	13.0	20.5
127639 2003 CO_{8}			1 27.6 292°23		15°2/20.7 18	
12 23	9 28.18	+52 39.5	1.494	2.269	18.9	19.1
1 2	9 20.27	+54 1.4	1.422	2.249	17.1	18.9
1 12	9 6.49	+55 1.8	1.369	2.229	15.7	18.8
1 22	8 48.15	+55 23.3	1.337	2.209	15.2	18.7
2 1	8 28.07	+54 52.6	1.326	2.190	16.0	18.7
2 11	8 9.86	+53 27.8	1.338	2.170	17.9	18.7
2 21	7 56.21	+51 17.9	1.369	2.150	20.4	18.9
3 2	7 48.31	+48 37.7	1.418	2.131	22.9	19.0

241077 2006 TJ_{69} 1 27.6 186°.20 2°.2/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 0.15	+22 55.8	2.544	3.352	11.0	20.2
1 2	8 55.64	+23 54.5	2.461	3.352	8.3	20.1
1 12	8 49.26	+24 57.7	2.404	3.352	5.3	19.9
1 22	8 41.53	+26 0.4	2.376	3.352	2.6	19.7
2 1	8 33.21	+26 57.8	2.378	3.351	3.2	19.7
2 11	8 25.19	+27 45.5	2.411	3.350	6.1	19.9
2 21	8 18.27	+28 21.4	2.472	3.350	9.1	20.1
3 2	8 13.11	+28 44.7	2.557	3.349	11.7	20.3

58296 1994 LF_{1} 1 27.6 227°.89 12°.8/ 6.3 18

12 23	9 2.84	−26 18.8	2.780	3.303	15.8	19.9
1 2	8 57.73	−27 47.7	2.685	3.291	15.0	19.8
1 12	8 50.66	−28 53.7	2.605	3.278	14.1	19.7
1 22	8 42.09	−29 31.9	2.543	3.264	13.3	19.6
2 1	8 32.73	−29 38.4	2.501	3.250	12.9	19.5
2 11	8 23.46	−29 12.7	2.480	3.236	12.9	19.5
2 21	8 15.15	−28 17.5	2.481	3.221	13.3	19.5
3 2	8 8.55	−26 58.1	2.501	3.205	14.2	19.5

172921 2005 GX_{138} 1 27.6 205°.22 4°.7/24.0 18

12 23	9 4.60	+33 9.2	2.618	3.422	10.9	20.9
1 2	8 59.06	+33 58.9	2.537	3.419	8.5	20.8
1 12	8 51.43	+34 45.5	2.483	3.415	6.2	20.6
1 22	8 42.33	+35 23.5	2.457	3.411	4.8	20.5
2 1	8 32.61	+35 48.2	2.461	3.407	5.4	20.6
2 11	8 23.29	+35 56.8	2.494	3.403	7.5	20.7
2 21	8 15.27	+35 49.3	2.553	3.398	10.0	20.8
3 2	8 9.27	+35 27.5	2.636	3.393	12.3	21.0

160805 2000 VQ_{32} 1 27.6 60°.18 1°.0/28.1 18

12 23	9 5.59	+14 0.6	1.362	2.178	18.3	20.0
1 2	9 0.64	+14 22.1	1.309	2.201	14.0	19.8
1 12	8 52.74	+14 58.5	1.277	2.224	9.0	19.6
1 22	8 42.83	+15 44.8	1.270	2.248	3.6	19.3
2 1	8 32.29	+16 34.4	1.289	2.272	2.4	19.3
2 11	8 22.70	+17 20.9	1.336	2.296	7.5	19.7
2 21	8 15.27	+17 59.6	1.408	2.320	12.2	20.0
3 2	8 10.80	+18 28.1	1.502	2.343	16.0	20.3

205594 2001 TT_{199} 1 27.6 152°.54 2°.0/25.9 18 R

12 23	9 1.55	+23 39.4	2.762	3.564	10.4	20.7
1 2	8 56.47	+24 21.5	2.683	3.571	7.8	20.6
1 12	8 49.66	+25 6.1	2.630	3.577	5.0	20.4
1 22	8 41.65	+25 49.3	2.607	3.583	2.4	20.2
2 1	8 33.16	+26 27.1	2.615	3.588	2.8	20.3
2 11	8 25.01	+26 56.5	2.653	3.593	5.6	20.4
2 21	8 17.93	+27 15.8	2.720	3.598	8.3	20.6
3 2	8 12.52	+27 24.8	2.812	3.602	10.8	20.8

318082 2004 GP_{20} 1 27.6 227°.16 8°.0/22.2 18

12 23	9 9.25	+38 23.5	2.000	2.808	13.6	20.7
1 2	9 3.51	+39 47.1	1.928	2.802	11.1	20.6
1 12	8 54.72	+41 4.2	1.879	2.795	8.9	20.4
1 22	8 43.65	+42 5.4	1.856	2.788	8.0	20.3
2 1	8 31.56	+42 42.8	1.861	2.781	8.9	20.4
2 11	8 20.05	+42 52.5	1.893	2.774	11.1	20.5
2 21	8 10.50	+42 35.7	1.948	2.767	13.7	20.6
3 2	8 3.91	+41 56.8	2.024	2.759	16.2	20.8

465186 2007 FB_{46} 1 27.6 345°.97 9°.2/22.4 18

12 23	9 5.89	+38 1.6	1.561	2.388	15.9	21.0
1 2	9 1.59	+39 25.0	1.496	2.382	13.0	20.8
1 12	8 53.79	+40 41.0	1.452	2.376	10.4	20.7
1 22	8 43.36	+41 38.2	1.432	2.371	9.2	20.6
2 1	8 31.84	+42 7.4	1.438	2.366	10.2	20.6
2 11	8 21.10	+42 4.4	1.467	2.363	12.8	20.8
2 21	8 12.77	+41 31.3	1.519	2.360	15.8	20.9
3 2	8 7.89	+40 33.8	1.590	2.357	18.6	21.1

296899 2010 CO_{7} 1 27.6 224°.61 5°.1/ 1.0 18

12 23	8 58.11	− 1 54.8	2.987	3.701	11.7	21.4
1 2	8 53.76	− 2 5.2	2.882	3.692	9.8	21.3
1 12	8 47.93	− 2 0.8	2.800	3.682	7.8	21.1
1 22	8 41.05	− 1 41.1	2.744	3.672	5.9	21.0
2 1	8 33.66	− 1 6.7	2.717	3.661	5.1	20.9
2 11	8 26.44	− 0 19.9	2.719	3.650	5.9	21.0
2 21	8 20.01	+ 0 35.6	2.750	3.639	7.9	21.1
3 2	8 14.92	+ 1 36.0	2.808	3.628	10.0	21.2

453878 2011 UC_{133} 1 27.6 155°.97 0°.2/27.7 18

12 23	9 7.03	+16 19.6	2.028	2.822	14.0	22.6
1 2	9 1.07	+16 40.0	1.949	2.831	10.6	22.4
1 12	8 52.79	+17 9.0	1.894	2.839	6.8	22.2
1 22	8 42.86	+17 43.1	1.867	2.846	2.5	21.9
2 1	8 32.27	+18 17.7	1.870	2.853	1.9	21.9
2 11	8 22.19	+18 48.9	1.904	2.858	6.1	22.2
2 21	8 13.62	+19 13.7	1.965	2.863	10.0	22.4
3 2	8 7.32	+19 30.8	2.051	2.867	13.3	22.6

419068 2009 SL_{49} 1 27.6 111°.54 4°.8/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 1.71	+ 2 34.1	2.087	2.840	14.9	21.8
1 2	8 56.90	+ 2 32.7	2.010	2.854	12.1	21.6
1 12	8 50.07	+ 2 49.3	1.956	2.867	9.0	21.4
1 22	8 41.84	+ 3 23.6	1.928	2.880	6.0	21.3
2 1	8 33.07	+ 4 13.0	1.928	2.893	4.8	21.2
2 11	8 24.73	+ 5 13.0	1.957	2.905	6.5	21.4
2 21	8 17.69	+ 6 18.1	2.014	2.917	9.5	21.6
3 2	8 12.62	+ 7 23.3	2.096	2.929	12.4	21.8

286001 2001 SH_{87} 1 27.6 99°.54 2°.4/26.1 18

12 23	9 4.41	+25 35.2	2.346	3.153	11.9	20.8
1 2	8 58.84	+25 55.7	2.273	3.162	9.0	20.6
1 12	8 51.23	+26 16.9	2.224	3.171	5.8	20.4
1 22	8 42.25	+26 34.5	2.204	3.179	2.9	20.2
2 1	8 32.77	+26 44.7	2.214	3.188	3.3	20.3
2 11	8 23.81	+26 45.2	2.254	3.196	6.3	20.5
2 21	8 16.24	+26 35.6	2.322	3.204	9.4	20.7
3 2	8 10.69	+26 16.6	2.414	3.213	12.1	20.9

520079 2013 XD_{27} 1 27.6 69°.08 1°.2/28.3 18

12 23	9 2.21	+14 42.9	2.295	3.086	12.6	21.1
1 2	8 57.10	+14 33.7	2.218	3.097	9.7	20.9
1 12	8 50.11	+14 32.0	2.166	3.108	6.3	20.7
1 22	8 41.84	+14 35.8	2.142	3.119	2.7	20.5
2 1	8 33.10	+14 43.1	2.148	3.129	1.9	20.5
2 11	8 24.81	+14 51.2	2.183	3.140	5.3	20.7
2 21	8 17.79	+14 58.2	2.247	3.151	8.6	20.9
3 2	8 12.64	+15 2.5	2.336	3.162	11.6	21.2

56182 1999 FE_{31} 1 27.6 163°.42 4°.6/24.5 18

12 23	9 6.49	+30 22.9	2.264	3.072	12.2	19.0
1 2	9 0.71	+31 22.4	2.190	3.076	9.4	18.9
1 12	8 52.59	+32 20.6	2.142	3.081	6.6	18.7
1 22	8 42.80	+33 11.0	2.123	3.084	4.7	18.6
2 1	8 32.34	+33 47.9	2.133	3.088	5.4	18.6
2 11	8 22.36	+34 7.7	2.172	3.090	8.0	18.8
2 21	8 13.90	+34 10.1	2.237	3.093	10.8	19.0
3 2	8 7.73	+33 56.9	2.326	3.095	13.4	19.2

258177 2001 SW_{153} 1 27.6 91°.86 2°.5/29.1 18

12 23	9 3.10	+10 5.1	1.873	2.661	15.2	20.8
1 2	8 58.16	+10 13.1	1.802	2.676	11.8	20.6
1 12	8 50.96	+10 35.3	1.754	2.690	8.0	20.4
1 22	8 42.19	+11 9.4	1.732	2.705	4.0	20.2
2 1	8 32.84	+11 51.6	1.739	2.719	2.8	20.2
2 11	8 24.04	+12 37.1	1.775	2.733	6.2	20.4
2 21	8 16.74	+13 21.5	1.838	2.746	10.0	20.7
3 2	8 11.68	+14 1.2	1.926	2.760	13.3	20.9

165901 2001 SZ_{303} 1 27.6 291°.43 1°.5/26.7 18

12 23	9 1.92	+21 56.6	2.256	3.064	12.2	20.2
1 2	8 57.17	+22 18.4	2.167	3.058	9.3	20.0
1 12	8 50.33	+22 44.1	2.103	3.052	5.9	19.8
1 22	8 41.98	+23 10.0	2.067	3.046	2.4	19.6
2 1	8 32.99	+23 32.0	2.061	3.040	2.6	19.6
2 11	8 24.36	+23 46.8	2.084	3.034	6.1	19.8
2 21	8 17.01	+23 52.7	2.135	3.028	9.6	20.0
3 2	8 11.67	+23 49.6	2.210	3.022	12.6	20.2

266540 2008 FS_{100} 1 27.6 148°.85 0°.5/27.3 18

12 23	9 2.97	+17 8.9	2.077	2.879	13.4	21.5
1 2	8 58.04	+17 50.0	1.998	2.885	10.1	21.3
1 12	8 50.90	+18 40.3	1.943	2.890	6.4	21.0
1 22	8 42.19	+19 35.3	1.915	2.895	2.3	20.8
2 1	8 32.82	+20 29.7	1.918	2.899	2.1	20.8
2 11	8 23.87	+21 18.6	1.950	2.904	6.1	21.0
2 21	8 16.30	+21 58.7	2.011	2.908	9.9	21.3
3 2	8 10.85	+22 28.1	2.095	2.911	13.1	21.5

329821 2004 RW_{160} 1 27.6 187°.46 1°.5/28.6 18

12 23	9 1.98	+12 18.6	2.155	2.944	13.4	21.5
1 2	8 57.20	+12 31.0	2.068	2.943	10.4	21.3
1 12	8 50.34	+12 54.6	2.004	2.943	6.9	21.1
1 22	8 41.99	+13 27.1	1.967	2.942	3.1	20.8
2 1	8 32.98	+14 5.0	1.960	2.941	2.1	20.7
2 11	8 24.33	+14 44.5	1.983	2.940	5.7	21.0
2 21	8 16.94	+15 21.7	2.033	2.938	9.3	21.2
3 2	8 11.53	+15 54.0	2.109	2.937	12.6	21.4

231794 2000 DW_{13} 1 27.6 75°.63 2°.1/28.7 17

12 23	9 6.16	+11 13.5	1.349	2.158	18.9	20.4
1 2	9 1.16	+11 34.7	1.292	2.178	14.6	20.2
1 12	8 53.14	+12 14.2	1.256	2.199	9.6	19.9
1 22	8 43.04	+13 7.9	1.244	2.220	4.3	19.7
2 1	8 32.23	+14 9.0	1.259	2.240	2.8	19.6
2 11	8 22.30	+15 9.9	1.301	2.261	7.6	20.0
2 21	8 14.54	+16 4.7	1.368	2.281	12.3	20.3
3 2	8 9.79	+16 49.5	1.457	2.301	16.3	20.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
324438 2006 TP_{29}			1 27.6	60°.39	4°.8/30.4	18
	h m	° ′			°	m
12 23	9 2.74	+ 5 9.4	1.585	2.367	17.7	21.0
1 2	8 58.16	+ 4 58.9	1.522	2.386	14.2	20.8
1 12	8 51.07	+ 5 8.7	1.480	2.405	10.2	20.6
1 22	8 42.26	+ 5 37.9	1.463	2.424	6.4	20.4
2 1	8 32.83	+ 6 23.2	1.472	2.444	4.9	20.4
2 11	8 24.08	+ 7 19.0	1.508	2.463	7.4	20.6
2 21	8 17.07	+ 8 18.6	1.571	2.483	11.1	20.8
3 2	8 12.56	+ 9 16.5	1.657	2.502	14.6	21.1
135479 2001 WT_{47}			1 27.6	121°.68	1°.9/26.1	18
12 23	9 0.75	+22 2.7	2.563	3.368	11.0	19.9
1 2	8 56.00	+22 53.9	2.488	3.377	8.3	19.7
1 12	8 49.45	+23 49.3	2.438	3.386	5.2	19.5
1 22	8 41.64	+24 44.5	2.417	3.394	2.3	19.3
2 1	8 33.31	+25 34.9	2.427	3.402	2.8	19.4
2 11	8 25.33	+26 16.8	2.467	3.410	5.7	19.6
2 21	8 18.48	+26 48.0	2.536	3.418	8.7	19.8
3 2	8 13.38	+27 7.9	2.629	3.426	11.3	20.0
173015 2006 PX_{25}			1 27.6	106°.75	0°.3/27.8	18
12 23	9 0.22	+15 27.1	2.539	3.331	11.5	20.5
1 2	8 55.51	+15 56.2	2.463	3.344	8.7	20.4
1 12	8 49.09	+16 33.2	2.412	3.356	5.5	20.2
1 22	8 41.50	+17 15.0	2.390	3.369	2.1	20.0
2 1	8 33.45	+17 58.0	2.398	3.381	1.5	19.9
2 11	8 25.77	+18 38.5	2.437	3.392	4.9	20.2
2 21	8 19.18	+19 13.9	2.505	3.404	8.1	20.4
3 2	8 14.27	+19 42.4	2.598	3.415	10.8	20.6
172172 2002 PU_{23}			1 27.6	318°.84	0°.9/27.9	18
12 23	9 4.67	+16 15.8	1.541	2.356	16.6	20.0
1 2	9 0.09	+16 7.4	1.457	2.349	12.8	19.7
1 12	8 52.59	+16 8.6	1.395	2.343	8.3	19.4
1 22	8 42.93	+16 16.8	1.358	2.337	3.3	19.1
2 1	8 32.29	+16 28.2	1.348	2.331	2.3	19.0
2 11	8 22.19	+16 38.8	1.366	2.325	7.4	19.3
2 21	8 13.93	+16 45.7	1.409	2.320	12.2	19.6
3 2	8 8.50	+16 47.2	1.475	2.315	16.3	19.8
295951 2008 XM_{53}			1 27.6	28°.82	2°.0/28.6	18
12 23	9 2.33	+13 11.0	2.016	2.811	14.0	19.9
1 2	8 57.52	+12 53.7	1.936	2.815	10.8	19.7
1 12	8 50.55	+12 45.7	1.879	2.819	7.2	19.4
1 22	8 42.08	+12 45.7	1.848	2.823	3.4	19.2
2 1	8 33.01	+12 51.4	1.847	2.828	2.4	19.2
2 11	8 24.41	+13 0.3	1.875	2.832	5.9	19.4
2 21	8 17.20	+13 9.6	1.930	2.837	9.6	19.6
3 2	8 12.09	+13 17.2	2.009	2.843	12.9	19.8
57214 2001 QC_{63}			1 27.6	54°.08	3°.5/30.4	18
12 23	8 59.43	+ 4 41.1	2.021	2.791	14.8	19.2
1 2	8 55.19	+ 5 11.1	1.957	2.814	11.8	19.0
1 12	8 48.99	+ 5 59.2	1.915	2.838	8.3	18.9
1 22	8 41.48	+ 7 3.2	1.899	2.862	5.0	18.7
2 1	8 33.50	+ 8 18.7	1.912	2.886	3.6	18.6
2 11	8 26.02	+ 9 39.5	1.954	2.910	5.9	18.8
2 21	8 19.86	+10 59.7	2.025	2.935	9.1	19.1
3 2	8 15.64	+12 14.3	2.121	2.959	12.1	19.3
403546 2010 HQ_{98}			1 27.6	155°.07	0°.9/28.3	18
12 23	9 4.35	+12 51.5	2.258	3.041	13.1	22.4
1 2	8 58.86	+13 27.2	2.176	3.051	10.0	22.3
1 12	8 51.33	+14 14.1	2.119	3.059	6.5	22.1
1 22	8 42.37	+15 9.0	2.091	3.067	2.7	21.8
2 1	8 32.80	+16 7.2	2.093	3.075	1.7	21.8
2 11	8 23.61	+17 4.1	2.126	3.081	5.5	22.0
2 21	8 15.69	+17 55.6	2.188	3.087	9.1	22.3
3 2	8 9.74	+18 39.3	2.275	3.092	12.2	22.5
122099 2000 HC_{71}			1 27.6	314°.32	0°.2/27.7	18
12 23	9 2.72	+17 11.1	1.236	2.070	18.7	19.8
1 2	8 59.51	+17 13.9	1.145	2.049	14.6	19.5
1 12	8 52.78	+17 29.3	1.075	2.028	9.5	19.1
1 22	8 43.18	+17 53.4	1.027	2.007	3.6	18.7
2 1	8 32.05	+18 20.6	1.005	1.988	2.7	18.6
2 11	8 21.27	+18 44.6	1.007	1.968	9.0	18.9
2 21	8 12.63	+19 0.7	1.032	1.950	14.9	19.1
3 2	8 7.47	+19 6.8	1.077	1.933	19.9	19.4
191331 2003 OZ_{28}			1 27.6	130°.44	0°.9/27.1	18
12 23	9 3.05	+19 28.2	2.199	3.003	12.7	20.6
1 2	8 57.96	+19 53.8	2.121	3.009	9.6	20.5
1 12	8 50.80	+20 25.3	2.067	3.015	6.0	20.2
1 22	8 42.17	+20 58.9	2.042	3.021	2.2	20.0
2 1	8 32.96	+21 30.3	2.046	3.027	2.2	20.0
2 11	8 24.20	+21 55.8	2.080	3.032	5.9	20.3
2 21	8 16.78	+22 13.4	2.142	3.038	9.4	20.5
3 2	8 11.39	+22 22.3	2.229	3.043	12.5	20.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
320398 2007 UD_{101}			1 27.6	82°.94	4°.1/30.4	18
	h m	° ′			°	m
12 23	8 59.93	+ 5 1.9	2.373	3.132	13.2	20.6
1 2	8 55.39	+ 4 42.7	2.289	3.138	10.6	20.5
1 12	8 49.08	+ 4 37.0	2.229	3.144	7.8	20.3
1 22	8 41.52	+ 4 44.6	2.195	3.150	5.1	20.1
2 1	8 33.46	+ 5 4.3	2.189	3.156	4.1	20.1
2 11	8 25.75	+ 5 33.2	2.213	3.162	5.9	20.2
2 21	8 19.13	+ 6 7.8	2.266	3.168	8.7	20.4
3 2	8 14.23	+ 6 44.4	2.343	3.174	11.4	20.6
356639 2011 UB_{45}			1 27.6	196°.28	0°.3/27.8	18
12 23	9 6.80	+16 4.1	1.925	2.722	14.5	21.7
1 2	9 1.17	+16 20.2	1.837	2.719	11.1	21.5
1 12	8 53.04	+16 45.7	1.772	2.716	7.1	21.2
1 22	8 43.07	+17 17.3	1.734	2.713	2.7	20.9
2 1	8 32.27	+17 50.5	1.726	2.708	2.0	20.9
2 11	8 21.88	+18 20.9	1.748	2.703	6.5	21.2
2 21	8 13.03	+18 45.3	1.797	2.697	10.6	21.4
3 2	8 6.56	+19 2.1	1.870	2.691	14.2	21.6
372785 2010 JL_{34}			1 27.6	278°.20	20°.0/ 5.2	17
12 23	9 3.90	−17 39.4	1.216	1.905	26.7	20.5
1 2	9 0.37	−20 9.6	1.146	1.898	24.8	20.3
1 12	8 53.32	−22 4.1	1.090	1.892	22.8	20.2
1 22	8 43.39	−23 10.2	1.048	1.886	21.1	20.0
2 1	8 31.91	−23 17.8	1.022	1.880	20.1	19.9
2 11	8 20.75	−22 25.3	1.014	1.874	20.2	19.9
2 21	8 11.71	−20 40.2	1.023	1.868	21.4	20.0
3 2	8 6.15	−18 17.0	1.049	1.862	23.4	20.1
326445 2001 VT_{50}			1 27.6	24°.64	3°.3/28.9	18
12 23	9 3.39	+12 32.4	1.313	2.132	18.8	19.4
1 2	8 59.15	+11 52.0	1.254	2.144	14.6	19.2
1 12	8 51.92	+11 25.2	1.214	2.157	9.9	18.9
1 22	8 42.65	+11 11.5	1.198	2.172	5.0	18.7
2 1	8 32.67	+11 8.6	1.208	2.187	3.7	18.7
2 11	8 23.57	+11 13.0	1.243	2.204	7.8	18.9
2 21	8 16.58	+11 21.0	1.303	2.221	12.4	19.2
3 2	8 12.55	+11 29.0	1.385	2.240	16.4	19.5
242207 2003 QS_{39}			1 27.6	131°.93	0°.4/27.9	18
12 23	9 6.88	+15 33.3	2.063	2.854	13.8	21.6
1 2	9 0.86	+15 55.8	1.991	2.871	10.5	21.5
1 12	8 52.61	+16 27.3	1.943	2.887	6.7	21.2
1 22	8 42.84	+17 4.2	1.923	2.902	2.5	21.0
2 1	8 32.50	+17 42.2	1.934	2.916	1.8	21.0
2 11	8 22.72	+18 17.0	1.975	2.930	5.9	21.3
2 21	8 14.44	+18 45.8	2.044	2.943	9.7	21.5
3 2	8 8.36	+19 7.0	2.138	2.955	12.8	21.8
200132 1997 WP_{11}			1 27.6	80°.98	4°.0/29.6	17
12 23	9 7.47	+ 7 49.5	1.521	2.308	18.1	20.5
1 2	9 1.75	+ 7 39.3	1.465	2.334	14.3	20.3
1 12	8 53.33	+ 7 47.3	1.430	2.361	9.9	20.1
1 22	8 43.11	+ 8 12.0	1.419	2.386	5.6	19.9
2 1	8 32.34	+ 8 49.4	1.436	2.412	4.1	19.9
2 11	8 22.42	+ 9 34.0	1.481	2.437	7.4	20.1
2 21	8 14.47	+10 20.2	1.552	2.462	11.4	20.4
3 2	8 9.26	+11 3.3	1.647	2.486	15.0	20.7
395371 2011 SD_{27}			1 27.6	126°.60	0°.1/27.6	18
12 23	9 7.72	+16 38.0	1.884	2.681	14.7	22.1
1 2	9 1.70	+17 7.1	1.815	2.699	11.2	21.9
1 12	8 53.23	+17 45.4	1.770	2.715	7.1	21.7
1 22	8 43.08	+18 28.5	1.752	2.731	2.6	21.5
2 1	8 32.33	+19 11.1	1.764	2.746	2.0	21.5
2 11	8 22.19	+19 48.5	1.807	2.761	6.4	21.8
2 21	8 13.72	+20 17.9	1.876	2.775	10.4	22.0
3 2	8 7.69	+20 37.8	1.970	2.787	13.7	22.3
426006 2011 KS_{2}			1 27.6	213°.64	3°.9/30.1	18
12 23	9 0.58	+ 6 2.8	2.286	3.050	13.5	21.1
1 2	8 56.02	+ 5 45.6	2.195	3.049	10.8	20.9
1 12	8 49.56	+ 5 41.7	2.128	3.048	7.8	20.7
1 22	8 41.74	+ 5 50.9	2.087	3.046	5.0	20.5
2 1	8 33.33	+ 6 11.9	2.075	3.045	4.0	20.5
2 11	8 25.23	+ 6 41.7	2.093	3.044	6.0	20.6
2 21	8 18.27	+ 7 16.7	2.138	3.042	9.0	20.8
3 2	8 13.11	+ 7 53.3	2.209	3.040	11.9	21.0
375407 2008 SW_{265}			1 27.6	68°.61	0°.9/27.1	18
12 23	9 2.62	+19 8.7	2.015	2.824	13.5	21.4
1 2	8 57.74	+19 37.3	1.948	2.839	10.2	21.2
1 12	8 50.68	+20 12.4	1.905	2.854	6.4	21.0
1 22	8 42.14	+20 49.8	1.889	2.869	2.3	20.7
2 1	8 33.06	+21 24.9	1.903	2.884	2.2	20.8
2 11	8 24.54	+21 53.7	1.946	2.899	6.2	21.0
2 21	8 17.49	+22 13.9	2.016	2.914	9.8	21.3
3 2	8 12.59	+22 24.7	2.110	2.929	12.9	21.5

169168 2001 QS_{225} 1 27.6 85°.11 1°.8/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.85	+24 26.1	2.380	3.180	11.9	19.6
1 2	9 0.51	+24 31.8	2.316	3.202	9.0	19.5
1 12	8 52.21	+24 37.9	2.277	3.223	5.7	19.3
1 22	8 42.65	+24 41.1	2.267	3.243	2.5	19.1
2 1	8 32.74	+24 38.3	2.287	3.264	2.7	19.2
2 11	8 23.45	+24 27.9	2.339	3.284	5.8	19.4
2 21	8 15.61	+24 9.9	2.418	3.305	8.9	19.6
3 2	8 9.80	+23 45.0	2.523	3.324	11.6	19.8

461761 2005 UG_{256} 1 27.6 33°.84 7°.0/24.2 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.10	+32 36.5	1.461	2.294	16.4	20.7
1 2	9 1.45	+33 46.4	1.409	2.307	12.8	20.5
1 12	8 53.50	+34 51.9	1.380	2.320	9.3	20.3
1 22	8 43.26	+35 43.0	1.376	2.334	7.1	20.3
2 1	8 32.26	+36 11.3	1.397	2.349	8.0	20.3
2 11	8 22.25	+36 13.5	1.444	2.365	11.0	20.6
2 21	8 14.64	+35 51.3	1.514	2.381	14.4	20.8
3 2	8 10.27	+35 9.5	1.604	2.397	17.4	21.0

272475 2005 UU_{80} 1 27.6 142°.13 2°.1/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.71	+21 18.6	2.015	2.814	13.8	21.1
1 2	9 3.18	+22 13.4	1.945	2.831	10.4	20.9
1 12	8 54.19	+23 14.0	1.900	2.847	6.6	20.7
1 22	8 43.47	+24 14.1	1.884	2.861	2.8	20.5
2 1	8 32.09	+25 7.6	1.898	2.875	3.2	20.5
2 11	8 21.29	+25 49.4	1.943	2.887	7.0	20.8
2 21	8 12.14	+26 17.6	2.016	2.899	10.6	21.0
3 2	8 5.44	+26 32.2	2.113	2.909	13.7	21.2

66890 1999 VD_{81} 1 27.6 45°.00 0°.2/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.42	+15 38.1	1.721	2.533	15.3	18.4
1 2	8 57.15	+16 9.2	1.657	2.548	11.6	18.2
1 12	8 50.46	+16 51.5	1.615	2.563	7.3	18.0
1 22	8 42.11	+17 40.6	1.599	2.579	2.7	17.8
2 1	8 33.14	+18 30.9	1.612	2.595	2.0	17.7
2 11	8 24.79	+19 17.0	1.653	2.611	6.5	18.1
2 21	8 18.07	+19 55.0	1.721	2.628	10.6	18.3
3 2	8 13.74	+20 22.9	1.811	2.644	14.1	18.6

261269 2005 UE_{113} 1 27.6 95°.54 3°.5/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.62	+25 41.4	1.894	2.712	13.8	20.7
1 2	8 59.63	+26 31.8	1.821	2.716	10.5	20.5
1 12	8 52.09	+27 24.8	1.773	2.720	6.9	20.3
1 22	8 42.73	+28 13.9	1.752	2.725	3.8	20.2
2 1	8 32.64	+28 52.8	1.759	2.729	4.5	20.2
2 11	8 23.10	+29 17.2	1.795	2.733	7.9	20.4
2 21	8 15.23	+29 25.7	1.856	2.737	11.4	20.6
3 2	8 9.84	+29 19.4	1.941	2.741	14.6	20.8

51920 2001 QL_{87} 1 27.6 61°.76 1°.3/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.39	+15 23.5	2.204	2.996	13.1	17.8
1 2	8 58.86	+15 0.0	2.125	3.004	10.0	17.6
1 12	8 51.31	+14 42.8	2.070	3.011	6.5	17.4
1 22	8 42.38	+14 30.8	2.043	3.019	2.8	17.1
2 1	8 32.94	+14 22.0	2.046	3.027	2.0	17.1
2 11	8 24.00	+14 14.6	2.079	3.036	5.5	17.3
2 21	8 16.41	+14 7.1	2.140	3.044	9.0	17.6
3 2	8 10.83	+13 58.4	2.227	3.052	12.1	17.8

171197 2005 JF_{32} 1 27.6 72°.87 0°.3/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.98	+15 58.9	2.225	3.024	12.7	20.7
1 2	8 56.36	+16 16.1	2.147	3.032	9.7	20.5
1 12	8 49.78	+16 41.4	2.094	3.039	6.2	20.3
1 22	8 41.84	+17 11.9	2.067	3.046	2.3	20.1
2 1	8 33.36	+17 43.8	2.071	3.054	1.7	20.0
2 11	8 25.29	+18 13.7	2.105	3.061	5.5	20.3
2 21	8 18.49	+18 38.7	2.166	3.068	9.0	20.5
3 2	8 13.59	+18 57.2	2.252	3.076	12.0	20.7

482824 2013 XC_{26} 1 27.6 313°.65 0°.5/22.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 40.76	+37 42.7	36.216	37.010	0.9	20.2
1 2	8 39.84	+37 48.4	36.136	37.005	0.7	20.2
1 12	8 38.81	+37 53.6	36.084	36.999	0.6	20.1
1 22	8 37.71	+37 58.0	36.060	36.993	0.5	20.1
2 1	8 36.58	+38 1.5	36.066	36.987	0.5	20.1
2 11	8 35.47	+38 3.9	36.101	36.981	0.7	20.2
2 21	8 34.42	+38 5.2	36.163	36.976	0.9	20.2
3 2	8 33.47	+38 5.3	36.250	36.970	1.1	20.2

142509 2002 TJ_{37} 1 27.6 98°.65 1°.6/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.76	+12 23.8	1.843	2.636	15.2	20.7
1 2	8 59.47	+12 37.7	1.775	2.654	11.7	20.5
1 12	8 51.84	+13 4.1	1.730	2.671	7.7	20.3
1 22	8 42.61	+13 40.0	1.712	2.688	3.4	20.0
2 1	8 32.80	+14 21.1	1.723	2.704	2.2	20.0
2 11	8 23.59	+15 2.7	1.763	2.720	6.2	20.3
2 21	8 15.97	+15 40.7	1.830	2.736	10.1	20.6
3 2	8 10.68	+16 12.5	1.921	2.752	13.5	20.8

448150 2008 SZ_{197} 1 27.6 36°.71 9°.0/ 1.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 0.40	− 1 57.1	1.205	1.985	22.4	20.7
1 2	8 57.13	− 2 30.3	1.147	1.998	18.7	20.5
1 12	8 50.82	− 2 30.9	1.106	2.013	14.7	20.3
1 22	8 42.33	− 1 56.6	1.085	2.028	10.9	20.1
2 1	8 33.02	− 0 49.7	1.087	2.044	9.0	20.0
2 11	8 24.47	+ 0 41.7	1.113	2.061	10.4	20.2
2 21	8 18.02	+ 2 25.9	1.162	2.078	13.8	20.4
3 2	8 14.57	+ 4 11.6	1.233	2.096	17.4	20.7

350705 2001 WE_{69} 1 27.6 72°.16 1°.0/28.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.98	+14 11.2	1.381	2.194	18.3	21.7
1 2	9 1.75	+14 30.8	1.326	2.216	14.0	21.4
1 12	8 53.53	+15 4.8	1.291	2.238	9.0	21.2
1 22	8 43.26	+15 48.5	1.281	2.260	3.6	20.9
2 1	8 32.34	+16 35.5	1.299	2.282	2.4	20.9
2 11	8 22.33	+17 19.5	1.344	2.303	7.5	21.3
2 21	8 14.50	+17 55.9	1.414	2.325	12.2	21.6
3 2	8 9.66	+18 22.4	1.507	2.346	16.1	21.9

491232 2011 UV_{189} 1 27.6 91°.03 0°.8/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.24	+17 20.6	1.643	2.453	16.0	21.6
1 2	9 0.89	+18 8.6	1.583	2.474	12.1	21.4
1 12	8 52.87	+19 7.0	1.545	2.494	7.5	21.2
1 22	8 43.02	+20 9.9	1.534	2.514	2.7	20.9
2 1	8 32.51	+21 10.3	1.552	2.534	2.5	20.9
2 11	8 22.73	+22 1.9	1.599	2.553	7.2	21.3
2 21	8 14.83	+22 41.4	1.672	2.572	11.4	21.6
3 2	8 9.58	+23 7.7	1.768	2.590	14.9	21.8

350266 2012 TX_{189} 1 27.6 203°.32 3°.9/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.49	+ 5 6.8	2.516	3.273	12.6	20.6
1 2	8 55.05	+ 4 51.2	2.425	3.273	10.1	20.5
1 12	8 48.89	+ 4 48.4	2.356	3.272	7.4	20.3
1 22	8 41.53	+ 4 58.3	2.315	3.271	4.9	20.1
2 1	8 33.63	+ 5 19.5	2.302	3.270	3.9	20.0
2 11	8 26.02	+ 5 49.5	2.320	3.268	5.7	20.2
2 21	8 19.41	+ 6 24.8	2.365	3.267	8.4	20.3
3 2	8 14.42	+ 7 2.2	2.436	3.266	11.0	20.5

414232 2008 FL_{70} 1 27.6 309°.85 9°.0/22.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.00	+39 8.9	1.742	2.557	15.0	21.0
1 2	9 3.76	+40 32.3	1.674	2.552	12.3	20.8
1 12	8 55.13	+41 47.7	1.629	2.546	10.0	20.6
1 22	8 43.97	+42 44.4	1.609	2.541	9.0	20.6
2 1	8 31.74	+43 13.8	1.615	2.536	9.9	20.6
2 11	8 20.25	+43 12.1	1.647	2.532	12.3	20.7
2 21	8 11.04	+42 41.3	1.700	2.527	15.0	20.9
3 2	8 5.15	+41 47.1	1.774	2.523	17.7	21.1

134473 1998 VA_{14} 1 27.7 78°.03 4°.1/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.31	+ 6 11.6	2.102	2.869	14.4	19.4
1 2	8 57.34	+ 5 50.4	2.030	2.885	11.5	19.2
1 12	8 50.37	+ 5 43.5	1.981	2.901	8.3	19.1
1 22	8 42.06	+ 5 50.5	1.958	2.918	5.2	18.9
2 1	8 33.26	+ 6 9.6	1.964	2.934	4.1	18.9
2 11	8 24.94	+ 6 37.6	1.999	2.950	6.2	19.0
2 21	8 17.95	+ 7 10.6	2.061	2.966	9.3	19.2
3 2	8 12.92	+ 7 44.8	2.149	2.981	12.2	19.5

461757 2005 UC_{237} 1 27.7 195°.97 0°.7/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.27	+14 7.3	2.086	2.881	13.6	22.0
1 2	8 57.57	+14 32.8	1.998	2.880	10.4	21.8
1 12	8 50.69	+15 9.4	1.935	2.878	6.7	21.5
1 22	8 42.24	+15 53.7	1.899	2.877	2.7	21.3
2 1	8 33.08	+16 41.6	1.892	2.875	1.8	21.2
2 11	8 24.28	+17 28.2	1.915	2.872	5.9	21.5
2 21	8 16.78	+18 9.9	1.966	2.870	9.7	21.7
3 2	8 11.35	+18 43.9	2.042	2.867	13.0	21.9

