2020	α_{2000}	δ_{2000}	Δ	r	β	V
432297 2009 SO_{280}		10 29.9 22°.39 0°.3/30.1 18				
	h m	° ′			°	m
9 28	2 45.12	+13 57.2	1.149	2.033	17.7	19.8
10 8	2 39.25	+14 15.0	1.098	2.039	12.9	19.5
10 18	2 30.39	+14 23.0	1.067	2.046	7.3	19.2
10 28	2 19.74	+14 23.3	1.061	2.054	1.3	18.9
11 7	2 8.99	+14 20.1	1.079	2.062	4.7	19.1
11 17	1 59.75	+14 18.4	1.122	2.072	10.3	19.5
11 27	1 53.31	+14 23.8	1.187	2.082	15.2	19.8
12 7	1 50.30	+14 39.7	1.272	2.093	19.2	20.1
120231 2004 FF_{64}		10 29.9 82°.97 3°.7/26.6 18				
9 28	2 38.91	+ 6 44.4	1.919	2.798	11.9	19.7
10 8	2 33.71	+ 5 23.7	1.870	2.810	8.5	19.5
10 18	2 26.86	+ 4 0.5	1.847	2.822	5.2	19.3
10 28	2 19.14	+ 2 41.4	1.851	2.834	3.7	19.2
11 7	2 11.46	+ 1 33.2	1.885	2.846	6.0	19.4
11 17	2 4.69	+ 0 41.1	1.945	2.858	9.3	19.6
11 27	1 59.53	+ 0 8.2	2.031	2.869	12.4	19.9
12 7	1 56.42	− 0 5.0	2.137	2.881	15.0	20.1
261494 2005 WM_{11}		10 29.9 260°.32 1°.2/31.1 18				
9 28	2 39.12	+19 53.1	2.106	2.955	12.2	20.7
10 8	2 33.96	+19 20.3	2.033	2.955	9.0	20.5
10 18	2 27.08	+18 34.6	1.984	2.954	5.4	20.3
10 28	2 19.20	+17 38.9	1.963	2.954	1.7	20.0
11 7	2 11.22	+16 37.7	1.971	2.954	3.0	20.1
11 17	2 4.03	+15 36.6	2.008	2.953	6.8	20.4
11 27	1 58.41	+14 41.5	2.072	2.953	10.3	20.6
12 7	1 54.87	+13 57.0	2.159	2.953	13.3	20.8
18578 1997 XP		10 29.9 48°.06 4°.7/28.1 18				
9 28	2 47.87	+ 4 20.7	1.056	1.950	18.2	17.2
10 8	2 40.97	+ 4 5.3	1.023	1.968	13.1	17.0
10 18	2 31.15	+ 3 52.1	1.011	1.988	7.8	16.8
10 28	2 19.86	+ 3 47.4	1.022	2.008	4.7	16.7
11 7	2 8.83	+ 3 56.3	1.057	2.029	7.6	16.9
11 17	1 59.64	+ 4 21.4	1.117	2.050	12.4	17.2
11 27	1 53.39	+ 5 3.2	1.198	2.072	16.7	17.6
12 7	1 50.55	+ 5 59.9	1.297	2.093	20.3	17.9
320184 2007 GY_{36}		10 29.9 235°.49 1°.3/28.8 17				
9 28	2 39.13	+11 11.8	2.470	3.333	10.2	21.1
10 8	2 33.76	+10 38.6	2.391	3.324	7.3	20.9
10 18	2 26.91	+10 0.3	2.337	3.314	4.0	20.7
10 28	2 19.17	+ 9 20.0	2.313	3.305	1.3	20.5
11 7	2 11.30	+ 8 41.7	2.319	3.295	3.6	20.7
11 17	2 4.03	+ 8 9.1	2.354	3.285	6.9	20.9
11 27	1 58.05	+ 7 45.6	2.416	3.274	9.9	21.0
12 7	1 53.83	+ 7 33.6	2.502	3.263	12.6	21.2
263737 2008 JJ_{4}		10 29.9 339°.23 5°.1/26.1 18				
9 28	2 40.16	+ 0 31.0	1.912	2.790	12.0	20.0
10 8	2 34.74	− 0 11.0	1.852	2.787	8.9	19.8
10 18	2 27.52	− 0 49.7	1.817	2.784	6.1	19.6
10 28	2 19.28	− 1 19.5	1.808	2.781	5.2	19.5
11 7	2 10.94	− 1 35.6	1.827	2.778	7.1	19.6
11 17	2 3.44	− 1 35.0	1.873	2.776	10.1	19.8
11 27	1 57.58	− 1 16.4	1.943	2.774	13.1	20.0
12 7	1 53.87	− 0 40.9	2.033	2.772	15.8	20.2
515623 2014 KG_{104}		10 29.9 219°.05 2°.5/27.7 18				
9 28	2 39.66	+ 9 53.2	2.091	2.962	11.5	22.1
10 8	2 34.31	+ 8 43.6	2.019	2.956	8.2	21.8
10 18	2 27.26	+ 7 27.6	1.972	2.949	4.6	21.6
10 28	2 19.24	+ 6 10.7	1.954	2.943	2.5	21.5
11 7	2 11.09	+ 4 59.1	1.966	2.935	4.9	21.6
11 17	2 3.70	+ 3 58.8	2.006	2.928	8.5	21.8
11 27	1 57.83	+ 3 14.1	2.072	2.920	11.8	22.0
12 7	1 53.98	+ 2 47.1	2.160	2.912	14.6	22.2
48177 2001 HF_{27}		10 29.9 128°.16 0°.6/29.4 18				
9 28	2 39.88	+12 46.1	2.608	3.464	9.9	19.3
10 8	2 34.14	+12 28.4	2.544	3.473	7.1	19.2
10 18	2 27.05	+12 5.7	2.507	3.482	3.9	19.0
10 28	2 19.21	+11 40.3	2.498	3.491	0.8	18.7
11 7	2 11.34	+11 15.2	2.521	3.500	2.9	18.9
11 17	2 4.13	+10 53.7	2.573	3.508	6.1	19.2
11 27	1 58.19	+10 38.6	2.653	3.516	9.0	19.4
12 7	1 53.95	+10 32.0	2.756	3.524	11.4	19.5
474105 2016 LP_{19}		10 29.9 33°.70 9°.2/24.6 16				
9 28	2 41.15	− 1 34.7	1.044	1.947	17.5	20.1
10 8	2 36.23	− 3 13.0	1.013	1.957	13.4	19.9
10 18	2 28.56	− 4 42.0	1.002	1.968	10.0	19.7
10 28	2 19.46	− 5 49.1	1.014	1.979	9.4	19.7
11 7	2 10.51	− 6 24.9	1.048	1.992	12.0	19.9
11 17	2 3.14	− 6 25.9	1.103	2.005	15.7	20.2
11 27	1 58.42	− 5 53.8	1.178	2.019	19.3	20.5
12 7	1 56.82	− 4 54.0	1.268	2.033	22.3	20.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
13948 1990 QB_{6}		10 29.9 55°.93 6°.7/ 2.7 18				
	h m	° ′			°	m
9 28	2 51.59	+27 34.8	1.287	2.120	19.4	17.0
10 8	2 43.81	+28 38.4	1.245	2.145	15.3	16.8
10 18	2 32.89	+29 17.7	1.224	2.171	10.9	16.6
10 28	2 20.21	+29 29.5	1.226	2.197	7.4	16.5
11 7	2 7.61	+29 15.8	1.254	2.223	7.1	16.6
11 17	1 56.80	+28 43.5	1.308	2.250	10.0	16.8
11 27	1 49.08	+28 2.8	1.385	2.276	13.7	17.1
12 7	1 45.00	+27 23.7	1.483	2.303	17.0	17.4
275408 2011 BP_{53}		10 30.0 124°.02 0°.4/30.4 18				
9 28	2 38.41	+16 52.1	3.129	3.972	8.8	21.5
10 8	2 32.90	+16 29.6	3.068	3.988	6.4	21.3
10 18	2 26.29	+16 0.5	3.033	4.004	3.6	21.2
10 28	2 19.09	+15 26.6	3.027	4.020	0.8	21.0
11 7	2 11.90	+14 50.8	3.053	4.035	2.2	21.1
11 17	2 5.29	+14 16.1	3.110	4.050	5.0	21.3
11 27	1 59.75	+13 45.5	3.196	4.064	7.5	21.5
12 7	1 55.64	+13 21.5	3.306	4.078	9.6	21.7
441706 2009 AB_{31}		10 30.0 151°.10 0°.5/30.4 18				
9 28	2 41.93	+17 12.7	1.925	2.781	12.9	21.9
10 8	2 36.07	+16 46.7	1.858	2.785	9.4	21.7
10 18	2 28.31	+16 9.5	1.814	2.788	5.4	21.5
10 28	2 19.45	+15 24.2	1.798	2.791	1.2	21.2
11 7	2 10.50	+14 35.3	1.812	2.794	3.3	21.3
11 17	2 2.45	+13 48.4	1.853	2.796	7.5	21.6
11 27	1 56.16	+13 8.9	1.921	2.799	11.2	21.8
12 7	1 52.16	+12 40.9	2.012	2.801	14.3	22.1
420262 2011 KD_{11}		10 30.0 296°.81 17°.6/ 6.5 17				
9 28	2 50.79	+43 11.3	0.926	1.724	27.8	22.4
10 8	2 47.22	+44 16.3	0.811	1.670	25.3	21.9
10 18	2 37.44	+44 38.8	0.707	1.615	22.2	21.5
10 28	2 21.43	+43 52.6	0.618	1.557	19.1	21.0
11 7	2 1.13	+41 29.6	0.546	1.497	17.7	20.6
11 17	1 40.46	+37 12.5	0.492	1.436	20.2	20.3
11 27	1 24.03	+31 14.5	0.457	1.373	26.7	20.3
12 7	1 14.71	+24 19.3	0.438	1.309	35.3	20.3
72869 2001 HE_{62}		10 30.0 86°.21 2°.6/ 1.6 18				
9 28	2 40.42	+24 5.1	2.366	3.192	11.8	19.2
10 8	2 34.71	+23 57.2	2.303	3.207	9.0	19.0
10 18	2 27.44	+23 36.1	2.264	3.222	5.9	18.9
10 28	2 19.30	+23 2.8	2.254	3.236	3.1	18.7
11 7	2 11.14	+22 20.6	2.272	3.251	3.3	18.8
11 17	2 3.78	+21 33.8	2.320	3.265	6.0	19.0
11 27	1 57.92	+20 47.6	2.395	3.279	9.0	19.2
12 7	1 54.02	+20 6.6	2.495	3.293	11.6	19.4
80817 2000 CK_{125}		10 30.0 180°.90 0°.3/29.8 18				
9 28	2 44.76	+14 33.6	1.849	2.708	13.2	20.2
10 8	2 38.18	+14 10.3	1.779	2.709	9.6	19.9
10 18	2 29.53	+13 37.8	1.734	2.710	5.3	19.7
10 28	2 19.67	+12 59.2	1.717	2.710	0.9	19.4
11 7	2 9.67	+12 19.2	1.729	2.709	3.8	19.6
11 17	2 0.62	+11 43.1	1.769	2.708	8.1	19.9
11 27	1 53.46	+11 15.9	1.836	2.707	11.9	20.1
12 7	1 48.74	+11 1.0	1.924	2.704	15.2	20.3
299155 2005 EK_{330}		10 30.0 195°.20 0°.5/29.7 18				
9 28	2 42.84	+13 36.1	2.021	2.881	12.2	21.0
10 8	2 36.69	+13 19.8	1.950	2.880	8.8	20.7
10 18	2 28.67	+12 56.2	1.903	2.879	4.9	20.5
10 28	2 19.53	+12 28.0	1.884	2.877	0.8	20.2
11 7	2 10.26	+11 59.1	1.894	2.875	3.6	20.4
11 17	2 1.80	+11 33.9	1.934	2.872	7.6	20.7
11 27	1 55.02	+11 16.4	1.999	2.870	11.1	20.9
12 7	1 50.46	+11 9.5	2.088	2.867	14.2	21.1
278601 2008 PV_{2}		10 30.0 23°.38 4°.3/ 1.1 18				
9 28	2 44.85	+21 21.1	1.101	1.973	19.3	19.1
10 8	2 39.28	+22 9.9	1.055	1.984	14.6	18.8
10 18	2 30.52	+22 39.9	1.028	1.996	9.4	18.6
10 28	2 19.87	+22 49.9	1.024	2.010	4.9	18.4
11 7	2 9.12	+22 42.6	1.044	2.024	5.6	18.5
11 17	2 0.03	+22 24.4	1.087	2.040	10.1	18.8
11 27	1 53.92	+22 4.2	1.153	2.058	14.7	19.1
12 7	1 51.43	+21 49.3	1.239	2.076	18.6	19.4
226277 2003 AR_{92}		10 30.0 227°.18 1°.7/28.8 18				
9 28	2 43.70	+11 2.8	1.784	2.653	13.2	20.9
10 8	2 37.54	+10 30.1	1.710	2.645	9.5	20.7
10 18	2 29.25	+ 9 50.7	1.660	2.637	5.3	20.4
10 28	2 19.66	+ 9 8.7	1.637	2.629	1.7	20.2
11 7	2 9.85	+ 8 29.5	1.644	2.620	4.6	20.4
11 17	2 0.93	+ 7 58.3	1.678	2.611	8.9	20.6
11 27	1 53.89	+ 7 39.6	1.737	2.602	12.9	20.8
12 7	1 49.32	+ 7 35.8	1.818	2.592	16.2	21.0

218931 2008 BL_{41} 10 30.0 173°.65 1°.3/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.44	+19 0.5	1.669	2.522	14.7	21.2
10 8	2 38.91	+18 43.2	1.601	2.524	10.9	21.0
10 18	2 30.04	+18 11.8	1.555	2.526	6.4	20.8
10 28	2 19.79	+17 28.5	1.536	2.528	2.0	20.5
11 7	2 9.39	+16 38.3	1.546	2.528	3.7	20.6
11 17	2 0.07	+15 47.6	1.583	2.529	8.3	20.9
11 27	1 52.89	+15 3.3	1.647	2.529	12.4	21.1
12 7	1 48.43	+14 30.8	1.732	2.528	15.9	21.4

423306 2005 EM_{160} 10 30.0 134°.82 0°.5/30.4 16

9 28	2 47.00	+16 35.4	1.710	2.565	14.3	22.2
10 8	2 39.84	+16 21.2	1.651	2.577	10.4	22.0
10 18	2 30.46	+15 55.7	1.616	2.589	5.9	21.8
10 28	2 19.85	+15 21.8	1.608	2.600	1.3	21.5
11 7	2 9.22	+14 44.0	1.629	2.611	3.7	21.7
11 17	1 59.74	+14 7.9	1.678	2.621	8.2	22.0
11 27	1 52.39	+13 39.0	1.754	2.630	12.1	22.2
12 7	1 47.69	+13 21.4	1.851	2.639	15.4	22.5

407627 2011 CO_{74} 10 30.0 321°.39 1°.2/29.3 17

9 28	2 40.24	+11 24.8	1.745	2.620	13.1	20.5
10 8	2 35.27	+11 15.4	1.658	2.596	9.5	20.2
10 18	2 28.10	+11 0.1	1.595	2.573	5.3	19.9
10 28	2 19.49	+10 41.9	1.558	2.550	1.3	19.6
11 7	2 10.46	+10 24.8	1.548	2.528	4.3	19.7
11 17	2 2.16	+10 13.4	1.566	2.506	8.8	20.0
11 27	1 55.64	+10 11.8	1.608	2.485	13.0	20.2
12 7	1 51.60	+10 22.7	1.671	2.465	16.6	20.4

515045 2010 DB_{75} 10 30.0 179°.04 1°.0/29.2 18

9 28	2 41.98	+13 21.9	1.834	2.701	13.0	22.1
10 8	2 36.18	+12 43.1	1.767	2.701	9.3	21.9
10 18	2 28.42	+11 55.7	1.725	2.702	5.1	21.7
10 28	2 19.51	+11 3.7	1.709	2.702	1.1	21.4
11 7	2 10.50	+10 12.8	1.723	2.702	4.1	21.6
11 17	2 2.41	+ 9 28.6	1.765	2.702	8.3	21.9
11 27	1 56.13	+ 8 56.0	1.832	2.701	12.1	22.1
12 7	1 52.18	+ 8 38.0	1.921	2.700	15.2	22.3

235832 2004 XQ_{163} 10 30.0 237°.65 3°.6/ 2.6 17

9 28	2 40.08	+27 21.4	2.441	3.253	12.0	20.5
10 8	2 34.63	+27 21.0	2.359	3.250	9.4	20.3
10 18	2 27.50	+27 5.5	2.301	3.246	6.6	20.2
10 28	2 19.37	+26 35.2	2.269	3.243	4.2	20.0
11 7	2 11.08	+25 52.5	2.267	3.240	4.0	20.0
11 17	2 3.49	+25 1.6	2.293	3.236	6.3	20.1
11 27	1 57.36	+24 7.9	2.347	3.233	9.1	20.3
12 7	1 53.21	+23 17.0	2.426	3.229	11.7	20.5

347589 2001 GP_5 10 30.0 229°.11 2°.0/31.9 18

9 28	2 41.38	+23 27.7	2.237	3.067	12.3	21.0
10 8	2 35.63	+22 44.1	2.146	3.055	9.3	20.8
10 18	2 28.09	+21 44.1	2.081	3.044	5.9	20.6
10 28	2 19.47	+20 30.0	2.044	3.031	2.5	20.3
11 7	2 10.68	+19 6.4	2.036	3.018	3.1	20.4
11 17	2 2.64	+17 39.7	2.059	3.004	6.7	20.6
11 27	1 56.16	+16 17.2	2.110	2.990	10.2	20.8
12 7	1 51.80	+15 4.9	2.186	2.976	13.3	20.9

320088 2007 EX_{87} 10 30.0 213°.87 3°.6/26.6 18

9 28	2 38.50	+ 4 8.9	2.342	3.215	10.3	20.7
10 8	2 33.33	+ 3 15.7	2.277	3.212	7.5	20.6
10 18	2 26.69	+ 2 22.1	2.237	3.209	4.7	20.4
10 28	2 19.23	+ 1 32.9	2.227	3.206	3.6	20.3
11 7	2 11.68	+ 0 52.6	2.245	3.202	5.5	20.4
11 17	2 4.80	+ 0 25.0	2.292	3.199	8.3	20.6
11 27	1 59.24	+ 0 12.4	2.364	3.195	11.1	20.8
12 7	1 55.46	+ 0 15.3	2.458	3.192	13.5	21.0

294288 2007 UH_{117} 10 30.0 12°.21 8°.4/24.7 18

9 28	2 38.06	− 2 1.4	1.230	2.129	15.7	18.9
10 8	2 33.85	− 3 21.8	1.191	2.133	12.0	18.7
10 18	2 27.25	− 4 34.0	1.174	2.138	9.1	18.6
10 28	2 19.33	− 5 27.6	1.180	2.144	8.5	18.6
11 7	2 11.44	− 5 54.9	1.209	2.152	10.8	18.8
11 17	2 4.81	− 5 52.4	1.261	2.161	14.2	19.0
11 27	2 0.44	− 5 20.7	1.333	2.171	17.6	19.2
12 7	1 58.82	− 4 23.9	1.422	2.182	20.5	19.5

472989 2015 HL_{17} 10 30.0 207°.98 0°.5/29.7 18

9 28	2 44.69	+14 24.0	1.780	2.642	13.6	22.2
10 8	2 38.28	+13 56.2	1.706	2.637	9.8	22.0
10 18	2 29.69	+13 18.6	1.656	2.632	5.5	21.7
10 28	2 19.77	+12 34.6	1.633	2.626	0.9	21.4
11 7	2 9.65	+11 49.4	1.639	2.620	4.0	21.6
11 17	2 0.47	+11 8.8	1.674	2.613	8.5	21.9
11 27	1 53.22	+10 38.0	1.734	2.606	12.5	22.1
12 7	1 48.51	+10 20.8	1.817	2.598	15.9	22.3

320434 2007 VF_{105} 10 30.0 92°.94 0°.7/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 41.44	+18 6.4	1.828	2.685	13.4	21.1
10 8	2 35.81	+17 38.1	1.764	2.691	9.8	20.9
10 18	2 28.22	+16 57.4	1.724	2.698	5.7	20.7
10 28	2 19.51	+16 7.5	1.712	2.704	1.4	20.4
11 7	2 10.74	+15 13.4	1.727	2.710	3.4	20.6
11 17	2 2.94	+14 21.1	1.771	2.716	7.6	20.9
11 27	1 56.97	+13 36.5	1.841	2.722	11.4	21.1
12 7	1 53.34	+13 4.0	1.933	2.728	14.6	21.3

487367 2014 QU_{251} 10 30.0 58°.17 4°.1/26.6 18

9 28	2 39.76	+ 1 57.5	2.179	3.053	10.9	20.6
10 8	2 34.26	+ 1 20.7	2.123	3.057	8.0	20.4
10 18	2 27.23	+ 0 46.0	2.093	3.062	5.3	20.3
10 28	2 19.34	+ 0 18.1	2.090	3.066	4.2	20.2
11 7	2 11.42	+ 0 0.8	2.116	3.071	5.9	20.3
11 17	2 4.27	− 0 3.0	2.170	3.076	8.8	20.5
11 27	1 58.57	+ 0 8.0	2.248	3.081	11.6	20.7
12 7	1 54.77	+ 0 33.5	2.349	3.086	13.9	20.9

515712 2014 SF_{60} 10 30.0 66°.65 5°.9/24.7 18

9 28	2 39.18	− 1 57.3	2.068	2.942	11.4	20.7
10 8	2 33.75	− 3 11.2	2.037	2.966	8.6	20.6
10 18	2 26.87	− 4 19.1	2.032	2.989	6.4	20.5
10 28	2 19.27	− 5 14.6	2.054	3.013	6.0	20.5
11 7	2 11.80	− 5 53.0	2.104	3.036	7.6	20.7
11 17	2 5.22	− 6 11.8	2.180	3.059	10.0	20.9
11 27	2 0.16	− 6 10.4	2.280	3.083	12.4	21.1
12 7	1 56.99	− 5 50.5	2.401	3.106	14.5	21.3

385759 2005 YO_{69} 10 30.0 277°.01 1°.2/30.8 18

9 28	2 42.83	+18 28.2	1.666	2.525	14.5	21.6
10 8	2 37.26	+18 12.7	1.581	2.509	10.7	21.4
10 18	2 29.28	+17 43.2	1.520	2.492	6.4	21.1
10 28	2 19.74	+17 1.7	1.485	2.476	1.8	20.8
11 7	2 9.82	+16 13.0	1.477	2.460	3.8	20.9
11 17	2 0.78	+15 23.2	1.496	2.443	8.5	21.1
11 27	1 53.75	+14 39.6	1.541	2.427	12.9	21.3
12 7	1 49.44	+14 7.9	1.608	2.410	16.7	21.5

83070 2001 QK_{213} 10 30.0 289°.84 0°.2/29.9 18

9 28	2 40.33	+15 17.1	1.895	2.759	12.7	19.6
10 8	2 35.04	+14 46.0	1.823	2.755	9.2	19.4
10 18	2 27.83	+14 5.0	1.775	2.751	5.2	19.2
10 28	2 19.48	+13 17.5	1.754	2.747	0.8	18.9
11 7	2 10.98	+12 28.5	1.762	2.744	3.6	19.1
11 17	2 3.32	+11 43.5	1.798	2.740	7.8	19.3
11 27	1 57.37	+11 7.7	1.860	2.736	11.5	19.5
12 7	1 53.67	+10 44.8	1.944	2.733	14.7	19.8

78247 2002 PO_3 10 30.0 345°.83 4°.7/25.5 18

9 28	2 37.42	+ 1 30.2	2.181	3.059	10.8	19.7
10 8	2 32.64	+ 0 24.2	2.123	3.058	7.9	19.5
10 18	2 26.36	− 0 40.2	2.090	3.056	5.5	19.4
10 28	2 19.22	− 1 37.2	2.085	3.055	4.8	19.3
11 7	2 12.02	− 2 21.7	2.108	3.054	6.6	19.4
11 17	2 5.53	− 2 49.9	2.158	3.054	9.3	19.6
11 27	2 0.43	− 2 59.9	2.232	3.053	12.0	19.8
12 7	1 57.16	− 2 51.7	2.328	3.052	14.4	20.0

392334 2010 EQ_{107} 10 30.0 232°.95 1°.0/29.3 18

9 28	2 42.86	+12 35.1	1.854	2.720	12.9	22.2
10 8	2 36.91	+12 9.3	1.780	2.714	9.3	21.9
10 18	2 28.91	+11 35.9	1.730	2.707	5.2	21.7
10 28	2 19.67	+10 58.5	1.707	2.700	1.2	21.4
11 7	2 10.24	+10 21.9	1.714	2.693	4.1	21.6
11 17	2 1.65	+ 9 51.0	1.748	2.685	8.3	21.8
11 27	1 54.86	+ 9 30.4	1.808	2.677	12.2	22.1
12 7	1 50.45	+ 9 23.0	1.890	2.669	15.4	22.3

103196 1999 XA_{244} 10 30.0 292°.65 6°.0/27.0 18

9 28	2 48.53	− 3 10.2	1.766	2.630	13.5	18.5
10 8	2 40.94	− 3 13.6	1.701	2.626	10.3	18.3
10 18	2 31.15	− 3 8.3	1.661	2.621	7.3	18.1
10 28	2 20.05	− 2 49.5	1.648	2.617	6.1	18.0
11 7	2 8.82	− 2 14.3	1.663	2.612	7.8	18.1
11 17	1 58.61	− 1 21.9	1.706	2.608	11.0	18.3
11 27	1 50.41	− 0 13.5	1.774	2.603	14.3	18.5
12 7	1 44.80	+ 1 8.4	1.863	2.599	17.1	18.7

296605 2009 RV_{69} 10 30.0 30°.77 2°.8/ 1.1 18

9 28	2 42.64	+22 5.6	2.078	2.915	12.9	20.4
10 8	2 36.64	+22 24.3	2.007	2.917	9.7	20.2
10 18	2 28.72	+22 30.6	1.959	2.920	6.3	20.0
10 28	2 19.64	+22 24.7	1.939	2.923	3.2	19.8
11 7	2 10.39	+22 8.6	1.947	2.926	3.7	19.8
11 17	2 1.96	+21 46.3	1.984	2.930	6.9	20.0
11 27	1 55.23	+21 22.6	2.048	2.933	10.2	20.2
12 7	1 50.76	+21 2.5	2.136	2.937	13.1	20.5

411980 2012 HK_{74} 10 30.0 285°.17 0°.9/29.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 38.31	+15 43.3	2.191	3.051	11.4	20.8
10 8	2 33.49	+14 25.2	2.094	3.026	8.2	20.6
10 18	2 26.96	+12 54.0	2.024	3.001	4.6	20.3
10 28	2 19.35	+11 14.3	1.982	2.975	1.0	20.0
11 7	2 11.51	+ 9 32.9	1.971	2.949	3.8	20.2
11 17	2 4.28	+ 7 57.2	1.990	2.923	7.7	20.4
11 27	1 58.48	+ 6 33.9	2.035	2.897	11.4	20.6
12 7	1 54.66	+ 5 27.8	2.104	2.871	14.5	20.7

343691 2011 CU_{43} 10 30.0 105°.89 0°.0/29.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.91	+16 20.9	1.681	2.541	14.3	21.5
10 8	2 38.28	+15 43.4	1.630	2.560	10.3	21.3
10 18	2 29.57	+14 54.4	1.603	2.578	5.8	21.0
10 28	2 19.77	+13 58.1	1.603	2.596	1.0	20.7
11 7	2 10.07	+13 0.6	1.632	2.613	3.8	21.0
11 17	2 1.55	+12 8.1	1.689	2.630	8.2	21.3
11 27	1 55.10	+11 26.5	1.771	2.647	12.1	21.6
12 7	1 51.20	+10 59.3	1.876	2.662	15.3	21.8

356785 2011 UO_{304} 10 30.0 287°.99 2°.2/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.27	+10 48.1	1.826	2.701	12.6	20.8
10 8	2 34.31	+ 9 48.3	1.754	2.693	9.0	20.6
10 18	2 27.44	+ 8 40.9	1.707	2.686	5.1	20.3
10 28	2 19.43	+ 7 31.6	1.688	2.678	2.2	20.1
11 7	2 11.27	+ 6 26.9	1.697	2.670	5.0	20.3
11 17	2 3.93	+ 5 33.0	1.733	2.663	9.0	20.5
11 27	1 58.29	+ 4 55.0	1.794	2.655	12.7	20.7
12 7	1 54.90	+ 4 35.2	1.877	2.648	15.8	20.9

85164 1988 TG_{2} 10 30.0 354°.39 5°.4/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.79	+23 48.3	1.387	2.238	17.3	17.4
10 8	2 39.19	+24 54.8	1.318	2.233	13.5	17.1
10 18	2 30.60	+25 45.5	1.270	2.228	9.4	16.9
10 28	2 20.02	+26 16.9	1.246	2.225	5.9	16.7
11 7	2 8.95	+26 28.8	1.247	2.222	6.1	16.7
11 17	1 59.01	+26 24.9	1.274	2.221	9.7	16.9
11 27	1 51.63	+26 12.3	1.324	2.221	13.8	17.1
12 7	1 47.62	+25 59.1	1.394	2.222	17.5	17.4

385201 1999 RN_{215} 10 30.0 142°.18 0°.3/25.9 13 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 19.93	+ 1 12.5	44.974	45.842	0.6	23.4
10 8	2 19.31	+ 1 8.0	44.912	45.843	0.5	23.4
10 18	2 18.63	+ 1 3.7	44.878	45.844	0.3	23.3
10 28	2 17.92	+ 0 59.7	44.873	45.845	0.3	23.3
11 7	2 17.21	+ 0 56.2	44.898	45.846	0.4	23.3
11 17	2 16.52	+ 0 53.3	44.952	45.847	0.5	23.4
11 27	2 15.88	+ 0 51.1	45.034	45.848	0.7	23.4
12 7	2 15.31	+ 0 49.7	45.141	45.849	0.9	23.4

492762 2014 QR_{172} 10 30.0 338°.09 5°.0/25.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 36.69	+ 2 51.9	1.868	2.753	11.9	21.1
10 8	2 32.38	+ 1 34.5	1.806	2.746	8.7	20.9
10 18	2 26.33	+ 0 16.8	1.769	2.739	5.9	20.7
10 28	2 19.25	− 0 53.9	1.758	2.732	5.1	20.6
11 7	2 12.06	− 1 51.0	1.775	2.726	7.2	20.8
11 17	2 5.65	− 2 29.5	1.818	2.720	10.4	20.9
11 27	2 0.80	− 2 46.4	1.884	2.715	13.5	21.1
12 7	1 58.03	− 2 42.0	1.971	2.711	16.2	21.3

211709 2003 XQ_{16} 10 30.0 314°.76 1°.4/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.41	+21 24.1	1.573	2.434	15.1	19.6
10 8	2 34.14	+20 31.2	1.491	2.418	11.3	19.3
10 18	2 27.55	+19 17.6	1.430	2.402	6.8	19.0
10 28	2 19.49	+17 47.1	1.396	2.387	2.2	18.7
11 7	2 11.15	+16 7.0	1.388	2.372	3.8	18.7
11 17	2 3.75	+14 27.1	1.408	2.358	8.7	19.0
11 27	1 58.35	+12 57.3	1.453	2.344	13.2	19.2
12 7	1 55.63	+11 45.1	1.519	2.330	17.1	19.4

382155 2012 FM_{67} 10 30.0 65°.47 4°.6/27.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.80	+ 6 20.9	1.284	2.172	16.0	20.1
10 8	2 38.36	+ 5 6.4	1.256	2.199	11.4	19.9
10 18	2 29.61	+ 3 51.0	1.251	2.227	6.8	19.7
10 28	2 19.79	+ 2 43.7	1.271	2.255	4.7	19.7
11 7	2 10.29	+ 1 52.4	1.317	2.282	7.4	19.9
11 17	2 2.33	+ 1 22.2	1.388	2.310	11.5	20.2
11 27	1 56.78	+ 1 15.0	1.482	2.337	15.2	20.5
12 7	1 54.05	+ 1 29.5	1.595	2.364	18.3	20.8

359969 2012 CM_{17} 10 30.0 3°.48 2°.3/26.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 31.97	+ 3 37.6	3.960	4.828	6.6	20.6
10 8	2 28.25	+ 2 58.8	3.895	4.828	4.7	20.5
10 18	2 23.75	+ 2 20.2	3.859	4.829	3.0	20.4
10 28	2 18.81	+ 1 44.6	3.851	4.829	2.4	20.3
11 7	2 13.84	+ 1 14.2	3.874	4.829	3.5	20.4
11 17	2 9.21	+ 0 51.1	3.927	4.830	5.3	20.5
11 27	2 5.30	+ 0 36.8	4.007	4.831	7.1	20.7
12 7	2 2.38	+ 0 32.0	4.110	4.831	8.6	20.8

53377 1999 JQ_{86} 10 30.0 106°.22 1°.6/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 40.51	+11 5.0	2.000	2.869	12.0	18.7
10 8	2 35.00	+10 29.1	1.937	2.873	8.5	18.5
10 18	2 27.75	+ 9 47.4	1.899	2.877	4.7	18.3
10 28	2 19.51	+ 9 4.2	1.889	2.881	1.6	18.1
11 7	2 11.21	+ 8 24.1	1.908	2.884	4.1	18.3
11 17	2 3.74	+ 7 51.7	1.955	2.888	7.9	18.5
11 27	1 57.88	+ 7 30.8	2.028	2.892	11.3	18.7
12 7	1 54.13	+ 7 23.5	2.123	2.895	14.2	18.9

130219 2000 AG_{242} 10 30.0 290°.68 4°.8/ 3.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.83	+31 16.9	2.267	3.064	13.2	19.7
10 8	2 34.76	+31 4.3	2.165	3.042	10.7	19.5
10 18	2 27.77	+30 31.6	2.086	3.020	7.9	19.3
10 28	2 19.54	+29 38.5	2.033	2.998	5.5	19.1
11 7	2 11.02	+28 27.4	2.008	2.976	5.0	19.0
11 17	2 3.19	+27 3.4	2.011	2.954	7.0	19.1
11 27	1 56.96	+25 34.2	2.043	2.932	10.0	19.2
12 7	1 52.95	+24 7.6	2.099	2.909	13.0	19.4

348357 2005 ET_{170} 10 30.0 213°.57 5°.8/ 4.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.17	+33 33.6	2.059	2.845	14.7	20.5
10 8	2 37.25	+33 27.9	1.975	2.841	12.1	20.3
10 18	2 29.16	+32 59.5	1.912	2.837	9.1	20.1
10 28	2 19.78	+32 7.3	1.875	2.833	6.6	19.9
11 7	2 10.21	+30 54.1	1.866	2.828	5.9	19.9
11 17	2 1.59	+29 25.9	1.885	2.823	7.7	20.0
11 27	1 54.90	+27 51.5	1.930	2.818	10.6	20.1
12 7	1 50.72	+26 19.6	2.001	2.812	13.5	20.3

196929 2003 UF_{10} 10 30.0 289°.46 6°.8/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.04	+33 44.6	2.358	3.129	13.5	19.6
10 8	2 40.20	+34 47.9	2.258	3.109	11.4	19.4
10 18	2 31.01	+35 35.1	2.181	3.088	9.1	19.3
10 28	2 20.14	+36 2.5	2.129	3.068	7.3	19.1
11 7	2 8.65	+36 8.6	2.105	3.048	6.9	19.1
11 17	1 57.71	+35 55.1	2.110	3.027	8.4	19.1
11 27	1 48.48	+35 27.1	2.141	3.007	10.7	19.2
12 7	1 41.76	+34 51.6	2.196	2.987	13.2	19.4

268203 2005 AK_{65} 10 30.0 14°.59 3°.8/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.63	+27 6.4	2.104	2.926	13.3	20.5
10 8	2 34.52	+27 2.0	2.031	2.928	10.4	20.3
10 18	2 27.56	+26 40.6	1.980	2.930	7.2	20.1
10 28	2 19.50	+26 2.7	1.956	2.932	4.4	20.0
11 7	2 11.32	+25 11.5	1.959	2.934	4.2	20.0
11 17	2 3.96	+24 12.2	1.991	2.937	6.8	20.1
11 27	1 58.28	+23 11.3	2.049	2.940	9.9	20.3
12 7	1 54.78	+22 15.2	2.132	2.943	12.8	20.5

173029 2006 QQ_{19} 10 30.0 92°.95 2°.8/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.98	+ 6 44.7	1.871	2.742	12.6	20.1
10 8	2 37.49	+ 6 24.9	1.818	2.753	9.0	19.9
10 18	2 29.14	+ 6 3.8	1.789	2.765	5.2	19.7
10 28	2 19.77	+ 5 45.3	1.789	2.776	2.8	19.6
11 7	2 10.41	+ 5 33.5	1.817	2.788	5.0	19.7
11 17	2 2.03	+ 5 31.5	1.873	2.799	8.7	20.0
11 27	1 55.45	+ 5 41.6	1.954	2.810	12.0	20.2
12 7	1 51.16	+ 6 4.2	2.058	2.821	14.9	20.4

323022 2002 QV_{4} 10 30.1 98°.42 1°.7/28.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.52	+10 40.7	1.586	2.453	14.6	21.3
10 8	2 40.84	+10 16.3	1.544	2.478	10.4	21.1
10 18	2 31.01	+ 9 46.4	1.526	2.502	5.8	20.9
10 28	2 20.08	+ 9 15.3	1.535	2.526	1.8	20.7
11 7	2 9.35	+ 8 48.1	1.573	2.550	4.7	20.9
11 17	1 59.97	+ 8 29.4	1.638	2.573	9.1	21.2
11 27	1 52.83	+ 8 22.7	1.730	2.595	12.9	21.5
12 7	1 48.40	+ 8 29.5	1.842	2.616	16.0	21.8

78831 2003 QT_{25} 10 30.1 184°.77 1°.1/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.45	+19 31.8	2.436	3.279	11.0	20.1
10 8	2 34.09	+19 8.9	2.360	3.279	8.1	19.9
10 18	2 27.22	+18 35.3	2.310	3.279	4.8	19.7
10 28	2 19.46	+17 53.2	2.288	3.278	1.6	19.5
11 7	2 11.60	+17 6.1	2.295	3.278	2.7	19.6
11 17	2 4.41	+16 18.3	2.332	3.277	6.1	19.8
11 27	1 58.60	+15 34.6	2.398	3.276	9.2	20.0
12 7	1 54.62	+14 58.8	2.487	3.275	11.9	20.2

99083 2001 FC_{25} 10 30.1 228°.18 1°.3/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.00	+19 5.7	2.178	3.021	12.1	20.4
10 8	2 36.90	+18 52.6	2.092	3.011	9.0	20.2
10 18	2 28.91	+18 28.1	2.031	3.000	5.4	20.0
10 28	2 19.76	+17 53.9	1.998	2.989	1.8	19.7
11 7	2 10.38	+17 13.3	1.995	2.977	3.1	19.8
11 17	2 1.71	+16 31.0	2.021	2.965	6.9	20.0
11 27	1 54.63	+15 52.3	2.075	2.952	10.5	20.2
12 7	1 49.71	+15 21.6	2.152	2.939	13.5	20.4

374811 2006 UM_{67} 10 30.1 234°.29 2°.4/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 42.45	+11 17.9	1.507	2.386	14.6	20.4
10 8	2 36.93	+10 15.5	1.441	2.382	10.5	20.1
10 18	2 29.06	+ 9 3.8	1.399	2.378	5.9	19.9
10 28	2 19.80	+ 7 49.2	1.383	2.373	2.4	19.6
11 7	2 10.37	+ 6 39.9	1.394	2.369	5.6	19.8
11 17	2 2.01	+ 5 43.5	1.431	2.364	10.2	20.1
11 27	1 55.77	+ 5 5.8	1.493	2.359	14.5	20.3
12 7	1 52.24	+ 4 49.2	1.574	2.354	18.0	20.6

429886 2012 TG_{21} 10 30.1 321°.82 0°.4/30.5 16

9 28	2 36.10	+16 57.8	2.630	3.483	10.0	21.3
10 8	2 31.68	+16 36.6	2.544	3.470	7.3	21.1
10 18	2 25.88	+16 7.3	2.484	3.457	4.2	20.8
10 28	2 19.24	+15 31.7	2.451	3.444	1.0	20.6
11 7	2 12.45	+14 53.3	2.449	3.431	2.6	20.7
11 17	2 6.18	+14 15.6	2.475	3.419	5.8	20.9
11 27	2 1.07	+13 42.5	2.529	3.407	8.8	21.1
12 7	1 57.60	+13 17.2	2.608	3.395	11.4	21.2

211666 2003 VW_{7} 10 30.1 332°.78 2°.4/31.1 18

9 28	2 46.33	+17 11.9	1.429	2.293	16.1	19.7
10 8	2 40.24	+18 2.9	1.351	2.280	12.1	19.5
10 18	2 31.23	+18 45.0	1.296	2.268	7.4	19.2
10 28	2 20.22	+19 16.8	1.266	2.256	2.9	18.9
11 7	2 8.64	+19 39.1	1.263	2.245	4.5	19.0
11 17	1 58.06	+19 54.3	1.286	2.235	9.4	19.2
11 27	1 49.88	+20 7.6	1.333	2.226	14.0	19.5
12 7	1 44.97	+20 24.2	1.401	2.217	18.0	19.7

20188 1997 AC_{18} 10 30.1 185°.36 4°.3/26.8 18

9 28	2 42.55	+ 3 9.1	1.969	2.842	12.0	18.5
10 8	2 36.48	+ 2 22.5	1.908	2.842	8.7	18.3
10 18	2 28.61	+ 1 36.7	1.871	2.841	5.6	18.1
10 28	2 19.71	+ 0 56.9	1.862	2.841	4.3	18.0
11 7	2 10.73	+ 0 28.4	1.882	2.840	6.3	18.1
11 17	2 2.61	+ 0 14.7	1.930	2.839	9.5	18.3
11 27	1 56.14	+ 0 17.8	2.002	2.837	12.7	18.5
12 7	1 51.83	+ 0 37.6	2.096	2.835	15.4	18.7

395653 2011 WN_{50} 10 30.1 24°.52 6°.2/26.6 18

9 28	2 43.53	− 1 20.9	1.560	2.441	14.1	19.9
10 8	2 37.45	− 1 47.5	1.512	2.446	10.6	19.7
10 18	2 29.22	− 2 7.1	1.487	2.453	7.4	19.5
10 28	2 19.81	− 2 13.8	1.488	2.459	6.2	19.5
11 7	2 10.41	− 2 3.4	1.515	2.467	8.1	19.6
11 17	2 2.14	− 1 34.0	1.567	2.475	11.4	19.8
11 27	1 55.92	− 0 46.2	1.643	2.483	14.7	20.1
12 7	1 52.28	+ 0 17.7	1.739	2.492	17.5	20.3

107707 2001 FV_{18} 10 30.1 198°.57 4°.7/ 2.6 18

9 28	2 46.35	+27 49.6	2.118	2.925	13.7	20.1
10 8	2 39.50	+28 18.9	2.037	2.923	10.9	20.0
10 18	2 30.47	+28 32.1	1.979	2.920	7.8	19.8
10 28	2 20.06	+28 27.6	1.948	2.917	5.2	19.6
11 7	2 9.36	+28 6.6	1.945	2.914	5.0	19.6
11 17	1 59.49	+27 32.9	1.972	2.910	7.4	19.7
11 27	1 51.46	+26 52.7	2.025	2.906	10.5	19.9
12 7	1 45.92	+26 12.8	2.102	2.902	13.4	20.1

392965 2012 XQ_{10} 10 30.1 344°.51 6°.9/26.5 18

9 28	2 45.47	− 3 0.3	1.521	2.398	14.6	19.8
10 8	2 39.01	− 3 25.2	1.464	2.395	11.2	19.6
10 18	2 30.19	− 3 41.3	1.430	2.392	8.1	19.4
10 28	2 20.00	− 3 42.3	1.421	2.389	7.0	19.4
11 7	2 9.69	− 3 23.7	1.439	2.387	8.9	19.5
11 17	2 0.51	− 2 43.8	1.482	2.385	12.3	19.7
11 27	1 53.50	− 1 43.6	1.548	2.383	15.7	19.9
12 7	1 49.23	− 0 26.3	1.633	2.382	18.7	20.1

156116 2001 SC_{281} 10 30.1 353°.49 0°.2/30.2 18

9 28	2 39.35	+16 11.0	1.155	2.044	17.3	19.2
10 8	2 35.31	+15 48.9	1.094	2.038	12.7	18.9
10 18	2 28.40	+15 11.5	1.054	2.033	7.2	18.6
10 28	2 19.72	+14 23.2	1.036	2.029	1.3	18.2
11 7	2 10.77	+13 31.3	1.043	2.027	4.7	18.4
11 17	2 3.12	+12 44.4	1.074	2.026	10.4	18.8
11 27	1 58.02	+12 10.6	1.127	2.026	15.5	19.0
12 7	1 56.16	+11 54.6	1.198	2.027	19.7	19.3

250013 2002 AT_{73} 10 30.1 15°.17 7°.8/24.9 18

9 28	2 40.71	− 4 48.5	1.576	2.457	13.9	19.5
10 8	2 35.41	− 5 41.4	1.532	2.461	10.9	19.4
10 18	2 28.08	− 6 24.5	1.510	2.465	8.4	19.2
10 28	2 19.63	− 6 50.4	1.514	2.470	7.9	19.2
11 7	2 11.18	− 6 53.9	1.542	2.476	9.7	19.3
11 17	2 3.81	− 6 33.2	1.596	2.483	12.6	19.5
11 27	1 58.38	− 5 49.0	1.671	2.490	15.5	19.7
12 7	1 55.39	− 4 44.7	1.765	2.498	18.0	20.0

443496 2014 JG_{27} 10 30.1 38°.78 9°.3/23.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 39.94	− 7 41.5	1.551	2.430	14.2	20.2
10 8	2 34.77	− 9 7.1	1.523	2.445	11.5	20.1
10 18	2 27.65	−10 19.1	1.517	2.460	9.6	20.0
10 28	2 19.55	−11 8.9	1.536	2.475	9.5	20.0
11 7	2 11.58	−11 30.9	1.580	2.492	11.2	20.2
11 17	2 4.74	−11 23.6	1.646	2.508	13.7	20.4
11 27	1 59.85	−10 48.7	1.734	2.525	16.2	20.6
12 7	1 57.33	− 9 50.7	1.838	2.543	18.3	20.8

484899 2009 RA_{9} 10 30.1 306°.55 1°.5/28.7 18

9 28	2 37.69	+12 35.7	2.075	2.945	11.5	20.9
10 8	2 33.04	+11 39.0	2.001	2.937	8.2	20.7
10 18	2 26.72	+10 34.1	1.951	2.929	4.6	20.5
10 28	2 19.42	+ 9 25.7	1.930	2.922	1.5	20.3
11 7	2 11.98	+ 8 19.6	1.938	2.914	4.1	20.4
11 17	2 5.25	+ 7 21.4	1.974	2.907	7.8	20.6
11 27	2 0.01	+ 6 36.0	2.036	2.900	11.3	20.9
12 7	1 56.75	+ 6 6.3	2.120	2.893	14.2	21.0

376608 2013 PU_{36} 10 30.1 310°.49 1°.3/29.2 16

9 28	2 42.46	+14 6.4	1.296	2.178	16.3	20.6
10 8	2 37.28	+13 15.3	1.232	2.173	11.8	20.4
10 18	2 29.41	+12 10.6	1.190	2.169	6.5	20.1
10 28	2 19.90	+10 58.7	1.173	2.166	1.5	19.7
11 7	2 10.19	+ 9 48.1	1.182	2.162	5.2	20.0
11 17	2 1.71	+ 8 47.8	1.216	2.158	10.6	20.3
11 27	1 55.64	+ 8 5.2	1.273	2.155	15.4	20.5
12 7	1 52.65	+ 7 44.0	1.349	2.152	19.3	20.8

65467 2002 XG_{26} 10 30.1 81°.28 0°.8/30.6 18

9 28	2 45.61	+18 11.2	1.474	2.336	15.8	19.0
10 8	2 39.03	+17 42.8	1.428	2.357	11.5	18.8
10 18	2 30.12	+17 0.0	1.405	2.379	6.6	18.6
10 28	2 19.99	+16 6.9	1.408	2.400	1.6	18.4
11 7	2 10.00	+15 9.9	1.438	2.421	3.9	18.6
11 17	2 1.39	+14 16.2	1.495	2.441	8.6	18.9
11 27	1 55.11	+13 32.5	1.577	2.462	12.8	19.2
12 7	1 51.63	+13 3.2	1.681	2.482	16.2	19.5

430734 2004 GA_{44} 10 30.1 128°.65 0°.4/30.3 16

9 28	2 45.80	+16 32.1	1.803	2.657	13.7	22.2
10 8	2 38.94	+16 10.6	1.745	2.671	9.9	22.0
10 18	2 30.03	+15 38.2	1.711	2.684	5.7	21.8
10 28	2 19.99	+14 58.0	1.705	2.697	1.1	21.5
11 7	2 9.95	+14 14.8	1.727	2.709	3.5	21.7
11 17	2 1.00	+13 34.1	1.779	2.721	7.8	22.0
11 27	1 54.03	+13 1.2	1.856	2.732	11.6	22.2
12 7	1 49.55	+12 39.9	1.956	2.742	14.7	22.5

47558 2000 AU_{137} 10 30.1 237°.26 5°.6/ 3.4 18

9 28	2 45.43	+30 24.4	2.101	2.898	14.1	18.7
10 8	2 38.97	+30 55.7	2.015	2.891	11.4	18.5
10 18	2 30.25	+31 9.2	1.951	2.883	8.5	18.3
10 28	2 20.07	+31 2.6	1.913	2.874	6.2	18.2
11 7	2 9.53	+30 36.9	1.904	2.866	5.8	18.1
11 17	1 59.79	+29 55.9	1.922	2.857	7.8	18.3
11 27	1 51.92	+29 6.3	1.967	2.848	10.7	18.4
12 7	1 46.60	+28 15.4	2.035	2.839	13.6	18.6

182637 2001 UR_{151} 10 30.1 356°.45 0°.8/29.6 18

9 28	2 40.13	+13 10.7	1.560	2.438	14.2	20.1
10 8	2 35.25	+12 52.4	1.496	2.435	10.3	19.9
10 18	2 28.14	+12 25.5	1.454	2.432	5.7	19.6
10 28	2 19.69	+11 53.9	1.438	2.431	1.1	19.3
11 7	2 11.07	+11 22.7	1.449	2.430	4.2	19.5
11 17	2 3.43	+10 57.2	1.486	2.430	8.9	19.8
11 27	1 57.80	+10 42.4	1.547	2.430	13.0	20.0
12 7	1 54.74	+10 41.2	1.630	2.432	16.5	20.3

293517 2007 GY_{34} 10 30.1 243°.24 0°.5/29.6 17

9 28	2 39.86	+13 55.8	2.378	3.236	10.7	22.1
10 8	2 34.47	+13 27.6	2.296	3.226	7.7	21.9
10 18	2 27.50	+12 52.2	2.240	3.216	4.3	21.7
10 28	2 19.58	+12 12.4	2.212	3.205	0.8	21.4
11 7	2 11.48	+11 32.0	2.215	3.195	3.2	21.6
11 17	2 4.02	+10 55.1	2.246	3.184	6.7	21.8
11 27	1 57.90	+10 25.9	2.305	3.172	10.0	22.0
12 7	1 53.64	+10 7.1	2.387	3.161	12.8	22.1

288091 2003 WW_{8} 10 30.1 358°.15 1°.5/31.0 18

9 28	2 43.32	+17 5.9	1.861	2.716	13.3	19.5
10 8	2 37.36	+17 35.4	1.789	2.714	9.8	19.3
10 18	2 29.29	+17 56.2	1.742	2.713	5.9	19.0
10 28	2 19.90	+18 8.6	1.721	2.712	2.0	18.8
11 7	2 10.27	+18 14.6	1.729	2.711	3.5	18.9
11 17	2 1.49	+18 17.0	1.765	2.712	7.5	19.1
11 27	1 54.54	+18 19.9	1.827	2.712	11.2	19.4
12 7	1 50.03	+18 27.2	1.912	2.714	14.4	19.6

321074 2008 SP_{67} 10 30.1 25°.28 0°.3/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 32.04	+13 52.8	4.167	5.020	6.6	20.6
10 8	2 28.32	+13 19.6	4.094	5.022	4.7	20.5
10 18	2 23.84	+12 42.4	4.048	5.023	2.6	20.3
10 28	2 18.93	+12 3.1	4.032	5.025	0.5	20.1
11 7	2 13.98	+11 23.9	4.047	5.027	1.9	20.3
11 17	2 9.38	+10 47.2	4.093	5.028	4.1	20.4
11 27	2 5.47	+10 15.2	4.168	5.030	6.0	20.6
12 7	2 2.53	+ 9 49.5	4.268	5.032	7.7	20.7

353307 2010 JZ_{76} 10 30.1 79°.46 7°.7/25.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.67	− 6 42.8	1.786	2.652	13.3	20.3
10 8	2 37.91	− 7 30.2	1.753	2.671	10.4	20.1
10 18	2 29.33	− 8 6.2	1.743	2.690	8.2	20.0
10 28	2 19.87	− 8 24.7	1.760	2.708	7.8	20.0
11 7	2 10.57	− 8 22.0	1.803	2.727	9.3	20.2
11 17	2 2.39	− 7 57.0	1.872	2.745	11.8	20.4
11 27	1 56.11	− 7 11.2	1.965	2.763	14.3	20.6
12 7	1 52.14	− 6 7.9	2.076	2.781	16.5	20.8

179663 2002 QH_{31} 10 30.1 142°.55 1°.6/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.69	+11 38.5	1.693	2.560	13.9	20.9
10 8	2 38.95	+11 3.0	1.635	2.569	9.9	20.7
10 18	2 30.08	+10 20.4	1.601	2.578	5.5	20.4
10 28	2 20.02	+ 9 35.2	1.595	2.587	1.7	20.2
11 7	2 9.93	+ 8 53.2	1.617	2.594	4.6	20.4
11 17	2 0.95	+ 8 19.6	1.667	2.602	8.9	20.7
11 27	1 54.00	+ 7 58.9	1.743	2.608	12.8	20.9
12 7	1 49.62	+ 7 53.3	1.840	2.614	16.0	21.2

422920 2002 SF_{65} 10 30.1 134°.80 2°.2/31.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.36	+21 53.6	1.786	2.625	14.5	22.1
10 8	2 39.44	+21 33.7	1.724	2.639	10.8	21.9
10 18	2 30.35	+20 57.8	1.686	2.652	6.7	21.7
10 28	2 20.07	+20 7.9	1.675	2.664	2.8	21.4
11 7	2 9.79	+19 9.2	1.693	2.675	3.6	21.5
11 17	2 0.64	+18 8.0	1.740	2.686	7.6	21.8
11 27	1 53.56	+17 11.7	1.813	2.696	11.4	22.0
12 7	1 49.08	+16 25.9	1.910	2.705	14.7	22.3

33180 1998 FD_{17} 10 30.1 211°.14 6°.2/24.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.71	+ 0 6.9	1.810	2.689	12.5	18.9
10 8	2 35.32	− 1 22.8	1.753	2.686	9.4	18.7
10 18	2 28.04	− 2 50.2	1.720	2.683	6.8	18.5
10 28	2 19.68	− 4 7.2	1.715	2.680	6.4	18.5
11 7	2 11.23	− 5 6.4	1.737	2.676	8.4	18.6
11 17	2 3.67	− 5 43.1	1.785	2.672	11.5	18.8
11 27	1 57.82	− 5 55.3	1.857	2.668	14.5	19.0
12 7	1 54.22	− 5 44.1	1.947	2.664	17.1	19.2

406762 2008 KJ_{9} 10 30.1 70°.23 1°.3/29.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.24	+11 32.2	2.054	2.920	11.8	21.6
10 8	2 35.37	+11 1.6	2.009	2.943	8.4	21.4
10 18	2 27.91	+10 25.8	1.988	2.965	4.6	21.3
10 28	2 19.64	+ 9 48.7	1.995	2.987	1.4	21.1
11 7	2 11.45	+ 9 14.4	2.032	3.009	3.8	21.3
11 17	2 4.17	+ 8 47.1	2.097	3.031	7.4	21.6
11 27	1 58.50	+ 8 29.9	2.189	3.053	10.5	21.8
12 7	1 54.85	+ 8 24.6	2.303	3.075	13.2	22.0

353091 2009 DB_{137} 10 30.1 336°.86 2°.1/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.74	+20 42.0	1.851	2.698	13.8	21.2
10 8	2 36.93	+20 39.6	1.779	2.698	10.3	21.0
10 18	2 29.03	+20 23.5	1.731	2.698	6.4	20.7
10 28	2 19.87	+19 55.2	1.709	2.698	2.7	20.5
11 7	2 10.52	+19 18.1	1.715	2.698	3.5	20.6
11 17	2 2.09	+18 37.6	1.750	2.697	7.5	20.8
11 27	1 55.52	+17 59.6	1.811	2.697	11.2	21.0
12 7	1 51.40	+17 29.4	1.894	2.697	14.5	21.3

402216 2005 AQ_{30} 10 30.1 257°.53 15°.9/ 6.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 57.50	+42 51.5	1.260	2.018	23.7	21.0
10 8	2 50.28	+45 10.1	1.189	2.010	21.2	20.8
10 18	2 37.94	+46 57.8	1.134	2.003	18.6	20.6
10 28	2 21.58	+48 0.1	1.097	1.994	16.6	20.5
11 7	2 3.65	+48 8.2	1.081	1.986	15.9	20.4
11 17	1 47.27	+47 23.7	1.086	1.978	16.8	20.5
11 27	1 35.19	+46 0.4	1.111	1.969	19.0	20.6
12 7	1 28.77	+44 18.0	1.153	1.960	21.6	20.7

63373 2001 HS_{35} 10 30.1 50°.67 1°.6/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.91	+21 3.2	2.152	2.997	12.2	18.4
10 8	2 33.85	+20 36.6	2.087	3.005	9.0	18.2
10 18	2 27.15	+19 57.1	2.045	3.013	5.5	18.0
10 28	2 19.53	+19 7.2	2.031	3.021	2.1	17.8
11 7	2 11.86	+18 11.1	2.046	3.029	3.0	17.9
11 17	2 4.99	+17 14.1	2.090	3.037	6.5	18.1
11 27	1 59.66	+16 21.8	2.161	3.046	9.8	18.3
12 7	1 56.34	+15 38.7	2.256	3.054	12.6	18.5

509108 2005 VO_{137} 10 30.1 215°.43 1°.6/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 43.51	+11 40.2	1.810	2.678	13.1	22.1
10 8	2 37.45	+11 2.5	1.738	2.673	9.4	21.9
10 18	2 29.32	+10 17.4	1.690	2.667	5.2	21.6
10 28	2 19.93	+ 9 29.2	1.669	2.661	1.6	21.3
11 7	2 10.36	+ 8 43.3	1.677	2.655	4.5	21.5
11 17	2 1.68	+ 8 5.4	1.714	2.648	8.7	21.8
11 27	1 54.84	+ 7 40.1	1.775	2.640	12.6	22.0
12 7	1 50.42	+ 7 30.0	1.859	2.633	15.8	22.2

408971 2002 PD_{184} 10 30.1 194°.76 4°.7/25.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.32	− 0 8.9	2.438	3.309	10.0	21.1
10 8	2 33.21	− 1 5.7	2.379	3.309	7.5	20.9
10 18	2 26.73	− 1 59.7	2.345	3.308	5.3	20.8
10 28	2 19.47	− 2 45.9	2.340	3.307	4.8	20.8
11 7	2 12.15	− 3 20.0	2.364	3.305	6.3	20.9
11 17	2 5.47	− 3 39.0	2.415	3.304	8.8	21.0
11 27	2 0.06	− 3 41.4	2.491	3.303	11.2	21.2
12 7	1 56.34	− 3 27.5	2.589	3.301	13.4	21.3

52170 2046 $T\text{-}_{2}$ 10 30.1 342°.34 1°.7/31.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.03	+18 53.8	1.194	2.072	17.6	18.8
10 8	2 36.60	+18 44.4	1.128	2.064	13.1	18.5
10 18	2 29.22	+18 17.2	1.082	2.057	7.9	18.2
10 28	2 19.95	+17 34.7	1.059	2.050	2.5	17.9
11 7	2 10.33	+16 43.0	1.061	2.045	4.5	18.0
11 17	2 1.96	+15 50.8	1.087	2.040	10.1	18.3
11 27	1 56.21	+15 7.2	1.135	2.036	15.2	18.6
12 7	1 53.79	+14 38.7	1.202	2.033	19.5	18.8