185502 2007 TF_{126} 1 27.7 353°.65 0°.3/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.64	+16 15.6	1.925	2.736	14.0	19.8
1 2	8 55.74	+16 32.8	1.842	2.732	10.7	19.6
1 12	8 49.61	+16 59.5	1.782	2.730	6.8	19.3
1 22	8 41.86	+17 32.4	1.749	2.728	2.6	19.1
2 1	8 33.41	+18 7.3	1.744	2.726	1.9	19.0
2 11	8 25.36	+18 39.8	1.767	2.725	6.2	19.3
2 21	8 18.71	+19 6.7	1.817	2.725	10.1	19.5
3 2	8 14.21	+19 25.8	1.891	2.724	13.6	19.7

360227 1999 TW_{259} 1 27.7 145°.29 1°.8/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.86	+11 43.9	1.943	2.731	14.7	21.3
1 2	8 59.55	+11 56.9	1.864	2.739	11.4	21.1
1 12	8 51.94	+12 22.7	1.809	2.747	7.6	20.9
1 22	8 42.70	+12 58.5	1.780	2.755	3.5	20.7
2 1	8 32.78	+13 40.4	1.781	2.762	2.3	20.6
2 11	8 23.34	+14 23.9	1.811	2.768	6.1	20.9
2 21	8 15.38	+15 4.7	1.869	2.774	10.0	21.1
3 2	8 9.66	+15 39.9	1.951	2.779	13.4	21.3

341452 2007 TM_{271} 1 27.7 152°.98 3°.8/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.11	+29 52.1	2.541	3.348	11.1	21.2
1 2	8 58.69	+30 36.2	2.466	3.352	8.5	21.1
1 12	8 51.25	+31 18.9	2.417	3.356	5.8	20.9
1 22	8 42.41	+31 55.1	2.396	3.360	4.0	20.8
2 1	8 33.02	+32 20.4	2.405	3.364	4.6	20.8
2 11	8 24.06	+32 32.1	2.443	3.367	6.9	21.0
2 21	8 16.40	+32 29.7	2.509	3.370	9.6	21.2
3 2	8 10.71	+32 14.4	2.599	3.373	12.0	21.3

172995 2006 KN_{122} 1 27.7 163°.69 0°.4/27.9 18

12 23	9 4.90	+14 36.4	2.121	2.912	13.5	21.0
1 2	8 59.48	+15 9.5	2.038	2.918	10.4	20.8
1 12	8 51.86	+15 53.2	1.980	2.923	6.6	20.6
1 22	8 42.67	+16 43.8	1.950	2.928	2.6	20.4
2 1	8 32.80	+17 36.6	1.950	2.932	1.8	20.3
2 11	8 23.34	+18 26.6	1.980	2.935	5.9	20.6
2 21	8 15.24	+19 10.2	2.039	2.938	9.6	20.8
3 2	8 9.24	+19 45.1	2.122	2.940	12.9	21.0

182632 2001 UJ_{144} 1 27.7 112°.13 1°.6/26.7 18

12 23	9 4.75	+20 25.8	2.003	2.810	13.6	21.2
1 2	8 59.45	+21 8.8	1.933	2.824	10.2	21.0
1 12	8 51.84	+21 58.1	1.889	2.837	6.4	20.8
1 22	8 42.65	+22 48.3	1.871	2.850	2.5	20.6
2 1	8 32.84	+23 34.1	1.884	2.863	2.8	20.7
2 11	8 23.58	+24 10.8	1.926	2.875	6.6	20.9
2 21	8 15.86	+24 36.2	1.996	2.887	10.2	21.2
3 2	8 10.39	+24 49.8	2.089	2.899	13.3	21.4

190423 1999 VZ_{107} 1 27.7 105°.85 0°.1/27.7 18

12 23	9 2.90	+17 0.4	2.121	2.921	13.2	20.5
1 2	8 57.92	+17 18.4	2.044	2.930	10.0	20.3
1 12	8 50.83	+17 44.0	1.992	2.938	6.3	20.1
1 22	8 42.27	+18 14.1	1.967	2.946	2.3	19.9
2 1	8 33.15	+18 44.5	1.972	2.954	1.8	19.8
2 11	8 24.49	+19 11.6	2.007	2.962	5.8	20.1
2 21	8 17.19	+19 32.8	2.069	2.970	9.4	20.4
3 2	8 11.95	+19 46.8	2.156	2.978	12.6	20.6

221753 2007 EE_{210} 1 27.7 332°.68 7°.0/24.3 18

12 23	9 9.97	+35 46.6	1.772	2.587	14.8	20.1
1 2	9 4.14	+36 33.0	1.700	2.584	11.8	19.9
1 12	8 55.17	+37 12.6	1.651	2.581	8.9	19.7
1 22	8 43.95	+37 36.8	1.627	2.578	7.1	19.6
2 1	8 31.87	+37 38.8	1.631	2.576	7.8	19.7
2 11	8 20.60	+37 16.1	1.662	2.573	10.5	19.8
2 21	8 11.51	+36 30.8	1.717	2.571	13.6	20.0
3 2	8 5.51	+35 28.0	1.793	2.569	16.5	20.2

456627 Cristianmartins 1 27.7 219°.09 2°.7/25.7 17

12 23	9 2.94	+23 25.4	2.245	3.055	12.3	21.6
1 2	8 58.11	+24 24.7	2.158	3.049	9.3	21.4
1 12	8 51.08	+25 29.1	2.096	3.044	6.0	21.2
1 22	8 42.42	+26 32.8	2.062	3.038	3.0	21.0
2 1	8 33.00	+27 30.0	2.059	3.031	3.7	21.0
2 11	8 23.89	+28 15.9	2.085	3.025	6.9	21.2
2 21	8 16.06	+28 47.9	2.139	3.018	10.2	21.4
3 2	8 10.31	+29 5.7	2.217	3.010	13.2	21.6

288568 2004 HK_{32} 1 27.7 323°.84 2°.6/26.4 18

12 23	9 3.72	+22 38.2	1.574	2.401	15.8	21.0
1 2	8 59.51	+23 13.1	1.493	2.393	12.0	20.8
1 12	8 52.35	+23 54.4	1.434	2.386	7.7	20.5
1 22	8 42.97	+24 35.7	1.400	2.378	3.4	20.2
2 1	8 32.60	+25 10.4	1.394	2.371	3.9	20.3
2 11	8 22.74	+25 32.9	1.415	2.365	8.3	20.5
2 21	8 14.75	+25 40.9	1.461	2.359	12.8	20.7
3 2	8 9.63	+25 34.8	1.528	2.353	16.6	21.0

157962 2000 EX_{122} 1 27.7 250°.61 2°.8/29.1 18

12 23	9 3.81	+ 9 40.6	1.581	2.377	17.1	20.9
1 2	8 59.48	+ 9 52.6	1.490	2.368	13.5	20.6
1 12	8 52.33	+10 22.9	1.420	2.358	9.3	20.3
1 22	8 42.99	+11 9.7	1.375	2.348	4.7	20.0
2 1	8 32.55	+12 8.4	1.357	2.338	3.2	19.9
2 11	8 22.45	+13 12.5	1.368	2.327	7.4	20.2
2 21	8 14.01	+14 15.3	1.404	2.316	12.1	20.4
3 2	8 8.28	+15 11.7	1.463	2.305	16.3	20.6

107033 2000 YD_{124} 1 27.7 92°.65 5°.0/24.9 18

12 23	9 8.92	+27 35.1	1.611	2.433	15.7	19.5
1 2	9 3.22	+28 49.7	1.557	2.452	12.0	19.3
1 12	8 54.50	+30 5.3	1.525	2.470	8.0	19.1
1 22	8 43.69	+31 12.7	1.520	2.488	5.2	19.0
2 1	8 32.14	+32 3.5	1.543	2.506	6.1	19.1
2 11	8 21.45	+32 32.9	1.594	2.524	9.4	19.3
2 21	8 12.91	+32 40.7	1.670	2.541	13.0	19.6
3 2	8 7.38	+32 29.8	1.767	2.558	16.1	19.8

95481 2002 EG_{16} 1 27.7 357°.79 1°.9/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.50	+14 11.4	1.688	2.494	15.8	19.4
1 2	8 58.91	+13 49.8	1.607	2.493	12.3	19.1
1 12	8 51.73	+13 37.9	1.548	2.491	8.1	18.9
1 22	8 42.69	+13 34.5	1.515	2.491	3.7	18.6
2 1	8 32.87	+13 36.9	1.509	2.491	2.6	18.6
2 11	8 23.57	+13 42.2	1.532	2.491	6.8	18.8
2 21	8 15.94	+13 47.7	1.580	2.491	11.1	19.1
3 2	8 10.81	+13 50.9	1.652	2.493	14.9	19.3

48855 1998 FH_{97} 1 27.7 19°.70 1°.1/28.2 18

12 23	9 1.00	+15 18.9	1.757	2.568	15.1	17.7
1 2	8 56.83	+15 12.8	1.686	2.576	11.5	17.5
1 12	8 50.29	+15 16.1	1.638	2.584	7.5	17.3
1 22	8 42.12	+15 26.5	1.615	2.593	3.1	17.0
2 1	8 33.33	+15 40.8	1.621	2.603	2.1	17.0
2 11	8 25.12	+15 55.3	1.654	2.614	6.3	17.3
2 21	8 18.50	+16 7.2	1.714	2.625	10.4	17.5
3 2	8 14.19	+16 14.6	1.797	2.637	13.9	17.8

40261 1999 CD_{117} 1 27.7 59°.44 5°.1/30.0 18

12 23	9 4.16	+ 6 30.5	1.419	2.212	18.9	17.9
1 2	8 59.71	+ 6 5.7	1.349	2.220	15.2	17.7
1 12	8 52.37	+ 6 1.0	1.299	2.228	10.9	17.5
1 22	8 42.95	+ 6 16.4	1.272	2.236	6.7	17.3
2 1	8 32.68	+ 6 49.3	1.272	2.245	5.2	17.2
2 11	8 23.07	+ 7 34.3	1.297	2.254	8.2	17.4
2 21	8 15.38	+ 8 25.0	1.348	2.262	12.4	17.7
3 2	8 10.54	+ 9 15.1	1.421	2.271	16.3	17.9

138144 2000 EH_{56} 1 27.7 2°.76 3°.7/26.3 18

12 23	9 4.98	+25 45.2	1.305	2.145	17.6	19.2
1 2	9 0.88	+26 4.3	1.237	2.143	13.5	18.9
1 12	8 53.36	+26 25.4	1.190	2.143	8.8	18.6
1 22	8 43.35	+26 41.3	1.167	2.143	4.4	18.4
2 1	8 32.38	+26 45.3	1.169	2.145	4.9	18.4
2 11	8 22.28	+26 33.6	1.197	2.148	9.5	18.7
2 21	8 14.54	+26 6.4	1.248	2.151	14.1	18.9
3 2	8 10.16	+25 26.3	1.320	2.156	18.1	19.2

89041 2001 TU_{111} 1 27.7 36°.42 1°.6/28.7 18

12 23	9 0.72	+12 58.5	2.233	3.024	12.9	19.5
1 2	8 56.18	+12 56.2	2.151	3.028	10.0	19.3
1 12	8 49.71	+13 3.4	2.092	3.031	6.6	19.1
1 22	8 41.88	+13 18.2	2.060	3.035	3.1	18.9
2 1	8 33.50	+13 38.0	2.057	3.038	2.1	18.8
2 11	8 25.51	+13 59.8	2.085	3.042	5.4	19.1
2 21	8 18.73	+14 20.8	2.140	3.046	8.9	19.3
3 2	8 13.82	+14 38.6	2.220	3.050	11.9	19.5

323491 2004 PX_{56} 1 27.7 135°.69 1°.9/28.9 18

12 23	9 2.18	+10 40.8	2.189	2.971	13.4	21.1
1 2	8 57.31	+10 58.8	2.109	2.979	10.4	21.0
1 12	8 50.43	+11 29.1	2.052	2.988	7.0	20.8
1 22	8 42.15	+12 9.5	2.022	2.995	3.4	20.5
2 1	8 33.30	+12 56.4	2.023	3.003	2.2	20.5
2 11	8 24.83	+13 45.3	2.053	3.010	5.5	20.7
2 21	8 17.62	+14 32.2	2.112	3.017	9.0	20.9
3 2	8 12.34	+15 14.1	2.196	3.023	12.1	21.1

495928 2005 YM_{178} 1 27.7 74°.39 2°.1/28.7 18

12 23	9 4.61	+13 9.5	1.957	2.749	14.5	21.2
1 2	8 59.34	+12 47.5	1.876	2.753	11.2	21.0
1 12	8 51.81	+12 34.7	1.818	2.757	7.5	20.7
1 22	8 42.67	+12 30.0	1.788	2.762	3.6	20.5
2 1	8 32.91	+12 31.4	1.786	2.766	2.6	20.4
2 11	8 23.64	+12 36.2	1.813	2.770	6.1	20.7
2 21	8 15.84	+12 41.9	1.868	2.775	9.9	20.9
3 2	8 10.26	+12 46.5	1.947	2.779	13.3	21.1

207377 2005 NG_{18} 1 27.7 267°.71 0°.5/28.0 17

12 23	9 0.06	+15 21.0	2.460	3.254	11.8	21.1
1 2	8 55.65	+15 37.8	2.363	3.244	9.0	20.9
1 12	8 49.40	+16 2.7	2.290	3.233	5.8	20.7
1 22	8 41.79	+16 33.3	2.245	3.223	2.3	20.5
2 1	8 33.56	+17 6.4	2.230	3.212	1.6	20.4
2 11	8 25.57	+17 38.5	2.245	3.201	5.2	20.6
2 21	8 18.64	+18 6.8	2.288	3.190	8.6	20.8
3 2	8 13.43	+18 29.3	2.357	3.180	11.6	21.0

79459 1997 YS 1 27.7 76°.47 1°.4/28.5 18

12 23	9 1.52	+13 31.7	2.262	3.053	12.8	18.8
1 2	8 56.76	+13 29.6	2.180	3.057	9.9	18.6
1 12	8 50.07	+13 36.3	2.121	3.061	6.5	18.4
1 22	8 42.02	+13 50.1	2.090	3.065	2.9	18.1
2 1	8 33.43	+14 8.2	2.088	3.070	2.0	18.1
2 11	8 25.24	+14 27.8	2.117	3.074	5.4	18.3
2 21	8 18.26	+14 46.1	2.173	3.078	8.8	18.5
3 2	8 13.16	+15 1.2	2.255	3.083	11.8	18.7

24885 1996 XQ_5 1 27.7 7°.58 2°.1/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.45	+19 47.3	1.135	1.979	19.5	17.5
1 2	9 0.08	+20 27.8	1.070	1.979	14.8	17.3
1 12	8 53.08	+21 20.7	1.024	1.980	9.4	17.0
1 22	8 43.33	+22 18.4	1.001	1.981	3.7	16.6
2 1	8 32.41	+23 11.2	1.003	1.983	3.9	16.7
2 11	8 22.30	+23 51.2	1.029	1.986	9.6	17.0
2 21	8 14.68	+24 14.2	1.078	1.990	15.0	17.3
3 2	8 10.65	+24 20.0	1.146	1.995	19.5	17.6

416256 2003 EB_{42} 1 27.7 43°.10 3°.4/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.86	+28 52.1	1.731	2.539	15.4	20.3
1 2	9 7.48	+28 36.9	1.655	2.542	11.8	20.0
1 12	8 57.08	+28 16.9	1.601	2.545	7.8	19.8
1 22	8 44.62	+27 47.2	1.575	2.549	4.1	19.6
2 1	8 31.51	+27 4.2	1.579	2.552	4.3	19.6
2 11	8 19.34	+26 7.9	1.611	2.556	8.1	19.8
2 21	8 9.39	+25 1.0	1.672	2.560	12.1	20.1
3 2	8 2.50	+23 47.7	1.755	2.564	15.5	20.3

376201 2011 CA_{117} 1 27.7 199°.74 1°.8/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.28	+11 57.9	2.268	3.052	13.0	21.6
1 2	8 57.40	+12 2.1	2.177	3.050	10.1	21.4
1 12	8 50.52	+12 16.6	2.110	3.047	6.7	21.1
1 22	8 42.22	+12 39.8	2.071	3.045	3.2	20.9
2 1	8 33.27	+13 8.8	2.061	3.042	2.2	20.8
2 11	8 24.66	+13 40.2	2.082	3.038	5.5	21.1
2 21	8 17.23	+14 10.6	2.130	3.035	9.0	21.3
3 2	8 11.68	+14 37.5	2.204	3.031	12.1	21.5

503755 2016 ND_3 1 27.7 223°.71 4°.6/31.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.22	+ 1 50.5	2.674	3.412	12.4	21.7
1 2	8 54.81	+ 1 34.3	2.575	3.407	10.2	21.6
1 12	8 48.77	+ 1 32.0	2.500	3.401	7.8	21.4
1 22	8 41.55	+ 1 44.1	2.451	3.394	5.5	21.2
2 1	8 33.79	+ 2 9.5	2.431	3.388	4.6	21.2
2 11	8 26.25	+ 2 45.9	2.440	3.382	5.9	21.2
2 21	8 19.63	+ 3 29.7	2.478	3.375	8.3	21.4
3 2	8 14.51	+ 4 17.1	2.542	3.368	10.7	21.5

210347 2007 UT_1 1 27.7 275°.36 4°.6/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.13	+26 55.1	1.629	2.454	15.4	20.4
1 2	9 1.43	+27 53.8	1.548	2.446	11.8	20.1
1 12	8 53.64	+28 55.9	1.490	2.437	7.9	19.9
1 22	8 43.50	+29 53.3	1.457	2.428	4.9	19.7
2 1	8 32.27	+30 37.5	1.453	2.420	5.7	19.7
2 11	8 21.54	+31 2.7	1.475	2.411	9.5	19.9
2 21	8 12.76	+31 7.4	1.522	2.402	13.5	20.1
3 2	8 6.96	+30 53.5	1.590	2.394	17.1	20.3

288997 2004 TL_{67} 1 27.7 83°.88 1°.9/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.93	+19 5.3	1.540	2.355	16.6	20.8
1 2	9 2.32	+20 11.7	1.488	2.382	12.5	20.6
1 12	8 53.86	+21 27.5	1.458	2.408	7.8	20.4
1 22	8 43.45	+22 44.8	1.455	2.434	3.0	20.2
2 1	8 32.41	+23 55.3	1.481	2.459	3.4	20.2
2 11	8 22.22	+24 52.3	1.535	2.484	7.9	20.6
2 21	8 14.11	+25 32.8	1.615	2.509	12.0	20.9
3 2	8 8.86	+25 56.8	1.717	2.533	15.5	21.1

258654 2002 EU_{67} 1 27.7 298°.80 0°.6/27.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.75	+15 54.2	1.485	2.303	17.0	21.0
1 2	8 59.70	+16 2.3	1.394	2.288	13.2	20.7
1 12	8 52.62	+16 22.6	1.325	2.274	8.6	20.4
1 22	8 43.16	+16 51.9	1.280	2.259	3.3	20.0
2 1	8 32.51	+17 24.9	1.262	2.245	2.4	19.9
2 11	8 22.24	+17 56.2	1.271	2.231	7.8	20.2
2 21	8 13.80	+18 21.3	1.305	2.217	12.9	20.5
3 2	8 8.29	+18 37.7	1.361	2.204	17.3	20.7

340662 2006 RT_{28} 1 27.7 191°.19 2°.4/29.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.96	+ 8 46.1	2.710	3.477	11.5	22.1
1 2	8 55.32	+ 8 48.0	2.616	3.476	9.1	21.9
1 12	8 49.06	+ 9 0.5	2.547	3.475	6.3	21.7
1 22	8 41.65	+ 9 22.5	2.506	3.473	3.5	21.5
2 1	8 33.74	+ 9 51.9	2.495	3.471	2.6	21.5
2 11	8 26.08	+10 25.8	2.514	3.469	4.9	21.6
2 21	8 19.36	+11 1.3	2.563	3.466	7.7	21.8
3 2	8 14.17	+11 35.6	2.638	3.463	10.4	22.0

340619 2006 QR_{99} 1 27.7 122°.18 0°.9/27.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.05	+22 32.4	2.704	3.492	11.0	20.6
1 2	9 1.25	+22 20.8	2.625	3.505	8.3	20.4
1 12	8 52.67	+22 10.0	2.573	3.517	5.2	20.2
1 22	8 42.93	+21 57.5	2.551	3.529	2.0	20.0
2 1	8 32.81	+21 41.5	2.561	3.541	1.9	20.0
2 11	8 23.21	+21 20.7	2.603	3.553	5.1	20.3
2 21	8 14.88	+20 55.1	2.675	3.564	8.0	20.5
3 2	8 8.37	+20 25.2	2.773	3.574	10.6	20.7

344527 2002 TZ_{135} 1 27.7 42°.15 1°.3/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.06	+21 50.8	1.814	2.629	14.5	19.8
1 2	8 59.77	+21 54.5	1.753	2.646	10.9	19.6
1 12	8 52.06	+22 1.8	1.715	2.664	6.9	19.4
1 22	8 42.75	+22 8.6	1.704	2.683	2.6	19.2
2 1	8 32.96	+22 11.3	1.721	2.702	2.6	19.2
2 11	8 23.91	+22 7.2	1.767	2.721	6.6	19.5
2 21	8 16.60	+21 55.6	1.840	2.740	10.5	19.8
3 2	8 11.72	+21 36.9	1.937	2.760	13.7	20.0

420187 2011 GA_{55} 1 27.7 246°.92 1°.1/27.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.09	+20 10.9	2.185	2.973	13.3	22.9
1 2	9 5.33	+20 32.7	2.066	2.945	10.2	22.7
1 12	8 55.90	+21 0.4	1.973	2.917	6.6	22.4
1 22	8 44.34	+21 29.9	1.908	2.887	2.5	22.1
2 1	8 31.60	+21 56.2	1.875	2.855	2.5	22.0
2 11	8 18.94	+22 15.2	1.873	2.822	6.8	22.2
2 21	8 7.60	+22 24.5	1.901	2.787	10.9	22.4
3 2	7 58.61	+22 23.8	1.954	2.751	14.6	22.6

188734 2005 UB_{74} 1 27.7 117°.49 4°.0/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.62	+ 5 29.6	2.123	2.886	14.4	21.0
1 2	8 57.64	+ 5 23.5	2.046	2.899	11.5	20.9
1 12	8 50.64	+ 5 32.7	1.991	2.911	8.3	20.7
1 22	8 42.25	+ 5 56.5	1.963	2.923	5.2	20.5
2 1	8 33.31	+ 6 32.6	1.964	2.934	4.0	20.5
2 11	8 24.80	+ 7 17.1	1.994	2.945	6.2	20.6
2 21	8 17.58	+ 8 5.4	2.052	2.956	9.3	20.8
3 2	8 12.33	+ 8 53.5	2.135	2.967	12.3	21.0

138856 2000 WT_{34} 1 27.7 72°.22 4°.1/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.48	+ 7 18.4	1.507	2.298	18.1	20.0
1 2	8 59.71	+ 7 12.9	1.443	2.314	14.3	19.8
1 12	8 52.24	+ 7 26.7	1.400	2.331	10.0	19.6
1 22	8 42.89	+ 7 58.4	1.381	2.348	5.8	19.4
2 1	8 32.86	+ 8 44.2	1.389	2.365	4.2	19.4
2 11	8 23.53	+ 9 37.8	1.425	2.382	7.4	19.6
2 21	8 16.06	+10 33.1	1.486	2.399	11.5	19.9
3 2	8 11.27	+11 24.8	1.570	2.416	15.2	20.1

128101 2003 PG_{11} 1 27.7 162°.66 2°.5/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.31	+26 4.2	2.411	3.212	11.8	20.5
1 2	9 1.09	+26 19.1	2.331	3.216	9.0	20.3
1 12	8 52.78	+26 33.9	2.275	3.220	5.8	20.1
1 22	8 43.03	+26 44.4	2.249	3.223	2.9	19.9
2 1	8 32.75	+26 47.3	2.253	3.226	3.3	19.9
2 11	8 22.97	+26 40.2	2.288	3.229	6.3	20.1
2 21	8 14.58	+26 23.1	2.351	3.231	9.4	20.3
3 2	8 8.26	+25 57.0	2.439	3.233	12.1	20.5

238351 2004 BP_{116} 1 27.7 349°.76 4°.3/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.18	+30 41.6	1.813	2.628	14.5	19.1
1 2	9 3.25	+30 42.5	1.733	2.623	11.2	18.9
1 12	8 54.47	+30 38.6	1.676	2.619	7.6	18.7
1 22	8 43.72	+30 24.3	1.646	2.615	4.7	18.5
2 1	8 32.24	+29 55.4	1.644	2.612	5.1	18.5
2 11	8 21.52	+29 10.7	1.671	2.610	8.3	18.7
2 21	8 12.78	+28 12.4	1.724	2.608	12.0	18.9
3 2	8 6.85	+27 4.0	1.800	2.607	15.3	19.1

14263 2000 AA_{127} 1 27.7 112°.13 0°.6/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.11	+14 58.9	2.261	3.054	12.7	17.8
1 2	8 57.21	+15 16.3	2.183	3.064	9.7	17.7
1 12	8 50.36	+15 42.2	2.130	3.074	6.2	17.5
1 22	8 42.16	+16 14.1	2.105	3.083	2.5	17.2
2 1	8 33.43	+16 48.1	2.110	3.092	1.7	17.2
2 11	8 25.12	+17 20.8	2.145	3.101	5.4	17.5
2 21	8 18.07	+17 49.1	2.208	3.110	8.8	17.7
3 2	8 12.90	+18 11.3	2.296	3.119	11.8	17.9

455571 2004 RF_{46} 1 27.7 121°.29 1°.0/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.33	+19 14.6	1.842	2.643	14.9	22.6
1 2	9 3.02	+19 44.9	1.776	2.663	11.2	22.4
1 12	8 54.16	+20 22.2	1.734	2.681	7.0	22.2
1 22	8 43.58	+21 1.3	1.720	2.699	2.6	21.9
2 1	8 32.39	+21 36.9	1.736	2.716	2.5	21.9
2 11	8 21.90	+22 4.6	1.781	2.733	6.8	22.2
2 21	8 13.19	+22 22.4	1.854	2.748	10.7	22.5
3 2	8 7.03	+22 29.8	1.950	2.763	14.0	22.8

443437 2014 HX_{140} 1 27.7 219°.98 0°.1/27.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.05	+16 44.6	3.684	4.470	8.4	22.6
1 2	8 52.78	+16 59.5	3.586	4.464	6.4	22.4
1 12	8 47.31	+17 18.9	3.514	4.457	4.0	22.2
1 22	8 41.00	+17 41.0	3.471	4.450	1.5	22.0
2 1	8 34.32	+18 3.9	3.460	4.443	1.1	22.0
2 11	8 27.82	+18 25.6	3.481	4.435	3.7	22.2
2 21	8 21.99	+18 44.5	3.531	4.428	6.1	22.3
3 2	8 17.28	+18 59.3	3.609	4.420	8.2	22.5

346464 2008 TC_{116} 1 27.7 87°.70 2°.8/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.30	+11 35.9	1.474	2.275	17.9	21.1
1 2	9 1.97	+11 20.2	1.407	2.288	14.0	20.8
1 12	8 53.74	+11 19.1	1.361	2.300	9.4	20.6
1 22	8 43.48	+11 30.8	1.339	2.313	4.7	20.4
2 1	8 32.46	+11 51.9	1.346	2.326	3.3	20.3
2 11	8 22.20	+12 17.6	1.379	2.338	7.4	20.6
2 21	8 13.94	+12 43.7	1.438	2.350	11.9	20.9
3 2	8 8.55	+13 6.6	1.520	2.362	15.9	21.1

254238 2004 RG_{137} 1 27.7 187°.39 11°.5/ 4.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.02	−12 5.6	1.446	2.148	22.5	20.5
1 2	8 59.85	−12 11.0	1.362	2.148	19.9	20.3
1 12	8 52.68	−11 36.7	1.293	2.148	16.7	20.1
1 22	8 43.20	−10 17.1	1.244	2.147	13.7	19.9
2 1	8 32.58	− 8 12.3	1.218	2.146	11.7	19.8
2 11	8 22.36	− 5 30.3	1.217	2.144	12.0	19.8
2 21	8 13.96	− 2 25.8	1.243	2.142	14.5	19.9
3 2	8 8.45	+ 0 44.6	1.292	2.139	17.8	20.1

283241 2010 VA_{74} 1 27.7 98°.92 4°.0/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.41	+26 44.4	1.907	2.720	13.9	20.8
1 2	9 1.65	+27 48.4	1.848	2.740	10.6	20.6
1 12	8 53.35	+28 53.5	1.815	2.760	7.0	20.4
1 22	8 43.29	+29 52.4	1.809	2.779	4.2	20.3
2 1	8 32.62	+30 38.6	1.832	2.798	5.0	20.4
2 11	8 22.64	+31 7.8	1.884	2.816	8.1	20.6
2 21	8 14.45	+31 19.4	1.962	2.834	11.4	20.8
3 2	8 8.80	+31 15.1	2.063	2.851	14.2	21.1

107954 2001 FX_{120} 1 27.7 193°.24 4°.8/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.43	+28 47.3	1.905	2.713	14.2	20.0
1 2	9 5.05	+29 48.6	1.825	2.712	10.9	19.8
1 12	8 55.74	+30 50.7	1.768	2.709	7.5	19.5
1 22	8 44.27	+31 45.5	1.739	2.705	5.0	19.4
2 1	8 31.82	+32 25.4	1.740	2.701	5.7	19.4
2 11	8 19.89	+32 45.9	1.769	2.695	9.0	19.6
2 21	8 9.82	+32 46.2	1.825	2.689	12.5	19.8
3 2	8 2.56	+32 29.0	1.903	2.682	15.6	20.0

209134 2003 SV_{243} 1 27.7 290°.24 0°.6/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.28	+15 10.0	1.561	2.375	16.5	21.0
1 2	8 59.20	+15 28.5	1.471	2.362	12.8	20.8
1 12	8 52.23	+16 0.4	1.402	2.350	8.3	20.5
1 22	8 43.03	+16 42.1	1.359	2.338	3.2	20.1
2 1	8 32.72	+17 28.1	1.343	2.325	2.3	20.0
2 11	8 22.78	+18 12.3	1.354	2.313	7.5	20.3
2 21	8 14.55	+18 49.8	1.391	2.301	12.4	20.6
3 2	8 9.10	+19 17.6	1.450	2.290	16.6	20.8

34966 3260 $T\text{-}_2$ 1 27.7 50°.23 1°.1/27.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.55	+18 50.8	1.810	2.624	14.6	18.5
1 2	8 58.12	+19 30.6	1.734	2.628	11.0	18.3
1 12	8 51.23	+20 19.2	1.682	2.632	6.9	18.0
1 22	8 42.56	+21 11.4	1.657	2.637	2.6	17.8
2 1	8 33.15	+22 1.4	1.660	2.641	2.6	17.8
2 11	8 24.23	+22 43.8	1.692	2.646	6.9	18.1
2 21	8 16.90	+23 15.3	1.751	2.650	10.9	18.3
3 2	8 11.96	+23 34.7	1.832	2.655	14.4	18.5

8583 Froberger 1 27.7 306°.84 0°.7/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.28	+18 49.0	2.202	3.009	12.5	19.4
1 2	8 56.11	+19 13.2	2.106	2.996	9.5	19.1
1 12	8 49.85	+19 44.4	2.035	2.984	6.0	18.9
1 22	8 42.04	+20 19.0	1.992	2.971	2.2	18.6
2 1	8 33.51	+20 53.0	1.977	2.959	2.0	18.6
2 11	8 25.26	+21 22.5	1.992	2.947	6.0	18.8
2 21	8 18.22	+21 44.6	2.035	2.935	9.6	19.0
3 2	8 13.14	+21 58.0	2.102	2.923	12.9	19.2

292933 2006 VG_{73} 1 27.7 90°.71 1°.5/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.46	+12 28.4	2.021	2.803	14.4	21.0
1 2	9 1.18	+12 41.9	1.964	2.836	11.0	20.8
1 12	8 52.79	+13 6.3	1.931	2.869	7.2	20.6
1 22	8 43.02	+13 38.5	1.926	2.901	3.2	20.5
2 1	8 32.87	+14 14.7	1.951	2.932	2.1	20.4
2 11	8 23.41	+14 50.8	2.006	2.962	5.7	20.7
2 21	8 15.51	+15 23.4	2.090	2.992	9.3	21.0
3 2	8 9.80	+15 50.5	2.199	3.021	12.3	21.2

327929 2007 DU_{63} 1 27.7 79°.76 0°.6/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.96	+14 47.6	1.844	2.647	14.8	21.4
1 2	8 58.26	+15 12.6	1.772	2.658	11.3	21.2
1 12	8 51.22	+15 48.9	1.723	2.669	7.2	20.9
1 22	8 42.54	+16 32.5	1.701	2.680	2.8	20.7
2 1	8 33.21	+17 18.7	1.708	2.691	1.9	20.6
2 11	8 24.42	+18 2.4	1.744	2.702	6.3	21.0
2 21	8 17.17	+18 39.7	1.807	2.713	10.3	21.2
3 2	8 12.21	+19 8.5	1.894	2.724	13.7	21.4

244050 2001 TV_{25} 1 27.7 155°.84 1°.5/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.42	+13 13.4	1.807	2.599	15.5	21.1
1 2	9 1.72	+13 20.5	1.728	2.606	12.0	20.9
1 12	8 53.47	+13 39.6	1.672	2.613	7.9	20.7
1 22	8 43.40	+14 7.7	1.642	2.619	3.4	20.4
2 1	8 32.57	+14 40.9	1.642	2.624	2.3	20.3
2 11	8 22.27	+15 14.6	1.671	2.629	6.5	20.6
2 21	8 13.62	+15 45.0	1.728	2.633	10.7	20.9
3 2	8 7.46	+16 9.6	1.808	2.636	14.3	21.1

495517 2014 VR_{13} 1 27.7 105°.85 6°.7/23.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.33	+34 9.4	1.978	2.790	13.6	21.4
1 2	9 2.59	+35 41.1	1.923	2.806	10.7	21.2
1 12	8 54.08	+37 8.4	1.893	2.821	8.0	21.1
1 22	8 43.62	+38 22.3	1.890	2.836	6.7	21.0
2 1	8 32.41	+39 15.3	1.916	2.851	7.6	21.1
2 11	8 21.88	+39 43.5	1.969	2.866	9.9	21.3
2 21	8 13.22	+39 47.8	2.047	2.880	12.6	21.5
3 2	8 7.28	+39 31.5	2.146	2.894	15.0	21.7

419160 2009 SZ_{344} 1 27.7 61°.53 2°.6/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.03	+23 5.5	1.805	2.623	14.4	21.4
1 2	8 59.25	+23 49.8	1.737	2.633	10.9	21.2
1 12	8 51.93	+24 38.8	1.693	2.642	6.9	21.0
1 22	8 42.82	+25 26.4	1.675	2.652	3.2	20.8
2 1	8 33.04	+26 6.4	1.686	2.662	3.7	20.8
2 11	8 23.85	+26 34.3	1.725	2.671	7.5	21.1
2 21	8 16.36	+26 48.3	1.791	2.681	11.3	21.3
3 2	8 11.36	+26 48.7	1.879	2.691	14.5	21.5

162570 2000 RA_{45} 1 27.7 97°.99 3°.0/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.66	+24 59.4	1.602	2.418	16.0	19.6
1 2	9 4.47	+25 23.8	1.538	2.432	12.2	19.4
1 12	8 55.30	+25 50.1	1.498	2.446	7.8	19.2
1 22	8 44.06	+26 11.8	1.483	2.459	3.8	19.0
2 1	8 32.15	+26 23.1	1.497	2.473	4.1	19.0
2 11	8 21.13	+26 20.8	1.539	2.486	8.2	19.3
2 21	8 12.26	+26 4.9	1.607	2.498	12.3	19.6
3 2	8 6.38	+25 37.5	1.698	2.511	15.8	19.8

67984 2000 XC_{17} 1 27.7 114°.07 1°.0/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.89	+20 9.3	1.723	2.532	15.4	19.3
1 2	9 2.90	+20 22.9	1.655	2.544	11.7	19.1
1 12	8 54.22	+20 42.3	1.609	2.557	7.4	18.9
1 22	8 43.66	+21 3.1	1.590	2.569	2.7	18.6
2 1	8 32.45	+21 20.3	1.600	2.581	2.5	18.7
2 11	8 21.95	+21 30.4	1.639	2.592	7.1	19.0
2 21	8 13.34	+21 31.7	1.704	2.603	11.2	19.2
3 2	8 7.41	+21 24.4	1.793	2.614	14.7	19.5

161105 2002 QS_{7} 1 27.7 79°.08 1°.0/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.35	+17 59.7	2.114	2.920	13.0	19.7
1 2	8 56.85	+18 54.6	2.043	2.932	9.8	19.5
1 12	8 50.25	+19 58.1	1.996	2.944	6.1	19.3
1 22	8 42.19	+21 5.1	1.977	2.957	2.3	19.1
2 1	8 33.54	+22 9.9	1.988	2.969	2.3	19.1
2 11	8 25.32	+23 7.4	2.029	2.981	6.1	19.4
2 21	8 18.43	+23 54.1	2.098	2.993	9.6	19.6
3 2	8 13.58	+24 28.6	2.191	3.005	12.7	19.8

342945 2009 AK_{35} 1 27.7 47°.67 0°.1/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.37	+17 12.5	2.186	2.989	12.8	21.6
1 2	8 56.79	+17 28.3	2.106	2.993	9.7	21.4
1 12	8 50.19	+17 51.4	2.050	2.996	6.2	21.2
1 22	8 42.17	+18 18.7	2.021	3.000	2.3	21.0
2 1	8 33.57	+18 46.6	2.022	3.004	1.7	20.9
2 11	8 25.37	+19 11.5	2.053	3.009	5.6	21.2
2 21	8 18.46	+19 30.9	2.111	3.013	9.2	21.4
3 2	8 13.51	+19 43.4	2.193	3.017	12.3	21.6

483430 2000 QC_{33} 1 27.7 111°.83 2°.6/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.90	+21 5.4	1.519	2.331	16.9	21.7
1 2	9 5.49	+22 9.2	1.462	2.355	12.8	21.5
1 12	8 55.99	+23 20.5	1.429	2.378	8.0	21.3
1 22	8 44.34	+24 31.2	1.422	2.399	3.5	21.1
2 1	8 31.97	+25 32.3	1.444	2.420	4.0	21.2
2 11	8 20.50	+26 17.8	1.494	2.440	8.4	21.5
2 21	8 11.28	+26 45.6	1.571	2.460	12.6	21.8
3 2	8 5.15	+26 56.7	1.669	2.478	16.2	22.1

426278 2012 SB_{34} 1 27.7 122°.34 3°.6/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.81	+29 16.9	2.449	3.256	11.4	21.6
1 2	8 59.28	+29 50.7	2.375	3.262	8.8	21.4
1 12	8 51.69	+30 23.0	2.327	3.268	5.9	21.3
1 22	8 42.70	+30 49.0	2.307	3.274	3.8	21.1
2 1	8 33.18	+31 4.5	2.317	3.280	4.3	21.2
2 11	8 24.15	+31 7.1	2.356	3.285	6.8	21.4
2 21	8 16.48	+30 56.5	2.423	3.291	9.6	21.5
3 2	8 10.83	+30 34.2	2.514	3.296	12.1	21.7

466359 2013 RX_{61} 1 27.7 134°.74 0°.8/27.2 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.63	+19 14.7	2.049	2.855	13.4	22.0
1 2	8 58.67	+19 35.9	1.969	2.858	10.2	21.8
1 12	8 51.46	+20 3.5	1.913	2.860	6.4	21.6
1 22	8 42.66	+20 33.7	1.883	2.863	2.4	21.3
2 1	8 33.20	+21 2.0	1.884	2.865	2.2	21.3
2 11	8 24.19	+21 24.8	1.914	2.867	6.2	21.6
2 21	8 16.61	+21 39.7	1.971	2.870	10.0	21.8
3 2	8 11.20	+21 46.0	2.053	2.872	13.2	22.0

192018 2005 YV_{109} 1 27.7 216°.15 1°.3/28.5 18

12 23	9 2.93	+13 22.5	2.331	3.116	12.6	20.8
1 2	8 57.91	+13 27.5	2.235	3.110	9.8	20.5
1 12	8 50.90	+13 41.6	2.165	3.104	6.4	20.3
1 22	8 42.45	+14 3.0	2.122	3.097	2.9	20.1
2 1	8 33.34	+14 28.8	2.109	3.090	1.9	20.0
2 11	8 24.53	+14 55.6	2.126	3.083	5.4	20.2
2 21	8 16.87	+15 20.7	2.172	3.075	8.9	20.4
3 2	8 11.07	+15 41.8	2.243	3.067	12.1	20.6

221359 2005 WM_{148} 1 27.7 149°.10 5°.4/23.6 18

12 23	9 6.17	+31 4.0	2.154	2.965	12.6	20.3
1 2	9 0.79	+32 30.9	2.085	2.972	9.8	20.1
1 12	8 52.93	+33 56.9	2.042	2.978	7.0	19.9
1 22	8 43.24	+35 14.3	2.028	2.984	5.4	19.9
2 1	8 32.77	+36 15.6	2.042	2.989	6.3	19.9
2 11	8 22.75	+36 56.5	2.085	2.994	8.8	20.1
2 21	8 14.29	+37 16.1	2.154	2.998	11.6	20.3
3 2	8 8.24	+37 16.4	2.245	3.003	14.1	20.4

32564 Glass 1 27.7 68°.49 6°.9/31.5 18

12 23	9 3.72	+ 0 44.0	1.729	2.483	17.5	18.6
1 2	8 58.83	+ 0 1.6	1.663	2.502	14.5	18.4
1 12	8 51.58	− 0 19.8	1.618	2.520	11.1	18.2
1 22	8 42.70	− 0 18.9	1.596	2.538	8.2	18.1
2 1	8 33.22	+ 0 3.4	1.602	2.556	6.9	18.1
2 11	8 24.34	+ 0 43.1	1.634	2.575	8.3	18.2
2 21	8 17.07	+ 1 34.3	1.692	2.593	11.2	18.4
3 2	8 12.13	+ 2 30.7	1.774	2.611	14.2	18.6

329338 2001 JW_2 1 27.7 116°.12 6°.2/30.5 12 C

12 23	9 22.42	+ 2 55.8	1.437	2.181	21.0	22.6
1 2	9 13.13	+ 2 33.6	1.382	2.220	16.9	22.4
1 12	9 0.63	+ 2 35.0	1.347	2.257	12.2	22.2
1 22	8 46.00	+ 2 59.7	1.338	2.292	7.9	22.1
2 1	8 30.83	+ 3 44.3	1.358	2.324	6.2	22.1
2 11	8 16.87	+ 4 41.9	1.408	2.354	8.9	22.3
2 21	8 5.48	+ 5 45.0	1.486	2.381	12.8	22.6
3 2	7 57.46	+ 6 46.8	1.587	2.406	16.4	22.9

495207 2013 CR_{116} 1 27.7 22°.06 1°.1/27.1 18

12 23	9 3.13	+17 26.8	1.360	2.188	17.7	21.1
1 2	8 59.33	+18 14.7	1.290	2.190	13.5	20.8
1 12	8 52.40	+19 16.5	1.241	2.193	8.5	20.6
1 22	8 43.14	+20 25.5	1.216	2.196	3.1	20.2
2 1	8 32.87	+21 33.4	1.218	2.200	3.0	20.2
2 11	8 23.24	+22 31.9	1.247	2.204	8.3	20.6
2 21	8 15.67	+23 16.0	1.300	2.208	13.3	20.9
3 2	8 11.17	+23 44.0	1.374	2.213	17.4	21.1

402067 2003 TF_{26} 1 27.7 114°.61 2°.6/26.4 18

12 23	9 9.53	+24 0.3	1.803	2.613	14.8	22.0
1 2	9 3.33	+24 31.3	1.737	2.628	11.2	21.8
1 12	8 54.47	+25 5.1	1.696	2.643	7.1	21.6
1 22	8 43.78	+25 35.7	1.681	2.658	3.3	21.4
2 1	8 32.45	+25 57.6	1.696	2.672	3.7	21.4
2 11	8 21.87	+26 7.3	1.740	2.685	7.5	21.7
2 21	8 13.18	+26 4.2	1.810	2.698	11.3	21.9
3 2	8 7.16	+25 49.4	1.904	2.711	14.6	22.2

237422 1999 AF_{35} 1 27.7 28°.05 0°.6/27.9 18

12 23	9 0.28	+13 32.3	1.004	1.849	21.3	19.7
1 2	8 57.67	+14 14.4	0.955	1.863	16.3	19.4
1 12	8 51.50	+15 18.0	0.924	1.878	10.4	19.2
1 22	8 42.80	+16 35.9	0.915	1.895	4.0	18.9
2 1	8 33.19	+17 57.8	0.930	1.913	2.7	18.8
2 11	8 24.60	+19 12.7	0.969	1.932	8.9	19.3
2 21	8 18.56	+20 13.3	1.030	1.953	14.3	19.6
3 2	8 15.98	+20 56.0	1.110	1.974	18.9	20.0

454885 2015 TE_{76} 1 27.7 32°.36 6°.0/30.5 18

12 23	9 1.90	+ 5 20.8	1.194	2.000	21.0	21.1
1 2	8 58.39	+ 4 51.8	1.135	2.012	16.9	20.9
1 12	8 51.75	+ 4 47.3	1.094	2.025	12.3	20.7
1 22	8 42.87	+ 5 7.9	1.075	2.038	7.8	20.5
2 1	8 33.15	+ 5 50.4	1.080	2.053	6.1	20.4
2 11	8 24.24	+ 6 47.7	1.110	2.068	8.9	20.6
2 21	8 17.51	+ 7 51.4	1.163	2.084	13.3	20.9
3 2	8 13.85	+ 8 53.6	1.237	2.101	17.3	21.2

205501 2001 RJ_{24} 1 27.7 115°.26 2°.3/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 59.44	+ 8 45.7	2.371	3.147	12.7	20.3
1 2	8 55.18	+ 9 7.0	2.286	3.151	10.0	20.1
1 12	8 49.13	+ 9 41.5	2.224	3.155	6.8	19.9
1 22	8 41.80	+10 27.2	2.189	3.160	3.6	19.7
2 1	8 33.93	+11 20.7	2.185	3.164	2.5	19.7
2 11	8 26.37	+12 17.7	2.210	3.168	5.2	19.9
2 21	8 19.89	+13 14.2	2.264	3.171	8.4	20.1
3 2	8 15.11	+14 6.4	2.344	3.175	11.4	20.3

473962 2016 EE_{187} 1 27.7 276°.40 3°.4/29.2 17

12 23	9 4.69	+10 19.4	1.895	2.679	15.1	21.3
1 2	8 59.74	+ 9 47.2	1.796	2.666	12.0	21.0
1 12	8 52.34	+ 9 25.9	1.720	2.652	8.4	20.8
1 22	8 43.09	+ 9 15.6	1.669	2.638	4.8	20.5
2 1	8 32.93	+ 9 15.1	1.648	2.624	3.6	20.4
2 11	8 23.06	+ 9 22.1	1.655	2.610	6.8	20.6
2 21	8 14.60	+ 9 33.5	1.689	2.596	10.8	20.8
3 2	8 8.44	+ 9 46.3	1.747	2.582	14.4	21.0

169259 2001 ST_{165} 1 27.7 74°.12 0°.2/27.8 18

12 23	9 2.18	+16 16.5	2.243	3.040	12.7	20.7
1 2	8 57.23	+16 35.8	2.176	3.059	9.6	20.5
1 12	8 50.37	+17 2.6	2.134	3.079	6.1	20.4
1 22	8 42.23	+17 33.9	2.120	3.098	2.3	20.1
2 1	8 33.65	+18 5.8	2.135	3.118	1.6	20.1
2 11	8 25.57	+18 35.1	2.181	3.137	5.3	20.4
2 21	8 18.78	+18 59.0	2.255	3.157	8.7	20.7
3 2	8 13.89	+19 16.2	2.354	3.176	11.6	20.9

130685 2000 SP_{127} 1 27.7 125°.75 0°.8/28.2 18

12 23	9 6.64	+13 25.9	1.973	2.761	14.5	19.9
1 2	9 0.87	+14 0.2	1.902	2.779	11.1	19.7
1 12	8 52.82	+14 46.2	1.856	2.797	7.1	19.5
1 22	8 43.18	+15 40.1	1.837	2.814	2.9	19.3
2 1	8 32.94	+16 36.8	1.848	2.831	1.9	19.2
2 11	8 23.25	+17 30.8	1.890	2.846	6.0	19.5
2 21	8 15.09	+18 18.2	1.960	2.861	9.9	19.8
3 2	8 9.19	+18 56.6	2.054	2.875	13.1	20.0

378987 2008 UO_{288} 1 27.7 138°.95 0°.5/27.3 18

12 23	9 2.19	+18 2.0	2.308	3.107	12.3	21.7
1 2	8 57.35	+18 32.8	2.227	3.113	9.3	21.5
1 12	8 50.54	+19 10.6	2.172	3.118	5.9	21.3
1 22	8 42.34	+19 51.6	2.144	3.123	2.1	21.1
2 1	8 33.56	+20 31.9	2.147	3.128	1.9	21.1
2 11	8 25.17	+21 7.4	2.180	3.133	5.6	21.3
2 21	8 18.00	+21 35.5	2.241	3.138	9.0	21.5
3 2	8 12.73	+21 55.0	2.327	3.142	12.0	21.7

276303 2002 TU_{122} 1 27.7 71°.55 5°.3/31.1 18

12 23	9 1.15	+ 2 30.6	2.160	2.912	14.5	20.0
1 2	8 56.55	+ 2 1.7	2.083	2.923	11.9	19.8
1 12	8 50.01	+ 1 48.8	2.028	2.934	9.0	19.7
1 22	8 42.14	+ 1 52.6	1.998	2.945	6.4	19.5
2 1	8 33.73	+ 2 12.0	1.996	2.956	5.3	19.5
2 11	8 25.73	+ 2 44.1	2.023	2.967	6.8	19.6
2 21	8 18.96	+ 3 24.5	2.077	2.978	9.4	19.8
3 2	8 14.06	+ 4 8.8	2.156	2.989	12.2	20.0

448217 2008 UY_{276} 1 27.7 23°.87 2°.4/28.7 17

12 23	9 1.65	+12 27.8	1.077	1.912	20.9	21.3
1 2	8 58.56	+12 24.0	1.021	1.921	16.2	21.0
1 12	8 52.03	+12 39.4	0.983	1.932	10.7	20.8
1 22	8 43.02	+13 10.8	0.967	1.944	4.9	20.5
2 1	8 33.09	+13 52.5	0.974	1.956	3.2	20.4
2 11	8 24.08	+14 36.8	1.006	1.970	8.5	20.8
2 21	8 17.50	+15 17.1	1.061	1.986	13.8	21.1
3 2	8 14.29	+15 49.0	1.135	2.002	18.4	21.4

288742 2004 RX_{57} 1 27.7 94°.37 3°.2/29.4 17

12 23	9 6.80	+ 8 49.4	1.603	2.390	17.3	21.4
1 2	9 1.34	+ 8 51.1	1.539	2.411	13.6	21.2
1 12	8 53.25	+ 9 9.9	1.498	2.431	9.3	21.0
1 22	8 43.36	+ 9 43.7	1.481	2.451	5.0	20.8
2 1	8 32.84	+10 28.2	1.493	2.471	3.5	20.8
2 11	8 23.04	+11 17.8	1.533	2.490	7.0	21.0
2 21	8 15.08	+12 6.9	1.599	2.509	11.1	21.3
3 2	8 9.74	+12 51.3	1.689	2.527	14.7	21.6

64656 2001 XL_{59} 1 27.7 116°.63 1°.0/27.2 18

12 23	9 6.48	+18 3.5	1.599	2.412	16.2	19.6
1 2	9 1.38	+18 43.9	1.529	2.422	12.3	19.4
1 12	8 53.46	+19 34.8	1.482	2.431	7.8	19.1
1 22	8 43.50	+20 30.4	1.461	2.440	2.8	18.9
2 1	8 32.72	+21 23.7	1.468	2.449	2.7	18.9
2 11	8 22.58	+22 8.6	1.503	2.457	7.5	19.2
2 21	8 14.33	+22 41.6	1.564	2.465	11.9	19.5
3 2	8 8.84	+23 1.6	1.648	2.473	15.6	19.7

103580 2000 CF_4 1 27.7 321°.76 0°.6/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.33	+14 46.7	1.584	2.398	16.3	19.5
1 2	8 58.38	+15 10.3	1.501	2.392	12.6	19.2
1 12	8 51.67	+15 47.6	1.439	2.387	8.1	18.9
1 22	8 42.89	+16 34.8	1.403	2.381	3.2	18.6
2 1	8 33.14	+17 26.3	1.394	2.377	2.2	18.6
2 11	8 23.82	+18 15.6	1.413	2.372	7.2	18.9
2 21	8 16.21	+18 58.0	1.457	2.368	11.9	19.1
3 2	8 11.26	+19 30.2	1.524	2.364	15.9	19.3

463696 2014 PO_5 1 27.7 46°.89 0°.6/27.5 16

12 23	9 7.19	+18 40.3	1.331	2.156	18.2	21.0
1 2	9 2.00	+18 53.7	1.284	2.182	13.7	20.8
1 12	8 53.77	+19 16.1	1.259	2.210	8.6	20.6
1 22	8 43.54	+19 42.1	1.258	2.237	3.1	20.4
2 1	8 32.79	+20 5.8	1.283	2.266	2.6	20.4
2 11	8 23.12	+20 22.7	1.336	2.294	7.7	20.8
2 21	8 15.75	+20 30.6	1.413	2.323	12.3	21.1
3 2	8 11.42	+20 29.1	1.513	2.352	16.1	21.4

119976 2002 VR_{130} 1 27.7 45°.28 0°.1/28.5 15

12 23	8 42.69	+15 6.4	19.167	19.945	1.8	24.2
1 2	8 41.38	+15 10.8	19.087	19.959	1.3	24.2
1 12	8 39.90	+15 16.1	19.035	19.974	0.9	24.1
1 22	8 38.31	+15 22.1	19.012	19.989	0.4	24.1
2 1	8 36.67	+15 28.5	19.021	20.003	0.2	24.1
2 11	8 35.06	+15 35.0	19.061	20.018	0.7	24.1
2 21	8 33.56	+15 41.4	19.131	20.032	1.2	24.2
3 2	8 32.22	+15 47.3	19.230	20.047	1.6	24.2

163751 2003 OQ 1 27.7 151°.42 1°.4/26.9 18

12 23	9 7.88	+20 31.6	2.013	2.815	13.8	20.9
1 2	9 1.92	+21 5.8	1.937	2.824	10.4	20.7
1 12	8 53.56	+21 45.9	1.886	2.833	6.6	20.4
1 22	8 43.50	+22 26.8	1.863	2.841	2.6	20.2
2 1	8 32.76	+23 3.5	1.869	2.849	2.7	20.2
2 11	8 22.55	+23 31.6	1.906	2.855	6.6	20.5
2 21	8 13.91	+23 49.1	1.970	2.861	10.4	20.7
3 2	8 7.63	+23 55.8	2.059	2.867	13.6	20.9

431472 2007 RH_{321} 1 27.7 167°.23 5°.6/23.8 16

12 23	9 9.75	+37 53.8	2.732	3.522	10.8	21.6
1 2	9 2.98	+38 33.8	2.659	3.526	8.7	21.5
1 12	8 54.04	+39 6.9	2.613	3.529	6.7	21.3
1 22	8 43.62	+39 27.6	2.594	3.532	5.6	21.3
2 1	8 32.69	+39 31.7	2.605	3.535	6.2	21.3
2 11	8 22.32	+39 17.6	2.646	3.537	7.9	21.4
2 21	8 13.43	+38 46.5	2.713	3.539	10.1	21.6
3 2	8 6.70	+38 1.3	2.804	3.540	12.1	21.7

472596 2015 DE_{137} 1 27.7 350°.38 2°.7/25.9 18

12 23	9 1.39	+23 31.8	2.059	2.876	12.9	21.0
1 2	8 57.13	+24 21.8	1.979	2.874	9.8	20.8
1 12	8 50.60	+25 16.5	1.923	2.872	6.3	20.6
1 22	8 42.44	+26 10.2	1.895	2.871	3.1	20.4
2 1	8 33.55	+26 57.2	1.896	2.870	3.7	20.4
2 11	8 25.06	+27 32.9	1.926	2.869	7.1	20.6
2 21	8 17.97	+27 55.0	1.982	2.869	10.6	20.8
3 2	8 13.06	+28 3.4	2.062	2.868	13.6	21.0

195259 2002 EY_{53} 1 27.7 35°.31 0°.7/28.0 18

12 23	9 4.19	+15 39.4	1.234	2.063	19.1	20.1
1 2	9 0.18	+15 49.0	1.174	2.073	14.6	19.9
1 12	8 52.92	+16 12.5	1.134	2.085	9.4	19.6
1 22	8 43.35	+16 45.4	1.118	2.098	3.6	19.3
2 1	8 32.94	+17 21.5	1.128	2.111	2.5	19.3
2 11	8 23.40	+17 54.6	1.163	2.124	8.1	19.6
2 21	8 16.15	+18 20.1	1.222	2.139	13.1	20.0
3 2	8 12.08	+18 36.0	1.302	2.154	17.4	20.3

136068 2002 XH_{93} 1 27.7 358°.80 2°.8/25.9 18

12 23	9 1.10	+23 52.2	1.973	2.793	13.3	19.4
1 2	8 57.00	+24 39.9	1.895	2.792	10.1	19.2
1 12	8 50.57	+25 32.0	1.841	2.791	6.5	18.9
1 22	8 42.44	+26 22.8	1.815	2.790	3.3	18.7
2 1	8 33.59	+27 6.3	1.817	2.790	3.8	18.8
2 11	8 25.17	+27 38.1	1.847	2.790	7.3	19.0
2 21	8 18.22	+27 56.0	1.903	2.791	10.8	19.2
3 2	8 13.52	+27 59.9	1.983	2.792	14.0	19.4

260689 2005 JR_{93} 1 27.7 175°.01 5°.0/24.1 18

12 23	9 8.68	+32 13.0	2.422	3.223	11.7	21.3
1 2	9 2.45	+33 17.9	2.346	3.226	9.2	21.1
1 12	8 53.89	+34 20.5	2.297	3.229	6.6	21.0
1 22	8 43.65	+35 14.1	2.276	3.231	5.0	20.9
2 1	8 32.70	+35 52.9	2.285	3.232	5.7	20.9
2 11	8 22.19	+36 13.6	2.324	3.232	8.0	21.0
2 21	8 13.14	+36 15.9	2.389	3.232	10.7	21.2
3 2	8 6.33	+36 1.9	2.478	3.231	13.1	21.4

75527 1999 XY_{213} 1 27.7 289°.18 4°.2/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.52	+23 22.3	1.649	2.474	15.2	19.0
1 2	8 59.47	+25 1.7	1.570	2.469	11.6	18.8
1 12	8 52.50	+26 50.9	1.515	2.465	7.6	18.5
1 22	8 43.28	+28 40.3	1.487	2.460	4.4	18.3
2 1	8 32.93	+30 19.2	1.488	2.456	5.5	18.4
2 11	8 22.95	+31 39.0	1.517	2.452	9.4	18.6
2 21	8 14.73	+32 35.3	1.571	2.447	13.4	18.8
3 2	8 9.32	+33 8.3	1.646	2.443	16.9	19.0

162813 2001 BE_9 1 27.7 75°.96 2°.7/26.0 18

12 23	9 7.81	+19 55.9	1.549	2.365	16.5	19.6
1 2	9 2.33	+21 28.5	1.500	2.395	12.3	19.4
1 12	8 53.99	+23 10.1	1.475	2.425	7.7	19.2
1 22	8 43.69	+24 51.2	1.477	2.455	3.4	19.0
2 1	8 32.75	+26 21.9	1.508	2.484	4.1	19.1
2 11	8 22.65	+27 34.8	1.568	2.513	8.3	19.5
2 21	8 14.61	+28 27.1	1.654	2.541	12.2	19.8
3 2	8 9.42	+28 59.1	1.762	2.569	15.6	20.0

63500 2001 OS_{69} 1 27.7 135°.81 0°.3/27.9 18

12 23	9 4.66	+15 8.0	2.330	3.117	12.6	21.0
1 2	8 59.13	+15 40.1	2.255	3.132	9.6	20.8
1 12	8 51.63	+16 20.9	2.204	3.146	6.1	20.6
1 22	8 42.79	+17 7.2	2.182	3.160	2.3	20.4
2 1	8 33.42	+17 54.5	2.190	3.173	1.6	20.3
2 11	8 24.46	+18 38.9	2.230	3.185	5.3	20.6
2 21	8 16.77	+19 17.2	2.299	3.197	8.8	20.8
3 2	8 10.99	+19 47.6	2.393	3.207	11.7	21.0

295426 2008 KT_{26} 1 27.7 262°.31 6°.8/31.8 17

12 23	9 1.69	− 1 24.6	2.119	2.851	15.4	21.0
1 2	8 57.32	− 1 55.5	2.012	2.834	13.0	20.7
1 12	8 50.78	− 2 7.7	1.926	2.816	10.3	20.5
1 22	8 42.59	− 1 59.0	1.865	2.797	7.9	20.3
2 1	8 33.52	− 1 29.3	1.830	2.778	6.8	20.2
2 11	8 24.60	− 0 41.1	1.824	2.759	8.1	20.3
2 21	8 16.79	+ 0 20.8	1.844	2.740	10.7	20.4
3 2	8 10.93	+ 1 30.2	1.889	2.720	13.7	20.5

465973 2011 CM_{20} 1 27.7 157°.63 0°.1/27.8 18

12 23	9 7.43	+18 27.5	2.132	2.927	13.3	21.2
1 2	9 1.43	+18 18.1	2.049	2.931	10.2	20.9
1 12	8 53.20	+18 13.6	1.990	2.934	6.5	20.7
1 22	8 43.40	+18 11.4	1.959	2.938	2.4	20.5
2 1	8 33.00	+18 8.9	1.958	2.941	1.8	20.4
2 11	8 23.10	+18 3.8	1.988	2.943	5.9	20.7
2 21	8 14.66	+17 55.0	2.046	2.946	9.6	20.9
3 2	8 8.39	+17 41.8	2.129	2.948	12.8	21.1

227066 2005 GB_{26} 1 27.7 133°.80 1°.1/27.2 17

12 23	9 10.43	+18 43.7	1.618	2.424	16.3	21.5
1 2	9 4.33	+19 19.0	1.550	2.439	12.4	21.3
1 12	8 55.32	+20 3.3	1.504	2.452	7.8	21.1
1 22	8 44.24	+20 50.8	1.486	2.465	2.9	20.8
2 1	8 32.39	+21 34.8	1.496	2.477	2.7	20.8
2 11	8 21.25	+22 10.0	1.535	2.488	7.5	21.2
2 21	8 12.12	+22 33.4	1.601	2.498	11.9	21.4
3 2	8 5.86	+22 44.7	1.689	2.508	15.6	21.7

261401 2005 UH_{451} 1 27.7 317°.00 2°.5/26.4 18

12 23	9 3.14	+22 44.3	1.648	2.473	15.2	20.4
1 2	8 59.11	+23 18.5	1.560	2.459	11.7	20.1
1 12	8 52.24	+23 58.8	1.495	2.446	7.5	19.9
1 22	8 43.19	+24 39.5	1.455	2.433	3.4	19.6
2 1	8 33.10	+25 14.0	1.443	2.420	3.8	19.6
2 11	8 23.42	+25 36.9	1.458	2.408	8.2	19.8
2 21	8 15.48	+25 45.7	1.498	2.397	12.5	20.0
3 2	8 10.27	+25 40.4	1.561	2.386	16.4	20.2

180022 2003 AD_{16} 1 27.7 105°.64 0°.4/27.5 18 R

12 23	9 7.03	+17 50.9	2.047	2.843	13.7	20.9
1 2	9 1.07	+18 14.6	1.982	2.866	10.4	20.7
1 12	8 52.92	+18 45.3	1.942	2.888	6.5	20.5
1 22	8 43.28	+19 19.0	1.930	2.909	2.4	20.3
2 1	8 33.15	+19 51.4	1.948	2.930	1.9	20.3
2 11	8 23.64	+20 18.5	1.996	2.950	6.0	20.6
2 21	8 15.67	+20 38.3	2.073	2.970	9.6	20.9
3 2	8 9.91	+20 49.7	2.174	2.989	12.7	21.1

376992 2002 PW_{118} 1 27.7 57°.81 0°.5/27.9 18

12 23	9 6.67	+17 15.4	1.912	2.712	14.4	20.5
1 2	9 0.80	+17 5.8	1.855	2.739	11.0	20.3
1 12	8 52.71	+17 2.9	1.821	2.766	7.0	20.1
1 22	8 43.19	+17 4.1	1.815	2.793	2.7	19.9
2 1	8 33.28	+17 6.3	1.838	2.821	1.8	19.9
2 11	8 24.11	+17 7.2	1.891	2.848	5.9	20.2
2 21	8 16.60	+17 5.0	1.971	2.875	9.6	20.5
3 2	8 11.38	+16 58.9	2.076	2.903	12.8	20.8

226003 2002 DG_{20} 1 27.7 242°.73 2°.2/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.19	+22 53.3	1.993	2.806	13.5	21.0
1 2	8 59.32	+23 27.7	1.912	2.804	10.2	20.8
1 12	8 52.06	+24 6.6	1.854	2.802	6.5	20.6
1 22	8 43.06	+24 44.7	1.823	2.801	2.9	20.3
2 1	8 33.31	+25 16.9	1.822	2.799	3.3	20.4
2 11	8 24.01	+25 39.0	1.850	2.797	7.0	20.6
2 21	8 16.20	+25 49.1	1.904	2.795	10.7	20.8
3 2	8 10.70	+25 47.4	1.982	2.793	13.9	21.0

30692 5040 $T\text{-}_2$ 1 27.7 238°.74 5°.7/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.71	+33 53.7	2.040	2.843	13.6	19.6
1 2	9 6.03	+34 29.8	1.952	2.832	10.7	19.4
1 12	8 56.45	+35 1.0	1.888	2.820	7.8	19.2
1 22	8 44.73	+35 19.9	1.851	2.807	5.8	19.0
2 1	8 32.10	+35 20.5	1.843	2.794	6.5	19.1
2 11	8 20.03	+34 59.9	1.864	2.781	9.2	19.2
2 21	8 9.84	+34 19.6	1.911	2.767	12.3	19.4
3 2	8 2.47	+33 23.4	1.981	2.753	15.3	19.5

199332 2006 BU_{131} 1 27.7 77°.47 1°.4/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.00	+12 10.1	1.983	2.776	14.2	20.5
1 2	8 57.43	+12 32.6	1.911	2.790	11.0	20.3
1 12	8 50.72	+13 7.6	1.862	2.803	7.2	20.1
1 22	8 42.53	+13 51.9	1.840	2.816	3.2	19.9
2 1	8 33.76	+14 41.4	1.847	2.829	2.0	19.8
2 11	8 25.46	+15 31.1	1.884	2.843	5.8	20.1
2 21	8 18.55	+16 16.9	1.948	2.856	9.5	20.4
3 2	8 13.74	+16 55.8	2.037	2.869	12.8	20.6

484964 2009 TR_{10} 1 27.7 85°.23 4°.1/25.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.87	+24 47.1	1.334	2.158	18.2	21.5
1 2	9 6.61	+25 44.4	1.286	2.183	13.8	21.3
1 12	8 56.90	+26 45.2	1.259	2.208	8.9	21.1
1 22	8 44.85	+27 39.8	1.258	2.233	4.6	20.9
2 1	8 32.12	+28 19.6	1.284	2.257	5.3	21.0
2 11	8 20.57	+28 39.5	1.337	2.281	9.5	21.3
2 21	8 11.64	+28 39.9	1.415	2.304	13.8	21.7
3 2	8 6.16	+28 23.7	1.513	2.326	17.4	21.9

53412 1999 NQ_1 1 27.7 270°.27 5°.1/31.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.70	− 0 50.9	2.253	2.983	14.6	19.0
1 2	8 57.33	− 0 22.2	2.130	2.957	12.2	18.7
1 12	8 50.84	+ 0 29.3	2.030	2.930	9.3	18.5
1 22	8 42.68	+ 1 44.2	1.956	2.902	6.5	18.3
2 1	8 33.56	+ 3 20.0	1.911	2.874	5.1	18.1
2 11	8 24.45	+ 5 11.3	1.897	2.846	6.7	18.2
2 21	8 16.31	+ 7 10.7	1.913	2.817	9.9	18.3
3 2	8 10.00	+ 9 10.2	1.955	2.787	13.3	18.5

196515 2003 NP_{11} 1 27.7 255°.22 2°.5/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.54	+11 5.0	2.180	2.961	13.5	20.8
1 2	8 58.60	+10 49.9	2.080	2.949	10.7	20.6
1 12	8 51.54	+10 45.1	2.003	2.936	7.3	20.4
1 22	8 42.88	+10 49.6	1.953	2.924	3.9	20.1
2 1	8 33.46	+11 1.6	1.932	2.911	2.8	20.0
2 11	8 24.31	+11 18.4	1.942	2.898	5.9	20.2
2 21	8 16.35	+11 37.0	1.979	2.884	9.5	20.4
3 2	8 10.38	+11 54.8	2.041	2.871	12.8	20.6

155956 2001 QX_{98} 1 27.8 135°.47 2°.2/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.84	+11 37.6	1.772	2.559	15.9	20.2
1 2	9 2.09	+11 39.3	1.697	2.571	12.4	20.0
1 12	8 53.79	+11 54.2	1.645	2.583	8.3	19.8
1 22	8 43.70	+12 19.9	1.620	2.594	4.0	19.6
2 1	8 32.91	+12 52.6	1.623	2.604	2.6	19.5
2 11	8 22.70	+13 27.8	1.656	2.614	6.6	19.8
2 21	8 14.18	+14 1.4	1.716	2.623	10.7	20.0
3 2	8 8.15	+14 30.3	1.801	2.631	14.3	20.3

208453 2001 TO_{172} 1 27.8 60°.52 4°.6/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.95	+30 34.8	2.209	3.023	12.3	20.0
1 2	8 58.98	+31 29.2	2.142	3.031	9.5	19.8
1 12	8 51.74	+32 21.9	2.099	3.038	6.6	19.6
1 22	8 42.92	+33 6.8	2.084	3.046	4.7	19.5
2 1	8 33.49	+33 38.3	2.098	3.054	5.4	19.6
2 11	8 24.58	+33 53.4	2.141	3.062	7.9	19.7
2 21	8 17.17	+33 51.7	2.209	3.070	10.7	19.9
3 2	8 11.96	+33 34.9	2.301	3.079	13.2	20.1

108679 2001 OF_6 1 27.8 75°.15 3°.5/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.60	+10 52.7	1.748	2.534	16.1	19.1
1 2	9 1.86	+10 8.9	1.675	2.546	12.7	18.9
1 12	8 53.61	+ 9 36.5	1.624	2.557	8.8	18.7
1 22	8 43.62	+ 9 15.2	1.599	2.568	4.9	18.5
2 1	8 33.00	+ 9 4.1	1.603	2.579	3.8	18.4
2 11	8 23.00	+ 9 0.9	1.636	2.591	6.9	18.7
2 21	8 14.71	+ 9 2.9	1.695	2.602	10.8	18.9
3 2	8 8.91	+ 9 7.2	1.778	2.613	14.2	19.1

184093 2004 GG_{77} 1 27.8 165°.67 7°.9/ 1.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 1.91	− 7 24.9	2.652	3.331	13.7	20.2
1 2	8 56.94	− 8 30.7	2.562	3.333	12.0	20.1
1 12	8 50.26	− 9 19.7	2.494	3.334	10.2	20.0
1 22	8 42.35	− 9 49.2	2.451	3.336	8.6	19.9
2 1	8 33.90	− 9 57.9	2.434	3.337	7.9	19.8
2 11	8 25.68	− 9 46.7	2.445	3.338	8.4	19.8
2 21	8 18.43	− 9 18.8	2.482	3.339	9.8	19.9
3 2	8 12.75	− 8 38.4	2.544	3.340	11.6	20.1

152380 2005 UB_{202} 1 27.8 232°.14 1°.3/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.48	+19 36.2	1.931	2.742	13.9	20.4
1 2	8 58.85	+20 12.1	1.848	2.740	10.6	20.2
1 12	8 51.80	+20 55.6	1.789	2.738	6.7	20.0
1 22	8 43.00	+21 42.1	1.756	2.736	2.6	19.7
2 1	8 33.42	+22 26.0	1.753	2.733	2.6	19.7
2 11	8 24.24	+23 2.4	1.779	2.731	6.7	19.9
2 21	8 16.54	+23 28.4	1.832	2.729	10.7	20.2
3 2	8 11.15	+23 43.1	1.908	2.727	14.1	20.4

88458 2001 QG_{95} 1 27.8 1°.63 2°.0/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 56.45	+11 55.8	1.156	1.993	19.6	18.0
1 2	8 54.63	+12 10.5	1.087	1.990	15.3	17.7
1 12	8 49.66	+12 45.8	1.038	1.988	10.2	17.4
1 22	8 42.31	+13 38.7	1.011	1.988	4.6	17.1
2 1	8 33.92	+14 42.4	1.008	1.991	2.8	17.0
2 11	8 26.16	+15 48.2	1.029	1.994	8.2	17.3
2 21	8 20.49	+16 48.0	1.073	2.000	13.5	17.6
3 2	8 17.93	+17 36.5	1.137	2.007	18.1	17.9

52124 4272 $P\text{–}L$ 1 27.8 37°.09 3°.3/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.61	+10 28.6	1.289	2.103	19.3	18.9
1 2	8 59.43	+10 14.1	1.236	2.123	15.1	18.7
1 12	8 52.30	+10 17.7	1.204	2.145	10.2	18.5
1 22	8 43.16	+10 37.2	1.194	2.167	5.3	18.3
2 1	8 33.38	+11 8.4	1.211	2.190	3.7	18.3
2 11	8 24.51	+11 45.4	1.253	2.214	7.7	18.6
2 21	8 17.77	+12 22.5	1.320	2.239	12.2	18.9
3 2	8 13.94	+12 55.2	1.408	2.264	16.1	19.2

89398 2001 VH_{119} 1 27.8 202°.11 4°.7/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.54	+32 31.7	2.653	3.459	10.7	20.0
1 2	8 58.45	+33 31.8	2.575	3.457	8.3	19.8
1 12	8 51.35	+34 29.7	2.522	3.455	6.1	19.7
1 22	8 42.79	+35 19.8	2.498	3.452	4.7	19.6
2 1	8 33.59	+35 57.1	2.504	3.449	5.4	19.6
2 11	8 24.74	+36 18.6	2.538	3.446	7.5	19.7
2 21	8 17.11	+36 23.7	2.599	3.443	9.9	19.9
3 2	8 11.39	+36 13.6	2.684	3.440	12.1	20.1

520875 2014 WV_{311} 1 27.8 139°.58 1°.9/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.86	+22 30.3	1.973	2.783	13.7	21.7
1 2	9 0.54	+22 53.8	1.895	2.786	10.4	21.5
1 12	8 52.80	+23 21.2	1.841	2.789	6.6	21.3
1 22	8 43.34	+23 47.8	1.814	2.792	2.8	21.0
2 1	8 33.20	+24 8.9	1.817	2.795	3.0	21.0
2 11	8 23.58	+24 20.9	1.849	2.798	6.8	21.3
2 21	8 15.52	+24 22.5	1.907	2.800	10.5	21.5
3 2	8 9.82	+24 13.8	1.990	2.803	13.8	21.7

118683 2000 NE_{11} 1 27.8 223°.99 0°.4/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.50	+17 35.3	2.171	2.963	13.2	20.3
1 2	9 1.59	+17 24.6	2.075	2.955	10.2	20.1
1 12	8 53.41	+17 19.2	2.004	2.947	6.6	19.9
1 22	8 43.58	+17 16.8	1.960	2.939	2.5	19.6
2 1	8 33.01	+17 15.0	1.947	2.930	1.8	19.5
2 11	8 22.80	+17 11.3	1.965	2.920	5.9	19.8
2 21	8 13.97	+17 4.4	2.011	2.911	9.7	20.0
3 2	8 7.28	+16 53.5	2.082	2.901	13.0	20.2

222332 2000 UT_{72} 1 27.8 219°.94 5°.4/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.71	+ 2 23.2	2.247	2.992	14.2	20.2
1 2	8 57.87	+ 1 51.8	2.151	2.986	11.7	20.1
1 12	8 51.02	+ 1 35.7	2.077	2.980	9.0	19.9
1 22	8 42.69	+ 1 35.7	2.029	2.974	6.4	19.7
2 1	8 33.67	+ 1 51.4	2.009	2.967	5.4	19.6
2 11	8 24.91	+ 2 20.4	2.018	2.960	6.9	19.7
2 21	8 17.28	+ 2 58.8	2.055	2.953	9.7	19.8
3 2	8 11.51	+ 3 42.1	2.117	2.945	12.5	20.0