81184 2000 EK_{186} 10 30.1 64°.86 0°.7/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.36	+17 14.6	1.346	2.214	16.7	19.5
10 8	2 39.69	+16 56.7	1.306	2.238	12.1	19.3
10 18	2 30.54	+16 25.1	1.288	2.263	6.9	19.0
10 28	2 20.12	+15 43.6	1.295	2.288	1.6	18.8
11 7	2 9.89	+14 58.5	1.329	2.312	4.1	19.0
11 17	2 1.18	+14 16.7	1.389	2.337	9.0	19.4
11 27	1 54.98	+13 44.7	1.474	2.361	13.3	19.7
12 7	1 51.75	+13 26.4	1.580	2.386	16.8	20.0

230167 2001 QH_{253} 10 30.1 1°.18 1°.8/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.00	+11 30.7	1.080	1.978	17.5	19.6
10 8	2 35.84	+11 8.5	1.026	1.975	12.6	19.3
10 18	2 28.74	+10 37.3	0.992	1.974	7.0	19.0
10 28	2 19.86	+10 2.7	0.981	1.974	2.0	18.7
11 7	2 10.78	+ 9 32.2	0.994	1.975	5.7	18.9
11 17	2 3.08	+ 9 12.7	1.030	1.978	11.3	19.2
11 27	1 58.04	+ 9 9.7	1.087	1.982	16.3	19.5
12 7	1 56.30	+ 9 25.0	1.163	1.987	20.4	19.8

301169 2008 YQ_{67} 10 30.1 177°.83 7°.5/24.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.14	− 7 32.5	2.039	2.900	12.1	20.9
10 8	2 36.84	− 8 28.9	1.988	2.901	9.7	20.7
10 18	2 28.83	− 9 15.5	1.961	2.902	7.9	20.6
10 28	2 19.85	− 9 46.0	1.962	2.902	7.7	20.6
11 7	2 10.85	− 9 55.9	1.989	2.903	9.2	20.7
11 17	2 2.72	− 9 43.3	2.043	2.902	11.5	20.9
11 27	1 56.23	− 9 8.8	2.119	2.902	13.9	21.0
12 7	1 51.86	− 8 15.1	2.215	2.901	16.0	21.2

432856 2011 HF_{76} 10 30.1 98°.38 3°.8/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.23	+ 5 32.8	1.800	2.672	12.9	21.3
10 8	2 37.63	+ 4 39.2	1.759	2.695	9.2	21.1
10 18	2 29.22	+ 3 45.1	1.743	2.717	5.6	20.9
10 28	2 19.91	+ 2 56.3	1.755	2.738	3.8	20.9
11 7	2 10.74	+ 2 18.3	1.796	2.759	6.0	21.0
11 17	2 2.66	+ 1 55.1	1.864	2.780	9.4	21.3
11 27	1 56.45	+ 1 48.7	1.957	2.800	12.6	21.5
12 7	1 52.52	+ 1 59.0	2.071	2.819	15.2	21.8

62953 2000 VR_{35} 10 30.1 49°.57 3°.6/27.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.95	+ 4 6.0	1.953	2.826	12.0	18.9
10 8	2 36.07	+ 3 41.0	1.896	2.831	8.7	18.7
10 18	2 28.42	+ 3 16.9	1.864	2.837	5.4	18.6
10 28	2 19.79	+ 2 58.0	1.859	2.842	3.6	18.5
11 7	2 11.11	+ 2 48.3	1.883	2.848	5.6	18.6
11 17	2 3.30	+ 2 50.5	1.935	2.854	8.9	18.8
11 27	1 57.15	+ 3 6.5	2.012	2.859	12.1	19.0
12 7	1 53.14	+ 3 36.1	2.110	2.865	14.8	19.2

349855 2009 DU_{19} 10 30.1 212°.54 5°.9/25.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.59	− 3 2.9	2.152	3.018	11.4	21.0
10 8	2 36.45	− 3 51.3	2.090	3.013	8.7	20.8
10 18	2 28.63	− 4 34.2	2.052	3.008	6.5	20.6
10 28	2 19.83	− 5 5.9	2.043	3.002	6.0	20.6
11 7	2 10.94	− 5 22.1	2.061	2.996	7.6	20.7
11 17	2 2.81	− 5 20.0	2.107	2.989	10.2	20.9
11 27	1 56.21	− 4 59.0	2.178	2.982	12.9	21.0
12 7	1 51.62	− 4 20.5	2.268	2.975	15.2	21.2

145744 1995 UV_{10} 10 30.1 320°.14 0°.9/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 41.19	+17 50.8	1.252	2.130	17.0	19.9
10 8	2 36.70	+17 30.3	1.178	2.116	12.6	19.6
10 18	2 29.31	+16 52.8	1.125	2.102	7.4	19.3
10 28	2 20.01	+16 1.2	1.096	2.088	1.8	18.9
11 7	2 10.27	+15 2.3	1.091	2.075	4.5	19.1
11 17	2 1.66	+14 4.8	1.112	2.063	10.2	19.4
11 27	1 55.54	+13 17.9	1.155	2.052	15.4	19.6
12 7	1 52.70	+12 47.9	1.217	2.041	19.7	19.9

515835 2015 NC_{6} 10 30.1 99°.75 6°.9/24.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.07	− 2 23.6	1.772	2.649	12.8	21.2
10 8	2 35.50	− 3 47.3	1.729	2.658	9.8	21.1
10 18	2 28.11	− 5 4.8	1.710	2.667	7.4	20.9
10 28	2 19.74	− 6 8.3	1.718	2.676	7.1	20.9
11 7	2 11.40	− 6 51.3	1.753	2.684	9.0	21.1
11 17	2 4.05	− 7 10.6	1.813	2.693	11.7	21.3
11 27	1 58.46	− 7 5.5	1.896	2.701	14.5	21.5
12 7	1 55.10	− 6 38.2	1.998	2.709	16.8	21.7

453543 2009 WW_{159} 10 30.1 304°.64 0°.7/29.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.95	+12 10.1	2.086	2.949	11.8	21.3
10 8	2 36.37	+12 7.6	1.988	2.920	8.6	21.0
10 18	2 28.81	+11 59.8	1.915	2.891	4.8	20.7
10 28	2 19.91	+11 48.6	1.869	2.862	1.0	20.4
11 7	2 10.59	+11 37.3	1.853	2.833	3.6	20.5
11 17	2 1.82	+11 29.2	1.865	2.805	7.7	20.7
11 27	1 54.56	+11 28.1	1.904	2.776	11.5	20.9
12 7	1 49.48	+11 36.7	1.965	2.747	14.8	21.1

366312 2013 CO_{142} 10 30.1 217°.20 1°.7/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.40	+19 51.0	2.198	3.037	12.1	21.4
10 8	2 37.21	+19 50.2	2.116	3.032	9.1	21.1
10 18	2 29.16	+19 38.3	2.059	3.026	5.6	20.9
10 28	2 19.96	+19 16.4	2.030	3.019	2.2	20.7
11 7	2 10.54	+18 47.2	2.031	3.013	3.1	20.7
11 17	2 1.85	+18 14.8	2.061	3.005	6.7	21.0
11 27	1 54.75	+17 44.2	2.118	2.998	10.2	21.2
12 7	1 49.81	+17 19.8	2.199	2.990	13.2	21.4

68409 2001 QS_{148} 10 30.1 29°.09 0°.4/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.22	+12 36.3	1.477	2.351	15.1	18.5
10 8	2 38.19	+12 47.4	1.425	2.362	10.8	18.3
10 18	2 29.79	+12 51.6	1.396	2.373	6.1	18.1
10 28	2 20.06	+12 51.4	1.393	2.386	1.0	17.8
11 7	2 10.28	+12 50.2	1.416	2.399	4.1	18.0
11 17	2 1.70	+12 51.9	1.467	2.412	8.8	18.3
11 27	1 55.35	+13 0.4	1.542	2.426	13.0	18.6
12 7	1 51.78	+13 18.2	1.638	2.441	16.4	18.9

260470 2005 BB_{21} 10 30.1 155°.79 5°.8/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.53	− 5 37.4	2.538	3.400	10.0	20.1
10 8	2 34.01	− 6 23.8	2.486	3.403	7.8	20.0
10 18	2 27.16	− 7 3.4	2.459	3.405	6.2	19.9
10 28	2 19.59	− 7 31.5	2.460	3.407	5.9	19.9
11 7	2 11.99	− 7 44.5	2.489	3.409	7.2	20.0
11 17	2 5.05	− 7 40.6	2.546	3.411	9.3	20.1
11 27	1 59.37	− 7 19.6	2.626	3.413	11.4	20.3
12 7	1 55.35	− 6 42.8	2.728	3.415	13.3	20.4

509600 2008 EO_{22} 10 30.1 178°.68 4°.7/26.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.69	+ 2 47.1	1.947	2.816	12.2	22.1
10 8	2 38.06	+ 1 46.4	1.886	2.818	9.0	21.9
10 18	2 29.56	+ 0 46.2	1.852	2.820	5.9	21.8
10 28	2 20.02	− 0 7.2	1.845	2.821	4.7	21.7
11 7	2 10.41	− 0 48.0	1.867	2.821	6.8	21.8
11 17	2 1.70	− 1 12.2	1.918	2.820	10.0	22.0
11 27	1 54.74	− 1 17.6	1.993	2.818	13.1	22.2
12 7	1 50.01	− 1 4.5	2.088	2.816	15.8	22.4

99706 2002 JC_{38} 10 30.1 105°.58 3°.5/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.74	+ 3 28.7	2.274	3.144	10.7	19.3
10 8	2 35.00	+ 2 57.4	2.217	3.150	7.7	19.2
10 18	2 27.76	+ 2 27.3	2.186	3.157	4.9	19.0
10 28	2 19.70	+ 2 2.2	2.183	3.163	3.5	18.9
11 7	2 11.60	+ 1 45.9	2.209	3.170	5.3	19.1
11 17	2 4.25	+ 1 41.0	2.264	3.176	8.2	19.3
11 27	1 58.32	+ 1 49.3	2.344	3.182	11.0	19.4
12 7	1 54.24	+ 2 10.8	2.447	3.188	13.4	19.6

241464 2008 YS_{163} 10 30.1 57°.78 4°.0/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.18	+ 6 10.8	1.589	2.472	13.7	19.8
10 8	2 35.74	+ 5 9.2	1.543	2.485	9.8	19.6
10 18	2 28.29	+ 4 5.9	1.522	2.498	5.9	19.4
10 28	2 19.79	+ 3 7.8	1.527	2.511	4.0	19.3
11 7	2 11.33	+ 2 21.6	1.559	2.524	6.5	19.5
11 17	2 3.98	+ 1 52.2	1.617	2.538	10.2	19.7
11 27	1 58.57	+ 1 42.2	1.699	2.552	13.7	20.0
12 7	1 55.57	+ 1 51.5	1.802	2.565	16.6	20.2

447319 2005 XG_{50} 10 30.1 356°.28 4°.3/27.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 42.01	+ 2 8.0	1.909	2.784	12.2	21.1
10 8	2 36.20	+ 1 45.0	1.848	2.783	8.9	20.9
10 18	2 28.56	+ 1 24.5	1.812	2.782	5.8	20.7
10 28	2 19.85	+ 1 11.2	1.802	2.781	4.3	20.6
11 7	2 11.04	+ 1 9.0	1.821	2.781	6.2	20.7
11 17	2 3.08	+ 1 20.4	1.867	2.781	9.5	20.9
11 27	1 56.81	+ 1 46.8	1.937	2.781	12.7	21.1
12 7	1 52.73	+ 2 27.5	2.029	2.781	15.4	21.3

110850 2001 UY_{75} 10 30.1 8°.99 4°.4/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.34	+ 4 22.3	1.571	2.457	13.7	18.4
10 8	2 35.28	+ 3 41.2	1.516	2.458	9.9	18.2
10 18	2 28.12	+ 3 0.2	1.485	2.460	6.2	18.0
10 28	2 19.77	+ 2 25.6	1.480	2.462	4.4	17.9
11 7	2 11.34	+ 2 3.0	1.501	2.465	6.7	18.0
11 17	2 3.93	+ 1 56.5	1.547	2.469	10.5	18.3
11 27	1 58.45	+ 2 8.2	1.618	2.474	14.1	18.5
12 7	1 55.44	+ 2 37.7	1.708	2.479	17.1	18.7

284245 2006 EW_{25} 10 30.1 83°.79 4°.0/27.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.56	+ 6 11.5	1.676	2.554	13.4	20.9
10 8	2 36.56	+ 5 1.4	1.636	2.574	9.6	20.8
10 18	2 28.69	+ 3 50.0	1.620	2.595	5.8	20.6
10 28	2 19.86	+ 2 44.2	1.632	2.615	4.0	20.5
11 7	2 11.17	+ 1 50.7	1.672	2.635	6.4	20.7
11 17	2 3.59	+ 1 14.2	1.738	2.654	9.9	21.0
11 27	1 57.93	+ 0 57.4	1.829	2.673	13.2	21.2
12 7	1 54.61	+ 1 0.0	1.940	2.692	16.0	21.5

148619 2001 RM_{120} 10 30.1 61°.10 5°.7/25.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.42	+ 1 43.8	1.742	2.626	12.7	20.0
10 8	2 34.34	+ 0 15.7	1.700	2.637	9.4	19.8
10 18	2 27.47	− 1 10.1	1.682	2.649	6.5	19.6
10 28	2 19.66	− 2 25.5	1.691	2.661	5.8	19.6
11 7	2 11.90	− 3 23.7	1.728	2.674	7.9	19.8
11 17	2 5.11	− 4 0.1	1.790	2.686	10.9	20.0
11 27	2 0.05	− 4 13.2	1.875	2.699	13.9	20.2
12 7	1 57.19	− 4 4.1	1.980	2.711	16.4	20.4

26497 2000 CS_{1} 10 30.1 242°.25 2°.1/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.11	+ 9 9.0	2.396	3.265	10.3	19.0
10 8	2 33.17	+ 8 21.0	2.325	3.260	7.3	18.8
10 18	2 26.78	+ 7 28.8	2.279	3.256	4.2	18.6
10 28	2 19.55	+ 6 36.6	2.262	3.251	2.1	18.5
11 7	2 12.23	+ 5 48.9	2.275	3.246	4.2	18.6
11 17	2 5.53	+ 5 9.9	2.317	3.241	7.3	18.8
11 27	2 0.12	+ 4 42.8	2.385	3.237	10.3	19.0
12 7	1 56.45	+ 4 29.4	2.476	3.232	12.8	19.2

328860 2009 WC_{190} 10 30.1 117°.37 1°.4/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.51	+10 25.0	2.520	3.382	10.0	20.8
10 8	2 34.04	+ 9 57.8	2.458	3.391	7.1	20.6
10 18	2 27.21	+ 9 26.8	2.422	3.399	4.0	20.4
10 28	2 19.62	+ 8 55.0	2.416	3.407	1.4	20.3
11 7	2 12.00	+ 8 25.9	2.439	3.415	3.5	20.4
11 17	2 5.04	+ 8 2.8	2.492	3.423	6.6	20.7
11 27	1 59.37	+ 7 48.3	2.572	3.431	9.4	20.9
12 7	1 55.39	+ 7 44.1	2.676	3.438	11.8	21.0

408530 2013 JP_{47} 10 30.1 113°.66 1°.8/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.87	+10 2.4	2.606	3.469	9.7	22.0
10 8	2 33.47	+ 9 6.0	2.553	3.486	6.9	21.9
10 18	2 26.83	+ 8 5.7	2.527	3.503	3.9	21.7
10 28	2 19.55	+ 7 5.6	2.531	3.520	1.8	21.6
11 7	2 12.30	+ 6 10.2	2.565	3.536	3.8	21.7
11 17	2 5.74	+ 5 23.2	2.628	3.552	6.6	22.0
11 27	2 0.41	+ 4 47.7	2.720	3.567	9.3	22.2
12 7	1 56.70	+ 4 25.3	2.834	3.582	11.6	22.3

113439 2002 SJ_{42} 10 30.1 44°.66 0°.3/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.26	+14 24.3	1.661	2.530	14.0	19.8
10 8	2 36.63	+14 5.2	1.602	2.536	10.1	19.6
10 18	2 28.89	+13 36.9	1.567	2.543	5.6	19.4
10 28	2 19.94	+13 2.9	1.558	2.551	1.0	19.0
11 7	2 10.91	+12 28.0	1.576	2.558	3.9	19.3
11 17	2 2.92	+11 57.6	1.622	2.566	8.3	19.6
11 27	1 56.90	+11 36.6	1.693	2.573	12.3	19.8
12 7	1 53.38	+11 28.0	1.786	2.582	15.6	20.1

462533 2009 AK_{40} 10 30.1 1°.02 5°.1/25.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 37.24	− 0 41.9	2.197	3.074	10.7	20.7
10 8	2 32.59	− 1 35.6	2.141	3.073	8.1	20.6
10 18	2 26.47	− 2 25.5	2.111	3.073	5.8	20.4
10 28	2 19.51	− 3 6.4	2.107	3.073	5.2	20.4
11 7	2 12.50	− 3 33.7	2.131	3.074	6.9	20.5
11 17	2 6.18	− 3 44.5	2.182	3.074	9.4	20.7
11 27	2 1.22	− 3 37.4	2.257	3.076	12.0	20.8
12 7	1 58.06	− 3 13.4	2.353	3.077	14.3	21.0

514493 2016 WZ_{14} 10 30.1 42°.88 0°.4/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 43.91	+13 50.2	1.403	2.279	15.6	20.4
10 8	2 38.02	+13 40.0	1.355	2.292	11.2	20.2
10 18	2 29.73	+13 20.6	1.328	2.306	6.3	19.9
10 28	2 20.09	+12 55.4	1.327	2.320	1.1	19.6
11 7	2 10.46	+12 29.7	1.353	2.335	4.3	19.9
11 17	2 2.13	+12 8.9	1.405	2.350	9.1	20.2
11 27	1 56.10	+11 57.9	1.480	2.365	13.4	20.5
12 7	1 52.91	+11 59.6	1.577	2.381	16.9	20.8

481373 2006 KJ_{12} 10 30.1 52°.66 8°.1/24.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.40	− 4 1.3	1.466	2.349	14.7	19.9
10 8	2 36.60	− 5 16.2	1.438	2.369	11.3	19.8
10 18	2 28.76	− 6 20.7	1.433	2.389	8.7	19.7
10 28	2 19.90	− 7 6.1	1.453	2.409	8.2	19.7
11 7	2 11.24	− 7 27.0	1.498	2.430	10.1	19.9
11 17	2 3.84	− 7 21.3	1.567	2.451	13.0	20.1
11 27	1 58.54	− 6 50.3	1.658	2.473	15.8	20.3
12 7	1 55.75	− 5 57.9	1.767	2.494	18.2	20.6

200545 2001 FZ_{87} 10 30.1 213°.72 2°.0/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.82	+ 9 21.8	2.135	3.000	11.5	21.2
10 8	2 36.73	+ 8 51.4	2.061	2.994	8.2	21.0
10 18	2 28.87	+ 8 16.7	2.011	2.987	4.7	20.8
10 28	2 19.96	+ 7 41.6	1.991	2.981	2.0	20.6
11 7	2 10.88	+ 7 10.2	2.000	2.973	4.3	20.8
11 17	2 2.54	+ 6 46.7	2.037	2.966	7.9	21.0
11 27	1 55.75	+ 6 34.4	2.102	2.958	11.3	21.2
12 7	1 51.04	+ 6 35.0	2.188	2.949	14.2	21.4

228425 2001 PU_{28} 10 30.1 39°.19 1°.6/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.74	+17 57.5	1.052	1.934	19.2	19.1
10 8	2 39.71	+18 0.1	1.021	1.959	14.0	18.9
10 18	2 30.74	+17 46.1	1.009	1.985	8.2	18.7
10 28	2 20.25	+17 18.5	1.020	2.012	2.4	18.4
11 7	2 10.04	+16 44.2	1.055	2.039	4.5	18.7
11 17	2 1.66	+16 10.7	1.115	2.068	9.9	19.1
11 27	1 56.22	+15 45.8	1.197	2.097	14.7	19.4
12 7	1 54.16	+15 33.9	1.298	2.126	18.5	19.8

23143 2000 AZ_{177} 10 30.1 38°.88 4°.9/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.00	+ 6 42.8	1.194	2.091	16.3	16.0
10 8	2 35.83	+ 5 17.9	1.171	2.119	11.6	15.8
10 18	2 28.37	+ 3 52.2	1.170	2.147	7.0	15.6
10 28	2 19.83	+ 2 35.8	1.193	2.177	4.9	15.6
11 7	2 11.60	+ 1 37.2	1.241	2.207	7.7	15.8
11 17	2 4.86	+ 1 2.0	1.314	2.238	11.8	16.2
11 27	2 0.48	+ 0 51.8	1.408	2.269	15.5	16.5
12 7	1 58.81	+ 1 4.9	1.521	2.301	18.5	16.8

148258 2000 FQ_{20} 10 30.1 167°.43 2°.9/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.10	+ 7 37.1	1.956	2.824	12.2	20.9
10 8	2 37.65	+ 6 47.9	1.894	2.828	8.8	20.7
10 18	2 29.37	+ 5 55.4	1.858	2.833	5.1	20.5
10 28	2 20.04	+ 5 4.6	1.850	2.836	2.9	20.4
11 7	2 10.67	+ 4 21.1	1.871	2.839	5.3	20.6
11 17	2 2.19	+ 3 49.5	1.921	2.841	8.8	20.8
11 27	1 55.44	+ 3 32.8	1.996	2.843	12.2	21.0
12 7	1 50.92	+ 3 32.3	2.093	2.844	15.0	21.2

323207 2003 SP_{2} 10 30.1 37°.98 1°.4/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.06	+18 32.5	1.103	1.983	18.7	20.7
10 8	2 38.69	+18 19.9	1.056	1.994	13.7	20.4
10 18	2 30.32	+17 49.5	1.029	2.005	8.1	20.1
10 28	2 20.22	+17 4.7	1.025	2.017	2.3	19.8
11 7	2 10.12	+16 13.0	1.045	2.029	4.6	20.0
11 17	2 1.63	+15 23.1	1.090	2.043	10.1	20.4
11 27	1 55.97	+14 43.7	1.157	2.057	15.1	20.7
12 7	1 53.71	+14 20.2	1.243	2.071	19.2	21.0

269228 2008 PT_{15} 10 30.1 345°.73 3°.9/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.10	+26 1.4	2.106	2.930	13.2	20.7
10 8	2 35.72	+26 15.1	2.028	2.927	10.3	20.5
10 18	2 28.41	+26 13.5	1.974	2.924	7.1	20.3
10 28	2 19.90	+25 56.3	1.945	2.922	4.4	20.2
11 7	2 11.17	+25 25.8	1.945	2.920	4.3	20.2
11 17	2 3.22	+24 46.1	1.973	2.918	6.9	20.3
11 27	1 56.94	+24 3.2	2.027	2.916	10.1	20.5
12 7	1 52.91	+23 23.1	2.105	2.915	13.0	20.7

136776 1996 TB_{22} 10 30.1 75°.60 0°.7/30.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.79	+17 34.7	1.343	2.212	16.6	20.6
10 8	2 38.86	+17 9.0	1.287	2.221	12.1	20.3
10 18	2 30.30	+16 28.1	1.253	2.229	7.0	20.0
10 28	2 20.22	+15 35.9	1.245	2.237	1.6	19.7
11 7	2 10.10	+14 39.2	1.262	2.245	4.2	19.9
11 17	2 1.32	+13 46.0	1.306	2.254	9.4	20.3
11 27	1 55.00	+13 3.8	1.373	2.262	14.0	20.6
12 7	1 51.73	+12 37.2	1.461	2.271	17.7	20.8

203971 2003 SP_{171} 10 30.1 7°.94 2°.7/ 1.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 41.60	+22 13.7	1.488	2.344	16.0	20.0
10 8	2 36.55	+22 4.8	1.422	2.344	12.1	19.7
10 18	2 29.03	+21 37.7	1.378	2.345	7.6	19.5
10 28	2 20.01	+20 54.0	1.359	2.347	3.4	19.3
11 7	2 10.82	+19 58.8	1.366	2.349	4.1	19.3
11 17	2 2.75	+18 59.5	1.400	2.351	8.5	19.6
11 27	1 56.91	+18 4.4	1.458	2.354	12.8	19.8
12 7	1 53.92	+17 20.2	1.537	2.358	16.5	20.1

444983 2008 FD_{12} 10 30.1 320°.21 3°.8/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.60	+ 6 54.0	1.735	2.618	12.8	20.7
10 8	2 33.99	+ 5 42.9	1.668	2.610	9.2	20.5
10 18	2 27.44	+ 4 27.5	1.626	2.602	5.6	20.3
10 28	2 19.73	+ 3 14.7	1.610	2.594	3.9	20.2
11 7	2 11.85	+ 2 11.7	1.622	2.587	6.4	20.3
11 17	2 4.83	+ 1 24.7	1.660	2.579	10.1	20.5
11 27	1 59.52	+ 0 57.7	1.722	2.572	13.7	20.7
12 7	1 56.50	+ 0 51.8	1.805	2.566	16.7	20.9

159705 2002 RU_{244} 10 30.1 90°.96 2°.3/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.27	+ 7 50.2	2.383	3.251	10.3	20.6
10 8	2 33.89	+ 7 9.0	2.330	3.265	7.3	20.4
10 18	2 27.14	+ 6 25.6	2.304	3.279	4.2	20.3
10 28	2 19.65	+ 5 43.9	2.306	3.294	2.3	20.2
11 7	2 12.19	+ 5 8.0	2.339	3.308	4.3	20.3
11 17	2 5.44	+ 4 41.2	2.399	3.322	7.2	20.5
11 27	2 0.04	+ 4 26.2	2.487	3.335	10.0	20.7
12 7	1 56.38	+ 4 23.8	2.597	3.349	12.4	20.9

212280 2005 LK_{1} 10 30.1 192°.17 3°.7/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.16	+ 5 53.1	2.019	2.893	11.6	20.9
10 8	2 34.82	+ 4 47.5	1.956	2.893	8.4	20.7
10 18	2 27.79	+ 3 39.5	1.918	2.892	5.2	20.5
10 28	2 19.78	+ 2 35.1	1.909	2.891	3.7	20.5
11 7	2 11.69	+ 1 40.1	1.928	2.889	5.8	20.6
11 17	2 4.40	+ 0 59.5	1.975	2.888	9.1	20.8
11 27	1 58.65	+ 0 36.3	2.047	2.886	12.3	21.0
12 7	1 54.95	+ 0 31.4	2.140	2.884	14.9	21.2

284947 2010 EO_{87} 10 30.1 307°.50 0°.6/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.39	+14 28.2	1.616	2.488	14.2	20.6
10 8	2 36.21	+13 54.5	1.545	2.481	10.2	20.4
10 18	2 28.78	+13 9.9	1.496	2.474	5.7	20.1
10 28	2 19.97	+12 18.7	1.474	2.467	1.0	19.8
11 7	2 10.95	+11 26.8	1.479	2.461	4.2	20.0
11 17	2 2.88	+10 40.7	1.512	2.454	8.9	20.2
11 27	1 56.78	+10 6.4	1.569	2.448	13.1	20.5
12 7	1 53.27	+ 9 47.5	1.647	2.442	16.7	20.7

449639 2014 KJ_{27} 10 30.1 46°.40 10°.2/21.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.65	−11 46.4	1.732	2.598	13.6	20.4
10 8	2 34.53	−13 25.0	1.703	2.609	11.5	20.2
10 18	2 27.61	−14 47.8	1.698	2.620	10.3	20.2
10 28	2 19.74	−15 46.0	1.718	2.631	10.5	20.2
11 7	2 11.96	−16 14.5	1.761	2.643	12.0	20.4
11 17	2 5.18	−16 11.8	1.827	2.655	14.1	20.5
11 27	2 0.19	−15 40.0	1.913	2.667	16.2	20.7
12 7	1 57.42	−14 43.6	2.016	2.680	18.0	20.9

137237 1999 RG_{26} 10 30.1 9°.55 1°.4/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.82	+14 47.3	0.761	1.674	21.1	18.2
10 8	2 35.75	+15 28.4	0.722	1.676	15.5	17.9
10 18	2 29.00	+15 56.3	0.700	1.682	9.0	17.6
10 28	2 20.03	+16 12.2	0.697	1.690	2.3	17.2
11 7	2 10.92	+16 20.3	0.715	1.701	5.3	17.5
11 17	2 3.66	+16 26.8	0.753	1.714	11.7	17.9
11 27	1 59.76	+16 38.6	0.810	1.730	17.3	18.2
12 7	1 59.84	+17 0.2	0.884	1.748	21.9	18.6

47588 2000 AM_{201} 10 30.1 339°.24 22°.0/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 30.31	−25 55.3	0.922	1.795	22.1	17.0
10 8	2 29.41	−29 37.8	0.895	1.768	22.3	16.9
10 18	2 25.41	−32 39.2	0.884	1.743	23.5	16.8
10 28	2 19.42	−34 39.4	0.887	1.720	25.3	16.9
11 7	2 13.06	−35 28.0	0.902	1.699	27.5	17.0
11 17	2 8.02	−35 4.2	0.928	1.681	29.7	17.1
11 27	2 5.68	−33 34.5	0.961	1.666	31.7	17.2
12 7	2 6.75	−31 10.2	1.000	1.653	33.3	17.3

448526 2010 OJ_{93} 10 30.1 346°.86 1°.8/31.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.73	+22 19.6	1.828	2.677	13.8	20.8
10 8	2 34.11	+21 38.4	1.754	2.673	10.3	20.6
10 18	2 27.51	+20 39.9	1.703	2.671	6.4	20.4
10 28	2 19.75	+19 27.2	1.679	2.668	2.5	20.1
11 7	2 11.86	+18 6.0	1.683	2.666	3.4	20.2
11 17	2 4.86	+16 43.7	1.715	2.664	7.4	20.4
11 27	1 59.63	+15 28.2	1.773	2.662	11.3	20.7
12 7	1 56.72	+14 25.5	1.854	2.661	14.6	20.9

487308 2014 QW_{106} 10 30.1 44°.72 5°.9/ 4.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 42.54	+32 40.7	2.102	2.893	14.3	21.0
10 8	2 36.83	+32 59.5	2.028	2.897	11.7	20.9
10 18	2 29.05	+32 58.2	1.976	2.901	8.9	20.7
10 28	2 20.03	+32 35.5	1.950	2.905	6.6	20.6
11 7	2 10.83	+31 53.2	1.950	2.909	6.0	20.5
11 17	2 2.54	+30 56.1	1.978	2.914	7.6	20.7
11 27	1 56.08	+29 51.3	2.032	2.918	10.2	20.8
12 7	1 52.04	+28 46.3	2.111	2.923	12.9	21.0

41643 2000 SH_{268} 10 30.1 199°.60 0°.4/29.9 18

9 28	2 47.34	+13 43.9	1.561	2.426	14.9	19.5
10 8	2 40.57	+13 33.1	1.492	2.424	10.8	19.3
10 18	2 31.28	+13 13.3	1.446	2.422	6.1	19.0
10 28	2 20.43	+12 47.4	1.426	2.419	1.1	18.6
11 7	2 9.35	+12 20.0	1.434	2.416	4.2	18.9
11 17	1 59.37	+11 56.5	1.470	2.412	9.2	19.2
11 27	1 51.61	+11 42.2	1.531	2.408	13.5	19.4
12 7	1 46.75	+11 40.6	1.613	2.404	17.2	19.7

517095 2013 CJ_{214} 10 30.1 267°.34 1°.8/28.7 18

9 28	2 40.41	+11 30.0	1.893	2.764	12.4	21.6
10 8	2 35.20	+10 42.7	1.820	2.757	8.9	21.4
10 18	2 28.10	+ 9 47.9	1.772	2.750	5.0	21.2
10 28	2 19.86	+ 8 50.5	1.751	2.742	1.8	20.9
11 7	2 11.46	+ 7 56.1	1.759	2.735	4.5	21.1
11 17	2 3.86	+ 7 10.5	1.795	2.728	8.5	21.3
11 27	1 57.92	+ 6 38.2	1.856	2.720	12.1	21.5
12 7	1 54.20	+ 6 21.9	1.939	2.713	15.3	21.7

410672 2008 TC_{97} 10 30.1 126°.99 1°.3/31.5 18

9 28	2 38.87	+20 31.5	2.543	3.382	10.7	21.1
10 8	2 33.68	+20 3.7	2.472	3.388	7.9	21.0
10 18	2 27.07	+19 25.1	2.427	3.393	4.8	20.8
10 28	2 19.67	+18 37.8	2.409	3.399	1.8	20.6
11 7	2 12.21	+17 45.3	2.422	3.404	2.6	20.7
11 17	2 5.41	+16 52.2	2.465	3.410	5.7	20.9
11 27	1 59.93	+16 2.9	2.535	3.415	8.7	21.1
12 7	1 56.20	+15 21.5	2.630	3.420	11.3	21.3

35420 1998 AG_{6} 10 30.1 3°.51 5°.6/25.5 18

9 28	2 37.47	+ 3 8.3	1.573	2.464	13.4	17.3
10 8	2 33.24	+ 1 42.8	1.521	2.464	9.8	17.1
10 18	2 27.02	+ 0 17.3	1.492	2.464	6.6	16.9
10 28	2 19.66	− 0 59.7	1.490	2.465	5.7	16.9
11 7	2 12.24	− 2 0.0	1.513	2.466	8.1	17.0
11 17	2 5.78	− 2 38.2	1.562	2.468	11.5	17.2
11 27	2 1.15	− 2 51.6	1.633	2.471	14.9	17.5
12 7	1 58.85	− 2 41.2	1.723	2.475	17.7	17.7

216160 2006 SK_{334} 10 30.1 340°.37 1°.5/29.0 18

9 28	2 41.18	+11 18.3	1.718	2.592	13.3	20.1
10 8	2 35.90	+10 51.8	1.651	2.588	9.6	19.9
10 18	2 28.54	+10 18.9	1.607	2.585	5.3	19.6
10 28	2 19.94	+ 9 43.5	1.590	2.582	1.6	19.4
11 7	2 11.18	+ 9 10.8	1.601	2.579	4.4	19.6
11 17	2 3.32	+ 8 45.8	1.639	2.577	8.7	19.8
11 27	1 57.31	+ 8 32.6	1.702	2.575	12.6	20.1
12 7	1 53.71	+ 8 33.5	1.786	2.573	15.9	20.3

265087 2003 SR_{235} 10 30.1 36°.19 3°.8/ 2.2 18

9 28	2 42.17	+25 35.2	2.092	2.917	13.2	20.1
10 8	2 36.44	+25 52.4	2.023	2.922	10.3	19.9
10 18	2 28.79	+25 54.6	1.976	2.927	7.1	19.7
10 28	2 19.99	+25 41.5	1.956	2.933	4.3	19.6
11 7	2 11.03	+25 15.6	1.964	2.939	4.2	19.6
11 17	2 2.91	+24 40.8	2.000	2.945	6.9	19.8
11 27	1 56.50	+24 2.9	2.063	2.951	10.0	20.0
12 7	1 52.36	+23 27.7	2.150	2.957	12.8	20.2

163276 2002 GT_{107} 10 30.1 80°.21 1°.8/29.2 18

9 28	2 47.70	+ 8 59.1	1.657	2.525	14.1	19.5
10 8	2 40.44	+ 9 2.4	1.606	2.540	10.1	19.3
10 18	2 31.00	+ 9 2.6	1.578	2.555	5.6	19.1
10 28	2 20.36	+ 9 2.7	1.578	2.570	1.9	18.9
11 7	2 9.74	+ 9 6.0	1.607	2.585	4.6	19.1
11 17	2 0.30	+ 9 15.5	1.664	2.599	8.8	19.4
11 27	1 52.98	+ 9 33.7	1.746	2.614	12.6	19.6
12 7	1 48.30	+10 1.9	1.850	2.629	15.7	19.9

364529 2007 EL_{213} 10 30.1 343°.11 2°.3/27.9 18

9 28	2 37.87	+10 27.4	1.977	2.852	11.8	20.9
10 8	2 33.25	+ 9 20.0	1.911	2.850	8.4	20.7
10 18	2 26.94	+ 8 6.0	1.870	2.848	4.8	20.4
10 28	2 19.66	+ 6 50.9	1.857	2.846	2.3	20.3
11 7	2 12.28	+ 5 41.4	1.872	2.844	4.8	20.4
11 17	2 5.68	+ 4 43.1	1.915	2.842	8.4	20.7
11 27	2 0.61	+ 4 0.6	1.984	2.841	11.8	20.9
12 7	1 57.56	+ 3 35.9	2.074	2.840	14.7	21.1

436204 2009 WY_{245} 10 30.1 55°.52 3°.0/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 34.05	+31 41.4	4.267	5.041	7.9	20.4
10 8	2 29.88	+31 31.6	4.184	5.044	6.4	20.3
10 18	2 24.83	+31 11.3	4.126	5.048	4.8	20.2
10 28	2 19.27	+30 41.0	4.096	5.051	3.4	20.1
11 7	2 13.67	+30 2.0	4.095	5.055	3.1	20.1
11 17	2 8.46	+29 16.7	4.124	5.059	4.1	20.2
11 27	2 4.06	+28 28.0	4.182	5.062	5.6	20.3
12 7	2 0.77	+27 39.1	4.268	5.066	7.1	20.4

266812 2009 SL_{361} 10 30.1 344°.93 4°.8/ 2.9 17

9 28	2 41.41	+28 11.7	1.999	2.816	14.0	20.0
10 8	2 36.09	+28 30.0	1.921	2.812	11.1	19.8
10 18	2 28.69	+28 30.8	1.865	2.808	8.0	19.6
10 28	2 19.99	+28 13.3	1.834	2.805	5.4	19.4
11 7	2 11.03	+27 39.4	1.831	2.802	5.0	19.4
11 17	2 2.91	+26 53.7	1.856	2.800	7.4	19.5
11 27	1 56.58	+26 2.9	1.907	2.797	10.6	19.7
12 7	1 52.66	+25 13.8	1.981	2.796	13.5	19.9

518750 2009 SG_{238} 10 30.1 82°.12 1°.8/28.7 18

9 28	2 42.14	+ 8 44.9	2.162	3.028	11.3	20.5
10 8	2 36.14	+ 8 31.9	2.102	3.036	8.1	20.3
10 18	2 28.50	+ 8 16.2	2.067	3.043	4.6	20.1
10 28	2 19.93	+ 8 1.0	2.060	3.051	1.8	19.9
11 7	2 11.32	+ 7 49.4	2.083	3.058	4.0	20.1
11 17	2 3.50	+ 7 44.6	2.135	3.066	7.5	20.3
11 27	1 57.20	+ 7 48.9	2.213	3.073	10.6	20.5
12 7	1 52.91	+ 8 3.6	2.314	3.081	13.3	20.7

157931 1999 VC_{149} 10 30.1 320°.02 0°.3/29.9 18

9 28	2 38.15	+15 43.8	1.870	2.737	12.7	20.1
10 8	2 33.69	+15 2.9	1.789	2.723	9.2	19.9
10 18	2 27.31	+14 10.6	1.733	2.709	5.2	19.6
10 28	2 19.74	+13 10.7	1.703	2.696	0.9	19.3
11 7	2 11.95	+12 8.8	1.701	2.683	3.6	19.4
11 17	2 4.90	+11 11.3	1.728	2.671	7.9	19.7
11 27	1 59.50	+10 24.0	1.779	2.659	11.8	19.9
12 7	1 56.33	+ 9 51.1	1.853	2.647	15.1	20.1

212277 2005 KN_{5} 10 30.1 220°.51 0°.5/29.8 18

9 28	2 43.00	+13 37.3	2.046	2.905	12.1	21.5
10 8	2 36.98	+13 21.3	1.970	2.900	8.8	21.3
10 18	2 29.09	+12 58.0	1.920	2.895	4.9	21.0
10 28	2 20.05	+12 30.1	1.897	2.890	0.9	20.7
11 7	2 10.84	+12 1.5	1.904	2.884	3.5	20.9
11 17	2 2.39	+11 36.2	1.939	2.879	7.5	21.2
11 27	1 55.58	+11 18.6	2.001	2.872	11.1	21.4
12 7	1 50.97	+11 11.5	2.086	2.866	14.1	21.6

436146 2009 UN_{101} 10 30.1 7°.21 1°.4/28.0 18

9 28	2 33.11	+ 7 38.4	4.120	4.983	6.5	21.4
10 8	2 29.14	+ 7 14.3	4.051	4.983	4.6	21.2
10 18	2 24.40	+ 6 49.1	4.008	4.983	2.6	21.1
10 28	2 19.21	+ 6 24.6	3.996	4.983	1.4	21.0
11 7	2 13.98	+ 6 2.9	4.014	4.984	2.6	21.1
11 17	2 9.08	+ 5 45.9	4.063	4.984	4.6	21.2
11 27	2 4.89	+ 5 35.1	4.139	4.984	6.4	21.4
12 7	2 1.67	+ 5 31.6	4.241	4.985	8.1	21.5

282434 2003 WX_{139} 10 30.1 6°.73 6°.2/ 4.1 18

9 28	2 34.25	+30 49.5	1.090	1.946	20.6	18.3
10 8	2 31.94	+30 25.6	1.034	1.947	16.5	18.0
10 18	2 26.67	+29 26.2	0.995	1.950	11.8	17.8
10 28	2 19.64	+27 52.7	0.978	1.955	7.5	17.5
11 7	2 12.49	+25 53.7	0.983	1.962	6.5	17.5
11 17	2 6.78	+23 43.1	1.012	1.971	9.8	17.7
11 27	2 3.74	+21 37.0	1.063	1.981	14.3	18.0
12 7	2 3.93	+19 48.2	1.135	1.994	18.5	18.3

474503 2003 UA_{60} 10 30.1 50°.28 4°.9/ 3.3 18

9 28	2 43.56	+29 53.8	1.389	2.219	18.4	20.3
10 8	2 37.80	+29 15.6	1.347	2.248	14.3	20.1
10 18	2 29.56	+28 9.8	1.326	2.276	9.8	19.9
10 28	2 20.11	+26 39.4	1.328	2.305	5.9	19.8
11 7	2 10.94	+24 52.7	1.357	2.335	5.2	19.8
11 17	2 3.33	+23 0.8	1.413	2.364	8.4	20.1
11 27	1 58.22	+21 15.4	1.494	2.394	12.3	20.4
12 7	1 56.00	+19 45.3	1.598	2.424	15.7	20.7

217667 1998 ST_{127} 10 30.1 22°.32 4°.8/27.7 18

9 28	2 38.70	+ 7 26.2	0.843	1.758	19.2	18.3
10 8	2 35.01	+ 6 31.1	0.817	1.773	13.7	18.1
10 18	2 28.25	+ 5 33.2	0.809	1.791	8.0	17.9
10 28	2 19.90	+ 4 43.0	0.822	1.810	4.8	17.8
11 7	2 11.76	+ 4 9.8	0.856	1.831	8.1	18.0
11 17	2 5.41	+ 3 59.7	0.912	1.854	13.3	18.4
11 27	2 1.95	+ 4 14.3	0.987	1.879	17.9	18.8
12 7	2 1.79	+ 4 51.5	1.079	1.905	21.6	19.1

212847 2007 VD_{19} 10 30.1 269°.95 1°.1/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 41.94	+12 32.6	1.850	2.718	12.8	21.7
10 8	2 36.41	+12 4.2	1.773	2.708	9.3	21.4
10 18	2 28.86	+11 27.9	1.721	2.698	5.2	21.2
10 28	2 20.04	+10 47.7	1.695	2.688	1.3	20.9
11 7	2 11.00	+10 8.3	1.698	2.677	4.1	21.1
11 17	2 2.76	+ 9 34.9	1.729	2.667	8.3	21.3
11 27	1 56.26	+ 9 12.3	1.785	2.657	12.2	21.5
12 7	1 52.10	+ 9 3.4	1.864	2.646	15.5	21.7

37203 2000 WS_{98} 10 30.1 62°.83 4°.9/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.04	+ 0 22.2	1.982	2.855	11.9	17.0
10 8	2 36.11	− 0 11.0	1.933	2.864	8.8	16.8
10 18	2 28.49	− 0 40.2	1.908	2.874	6.0	16.7
10 28	2 19.96	− 1 0.5	1.911	2.884	4.9	16.6
11 7	2 11.44	− 1 8.0	1.942	2.895	6.6	16.8
11 17	2 3.81	− 1 0.3	2.001	2.905	9.5	16.9
11 27	1 57.81	− 0 36.8	2.084	2.915	12.4	17.2
12 7	1 53.90	+ 0 1.6	2.188	2.926	14.8	17.4

201194 2002 PR_{94} 10 30.1 96°.71 7°.1/24.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.79	− 4 2.3	1.813	2.686	12.8	20.0
10 8	2 36.06	− 5 10.7	1.767	2.693	9.9	19.8
10 18	2 28.51	− 6 11.4	1.746	2.699	7.7	19.7
10 28	2 19.96	− 6 57.3	1.752	2.706	7.3	19.7
11 7	2 11.43	− 7 22.8	1.784	2.712	9.0	19.8
11 17	2 3.85	− 7 25.3	1.841	2.719	11.7	20.0
11 27	1 58.03	− 7 4.7	1.921	2.725	14.4	20.2
12 7	1 54.43	− 6 23.6	2.021	2.731	16.7	20.4

218841 2006 US_{87} 10 30.1 123°.48 1°.3/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.82	+19 30.0	1.649	2.501	14.9	20.6
10 8	2 39.23	+19 5.4	1.591	2.514	11.0	20.4
10 18	2 30.40	+18 25.9	1.555	2.525	6.5	20.2
10 28	2 20.30	+17 34.6	1.546	2.537	2.0	19.9
11 7	2 10.19	+16 37.0	1.565	2.548	3.6	20.0
11 17	2 1.26	+15 40.0	1.612	2.559	8.1	20.3
11 27	1 54.48	+14 50.5	1.685	2.569	12.1	20.6
12 7	1 50.38	+14 13.6	1.781	2.578	15.5	20.9

121496 1999 TB_{269} 10 30.1 332°.78 4°.2/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.45	+28 14.4	1.912	2.735	14.4	19.1
10 8	2 34.72	+27 59.4	1.831	2.728	11.3	18.9
10 18	2 27.93	+27 24.1	1.773	2.722	7.9	18.7
10 28	2 19.88	+26 29.0	1.740	2.715	4.9	18.5
11 7	2 11.63	+25 18.0	1.734	2.710	4.6	18.5
11 17	2 4.26	+23 57.5	1.756	2.704	7.4	18.6
11 27	1 58.69	+22 35.9	1.804	2.699	10.8	18.8
12 7	1 55.51	+21 20.9	1.876	2.694	14.0	19.0

39244 2000 YS_{77} 10 30.1 78°.26 4°.2/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.67	+28 35.3	2.103	2.915	13.6	18.6
10 8	2 36.03	+28 28.0	2.037	2.926	10.7	18.5
10 18	2 28.52	+28 2.4	1.993	2.938	7.5	18.3
10 28	2 19.97	+27 19.2	1.976	2.949	4.8	18.1
11 7	2 11.37	+26 21.7	1.987	2.960	4.4	18.1
11 17	2 3.70	+25 15.7	2.027	2.972	6.8	18.3
11 27	1 57.76	+24 7.9	2.094	2.983	9.8	18.5
12 7	1 54.07	+23 5.1	2.185	2.994	12.6	18.7

442927 2013 CQ_{51} 10 30.1 175°.18 2°.1/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.44	+21 16.6	1.985	2.828	13.2	21.6
10 8	2 36.68	+21 7.6	1.912	2.828	9.9	21.4
10 18	2 28.95	+20 45.0	1.863	2.829	6.1	21.2
10 28	2 20.06	+20 10.3	1.841	2.829	2.6	21.0
11 7	2 11.02	+19 27.2	1.847	2.829	3.4	21.0
11 17	2 2.83	+18 40.7	1.882	2.829	7.1	21.3
11 27	1 56.38	+17 56.8	1.944	2.829	10.7	21.5
12 7	1 52.22	+17 20.8	2.029	2.829	13.8	21.7

392631 2011 UH_{72} 10 30.1 105°.07 0°.5/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.18	+15 38.8	2.053	2.902	12.5	20.9
10 8	2 39.11	+15 44.5	1.996	2.919	9.1	20.7
10 18	2 30.20	+15 42.1	1.963	2.936	5.2	20.5
10 28	2 20.27	+15 33.3	1.960	2.952	1.2	20.3
11 7	2 10.33	+15 20.9	1.986	2.968	3.1	20.5
11 17	2 1.34	+15 8.3	2.041	2.983	7.0	20.7
11 27	1 54.12	+14 59.6	2.124	2.999	10.4	21.0
12 7	1 49.15	+14 57.8	2.230	3.013	13.2	21.2

473562 2015 XL_{213} 10 30.1 139°.63 2°.9/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.78	+25 38.0	2.281	3.105	12.3	21.0
10 8	2 34.58	+25 17.3	2.204	3.105	9.5	20.8
10 18	2 27.70	+24 41.1	2.151	3.106	6.3	20.6
10 28	2 19.84	+23 50.6	2.125	3.107	3.5	20.4
11 7	2 11.87	+22 49.3	2.129	3.107	3.5	20.4
11 17	2 4.67	+21 42.7	2.161	3.108	6.3	20.6
11 27	1 58.98	+20 36.8	2.221	3.108	9.4	20.8
12 7	1 55.30	+19 37.3	2.305	3.109	12.2	21.0

292093 2006 RB_{40} 10 30.1 13°.47 4°.2/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 39.23	+ 6 19.4	1.413	2.304	14.6	19.5
10 8	2 34.68	+ 5 24.9	1.363	2.308	10.5	19.3
10 18	2 27.91	+ 4 28.1	1.335	2.313	6.3	19.0
10 28	2 19.88	+ 3 36.2	1.333	2.318	4.2	18.9
11 7	2 11.80	+ 2 56.5	1.356	2.324	6.8	19.1
11 17	2 4.83	+ 2 34.2	1.404	2.331	10.9	19.4
11 27	1 59.92	+ 2 32.2	1.475	2.339	14.7	19.6
12 7	1 57.61	+ 2 50.4	1.566	2.348	18.0	19.9

454034 2012 FD_{31} 10 30.1 166°.59 3°.3/26.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 37.97	+ 2 56.3	2.969	3.834	8.6	22.2
10 8	2 32.81	+ 2 2.0	2.908	3.839	6.3	22.0
10 18	2 26.53	+ 1 8.2	2.875	3.843	4.1	21.9
10 28	2 19.62	+ 0 18.9	2.872	3.846	3.3	21.8
11 7	2 12.69	− 0 22.3	2.898	3.849	4.8	21.9
11 17	2 6.29	− 0 52.5	2.954	3.852	7.0	22.1
11 27	2 0.94	− 1 9.9	3.037	3.854	9.3	22.3
12 7	1 57.00	− 1 14.0	3.142	3.856	11.2	22.4

227167 2005 QJ_{36} 10 30.1 38°.98 3°.5/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.85	+20 59.1	1.074	1.946	19.7	19.5
10 8	2 40.69	+21 25.1	1.038	1.968	14.7	19.3
10 18	2 31.42	+21 31.1	1.022	1.991	9.2	19.1
10 28	2 20.49	+21 17.8	1.028	2.016	4.2	18.9
11 7	2 9.73	+20 50.5	1.058	2.041	5.0	19.0
11 17	2 0.80	+20 16.9	1.113	2.067	9.9	19.4
11 27	1 54.90	+19 46.1	1.190	2.093	14.5	19.7
12 7	1 52.51	+19 24.9	1.287	2.120	18.3	20.0

506810 2007 RH_{32} 10 30.1 40°.87 3°.6/28.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.49	+ 7 35.7	0.882	1.784	20.0	19.9
10 8	2 41.17	+ 7 19.6	0.857	1.807	14.3	19.7
10 18	2 31.63	+ 7 1.1	0.850	1.831	8.1	19.4
10 28	2 20.51	+ 6 46.8	0.865	1.856	3.7	19.3
11 7	2 9.78	+ 6 43.1	0.904	1.881	7.1	19.6
11 17	2 1.14	+ 6 54.4	0.965	1.908	12.5	20.0
11 27	1 55.74	+ 7 22.4	1.046	1.935	17.3	20.3
12 7	1 53.95	+ 8 6.3	1.145	1.963	21.1	20.7

469894 2005 VM_{124} 10 30.1 35°.44 6°.3/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.59	+ 0 35.4	1.039	1.934	18.3	19.6
10 8	2 40.89	+ 0 25.7	1.013	1.957	13.4	19.4
10 18	2 31.36	+ 0 23.8	1.007	1.980	8.7	19.2
10 28	2 20.47	+ 0 36.0	1.023	2.004	6.3	19.1
11 7	2 9.92	+ 1 5.8	1.064	2.030	8.7	19.4
11 17	2 1.21	+ 1 53.8	1.129	2.056	12.9	19.7
11 27	1 55.40	+ 2 58.3	1.214	2.084	16.9	20.0
12 7	1 52.89	+ 4 16.1	1.318	2.111	20.2	20.3

151897 2004 DK_{16} 10 30.1 242°.41 1°.3/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.77	+12 57.2	1.683	2.551	13.9	20.6
10 8	2 37.92	+12 15.0	1.605	2.540	10.0	20.3
10 18	2 29.80	+11 22.9	1.552	2.529	5.6	20.0
10 28	2 20.25	+10 25.4	1.525	2.517	1.5	19.7
11 7	2 10.42	+ 9 28.9	1.526	2.505	4.6	19.9
11 17	2 1.50	+ 8 40.0	1.555	2.492	9.2	20.2
11 27	1 54.54	+ 8 4.6	1.609	2.479	13.4	20.4
12 7	1 50.17	+ 7 46.0	1.685	2.466	16.9	20.6

342396 2008 UV_{50} 10 30.1 352°.36 0°.3/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.91	+15 27.1	1.292	2.175	16.2	21.0
10 8	2 35.56	+14 55.3	1.229	2.170	11.8	20.7
10 18	2 28.60	+14 9.8	1.187	2.166	6.7	20.5
10 28	2 20.04	+13 15.3	1.170	2.163	1.1	20.1
11 7	2 11.26	+12 19.1	1.178	2.161	4.6	20.3
11 17	2 3.64	+11 29.4	1.211	2.159	9.9	20.6
11 27	1 58.35	+10 53.3	1.267	2.159	14.6	20.9
12 7	1 56.03	+10 35.1	1.342	2.159	18.6	21.2

227974 2007 HX_{48} 10 30.1 145°.45 1°.0/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.71	+12 10.2	2.330	3.192	10.7	21.4
10 8	2 34.38	+11 39.9	2.262	3.194	7.7	21.2
10 18	2 27.53	+11 4.0	2.220	3.196	4.3	21.0
10 28	2 19.83	+10 25.6	2.206	3.198	1.1	20.8
11 7	2 12.04	+ 9 48.7	2.222	3.200	3.4	21.0
11 17	2 4.94	+ 9 17.2	2.267	3.202	6.8	21.2
11 27	1 59.22	+ 8 54.6	2.339	3.204	10.0	21.4
12 7	1 55.33	+ 8 43.1	2.435	3.206	12.6	21.6

487134 2014 OL_{195} 10 30.1 50°.22 9°.9/19.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 37.76	−12 53.5	1.975	2.836	12.5	20.7
10 8	2 33.04	−15 3.9	1.956	2.852	10.7	20.6
10 18	2 26.76	−16 58.2	1.961	2.869	10.0	20.6
10 28	2 19.68	−18 28.0	1.992	2.885	10.4	20.7
11 7	2 12.66	−19 27.8	2.048	2.903	11.8	20.8
11 17	2 6.53	−19 56.0	2.126	2.920	13.6	20.9
11 27	2 1.94	−19 54.1	2.224	2.937	15.3	21.1
12 7	1 59.30	−19 26.1	2.338	2.955	16.8	21.3

397936 2008 XX_6 10 30.1 319°.47 9°.1/24.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 43.15	− 6 10.2	1.421	2.302	15.2	20.1
10 8	2 37.74	− 7 4.3	1.357	2.284	12.1	19.9
10 18	2 29.80	− 7 47.5	1.314	2.267	9.7	19.7
10 28	2 20.27	− 8 10.7	1.296	2.250	9.3	19.6
11 7	2 10.44	− 8 7.1	1.302	2.234	11.3	19.7
11 17	2 1.64	− 7 33.8	1.331	2.219	14.5	19.9
11 27	1 55.02	− 6 31.8	1.381	2.204	17.9	20.1
12 7	1 51.26	− 5 5.5	1.449	2.190	21.0	20.2

510076 2010 JB_{153} 10 30.1 145°.12 5°.9/25.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.29	− 4 16.0	2.303	3.163	10.9	21.5
10 8	2 36.80	− 5 9.3	2.256	3.174	8.4	21.4
10 18	2 28.82	− 5 55.8	2.235	3.185	6.4	21.3
10 28	2 20.06	− 6 30.5	2.242	3.195	6.0	21.2
11 7	2 11.33	− 6 49.2	2.278	3.204	7.5	21.4
11 17	2 3.40	− 6 49.9	2.342	3.213	9.8	21.5
11 27	1 56.96	− 6 32.4	2.430	3.221	12.1	21.7
12 7	1 52.41	− 5 58.3	2.539	3.229	14.1	21.9

411993 2012 JQ_{40} 10 30.1 267°.24 1°.4/28.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 37.90	+12 41.3	2.443	3.305	10.3	21.3
10 8	2 33.13	+11 35.2	2.356	3.289	7.4	21.1
10 18	2 26.88	+10 20.9	2.296	3.273	4.1	20.9
10 28	2 19.74	+ 9 2.7	2.265	3.256	1.4	20.6
11 7	2 12.43	+ 7 46.0	2.264	3.239	3.8	20.8
11 17	2 5.70	+ 6 36.3	2.293	3.222	7.1	21.0
11 27	2 0.22	+ 5 38.5	2.349	3.205	10.3	21.1
12 7	1 56.47	+ 4 55.4	2.429	3.187	13.0	21.3

230575 2003 BN_{83} 10 30.1 299°.22 3°.9/27.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.68	+ 7 26.8	1.438	2.324	14.7	20.1
10 8	2 36.71	+ 6 29.9	1.365	2.308	10.7	19.9
10 18	2 29.24	+ 5 27.4	1.315	2.293	6.4	19.6
10 28	2 20.18	+ 4 26.3	1.291	2.277	3.9	19.4
11 7	2 10.79	+ 3 34.8	1.293	2.262	6.8	19.5
11 17	2 2.37	+ 2 59.7	1.320	2.248	11.4	19.8
11 27	1 56.07	+ 2 45.9	1.370	2.233	15.7	20.0
12 7	1 52.60	+ 2 54.4	1.438	2.219	19.4	20.2

86781 2000 GT_{92} 10 30.1 231°.68 1°.3/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.67	+12 15.7	1.781	2.646	13.4	19.6
10 8	2 38.48	+11 46.1	1.703	2.637	9.7	19.4
10 18	2 30.09	+11 8.6	1.650	2.627	5.4	19.1
10 28	2 20.32	+10 27.0	1.624	2.616	1.4	18.8
11 7	2 10.30	+ 9 46.5	1.627	2.605	4.3	19.0
11 17	2 1.14	+ 9 12.6	1.658	2.594	8.8	19.3
11 27	1 53.87	+ 8 50.0	1.714	2.582	12.8	19.5
12 7	1 49.10	+ 8 41.9	1.792	2.570	16.2	19.7

179933 2002 VW_{79} 10 30.1 329°.68 3°.4/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 37.79	+ 8 49.1	1.358	2.252	14.9	19.8
10 8	2 34.09	+ 7 58.2	1.280	2.227	10.8	19.5
10 18	2 27.86	+ 6 59.6	1.223	2.203	6.3	19.1
10 28	2 19.95	+ 6 0.1	1.191	2.180	3.4	18.9
11 7	2 11.60	+ 5 8.0	1.184	2.158	6.6	19.0
11 17	2 4.14	+ 4 30.9	1.202	2.138	11.4	19.3
11 27	1 58.78	+ 4 14.6	1.242	2.118	16.1	19.5
12 7	1 56.29	+ 4 21.1	1.300	2.100	20.0	19.7

336090 2008 GL_{109} 10 30.1 76°.77 1°.9/28.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.17	+12 51.8	1.456	2.331	15.2	21.5
10 8	2 37.99	+11 45.8	1.416	2.355	10.8	21.3
10 18	2 29.64	+10 30.8	1.399	2.378	5.9	21.1
10 28	2 20.20	+ 9 13.9	1.409	2.401	1.9	20.9
11 7	2 10.95	+ 8 3.0	1.446	2.423	5.0	21.1
11 17	2 3.03	+ 7 5.5	1.510	2.446	9.5	21.5
11 27	1 57.32	+ 6 26.1	1.599	2.468	13.5	21.8
12 7	1 54.27	+ 6 6.5	1.708	2.490	16.7	22.0

45623 2000 DT_{93} 10 30.1 163°.22 4°.2/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.64	+ 1 20.9	2.474	3.344	9.9	19.3
10 8	2 33.50	+ 0 27.9	2.415	3.346	7.3	19.2
10 18	2 27.00	− 0 23.2	2.382	3.348	5.0	19.0
10 28	2 19.75	− 1 7.8	2.378	3.349	4.2	19.0
11 7	2 12.45	− 1 41.7	2.403	3.351	5.8	19.1
11 17	2 5.78	− 2 1.9	2.456	3.352	8.3	19.3
11 27	2 0.37	− 2 6.7	2.534	3.353	10.8	19.4
12 7	1 56.63	− 1 56.1	2.634	3.354	13.0	19.6