424701 2008 SY_{43} 1 27.8 62°.42 1°.0/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.47	+13 54.4	1.929	2.724	14.5	22.0
1 2	8 59.15	+14 12.2	1.875	2.756	11.0	21.9
1 12	8 51.70	+14 40.4	1.845	2.788	7.1	21.7
1 22	8 42.87	+15 15.5	1.842	2.819	2.9	21.5
2 1	8 33.63	+15 53.4	1.868	2.850	1.8	21.5
2 11	8 25.06	+16 29.7	1.923	2.881	5.8	21.8
2 21	8 18.05	+17 1.3	2.006	2.912	9.4	22.1
3 2	8 13.21	+17 26.1	2.114	2.943	12.5	22.3

442565 2012 AX_{23} 1 27.8 323°.00 2°.2/26.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 0.45	+25 55.9	2.842	3.648	10.0	20.3
1 2	8 55.85	+26 14.4	2.751	3.639	7.6	20.1
1 12	8 49.57	+26 33.3	2.686	3.631	5.0	20.0
1 22	8 42.10	+26 49.5	2.650	3.624	2.6	19.8
2 1	8 34.14	+26 59.7	2.643	3.616	2.9	19.8
2 11	8 26.47	+27 2.0	2.668	3.609	5.5	20.0
2 21	8 19.82	+26 55.3	2.720	3.601	8.2	20.1
3 2	8 14.77	+26 40.0	2.797	3.594	10.6	20.3

78887 2003 SS_{32} 1 27.8 113°.21 1°.2/28.4 18

12 23	9 5.82	+13 15.6	1.760	2.556	15.6	20.0
1 2	9 0.60	+13 33.8	1.689	2.569	12.0	19.8
1 12	8 52.87	+14 4.7	1.640	2.582	7.8	19.6
1 22	8 43.38	+14 44.9	1.618	2.594	3.3	19.3
2 1	8 33.22	+15 29.6	1.624	2.607	2.1	19.3
2 11	8 23.63	+16 13.5	1.660	2.618	6.5	19.6
2 21	8 15.70	+16 52.5	1.723	2.630	10.6	19.9
3 2	8 10.22	+17 23.9	1.809	2.640	14.2	20.1

104164 2000 EP_{77} 1 27.8 167°.31 3°.3/25.7 18

12 23	9 6.05	+28 6.2	2.392	3.197	11.7	19.8
1 2	9 0.35	+28 35.0	2.313	3.200	9.0	19.7
1 12	8 52.53	+29 3.1	2.259	3.202	6.0	19.5
1 22	8 43.22	+29 25.6	2.233	3.203	3.6	19.3
2 1	8 33.34	+29 38.5	2.238	3.205	4.0	19.3
2 11	8 23.92	+29 39.1	2.272	3.206	6.8	19.5
2 21	8 15.88	+29 27.1	2.333	3.207	9.7	19.7
3 2	8 9.92	+29 3.9	2.419	3.207	12.4	19.9

309383 2007 TD_{147} 1 27.8 158°.01 4°.1/25.5 18

12 23	9 9.47	+27 8.6	1.860	2.672	14.3	21.0
1 2	9 3.53	+27 59.9	1.787	2.678	11.0	20.8
1 12	8 54.84	+28 52.5	1.739	2.683	7.3	20.6
1 22	8 44.15	+29 39.2	1.717	2.688	4.4	20.4
2 1	8 32.66	+30 13.3	1.725	2.692	5.0	20.5
2 11	8 21.78	+30 30.6	1.761	2.695	8.3	20.7
2 21	8 12.73	+30 30.4	1.824	2.699	11.9	20.9
3 2	8 6.39	+30 14.8	1.909	2.701	15.1	21.1

503388 2016 CY_{120} 1 27.8 310°.70 2°.4/28.8 17

12 23	9 2.26	+12 28.7	1.566	2.375	16.7	21.3
1 2	8 58.55	+12 17.4	1.468	2.354	13.2	21.1
1 12	8 52.00	+12 19.4	1.392	2.334	8.9	20.8
1 22	8 43.22	+12 33.6	1.340	2.315	4.3	20.4
2 1	8 33.27	+12 57.0	1.314	2.295	2.9	20.3
2 11	8 23.57	+13 25.1	1.316	2.277	7.5	20.5
2 21	8 15.49	+13 53.4	1.343	2.258	12.3	20.7
3 2	8 10.10	+14 18.1	1.391	2.241	16.6	21.0

287983 2003 UQ_{165} 1 27.8 189°.35 1°.8/26.6 18

12 23	9 7.40	+21 41.0	2.119	2.921	13.2	21.6
1 2	9 1.65	+22 18.5	2.033	2.920	10.0	21.4
1 12	8 53.53	+23 1.2	1.972	2.918	6.4	21.2
1 22	8 43.67	+23 44.2	1.939	2.916	2.7	20.9
2 1	8 33.04	+24 22.1	1.936	2.913	2.9	21.0
2 11	8 22.80	+24 50.8	1.963	2.910	6.7	21.2
2 21	8 14.02	+25 8.1	2.018	2.905	10.3	21.4
3 2	8 7.49	+25 13.8	2.097	2.900	13.5	21.6

279953 2001 SH_{187} 1 27.8 105°.19 0°.4/28.0 18

12 23	9 1.95	+15 37.0	2.498	3.288	11.7	21.6
1 2	8 56.99	+15 57.0	2.424	3.303	8.9	21.4
1 12	8 50.28	+16 24.4	2.375	3.318	5.7	21.2
1 22	8 42.38	+16 56.3	2.355	3.333	2.2	21.0
2 1	8 34.04	+17 29.6	2.365	3.347	1.5	21.0
2 11	8 26.09	+18 0.9	2.405	3.362	4.9	21.3
2 21	8 19.27	+18 27.6	2.475	3.375	8.1	21.5
3 2	8 14.17	+18 48.4	2.570	3.389	10.8	21.7

216076 2006 QV_{46} 1 27.8 44°.03 1°.5/28.8 18

12 23	9 1.43	+ 8 50.2	1.355	2.164	18.8	20.0
1 2	8 57.85	+10 5.1	1.297	2.183	14.5	19.8
1 12	8 51.40	+11 44.2	1.259	2.203	9.5	19.5
1 22	8 42.91	+13 40.7	1.247	2.224	4.1	19.3
2 1	8 33.66	+15 44.2	1.262	2.245	2.4	19.2
2 11	8 25.11	+17 43.1	1.305	2.266	7.4	19.6
2 21	8 18.51	+19 28.1	1.374	2.289	12.1	19.9
3 2	8 14.73	+20 54.1	1.465	2.311	16.1	20.2

6995 Minoyama 1 27.8 258°.45 2°.4/26.3 18 R

12 23	9 5.48	+22 30.5	1.929	2.741	13.9	17.6
1 2	9 0.61	+23 14.1	1.833	2.725	10.6	17.4
1 12	8 53.12	+24 4.0	1.760	2.709	6.8	17.1
1 22	8 43.61	+24 54.6	1.715	2.692	3.1	16.8
2 1	8 33.08	+25 39.7	1.699	2.675	3.6	16.8
2 11	8 22.82	+26 13.7	1.712	2.658	7.5	17.0
2 21	8 14.05	+26 34.1	1.751	2.640	11.6	17.2
3 2	8 7.72	+26 40.4	1.814	2.622	15.1	17.4

191260 2003 BM_{49} 1 27.8 33°.34 1°.4/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.76	+17 54.3	1.176	2.013	19.3	19.6
1 2	9 0.21	+18 42.5	1.115	2.021	14.7	19.4
1 12	8 53.20	+19 45.2	1.075	2.029	9.3	19.1
1 22	8 43.66	+20 54.6	1.058	2.039	3.4	18.8
2 1	8 33.11	+22 1.2	1.067	2.049	3.3	18.8
2 11	8 23.40	+22 56.2	1.101	2.059	9.0	19.2
2 21	8 16.08	+23 34.8	1.158	2.070	14.2	19.5
3 2	8 12.14	+23 55.9	1.235	2.082	18.5	19.8

349073 2007 AQ_{27} 1 27.8 252°.16 2°.4/26.5 18

12 23	9 6.73	+20 33.0	1.575	2.393	16.2	21.0
1 2	9 2.12	+21 29.0	1.484	2.380	12.4	20.7
1 12	8 54.39	+22 36.1	1.415	2.365	7.9	20.4
1 22	8 44.17	+23 47.4	1.372	2.351	3.4	20.1
2 1	8 32.65	+24 54.2	1.358	2.336	3.8	20.1
2 11	8 21.44	+25 48.7	1.371	2.320	8.7	20.3
2 21	8 12.04	+26 26.4	1.410	2.304	13.4	20.5
3 2	8 5.62	+26 46.6	1.470	2.288	17.5	20.8

151882 2003 UW_{146} 1 27.8 69°.46 2°.9/26.4 17

12 23	9 8.31	+20 25.6	1.183	2.017	19.4	19.9
1 2	9 3.58	+21 35.1	1.132	2.036	14.7	19.6
1 12	8 55.26	+22 55.7	1.101	2.055	9.2	19.4
1 22	8 44.39	+24 17.2	1.095	2.074	4.0	19.1
2 1	8 32.64	+25 28.6	1.115	2.093	4.5	19.2
2 11	8 21.93	+26 21.6	1.160	2.112	9.6	19.6
2 21	8 13.82	+26 53.3	1.229	2.130	14.4	19.9
3 2	8 9.25	+27 4.9	1.318	2.149	18.5	20.2

362145 2009 DV_{97} 1 27.8 241°.78 0°.4/27.6 17

12 23	9 5.78	+17 21.8	2.021	2.820	13.8	22.1
1 2	9 0.66	+17 50.2	1.920	2.805	10.6	21.8
1 12	8 53.07	+18 28.1	1.843	2.788	6.8	21.6
1 22	8 43.58	+19 11.4	1.792	2.772	2.5	21.3
2 1	8 33.13	+19 55.3	1.772	2.754	2.1	21.2
2 11	8 22.89	+20 34.7	1.782	2.736	6.5	21.4
2 21	8 14.00	+21 6.2	1.819	2.717	10.7	21.6
3 2	8 7.38	+21 28.0	1.880	2.698	14.3	21.8

127975 2003 HM_{39} 1 27.8 229°.26 2°.5/26.4 18

12 23	9 8.03	+22 39.0	1.868	2.677	14.4	20.7
1 2	9 2.60	+23 20.7	1.775	2.666	11.0	20.5
1 12	8 54.40	+24 8.4	1.707	2.655	7.1	20.2
1 22	8 44.10	+24 56.1	1.666	2.643	3.2	19.9
2 1	8 32.76	+25 37.4	1.654	2.630	3.6	19.9
2 11	8 21.77	+26 6.9	1.671	2.617	7.7	20.2
2 21	8 12.40	+26 22.4	1.715	2.603	11.8	20.4
3 2	8 5.63	+26 23.8	1.782	2.588	15.4	20.6

312077 2007 TH_{43} 1 27.8 26°.38 1°.8/26.9 18

12 23	9 3.57	+20 3.3	1.269	2.105	18.2	20.9
1 2	8 59.84	+20 37.9	1.208	2.113	13.8	20.6
1 12	8 52.84	+21 22.4	1.168	2.122	8.7	20.4
1 22	8 43.50	+22 9.9	1.152	2.132	3.4	20.1
2 1	8 33.27	+22 52.6	1.162	2.142	3.4	20.1
2 11	8 23.87	+23 24.0	1.197	2.154	8.6	20.4
2 21	8 16.73	+23 41.1	1.256	2.166	13.5	20.8
3 2	8 12.78	+23 43.7	1.336	2.179	17.6	21.0

424731 2008 SK_{243} 1 27.8 77°.55 2°.5/26.2 18

12 23	9 5.07	+23 41.4	2.112	2.921	12.9	21.2
1 2	8 59.67	+24 26.8	2.054	2.945	9.7	21.0
1 12	8 52.10	+25 15.0	2.021	2.968	6.2	20.9
1 22	8 43.09	+26 0.5	2.016	2.992	3.0	20.7
2 1	8 33.60	+26 38.4	2.042	3.016	3.4	20.8
2 11	8 24.72	+27 4.9	2.096	3.039	6.6	21.0
2 21	8 17.36	+27 18.9	2.178	3.062	9.8	21.3
3 2	8 12.17	+27 20.8	2.284	3.085	12.6	21.5

368766 2005 VC_{120} 1 27.8 36°.83 1°.3/28.4 18

12 23	9 3.71	+14 50.7	1.729	2.535	15.5	20.3
1 2	8 59.07	+14 45.0	1.656	2.543	11.9	20.0
1 12	8 51.96	+14 49.4	1.606	2.550	7.8	19.8
1 22	8 43.10	+15 1.5	1.581	2.558	3.3	19.6
2 1	8 33.57	+15 17.8	1.584	2.567	2.1	19.5
2 11	8 24.61	+15 34.6	1.616	2.575	6.5	19.8
2 21	8 17.30	+15 48.9	1.674	2.584	10.6	20.1
3 2	8 12.40	+15 58.6	1.755	2.594	14.2	20.3

12079 Kaibab 1 27.8 249°.00 0°.8/28.2 18

12 23	9 5.48	+14 57.3	1.869	2.667	14.8	18.4
1 2	9 0.57	+15 10.4	1.770	2.653	11.5	18.2
1 12	8 53.08	+15 34.4	1.694	2.638	7.5	17.9
1 22	8 43.60	+16 6.6	1.645	2.623	3.0	17.6
2 1	8 33.13	+16 42.5	1.625	2.607	2.0	17.5
2 11	8 22.92	+17 17.6	1.634	2.591	6.6	17.7
2 21	8 14.16	+17 47.8	1.670	2.575	11.0	18.0
3 2	8 7.79	+18 10.9	1.729	2.558	14.9	18.2

210236 2007 RN_{146} 1 27.8 137°.95 0°.2/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.98	+15 43.4	1.946	2.740	14.4	20.9
1 2	9 1.32	+16 11.4	1.872	2.753	11.0	20.7
1 12	8 53.29	+16 49.3	1.821	2.765	7.0	20.5
1 22	8 43.59	+17 33.1	1.798	2.776	2.7	20.3
2 1	8 33.23	+18 17.9	1.805	2.787	1.9	20.2
2 11	8 23.39	+18 58.8	1.841	2.797	6.2	20.5
2 21	8 15.11	+19 32.6	1.906	2.806	10.1	20.8
3 2	8 9.13	+19 57.4	1.995	2.815	13.5	21.0

87869 2000 SD_{256} 1 27.8 166°.51 1°.8/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.48	+20 35.4	1.999	2.809	13.5	19.8
1 2	8 58.80	+21 22.4	1.918	2.810	10.2	19.6
1 12	8 51.78	+22 16.6	1.862	2.811	6.5	19.4
1 22	8 43.06	+23 12.5	1.834	2.812	2.7	19.1
2 1	8 33.59	+24 4.3	1.834	2.813	2.9	19.2
2 11	8 24.53	+24 47.0	1.864	2.813	6.8	19.4
2 21	8 16.91	+25 17.7	1.921	2.814	10.5	19.6
3 2	8 11.53	+25 35.6	2.002	2.814	13.7	19.8

381685 2009 BS_{183} 1 27.8 95°.72 2°.6/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.87	+26 33.2	2.341	3.145	12.0	20.6
1 2	9 0.90	+26 43.5	2.266	3.153	9.1	20.4
1 12	8 52.85	+26 53.1	2.216	3.161	5.9	20.2
1 22	8 43.39	+26 58.2	2.195	3.169	3.0	20.0
2 1	8 33.43	+26 55.3	2.204	3.177	3.3	20.1
2 11	8 24.03	+26 42.5	2.243	3.185	6.3	20.3
2 21	8 16.05	+26 20.0	2.310	3.193	9.4	20.5
3 2	8 10.17	+25 49.0	2.401	3.200	12.1	20.7

466222 2012 TH_{33} 1 27.8 161°.18 3°.4/30.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.16	+ 3 52.9	3.076	3.814	10.9	22.5
1 2	8 55.37	+ 3 51.0	2.985	3.821	8.8	22.4
1 12	8 49.18	+ 4 0.8	2.919	3.827	6.5	22.2
1 22	8 42.00	+ 4 21.8	2.880	3.832	4.3	22.1
2 1	8 34.42	+ 4 52.5	2.872	3.837	3.4	22.0
2 11	8 27.07	+ 5 30.4	2.895	3.842	4.8	22.1
2 21	8 20.55	+ 6 12.5	2.948	3.846	7.0	22.3
3 2	8 15.36	+ 6 55.8	3.027	3.849	9.3	22.5

239391 2007 TF_{18} 1 27.8 56°.66 5°.5/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.69	+33 21.6	2.145	2.957	12.6	20.4
1 2	9 0.43	+34 15.4	2.081	2.966	9.9	20.2
1 12	8 52.75	+35 5.1	2.041	2.974	7.2	20.0
1 22	8 43.39	+35 44.1	2.028	2.983	5.6	20.0
2 1	8 33.42	+36 6.8	2.044	2.992	6.3	20.0
2 11	8 24.05	+36 10.7	2.088	3.000	8.6	20.2
2 21	8 16.31	+35 56.1	2.157	3.009	11.3	20.4
3 2	8 10.95	+35 25.7	2.249	3.019	13.8	20.5

272509 2005 UY_{185} 1 27.8 241°.45 2°.5/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.47	+23 10.1	2.072	2.882	13.1	21.1
1 2	8 59.61	+23 55.6	1.982	2.874	10.0	20.9
1 12	8 52.35	+24 46.1	1.917	2.865	6.4	20.7
1 22	8 43.31	+25 36.3	1.879	2.856	3.1	20.5
2 1	8 33.43	+26 20.3	1.871	2.846	3.5	20.5
2 11	8 23.88	+26 53.3	1.893	2.837	7.1	20.7
2 21	8 15.73	+27 13.0	1.941	2.827	10.8	20.9
3 2	8 9.84	+27 19.4	2.013	2.817	14.0	21.1

463562 2013 RE_{68} 1 27.8 146°.78 4°.1/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.97	+ 4 45.1	2.259	3.016	13.8	22.1
1 2	8 57.24	+ 4 37.8	2.174	3.022	11.1	21.9
1 12	8 50.59	+ 4 45.6	2.112	3.027	8.1	21.7
1 22	8 42.59	+ 5 7.9	2.076	3.032	5.3	21.5
2 1	8 34.00	+ 5 42.9	2.069	3.037	4.1	21.5
2 11	8 25.76	+ 6 26.9	2.091	3.042	6.0	21.6
2 21	8 18.67	+ 7 15.7	2.142	3.046	9.0	21.8
3 2	8 13.41	+ 8 5.0	2.218	3.050	11.9	22.0

412467 2014 HU_{16} 1 27.8 222°.03 2°.1/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.86	+11 38.0	1.724	2.515	16.1	21.9
1 2	9 1.75	+11 43.9	1.631	2.507	12.7	21.6
1 12	8 53.90	+12 4.1	1.560	2.498	8.5	21.3
1 22	8 43.95	+12 36.6	1.515	2.489	4.1	21.1
2 1	8 32.96	+13 17.3	1.498	2.479	2.7	20.9
2 11	8 22.30	+14 1.2	1.510	2.468	7.0	21.2
2 21	8 13.23	+14 43.2	1.549	2.457	11.5	21.4
3 2	8 6.74	+15 19.7	1.611	2.445	15.5	21.6

466267 2013 LN_{30} 1 27.8 170°.05 4°.5/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.56	+ 3 50.7	2.425	3.170	13.3	21.8
1 2	8 58.32	+ 3 25.9	2.335	3.173	10.8	21.6
1 12	8 51.22	+ 3 14.5	2.269	3.176	8.1	21.5
1 22	8 42.82	+ 3 17.1	2.229	3.179	5.5	21.3
2 1	8 33.84	+ 3 32.6	2.218	3.181	4.5	21.2
2 11	8 25.17	+ 3 58.6	2.238	3.182	6.1	21.3
2 21	8 17.60	+ 4 31.6	2.286	3.183	8.8	21.5
3 2	8 11.78	+ 5 7.8	2.359	3.184	11.5	21.7

21261 1996 FF 1 27.8 9°.84 20°.7/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 59.37	−20 7.1	1.074	1.771	29.1	17.3
1 2	8 57.25	−22 12.9	1.016	1.771	27.1	17.1
1 12	8 51.63	−23 33.1	0.968	1.772	24.9	16.9
1 22	8 43.23	−23 55.2	0.932	1.774	22.8	16.8
2 1	8 33.47	−23 10.8	0.911	1.777	21.3	16.7
2 11	8 24.26	−21 20.8	0.906	1.780	20.7	16.7
2 21	8 17.32	−18 37.0	0.918	1.784	21.4	16.7
3 2	8 13.92	−15 18.2	0.947	1.789	23.1	16.8

145555 2006 MQ_{12} 1 27.8 86°.12 0°.8/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.65	+21 10.6	2.479	3.272	11.7	19.9
1 2	9 0.45	+21 8.5	2.413	3.295	8.8	19.7
1 12	8 52.41	+21 8.9	2.372	3.317	5.5	19.5
1 22	8 43.20	+21 9.1	2.360	3.339	2.1	19.3
2 1	8 33.63	+21 6.5	2.380	3.361	1.8	19.3
2 11	8 24.63	+20 59.4	2.430	3.382	5.2	19.6
2 21	8 16.95	+20 47.3	2.510	3.403	8.3	19.8
3 2	8 11.16	+20 30.1	2.615	3.424	11.0	20.0

101756 1999 FQ_{24} 1 27.8 281°.85 4°.0/26.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.58	+26 3.9	1.511	2.336	16.4	19.3
1 2	9 3.55	+26 40.1	1.433	2.331	12.6	19.1
1 12	8 55.25	+27 18.9	1.376	2.325	8.3	18.8
1 22	8 44.48	+27 53.0	1.345	2.319	4.5	18.6
2 1	8 32.62	+28 14.7	1.341	2.314	5.1	18.6
2 11	8 21.40	+28 19.4	1.364	2.308	9.3	18.8
2 21	8 12.32	+28 6.2	1.411	2.303	13.6	19.0
3 2	8 6.42	+27 37.7	1.480	2.297	17.5	19.3

479310 2013 MA 1 27.8 88°.61 11°.8/ 5.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.44	−12 54.7	1.108	1.835	26.9	20.8
1 2	9 0.87	−12 28.5	1.040	1.846	23.4	20.6
1 12	8 53.77	−11 9.0	0.985	1.857	19.4	20.4
1 22	8 43.98	− 8 50.9	0.948	1.868	15.1	20.2
2 1	8 32.98	− 5 38.0	0.934	1.878	12.1	20.1
2 11	8 22.67	− 1 46.7	0.945	1.889	12.3	20.1
2 21	8 14.72	+ 2 18.7	0.981	1.899	15.5	20.3
3 2	8 10.27	+ 6 14.5	1.042	1.909	19.6	20.6

336885 2011 GT_{55} 1 27.8 156°.74 0°.8/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.04	+13 28.4	2.680	3.462	11.2	21.7
1 2	8 56.30	+13 56.6	2.594	3.467	8.6	21.6
1 12	8 49.89	+14 33.8	2.533	3.473	5.6	21.4
1 22	8 42.31	+15 17.2	2.501	3.478	2.3	21.2
2 1	8 34.23	+16 3.6	2.500	3.483	1.5	21.1
2 11	8 26.44	+16 49.3	2.530	3.487	4.7	21.3
2 21	8 19.64	+17 31.3	2.590	3.491	7.8	21.5
3 2	8 14.41	+18 7.4	2.675	3.494	10.5	21.7

3848 Analucia 1 27.8 248°.60 1°.8/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.92	+11 57.3	1.789	2.584	15.5	17.9
1 2	8 59.41	+12 7.8	1.697	2.576	12.1	17.6
1 12	8 52.34	+12 32.4	1.627	2.567	8.1	17.4
1 22	8 43.36	+13 8.5	1.583	2.558	3.8	17.1
2 1	8 33.43	+13 52.4	1.567	2.549	2.4	17.0
2 11	8 23.83	+14 38.7	1.580	2.539	6.6	17.2
2 21	8 15.70	+15 22.6	1.620	2.530	11.0	17.4
3 2	8 9.98	+16 0.6	1.684	2.520	14.8	17.7

443802 1997 RH_{13} 1 27.8 36°.29 4°.0/29.7 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.55	+ 7 48.2	0.916	1.747	24.0	20.5
1 2	9 0.74	+ 8 2.1	0.886	1.781	18.7	20.3
1 12	8 53.33	+ 8 44.2	0.873	1.817	12.6	20.2
1 22	8 43.63	+ 9 49.4	0.881	1.854	6.6	20.0
2 1	8 33.42	+11 8.0	0.912	1.892	4.2	20.0
2 11	8 24.64	+12 28.7	0.967	1.932	8.7	20.4
2 21	8 18.61	+13 42.2	1.044	1.971	13.8	20.8
3 2	8 16.06	+14 42.6	1.142	2.011	18.0	21.1

426274 2012 SD_{8} 1 27.8 226°.63 2°.1/26.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.10	+24 8.7	2.398	3.203	11.7	21.3
1 2	8 58.92	+24 32.0	2.311	3.199	8.9	21.1
1 12	8 51.70	+24 57.4	2.248	3.195	5.7	20.9
1 22	8 43.03	+25 20.8	2.214	3.190	2.7	20.7
2 1	8 33.73	+25 38.4	2.210	3.186	3.0	20.7
2 11	8 24.80	+25 47.3	2.236	3.181	6.1	20.9
2 21	8 17.12	+25 46.2	2.290	3.176	9.3	21.1
3 2	8 11.39	+25 35.5	2.369	3.171	12.2	21.3

289017 2004 TW_{110} 1 27.8 68°.50 1°.4/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.32	+13 54.2	1.408	2.218	18.1	20.5
1 2	9 2.17	+13 59.9	1.350	2.238	13.9	20.3
1 12	8 54.07	+14 19.4	1.312	2.258	9.1	20.1
1 22	8 43.94	+14 49.1	1.300	2.277	3.8	19.8
2 1	8 33.13	+15 23.7	1.315	2.297	2.4	19.8
2 11	8 23.18	+15 57.5	1.356	2.317	7.3	20.1
2 21	8 15.34	+16 26.5	1.424	2.336	12.0	20.4
3 2	8 10.43	+16 48.0	1.513	2.356	15.9	20.7

428100 2006 QJ_{132} 1 27.8 120°.34 7°.0/ 4.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 59.14	−10 10.9	2.822	3.484	13.3	21.0
1 2	8 54.75	−10 10.5	2.737	3.496	11.6	20.9
1 12	8 48.85	− 9 49.6	2.672	3.508	9.7	20.8
1 22	8 41.92	− 9 7.4	2.632	3.519	8.0	20.7
2 1	8 34.57	− 8 4.8	2.618	3.530	7.0	20.6
2 11	8 27.49	− 6 45.1	2.634	3.541	7.3	20.7
2 21	8 21.33	− 5 13.4	2.678	3.552	8.6	20.8
3 2	8 16.60	− 3 35.4	2.748	3.563	10.4	20.9

104916 2000 JM_{17} 1 27.8 288°.28 6°.3/22.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.96	+33 26.2	2.173	2.987	12.4	20.2
1 2	8 59.55	+35 0.4	2.084	2.969	9.9	20.0
1 12	8 52.53	+36 34.4	2.021	2.951	7.5	19.8
1 22	8 43.48	+37 59.9	1.986	2.933	6.3	19.7
2 1	8 33.36	+39 8.6	1.979	2.914	7.4	19.7
2 11	8 23.43	+39 55.2	1.999	2.896	9.8	19.9
2 21	8 14.93	+40 17.9	2.045	2.878	12.6	20.0
3 2	8 8.86	+40 18.6	2.112	2.860	15.2	20.1

258902 2002 QX_{89} 1 27.8 84°.56 0°.4/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.40	+16 18.0	1.739	2.543	15.5	21.4
1 2	9 1.02	+17 0.9	1.681	2.568	11.7	21.2
1 12	8 53.14	+17 54.4	1.645	2.592	7.4	21.0
1 22	8 43.57	+18 53.1	1.637	2.616	2.7	20.7
2 1	8 33.42	+19 50.7	1.658	2.640	2.1	20.8
2 11	8 23.97	+20 41.5	1.708	2.663	6.6	21.1
2 21	8 16.27	+21 21.9	1.785	2.686	10.6	21.4
3 2	8 11.05	+21 50.6	1.885	2.709	14.0	21.6

194559 2001 XY_{82} 1 27.8 76°.24 2°.0/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.32	+19 9.8	1.418	2.238	17.6	20.2
1 2	9 3.00	+20 14.2	1.366	2.263	13.2	20.0
1 12	8 54.63	+21 28.8	1.337	2.288	8.3	19.8
1 22	8 44.16	+22 45.3	1.334	2.313	3.3	19.6
2 1	8 33.00	+23 54.6	1.358	2.338	3.5	19.6
2 11	8 22.76	+24 49.8	1.410	2.362	8.2	20.0
2 21	8 14.73	+25 27.6	1.488	2.386	12.6	20.3
3 2	8 9.73	+25 48.4	1.587	2.410	16.2	20.6

179127 2001 SR_{272} 1 27.8 233°.88 5°.2/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.89	+30 58.6	2.053	2.864	13.2	19.9
1 2	9 2.40	+31 55.9	1.969	2.855	10.3	19.7
1 12	8 54.23	+32 52.2	1.909	2.846	7.3	19.5
1 22	8 44.07	+33 40.2	1.876	2.837	5.3	19.4
2 1	8 32.99	+34 13.3	1.872	2.827	6.0	19.4
2 11	8 22.34	+34 27.1	1.897	2.817	8.8	19.5
2 21	8 13.32	+34 21.4	1.947	2.807	12.0	19.7
3 2	8 6.86	+33 58.4	2.020	2.796	14.9	19.9

208182 2000 QL_{119} 1 27.8 147°.41 0°.1/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.07	+17 23.1	2.055	2.847	13.9	21.1
1 2	9 2.79	+17 38.9	1.979	2.859	10.6	20.9
1 12	8 54.19	+18 2.1	1.926	2.870	6.7	20.7
1 22	8 43.96	+18 28.8	1.902	2.881	2.5	20.5
2 1	8 33.12	+18 55.1	1.908	2.890	1.8	20.4
2 11	8 22.80	+19 17.3	1.945	2.899	6.0	20.7
2 21	8 14.02	+19 33.1	2.010	2.907	9.8	21.0
3 2	8 7.52	+19 41.5	2.100	2.915	13.1	21.2

431217 2006 SV_{240} 1 27.8 210°.46 1°.5/28.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.01	+11 32.9	2.701	3.478	11.3	22.0
1 2	8 55.57	+11 48.6	2.605	3.474	8.8	21.8
1 12	8 49.48	+12 14.0	2.535	3.470	5.9	21.6
1 22	8 42.20	+12 47.2	2.492	3.466	2.8	21.4
2 1	8 34.39	+13 25.5	2.480	3.461	1.8	21.3
2 11	8 26.80	+14 5.7	2.499	3.456	4.7	21.5
2 21	8 20.16	+14 44.6	2.547	3.451	7.7	21.7
3 2	8 15.03	+15 19.8	2.621	3.446	10.5	21.8

336027 2007 UT_{116} 1 27.8 119°.11 5°.5/23.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.28	+35 58.0	2.730	3.528	10.6	21.1
1 2	9 0.48	+37 10.2	2.672	3.545	8.4	21.0
1 12	8 52.64	+38 17.4	2.641	3.561	6.5	20.9
1 22	8 43.37	+39 13.5	2.638	3.577	5.5	20.8
2 1	8 33.56	+39 53.6	2.665	3.592	6.1	20.9
2 11	8 24.21	+40 15.3	2.720	3.607	7.9	21.0
2 21	8 16.19	+40 18.7	2.802	3.622	9.9	21.2
3 2	8 10.18	+40 6.1	2.906	3.636	11.8	21.3

185393 2006 WA_{58} 1 27.8 136°.13 0°.1/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.93	+17 6.0	1.903	2.704	14.4	20.9
1 2	9 0.64	+17 16.9	1.825	2.710	11.0	20.7
1 12	8 52.95	+17 36.0	1.770	2.715	7.1	20.4
1 22	8 43.54	+17 59.8	1.742	2.721	2.7	20.2
2 1	8 33.44	+18 24.1	1.743	2.726	1.9	20.1
2 11	8 23.84	+18 45.2	1.774	2.730	6.3	20.4
2 21	8 15.80	+19 0.5	1.832	2.735	10.3	20.7
3 2	8 10.10	+19 8.6	1.913	2.739	13.8	20.9

199105 2005 YM_{43} 1 27.8 74°.79 0°.8/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.46	+16 1.8	1.395	2.215	17.8	20.5
1 2	9 1.01	+17 0.3	1.333	2.228	13.5	20.2
1 12	8 53.51	+18 13.8	1.292	2.242	8.5	20.0
1 22	8 43.81	+19 35.1	1.277	2.256	3.1	19.7
2 1	8 33.25	+20 55.2	1.288	2.270	2.7	19.7
2 11	8 23.41	+22 5.6	1.328	2.284	8.0	20.1
2 21	8 15.64	+23 1.0	1.392	2.298	12.7	20.4
3 2	8 10.86	+23 39.6	1.478	2.312	16.7	20.7

251492 2008 ET_{36} 1 27.8 91°.24 2°.2/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.25	+23 20.8	1.851	2.659	14.5	20.0
1 2	9 3.08	+23 46.5	1.791	2.681	11.0	19.8
1 12	8 54.40	+24 15.1	1.755	2.702	7.0	19.6
1 22	8 44.04	+24 41.2	1.746	2.723	3.1	19.4
2 1	8 33.15	+24 59.9	1.767	2.744	3.3	19.5
2 11	8 23.02	+25 7.8	1.816	2.764	7.0	19.7
2 21	8 14.72	+25 4.5	1.893	2.784	10.7	20.0
3 2	8 8.96	+24 50.8	1.993	2.803	13.9	20.2

56106 1999 BG_{24} 1 27.8 34°.64 1°.7/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.48	+15 47.4	1.171	1.999	20.0	17.6
1 2	9 2.88	+15 18.5	1.112	2.009	15.4	17.4
1 12	8 54.82	+15 1.3	1.072	2.020	10.1	17.1
1 22	8 44.31	+14 53.5	1.055	2.033	4.3	16.8
2 1	8 32.95	+14 51.5	1.063	2.046	2.8	16.8
2 11	8 22.59	+14 51.6	1.097	2.059	8.3	17.1
2 21	8 14.70	+14 50.6	1.154	2.074	13.5	17.5
3 2	8 10.21	+14 46.5	1.232	2.089	17.9	17.8

203830 2002 UR_{35} 1 27.8 104°.76 0°.6/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.53	+14 41.0	2.515	3.300	11.8	21.1
1 2	8 57.43	+15 0.9	2.443	3.319	9.0	21.0
1 12	8 50.60	+15 28.8	2.397	3.338	5.8	20.8
1 22	8 42.60	+16 1.7	2.378	3.356	2.3	20.6
2 1	8 34.18	+16 36.6	2.391	3.374	1.5	20.5
2 11	8 26.16	+17 10.1	2.435	3.391	4.8	20.8
2 21	8 19.28	+17 39.6	2.507	3.408	8.0	21.0
3 2	8 14.10	+18 3.4	2.605	3.425	10.7	21.2

1327 Namaqua 1 27.8 149°.01 2°.4/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.99	+23 54.3	2.355	3.159	11.9	17.2
1 2	8 59.61	+24 38.5	2.279	3.167	9.0	17.0
1 12	8 52.15	+25 25.6	2.228	3.174	5.8	16.8
1 22	8 43.24	+26 10.9	2.205	3.181	2.9	16.6
2 1	8 33.74	+26 49.4	2.213	3.187	3.3	16.7
2 11	8 24.64	+27 17.5	2.252	3.193	6.3	16.9
2 21	8 16.86	+27 33.7	2.318	3.198	9.5	17.1
3 2	8 11.07	+27 38.1	2.408	3.203	12.2	17.3

425041 2009 OF_{9} 1 27.8 157°.41 3°.6/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.67	+ 3 57.3	2.534	3.278	12.8	22.0
1 2	8 57.59	+ 4 7.6	2.446	3.287	10.3	21.8
1 12	8 50.76	+ 4 32.8	2.382	3.295	7.5	21.6
1 22	8 42.71	+ 5 11.8	2.346	3.302	4.8	21.5
2 1	8 34.12	+ 6 2.3	2.339	3.308	3.7	21.4
2 11	8 25.83	+ 7 0.4	2.363	3.314	5.4	21.5
2 21	8 18.59	+ 8 1.7	2.417	3.319	8.2	21.7
3 2	8 12.99	+ 9 2.2	2.497	3.323	10.9	21.9

44648 1999 RN_{140} 1 27.8 232°.85 0°.9/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.01	+18 57.6	1.976	2.777	14.0	20.6
1 2	9 1.67	+19 24.4	1.878	2.764	10.7	20.4
1 12	8 53.78	+19 59.0	1.805	2.751	6.9	20.1
1 22	8 43.96	+20 37.4	1.759	2.738	2.6	19.8
2 1	8 33.17	+21 14.2	1.742	2.724	2.3	19.7
2 11	8 22.67	+21 44.9	1.756	2.709	6.7	20.0
2 21	8 13.61	+22 6.4	1.796	2.693	10.9	20.2
3 2	8 6.91	+22 17.7	1.861	2.677	14.5	20.4

465277 2007 TV_{172} 1 27.8 138°.92 0°.8/28.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.12	+14 12.1	2.768	3.548	11.0	22.3
1 2	8 57.02	+14 25.6	2.687	3.559	8.4	22.2
1 12	8 50.32	+14 46.4	2.631	3.570	5.4	22.0
1 22	8 42.52	+15 12.4	2.604	3.580	2.3	21.8
2 1	8 34.28	+15 40.9	2.608	3.590	1.4	21.8
2 11	8 26.37	+16 9.0	2.643	3.600	4.5	22.0
2 21	8 19.47	+16 34.4	2.708	3.609	7.5	22.2
3 2	8 14.11	+16 55.5	2.799	3.617	10.1	22.4

178447 1999 CL_{142} 1 27.8 75°.12 0°.4/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.25	+14 53.7	1.715	2.521	15.6	20.5
1 2	8 59.52	+15 26.5	1.650	2.537	11.9	20.3
1 12	8 52.29	+16 11.4	1.607	2.553	7.6	20.1
1 22	8 43.33	+17 4.0	1.590	2.569	2.9	19.9
2 1	8 33.70	+17 58.3	1.602	2.584	1.9	19.8
2 11	8 24.69	+18 48.7	1.642	2.600	6.5	20.1
2 21	8 17.34	+19 30.9	1.709	2.616	10.7	20.4
3 2	8 12.45	+20 2.9	1.800	2.632	14.2	20.7

334948 2004 CD_{36} 1 27.8 331°.09 1°.8/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 59.82	+19 38.9	1.977	2.793	13.4	20.2
1 2	8 56.19	+20 41.9	1.890	2.785	10.2	20.0
1 12	8 50.27	+21 54.5	1.827	2.777	6.4	19.7
1 22	8 42.63	+23 11.1	1.791	2.770	2.7	19.5
2 1	8 34.15	+24 25.0	1.784	2.762	3.0	19.5
2 11	8 25.97	+25 29.8	1.807	2.756	6.9	19.7
2 21	8 19.11	+26 21.3	1.856	2.750	10.7	19.9
3 2	8 14.41	+26 57.9	1.928	2.744	14.1	20.1

58254 1993 QN_{5} 1 27.8 122°.89 1°.5/28.6 18

12 23	9 10.17	+13 3.1	1.599	2.393	17.1	20.2
1 2	9 4.13	+13 15.0	1.531	2.410	13.2	20.0
1 12	8 55.28	+13 40.4	1.486	2.427	8.6	19.8
1 22	8 44.46	+14 15.9	1.467	2.443	3.7	19.5
2 1	8 32.91	+14 56.4	1.477	2.459	2.3	19.5
2 11	8 22.09	+15 36.3	1.515	2.473	7.0	19.8
2 21	8 13.21	+16 11.6	1.580	2.487	11.4	20.1
3 2	8 7.11	+16 39.5	1.669	2.500	15.2	20.3

333075 2011 UV_{71} 1 27.8 283°.14 3°.7/29.4 18

12 23	9 4.68	+ 9 44.9	1.557	2.353	17.4	20.2
1 2	9 0.46	+ 9 24.7	1.460	2.337	13.9	20.0
1 12	8 53.31	+ 9 19.7	1.384	2.320	9.7	19.7
1 22	8 43.87	+ 9 29.9	1.333	2.303	5.4	19.4
2 1	8 33.23	+ 9 53.1	1.308	2.286	3.9	19.2
2 11	8 22.83	+10 25.1	1.310	2.269	7.8	19.4
2 21	8 14.08	+11 0.8	1.338	2.252	12.5	19.6
3 2	8 8.08	+11 35.5	1.387	2.235	16.8	19.9

15771 1993 FS_{34} 1 27.8 122°.83 0°.8/27.2 18

12 23	9 2.19	+19 36.7	2.727	3.522	10.7	19.0
1 2	8 57.14	+20 4.5	2.652	3.535	8.1	18.8
1 12	8 50.42	+20 36.8	2.602	3.548	5.1	18.7
1 22	8 42.56	+21 10.5	2.581	3.560	1.9	18.4
2 1	8 34.27	+21 42.1	2.592	3.572	1.8	18.5
2 11	8 26.34	+22 8.7	2.633	3.584	4.9	18.7
2 21	8 19.47	+22 28.5	2.703	3.596	7.8	18.9
3 2	8 14.22	+22 40.7	2.799	3.607	10.4	19.1

309338 2007 TT_{5} 1 27.8 143°.30 1°.6/26.9 18

12 23	9 9.05	+21 7.2	2.098	2.896	13.4	22.3
1 2	9 2.80	+21 40.6	2.025	2.910	10.1	22.1
1 12	8 54.23	+22 18.9	1.976	2.922	6.4	21.9
1 22	8 44.03	+22 57.2	1.956	2.934	2.6	21.7
2 1	8 33.22	+23 30.6	1.966	2.945	2.7	21.7
2 11	8 22.95	+23 55.2	2.007	2.956	6.4	22.0
2 21	8 14.22	+24 9.3	2.076	2.965	10.0	22.2
3 2	8 7.79	+24 12.9	2.169	2.974	13.1	22.4

50897 2000 GA_{44} 1 27.8 81°.61 9°.0/23.1 18

12 23	9 14.98	+40 38.8	1.766	2.569	15.3	18.5
1 2	9 8.10	+41 57.0	1.723	2.591	12.6	18.4
1 12	8 57.88	+43 3.2	1.703	2.613	10.2	18.3
1 22	8 45.41	+43 47.4	1.709	2.635	9.0	18.3
2 1	8 32.30	+44 2.5	1.741	2.656	9.7	18.4
2 11	8 20.34	+43 47.3	1.798	2.677	11.7	18.5
2 21	8 10.92	+43 5.6	1.879	2.698	14.1	18.7
3 2	8 4.86	+42 4.0	1.981	2.719	16.4	18.9

469208 2016 GX_{233} 1 27.8 224°.01 5°.0/31.7 17

12 23	8 59.89	+ 0 11.4	2.633	3.363	12.7	22.2
1 2	8 55.54	− 0 0.7	2.533	3.356	10.6	22.0
1 12	8 49.52	+ 0 2.6	2.455	3.348	8.2	21.8
1 22	8 42.28	+ 0 21.8	2.403	3.341	6.0	21.7
2 1	8 34.47	+ 0 56.0	2.379	3.333	5.0	21.6
2 11	8 26.85	+ 1 42.4	2.385	3.325	6.1	21.7
2 21	8 20.14	+ 2 37.2	2.420	3.317	8.4	21.8
3 2	8 14.96	+ 3 35.9	2.481	3.308	10.9	22.0

94667 2001 XG_{13} 1 27.8 339°.19 5°.9/25.2 18

12 23	9 8.79	+29 34.8	1.397	2.229	17.1	19.1
1 2	9 4.05	+30 27.3	1.327	2.226	13.3	18.8
1 12	8 55.75	+31 19.8	1.278	2.223	9.2	18.6
1 22	8 44.78	+32 2.5	1.253	2.220	6.2	18.4
2 1	8 32.68	+32 26.3	1.254	2.218	7.0	18.4
2 11	8 21.36	+32 26.4	1.281	2.216	10.7	18.6
2 21	8 12.45	+32 3.4	1.332	2.215	14.9	18.9
3 2	8 7.03	+31 21.3	1.402	2.213	18.6	19.1

242820 2006 BU_{254} 1 27.8 230°.20 0°.1/27.8 18

12 23	9 8.13	+17 23.0	1.973	2.769	14.2	21.5
1 2	9 2.51	+17 36.3	1.874	2.756	11.0	21.2
1 12	8 54.32	+17 57.9	1.798	2.743	7.1	21.0
1 22	8 44.18	+18 24.2	1.749	2.728	2.7	20.7
2 1	8 33.07	+18 51.0	1.731	2.713	2.0	20.6
2 11	8 22.24	+19 14.0	1.742	2.698	6.5	20.9
2 21	8 12.86	+19 30.6	1.781	2.681	10.8	21.1
3 2	8 5.85	+19 39.3	1.845	2.664	14.5	21.3

205441 2001 NF_{21} 1 27.8 160°.46 3°.1/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.08	+29 46.9	2.719	3.513	10.8	20.7
1 2	9 2.39	+29 58.4	2.638	3.518	8.3	20.5
1 12	8 53.76	+30 7.0	2.584	3.522	5.6	20.3
1 22	8 43.82	+30 8.8	2.558	3.526	3.4	20.2
2 1	8 33.43	+30 0.7	2.564	3.530	3.8	20.2
2 11	8 23.53	+29 41.3	2.601	3.533	6.1	20.4
2 21	8 14.96	+29 11.2	2.667	3.536	8.8	20.6
3 2	8 8.33	+28 31.9	2.758	3.538	11.2	20.7

382227 2012 RA_{12} 1 27.8 185°.26 0°.5/28.1 18

12 23	9 3.22	+16 26.7	2.547	3.335	11.6	21.2
1 2	8 58.07	+16 28.6	2.457	3.335	8.9	21.0
1 12	8 51.10	+16 36.7	2.392	3.335	5.7	20.8
1 22	8 42.86	+16 48.6	2.356	3.334	2.2	20.5
2 1	8 34.09	+17 1.9	2.351	3.333	1.5	20.5
2 11	8 25.63	+17 14.0	2.376	3.332	5.0	20.7
2 21	8 18.28	+17 23.0	2.430	3.331	8.2	20.9
3 2	8 12.65	+17 27.8	2.510	3.329	11.1	21.1

15201 1976 UY 1 27.8 72°.51 6°.4/31.4 18 R

12 23	9 5.15	+ 1 38.2	1.766	2.521	17.2	18.0
1 2	8 59.96	+ 1 0.1	1.704	2.544	14.1	17.8
1 12	8 52.46	+ 0 42.1	1.662	2.567	10.7	17.6
1 22	8 43.38	+ 0 45.0	1.645	2.590	7.7	17.5
2 1	8 33.76	+ 1 7.6	1.655	2.612	6.4	17.5
2 11	8 24.76	+ 1 45.8	1.692	2.635	7.9	17.6
2 21	8 17.37	+ 2 33.9	1.756	2.658	10.8	17.8
3 2	8 12.28	+ 3 26.1	1.844	2.680	13.7	18.1

136078 2003 AH_{30} 1 27.8 88°.28 1°.0/28.4 18

12 23	9 4.20	+15 28.8	2.396	3.183	12.3	19.5
1 2	8 58.77	+15 18.5	2.320	3.197	9.4	19.4
1 12	8 51.50	+15 14.6	2.270	3.210	6.1	19.2
1 22	8 42.99	+15 15.4	2.247	3.224	2.6	19.0
2 1	8 34.03	+15 18.7	2.255	3.237	1.7	18.9
2 11	8 25.53	+15 22.3	2.293	3.250	5.1	19.2
2 21	8 18.25	+15 24.4	2.361	3.263	8.3	19.4
3 2	8 12.81	+15 23.9	2.453	3.276	11.2	19.6

450051 2015 RC_{27} 1 27.8 142°.22 2°.7/29.4 16

12 23	9 7.66	+ 8 55.2	1.778	2.556	16.2	22.2
1 2	9 2.06	+ 9 13.0	1.702	2.569	12.7	22.0
1 12	8 53.93	+ 9 47.5	1.648	2.581	8.7	21.7
1 22	8 43.99	+10 36.0	1.621	2.592	4.5	21.5
2 1	8 33.31	+11 34.1	1.623	2.602	3.0	21.4
2 11	8 23.15	+12 35.8	1.654	2.612	6.6	21.7
2 21	8 14.62	+13 35.3	1.713	2.621	10.6	21.9
3 2	8 8.54	+14 28.5	1.797	2.628	14.2	22.2

202161 2004 VE_{22} 1 27.8 15°.00 2°.4/26.7 18

12 23	9 2.82	+20 19.0	1.221	2.062	18.5	19.8
1 2	8 59.56	+21 8.6	1.157	2.064	14.1	19.5
1 12	8 52.91	+22 9.6	1.114	2.068	8.9	19.2
1 22	8 43.73	+23 14.0	1.094	2.073	3.7	18.9
2 1	8 33.50	+24 12.5	1.099	2.078	4.0	19.0
2 11	8 24.03	+24 57.0	1.129	2.085	9.2	19.3
2 21	8 16.85	+25 23.8	1.183	2.092	14.2	19.6
3 2	8 12.99	+25 32.6	1.257	2.100	18.4	19.9

263778 2008 LP_{2} 1 27.8 77°.06 1°.6/26.9 18

12 23	9 3.89	+19 19.5	1.789	2.602	14.7	20.9
1 2	8 59.32	+20 11.1	1.719	2.612	11.1	20.7
1 12	8 52.24	+21 11.5	1.673	2.623	7.0	20.4
1 22	8 43.37	+22 14.7	1.654	2.633	2.7	20.2
2 1	8 33.78	+23 14.1	1.663	2.643	2.9	20.2
2 11	8 24.72	+24 3.9	1.702	2.653	7.0	20.5
2 21	8 17.29	+24 40.9	1.766	2.663	11.0	20.7
3 2	8 12.29	+25 3.9	1.854	2.674	14.4	21.0

270889 2002 TV_{224} 1 27.8 180°.08 3°.0/26.1 18

12 23	9 10.42	+23 40.9	1.841	2.648	14.6	21.3
1 2	9 4.41	+24 34.7	1.761	2.651	11.2	21.0
1 12	8 55.59	+25 33.7	1.706	2.652	7.2	20.8
1 22	8 44.68	+26 30.8	1.677	2.652	3.6	20.6
2 1	8 32.84	+27 18.9	1.678	2.652	4.1	20.6
2 11	8 21.50	+27 52.6	1.709	2.650	8.0	20.8
2 21	8 11.92	+28 10.0	1.766	2.648	11.9	21.1
3 2	8 5.05	+28 11.9	1.847	2.645	15.3	21.3

57709 2001 UW_{119} 1 27.8 141°.28 1°.3/28.6 18

12 23	9 4.11	+13 5.0	2.062	2.852	13.9	19.1
1 2	8 59.11	+13 17.7	1.981	2.858	10.7	18.9
1 12	8 51.95	+13 41.2	1.924	2.864	7.1	18.7
1 22	8 43.24	+14 13.1	1.894	2.870	3.1	18.5
2 1	8 33.90	+14 49.7	1.893	2.876	1.9	18.4
2 11	8 24.96	+15 26.7	1.923	2.881	5.8	18.7
2 21	8 17.39	+16 0.6	1.980	2.886	9.5	18.9
3 2	8 11.90	+16 28.9	2.062	2.890	12.8	19.1

134368 1995 OA_{16} 1 27.8 50°.28 1°.9/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.84	+12 46.2	2.135	2.924	13.5	19.9
1 2	8 58.02	+12 32.2	2.057	2.932	10.5	19.7
1 12	8 51.17	+12 27.5	2.002	2.940	7.0	19.5
1 22	8 42.93	+12 30.7	1.975	2.948	3.4	19.3
2 1	8 34.14	+12 39.6	1.977	2.957	2.3	19.2
2 11	8 25.79	+12 51.5	2.008	2.966	5.6	19.4
2 21	8 18.75	+13 3.8	2.067	2.974	9.1	19.7
3 2	8 13.67	+13 14.4	2.150	2.983	12.2	19.9

318559 2005 GU_{100} 1 27.8 276°.69 1°.7/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.48	+20 40.1	1.695	2.512	15.3	21.2
1 2	9 0.94	+21 11.1	1.604	2.498	11.7	20.9
1 12	8 53.56	+21 50.0	1.535	2.485	7.5	20.6
1 22	8 43.98	+22 31.7	1.492	2.471	3.0	20.3
2 1	8 33.32	+23 9.7	1.477	2.457	3.1	20.3
2 11	8 23.00	+23 38.6	1.490	2.443	7.7	20.6
2 21	8 14.37	+23 55.4	1.530	2.429	12.2	20.8
3 2	8 8.43	+23 59.4	1.591	2.416	16.1	21.0

156719 2002 TR_{49} 1 27.8 37°.70 7°.8/31.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.41	+ 1 41.5	1.020	1.826	23.9	19.8
1 2	8 59.18	+ 1 11.6	0.974	1.846	19.5	19.6
1 12	8 52.56	+ 1 14.7	0.943	1.867	14.6	19.3
1 22	8 43.56	+ 1 51.5	0.933	1.889	10.0	19.2
2 1	8 33.76	+ 2 57.7	0.945	1.913	7.8	19.1
2 11	8 24.98	+ 4 23.3	0.980	1.937	10.0	19.3
2 21	8 18.64	+ 5 56.4	1.038	1.962	14.1	19.6
3 2	8 15.63	+ 7 26.1	1.116	1.988	18.2	20.0

32326 2000 QO_{62} 1 27.8 291°.42 8°.2/23.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.20	+37 45.9	1.811	2.623	14.6	17.9
1 2	9 4.93	+38 54.5	1.725	2.603	12.0	17.7
1 12	8 56.30	+39 57.2	1.661	2.583	9.5	17.5
1 22	8 45.07	+40 44.1	1.624	2.563	8.2	17.4
2 1	8 32.57	+41 6.3	1.612	2.543	9.1	17.4
2 11	8 20.57	+40 59.4	1.627	2.523	11.7	17.5
2 21	8 10.65	+40 24.5	1.665	2.503	14.8	17.6
3 2	8 3.96	+39 26.6	1.723	2.484	17.7	17.8

413368 2004 CD_{128} 1 27.8 126°.98 5°.9/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.77	+34 36.6	2.180	2.981	12.9	20.8
1 2	9 5.03	+35 36.2	2.121	2.997	10.1	20.7
1 12	8 55.72	+36 30.4	2.086	3.013	7.5	20.5
1 22	8 44.65	+37 11.9	2.079	3.028	5.9	20.5
2 1	8 32.98	+37 35.0	2.101	3.042	6.6	20.5
2 11	8 22.01	+37 37.2	2.152	3.056	8.8	20.7
2 21	8 12.85	+37 19.6	2.228	3.069	11.4	20.9
3 2	8 6.26	+36 45.9	2.328	3.082	13.8	21.1

142615 2002 TW_{138} 1 27.8 37°.76 4°.5/26.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.77	+28 37.0	1.556	2.379	16.1	19.3
1 2	9 4.24	+29 1.7	1.489	2.384	12.4	19.1
1 12	8 55.56	+29 24.9	1.444	2.390	8.3	18.9
1 22	8 44.66	+29 39.4	1.425	2.396	4.9	18.7
2 1	8 32.97	+29 39.3	1.433	2.403	5.4	18.7
2 11	8 22.15	+29 21.6	1.469	2.410	9.0	19.0
2 21	8 13.54	+28 47.7	1.529	2.417	13.0	19.2
3 2	8 8.03	+28 0.7	1.611	2.424	16.5	19.4

239592 2008 UO_{54} 1 27.8 255°.08 3°.6/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.58	+ 8 45.4	1.716	2.501	16.5	20.8
1 2	9 0.92	+ 8 35.6	1.616	2.485	13.2	20.6
1 12	8 53.53	+ 8 41.6	1.537	2.468	9.3	20.3
1 22	8 44.00	+ 9 3.1	1.483	2.452	5.2	20.0
2 1	8 33.34	+ 9 37.5	1.457	2.434	3.8	19.9
2 11	8 22.88	+10 20.3	1.459	2.416	7.3	20.1
2 21	8 13.91	+11 6.3	1.488	2.398	11.7	20.3
3 2	8 7.47	+11 50.5	1.540	2.379	15.8	20.5

176763 2002 RM_{181} 1 27.8 103°.81 2°.4/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.57	+ 7 31.1	2.086	2.852	14.5	20.9
1 2	9 0.02	+ 8 9.6	2.020	2.879	11.4	20.7
1 12	8 52.41	+ 9 4.0	1.977	2.906	7.7	20.5
1 22	8 43.39	+10 11.0	1.962	2.931	4.0	20.4
2 1	8 33.88	+11 25.8	1.977	2.956	2.6	20.3
2 11	8 24.89	+12 42.4	2.024	2.981	5.6	20.6
2 21	8 17.29	+13 55.5	2.099	3.004	9.1	20.8
3 2	8 11.73	+15 1.1	2.200	3.027	12.2	21.0

258209 2001 SF_{348} 1 27.8 205°.61 3°.2/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.81	+ 9 0.9	2.105	2.878	14.2	20.8
1 2	8 59.67	+ 8 44.0	2.012	2.874	11.3	20.6
1 12	8 52.35	+ 8 39.2	1.943	2.871	7.9	20.4
1 22	8 43.44	+ 8 46.0	1.900	2.867	4.5	20.2
2 1	8 33.80	+ 9 2.5	1.886	2.862	3.4	20.1
2 11	8 24.49	+ 9 25.8	1.902	2.857	6.1	20.3
2 21	8 16.45	+ 9 52.3	1.946	2.852	9.7	20.5
3 2	8 10.45	+10 18.8	2.015	2.846	12.9	20.7

251080 2006 ST_{85} 1 27.8 24°.58 0°.8/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.84	+18 45.3	1.381	2.210	17.5	20.2
1 2	8 59.87	+19 4.2	1.316	2.216	13.3	20.0
1 12	8 52.87	+19 32.9	1.272	2.224	8.4	19.7
1 22	8 43.69	+20 6.1	1.253	2.232	3.1	19.4
2 1	8 33.67	+20 37.7	1.259	2.242	2.6	19.4
2 11	8 24.39	+21 2.2	1.293	2.251	7.8	19.8
2 21	8 17.17	+21 16.6	1.350	2.262	12.6	20.1
3 2	8 12.91	+21 19.9	1.430	2.273	16.6	20.3

100687 1997 YF_{4} 1 27.8 55°.22 0°.2/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.36	+16 22.5	1.730	2.540	15.3	19.3
1 2	8 58.97	+16 52.7	1.656	2.547	11.7	19.0
1 12	8 52.07	+17 33.9	1.606	2.553	7.4	18.8
1 22	8 43.36	+18 21.6	1.581	2.560	2.8	18.5
2 1	8 33.90	+19 10.2	1.584	2.567	2.0	18.5
2 11	8 24.95	+19 54.2	1.617	2.574	6.7	18.8
2 21	8 17.63	+20 29.6	1.675	2.581	10.9	19.1
3 2	8 12.75	+20 54.7	1.757	2.589	14.5	19.3

160436 2005 SX_{128} 1 27.8 146°.69 1°.7/29.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.76	+10 41.3	2.069	2.853	14.0	20.6
1 2	8 58.13	+11 11.0	1.986	2.859	10.9	20.4
1 12	8 51.37	+11 54.7	1.927	2.864	7.3	20.1
1 22	8 43.07	+12 49.4	1.894	2.868	3.4	19.9
2 1	8 34.10	+13 50.8	1.891	2.873	2.1	19.8
2 11	8 25.49	+14 53.4	1.919	2.877	5.7	20.1
2 21	8 18.18	+15 52.6	1.974	2.881	9.5	20.3
3 2	8 12.88	+16 44.7	2.054	2.884	12.8	20.5

165733 2001 QE_{127} 1 27.8 85°.73 2°.4/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.80	+10 45.9	2.282	3.060	13.1	19.7
1 2	8 57.87	+10 31.3	2.202	3.069	10.2	19.5
1 12	8 51.05	+10 26.8	2.146	3.078	7.0	19.3
1 22	8 42.90	+10 31.3	2.117	3.087	3.7	19.1
2 1	8 34.25	+10 43.0	2.117	3.095	2.7	19.1
2 11	8 25.99	+10 59.2	2.148	3.104	5.4	19.3
2 21	8 18.93	+11 17.0	2.206	3.112	8.7	19.5
3 2	8 13.72	+11 34.1	2.290	3.121	11.6	19.7

343533 2010 EC_{139} 1 27.8 209°.79 3°.4/25.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.81	+29 2.4	2.790	3.593	10.3	21.2
1 2	8 58.60	+29 45.5	2.703	3.588	7.9	21.0
1 12	8 51.51	+30 28.1	2.643	3.582	5.4	20.8
1 22	8 43.10	+31 5.7	2.611	3.577	3.6	20.7
2 1	8 34.10	+31 34.2	2.610	3.571	4.1	20.7
2 11	8 25.39	+31 50.6	2.639	3.565	6.4	20.9
2 21	8 17.79	+31 54.1	2.696	3.558	9.0	21.0
3 2	8 11.94	+31 45.4	2.777	3.551	11.3	21.2

192454 1998 BQ_{5} 1 27.8 44°.34 0°.1/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.88	+15 38.5	1.981	2.786	13.8	20.2
1 2	8 56.75	+16 13.4	1.911	2.798	10.5	20.0
1 12	8 50.49	+16 58.4	1.864	2.810	6.7	19.8
1 22	8 42.73	+17 49.7	1.844	2.823	2.5	19.6
2 1	8 34.38	+18 42.1	1.853	2.836	1.8	19.5
2 11	8 26.50	+19 30.7	1.891	2.849	5.9	19.8
2 21	8 19.99	+20 11.8	1.957	2.862	9.6	20.1
3 2	8 15.55	+20 43.5	2.046	2.876	12.8	20.3

165514 2001 CA_{11} 1 27.8 324°.88 2°.1/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.13	+20 10.9	1.349	2.184	17.4	19.5
1 2	8 59.05	+20 51.6	1.265	2.169	13.4	19.2
1 12	8 52.70	+21 43.8	1.201	2.154	8.6	18.9
1 22	8 43.78	+22 41.2	1.161	2.141	3.5	18.5
2 1	8 33.55	+23 35.4	1.147	2.128	3.7	18.5
2 11	8 23.73	+24 18.6	1.159	2.115	9.0	18.8
2 21	8 15.91	+24 46.2	1.195	2.104	14.1	19.0
3 2	8 11.27	+24 57.0	1.251	2.093	18.6	19.2

171663 2000 JS_{41} 1 27.8 205°.67 4°.1/24.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.53	+30 37.6	2.620	3.424	10.8	20.9
1 2	8 59.30	+31 31.3	2.537	3.421	8.4	20.8
1 12	8 52.04	+32 23.9	2.480	3.417	5.9	20.6
1 22	8 43.32	+33 10.0	2.452	3.413	4.2	20.5
2 1	8 33.95	+33 44.8	2.454	3.408	4.9	20.5
2 11	8 24.90	+34 5.1	2.485	3.403	7.1	20.7
2 21	8 17.06	+34 10.1	2.543	3.398	9.7	20.8
3 2	8 11.14	+34 0.9	2.625	3.392	12.1	21.0

493225 2014 UV_{63} 1 27.8 88°.17 0°.6/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.56	+18 11.4	1.862	2.666	14.6	21.5
1 2	9 1.08	+18 38.3	1.799	2.687	11.1	21.3
1 12	8 53.22	+19 12.9	1.760	2.707	7.0	21.1
1 22	8 43.74	+19 50.6	1.748	2.727	2.6	20.9
2 1	8 33.70	+20 26.4	1.766	2.747	2.1	20.9
2 11	8 24.32	+20 56.2	1.812	2.767	6.4	21.2
2 21	8 16.58	+21 17.3	1.886	2.786	10.2	21.5
3 2	8 11.22	+21 29.0	1.984	2.805	13.5	21.7

166055 2002 CL_{49} 1 27.8 231°.49 3°.3/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.97	+ 9 54.7	1.708	2.496	16.4	20.3
1 2	9 1.08	+ 9 37.7	1.618	2.490	13.0	20.1
1 12	8 53.53	+ 9 34.9	1.551	2.484	9.0	19.8
1 22	8 43.97	+ 9 45.4	1.508	2.478	4.9	19.6
2 1	8 33.46	+10 7.0	1.494	2.472	3.6	19.5
2 11	8 23.33	+10 35.6	1.508	2.465	7.1	19.7
2 21	8 14.79	+11 6.8	1.548	2.458	11.3	19.9
3 2	8 8.78	+11 36.8	1.612	2.451	15.2	20.1

205552 2001 SR_{221} 1 27.8 87°.04 0°.9/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.83	+19 34.0	2.371	3.172	12.0	20.9
1 2	8 57.86	+20 3.7	2.303	3.189	9.0	20.7
1 12	8 51.01	+20 38.7	2.259	3.206	5.7	20.6
1 22	8 42.89	+21 15.2	2.244	3.223	2.1	20.3
2 1	8 34.30	+21 49.3	2.259	3.239	2.0	20.4
2 11	8 26.16	+22 17.5	2.304	3.256	5.4	20.6
2 21	8 19.26	+22 37.9	2.377	3.272	8.6	20.8
3 2	8 14.20	+22 49.7	2.476	3.288	11.4	21.1

494997 2010 HY_{113} 1 27.8 275°.17 3°.6/29.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.84	+ 8 49.4	1.761	2.541	16.3	22.4
1 2	9 2.08	+ 8 39.6	1.642	2.509	13.1	22.1
1 12	8 54.47	+ 8 45.3	1.545	2.476	9.3	21.8
1 22	8 44.47	+ 9 6.6	1.473	2.441	5.3	21.5
2 1	8 33.03	+ 9 41.3	1.429	2.406	3.8	21.3
2 11	8 21.51	+10 25.3	1.414	2.370	7.6	21.5
2 21	8 11.29	+11 13.3	1.425	2.334	12.3	21.6
3 2	8 3.60	+12 0.2	1.460	2.296	16.7	21.8

447059 2004 RY_{245} 1 27.8 59°.25 2°.6/26.7 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.99	+21 51.3	1.295	2.125	18.4	21.1
1 2	9 3.82	+22 30.6	1.245	2.146	13.9	20.9
1 12	8 55.34	+23 16.7	1.216	2.168	8.8	20.7
1 22	8 44.60	+24 1.7	1.212	2.190	3.7	20.5
2 1	8 33.16	+24 37.9	1.234	2.213	3.9	20.5
2 11	8 22.78	+24 59.9	1.282	2.235	8.7	20.9
2 21	8 14.85	+25 6.4	1.355	2.258	13.3	21.2
3 2	8 10.18	+24 58.8	1.449	2.280	17.1	21.5

504660 2009 AT_{32} 1 27.8 24°.02 0°.3/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.79	+16 3.9	1.277	2.107	18.5	20.8
1 2	8 59.34	+16 41.3	1.212	2.112	14.2	20.5
1 12	8 52.70	+17 34.0	1.166	2.118	9.0	20.3
1 22	8 43.70	+18 36.1	1.145	2.125	3.4	20.0
2 1	8 33.72	+19 39.4	1.149	2.132	2.6	19.9
2 11	8 24.44	+20 35.9	1.180	2.140	8.2	20.3
2 21	8 17.30	+21 20.1	1.234	2.149	13.3	20.6
3 2	8 13.27	+21 49.6	1.309	2.158	17.5	20.9

134476 1998 VE_{49} 1 27.8 47°.47 0°.2/27.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.26	+17 22.7	1.278	2.098	19.1	19.7
1 2	9 4.39	+17 24.9	1.239	2.134	14.4	19.5
1 12	8 55.44	+17 37.4	1.221	2.170	9.1	19.3
1 22	8 44.54	+17 55.3	1.227	2.206	3.4	19.1
2 1	8 33.26	+18 13.1	1.260	2.243	2.3	19.1
2 11	8 23.22	+18 26.6	1.320	2.280	7.6	19.5
2 21	8 15.63	+18 33.4	1.405	2.317	12.2	19.9
3 2	8 11.15	+18 32.9	1.512	2.353	15.9	20.2

170839 2004 FP_{34} 1 27.8 294°.03 4°.5/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.67	+ 3 26.7	2.318	3.073	13.6	20.1
1 2	8 55.62	+ 3 14.3	2.224	3.067	11.1	20.0
1 12	8 49.72	+ 3 17.2	2.151	3.062	8.3	19.8
1 22	8 42.47	+ 3 35.4	2.105	3.057	5.6	19.6
2 1	8 34.59	+ 4 7.8	2.087	3.052	4.5	19.5
2 11	8 26.97	+ 4 50.9	2.098	3.047	6.1	19.6
2 21	8 20.39	+ 5 40.8	2.137	3.042	9.0	19.8
3 2	8 15.53	+ 6 32.8	2.201	3.037	11.8	19.9

185131 2006 SM_{101} 1 27.8 164°.16 0°.2/28.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.45	+16 14.3	2.798	3.585	10.7	21.6
1 2	8 56.62	+16 33.4	2.711	3.589	8.1	21.4
1 12	8 50.18	+16 59.0	2.649	3.592	5.2	21.2
1 22	8 42.60	+17 28.5	2.617	3.595	2.0	21.0
2 1	8 34.55	+17 59.0	2.615	3.598	1.3	21.0
2 11	8 26.78	+18 27.6	2.645	3.600	4.6	21.2
2 21	8 19.97	+18 52.1	2.704	3.603	7.6	21.4
3 2	8 14.70	+19 10.9	2.789	3.604	10.2	21.6

244400 2002 PM_{118} 1 27.8 62°.29 1°.0/28.3 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.68	+16 21.7	1.509	2.311	17.5	20.1
1 2	9 5.82	+16 4.0	1.463	2.347	13.3	20.0
1 12	8 56.18	+15 55.5	1.438	2.382	8.5	19.8
1 22	8 44.81	+15 53.1	1.440	2.418	3.4	19.5
2 1	8 33.09	+15 53.2	1.470	2.453	2.2	19.5
2 11	8 22.47	+15 53.0	1.529	2.487	6.9	19.9
2 21	8 14.06	+15 50.5	1.614	2.522	11.2	20.2
3 2	8 8.53	+15 44.7	1.723	2.556	14.7	20.5

193990 2001 RQ_{147} 1 27.8 139°.98 6°.9/24.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.52	+34 18.3	1.797	2.604	14.9	21.1
1 2	9 7.73	+35 32.4	1.736	2.617	11.8	20.9
1 12	8 57.77	+36 41.3	1.700	2.628	8.8	20.7
1 22	8 45.55	+37 35.6	1.689	2.639	7.0	20.7
2 1	8 32.49	+38 7.1	1.708	2.650	7.8	20.7
2 11	8 20.26	+38 12.7	1.753	2.659	10.4	20.9
2 21	8 10.27	+37 53.9	1.824	2.668	13.4	21.1
3 2	8 3.41	+37 15.6	1.915	2.676	16.1	21.3

272827 2006 AS_{96} 1 27.8 349°.37 5°.9/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.92	+ 3 10.6	1.691	2.466	17.1	20.2
1 2	8 56.45	+ 2 44.3	1.606	2.461	14.0	20.0
1 12	8 50.56	+ 2 37.9	1.542	2.457	10.6	19.8
1 22	8 42.87	+ 2 52.5	1.501	2.454	7.3	19.6
2 1	8 34.34	+ 3 26.8	1.486	2.451	5.9	19.5
2 11	8 26.17	+ 4 16.6	1.497	2.449	7.8	19.6
2 21	8 19.45	+ 5 15.9	1.535	2.447	11.3	19.8
3 2	8 15.04	+ 6 18.1	1.595	2.446	14.8	20.0

414801 2010 SL_{18} 1 27.8 150°.63 3°.4/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.55	+ 6 6.1	2.253	3.010	13.8	23.0
1 2	8 59.26	+ 6 10.5	2.169	3.020	11.0	22.9
1 12	8 51.99	+ 6 29.6	2.109	3.030	7.9	22.7
1 22	8 43.32	+ 7 2.2	2.076	3.038	4.7	22.5
2 1	8 34.06	+ 7 45.7	2.073	3.046	3.5	22.4
2 11	8 25.17	+ 8 36.1	2.100	3.054	5.8	22.6
2 21	8 17.49	+ 9 28.8	2.156	3.060	8.9	22.8
3 2	8 11.71	+10 19.9	2.238	3.066	11.9	23.0

417443 2006 KX_{119} 1 27.9 128°.43 0°.7/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.89	+13 14.1	2.251	3.042	12.8	20.8
1 2	8 56.61	+13 51.4	2.166	3.045	9.9	20.6
1 12	8 50.38	+14 40.2	2.106	3.048	6.4	20.4
1 22	8 42.74	+15 37.2	2.073	3.050	2.6	20.2
2 1	8 34.47	+16 37.8	2.070	3.053	1.6	20.1
2 11	8 26.52	+17 37.2	2.097	3.055	5.4	20.4
2 21	8 19.73	+18 31.3	2.153	3.058	8.9	20.6
3 2	8 14.77	+19 17.2	2.234	3.060	12.0	20.8

60748 2000 GC_{96} 1 27.9 269°.79 4°.6/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.21	+ 5 59.3	1.853	2.626	15.8	18.4
1 2	8 58.82	+ 5 36.0	1.759	2.617	12.8	18.2
1 12	8 52.03	+ 5 28.8	1.686	2.608	9.4	17.9
1 22	8 43.44	+ 5 38.0	1.639	2.599	6.0	17.7
2 1	8 33.96	+ 6 2.2	1.619	2.590	4.7	17.6
2 11	8 24.76	+ 6 37.9	1.627	2.580	7.1	17.7
2 21	8 16.94	+ 7 20.4	1.662	2.571	10.8	17.9
3 2	8 11.36	+ 8 4.8	1.721	2.562	14.3	18.1

166219 2002 EU_{150} 1 27.9 214°.80 2°.2/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.61	+10 23.3	1.857	2.644	15.3	20.3
1 2	8 59.90	+10 40.0	1.766	2.639	12.0	20.1
1 12	8 52.73	+11 11.9	1.697	2.633	8.2	19.8
1 22	8 43.70	+11 56.9	1.654	2.627	4.0	19.6
2 1	8 33.78	+12 50.7	1.640	2.621	2.6	19.4
2 11	8 24.17	+13 47.9	1.655	2.614	6.4	19.7
2 21	8 15.98	+14 43.2	1.698	2.607	10.6	19.9
3 2	8 10.11	+15 32.4	1.765	2.599	14.3	20.1

63761 2001 QR_{282} 1 27.9 76°.69 1°.0/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.46	+12 34.0	1.421	2.231	18.1	18.9
1 2	9 0.97	+13 15.4	1.358	2.246	13.9	18.7
1 12	8 53.53	+14 14.5	1.316	2.261	9.0	18.5
1 22	8 44.00	+15 26.0	1.299	2.276	3.7	18.2
2 1	8 33.64	+16 42.1	1.309	2.292	2.2	18.1
2 11	8 23.99	+17 54.6	1.347	2.307	7.4	18.5
2 21	8 16.33	+18 57.3	1.410	2.322	12.1	18.8
3 2	8 11.54	+19 46.7	1.496	2.337	16.1	19.1

336972 2011 JQ_{26} 1 27.9 165°.57 4°.2/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.25	+ 3 4.4	2.415	3.164	13.3	21.9
1 2	8 55.95	+ 3 5.3	2.325	3.165	10.8	21.7
1 12	8 49.89	+ 3 21.9	2.257	3.167	8.0	21.5
1 22	8 42.55	+ 3 53.8	2.216	3.168	5.4	21.4
2 1	8 34.65	+ 4 39.0	2.204	3.170	4.2	21.3
2 11	8 27.01	+ 5 33.8	2.221	3.171	5.8	21.4
2 21	8 20.41	+ 6 33.7	2.267	3.172	8.5	21.6
3 2	8 15.47	+ 7 34.3	2.339	3.172	11.3	21.7