514545 2017 EO_{18} 10 30.1 195°.57 9°.8/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.36	−20 9.8	2.476	3.294	11.6	20.8
10 8	2 35.44	−21 9.7	2.437	3.294	10.4	20.7
10 18	2 28.08	−21 53.0	2.422	3.293	9.8	20.6
10 28	2 19.94	−22 13.9	2.431	3.292	10.1	20.7
11 7	2 11.81	−22 9.6	2.465	3.291	11.0	20.7
11 17	2 4.44	−21 39.6	2.522	3.290	12.4	20.8
11 27	1 58.47	−20 45.7	2.600	3.289	13.9	21.0
12 7	1 54.34	−19 31.7	2.695	3.287	15.2	21.1

111361 2001 XP_{120} 10 30.1 98°.67 1°.3/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 41.50	+11 48.6	1.989	2.856	12.1	20.2
10 8	2 35.86	+11 19.4	1.927	2.861	8.7	20.0
10 18	2 28.45	+10 44.1	1.890	2.867	4.8	19.8
10 28	2 20.03	+10 6.5	1.880	2.872	1.3	19.5
11 7	2 11.54	+ 9 31.0	1.899	2.877	3.9	19.7
11 17	2 3.90	+ 9 2.0	1.947	2.883	7.7	20.0
11 27	1 57.90	+ 8 43.4	2.021	2.888	11.2	20.2
12 7	1 54.02	+ 8 37.3	2.117	2.893	14.1	20.4

66097 1998 SB_{11} 10 30.1 333°.65 4°.9/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.49	+28 36.7	1.983	2.798	14.2	18.6
10 8	2 36.22	+28 52.7	1.903	2.793	11.3	18.4
10 18	2 28.84	+28 50.6	1.844	2.787	8.2	18.2
10 28	2 20.12	+28 29.5	1.812	2.782	5.5	18.1
11 7	2 11.13	+27 51.6	1.806	2.777	5.1	18.0
11 17	2 2.97	+27 1.4	1.828	2.772	7.5	18.2
11 27	1 56.62	+26 5.9	1.877	2.768	10.7	18.4
12 7	1 52.71	+25 12.3	1.948	2.764	13.7	18.5

489160 2006 EK_{38} 10 30.1 272°.27 0°.5/29.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.95	+13 38.3	2.312	3.172	10.9	22.3
10 8	2 34.71	+13 14.3	2.228	3.158	7.9	22.1
10 18	2 27.83	+12 43.2	2.169	3.144	4.4	21.9
10 28	2 19.95	+12 7.9	2.138	3.131	0.8	21.6
11 7	2 11.85	+11 32.0	2.137	3.117	3.2	21.7
11 17	2 4.36	+10 59.6	2.164	3.103	6.9	21.9
11 27	1 58.24	+10 34.7	2.219	3.089	10.2	22.1
12 7	1 54.02	+10 20.3	2.297	3.075	13.1	22.3

281190 2007 EF_{181} 10 30.1 199°.42 0°.6/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.21	+17 36.0	1.980	2.830	12.9	22.1
10 8	2 37.96	+17 11.0	1.903	2.827	9.4	21.9
10 18	2 29.73	+16 34.5	1.851	2.823	5.5	21.6
10 28	2 20.29	+15 49.0	1.827	2.819	1.3	21.3
11 7	2 10.68	+14 58.9	1.832	2.814	3.3	21.5
11 17	2 1.91	+14 9.9	1.866	2.809	7.4	21.7
11 27	1 54.89	+13 27.5	1.927	2.803	11.2	22.0
12 7	1 50.20	+12 56.2	2.011	2.797	14.4	22.2

175749 1998 QN_{90} 10 30.1 48°.49 4°.4/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.14	+28 52.3	1.407	2.241	18.0	19.0
10 8	2 37.49	+28 11.2	1.366	2.270	13.9	18.9
10 18	2 29.43	+27 3.7	1.345	2.299	9.4	18.7
10 28	2 20.20	+25 33.4	1.348	2.328	5.4	18.5
11 7	2 11.22	+23 48.5	1.378	2.357	4.9	18.6
11 17	2 3.76	+21 59.9	1.435	2.387	8.3	18.9
11 27	1 58.73	+20 18.7	1.518	2.417	12.2	19.2
12 7	1 56.53	+18 53.0	1.623	2.447	15.6	19.4

28402 Matthewkim 10 30.1 125°.75 4°.1/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.47	+26 5.5	1.581	2.413	16.4	18.7
10 8	2 40.00	+26 0.5	1.517	2.422	12.7	18.5
10 18	2 31.00	+25 34.4	1.475	2.430	8.6	18.3
10 28	2 20.52	+24 47.7	1.458	2.438	4.8	18.1
11 7	2 9.94	+23 44.9	1.468	2.446	4.8	18.1
11 17	2 0.61	+22 33.6	1.505	2.454	8.4	18.3
11 27	1 53.64	+21 23.3	1.569	2.461	12.3	18.6
12 7	1 49.60	+20 21.9	1.654	2.467	15.8	18.8

407163 2009 UT_{26} 10 30.1 358°.09 3°.8/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.19	+ 2 35.1	1.694	2.569	13.5	19.1
10 8	2 38.81	+ 2 47.7	1.631	2.566	9.9	18.9
10 18	2 30.25	+ 3 4.5	1.591	2.564	6.1	18.6
10 28	2 20.39	+ 3 28.6	1.578	2.563	3.8	18.5
11 7	2 10.36	+ 4 2.4	1.594	2.562	5.9	18.6
11 17	2 1.30	+ 4 47.2	1.636	2.563	9.7	18.8
11 27	1 54.19	+ 5 43.3	1.704	2.564	13.3	19.1
12 7	1 49.62	+ 6 49.6	1.793	2.566	16.4	19.3

512079 2015 NM_7 10 30.1 180°.08 2°.7/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.38	+ 8 16.9	2.058	2.926	11.7	22.1
10 8	2 36.44	+ 7 21.7	1.993	2.928	8.4	21.9
10 18	2 28.78	+ 6 22.3	1.953	2.928	4.9	21.7
10 28	2 20.12	+ 5 23.9	1.942	2.929	2.7	21.6
11 7	2 11.37	+ 4 32.0	1.960	2.928	5.0	21.7
11 17	2 3.44	+ 3 51.5	2.006	2.928	8.5	21.9
11 27	1 57.10	+ 3 25.9	2.079	2.926	11.8	22.1
12 7	1 52.85	+ 3 16.6	2.173	2.924	14.5	22.3

483261 2015 TE_{105} 10 30.2 183°.04 5°.6/25.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.48	− 6 10.1	2.655	3.509	9.9	21.1
10 8	2 36.15	− 6 40.2	2.597	3.509	7.7	20.9
10 18	2 28.48	− 7 3.0	2.565	3.509	6.1	20.8
10 28	2 20.06	− 7 14.6	2.561	3.509	5.7	20.8
11 7	2 11.61	− 7 12.0	2.586	3.508	6.9	20.9
11 17	2 3.80	− 6 53.8	2.639	3.507	8.9	21.0
11 27	1 57.26	− 6 20.1	2.718	3.506	11.1	21.2
12 7	1 52.41	− 5 32.3	2.819	3.504	12.9	21.3

451436 2011 SU_{39} 10 30.2 188°.02 2°.9/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.67	+21 40.4	2.018	2.851	13.3	21.1
10 8	2 39.83	+22 6.7	1.942	2.851	10.1	20.9
10 18	2 30.84	+22 20.9	1.890	2.850	6.5	20.7
10 28	2 20.52	+22 22.5	1.865	2.849	3.3	20.5
11 7	2 9.94	+22 13.3	1.869	2.849	3.8	20.5
11 17	2 0.19	+21 56.6	1.903	2.847	7.2	20.7
11 27	1 52.28	+21 37.8	1.964	2.846	10.7	20.9
12 7	1 46.81	+21 22.0	2.048	2.844	13.8	21.1

103395 2000 AX_{127} 10 30.2 267°.53 4°.3/27.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.75	+ 6 8.8	1.555	2.436	14.1	19.2
10 8	2 37.31	+ 5 4.7	1.483	2.423	10.2	18.9
10 18	2 29.54	+ 3 56.4	1.435	2.410	6.3	18.7
10 28	2 20.30	+ 2 51.2	1.413	2.397	4.4	18.5
11 7	2 10.78	+ 1 57.0	1.419	2.383	7.0	18.7
11 17	2 2.20	+ 1 20.2	1.450	2.370	11.2	18.9
11 27	1 55.63	+ 1 5.0	1.504	2.356	15.2	19.1
12 7	1 51.72	+ 1 12.2	1.578	2.342	18.6	19.3

378574 2008 DY_{53} 10 30.2 210°.37 4°.1/26.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.94	+ 8 6.4	1.872	2.743	12.5	21.4
10 8	2 37.03	+ 6 3.4	1.801	2.737	9.0	21.2
10 18	2 29.19	+ 3 52.4	1.756	2.730	5.5	21.0
10 28	2 20.22	+ 1 42.2	1.741	2.722	4.2	20.9
11 7	2 11.11	− 0 17.0	1.757	2.713	6.8	21.0
11 17	2 2.88	− 1 56.7	1.801	2.703	10.5	21.2
11 27	1 56.37	− 3 11.5	1.871	2.693	13.9	21.4
12 7	1 52.15	− 3 59.7	1.961	2.682	16.8	21.6

154477 2003 EW_{5} 10 30.2 217°.84 0°.9/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.36	+18 11.1	1.909	2.759	13.3	20.7
10 8	2 38.20	+17 50.6	1.830	2.753	9.8	20.4
10 18	2 29.93	+17 17.7	1.774	2.745	5.8	20.2
10 28	2 20.37	+16 34.8	1.746	2.738	1.6	19.9
11 7	2 10.57	+15 46.3	1.747	2.729	3.4	20.0
11 17	2 1.62	+14 57.7	1.776	2.721	7.6	20.3
11 27	1 54.47	+14 15.1	1.832	2.711	11.5	20.5
12 7	1 49.75	+13 43.2	1.911	2.702	14.9	20.7

194960 2002 AM_{171} 10 30.2 345°.66 1°.0/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.17	+16 48.4	1.161	2.047	17.5	19.5
10 8	2 36.15	+16 46.7	1.095	2.036	12.9	19.2
10 18	2 29.17	+16 30.2	1.049	2.027	7.6	18.9
10 28	2 20.26	+16 1.7	1.026	2.018	1.9	18.5
11 7	2 10.95	+15 26.7	1.027	2.011	4.5	18.7
11 17	2 2.85	+14 52.7	1.051	2.005	10.3	19.0
11 27	1 57.33	+14 27.6	1.098	2.001	15.4	19.3
12 7	1 55.16	+14 17.0	1.163	1.998	19.8	19.5

288994 2004 TP_{63} 10 30.2 93°.13 0°.9/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.14	+17 48.7	2.230	3.077	11.7	20.7
10 8	2 36.19	+17 39.5	2.169	3.090	8.6	20.5
10 18	2 28.61	+17 20.9	2.133	3.104	5.0	20.3
10 28	2 20.13	+16 54.8	2.126	3.117	1.4	20.1
11 7	2 11.61	+16 24.6	2.148	3.131	2.8	20.2
11 17	2 3.90	+15 54.3	2.199	3.144	6.4	20.5
11 27	1 57.74	+15 28.0	2.278	3.157	9.6	20.7
12 7	1 53.57	+15 9.3	2.381	3.169	12.3	20.9

254998 2005 TQ_{8} 10 30.2 173°.46 1°.2/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.73	+17 16.6	2.254	3.096	11.8	21.3
10 8	2 38.90	+17 36.2	2.179	3.097	8.7	21.1
10 18	2 30.23	+17 47.8	2.130	3.098	5.2	20.9
10 28	2 20.44	+17 51.9	2.109	3.099	1.7	20.7
11 7	2 10.45	+17 50.3	2.118	3.100	3.0	20.8
11 17	2 1.20	+17 45.9	2.157	3.100	6.6	21.0
11 27	1 53.54	+17 42.3	2.224	3.100	9.9	21.2
12 7	1 48.02	+17 42.9	2.315	3.100	12.8	21.4

403471 2009 TT_{19} 10 30.2 355°.54 0°.3/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.28	+14 19.1	1.739	2.611	13.3	20.8
10 8	2 34.61	+14 0.3	1.672	2.608	9.6	20.5
10 18	2 27.92	+13 32.6	1.628	2.605	5.4	20.3
10 28	2 20.02	+12 59.3	1.610	2.603	0.9	20.0
11 7	2 11.96	+12 25.1	1.619	2.601	3.7	20.2
11 17	2 4.76	+11 55.1	1.656	2.601	8.1	20.4
11 27	1 59.34	+11 34.2	1.718	2.601	12.0	20.7
12 7	1 56.26	+11 25.4	1.801	2.601	15.3	20.9

412786 2014 PB_{17} 10 30.2 94°.39 4°.1/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.79	+27 29.6	2.190	3.003	13.1	21.4
10 8	2 36.89	+27 40.6	2.119	3.009	10.3	21.2
10 18	2 29.12	+27 35.4	2.070	3.015	7.3	21.0
10 28	2 20.23	+27 13.9	2.048	3.021	4.7	20.9
11 7	2 11.21	+26 38.4	2.055	3.027	4.4	20.9
11 17	2 3.01	+25 53.4	2.090	3.033	6.8	21.0
11 27	1 56.49	+25 4.7	2.152	3.038	9.7	21.2
12 7	1 52.19	+24 18.6	2.238	3.044	12.5	21.4

323513 2004 RE_{57} 10 30.2 4°.58 5°.0/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 42.00	+28 19.5	1.846	2.666	14.9	20.2
10 8	2 36.70	+28 39.1	1.773	2.666	11.8	20.0
10 18	2 29.16	+28 39.8	1.723	2.667	8.5	19.8
10 28	2 20.26	+28 20.7	1.697	2.668	5.7	19.6
11 7	2 11.12	+27 44.2	1.698	2.669	5.3	19.6
11 17	2 2.92	+26 55.2	1.726	2.671	7.8	19.8
11 27	1 56.66	+26 1.2	1.780	2.673	11.1	20.0
12 7	1 52.96	+25 9.5	1.857	2.676	14.1	20.2

433413 2013 TV_{46} 10 30.2 196°.19 1°.5/31.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.31	+18 29.8	1.624	2.477	15.1	22.3
10 8	2 40.62	+18 30.4	1.552	2.476	11.2	22.0
10 18	2 31.43	+18 17.8	1.503	2.474	6.7	21.8
10 28	2 20.68	+17 53.6	1.481	2.472	2.2	21.5
11 7	2 9.67	+17 21.5	1.486	2.469	3.8	21.6
11 17	1 59.72	+16 47.2	1.519	2.466	8.5	21.9
11 27	1 51.96	+16 17.1	1.578	2.463	12.7	22.1
12 7	1 47.07	+15 56.7	1.659	2.459	16.4	22.3

320289 2007 RM_{201} 10 30.2 185°.21 1°.5/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.62	+19 53.7	2.061	2.904	12.7	21.0
10 8	2 37.51	+19 41.1	1.986	2.904	9.5	20.8
10 18	2 29.49	+19 16.2	1.936	2.903	5.7	20.6
10 28	2 20.33	+18 40.7	1.913	2.903	2.1	20.4
11 7	2 11.00	+17 58.3	1.919	2.902	3.2	20.4
11 17	2 2.51	+17 13.9	1.955	2.900	7.0	20.7
11 27	1 55.70	+16 33.1	2.017	2.898	10.5	20.9
12 7	1 51.14	+16 0.6	2.103	2.896	13.6	21.1

94188 2001 AD_{53} 10 30.2 149°.96 4°.2/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.49	+29 35.7	2.387	3.187	12.6	19.8
10 8	2 35.86	+29 31.6	2.310	3.190	10.0	19.6
10 18	2 28.51	+29 10.7	2.256	3.193	7.2	19.4
10 28	2 20.15	+28 32.9	2.228	3.196	4.8	19.3
11 7	2 11.67	+27 40.8	2.229	3.199	4.4	19.3
11 17	2 3.95	+26 39.2	2.259	3.201	6.4	19.4
11 27	1 57.79	+25 34.2	2.317	3.204	9.1	19.6
12 7	1 53.68	+24 31.9	2.400	3.206	11.7	19.7

482351 2011 WW_{70} 10 30.2 320°.80 3°.1/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.30	+24 48.0	1.882	2.716	14.1	20.7
10 8	2 36.07	+24 33.0	1.806	2.714	10.8	20.5
10 18	2 28.76	+24 0.5	1.753	2.711	7.1	20.3
10 28	2 20.21	+23 11.5	1.726	2.709	3.8	20.1
11 7	2 11.48	+22 10.2	1.727	2.707	3.9	20.1
11 17	2 3.63	+21 2.7	1.755	2.704	7.3	20.3
11 27	1 57.62	+19 56.8	1.811	2.702	11.0	20.5
12 7	1 54.02	+18 58.9	1.889	2.700	14.2	20.7

470996 2009 SW_{137} 10 30.2 311°.02 2°.5/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.46	+18 15.9	1.346	2.211	16.8	20.4
10 8	2 40.71	+18 50.0	1.265	2.194	12.7	20.1
10 18	2 31.86	+19 12.2	1.206	2.177	7.9	19.8
10 28	2 20.83	+19 21.9	1.171	2.160	3.1	19.4
11 7	2 9.13	+19 20.6	1.162	2.144	4.6	19.5
11 17	1 58.43	+19 12.9	1.178	2.129	9.8	19.7
11 27	1 50.24	+19 5.2	1.218	2.114	14.8	20.0
12 7	1 45.49	+19 4.1	1.278	2.099	19.1	20.2

521672 2015 RH_{240} 10 30.2 314°.09 7°.3/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.92	− 6 2.8	1.998	2.868	11.9	21.0
10 8	2 34.77	− 7 6.5	1.941	2.862	9.5	20.8
10 18	2 27.91	− 8 2.2	1.909	2.855	7.7	20.7
10 28	2 20.05	− 8 43.1	1.903	2.849	7.5	20.7
11 7	2 12.09	− 9 4.0	1.923	2.843	9.1	20.8
11 17	2 4.91	− 9 2.3	1.969	2.837	11.5	20.9
11 27	1 59.27	− 8 37.8	2.038	2.831	14.0	21.1
12 7	1 55.67	− 7 52.7	2.125	2.825	16.3	21.3

41240 1999 XO_{26} 10 30.2 35°.47 1°.0/31.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.42	+19 19.5	1.955	2.809	12.8	18.7
10 8	2 34.50	+18 44.1	1.889	2.814	9.4	18.5
10 18	2 27.77	+17 55.9	1.848	2.819	5.6	18.2
10 28	2 20.03	+16 57.9	1.833	2.825	1.6	18.0
11 7	2 12.22	+15 55.2	1.847	2.830	3.1	18.1
11 17	2 5.26	+14 53.9	1.890	2.836	7.0	18.4
11 27	1 59.95	+14 0.0	1.958	2.843	10.6	18.6
12 7	1 56.79	+13 17.9	2.050	2.849	13.7	18.8

59271 1999 CG_{38} 10 30.2 271°.64 1°.1/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.89	+18 29.0	1.664	2.521	14.6	20.3
10 8	2 38.26	+18 12.9	1.579	2.505	10.8	20.1
10 18	2 30.19	+17 42.8	1.516	2.488	6.5	19.8
10 28	2 20.52	+17 0.6	1.480	2.472	1.9	19.4
11 7	2 10.44	+16 11.0	1.472	2.455	3.7	19.5
11 17	2 1.23	+15 20.3	1.490	2.438	8.5	19.8
11 27	1 54.03	+14 35.8	1.535	2.420	13.0	20.0
12 7	1 49.56	+14 3.2	1.600	2.403	16.8	20.2

234876 2002 SZ_{64} 10 30.2 7°.03 4°.3/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 41.25	+ 4 57.3	1.624	2.506	13.5	20.3
10 8	2 36.03	+ 4 6.7	1.567	2.507	9.8	20.1
10 18	2 28.73	+ 3 15.1	1.533	2.507	6.1	19.9
10 28	2 20.23	+ 2 29.0	1.525	2.508	4.3	19.8
11 7	2 11.64	+ 1 54.6	1.545	2.509	6.7	19.9
11 17	2 4.03	+ 1 36.4	1.590	2.511	10.4	20.2
11 27	1 58.30	+ 1 37.2	1.660	2.512	14.0	20.4
12 7	1 55.02	+ 1 56.8	1.749	2.514	17.0	20.6

126611 2002 CQ_{145} 10 30.2 140°.87 3°.8/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.13	+ 5 36.2	2.018	2.889	11.8	20.8
10 8	2 36.24	+ 4 24.5	1.965	2.900	8.5	20.7
10 18	2 28.67	+ 3 11.2	1.937	2.909	5.3	20.5
10 28	2 20.21	+ 2 2.4	1.938	2.918	3.8	20.4
11 7	2 11.75	+ 1 4.2	1.967	2.927	5.9	20.6
11 17	2 4.16	+ 0 21.2	2.025	2.935	9.1	20.8
11 27	1 58.18	− 0 3.8	2.109	2.942	12.2	21.0
12 7	1 54.26	− 0 10.2	2.213	2.949	14.7	21.2

103777 2000 DG_{5} 10 30.2 84°.18 0°.9/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.97	+17 14.9	1.817	2.673	13.6	19.2
10 8	2 37.88	+17 9.7	1.755	2.680	9.9	19.0
10 18	2 29.74	+16 53.7	1.716	2.688	5.8	18.8
10 28	2 20.42	+16 29.2	1.704	2.696	1.6	18.5
11 7	2 10.99	+15 59.9	1.720	2.703	3.3	18.7
11 17	2 2.54	+15 30.6	1.765	2.711	7.5	18.9
11 27	1 55.97	+15 6.6	1.836	2.719	11.3	19.2
12 7	1 51.83	+14 51.6	1.929	2.726	14.5	19.4

201752 2003 UJ_{323} 10 30.2 271°.53 0°.4/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.93	+16 25.9	1.767	2.627	13.7	20.7
10 8	2 37.28	+16 9.1	1.694	2.623	10.0	20.5
10 18	2 29.49	+15 41.4	1.645	2.620	5.8	20.2
10 28	2 20.39	+15 5.4	1.623	2.616	1.2	19.9
11 7	2 11.08	+14 25.6	1.629	2.612	3.5	20.1
11 17	2 2.68	+13 47.6	1.663	2.608	8.0	20.3
11 27	1 56.15	+13 16.9	1.723	2.605	12.0	20.6
12 7	1 52.10	+12 57.7	1.804	2.601	15.4	20.8

245272 2005 BJ 10 30.2 220°.29 8°.1/23.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.73	− 7 25.0	1.903	2.768	12.6	20.6
10 8	2 36.85	− 8 35.3	1.849	2.764	10.2	20.4
10 18	2 29.11	− 9 35.8	1.819	2.760	8.4	20.3
10 28	2 20.31	−10 19.3	1.816	2.755	8.3	20.3
11 7	2 11.42	−10 40.2	1.838	2.750	9.9	20.4
11 17	2 3.40	−10 36.1	1.886	2.745	12.4	20.5
11 27	1 57.08	−10 7.2	1.957	2.740	14.9	20.7
12 7	1 52.98	− 9 16.4	2.045	2.735	17.1	20.8

214014 2004 CC_{111} 10 30.2 223°.82 0°.7/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.85	+18 2.0	2.182	3.030	11.9	21.3
10 8	2 36.19	+17 36.6	2.101	3.023	8.7	21.1
10 18	2 28.76	+17 0.2	2.044	3.016	5.1	20.9
10 28	2 20.26	+16 15.3	2.016	3.008	1.3	20.6
11 7	2 11.56	+15 25.8	2.018	3.000	3.0	20.7
11 17	2 3.59	+14 36.8	2.048	2.992	6.8	20.9
11 27	1 57.15	+13 53.4	2.106	2.983	10.3	21.2
12 7	1 52.78	+13 19.9	2.188	2.975	13.3	21.3

257957 2001 AY_{45} 10 30.2 316°.95 18°.3/21.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.40	−25 36.4	1.236	2.060	20.6	19.8
10 8	2 44.94	−26 36.5	1.184	2.040	19.1	19.7
10 18	2 34.12	−27 1.1	1.150	2.020	18.3	19.6
10 28	2 21.25	−26 36.7	1.134	2.001	18.5	19.5
11 7	2 8.16	−25 17.0	1.137	1.983	19.8	19.6
11 17	1 56.66	−23 4.1	1.159	1.965	21.9	19.6
11 27	1 48.18	−20 7.2	1.199	1.948	24.2	19.8
12 7	1 43.41	−16 39.6	1.254	1.932	26.5	19.9

357473 2004 FF_{84} 10 30.2 270°.76 5°.4/25.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.57	+ 0 56.9	1.915	2.792	12.0	20.5
10 8	2 35.35	− 0 8.2	1.850	2.784	9.0	20.3
10 18	2 28.30	− 1 11.5	1.809	2.775	6.3	20.1
10 28	2 20.17	− 2 6.5	1.795	2.766	5.5	20.0
11 7	2 11.89	− 2 47.1	1.809	2.757	7.5	20.1
11 17	2 4.38	− 3 9.1	1.850	2.748	10.5	20.3
11 27	1 58.48	− 3 10.3	1.914	2.739	13.6	20.5
12 7	1 54.72	− 2 51.3	1.998	2.730	16.2	20.7

209884 2005 JP_{180} 10 30.2 252°.78 6°.5/25.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.24	− 3 3.0	1.930	2.801	12.2	20.2
10 8	2 36.52	− 4 0.6	1.867	2.793	9.4	20.0
10 18	2 28.95	− 4 52.4	1.829	2.785	7.1	19.9
10 28	2 20.29	− 5 32.0	1.818	2.777	6.6	19.8
11 7	2 11.48	− 5 53.8	1.834	2.768	8.4	19.9
11 17	2 3.49	− 5 54.9	1.876	2.760	11.2	20.1
11 27	1 57.14	− 5 34.3	1.941	2.751	14.0	20.2
12 7	1 52.97	− 4 53.9	2.027	2.742	16.5	20.4

99430 2002 BQ_{1} 10 30.2 155°.19 2°.4/28.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.46	+ 9 13.7	1.613	2.483	14.3	19.6
10 8	2 40.51	+ 8 44.3	1.554	2.489	10.3	19.4
10 18	2 31.27	+ 8 10.3	1.518	2.495	5.8	19.2
10 28	2 20.71	+ 7 36.2	1.510	2.500	2.4	19.0
11 7	2 10.07	+ 7 7.5	1.529	2.504	5.2	19.1
11 17	2 0.55	+ 6 49.0	1.577	2.508	9.5	19.4
11 27	1 53.17	+ 6 44.4	1.649	2.512	13.5	19.7
12 7	1 48.49	+ 6 54.9	1.742	2.515	16.8	19.9

178826 2001 GN_{3} 10 30.2 51°.95 1°.6/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 59.81	+12 43.3	1.225	2.085	18.5	18.3
10 8	2 50.09	+14 18.5	1.175	2.103	13.6	18.0
10 18	2 36.94	+15 48.6	1.148	2.121	7.9	17.8
10 28	2 21.75	+17 9.6	1.148	2.140	2.3	17.5
11 7	2 6.46	+18 18.9	1.176	2.159	4.7	17.7
11 17	1 52.99	+19 17.2	1.233	2.178	10.2	18.1
11 27	1 42.78	+20 8.2	1.314	2.198	14.9	18.4
12 7	1 36.49	+20 56.9	1.416	2.217	18.6	18.7

5255 Johnsophie 10 30.2 171°.42 6°.1/25.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.90	− 1 36.3	1.844	2.718	12.6	17.5
10 8	2 36.99	− 2 26.6	1.789	2.718	9.5	17.4
10 18	2 29.20	− 3 11.7	1.758	2.719	6.9	17.2
10 28	2 20.34	− 3 45.2	1.753	2.719	6.2	17.2
11 7	2 11.41	− 4 2.0	1.776	2.719	8.0	17.3
11 17	2 3.38	− 3 59.2	1.825	2.719	10.9	17.5
11 27	1 57.09	− 3 36.3	1.898	2.719	13.8	17.7
12 7	1 53.06	− 2 54.9	1.991	2.719	16.4	17.8

217241 2003 KK_{15} 10 30.2 78°.87 2°.5/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.33	+ 9 16.8	2.071	2.943	11.5	20.2
10 8	2 34.23	+ 8 14.1	2.018	2.955	8.1	20.0
10 18	2 27.56	+ 7 7.0	1.990	2.966	4.7	19.9
10 28	2 20.04	+ 6 1.0	1.990	2.978	2.5	19.7
11 7	2 12.52	+ 5 1.6	2.019	2.989	4.7	19.9
11 17	2 5.82	+ 4 13.8	2.076	3.000	8.1	20.1
11 27	2 0.62	+ 3 40.9	2.160	3.012	11.2	20.4
12 7	1 57.36	+ 3 24.5	2.265	3.023	13.8	20.6

515254 2012 DW_{96} 10 30.2 165°.38 8°.1/20.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.11	−19 57.9	3.130	3.939	9.7	22.1
10 8	2 35.06	−20 51.3	3.095	3.944	8.6	22.0
10 18	2 27.87	−21 31.1	3.084	3.949	8.1	22.0
10 28	2 20.09	−21 53.2	3.099	3.953	8.3	22.0
11 7	2 12.33	−21 55.0	3.139	3.957	9.1	22.1
11 17	2 5.18	−21 36.1	3.204	3.960	10.3	22.2
11 27	1 59.17	−20 57.5	3.291	3.963	11.5	22.3
12 7	1 54.66	−20 2.0	3.397	3.965	12.6	22.4

98756 2000 YL_{59} 10 30.2 274°.49 1°.6/29.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.51	+11 33.7	1.746	2.617	13.3	19.6
10 8	2 37.03	+10 59.9	1.668	2.604	9.6	19.3
10 18	2 29.40	+10 18.4	1.614	2.592	5.4	19.0
10 28	2 20.41	+ 9 33.7	1.587	2.579	1.7	18.8
11 7	2 11.14	+ 8 51.1	1.589	2.567	4.6	18.9
11 17	2 2.70	+ 8 16.4	1.617	2.554	8.9	19.2
11 27	1 56.09	+ 7 54.3	1.671	2.541	13.0	19.4
12 7	1 51.95	+ 7 47.7	1.746	2.528	16.4	19.6

74637 1999 RS_{56} 10 30.2 347°.72 2°.4/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.60	+12 16.0	1.085	1.983	17.5	18.1
10 8	2 35.75	+11 21.6	1.027	1.976	12.6	17.8
10 18	2 28.96	+10 14.5	0.988	1.970	7.1	17.5
10 28	2 20.34	+ 9 2.5	0.973	1.964	2.4	17.2
11 7	2 11.46	+ 7 55.7	0.981	1.960	6.2	17.4
11 17	2 3.89	+ 7 3.9	1.012	1.957	11.9	17.7
11 27	1 58.92	+ 6 34.1	1.065	1.955	16.9	18.0
12 7	1 57.24	+ 6 28.9	1.135	1.954	21.2	18.3

435447 2008 DU_{68} 10 30.2 229°.62 2°.9/28.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.99	+ 9 23.8	1.751	2.622	13.3	22.4
10 8	2 38.04	+ 8 23.5	1.675	2.612	9.6	22.1
10 18	2 29.94	+ 7 16.2	1.625	2.601	5.5	21.9
10 28	2 20.51	+ 6 7.8	1.601	2.589	2.9	21.7
11 7	2 10.84	+ 5 5.4	1.606	2.577	5.6	21.8
11 17	2 2.04	+ 4 15.4	1.639	2.565	9.7	22.1
11 27	1 55.10	+ 3 42.9	1.697	2.551	13.6	22.3
12 7	1 50.63	+ 3 29.8	1.775	2.537	16.9	22.5

401453 2013 CL_{147} 10 30.2 288°.95 3°.8/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.74	+ 5 50.9	1.834	2.712	12.4	21.0
10 8	2 35.55	+ 4 57.1	1.767	2.706	9.0	20.8
10 18	2 28.46	+ 4 1.1	1.725	2.699	5.5	20.6
10 28	2 20.23	+ 3 8.5	1.710	2.693	3.8	20.5
11 7	2 11.85	+ 2 25.5	1.723	2.687	6.0	20.6
11 17	2 4.29	+ 1 56.8	1.762	2.681	9.6	20.8
11 27	1 58.41	+ 1 45.7	1.827	2.675	13.1	21.0
12 7	1 54.77	+ 1 52.8	1.911	2.669	16.0	21.2

288545 2004 GL_{32} 10 30.2 180°.44 2°.6/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 42.12	+24 45.9	2.426	3.246	11.8	21.3
10 8	2 36.26	+24 26.4	2.347	3.247	9.0	21.1
10 18	2 28.75	+23 52.7	2.292	3.248	5.9	20.9
10 28	2 20.29	+23 5.8	2.265	3.248	3.1	20.7
11 7	2 11.71	+22 9.2	2.268	3.247	3.2	20.8
11 17	2 3.86	+21 7.6	2.301	3.247	6.1	20.9
11 27	1 57.48	+20 6.7	2.362	3.245	9.1	21.1
12 7	1 53.07	+19 11.9	2.448	3.244	11.8	21.3

420030 2011 CT_{117} 10 30.2 305°.00 8°.2/23.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.09	− 9 29.2	2.045	2.904	12.1	20.7
10 8	2 36.44	−10 16.5	1.975	2.884	10.0	20.5
10 18	2 28.96	−10 53.0	1.929	2.864	8.4	20.4
10 28	2 20.34	−11 12.3	1.909	2.843	8.3	20.4
11 7	2 11.51	−11 9.6	1.915	2.823	9.8	20.4
11 17	2 3.39	−10 42.9	1.947	2.804	12.1	20.5
11 27	1 56.83	− 9 52.6	2.001	2.784	14.6	20.6
12 7	1 52.39	− 8 41.8	2.075	2.765	16.9	20.8

135614 2002 JO_{31} 10 30.2 146°.16 0°.9/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.11	+14 49.6	1.658	2.522	14.3	20.2
10 8	2 38.77	+13 54.1	1.598	2.531	10.3	20.0
10 18	2 30.27	+12 47.2	1.562	2.539	5.7	19.7
10 28	2 20.57	+11 34.2	1.554	2.546	1.2	19.5
11 7	2 10.84	+10 22.2	1.574	2.553	4.3	19.7
11 17	2 2.22	+ 9 18.5	1.622	2.560	8.8	20.0
11 27	1 55.64	+ 8 29.2	1.695	2.566	12.8	20.2
12 7	1 51.64	+ 7 57.5	1.790	2.571	16.1	20.5

378177 2006 WY_{167} 10 30.2 257°.71 1°.5/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.85	+11 52.8	1.627	2.497	14.2	22.0
10 8	2 38.92	+11 21.8	1.547	2.483	10.3	21.8
10 18	2 30.57	+10 42.2	1.491	2.468	5.8	21.5
10 28	2 20.66	+ 9 58.5	1.461	2.453	1.7	21.2
11 7	2 10.39	+ 9 16.3	1.459	2.437	4.7	21.4
11 17	2 1.01	+ 8 41.8	1.484	2.422	9.5	21.6
11 27	1 53.65	+ 8 20.2	1.534	2.406	13.8	21.8
12 7	1 49.00	+ 8 14.8	1.605	2.389	17.5	22.0

11165 1998 DE_5 10 30.2 40°.41 1°.7/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.30	+18 8.0	1.291	2.161	17.1	16.9
10 8	2 39.37	+18 15.7	1.244	2.176	12.6	16.7
10 18	2 30.77	+18 8.9	1.219	2.192	7.5	16.5
10 28	2 20.66	+17 49.7	1.218	2.209	2.4	16.2
11 7	2 10.57	+17 22.8	1.243	2.226	4.1	16.4
11 17	2 1.91	+16 54.7	1.293	2.244	9.1	16.7
11 27	1 55.79	+16 32.2	1.368	2.263	13.5	17.0
12 7	1 52.78	+16 20.0	1.462	2.282	17.2	17.3

23772 Masateru 10 30.2 111°.62 3°.3/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.60	+ 7 29.5	1.511	2.389	14.6	18.5
10 8	2 39.24	+ 6 48.9	1.458	2.397	10.5	18.3
10 18	2 30.58	+ 6 5.1	1.429	2.405	6.1	18.1
10 28	2 20.63	+ 5 24.1	1.425	2.413	3.3	17.9
11 7	2 10.65	+ 4 51.9	1.449	2.421	6.0	18.1
11 17	2 1.86	+ 4 33.5	1.500	2.428	10.2	18.4
11 27	1 55.23	+ 4 32.0	1.574	2.435	14.1	18.6
12 7	1 51.32	+ 4 47.9	1.669	2.442	17.4	18.9

450594 2006 RG_{74} 10 30.2 333°.12 5°.9/ 2.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.76	+25 21.2	1.499	2.339	16.8	20.4
10 8	2 40.17	+26 28.7	1.417	2.323	13.4	20.2
10 18	2 31.59	+27 20.9	1.356	2.308	9.6	19.9
10 28	2 20.89	+27 53.6	1.320	2.294	6.4	19.7
11 7	2 9.49	+28 5.8	1.309	2.280	6.4	19.7
11 17	1 58.98	+28 0.5	1.323	2.268	9.7	19.8
11 27	1 50.85	+27 44.4	1.362	2.256	13.6	20.0
12 7	1 46.05	+27 26.1	1.422	2.246	17.4	20.2

395067 2009 FG_{53} 10 30.2 57°.47 4°.1/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.77	+ 5 3.6	1.783	2.662	12.7	20.7
10 8	2 35.51	+ 4 3.3	1.728	2.667	9.2	20.5
10 18	2 28.39	+ 3 1.9	1.698	2.672	5.7	20.3
10 28	2 20.23	+ 2 5.8	1.695	2.676	4.2	20.3
11 7	2 12.02	+ 1 21.1	1.719	2.681	6.4	20.4
11 17	2 4.73	+ 0 52.4	1.771	2.686	9.8	20.6
11 27	1 59.17	+ 0 42.3	1.846	2.691	13.1	20.8
12 7	1 55.84	+ 0 51.0	1.942	2.696	15.9	21.1

335720 2007 CU_{38} 10 30.2 178°.04 1°.0/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.95	+18 40.7	1.912	2.760	13.4	22.3
10 8	2 38.58	+18 17.0	1.840	2.762	9.8	22.1
10 18	2 30.18	+17 40.6	1.792	2.763	5.8	21.8
10 28	2 20.57	+16 54.1	1.772	2.764	1.7	21.6
11 7	2 10.82	+16 2.0	1.781	2.764	3.3	21.7
11 17	2 1.99	+15 10.0	1.819	2.763	7.5	21.9
11 27	1 54.99	+14 24.4	1.883	2.762	11.3	22.2
12 7	1 50.39	+13 49.7	1.971	2.761	14.5	22.4

394944 2008 YR_8 10 30.2 306°.69 0°.4/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 41.38	+17 6.0	1.536	2.404	14.9	21.3
10 8	2 36.59	+16 39.9	1.454	2.387	11.0	21.0
10 18	2 29.33	+15 59.6	1.394	2.370	6.4	20.7
10 28	2 20.45	+15 8.2	1.360	2.353	1.4	20.3
11 7	2 11.18	+14 11.4	1.353	2.336	4.0	20.5
11 17	2 2.80	+13 16.6	1.372	2.320	9.0	20.7
11 27	1 56.47	+12 31.2	1.416	2.304	13.7	21.0
12 7	1 52.94	+12 0.7	1.480	2.289	17.6	21.2

141703 2002 LJ_4 10 30.2 82°.20 3°.9/28.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.24	+ 6 17.6	1.370	2.249	15.8	19.6
10 8	2 41.08	+ 5 39.9	1.332	2.271	11.3	19.4
10 18	2 31.54	+ 5 1.2	1.318	2.293	6.7	19.2
10 28	2 20.79	+ 4 27.7	1.329	2.315	3.9	19.1
11 7	2 10.24	+ 4 5.2	1.367	2.337	6.5	19.3
11 17	2 1.17	+ 3 58.0	1.431	2.359	10.7	19.6
11 27	1 54.52	+ 4 8.0	1.519	2.380	14.6	19.9
12 7	1 50.76	+ 4 34.7	1.627	2.400	17.8	20.2

517104 2013 EO_{53} 10 30.2 316°.33 1°.6/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.49	+19 30.3	1.860	2.711	13.5	21.7
10 8	2 36.94	+19 24.8	1.786	2.707	10.1	21.5
10 18	2 29.32	+19 6.8	1.735	2.704	6.1	21.2
10 28	2 20.43	+18 37.7	1.711	2.701	2.2	21.0
11 7	2 11.32	+18 1.4	1.716	2.699	3.4	21.1
11 17	2 3.08	+17 22.7	1.748	2.696	7.4	21.3
11 27	1 56.64	+16 47.7	1.807	2.693	11.3	21.5
12 7	1 52.61	+16 21.1	1.888	2.691	14.5	21.7

239821 1998 RD_{11} 10 30.2 128°.34 3°.2/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.05	+ 7 54.9	2.009	2.881	11.8	20.6
10 8	2 35.51	+ 6 36.4	1.955	2.891	8.4	20.4
10 18	2 28.31	+ 5 14.1	1.926	2.901	5.0	20.3
10 28	2 20.22	+ 3 54.2	1.926	2.911	3.2	20.2
11 7	2 12.14	+ 2 43.3	1.955	2.920	5.5	20.3
11 17	2 4.91	+ 1 46.8	2.013	2.929	8.8	20.6
11 27	1 59.27	+ 1 8.3	2.096	2.937	11.9	20.8
12 7	1 55.67	+ 0 48.6	2.200	2.945	14.6	21.0

189268 2005 QS_{142} 10 30.2 344°.40 5°.5/26.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.59	+ 5 11.1	1.224	2.121	16.0	19.6
10 8	2 36.14	+ 3 58.2	1.168	2.115	11.7	19.4
10 18	2 29.06	+ 2 42.3	1.133	2.110	7.4	19.1
10 28	2 20.39	+ 1 33.2	1.123	2.105	5.6	19.0
11 7	2 11.52	+ 0 40.4	1.137	2.101	8.4	19.2
11 17	2 3.85	+ 0 10.9	1.174	2.098	12.9	19.4
11 27	1 58.54	+ 0 8.1	1.233	2.095	17.1	19.7
12 7	1 56.21	+ 0 31.0	1.309	2.094	20.7	19.9

366160 2012 FG_{11} 10 30.2 153°.37 7°.0/21.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.21	−10 53.6	2.828	3.677	9.5	21.2
10 8	2 33.12	−12 20.3	2.788	3.684	7.9	21.1
10 18	2 26.86	−13 37.7	2.774	3.690	7.0	21.1
10 28	2 19.96	−14 40.5	2.789	3.696	7.2	21.1
11 7	2 13.04	−15 24.7	2.830	3.702	8.4	21.2
11 17	2 6.70	−15 48.3	2.898	3.707	9.9	21.3
11 27	2 1.49	−15 51.1	2.988	3.712	11.6	21.4
12 7	1 57.76	−15 35.0	3.097	3.716	13.0	21.6

218409 2004 RS_{59} 10 30.2 354°.49 4°.0/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.35	+25 38.2	1.906	2.735	14.2	19.6
10 8	2 36.92	+25 54.9	1.831	2.733	11.0	19.4
10 18	2 29.34	+25 55.4	1.779	2.732	7.6	19.2
10 28	2 20.44	+25 39.2	1.753	2.730	4.6	19.0
11 7	2 11.30	+25 8.7	1.754	2.730	4.5	19.0
11 17	2 3.02	+24 28.5	1.782	2.729	7.4	19.2
11 27	1 56.58	+23 45.2	1.837	2.729	10.8	19.4
12 7	1 52.61	+23 5.2	1.915	2.729	13.9	19.6

106104 2000 TZ_{15} 10 30.2 89°.54 0°.1/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.51	+15 6.0	1.342	2.214	16.5	19.9
10 8	2 40.27	+14 49.0	1.285	2.220	12.0	19.7
10 18	2 31.33	+14 20.1	1.250	2.226	6.8	19.4
10 28	2 20.80	+13 43.0	1.239	2.232	1.2	19.1
11 7	2 10.16	+13 3.8	1.256	2.238	4.4	19.3
11 17	2 0.85	+12 29.1	1.298	2.244	9.6	19.7
11 27	1 54.02	+12 5.3	1.364	2.250	14.3	19.9
12 7	1 50.29	+11 56.2	1.451	2.256	18.0	20.2

200537 2001 DA_{98} 10 30.2 337°.39 4°.6/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.33	+26 59.8	1.423	2.268	17.3	19.2
10 8	2 36.06	+26 51.9	1.348	2.258	13.5	18.9
10 18	2 29.10	+26 19.6	1.293	2.250	9.4	18.6
10 28	2 20.43	+25 23.0	1.261	2.241	5.5	18.4
11 7	2 11.42	+24 7.0	1.255	2.234	5.2	18.4
11 17	2 3.52	+22 40.2	1.274	2.227	8.9	18.6
11 27	1 57.95	+21 13.7	1.318	2.222	13.3	18.8
12 7	1 55.42	+19 57.4	1.382	2.216	17.2	19.0

314632 2006 HU_{39} 10 30.2 94°.91 6°.2/26.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.61	+ 1 32.8	1.403	2.282	15.4	20.5
10 8	2 40.55	+ 0 25.5	1.368	2.304	11.3	20.3
10 18	2 31.22	− 0 37.5	1.357	2.326	7.6	20.1
10 28	2 20.75	− 1 28.1	1.372	2.347	6.2	20.1
11 7	2 10.51	− 1 59.5	1.414	2.367	8.5	20.3
11 17	2 1.69	− 2 8.3	1.481	2.387	12.0	20.6
11 27	1 55.21	− 1 54.1	1.570	2.407	15.5	20.8
12 7	1 51.52	− 1 19.2	1.679	2.426	18.3	21.1

97263 1999 XC_{122} 10 30.2 350°.38 6°.1/ 3.4 18

9 28	2 44.32	+29 23.1	1.585	2.408	16.8	18.9
10 8	2 38.82	+29 53.3	1.513	2.405	13.5	18.7
10 18	2 30.63	+30 1.6	1.461	2.403	9.9	18.5
10 28	2 20.72	+29 45.8	1.433	2.401	6.9	18.3
11 7	2 10.47	+29 7.8	1.430	2.400	6.4	18.3
11 17	2 1.30	+28 13.4	1.454	2.399	9.0	18.4
11 27	1 54.46	+27 11.7	1.502	2.398	12.5	18.6
12 7	1 50.67	+26 12.0	1.573	2.398	15.9	18.8

207766 2007 TJ_{33} 10 30.2 340°.53 0°.0/30.1 18

9 28	2 41.13	+15 51.3	1.594	2.464	14.4	20.5
10 8	2 36.17	+15 22.0	1.525	2.459	10.5	20.2
10 18	2 28.97	+14 40.7	1.479	2.455	6.0	20.0
10 28	2 20.40	+13 51.2	1.459	2.452	1.1	19.6
11 7	2 11.63	+12 59.4	1.466	2.448	3.9	19.8
11 17	2 3.83	+12 11.8	1.500	2.445	8.6	20.1
11 27	1 58.01	+11 34.6	1.558	2.443	12.9	20.4
12 7	1 54.77	+11 12.0	1.638	2.441	16.4	20.6

129305 2005 SK_{167} 10 30.2 326°.37 4°.8/27.5 18

9 28	2 44.20	+ 4 6.1	1.378	2.264	15.2	19.5
10 8	2 38.60	+ 3 30.7	1.316	2.257	11.2	19.3
10 18	2 30.43	+ 2 55.6	1.276	2.251	7.0	19.0
10 28	2 20.70	+ 2 27.5	1.261	2.245	4.8	18.9
11 7	2 10.72	+ 2 12.7	1.272	2.239	7.4	19.0
11 17	2 1.86	+ 2 15.6	1.308	2.234	11.7	19.2
11 27	1 55.27	+ 2 38.4	1.367	2.229	15.8	19.5
12 7	1 51.60	+ 3 20.3	1.445	2.225	19.3	19.7

267007 1993 FD_{14} 10 30.2 300°.15 5°.6/25.6 18

9 28	2 39.62	+ 3 50.2	1.592	2.479	13.5	20.3
10 8	2 35.09	+ 2 18.1	1.521	2.462	10.0	20.0
10 18	2 28.39	+ 0 42.8	1.475	2.446	6.7	19.8
10 28	2 20.33	− 0 46.7	1.454	2.430	5.7	19.7
11 7	2 12.01	− 2 1.3	1.461	2.414	8.2	19.8
11 17	2 4.55	− 2 53.8	1.492	2.398	12.0	20.0
11 27	1 58.93	− 3 20.1	1.546	2.383	15.7	20.2
12 7	1 55.80	− 3 20.0	1.619	2.368	18.8	20.4

481927 2009 BG_{89} 10 30.2 13°.65 7°.1/25.2 18

9 28	2 40.07	− 0 12.3	1.417	2.307	14.6	20.5
10 8	2 35.39	− 1 32.3	1.371	2.310	11.0	20.3
10 18	2 28.48	− 2 47.7	1.347	2.313	8.0	20.1
10 28	2 20.33	− 3 49.3	1.348	2.316	7.3	20.1
11 7	2 12.13	− 4 29.2	1.375	2.321	9.5	20.2
11 17	2 5.05	− 4 43.2	1.425	2.326	12.9	20.5
11 27	2 0.01	− 4 30.4	1.497	2.331	16.2	20.7
12 7	1 57.56	− 3 53.3	1.587	2.338	19.1	20.9

35884 1999 JW_{78} 10 30.2 100°.71 0°.3/30.5 18

9 28	2 46.41	+17 53.8	1.453	2.315	16.0	18.7
10 8	2 39.89	+17 9.4	1.403	2.333	11.6	18.5
10 18	2 30.97	+16 10.0	1.376	2.350	6.6	18.2
10 28	2 20.78	+15 0.5	1.374	2.367	1.4	17.9
11 7	2 10.67	+13 48.4	1.401	2.384	4.0	18.2
11 17	2 1.92	+12 42.0	1.454	2.400	8.9	18.5
11 27	1 55.52	+11 48.3	1.533	2.415	13.2	18.8
12 7	1 51.96	+11 11.8	1.633	2.431	16.7	19.1

84816 2002 YS_{18} 10 30.2 257°.33 6°.0/25.7 18

9 28	2 42.68	− 2 10.6	1.968	2.839	12.1	19.3
10 8	2 36.84	− 2 55.9	1.906	2.833	9.2	19.1
10 18	2 29.19	− 3 35.7	1.869	2.828	6.7	18.9
10 28	2 20.47	− 4 4.4	1.858	2.822	6.0	18.9
11 7	2 11.63	− 4 17.1	1.875	2.816	7.8	19.0
11 17	2 3.59	− 4 11.1	1.919	2.811	10.6	19.1
11 27	1 57.18	− 3 45.7	1.987	2.805	13.4	19.3
12 7	1 52.91	− 3 2.4	2.075	2.799	15.9	19.5

230772 2003 YU_{25} 10 30.2 359°.58 11°.0/10.0 16

9 28	2 39.08	+43 55.4	1.640	2.389	19.4	19.6
10 8	2 35.34	+44 27.5	1.567	2.385	17.0	19.5
10 18	2 28.78	+44 26.6	1.510	2.383	14.6	19.3
10 28	2 20.44	+43 48.2	1.473	2.382	12.3	19.2
11 7	2 11.82	+42 32.9	1.459	2.382	11.1	19.1
11 17	2 4.45	+40 46.8	1.468	2.384	11.4	19.1
11 27	1 59.59	+38 41.2	1.500	2.387	13.1	19.2
12 7	1 57.90	+36 29.5	1.556	2.391	15.5	19.4

380535 2004 HL_{44} 10 30.2 152°.26 3°.0/27.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 44.57	+ 8 7.2	1.840	2.709	12.8	21.5
10 8	2 38.23	+ 7 14.3	1.782	2.717	9.2	21.3
10 18	2 29.97	+ 6 17.5	1.748	2.724	5.3	21.1
10 28	2 20.63	+ 5 22.2	1.743	2.730	3.0	21.0
11 7	2 11.25	+ 4 34.5	1.767	2.736	5.4	21.2
11 17	2 2.84	+ 3 59.4	1.818	2.742	9.1	21.4
11 27	1 56.25	+ 3 40.1	1.895	2.746	12.6	21.6
12 7	1 51.96	+ 3 37.9	1.994	2.750	15.5	21.8

313372 2002 JJ_{100} 10 30.2 175°.00 5°.9/23.0 18

9 28	2 39.11	− 7 52.6	2.973	3.826	8.9	21.6
10 8	2 33.76	− 8 58.5	2.923	3.829	7.2	21.5
10 18	2 27.26	− 9 57.5	2.899	3.831	6.1	21.4
10 28	2 20.13	−10 44.9	2.904	3.833	6.0	21.4
11 7	2 12.96	−11 17.2	2.937	3.834	7.2	21.5
11 17	2 6.34	−11 32.4	2.997	3.834	8.9	21.6
11 27	2 0.79	−11 29.9	3.081	3.835	10.6	21.7
12 7	1 56.68	−11 10.9	3.186	3.834	12.2	21.9

242243 2003 SB_{207} 10 30.2 355°.69 6°.3/23.4 18

9 28	2 37.07	− 0 45.0	1.997	2.878	11.4	20.0
10 8	2 32.77	− 2 38.5	1.944	2.876	8.7	19.8
10 18	2 26.88	− 4 29.4	1.917	2.875	6.7	19.7
10 28	2 20.07	− 6 9.2	1.918	2.874	6.6	19.7
11 7	2 13.18	− 7 30.5	1.947	2.874	8.5	19.8
11 17	2 7.04	− 8 28.2	2.001	2.873	11.2	20.0
11 27	2 2.36	− 9 0.3	2.079	2.873	13.7	20.2
12 7	1 59.60	− 9 7.7	2.175	2.874	16.0	20.3

380116 1995 OH_5 10 30.2 358°.70 3°.8/28.2 18

9 28	2 37.57	+ 9 21.1	0.933	1.844	18.3	20.1
10 8	2 34.55	+ 8 32.6	0.883	1.839	13.2	19.8
10 18	2 28.42	+ 7 35.8	0.853	1.835	7.6	19.5
10 28	2 20.38	+ 6 39.8	0.843	1.833	3.8	19.3
11 7	2 12.12	+ 5 55.0	0.855	1.833	7.4	19.5
11 17	2 5.29	+ 5 29.6	0.889	1.835	13.0	19.8
11 27	2 1.23	+ 5 28.8	0.943	1.839	18.1	20.1
12 7	2 0.60	+ 5 52.6	1.013	1.844	22.3	20.4

457838 2009 SW_{97} 10 30.2 65°.65 2°.0/31.7 18

9 28	2 46.16	+19 27.8	2.070	2.909	12.8	20.6
10 8	2 39.29	+19 53.5	2.014	2.928	9.5	20.4
10 18	2 30.55	+20 8.7	1.982	2.947	5.9	20.2
10 28	2 20.74	+20 13.8	1.978	2.966	2.5	20.0
11 7	2 10.89	+20 10.8	2.004	2.985	3.3	20.1
11 17	2 1.97	+20 2.9	2.059	3.004	6.7	20.4
11 27	1 54.82	+19 54.5	2.141	3.023	10.0	20.6
12 7	1 49.94	+19 49.4	2.247	3.042	12.8	20.8

384312 2009 SS_{130} 10 30.2 345°.13 1°.7/29.3 18

9 28	2 40.59	+11 48.5	1.093	1.989	17.5	20.3
10 8	2 36.60	+11 28.2	1.030	1.979	12.7	20.0
10 18	2 29.58	+10 58.1	0.988	1.969	7.2	19.7
10 28	2 20.61	+10 23.6	0.968	1.961	1.9	19.3
11 7	2 11.27	+ 9 52.0	0.972	1.954	5.7	19.5
11 17	2 3.17	+ 9 30.7	0.999	1.948	11.4	19.9
11 27	1 57.72	+ 9 25.6	1.048	1.944	16.6	20.1
12 7	1 55.65	+ 9 39.4	1.114	1.941	21.0	20.4

283650 2002 JJ_{150} 10 30.2 59°.22 2°.0/28.9 18

9 28	2 43.78	+10 52.7	1.515	2.392	14.6	20.8
10 8	2 37.84	+10 13.4	1.473	2.412	10.4	20.6
10 18	2 29.77	+ 9 28.1	1.455	2.433	5.8	20.4
10 28	2 20.59	+ 8 42.2	1.462	2.454	2.1	20.2
11 7	2 11.53	+ 8 1.7	1.497	2.475	4.9	20.5
11 17	2 3.69	+ 7 32.1	1.559	2.496	9.2	20.8
11 27	1 57.96	+ 7 17.0	1.645	2.517	13.0	21.0
12 7	1 54.80	+ 7 17.9	1.752	2.538	16.2	21.3

86464 2000 CU_{62} 10 30.2 294°.80 0°.2/30.1 18

9 28	2 42.16	+16 24.0	1.431	2.303	15.6	19.6
10 8	2 37.39	+15 41.6	1.345	2.281	11.5	19.3
10 18	2 29.94	+14 43.1	1.282	2.259	6.6	19.0
10 28	2 20.70	+13 32.6	1.244	2.237	1.2	18.6
11 7	2 10.94	+12 17.3	1.232	2.215	4.5	18.8
11 17	2 2.11	+11 6.4	1.247	2.193	10.0	19.0
11 27	1 55.46	+10 8.7	1.285	2.171	14.9	19.3
12 7	1 51.81	+ 9 30.2	1.343	2.149	19.2	19.5

298142 2002 SX_{20} 10 30.2 62°.44 4°.1/ 1.7 18

9 28	2 48.56	+23 37.2	1.716	2.549	15.3	19.8
10 8	2 41.53	+24 22.0	1.655	2.560	11.8	19.7
10 18	2 32.03	+24 51.6	1.616	2.572	8.0	19.5
10 28	2 21.05	+25 4.5	1.604	2.583	4.7	19.3
11 7	2 9.87	+25 1.9	1.619	2.595	4.8	19.3
11 17	1 59.81	+24 48.0	1.663	2.607	8.0	19.5
11 27	1 51.95	+24 29.1	1.732	2.619	11.6	19.8
12 7	1 46.94	+24 11.4	1.824	2.632	14.8	20.0

86714 2000 GN_9 10 30.2 188°.64 0°.4/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 44.56	+17 11.6	1.709	2.567	14.2	20.5
10 8	2 38.54	+16 43.0	1.639	2.567	10.4	20.3
10 18	2 30.30	+16 1.8	1.593	2.566	6.0	20.0
10 28	2 20.73	+15 11.0	1.573	2.565	1.3	19.7
11 7	2 10.98	+14 16.2	1.581	2.564	3.6	19.9
11 17	2 2.22	+13 23.8	1.618	2.562	8.2	20.2
11 27	1 55.45	+12 40.2	1.680	2.560	12.3	20.4
12 7	1 51.25	+12 10.0	1.764	2.558	15.8	20.6

484640 2008 SW_{290} 10 30.2 309°.60 3°.1/ 1.8 17

9 28	2 41.73	+24 7.1	2.319	3.144	12.1	21.3
10 8	2 36.20	+24 19.8	2.237	3.139	9.3	21.2
10 18	2 28.89	+24 19.8	2.179	3.134	6.3	21.0
10 28	2 20.47	+24 6.9	2.148	3.129	3.6	20.8
11 7	2 11.83	+23 43.4	2.147	3.124	3.6	20.8
11 17	2 3.85	+23 12.7	2.174	3.119	6.4	20.9
11 27	1 57.36	+22 39.7	2.228	3.115	9.4	21.1
12 7	1 52.93	+22 9.4	2.307	3.110	12.2	21.3

482619 2013 AE_{36} 10 30.2 255°.89 3°.2/ 1.8 18

9 28	2 44.34	+24 41.5	2.162	2.984	12.9	21.4
10 8	2 38.31	+24 43.4	2.065	2.965	10.0	21.2
10 18	2 30.21	+24 30.3	1.992	2.946	6.8	20.9
10 28	2 20.74	+24 2.0	1.945	2.926	3.8	20.7
11 7	2 10.88	+23 20.9	1.928	2.906	3.9	20.7
11 17	2 1.69	+22 31.4	1.940	2.885	7.0	20.9
11 27	1 54.13	+21 39.8	1.979	2.864	10.5	21.0
12 7	1 48.88	+20 52.4	2.043	2.843	13.7	21.2

284062 2005 ER 10 30.2 275°.72 10°.8/ 6.5 18

9 28	2 52.68	+41 11.2	1.899	2.634	17.5	19.9
10 8	2 45.30	+42 44.5	1.819	2.630	15.4	19.7
10 18	2 34.63	+43 53.9	1.759	2.625	13.2	19.6
10 28	2 21.61	+44 32.3	1.722	2.621	11.4	19.5
11 7	2 7.79	+44 36.2	1.709	2.616	10.8	19.4
11 17	1 54.95	+44 8.0	1.720	2.612	11.6	19.5
11 27	1 44.70	+43 15.4	1.756	2.607	13.4	19.6
12 7	1 38.02	+42 9.8	1.813	2.603	15.6	19.7