256943 2008 EG_{46} 1 27.9 42°.58 12°.3/ 5.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.81	−14 24.5	1.792	2.462	19.7	20.3
1 2	8 57.03	−15 26.3	1.716	2.467	17.8	20.2
1 12	8 50.89	−15 58.1	1.656	2.471	15.6	20.0
1 22	8 43.00	−15 54.8	1.616	2.477	13.7	19.9
2 1	8 34.33	−15 14.1	1.597	2.482	12.5	19.8
2 11	8 26.04	−13 59.1	1.602	2.488	12.5	19.8
2 21	8 19.18	−12 16.9	1.630	2.493	13.7	19.9
3 2	8 14.59	−10 17.7	1.681	2.499	15.7	20.1

436956 2012 TS_{153} 1 27.9 38°.93 4°.2/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.12	+29 29.3	2.202	3.015	12.3	21.2
1 2	8 59.24	+30 14.4	2.130	3.020	9.5	21.1
1 12	8 52.11	+30 58.5	2.083	3.025	6.5	20.9
1 22	8 43.41	+31 35.8	2.064	3.030	4.3	20.8
2 1	8 34.08	+32 1.3	2.074	3.035	4.9	20.8
2 11	8 25.25	+32 11.7	2.112	3.040	7.6	21.0
2 21	8 17.88	+32 6.8	2.176	3.046	10.5	21.2
3 2	8 12.68	+31 47.9	2.264	3.051	13.2	21.4

305681 2009 BR_{107} 1 27.9 27°.02 0°.8/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.96	+17 13.8	1.218	2.053	18.9	20.7
1 2	8 59.56	+17 50.1	1.157	2.061	14.4	20.4
1 12	8 52.88	+18 40.5	1.117	2.070	9.1	20.1
1 22	8 43.81	+19 38.5	1.101	2.081	3.4	19.8
2 1	8 33.81	+20 35.7	1.109	2.092	2.8	19.8
2 11	8 24.60	+21 24.2	1.144	2.104	8.4	20.2
2 21	8 17.65	+21 59.4	1.202	2.116	13.5	20.5
3 2	8 13.91	+22 19.6	1.280	2.130	17.8	20.8

468223 2015 BN_{126} 1 27.9 171°.79 0°.9/27.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.77	+19 55.0	2.339	3.139	12.1	22.1
1 2	8 58.74	+20 14.6	2.254	3.140	9.2	21.9
1 12	8 51.70	+20 39.3	2.194	3.141	5.8	21.7
1 22	8 43.25	+21 5.5	2.163	3.142	2.2	21.4
2 1	8 34.20	+21 29.7	2.162	3.143	2.0	21.4
2 11	8 25.52	+21 48.5	2.190	3.143	5.6	21.6
2 21	8 18.07	+22 0.1	2.247	3.143	9.0	21.9
3 2	8 12.53	+22 3.7	2.329	3.144	12.0	22.0

114607 2003 DZ_{4} 1 27.9 143°.08 1°.2/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.01	+14 56.1	2.219	3.001	13.3	19.8
1 2	9 1.88	+14 42.6	2.138	3.011	10.2	19.6
1 12	8 53.65	+14 36.2	2.081	3.020	6.7	19.4
1 22	8 43.96	+14 35.2	2.053	3.029	2.9	19.2
2 1	8 33.72	+14 37.3	2.055	3.037	1.9	19.1
2 11	8 23.95	+14 40.1	2.088	3.044	5.5	19.4
2 21	8 15.56	+14 41.8	2.150	3.051	9.1	19.6
3 2	8 9.23	+14 41.1	2.237	3.058	12.2	19.8

316745 1999 CM_{134} 1 27.9 119°.26 2°.2/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.74	+ 7 49.4	2.152	2.921	14.0	20.8
1 2	8 58.73	+ 8 33.4	2.076	2.938	11.0	20.6
1 12	8 51.70	+ 9 33.3	2.024	2.954	7.5	20.4
1 22	8 43.25	+10 46.0	1.999	2.970	3.8	20.2
2 1	8 34.21	+12 6.6	2.005	2.985	2.4	20.2
2 11	8 25.58	+13 29.0	2.042	2.999	5.5	20.4
2 21	8 18.22	+14 47.7	2.107	3.014	9.0	20.6
3 2	8 12.81	+15 58.5	2.199	3.027	12.1	20.8

167546 2004 AG_{13} 1 27.9 332°.33 0°.9/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.41	+18 46.8	2.023	2.833	13.4	20.2
1 2	8 57.32	+19 17.4	1.937	2.828	10.2	19.9
1 12	8 51.00	+19 55.9	1.875	2.824	6.5	19.7
1 22	8 43.04	+20 38.2	1.840	2.819	2.4	19.4
2 1	8 34.34	+21 19.4	1.833	2.815	2.2	19.4
2 11	8 25.98	+21 55.0	1.856	2.811	6.3	19.7
2 21	8 18.97	+22 21.9	1.906	2.807	10.1	19.9
3 2	8 14.06	+22 38.7	1.979	2.804	13.4	20.1

465194 2007 HS_{41} 1 27.9 226°.95 3°.1/29.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.41	+ 7 15.0	2.472	3.233	12.7	22.1
1 2	8 57.64	+ 7 10.8	2.370	3.223	10.1	21.9
1 12	8 51.01	+ 7 18.9	2.291	3.213	7.2	21.7
1 22	8 43.01	+ 7 38.6	2.239	3.202	4.3	21.5
2 1	8 34.35	+ 8 8.3	2.217	3.191	3.2	21.4
2 11	8 25.89	+ 8 44.8	2.226	3.179	5.5	21.5
2 21	8 18.43	+ 9 24.6	2.263	3.167	8.6	21.7
3 2	8 12.66	+10 4.3	2.326	3.155	11.5	21.8

209047 2003 QV_{1} 1 27.9 130°.06 0°.9/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.06	+14 26.4	1.720	2.520	15.8	21.3
1 2	9 1.06	+14 43.0	1.643	2.527	12.2	21.1
1 12	8 53.46	+15 11.7	1.589	2.533	7.9	20.9
1 22	8 43.97	+15 48.9	1.561	2.539	3.2	20.6
2 1	8 33.70	+16 29.7	1.562	2.545	2.0	20.5
2 11	8 23.96	+17 9.0	1.592	2.550	6.6	20.8
2 21	8 15.88	+17 42.8	1.648	2.556	11.0	21.1
3 2	8 10.32	+18 8.6	1.727	2.561	14.7	21.4

412962 2014 QO_{300} 1 27.9 110°.20 0°.9/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.98	+18 28.9	1.822	2.629	14.8	21.5
1 2	9 0.86	+19 2.8	1.750	2.640	11.2	21.3
1 12	8 53.25	+19 45.2	1.702	2.650	7.1	21.1
1 22	8 43.87	+20 31.0	1.681	2.661	2.6	20.8
2 1	8 33.79	+21 14.8	1.689	2.671	2.3	20.8
2 11	8 24.26	+21 51.5	1.726	2.681	6.7	21.1
2 21	8 16.37	+22 18.2	1.790	2.690	10.7	21.4
3 2	8 10.91	+22 33.9	1.878	2.700	14.1	21.6

163411 2002 RC_{23} 1 27.9 84°.83 2°.7/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.11	+25 40.5	2.165	2.973	12.7	19.8
1 2	9 0.63	+26 3.5	2.093	2.982	9.6	19.6
1 12	8 52.93	+26 27.2	2.045	2.991	6.2	19.4
1 22	8 43.71	+26 47.2	2.026	3.000	3.2	19.2
2 1	8 33.93	+26 59.1	2.036	3.009	3.5	19.3
2 11	8 24.69	+27 0.3	2.075	3.018	6.7	19.5
2 21	8 16.95	+26 50.3	2.142	3.027	9.9	19.7
3 2	8 11.39	+26 30.1	2.233	3.036	12.8	19.9

86954 2000 HF_{96} 1 27.9 182°.56 0°.2/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.21	+14 34.7	1.782	2.580	15.4	20.4
1 2	9 1.23	+15 17.6	1.698	2.581	11.8	20.1
1 12	8 53.63	+16 14.1	1.637	2.582	7.6	19.9
1 22	8 44.08	+17 19.6	1.603	2.581	2.9	19.6
2 1	8 33.61	+18 27.9	1.598	2.581	2.0	19.5
2 11	8 23.53	+19 32.2	1.622	2.579	6.8	19.8
2 21	8 15.03	+20 27.4	1.674	2.577	11.1	20.1
3 2	8 9.02	+21 10.8	1.749	2.575	14.9	20.3

506194 2016 GG_{127} 1 27.9 182°.81 4°.1/31.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.96	+ 0 9.2	3.418	4.131	10.3	22.6
1 2	8 55.22	+ 0 1.2	3.318	4.131	8.6	22.5
1 12	8 49.20	+ 0 5.2	3.243	4.131	6.6	22.3
1 22	8 42.26	+ 0 21.3	3.196	4.131	4.8	22.2
2 1	8 34.93	+ 0 48.6	3.179	4.130	4.1	22.2
2 11	8 27.76	+ 1 25.1	3.192	4.128	4.9	22.2
2 21	8 21.31	+ 2 8.0	3.235	4.125	6.7	22.3
3 2	8 16.04	+ 2 54.3	3.305	4.122	8.7	22.5

246780 2009 DK_{43} 1 27.9 138°.82 0°.6/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.76	+17 15.7	2.699	3.492	10.9	20.5
1 2	8 56.23	+18 7.8	2.617	3.499	8.2	20.3
1 12	8 50.02	+19 7.4	2.561	3.506	5.2	20.1
1 22	8 42.61	+20 10.6	2.534	3.513	1.9	19.9
2 1	8 34.68	+21 13.0	2.538	3.519	1.7	19.9
2 11	8 27.02	+22 10.5	2.573	3.525	5.0	20.1
2 21	8 20.35	+23 0.1	2.638	3.531	8.0	20.3
3 2	8 15.25	+23 39.9	2.729	3.537	10.6	20.5

408301 2013 GK_{24} 1 27.9 19°.26 4°.2/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.63	+ 8 22.3	1.423	2.223	18.5	20.9
1 2	8 59.67	+ 8 4.0	1.348	2.225	14.8	20.6
1 12	8 52.81	+ 8 4.4	1.294	2.228	10.4	20.4
1 22	8 43.81	+ 8 22.7	1.262	2.231	6.0	20.1
2 1	8 33.88	+ 8 56.2	1.257	2.234	4.3	20.0
2 11	8 24.49	+ 9 39.2	1.278	2.238	7.8	20.2
2 21	8 16.96	+10 25.8	1.324	2.242	12.3	20.5
3 2	8 12.24	+11 10.3	1.392	2.246	16.3	20.8

241375 2008 RC_{98} 1 27.9 67°.83 4°.7/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.71	+26 34.1	1.377	2.206	17.5	20.3
1 2	9 4.51	+27 30.0	1.322	2.221	13.3	20.1
1 12	8 55.93	+28 27.9	1.287	2.236	8.8	19.9
1 22	8 44.96	+29 18.8	1.278	2.251	5.1	19.7
2 1	8 33.16	+29 53.9	1.296	2.266	5.8	19.8
2 11	8 22.33	+30 8.5	1.340	2.281	9.7	20.1
2 21	8 13.91	+30 2.6	1.407	2.296	13.9	20.3
3 2	8 8.83	+29 39.3	1.496	2.311	17.5	20.6

345060 2005 GC_{147} 1 27.9 214°.80 1°.7/26.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.39	+22 47.9	2.578	3.379	11.1	21.6
1 2	8 58.38	+23 15.5	2.488	3.375	8.4	21.4
1 12	8 51.47	+23 46.3	2.423	3.370	5.4	21.2
1 22	8 43.21	+24 16.4	2.387	3.364	2.4	21.0
2 1	8 34.35	+24 42.2	2.382	3.359	2.6	21.0
2 11	8 25.78	+25 0.5	2.407	3.353	5.6	21.2
2 21	8 18.33	+25 9.8	2.460	3.347	8.7	21.4
3 2	8 12.66	+25 9.8	2.538	3.341	11.5	21.5

247691 2003 BU_{27} 1 27.9 300°.31 2°.7/30.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.67	+ 6 45.8	2.294	3.066	13.2	19.8
1 2	8 55.07	+ 7 16.3	2.186	3.047	10.6	19.6
1 12	8 49.54	+ 8 3.4	2.101	3.029	7.4	19.4
1 22	8 42.54	+ 9 5.5	2.043	3.011	4.2	19.1
2 1	8 34.79	+10 19.3	2.015	2.992	2.8	19.0
2 11	8 27.16	+11 39.5	2.016	2.974	5.5	19.1
2 21	8 20.52	+13 0.6	2.046	2.956	9.0	19.3
3 2	8 15.60	+14 17.5	2.102	2.939	12.3	19.5

264046 2009 RS_{29} 1 27.9 196°.46 1°.0/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.37	+14 14.9	2.110	2.901	13.6	21.3
1 2	8 59.41	+14 22.8	2.022	2.900	10.5	21.1
1 12	8 52.27	+14 40.4	1.957	2.898	6.9	20.9
1 22	8 43.55	+15 5.1	1.919	2.896	2.9	20.6
2 1	8 34.12	+15 33.6	1.911	2.894	1.8	20.5
2 11	8 25.05	+16 2.2	1.933	2.891	5.7	20.8
2 21	8 17.28	+16 27.7	1.983	2.888	9.5	21.0
3 2	8 11.56	+16 47.9	2.058	2.885	12.8	21.2

88766 2001 SA_{68} 1 27.9 59°.62 3°.3/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.87	+ 8 11.4	1.393	2.193	18.8	19.3
1 2	8 59.87	+ 8 25.3	1.323	2.202	14.9	19.1
1 12	8 52.94	+ 9 0.8	1.274	2.211	10.2	18.8
1 22	8 43.87	+ 9 55.3	1.248	2.220	5.5	18.6
2 1	8 33.90	+11 3.4	1.249	2.229	3.6	18.5
2 11	8 24.54	+12 17.1	1.277	2.238	7.5	18.7
2 21	8 17.10	+13 28.6	1.330	2.248	12.2	19.0
3 2	8 12.50	+14 32.2	1.405	2.257	16.3	19.3

93983 2000 XK_{12} 1 27.9 17°.53 2°.1/26.9 18

12 23	9 6.15	+23 15.8	1.787	2.603	14.6	19.6
1 2	9 1.15	+23 30.6	1.711	2.604	11.1	19.3
1 12	8 53.53	+23 48.7	1.657	2.606	7.1	19.1
1 22	8 44.04	+24 5.2	1.631	2.608	3.1	18.9
2 1	8 33.80	+24 15.3	1.632	2.611	3.2	18.9
2 11	8 24.14	+24 15.8	1.662	2.614	7.2	19.1
2 21	8 16.21	+24 5.7	1.719	2.617	11.2	19.4
3 2	8 10.83	+23 45.7	1.798	2.620	14.7	19.6

334682 2003 BR_{12} 1 27.9 38°.44 4°.8/30.1 18

12 23	9 5.18	+ 7 15.4	1.772	2.550	16.3	19.6
1 2	9 0.01	+ 6 21.2	1.712	2.573	13.0	19.4
1 12	8 52.56	+ 5 41.6	1.674	2.597	9.4	19.2
1 22	8 43.60	+ 5 17.2	1.662	2.621	6.1	19.1
2 1	8 34.16	+ 5 7.3	1.677	2.646	4.9	19.1
2 11	8 25.40	+ 5 9.6	1.720	2.671	7.1	19.2
2 21	8 18.25	+ 5 20.4	1.790	2.696	10.3	19.5
3 2	8 13.38	+ 5 35.7	1.883	2.723	13.4	19.7

154124 2002 ER_{82} 1 27.9 7°.88 1°.6/28.8 18

12 23	9 2.41	+12 41.3	1.848	2.646	14.9	20.1
1 2	8 58.18	+12 50.1	1.766	2.647	11.6	19.9
1 12	8 51.61	+13 11.3	1.706	2.647	7.7	19.6
1 22	8 43.33	+13 42.6	1.672	2.648	3.5	19.4
2 1	8 34.30	+14 20.1	1.666	2.648	2.2	19.3
2 11	8 25.67	+14 59.1	1.689	2.649	6.2	19.5
2 21	8 18.49	+15 35.5	1.739	2.651	10.3	19.8
3 2	8 13.54	+16 6.2	1.813	2.652	13.8	20.0

210310 2007 TQ_{156} 1 27.9 175°.71 0°.2/27.9 18

12 23	9 7.55	+16 23.5	2.025	2.818	14.0	21.2
1 2	9 1.90	+16 42.2	1.940	2.821	10.7	21.0
1 12	8 53.90	+17 9.8	1.879	2.823	6.9	20.7
1 22	8 44.18	+17 42.6	1.846	2.824	2.6	20.5
2 1	8 33.71	+18 16.4	1.842	2.825	1.8	20.4
2 11	8 23.65	+18 46.9	1.869	2.825	6.1	20.7
2 21	8 15.05	+19 11.3	1.924	2.825	10.0	20.9
3 2	8 8.71	+19 27.9	2.003	2.823	13.4	21.1

447687 2007 BE_{36} 1 27.9 307°.53 0°.2/27.9 18

12 23	9 8.05	+17 40.2	1.319	2.142	18.5	21.1
1 2	9 3.49	+17 36.4	1.240	2.136	14.3	20.8
1 12	8 55.52	+17 42.7	1.182	2.131	9.2	20.5
1 22	8 44.93	+17 55.3	1.147	2.126	3.6	20.2
2 1	8 33.16	+18 9.0	1.139	2.122	2.4	20.1
2 11	8 21.99	+18 19.1	1.157	2.117	8.3	20.4
2 21	8 13.03	+18 22.6	1.199	2.113	13.6	20.7
3 2	8 7.38	+18 18.3	1.262	2.109	18.2	21.0

378445 2007 RA_{301} 1 27.9 32°.89 2°.7/26.3 18

12 23	9 3.53	+24 15.4	1.928	2.746	13.7	20.4
1 2	8 58.98	+24 48.9	1.859	2.754	10.3	20.2
1 12	8 52.05	+25 25.3	1.814	2.762	6.7	20.0
1 22	8 43.46	+25 59.2	1.795	2.771	3.3	19.8
2 1	8 34.24	+26 25.7	1.805	2.780	3.6	19.8
2 11	8 25.58	+26 40.9	1.844	2.790	7.1	20.1
2 21	8 18.48	+26 43.7	1.908	2.800	10.6	20.3
3 2	8 13.69	+26 34.5	1.996	2.810	13.7	20.5

54387 2000 KF_{64} 1 27.9 113°.45 6°.3/ 1.5 18

12 23	9 2.42	− 1 57.1	2.012	2.744	16.1	18.9
1 2	8 57.90	− 2 0.6	1.933	2.756	13.4	18.7
1 12	8 51.28	− 1 42.0	1.875	2.767	10.4	18.5
1 22	8 43.17	− 1 0.8	1.841	2.778	7.7	18.4
2 1	8 34.44	+ 0 0.8	1.835	2.789	6.3	18.3
2 11	8 26.10	+ 1 18.0	1.857	2.799	7.4	18.4
2 21	8 19.06	+ 2 44.1	1.907	2.809	10.0	18.6
3 2	8 14.03	+ 4 12.1	1.982	2.819	12.9	18.8

412124 2013 GF_{37} 1 27.9 194°.04 1°.7/26.8 18

12 23	9 6.02	+20 9.7	1.968	2.773	13.9	21.2
1 2	9 0.96	+21 0.7	1.883	2.772	10.6	21.0
1 12	8 53.42	+21 59.7	1.822	2.770	6.7	20.7
1 22	8 44.04	+23 1.3	1.789	2.767	2.8	20.5
2 1	8 33.81	+23 58.9	1.786	2.764	2.9	20.5
2 11	8 23.94	+24 47.2	1.812	2.761	6.9	20.7
2 21	8 15.54	+25 22.7	1.866	2.757	10.8	20.9
3 2	8 9.47	+25 44.6	1.943	2.753	14.2	21.1

14826 Nicollier 1 27.9 153°.60 0°.7/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.70	+19 42.1	3.015	3.804	9.9	19.4
1 2	8 57.49	+20 7.4	2.932	3.813	7.5	19.3
1 12	8 50.73	+20 36.7	2.876	3.821	4.7	19.1
1 22	8 42.91	+21 7.1	2.850	3.828	1.8	18.9
2 1	8 34.66	+21 35.7	2.855	3.836	1.6	18.9
2 11	8 26.70	+21 59.9	2.891	3.842	4.5	19.1
2 21	8 19.69	+22 17.9	2.958	3.848	7.3	19.3
3 2	8 14.16	+22 29.1	3.050	3.854	9.7	19.5

88632 2001 RW_{38} 1 27.9 232°.47 1°.3/28.7 18

12 23	9 4.91	+13 13.5	2.143	2.929	13.6	20.9
1 2	8 59.90	+13 22.7	2.043	2.918	10.6	20.6
1 12	8 52.67	+13 42.5	1.967	2.906	7.0	20.4
1 22	8 43.76	+14 10.6	1.918	2.894	3.1	20.1
2 1	8 34.02	+14 43.9	1.899	2.881	1.9	20.0
2 11	8 24.52	+15 18.2	1.910	2.868	5.8	20.3
2 21	8 16.26	+15 50.2	1.949	2.854	9.7	20.5
3 2	8 10.03	+16 17.1	2.013	2.840	13.1	20.7

27486 2000 GQ_{95} 1 27.9 146°.03 3°.9/25.1 18

12 23	9 5.54	+29 47.8	2.448	3.253	11.5	18.3
1 2	9 0.14	+30 31.2	2.373	3.258	8.8	18.1
1 12	8 52.65	+31 13.2	2.323	3.262	6.1	18.0
1 22	8 43.69	+31 48.6	2.302	3.266	4.1	17.9
2 1	8 34.14	+32 12.8	2.310	3.270	4.6	17.9
2 11	8 25.03	+32 23.0	2.348	3.274	7.1	18.1
2 21	8 17.26	+32 18.7	2.413	3.277	9.8	18.2
3 2	8 11.52	+32 1.3	2.502	3.281	12.3	18.4

229477 2005 UX_{297} 1 27.9 326°.73 8°.8/31.6 18

12 23	8 59.97	− 0 2.2	1.550	2.318	18.7	19.7
1 2	8 56.93	− 1 9.7	1.454	2.297	15.9	19.5
1 12	8 51.20	− 1 57.0	1.377	2.278	12.8	19.2
1 22	8 43.33	− 2 19.8	1.322	2.259	10.0	19.0
2 1	8 34.31	− 2 15.7	1.290	2.241	8.8	18.9
2 11	8 25.47	− 1 46.2	1.284	2.223	10.2	18.9
2 21	8 18.11	− 0 56.7	1.301	2.207	13.4	19.1
3 2	8 13.30	+ 0 5.2	1.340	2.192	17.0	19.2

426060 2012 BT_{88} 1 27.9 264°.17 1°.3/27.1 18

12 23	9 4.48	+19 2.1	1.813	2.624	14.7	21.3
1 2	9 0.07	+19 43.8	1.721	2.612	11.2	21.1
1 12	8 53.03	+20 35.2	1.652	2.601	7.2	20.8
1 22	8 43.96	+21 31.4	1.610	2.589	2.8	20.5
2 1	8 33.89	+22 25.9	1.596	2.577	2.7	20.5
2 11	8 24.12	+23 12.8	1.611	2.565	7.2	20.7
2 21	8 15.85	+23 48.1	1.653	2.552	11.5	20.9
3 2	8 10.05	+24 10.3	1.718	2.540	15.2	21.1

47451 1999 XR_{221} 1 27.9 82°.93 5°.0/25.5 18

12 23	9 10.49	+26 24.2	1.338	2.168	17.9	18.9
1 2	9 5.28	+27 31.6	1.282	2.181	13.6	18.7
1 12	8 56.54	+28 42.0	1.247	2.195	9.1	18.5
1 22	8 45.27	+29 45.4	1.237	2.209	5.4	18.3
2 1	8 33.07	+30 31.9	1.254	2.222	6.2	18.4
2 11	8 21.84	+30 55.8	1.297	2.236	10.2	18.7
2 21	8 13.10	+30 56.9	1.363	2.249	14.4	18.9
3 2	8 7.82	+30 38.5	1.450	2.262	18.0	19.2

54932 2001 OH_{103} 1 27.9 106°.31 0°.7/27.4 18

12 23	9 3.15	+19 4.4	2.488	3.284	11.6	20.1
1 2	8 58.10	+19 31.8	2.415	3.299	8.8	19.9
1 12	8 51.25	+20 4.4	2.368	3.314	5.5	19.7
1 22	8 43.15	+20 39.0	2.349	3.328	2.1	19.5
2 1	8 34.59	+21 11.7	2.361	3.342	1.8	19.5
2 11	8 26.44	+21 39.4	2.404	3.356	5.2	19.8
2 21	8 19.45	+22 0.0	2.475	3.370	8.3	20.0
3 2	8 14.23	+22 12.6	2.571	3.383	11.0	20.2

143394 2003 BG_{29} 1 27.9 249°.04 0°.2/28.0 17

12 23	9 3.46	+17 41.5	2.480	3.272	11.7	20.2
1 2	8 58.44	+17 40.0	2.387	3.267	9.0	20.0
1 12	8 51.54	+17 43.7	2.319	3.262	5.8	19.8
1 22	8 43.30	+17 50.4	2.279	3.257	2.2	19.5
2 1	8 34.47	+17 57.6	2.269	3.252	1.5	19.4
2 11	8 25.95	+18 2.9	2.290	3.247	5.1	19.7
2 21	8 18.56	+18 4.7	2.340	3.241	8.5	19.9
3 2	8 12.93	+18 2.0	2.415	3.236	11.4	20.1

166172 2002 EF_{55} 1 27.9 296°.47 0°.6/28.2 18

12 23	9 4.12	+15 16.4	1.501	2.316	17.0	20.3
1 2	9 0.27	+15 32.2	1.409	2.301	13.2	20.0
1 12	8 53.42	+16 1.7	1.339	2.286	8.6	19.7
1 22	8 44.21	+16 41.4	1.293	2.272	3.4	19.4
2 1	8 33.77	+17 25.8	1.274	2.257	2.2	19.2
2 11	8 23.64	+18 8.5	1.282	2.243	7.6	19.5
2 21	8 15.27	+18 44.6	1.316	2.229	12.7	19.8
3 2	8 9.76	+19 10.9	1.371	2.215	17.1	20.0

155804 2000 VA_{14} 1 27.9 55°.62 3°.2/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.75	+ 8 48.0	1.894	2.678	15.2	19.9
1 2	8 58.35	+ 8 40.9	1.813	2.681	12.0	19.7
1 12	8 51.69	+ 8 48.4	1.754	2.685	8.4	19.4
1 22	8 43.40	+ 9 9.1	1.721	2.689	4.7	19.2
2 1	8 34.41	+ 9 40.5	1.716	2.693	3.4	19.2
2 11	8 25.83	+10 18.4	1.740	2.697	6.3	19.3
2 21	8 18.65	+10 58.4	1.790	2.702	10.0	19.6
3 2	8 13.64	+11 36.4	1.865	2.706	13.4	19.8

343208 2009 VG_{108} 1 27.9 16°.44 1°.0/28.3 18

12 23	9 5.38	+15 19.9	1.146	1.977	20.1	20.8
1 2	9 1.71	+15 22.3	1.079	1.979	15.6	20.5
1 12	8 54.49	+15 39.9	1.032	1.982	10.1	20.2
1 22	8 44.60	+16 8.7	1.007	1.985	4.1	19.9
2 1	8 33.58	+16 42.6	1.006	1.989	2.6	19.8
2 11	8 23.33	+17 14.8	1.031	1.994	8.6	20.2
2 21	8 15.48	+17 40.3	1.078	1.999	14.1	20.5
3 2	8 11.10	+17 56.3	1.146	2.005	18.8	20.8

406182 2006 WD_{100} 1 27.9 48°.90 1°.5/27.1 18

12 23	9 5.71	+18 29.2	1.383	2.207	17.7	20.7
1 2	9 1.16	+19 22.9	1.335	2.234	13.3	20.5
1 12	8 53.64	+20 27.0	1.309	2.260	8.3	20.3
1 22	8 44.12	+21 34.2	1.308	2.288	3.2	20.1
2 1	8 33.98	+22 36.0	1.335	2.315	3.0	20.2
2 11	8 24.75	+23 26.0	1.388	2.343	7.9	20.5
2 21	8 17.66	+24 0.8	1.467	2.372	12.3	20.8
3 2	8 13.48	+24 20.1	1.567	2.400	15.9	21.1

19466 Darcydiegel 1 27.9 118°.96 2°.2/29.3 18

12 23	9 2.30	+10 8.0	1.992	2.778	14.5	19.6
1 2	8 57.94	+10 23.8	1.909	2.780	11.3	19.4
1 12	8 51.41	+10 53.7	1.848	2.783	7.7	19.2
1 22	8 43.30	+11 35.6	1.813	2.786	3.9	19.0
2 1	8 34.49	+12 25.6	1.808	2.788	2.5	18.9
2 11	8 26.05	+13 18.7	1.832	2.791	5.9	19.1
2 21	8 18.92	+14 10.4	1.883	2.793	9.7	19.3
3 2	8 13.86	+14 56.9	1.959	2.796	13.0	19.6

34454 2000 SB_{86} 1 27.9 160°.24 3°.1/25.7 18

12 23	9 6.13	+25 50.4	2.314	3.119	12.1	19.4
1 2	9 0.70	+26 42.1	2.237	3.124	9.2	19.2
1 12	8 53.08	+27 35.9	2.185	3.129	6.0	19.0
1 22	8 43.91	+28 26.1	2.162	3.134	3.4	18.9
2 1	8 34.08	+29 7.5	2.169	3.138	4.0	18.9
2 11	8 24.66	+29 36.2	2.206	3.141	6.8	19.1
2 21	8 16.58	+29 50.9	2.271	3.145	9.9	19.3
3 2	8 10.59	+29 52.1	2.359	3.147	12.7	19.5

277128 2005 GJ_{127} 1 27.9 231°.44 3°.3/24.9 17

12 23	9 3.07	+27 4.1	2.684	3.489	10.6	20.8
1 2	8 58.27	+28 6.4	2.592	3.479	8.1	20.6
1 12	8 51.52	+29 10.8	2.527	3.469	5.5	20.5
1 22	8 43.34	+30 12.1	2.490	3.458	3.5	20.3
2 1	8 34.45	+31 5.2	2.484	3.447	4.1	20.3
2 11	8 25.77	+31 46.1	2.509	3.436	6.6	20.5
2 21	8 18.13	+32 12.9	2.561	3.424	9.3	20.6
3 2	8 12.27	+32 25.6	2.637	3.412	11.8	20.8

81953 2000 PS_{15} 1 27.9 237°.40 5°.8/ 1.1 18

12 23	9 0.11	− 1 25.8	2.591	3.312	13.1	19.0
1 2	8 55.83	− 1 55.0	2.494	3.307	11.0	18.9
1 12	8 49.87	− 2 8.6	2.419	3.302	8.8	18.7
1 22	8 42.68	− 2 5.5	2.369	3.297	6.7	18.6
2 1	8 34.93	− 1 45.8	2.348	3.292	5.8	18.5
2 11	8 27.38	− 1 11.8	2.355	3.286	6.7	18.5
2 21	8 20.76	− 0 26.9	2.390	3.281	8.8	18.7
3 2	8 15.67	+ 0 24.3	2.450	3.275	11.1	18.8

412911 2014 QY_{130} 1 27.9 330°.44 1°.1/27.4 18

12 23	9 4.79	+19 23.4	1.452	2.277	17.0	21.0
1 2	9 0.80	+19 41.9	1.371	2.269	13.0	20.7
1 12	8 53.72	+20 9.6	1.312	2.263	8.3	20.4
1 22	8 44.30	+20 41.6	1.277	2.256	3.2	20.1
2 1	8 33.79	+21 11.7	1.269	2.250	2.7	20.1
2 11	8 23.80	+21 34.3	1.287	2.245	8.0	20.4
2 21	8 15.75	+21 46.4	1.330	2.240	12.9	20.6
3 2	8 10.68	+21 47.1	1.395	2.236	17.1	20.9

169208 2001 RD_{100} 1 27.9 123°.71 3°.8/25.4 18

12 23	9 6.17	+29 48.9	2.496	3.300	11.3	20.4
1 2	9 0.54	+30 25.5	2.425	3.309	8.7	20.2
1 12	8 52.87	+31 0.3	2.379	3.318	6.0	20.1
1 22	8 43.80	+31 28.4	2.361	3.326	3.9	19.9
2 1	8 34.21	+31 45.6	2.373	3.334	4.4	20.0
2 11	8 25.09	+31 49.5	2.415	3.342	6.8	20.1
2 21	8 17.32	+31 39.9	2.485	3.350	9.5	20.3
3 2	8 11.55	+31 18.3	2.578	3.358	11.9	20.5

286365 2001 XU_{158} 1 27.9 28°.35 1°.0/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.20	+17 20.4	1.126	1.966	19.8	20.0
1 2	9 0.00	+17 59.0	1.070	1.976	15.1	19.8
1 12	8 53.32	+18 52.4	1.033	1.987	9.6	19.5
1 22	8 44.13	+19 53.5	1.019	1.999	3.5	19.2
2 1	8 33.98	+20 53.2	1.030	2.013	3.0	19.2
2 11	8 24.71	+21 43.1	1.066	2.027	8.8	19.6
2 21	8 17.86	+22 18.2	1.125	2.042	14.0	19.9
3 2	8 14.39	+22 37.3	1.203	2.057	18.4	20.2

107 Camilla 1 27.9 7°.40 3°.0/30.3 18 R

12 23	8 58.32	+ 6 41.4	2.497	3.264	12.4	12.4
1 2	8 54.52	+ 6 51.0	2.407	3.264	9.9	12.3
1 12	8 49.04	+ 7 14.0	2.341	3.265	7.0	12.1
1 22	8 42.37	+ 7 49.1	2.302	3.266	4.2	11.9
2 1	8 35.17	+ 8 34.0	2.292	3.267	3.0	11.8
2 11	8 28.23	+ 9 24.9	2.312	3.268	5.1	11.9
2 21	8 22.26	+10 17.9	2.360	3.269	8.0	12.1
3 2	8 17.85	+11 9.3	2.434	3.271	10.8	12.3

306782 2001 FR_{92} 1 27.9 341°.34 8°.9/22.5 18

12 23	9 9.03	+40 3.3	1.819	2.631	14.6	19.6
1 2	9 3.98	+41 19.0	1.753	2.626	12.1	19.4
1 12	8 55.69	+42 25.8	1.708	2.622	9.9	19.3
1 22	8 45.02	+43 14.0	1.689	2.618	8.9	19.2
2 1	8 33.34	+43 35.6	1.696	2.614	9.7	19.3
2 11	8 22.38	+43 27.4	1.728	2.611	11.9	19.4
2 21	8 13.59	+42 51.5	1.783	2.609	14.5	19.6
3 2	8 7.94	+41 53.2	1.858	2.606	17.0	19.7

216865 2008 BH_{46} 1 27.9 84°.63 3°.5/30.3 18

12 23	9 3.69	+ 5 45.6	1.789	2.563	16.3	20.6
1 2	8 59.06	+ 6 10.4	1.721	2.582	12.9	20.4
1 12	8 52.12	+ 6 54.7	1.674	2.600	9.1	20.2
1 22	8 43.56	+ 7 56.1	1.653	2.619	5.2	20.0
2 1	8 34.38	+ 9 9.8	1.661	2.637	3.6	19.9
2 11	8 25.72	+10 29.2	1.697	2.655	6.4	20.2
2 21	8 18.58	+11 47.5	1.761	2.673	10.1	20.4
3 2	8 13.70	+12 59.5	1.850	2.691	13.5	20.7

243164 2007 TW_{94} 1 27.9 105°.45 0°.2/28.0 18

12 23	9 1.95	+15 46.8	2.431	3.223	12.0	20.8
1 2	8 57.26	+16 15.9	2.355	3.235	9.1	20.6
1 12	8 50.77	+16 53.0	2.303	3.247	5.8	20.4
1 22	8 43.02	+17 34.9	2.280	3.258	2.2	20.2
2 1	8 34.76	+18 17.9	2.287	3.270	1.5	20.2
2 11	8 26.87	+18 58.1	2.325	3.281	5.0	20.4
2 21	8 20.11	+19 32.6	2.391	3.292	8.3	20.7
3 2	8 15.10	+19 59.9	2.483	3.303	11.1	20.9

520998 2015 BQ_{514} 1 27.9 61°.04 15°.7/ 9.1 18

12 23	9 2.46	−18 19.4	1.032	1.741	29.5	21.2
1 2	8 59.72	−18 36.6	0.971	1.751	26.6	21.0
1 12	8 53.36	−17 57.6	0.921	1.762	23.1	20.7
1 22	8 44.24	−16 12.9	0.884	1.773	19.5	20.6
2 1	8 33.88	−13 20.9	0.867	1.784	16.6	20.4
2 11	8 24.25	− 9 33.7	0.871	1.796	15.8	20.4
2 21	8 17.06	− 5 15.2	0.898	1.807	17.5	20.6
3 2	8 13.47	− 0 52.6	0.947	1.819	20.7	20.8

169296 2001 SW_{333} 1 27.9 282°.49 5°.0/24.5 18

12 23	9 5.62	+32 27.6	2.300	3.109	12.0	20.3
1 2	9 0.50	+33 16.0	2.220	3.104	9.4	20.1
1 12	8 53.06	+34 1.7	2.164	3.099	6.8	19.9
1 22	8 43.95	+34 38.7	2.136	3.093	5.1	19.8
2 1	8 34.11	+35 1.5	2.137	3.088	5.7	19.9
2 11	8 24.69	+35 7.1	2.166	3.082	8.1	20.0
2 21	8 16.71	+34 55.3	2.221	3.077	10.9	20.2
3 2	8 10.96	+34 28.1	2.299	3.072	13.4	20.3

522529 2016 ER_{236} 1 27.9 233°.50 3°.0/30.5 17

12 23	9 0.81	+ 4 53.4	2.575	3.327	12.4	22.2
1 2	8 56.45	+ 5 23.2	2.469	3.316	10.0	22.0
1 12	8 50.34	+ 6 8.8	2.386	3.304	7.2	21.8
1 22	8 42.91	+ 7 8.7	2.331	3.293	4.3	21.6
2 1	8 34.81	+ 8 20.0	2.307	3.281	3.1	21.5
2 11	8 26.86	+ 9 38.3	2.313	3.268	5.2	21.6
2 21	8 19.83	+10 58.3	2.349	3.255	8.2	21.8
3 2	8 14.36	+12 15.6	2.412	3.242	11.1	22.0

315535 2008 BS_{9} 1 27.9 49°.68 1°.4/27.0 18

12 23	9 3.49	+17 34.3	1.544	2.363	16.4	20.3
1 2	8 59.50	+18 37.8	1.476	2.372	12.4	20.1
1 12	8 52.71	+19 54.2	1.430	2.381	7.8	19.8
1 22	8 43.88	+21 16.4	1.410	2.390	3.0	19.5
2 1	8 34.17	+22 36.1	1.418	2.399	2.9	19.6
2 11	8 25.02	+23 45.3	1.454	2.409	7.7	19.9
2 21	8 17.69	+24 39.2	1.516	2.418	12.1	20.1
3 2	8 13.08	+25 16.1	1.599	2.428	15.8	20.4

55617 2002 TF_{79} 1 27.9 33°.59 6°.0/23.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.37	+32 20.9	1.955	2.775	13.4	18.2
1 2	8 59.91	+33 40.4	1.892	2.781	10.5	18.1
1 12	8 52.84	+34 57.6	1.853	2.788	7.7	17.9
1 22	8 43.89	+36 4.5	1.841	2.795	6.1	17.8
2 1	8 34.17	+36 53.8	1.857	2.803	6.9	17.9
2 11	8 24.98	+37 21.3	1.900	2.811	9.4	18.1
2 21	8 17.49	+37 26.7	1.968	2.819	12.3	18.3
3 2	8 12.51	+37 12.6	2.057	2.827	14.9	18.5

270422 2002 CA_{40} 1 27.9 288°.74 9°.0/ 4.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.96	−10 6.9	2.029	2.717	17.2	20.1
1 2	8 56.35	−10 10.7	1.922	2.701	15.2	19.9
1 12	8 50.55	− 9 46.2	1.835	2.685	12.8	19.7
1 22	8 43.06	− 8 50.3	1.769	2.669	10.5	19.5
2 1	8 34.68	− 7 22.5	1.728	2.653	9.1	19.4
2 11	8 26.45	− 5 27.2	1.715	2.637	9.5	19.4
2 21	8 19.36	− 3 12.5	1.729	2.621	11.5	19.5
3 2	8 14.25	− 0 48.5	1.769	2.606	14.2	19.6

170127 2003 AZ_{12} 1 27.9 4°.30 1°.8/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.89	+16 14.6	1.953	2.760	13.9	18.8
1 2	8 57.17	+18 9.3	1.869	2.760	10.5	18.5
1 12	8 51.12	+20 19.7	1.812	2.761	6.6	18.3
1 22	8 43.28	+22 37.9	1.783	2.762	2.7	18.0
2 1	8 34.55	+24 54.1	1.785	2.763	3.2	18.1
2 11	8 26.06	+26 58.6	1.819	2.765	7.2	18.3
2 21	8 18.86	+28 44.7	1.881	2.767	11.0	18.6
3 2	8 13.83	+30 9.4	1.967	2.770	14.3	18.8

110315 2001 SR_{279} 1 27.9 163°.38 4°.6/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.16	+31 0.6	2.318	3.120	12.2	20.6
1 2	9 3.08	+31 54.8	2.244	3.126	9.4	20.5
1 12	8 54.64	+32 47.1	2.196	3.131	6.6	20.3
1 22	8 44.53	+33 31.1	2.176	3.136	4.7	20.2
2 1	8 33.75	+34 1.3	2.185	3.140	5.4	20.2
2 11	8 23.45	+34 14.5	2.224	3.143	7.8	20.4
2 21	8 14.65	+34 10.6	2.290	3.146	10.6	20.6
3 2	8 8.13	+33 51.6	2.380	3.148	13.1	20.7

399297 2014 HL_{168} 1 27.9 232°.02 2°.7/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.75	+22 10.6	1.731	2.543	15.2	21.9
1 2	9 3.57	+23 1.8	1.640	2.532	11.7	21.6
1 12	8 55.43	+24 0.8	1.572	2.520	7.5	21.3
1 22	8 44.98	+25 1.1	1.531	2.508	3.5	21.1
2 1	8 33.36	+25 54.8	1.518	2.495	3.9	21.1
2 11	8 22.06	+26 35.7	1.535	2.481	8.2	21.3
2 21	8 12.47	+27 0.5	1.577	2.467	12.5	21.5
3 2	8 5.67	+27 9.1	1.642	2.452	16.4	21.7

430239 2013 WA_{6} 1 27.9 124°.89 0°.6/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.62	+17 3.4	2.260	3.059	12.5	20.6
1 2	8 57.27	+17 49.9	2.177	3.062	9.5	20.4
1 12	8 50.92	+18 45.4	2.119	3.065	6.0	20.2
1 22	8 43.13	+19 45.7	2.089	3.068	2.2	20.0
2 1	8 34.71	+20 45.7	2.089	3.071	1.9	20.0
2 11	8 26.60	+21 40.6	2.120	3.074	5.7	20.2
2 21	8 19.67	+22 26.9	2.178	3.077	9.2	20.4
3 2	8 14.63	+23 2.6	2.262	3.079	12.2	20.6

496194 2011 HH_{52} 1 27.9 105°.97 0°.8/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.06	+12 48.7	2.217	3.007	13.0	21.1
1 2	8 56.85	+13 29.5	2.133	3.011	10.0	20.9
1 12	8 50.66	+14 22.3	2.074	3.015	6.5	20.7
1 22	8 43.04	+15 23.9	2.041	3.018	2.7	20.4
2 1	8 34.79	+16 29.4	2.039	3.022	1.6	20.4
2 11	8 26.85	+17 33.8	2.067	3.026	5.4	20.6
2 21	8 20.08	+18 32.5	2.124	3.029	9.0	20.8
3 2	8 15.17	+19 22.7	2.205	3.033	12.1	21.1

241598 1999 GV_{28} 1 27.9 326°.37 4°.6/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.03	+28 15.7	1.806	2.631	14.1	19.8
1 2	8 59.18	+29 3.0	1.716	2.613	10.9	19.5
1 12	8 52.58	+29 51.9	1.650	2.595	7.5	19.3
1 22	8 43.89	+30 35.5	1.609	2.578	4.8	19.1
2 1	8 34.17	+31 6.9	1.596	2.562	5.5	19.1
2 11	8 24.80	+31 21.2	1.610	2.546	8.9	19.3
2 21	8 17.07	+31 16.9	1.649	2.530	12.6	19.4
3 2	8 11.96	+30 55.6	1.709	2.516	16.0	19.6

265394 2004 SS_{56} 1 27.9 193°.65 2°.5/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.91	+24 4.1	2.207	3.012	12.6	20.7
1 2	9 0.65	+24 40.0	2.123	3.011	9.6	20.5
1 12	8 53.13	+25 19.0	2.063	3.009	6.2	20.2
1 22	8 43.99	+25 56.1	2.032	3.007	3.0	20.0
2 1	8 34.14	+26 26.4	2.031	3.005	3.3	20.1
2 11	8 24.68	+26 46.3	2.059	3.003	6.6	20.3
2 21	8 16.59	+26 54.2	2.115	3.000	10.0	20.5
3 2	8 10.64	+26 50.4	2.195	2.997	13.0	20.7

224307 2005 UA_{12} 1 27.9 179°.18 1°.2/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.58	+12 52.0	2.118	2.906	13.6	21.0
1 2	8 58.85	+13 12.1	2.031	2.907	10.6	20.8
1 12	8 51.98	+13 43.7	1.967	2.907	7.0	20.6
1 22	8 43.56	+14 24.1	1.931	2.907	3.1	20.4
2 1	8 34.45	+15 9.3	1.925	2.907	1.8	20.3
2 11	8 25.66	+15 54.8	1.949	2.907	5.7	20.5
2 21	8 18.15	+16 36.7	2.000	2.906	9.4	20.7
3 2	8 12.65	+17 12.3	2.077	2.905	12.7	21.0

113816 2002 TM_{216} 1 27.9 35°.16 1°.0/27.2 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.98	+17 30.2	2.017	2.825	13.5	19.0
1 2	8 57.02	+18 28.6	1.940	2.830	10.2	18.8
1 12	8 50.88	+19 37.2	1.887	2.836	6.4	18.5
1 22	8 43.16	+20 50.6	1.862	2.841	2.4	18.3
2 1	8 34.74	+22 2.8	1.866	2.847	2.3	18.3
2 11	8 26.69	+23 7.7	1.900	2.853	6.3	18.6
2 21	8 19.97	+24 1.4	1.961	2.859	10.0	18.8
3 2	8 15.32	+24 41.8	2.045	2.865	13.2	19.0

43056 1999 VW_{88} 1 27.9 65°.54 1°.1/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.06	+19 40.9	1.962	2.771	13.8	19.6
1 2	8 59.37	+20 7.5	1.886	2.776	10.5	19.4
1 12	8 52.36	+20 40.7	1.833	2.781	6.6	19.1
1 22	8 43.71	+21 16.3	1.808	2.787	2.5	18.9
2 1	8 34.38	+21 49.3	1.811	2.792	2.3	18.9
2 11	8 25.52	+22 15.7	1.844	2.798	6.4	19.2
2 21	8 18.13	+22 33.0	1.904	2.804	10.2	19.4
3 2	8 12.98	+22 40.5	1.987	2.809	13.4	19.6

360447 2002 NK_{65} 1 27.9 223°.51 0°.2/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.46	+17 4.7	1.983	2.780	14.1	21.9
1 2	9 1.31	+17 25.6	1.889	2.772	10.8	21.7
1 12	8 53.71	+17 55.5	1.819	2.764	7.0	21.4
1 22	8 44.27	+18 30.7	1.776	2.755	2.6	21.1
2 1	8 33.95	+19 6.7	1.762	2.745	1.9	21.1
2 11	8 23.93	+19 38.8	1.779	2.735	6.3	21.3
2 21	8 15.33	+20 4.0	1.823	2.724	10.5	21.5
3 2	8 9.00	+20 20.6	1.891	2.713	14.0	21.7

28766 Monge 1 27.9 192°.52 0°.8/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.34	+19 21.0	2.800	3.592	10.5	19.2
1 2	8 57.45	+19 49.2	2.709	3.591	8.0	19.0
1 12	8 50.88	+20 22.5	2.644	3.589	5.1	18.8
1 22	8 43.10	+20 57.6	2.607	3.586	1.9	18.6
2 1	8 34.79	+21 31.4	2.602	3.583	1.7	18.6
2 11	8 26.73	+22 0.5	2.628	3.580	4.9	18.8
2 21	8 19.65	+22 23.1	2.684	3.576	7.9	19.0
3 2	8 14.13	+22 38.0	2.765	3.572	10.5	19.1

332422 2007 RN_{286} 1 27.9 119°.50 2°.1/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.11	+10 11.2	2.679	3.445	11.6	21.4
1 2	8 57.90	+10 8.7	2.601	3.462	9.1	21.3
1 12	8 51.07	+10 15.6	2.548	3.477	6.2	21.1
1 22	8 43.14	+10 30.6	2.524	3.493	3.3	21.0
2 1	8 34.80	+10 51.6	2.530	3.508	2.3	20.9
2 11	8 26.81	+11 16.1	2.567	3.523	4.7	21.1
2 21	8 19.86	+11 41.2	2.633	3.537	7.5	21.3
3 2	8 14.48	+12 4.9	2.726	3.550	10.1	21.5

237621 2001 RM_{56} 1 27.9 147°.56 2°.4/26.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.40	+25 20.7	2.680	3.480	10.7	21.4
1 2	9 06	+25 52.7	2.602	3.487	8.1	21.3
1 12	8 51.90	+26 25.9	2.550	3.494	5.3	21.1
1 22	8 43.48	+26 56.2	2.527	3.500	2.8	20.9
2 1	8 34.55	+27 19.9	2.534	3.506	3.1	21.0
2 11	8 26.00	+27 34.4	2.572	3.512	5.7	21.1
2 21	8 18.60	+27 38.6	2.638	3.517	8.5	21.3
3 2	8 12.95	+27 32.8	2.730	3.522	11.0	21.5

248796 2006 SC_{104} 1 27.9 174°.06 3°.4/30.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.81	+ 6 47.0	2.762	3.514	11.7	20.8
1 2	8 57.71	+ 6 18.9	2.669	3.515	9.4	20.7
1 12	8 50.99	+ 6 0.8	2.601	3.517	6.8	20.5
1 22	8 43.14	+ 5 52.6	2.560	3.518	4.4	20.4
2 1	8 34.79	+ 5 53.6	2.550	3.518	3.5	20.3
2 11	8 26.71	+ 6 2.1	2.570	3.519	5.2	20.4
2 21	8 19.58	+ 6 15.8	2.620	3.519	7.8	20.6
3 2	8 13.96	+ 6 32.2	2.695	3.519	10.3	20.7

168970 2001 BT_{56} 1 27.9 24°.45 0°.2/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.82	+14 59.4	1.419	2.239	17.5	19.9
1 2	8 59.23	+15 47.4	1.347	2.243	13.4	19.7
1 12	8 52.69	+16 51.8	1.297	2.246	8.6	19.4
1 22	8 43.94	+18 6.7	1.271	2.251	3.2	19.1
2 1	8 34.22	+19 23.9	1.273	2.256	2.3	19.1
2 11	8 25.04	+20 35.1	1.301	2.261	7.7	19.4
2 21	8 17.76	+21 34.0	1.355	2.266	12.5	19.7
3 2	8 13.35	+22 17.6	1.430	2.272	16.6	19.9

257534 1998 DL_{12} 1 27.9 231°.46 0°.9/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.17	+18 16.9	1.866	2.671	14.6	21.4
1 2	9 1.29	+18 53.4	1.774	2.662	11.2	21.2
1 12	8 53.81	+19 39.7	1.706	2.653	7.1	20.9
1 22	8 44.35	+20 30.9	1.664	2.643	2.7	20.6
2 1	8 33.91	+21 21.2	1.651	2.633	2.4	20.6
2 11	8 23.77	+22 5.0	1.668	2.622	6.9	20.8
2 21	8 15.13	+22 38.6	1.712	2.611	11.2	21.0
3 2	8 8.92	+23 0.3	1.779	2.599	14.8	21.3

202795 2008 QD_{17} 1 27.9 163°.32 0°.6/28.3 18

12 23	9 3.22	+14 46.5	2.207	2.999	13.0	21.1
1 2	8 58.49	+15 4.8	2.122	3.001	10.0	20.9
1 12	8 51.71	+15 32.5	2.061	3.003	6.5	20.7
1 22	8 43.46	+16 6.8	2.027	3.005	2.6	20.4
2 1	8 34.57	+16 43.8	2.024	3.007	1.6	20.3
2 11	8 26.03	+17 19.6	2.050	3.008	5.5	20.6
2 21	8 18.72	+17 51.1	2.104	3.009	9.1	20.8
3 2	8 13.35	+18 16.0	2.184	3.010	12.3	21.0

166291 2002 HE_{10} 1 27.9 330°.14 5°.0/25.6 18

12 23	9 5.63	+26 31.0	1.350	2.187	17.3	19.4
1 2	9 1.91	+27 26.7	1.274	2.178	13.4	19.1
1 12	8 54.70	+28 26.9	1.220	2.169	9.0	18.8
1 22	8 44.79	+29 22.5	1.189	2.162	5.4	18.6
2 1	8 33.61	+30 3.8	1.184	2.154	6.2	18.6
2 11	8 23.02	+30 24.0	1.205	2.147	10.4	18.8
2 21	8 14.68	+30 21.8	1.248	2.141	14.9	19.1
3 2	8 9.74	+29 59.5	1.311	2.136	18.9	19.3

307375 2002 SR_{34} 1 27.9 342°.79 9°.2/23.5 18

12 23	9 8.80	+36 46.3	1.397	2.227	17.2	18.9
1 2	9 4.55	+37 59.8	1.329	2.220	14.0	18.6
1 12	8 56.46	+39 6.5	1.283	2.213	10.9	18.4
1 22	8 45.45	+39 54.4	1.260	2.207	9.3	18.3
2 1	8 33.20	+40 13.2	1.262	2.202	10.2	18.4
2 11	8 21.79	+39 58.7	1.288	2.197	13.1	18.5
2 21	8 13.02	+39 13.3	1.336	2.194	16.5	18.7
3 2	8 7.99	+38 3.9	1.402	2.191	19.7	18.9

234498 2001 TA_{95} 1 27.9 168°.56 1°.0/27.1 18

12 23	9 3.03	+21 6.8	3.155	3.945	9.5	21.5
1 2	8 57.75	+21 30.3	3.069	3.949	7.2	21.3
1 12	8 50.96	+21 56.8	3.009	3.954	4.6	21.2
1 22	8 43.12	+22 23.6	2.979	3.957	1.8	21.0
2 1	8 34.85	+22 47.6	2.981	3.960	1.8	21.0
2 11	8 26.84	+23 6.7	3.014	3.963	4.5	21.2
2 21	8 19.74	+23 19.4	3.077	3.965	7.2	21.4
3 2	8 14.07	+23 25.1	3.167	3.966	9.5	21.5

17358 Lozino–Lozinskij 1 27.9 137°.27 3°.6/29.9 18

12 23	9 6.22	+ 7 30.5	1.810	2.585	16.1	18.3
1 2	9 1.08	+ 7 26.1	1.732	2.594	12.8	18.1
1 12	8 53.50	+ 7 38.0	1.676	2.603	9.0	17.9
1 22	8 44.17	+ 8 5.2	1.645	2.611	5.2	17.7
2 1	8 34.11	+ 8 44.5	1.643	2.619	3.8	17.6
2 11	8 24.52	+ 9 31.2	1.670	2.626	6.7	17.8
2 21	8 16.47	+10 20.1	1.724	2.633	10.5	18.1
3 2	8 10.76	+11 6.8	1.802	2.640	14.0	18.3

502982 2015 FQ_{66} 1 27.9 304°.01 3°.6/30.0 17

12 23	9 1.81	+ 7 36.5	2.282	3.051	13.4	21.3
1 2	8 57.37	+ 7 11.2	2.187	3.044	10.7	21.1
1 12	8 50.99	+ 6 57.6	2.115	3.038	7.7	20.9
1 22	8 43.21	+ 6 55.7	2.070	3.032	4.8	20.7
2 1	8 34.78	+ 7 4.4	2.054	3.026	3.7	20.6
2 11	8 26.61	+ 7 21.2	2.066	3.019	5.9	20.7
2 21	8 19.55	+ 7 43.3	2.107	3.013	9.0	20.9
3 2	8 14.28	+ 8 7.3	2.173	3.008	12.0	21.1

130803 2000 TS_{52} 1 27.9 214°.23 2°.5/29.2 18

12 23	9 5.73	+10 44.9	1.742	2.532	16.1	20.6
1 2	9 0.97	+10 46.8	1.654	2.528	12.6	20.4
1 12	8 53.60	+11 3.5	1.588	2.524	8.6	20.1
1 22	8 44.28	+11 32.9	1.547	2.520	4.3	19.8
2 1	8 34.03	+12 11.7	1.535	2.516	2.8	19.7
2 11	8 24.15	+12 54.7	1.551	2.511	6.7	20.0
2 21	8 15.81	+13 37.2	1.594	2.505	11.0	20.2
3 2	8 9.94	+14 15.1	1.661	2.500	14.9	20.4

341786 2007 WD_{45} 1 27.9 18°.41 2°.4/26.5 18

12 23	9 4.84	+25 0.0	2.164	2.974	12.6	20.3
1 2	8 59.81	+25 18.6	2.085	2.975	9.6	20.1
1 12	8 52.58	+25 38.7	2.030	2.977	6.2	19.9
1 22	8 43.80	+25 55.7	2.003	2.979	3.0	19.7
2 1	8 34.40	+26 5.8	2.006	2.981	3.3	19.7
2 11	8 25.48	+26 6.1	2.038	2.984	6.5	19.9
2 21	8 17.97	+25 55.9	2.097	2.986	9.9	20.1
3 2	8 12.60	+25 35.9	2.180	2.989	12.9	20.3

174240 2002 RR_{130} 1 27.9 39°.58 3°.8/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.58	+27 43.1	1.394	2.219	17.5	19.6
1 2	9 6.57	+27 42.8	1.336	2.232	13.4	19.3
1 12	8 57.20	+27 40.4	1.298	2.246	8.8	19.1
1 22	8 45.57	+27 29.4	1.286	2.260	4.6	18.9
2 1	8 33.27	+27 5.2	1.300	2.275	4.7	19.0
2 11	8 22.09	+26 26.5	1.342	2.291	8.9	19.2
2 21	8 13.42	+25 35.6	1.408	2.307	13.2	19.5
3 2	8 8.08	+24 36.2	1.497	2.323	16.9	19.8

280213 2002 TC_{277} 1 27.9 178°.96 2°.6/29.7 18

12 23	9 2.06	+ 9 21.1	2.419	3.190	12.6	20.7
1 2	8 57.42	+ 9 15.8	2.328	3.190	10.0	20.5
1 12	8 50.95	+ 9 21.5	2.262	3.191	6.9	20.3
1 22	8 43.17	+ 9 37.2	2.223	3.191	3.8	20.1
2 1	8 34.83	+10 0.9	2.214	3.191	2.7	20.0
2 11	8 26.77	+10 29.5	2.235	3.191	5.2	20.2
2 21	8 19.79	+10 59.9	2.284	3.191	8.4	20.4
3 2	8 14.51	+11 29.2	2.359	3.190	11.3	20.6

518136 2016 EK_{115} 1 27.9 334°.29 8°.6/24.7 18

12 23	9 10.77	+36 57.0	1.406	2.233	17.3	20.0
1 2	9 6.07	+37 38.9	1.329	2.218	14.0	19.7
1 12	8 57.45	+38 12.0	1.272	2.204	10.8	19.5
1 22	8 45.85	+38 25.5	1.239	2.191	8.8	19.4
2 1	8 32.98	+38 10.5	1.231	2.178	9.5	19.4
2 11	8 20.98	+37 23.9	1.247	2.167	12.5	19.5
2 21	8 11.65	+36 9.3	1.286	2.157	16.2	19.7
3 2	8 6.12	+34 34.3	1.345	2.148	19.7	19.9

247913 2003 WA_{27} 1 27.9 39°.79 5°.6/24.7 18

12 23	9 6.51	+31 55.0	1.909	2.726	13.8	20.3
1 2	9 1.51	+32 49.4	1.844	2.733	10.7	20.1
1 12	8 53.85	+33 40.9	1.803	2.740	7.7	19.9
1 22	8 44.32	+34 22.1	1.789	2.748	5.7	19.8
2 1	8 34.08	+34 46.7	1.802	2.756	6.3	19.9
2 11	8 24.48	+34 51.6	1.843	2.764	9.0	20.0
2 21	8 16.67	+34 37.1	1.909	2.772	12.0	20.2
3 2	8 11.44	+34 6.0	1.997	2.781	14.8	20.4

520728 2014 QJ_{471} 1 27.9 63°.99 1°.6/29.1 18

12 23	9 2.98	+ 9 48.4	1.718	2.511	16.1	20.8
1 2	8 58.68	+10 39.6	1.654	2.531	12.5	20.7
1 12	8 51.98	+11 48.6	1.612	2.551	8.3	20.4
1 22	8 43.61	+13 10.8	1.596	2.571	3.8	20.2
2 1	8 34.58	+14 39.4	1.609	2.591	2.1	20.1
2 11	8 26.11	+16 6.7	1.651	2.611	6.3	20.5
2 21	8 19.22	+17 26.3	1.720	2.631	10.4	20.7
3 2	8 14.66	+18 34.0	1.814	2.651	13.9	21.0

450317 2004 RH_{334} 1 27.9 99°.33 4°.4/25.6 15

12 23	9 12.87	+26 57.2	1.694	2.506	15.5	21.8
1 2	9 6.32	+27 59.5	1.642	2.532	11.8	21.6
1 12	8 56.87	+29 2.5	1.614	2.557	7.8	21.4
1 22	8 45.43	+29 57.7	1.612	2.582	4.7	21.3
2 1	8 33.38	+30 38.0	1.640	2.606	5.3	21.4
2 11	8 22.22	+30 59.2	1.696	2.630	8.6	21.6
2 21	8 13.18	+31 1.5	1.778	2.652	12.2	21.9
3 2	8 7.06	+30 47.6	1.882	2.674	15.2	22.2

159999 Michaelgriffin 1 27.9 108°.90 0°.5/28.2 18

12 23	9 3.07	+15 6.0	2.062	2.859	13.6	21.1
1 2	8 58.51	+15 27.8	1.980	2.862	10.5	20.9
1 12	8 51.80	+15 59.5	1.923	2.866	6.8	20.7
1 22	8 43.54	+16 37.8	1.892	2.870	2.7	20.5
2 1	8 34.61	+17 18.7	1.891	2.874	1.7	20.4
2 11	8 26.07	+17 57.7	1.919	2.877	5.8	20.7
2 21	8 18.86	+18 31.4	1.975	2.881	9.5	20.9
3 2	8 13.70	+18 57.6	2.055	2.884	12.8	21.1

325480 2009 RW_{2} 1 27.9 179°.07 3°.7/29.8 18

12 23	9 6.28	+ 8 19.1	2.131	2.898	14.2	20.9
1 2	9 0.83	+ 7 47.1	2.042	2.899	11.4	20.7
1 12	8 53.23	+ 7 26.6	1.976	2.900	8.1	20.5
1 22	8 44.08	+ 7 17.6	1.937	2.900	4.9	20.3
2 1	8 34.25	+ 7 19.2	1.927	2.900	3.8	20.2
2 11	8 24.78	+ 7 29.0	1.947	2.899	6.2	20.3
2 21	8 16.60	+ 7 44.2	1.995	2.899	9.6	20.5
3 2	8 10.45	+ 8 1.5	2.068	2.898	12.7	20.7

328675 2009 SL_{293} 1 27.9 195°.77 0°.9/28.5 18

12 23	9 3.15	+13 20.2	2.019	2.812	14.0	21.5
1 2	8 58.68	+13 48.6	1.932	2.811	10.8	21.3
1 12	8 51.98	+14 29.3	1.868	2.810	7.1	21.0
1 22	8 43.64	+15 19.0	1.832	2.809	3.0	20.8
2 1	8 34.55	+16 13.1	1.825	2.808	1.8	20.7
2 11	8 25.78	+17 6.6	1.847	2.806	5.9	20.9
2 21	8 18.33	+17 55.0	1.897	2.804	9.8	21.2
3 2	8 12.98	+18 35.4	1.972	2.802	13.2	21.4

493936 2015 YP_9 1 27.9 118°.37 0°.4/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.62	+15 17.4	1.984	2.775	14.3	21.7
1 2	9 1.89	+15 43.0	1.915	2.794	10.9	21.5
1 12	8 53.89	+16 18.4	1.870	2.812	7.0	21.3
1 22	8 44.31	+16 59.6	1.852	2.830	2.7	21.1
2 1	8 34.14	+17 42.2	1.864	2.847	1.7	21.0
2 11	8 24.52	+18 21.4	1.906	2.863	5.9	21.4
2 21	8 16.42	+18 54.1	1.977	2.879	9.7	21.6
3 2	8 10.57	+19 18.6	2.072	2.894	13.0	21.9

30842 1991 GO_7 1 27.9 265°.86 4°.7/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.29	+ 5 18.7	1.962	2.729	15.3	20.0
1 2	8 58.91	+ 4 58.2	1.862	2.715	12.5	19.8
1 12	8 52.23	+ 4 53.5	1.784	2.702	9.2	19.5
1 22	8 43.79	+ 5 5.1	1.730	2.688	6.0	19.3
2 1	8 34.45	+ 5 31.9	1.705	2.674	4.7	19.2
2 11	8 25.32	+ 6 10.4	1.708	2.660	6.9	19.3
2 21	8 17.44	+ 6 56.1	1.738	2.646	10.5	19.5
3 2	8 11.67	+ 7 43.9	1.792	2.631	13.9	19.7

406834 2008 YE_{139} 1 27.9 304°.84 0°.9/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.07	+16 52.0	1.498	2.317	16.8	21.2
1 2	9 0.24	+17 41.1	1.416	2.312	12.9	20.9
1 12	8 53.42	+18 44.5	1.357	2.306	8.2	20.7
1 22	8 44.32	+19 56.5	1.322	2.302	3.1	20.3
2 1	8 34.11	+21 8.9	1.315	2.297	2.7	20.3
2 11	8 24.31	+22 13.8	1.335	2.292	7.9	20.6
2 21	8 16.32	+23 5.5	1.381	2.288	12.7	20.8
3 2	8 11.19	+23 41.6	1.448	2.283	16.9	21.1

166916 2003 EL_{17} 1 27.9 271°.97 3°.7/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.14	+ 7 16.3	1.630	2.415	17.2	19.9
1 2	9 0.17	+ 7 23.4	1.527	2.395	13.8	19.6
1 12	8 53.39	+ 7 50.8	1.444	2.375	9.8	19.3
1 22	8 44.35	+ 8 37.7	1.386	2.354	5.6	19.0
2 1	8 34.05	+ 9 41.0	1.356	2.333	3.9	18.9
2 11	8 23.85	+10 54.3	1.353	2.312	7.5	19.0
2 21	8 15.12	+12 10.3	1.376	2.291	12.2	19.2
3 2	8 8.98	+13 22.2	1.422	2.269	16.5	19.4

134760 2000 CT_{60} 1 27.9 45°.32 3°.2/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.74	+11 20.3	1.341	2.150	19.0	18.9
1 2	9 1.96	+10 56.5	1.287	2.171	14.8	18.7
1 12	8 54.22	+10 48.6	1.254	2.193	10.0	18.4
1 22	8 44.49	+10 55.0	1.244	2.216	5.2	18.2
2 1	8 34.12	+11 12.2	1.260	2.240	3.5	18.2
2 11	8 24.65	+11 35.3	1.303	2.263	7.5	18.5
2 21	8 17.30	+11 59.7	1.370	2.288	12.0	18.8
3 2	8 12.87	+12 21.6	1.460	2.312	15.8	19.1

279937 2001 SL_{74} 1 27.9 111°.63 3°.2/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.05	+ 6 8.7	2.730	3.482	11.8	21.2
1 2	8 57.10	+ 6 1.8	2.653	3.499	9.4	21.1
1 12	8 50.59	+ 6 6.4	2.600	3.517	6.8	20.9
1 22	8 43.03	+ 6 21.8	2.575	3.534	4.2	20.8
2 1	8 35.07	+ 6 46.3	2.580	3.550	3.2	20.7
2 11	8 27.45	+ 7 17.2	2.615	3.566	4.9	20.9
2 21	8 20.81	+ 7 51.3	2.680	3.582	7.5	21.1
3 2	8 15.68	+ 8 25.8	2.771	3.597	9.9	21.2

105851 2000 ST_{165} 1 27.9 173°.41 2°.8/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.72	+ 8 9.4	2.800	3.559	11.4	20.3
1 2	8 56.91	+ 7 55.3	2.708	3.561	9.0	20.1
1 12	8 50.53	+ 7 51.0	2.640	3.562	6.4	20.0
1 22	8 43.03	+ 7 55.8	2.600	3.563	3.8	19.8
2 1	8 35.06	+ 8 8.5	2.591	3.564	2.9	19.7
2 11	8 27.34	+ 8 26.9	2.612	3.565	4.8	19.9
2 21	8 20.54	+ 8 48.5	2.662	3.565	7.5	20.0
3 2	8 15.21	+ 9 10.7	2.739	3.565	10.0	20.2

499065 2009 DP_{132} 1 27.9 9°.08 4°.2/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.34	+31 31.5	2.188	2.993	12.7	21.1
1 2	9 3.27	+31 44.1	2.110	2.994	9.9	20.9
1 12	8 54.80	+31 52.5	2.057	2.994	6.8	20.8
1 22	8 44.68	+31 51.6	2.031	2.995	4.5	20.6
2 1	8 33.97	+31 37.4	2.034	2.997	4.9	20.6
2 11	8 23.87	+31 8.3	2.067	2.998	7.5	20.8
2 21	8 15.41	+30 25.7	2.127	3.000	10.6	21.0
3 2	8 9.32	+29 32.1	2.211	3.002	13.3	21.2

341545 2007 UF_3 1 27.9 167°.32 3°.9/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.75	+28 24.8	2.432	3.241	11.4	20.7
1 2	8 58.95	+29 24.8	2.355	3.242	8.8	20.5
1 12	8 52.06	+30 25.4	2.303	3.243	6.0	20.3
1 22	8 43.67	+31 21.0	2.279	3.244	4.0	20.2
2 1	8 34.62	+32 6.1	2.285	3.245	4.6	20.3
2 11	8 25.91	+32 37.1	2.320	3.246	7.1	20.4
2 21	8 18.45	+32 52.5	2.383	3.247	9.9	20.6
3 2	8 12.96	+32 53.3	2.469	3.247	12.4	20.8

98305 2000 SG_{243} 1 27.9 184°.77 3°.7/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.07	+25 54.3	1.814	2.625	14.7	20.3
1 2	9 4.36	+26 40.8	1.735	2.625	11.2	20.1
1 12	8 55.82	+27 30.1	1.680	2.625	7.4	19.9
1 22	8 45.17	+28 15.2	1.652	2.624	4.1	19.7
2 1	8 33.61	+28 49.1	1.653	2.623	4.6	19.7
2 11	8 22.58	+29 7.3	1.682	2.621	8.2	19.9
2 21	8 13.35	+29 8.8	1.738	2.619	12.0	20.1
3 2	8 6.85	+28 55.1	1.816	2.617	15.4	20.3

189177 2002 XW_{117} 1 27.9 64°.67 4°.2/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.52	+27 52.5	2.164	2.978	12.5	20.2
1 2	8 58.98	+29 4.1	2.094	2.985	9.5	20.0
1 12	8 52.17	+30 17.1	2.050	2.992	6.5	19.8
1 22	8 43.74	+31 24.7	2.033	2.999	4.4	19.7
2 1	8 34.60	+32 20.5	2.046	3.006	5.1	19.8
2 11	8 25.89	+33 0.2	2.088	3.014	7.8	19.9
2 21	8 18.59	+33 22.2	2.155	3.021	10.7	20.1
3 2	8 13.45	+33 27.5	2.246	3.028	13.4	20.3

272629 2005 WE_{66} 1 27.9 200°.67 1°.7/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.65	+20 55.7	1.964	2.774	13.7	21.3
1 2	8 59.96	+21 34.1	1.882	2.773	10.5	21.1
1 12	8 52.87	+22 19.1	1.824	2.772	6.7	20.8
1 22	8 44.02	+23 5.5	1.793	2.772	2.8	20.6
2 1	8 34.40	+23 47.8	1.792	2.771	2.8	20.6
2 11	8 25.17	+24 21.4	1.819	2.770	6.8	20.8
2 21	8 17.42	+24 43.5	1.874	2.769	10.6	21.0
3 2	8 11.94	+24 53.6	1.951	2.768	13.9	21.3

136665 1995 QB_9 1 27.9 246°.79 3°.7/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.92	+ 4 29.3	2.398	3.154	13.1	20.6
1 2	8 55.88	+ 4 35.3	2.304	3.151	10.6	20.4
1 12	8 50.05	+ 4 56.6	2.232	3.148	7.8	20.2
1 22	8 42.91	+ 5 32.4	2.187	3.145	5.0	20.0
2 1	8 35.17	+ 6 20.6	2.171	3.141	3.8	19.9
2 11	8 27.66	+ 7 17.2	2.185	3.138	5.6	20.0
2 21	8 21.15	+ 8 17.9	2.227	3.134	8.5	20.2
3 2	8 16.31	+ 9 18.2	2.294	3.131	11.4	20.4

46413 2002 GS_{87} 1 27.9 104°.60 2°.1/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.93	+10 11.8	1.752	2.539	16.1	19.5
1 2	9 0.90	+10 36.4	1.683	2.556	12.5	19.3
1 12	8 53.42	+11 16.9	1.636	2.572	8.4	19.1
1 22	8 44.21	+12 10.2	1.615	2.588	4.0	18.9
2 1	8 34.31	+13 11.0	1.622	2.604	2.5	18.8
2 11	8 24.97	+14 13.3	1.659	2.619	6.3	19.1
2 21	8 17.24	+15 11.6	1.723	2.633	10.4	19.3
3 2	8 11.91	+16 2.0	1.811	2.647	14.0	19.6

258767 2002 JL_{28} 1 27.9 239°.24 4°.0/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.44	+26 26.3	1.932	2.743	13.9	21.7
1 2	9 3.20	+27 26.0	1.840	2.730	10.7	21.5
1 12	8 55.17	+28 29.4	1.772	2.716	7.2	21.2
1 22	8 44.99	+29 29.6	1.731	2.702	4.3	21.0
2 1	8 33.71	+30 18.8	1.720	2.687	5.0	21.0
2 11	8 22.73	+30 51.7	1.737	2.671	8.4	21.2
2 21	8 13.33	+31 6.1	1.780	2.655	12.2	21.4
3 2	8 6.51	+31 3.1	1.847	2.639	15.5	21.6

61698 2000 QU_{132} 1 27.9 193°.47 1°.1/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.64	+18 31.7	1.924	2.725	14.3	20.4
1 2	9 2.31	+19 13.8	1.837	2.723	11.0	20.2
1 12	8 54.44	+20 5.2	1.774	2.721	7.0	19.9
1 22	8 44.65	+21 0.7	1.739	2.718	2.7	19.7
2 1	8 33.97	+21 54.3	1.733	2.714	2.4	19.6
2 11	8 23.66	+22 40.5	1.757	2.710	6.8	19.9
2 21	8 14.85	+23 15.7	1.809	2.705	10.8	20.1
3 2	8 8.43	+23 38.7	1.884	2.699	14.4	20.3

45474 2000 AW_{215} 1 27.9 51°.55 0°.9/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.60	+14 20.0	1.950	2.749	14.2	18.8
1 2	8 58.23	+14 35.7	1.875	2.757	10.9	18.6
1 12	8 51.66	+15 2.2	1.823	2.766	7.1	18.3
1 22	8 43.54	+15 36.2	1.798	2.776	3.0	18.1
2 1	8 34.78	+16 13.7	1.802	2.785	1.8	18.0
2 11	8 26.48	+16 50.4	1.835	2.794	5.8	18.3
2 21	8 19.59	+17 22.6	1.895	2.804	9.7	18.6
3 2	8 14.81	+17 48.0	1.980	2.814	13.0	18.8

98450 2000 US_{62} 1 27.9 55°.80 2°.7/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.89	+12 12.1	1.454	2.258	18.0	19.2
1 2	9 2.13	+11 53.3	1.384	2.266	14.1	19.0
1 12	8 54.45	+11 48.4	1.335	2.275	9.5	18.7
1 22	8 44.66	+11 55.9	1.310	2.284	4.7	18.5
2 1	8 34.03	+12 12.5	1.312	2.293	3.1	18.4
2 11	8 24.07	+12 33.7	1.341	2.302	7.4	18.7
2 21	8 16.06	+12 55.5	1.396	2.311	12.0	19.0
3 2	8 10.91	+13 14.3	1.473	2.320	16.0	19.2