204733 2006 HP_{63} 10 30.2 167°.20 1°.6/29.1 18

9 28	2 43.78	+10 56.3	1.880	2.747	12.7	20.5
10 8	2 37.74	+10 28.4	1.815	2.749	9.1	20.3
10 18	2 29.76	+ 9 54.8	1.774	2.750	5.1	20.1
10 28	2 20.63	+ 9 19.3	1.760	2.752	1.7	19.8
11 7	2 11.39	+ 8 46.6	1.776	2.753	4.2	20.0
11 17	2 3.03	+ 8 21.3	1.819	2.754	8.3	20.3
11 27	1 56.43	+ 8 7.3	1.889	2.755	11.9	20.5
12 7	1 52.12	+ 8 6.5	1.980	2.755	15.0	20.7

47769 2000 DK_{104} 10 30.2 99°.80 2°.6/ 1.5 18

9 28	2 43.43	+22 41.0	2.431	3.256	11.6	18.5
10 8	2 37.24	+22 57.2	2.361	3.265	8.8	18.3
10 18	2 29.39	+23 2.0	2.316	3.273	5.8	18.2
10 28	2 20.57	+22 55.8	2.299	3.282	3.1	18.0
11 7	2 11.63	+22 40.4	2.312	3.290	3.3	18.0
11 17	2 3.40	+22 19.1	2.354	3.299	6.0	18.2
11 27	1 56.65	+21 56.2	2.424	3.307	8.9	18.4
12 7	1 51.87	+21 35.8	2.519	3.315	11.5	18.6

324279 2006 CE_{39} 10 30.2 329°.20 3°.0/27.6 18

9 28	2 38.17	+ 8 17.5	1.972	2.849	11.7	19.9
10 8	2 33.67	+ 7 14.8	1.903	2.842	8.4	19.6
10 18	2 27.45	+ 6 7.5	1.859	2.836	4.9	19.4
10 28	2 20.22	+ 5 1.0	1.843	2.830	3.0	19.3
11 7	2 12.85	+ 4 1.6	1.855	2.824	5.3	19.4
11 17	2 6.22	+ 3 14.6	1.895	2.818	8.8	19.6
11 27	2 1.10	+ 2 44.0	1.960	2.813	12.1	19.8
12 7	1 58.00	+ 2 31.3	2.046	2.808	15.0	20.0

449356 2013 GL_{52} 10 30.2 120°.45 5°.0/26.1 18

9 28	2 41.44	− 0 38.4	2.222	3.090	10.9	21.4
10 8	2 35.73	− 1 22.1	2.168	3.096	8.2	21.2
10 18	2 28.49	− 2 1.9	2.140	3.102	5.8	21.1
10 28	2 20.40	− 2 32.7	2.140	3.108	5.0	21.0
11 7	2 12.29	− 2 50.5	2.169	3.113	6.6	21.1
11 17	2 4.94	− 2 52.9	2.225	3.119	9.2	21.3
11 27	1 59.03	− 2 38.8	2.306	3.124	11.8	21.5
12 7	1 54.99	− 2 9.1	2.408	3.129	14.0	21.7

488200 2015 XY_{226} 10 30.2 306°.61 5°.4/26.2 18

9 28	2 41.70	− 0 57.7	2.018	2.890	11.7	21.0
10 8	2 36.21	− 1 32.2	1.947	2.876	8.9	20.8
10 18	2 28.91	− 2 2.4	1.900	2.863	6.3	20.7
10 28	2 20.51	− 2 22.9	1.880	2.849	5.4	20.6
11 7	2 11.90	− 2 29.5	1.888	2.836	7.2	20.7
11 17	2 4.00	− 2 19.3	1.923	2.823	10.1	20.8
11 27	1 57.65	− 1 51.4	1.982	2.810	13.1	21.0
12 7	1 53.39	− 1 6.6	2.062	2.797	15.7	21.2

167524 2003 YZ_{147} 10 30.2 254°.83 1°.0/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.08	+10 50.7	1.925	2.786	12.7	20.1
10 8	2 39.52	+10 53.9	1.847	2.778	9.2	19.9
10 18	2 30.86	+10 52.8	1.794	2.769	5.2	19.6
10 28	2 20.88	+10 49.7	1.768	2.761	1.3	19.3
11 7	2 10.61	+10 47.5	1.772	2.752	3.9	19.5
11 17	2 1.14	+10 49.6	1.805	2.743	8.1	19.7
11 27	1 53.43	+10 58.8	1.864	2.734	11.8	20.0
12 7	1 48.10	+11 17.6	1.946	2.725	15.1	20.2

262170 2006 SK_{112} 10 30.2 107°.28 0°.6/30.7 18

9 28	2 42.63	+17 18.2	1.922	2.776	13.0	20.9
10 8	2 36.91	+16 56.6	1.856	2.782	9.5	20.7
10 18	2 29.29	+16 24.1	1.815	2.788	5.5	20.5
10 28	2 20.57	+15 43.5	1.801	2.793	1.3	20.2
11 7	2 11.75	+14 59.2	1.816	2.799	3.2	20.3
11 17	2 3.83	+14 16.4	1.859	2.804	7.3	20.6
11 27	1 57.64	+13 40.5	1.929	2.809	11.0	20.9
12 7	1 53.72	+13 15.3	2.021	2.815	14.1	21.1

280024 2001 XP_5 10 30.2 350°.03 13°.6/21.5 18

9 28	2 42.33	−18 1.5	1.433	2.288	16.6	19.2
10 8	2 37.14	−19 9.0	1.391	2.280	14.7	19.0
10 18	2 29.57	−19 52.4	1.369	2.272	13.7	19.0
10 28	2 20.63	−20 2.0	1.368	2.266	13.9	19.0
11 7	2 11.64	−19 32.7	1.389	2.261	15.3	19.0
11 17	2 3.82	−18 25.0	1.430	2.257	17.4	19.2
11 27	1 58.20	−16 43.4	1.489	2.254	19.6	19.3
12 7	1 55.33	−14 35.6	1.565	2.252	21.7	19.5

383541 2007 DR_{76} 10 30.2 182°.02 2°.7/27.9 17

9 28	2 44.77	+ 7 13.8	2.227	3.088	11.2	22.0
10 8	2 38.19	+ 6 32.0	2.159	3.090	8.1	21.8
10 18	2 29.93	+ 5 47.6	2.117	3.090	4.7	21.6
10 28	2 20.70	+ 5 4.7	2.104	3.090	2.7	21.5
11 7	2 11.37	+ 4 28.1	2.121	3.089	4.8	21.6
11 17	2 2.80	+ 4 1.5	2.168	3.087	8.1	21.8
11 27	1 55.76	+ 3 47.9	2.241	3.084	11.2	22.0
12 7	1 50.74	+ 3 48.4	2.337	3.081	13.8	22.2

437408 2013 WQ_{83} 10 30.2 320°.54 1°.5/31.3 18

9 28	2 41.36	+20 24.3	1.330	2.198	16.8	20.5
10 8	2 36.86	+19 47.4	1.258	2.189	12.6	20.2
10 18	2 29.64	+18 50.0	1.206	2.179	7.6	19.9
10 28	2 20.68	+17 35.6	1.179	2.170	2.4	19.6
11 7	2 11.40	+16 11.8	1.177	2.162	4.1	19.7
11 17	2 3.25	+14 48.5	1.202	2.154	9.5	20.0
11 27	1 57.47	+13 36.0	1.250	2.146	14.4	20.3
12 7	1 54.77	+12 41.6	1.317	2.139	18.6	20.5

127404 2002 LX_{30} 10 30.2 99°.97 1°.6/28.8 18

9 28	2 40.56	+10 26.3	2.359	3.222	10.6	20.3
10 8	2 35.03	+ 9 50.6	2.304	3.236	7.5	20.1
10 18	2 28.07	+ 9 10.7	2.274	3.250	4.2	19.9
10 28	2 20.35	+ 8 30.2	2.273	3.264	1.6	19.8
11 7	2 12.62	+ 7 53.2	2.303	3.278	3.7	19.9
11 17	2 5.62	+ 7 23.4	2.361	3.291	6.9	20.2
11 27	2 0.00	+ 7 3.6	2.446	3.304	9.8	20.4
12 7	1 56.16	+ 6 55.5	2.554	3.318	12.3	20.6

178375 1997 GY_{10} 10 30.2 90°.50 1°.3/31.1 18

9 28	2 48.35	+18 34.6	1.570	2.423	15.5	20.2
10 8	2 41.17	+18 23.3	1.523	2.447	11.3	20.0
10 18	2 31.70	+17 58.3	1.499	2.470	6.7	19.7
10 28	2 21.01	+17 22.5	1.502	2.493	2.0	19.5
11 7	2 10.44	+16 40.7	1.533	2.516	3.6	19.7
11 17	2 1.19	+15 59.3	1.591	2.538	8.1	20.0
11 27	1 54.24	+15 24.5	1.675	2.559	12.2	20.3
12 7	1 50.07	+15 0.8	1.781	2.580	15.5	20.6

154391 2003 AQ_{20} 10 30.2 346°.44 1°.9/29.1 18

9 28	2 40.01	+12 46.9	1.177	2.070	16.8	19.6
10 8	2 35.98	+12 1.0	1.116	2.062	12.1	19.3
10 18	2 29.16	+11 3.0	1.075	2.055	6.8	19.0
10 28	2 20.60	+ 9 59.4	1.057	2.050	2.0	18.7
11 7	2 11.77	+ 8 59.0	1.065	2.045	5.6	18.9
11 17	2 4.14	+ 8 10.8	1.096	2.041	11.1	19.2
11 27	1 58.97	+ 7 41.5	1.149	2.038	16.0	19.5
12 7	1 56.94	+ 7 34.2	1.220	2.037	20.1	19.8

167317 2003 UD_{250} 10 30.2 82°.23 3°.8/28.1 18

9 28	2 48.00	+ 3 43.5	1.735	2.603	13.5	19.4
10 8	2 40.66	+ 3 32.1	1.690	2.623	9.8	19.2
10 18	2 31.33	+ 3 22.6	1.670	2.642	6.0	19.0
10 28	2 20.95	+ 3 19.1	1.678	2.661	3.8	18.9
11 7	2 10.67	+ 3 25.0	1.714	2.680	5.8	19.1
11 17	2 1.54	+ 3 42.4	1.778	2.699	9.4	19.3
11 27	1 54.42	+ 4 12.3	1.867	2.718	12.7	19.6
12 7	1 49.78	+ 4 54.2	1.978	2.736	15.5	19.8

364087 2005 YU_{94} 10 30.2 197°.02 1°.3/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 41.10	+19 59.8	2.358	3.198	11.4	21.6
10 8	2 35.62	+19 41.3	2.281	3.197	8.5	21.4
10 18	2 28.52	+19 11.7	2.228	3.195	5.1	21.2
10 28	2 20.46	+18 32.8	2.204	3.193	1.9	21.0
11 7	2 12.26	+17 48.1	2.209	3.191	2.8	21.0
11 17	2 4.74	+17 1.9	2.243	3.189	6.2	21.3
11 27	1 58.65	+16 19.1	2.306	3.187	9.4	21.5
12 7	1 54.47	+15 43.9	2.392	3.184	12.2	21.6

345337 2005 YP_{126} 10 30.3 247°.96 1°.5/29.2 18

9 28	2 44.63	+11 14.1	1.875	2.739	12.8	21.4
10 8	2 38.56	+10 47.2	1.793	2.726	9.3	21.2
10 18	2 30.37	+10 13.7	1.735	2.711	5.3	20.9
10 28	2 20.83	+ 9 37.3	1.705	2.696	1.6	20.6
11 7	2 10.98	+ 9 2.7	1.703	2.681	4.3	20.8
11 17	2 1.89	+ 8 34.9	1.730	2.665	8.6	21.0
11 27	1 54.56	+ 8 18.2	1.783	2.649	12.5	21.2
12 7	1 49.62	+ 8 15.4	1.857	2.633	15.8	21.4

58119 1981 EJ_{9} 10 30.3 253°.02 2°.4/ 1.0 18

9 28	2 43.86	+21 50.5	1.859	2.700	13.9	20.0
10 8	2 38.11	+21 42.8	1.776	2.690	10.6	19.8
10 18	2 30.16	+21 20.0	1.716	2.680	6.7	19.5
10 28	2 20.80	+20 43.2	1.683	2.670	3.0	19.3
11 7	2 11.13	+19 55.9	1.678	2.660	3.6	19.3
11 17	2 2.30	+19 3.8	1.701	2.649	7.6	19.5
11 27	1 55.33	+18 13.9	1.750	2.638	11.5	19.7
12 7	1 50.86	+17 32.1	1.823	2.627	14.9	19.9

402370 2005 WH_{178} 10 30.3 279°.38 4°.6/26.5 18

9 28	2 41.46	+ 0 49.1	2.144	3.015	11.2	21.0
10 8	2 35.94	+ 0 11.7	2.075	3.006	8.3	20.9
10 18	2 28.73	− 0 23.1	2.030	2.996	5.7	20.7
10 28	2 20.52	− 0 50.5	2.014	2.987	4.7	20.6
11 7	2 12.14	− 1 6.0	2.025	2.977	6.4	20.7
11 17	2 4.46	− 1 6.8	2.064	2.968	9.3	20.9
11 27	1 58.23	− 0 51.4	2.129	2.959	12.2	21.0
12 7	1 53.98	− 0 20.1	2.214	2.949	14.7	21.2

173538 2000 WY_{116} 10 30.3 23°.61 0°.5/30.1 18

9 28	2 46.48	+11 53.3	0.918	1.816	19.8	18.4
10 8	2 40.99	+12 20.7	0.878	1.826	14.4	18.1
10 18	2 32.06	+12 40.2	0.857	1.838	8.1	17.9
10 28	2 21.14	+12 54.1	0.858	1.851	1.5	17.5
11 7	2 10.20	+13 6.5	0.881	1.865	5.3	17.8
11 17	2 1.10	+13 21.9	0.928	1.881	11.4	18.2
11 27	1 55.22	+13 45.0	0.995	1.898	16.6	18.6
12 7	1 53.13	+14 18.4	1.080	1.917	20.8	18.9

344865 2004 JK 10 30.3 213°.16 1°.2/31.2 18

9 28	2 43.82	+19 55.0	1.649	2.503	14.8	20.8
10 8	2 38.15	+19 18.3	1.576	2.500	11.0	20.6
10 18	2 30.17	+18 25.1	1.526	2.497	6.6	20.3
10 28	2 20.80	+17 18.7	1.502	2.493	2.0	20.0
11 7	2 11.22	+16 5.1	1.506	2.490	3.6	20.1
11 17	2 2.66	+14 52.2	1.538	2.486	8.3	20.4
11 27	1 56.15	+13 48.0	1.596	2.482	12.5	20.6
12 7	1 52.29	+12 58.2	1.676	2.477	16.2	20.9

345304 2005 WS_{197} 10 30.3 266°.65 0°.9/31.3 18

9 28	2 36.84	+18 50.6	3.239	4.077	8.7	21.6
10 8	2 32.25	+18 34.3	3.153	4.069	6.4	21.4
10 18	2 26.51	+18 10.4	3.093	4.061	3.8	21.3
10 28	2 20.11	+17 40.4	3.062	4.052	1.3	21.0
11 7	2 13.58	+17 6.8	3.061	4.044	2.1	21.1
11 17	2 7.48	+16 32.3	3.091	4.036	4.7	21.3
11 27	2 2.34	+16 0.2	3.150	4.027	7.3	21.4
12 7	1 58.56	+15 33.3	3.234	4.019	9.5	21.6

348327 2005 CC_{60} 10 30.3 205°.27 6°.0/24.6 18

9 28	2 41.99	− 3 10.3	2.258	3.123	10.9	21.1
10 8	2 36.21	− 4 20.1	2.196	3.118	8.4	21.0
10 18	2 28.83	− 5 25.2	2.161	3.113	6.5	20.8
10 28	2 20.54	− 6 19.5	2.153	3.107	6.2	20.8
11 7	2 12.14	− 6 57.6	2.173	3.100	7.8	20.9
11 17	2 4.45	− 7 16.5	2.221	3.093	10.2	21.0
11 27	1 58.16	− 7 15.0	2.293	3.086	12.7	21.2
12 7	1 53.78	− 6 54.1	2.385	3.077	14.9	21.4

472566 2015 DP_{74} 10 30.3 131°.44 0°.3/30.5 16

9 28	2 46.73	+16 41.1	1.714	2.569	14.3	22.4
10 8	2 40.00	+16 17.6	1.654	2.581	10.4	22.2
10 18	2 31.09	+15 42.6	1.619	2.592	6.0	22.0
10 28	2 20.96	+14 59.2	1.610	2.603	1.3	21.7
11 7	2 10.79	+14 12.6	1.631	2.613	3.6	21.9
11 17	2 1.73	+13 28.6	1.679	2.623	8.1	22.2
11 27	1 54.72	+12 53.2	1.754	2.632	12.0	22.4
12 7	1 50.30	+12 30.1	1.851	2.641	15.3	22.7

355069 2006 SA_{221} 10 30.3 258°.67 4°.0/26.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 39.92	+ 5 44.5	1.967	2.843	11.8	21.1
10 8	2 34.96	+ 4 25.4	1.896	2.834	8.6	20.8
10 18	2 28.23	+ 3 2.8	1.852	2.824	5.4	20.6
10 28	2 20.44	+ 1 43.4	1.835	2.815	4.1	20.5
11 7	2 12.49	+ 0 34.2	1.846	2.805	6.3	20.7
11 17	2 5.27	− 0 19.0	1.885	2.795	9.7	20.8
11 27	1 59.61	− 0 52.6	1.949	2.785	12.9	21.0
12 7	1 56.01	− 1 5.5	2.034	2.775	15.7	21.2

226278 2003 AY_{92} 10 30.3 207°.82 1°.3/29.3 18

9 28	2 44.74	+12 12.7	1.859	2.722	13.0	21.4
10 8	2 38.56	+11 38.1	1.785	2.717	9.4	21.2
10 18	2 30.32	+10 56.0	1.736	2.713	5.3	20.9
10 28	2 20.84	+10 10.1	1.715	2.707	1.5	20.6
11 7	2 11.16	+ 9 25.8	1.723	2.701	4.2	20.8
11 17	2 2.34	+ 8 48.4	1.759	2.695	8.4	21.1
11 27	1 55.31	+ 8 22.6	1.821	2.688	12.2	21.3
12 7	1 50.67	+ 8 11.2	1.905	2.680	15.5	21.5

444578 2006 TG_{93} 10 30.3 11°.36 2°.4/31.7 17

9 28	2 41.13	+20 1.7	1.343	2.212	16.6	20.6
10 8	2 36.56	+20 9.1	1.286	2.216	12.4	20.3
10 18	2 29.40	+20 0.4	1.250	2.221	7.7	20.1
10 28	2 20.68	+19 37.3	1.238	2.227	3.1	19.8
11 7	2 11.79	+19 4.2	1.251	2.234	4.1	19.9
11 17	2 4.09	+18 27.7	1.289	2.243	8.8	20.2
11 27	1 58.73	+17 55.2	1.351	2.252	13.2	20.5
12 7	1 56.32	+17 32.5	1.434	2.263	17.0	20.8

476683 2008 TR_{74} 10 30.3 355°.30 1°.1/30.9 16

9 28	2 42.26	+16 36.5	1.223	2.104	17.1	21.0
10 8	2 37.66	+16 44.9	1.161	2.099	12.7	20.7
10 18	2 30.17	+16 40.3	1.119	2.095	7.5	20.4
10 28	2 20.86	+16 24.7	1.100	2.092	2.0	20.0
11 7	2 11.22	+16 2.6	1.106	2.091	4.3	20.2
11 17	2 2.80	+15 40.3	1.137	2.090	9.8	20.5
11 27	1 56.90	+15 24.7	1.190	2.091	14.7	20.8
12 7	1 54.24	+15 20.8	1.263	2.093	18.8	21.1

98562 2000 WJ_{14} 10 30.3 202°.62 0°.5/29.9 18

9 28	2 45.01	+13 24.4	1.911	2.771	12.9	19.7
10 8	2 38.73	+13 10.0	1.839	2.768	9.3	19.5
10 18	2 30.43	+12 48.1	1.790	2.766	5.3	19.2
10 28	2 20.89	+12 21.6	1.770	2.763	1.0	18.9
11 7	2 11.16	+11 54.4	1.778	2.759	3.6	19.1
11 17	2 2.27	+11 30.9	1.815	2.756	7.8	19.4
11 27	1 55.15	+11 15.5	1.879	2.752	11.6	19.6
12 7	1 50.38	+11 11.1	1.965	2.747	14.8	19.8

92001 1999 VA_{145} 10 30.3 10°.68 1°.6/31.4 18

9 28	2 43.02	+18 33.7	1.943	2.793	13.1	19.0
10 8	2 37.32	+18 43.4	1.873	2.794	9.7	18.8
10 18	2 29.64	+18 42.7	1.826	2.796	5.9	18.6
10 28	2 20.75	+18 32.4	1.807	2.797	2.1	18.4
11 7	2 11.66	+18 15.5	1.816	2.799	3.2	18.5
11 17	2 3.41	+17 55.8	1.853	2.801	7.1	18.7
11 27	1 56.89	+17 38.2	1.917	2.803	10.7	18.9
12 7	1 52.68	+17 26.8	2.004	2.806	13.9	19.1

70689 1999 UU_{16} 10 30.3 304°.91 0°.6/30.6 18

9 28	2 44.22	+15 40.9	1.598	2.463	14.6	19.2
10 8	2 38.72	+15 44.5	1.515	2.446	10.8	18.9
10 18	2 30.69	+15 38.2	1.454	2.429	6.3	18.6
10 28	2 20.98	+15 23.6	1.420	2.412	1.5	18.3
11 7	2 10.80	+15 4.3	1.412	2.395	3.8	18.4
11 17	2 1.46	+14 45.1	1.431	2.379	8.8	18.7
11 27	1 54.16	+14 31.7	1.476	2.363	13.3	18.9
12 7	1 49.66	+14 28.4	1.541	2.347	17.1	19.1

242073 2002 TD_{164} 10 30.3 40°.46 9°.7/25.4 18

9 28	2 46.33	−10 3.1	1.488	2.355	15.4	19.5
10 8	2 39.68	−10 41.8	1.456	2.370	12.5	19.3
10 18	2 30.86	−11 3.8	1.446	2.385	10.3	19.2
10 28	2 20.95	−11 2.0	1.460	2.401	9.8	19.3
11 7	2 11.21	−10 33.1	1.499	2.417	11.2	19.4
11 17	2 2.80	− 9 37.6	1.562	2.434	13.7	19.6
11 27	1 56.59	− 8 18.9	1.647	2.451	16.4	19.8
12 7	1 53.02	− 6 42.4	1.750	2.469	18.7	20.0

504007 2005 EQ_{252} 10 30.3 124°.23 11°.6/ 3.4 17

9 28	3 2.14	+32 57.4	1.223	2.025	22.0	20.6
10 8	2 53.30	+35 18.6	1.160	2.029	18.5	20.4
10 18	2 39.78	+37 15.9	1.116	2.033	14.9	20.2
10 28	2 22.80	+38 36.2	1.096	2.037	12.2	20.1
11 7	2 4.71	+39 12.5	1.099	2.041	11.8	20.1
11 17	1 48.26	+39 7.5	1.127	2.045	13.9	20.2
11 27	1 35.76	+38 33.8	1.176	2.048	17.1	20.4
12 7	1 28.35	+37 47.7	1.245	2.051	20.4	20.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
112104 2002 JV_{37}			10 30.3 248°.68		1°.6/31.3 18	
	h m	° ′			°	m
9 28	2 46.53	+19 11.2	1.532	2.387	15.7	20.3
10 8	2 40.46	+19 2.2	1.452	2.377	11.7	20.0
10 18	2 31.70	+18 38.0	1.395	2.366	7.1	19.7
10 28	2 21.20	+18 0.1	1.363	2.354	2.4	19.4
11 7	2 10.27	+17 13.1	1.359	2.342	3.9	19.5
11 17	2 0.35	+16 23.8	1.382	2.330	8.9	19.7
11 27	1 52.68	+15 40.0	1.429	2.318	13.6	20.0
12 7	1 48.01	+15 8.0	1.498	2.305	17.5	20.2
456081 2006 BA_{68}			10 30.3 327°.70		0°.3/30.5 17	
9 28	2 40.34	+16 9.1	1.824	2.688	13.2	21.4
10 8	2 35.55	+15 53.2	1.745	2.676	9.6	21.2
10 18	2 28.73	+15 27.0	1.690	2.665	5.6	20.9
10 28	2 20.62	+14 52.9	1.662	2.654	1.2	20.6
11 7	2 12.24	+14 15.4	1.661	2.644	3.4	20.7
11 17	2 4.64	+13 39.7	1.688	2.634	7.8	21.0
11 27	1 58.75	+13 11.0	1.740	2.625	11.7	21.2
12 7	1 55.20	+12 53.4	1.815	2.617	15.1	21.4
13026 1989 CX			10 30.3 314°.35		20°.1/ 8.4 18	
9 28	2 55.50	+52 50.6	1.441	2.124	24.2	17.5
10 8	2 50.19	+55 37.2	1.357	2.098	22.9	17.3
10 18	2 39.17	+57 54.9	1.286	2.072	21.6	17.1
10 28	2 22.91	+59 28.1	1.232	2.047	20.6	16.9
11 7	2 3.70	+60 4.3	1.194	2.023	20.1	16.8
11 17	1 45.31	+59 39.2	1.172	1.999	20.4	16.8
11 27	1 31.60	+58 21.4	1.167	1.976	21.4	16.8
12 7	1 24.73	+56 28.3	1.177	1.954	23.0	16.8
360016 2013 AG_{8}			10 30.3 165°.03		3°.0/ 2.1 18	
9 28	2 43.61	+25 21.9	2.346	3.162	12.2	21.2
10 8	2 37.50	+25 15.2	2.270	3.166	9.4	21.0
10 18	2 29.65	+24 53.9	2.218	3.170	6.3	20.8
10 28	2 20.78	+24 18.8	2.194	3.173	3.6	20.7
11 7	2 11.78	+23 32.6	2.199	3.176	3.5	20.7
11 17	2 3.55	+22 40.1	2.234	3.179	6.2	20.8
11 27	1 56.87	+21 46.7	2.296	3.181	9.3	21.0
12 7	1 52.25	+20 58.1	2.384	3.182	12.0	21.2
229887 2009 UA_{85}			10 30.3 30°.42		1°.6/28.9 18	
9 28	2 39.84	+11 10.7	1.876	2.748	12.4	20.5
10 8	2 34.91	+10 35.5	1.820	2.757	8.9	20.3
10 18	2 28.20	+ 9 54.5	1.788	2.766	5.0	20.1
10 28	2 20.50	+ 9 12.1	1.783	2.775	1.7	19.9
11 7	2 12.75	+ 8 33.3	1.807	2.784	4.2	20.1
11 17	2 5.87	+ 8 2.7	1.858	2.794	8.0	20.3
11 27	2 0.64	+ 7 44.1	1.935	2.805	11.5	20.6
12 7	1 57.53	+ 7 39.2	2.033	2.816	14.4	20.8
335463 2005 VH_{89}			10 30.3 95°.35		3°.2/28.1 18	
9 28	2 44.38	+ 8 7.6	1.564	2.442	14.2	21.2
10 8	2 38.40	+ 7 19.5	1.512	2.451	10.2	21.0
10 18	2 30.25	+ 6 27.5	1.483	2.460	5.9	20.8
10 28	2 20.89	+ 5 37.6	1.481	2.469	3.2	20.6
11 7	2 11.50	+ 4 56.3	1.506	2.478	5.8	20.8
11 17	2 3.23	+ 4 28.7	1.558	2.486	9.9	21.1
11 27	1 57.02	+ 4 18.3	1.634	2.495	13.7	21.3
12 7	1 53.38	+ 4 25.9	1.730	2.504	16.9	21.6
27688 1981 EX_{23}			10 30.3 96°.52		0°.7/30.9 18	
9 28	2 42.44	+18 8.7	1.948	2.800	13.0	19.2
10 8	2 36.77	+17 42.2	1.886	2.810	9.5	19.0
10 18	2 29.26	+17 4.1	1.847	2.819	5.5	18.8
10 28	2 20.70	+16 17.4	1.836	2.828	1.4	18.6
11 7	2 12.09	+15 26.6	1.854	2.837	3.1	18.7
11 17	2 4.37	+14 37.3	1.901	2.846	7.1	19.0
11 27	1 58.38	+13 55.0	1.974	2.855	10.7	19.2
12 7	1 54.60	+13 23.6	2.070	2.864	13.8	19.5
486114 2012 VF_{76}			10 30.3 43°.47		0°.6/30.8 18	
9 28	2 41.82	+20 2.3	1.266	2.137	17.3	19.4
10 8	2 36.80	+18 54.1	1.227	2.161	12.6	19.2
10 18	2 29.36	+17 27.2	1.210	2.185	7.2	18.9
10 28	2 20.70	+15 48.7	1.218	2.210	1.7	18.7
11 7	2 12.24	+14 8.8	1.252	2.236	4.0	18.9
11 17	2 5.24	+12 37.9	1.312	2.262	9.1	19.3
11 27	2 0.62	+11 24.5	1.396	2.288	13.5	19.6
12 7	1 58.80	+10 32.9	1.501	2.315	17.1	19.9
225416 1999 YC			10 30.3 75°.49		22°.2/ 2.2 17 R	
9 28	4 6.63	−33 35.2	1.019	1.711	31.8	19.8
10 8	3 34.54	−35 47.7	1.044	1.804	27.3	19.8
10 18	2 59.38	−36 36.4	1.093	1.890	24.0	19.9
10 28	2 25.74	−35 53.7	1.170	1.969	22.4	20.1
11 7	1 57.50	−33 56.6	1.275	2.043	22.4	20.4
11 17	1 36.29	−31 13.0	1.404	2.111	23.2	20.7
11 27	1 21.99	−28 7.8	1.554	2.174	24.1	21.0
12 7	1 13.51	−24 58.0	1.718	2.232	24.8	21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
259888 2004 DG_{36}			10 30.3 239°.58		2°.0/31.9 18	
	h m	° ′			°	m
9 28	2 42.70	+21 36.6	2.066	2.904	12.9	20.7
10 8	2 37.09	+21 23.8	1.984	2.897	9.7	20.5
10 18	2 29.53	+20 57.4	1.926	2.890	6.1	20.3
10 28	2 20.78	+20 18.5	1.895	2.883	2.6	20.1
11 7	2 11.79	+19 30.9	1.893	2.875	3.2	20.1
11 17	2 3.57	+18 39.5	1.920	2.868	6.9	20.3
11 27	1 57.00	+17 50.6	1.974	2.860	10.5	20.5
12 7	1 52.66	+17 9.4	2.051	2.852	13.6	20.7
230257 2001 VA_{105}			10 30.3 292°.03		0°.0/30.2 18	
9 28	2 44.13	+15 20.1	1.545	2.413	14.9	20.5
10 8	2 38.73	+15 6.7	1.461	2.394	11.0	20.2
10 18	2 30.76	+14 41.9	1.399	2.375	6.3	19.9
10 28	2 21.05	+14 8.4	1.363	2.356	1.2	19.5
11 7	2 10.85	+13 31.0	1.354	2.337	4.1	19.7
11 17	2 1.51	+12 56.0	1.372	2.318	9.2	19.9
11 27	1 54.26	+12 29.7	1.414	2.299	13.9	20.2
12 7	1 49.89	+12 16.8	1.477	2.281	17.8	20.4
51996 2001 TH_{118}			10 30.3 215°.76		7°.5/ 6.3 18	
9 28	2 45.23	+37 56.5	2.150	2.905	15.1	18.2
10 8	2 39.17	+38 21.8	2.067	2.903	12.8	18.0
10 18	2 30.83	+38 24.2	2.006	2.901	10.4	17.9
10 28	2 21.04	+38 0.9	1.968	2.899	8.3	17.8
11 7	2 10.97	+37 12.7	1.956	2.896	7.6	17.7
11 17	2 1.83	+36 4.0	1.971	2.894	8.6	17.8
11 27	1 54.65	+34 42.7	2.013	2.891	10.7	17.9
12 7	1 50.09	+33 17.7	2.079	2.888	13.2	18.1
220130 2002 TB_{78}			10 30.3 357°.36		0°.0/30.4 18	
9 28	2 40.73	+17 2.0	1.162	2.047	17.6	20.1
10 8	2 36.58	+16 24.4	1.103	2.044	12.8	19.8
10 18	2 29.58	+15 29.5	1.063	2.041	7.4	19.5
10 28	2 20.81	+14 22.5	1.047	2.040	1.4	19.1
11 7	2 11.82	+13 11.9	1.056	2.040	4.6	19.4
11 17	2 4.12	+12 7.7	1.089	2.040	10.3	19.7
11 27	1 58.97	+11 18.6	1.144	2.042	15.4	20.0
12 7	1 57.01	+10 49.7	1.218	2.044	19.6	20.3
450754 2007 JV_{34}			10 30.3 184°.55		1°.9/28.4 18	
9 28	2 42.01	+ 7 11.1	2.875	3.732	9.1	21.8
10 8	2 35.99	+ 6 54.5	2.803	3.732	6.5	21.6
10 18	2 28.67	+ 6 36.5	2.758	3.731	3.8	21.4
10 28	2 20.61	+ 6 19.7	2.743	3.730	1.9	21.3
11 7	2 12.46	+ 6 6.7	2.758	3.729	3.6	21.4
11 17	2 4.85	+ 6 0.1	2.804	3.727	6.3	21.6
11 27	1 58.38	+ 6 1.5	2.879	3.725	8.9	21.8
12 7	1 53.47	+ 6 12.2	2.977	3.722	11.1	21.9
363442 2003 SD_{116}			10 30.3 58°.57		5°.7/24.4 18	
9 28	2 38.10	− 0 2.8	2.107	2.984	11.1	20.3
10 8	2 33.45	− 1 39.8	2.061	2.992	8.3	20.1
10 18	2 27.31	− 3 13.8	2.040	3.001	6.2	20.0
10 28	2 20.35	− 4 37.7	2.048	3.009	5.8	20.0
11 7	2 13.38	− 5 45.0	2.084	3.017	7.6	20.1
11 17	2 7.16	− 6 31.7	2.146	3.026	10.1	20.3
11 27	2 2.36	− 6 56.0	2.232	3.035	12.7	20.5
12 7	1 59.39	− 6 58.7	2.338	3.044	14.8	20.7
398494 2011 UQ_{176}			10 30.3 18°.72		1°.0/31.0 18	
9 28	2 42.67	+17 50.7	1.680	2.540	14.3	20.8
10 8	2 37.28	+17 40.9	1.614	2.542	10.5	20.5
10 18	2 29.71	+17 18.8	1.572	2.544	6.2	20.3
10 28	2 20.83	+16 47.0	1.556	2.547	1.8	20.0
11 7	2 11.79	+16 9.6	1.567	2.550	3.5	20.1
11 17	2 3.72	+15 32.5	1.605	2.554	7.9	20.4
11 27	1 57.60	+15 1.3	1.669	2.558	11.9	20.7
12 7	1 54.02	+14 40.7	1.755	2.562	15.3	20.9
51712 2001 KO_{29}			10 30.3 76°.97		1°.7/29.1 18	
9 28	2 43.32	+10 52.7	1.764	2.634	13.2	19.4
10 8	2 37.51	+10 23.4	1.707	2.642	9.5	19.2
10 18	2 29.72	+ 9 48.4	1.674	2.651	5.3	19.0
10 28	2 20.82	+ 9 11.9	1.668	2.659	1.8	18.8
11 7	2 11.86	+ 8 38.9	1.690	2.668	4.4	19.0
11 17	2 3.87	+ 8 14.1	1.740	2.676	8.5	19.2
11 27	1 57.73	+ 8 1.3	1.815	2.685	12.1	19.5
12 7	1 53.93	+ 8 2.2	1.912	2.693	15.2	19.7
277811 2006 FM_{36}			10 30.3 255°.05		1°.2/29.2 18	
9 28	2 39.99	+11 31.3	2.352	3.214	10.6	21.2
10 8	2 34.82	+11 2.1	2.278	3.210	7.6	21.0
10 18	2 28.13	+10 27.7	2.230	3.206	4.3	20.8
10 28	2 20.53	+ 9 51.2	2.211	3.202	1.3	20.5
11 7	2 12.79	+ 9 16.5	2.221	3.198	3.5	20.7
11 17	2 5.69	+ 8 47.4	2.260	3.194	6.9	20.9
11 27	1 59.93	+ 8 27.3	2.326	3.190	10.0	21.1
12 7	1 55.97	+ 8 18.4	2.415	3.186	12.7	21.3

43194 2000 AJ_6 10 30.3 90°.47 0°.3/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 40.83	+14 45.0	2.313	3.168	11.1	19.2
10 8	2 35.32	+14 14.5	2.256	3.184	7.9	19.0
10 18	2 28.34	+13 36.8	2.224	3.199	4.4	18.9
10 28	2 20.55	+12 54.7	2.221	3.214	0.8	18.6
11 7	2 12.76	+12 12.5	2.248	3.229	3.0	18.8
11 17	2 5.73	+11 34.2	2.303	3.243	6.4	19.1
11 27	2 0.11	+11 3.6	2.387	3.258	9.5	19.3
12 7	1 56.34	+10 43.4	2.494	3.272	12.1	19.5

80342 1999 XL_{110} 10 30.3 266°.93 1°.2/31.1 18

9 28	2 44.33	+18 59.3	1.522	2.382	15.5	19.9
10 8	2 38.84	+18 34.9	1.444	2.371	11.5	19.7
10 18	2 30.78	+17 54.3	1.388	2.360	6.9	19.4
10 28	2 21.06	+17 0.3	1.358	2.349	2.0	19.1
11 7	2 10.99	+15 58.4	1.355	2.338	3.9	19.2
11 17	2 1.91	+14 56.4	1.378	2.327	8.9	19.4
11 27	1 55.02	+14 2.4	1.427	2.316	13.5	19.7
12 7	1 51.02	+13 22.7	1.496	2.304	17.5	19.9

48919 1998 OU_8 10 30.3 53°.45 7°.3/25.8 18

9 28	2 43.65	+ 0 30.9	1.255	2.146	16.0	18.1
10 8	2 38.11	− 0 51.8	1.220	2.160	12.0	17.9
10 18	2 30.14	− 2 9.0	1.207	2.174	8.4	17.8
10 28	2 20.89	− 3 10.7	1.218	2.189	7.4	17.8
11 7	2 11.75	− 3 49.0	1.254	2.204	9.7	17.9
11 17	2 4.00	− 3 59.8	1.313	2.219	13.3	18.2
11 27	1 58.61	− 3 43.1	1.394	2.234	16.8	18.5
12 7	1 56.06	− 3 2.2	1.492	2.250	19.8	18.7

1676 Kariba 10 30.3 120°.22 1°.3/29.5 18 R

9 28	2 49.38	+11 57.3	1.585	2.449	14.8	16.4
10 8	2 41.97	+11 36.2	1.533	2.465	10.6	16.2
10 18	2 32.27	+11 8.0	1.505	2.481	5.9	15.9
10 28	2 21.30	+10 36.6	1.504	2.497	1.5	15.7
11 7	2 10.36	+10 7.2	1.532	2.511	4.4	15.9
11 17	2 0.68	+ 9 44.8	1.587	2.525	9.0	16.2
11 27	1 53.24	+ 9 33.5	1.668	2.539	13.0	16.5
12 7	1 48.56	+ 9 35.7	1.771	2.552	16.2	16.8

356101 2009 ER_{27} 10 30.3 300°.24 0°.6/30.9 18

9 28	2 41.37	+21 56.6	1.686	2.536	14.7	21.0
10 8	2 36.70	+20 27.0	1.577	2.500	11.1	20.7
10 18	2 29.61	+18 30.8	1.491	2.463	6.6	20.3
10 28	2 20.86	+16 12.1	1.433	2.425	1.7	19.9
11 7	2 11.59	+13 39.8	1.405	2.388	3.9	20.0
11 17	2 3.05	+11 6.4	1.405	2.350	9.2	20.2
11 27	1 56.41	+ 8 45.5	1.433	2.312	14.1	20.4
12 7	1 52.45	+ 6 47.0	1.482	2.274	18.4	20.6

376769 2000 AL_{253} 10 30.3 278°.83 1°.7/31.4 18

9 28	2 44.40	+19 42.4	1.510	2.369	15.7	21.6
10 8	2 38.97	+19 27.4	1.430	2.355	11.8	21.4
10 18	2 30.90	+18 55.9	1.371	2.342	7.2	21.1
10 28	2 21.10	+18 10.0	1.338	2.329	2.4	20.7
11 7	2 10.88	+17 14.5	1.331	2.315	3.9	20.8
11 17	2 1.64	+16 16.8	1.352	2.302	8.9	21.1
11 27	1 54.60	+15 25.3	1.397	2.288	13.6	21.3
12 7	1 50.51	+14 46.4	1.462	2.275	17.6	21.5

260875 2005 QO_{126} 10 30.3 359°.16 1°.1/29.4 18

9 28	2 40.70	+12 55.8	1.794	2.665	13.0	20.8
10 8	2 35.71	+12 19.9	1.728	2.664	9.4	20.5
10 18	2 28.76	+11 35.8	1.686	2.663	5.2	20.3
10 28	2 20.66	+10 47.8	1.671	2.663	1.3	20.0
11 7	2 12.42	+10 1.4	1.683	2.663	4.0	20.2
11 17	2 5.05	+ 9 21.9	1.724	2.664	8.2	20.5
11 27	1 59.42	+ 8 54.1	1.789	2.664	12.0	20.7
12 7	1 56.06	+ 8 40.8	1.876	2.665	15.2	20.9

265935 2006 BB_{166} 10 30.3 18°.66 0°.3/30.1 18

9 28	2 39.93	+14 51.3	1.720	2.590	13.5	20.2
10 8	2 35.18	+14 26.1	1.661	2.596	9.8	20.0
10 18	2 28.46	+13 51.5	1.626	2.603	5.5	19.8
10 28	2 20.60	+13 11.0	1.617	2.610	1.0	19.5
11 7	2 12.66	+12 29.9	1.635	2.618	3.6	19.7
11 17	2 5.65	+11 53.5	1.681	2.626	7.9	20.0
11 27	2 0.44	+11 26.7	1.752	2.635	11.7	20.2
12 7	1 57.54	+11 12.7	1.845	2.645	14.9	20.5

395521 2011 UA_{136} 10 30.3 56°.71 0°.5/29.9 18

9 28	2 43.05	+13 44.3	1.813	2.678	13.2	20.8
10 8	2 37.38	+13 24.7	1.748	2.680	9.5	20.6
10 18	2 29.70	+12 57.1	1.707	2.683	5.4	20.3
10 28	2 20.84	+12 24.5	1.693	2.686	1.0	20.0
11 7	2 11.85	+11 51.7	1.707	2.688	3.7	20.3
11 17	2 3.77	+11 23.3	1.749	2.691	7.9	20.5
11 27	1 57.48	+11 3.9	1.817	2.694	11.7	20.8
12 7	1 53.54	+10 56.5	1.907	2.697	14.9	21.0

68121 2001 AS_{11} 10 30.3 7°.28 1°.9/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 39.04	+20 50.3	1.208	2.084	17.6	18.5
10 8	2 35.28	+20 21.5	1.151	2.085	13.2	18.3
10 18	2 28.80	+19 31.9	1.113	2.087	8.0	18.0
10 28	2 20.69	+18 25.3	1.099	2.090	2.8	17.7
11 7	2 12.41	+17 9.7	1.110	2.094	4.2	17.8
11 17	2 5.40	+15 55.0	1.145	2.100	9.4	18.1
11 27	2 0.85	+14 51.0	1.203	2.107	14.3	18.4
12 7	1 59.34	+14 4.3	1.281	2.115	18.3	18.7

405813 2006 BC_{77} 10 30.3 305°.18 3°.2/27.5 18

9 28	2 39.60	+ 6 28.7	2.059	2.933	11.4	21.2
10 8	2 34.71	+ 5 39.3	1.989	2.926	8.2	21.0
10 18	2 28.14	+ 4 47.3	1.944	2.919	5.0	20.8
10 28	2 20.55	+ 3 57.7	1.927	2.911	3.2	20.7
11 7	2 12.81	+ 3 15.9	1.938	2.904	5.3	20.8
11 17	2 5.77	+ 2 46.1	1.977	2.897	8.7	21.0
11 27	2 0.21	+ 2 31.6	2.041	2.890	11.9	21.2
12 7	1 56.63	+ 2 33.4	2.127	2.884	14.6	21.4

210027 2006 KY_{113} 10 30.3 144°.32 1°.4/31.2 17

9 28	2 49.03	+18 37.9	1.596	2.446	15.4	20.5
10 8	2 41.94	+18 30.8	1.533	2.455	11.4	20.3
10 18	2 32.37	+18 9.9	1.494	2.464	6.8	20.0
10 28	2 21.36	+17 37.2	1.481	2.472	2.1	19.8
11 7	2 10.22	+16 57.3	1.496	2.479	3.7	19.9
11 17	2 0.29	+16 16.4	1.539	2.486	8.4	20.2
11 27	1 52.62	+15 41.1	1.608	2.492	12.6	20.5
12 7	1 47.83	+15 16.5	1.699	2.498	16.1	20.7

146297 2001 HY_{52} 10 30.3 109°.60 2°.3/28.9 17

9 28	2 47.64	+ 9 13.0	1.566	2.437	14.6	19.8
10 8	2 40.77	+ 8 49.9	1.514	2.449	10.5	19.6
10 18	2 31.62	+ 8 22.6	1.485	2.461	5.9	19.4
10 28	2 21.20	+ 7 55.4	1.483	2.473	2.4	19.2
11 7	2 10.77	+ 7 33.6	1.509	2.485	5.1	19.4
11 17	2 1.54	+ 7 21.4	1.562	2.496	9.4	19.7
11 27	1 54.47	+ 7 22.3	1.640	2.507	13.3	19.9
12 7	1 50.12	+ 7 37.3	1.739	2.517	16.6	20.2

521617 2015 PV_{320} 10 30.3 154°.42 1°.6/28.9 18

9 28	2 41.38	+11 0.8	2.037	2.904	11.9	21.4
10 8	2 35.98	+10 25.5	1.970	2.905	8.5	21.2
10 18	2 28.84	+ 9 44.5	1.929	2.905	4.8	21.0
10 28	2 20.69	+ 9 1.8	1.915	2.906	1.7	20.7
11 7	2 12.42	+ 8 22.1	1.930	2.906	4.0	20.9
11 17	2 4.93	+ 7 50.0	1.973	2.907	7.8	21.1
11 27	1 59.00	+ 7 29.1	2.043	2.908	11.2	21.4
12 7	1 55.14	+ 7 21.6	2.134	2.908	14.1	21.6

390198 2012 WZ_{26} 10 30.3 8°.79 7°.2/26.6 18

9 28	2 40.34	+ 0 38.4	1.079	1.983	17.1	19.4
10 8	2 36.18	− 0 10.8	1.038	1.985	12.8	19.1
10 18	2 29.27	− 0 54.0	1.016	1.988	8.8	18.9
10 28	2 20.78	− 1 22.1	1.016	1.993	7.3	18.9
11 7	2 12.23	− 1 27.7	1.040	2.000	9.7	19.0
11 17	2 5.07	− 1 7.5	1.086	2.009	13.8	19.3
11 27	2 0.42	− 0 22.0	1.152	2.019	17.8	19.6
12 7	1 58.86	+ 0 45.2	1.235	2.030	21.2	19.8

409745 2006 DB_{35} 10 30.3 270°.29 0°.4/30.6 17

9 28	2 40.94	+16 31.5	2.399	3.249	10.9	21.7
10 8	2 35.63	+16 14.3	2.308	3.232	8.0	21.5
10 18	2 28.68	+15 48.4	2.242	3.215	4.7	21.3
10 28	2 20.68	+15 15.7	2.205	3.197	1.1	21.0
11 7	2 12.43	+14 39.7	2.197	3.180	2.8	21.1
11 17	2 4.74	+14 4.2	2.219	3.162	6.4	21.3
11 27	1 58.37	+13 33.6	2.268	3.144	9.8	21.5
12 7	1 53.88	+13 11.3	2.341	3.126	12.6	21.7

298051 2002 QD_{37} 10 30.3 295°.06 2°.7/28.3 18

9 28	2 41.16	+ 9 23.5	1.738	2.615	13.1	20.7
10 8	2 36.21	+ 8 34.3	1.661	2.600	9.4	20.4
10 18	2 29.16	+ 7 38.7	1.607	2.585	5.5	20.1
10 28	2 20.78	+ 6 42.1	1.581	2.570	2.7	19.9
11 7	2 12.13	+ 5 50.9	1.582	2.555	5.3	20.1
11 17	2 4.26	+ 5 11.1	1.610	2.540	9.5	20.3
11 27	1 58.15	+ 4 47.3	1.662	2.526	13.4	20.5
12 7	1 54.43	+ 4 41.8	1.735	2.512	16.7	20.7

209093 2003 SO_{41} 10 30.3 359°.57 3°.9/31.8 18

9 28	2 48.69	+19 10.2	1.295	2.157	17.6	19.3
10 8	2 42.48	+20 24.9	1.229	2.154	13.4	19.0
10 18	2 33.08	+21 28.4	1.185	2.152	8.6	18.7
10 28	2 21.56	+22 17.7	1.165	2.151	4.4	18.5
11 7	2 9.52	+22 51.9	1.171	2.152	5.2	18.5
11 17	1 58.69	+23 13.4	1.203	2.153	9.8	18.8
11 27	1 50.56	+23 27.9	1.258	2.156	14.3	19.1
12 7	1 45.97	+23 42.1	1.334	2.159	18.2	19.3

381100 2007 CS_{25} 10 30.3 252°.79 3°.8/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.26	+24 59.2	1.613	2.450	15.9	21.7
10 8	2 39.51	+24 56.7	1.534	2.443	12.3	21.4
10 18	2 31.17	+24 34.4	1.477	2.435	8.3	21.2
10 28	2 21.18	+23 52.5	1.445	2.427	4.5	20.9
11 7	2 10.84	+22 54.6	1.439	2.419	4.6	20.9
11 17	2 1.51	+21 47.8	1.461	2.411	8.4	21.1
11 27	1 54.38	+20 41.0	1.509	2.403	12.6	21.3
12 7	1 50.17	+19 42.5	1.578	2.394	16.3	21.6

78306 2002 PY_{61} 10 30.3 19°.47 6°.3/25.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.93	− 1 25.6	1.784	2.666	12.5	18.6
10 8	2 34.28	− 2 28.7	1.740	2.673	9.5	18.5
10 18	2 27.88	− 3 26.4	1.719	2.680	7.0	18.3
10 28	2 20.52	− 4 11.7	1.724	2.688	6.4	18.3
11 7	2 13.13	− 4 39.3	1.755	2.697	8.2	18.4
11 17	2 6.64	− 4 46.0	1.812	2.706	11.0	18.6
11 27	2 1.80	− 4 31.3	1.892	2.716	13.8	18.8
12 7	1 59.07	− 3 56.9	1.992	2.727	16.2	19.0

255050 2005 TS_{137} 10 30.3 54°.58 1°.7/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.47	+10 42.6	1.942	2.811	12.2	20.8
10 8	2 36.08	+10 10.4	1.881	2.816	8.8	20.6
10 18	2 28.91	+ 9 33.0	1.844	2.821	4.9	20.4
10 28	2 20.72	+ 8 54.4	1.835	2.826	1.7	20.2
11 7	2 12.45	+ 8 19.2	1.855	2.832	4.2	20.4
11 17	2 5.01	+ 7 51.9	1.902	2.837	7.9	20.6
11 27	1 59.21	+ 7 36.1	1.976	2.843	11.4	20.8
12 7	1 55.53	+ 7 33.6	2.071	2.848	14.3	21.1

423840 2006 QM_{25} 10 30.3 75°.60 1°.1/30.9 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.99	+17 57.3	1.319	2.183	17.2	21.3
10 8	2 42.00	+17 44.3	1.277	2.206	12.6	21.1
10 18	2 32.37	+17 16.4	1.257	2.230	7.3	20.9
10 28	2 21.36	+16 37.1	1.262	2.254	2.0	20.6
11 7	2 10.51	+15 52.5	1.293	2.277	4.0	20.8
11 17	2 1.22	+15 9.8	1.351	2.300	9.1	21.2
11 27	1 54.53	+14 35.9	1.434	2.323	13.5	21.5
12 7	1 50.95	+14 15.5	1.537	2.345	17.1	21.8

298066 2002 QR_{96} 10 30.3 342°.62 9°.6/23.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.70	− 5 48.7	1.379	2.267	15.1	19.8
10 8	2 35.41	− 7 14.0	1.327	2.257	12.1	19.6
10 18	2 28.77	− 8 29.2	1.297	2.248	10.0	19.5
10 28	2 20.72	− 9 23.7	1.290	2.240	9.8	19.4
11 7	2 12.49	− 9 49.7	1.306	2.232	11.9	19.5
11 17	2 5.29	− 9 43.5	1.345	2.226	14.9	19.7
11 27	2 0.18	− 9 5.4	1.404	2.220	18.1	19.9
12 7	1 57.75	− 8 0.0	1.480	2.216	20.8	20.1

47229 1999 VT_{27} 10 30.3 284°.17 1°.1/30.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.56	+16 29.0	1.434	2.298	16.1	18.7
10 8	2 41.31	+16 40.4	1.363	2.293	11.9	18.4
10 18	2 32.26	+16 40.4	1.314	2.287	7.0	18.1
10 28	2 21.41	+16 30.3	1.290	2.282	1.9	17.8
11 7	2 10.17	+16 13.7	1.293	2.277	4.1	17.9
11 17	2 0.03	+15 55.8	1.323	2.271	9.2	18.2
11 27	1 52.28	+15 42.6	1.377	2.266	13.9	18.5
12 7	1 47.65	+15 39.2	1.451	2.261	17.8	18.7

98877 2001 BK_{19} 10 30.3 143°.54 6°.5/25.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.92	− 3 41.6	1.998	2.864	12.1	19.5
10 8	2 37.70	− 4 40.3	1.949	2.871	9.3	19.4
10 18	2 29.76	− 5 32.1	1.926	2.879	7.1	19.2
10 28	2 20.88	− 6 10.8	1.929	2.885	6.6	19.2
11 7	2 12.00	− 6 31.7	1.961	2.892	8.2	19.3
11 17	2 4.00	− 6 32.3	2.019	2.897	10.7	19.5
11 27	1 57.65	− 6 12.3	2.100	2.903	13.3	19.7
12 7	1 53.41	− 5 33.7	2.202	2.908	15.6	19.9

189617 2001 BV_{23} 10 30.3 184°.44 4°.7/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.88	+32 48.6	2.824	3.596	11.5	20.6
10 8	2 36.91	+32 53.2	2.739	3.596	9.4	20.5
10 18	2 29.34	+32 41.8	2.677	3.595	7.1	20.3
10 28	2 20.82	+32 13.7	2.642	3.595	5.2	20.2
11 7	2 12.14	+31 30.5	2.636	3.593	4.7	20.2
11 17	2 4.12	+30 35.8	2.659	3.592	6.1	20.3
11 27	1 57.47	+29 34.7	2.710	3.590	8.2	20.4
12 7	1 52.70	+28 33.0	2.788	3.587	10.4	20.6

427061 2014 UD 10 30.3 326°.79 2°.5/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.38	+ 7 45.0	2.204	3.075	10.9	20.8
10 8	2 34.47	+ 7 8.1	2.135	3.071	7.8	20.6
10 18	2 27.99	+ 6 28.4	2.091	3.066	4.6	20.4
10 28	2 20.57	+ 5 50.0	2.074	3.062	2.5	20.3
11 7	2 13.01	+ 5 17.2	2.087	3.058	4.5	20.4
11 17	2 6.12	+ 4 53.8	2.128	3.054	7.8	20.6
11 27	2 0.62	+ 4 42.8	2.195	3.050	10.9	20.8
12 7	1 56.98	+ 4 45.4	2.284	3.046	13.6	21.0

336781 2011 BX_{124} 10 30.3 109°.12 0°.8/29.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.75	+13 46.8	1.662	2.525	14.3	21.8
10 8	2 40.03	+13 17.4	1.610	2.541	10.3	21.6
10 18	2 31.17	+12 39.1	1.582	2.558	5.7	21.4
10 28	2 21.16	+11 56.0	1.581	2.573	1.2	21.1
11 7	2 11.17	+11 13.6	1.608	2.589	4.0	21.4
11 17	2 2.34	+10 37.5	1.663	2.604	8.4	21.7
11 27	1 55.58	+10 12.4	1.744	2.618	12.3	21.9
12 7	1 51.39	+10 1.1	1.847	2.632	15.5	22.2

151368 2002 ET_{3} 10 30.3 263°.69 4°.1/26.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.20	+ 4 21.6	2.117	2.992	11.1	20.1
10 8	2 34.36	+ 3 9.3	2.052	2.988	8.1	19.9
10 18	2 27.93	+ 1 55.8	2.013	2.984	5.3	19.7
10 28	2 20.56	+ 0 46.9	2.002	2.980	4.2	19.7
11 7	2 13.08	− 0 11.3	2.020	2.976	6.1	19.8
11 17	2 6.30	− 0 54.1	2.065	2.972	9.2	20.0
11 27	2 0.95	− 1 18.7	2.136	2.967	12.1	20.1
12 7	1 57.50	− 1 24.4	2.227	2.963	14.6	20.3

439089 2011 QN_{28} 10 30.3 41°.91 8°.4/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.82	+35 22.4	1.462	2.261	19.1	20.2
10 8	2 40.09	+35 54.8	1.411	2.279	15.9	20.0
10 18	2 31.50	+35 57.9	1.378	2.297	12.4	19.8
10 28	2 21.25	+35 29.0	1.367	2.316	9.5	19.7
11 7	2 10.95	+34 30.9	1.381	2.336	8.4	19.7
11 17	2 2.13	+33 11.6	1.419	2.356	9.9	19.9
11 27	1 55.98	+31 42.5	1.482	2.377	12.7	20.1
12 7	1 53.07	+30 15.1	1.567	2.397	15.7	20.3

90167 2003 AK_{8} 10 30.3 14°.13 2°.1/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.51	+11 41.6	1.015	1.915	18.1	18.4
10 8	2 36.53	+11 8.2	0.970	1.920	13.0	18.1
10 18	2 29.58	+10 25.1	0.944	1.926	7.3	17.8
10 28	2 20.90	+ 9 39.1	0.941	1.933	2.2	17.6
11 7	2 12.13	+ 8 58.8	0.961	1.943	5.9	17.8
11 17	2 4.86	+ 8 31.7	1.005	1.953	11.4	18.2
11 27	2 0.29	+ 8 23.3	1.069	1.965	16.4	18.5
12 7	1 59.00	+ 8 35.0	1.151	1.978	20.4	18.8

381057 2006 WS_{179} 10 30.3 319°.12 1°.9/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.09	+11 32.9	1.243	2.130	16.5	20.9
10 8	2 38.35	+11 6.9	1.172	2.115	12.0	20.6
10 18	2 30.71	+10 31.6	1.122	2.101	6.8	20.3
10 28	2 21.15	+ 9 52.1	1.095	2.087	2.0	19.9
11 7	2 11.13	+ 9 15.4	1.094	2.074	5.5	20.1
11 17	2 2.20	+ 8 48.5	1.117	2.061	11.0	20.4
11 27	1 55.71	+ 8 37.6	1.162	2.049	16.1	20.7
12 7	1 52.46	+ 8 45.5	1.226	2.038	20.3	20.9

210651 2000 JX_{7} 10 30.3 19°.13 1°.1/31.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.32	+17 21.7	1.776	2.632	13.8	20.0
10 8	2 38.45	+17 23.1	1.707	2.632	10.2	19.8
10 18	2 30.41	+17 13.7	1.662	2.633	6.0	19.6
10 28	2 21.06	+16 55.4	1.643	2.635	1.8	19.3
11 7	2 11.51	+16 31.4	1.652	2.636	3.4	19.4
11 17	2 2.88	+16 6.5	1.690	2.637	7.7	19.7
11 27	1 56.15	+15 46.0	1.753	2.639	11.6	19.9
12 7	1 51.92	+15 33.9	1.839	2.640	14.9	20.2

468026 2013 NR_{7} 10 30.3 45°.66 0°.4/30.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.56	+15 56.1	1.055	1.941	18.8	20.9
10 8	2 39.24	+15 13.7	1.016	1.958	13.5	20.7
10 18	2 30.98	+14 15.9	0.997	1.976	7.6	20.4
10 28	2 21.15	+13 9.4	1.001	1.994	1.4	20.1
11 7	2 11.44	+12 3.7	1.030	2.013	4.9	20.4
11 17	2 3.41	+11 8.1	1.082	2.032	10.6	20.8
11 27	1 58.19	+10 30.1	1.157	2.052	15.5	21.1
12 7	1 56.27	+10 12.8	1.250	2.072	19.4	21.4

243510 2009 WE_{84} 10 30.3 303°.45 2°.0/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.17	+20 59.3	2.152	2.993	12.3	21.0
10 8	2 36.03	+20 58.3	2.064	2.979	9.3	20.8
10 18	2 29.02	+20 45.2	2.000	2.965	5.9	20.5
10 28	2 20.81	+20 21.0	1.963	2.951	2.6	20.3
11 7	2 12.30	+19 48.4	1.955	2.937	3.2	20.3
11 17	2 4.44	+19 11.7	1.975	2.923	6.7	20.5
11 27	1 58.11	+18 36.1	2.022	2.910	10.2	20.7
12 7	1 53.89	+18 6.4	2.093	2.897	13.3	20.9

298205 2002 TS_{298} 10 30.3 51°.75 1°.9/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.38	+19 37.2	1.456	2.312	16.3	20.0
10 8	2 40.58	+19 35.3	1.421	2.345	12.0	19.8
10 18	2 31.47	+19 18.5	1.409	2.378	7.2	19.7
10 28	2 21.22	+18 49.2	1.422	2.412	2.6	19.5
11 7	2 11.20	+18 12.6	1.462	2.445	3.7	19.6
11 17	2 2.64	+17 35.0	1.530	2.479	8.1	20.0
11 27	1 56.45	+17 2.8	1.622	2.513	12.1	20.3
12 7	1 53.06	+16 40.7	1.737	2.547	15.3	20.6

404091 2012 FO_9 10 30.3 78°.33 3°.2/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 43.28	+24 45.0	2.207	3.030	12.7	20.7
10 8	2 37.36	+24 53.5	2.142	3.041	9.8	20.5
10 18	2 29.65	+24 47.8	2.100	3.053	6.6	20.3
10 28	2 20.91	+24 28.5	2.085	3.065	3.8	20.2
11 7	2 12.07	+23 58.0	2.100	3.077	3.7	20.2
11 17	2 4.05	+23 20.6	2.143	3.089	6.4	20.4
11 27	1 57.66	+22 41.6	2.213	3.100	9.5	20.6
12 7	1 53.40	+22 6.3	2.308	3.112	12.2	20.8

454578 2014 PG_{18} 10 30.3 33°.13 0°.1/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.34	+14 56.8	1.982	2.843	12.4	21.2
10 8	2 36.04	+14 38.2	1.917	2.847	9.0	21.0
10 18	2 28.94	+14 11.4	1.877	2.852	5.1	20.8
10 28	2 20.80	+13 39.0	1.863	2.856	0.9	20.5
11 7	2 12.54	+13 5.2	1.879	2.861	3.2	20.7
11 17	2 5.09	+12 34.5	1.922	2.866	7.2	20.9
11 27	1 59.27	+12 11.2	1.992	2.871	10.8	21.2
12 7	1 55.58	+11 58.4	2.084	2.876	13.8	21.4

246243 2007 RH_{323} 10 30.3 117°.47 1°.7/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.35	+22 16.3	1.991	2.830	13.3	20.2
10 8	2 36.76	+21 34.1	1.925	2.839	9.9	20.0
10 18	2 29.32	+20 36.5	1.883	2.849	6.1	19.8
10 28	2 20.86	+19 26.2	1.868	2.857	2.4	19.6
11 7	2 12.37	+18 8.7	1.883	2.866	3.1	19.7
11 17	2 4.79	+16 50.9	1.927	2.874	6.9	19.9
11 27	1 58.93	+15 39.4	1.998	2.883	10.4	20.2
12 7	1 55.28	+14 39.8	2.092	2.890	13.5	20.4

232181 2002 EP_{68} 10 30.3 155°.85 4°.1/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.41	+25 24.9	1.879	2.702	14.6	20.6
10 8	2 40.74	+25 47.7	1.807	2.705	11.4	20.4
10 18	2 31.77	+25 54.3	1.757	2.708	7.8	20.2
10 28	2 21.36	+25 43.7	1.734	2.711	4.7	20.1
11 7	2 10.70	+25 18.0	1.738	2.714	4.6	20.1
11 17	2 1.00	+24 41.8	1.771	2.716	7.6	20.3
11 27	1 53.30	+24 1.7	1.831	2.718	11.1	20.5
12 7	1 48.25	+23 24.6	1.914	2.720	14.2	20.7

266027 2006 FC_{48} 10 30.3 261°.93 2°.2/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.70	+ 8 6.9	2.346	3.212	10.5	20.5
10 8	2 35.40	+ 7 37.1	2.269	3.202	7.6	20.3
10 18	2 28.54	+ 7 4.3	2.218	3.193	4.4	20.0
10 28	2 20.73	+ 6 32.1	2.196	3.184	2.2	19.9
11 7	2 12.76	+ 6 4.5	2.202	3.174	4.2	20.0
11 17	2 5.39	+ 5 44.9	2.238	3.165	7.4	20.2
11 27	1 59.35	+ 5 36.2	2.301	3.155	10.5	20.4
12 7	1 55.13	+ 5 39.8	2.386	3.146	13.1	20.5

523253 2017 AR_{22} 10 30.3 218°.93 3°.6/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.72	+27 18.6	2.343	3.154	12.4	21.6
10 8	2 36.28	+27 11.1	2.260	3.151	9.7	21.4
10 18	2 29.09	+26 47.7	2.202	3.148	6.8	21.2
10 28	2 20.84	+26 8.9	2.170	3.145	4.2	21.0
11 7	2 12.42	+25 17.3	2.167	3.142	3.9	21.0
11 17	2 4.71	+24 17.7	2.193	3.138	6.3	21.2
11 27	1 58.52	+23 16.0	2.247	3.135	9.3	21.4
12 7	1 54.37	+22 18.3	2.325	3.131	12.1	21.5

274836 2009 QT_{14} 10 30.3 36°.09 3°.0/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.36	+10 50.7	1.297	2.184	15.9	20.5
10 8	2 37.39	+ 9 42.1	1.245	2.189	11.4	20.3
10 18	2 29.91	+ 8 24.6	1.215	2.194	6.5	20.0
10 28	2 21.00	+ 7 6.1	1.210	2.200	3.0	19.8
11 7	2 12.02	+ 5 56.0	1.231	2.206	6.1	20.0
11 17	2 4.30	+ 5 2.3	1.277	2.213	10.9	20.3
11 27	1 58.88	+ 4 30.3	1.346	2.220	15.3	20.6
12 7	1 56.32	+ 4 21.5	1.434	2.227	18.8	20.9

37963 1998 HF_{79} 10 30.3 307°.20 2°.5/ 1.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.92	+21 32.8	1.553	2.407	15.6	17.9
10 8	2 37.90	+21 26.0	1.472	2.394	11.8	17.7
10 18	2 30.34	+21 2.0	1.414	2.381	7.5	17.4
10 28	2 21.12	+20 22.0	1.380	2.368	3.2	17.1
11 7	2 11.49	+19 30.2	1.373	2.356	4.0	17.1
11 17	2 2.80	+18 33.5	1.393	2.344	8.5	17.4
11 27	1 56.24	+17 40.2	1.437	2.333	13.0	17.6
12 7	1 52.54	+16 57.2	1.503	2.321	16.9	17.8

295353 2008 HN_{33} 10 30.3 273°.48 2°.6/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.04	+11 34.8	1.547	2.423	14.4	20.9
10 8	2 37.90	+10 22.9	1.464	2.403	10.5	20.6
10 18	2 30.31	+ 8 59.0	1.404	2.382	6.0	20.3
10 28	2 21.11	+ 7 29.7	1.370	2.360	2.6	20.0
11 7	2 11.50	+ 6 3.9	1.364	2.339	5.8	20.2
11 17	2 2.75	+ 4 50.7	1.385	2.317	10.6	20.4
11 27	1 56.01	+ 3 57.3	1.430	2.295	15.1	20.6
12 7	1 52.00	+ 3 27.3	1.494	2.272	18.9	20.8

85728 1998 SR_{75} 10 30.3 24°.61 1°.1/29.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 42.01	+14 55.5	0.918	1.817	19.7	19.8
10 8	2 37.83	+14 10.8	0.876	1.825	14.2	19.5
10 18	2 30.40	+13 10.0	0.852	1.833	8.0	19.2
10 28	2 21.10	+12 0.7	0.850	1.843	1.6	18.9
11 7	2 11.78	+10 53.9	0.871	1.854	5.6	19.2
11 17	2 4.15	+ 9 59.9	0.914	1.866	11.7	19.6
11 27	1 59.51	+ 9 26.6	0.978	1.879	17.0	19.9
12 7	1 58.41	+ 9 16.9	1.058	1.893	21.3	20.3

76444 2000 FA_{32} 10 30.3 160°.90 2°.7/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.41	+ 5 52.3	2.236	3.097	11.2	19.3
10 8	2 38.73	+ 5 35.7	2.172	3.102	8.1	19.1
10 18	2 30.40	+ 5 18.5	2.134	3.106	4.8	18.9
10 28	2 21.10	+ 5 4.1	2.124	3.110	2.7	18.8
11 7	2 11.72	+ 4 55.8	2.145	3.114	4.6	18.9
11 17	2 3.12	+ 4 56.2	2.195	3.117	7.8	19.1
11 27	1 56.03	+ 5 7.4	2.272	3.120	10.9	19.3
12 7	1 50.95	+ 5 29.8	2.371	3.122	13.5	19.5

138078 2000 DQ_{58} 10 30.3 137°.83 1°.5/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.03	+12 3.9	1.980	2.845	12.2	20.3
10 8	2 36.50	+11 18.4	1.916	2.850	8.7	20.1
10 18	2 29.19	+10 25.8	1.878	2.855	4.9	19.9
10 28	2 20.88	+ 9 30.8	1.867	2.859	1.6	19.6
11 7	2 12.48	+ 8 38.5	1.886	2.863	4.0	19.8
11 17	2 4.92	+ 7 54.2	1.933	2.867	7.9	20.1
11 27	1 58.98	+ 7 22.2	2.006	2.871	11.3	20.3
12 7	1 55.17	+ 7 4.7	2.101	2.875	14.3	20.5

382050 2011 DK_{25} 10 30.3 117°.18 4°.3/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.18	+26 21.5	1.616	2.445	16.3	20.8
10 8	2 40.75	+26 23.0	1.552	2.454	12.6	20.6
10 18	2 31.81	+26 3.9	1.510	2.463	8.6	20.3
10 28	2 21.39	+25 24.4	1.493	2.472	5.0	20.2
11 7	2 10.84	+24 28.4	1.503	2.481	4.8	20.2
11 17	2 1.50	+23 23.0	1.541	2.489	8.2	20.4
11 27	1 54.45	+22 17.2	1.604	2.497	12.0	20.6
12 7	1 50.30	+21 18.9	1.690	2.505	15.5	20.9

383531 2007 DE_{48} 10 30.3 294°.01 4°.8/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.60	+25 38.9	1.530	2.366	16.7	20.8
10 8	2 40.71	+26 4.8	1.454	2.360	13.1	20.5
10 18	2 32.01	+26 11.5	1.400	2.354	9.1	20.3
10 28	2 21.47	+25 57.4	1.369	2.348	5.5	20.1
11 7	2 10.50	+25 24.6	1.366	2.342	5.4	20.1
11 17	2 0.59	+24 38.9	1.388	2.336	8.9	20.3
11 27	1 53.04	+23 48.9	1.435	2.331	13.0	20.5
12 7	1 48.62	+23 3.2	1.504	2.325	16.7	20.7

514133 2015 HY_{133} 10 30.3 293°.20 0°.9/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.18	+15 36.8	1.445	2.319	15.4	21.4
10 8	2 37.30	+14 36.4	1.375	2.311	11.2	21.1
10 18	2 29.94	+13 21.0	1.326	2.304	6.3	20.8
10 28	2 21.06	+11 56.3	1.304	2.297	1.3	20.5
11 7	2 11.92	+10 30.9	1.308	2.289	4.6	20.7
11 17	2 3.84	+ 9 14.0	1.339	2.282	9.7	21.0
11 27	1 57.91	+ 8 13.8	1.394	2.275	14.3	21.2
12 7	1 54.78	+ 7 34.6	1.469	2.268	18.1	21.5

254825 2005 QU_{145} 10 30.3 74°.54 2°.2/28.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.48	+ 8 34.9	1.923	2.792	12.4	20.4
10 8	2 37.52	+ 8 12.6	1.868	2.802	8.9	20.2
10 18	2 29.76	+ 7 47.2	1.837	2.813	5.1	20.0
10 28	2 21.00	+ 7 22.7	1.835	2.824	2.2	19.8
11 7	2 12.20	+ 7 3.3	1.860	2.835	4.5	20.0
11 17	2 4.29	+ 6 52.3	1.914	2.846	8.1	20.3
11 27	1 58.09	+ 6 52.6	1.994	2.857	11.5	20.5
12 7	1 54.07	+ 7 5.3	2.096	2.868	14.4	20.7

285275 1998 RZ_{24} 10 30.3 17°.24 11°.7/ 6.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.68	+36 1.6	1.147	1.963	22.3	19.2
10 8	2 40.90	+37 42.0	1.100	1.974	19.0	19.1
10 18	2 32.42	+38 49.7	1.071	1.986	15.5	18.9
10 28	2 21.56	+39 17.5	1.061	2.000	12.7	18.8
11 7	2 10.34	+39 4.3	1.072	2.016	11.7	18.8
11 17	2 0.82	+38 17.0	1.104	2.034	12.9	18.9
11 27	1 54.64	+37 8.5	1.158	2.053	15.5	19.1
12 7	1 52.52	+35 53.2	1.231	2.074	18.4	19.4

221399 2005 YN_{63} 10 30.3 68°.67 1°.3/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.48	+11 39.4	2.022	2.887	12.0	20.5
10 8	2 36.67	+11 11.4	1.975	2.907	8.6	20.3
10 18	2 29.21	+10 38.0	1.952	2.928	4.8	20.1
10 28	2 20.88	+10 3.0	1.957	2.949	1.4	19.9
11 7	2 12.60	+ 9 30.6	1.991	2.970	3.7	20.1
11 17	2 5.22	+ 9 4.9	2.054	2.990	7.3	20.4
11 27	1 59.46	+ 8 49.0	2.143	3.011	10.6	20.6
12 7	1 55.75	+ 8 44.9	2.255	3.031	13.3	20.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
279545 2011 CU_{29}		10 30.3 152°30	1°9/31.7 18			
	h m	° ′			°	m
9 28	2 45.60	+21 1.6	1.638	2.486	15.2	20.7
10 8	2 39.53	+20 41.5	1.570	2.490	11.4	20.5
10 18	2 31.10	+20 5.1	1.526	2.493	7.0	20.2
10 28	2 21.27	+19 14.4	1.507	2.496	2.7	20.0
11 7	2 11.29	+18 14.8	1.516	2.499	3.7	20.0
11 17	2 2.39	+17 13.2	1.553	2.502	8.1	20.3
11 27	1 55.61	+16 17.4	1.616	2.504	12.2	20.6
12 7	1 51.55	+15 33.4	1.701	2.506	15.8	20.8
14551 Itagaki		10 30.3 87°27	0°8/30.9 18			
9 28	2 46.21	+17 5.8	1.936	2.784	13.2	17.8
10 8	2 39.46	+17 0.8	1.885	2.807	9.6	17.6
10 18	2 30.83	+16 45.8	1.858	2.829	5.6	17.5
10 28	2 21.20	+16 23.1	1.859	2.851	1.5	17.2
11 7	2 11.60	+15 56.2	1.890	2.873	3.1	17.4
11 17	2 3.02	+15 29.6	1.949	2.894	7.0	17.7
11 27	1 56.29	+15 7.8	2.035	2.915	10.5	17.9
12 7	1 51.86	+14 54.3	2.145	2.935	13.5	18.2
360508 2003 NN_{12}		10 30.3 113°09	6°6/23.0 18			
9 28	2 40.22	− 7 54.0	2.578	3.434	10.0	21.3
10 8	2 34.74	− 9 13.3	2.545	3.452	8.1	21.2
10 18	2 28.02	−10 24.0	2.539	3.470	6.8	21.1
10 28	2 20.65	−11 20.5	2.560	3.488	6.8	21.2
11 7	2 13.34	−11 58.9	2.609	3.505	8.0	21.3
11 17	2 6.71	−12 17.2	2.685	3.522	9.8	21.4
11 27	2 1.34	−12 15.4	2.784	3.538	11.6	21.6
12 7	1 57.58	−11 55.2	2.902	3.554	13.2	21.7
356158 2009 HA_{29}		10 30.3 343°07	1°3/29.5 18			
9 28	2 42.61	+12 1.5	1.684	2.555	13.7	21.1
10 8	2 37.28	+11 38.0	1.616	2.553	9.9	20.8
10 18	2 29.80	+11 7.2	1.573	2.550	5.6	20.6
10 28	2 21.03	+10 33.2	1.555	2.548	1.5	20.3
11 7	2 12.06	+10 1.0	1.566	2.545	4.2	20.5
11 17	2 4.01	+ 9 35.5	1.603	2.544	8.7	20.7
11 27	1 57.84	+ 9 21.3	1.665	2.542	12.6	21.0
12 7	1 54.14	+ 9 20.8	1.749	2.541	16.0	21.2
440162 2003 WH_{56}		10 30.3 200°77	5°9/ 5.4 18			
9 28	2 43.85	+35 18.6	2.005	2.783	15.4	20.6
10 8	2 38.14	+34 50.4	1.922	2.782	12.6	20.4
10 18	2 30.25	+33 56.1	1.860	2.781	9.6	20.2
10 28	2 21.11	+32 35.4	1.823	2.779	6.9	20.0
11 7	2 11.85	+30 52.3	1.814	2.777	6.0	20.0
11 17	2 3.62	+28 54.2	1.833	2.775	7.7	20.1
11 27	1 57.35	+26 51.5	1.881	2.773	10.6	20.3
12 7	1 53.62	+24 54.2	1.954	2.770	13.6	20.5
103317 2000 AK_{60}		10 30.3 15°19	6°5/24.4 18			
9 28	2 39.78	− 4 33.7	2.167	3.036	11.2	18.6
10 8	2 34.74	− 5 37.1	2.115	3.036	8.7	18.4
10 18	2 28.15	− 6 33.8	2.088	3.037	6.9	18.3
10 28	2 20.70	− 7 17.8	2.088	3.038	6.6	18.3
11 7	2 13.18	− 7 44.5	2.115	3.039	8.1	18.4
11 17	2 6.39	− 7 51.1	2.168	3.040	10.4	18.6
11 27	2 1.02	− 7 37.2	2.245	3.041	12.8	18.7
12 7	1 57.50	− 7 4.4	2.342	3.042	14.9	18.9
342398 2008 UL_{52}		10 30.3 275°32	2°3/ 1.3 18			
9 28	2 41.81	+24 7.5	1.717	2.559	14.9	20.0
10 8	2 36.78	+23 16.5	1.639	2.553	11.3	19.8
10 18	2 29.55	+22 4.4	1.584	2.548	7.2	19.6
10 28	2 20.98	+20 34.3	1.555	2.543	3.1	19.3
11 7	2 12.24	+18 52.9	1.554	2.538	3.6	19.3
11 17	2 4.46	+17 9.2	1.582	2.532	7.8	19.6
11 27	1 58.64	+15 32.9	1.636	2.527	12.0	19.8
12 7	1 55.35	+14 11.5	1.713	2.522	15.5	20.0
98640 2000 WE_{121}		10 30.3 298°02	2°4/ 1.1 18			
9 28	2 43.17	+21 53.9	1.635	2.484	15.2	19.7
10 8	2 37.95	+21 42.6	1.557	2.475	11.5	19.4
10 18	2 30.31	+21 14.3	1.501	2.467	7.3	19.2
10 28	2 21.15	+20 30.3	1.470	2.458	3.2	18.9
11 7	2 11.66	+19 35.1	1.467	2.450	3.8	18.9
11 17	2 3.11	+18 35.4	1.490	2.441	8.2	19.2
11 27	1 56.60	+17 39.3	1.540	2.433	12.4	19.4
12 7	1 52.83	+16 53.4	1.610	2.425	16.1	19.6
437270 2012 XM_{139}		10 30.3 4°57	0°7/30.8 18			
9 28	2 35.04	+18 54.6	0.998	1.894	18.8	18.6
10 8	2 32.77	+18 10.6	0.947	1.893	13.8	18.4
10 18	2 27.57	+17 4.7	0.915	1.894	8.1	18.1
10 28	2 20.62	+15 43.1	0.904	1.897	1.9	17.7
11 7	2 13.48	+14 16.7	0.917	1.902	4.6	17.9
11 17	2 7.72	+12 57.2	0.952	1.909	10.5	18.3
11 27	2 4.54	+11 55.3	1.008	1.918	15.7	18.6
12 7	2 4.55	+11 16.4	1.082	1.929	20.0	18.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
140466 2001 TU_{130}		10 30.3 38°29	4°9/26.9 18			
	h m	° ′			°	m
9 28	2 42.02	+ 3 3.1	1.630	2.512	13.5	19.0
10 8	2 36.69	+ 2 13.1	1.583	2.521	9.9	18.8
10 18	2 29.36	+ 1 24.8	1.559	2.530	6.4	18.7
10 28	2 20.93	+ 0 44.5	1.561	2.540	4.9	18.6
11 7	2 12.49	+ 0 18.0	1.590	2.549	7.0	18.8
11 17	2 5.07	+ 0 9.0	1.645	2.560	10.5	19.0
11 27	1 59.52	+ 0 19.0	1.723	2.570	13.8	19.2
12 7	1 56.35	+ 0 47.3	1.821	2.581	16.6	19.5
317351 2002 LX_{44}		10 30.3 134°04	6°4/25.7 17			
9 28	2 46.18	− 0 8.5	1.682	2.554	13.6	21.3
10 8	2 39.56	− 1 27.0	1.638	2.567	10.2	21.1
10 18	2 30.94	− 2 41.2	1.618	2.580	7.3	20.9
10 28	2 21.24	− 3 43.0	1.626	2.592	6.5	20.9
11 7	2 11.59	− 4 26.0	1.660	2.603	8.4	21.1
11 17	2 3.05	− 4 46.3	1.722	2.614	11.5	21.3
11 27	1 56.48	− 4 42.9	1.806	2.623	14.6	21.5
12 7	1 52.35	− 4 18.0	1.910	2.633	17.2	21.7
182531 2001 TO_{22}		10 30.3 1°85	2°2/28.7 18			
9 28	2 39.88	+11 3.6	1.601	2.481	13.8	20.1
10 8	2 35.33	+10 12.3	1.540	2.480	9.9	19.9
10 18	2 28.70	+ 9 13.4	1.501	2.480	5.6	19.6
10 28	2 20.83	+ 8 12.8	1.489	2.480	2.2	19.4
11 7	2 12.83	+ 7 17.2	1.504	2.481	5.0	19.6
11 17	2 5.77	+ 6 32.9	1.546	2.482	9.3	19.8
11 27	2 0.58	+ 6 4.8	1.612	2.484	13.2	20.1
12 7	1 57.81	+ 5 55.0	1.698	2.487	16.5	20.3
439164 2011 UG_{336}		10 30.3 332°47	6°6/26.5 18			
9 28	2 43.08	− 1 2.5	1.493	2.376	14.4	20.2
10 8	2 37.84	− 1 40.6	1.429	2.364	11.0	19.9
10 18	2 30.22	− 2 13.0	1.388	2.353	7.8	19.7
10 28	2 21.14	− 2 32.5	1.371	2.342	6.7	19.6
11 7	2 11.80	− 2 33.2	1.380	2.332	8.7	19.7
11 17	2 3.43	− 2 12.1	1.414	2.323	12.3	19.9
11 27	1 57.09	− 1 28.7	1.470	2.315	15.9	20.1
12 7	1 53.45	− 0 25.3	1.545	2.307	19.0	20.3
233877 2008 WY_{78}		10 30.3 87°92	3°7/27.8 18			
9 28	2 44.94	+ 6 4.8	1.696	2.569	13.5	20.3
10 8	2 38.64	+ 5 17.8	1.652	2.588	9.7	20.1
10 18	2 30.40	+ 4 29.8	1.632	2.606	5.8	19.9
10 28	2 21.13	+ 3 46.4	1.639	2.624	3.7	19.8
11 7	2 11.94	+ 3 13.2	1.675	2.642	5.9	20.0
11 17	2 3.85	+ 2 54.3	1.737	2.659	9.5	20.3
11 27	1 57.68	+ 2 52.0	1.824	2.676	12.9	20.5
12 7	1 53.90	+ 3 6.2	1.932	2.693	15.8	20.7
441929 2010 JB_{34}		10 30.3 211°41	5°0/26.1 18			
9 28	2 44.49	− 0 47.4	2.276	3.138	11.0	21.8
10 8	2 38.13	− 1 32.8	2.207	3.131	8.3	21.6
10 18	2 30.11	− 2 14.8	2.163	3.123	5.9	21.4
10 28	2 21.10	− 2 48.4	2.148	3.115	5.1	21.4
11 7	2 11.95	− 3 9.1	2.162	3.106	6.7	21.4
11 17	2 3.48	− 3 13.9	2.204	3.096	9.4	21.6
11 27	1 56.46	− 3 1.8	2.272	3.085	12.1	21.8
12 7	1 51.39	− 2 33.2	2.361	3.074	14.5	21.9
302761 2002 VT_{79}		10 30.3 341°59	0°1/30.2 18			
9 28	2 37.93	+17 44.0	1.447	2.322	15.3	19.8
10 8	2 34.25	+16 42.2	1.375	2.312	11.2	19.5
10 18	2 28.23	+15 22.9	1.325	2.302	6.4	19.2
10 28	2 20.76	+13 51.6	1.301	2.294	1.2	18.8
11 7	2 13.05	+12 16.9	1.303	2.286	4.1	19.0
11 17	2 6.31	+10 48.7	1.331	2.279	9.2	19.3
11 27	2 1.61	+ 9 35.9	1.383	2.273	13.8	19.6
12 7	1 59.56	+ 8 44.0	1.456	2.268	17.6	19.8
115626 2003 UU_{121}		10 30.3 31°36	10°9/23.0 18			
9 28	2 42.54	−10 45.9	1.449	2.321	15.4	18.5
10 8	2 37.21	−12 10.0	1.416	2.329	12.8	18.3
10 18	2 29.69	−13 16.9	1.406	2.338	11.2	18.3
10 28	2 21.01	−13 57.3	1.419	2.347	11.2	18.3
11 7	2 12.39	−14 5.5	1.455	2.357	12.8	18.4
11 17	2 4.97	−13 40.6	1.513	2.367	15.2	18.6
11 27	1 59.64	−12 45.4	1.591	2.377	17.6	18.8
12 7	1 56.90	−11 25.6	1.686	2.388	19.8	19.0
389433 2010 CG_{54}		10 30.3 188°95	5°4/25.3 18			
9 28	2 43.31	− 2 24.0	2.417	3.277	10.5	21.9
10 8	2 37.15	− 3 20.7	2.356	3.277	8.0	21.7
10 18	2 29.50	− 4 13.0	2.321	3.275	6.0	21.6
10 28	2 20.98	− 4 55.7	2.314	3.273	5.5	21.5
11 7	2 12.39	− 5 24.5	2.337	3.270	6.9	21.6
11 17	2 4.47	− 5 36.5	2.387	3.266	9.3	21.8
11 27	1 57.91	− 5 30.8	2.463	3.261	11.7	21.9
12 7	1 53.16	− 5 8.1	2.560	3.256	13.9	22.1

183044 2002 QY_{63} 10 30.3 286°.07 3°.5/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.33	+ 7 28.3	1.414	2.295	15.2	20.5
10 8	2 39.65	+ 6 53.2	1.345	2.285	11.1	20.2
10 18	2 31.35	+ 6 14.1	1.298	2.275	6.6	19.9
10 28	2 21.38	+ 5 36.9	1.277	2.265	3.5	19.7
11 7	2 11.08	+ 5 8.3	1.282	2.255	6.3	19.9
11 17	2 1.82	+ 4 53.7	1.313	2.245	11.0	20.1
11 27	1 54.79	+ 4 57.0	1.366	2.235	15.4	20.4
12 7	1 50.71	+ 5 19.2	1.440	2.225	19.1	20.6

86057 1999 RV_{14} 10 30.3 34°.03 0°.1/30.3 18

9 28	2 41.03	+15 34.2	1.753	2.619	13.5	18.9
10 8	2 35.98	+15 6.6	1.696	2.628	9.8	18.7
10 18	2 28.99	+14 28.9	1.662	2.638	5.5	18.5
10 28	2 20.89	+13 44.9	1.655	2.648	1.0	18.2
11 7	2 12.74	+12 59.7	1.676	2.659	3.5	18.4
11 17	2 5.53	+12 18.8	1.724	2.670	7.7	18.7
11 27	2 0.12	+11 47.3	1.798	2.681	11.5	18.9
12 7	1 57.01	+11 28.4	1.894	2.693	14.7	19.2

278216 2007 EG_{47} 10 30.3 224°.33 0°.0/30.2 18

9 28	2 44.60	+16 6.9	1.814	2.671	13.5	21.6
10 8	2 38.69	+15 36.9	1.737	2.664	9.9	21.4
10 18	2 30.63	+14 55.5	1.683	2.657	5.7	21.1
10 28	2 21.23	+14 5.9	1.657	2.649	1.1	20.8
11 7	2 11.59	+13 13.3	1.659	2.641	3.6	20.9
11 17	2 2.81	+12 23.6	1.690	2.633	8.1	21.2
11 27	1 55.87	+11 42.8	1.746	2.624	12.1	21.4
12 7	1 51.38	+11 15.3	1.825	2.615	15.5	21.6

481930 2009 BZ_{98} 10 30.3 289°.57 0°.8/29.8 18

9 28	2 43.66	+13 4.8	1.704	2.572	13.7	21.5
10 8	2 38.19	+12 46.3	1.624	2.558	10.0	21.2
10 18	2 30.44	+12 19.6	1.568	2.544	5.7	21.0
10 28	2 21.23	+11 47.7	1.538	2.530	1.2	20.6
11 7	2 11.67	+11 15.5	1.535	2.516	4.1	20.8
11 17	2 2.92	+10 48.3	1.561	2.503	8.7	21.1
11 27	1 56.05	+10 31.0	1.611	2.489	12.9	21.3
12 7	1 51.74	+10 27.0	1.682	2.476	16.5	21.5

399551 2003 RN_{9} 10 30.3 34°.16 7°.6/ 5.8 16

9 28	2 44.33	+34 56.9	1.698	2.489	17.2	20.4
10 8	2 38.74	+35 29.7	1.646	2.510	14.2	20.3
10 18	2 30.69	+35 37.0	1.615	2.531	11.1	20.1
10 28	2 21.25	+35 16.8	1.606	2.553	8.5	20.0
11 7	2 11.75	+34 31.7	1.623	2.576	7.6	20.1
11 17	2 3.50	+33 27.8	1.665	2.599	8.9	20.2
11 27	1 57.54	+32 14.3	1.732	2.623	11.4	20.4
12 7	1 54.41	+31 0.7	1.823	2.647	14.1	20.6

101940 1999 RW_{23} 10 30.3 22°.24 2°.1/31.2 18

9 28	2 45.64	+16 29.5	0.892	1.786	20.7	17.9
10 8	2 40.65	+17 10.9	0.854	1.798	15.2	17.7
10 18	2 32.12	+17 37.4	0.834	1.811	9.1	17.4
10 28	2 21.54	+17 49.6	0.835	1.826	3.0	17.1
11 7	2 10.91	+17 51.2	0.858	1.843	5.0	17.3
11 17	2 2.14	+17 48.6	0.904	1.861	10.9	17.7
11 27	1 56.66	+17 49.1	0.970	1.881	16.1	18.1
12 7	1 55.04	+17 58.3	1.054	1.902	20.4	18.4

300932 Kyslyuk 10 30.3 322°.92 7°.8/23.8 18

9 28	2 38.79	− 1 55.6	1.560	2.448	13.7	19.2
10 8	2 34.68	− 3 33.1	1.496	2.431	10.6	19.0
10 18	2 28.43	− 5 7.3	1.456	2.415	8.3	18.8
10 28	2 20.84	− 6 28.1	1.441	2.399	8.0	18.8
11 7	2 12.99	− 7 26.8	1.451	2.385	10.2	18.9
11 17	2 6.00	− 7 57.5	1.485	2.370	13.5	19.0
11 27	2 0.83	− 7 58.3	1.540	2.356	16.7	19.2
12 7	1 58.11	− 7 31.0	1.612	2.343	19.5	19.4

510769 2013 AS_{32} 10 30.3 165°.55 3°.8/ 2.9 18

9 28	2 44.37	+27 54.0	2.368	3.171	12.5	21.6
10 8	2 38.18	+27 53.9	2.290	3.175	9.9	21.4
10 18	2 30.20	+27 37.8	2.237	3.179	6.9	21.3
10 28	2 21.16	+27 5.9	2.210	3.182	4.4	21.1
11 7	2 11.98	+26 20.7	2.213	3.185	4.1	21.1
11 17	2 3.56	+25 26.6	2.245	3.188	6.4	21.3
11 27	1 56.72	+24 29.4	2.305	3.189	9.2	21.4
12 7	1 51.99	+23 35.3	2.389	3.191	11.9	21.6

308272 2005 GT_{152} 10 30.3 150°.52 1°.3/29.1 18

9 28	2 41.71	+13 36.7	2.207	3.065	11.4	21.0
10 8	2 36.12	+12 30.2	2.142	3.072	8.2	20.8
10 18	2 28.95	+11 15.4	2.104	3.079	4.5	20.6
10 28	2 20.91	+ 9 57.1	2.094	3.086	1.3	20.3
11 7	2 12.84	+ 8 41.1	2.115	3.092	3.7	20.5
11 17	2 5.54	+ 7 33.1	2.165	3.098	7.3	20.8
11 27	1 59.72	+ 6 38.0	2.243	3.103	10.5	21.0
12 7	1 55.83	+ 5 58.4	2.344	3.108	13.2	21.2

226072 2002 JW_{102} 10 30.3 61°.09 4°.3/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 43.81	+ 1 39.0	2.020	2.889	11.8	19.6
10 8	2 37.54	+ 1 11.1	1.983	2.914	8.7	19.4
10 18	2 29.69	+ 0 46.4	1.971	2.939	5.6	19.3
10 28	2 21.04	+ 0 29.4	1.987	2.963	4.3	19.2
11 7	2 12.50	+ 0 23.5	2.031	2.988	6.0	19.4
11 17	2 4.90	+ 0 30.8	2.103	3.013	8.8	19.6
11 27	1 58.94	+ 0 52.0	2.200	3.037	11.6	19.8
12 7	1 55.01	+ 1 26.3	2.320	3.062	14.0	20.1

259574 2003 UT_{186} 10 30.4 24°.40 3°.6/28.7 18

9 28	2 43.60	+ 8 18.4	0.951	1.854	18.8	19.8
10 8	2 38.84	+ 7 49.0	0.913	1.864	13.5	19.5
10 18	2 30.95	+ 7 15.3	0.894	1.875	7.8	19.3
10 28	2 21.31	+ 6 44.7	0.897	1.887	3.7	19.1
11 7	2 11.70	+ 6 25.0	0.923	1.901	7.0	19.3
11 17	2 3.76	+ 6 21.9	0.971	1.916	12.3	19.7
11 27	1 58.73	+ 6 38.4	1.040	1.931	17.2	20.0
12 7	1 57.15	+ 7 13.9	1.126	1.948	21.1	20.3

267866 2003 WM_{103} 10 30.4 298°.68 5°.8/26.1 17

9 28	2 44.36	− 4 54.7	2.307	3.165	11.0	19.9
10 8	2 38.01	− 5 13.1	2.242	3.159	8.5	19.7
10 18	2 30.04	− 5 23.9	2.203	3.154	6.5	19.6
10 28	2 21.14	− 5 22.9	2.191	3.148	5.8	19.6
11 7	2 12.12	− 5 7.2	2.208	3.143	7.2	19.6
11 17	2 3.82	− 4 35.3	2.253	3.138	9.5	19.8
11 27	1 56.95	− 3 47.6	2.324	3.133	12.0	19.9
12 7	1 52.00	− 2 45.9	2.416	3.127	14.2	20.1

490582 2009 WD_{113} 10 30.4 316°.09 6°.4/26.0 17

9 28	2 43.69	− 4 19.4	1.984	2.850	12.2	21.1
10 8	2 37.86	− 4 44.4	1.910	2.832	9.5	20.9
10 18	2 30.11	− 5 1.7	1.860	2.815	7.2	20.7
10 28	2 21.17	− 5 5.9	1.837	2.797	6.4	20.6
11 7	2 11.98	− 4 53.0	1.841	2.780	8.0	20.7
11 17	2 3.50	− 4 21.0	1.872	2.764	10.8	20.8
11 27	1 56.63	− 3 30.1	1.928	2.748	13.7	21.0
12 7	1 51.93	− 2 22.2	2.004	2.732	16.3	21.2

103055 1999 XR_{134} 10 30.4 275°.77 4°.0/ 3.3 18

9 28	2 42.16	+30 0.3	1.850	2.662	15.2	19.1
10 8	2 37.05	+29 8.7	1.761	2.652	12.0	18.9
10 18	2 29.74	+27 51.5	1.695	2.642	8.4	18.6
10 28	2 21.10	+26 10.0	1.655	2.632	5.0	18.4
11 7	2 12.27	+24 10.1	1.643	2.621	4.4	18.4
11 17	2 4.39	+22 1.0	1.661	2.611	7.5	18.5
11 27	1 58.44	+19 54.0	1.706	2.601	11.3	18.7
12 7	1 55.01	+17 58.8	1.776	2.590	14.8	18.9

459378 2012 JY_{49} 10 30.4 211°.16 1°.1/31.5 18

9 28	2 39.60	+20 9.2	2.559	3.397	10.7	21.8
10 8	2 34.58	+19 37.0	2.479	3.395	7.9	21.6
10 18	2 28.10	+18 53.9	2.425	3.392	4.8	21.4
10 28	2 20.78	+18 2.1	2.399	3.389	1.6	21.2
11 7	2 13.33	+17 5.2	2.402	3.386	2.5	21.2
11 17	2 6.49	+16 7.7	2.436	3.382	5.8	21.4
11 27	2 0.93	+15 14.5	2.498	3.379	8.8	21.6
12 7	1 57.09	+14 29.6	2.585	3.375	11.4	21.8

1642 Hill 10 30.4 279°.17 5°.4/ 3.3 18

9 28	2 45.55	+29 7.2	1.947	2.755	14.7	15.3
10 8	2 39.58	+29 37.0	1.864	2.748	11.8	15.1
10 18	2 31.26	+29 48.8	1.803	2.741	8.7	14.9
10 28	2 21.42	+29 40.6	1.768	2.734	6.0	14.7
11 7	2 11.20	+29 13.7	1.759	2.727	5.6	14.7
11 17	2 1.81	+28 32.1	1.779	2.720	7.9	14.8
11 27	1 54.33	+27 42.9	1.825	2.713	11.1	15.0
12 7	1 49.48	+26 53.6	1.894	2.706	14.1	15.2

245285 2005 CZ_{8} 10 30.4 171°.16 1°.2/31.4 18

9 28	2 44.66	+19 9.0	2.258	3.096	11.9	21.1
10 8	2 38.36	+18 56.0	2.184	3.100	8.8	21.0
10 18	2 30.30	+18 32.3	2.135	3.103	5.3	20.7
10 28	2 21.21	+17 59.6	2.115	3.105	1.8	20.5
11 7	2 11.99	+17 21.1	2.124	3.107	2.8	20.6
11 17	2 3.52	+16 41.3	2.163	3.108	6.4	20.8
11 27	1 56.61	+16 5.0	2.230	3.109	9.8	21.0
12 7	1 51.76	+15 36.4	2.321	3.109	12.6	21.2

142922 2002 VC_{58} 10 30.4 256°.41 2°.6/28.3 18

9 28	2 41.80	+ 8 48.6	1.904	2.775	12.3	19.9
10 8	2 36.49	+ 8 2.1	1.835	2.771	8.9	19.6
10 18	2 29.32	+ 7 11.0	1.791	2.767	5.1	19.4
10 28	2 21.03	+ 6 20.1	1.775	2.763	2.6	19.2
11 7	2 12.58	+ 5 35.1	1.786	2.759	5.0	19.4
11 17	2 4.92	+ 5 1.0	1.826	2.754	8.7	19.6
11 27	1 58.91	+ 4 41.5	1.891	2.750	12.2	19.8
12 7	1 55.08	+ 4 38.1	1.978	2.745	15.2	20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
523213 2016 VC_{21}		10 30.4 272°.53	3°.0/ 1.6 18			
	h m	° ′			°	m
9 28	2 44.10	+23 1.9	1.969	2.803	13.6	21.6
10 8	2 38.36	+23 10.2	1.887	2.795	10.4	21.4
10 18	2 30.49	+23 4.3	1.828	2.787	6.8	21.1
10 28	2 21.28	+22 44.2	1.796	2.780	3.6	20.9
11 7	2 11.76	+22 12.7	1.792	2.772	3.8	20.9
11 17	2 3.02	+21 34.2	1.817	2.765	7.2	21.1
11 27	1 56.04	+20 54.7	1.868	2.757	10.8	21.3
12 7	1 51.46	+20 20.3	1.942	2.749	14.0	21.5
261863 2006 FL_{6}		10 30.4 240°.60	4°.0/26.4 18			
9 28	2 40.24	+ 1 17.6	2.654	3.519	9.5	20.5
10 8	2 34.95	+ 0 33.7	2.579	3.507	7.1	20.3
10 18	2 28.30	− 0 8.8	2.530	3.495	4.8	20.1
10 28	2 20.84	− 0 45.7	2.511	3.483	4.0	20.1
11 7	2 13.22	− 1 13.2	2.521	3.470	5.5	20.2
11 17	2 6.14	− 1 28.2	2.559	3.457	8.0	20.3
11 27	2 0.20	− 1 29.1	2.624	3.444	10.5	20.4
12 7	1 55.87	− 1 15.7	2.710	3.430	12.7	20.6
162459 2000 HO_{50}		10 30.4 39°.70	0°.7/29.9 18			
9 28	2 42.61	+17 30.0	0.898	1.794	20.4	18.2
10 8	2 38.08	+16 13.3	0.868	1.815	14.6	18.0
10 18	2 30.44	+14 37.1	0.857	1.837	8.2	17.8
10 28	2 21.22	+12 51.8	0.868	1.861	1.5	17.4
11 7	2 12.28	+11 11.2	0.902	1.885	5.4	17.8
11 17	2 5.22	+ 9 47.6	0.959	1.911	11.4	18.2
11 27	2 1.12	+ 8 49.4	1.037	1.937	16.5	18.6
12 7	2 0.38	+ 8 18.8	1.133	1.963	20.5	19.0
72261 2001 AC_{34}		10 30.4 337°.33	3°.1/28.9 18			
9 28	2 44.08	+ 8 21.0	1.083	1.979	17.6	18.8
10 8	2 39.38	+ 8 7.2	1.020	1.968	12.9	18.5
10 18	2 31.49	+ 7 49.2	0.977	1.957	7.5	18.1
10 28	2 21.51	+ 7 32.6	0.957	1.947	3.2	17.9
11 7	2 11.07	+ 7 23.9	0.960	1.939	6.5	18.0
11 17	2 1.89	+ 7 28.7	0.986	1.931	12.1	18.3
11 27	1 55.45	+ 7 50.8	1.034	1.925	17.3	18.6
12 7	1 52.54	+ 8 31.0	1.099	1.919	21.6	18.9
55051 2001 QT_{68}		10 30.4 27°.16	0°.9/31.0 18			
9 28	2 42.29	+17 45.3	1.623	2.486	14.6	17.6
10 8	2 37.12	+17 31.1	1.563	2.492	10.7	17.4
10 18	2 29.76	+17 4.5	1.526	2.499	6.3	17.2
10 28	2 21.12	+16 28.1	1.514	2.506	1.7	16.9
11 7	2 12.37	+15 46.9	1.530	2.514	3.5	17.1
11 17	2 4.64	+15 6.7	1.573	2.522	8.0	17.4
11 27	1 58.89	+14 33.6	1.641	2.531	12.0	17.6
12 7	1 55.67	+14 11.8	1.731	2.540	15.4	17.9
294462 2007 VO_{315}		10 30.4 69°.34	1°.9/29.0 18			
9 28	2 44.12	+10 1.3	1.733	2.604	13.4	20.4
10 8	2 38.18	+ 9 35.6	1.680	2.615	9.6	20.2
10 18	2 30.25	+ 9 5.2	1.650	2.627	5.4	20.0
10 28	2 21.21	+ 8 34.3	1.648	2.639	2.0	19.8
11 7	2 12.14	+ 8 7.7	1.673	2.650	4.5	20.0
11 17	2 4.07	+ 7 49.7	1.726	2.662	8.6	20.3
11 27	1 57.88	+ 7 43.6	1.805	2.674	12.2	20.6
12 7	1 54.07	+ 7 51.0	1.905	2.686	15.3	20.8
220505 2004 DL_{33}		10 30.4 150°.20	1°.8/31.6 18			
9 28	2 47.57	+19 52.0	1.756	2.600	14.5	20.5
10 8	2 40.86	+19 47.4	1.689	2.607	10.8	20.3
10 18	2 31.88	+19 29.1	1.646	2.613	6.6	20.1
10 28	2 21.54	+18 58.6	1.629	2.619	2.5	19.8
11 7	2 11.06	+18 19.9	1.641	2.624	3.5	19.9
11 17	2 1.61	+17 38.6	1.682	2.629	7.7	20.2
11 27	1 54.20	+17 1.0	1.749	2.633	11.7	20.4
12 7	1 49.44	+16 32.4	1.838	2.637	15.0	20.7
91543 1999 RJ_{207}		10 30.4 3°.10	2°.9/ 2.1 18			
9 28	2 40.78	+25 9.5	2.018	2.848	13.4	18.7
10 8	2 35.81	+24 47.3	1.943	2.848	10.3	18.5
10 18	2 28.96	+24 8.1	1.891	2.848	6.8	18.3
10 28	2 20.98	+23 13.3	1.865	2.848	3.6	18.1
11 7	2 12.85	+22 7.1	1.868	2.849	3.6	18.1
11 17	2 5.55	+20 55.7	1.899	2.849	6.8	18.3
11 27	1 59.93	+19 46.0	1.958	2.850	10.2	18.5
12 7	1 56.51	+18 44.4	2.040	2.851	13.3	18.7
408978 2002 QV_{114}		10 30.4 352°.43	6°.5/24.2 17			
9 28	2 36.87	− 0 20.6	1.810	2.695	12.2	20.6
10 8	2 32.97	− 1 57.7	1.755	2.691	9.3	20.4
10 18	2 27.32	− 3 32.2	1.725	2.687	7.0	20.2
10 28	2 20.66	− 4 55.7	1.721	2.683	6.7	20.2
11 7	2 13.88	− 6 0.6	1.744	2.680	8.6	20.3
11 17	2 7.87	− 6 42.2	1.792	2.678	11.5	20.5
11 27	2 3.43	− 6 58.2	1.863	2.677	14.3	20.7
12 7	2 1.03	− 6 49.9	1.952	2.676	16.8	20.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
127270 2002 JK_{57}		10 30.4 145°.33	0°.1/30.5 18			
	h m	° ′			°	m
9 28	2 40.85	+16 15.8	2.474	3.323	10.7	20.7
10 8	2 35.45	+15 47.3	2.404	3.328	7.7	20.6
10 18	2 28.59	+15 10.5	2.361	3.333	4.4	20.4
10 28	2 20.90	+14 28.1	2.346	3.339	0.9	20.1
11 7	2 13.13	+13 43.8	2.361	3.343	2.7	20.3
11 17	2 6.02	+13 1.8	2.406	3.348	6.1	20.5
11 27	2 0.23	+12 25.9	2.479	3.352	9.1	20.7
12 7	1 56.21	+11 59.4	2.576	3.356	11.7	20.9
224704 2006 BW_{88}		10 30.4 95°.53	0°.3/30.6 18			
9 28	2 41.53	+16 23.1	2.338	3.188	11.2	20.8
10 8	2 35.97	+16 3.1	2.276	3.200	8.1	20.6
10 18	2 28.89	+15 34.8	2.240	3.212	4.6	20.4
10 28	2 20.96	+15 0.8	2.232	3.224	1.0	20.1
11 7	2 12.98	+14 24.5	2.253	3.236	2.7	20.3
11 17	2 5.74	+13 49.9	2.304	3.248	6.2	20.6
11 27	1 59.91	+13 21.0	2.383	3.259	9.3	20.8
12 7	1 55.94	+13 0.8	2.485	3.270	12.0	21.0
439354 2012 XM_{95}		10 30.4 52°.13	4°.4/27.5 18			
9 28	2 43.65	+ 5 17.0	1.466	2.350	14.6	20.3
10 8	2 38.01	+ 4 25.7	1.424	2.364	10.6	20.1
10 18	2 30.20	+ 3 33.9	1.404	2.379	6.5	19.9
10 28	2 21.21	+ 2 48.7	1.411	2.394	4.4	19.8
11 7	2 12.28	+ 2 16.2	1.444	2.410	6.8	20.0
11 17	2 4.54	+ 2 1.0	1.502	2.425	10.6	20.3
11 27	1 58.89	+ 2 5.1	1.584	2.441	14.3	20.5
12 7	1 55.84	+ 2 27.8	1.686	2.458	17.3	20.8
174311 2002 TS_{72}		10 30.4 42°.03	2°.2/31.9 18			
9 28	2 42.76	+21 29.9	1.530	2.385	15.7	19.5
10 8	2 37.53	+21 10.8	1.476	2.399	11.7	19.3
10 18	2 30.00	+20 34.7	1.444	2.412	7.3	19.0
10 28	2 21.19	+19 44.2	1.437	2.426	2.9	18.8
11 7	2 12.34	+18 45.1	1.457	2.441	3.7	18.9
11 17	2 4.66	+17 44.7	1.504	2.456	8.0	19.2
11 27	1 59.12	+16 50.6	1.576	2.471	12.1	19.5
12 7	1 56.24	+16 8.6	1.670	2.487	15.5	19.7
48551 1993 TR_{28}		10 30.4 305°.19	2°.0/28.8 18			
9 28	2 41.62	+10 54.3	1.777	2.649	13.0	19.5
10 8	2 36.52	+10 11.0	1.707	2.644	9.4	19.3
10 18	2 29.42	+ 9 20.9	1.661	2.638	5.3	19.0
10 28	2 21.09	+ 8 28.7	1.642	2.633	2.0	18.8
11 7	2 12.58	+ 7 40.3	1.651	2.628	4.6	19.0
11 17	2 4.90	+ 7 1.4	1.688	2.623	8.8	19.2
11 27	1 58.97	+ 6 36.3	1.749	2.618	12.6	19.5
12 7	1 55.37	+ 6 27.6	1.832	2.613	15.8	19.7
277396 2005 UN_{152}		10 30.4 96°.66	1°.0/31.1 18			
9 28	2 43.70	+19 30.5	1.570	2.428	15.2	20.5
10 8	2 38.22	+18 50.8	1.506	2.433	11.2	20.3
10 18	2 30.43	+17 54.7	1.465	2.437	6.7	20.1
10 28	2 21.29	+16 46.2	1.449	2.441	1.9	19.8
11 7	2 12.03	+15 31.9	1.462	2.445	3.6	19.9
11 17	2 3.86	+14 19.8	1.501	2.450	8.3	20.2
11 27	1 57.80	+13 17.9	1.566	2.454	12.6	20.5
12 7	1 54.41	+12 31.4	1.652	2.458	16.2	20.7
137376 1999 TT_{133}		10 30.4 113°.84	0°.7/30.9 18			
9 28	2 48.62	+17 52.9	1.683	2.533	14.8	20.3
10 8	2 41.45	+17 26.5	1.631	2.554	10.8	20.1
10 18	2 32.11	+16 47.3	1.602	2.574	6.2	19.9
10 28	2 21.59	+15 58.6	1.601	2.593	1.5	19.6
11 7	2 11.14	+15 5.9	1.629	2.612	3.5	19.8
11 17	2 1.91	+14 15.6	1.685	2.630	7.9	20.1
11 27	1 54.83	+13 33.8	1.768	2.647	11.9	20.4
12 7	1 50.38	+13 4.7	1.873	2.664	15.1	20.6
326830 2003 UQ_{27}		10 30.4 336°.19	1°.8/29.3 17			
9 28	2 43.92	+ 8 32.0	1.909	2.778	12.5	19.7
10 8	2 38.13	+ 8 37.2	1.835	2.769	9.0	19.4
10 18	2 30.34	+ 8 40.4	1.785	2.761	5.2	19.2
10 28	2 21.30	+ 8 44.3	1.762	2.753	1.9	19.0
11 7	2 11.99	+ 8 51.7	1.768	2.746	4.2	19.1
11 17	2 3.45	+ 9 5.1	1.802	2.739	8.1	19.3
11 27	1 56.58	+ 9 27.0	1.863	2.733	11.8	19.6
12 7	1 52.00	+ 9 58.6	1.945	2.727	14.9	19.8
178020 2006 RL_{16}		10 30.4 81°.42	5°.3/ 3.2 18			
9 28	2 48.80	+28 53.1	1.404	2.231	18.4	20.1
10 8	2 42.12	+28 50.7	1.354	2.252	14.5	19.9
10 18	2 32.68	+28 22.6	1.324	2.273	10.1	19.7
10 28	2 21.72	+27 29.0	1.318	2.293	6.3	19.6
11 7	2 10.83	+26 15.5	1.338	2.314	5.7	19.6
11 17	2 1.49	+24 51.3	1.385	2.334	8.8	19.8
11 27	1 54.82	+23 27.5	1.457	2.354	12.7	20.1
12 7	1 51.33	+22 13.7	1.551	2.374	16.2	20.4

186431 2002 RG_{98} 10 30.4 345°.39 4°.3/27.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 37.41	+ 9 37.5	1.040	1.945	17.3	19.0
10 8	2 34.49	+ 8 17.3	0.981	1.934	12.5	18.7
10 18	2 28.66	+ 6 45.7	0.942	1.923	7.4	18.4
10 28	2 20.99	+ 5 13.5	0.926	1.915	4.3	18.2
11 7	2 13.00	+ 3 53.1	0.933	1.907	7.8	18.4
11 17	2 6.24	+ 2 55.1	0.962	1.901	13.2	18.7
11 27	2 2.01	+ 2 26.4	1.012	1.897	18.1	19.0
12 7	2 1.01	+ 2 27.8	1.078	1.894	22.3	19.2

198696 2005 CT_{23} 10 30.4 293°.00 5°.9/ 5.4 17

9 28	2 42.18	+34 53.9	2.391	3.162	13.4	20.0
10 8	2 36.81	+35 3.0	2.306	3.158	11.1	19.8
10 18	2 29.56	+34 52.6	2.243	3.155	8.7	19.6
10 28	2 21.14	+34 21.2	2.205	3.151	6.6	19.5
11 7	2 12.51	+33 30.6	2.194	3.147	5.9	19.5
11 17	2 4.63	+32 25.0	2.211	3.144	7.2	19.5
11 27	1 58.36	+31 10.8	2.256	3.140	9.4	19.7
12 7	1 54.27	+29 55.4	2.325	3.136	11.9	19.8

362468 2010 RM_{161} 10 30.4 25°.52 4°.8/26.1 18

9 28	2 38.53	+ 6 28.7	1.587	2.475	13.5	19.8
10 8	2 34.29	+ 4 42.3	1.539	2.481	9.7	19.5
10 18	2 28.11	+ 2 52.2	1.514	2.489	6.1	19.4
10 28	2 20.84	+ 1 7.9	1.517	2.496	4.9	19.3
11 7	2 13.56	− 0 21.3	1.546	2.505	7.3	19.5
11 17	2 7.25	− 1 28.5	1.602	2.514	10.9	19.7
11 27	2 2.73	− 2 10.1	1.681	2.523	14.3	19.9
12 7	2 0.50	− 2 26.0	1.779	2.533	17.2	20.2

65371 2002 PB_{46} 10 30.4 9°.53 6°.2/ 3.2 18

9 28	2 44.97	+27 54.8	1.446	2.280	17.6	18.7
10 8	2 39.66	+28 41.5	1.382	2.281	14.1	18.5
10 18	2 31.52	+29 7.0	1.337	2.284	10.2	18.3
10 28	2 21.55	+29 8.8	1.316	2.287	7.0	18.1
11 7	2 11.23	+28 48.1	1.320	2.291	6.5	18.1
11 17	2 2.08	+28 10.5	1.350	2.296	9.3	18.3
11 27	1 55.41	+27 24.6	1.403	2.302	13.0	18.5
12 7	1 51.93	+26 39.9	1.478	2.309	16.5	18.7

161337 2003 RB_{22} 10 30.4 150°.54 2°.7/ 1.7 18

9 28	2 44.65	+24 5.7	2.015	2.843	13.5	20.3
10 8	2 38.56	+23 47.0	1.944	2.849	10.3	20.1
10 18	2 30.51	+23 12.1	1.896	2.855	6.7	19.9
10 28	2 21.32	+22 22.6	1.876	2.861	3.3	19.7
11 7	2 12.02	+21 22.4	1.885	2.866	3.5	19.7
11 17	2 3.63	+20 17.5	1.923	2.870	6.9	19.9
11 27	1 57.02	+19 14.9	1.988	2.875	10.4	20.1
12 7	1 52.73	+18 20.4	2.077	2.879	13.4	20.4

212565 2006 SW_{83} 10 30.4 54°.73 0°.9/30.9 18

9 28	2 45.17	+16 57.4	1.652	2.512	14.5	20.1
10 8	2 39.09	+16 56.3	1.600	2.527	10.6	19.9
10 18	2 30.84	+16 44.2	1.571	2.544	6.2	19.7
10 28	2 21.39	+16 23.4	1.568	2.560	1.7	19.4
11 7	2 11.90	+15 58.0	1.593	2.577	3.4	19.6
11 17	2 3.53	+15 32.8	1.646	2.594	7.8	19.9
11 27	1 57.19	+15 13.1	1.724	2.611	11.7	20.2
12 7	1 53.42	+15 2.7	1.824	2.628	14.9	20.4

489089 2006 BN_{51} 10 30.4 258°.59 1°.6/28.9 17

9 28	2 40.66	+10 33.9	2.421	3.282	10.4	22.8
10 8	2 35.46	+ 9 59.4	2.337	3.268	7.5	22.6
10 18	2 28.71	+ 9 19.9	2.278	3.254	4.3	22.3
10 28	2 21.00	+ 8 38.7	2.248	3.239	1.6	22.1
11 7	2 13.08	+ 7 59.9	2.248	3.224	3.7	22.2
11 17	2 5.72	+ 7 27.3	2.278	3.209	7.0	22.4
11 27	1 59.64	+ 7 4.6	2.334	3.194	10.2	22.6
12 7	1 55.34	+ 6 54.0	2.413	3.178	12.9	22.8

197116 2003 UB_{209} 10 30.4 129°.75 2°.8/ 1.9 18

9 28	2 43.47	+24 0.0	2.564	3.382	11.3	20.8
10 8	2 37.42	+24 11.6	2.491	3.389	8.7	20.6
10 18	2 29.79	+24 11.5	2.442	3.395	5.8	20.5
10 28	2 21.20	+23 59.8	2.422	3.402	3.3	20.3
11 7	2 12.48	+23 38.6	2.431	3.409	3.3	20.3
11 17	2 4.42	+23 11.0	2.470	3.415	5.8	20.5
11 27	1 57.76	+22 41.4	2.538	3.421	8.6	20.7
12 7	1 52.98	+22 14.1	2.630	3.427	11.1	20.9

193682 2001 EH_{14} 10 30.4 178°.64 1°.2/31.5 18 R

9 28	2 43.80	+18 46.5	2.948	3.777	9.7	20.4
10 8	2 37.46	+18 53.0	2.869	3.779	7.2	20.2
10 18	2 29.74	+18 51.9	2.815	3.780	4.4	20.0
10 28	2 21.20	+18 44.0	2.791	3.780	1.6	19.8
11 7	2 12.50	+18 31.0	2.799	3.781	2.4	19.9
11 17	2 4.34	+18 15.6	2.837	3.780	5.2	20.1
11 27	1 57.36	+18 0.8	2.905	3.779	7.9	20.3
12 7	1 52.00	+17 49.6	2.998	3.778	10.3	20.4

95954 Bayzoltán 10 30.4 341°.22 10°.1/19.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 37.87	−11 35.9	1.842	2.708	12.9	18.9
10 8	2 33.72	−13 32.9	1.797	2.701	11.1	18.8
10 18	2 27.79	−15 17.0	1.777	2.695	10.2	18.8
10 28	2 20.82	−16 38.7	1.781	2.689	10.6	18.8
11 7	2 13.73	−17 31.4	1.810	2.683	12.2	18.9
11 17	2 7.43	−17 51.8	1.861	2.678	14.3	19.0
11 27	2 2.71	−17 40.7	1.931	2.674	16.4	19.1
12 7	2 0.09	−17 1.7	2.018	2.670	18.3	19.3