142209 2002 RX_{62} 1 27.9 121°.24 0°.4/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.05	+17 15.1	2.101	2.895	13.5	20.6
1 2	9 1.41	+17 50.8	2.031	2.913	10.3	20.4
1 12	8 53.58	+18 34.7	1.986	2.931	6.5	20.2
1 22	8 44.24	+19 22.4	1.969	2.948	2.4	20.0
2 1	8 34.32	+20 8.9	1.982	2.964	1.9	20.0
2 11	8 24.91	+20 49.8	2.025	2.980	5.9	20.3
2 21	8 16.94	+21 22.2	2.097	2.995	9.5	20.5
3 2	8 11.10	+21 44.9	2.194	3.009	12.6	20.7

129612 1998 AS_2 1 27.9 259°.55 0°.1/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.11	+17 0.3	1.781	2.584	15.2	21.0
1 2	9 2.25	+17 16.1	1.680	2.566	11.8	20.7
1 12	8 54.61	+17 41.9	1.602	2.548	7.6	20.4
1 22	8 44.80	+18 14.0	1.551	2.530	2.9	20.1
2 1	8 33.86	+18 47.7	1.528	2.511	2.0	20.0
2 11	8 23.13	+19 17.9	1.534	2.491	7.0	20.2
2 21	8 13.93	+19 41.0	1.566	2.471	11.6	20.4
3 2	8 7.28	+19 55.1	1.622	2.451	15.7	20.7

433003 2012 QE_{39} 1 27.9 79°.92 8°.9/ 6.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 59.97	−14 10.1	2.458	3.101	15.5	21.0
1 2	8 55.81	−14 25.6	2.381	3.116	13.8	20.8
1 12	8 49.92	−14 16.4	2.322	3.131	11.9	20.7
1 22	8 42.85	−13 40.7	2.284	3.146	10.2	20.6
2 1	8 35.29	−12 38.7	2.272	3.161	9.1	20.6
2 11	8 28.07	−11 13.8	2.286	3.176	9.1	20.6
2 21	8 21.91	− 9 32.1	2.328	3.191	10.1	20.7
3 2	8 17.39	− 7 40.6	2.394	3.206	11.8	20.8

53705 2000 DH_{102} 1 27.9 211°.99 1°.0/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.63	+17 45.2	1.822	2.624	15.0	19.6
1 2	9 2.52	+18 32.2	1.731	2.618	11.5	19.4
1 12	8 54.70	+19 30.5	1.664	2.611	7.3	19.1
1 22	8 44.82	+20 34.6	1.624	2.603	2.8	18.8
2 1	8 33.90	+21 37.8	1.614	2.595	2.5	18.8
2 11	8 23.29	+22 33.7	1.633	2.586	7.1	19.1
2 21	8 14.23	+23 17.9	1.679	2.576	11.4	19.3
3 2	8 7.69	+23 48.8	1.748	2.566	15.2	19.5

4233 Pal′chikov 1 27.9 193°.72 1°.7/29.0 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.15	+11 40.2	2.066	2.847	14.2	18.4
1 2	9 0.94	+11 54.7	1.975	2.845	11.1	18.1
1 12	8 53.45	+12 21.6	1.907	2.843	7.4	17.9
1 22	8 44.27	+12 58.7	1.866	2.840	3.5	17.7
2 1	8 34.31	+13 42.1	1.854	2.836	2.2	17.6
2 11	8 24.65	+14 27.4	1.873	2.831	5.9	17.8
2 21	8 16.31	+15 10.4	1.920	2.826	9.8	18.0
3 2	8 10.08	+15 47.9	1.992	2.820	13.2	18.2

37708 1996 RX_3 1 27.9 144°.52 2°.9/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.88	+ 8 57.7	1.685	2.473	16.6	19.5
1 2	9 0.36	+ 9 9.1	1.604	2.476	13.1	19.3
1 12	8 53.25	+ 9 37.9	1.546	2.480	9.0	19.0
1 22	8 44.23	+10 22.1	1.512	2.483	4.8	18.8
2 1	8 34.36	+11 17.4	1.506	2.486	3.1	18.7
2 11	8 24.92	+12 17.7	1.529	2.489	6.7	18.9
2 21	8 17.07	+13 17.1	1.578	2.491	11.0	19.2
3 2	8 11.69	+14 10.7	1.651	2.493	14.8	19.4

241360 2007 XG_7 1 27.9 223°.74 0°.3/27.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.17	+17 49.5	2.755	3.545	10.8	22.2
1 2	8 57.43	+18 10.4	2.658	3.538	8.2	22.0
1 12	8 50.98	+18 37.2	2.586	3.529	5.2	21.8
1 22	8 43.28	+19 7.1	2.542	3.521	2.0	21.6
2 1	8 35.01	+19 37.0	2.530	3.512	1.5	21.5
2 11	8 26.96	+20 4.0	2.549	3.503	4.8	21.8
2 21	8 19.86	+20 25.7	2.596	3.494	7.9	21.9
3 2	8 14.33	+20 41.0	2.670	3.484	10.6	22.1

195754 2002 PZ_{104} 1 27.9 89°.07 3°.5/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.76	+ 7 15.6	2.212	2.979	13.8	20.5
1 2	8 58.05	+ 7 1.9	2.132	2.989	11.0	20.3
1 12	8 51.42	+ 7 1.3	2.076	2.999	7.8	20.1
1 22	8 43.44	+ 7 13.1	2.047	3.009	4.7	20.0
2 1	8 34.92	+ 7 35.6	2.046	3.019	3.6	19.9
2 11	8 26.78	+ 8 5.3	2.075	3.029	5.7	20.1
2 21	8 19.85	+ 8 38.9	2.132	3.039	8.9	20.3
3 2	8 14.77	+ 9 12.6	2.214	3.049	11.8	20.5

19589 Kirkland 1 27.9 156°.09 0°.1/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.92	+17 23.4	1.853	2.651	14.9	18.4
1 2	9 3.20	+17 29.7	1.773	2.656	11.4	18.2
1 12	8 54.94	+17 43.9	1.717	2.661	7.3	17.9
1 22	8 44.84	+18 2.5	1.687	2.666	2.8	17.7
2 1	8 33.98	+18 21.4	1.687	2.670	1.9	17.6
2 11	8 23.64	+18 36.8	1.716	2.673	6.4	17.9
2 21	8 14.95	+18 46.4	1.773	2.677	10.6	18.2
3 2	8 8.71	+18 49.3	1.854	2.679	14.1	18.4

323154 2003 FD 1 27.9 319°.21 12°.9/19.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.62	+51 6.0	1.786	2.564	16.2	20.2
1 2	9 12.28	+52 42.6	1.731	2.559	14.5	20.0
1 12	9 1.55	+54 1.2	1.697	2.555	13.2	20.0
1 22	8 47.51	+54 49.2	1.685	2.551	12.9	19.9
2 1	8 32.19	+54 57.7	1.696	2.547	13.7	20.0
2 11	8 18.04	+54 24.7	1.729	2.543	15.3	20.1
2 21	8 7.07	+53 15.7	1.783	2.540	17.2	20.2
3 2	8 0.40	+51 39.4	1.853	2.536	19.1	20.3

413953 2007 BP_{40} 1 27.9 78°.95 0°.3/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.63	+17 56.1	1.794	2.596	15.2	20.6
1 2	9 2.92	+17 46.4	1.724	2.609	11.6	20.4
1 12	8 54.68	+17 43.2	1.677	2.622	7.4	20.2
1 22	8 44.71	+17 43.7	1.656	2.635	2.9	19.9
2 1	8 34.12	+17 44.6	1.665	2.647	1.9	19.8
2 11	8 24.19	+17 43.3	1.702	2.660	6.4	20.2
2 21	8 15.99	+17 37.9	1.767	2.673	10.5	20.4
3 2	8 10.27	+17 28.1	1.856	2.686	13.9	20.7

245931 2006 RW_{30} 1 27.9 141°.56 0°.2/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.48	+17 13.7	2.575	3.365	11.4	20.6
1 2	8 58.41	+17 17.1	2.491	3.369	8.7	20.4
1 12	8 51.57	+17 26.1	2.431	3.374	5.6	20.2
1 22	8 43.50	+17 38.2	2.400	3.378	2.2	20.0
2 1	8 34.92	+17 51.1	2.399	3.382	1.4	19.9
2 11	8 26.69	+18 2.1	2.429	3.386	4.8	20.2
2 21	8 19.55	+18 9.6	2.488	3.390	8.0	20.4
3 2	8 14.10	+18 12.4	2.573	3.393	10.8	20.6

372889 2011 AC_9 1 27.9 232°.73 1°.7/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.92	+13 17.0	2.209	2.991	13.3	21.0
1 2	9 0.66	+13 6.2	2.110	2.982	10.4	20.8
1 12	8 53.24	+13 4.2	2.035	2.972	7.0	20.5
1 22	8 44.21	+13 9.5	1.988	2.962	3.3	20.3
2 1	8 34.43	+13 19.7	1.970	2.951	2.1	20.2
2 11	8 24.91	+13 32.3	1.983	2.940	5.7	20.4
2 21	8 16.62	+13 44.6	2.024	2.929	9.4	20.6
3 2	8 10.33	+13 54.6	2.090	2.917	12.7	20.8

146618 2001 TV_{226} 1 27.9 156°.60 3°.8/25.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.89	+26 35.0	2.242	3.048	12.4	20.6
1 2	9 1.50	+27 51.0	2.168	3.055	9.5	20.4
1 12	8 53.81	+29 9.5	2.119	3.061	6.3	20.2
1 22	8 44.43	+30 23.8	2.099	3.067	4.0	20.1
2 1	8 34.30	+31 27.2	2.110	3.073	4.7	20.2
2 11	8 24.55	+32 14.8	2.150	3.077	7.5	20.3
2 21	8 16.18	+32 45.0	2.218	3.082	10.5	20.5
3 2	8 10.00	+32 58.4	2.309	3.085	13.2	20.7

201015 2002 CF_{228} 1 27.9 316°.95 3°.6/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.07	+10 7.6	1.423	2.228	18.3	20.1
1 2	9 0.32	+ 9 48.2	1.338	2.219	14.5	19.8
1 12	8 53.56	+ 9 45.4	1.272	2.210	10.1	19.5
1 22	8 44.47	+ 9 58.6	1.229	2.201	5.5	19.2
2 1	8 34.23	+10 25.1	1.213	2.192	3.9	19.1
2 11	8 24.38	+11 0.0	1.223	2.184	7.9	19.3
2 21	8 16.33	+11 37.7	1.258	2.176	12.7	19.5
3 2	8 11.16	+12 13.3	1.314	2.169	17.1	19.8

136991 1998 SA_{36} 1 27.9 128°.75 1°.8/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.22	+21 42.3	2.032	2.834	13.6	21.0
1 2	9 2.47	+22 18.5	1.961	2.847	10.3	20.8
1 12	8 54.36	+22 59.5	1.914	2.860	6.6	20.6
1 22	8 44.61	+23 40.1	1.895	2.873	2.8	20.4
2 1	8 34.22	+24 15.2	1.907	2.885	2.9	20.4
2 11	8 24.37	+24 40.8	1.948	2.896	6.6	20.7
2 21	8 16.08	+24 55.0	2.017	2.907	10.2	20.9
3 2	8 10.08	+24 58.1	2.109	2.918	13.3	21.1

323916 2005 TV_{81} 1 27.9 244°.01 2°.0/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.09	+22 46.0	2.064	2.869	13.3	21.5
1 2	9 1.86	+23 13.0	1.970	2.858	10.2	21.3
1 12	8 54.16	+23 44.3	1.899	2.846	6.6	21.1
1 22	8 44.61	+24 15.2	1.856	2.833	2.9	20.8
2 1	8 34.17	+24 40.6	1.843	2.821	3.0	20.8
2 11	8 24.05	+24 56.6	1.859	2.808	6.8	21.0
2 21	8 15.36	+25 1.4	1.903	2.794	10.6	21.2
3 2	8 8.95	+24 54.9	1.970	2.780	14.0	21.4

77910 2001 TV_{235} 1 27.9 289°.22 0°.2/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 57.61	+15 20.8	3.142	3.929	9.6	19.3
1 2	8 53.82	+15 50.6	3.042	3.919	7.4	19.1
1 12	8 48.62	+16 27.4	2.967	3.909	4.7	18.9
1 22	8 42.40	+17 8.9	2.921	3.899	1.9	18.7
2 1	8 35.70	+17 52.3	2.906	3.889	1.2	18.6
2 11	8 29.15	+18 34.6	2.922	3.879	4.1	18.8
2 21	8 23.36	+19 13.2	2.967	3.869	6.9	19.0
3 2	8 18.83	+19 46.2	3.039	3.859	9.3	19.2

337530 2001 SV_{194} 1 27.9 137°.88 3°.4/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.42	+27 55.4	2.370	3.176	11.8	20.6
1 2	9 0.20	+28 29.7	2.292	3.179	9.0	20.4
1 12	8 52.86	+29 3.7	2.239	3.181	6.0	20.2
1 22	8 44.04	+29 32.6	2.214	3.183	3.6	20.1
2 1	8 34.61	+29 51.9	2.218	3.185	4.1	20.1
2 11	8 25.62	+29 58.8	2.253	3.187	6.8	20.3
2 21	8 17.96	+29 52.8	2.314	3.189	9.7	20.5
3 2	8 12.33	+29 34.8	2.400	3.191	12.4	20.7

240538 2004 GX_{46} 1 27.9 194°.34 0°.2/28.1 17

12 23	9 1.59	+16 11.0	2.581	3.372	11.4	21.3
1 2	8 57.06	+16 30.6	2.492	3.371	8.7	21.1
1 12	8 50.78	+16 57.5	2.427	3.370	5.6	20.9
1 22	8 43.24	+17 28.8	2.391	3.369	2.2	20.7
2 1	8 35.15	+18 1.5	2.385	3.367	1.4	20.6
2 11	8 27.32	+18 32.3	2.409	3.366	4.9	20.9
2 21	8 20.52	+18 58.7	2.463	3.364	8.1	21.1
3 2	8 15.36	+19 18.9	2.542	3.363	10.9	21.2

298688 2004 DQ_{46} 1 27.9 275°.31 2°.1/29.4 17

12 23	9 1.35	+10 30.6	2.425	3.202	12.4	21.3
1 2	8 57.08	+10 32.6	2.318	3.185	9.8	21.1
1 12	8 50.92	+10 45.5	2.235	3.168	6.7	20.9
1 22	8 43.34	+11 8.1	2.180	3.151	3.5	20.6
2 1	8 35.06	+11 38.0	2.154	3.134	2.4	20.5
2 11	8 26.93	+12 12.1	2.159	3.116	5.2	20.7
2 21	8 19.80	+12 46.9	2.191	3.099	8.6	20.8
3 2	8 14.36	+13 19.6	2.250	3.082	11.7	21.0

451906 2014 KV_{8} 1 27.9 70°.23 5°.9/25.4 18

12 23	9 11.40	+28 58.0	1.348	2.177	17.8	21.2
1 2	9 6.10	+30 0.2	1.293	2.191	13.7	20.9
1 12	8 57.23	+31 2.2	1.260	2.204	9.4	20.7
1 22	8 45.81	+31 53.7	1.251	2.218	6.2	20.6
2 1	8 33.49	+32 25.3	1.268	2.232	6.9	20.7
2 11	8 22.19	+32 32.7	1.311	2.246	10.6	20.9
2 21	8 13.45	+32 16.9	1.378	2.260	14.5	21.2
3 2	8 8.21	+31 42.3	1.465	2.274	18.1	21.4

8085 1989 CD_{8} 1 27.9 76°.50 3°.4/29.9 18

12 23	9 3.58	+ 8 20.4	2.165	2.937	13.9	17.1
1 2	8 58.71	+ 7 59.3	2.088	2.948	11.0	16.9
1 12	8 51.87	+ 7 50.5	2.034	2.959	7.8	16.8
1 22	8 43.66	+ 7 53.4	2.006	2.970	4.6	16.6
2 1	8 34.91	+ 8 6.2	2.007	2.981	3.5	16.5
2 11	8 26.57	+ 8 26.1	2.038	2.992	5.8	16.7
2 21	8 19.49	+ 8 49.8	2.096	3.004	9.0	16.9
3 2	8 14.32	+ 9 14.3	2.180	3.015	12.0	17.1

416882 2005 QO_{56} 1 27.9 168°.68 7°.8/ 4.5 18

12 23	9 3.56	−11 21.5	2.462	3.117	15.2	21.7
1 2	8 58.61	−11 10.8	2.367	3.122	13.3	21.5
1 12	8 51.80	−10 35.1	2.292	3.126	11.2	21.4
1 22	8 43.65	− 9 33.0	2.240	3.129	9.2	21.2
2 1	8 34.90	− 8 5.5	2.216	3.132	7.9	21.2
2 11	8 26.40	− 6 17.0	2.221	3.134	8.2	21.2
2 21	8 18.97	− 4 14.4	2.256	3.135	9.7	21.3
3 2	8 13.25	− 2 5.6	2.317	3.136	11.9	21.4

445057 2008 SL_{139} 1 27.9 93°.42 4°.4/25.9 18

12 23	9 12.64	+26 47.0	1.481	2.301	16.9	21.5
1 2	9 6.64	+27 35.4	1.424	2.319	12.9	21.3
1 12	8 57.37	+28 24.9	1.390	2.336	8.6	21.0
1 22	8 45.82	+29 7.2	1.381	2.352	4.9	20.9
2 1	8 33.50	+29 34.4	1.399	2.369	5.4	20.9
2 11	8 22.14	+29 42.5	1.445	2.385	9.2	21.2
2 21	8 13.13	+29 31.8	1.515	2.401	13.2	21.5
3 2	8 7.35	+29 5.5	1.608	2.417	16.7	21.7

243787 2000 SF_{59} 1 27.9 108°.91 2°.6/29.5 18

12 23	9 8.35	+ 9 40.8	1.829	2.607	15.9	20.8
1 2	9 2.59	+ 9 49.6	1.763	2.630	12.4	20.6
1 12	8 54.44	+10 13.1	1.719	2.652	8.4	20.4
1 22	8 44.65	+10 48.8	1.702	2.673	4.3	20.2
2 1	8 34.27	+11 32.8	1.714	2.693	2.8	20.1
2 11	8 24.50	+12 19.9	1.755	2.713	6.2	20.4
2 21	8 16.36	+13 5.5	1.824	2.732	10.1	20.6
3 2	8 10.57	+13 46.2	1.918	2.751	13.4	20.9

498345 2007 VK_{273} 1 27.9 44°.14 2°.3/26.5 18

12 23	9 2.78	+22 14.6	1.965	2.780	13.5	20.8
1 2	8 58.44	+23 1.8	1.902	2.795	10.2	20.6
1 12	8 51.84	+23 53.8	1.862	2.811	6.5	20.4
1 22	8 43.68	+24 45.3	1.850	2.827	3.0	20.2
2 1	8 34.93	+25 30.5	1.867	2.843	3.2	20.2
2 11	8 26.71	+26 5.1	1.912	2.860	6.7	20.5
2 21	8 19.98	+26 27.0	1.985	2.877	10.2	20.7
3 2	8 15.44	+26 36.0	2.080	2.894	13.2	21.0

381283 2007 TL_{380} 1 27.9 47°.68 0°.4/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 1.99	+16 39.3	1.946	2.752	14.0	20.3
1 2	8 57.78	+17 20.1	1.881	2.770	10.6	20.2
1 12	8 51.39	+18 10.5	1.840	2.787	6.7	20.0
1 22	8 43.51	+19 5.7	1.826	2.806	2.5	19.7
2 1	8 35.06	+20 0.6	1.842	2.824	1.9	19.7
2 11	8 27.11	+20 49.9	1.886	2.843	6.0	20.0
2 21	8 20.58	+21 30.3	1.957	2.862	9.7	20.3
3 2	8 16.16	+21 59.9	2.053	2.881	12.9	20.5

98318 2000 SR_{263} 1 27.9 337°.16 1°.3/28.5 18

12 23	9 2.66	+14 45.8	1.253	2.081	18.9	18.8
1 2	8 59.66	+14 45.5	1.173	2.071	14.7	18.6
1 12	8 53.36	+15 0.0	1.112	2.061	9.7	18.2
1 22	8 44.48	+15 26.5	1.074	2.052	4.1	17.9
2 1	8 34.34	+15 59.7	1.061	2.044	2.5	17.8
2 11	8 24.67	+16 33.5	1.073	2.037	8.2	18.1
2 21	8 17.06	+17 2.4	1.109	2.031	13.7	18.3
3 2	8 12.66	+17 22.8	1.165	2.026	18.4	18.6

419772 2010 VO_{146} 1 27.9 241°.46 3°.0/26.1 18

12 23	9 5.51	+23 3.3	1.899	2.712	14.0	21.2
1 2	9 0.91	+24 3.7	1.812	2.705	10.7	20.9
1 12	8 53.69	+25 10.8	1.749	2.697	6.9	20.7
1 22	8 44.50	+26 18.1	1.714	2.689	3.5	20.5
2 1	8 34.34	+27 18.3	1.708	2.681	4.0	20.5
2 11	8 24.50	+28 5.5	1.730	2.673	7.7	20.7
2 21	8 16.17	+28 36.5	1.779	2.665	11.6	20.9
3 2	8 10.29	+28 51.3	1.851	2.656	15.0	21.1

2075 Martinez 1 27.9 10°.10 6°.8/22.2 18

12 23	8 57.20	+15 58.1	0.944	1.802	21.3	15.0
1 2	8 56.50	+20 19.4	0.886	1.805	15.9	14.7
1 12	8 51.93	+25 18.8	0.852	1.810	10.2	14.4
1 22	8 44.11	+30 28.1	0.844	1.818	6.8	14.2
2 1	8 34.54	+35 12.0	0.866	1.827	9.8	14.4
2 11	8 25.45	+39 2.6	0.913	1.839	15.1	14.8
2 21	8 18.96	+41 49.1	0.982	1.852	20.0	15.1
3 2	8 16.61	+43 35.0	1.067	1.868	23.9	15.4

366277 2013 AQ_{73} 1 27.9 301°.44 4°.3/26.4 18

12 23	9 10.27	+26 57.2	1.403	2.230	17.3	20.6
1 2	9 5.46	+27 22.4	1.320	2.218	13.4	20.3
1 12	8 57.06	+27 49.0	1.259	2.207	9.0	20.0
1 22	8 45.89	+28 9.3	1.222	2.195	4.9	19.8
2 1	8 33.42	+28 15.5	1.211	2.184	5.4	19.8
2 11	8 21.57	+28 3.2	1.227	2.173	9.8	20.0
2 21	8 12.00	+27 32.6	1.266	2.163	14.5	20.2
3 2	8 5.90	+26 46.8	1.327	2.153	18.7	20.4

207807 2007 TT_{243} 1 27.9 96°.40 1°.5/27.3 18

12 23	9 9.56	+21 14.2	1.617	2.430	16.1	20.8
1 2	9 4.05	+21 28.0	1.546	2.438	12.2	20.6
1 12	8 55.65	+21 47.2	1.498	2.446	7.8	20.4
1 22	8 45.20	+22 6.9	1.476	2.455	3.1	20.1
2 1	8 33.96	+22 21.8	1.482	2.463	2.8	20.1
2 11	8 23.41	+22 28.0	1.516	2.471	7.4	20.4
2 21	8 14.82	+22 24.3	1.577	2.479	11.8	20.7
3 2	8 9.04	+22 10.9	1.660	2.486	15.5	20.9

112806 2002 QT_{2} 1 27.9 98°.09 1°.4/28.7 18

12 23	9 6.38	+13 13.1	1.764	2.559	15.7	20.2
1 2	9 1.30	+13 24.1	1.694	2.573	12.1	20.0
1 12	8 53.74	+13 47.3	1.645	2.586	7.9	19.8
1 22	8 44.44	+14 19.9	1.624	2.600	3.5	19.6
2 1	8 34.46	+14 57.4	1.630	2.613	2.1	19.5
2 11	8 25.05	+15 34.9	1.666	2.625	6.3	19.8
2 21	8 17.26	+16 8.6	1.729	2.638	10.4	20.1
3 2	8 11.89	+16 35.7	1.815	2.650	14.0	20.3

402969 2007 UY_{47} 1 27.9 136°.58 1°.3/27.2 18

12 23	9 8.28	+19 36.8	1.975	2.775	14.0	22.1
1 2	9 2.60	+20 16.0	1.902	2.788	10.7	21.9
1 12	8 54.52	+21 2.2	1.854	2.800	6.7	21.7
1 22	8 44.74	+21 50.3	1.833	2.811	2.6	21.4
2 1	8 34.27	+22 34.8	1.842	2.822	2.5	21.5
2 11	8 24.31	+23 11.0	1.881	2.832	6.5	21.7
2 21	8 15.92	+23 36.4	1.947	2.842	10.3	22.0
3 2	8 9.85	+23 50.4	2.038	2.851	13.5	22.2

319010 2005 UX_{488} 1 27.9 139°.27 6°.6/24.2 18

12 23	9 12.45	+36 33.1	2.082	2.883	13.4	20.9
1 2	9 6.00	+37 27.3	2.016	2.890	10.7	20.7
1 12	8 56.78	+38 14.6	1.974	2.897	8.2	20.6
1 22	8 45.60	+38 47.5	1.959	2.903	6.7	20.5
2 1	8 33.71	+39 0.0	1.972	2.909	7.3	20.5
2 11	8 22.54	+38 49.6	2.014	2.915	9.5	20.7
2 21	8 13.27	+38 18.0	2.080	2.920	12.2	20.8
3 2	8 6.73	+37 29.4	2.169	2.925	14.6	21.0

184740 2005 SS_{217} 1 27.9 261°.23 6°.6/ 1.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.03	− 1 2.8	2.030	2.766	15.8	19.8
1 2	8 57.94	− 1 23.5	1.929	2.754	13.3	19.6
1 12	8 51.67	− 1 23.9	1.849	2.742	10.5	19.4
1 22	8 43.72	− 1 2.4	1.793	2.729	7.8	19.2
2 1	8 34.91	− 0 19.5	1.764	2.716	6.6	19.1
2 11	8 26.28	+ 0 41.3	1.762	2.703	7.8	19.1
2 21	8 18.82	+ 1 54.4	1.788	2.690	10.6	19.3
3 2	8 13.35	+ 3 13.0	1.838	2.677	13.7	19.4

327341 2005 UR_{173} 1 27.9 146°.27 0°.5/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.96	+15 20.1	2.061	2.855	13.7	21.6
1 2	9 0.01	+15 36.3	1.979	2.860	10.6	21.4
1 12	8 52.85	+16 1.7	1.921	2.864	6.8	21.2
1 22	8 44.11	+16 33.5	1.891	2.868	2.7	21.0
2 1	8 34.70	+17 7.6	1.889	2.872	1.7	20.9
2 11	8 25.69	+17 39.9	1.918	2.876	5.8	21.2
2 21	8 18.03	+18 7.3	1.974	2.880	9.6	21.4
3 2	8 12.48	+18 27.9	2.055	2.883	12.9	21.6

450749 2007 HY_{74} 1 27.9 197°.80 4°.5/25.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.00	+26 47.1	1.735	2.550	15.1	21.8
1 2	9 4.61	+27 52.4	1.656	2.548	11.6	21.5
1 12	8 56.20	+29 1.0	1.601	2.545	7.8	21.3
1 22	8 45.50	+30 4.9	1.572	2.542	4.8	21.1
2 1	8 33.74	+30 55.4	1.572	2.538	5.5	21.2
2 11	8 22.47	+31 27.0	1.600	2.534	9.1	21.3
2 21	8 13.07	+31 38.2	1.654	2.530	12.9	21.6
3 2	8 6.54	+31 30.6	1.729	2.524	16.3	21.8

239254 2006 UL_{323} 1 27.9 183°.79 2°.8/30.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.32	+ 6 43.3	2.594	3.355	12.1	21.3
1 2	8 56.08	+ 6 54.8	2.501	3.355	9.7	21.2
1 12	8 50.17	+ 7 19.2	2.432	3.354	6.9	21.0
1 22	8 43.06	+ 7 55.4	2.391	3.354	4.1	20.8
2 1	8 35.41	+ 8 40.9	2.379	3.354	2.9	20.7
2 11	8 27.99	+ 9 32.1	2.397	3.353	5.0	20.8
2 21	8 21.52	+10 25.2	2.445	3.352	7.9	21.0
3 2	8 16.59	+11 16.6	2.519	3.351	10.6	21.2

270694 2002 QQ_{59} 1 27.9 123°.09 4°.0/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.18	+ 4 26.0	2.253	3.010	13.8	20.9
1 2	8 56.95	+ 4 24.6	2.166	3.013	11.2	20.8
1 12	8 50.82	+ 4 38.9	2.101	3.016	8.2	20.6
1 22	8 43.33	+ 5 8.4	2.063	3.019	5.3	20.4
2 1	8 35.23	+ 5 50.8	2.053	3.022	4.1	20.3
2 11	8 27.43	+ 6 42.3	2.072	3.025	5.9	20.5
2 21	8 20.74	+ 7 38.4	2.120	3.027	8.9	20.6
3 2	8 15.83	+ 8 34.5	2.193	3.030	11.8	20.8

369639 2011 ED_{45} 1 27.9 62°.66 3°.7/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.51	+ 5 54.3	1.825	2.600	16.0	20.9
1 2	8 58.24	+ 6 6.1	1.757	2.618	12.7	20.8
1 12	8 51.74	+ 6 36.3	1.710	2.635	9.0	20.6
1 22	8 43.69	+ 7 23.0	1.688	2.653	5.3	20.4
2 1	8 35.03	+ 8 22.4	1.695	2.670	3.8	20.3
2 11	8 26.87	+ 9 28.8	1.730	2.688	6.3	20.5
2 21	8 20.16	+10 36.0	1.793	2.706	9.9	20.8
3 2	8 15.61	+11 39.0	1.880	2.724	13.2	21.0

188710 2005 TR_{101} 1 27.9 161°.92 1°.1/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.45	+18 13.1	1.854	2.653	14.9	21.2
1 2	9 3.74	+19 0.1	1.775	2.660	11.3	21.0
1 12	8 55.40	+19 56.7	1.721	2.666	7.2	20.7
1 22	8 45.14	+20 57.4	1.693	2.672	2.8	20.5
2 1	8 34.03	+21 55.5	1.696	2.677	2.5	20.5
2 11	8 23.38	+22 45.4	1.728	2.681	6.9	20.7
2 21	8 14.37	+23 23.4	1.788	2.684	11.0	21.0
3 2	8 7.87	+23 48.5	1.872	2.686	14.5	21.2

491249 2011 UC_{237} 1 27.9 139°.20 0°.8/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.17	+18 44.0	1.931	2.729	14.4	22.3
1 2	9 3.32	+19 13.5	1.857	2.741	11.0	22.1
1 12	8 55.00	+19 50.4	1.807	2.753	7.0	21.9
1 22	8 44.94	+20 30.1	1.785	2.764	2.6	21.6
2 1	8 34.19	+21 7.5	1.793	2.774	2.2	21.6
2 11	8 23.98	+21 38.0	1.830	2.784	6.4	21.9
2 21	8 15.38	+21 59.1	1.896	2.793	10.3	22.2
3 2	8 9.16	+22 10.3	1.985	2.802	13.7	22.4

304846 2007 RM_{49} 1 27.9 39°.04 2°.0/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.25	+21 20.5	1.341	2.170	17.9	21.2
1 2	9 2.77	+21 43.8	1.279	2.180	13.6	20.9
1 12	8 55.06	+22 14.2	1.239	2.190	8.6	20.7
1 22	8 45.04	+22 45.5	1.222	2.201	3.5	20.4
2 1	8 34.16	+23 10.8	1.232	2.212	3.4	20.4
2 11	8 24.11	+23 25.1	1.268	2.224	8.3	20.7
2 21	8 16.31	+23 26.6	1.329	2.237	13.1	21.0
3 2	8 11.65	+23 15.9	1.411	2.250	17.0	21.3

511758 2015 DF_{175} 1 27.9 276°.58 4°.7/30.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 1.84	+ 3 38.5	2.457	3.204	13.1	20.9
1 2	8 57.41	+ 3 6.6	2.351	3.189	10.8	20.8
1 12	8 51.14	+ 2 47.5	2.268	3.174	8.2	20.6
1 22	8 43.49	+ 2 42.2	2.211	3.159	5.7	20.4
2 1	8 35.15	+ 2 50.4	2.183	3.144	4.8	20.3
2 11	8 26.97	+ 3 10.0	2.184	3.128	6.3	20.4
2 21	8 19.76	+ 3 38.1	2.213	3.113	8.9	20.5
3 2	8 14.19	+ 4 11.0	2.267	3.098	11.7	20.6

413684 2005 WL_{173} 1 27.9 60°.06 1°.7/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.62	+20 6.6	1.685	2.500	15.4	21.5
1 2	9 0.86	+20 52.5	1.627	2.520	11.6	21.3
1 12	8 53.51	+21 45.9	1.592	2.541	7.3	21.1
1 22	8 44.38	+22 40.7	1.583	2.561	3.0	20.8
2 1	8 34.62	+23 30.2	1.603	2.582	3.0	20.9
2 11	8 25.54	+24 9.4	1.650	2.603	7.1	21.2
2 21	8 18.23	+24 35.5	1.725	2.624	11.1	21.5
3 2	8 13.46	+24 48.3	1.822	2.645	14.5	21.7

86709 2000 GR_{5} 1 27.9 216°.70 2°.0/29.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.85	+12 0.1	1.796	2.584	15.7	20.2
1 2	9 2.67	+12 1.7	1.703	2.577	12.4	19.9
1 12	8 54.83	+12 16.3	1.632	2.569	8.3	19.7
1 22	8 44.99	+12 42.0	1.587	2.561	4.0	19.4
2 1	8 34.15	+13 15.2	1.571	2.553	2.5	19.3
2 11	8 23.63	+13 51.3	1.585	2.543	6.7	19.5
2 21	8 14.63	+14 26.0	1.625	2.534	11.0	19.8
3 2	8 8.10	+14 56.0	1.689	2.523	14.9	20.0

389886 2012 SS_{61} 1 27.9 147°.56 1°.7/29.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.79	+10 52.7	2.659	3.431	11.6	21.4
1 2	8 57.11	+11 3.7	2.573	3.438	9.0	21.2
1 12	8 50.79	+11 24.5	2.511	3.444	6.1	21.1
1 22	8 43.30	+11 53.4	2.478	3.450	3.1	20.9
2 1	8 35.33	+12 27.8	2.475	3.455	1.9	20.8
2 11	8 27.63	+13 4.6	2.503	3.461	4.6	21.0
2 21	8 20.92	+13 40.6	2.560	3.466	7.6	21.2
3 2	8 15.76	+14 13.4	2.643	3.470	10.3	21.4

424861 2008 UH_{358} 1 27.9 46°.90 2°.3/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.65	+23 14.9	1.739	2.556	15.0	20.8
1 2	9 1.50	+23 40.2	1.685	2.579	11.3	20.6
1 12	8 53.82	+24 8.6	1.654	2.603	7.2	20.4
1 22	8 44.47	+24 34.9	1.650	2.627	3.2	20.2
2 1	8 34.61	+24 54.1	1.674	2.652	3.3	20.3
2 11	8 25.52	+25 2.7	1.726	2.677	7.1	20.5
2 21	8 18.24	+25 0.0	1.805	2.702	10.8	20.8
3 2	8 13.48	+24 46.7	1.906	2.727	14.0	21.1

194059 2001 SY_{123} 1 27.9 179°.01 0°.5/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.39	+15 48.0	1.780	2.576	15.5	21.6
1 2	9 3.77	+15 58.2	1.696	2.578	12.0	21.3
1 12	8 55.48	+16 18.4	1.636	2.579	7.8	21.1
1 22	8 45.20	+16 45.3	1.601	2.579	3.1	20.8
2 1	8 34.05	+17 14.3	1.596	2.579	1.9	20.7
2 11	8 23.36	+17 41.0	1.621	2.578	6.6	21.0
2 21	8 14.33	+18 2.1	1.672	2.577	11.0	21.3
3 2	8 7.85	+18 16.0	1.747	2.575	14.8	21.5

236000 2005 GK_{22} 1 28.0 19°.47 0°.7/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.16	+16 48.7	2.003	2.810	13.6	19.9
1 2	8 57.30	+17 41.3	1.923	2.812	10.4	19.7
1 12	8 51.23	+18 44.5	1.867	2.814	6.6	19.5
1 22	8 43.56	+19 53.7	1.838	2.817	2.5	19.2
2 1	8 35.17	+21 2.7	1.838	2.820	2.1	19.2
2 11	8 27.12	+22 5.7	1.868	2.823	6.2	19.5
2 21	8 20.38	+22 58.6	1.925	2.827	10.0	19.7
3 2	8 15.72	+23 39.0	2.006	2.831	13.3	19.9

371680 2007 DG_{29} 1 28.0 319°.61 8°.1/24.6 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.70	+36 35.3	1.557	2.376	16.3	20.3
1 2	9 6.63	+37 17.4	1.472	2.357	13.2	20.1
1 12	8 57.87	+37 52.2	1.408	2.338	10.1	19.8
1 22	8 46.26	+38 9.4	1.369	2.320	8.2	19.7
2 1	8 33.36	+38 0.4	1.356	2.302	8.9	19.7
2 11	8 21.12	+37 21.8	1.368	2.285	11.8	19.8
2 21	8 11.30	+36 16.1	1.403	2.268	15.4	20.0
3 2	8 5.04	+34 49.9	1.459	2.253	18.8	20.1

36912 2000 SA_{188} 1 28.0 102°.82 1°.7/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.35	+11 26.0	1.980	2.768	14.4	19.3
1 2	8 58.86	+11 45.7	1.901	2.776	11.2	19.1
1 12	8 52.17	+12 18.6	1.845	2.783	7.5	18.9
1 22	8 43.91	+13 2.0	1.816	2.790	3.5	18.7
2 1	8 34.97	+13 51.9	1.815	2.797	2.1	18.6
2 11	8 26.44	+14 43.1	1.845	2.804	5.8	18.8
2 21	8 19.26	+15 31.3	1.901	2.811	9.6	19.1
3 2	8 14.17	+16 13.2	1.982	2.818	13.0	19.3