445332 2010 JD_{43} 10 30.4 147°.70 1°.0/31.5 18

9 28	2 43.28	+20 47.3	2.390	3.223	11.5	21.7
10 8	2 37.22	+20 0.6	2.322	3.235	8.5	21.6
10 18	2 29.61	+19 1.4	2.279	3.245	5.1	21.4
10 28	2 21.16	+17 52.6	2.264	3.255	1.7	21.2
11 7	2 12.69	+16 39.0	2.281	3.264	2.6	21.2
11 17	2 5.00	+15 26.1	2.328	3.273	6.1	21.5
11 27	1 58.78	+14 19.4	2.404	3.280	9.3	21.7
12 7	1 54.47	+13 23.3	2.505	3.288	12.0	21.9

515562 2014 HK_{24} 10 30.4 218°.73 1°.0/31.1 18

9 28	2 45.90	+17 29.7	2.002	2.849	12.9	21.9
10 8	2 39.56	+17 28.4	1.923	2.843	9.5	21.7
10 18	2 31.18	+17 17.0	1.867	2.837	5.7	21.5
10 28	2 21.50	+16 56.9	1.839	2.831	1.7	21.2
11 7	2 11.55	+16 31.3	1.841	2.824	3.2	21.3
11 17	2 2.37	+16 4.4	1.871	2.817	7.2	21.5
11 27	1 54.92	+15 41.1	1.929	2.809	11.0	21.8
12 7	1 49.81	+15 25.7	2.010	2.801	14.2	22.0

330912 2009 SQ_{92} 10 30.4 316°.15 0°.0/30.4 17

9 28	2 42.93	+14 22.5	2.146	3.002	11.8	20.9
10 8	2 37.28	+14 24.0	2.070	2.997	8.6	20.7
10 18	2 29.81	+14 18.9	2.018	2.991	4.9	20.4
10 28	2 21.24	+14 8.8	1.993	2.986	1.0	20.1
11 7	2 12.44	+13 56.7	1.998	2.981	3.0	20.3
11 17	2 4.33	+13 45.7	2.032	2.976	6.9	20.5
11 27	1 57.74	+13 39.6	2.093	2.971	10.4	20.7
12 7	1 53.21	+13 41.1	2.178	2.967	13.3	20.9

478431 2012 HX_{38} 10 30.4 133°.51 0°.0/30.2 16

9 28	2 46.55	+16 47.9	1.805	2.658	13.8	22.5
10 8	2 39.91	+16 2.3	1.747	2.672	10.0	22.3
10 18	2 31.26	+15 4.8	1.713	2.686	5.7	22.1
10 28	2 21.50	+13 59.5	1.707	2.699	1.1	21.8
11 7	2 11.74	+12 52.7	1.730	2.712	3.5	22.0
11 17	2 3.06	+11 50.9	1.782	2.724	7.8	22.3
11 27	1 56.31	+11 0.0	1.861	2.735	11.6	22.5
12 7	1 51.99	+10 23.8	1.962	2.745	14.8	22.8

155582 1999 YN_{15} 10 30.4 351°.80 0°.5/29.9 17

9 28	2 40.25	+14 34.3	1.995	2.859	12.2	20.2
10 8	2 35.38	+13 59.7	1.926	2.857	8.8	20.0
10 18	2 28.73	+13 16.3	1.880	2.856	5.0	19.8
10 28	2 21.03	+12 27.6	1.862	2.855	1.0	19.5
11 7	2 13.19	+11 38.6	1.872	2.854	3.4	19.7
11 17	2 6.11	+10 54.3	1.911	2.853	7.4	19.9
11 27	2 0.59	+10 19.6	1.976	2.853	10.9	20.1
12 7	1 57.16	+ 9 57.6	2.064	2.853	14.0	20.3

471517 2012 DX_{74} 10 30.4 159°.37 1°.4/29.3 17

9 28	2 46.86	+12 50.0	1.751	2.613	13.7	22.4
10 8	2 40.24	+12 1.9	1.689	2.620	9.9	22.2
10 18	2 31.51	+11 5.1	1.651	2.627	5.5	21.9
10 28	2 21.57	+10 4.3	1.641	2.633	1.6	21.7
11 7	2 11.56	+ 9 5.9	1.659	2.638	4.3	21.9
11 17	2 2.58	+ 8 16.0	1.707	2.642	8.7	22.2
11 27	1 55.55	+ 7 39.8	1.780	2.645	12.5	22.4
12 7	1 51.02	+ 7 19.9	1.874	2.648	15.7	22.6

46907 1998 RQ_{70} 10 30.4 275°.35 5°.8/25.4 18

9 28	2 41.04	+ 1 24.0	1.827	2.705	12.5	18.6
10 8	2 36.09	+ 0 1.8	1.758	2.692	9.3	18.4
10 18	2 29.20	− 1 20.1	1.715	2.680	6.6	18.2
10 28	2 21.14	− 2 34.0	1.698	2.667	5.9	18.1
11 7	2 12.86	− 3 32.5	1.708	2.654	7.9	18.2
11 17	2 5.35	− 4 10.3	1.745	2.642	11.1	18.4
11 27	1 59.49	− 4 24.6	1.805	2.629	14.3	18.6
12 7	1 55.84	− 4 15.8	1.885	2.616	17.1	18.8

10213 Koukolík 10 30.4 23°.93 7°.6/ 4.2 18

9 28	2 42.43	+29 52.3	0.983	1.840	22.3	16.8
10 8	2 38.40	+30 24.2	0.943	1.855	17.8	16.5
10 18	2 30.93	+30 23.3	0.921	1.872	13.0	16.3
10 28	2 21.47	+29 48.1	0.918	1.891	8.8	16.2
11 7	2 12.00	+28 44.4	0.937	1.911	7.8	16.2
11 17	2 4.36	+27 23.4	0.979	1.933	10.7	16.5
11 27	1 59.87	+25 59.6	1.042	1.957	14.9	16.8
12 7	1 59.07	+24 44.9	1.124	1.981	18.7	17.1

204554 2005 ES_{222} 10 30.4 303.°44 8.°6/24.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 43.88	− 7 1.5	1.670	2.540	13.9	19.5
10 8	2 38.24	− 8 1.8	1.611	2.530	11.1	19.3
10 18	2 30.46	− 8 51.7	1.575	2.520	9.1	19.2
10 28	2 21.39	− 9 23.2	1.564	2.511	8.8	19.2
11 7	2 12.13	− 9 30.4	1.579	2.501	10.5	19.2
11 17	2 3.79	− 9 10.8	1.618	2.492	13.2	19.4
11 27	1 57.33	− 8 24.9	1.679	2.483	16.1	19.6
12 7	1 53.35	− 7 16.4	1.758	2.474	18.7	19.7

226561 2003 WJ_{52} 10 30.4 68.°12 1.°4/31.8 18

9 28	2 39.84	+21 2.7	2.314	3.153	11.6	20.4
10 8	2 34.91	+20 29.7	2.240	3.155	8.6	20.2
10 18	2 28.40	+19 44.1	2.191	3.157	5.3	20.0
10 28	2 20.97	+18 48.5	2.170	3.159	2.0	19.8
11 7	2 13.45	+17 47.0	2.178	3.161	2.7	19.9
11 17	2 6.62	+16 44.6	2.216	3.163	6.1	20.1
11 27	2 1.21	+15 46.9	2.281	3.165	9.3	20.3
12 7	1 57.67	+14 58.4	2.370	3.167	12.1	20.5

130525 2000 QX_{191} 10 30.4 120.°29 2.°6/28.9 17

9 28	2 49.76	+ 8 53.5	1.483	2.353	15.3	19.7
10 8	2 42.53	+ 8 27.9	1.432	2.367	11.0	19.4
10 18	2 32.87	+ 7 58.0	1.403	2.379	6.3	19.2
10 28	2 21.84	+ 7 28.8	1.402	2.392	2.6	19.0
11 7	2 10.82	+ 7 5.7	1.428	2.404	5.4	19.2
11 17	2 1.08	+ 6 53.4	1.482	2.415	9.9	19.5
11 27	1 53.66	+ 6 55.1	1.559	2.426	13.9	19.8
12 7	1 49.11	+ 7 11.9	1.658	2.437	17.3	20.0

6105 Verrocchio 10 30.4 41.°13 4.°5/26.9 18

9 28	2 40.49	+ 8 7.2	1.350	2.241	15.2	17.3
10 8	2 35.87	+ 6 25.5	1.313	2.258	10.8	17.1
10 18	2 29.05	+ 4 39.5	1.298	2.275	6.5	16.9
10 28	2 21.09	+ 2 59.3	1.310	2.294	4.5	16.9
11 7	2 13.23	+ 1 34.9	1.347	2.313	7.3	17.1
11 17	2 6.59	+ 0 33.4	1.410	2.332	11.3	17.4
11 27	2 2.07	− 0 1.6	1.495	2.352	15.0	17.7
12 7	2 0.09	− 0 10.7	1.599	2.372	18.1	17.9

454077 2012 VP_{7} 10 30.4 290.°28 9.°7/ 7.1 17

9 28	2 45.13	+39 29.8	1.109	1.913	23.7	20.1
10 8	2 40.81	+39 2.7	1.031	1.902	20.1	19.9
10 18	2 32.60	+37 47.1	0.969	1.892	15.9	19.6
10 28	2 21.86	+35 37.1	0.926	1.882	11.7	19.3
11 7	2 10.72	+32 37.3	0.905	1.872	9.7	19.2
11 17	2 1.32	+29 4.4	0.910	1.862	11.7	19.3
11 27	1 55.36	+25 23.9	0.938	1.852	16.2	19.5
12 7	1 53.55	+22 0.0	0.987	1.843	20.9	19.7

28223 1998 YR_{27} 10 30.4 313.°12 7.°0/25.2 18

9 28	2 40.97	− 0 40.7	1.565	2.450	13.8	17.9
10 8	2 36.45	− 1 52.7	1.488	2.423	10.6	17.7
10 18	2 29.63	− 3 2.6	1.433	2.397	7.8	17.4
10 28	2 21.27	− 4 1.8	1.404	2.371	7.2	17.3
11 7	2 12.49	− 4 41.9	1.401	2.346	9.4	17.4
11 17	2 4.48	− 4 57.3	1.421	2.321	13.0	17.6
11 27	1 58.33	− 4 45.5	1.464	2.296	16.6	17.7
12 7	1 54.76	− 4 7.8	1.524	2.272	19.8	17.9

90256 2003 BQ_{72} 10 30.4 170.°53 2.°3/28.6 18

9 28	2 43.56	+11 4.7	1.781	2.650	13.2	19.6
10 8	2 37.87	+10 2.8	1.717	2.652	9.5	19.4
10 18	2 30.18	+ 8 53.2	1.677	2.654	5.4	19.2
10 28	2 21.34	+ 7 41.9	1.665	2.655	2.3	19.0
11 7	2 12.40	+ 6 35.6	1.682	2.656	4.9	19.2
11 17	2 4.37	+ 5 40.7	1.727	2.657	8.9	19.4
11 27	1 58.16	+ 5 2.0	1.797	2.658	12.7	19.6
12 7	1 54.28	+ 4 41.6	1.888	2.658	15.8	19.9

227009 2004 XF_{121} 10 30.4 288.°91 6.°1/ 5.6 17

9 28	2 42.27	+35 25.5	2.332	3.101	13.7	20.0
10 8	2 36.99	+35 32.1	2.243	3.094	11.4	19.8
10 18	2 29.74	+35 18.0	2.176	3.086	9.0	19.6
10 28	2 21.27	+34 41.9	2.134	3.079	6.9	19.5
11 7	2 12.57	+33 45.5	2.119	3.072	6.1	19.4
11 17	2 4.62	+32 33.0	2.132	3.065	7.4	19.5
11 27	1 58.34	+31 11.6	2.172	3.057	9.7	19.6
12 7	1 54.29	+29 49.0	2.237	3.050	12.2	19.8

26685 Khojandi 10 30.4 278.°21 0.°1/30.5 18

9 28	2 40.94	+16 2.3	2.243	3.097	11.4	19.1
10 8	2 35.83	+15 39.6	2.159	3.085	8.4	18.9
10 18	2 29.01	+15 7.9	2.099	3.072	4.8	18.7
10 28	2 21.13	+14 29.7	2.067	3.060	1.0	18.4
11 7	2 13.02	+13 48.7	2.065	3.047	2.9	18.5
11 17	2 5.53	+13 9.4	2.091	3.035	6.7	18.7
11 27	1 59.45	+12 36.4	2.145	3.023	10.2	18.9
12 7	1 55.32	+12 13.1	2.222	3.010	13.1	19.1

217504 2006 TK_{4} 10 30.4 326.°64 2.°9/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 42.10	+11 5.3	1.312	2.198	15.8	20.1
10 8	2 37.45	+ 9 56.5	1.249	2.192	11.4	19.8
10 18	2 30.21	+ 8 37.1	1.208	2.187	6.5	19.5
10 28	2 21.38	+ 7 15.0	1.191	2.182	3.0	19.3
11 7	2 12.32	+ 5 59.7	1.201	2.177	6.2	19.5
11 17	2 4.38	+ 5 0.2	1.236	2.172	11.1	19.7
11 27	1 58.71	+ 4 22.7	1.293	2.168	15.7	20.0
12 7	1 55.96	+ 4 9.3	1.370	2.164	19.5	20.2

178861 2001 KD_{57} 10 30.4 102.°57 5.°0/26.7 18

9 28	2 45.63	+ 4 17.8	1.611	2.487	14.0	20.1
10 8	2 39.25	+ 2 57.6	1.571	2.507	10.1	19.9
10 18	2 30.88	+ 1 37.8	1.556	2.526	6.5	19.8
10 28	2 21.47	+ 0 26.2	1.568	2.545	5.0	19.7
11 7	2 12.18	− 0 29.9	1.607	2.564	7.3	19.9
11 17	2 4.06	− 1 5.7	1.673	2.582	10.7	20.2
11 27	1 57.94	− 1 19.2	1.763	2.600	14.0	20.4
12 7	1 54.29	− 1 11.4	1.873	2.617	16.8	20.6

474730 2005 MA_{34} 10 30.4 70.°37 4.°4/ 2.5 17

9 28	2 49.42	+26 34.9	1.392	2.226	18.1	20.7
10 8	2 42.46	+26 31.8	1.349	2.254	13.9	20.5
10 18	2 32.85	+26 5.4	1.328	2.283	9.4	20.3
10 28	2 21.85	+25 16.9	1.331	2.311	5.3	20.2
11 7	2 11.04	+24 12.0	1.360	2.339	5.0	20.2
11 17	2 1.82	+22 59.6	1.416	2.366	8.6	20.5
11 27	1 55.24	+21 49.7	1.497	2.393	12.5	20.8
12 7	1 51.77	+20 50.2	1.600	2.420	15.9	21.1

367728 2010 UD_{54} 10 30.4 24.°27 2.°1/31.8 17

9 28	2 42.29	+22 4.4	1.115	1.988	19.0	20.3
10 8	2 37.93	+21 22.9	1.061	1.993	14.2	20.0
10 18	2 30.57	+20 16.8	1.026	1.998	8.7	19.8
10 28	2 21.45	+18 50.8	1.014	2.005	3.2	19.5
11 7	2 12.21	+17 14.6	1.027	2.012	4.4	19.6
11 17	2 4.46	+15 40.3	1.064	2.020	9.9	19.9
11 27	1 59.41	+14 19.7	1.124	2.028	15.0	20.2
12 7	1 57.68	+13 20.1	1.203	2.038	19.3	20.5

232984 2005 ET_{132} 10 30.4 83.°78 5.°4/ 3.8 18

9 28	2 47.40	+30 9.6	1.891	2.694	15.3	20.4
10 8	2 40.72	+30 26.8	1.834	2.714	12.2	20.2
10 18	2 31.82	+30 23.5	1.799	2.734	8.9	20.1
10 28	2 21.68	+29 59.2	1.789	2.754	6.1	19.9
11 7	2 11.50	+29 16.4	1.807	2.774	5.5	19.9
11 17	2 2.45	+28 20.8	1.852	2.793	7.6	20.1
11 27	1 55.47	+27 20.1	1.924	2.813	10.6	20.3
12 7	1 51.11	+26 22.0	2.020	2.832	13.4	20.6

25468 Ramakrishna 10 30.4 0.°80 6.°5/26.9 18 R

9 28	2 43.35	+ 2 12.1	1.190	2.084	16.5	17.1
10 8	2 38.43	+ 1 16.5	1.139	2.083	12.3	16.8
10 18	2 30.79	+ 0 23.4	1.109	2.082	8.2	16.6
10 28	2 21.52	− 0 18.3	1.103	2.082	6.5	16.5
11 7	2 12.08	− 0 40.5	1.121	2.082	9.0	16.6
11 17	2 3.93	− 0 38.5	1.162	2.084	13.2	16.9
11 27	1 58.23	− 0 11.2	1.224	2.086	17.3	17.1
12 7	1 55.59	+ 0 39.1	1.304	2.089	20.8	17.4

15819 Alisterling 10 30.4 80.°86 3.°2/28.3 18

9 28	2 45.30	+11 0.4	1.250	2.134	16.6	17.2
10 8	2 39.59	+ 9 42.3	1.205	2.147	11.9	17.0
10 18	2 31.29	+ 8 15.2	1.182	2.161	6.7	16.7
10 28	2 21.59	+ 6 48.1	1.184	2.174	3.2	16.6
11 7	2 11.95	+ 5 30.9	1.213	2.187	6.3	16.8
11 17	2 3.72	+ 4 32.0	1.266	2.200	11.1	17.1
11 27	1 57.95	+ 3 56.6	1.343	2.213	15.5	17.4
12 7	1 55.14	+ 3 45.5	1.438	2.226	19.0	17.7

485936 2012 HR_{9} 10 30.4 204.°28 3.°3/26.7 17

9 28	2 39.34	+ 3 30.0	2.812	3.676	9.0	22.2
10 8	2 34.28	+ 2 37.2	2.742	3.672	6.6	22.0
10 18	2 27.97	+ 1 44.2	2.700	3.668	4.3	21.9
10 28	2 20.95	+ 0 55.2	2.686	3.663	3.4	21.8
11 7	2 13.83	+ 0 14.1	2.703	3.657	4.9	21.9
11 17	2 7.23	− 0 16.0	2.749	3.652	7.3	22.0
11 27	2 1.71	− 0 32.9	2.821	3.646	9.7	22.2
12 7	1 57.68	− 0 35.9	2.916	3.639	11.8	22.3

178860 2001 KZ_{42} 10 30.4 69.°74 5.°4/27.2 17

9 28	2 46.97	+ 3 36.4	1.348	2.231	15.7	19.3
10 8	2 40.45	+ 2 36.2	1.316	2.254	11.4	19.2
10 18	2 31.63	+ 1 38.1	1.306	2.278	7.3	19.0
10 28	2 21.65	+ 0 50.1	1.322	2.302	5.4	19.0
11 7	2 11.89	+ 0 18.8	1.364	2.326	7.7	19.2
11 17	2 3.55	+ 0 8.1	1.431	2.349	11.5	19.4
11 27	1 57.54	+ 0 18.9	1.522	2.372	15.1	19.7
12 7	1 54.31	+ 0 49.5	1.631	2.396	18.1	20.0

448592 2010 TA_{95} 10 30.4 17°.23 1°.4/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 41.27	+12 6.2	1.785	2.656	13.1	21.4
10 8	2 36.26	+11 29.2	1.722	2.658	9.4	21.2
10 18	2 29.32	+10 44.9	1.684	2.661	5.3	21.0
10 28	2 21.24	+ 9 57.7	1.671	2.663	1.6	20.7
11 7	2 13.03	+ 9 13.1	1.687	2.666	4.2	20.9
11 17	2 5.71	+ 8 36.4	1.731	2.669	8.3	21.2
11 27	2 0.11	+ 8 12.0	1.799	2.673	12.0	21.4
12 7	1 56.79	+ 8 2.4	1.890	2.677	15.1	21.7

306674 2000 TR_{18} 10 30.4 36°.27 0°.6/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.87	+15 58.5	1.499	2.364	15.4	19.7
10 8	2 39.96	+15 58.9	1.438	2.368	11.3	19.5
10 18	2 31.57	+15 48.5	1.399	2.373	6.6	19.2
10 28	2 21.69	+15 29.4	1.386	2.378	1.6	18.9
11 7	2 11.63	+15 5.9	1.400	2.383	3.8	19.1
11 17	2 2.69	+14 43.3	1.440	2.389	8.6	19.4
11 27	1 55.96	+14 27.3	1.506	2.395	13.0	19.6
12 7	1 52.07	+14 21.9	1.592	2.401	16.6	19.9

222022 1998 SV_{50} 10 30.4 47°.38 0°.8/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.01	+17 34.1	2.042	2.894	12.4	20.5
10 8	2 36.62	+17 23.0	1.978	2.901	9.1	20.3
10 18	2 29.46	+17 2.0	1.938	2.909	5.4	20.1
10 28	2 21.26	+16 33.1	1.926	2.917	1.5	19.8
11 7	2 12.97	+16 0.1	1.942	2.926	2.9	20.0
11 17	2 5.49	+15 27.4	1.987	2.934	6.8	20.2
11 27	1 59.61	+14 59.6	2.059	2.943	10.2	20.5
12 7	1 55.84	+14 40.5	2.154	2.951	13.2	20.7

441896 2010 EF_{29} 10 30.4 154°.45 4°.9/25.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.20	+ 2 39.0	2.078	2.949	11.5	21.6
10 8	2 36.60	+ 1 10.8	2.024	2.956	8.5	21.5
10 18	2 29.37	− 0 17.2	1.996	2.962	5.8	21.3
10 28	2 21.24	− 1 37.8	1.997	2.968	5.0	21.3
11 7	2 13.07	− 2 44.6	2.027	2.973	6.9	21.4
11 17	2 5.70	− 3 33.0	2.084	2.978	9.7	21.6
11 27	1 59.85	− 4 0.6	2.166	2.982	12.5	21.8
12 7	1 55.98	− 4 7.5	2.269	2.986	14.9	22.0

37908 1998 FA_{78} 10 30.4 113°.89 3°.7/27.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.07	+ 5 58.4	1.845	2.716	12.7	19.2
10 8	2 38.07	+ 5 2.2	1.794	2.729	9.1	19.1
10 18	2 30.24	+ 4 4.6	1.768	2.742	5.6	18.9
10 28	2 21.41	+ 3 11.2	1.770	2.754	3.7	18.8
11 7	2 12.59	+ 2 28.0	1.801	2.766	5.8	18.9
11 17	2 4.72	+ 1 59.2	1.859	2.777	9.3	19.2
11 27	1 58.61	+ 1 47.5	1.942	2.788	12.5	19.4
12 7	1 54.72	+ 1 53.1	2.046	2.799	15.3	19.6

227756 2006 JL_{46} 10 30.4 233°.16 1°.3/29.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.20	+ 9 25.1	2.510	3.365	10.3	21.0
10 8	2 37.97	+ 9 26.3	2.432	3.360	7.4	20.8
10 18	2 30.17	+ 9 25.0	2.380	3.354	4.2	20.6
10 28	2 21.42	+ 9 23.3	2.358	3.349	1.4	20.4
11 7	2 12.49	+ 9 23.6	2.366	3.344	3.3	20.5
11 17	2 4.15	+ 9 28.1	2.404	3.338	6.6	20.7
11 27	1 57.12	+ 9 39.1	2.471	3.332	9.6	20.9
12 7	1 51.91	+ 9 57.9	2.561	3.326	12.2	21.1

520389 2014 HF_{207} 10 30.4 22°.56 0°.7/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.83	+16 24.2	1.732	2.591	14.0	20.9
10 8	2 38.99	+16 25.3	1.665	2.592	10.3	20.6
10 18	2 30.95	+16 16.5	1.621	2.594	6.0	20.4
10 28	2 21.59	+15 59.5	1.604	2.596	1.5	20.1
11 7	2 12.01	+15 38.0	1.615	2.598	3.4	20.2
11 17	2 3.38	+15 16.5	1.653	2.601	7.8	20.5
11 27	1 56.67	+15 0.0	1.718	2.603	11.8	20.8
12 7	1 52.48	+14 52.5	1.804	2.606	15.2	21.0

117875 2539 P–L 10 30.4 317°.73 1°.9/31.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.96	+20 1.7	1.970	2.818	13.0	19.4
10 8	2 36.88	+20 4.2	1.886	2.805	9.8	19.2
10 18	2 29.78	+19 54.8	1.825	2.792	6.1	18.9
10 28	2 21.37	+19 34.4	1.790	2.779	2.5	18.7
11 7	2 12.63	+19 5.8	1.784	2.767	3.3	18.7
11 17	2 4.59	+18 33.6	1.806	2.755	7.1	18.9
11 27	1 58.20	+18 3.1	1.854	2.744	10.9	19.1
12 7	1 54.09	+17 39.1	1.925	2.733	14.1	19.3

485897 2012 FK_{59} 10 30.4 241°.75 4°.9/25.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.39	+ 1 14.7	2.223	3.096	10.8	21.4
10 8	2 34.58	− 0 0.3	2.162	3.094	8.0	21.2
10 18	2 28.25	− 1 14.0	2.127	3.091	5.6	21.0
10 28	2 21.04	− 2 20.3	2.120	3.088	5.0	21.0
11 7	2 13.73	− 3 13.7	2.141	3.085	6.7	21.1
11 17	2 7.08	− 3 50.1	2.190	3.082	9.4	21.3
11 27	2 1.79	− 4 7.3	2.263	3.080	12.0	21.4
12 7	1 58.30	− 4 5.4	2.357	3.077	14.4	21.6

301901 1998 UP_{14} 10 30.4 267°.07 1°.2/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.57	+11 3.9	1.851	2.714	13.0	20.8
10 8	2 39.43	+10 58.7	1.778	2.710	9.4	20.5
10 18	2 31.19	+10 48.6	1.729	2.705	5.3	20.3
10 28	2 21.65	+10 36.1	1.708	2.700	1.4	20.0
11 7	2 11.86	+10 25.1	1.715	2.695	3.9	20.2
11 17	2 2.90	+10 19.0	1.751	2.690	8.2	20.4
11 27	1 55.72	+10 21.5	1.812	2.685	12.0	20.7
12 7	1 50.94	+10 34.6	1.896	2.680	15.2	20.9

55655 4101 P–L 10 30.4 264°.80 1°.5/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.35	+19 32.8	1.732	2.581	14.4	19.2
10 8	2 39.64	+19 16.6	1.642	2.563	10.8	18.9
10 18	2 31.50	+18 45.8	1.575	2.545	6.6	18.6
10 28	2 21.74	+18 1.8	1.535	2.526	2.2	18.3
11 7	2 11.52	+17 9.0	1.523	2.506	3.6	18.3
11 17	2 2.10	+16 13.7	1.538	2.486	8.2	18.6
11 27	1 54.62	+15 23.3	1.580	2.466	12.6	18.8
12 7	1 49.81	+14 44.1	1.643	2.446	16.4	19.0

445626 2011 SR_{218} 10 30.4 346°.86 7°.6/24.3 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.18	+ 0 12.5	1.405	2.299	14.5	20.4
10 8	2 34.43	− 1 34.2	1.351	2.292	11.0	20.1
10 18	2 28.44	− 3 18.9	1.320	2.285	8.2	20.0
10 28	2 21.11	− 4 50.4	1.314	2.279	7.8	19.9
11 7	2 13.60	− 5 59.0	1.332	2.274	10.2	20.1
11 17	2 7.07	− 6 38.4	1.374	2.270	13.6	20.3
11 27	2 2.51	− 6 46.4	1.437	2.267	17.0	20.5
12 7	2 0.49	− 6 25.1	1.517	2.264	19.9	20.7

181709 1993 FD_{32} 10 30.4 186°.21 0°.8/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.06	+12 29.7	2.177	3.036	11.5	20.6
10 8	2 37.32	+12 12.5	2.106	3.036	8.3	20.4
10 18	2 29.86	+11 49.5	2.060	3.035	4.7	20.2
10 28	2 21.38	+11 23.3	2.043	3.035	1.1	19.9
11 7	2 12.75	+10 57.6	2.054	3.034	3.3	20.1
11 17	2 4.84	+10 36.2	2.095	3.034	7.1	20.3
11 27	1 58.42	+10 22.6	2.163	3.033	10.4	20.5
12 7	1 54.02	+10 19.2	2.254	3.032	13.3	20.7

446642 2015 MT_{123} 10 30.4 147°.94 3°.6/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.56	+27 1.0	1.981	2.798	14.1	21.0
10 8	2 38.64	+26 43.1	1.908	2.804	11.0	20.8
10 18	2 30.69	+26 6.4	1.859	2.809	7.5	20.6
10 28	2 21.55	+25 11.9	1.835	2.814	4.4	20.5
11 7	2 12.28	+24 3.7	1.841	2.818	4.1	20.4
11 17	2 3.96	+22 48.0	1.875	2.823	7.0	20.6
11 27	1 57.47	+21 32.8	1.936	2.826	10.4	20.9
12 7	1 53.36	+20 24.8	2.021	2.830	13.5	21.1

170492 2003 UJ_{314} 10 30.4 0°.48 1°.2/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.27	+12 21.1	1.520	2.396	14.7	19.6
10 8	2 38.05	+12 0.4	1.457	2.395	10.6	19.4
10 18	2 30.50	+11 31.7	1.416	2.394	6.0	19.1
10 28	2 21.52	+10 59.2	1.401	2.394	1.5	18.8
11 7	2 12.35	+10 28.2	1.413	2.394	4.4	19.0
11 17	2 4.19	+10 4.1	1.452	2.395	9.1	19.3
11 27	1 58.08	+ 9 51.7	1.514	2.396	13.3	19.6
12 7	1 54.66	+ 9 53.7	1.597	2.398	16.9	19.8

247753 2003 PE 10 30.4 47°.64 5°.5/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.81	+25 19.1	1.016	1.875	21.6	19.3
10 8	2 44.17	+25 53.1	0.983	1.901	16.6	19.1
10 18	2 34.11	+26 0.4	0.968	1.928	11.2	18.9
10 28	2 22.21	+25 40.5	0.975	1.956	6.5	18.8
11 7	2 10.53	+24 58.7	1.005	1.984	6.2	18.9
11 17	2 0.90	+24 5.0	1.059	2.013	10.3	19.2
11 27	1 54.60	+23 11.1	1.136	2.042	14.7	19.6
12 7	1 52.10	+22 26.5	1.232	2.071	18.6	19.9

321138 2008 UY_{152} 10 30.4 357°.26 0°.4/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 33.65	+13 30.4	4.187	5.038	6.6	20.6
10 8	2 29.94	+13 1.0	4.111	5.038	4.7	20.5
10 18	2 25.45	+12 27.7	4.063	5.037	2.6	20.3
10 28	2 20.52	+11 52.5	4.045	5.037	0.6	20.2
11 7	2 15.53	+11 17.4	4.057	5.037	1.9	20.3
11 17	2 10.86	+10 44.7	4.100	5.037	4.0	20.4
11 27	2 6.87	+10 16.6	4.172	5.037	5.9	20.6
12 7	2 3.84	+ 9 54.5	4.270	5.037	7.6	20.7

110562 2001 TH_{108} 10 30.4 183°.52 2°.8/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.37	+24 33.8	2.419	3.236	11.9	20.3
10 8	2 38.26	+24 31.8	2.339	3.236	9.2	20.1
10 18	2 30.42	+24 16.5	2.283	3.236	6.1	19.9
10 28	2 21.53	+23 48.2	2.255	3.236	3.4	19.7
11 7	2 12.46	+23 9.4	2.256	3.235	3.4	19.7
11 17	2 4.10	+22 24.4	2.288	3.233	6.1	19.9
11 27	1 57.21	+21 38.3	2.347	3.231	9.1	20.1
12 7	1 52.34	+20 56.2	2.431	3.229	11.8	20.3

92345 2000 GF_{158} 10 30.4 56°.09 1°.1/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 52.12	+15 33.9	1.069	1.945	19.4	18.5
10 8	2 45.00	+16 1.0	1.028	1.963	14.2	18.2
10 18	2 34.60	+16 15.6	1.007	1.982	8.3	18.0
10 28	2 22.35	+16 18.8	1.009	2.001	2.2	17.7
11 7	2 10.14	+16 14.6	1.036	2.020	4.6	17.9
11 17	1 59.75	+16 8.8	1.088	2.039	10.3	18.3
11 27	1 52.51	+16 7.8	1.162	2.059	15.3	18.6
12 7	1 48.96	+16 16.4	1.256	2.079	19.3	19.0

264347 1999 XZ_{135} 10 30.4 288°.14 7°.7/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 55.33	− 5 7.1	1.518	2.376	15.7	20.0
10 8	2 47.25	− 5 13.1	1.429	2.347	12.4	19.8
10 18	2 36.08	− 5 6.9	1.363	2.318	9.2	19.5
10 28	2 22.73	− 4 41.4	1.324	2.289	7.7	19.4
11 7	2 8.63	− 3 51.8	1.311	2.259	9.7	19.4
11 17	1 55.38	− 2 37.2	1.327	2.229	13.5	19.5
11 27	1 44.45	− 0 59.7	1.366	2.199	17.6	19.7
12 7	1 36.78	+ 0 55.8	1.426	2.169	21.2	19.9

149853 2005 QX_{26} 10 30.4 64°.25 2°.6/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.29	+ 9 53.0	1.324	2.203	16.2	19.6
10 8	2 40.84	+ 9 16.2	1.287	2.226	11.5	19.4
10 18	2 31.95	+ 8 34.0	1.271	2.249	6.5	19.2
10 28	2 21.81	+ 7 52.5	1.281	2.272	2.6	19.0
11 7	2 11.83	+ 7 18.2	1.318	2.295	5.5	19.2
11 17	2 3.29	+ 6 56.3	1.381	2.318	10.1	19.6
11 27	1 57.16	+ 6 50.5	1.467	2.341	14.2	19.9
12 7	1 53.91	+ 7 1.5	1.573	2.364	17.5	20.2

387637 2002 PJ_{183} 10 30.4 35°.53 4°.0/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.24	+ 6 49.9	1.290	2.179	15.8	19.8
10 8	2 37.98	+ 6 5.2	1.254	2.198	11.3	19.6
10 18	2 30.36	+ 5 18.8	1.241	2.218	6.7	19.4
10 28	2 21.51	+ 4 37.7	1.252	2.238	4.0	19.3
11 7	2 12.77	+ 4 8.5	1.288	2.260	6.5	19.5
11 17	2 5.36	+ 3 55.9	1.350	2.282	10.8	19.8
11 27	2 0.24	+ 4 1.9	1.434	2.305	14.7	20.1
12 7	1 57.86	+ 4 26.2	1.537	2.328	17.9	20.4

107839 2001 FL_{72} 10 30.4 132°.60 3°.2/28.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.54	+ 7 42.4	1.805	2.672	13.1	20.8
10 8	2 39.90	+ 6 46.5	1.753	2.687	9.4	20.6
10 18	2 31.33	+ 5 47.4	1.727	2.701	5.6	20.4
10 28	2 21.71	+ 4 50.8	1.728	2.714	3.2	20.3
11 7	2 12.11	+ 4 2.7	1.758	2.726	5.5	20.4
11 17	2 3.54	+ 3 28.0	1.816	2.738	9.2	20.7
11 27	1 56.84	+ 3 9.9	1.899	2.749	12.6	20.9
12 7	1 52.48	+ 3 9.1	2.004	2.760	15.5	21.2

156642 2002 JH_{31} 10 30.4 93°.50 0°.5/31.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.05	+19 23.3	2.425	3.266	11.1	19.8
10 8	2 35.61	+18 28.5	2.368	3.287	8.1	19.6
10 18	2 28.76	+17 22.9	2.338	3.307	4.7	19.4
10 28	2 21.20	+16 10.0	2.336	3.327	1.2	19.2
11 7	2 13.68	+14 54.7	2.364	3.348	2.6	19.4
11 17	2 6.92	+13 42.4	2.424	3.367	5.9	19.6
11 27	2 1.55	+12 38.1	2.511	3.387	8.9	19.9
12 7	1 57.96	+11 45.4	2.623	3.406	11.5	20.1

442705 2012 UD_{125} 10 30.4 14°.96 3°.4/ 1.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.19	+23 26.1	1.212	2.078	18.3	20.5
10 8	2 37.08	+23 16.0	1.157	2.083	13.9	20.2
10 18	2 30.15	+22 43.3	1.121	2.088	9.0	20.0
10 28	2 21.52	+21 49.9	1.108	2.095	4.3	19.7
11 7	2 12.73	+20 42.5	1.120	2.103	4.6	19.8
11 17	2 5.27	+19 30.5	1.156	2.113	9.2	20.1
11 27	2 0.35	+18 24.4	1.216	2.123	13.9	20.4
12 7	1 58.57	+17 32.0	1.295	2.134	17.8	20.6

5237 Yoshikawa 10 30.4 219°.45 0°.0/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.22	+14 52.6	1.568	2.429	15.1	17.0
10 8	2 41.75	+14 42.0	1.495	2.424	11.1	16.8
10 18	2 32.71	+14 21.2	1.444	2.419	6.4	16.5
10 28	2 22.05	+13 52.8	1.420	2.413	1.3	16.2
11 7	2 11.05	+13 21.3	1.424	2.407	4.0	16.3
11 17	2 1.06	+12 52.4	1.455	2.400	8.9	16.6
11 27	1 53.26	+12 32.0	1.512	2.393	13.4	16.9
12 7	1 48.34	+12 24.0	1.589	2.386	17.1	17.1

244763 2003 SD_{102} 10 30.4 350°.67 2°.2/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.99	+23 10.9	1.511	2.364	16.0	19.9
10 8	2 36.56	+22 28.4	1.440	2.361	12.1	19.7
10 18	2 29.73	+21 24.7	1.391	2.358	7.6	19.4
10 28	2 21.44	+20 2.9	1.367	2.356	3.1	19.2
11 7	2 12.95	+18 30.1	1.370	2.354	3.7	19.2
11 17	2 5.52	+16 55.7	1.400	2.353	8.3	19.5
11 27	2 0.20	+15 29.6	1.455	2.352	12.7	19.7
12 7	1 57.59	+14 19.5	1.532	2.352	16.5	20.0

21859 1999 TF_{172} 10 30.4 35°.66 2°.8/28.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 42.79	+10 18.8	1.232	2.121	16.4	18.0
10 8	2 37.77	+ 9 29.6	1.195	2.139	11.7	17.8
10 18	2 30.30	+ 8 34.0	1.180	2.159	6.6	17.5
10 28	2 21.52	+ 7 39.3	1.189	2.179	2.8	17.4
11 7	2 12.85	+ 6 53.2	1.223	2.200	5.8	17.6
11 17	2 5.56	+ 6 21.9	1.282	2.222	10.5	17.9
11 27	2 0.64	+ 6 9.3	1.365	2.245	14.6	18.3
12 7	1 58.53	+ 6 16.1	1.466	2.268	18.1	18.5

293847 2007 RD_{228} 10 30.4 281°.41 1°.0/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.91	+12 36.0	1.859	2.723	13.0	20.9
10 8	2 38.38	+12 17.0	1.774	2.706	9.4	20.6
10 18	2 30.71	+11 50.6	1.713	2.689	5.4	20.4
10 28	2 21.65	+11 20.0	1.679	2.672	1.3	20.0
11 7	2 12.23	+10 49.4	1.674	2.654	3.9	20.2
11 17	2 3.52	+10 23.6	1.696	2.637	8.3	20.4
11 27	1 56.52	+10 7.3	1.745	2.619	12.3	20.6
12 7	1 51.90	+10 3.6	1.815	2.602	15.7	20.8

285836 2001 ET_{18} 10 30.4 209°.69 3°.7/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.81	+25 58.3	2.220	3.032	13.0	21.3
10 8	2 40.28	+26 12.1	2.135	3.026	10.2	21.1
10 18	2 31.71	+26 11.1	2.073	3.020	7.0	20.9
10 28	2 21.84	+25 54.7	2.038	3.014	4.3	20.7
11 7	2 11.67	+25 24.6	2.032	3.007	4.1	20.7
11 17	2 2.23	+24 44.8	2.056	2.999	6.8	20.9
11 27	1 54.46	+24 1.2	2.107	2.991	10.0	21.0
12 7	1 48.98	+23 19.9	2.182	2.983	12.9	21.2

280281 2003 FF_{1} 10 30.4 289°.41 4°.6/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.70	+ 5 37.3	1.518	2.400	14.3	20.9
10 8	2 38.56	+ 4 39.4	1.440	2.379	10.6	20.6
10 18	2 30.96	+ 3 37.5	1.384	2.358	6.6	20.4
10 28	2 21.72	+ 2 38.9	1.354	2.337	4.6	20.2
11 7	2 12.04	+ 1 51.4	1.351	2.316	7.2	20.3
11 17	2 3.21	+ 1 21.5	1.373	2.295	11.5	20.5
11 27	1 56.38	+ 1 13.5	1.418	2.275	15.7	20.7
12 7	1 52.29	+ 1 28.3	1.483	2.254	19.3	20.9

401689 2013 HG_{15} 10 30.4 222°.82 0°.0/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.80	+17 30.6	2.196	3.047	11.7	20.4
10 8	2 35.73	+16 31.1	2.118	3.043	8.5	20.2
10 18	2 29.00	+15 19.6	2.065	3.038	4.9	20.0
10 28	2 21.29	+14 0.1	2.040	3.033	1.0	19.7
11 7	2 13.45	+12 38.2	2.046	3.028	3.1	19.9
11 17	2 6.31	+11 20.2	2.081	3.022	6.9	20.1
11 27	2 0.63	+10 12.1	2.143	3.017	10.4	20.3
12 7	1 56.90	+ 9 18.0	2.229	3.011	13.3	20.5

431792 2008 PK_{22} 10 30.4 135°.96 2°.8/28.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.88	+10 0.3	1.800	2.669	13.1	21.0
10 8	2 38.05	+ 8 43.4	1.744	2.679	9.3	20.8
10 18	2 30.33	+ 7 20.2	1.712	2.688	5.4	20.6
10 28	2 21.55	+ 5 57.2	1.709	2.697	2.8	20.4
11 7	2 12.75	+ 4 41.8	1.735	2.706	5.3	20.6
11 17	2 4.91	+ 3 40.4	1.789	2.714	9.1	20.8
11 27	1 58.87	+ 2 57.4	1.868	2.721	12.6	21.1
12 7	1 55.10	+ 2 34.4	1.968	2.728	15.6	21.3

479020 2012 YH_{8} 10 30.4 236°.72 2°.4/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.41	+27 14.8	2.215	3.025	13.1	20.8
10 8	2 38.44	+26 0.0	2.117	3.012	10.1	20.6
10 18	2 30.59	+24 23.1	2.044	2.998	6.6	20.3
10 28	2 21.62	+22 26.8	2.000	2.984	3.2	20.1
11 7	2 12.49	+20 17.2	1.987	2.969	3.2	20.1
11 17	2 4.16	+18 3.1	2.006	2.953	6.7	20.3
11 27	1 57.48	+15 54.2	2.055	2.937	10.3	20.5
12 7	1 52.99	+13 58.5	2.130	2.921	13.5	20.7

186769 2004 DT_{15} 10 30.4 119°.01 4°.5/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.27	+25 26.6	1.646	2.472	16.2	19.9
10 8	2 43.19	+25 54.3	1.582	2.482	12.6	19.7
10 18	2 33.49	+26 3.8	1.540	2.492	8.6	19.5
10 28	2 22.21	+25 54.0	1.524	2.502	5.2	19.3
11 7	2 10.72	+25 26.9	1.535	2.511	5.0	19.4
11 17	2 0.41	+24 48.2	1.574	2.520	8.3	19.6
11 27	1 52.43	+24 5.7	1.639	2.529	12.0	19.8
12 7	1 47.43	+23 26.9	1.726	2.537	15.4	20.1

189336 2007 TF_{426} 10 30.5 296°.05 2°.0/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.09	+11 5.9	1.721	2.594	13.4	20.3
10 8	2 37.09	+10 21.7	1.646	2.583	9.7	20.1
10 18	2 29.97	+ 9 29.8	1.595	2.572	5.5	19.8
10 28	2 21.53	+ 8 35.3	1.570	2.561	2.1	19.6
11 7	2 12.82	+ 7 44.2	1.574	2.551	4.7	19.7
11 17	2 4.92	+ 7 2.6	1.604	2.540	9.0	20.0
11 27	1 58.81	+ 6 35.4	1.659	2.530	13.0	20.2
12 7	1 55.12	+ 6 25.2	1.735	2.519	16.4	20.4

328752 2009 UU_{60} 10 30.5 247.°99 3.°1/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 39.52	+ 6 49.5	2.272	3.142	10.7	20.6
10 8	2 34.72	+ 5 46.5	2.204	3.139	7.7	20.4
10 18	2 28.40	+ 4 40.6	2.161	3.135	4.7	20.3
10 28	2 21.20	+ 3 36.7	2.147	3.131	3.1	20.2
11 7	2 13.88	+ 2 40.3	2.163	3.127	5.0	20.3
11 17	2 7.21	+ 1 55.8	2.206	3.123	8.1	20.5
11 27	2 1.85	+ 1 26.6	2.276	3.119	11.1	20.6
12 7	1 58.29	+ 1 13.8	2.367	3.114	13.6	20.8

72919 2001 SJ_{45} 10 30.5 307.°19 2.°5/28.6 18

9 28	2 42.45	+ 8 34.9	1.845	2.718	12.6	19.6
10 8	2 37.17	+ 8 0.6	1.776	2.712	9.1	19.3
10 18	2 29.95	+ 7 22.2	1.730	2.706	5.3	19.1
10 28	2 21.53	+ 6 44.3	1.711	2.700	2.6	18.9
11 7	2 12.90	+ 6 12.0	1.721	2.695	4.9	19.0
11 17	2 5.08	+ 5 49.9	1.758	2.689	8.8	19.3
11 27	1 58.94	+ 5 41.4	1.820	2.684	12.4	19.5
12 7	1 55.05	+ 5 47.9	1.904	2.679	15.5	19.7

14815 Rutberg 10 30.5 38.°65 3.°6/28.5 18 A

9 28	2 43.78	+10 57.5	0.882	1.786	19.8	16.3
10 8	2 39.01	+ 9 44.1	0.856	1.807	14.1	16.0
10 18	2 31.15	+ 8 22.3	0.849	1.830	7.9	15.8
10 28	2 21.72	+ 7 3.2	0.863	1.854	3.6	15.7
11 7	2 12.59	+ 5 58.2	0.901	1.879	7.1	16.0
11 17	2 5.33	+ 5 15.8	0.961	1.904	12.5	16.4
11 27	2 1.02	+ 4 59.9	1.041	1.931	17.3	16.7
12 7	2 0.07	+ 5 9.4	1.138	1.958	21.1	17.1

304314 2006 ST_{164} 10 30.5 145.°68 1.°8/31.9 18

9 28	2 43.25	+20 52.5	1.933	2.776	13.4	20.8
10 8	2 37.75	+20 35.6	1.861	2.777	10.0	20.6
10 18	2 30.27	+20 4.8	1.812	2.778	6.2	20.4
10 28	2 21.59	+19 22.1	1.790	2.779	2.5	20.2
11 7	2 12.75	+18 31.5	1.797	2.780	3.2	20.2
11 17	2 4.75	+17 38.8	1.832	2.781	7.1	20.5
11 27	1 58.49	+16 50.1	1.894	2.782	10.8	20.7
12 7	1 54.54	+16 10.5	1.979	2.782	13.9	20.9

167384 2003 WC_{75} 10 30.5 73.°34 1.°0/29.9 18

9 28	2 49.05	+11 21.8	1.677	2.539	14.2	19.6
10 8	2 41.85	+11 25.4	1.630	2.561	10.2	19.4
10 18	2 32.50	+11 23.7	1.607	2.583	5.7	19.1
10 28	2 22.02	+11 19.3	1.612	2.605	1.3	18.9
11 7	2 11.58	+11 15.5	1.645	2.626	3.9	19.1
11 17	2 2.32	+11 15.8	1.707	2.648	8.2	19.4
11 27	1 55.15	+11 23.4	1.795	2.669	12.0	19.7
12 7	1 50.57	+11 40.3	1.904	2.691	15.1	20.0

421766 2014 PE_{69} 10 30.5 38.°89 2.°7/28.4 18

9 28	2 40.77	+ 8 55.5	1.782	2.659	12.8	20.3
10 8	2 35.83	+ 8 7.3	1.733	2.672	9.1	20.1
10 18	2 29.08	+ 7 15.2	1.708	2.685	5.3	19.9
10 28	2 21.35	+ 6 24.6	1.711	2.699	2.7	19.8
11 7	2 13.60	+ 5 41.0	1.740	2.713	5.0	20.0
11 17	2 6.78	+ 5 9.2	1.798	2.728	8.6	20.2
11 27	2 1.66	+ 4 52.5	1.879	2.743	12.1	20.5
12 7	1 58.70	+ 4 51.9	1.983	2.759	14.9	20.7

333454 2004 BW_{44} 10 30.5 192.°39 10.°2/ 9.6 17

9 28	2 53.57	+46 35.7	2.188	2.872	16.8	20.9
10 8	2 45.80	+47 12.1	2.101	2.870	14.9	20.7
10 18	2 35.13	+47 20.7	2.033	2.868	12.9	20.6
10 28	2 22.60	+46 56.4	1.986	2.864	11.2	20.5
11 7	2 9.71	+45 58.0	1.964	2.860	10.2	20.4
11 17	1 58.02	+44 29.7	1.968	2.855	10.5	20.4
11 27	1 48.83	+42 40.3	1.997	2.849	12.0	20.5
12 7	1 42.87	+40 41.6	2.051	2.843	13.9	20.6

515798 2015 LG_{42} 10 30.5 78.°98 6.°2/ 4.6 18

9 28	2 45.77	+32 16.4	1.749	2.549	16.4	20.9
10 8	2 39.93	+32 25.9	1.681	2.556	13.3	20.7
10 18	2 31.64	+32 11.5	1.633	2.564	10.0	20.6
10 28	2 21.88	+31 32.0	1.610	2.571	7.1	20.4
11 7	2 11.96	+30 30.4	1.614	2.579	6.3	20.4
11 17	2 3.16	+29 13.3	1.644	2.586	8.3	20.5
11 27	1 56.54	+27 50.1	1.700	2.594	11.4	20.7
12 7	1 52.73	+26 30.3	1.780	2.601	14.5	20.9

5484 Inoda 10 30.5 251.°79 1.°7/29.5 18

9 28	2 48.73	+ 9 37.0	1.742	2.605	13.7	17.1
10 8	2 41.99	+ 9 33.9	1.661	2.593	10.0	16.8
10 18	2 32.86	+ 9 27.0	1.604	2.579	5.8	16.5
10 28	2 22.16	+ 9 19.1	1.574	2.566	1.9	16.3
11 7	2 11.04	+ 9 13.9	1.573	2.552	4.5	16.4
11 17	2 0.76	+ 9 15.2	1.601	2.537	9.0	16.6
11 27	1 52.40	+ 9 26.2	1.654	2.523	13.1	16.9
12 7	1 46.70	+ 9 48.9	1.728	2.508	16.6	17.1

319578 2006 SW_{96} 10 30.5 120.°79 0.°8/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.02	+14 35.4	1.605	2.468	14.7	21.3
10 8	2 40.54	+13 52.8	1.550	2.481	10.6	21.1
10 18	2 31.84	+12 59.6	1.519	2.494	6.0	20.9
10 28	2 21.91	+12 0.6	1.514	2.507	1.2	20.6
11 7	2 11.96	+11 2.3	1.538	2.519	4.1	20.8
11 17	2 3.17	+10 11.4	1.590	2.531	8.7	21.1
11 27	1 56.50	+ 9 33.4	1.667	2.542	12.7	21.4
12 7	1 52.45	+ 9 11.5	1.766	2.553	16.0	21.6

342019 2008 RG_{84} 10 30.5 9.°65 2.°5/ 1.0 16

9 28	2 43.05	+20 56.0	1.270	2.137	17.5	20.9
10 8	2 38.40	+20 52.7	1.210	2.138	13.2	20.6
10 18	2 30.95	+20 30.9	1.170	2.140	8.2	20.4
10 28	2 21.76	+19 52.2	1.154	2.143	3.4	20.1
11 7	2 12.34	+19 2.3	1.163	2.147	4.2	20.2
11 17	2 4.16	+18 9.0	1.197	2.152	9.2	20.5
11 27	1 58.47	+17 21.3	1.254	2.157	13.9	20.8
12 7	1 55.93	+16 46.1	1.332	2.163	17.9	21.0

155530 1999 TS_{121} 10 30.5 283.°68 0.°6/29.9 18

9 28	2 40.14	+15 9.0	2.127	2.986	11.7	20.1
10 8	2 35.33	+14 20.4	2.051	2.981	8.5	19.9
10 18	2 28.83	+13 22.2	2.001	2.976	4.8	19.7
10 28	2 21.33	+12 18.2	1.978	2.971	1.0	19.4
11 7	2 13.67	+11 13.6	1.985	2.966	3.3	19.6
11 17	2 6.71	+10 14.1	2.021	2.961	7.2	19.8
11 27	2 1.21	+ 9 24.8	2.083	2.956	10.6	20.0
12 7	1 57.67	+ 8 49.2	2.168	2.951	13.6	20.2

188598 2005 OF_{15} 10 30.5 91.°56 0.°8/30.9 16

9 28	2 50.18	+17 11.4	1.568	2.421	15.5	21.0
10 8	2 42.80	+17 4.0	1.522	2.446	11.3	20.9
10 18	2 33.10	+16 44.6	1.498	2.470	6.6	20.6
10 28	2 22.16	+16 15.6	1.502	2.494	1.7	20.4
11 7	2 11.31	+15 41.9	1.533	2.517	3.6	20.6
11 17	2 1.79	+15 9.2	1.593	2.539	8.2	20.9
11 27	1 54.56	+14 43.1	1.678	2.561	12.2	21.2
12 7	1 50.13	+14 27.7	1.786	2.583	15.5	21.5

450343 2004 TV_{225} 10 30.5 54.°65 0.°3/30.2 18

9 28	2 41.90	+14 40.5	2.096	2.954	11.9	21.4
10 8	2 36.58	+14 18.4	2.028	2.957	8.6	21.2
10 18	2 29.54	+13 48.4	1.985	2.960	4.9	21.0
10 28	2 21.47	+13 13.2	1.970	2.962	0.9	20.7
11 7	2 13.28	+12 37.1	1.983	2.965	3.1	20.9
11 17	2 5.84	+12 4.3	2.025	2.968	7.0	21.1
11 27	1 59.93	+11 39.0	2.094	2.971	10.4	21.3
12 7	1 56.06	+11 24.3	2.186	2.974	13.3	21.5

215665 2003 UJ_{228} 10 30.5 32.°09 2.°5/29.5 18

9 28	2 48.49	+ 8 31.2	1.054	1.944	18.4	19.1
10 8	2 42.43	+ 8 35.9	1.010	1.955	13.3	18.9
10 18	2 33.23	+ 8 37.3	0.987	1.966	7.6	18.6
10 28	2 22.22	+ 8 39.8	0.987	1.978	2.7	18.3
11 7	2 11.17	+ 8 48.1	1.011	1.991	5.9	18.6
11 17	2 1.76	+ 9 5.9	1.059	2.005	11.3	18.9
11 27	1 55.28	+ 9 36.1	1.129	2.020	16.2	19.3
12 7	1 52.30	+10 19.3	1.218	2.035	20.1	19.6

288062 2003 UU_{325} 10 30.5 286.°67 1.°4/31.6 18

9 28	2 42.10	+21 15.2	1.698	2.549	14.6	20.4
10 8	2 37.20	+20 27.4	1.620	2.542	10.9	20.2
10 18	2 30.08	+19 21.4	1.565	2.535	6.6	19.9
10 28	2 21.60	+18 0.6	1.537	2.527	2.2	19.6
11 7	2 12.90	+16 31.6	1.536	2.520	3.4	19.7
11 17	2 5.11	+15 2.8	1.564	2.513	8.0	19.9
11 27	1 59.23	+13 42.8	1.617	2.507	12.2	20.2
12 7	1 55.87	+12 38.1	1.693	2.500	15.8	20.4

45871 2000 VD_{38} 10 30.5 203.°48 7.°2/24.9 18

9 28	2 44.87	− 5 40.1	1.975	2.837	12.4	18.6
10 8	2 38.73	− 6 37.5	1.918	2.835	9.8	18.4
10 18	2 30.76	− 7 26.8	1.885	2.832	7.7	18.3
10 28	2 21.72	− 8 1.3	1.880	2.829	7.3	18.3
11 7	2 12.58	− 8 16.2	1.901	2.825	8.9	18.4
11 17	2 4.26	− 8 9.0	1.949	2.821	11.4	18.5
11 27	1 57.60	− 7 39.6	2.020	2.817	14.0	18.7
12 7	1 53.10	− 6 50.5	2.111	2.812	16.3	18.8

49444 1998 YO_{7} 10 30.5 345.°25 8.°5/26.2 18

9 28	2 41.84	− 3 22.6	1.199	2.093	16.4	18.4
10 8	2 37.58	− 4 0.5	1.139	2.077	12.8	18.1
10 18	2 30.53	− 4 28.2	1.099	2.063	9.6	17.9
10 28	2 21.72	− 4 36.9	1.082	2.050	8.6	17.8
11 7	2 12.55	− 4 19.7	1.088	2.039	10.7	17.9
11 17	2 4.49	− 3 34.1	1.116	2.030	14.4	18.1
11 27	1 58.80	− 2 21.3	1.165	2.022	18.3	18.3
12 7	1 56.21	− 0 45.9	1.231	2.016	21.8	18.5

441135 2007 TP_{125} 10 30.5 342°.38 1°.5/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 42.63	+11 43.4	1.489	2.368	14.8	20.9
10 8	2 37.74	+11 19.8	1.422	2.361	10.7	20.6
10 18	2 30.46	+10 48.6	1.377	2.355	6.1	20.3
10 28	2 21.69	+10 14.0	1.358	2.350	1.7	20.0
11 7	2 12.65	+ 9 41.8	1.365	2.345	4.6	20.2
11 17	2 4.58	+ 9 17.5	1.398	2.341	9.4	20.5
11 27	1 58.57	+ 9 6.1	1.455	2.338	13.7	20.7
12 7	1 55.26	+ 9 10.1	1.532	2.335	17.4	21.0

169842 2002 RF_{7} 10 30.5 75°.76 5°.3/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.40	+29 22.0	1.766	2.575	15.9	19.7
10 8	2 41.59	+29 39.8	1.714	2.599	12.6	19.5
10 18	2 32.47	+29 36.6	1.683	2.622	9.1	19.3
10 28	2 22.06	+29 11.9	1.677	2.646	6.1	19.2
11 7	2 11.65	+28 28.6	1.699	2.669	5.5	19.2
11 17	2 2.47	+27 32.9	1.749	2.692	7.8	19.4
11 27	1 55.49	+26 33.0	1.824	2.715	11.0	19.7
12 7	1 51.25	+25 36.6	1.923	2.737	13.9	19.9

258783 2002 JU_{91} 10 30.5 70°.24 0°.3/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.37	+17 21.9	2.123	2.975	12.0	19.8
10 8	2 36.09	+16 47.4	2.066	2.990	8.7	19.6
10 18	2 29.20	+16 2.9	2.034	3.006	5.0	19.5
10 28	2 21.41	+15 11.6	2.029	3.022	1.1	19.2
11 7	2 13.61	+14 18.1	2.054	3.037	2.9	19.4
11 17	2 6.63	+13 27.4	2.108	3.053	6.6	19.6
11 27	2 1.19	+12 44.4	2.189	3.069	9.9	19.9
12 7	1 57.71	+12 12.5	2.293	3.084	12.7	20.1

72494 2001 DS_{59} 10 30.5 210°.40 3°.3/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.30	+24 40.0	2.517	3.328	11.7	19.1
10 8	2 39.75	+25 10.7	2.433	3.325	9.1	18.9
10 18	2 31.39	+25 29.9	2.374	3.322	6.2	18.8
10 28	2 21.88	+25 36.6	2.342	3.319	3.8	18.6
11 7	2 12.09	+25 31.9	2.341	3.315	3.8	18.6
11 17	2 2.91	+25 18.3	2.370	3.311	6.2	18.8
11 27	1 55.17	+25 0.0	2.426	3.308	9.0	18.9
12 7	1 49.45	+24 41.6	2.508	3.303	11.6	19.1

195062 2002 CU_{86} 10 30.5 124°.41 1°.3/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.84	+12 40.6	1.832	2.695	13.2	20.5
10 8	2 38.80	+12 1.1	1.773	2.705	9.5	20.3
10 18	2 30.82	+11 13.8	1.739	2.715	5.3	20.1
10 28	2 21.75	+10 23.4	1.732	2.724	1.4	19.9
11 7	2 12.62	+ 9 35.1	1.754	2.733	4.0	20.1
11 17	2 4.44	+ 8 54.3	1.804	2.742	8.1	20.3
11 27	1 58.07	+ 8 25.5	1.881	2.750	11.8	20.6
12 7	1 54.01	+ 8 11.2	1.979	2.758	14.8	20.8

360003 2012 XP_{133} 10 30.5 23°.45 1°.7/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.91	+19 35.3	1.300	2.170	17.1	19.6
10 8	2 38.13	+19 24.0	1.247	2.177	12.7	19.3
10 18	2 30.72	+18 55.7	1.214	2.186	7.7	19.1
10 28	2 21.75	+18 13.5	1.205	2.195	2.7	18.8
11 7	2 12.65	+17 23.2	1.221	2.206	3.9	18.9
11 17	2 4.83	+16 32.7	1.263	2.217	8.9	19.2
11 27	1 59.40	+15 49.8	1.328	2.228	13.5	19.5
12 7	1 56.95	+15 20.2	1.414	2.241	17.3	19.8

143758 2003 WY_{10} 10 30.5 329°.09 4°.9/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.05	+24 59.4	1.227	2.082	18.8	19.8
10 8	2 40.28	+25 19.4	1.156	2.073	14.7	19.5
10 18	2 32.29	+25 17.0	1.104	2.064	10.1	19.2
10 28	2 22.13	+24 50.5	1.074	2.056	5.8	19.0
11 7	2 11.42	+24 3.1	1.069	2.049	5.7	19.0
11 17	2 1.94	+23 2.9	1.088	2.042	9.9	19.2
11 27	1 55.19	+22 0.7	1.129	2.036	14.8	19.4
12 7	1 52.01	+21 6.9	1.191	2.030	19.1	19.7

483392 1994 RY_{5} 10 30.5 13°.17 2°.6/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.48	+11 1.8	1.516	2.401	14.2	20.3
10 8	2 34.53	+ 9 54.0	1.462	2.405	10.1	20.1
10 18	2 28.51	+ 8 38.3	1.432	2.411	5.7	19.8
10 28	2 21.31	+ 7 21.7	1.427	2.417	2.6	19.7
11 7	2 14.03	+ 6 12.2	1.449	2.425	5.4	19.9
11 17	2 7.73	+ 5 16.9	1.497	2.433	9.6	20.1
11 27	2 3.31	+ 4 40.7	1.569	2.442	13.5	20.4
12 7	2 1.27	+ 4 25.2	1.661	2.452	16.7	20.6

278094 2007 BS_{24} 10 30.5 300°.58 0°.2/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.45	+16 9.5	1.394	2.265	16.0	21.1
10 8	2 39.45	+15 52.3	1.314	2.248	11.9	20.8
10 18	2 31.67	+15 21.6	1.255	2.231	6.9	20.5
10 28	2 22.00	+14 40.2	1.221	2.213	1.5	20.1
11 7	2 11.81	+13 53.8	1.213	2.197	4.2	20.2
11 17	2 2.55	+13 9.5	1.230	2.180	9.7	20.5
11 27	1 55.56	+12 35.1	1.272	2.164	14.6	20.7
12 7	1 51.66	+12 15.9	1.333	2.148	18.8	20.9

345412 2006 CE_{42} 10 30.5 103°.31 1°.0/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 43.95	+14 1.6	1.754	2.618	13.6	21.0
10 8	2 38.23	+13 13.5	1.697	2.629	9.8	20.8
10 18	2 30.52	+12 16.0	1.664	2.640	5.5	20.6
10 28	2 21.71	+11 13.9	1.658	2.651	1.3	20.3
11 7	2 12.86	+10 13.5	1.681	2.661	4.0	20.5
11 17	2 5.00	+ 9 20.8	1.732	2.671	8.2	20.8
11 27	1 58.99	+ 8 41.0	1.808	2.681	12.0	21.1
12 7	1 55.35	+ 8 17.1	1.906	2.691	15.1	21.3

406311 2007 HL_{84} 10 30.5 214°.41 0°.8/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.21	+11 8.5	2.390	3.243	10.8	20.8
10 8	2 38.85	+11 12.8	2.314	3.240	7.8	20.6
10 18	2 30.82	+11 13.3	2.263	3.237	4.4	20.4
10 28	2 21.79	+11 12.0	2.242	3.234	1.1	20.2
11 7	2 12.56	+11 11.1	2.250	3.230	3.1	20.3
11 17	2 3.97	+11 13.2	2.289	3.227	6.6	20.5
11 27	1 56.77	+11 20.8	2.356	3.223	9.8	20.7
12 7	1 51.49	+11 35.8	2.447	3.219	12.5	20.9

52958 1998 TT_{2} 10 30.5 313°.84 1°.5/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.84	+18 27.5	1.317	2.187	16.8	18.7
10 8	2 39.20	+18 24.1	1.237	2.169	12.6	18.4
10 18	2 31.63	+18 5.1	1.177	2.150	7.7	18.1
10 28	2 22.02	+17 31.8	1.141	2.132	2.5	17.7
11 7	2 11.80	+16 49.2	1.130	2.115	4.2	17.8
11 17	2 2.55	+16 4.3	1.145	2.098	9.7	18.0
11 27	1 55.70	+15 25.8	1.182	2.082	14.9	18.3
12 7	1 52.11	+15 0.5	1.240	2.066	19.3	18.5

42168 2001 CT_{13} 10 30.5 80°.78 3°.3/25.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 34.18	− 2 40.7	4.266	5.126	6.3	18.8
10 8	2 30.33	− 3 16.3	4.211	5.130	4.8	18.7
10 18	2 25.75	− 3 48.9	4.182	5.135	3.6	18.6
10 28	2 20.76	− 4 16.0	4.183	5.139	3.3	18.6
11 7	2 15.73	− 4 35.5	4.214	5.144	4.2	18.7
11 17	2 11.02	− 4 46.0	4.273	5.148	5.6	18.8
11 27	2 6.97	− 4 46.6	4.359	5.153	7.1	18.9
12 7	2 3.85	− 4 37.3	4.467	5.157	8.4	19.0

351795 2006 HH_{84} 10 30.5 40°.87 6°.1/27.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.67	− 1 7.2	1.607	2.481	14.1	20.2
10 8	2 40.31	− 1 35.2	1.555	2.486	10.6	20.0
10 18	2 31.77	− 1 56.9	1.527	2.490	7.4	19.8
10 28	2 21.98	− 2 6.2	1.524	2.496	6.1	19.8
11 7	2 12.13	− 1 58.9	1.548	2.501	7.9	19.9
11 17	2 3.35	− 1 32.8	1.598	2.506	11.2	20.1
11 27	1 56.58	− 0 48.2	1.672	2.512	14.5	20.3
12 7	1 52.39	+ 0 12.8	1.766	2.518	17.4	20.6

490601 2009 WO_{177} 10 30.5 356°.00 0°.4/30.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.55	+12 51.2	1.965	2.827	12.5	21.1
10 8	2 37.95	+12 55.7	1.895	2.825	9.0	20.9
10 18	2 30.43	+12 54.5	1.849	2.824	5.2	20.6
10 28	2 21.73	+12 49.6	1.830	2.822	1.0	20.3
11 7	2 12.82	+12 43.9	1.840	2.822	3.3	20.5
11 17	2 4.68	+12 40.7	1.878	2.821	7.3	20.8
11 27	1 58.18	+12 43.2	1.942	2.821	11.0	21.0
12 7	1 53.89	+12 54.0	2.029	2.822	14.0	21.2

150306 1999 TJ_{295} 10 30.5 97°.91 7°.9/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.46	+39 23.3	2.311	3.046	14.8	20.0
10 8	2 42.40	+40 13.4	2.243	3.060	12.6	19.8
10 18	2 33.04	+40 41.8	2.197	3.074	10.4	19.7
10 28	2 22.27	+40 45.2	2.174	3.088	8.6	19.6
11 7	2 11.25	+40 23.8	2.178	3.101	7.9	19.6
11 17	2 1.18	+39 41.0	2.208	3.115	8.6	19.7
11 27	1 53.10	+38 43.5	2.265	3.128	10.3	19.8
12 7	1 47.62	+37 39.4	2.346	3.141	12.3	20.0

152856 1999 WF_{12} 10 30.5 59°.11 3°.8/27.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.31	+ 3 36.6	1.985	2.855	12.0	19.2
10 8	2 37.52	+ 3 7.5	1.936	2.869	8.7	19.0
10 18	2 30.04	+ 2 39.8	1.911	2.882	5.5	18.9
10 28	2 21.64	+ 2 17.8	1.915	2.896	3.8	18.8
11 7	2 13.23	+ 2 5.6	1.946	2.909	5.6	18.9
11 17	2 5.69	+ 2 5.8	2.005	2.923	8.7	19.1
11 27	1 59.75	+ 2 20.0	2.090	2.937	11.7	19.4
12 7	1 55.88	+ 2 47.8	2.197	2.951	14.3	19.6

349649 2008 UF_{305} 10 30.5 298°.68 7°.0/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.99	+33 7.3	1.753	2.551	16.5	20.5
10 8	2 39.69	+33 31.3	1.667	2.538	13.6	20.3
10 18	2 31.75	+33 32.0	1.600	2.526	10.5	20.1
10 28	2 22.05	+33 6.3	1.557	2.513	7.8	19.9
11 7	2 11.86	+32 15.3	1.540	2.501	7.1	19.8
11 17	2 2.60	+31 4.4	1.549	2.489	9.0	19.9
11 27	1 55.49	+29 42.8	1.584	2.477	12.1	20.1
12 7	1 51.32	+28 20.7	1.641	2.466	15.4	20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
75771 2000 AD_{193}			10 30.5 296°00	4°1/ 3.1 18		
	h m	° ′			°	m
9 28	2 42.24	+28 37.4	1.773	2.594	15.4	19.5
10 8	2 37.39	+28 3.6	1.689	2.585	12.1	19.2
10 18	2 30.26	+27 6.1	1.626	2.576	8.4	19.0
10 28	2 21.72	+25 45.9	1.589	2.567	5.0	18.8
11 7	2 12.93	+24 8.0	1.579	2.558	4.5	18.7
11 17	2 5.07	+22 20.9	1.597	2.549	7.7	18.9
11 27	1 59.16	+20 34.8	1.643	2.540	11.5	19.1
12 7	1 55.83	+18 58.9	1.711	2.531	15.1	19.3
289691 2005 GH_{167}			10 30.5 68°04	0°0/30.3 16		
9 28	2 47.68	+17 24.0	1.309	2.176	17.1	20.6
10 8	2 41.17	+16 30.3	1.274	2.206	12.3	20.4
10 18	2 32.22	+15 22.0	1.260	2.235	7.0	20.2
10 28	2 22.06	+14 5.3	1.272	2.264	1.4	19.9
11 7	2 12.16	+12 48.9	1.310	2.294	4.1	20.2
11 17	2 3.81	+11 41.4	1.376	2.322	9.2	20.5
11 27	1 57.95	+10 49.7	1.465	2.351	13.5	20.9
12 7	1 54.99	+10 17.0	1.576	2.379	16.9	21.2
136341 2004 CO_{23}			10 30.5 81°94	6°8/ 4.9 18		
9 28	2 47.81	+33 26.8	1.897	2.682	15.8	20.1
10 8	2 41.35	+34 0.1	1.832	2.695	13.0	19.9
10 18	2 32.48	+34 11.2	1.788	2.707	10.0	19.8
10 28	2 22.16	+33 57.9	1.769	2.720	7.5	19.7
11 7	2 11.66	+33 21.9	1.776	2.732	6.8	19.6
11 17	2 2.23	+32 28.0	1.811	2.744	8.4	19.8
11 27	1 54.94	+31 24.5	1.871	2.757	11.0	19.9
12 7	1 50.40	+30 19.9	1.955	2.769	13.7	20.2
433115 2012 TM_{138}			10 30.5 42°95	6°5/26.3 18		
9 28	2 43.02	+ 3 35.6	1.175	2.070	16.6	19.8
10 8	2 37.89	+ 1 57.8	1.151	2.096	12.1	19.6
10 18	2 30.37	+ 0 23.3	1.149	2.122	8.0	19.5
10 28	2 21.69	− 0 57.0	1.172	2.148	6.6	19.5
11 7	2 13.26	− 1 54.1	1.218	2.176	9.1	19.7
11 17	2 6.30	− 2 23.5	1.289	2.203	12.8	20.0
11 27	2 1.70	− 2 24.4	1.381	2.232	16.4	20.3
12 7	1 59.87	− 2 0.2	1.491	2.260	19.3	20.6
270228 2001 TF_{196}			10 30.5 47°71	8°2/ 5.0 18		
9 28	2 49.26	+32 46.7	1.271	2.088	20.5	19.7
10 8	2 43.08	+33 30.7	1.225	2.108	16.7	19.6
10 18	2 33.67	+33 44.9	1.198	2.130	12.7	19.4
10 28	2 22.40	+33 26.1	1.192	2.151	9.3	19.3
11 7	2 11.08	+32 37.3	1.211	2.173	8.3	19.3
11 17	2 1.46	+31 27.1	1.253	2.196	10.3	19.5
11 27	1 54.84	+30 8.0	1.320	2.219	13.6	19.7
12 7	1 51.80	+28 51.8	1.407	2.242	16.9	20.0
113412 2002 SG_{26}			10 30.5 10°24	3°5/27.9 18		
9 28	2 41.79	+ 7 34.8	1.627	2.507	13.6	19.6
10 8	2 36.86	+ 6 40.3	1.569	2.508	9.8	19.4
10 18	2 29.85	+ 5 42.0	1.533	2.509	5.9	19.2
10 28	2 21.63	+ 4 46.1	1.524	2.511	3.5	19.1
11 7	2 13.28	+ 3 59.3	1.543	2.513	5.9	19.2
11 17	2 5.87	+ 3 27.0	1.587	2.515	9.8	19.4
11 27	2 0.32	+ 3 12.8	1.656	2.517	13.5	19.7
12 7	1 57.17	+ 3 17.5	1.745	2.520	16.7	19.9
367039 2006 DF_{130}			10 30.5 157°93	3°2/28.5 17		
9 28	2 47.94	+ 8 45.2	1.453	2.328	15.3	21.7
10 8	2 41.50	+ 7 58.2	1.395	2.332	11.0	21.5
10 18	2 32.58	+ 7 5.8	1.360	2.336	6.4	21.2
10 28	2 22.19	+ 6 14.3	1.351	2.340	3.2	21.0
11 7	2 11.66	+ 5 30.8	1.369	2.343	5.9	21.2
11 17	2 2.32	+ 5 1.1	1.414	2.345	10.5	21.5
11 27	1 55.24	+ 4 49.5	1.483	2.348	14.6	21.7
12 7	1 51.03	+ 4 56.8	1.571	2.349	18.1	22.0
132655 2002 LF_{54}			10 30.5 57°68	2°1/ 1.6 18		
9 28	2 40.65	+23 27.5	2.156	2.989	12.6	19.0
10 8	2 35.67	+22 53.5	2.092	3.001	9.5	18.8
10 18	2 29.02	+22 4.7	2.051	3.013	6.0	18.6
10 28	2 21.45	+21 3.5	2.039	3.025	2.8	18.4
11 7	2 13.84	+19 54.6	2.055	3.037	3.0	18.5
11 17	2 7.05	+18 43.7	2.100	3.050	6.2	18.7
11 27	2 1.79	+17 37.1	2.173	3.062	9.5	18.9
12 7	1 58.54	+16 39.9	2.270	3.075	12.3	19.2
190226 2006 DL_{120}			10 30.5 328°28	5°0/25.9 18		
9 28	2 39.73	+ 1 28.3	2.057	2.933	11.4	19.9
10 8	2 35.04	+ 0 24.2	1.995	2.928	8.5	19.7
10 18	2 28.71	− 0 38.4	1.958	2.923	5.9	19.6
10 28	2 21.40	− 1 33.6	1.948	2.919	5.0	19.5
11 7	2 13.97	− 2 15.7	1.966	2.915	6.8	19.6
11 17	2 7.23	− 2 40.8	2.010	2.911	9.7	19.8
11 27	2 1.94	− 2 46.7	2.079	2.907	12.5	20.0
12 7	1 58.58	− 2 33.8	2.169	2.903	15.0	20.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
488499 2000 QR_{216}			10 30.5 50°03	3°2/ 1.1 16		
	h m	° ′			°	m
9 28	2 50.91	+20 32.4	1.034	1.904	20.4	20.3
10 8	2 44.22	+20 54.8	0.999	1.928	15.2	20.1
10 18	2 34.25	+20 57.0	0.983	1.953	9.5	19.8
10 28	2 22.50	+20 40.2	0.990	1.978	4.1	19.6
11 7	2 10.94	+20 9.8	1.021	2.004	4.9	19.8
11 17	2 1.30	+19 34.0	1.076	2.031	10.0	20.1
11 27	1 54.86	+19 2.1	1.154	2.057	14.8	20.5
12 7	1 52.09	+18 41.0	1.251	2.084	18.7	20.8
483538 2003 UR_{231}			10 30.5 343°05	4°3/ 2.1 17		
9 28	2 46.63	+24 26.2	1.944	2.769	14.1	20.4
10 8	2 40.52	+25 16.5	1.864	2.763	11.0	20.1
10 18	2 32.09	+25 53.7	1.807	2.758	7.7	19.9
10 28	2 22.13	+26 16.0	1.777	2.753	4.8	19.8
11 7	2 11.74	+26 23.5	1.774	2.748	4.8	19.7
11 17	2 2.11	+26 18.9	1.800	2.744	7.6	19.9
11 27	1 54.31	+26 7.4	1.852	2.740	10.9	20.1
12 7	1 49.06	+25 54.8	1.927	2.737	14.0	20.3
434914 2006 TX_{85}			10 30.5 318°50	2°6/31.9 18		
9 28	2 45.72	+20 17.6	1.304	2.167	17.4	21.1
10 8	2 40.57	+20 28.5	1.230	2.157	13.2	20.8
10 18	2 32.41	+20 22.6	1.178	2.147	8.3	20.5
10 28	2 22.22	+20 0.5	1.148	2.137	3.5	20.2
11 7	2 11.51	+19 25.8	1.145	2.128	4.4	20.2
11 17	2 1.92	+18 45.4	1.166	2.120	9.5	20.5
11 27	1 54.84	+18 7.8	1.211	2.112	14.5	20.8
12 7	1 51.11	+17 40.5	1.276	2.104	18.7	21.0
320043 2007 DS_{114}			10 30.5 108°34	1°7/28.9 18		
9 28	2 41.24	+10 19.3	2.218	3.083	11.1	21.1
10 8	2 36.02	+ 9 43.3	2.153	3.086	8.0	20.9
10 18	2 29.23	+ 9 2.8	2.113	3.088	4.5	20.7
10 28	2 21.52	+ 8 21.4	2.101	3.091	1.8	20.5
11 7	2 13.70	+ 7 43.5	2.118	3.094	3.9	20.6
11 17	2 6.58	+ 7 13.0	2.164	3.096	7.3	20.9
11 27	2 0.88	+ 6 53.4	2.236	3.099	10.4	21.1
12 7	1 57.05	+ 6 46.4	2.332	3.101	13.1	21.3
346549 2008 UV_{314}			10 30.5 143°67	1°4/31.4 18		
9 28	2 48.50	+17 54.3	1.870	2.715	13.7	20.7
10 8	2 41.64	+18 6.6	1.802	2.720	10.2	20.5
10 18	2 32.59	+18 8.4	1.757	2.726	6.1	20.3
10 28	2 22.22	+18 0.8	1.741	2.731	2.1	20.0
11 7	2 11.64	+17 46.4	1.753	2.736	3.3	20.1
11 17	2 2.00	+17 29.1	1.794	2.740	7.4	20.4
11 27	1 54.27	+17 14.0	1.862	2.745	11.2	20.6
12 7	1 49.06	+17 5.3	1.953	2.748	14.4	20.9
129207 2005 ND_{41}			10 30.5 353°78	0°6/29.6 18		
9 28	2 34.20	+12 19.7	4.112	4.965	6.7	19.9
10 8	2 30.43	+11 55.1	4.037	4.964	4.8	19.7
10 18	2 25.87	+11 27.2	3.989	4.964	2.7	19.6
10 28	2 20.85	+10 57.8	3.971	4.963	0.7	19.4
11 7	2 15.75	+10 29.1	3.984	4.963	2.0	19.5
11 17	2 10.98	+10 3.1	4.027	4.962	4.1	19.7
11 27	2 6.90	+ 9 41.7	4.098	4.962	6.1	19.8
12 7	2 3.80	+ 9 26.5	4.195	4.961	7.8	19.9
48068 2001 EU_{26}			10 30.5 72°64	0°1/30.4 18		
9 28	2 46.28	+16 35.3	1.348	2.217	16.6	18.6
10 8	2 40.33	+15 52.6	1.301	2.235	12.0	18.3
10 18	2 31.89	+14 56.0	1.276	2.252	6.8	18.1
10 28	2 22.07	+13 50.6	1.276	2.269	1.3	17.8
11 7	2 12.31	+12 44.4	1.303	2.287	4.1	18.0
11 17	2 3.92	+11 45.4	1.357	2.304	9.2	18.4
11 27	1 57.92	+11 0.4	1.434	2.321	13.6	18.7
12 7	1 54.83	+10 33.3	1.533	2.338	17.2	19.0
71793 2000 SN_{227}			10 30.5 15°77	6°9/26.8 17		
9 28	2 43.07	+ 3 3.8	1.042	1.943	17.7	18.9
10 8	2 38.54	+ 1 52.7	0.999	1.946	13.1	18.6
10 18	2 31.09	+ 0 43.2	0.976	1.950	8.7	18.4
10 28	2 21.94	− 0 13.9	0.975	1.955	6.9	18.3
11 7	2 12.70	− 0 49.0	0.998	1.961	9.6	18.5
11 17	2 4.91	− 0 56.7	1.043	1.968	14.0	18.8
11 27	1 59.77	− 0 35.6	1.108	1.975	18.3	19.0
12 7	1 57.87	+ 0 11.1	1.189	1.984	21.9	19.3
85956 1999 FT_{35}			10 30.5 284°29	3°0/ 1.5 18		
9 28	2 45.54	+22 33.2	1.591	2.436	15.7	19.0
10 8	2 40.11	+22 35.1	1.505	2.420	12.1	18.7
10 18	2 32.04	+22 19.8	1.442	2.405	7.8	18.5
10 28	2 22.18	+21 47.4	1.403	2.389	3.8	18.2
11 7	2 11.81	+21 1.2	1.391	2.373	4.2	18.2
11 17	2 2.32	+20 7.6	1.406	2.357	8.5	18.4
11 27	1 54.96	+19 14.7	1.446	2.342	12.9	18.6
12 7	1 50.53	+18 30.3	1.508	2.326	16.9	18.8

440793 2006 OK_{10} 10 30.5 37°.39 4°.3/ 2.8 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 43.41	+27 0.6	1.336	2.180	18.2	20.3
10 8	2 38.37	+26 39.9	1.294	2.204	14.0	20.1
10 18	2 30.78	+25 54.5	1.272	2.229	9.4	19.9
10 28	2 21.85	+24 47.1	1.273	2.254	5.3	19.7
11 7	2 13.03	+23 24.7	1.300	2.281	4.8	19.8
11 17	2 5.66	+21 57.2	1.354	2.308	8.4	20.1
11 27	2 0.72	+20 35.0	1.431	2.335	12.4	20.4
12 7	1 58.67	+19 26.0	1.531	2.363	15.9	20.7

481541 2007 QF_{8} 10 30.5 15°.19 6°.2/27.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.03	+ 3 56.4	0.860	1.777	18.8	19.6
10 8	2 35.06	+ 3 12.9	0.834	1.789	13.7	19.4
10 18	2 29.09	+ 2 32.6	0.826	1.805	8.7	19.2
10 28	2 21.52	+ 2 5.0	0.839	1.824	6.2	19.1
11 7	2 14.06	+ 1 57.8	0.873	1.845	8.9	19.3
11 17	2 8.21	+ 2 14.2	0.929	1.868	13.4	19.7
11 27	2 5.08	+ 2 54.2	1.003	1.894	17.8	20.0
12 7	2 5.09	+ 3 54.2	1.095	1.921	21.3	20.4

356093 2009 DM_{142} 10 30.5 59°.22 0°.7/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.48	+16 25.8	1.781	2.637	13.8	21.1
10 8	2 39.48	+16 26.7	1.718	2.644	10.1	20.8
10 18	2 31.37	+16 17.9	1.679	2.651	5.9	20.6
10 28	2 22.00	+16 1.1	1.667	2.659	1.5	20.3
11 7	2 12.49	+15 40.1	1.683	2.667	3.3	20.5
11 17	2 3.93	+15 19.0	1.727	2.675	7.6	20.8
11 27	1 57.26	+15 2.9	1.797	2.682	11.4	21.0
12 7	1 53.04	+14 55.4	1.890	2.690	14.6	21.3

54782 2001 LJ_{19} 10 30.5 14°.65 5°.2/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 38.36	+ 6 5.7	1.260	2.158	15.5	17.3
10 8	2 34.74	+ 4 42.0	1.217	2.164	11.2	17.1
10 18	2 28.77	+ 3 15.7	1.196	2.172	7.0	16.9
10 28	2 21.48	+ 1 56.7	1.199	2.181	5.2	16.8
11 7	2 14.15	+ 0 54.2	1.227	2.192	7.9	17.0
11 17	2 7.98	+ 0 15.0	1.278	2.204	11.9	17.3
11 27	2 3.94	+ 0 1.8	1.352	2.216	15.8	17.5
12 7	2 2.52	+ 0 13.9	1.444	2.231	19.0	17.8

109046 2001 QQ_{14} 10 30.5 76°.74 2°.9/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.91	+21 42.9	1.471	2.319	16.7	20.0
10 8	2 42.30	+21 53.5	1.418	2.334	12.6	19.7
10 18	2 33.09	+21 47.3	1.386	2.350	8.0	19.5
10 28	2 22.37	+21 25.1	1.379	2.365	3.7	19.3
11 7	2 11.57	+20 50.8	1.399	2.381	4.1	19.4
11 17	2 2.08	+20 10.8	1.446	2.396	8.4	19.7
11 27	1 55.02	+19 32.7	1.518	2.412	12.5	20.0
12 7	1 50.95	+19 2.9	1.612	2.427	16.1	20.2

287781 2003 SS_{103} 10 30.5 15°.66 3°.8/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 37.35	+ 9 9.4	1.660	2.545	13.1	19.2
10 8	2 33.59	+ 7 19.4	1.608	2.551	9.4	19.0
10 18	2 27.97	+ 5 22.8	1.581	2.558	5.6	18.8
10 28	2 21.33	+ 3 28.7	1.581	2.565	3.9	18.7
11 7	2 14.64	+ 1 46.5	1.609	2.574	6.4	18.9
11 17	2 8.85	+ 0 23.9	1.664	2.583	10.1	19.1
11 27	2 4.74	− 0 34.4	1.742	2.593	13.5	19.4
12 7	2 2.77	− 1 7.4	1.841	2.604	16.4	19.6

24540 2001 DJ_{16} 10 30.5 217°.73 6°.2/25.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.60	− 1 7.6	1.853	2.725	12.6	18.9
10 8	2 37.99	− 2 10.9	1.794	2.723	9.6	18.7
10 18	2 30.48	− 3 10.0	1.760	2.720	7.0	18.5
10 28	2 21.85	− 3 58.0	1.753	2.717	6.3	18.5
11 7	2 13.09	− 4 29.2	1.772	2.714	8.1	18.6
11 17	2 5.17	− 4 39.9	1.818	2.711	11.0	18.7
11 27	1 58.94	− 4 28.9	1.888	2.708	14.0	18.9
12 7	1 54.94	− 3 57.6	1.977	2.704	16.5	19.1

92051 1999 VM_{206} 10 30.5 154°.91 0°.1/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.97	+15 31.9	2.577	3.423	10.4	19.9
10 8	2 37.14	+15 19.2	2.507	3.428	7.6	19.7
10 18	2 29.86	+14 59.5	2.462	3.433	4.4	19.5
10 28	2 21.73	+14 34.9	2.445	3.438	0.9	19.3
11 7	2 13.48	+14 8.1	2.460	3.442	2.5	19.4
11 17	2 5.87	+13 42.6	2.504	3.446	5.8	19.6
11 27	1 59.55	+13 21.8	2.577	3.450	8.8	19.8
12 7	1 54.96	+13 8.3	2.674	3.454	11.4	20.0

221472 2006 BX_{148} 10 30.5 350°.23 6°.9/24.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.26	− 5 11.1	2.051	2.919	11.7	19.7
10 8	2 36.14	− 6 11.5	1.997	2.918	9.3	19.5
10 18	2 29.36	− 7 4.3	1.968	2.916	7.3	19.4
10 28	2 21.63	− 7 43.4	1.966	2.915	7.0	19.4
11 7	2 13.80	− 8 3.9	1.990	2.914	8.5	19.5
11 17	2 6.73	− 8 3.3	2.041	2.914	10.9	19.7
11 27	2 1.15	− 7 41.2	2.114	2.913	13.4	19.8
12 7	1 57.54	− 6 59.7	2.207	2.913	15.6	20.0

401311 2012 XT_{142} 10 30.5 288°.47 21°.8/16.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 54.26	−31 25.2	1.154	1.957	23.0	20.7
10 8	2 46.86	−33 8.6	1.125	1.947	22.1	20.6
10 18	2 35.92	−34 9.0	1.110	1.937	21.8	20.5
10 28	2 22.97	−34 12.2	1.111	1.928	22.3	20.5
11 7	2 10.02	−33 12.6	1.127	1.918	23.4	20.6
11 17	1 58.97	−31 13.4	1.158	1.909	25.0	20.7
11 27	1 51.20	−28 24.8	1.203	1.899	26.8	20.8
12 7	1 47.26	−25 0.7	1.260	1.890	28.4	20.9

101667 1999 CX_{94} 10 30.5 266°.25 2°.4/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.27	+20 23.7	1.628	2.475	15.3	18.8
10 8	2 41.23	+20 35.1	1.550	2.468	11.6	18.5
10 18	2 32.63	+20 32.5	1.494	2.460	7.3	18.3
10 28	2 22.35	+20 16.1	1.464	2.453	3.1	18.0
11 7	2 11.65	+19 48.9	1.462	2.445	3.9	18.0
11 17	2 1.89	+19 16.1	1.487	2.437	8.3	18.3
11 27	1 54.24	+18 44.6	1.537	2.429	12.6	18.5
12 7	1 49.46	+18 20.4	1.610	2.421	16.3	18.7

342721 2008 WC_{23} 10 30.5 257°.94 1°.5/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.38	+21 32.3	2.120	2.955	12.7	20.9
10 8	2 38.71	+20 52.8	2.019	2.932	9.6	20.7
10 18	2 31.02	+19 57.4	1.943	2.908	6.0	20.4
10 28	2 22.01	+18 48.0	1.894	2.883	2.2	20.1
11 7	2 12.63	+17 29.3	1.875	2.858	3.0	20.2
11 17	2 3.89	+16 7.6	1.885	2.832	7.1	20.4
11 27	1 56.73	+14 50.6	1.924	2.805	10.9	20.5
12 7	1 51.80	+13 44.3	1.986	2.778	14.3	20.7

258348 2001 VU_{109} 10 30.5 342°.62 0°.3/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.00	+16 18.9	1.851	2.710	13.3	20.6
10 8	2 37.72	+16 3.8	1.780	2.708	9.7	20.4
10 18	2 30.42	+15 38.5	1.732	2.705	5.7	20.1
10 28	2 21.88	+15 5.6	1.711	2.704	1.3	19.8
11 7	2 13.14	+14 29.4	1.718	2.702	3.2	20.0
11 17	2 5.22	+13 54.7	1.754	2.701	7.5	20.2
11 27	1 59.03	+13 26.9	1.815	2.699	11.3	20.5
12 7	1 55.16	+13 9.6	1.898	2.698	14.6	20.7

433162 2012 TL_{258} 10 30.5 348°.16 0°.6/29.9 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 37.88	+13 24.9	2.422	3.284	10.4	21.2
10 8	2 33.63	+12 58.8	2.347	3.278	7.5	21.0
10 18	2 27.93	+12 26.4	2.297	3.272	4.2	20.8
10 28	2 21.37	+11 50.6	2.275	3.268	0.9	20.5
11 7	2 14.65	+11 15.0	2.282	3.263	2.9	20.7
11 17	2 8.50	+10 43.4	2.318	3.259	6.3	20.9
11 27	2 3.57	+10 19.3	2.381	3.255	9.4	21.1
12 7	2 0.33	+10 5.2	2.467	3.252	12.0	21.2

161310 2003 OE_{28} 10 30.5 81°.99 7°.2/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.69	+33 53.7	1.741	2.528	17.0	19.9
10 8	2 42.87	+34 27.5	1.683	2.546	14.0	19.8
10 18	2 33.45	+34 37.0	1.645	2.564	10.8	19.6
10 28	2 22.50	+34 19.7	1.632	2.582	8.1	19.5
11 7	2 11.43	+33 37.4	1.644	2.600	7.2	19.5
11 17	2 1.62	+32 36.3	1.683	2.618	8.8	19.6
11 27	1 54.19	+31 25.5	1.749	2.635	11.6	19.8
12 7	1 49.73	+30 14.7	1.836	2.653	14.4	20.0

16053 Brennan 10 30.5 291°.15 0°.3/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.54	+16 43.3	1.980	2.835	12.7	18.5
10 8	2 37.26	+16 18.2	1.907	2.833	9.3	18.3
10 18	2 30.11	+15 42.7	1.859	2.832	5.4	18.0
10 28	2 21.82	+14 59.6	1.838	2.831	1.2	17.8
11 7	2 13.36	+14 13.4	1.846	2.829	3.1	17.9
11 17	2 5.68	+13 29.2	1.882	2.828	7.2	18.2
11 27	1 59.62	+12 52.2	1.945	2.827	10.8	18.4
12 7	1 55.74	+12 26.4	2.031	2.826	14.0	18.6

455044 2015 UO_{7} 10 30.5 345°.74 7°.6/24.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.00	− 2 54.2	1.650	2.534	13.3	19.9
10 8	2 34.90	− 4 21.1	1.595	2.526	10.3	19.7
10 18	2 28.82	− 5 42.2	1.563	2.519	8.1	19.5
10 28	2 21.57	− 6 49.0	1.557	2.513	7.8	19.5
11 7	2 14.15	− 7 33.9	1.576	2.508	9.7	19.6
11 17	2 7.58	− 7 52.7	1.619	2.503	12.6	19.8
11 27	2 2.73	− 7 44.3	1.684	2.499	15.6	20.0
12 7	2 0.14	− 7 10.8	1.767	2.496	18.2	20.2

116386 2003 YZ_{125} 10 30.5 315°.67 5°.2/27.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.20	+ 1 3.7	1.629	2.503	13.9	19.0
10 8	2 40.24	+ 0 43.6	1.560	2.492	10.4	18.8
10 18	2 31.97	+ 0 27.6	1.513	2.482	6.9	18.6
10 28	2 22.23	+ 0 21.0	1.493	2.471	5.2	18.5
11 7	2 12.20	+ 0 28.6	1.500	2.461	7.2	18.6
11 17	2 3.07	+ 0 52.9	1.534	2.451	10.9	18.8
11 27	1 55.89	+ 1 34.9	1.591	2.442	14.6	19.0
12 7	1 51.31	+ 2 33.1	1.669	2.433	17.7	19.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
169930 2002 TZ_7		10 30.5 54°.20 0°.6/30.9 18				
	h m	° ′			°	m
9 28	2 44.36	+17 6.7	1.686	2.545	14.3	20.0
10 8	2 38.76	+16 51.7	1.626	2.553	10.5	19.8
10 18	2 31.02	+16 25.2	1.589	2.562	6.1	19.5
10 28	2 22.02	+15 49.9	1.579	2.571	1.5	19.2
11 7	2 12.91	+15 10.6	1.596	2.580	3.4	19.4
11 17	2 4.80	+14 32.8	1.641	2.589	7.8	19.7
11 27	1 58.64	+14 2.1	1.711	2.598	11.8	20.0
12 7	1 54.98	+13 42.7	1.804	2.608	15.1	20.2
140101 2001 SV_{131}		10 30.5 238°.72 1°.1/31.3 18				
9 28	2 46.05	+18 36.7	1.743	2.594	14.3	20.3
10 8	2 40.16	+18 20.7	1.663	2.585	10.6	20.0
10 18	2 31.95	+17 51.2	1.606	2.577	6.4	19.8
10 28	2 22.24	+17 10.5	1.576	2.567	2.0	19.5
11 7	2 12.21	+16 22.8	1.574	2.558	3.4	19.6
11 17	2 3.04	+15 34.1	1.600	2.548	8.0	19.8
11 27	1 55.80	+14 51.3	1.652	2.538	12.2	20.0
12 7	1 51.17	+14 19.6	1.726	2.527	15.8	20.3
12750 Berthollet		10 30.5 118°.06 8°.0/24.0 18				
9 28	2 43.06	− 4 55.1	1.757	2.629	13.2	17.1
10 8	2 37.62	− 6 23.7	1.712	2.634	10.4	16.9
10 18	2 30.28	− 7 44.2	1.690	2.638	8.4	16.8
10 28	2 21.87	− 8 48.1	1.695	2.642	8.1	16.8
11 7	2 13.42	− 9 28.9	1.726	2.647	9.9	16.9
11 17	2 5.89	− 9 43.4	1.782	2.651	12.5	17.1
11 27	2 0.12	− 9 31.5	1.860	2.655	15.1	17.3
12 7	1 56.61	− 8 55.9	1.956	2.658	17.4	17.5
365744 2010 WZ_{22}		10 30.5 151°.69 3°.9/27.2 18				
9 28	2 44.23	+ 0 38.6	2.550	3.409	10.1	21.0
10 8	2 37.98	+ 0 14.8	2.490	3.415	7.5	20.9
10 18	2 30.33	− 0 5.9	2.457	3.420	5.0	20.7
10 28	2 21.88	− 0 20.2	2.453	3.426	4.0	20.7
11 7	2 13.38	− 0 24.8	2.478	3.431	5.4	20.8
11 17	2 5.53	− 0 17.9	2.533	3.435	7.8	21.0
11 27	1 58.98	+ 0 1.5	2.614	3.440	10.3	21.1
12 7	1 54.15	+ 0 33.0	2.718	3.444	12.5	21.3
321315 2009 HN_{45}		10 30.5 101°.50 0°.8/31.1 15				
9 28	2 48.42	+18 27.6	1.452	2.310	16.3	21.2
10 8	2 41.86	+17 57.1	1.400	2.326	11.9	21.0
10 18	2 32.82	+17 11.5	1.371	2.343	7.0	20.8
10 28	2 22.40	+16 14.5	1.367	2.359	1.8	20.5
11 7	2 11.99	+15 12.8	1.391	2.374	3.7	20.6
11 17	2 2.90	+14 14.1	1.441	2.390	8.7	21.0
11 27	1 56.18	+13 25.8	1.517	2.404	13.0	21.3
12 7	1 52.36	+12 52.5	1.615	2.419	16.6	21.5
209937 2006 DX_{13}		10 30.5 109°.42 1°.9/31.8 17				
9 28	2 51.37	+20 13.9	1.512	2.358	16.4	21.0
10 8	2 43.94	+20 4.4	1.460	2.378	12.1	20.8
10 18	2 33.98	+19 39.1	1.431	2.398	7.4	20.6
10 28	2 22.63	+19 0.0	1.428	2.418	2.7	20.4
11 7	2 11.32	+18 12.3	1.453	2.437	3.7	20.5
11 17	2 1.37	+17 22.9	1.506	2.455	8.3	20.8
11 27	1 53.86	+16 39.2	1.585	2.472	12.5	21.1
12 7	1 49.31	+16 6.8	1.685	2.489	16.0	21.4
241924 2002 CH_{12}		10 30.5 15°.83 5°.9/27.4 18				
9 28	2 41.48	+ 5 54.1	0.912	1.821	18.8	18.7
10 8	2 37.69	+ 4 44.2	0.872	1.825	13.7	18.4
10 18	2 30.75	+ 3 32.0	0.852	1.831	8.5	18.2
10 28	2 22.00	+ 2 28.7	0.853	1.838	5.9	18.0
11 7	2 13.18	+ 1 45.3	0.876	1.846	9.0	18.3
11 17	2 5.93	+ 1 28.5	0.920	1.856	14.0	18.6
11 27	2 1.52	+ 1 40.8	0.984	1.867	18.6	18.9
12 7	2 0.51	+ 2 19.4	1.064	1.880	22.5	19.2
166888 2002 YY_6		10 30.5 291°.36 3°.1/ 2.0 18				
9 28	2 43.79	+24 7.2	1.947	2.778	13.8	20.1
10 8	2 38.36	+24 5.4	1.869	2.775	10.6	19.8
10 18	2 30.84	+23 47.9	1.814	2.771	7.1	19.6
10 28	2 22.03	+23 15.2	1.785	2.768	3.8	19.4
11 7	2 12.96	+22 30.4	1.784	2.765	3.8	19.4
11 17	2 4.71	+21 38.8	1.812	2.761	7.1	19.6
11 27	1 58.22	+20 47.1	1.866	2.758	10.7	19.8
12 7	1 54.10	+20 1.4	1.943	2.755	13.9	20.0
521203 2015 FW_{413}		10 30.5 147°.18 3°.9/27.6 18				
9 28	2 43.90	+ 6 57.8	1.685	2.561	13.5	21.2
10 8	2 38.36	+ 5 49.7	1.627	2.564	9.7	20.9
10 18	2 30.78	+ 4 38.0	1.593	2.567	5.9	20.7
10 28	2 22.00	+ 3 29.5	1.586	2.570	3.9	20.6
11 7	2 13.13	+ 2 31.3	1.607	2.573	6.2	20.8
11 17	2 5.21	+ 1 49.3	1.654	2.575	10.0	21.0
11 27	1 59.15	+ 1 27.1	1.726	2.577	13.6	21.2
12 7	1 55.48	+ 1 25.2	1.819	2.580	16.6	21.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
280595 2004 VW_{26}		10 30.5 29°.44 5°.6/ 4.3 18				
	h m	° ′			°	m
9 28	2 41.87	+31 29.5	1.300	2.131	19.4	19.6
10 8	2 37.60	+30 53.7	1.244	2.142	15.4	19.4
10 18	2 30.57	+29 46.0	1.206	2.153	11.0	19.2
10 28	2 21.96	+28 7.9	1.191	2.166	6.9	19.0
11 7	2 13.33	+26 7.7	1.202	2.179	5.8	19.0
11 17	2 6.12	+23 57.6	1.238	2.193	8.9	19.2
11 27	2 1.44	+21 52.0	1.299	2.208	13.0	19.5
12 7	1 59.81	+20 2.1	1.382	2.223	16.8	19.7
136077 2003 AP_{17}		10 30.5 358°.68 4°.0/ 1.6 18				
9 28	2 45.32	+21 39.2	1.363	2.220	17.1	18.1
10 8	2 40.22	+22 26.8	1.296	2.217	13.2	17.9
10 18	2 32.24	+22 59.5	1.251	2.214	8.7	17.6
10 28	2 22.36	+23 15.4	1.229	2.213	4.7	17.4
11 7	2 12.03	+23 15.9	1.232	2.213	5.0	17.4
11 17	2 2.81	+23 5.3	1.261	2.214	9.1	17.6
11 27	1 56.02	+22 50.7	1.314	2.216	13.4	17.9
12 7	1 52.44	+22 39.0	1.387	2.220	17.3	18.2
334937 2004 BE_{55}		10 30.5 194°.44 5°.0/26.9 16				
9 28	2 45.49	+ 3 52.0	1.639	2.515	13.8	21.1
10 8	2 39.60	+ 2 45.8	1.579	2.514	10.1	20.8
10 18	2 31.54	+ 1 38.8	1.542	2.512	6.6	20.6
10 28	2 22.18	+ 0 38.5	1.532	2.511	5.0	20.5
11 7	2 12.66	− 0 8.2	1.550	2.509	7.3	20.7
11 17	2 4.11	− 0 36.0	1.594	2.506	10.9	20.9
11 27	1 57.50	− 0 42.2	1.661	2.503	14.5	21.1
12 7	1 53.40	− 0 27.2	1.749	2.500	17.5	21.3
485807 2012 DE_{41}		10 30.5 193°.34 5°.5/ 4.3 17				
9 28	2 45.44	+31 39.9	2.278	3.064	13.5	21.9
10 8	2 39.46	+32 5.4	2.197	3.064	11.0	21.7
10 18	2 31.46	+32 13.2	2.139	3.063	8.3	21.6
10 28	2 22.18	+32 1.9	2.107	3.063	6.1	21.4
11 7	2 12.63	+31 32.6	2.102	3.062	5.6	21.4
11 17	2 3.82	+30 48.9	2.126	3.061	7.2	21.5
11 27	1 56.70	+29 57.1	2.176	3.061	9.7	21.7
12 7	1 51.86	+29 3.8	2.251	3.060	12.3	21.8
327156 2005 GT_{113}		10 30.5 154°.48 0°.0/30.5 16				
9 28	2 50.28	+14 51.7	1.745	2.597	14.2	21.5
10 8	2 43.03	+14 47.7	1.680	2.605	10.4	21.3
10 18	2 33.49	+14 34.8	1.639	2.612	6.0	21.0
10 28	2 22.59	+14 15.2	1.625	2.618	1.3	20.7
11 7	2 11.52	+13 52.5	1.641	2.623	3.5	20.9
11 17	2 1.49	+13 31.6	1.685	2.628	8.1	21.2
11 27	1 53.50	+13 17.1	1.755	2.633	12.1	21.5
12 7	1 48.18	+13 12.5	1.848	2.636	15.4	21.7
461251 2015 XV_5		10 30.5 332°.29 6°.2/25.1 18				
9 28	2 40.89	− 2 37.7	2.048	2.920	11.6	20.9
10 8	2 35.93	− 3 42.5	1.992	2.917	8.9	20.7
10 18	2 29.31	− 4 42.1	1.960	2.915	6.8	20.6
10 28	2 21.73	− 5 30.3	1.955	2.913	6.3	20.6
11 7	2 14.03	− 6 1.7	1.977	2.911	7.9	20.7
11 17	2 7.07	− 6 13.2	2.025	2.909	10.5	20.8
11 27	2 1.57	− 6 3.8	2.097	2.907	13.1	21.0
12 7	1 58.04	− 5 34.8	2.189	2.905	15.4	21.2
365305 2009 RV_{71}		10 30.5 57°.69 0°.9/31.3 18				
9 28	2 43.40	+17 45.1	2.036	2.885	12.6	21.1
10 8	2 37.79	+17 39.0	1.975	2.897	9.2	20.9
10 18	2 30.38	+17 22.8	1.938	2.908	5.5	20.7
10 28	2 21.94	+16 58.8	1.929	2.920	1.6	20.5
11 7	2 13.42	+16 30.1	1.948	2.932	2.9	20.6
11 17	2 5.72	+16 1.2	1.996	2.944	6.7	20.8
11 27	1 59.66	+15 36.6	2.071	2.956	10.1	21.1
12 7	1 55.73	+15 19.8	2.170	2.968	13.0	21.3
223354 2003 RO_{21}		10 30.5 359°.01 4°.4/ 2.8 18				
9 28	2 41.21	+26 12.8	1.664	2.501	15.5	19.0
10 8	2 36.82	+26 25.5	1.593	2.498	12.2	18.8
10 18	2 30.10	+26 19.3	1.543	2.496	8.5	18.6
10 28	2 21.92	+25 54.0	1.517	2.495	5.2	18.4
11 7	2 13.45	+25 12.6	1.518	2.495	4.8	18.4
11 17	2 5.91	+24 20.7	1.545	2.496	7.9	18.6
11 27	2 0.35	+23 26.3	1.597	2.498	11.5	18.8
12 7	1 57.42	+22 36.7	1.671	2.501	14.9	19.0
453741 2011 BQ_{141}		10 30.5 44°.96 4°.7/26.7 18				
9 28	2 41.90	+ 0 52.0	2.122	2.992	11.3	21.0
10 8	2 36.57	+ 0 10.7	2.066	2.996	8.4	20.8
10 18	2 29.63	− 0 27.7	2.036	3.001	5.7	20.7
10 28	2 21.79	− 0 58.2	2.032	3.005	4.7	20.6
11 7	2 13.88	− 1 16.5	2.058	3.010	6.3	20.7
11 17	2 6.70	− 1 20.0	2.110	3.014	9.1	20.9
11 27	2 0.99	− 1 7.3	2.187	3.019	11.9	21.1
12 7	1 57.20	− 0 39.0	2.286	3.024	14.3	21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
48739 1997 EV_{17}			10 30.5 216°.21	4°.2/ 2.4 18		
	h m	° ′			°	m
9 28	2 47.72	+25 35.0	1.619	2.450	16.2	19.1
10 8	2 41.64	+25 42.7	1.544	2.447	12.6	18.8
10 18	2 32.92	+25 31.0	1.490	2.444	8.6	18.6
10 28	2 22.51	+24 59.2	1.460	2.441	5.0	18.4
11 7	2 11.74	+24 10.5	1.458	2.437	4.8	18.4
11 17	2 2.02	+23 11.3	1.484	2.433	8.3	18.6
11 27	1 54.53	+22 10.3	1.534	2.429	12.4	18.8
12 7	1 49.98	+21 16.0	1.607	2.424	16.0	19.0
411949 2012 HB_{6}			10 30.5 224°.63	5°.5/25.3 18		
9 28	2 41.89	− 4 9.8	2.526	3.386	10.1	20.7
10 8	2 36.40	− 4 53.8	2.463	3.381	7.9	20.6
10 18	2 29.50	− 5 32.3	2.426	3.375	6.0	20.4
10 28	2 21.77	− 6 0.5	2.416	3.370	5.6	20.4
11 7	2 13.93	− 6 14.7	2.435	3.364	6.9	20.5
11 17	2 6.69	− 6 12.7	2.482	3.358	9.1	20.6
11 27	2 0.68	− 5 53.8	2.554	3.352	11.4	20.8
12 7	1 56.36	− 5 19.2	2.646	3.346	13.4	20.9
67115 2000 AF_{116}			10 30.5 313°.20	3°.1/27.9 18		
9 28	2 40.13	+ 7 24.0	2.033	2.906	11.6	19.0
10 8	2 35.49	+ 6 32.2	1.960	2.896	8.4	18.8
10 18	2 29.13	+ 5 36.8	1.912	2.887	5.0	18.5
10 28	2 21.72	+ 4 42.9	1.892	2.878	3.1	18.4
11 7	2 14.10	+ 3 55.9	1.900	2.869	5.1	18.5
11 17	2 7.17	+ 3 20.7	1.936	2.860	8.6	18.7
11 27	2 1.69	+ 3 0.6	1.997	2.851	11.9	18.9
12 7	1 58.20	+ 2 57.2	2.079	2.843	14.7	19.1
213990 2004 BF_{26}			10 30.6 149°.22	2°.6/ 1.4 18		
9 28	2 47.21	+21 39.9	2.025	2.856	13.3	20.9
10 8	2 40.73	+21 55.5	1.952	2.860	10.1	20.7
10 18	2 32.18	+21 58.7	1.904	2.864	6.5	20.5
10 28	2 22.35	+21 49.5	1.882	2.867	3.2	20.3
11 7	2 12.30	+21 30.1	1.890	2.870	3.5	20.3
11 17	2 3.09	+21 4.7	1.926	2.873	6.9	20.5
11 27	1 55.64	+20 38.4	1.990	2.876	10.4	20.8
12 7	1 50.56	+20 16.3	2.077	2.879	13.5	21.0
303488 2005 EB_{91}			10 30.6 278°.65	4°.9/ 2.9 18		
9 28	2 46.48	+27 23.9	1.804	2.623	15.3	20.9
10 8	2 40.65	+27 47.8	1.722	2.615	12.1	20.7
10 18	2 32.34	+27 53.5	1.662	2.607	8.7	20.5
10 28	2 22.42	+27 39.6	1.626	2.599	5.6	20.3
11 7	2 12.06	+27 7.5	1.618	2.591	5.3	20.2
11 17	2 2.57	+26 22.1	1.638	2.584	8.0	20.4
11 27	1 55.10	+25 30.8	1.683	2.576	11.6	20.6
12 7	1 50.36	+24 41.6	1.751	2.568	14.9	20.8
127959 2003 HD_{20}			10 30.6 187°.64	0°.0/30.4 18		
9 28	2 46.30	+15 33.8	1.992	2.843	12.8	21.3
10 8	2 40.00	+15 12.1	1.919	2.843	9.3	21.1
10 18	2 31.73	+14 40.9	1.869	2.842	5.4	20.9
10 28	2 22.26	+14 3.1	1.848	2.841	1.1	20.6
11 7	2 12.60	+13 22.8	1.856	2.839	3.2	20.7
11 17	2 3.75	+12 44.8	1.894	2.836	7.4	21.0
11 27	1 56.61	+12 14.3	1.958	2.833	11.1	21.2
12 7	1 51.74	+11 54.7	2.045	2.830	14.2	21.4
46837 1998 QB_{13}			10 30.6 280°.36	4°.7/27.3 18		
9 28	2 44.05	+ 5 57.5	1.458	2.340	14.8	18.2
10 8	2 38.88	+ 4 48.7	1.392	2.332	10.8	17.9
10 18	2 31.29	+ 3 35.9	1.350	2.324	6.8	17.7
10 28	2 22.19	+ 2 27.2	1.333	2.316	4.7	17.6
11 7	2 12.82	+ 1 31.0	1.343	2.308	7.3	17.7
11 17	2 4.45	+ 0 53.9	1.378	2.300	11.5	17.9
11 27	1 58.16	+ 0 40.0	1.436	2.292	15.5	18.1
12 7	1 54.61	+ 0 49.6	1.513	2.284	19.0	18.4
476346 2008 AO_{111}			10 30.6 336°.96	6°.0/26.6 17		
9 28	2 39.81	+ 2 54.1	1.331	2.225	15.1	20.1
10 8	2 36.05	+ 1 53.3	1.264	2.208	11.3	19.8
10 18	2 29.79	+ 0 52.2	1.218	2.191	7.6	19.6
10 28	2 21.90	− 0 0.5	1.197	2.175	6.1	19.5
11 7	2 13.65	− 0 36.4	1.199	2.161	8.6	19.6
11 17	2 6.33	− 0 49.4	1.226	2.147	12.7	19.8
11 27	2 1.10	− 0 36.8	1.274	2.135	16.8	20.0
12 7	1 58.66	+ 0 0.7	1.339	2.125	20.3	20.2
268037 2004 PL_{75}			10 30.6 28°.48	14°.2/18.2 17		
9 28	2 40.76	− 3 36.3	0.877	1.787	19.2	18.8
10 8	2 37.19	− 8 1.3	0.850	1.791	15.7	18.6
10 18	2 30.49	−12 13.3	0.846	1.795	14.2	18.5
10 28	2 22.02	−15 44.5	0.864	1.799	15.5	18.6
11 7	2 13.54	−18 15.3	0.904	1.804	18.7	18.8
11 17	2 6.66	−19 39.4	0.961	1.810	22.2	19.1
11 27	2 2.59	−20 1.5	1.032	1.816	25.3	19.3
12 7	2 1.86	−19 32.9	1.115	1.822	27.8	19.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
305331 2008 AM_{95}			10 30.6 300°.11	2°.2/ 1.3 18		
	h m	° ′			°	m
9 28	2 43.72	+21 36.5	1.903	2.744	13.7	20.9
10 8	2 38.32	+21 27.4	1.828	2.742	10.3	20.7
10 18	2 30.85	+21 4.0	1.776	2.740	6.5	20.4
10 28	2 22.11	+20 27.6	1.750	2.738	2.9	20.2
11 7	2 13.13	+19 42.0	1.753	2.736	3.3	20.2
11 17	2 4.99	+18 52.6	1.784	2.734	7.1	20.5
11 27	1 58.61	+18 5.7	1.841	2.732	10.9	20.7
12 7	1 54.58	+17 26.9	1.922	2.730	14.1	20.9
395442 2011 SC_{250}			10 30.6 120°.31	3°.7/ 2.1 18		
9 28	2 49.79	+24 8.2	2.008	2.827	13.9	21.0
10 8	2 42.63	+24 40.6	1.940	2.837	10.7	20.8
10 18	2 33.29	+24 58.9	1.896	2.847	7.3	20.6
10 28	2 22.61	+25 2.2	1.879	2.857	4.3	20.4
11 7	2 11.71	+24 52.0	1.891	2.867	4.2	20.4
11 17	2 1.74	+24 31.8	1.932	2.876	7.1	20.6
11 27	1 53.67	+24 7.5	2.000	2.885	10.4	20.9
12 7	1 48.10	+23 44.6	2.093	2.894	13.4	21.1
516269 2016 VM_{15}			10 30.6 42°.17	9°.6/ 6.1 18		
9 28	2 49.81	+35 42.5	1.382	2.178	20.2	20.1
10 8	2 43.65	+36 46.6	1.331	2.194	16.9	19.9
10 18	2 34.24	+37 21.1	1.298	2.211	13.5	19.8
10 28	2 22.82	+37 21.2	1.286	2.229	10.6	19.7
11 7	2 11.17	+36 47.5	1.298	2.247	9.6	19.7
11 17	2 1.08	+35 47.2	1.334	2.266	10.9	19.8
11 27	1 53.93	+34 31.7	1.394	2.285	13.6	20.0
12 7	1 50.39	+33 13.6	1.475	2.304	16.6	20.2
257978 2001 CR_{48}			10 30.6 202°.36	0°.4/31.0 17		
9 28	2 41.86	+17 9.4	2.710	3.550	10.1	21.5
10 8	2 36.41	+16 48.7	2.628	3.547	7.4	21.3
10 18	2 29.54	+16 19.9	2.573	3.543	4.3	21.1
10 28	2 21.82	+15 45.0	2.546	3.538	1.1	20.8
11 7	2 13.95	+15 7.0	2.550	3.533	2.4	20.9
11 17	2 6.63	+14 29.4	2.585	3.528	5.6	21.2
11 27	2 0.51	+13 56.1	2.647	3.523	8.6	21.3
12 7	1 56.04	+13 30.3	2.735	3.517	11.1	21.5
521753 2015 RP_{274}			10 30.6 166°.29	0°.0/30.4 18		
9 28	2 43.39	+15 19.6	2.038	2.893	12.3	21.9
10 8	2 37.86	+15 0.7	1.967	2.894	9.0	21.7
10 18	2 30.50	+14 33.2	1.921	2.894	5.2	21.5
10 28	2 22.03	+13 59.7	1.902	2.894	1.1	21.2
11 7	2 13.40	+13 24.1	1.912	2.895	3.1	21.3
11 17	2 5.53	+12 51.1	1.951	2.895	7.1	21.6
11 27	1 59.25	+12 25.0	2.016	2.895	10.6	21.8
12 7	1 55.11	+12 9.3	2.105	2.895	13.7	22.0
303178 2004 FY_{34}			10 30.6 315°.06	2°.7/ 1.6 18		
9 28	2 44.08	+22 46.2	1.860	2.698	14.1	20.2
10 8	2 38.66	+22 44.0	1.785	2.695	10.7	20.0
10 18	2 31.08	+22 26.6	1.732	2.693	7.0	19.8
10 28	2 22.17	+21 54.7	1.705	2.690	3.4	19.5
11 7	2 13.00	+21 11.8	1.706	2.687	3.6	19.6
11 17	2 4.67	+20 23.4	1.735	2.685	7.3	19.8
11 27	1 58.16	+19 35.9	1.790	2.683	11.0	20.0
12 7	1 54.10	+18 55.5	1.869	2.680	14.3	20.2
74010 1998 FC_{104}			10 30.6 96°.70	1°.0/31.3 18		
9 28	2 46.38	+20 0.2	1.453	2.310	16.3	18.6
10 8	2 40.47	+19 15.2	1.397	2.322	12.0	18.4
10 18	2 32.10	+18 12.5	1.364	2.335	7.1	18.1
10 28	2 22.36	+16 56.7	1.356	2.347	2.1	17.9
11 7	2 12.58	+15 35.2	1.375	2.359	3.7	18.0
11 17	2 4.07	+14 17.1	1.422	2.371	8.6	18.3
11 27	1 57.86	+13 10.7	1.494	2.383	13.0	18.6
12 7	1 54.48	+12 21.4	1.587	2.395	16.6	18.9
367027 2006 BY_{275}			10 30.6 131°.30	2°.2/28.4 18		
9 28	2 41.12	+ 7 46.1	2.669	3.530	9.6	21.8
10 8	2 35.75	+ 7 10.4	2.609	3.539	6.9	21.6
10 18	2 29.10	+ 6 32.5	2.575	3.549	4.0	21.5
10 28	2 21.73	+ 5 56.0	2.571	3.558	2.2	21.4
11 7	2 14.31	+ 5 24.3	2.596	3.567	3.8	21.5
11 17	2 7.49	+ 5 0.4	2.652	3.575	6.6	21.7
11 27	2 1.85	+ 4 46.7	2.734	3.583	9.2	21.9
12 7	1 57.80	+ 4 44.3	2.840	3.591	11.5	22.0
120906 1998 SL_{39}			10 30.6 259°.95	0°.5/30.1 18		
9 28	2 41.42	+14 19.7	2.322	3.177	11.0	20.6
10 8	2 36.31	+13 50.4	2.240	3.168	8.0	20.4
10 18	2 29.58	+13 13.5	2.184	3.158	4.6	20.2
10 28	2 21.86	+12 31.8	2.156	3.148	0.9	19.9
11 7	2 13.92	+11 49.2	2.157	3.138	3.0	20.1
11 17	2 6.59	+11 10.0	2.187	3.128	6.7	20.3
11 27	2 0.60	+10 38.6	2.245	3.118	10.0	20.5
12 7	1 56.47	+10 17.7	2.326	3.108	12.8	20.7

263589 2008 FY_{107} 10 30.6 272°.31 1°.3/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.46	+12 37.6	1.512	2.382	15.1	21.2
10 8	2 40.82	+12 9.5	1.431	2.365	11.0	20.9
10 18	2 32.55	+11 31.7	1.372	2.348	6.3	20.6
10 28	2 22.51	+10 48.3	1.338	2.331	1.6	20.3
11 7	2 11.98	+10 5.2	1.332	2.313	4.7	20.4
11 17	2 2.33	+ 9 29.1	1.353	2.295	9.8	20.7
11 27	1 54.80	+ 9 6.0	1.398	2.277	14.4	20.9
12 7	1 50.16	+ 8 59.6	1.463	2.259	18.4	21.1

226533 2003 UE_{161} 10 30.6 318°.34 0°.8/29.9 17

9 28	2 43.30	+11 58.4	2.177	3.036	11.5	20.0
10 8	2 37.74	+11 53.7	2.101	3.031	8.3	19.8
10 18	2 30.42	+11 44.2	2.051	3.026	4.7	19.6
10 28	2 22.04	+11 31.9	2.029	3.021	1.1	19.3
11 7	2 13.43	+11 20.1	2.036	3.016	3.3	19.5
11 17	2 5.49	+11 11.8	2.071	3.012	7.0	19.7
11 27	1 59.02	+11 10.2	2.134	3.008	10.4	19.9
12 7	1 54.55	+11 17.5	2.220	3.004	13.3	20.1

152341 2005 UE_{67} 10 30.6 295°.78 5°.5/26.5 18

9 28	2 44.00	− 1 24.7	2.013	2.880	11.9	19.8
10 8	2 38.26	− 1 59.7	1.948	2.874	9.1	19.6
10 18	2 30.72	− 2 29.8	1.907	2.868	6.5	19.5
10 28	2 22.10	− 2 49.7	1.894	2.861	5.6	19.4
11 7	2 13.31	− 2 55.1	1.908	2.855	7.2	19.5
11 17	2 5.27	− 2 43.7	1.950	2.849	10.0	19.7
11 27	1 58.79	− 2 14.5	2.016	2.843	12.9	19.9
12 7	1 54.41	− 1 28.8	2.103	2.837	15.5	20.0

515549 2014 GM_{57} 10 30.6 66°.04 2°.4/28.7 18

9 28	2 42.71	+10 16.2	1.763	2.635	13.1	21.4
10 8	2 37.49	+ 9 24.3	1.703	2.640	9.4	21.2
10 18	2 30.32	+ 8 26.2	1.667	2.644	5.4	21.0
10 28	2 22.01	+ 7 27.5	1.658	2.648	2.4	20.8
11 7	2 13.60	+ 6 34.3	1.677	2.652	4.8	21.0
11 17	2 6.09	+ 5 52.2	1.724	2.657	8.8	21.2
11 27	2 0.34	+ 5 25.5	1.795	2.661	12.4	21.4
12 7	1 56.87	+ 5 15.8	1.888	2.665	15.5	21.7

29296 1993 PY_{5} 10 30.6 168°.63 3°.8/ 2.7 18 R

9 28	2 47.82	+26 38.9	1.982	2.796	14.3	18.8
10 8	2 41.26	+26 36.8	1.907	2.800	11.1	18.6
10 18	2 32.53	+26 16.9	1.855	2.803	7.7	18.4
10 28	2 22.48	+25 39.2	1.829	2.806	4.5	18.2
11 7	2 12.24	+24 46.8	1.832	2.809	4.3	18.2
11 17	2 2.92	+23 45.4	1.864	2.810	7.2	18.4
11 27	1 55.50	+22 42.4	1.923	2.811	10.6	18.6
12 7	1 50.57	+21 44.7	2.006	2.812	13.7	18.8

294872 2008 CZ_{201} 10 30.6 235°.19 0°.6/30.0 18

9 28	2 40.95	+15 27.8	2.129	2.986	11.8	20.7
10 8	2 36.03	+14 35.2	2.055	2.984	8.5	20.5
10 18	2 29.43	+13 32.6	2.007	2.982	4.8	20.3
10 28	2 21.84	+12 24.0	1.987	2.980	1.0	20.0
11 7	2 14.11	+11 14.9	1.996	2.977	3.3	20.2
11 17	2 7.09	+10 11.1	2.034	2.975	7.1	20.4
11 27	2 1.55	+ 9 17.8	2.099	2.972	10.6	20.6
12 7	1 57.97	+ 8 38.5	2.188	2.970	13.5	20.8

99098 2001 FK_{45} 10 30.6 240°.53 0°.0/30.5 17

9 28	2 41.62	+15 31.6	2.585	3.433	10.3	20.0
10 8	2 36.34	+15 6.5	2.499	3.422	7.5	19.8
10 18	2 29.57	+14 33.7	2.437	3.410	4.3	19.6
10 28	2 21.88	+13 55.6	2.405	3.398	0.9	19.3
11 7	2 13.98	+13 15.4	2.403	3.385	2.6	19.4
11 17	2 6.61	+12 37.0	2.431	3.373	6.0	19.6
11 27	2 0.47	+12 4.4	2.487	3.360	9.1	19.8
12 7	1 56.03	+11 40.5	2.567	3.346	11.8	20.0

423916 2006 SX_{335} 10 30.6 57°.97 3°.1/28.9 15

9 28	2 47.55	+ 9 25.3	1.186	2.071	17.2	20.6
10 8	2 41.44	+ 8 41.5	1.149	2.091	12.3	20.3
10 18	2 32.67	+ 7 52.3	1.134	2.112	7.1	20.1
10 28	2 22.49	+ 7 4.9	1.143	2.133	3.1	20.0
11 7	2 12.45	+ 6 26.8	1.178	2.154	6.1	20.2
11 17	2 3.95	+ 6 3.8	1.237	2.176	10.9	20.5
11 27	1 58.04	+ 5 59.4	1.320	2.197	15.2	20.9
12 7	1 55.19	+ 6 13.9	1.421	2.219	18.7	21.2

154381 2002 YN_{26} 10 30.6 31°.44 0°.7/30.9 18

9 28	2 44.94	+16 48.4	1.101	1.983	18.5	18.9
10 8	2 39.95	+16 37.3	1.057	1.996	13.5	18.7
10 18	2 32.00	+16 11.1	1.034	2.010	7.9	18.4
10 28	2 22.38	+15 33.8	1.033	2.025	1.9	18.1
11 7	2 12.72	+14 52.1	1.056	2.041	4.3	18.4
11 17	2 4.60	+14 14.1	1.104	2.058	9.9	18.7
11 27	1 59.19	+13 47.0	1.175	2.076	14.8	19.1
12 7	1 57.06	+13 35.2	1.264	2.095	18.7	19.4

874 Rotraut 10 30.6 198°.31 1°.9/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 39.82	+10 5.4	2.536	3.398	10.0	15.4
10 8	2 34.96	+ 9 8.9	2.465	3.397	7.1	15.2
10 18	2 28.73	+ 8 7.6	2.420	3.395	4.1	15.0
10 28	2 21.70	+ 7 5.6	2.404	3.393	2.0	14.9
11 7	2 14.56	+ 6 7.5	2.418	3.391	3.8	15.0
11 17	2 8.00	+ 5 17.7	2.462	3.388	6.9	15.2
11 27	2 2.64	+ 4 39.6	2.533	3.386	9.7	15.4
12 7	1 58.92	+ 4 15.2	2.627	3.383	12.2	15.6

485789 2012 DR_{17} 10 30.6 208°.83 4°.4/25.2 18

9 28	2 40.03	− 0 35.3	2.866	3.727	9.0	22.2
10 8	2 34.98	− 1 42.7	2.798	3.721	6.8	22.1
10 18	2 28.70	− 2 48.1	2.757	3.714	5.0	22.0
10 28	2 21.70	− 3 46.8	2.746	3.707	4.5	21.9
11 7	2 14.59	− 4 34.5	2.764	3.699	5.9	22.0
11 17	2 7.98	− 5 8.1	2.811	3.691	8.0	22.1
11 27	2 2.41	− 5 25.9	2.884	3.683	10.2	22.3
12 7	1 58.31	− 5 27.6	2.979	3.673	12.1	22.4

25422 Abigreene 10 30.6 140°.05 1°.3/29.7 18

9 28	2 47.80	+12 21.2	1.713	2.575	14.0	19.2
10 8	2 41.21	+11 48.9	1.654	2.584	10.1	19.0
10 18	2 32.47	+11 8.9	1.618	2.593	5.7	18.8
10 28	2 22.49	+10 25.6	1.610	2.602	1.6	18.5
11 7	2 12.42	+ 9 44.2	1.631	2.610	4.2	18.7
11 17	2 3.40	+ 9 10.3	1.679	2.618	8.5	19.0
11 27	1 56.35	+ 8 48.2	1.754	2.625	12.4	19.3
12 7	1 51.84	+ 8 40.5	1.850	2.631	15.6	19.5

518047 2015 XT_{100} 10 30.6 88°.12 0°.9/29.7 18

9 28	2 40.77	+14 14.4	2.220	3.079	11.3	21.5
10 8	2 35.76	+13 22.3	2.159	3.088	8.1	21.3
10 18	2 29.21	+12 22.4	2.123	3.098	4.6	21.1
10 28	2 21.81	+11 18.5	2.115	3.107	1.1	20.9
11 7	2 14.35	+10 15.9	2.137	3.117	3.3	21.0
11 17	2 7.63	+ 9 19.7	2.188	3.126	6.8	21.3
11 27	2 2.33	+ 8 34.1	2.266	3.136	10.0	21.5
12 7	1 58.87	+ 8 2.1	2.368	3.145	12.7	21.7

267914 2004 CN_{73} 10 30.6 300°.14 3°.5/ 1.5 18

9 28	2 47.10	+22 7.5	1.384	2.237	17.2	20.6
10 8	2 41.67	+22 26.2	1.306	2.225	13.2	20.3
10 18	2 33.22	+22 27.6	1.248	2.212	8.7	20.0
10 28	2 22.72	+22 10.9	1.214	2.200	4.3	19.7
11 7	2 11.63	+21 38.8	1.206	2.188	4.7	19.7
11 17	2 1.56	+20 57.6	1.224	2.176	9.3	19.9
11 27	1 53.93	+20 15.8	1.265	2.165	14.1	20.2
12 7	1 49.62	+19 41.8	1.327	2.154	18.2	20.4

365954 2012 BO_{10} 10 30.6 204°.66 5°.4/24.9 18

9 28	2 40.49	− 1 40.2	2.429	3.295	10.2	20.8
10 8	2 35.47	− 2 52.3	2.368	3.292	7.8	20.6
10 18	2 29.04	− 4 1.1	2.334	3.289	5.9	20.5
10 28	2 21.78	− 5 0.8	2.328	3.286	5.5	20.5
11 7	2 14.42	− 5 46.6	2.351	3.282	7.0	20.6
11 17	2 7.67	− 6 15.1	2.400	3.279	9.3	20.7
11 27	2 2.16	− 6 24.7	2.475	3.275	11.6	20.9
12 7	1 58.33	− 6 16.0	2.570	3.270	13.7	21.0

122174 2000 KC_{31} 10 30.6 168°.87 0°.2/30.4 18

9 28	2 46.42	+15 13.9	1.833	2.689	13.5	20.1
10 8	2 40.22	+14 46.4	1.765	2.692	9.8	19.9
10 18	2 31.93	+14 9.0	1.721	2.694	5.6	19.7
10 28	2 22.40	+13 24.9	1.704	2.697	1.1	19.4
11 7	2 12.71	+12 39.2	1.716	2.698	3.5	19.6
11 17	2 3.92	+11 57.2	1.757	2.700	7.8	19.8
11 27	1 56.98	+11 24.3	1.824	2.700	11.7	20.1
12 7	1 52.45	+11 4.0	1.913	2.701	14.9	20.3

436178 2009 WJ_{18} 10 30.6 158°.79 2°.2/ 1.4 17

9 28	2 46.80	+22 43.9	1.951	2.782	13.8	21.6
10 8	2 40.45	+22 22.5	1.880	2.788	10.4	21.4
10 18	2 32.04	+21 45.4	1.833	2.794	6.6	21.1
10 28	2 22.42	+20 54.4	1.813	2.799	3.0	20.9
11 7	2 12.67	+19 53.8	1.822	2.804	3.3	21.0
11 17	2 3.85	+18 49.7	1.860	2.808	7.0	21.2
11 27	1 56.87	+17 49.2	1.925	2.811	10.7	21.4
12 7	1 52.28	+16 57.9	2.014	2.814	13.9	21.7

269453 2009 SY_{270} 10 30.6 170°.51 3°.2/ 1.7 18

9 28	2 48.55	+23 3.3	1.679	2.514	15.5	20.9
10 8	2 42.12	+23 12.2	1.607	2.516	11.8	20.7
10 18	2 33.18	+23 4.6	1.558	2.518	7.7	20.4
10 28	2 22.68	+22 40.6	1.535	2.519	3.9	20.2
11 7	2 11.90	+22 3.4	1.539	2.520	4.1	20.2
11 17	2 2.15	+21 18.7	1.571	2.521	8.0	20.5
11 27	1 54.54	+20 33.8	1.630	2.521	12.0	20.7
12 7	1 49.75	+19 55.7	1.710	2.521	15.5	20.9

485873 2012 FK_{28} 10 30.6 174°.12 3°.9/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 40.17	+ 3 19.5	2.403	3.272	10.2	21.8
10 8	2 35.25	+ 2 17.8	2.341	3.273	7.5	21.7
10 18	2 28.92	+ 1 16.1	2.306	3.273	4.9	21.5
10 28	2 21.77	+ 0 19.6	2.299	3.274	3.9	21.4
11 7	2 14.53	− 0 27.1	2.320	3.274	5.6	21.6
11 17	2 7.92	− 1 0.2	2.371	3.275	8.2	21.7
11 27	2 2.55	− 1 17.4	2.446	3.275	10.9	21.9
12 7	1 58.88	− 1 18.4	2.544	3.275	13.1	22.1

201100 2002 GU_{128} 10 30.6 16°.41 2°.1/31.9 18

9 28	2 44.18	+20 39.4	1.478	2.335	16.0	19.4
10 8	2 39.08	+20 28.9	1.414	2.337	12.0	19.1
10 18	2 31.47	+20 1.8	1.371	2.340	7.5	18.9
10 28	2 22.33	+19 20.1	1.353	2.343	2.9	18.6
11 7	2 12.97	+18 29.0	1.362	2.346	3.8	18.7
11 17	2 4.70	+17 35.4	1.397	2.350	8.4	19.0
11 27	1 58.63	+16 47.3	1.457	2.354	12.7	19.2
12 7	1 55.39	+16 10.8	1.538	2.358	16.5	19.5

293047 2006 WK_{102} 10 30.6 51°.75 2°.2/29.5 18

9 28	2 48.02	+10 13.7	1.240	2.121	16.9	20.2
10 8	2 41.89	+ 9 56.2	1.194	2.134	12.2	20.0
10 18	2 33.03	+ 9 32.8	1.170	2.148	6.9	19.7
10 28	2 22.64	+ 9 8.5	1.170	2.162	2.3	19.5
11 7	2 12.22	+ 8 49.1	1.196	2.176	5.3	19.7
11 17	2 3.22	+ 8 39.7	1.248	2.191	10.3	20.0
11 27	1 56.78	+ 8 44.2	1.322	2.205	14.8	20.3
12 7	1 53.44	+ 9 3.9	1.416	2.221	18.5	20.6

21337 1997 BN_{9} 10 30.6 340°.46 1°.4/29.3 18

9 28	2 40.06	+13 29.4	1.906	2.773	12.5	18.2
10 8	2 35.57	+12 28.8	1.835	2.770	9.0	17.9
10 18	2 29.26	+11 18.7	1.790	2.767	5.1	17.7
10 28	2 21.87	+10 4.1	1.772	2.763	1.5	17.4
11 7	2 14.32	+ 8 51.5	1.782	2.761	4.0	17.6
11 17	2 7.54	+ 7 47.4	1.820	2.758	8.0	17.9
11 27	2 2.34	+ 6 57.1	1.884	2.756	11.7	18.1
12 7	1 59.24	+ 6 23.7	1.971	2.754	14.7	18.3

376401 2012 FJ_{44} 10 30.6 180°.90 0°.5/30.2 16

9 28	2 47.18	+15 17.9	1.741	2.598	14.0	22.4
10 8	2 40.87	+14 37.3	1.672	2.599	10.2	22.1
10 18	2 32.36	+13 45.4	1.626	2.600	5.8	21.9
10 28	2 22.52	+12 46.3	1.607	2.600	1.2	21.6
11 7	2 12.50	+11 45.9	1.618	2.600	3.8	21.8
11 17	2 3.44	+10 50.9	1.657	2.598	8.3	22.0
11 27	1 56.34	+10 7.2	1.721	2.597	12.4	22.3
12 7	1 51.76	+ 9 38.7	1.808	2.594	15.8	22.5

233320 2006 BT_{183} 10 30.6 169°.79 1°.7/29.1 18

9 28	2 44.45	+10 57.0	2.246	3.103	11.3	22.2
10 8	2 38.43	+10 11.7	2.178	3.108	8.1	22.0
10 18	2 30.78	+ 9 20.9	2.137	3.111	4.6	21.8
10 28	2 22.19	+ 8 28.5	2.124	3.114	1.8	21.6
11 7	2 13.49	+ 7 39.3	2.141	3.117	3.9	21.8
11 17	2 5.53	+ 6 57.8	2.188	3.118	7.3	22.0
11 27	1 59.03	+ 6 27.7	2.262	3.120	10.5	22.2
12 7	1 54.48	+ 6 11.2	2.359	3.120	13.2	22.4

403966 2012 BC_{74} 10 30.6 131°.63 5°.8/24.8 18

9 28	2 41.57	− 3 58.9	2.437	3.299	10.3	20.9
10 8	2 36.18	− 5 1.9	2.389	3.308	8.0	20.8
10 18	2 29.41	− 5 59.1	2.368	3.316	6.2	20.7
10 28	2 21.89	− 6 45.1	2.374	3.325	5.9	20.7
11 7	2 14.35	− 7 15.7	2.409	3.333	7.2	20.8
11 17	2 7.47	− 7 28.7	2.470	3.341	9.4	20.9
11 27	2 1.89	− 7 23.2	2.556	3.348	11.5	21.1
12 7	1 57.99	− 7 0.4	2.663	3.355	13.5	21.2

3641 Williams Bay 10 30.6 60°.18 1°.1/31.3 18

9 28	2 48.00	+16 28.3	1.960	2.806	13.1	16.0
10 8	2 41.26	+16 53.9	1.898	2.818	9.7	15.8
10 18	2 32.50	+17 11.3	1.861	2.830	5.8	15.6
10 28	2 22.56	+17 21.1	1.852	2.842	1.8	15.3
11 7	2 12.46	+17 25.1	1.872	2.855	3.1	15.4
11 17	2 3.27	+17 26.4	1.921	2.867	7.0	15.7
11 27	1 55.87	+17 28.7	1.997	2.880	10.5	16.0
12 7	1 50.83	+17 35.4	2.096	2.892	13.5	16.2

225444 2000 DN_{35} 10 30.6 306°.27 4°.2/26.6 18

9 28	2 39.86	+ 3 38.9	2.172	3.045	11.0	19.9
10 8	2 35.22	+ 2 35.7	2.105	3.039	8.1	19.7
10 18	2 28.99	+ 1 31.9	2.064	3.033	5.3	19.5
10 28	2 21.83	+ 0 33.2	2.051	3.027	4.2	19.4
11 7	2 14.52	− 0 15.1	2.066	3.022	6.0	19.5
11 17	2 7.86	− 0 48.6	2.109	3.016	8.9	19.7
11 27	2 2.55	− 1 4.9	2.176	3.011	11.8	19.9
12 7	1 59.10	− 1 3.3	2.265	3.006	14.3	20.1

44676 1999 RG_{187} 10 30.6 303°.34 1°.6/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.09	+17 59.0	1.328	2.194	17.0	18.3
10 8	2 41.70	+18 8.7	1.251	2.180	12.8	18.0
10 18	2 33.29	+18 4.8	1.195	2.167	7.8	17.7
10 28	2 22.80	+17 47.8	1.163	2.153	2.6	17.4
11 7	2 11.71	+17 21.6	1.156	2.141	4.2	17.4
11 17	2 1.64	+16 52.3	1.175	2.128	9.6	17.7
11 27	1 54.04	+16 27.5	1.218	2.116	14.7	18.0
12 7	1 49.76	+16 13.4	1.281	2.104	19.0	18.2

185094 2006 RD_{105} 10 30.6 120°.23 2°.5/28.7 18

9 28	2 44.25	+ 8 15.4	1.960	2.827	12.3	20.4
10 8	2 38.49	+ 7 45.1	1.898	2.831	8.8	20.2
10 18	2 30.90	+ 7 11.7	1.861	2.835	5.1	19.9
10 28	2 22.24	+ 6 39.4	1.851	2.839	2.5	19.8
11 7	2 13.46	+ 6 12.6	1.870	2.843	4.6	19.9
11 17	2 5.50	+ 5 55.2	1.917	2.847	8.2	20.2
11 27	1 59.18	+ 5 50.3	1.990	2.851	11.6	20.4
12 7	1 55.00	+ 5 58.9	2.084	2.854	14.5	20.6

516121 2015 UN_{56} 10 30.6 61°.78 1°.4/29.5 18

9 28	2 43.38	+11 37.5	1.880	2.746	12.7	21.5
10 8	2 37.91	+11 8.7	1.821	2.754	9.2	21.3
10 18	2 30.58	+10 33.9	1.787	2.763	5.2	21.1
10 28	2 22.17	+ 9 57.0	1.780	2.771	1.6	20.9
11 7	2 13.69	+ 9 22.6	1.801	2.780	3.9	21.1
11 17	2 6.07	+ 8 55.2	1.850	2.789	7.8	21.3
11 27	2 0.14	+ 8 38.8	1.926	2.798	11.4	21.6
12 7	1 56.41	+ 8 35.2	2.023	2.807	14.4	21.8

225290 1994 WK_{4} 10 30.6 300°.15 6°.1/26.9 18

9 28	2 45.27	+ 2 2.4	1.431	2.313	15.0	20.1
10 8	2 40.09	+ 1 11.1	1.352	2.289	11.3	19.9
10 18	2 32.25	+ 0 20.3	1.296	2.265	7.7	19.6
10 28	2 22.59	− 0 22.1	1.264	2.241	6.1	19.4
11 7	2 12.39	− 0 48.3	1.258	2.217	8.5	19.5
11 17	2 3.03	− 0 52.7	1.277	2.194	12.7	19.7
11 27	1 55.77	− 0 32.5	1.317	2.170	16.9	19.9
12 7	1 51.43	+ 0 11.5	1.377	2.147	20.6	20.1

50441 2000 DD_{30} 10 30.6 34°.34 3°.1/28.2 18

9 28	2 42.54	+ 8 22.8	1.772	2.646	13.0	19.4
10 8	2 37.42	+ 7 26.0	1.710	2.647	9.4	19.2
10 18	2 30.36	+ 6 24.5	1.672	2.648	5.5	19.0
10 28	2 22.14	+ 5 24.4	1.662	2.649	3.1	18.8
11 7	2 13.80	+ 4 31.9	1.680	2.650	5.4	19.0
11 17	2 6.32	+ 3 52.5	1.724	2.652	9.2	19.2
11 27	2 0.58	+ 3 30.0	1.794	2.653	12.8	19.4
12 7	1 57.09	+ 3 25.6	1.884	2.655	15.8	19.7

113810 2002 TG_{210} 10 30.6 77°.31 0°.0/30.5 18

9 28	2 46.97	+14 20.9	1.813	2.670	13.6	19.2
10 8	2 40.63	+14 24.0	1.752	2.679	9.9	19.0
10 18	2 32.19	+14 19.4	1.714	2.687	5.7	18.8
10 28	2 22.53	+14 9.1	1.704	2.696	1.2	18.5
11 7	2 12.72	+13 56.5	1.722	2.705	3.3	18.7
11 17	2 3.86	+13 45.4	1.769	2.714	7.6	19.0
11 27	1 56.87	+13 39.8	1.842	2.723	11.4	19.2
12 7	1 52.31	+13 42.8	1.937	2.732	14.5	19.4

411203 2010 LL_{35} 10 30.6 136°.29 1°.0/31.6 18

9 28	2 44.19	+20 33.3	2.292	3.126	11.9	21.7
10 8	2 38.22	+19 45.3	2.226	3.140	8.8	21.5
10 18	2 30.65	+18 44.7	2.186	3.152	5.3	21.3
10 28	2 22.19	+17 34.5	2.174	3.164	1.7	21.1
11 7	2 13.72	+16 19.8	2.193	3.176	2.6	21.2
11 17	2 6.06	+15 6.2	2.242	3.187	6.2	21.5
11 27	1 59.90	+13 59.6	2.319	3.198	9.5	21.7
12 7	1 55.71	+13 4.1	2.421	3.207	12.2	21.9

443041 2013 EM_{94} 10 30.6 337°.41 9°.0/24.9 18

9 28	2 42.31	− 5 15.5	1.398	2.282	15.2	19.8
10 8	2 37.76	− 6 19.0	1.339	2.268	12.1	19.5
10 18	2 30.77	− 7 12.9	1.302	2.255	9.7	19.4
10 28	2 22.26	− 7 47.6	1.288	2.244	9.2	19.3
11 7	2 13.47	− 7 55.9	1.298	2.233	11.1	19.4
11 17	2 5.67	− 7 34.6	1.331	2.223	14.3	19.6
11 27	1 59.94	− 6 44.1	1.385	2.214	17.6	19.8
12 7	1 56.95	− 5 28.6	1.457	2.206	20.5	20.0

168408 1998 HY_{11} 10 30.6 235°.13 0°.4/30.3 18

9 28	2 47.57	+14 50.5	1.626	2.486	14.7	21.2
10 8	2 41.47	+14 25.7	1.547	2.477	10.8	20.9
10 18	2 32.90	+13 50.0	1.492	2.467	6.2	20.6
10 28	2 22.72	+13 6.5	1.463	2.456	1.3	20.3
11 7	2 12.16	+12 20.6	1.463	2.445	3.9	20.4
11 17	2 2.52	+11 38.7	1.490	2.434	8.9	20.7
11 27	1 54.92	+11 6.9	1.542	2.422	13.3	20.9
12 7	1 50.08	+10 49.5	1.615	2.409	17.0	21.2

428630 2008 FZ_{68} 10 30.6 171°.11 1°.2/29.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.16	+12 48.3	1.808	2.668	13.5	22.6
10 8	2 40.78	+12 13.4	1.741	2.671	9.7	22.4
10 18	2 32.29	+11 30.4	1.699	2.674	5.5	22.1
10 28	2 22.56	+10 43.4	1.684	2.676	1.5	21.9
11 7	2 12.67	+ 9 57.6	1.698	2.678	4.0	22.1
11 17	2 3.72	+ 9 18.6	1.740	2.679	8.3	22.3
11 27	1 56.62	+ 8 51.0	1.809	2.679	12.1	22.6
12 7	1 51.96	+ 8 37.8	1.899	2.679	15.3	22.8

217339 2004 RD_{153} 10 30.6 359°.17 1°.0/31.5 18

9 28	2 40.87	+19 34.4	1.894	2.746	13.3	19.8
10 8	2 36.24	+18 57.7	1.822	2.745	9.8	19.5
10 18	2 29.70	+18 7.1	1.774	2.744	5.9	19.3
10 28	2 22.03	+17 5.8	1.753	2.744	1.8	19.0
11 7	2 14.19	+15 59.1	1.760	2.744	3.0	19.1
11 17	2 7.16	+14 53.4	1.795	2.744	7.1	19.4
11 27	2 1.79	+13 55.2	1.857	2.745	10.9	19.6
12 7	1 58.62	+13 9.3	1.941	2.746	14.1	19.8

215067 2009 DY_{126} 10 30.6 204°.66 0°.3/30.3 18

9 28	2 43.17	+15 37.4	1.978	2.835	12.6	20.9
10 8	2 37.81	+14 59.1	1.906	2.833	9.2	20.7
10 18	2 30.57	+14 10.7	1.858	2.831	5.3	20.4
10 28	2 22.21	+13 15.6	1.837	2.830	1.1	20.1
11 7	2 13.68	+12 19.0	1.845	2.827	3.3	20.3
11 17	2 5.93	+11 26.6	1.882	2.825	7.4	20.6
11 27	1 59.80	+10 43.6	1.946	2.823	11.1	20.8
12 7	1 55.84	+10 13.8	2.032	2.820	14.2	21.0

119834 2002 CK_{3} 10 30.6 305°.52 7°.1/24.7 18

9 28	2 42.12	− 5 0.0	1.976	2.845	12.1	19.7
10 8	2 36.98	− 6 3.5	1.918	2.838	9.6	19.5
10 18	2 30.06	− 6 59.8	1.884	2.832	7.6	19.4
10 28	2 22.10	− 7 42.2	1.877	2.827	7.2	19.4
11 7	2 14.00	− 8 5.3	1.896	2.821	8.8	19.4
11 17	2 6.65	− 8 6.3	1.940	2.815	11.3	19.6
11 27	2 0.84	− 7 44.7	2.008	2.809	13.9	19.8
12 7	1 57.08	− 7 2.5	2.095	2.804	16.2	19.9

418002 2007 TR_{418} 10 30.6 256°.56 0°.1/30.7 17

9 28	2 39.16	+17 0.3	2.637	3.484	10.1	21.3
10 8	2 34.53	+16 20.3	2.560	3.482	7.4	21.1
10 18	2 28.55	+15 31.5	2.509	3.481	4.3	20.9
10 28	2 21.78	+14 36.8	2.486	3.479	0.9	20.6
11 7	2 14.89	+13 40.0	2.494	3.477	2.5	20.8
11 17	2 8.56	+12 45.4	2.531	3.475	5.7	21.0
11 27	2 3.40	+11 57.3	2.597	3.473	8.7	21.2
12 7	1 59.85	+11 18.9	2.687	3.471	11.2	21.3

364542 2007 GF_{1} 10 30.6 189°.12 2°.7/27.9 18

9 28	2 40.72	+ 8 26.4	2.253	3.120	10.9	21.0
10 8	2 35.78	+ 7 24.9	2.186	3.120	7.8	20.8
10 18	2 29.31	+ 6 19.3	2.145	3.119	4.6	20.6
10 28	2 21.94	+ 5 14.6	2.132	3.119	2.7	20.5
11 7	2 14.46	+ 4 16.0	2.149	3.118	4.6	20.6
11 17	2 7.64	+ 3 28.2	2.195	3.117	7.8	20.8
11 27	2 2.18	+ 2 54.9	2.267	3.116	10.8	21.0
12 7	1 58.53	+ 2 37.4	2.361	3.115	13.4	21.2

139526 2001 QU_{4} 10 30.6 19°.27 9°.3/23.5 18

9 28	2 39.53	− 4 16.1	1.367	2.257	15.0	18.9
10 8	2 35.52	− 6 6.1	1.332	2.264	11.9	18.7
10 18	2 29.34	− 7 46.0	1.320	2.273	9.7	18.6
10 28	2 21.94	− 9 4.8	1.332	2.282	9.5	18.6
11 7	2 14.54	− 9 54.2	1.368	2.293	11.5	18.8
11 17	2 8.24	−10 10.7	1.426	2.305	14.4	19.0
11 27	2 3.94	− 9 55.0	1.505	2.317	17.3	19.2
12 7	2 2.13	− 9 11.4	1.600	2.330	19.7	19.4

329747 2004 BS_{74} 10 30.6 169°.03 10°.0/21.1 18

9 28	2 46.04	−13 57.1	2.041	2.882	12.9	20.4
10 8	2 39.68	−15 41.5	2.003	2.888	11.1	20.3
10 18	2 31.53	−17 11.1	1.990	2.892	10.1	20.3
10 28	2 22.40	−18 17.6	2.002	2.896	10.3	20.3
11 7	2 13.23	−18 55.8	2.040	2.899	11.7	20.4
11 17	2 4.94	−19 3.7	2.101	2.901	13.5	20.5
11 27	1 58.32	−18 42.7	2.184	2.902	15.4	20.7
12 7	1 53.84	−17 56.9	2.282	2.903	17.1	20.8

333395 2002 TQ_{59} 10 30.6 99°.11 14°.8/11.7 17

9 28	2 52.81	+47 21.3	1.119	1.871	26.4	19.9
10 8	2 47.18	+48 1.6	1.059	1.876	23.5	19.7
10 18	2 36.88	+47 54.2	1.010	1.882	20.2	19.5
10 28	2 23.59	+46 48.6	0.978	1.887	17.1	19.3
11 7	2 9.99	+44 43.8	0.965	1.891	15.0	19.2
11 17	1 58.75	+41 50.8	0.974	1.896	15.1	19.3
11 27	1 51.73	+38 31.8	1.005	1.901	17.2	19.4
12 7	1 49.53	+35 11.1	1.056	1.905	20.3	19.6

405307 2003 UH_{33} 10 30.6 14°.42 2°.4/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 39.56	+10 11.7	2.012	2.883	11.8	20.7
10 8	2 35.09	+ 9 7.5	1.949	2.885	8.4	20.5
10 18	2 28.96	+ 7 57.5	1.911	2.887	4.9	20.3
10 28	2 21.88	+ 6 47.0	1.901	2.890	2.4	20.2
11 7	2 14.69	+ 5 42.1	1.919	2.892	4.6	20.3
11 17	2 8.23	+ 4 48.3	1.966	2.895	8.1	20.5
11 27	2 3.26	+ 4 9.8	2.038	2.898	11.4	20.8
12 7	2 0.23	+ 3 48.3	2.132	2.902	14.2	21.0

98789 2000 YF_{99} 10 30.6 38°.34 9°.2/ 7.3 18

9 28	2 46.43	+38 12.9	1.504	2.285	19.5	18.9
10 8	2 41.10	+38 40.9	1.443	2.295	16.5	18.7
10 18	2 32.80	+38 37.8	1.400	2.306	13.3	18.5
10 28	2 22.70	+38 0.0	1.378	2.317	10.5	18.4
11 7	2 12.41	+36 49.7	1.381	2.329	9.2	18.4
11 17	2 3.52	+35 14.5	1.408	2.341	10.3	18.4
11 27	1 57.29	+33 26.8	1.459	2.354	12.9	18.6
12 7	1 54.35	+31 39.3	1.533	2.367	15.8	18.9

102856 1999 VQ_{223} 10 30.6 239°.32 5°.0/26.1 18

9 28	2 42.57	− 1 40.7	2.475	3.336	10.2	19.5
10 8	2 37.03	− 2 22.7	2.405	3.327	7.8	19.4
10 18	2 30.02	− 3 0.8	2.360	3.317	5.7	19.2
10 28	2 22.11	− 3 30.5	2.344	3.307	5.0	19.2
11 7	2 14.05	− 3 47.8	2.357	3.297	6.4	19.2
11 17	2 6.56	− 3 50.2	2.398	3.287	8.8	19.4
11 27	2 0.33	− 3 36.5	2.464	3.276	11.3	19.5
12 7	1 55.83	− 3 7.3	2.552	3.266	13.5	19.7

174358 2002 TU_{287} 10 30.6 322°.07 4°.2/ 2.9 18

9 28	2 40.64	+27 31.2	1.565	2.401	16.4	19.4
10 8	2 36.74	+27 5.9	1.476	2.381	12.9	19.1
10 18	2 30.32	+26 15.7	1.408	2.363	9.0	18.8
10 28	2 22.22	+25 1.0	1.364	2.344	5.2	18.6
11 7	2 13.69	+23 26.6	1.346	2.327	4.7	18.5
11 17	2 6.04	+21 41.5	1.355	2.309	8.3	18.7
11 27	2 0.47	+19 57.0	1.389	2.293	12.7	18.9
12 7	1 57.72	+18 23.5	1.445	2.278	16.7	19.1

137188 1999 JE_{85} 10 30.6 244°.91 7°.8/23.9 18

9 28	2 44.56	− 9 12.3	2.196	3.049	11.7	19.9
10 8	2 38.63	−10 8.2	2.133	3.038	9.6	19.8
10 18	2 30.99	−10 54.2	2.095	3.027	8.1	19.7
10 28	2 22.32	−11 24.2	2.084	3.015	7.9	19.7
11 7	2 13.49	−11 33.6	2.099	3.003	9.3	19.7
11 17	2 5.35	−11 20.3	2.140	2.991	11.4	19.8
11 27	1 58.69	−10 44.5	2.205	2.979	13.7	20.0
12 7	1 54.00	− 9 48.8	2.289	2.966	15.8	20.1

55837 1996 JV_{2} 10 30.6 47°.14 2°.3/29.6 18

9 28	2 50.24	+ 8 15.5	1.293	2.170	16.6	18.1
10 8	2 43.47	+ 8 23.0	1.246	2.184	12.0	17.9
10 18	2 33.98	+ 8 28.1	1.221	2.198	6.9	17.7
10 28	2 22.94	+ 8 34.2	1.221	2.212	2.5	17.4
11 7	2 11.87	+ 8 45.0	1.248	2.227	5.2	17.7
11 17	2 2.20	+ 9 3.6	1.300	2.242	10.1	18.0
11 27	1 55.07	+ 9 32.5	1.377	2.258	14.5	18.3
12 7	1 51.06	+10 12.4	1.473	2.274	18.0	18.6

491547 2012 LJ_{21} 10 30.6 207°.22 4°.3/26.6 17

9 28	2 43.47	− 1 42.1	2.819	3.673	9.3	22.2
10 8	2 37.50	− 2 8.0	2.749	3.669	7.1	22.0
10 18	2 30.22	− 2 29.9	2.707	3.664	5.1	21.9
10 28	2 22.16	− 2 44.3	2.694	3.659	4.3	21.9
11 7	2 13.99	− 2 48.4	2.710	3.653	5.6	21.9
11 17	2 6.36	− 2 40.2	2.756	3.647	7.7	22.1
11 27	1 59.87	− 2 19.0	2.828	3.641	10.0	22.2
12 7	1 54.93	− 1 45.3	2.923	3.634	12.0	22.4

150510 2000 QQ_{247} 10 30.6 80°.78 0°.0/30.7 18

9 28	2 43.10	+16 16.7	1.964	2.819	12.7	20.3
10 8	2 37.72	+15 48.4	1.899	2.826	9.3	20.1
10 18	2 30.51	+15 10.1	1.859	2.832	5.3	19.8
10 28	2 22.23	+14 25.0	1.846	2.839	1.1	19.6
11 7	2 13.84	+13 37.8	1.862	2.845	3.1	19.7
11 17	2 6.28	+12 53.5	1.906	2.851	7.1	20.0
11 27	2 0.36	+12 17.3	1.977	2.858	10.7	20.2
12 7	1 56.60	+11 52.6	2.071	2.864	13.8	20.5

399728 2004 XT_{124} 10 30.6 5°.07 0°.2/30.5 16

9 28	2 40.09	+14 7.0	1.329	2.213	15.8	20.1
10 8	2 36.25	+14 2.7	1.273	2.214	11.5	19.9
10 18	2 29.95	+13 48.6	1.238	2.216	6.6	19.6
10 28	2 22.14	+13 28.3	1.227	2.220	1.3	19.3
11 7	2 14.12	+13 6.7	1.242	2.226	4.0	19.5
11 17	2 7.17	+12 49.3	1.281	2.233	9.0	19.8
11 27	2 2.38	+12 41.3	1.343	2.242	13.5	20.1
12 7	2 0.36	+12 46.0	1.426	2.252	17.2	20.3

43911 1995 WF_{22} 10 30.6 169°.99 2°.4/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 44.83	+26 44.9	2.166	2.979	13.2	18.9
10 8	2 38.88	+25 36.3	2.086	2.983	10.2	18.7
10 18	2 31.12	+24 7.6	2.031	2.986	6.6	18.5
10 28	2 22.36	+22 21.9	2.004	2.988	3.2	18.3
11 7	2 13.54	+20 25.4	2.008	2.990	3.1	18.3
11 17	2 5.61	+18 26.1	2.042	2.991	6.5	18.5
11 27	1 59.36	+16 32.9	2.107	2.992	10.0	18.7
12 7	1 55.25	+14 52.8	2.196	2.992	13.0	19.0

415916 2001 UP_{132} 10 30.6 20°.00 1°.5/30.0 17

9 28	2 45.22	+11 24.8	0.840	1.745	20.5	19.5
10 8	2 40.80	+11 27.4	0.801	1.752	14.9	19.3
10 18	2 32.82	+11 21.4	0.780	1.762	8.5	19.0
10 28	2 22.75	+11 11.6	0.780	1.773	2.1	18.6
11 7	2 12.58	+11 4.6	0.802	1.785	5.7	18.9
11 17	2 4.22	+11 6.3	0.845	1.800	11.9	19.3
11 27	1 59.09	+11 21.6	0.908	1.815	17.3	19.7
12 7	1 57.77	+11 52.2	0.988	1.832	21.7	20.0

477804 2011 CK_{103} 10 30.6 163°.11 4°.6/ 2.9 18

9 28	2 48.48	+27 3.8	1.702	2.522	16.0	21.8
10 8	2 42.15	+27 13.5	1.630	2.525	12.5	21.6
10 18	2 33.29	+27 3.4	1.579	2.528	8.7	21.4
10 28	2 22.86	+26 32.6	1.554	2.530	5.4	21.2
11 7	2 12.14	+25 44.1	1.556	2.532	5.0	21.2
11 17	2 2.48	+24 44.1	1.585	2.533	8.1	21.4
11 27	1 55.01	+23 41.2	1.641	2.535	11.8	21.6
12 7	1 50.38	+22 43.5	1.720	2.535	15.2	21.8

120826 1998 HH_{112} 10 30.6 173°.78 6°.7/25.2 18

9 28	2 45.17	− 3 58.3	2.003	2.866	12.2	19.7
10 8	2 39.11	− 5 2.0	1.949	2.869	9.5	19.6
10 18	2 31.27	− 5 59.1	1.920	2.870	7.3	19.4
10 28	2 22.42	− 6 43.0	1.918	2.872	6.8	19.4
11 7	2 13.48	− 7 8.6	1.944	2.873	8.4	19.5
11 17	2 5.37	− 7 13.0	1.996	2.873	10.9	19.7
11 27	1 58.88	− 6 55.9	2.072	2.873	13.6	19.9
12 7	1 54.49	− 6 19.1	2.168	2.873	15.8	20.0

209158 2003 UJ_{29} 10 30.6 352°.35 0°.3/30.5 18

9 28	2 37.88	+16 8.7	1.135	2.027	17.4	19.7
10 8	2 35.08	+15 33.7	1.072	2.016	12.7	19.4
10 18	2 29.49	+14 42.2	1.029	2.008	7.4	19.1
10 28	2 22.10	+13 39.5	1.008	2.001	1.5	18.7
11 7	2 14.35	+12 34.2	1.012	1.996	4.5	18.9
11 17	2 7.73	+11 35.7	1.038	1.993	10.3	19.2
11 27	2 3.50	+10 52.8	1.087	1.991	15.4	19.5
12 7	2 2.38	+10 30.3	1.154	1.992	19.7	19.8

443228 2014 DZ_{108} 10 30.6 129°.45 2°.3/28.9 18

9 28	2 44.95	+ 9 16.1	1.931	2.796	12.5	21.7
10 8	2 39.03	+ 8 41.2	1.871	2.803	9.0	21.5
10 18	2 31.26	+ 8 2.2	1.835	2.810	5.2	21.3
10 28	2 22.42	+ 7 23.3	1.827	2.817	2.3	21.1
11 7	2 13.49	+ 6 49.4	1.848	2.823	4.5	21.3
11 17	2 5.42	+ 6 24.7	1.897	2.829	8.2	21.5
11 27	1 59.02	+ 6 12.6	1.972	2.835	11.6	21.7
12 7	1 54.81	+ 6 14.5	2.070	2.840	14.5	22.0

331033 2009 VR_{41} 10 30.6 304°.57 1°.1/31.8 17

9 28	2 39.87	+21 29.9	2.120	2.963	12.4	20.5
10 8	2 35.48	+20 34.4	2.029	2.946	9.3	20.3
10 18	2 29.32	+19 22.6	1.962	2.929	5.7	20.1
10 28	2 22.04	+17 57.8	1.922	2.913	1.9	19.8
11 7	2 14.51	+16 25.4	1.912	2.896	2.8	19.8
11 17	2 7.64	+14 52.5	1.931	2.880	6.8	20.0
11 27	2 2.25	+13 26.4	1.978	2.864	10.5	20.2
12 7	1 58.88	+12 13.2	2.048	2.848	13.7	20.4

19944 1981 EF_{31} 10 30.6 335°.40 2°.9/28.8 18

9 28	2 44.40	+10 36.6	1.281	2.166	16.2	18.5
10 8	2 39.48	+ 9 39.9	1.220	2.162	11.8	18.2
10 18	2 31.87	+ 8 34.1	1.181	2.159	6.8	17.9
10 28	2 22.59	+ 7 26.3	1.166	2.156	3.0	17.7
11 7	2 13.06	+ 6 25.5	1.177	2.154	6.0	17.9
11 17	2 4.68	+ 5 39.5	1.213	2.151	11.0	18.2
11 27	1 58.65	+ 5 14.1	1.271	2.149	15.6	18.4
12 7	1 55.62	+ 5 11.3	1.348	2.148	19.5	18.7

9058 1992 JB 10 30.6 269°.07 0°.3/30.8 18

9 28	2 53.69	+23 15.2	1.003	1.864	21.6	20.2
10 8	2 48.08	+21 30.9	0.901	1.829	16.6	19.8
10 18	2 37.91	+18 57.9	0.818	1.791	10.2	19.3
10 28	2 24.07	+15 36.1	0.758	1.750	2.4	18.7
11 7	2 8.53	+11 39.5	0.724	1.708	6.3	18.7
11 17	1 53.85	+ 7 35.8	0.717	1.663	15.1	19.0
11 27	1 42.49	+ 3 56.7	0.732	1.617	23.2	19.3
12 7	1 35.89	+ 1 3.0	0.763	1.568	30.1	19.5

314357 2005 TA_{161} 10 30.6 358°.78 1°.0/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 41.57	+19 15.2	1.788	2.643	13.8	20.6
10 8	2 36.89	+18 45.9	1.718	2.642	10.2	20.3
10 18	2 30.17	+18 2.8	1.671	2.641	6.1	20.1
10 28	2 22.23	+17 8.7	1.650	2.641	1.9	19.8
11 7	2 14.09	+16 8.9	1.656	2.641	3.1	19.9
11 17	2 6.81	+15 9.8	1.691	2.641	7.4	20.2
11 27	2 1.28	+14 18.0	1.751	2.642	11.3	20.4
12 7	1 58.08	+13 38.2	1.834	2.643	14.7	20.7

99803 2002 LL_{13} 10 30.6 79°.05 3°.2/ 2.7 18

9 28	2 42.59	+26 12.0	2.223	3.041	12.8	19.3
10 8	2 37.31	+25 57.6	2.153	3.049	9.9	19.1
10 18	2 30.28	+25 27.4	2.106	3.057	6.7	18.9
10 28	2 22.24	+24 42.5	2.086	3.065	3.9	18.8
11 7	2 14.09	+23 46.2	2.094	3.073	3.6	18.8
11 17	2 6.72	+22 43.8	2.132	3.081	6.2	19.0
11 27	2 0.91	+21 41.4	2.197	3.089	9.3	19.2
12 7	1 57.15	+20 44.7	2.287	3.097	12.1	19.4

379931 2012 LQ_{2} 10 30.6 77°.49 2°.2/ 1.2 18

9 28	2 47.09	+22 21.3	1.427	2.277	16.9	20.6
10 8	2 41.11	+21 51.8	1.375	2.294	12.7	20.3
10 18	2 32.62	+21 2.7	1.345	2.311	7.9	20.1
10 28	2 22.72	+19 57.4	1.340	2.328	3.2	19.9
11 7	2 12.84	+18 42.7	1.361	2.345	3.8	20.0
11 17	2 4.28	+17 27.3	1.410	2.362	8.4	20.3
11 27	1 58.10	+16 20.2	1.484	2.379	12.7	20.6
12 7	1 54.82	+15 27.7	1.579	2.396	16.3	20.9

488680 2003 UO_{299} 10 30.6 347°.04 1°.3/29.4 18

9 28	2 39.05	+13 58.3	1.939	2.807	12.3	20.6
10 8	2 34.88	+12 52.5	1.868	2.802	8.9	20.4
10 18	2 28.95	+11 36.6	1.822	2.798	5.0	20.2
10 28	2 21.97	+10 15.9	1.803	2.795	1.5	19.9
11 7	2 14.83	+ 8 56.9	1.813	2.792	3.9	20.1
11 17	2 8.43	+ 7 46.4	1.851	2.789	7.9	20.3
11 27	2 3.55	+ 6 49.8	1.915	2.787	11.5	20.5
12 7	2 0.71	+ 6 10.5	2.001	2.785	14.5	20.7

186809 2004 EJ_{82} 10 30.6 298°.00 5°.1/27.5 18

9 28	2 45.09	+ 4 37.8	1.405	2.288	15.2	20.0
10 8	2 39.84	+ 3 41.8	1.340	2.279	11.2	19.7
10 18	2 32.04	+ 2 43.9	1.297	2.270	7.1	19.5
10 28	2 22.65	+ 1 52.1	1.280	2.262	5.1	19.3
11 7	2 12.95	+ 1 14.0	1.288	2.253	7.6	19.5
11 17	2 4.26	+ 0 55.4	1.322	2.245	11.8	19.7
11 27	1 57.74	+ 0 59.4	1.378	2.237	15.9	19.9
12 7	1 54.06	+ 1 25.8	1.453	2.229	19.4	20.1

515355 2013 CX_{96} 10 30.6 216°.73 1°.2/31.6 18

9 28	2 44.32	+19 14.9	2.221	3.061	12.0	22.0
10 8	2 38.60	+18 58.3	2.139	3.055	9.0	21.8
10 18	2 31.08	+18 30.5	2.082	3.049	5.4	21.6
10 28	2 22.43	+17 53.2	2.052	3.043	1.8	21.3
11 7	2 13.56	+17 9.9	2.052	3.036	2.8	21.4
11 17	2 5.37	+16 25.3	2.082	3.029	6.5	21.6
11 27	1 58.67	+15 44.5	2.139	3.021	10.0	21.8
12 7	1 54.04	+15 11.8	2.220	3.014	13.0	22.0

322660 1999 RT_{161} 10 30.6 47°.54 4°.7/ 2.2 18 R

9 28	2 50.02	+24 4.7	1.124	1.980	20.1	19.8
10 8	2 43.83	+24 33.8	1.081	2.000	15.4	19.6
10 18	2 34.41	+24 40.1	1.058	2.020	10.3	19.4
10 28	2 23.13	+24 22.9	1.058	2.041	5.7	19.2
11 7	2 11.84	+23 46.7	1.081	2.062	5.5	19.3
11 17	2 2.29	+23 0.0	1.130	2.084	9.7	19.6
11 27	1 55.75	+22 13.1	1.201	2.106	14.2	19.9
12 7	1 52.81	+21 34.6	1.292	2.129	18.1	20.2

199249 2006 AZ_{101} 10 30.6 115°.42 3°.9/ 3.7 18

9 28	2 44.14	+29 1.3	2.589	3.383	11.9	20.5
10 8	2 38.27	+29 5.9	2.518	3.395	9.4	20.4
10 18	2 30.78	+28 55.4	2.471	3.407	6.8	20.2
10 28	2 22.36	+28 30.1	2.451	3.418	4.5	20.1
11 7	2 13.84	+27 51.9	2.460	3.430	4.1	20.1
11 17	2 6.02	+27 4.7	2.499	3.441	5.9	20.2
11 27	1 59.63	+26 13.7	2.566	3.452	8.4	20.4
12 7	1 55.15	+25 24.2	2.658	3.462	10.8	20.6

10068 Dodoens 10 30.6 86°.39 0°.5/31.0 18

9 28	2 45.73	+18 39.3	1.488	2.348	15.8	17.5
10 8	2 40.06	+17 53.2	1.433	2.360	11.6	17.3
10 18	2 32.01	+16 51.3	1.399	2.372	6.8	17.0
10 28	2 22.62	+15 38.3	1.392	2.384	1.7	16.7
11 7	2 13.19	+14 21.5	1.412	2.396	3.7	16.9
11 17	2 4.96	+13 9.3	1.459	2.407	8.5	17.2
11 27	1 58.91	+12 9.4	1.531	2.419	12.8	17.5
12 7	1 55.60	+11 26.6	1.625	2.430	16.4	17.8

518061 2015 XZ_{292} 10 30.6 80°.47 0°.7/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 41.80	+18 37.4	2.213	3.058	11.9	21.5
10 8	2 36.64	+18 6.6	2.148	3.068	8.7	21.3
10 18	2 29.87	+17 25.0	2.108	3.077	5.2	21.1
10 28	2 22.17	+16 35.5	2.095	3.087	1.5	20.8
11 7	2 14.40	+15 42.2	2.112	3.096	2.7	21.0
11 17	2 7.37	+14 50.0	2.158	3.105	6.3	21.2
11 27	2 1.81	+14 4.0	2.232	3.115	9.6	21.4
12 7	1 58.17	+13 28.0	2.329	3.124	12.4	21.6

254435 2005 AV_{11} 10 30.6 247°.74 0°.7/31.0 18

9 28	2 48.88	+16 43.5	1.521	2.379	15.6	21.2
10 8	2 42.70	+16 36.8	1.442	2.368	11.6	21.0
10 18	2 33.79	+16 17.7	1.385	2.357	6.9	20.7
10 28	2 23.06	+15 48.2	1.353	2.345	1.8	20.3
11 7	2 11.85	+15 12.7	1.349	2.333	3.8	20.4
11 17	2 1.58	+14 37.1	1.373	2.321	9.0	20.7
11 27	1 53.54	+14 8.4	1.421	2.308	13.7	21.0
12 7	1 48.50	+13 51.7	1.490	2.295	17.7	21.2

143914 2003 YA_{75} 10 30.6 268°.24 1°.8/31.7 18

9 28	2 47.57	+19 40.0	1.568	2.419	15.6	20.3
10 8	2 41.81	+19 34.3	1.480	2.401	11.8	20.1
10 18	2 33.33	+19 13.5	1.415	2.383	7.3	19.8
10 28	2 22.97	+18 38.4	1.375	2.365	2.7	19.4
11 7	2 12.05	+17 53.1	1.362	2.346	3.8	19.5
11 17	2 1.97	+17 3.9	1.377	2.327	8.7	19.7
11 27	1 54.03	+16 18.8	1.416	2.308	13.4	19.9
12 7	1 49.06	+15 44.5	1.477	2.288	17.5	20.2

255089 2005 UU_{42} 10 30.6 0°.37 1°.3/29.7 18

9 28	2 39.33	+13 54.7	1.465	2.345	14.8	19.7
10 8	2 35.55	+13 7.1	1.403	2.343	10.7	19.5
10 18	2 29.52	+12 8.4	1.363	2.341	6.1	19.2
10 28	2 22.13	+11 4.0	1.349	2.341	1.5	18.9
11 7	2 14.54	+10 1.3	1.360	2.342	4.4	19.1
11 17	2 7.91	+ 9 7.8	1.398	2.344	9.1	19.4
11 27	2 3.24	+ 8 29.5	1.459	2.347	13.4	19.6
12 7	2 1.11	+ 8 9.7	1.541	2.350	17.0	19.9

509910 2009 FY_{3} 10 30.6 136°.80 4°.1/ 3.2 18

9 28	2 48.72	+28 1.7	2.430	3.224	12.5	21.9
10 8	2 41.69	+28 24.9	2.359	3.237	9.9	21.8
10 18	2 32.80	+28 33.3	2.312	3.249	7.1	21.6
10 28	2 22.81	+28 26.0	2.293	3.260	4.7	21.5
11 7	2 12.64	+28 4.6	2.303	3.271	4.4	21.5
11 17	2 3.26	+27 32.5	2.342	3.282	6.4	21.6
11 27	1 55.49	+26 54.9	2.410	3.292	9.0	21.8
12 7	1 49.87	+26 17.4	2.503	3.301	11.5	22.0

493597 2015 MQ_{76} 10 30.6 355°.54 0°.2/30.5 18

9 28	2 41.36	+16 35.5	1.435	2.309	15.5	20.8
10 8	2 37.11	+15 51.8	1.370	2.305	11.3	20.5
10 18	2 30.46	+14 53.5	1.327	2.303	6.5	20.2
10 28	2 22.34	+13 45.5	1.309	2.301	1.3	19.9
11 7	2 13.98	+12 35.3	1.317	2.300	4.0	20.1
11 17	2 6.65	+11 31.0	1.351	2.300	9.0	20.4
11 27	2 1.40	+10 40.1	1.409	2.300	13.5	20.6
12 7	1 58.85	+10 7.2	1.488	2.301	17.3	20.9

347361 2012 QV_{41} 10 30.6 26°.52 0°.0/30.6 18

9 28	2 43.16	+15 32.9	0.966	1.861	19.4	20.1
10 8	2 38.85	+15 12.7	0.934	1.879	14.1	19.8
10 18	2 31.51	+14 37.9	0.920	1.899	8.0	19.6
10 28	2 22.53	+13 54.4	0.929	1.921	1.6	19.3
11 7	2 13.65	+13 10.4	0.960	1.945	4.6	19.6
11 17	2 6.45	+12 34.1	1.015	1.970	10.4	20.0
11 27	2 2.06	+12 12.2	1.091	1.996	15.3	20.3
12 7	2 0.95	+12 7.7	1.186	2.023	19.3	20.7

298423 2003 SB_{407} 10 30.6 151°.77 5°.1/26.5 18

9 28	2 46.22	− 1 9.6	2.238	3.097	11.2	21.4
10 8	2 39.69	− 1 52.6	2.184	3.106	8.5	21.2
10 18	2 31.56	− 2 31.2	2.156	3.114	6.0	21.1
10 28	2 22.55	− 3 0.4	2.156	3.122	5.2	21.1
11 7	2 13.49	− 3 16.4	2.185	3.129	6.6	21.2
11 17	2 5.21	− 3 16.6	2.242	3.135	9.2	21.3
11 27	1 58.43	− 3 0.3	2.325	3.141	11.8	21.5
12 7	1 53.60	− 2 28.6	2.430	3.146	14.1	21.7

309584 2008 AR_{103} 10 30.6 26°.96 4°.0/27.9 18

9 28	2 44.07	+ 4 46.2	1.714	2.590	13.3	20.3
10 8	2 38.61	+ 4 8.2	1.657	2.593	9.7	20.1
10 18	2 31.13	+ 3 30.0	1.623	2.596	6.0	19.9
10 28	2 22.47	+ 2 57.0	1.616	2.599	4.0	19.8
11 7	2 13.68	+ 2 34.5	1.636	2.602	6.1	19.9
11 17	2 5.81	+ 2 26.4	1.683	2.606	9.7	20.1
11 27	1 59.75	+ 2 34.9	1.755	2.610	13.2	20.4
12 7	1 56.03	+ 2 59.8	1.847	2.615	16.1	20.6

452768 2006 CC_{44} 10 30.6 188°.94 2°.0/28.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 41.21	+ 6 48.6	3.148	4.004	8.4	22.2
10 8	2 35.82	+ 6 20.4	3.075	4.003	6.1	22.0
10 18	2 29.28	+ 5 50.9	3.029	4.001	3.6	21.9
10 28	2 22.07	+ 5 22.8	3.013	3.999	2.1	21.7
11 7	2 14.76	+ 4 58.9	3.028	3.996	3.5	21.8
11 17	2 7.91	+ 4 41.6	3.073	3.993	5.9	22.0
11 27	2 2.04	+ 4 33.0	3.146	3.990	8.3	22.2
12 7	1 57.55	+ 4 34.1	3.243	3.986	10.3	22.3

392242 2009 WP_{36} 10 30.6 0°.45 0°.6/29.8 18

9 28	2 36.57	+11 19.8	4.020	4.871	6.9	21.1
10 8	2 32.33	+11 9.6	3.945	4.871	4.9	20.9
10 18	2 27.23	+10 57.0	3.897	4.871	2.8	20.8
10 28	2 21.63	+10 43.3	3.879	4.871	0.8	20.6
11 7	2 15.95	+10 30.3	3.891	4.871	2.0	20.7
11 17	2 10.60	+10 19.8	3.935	4.871	4.2	20.9
11 27	2 5.97	+10 13.4	4.007	4.871	6.2	21.0
12 7	2 2.37	+10 12.5	4.105	4.871	7.9	21.2

210598 1999 XG_{241} 10 30.6 295°.18 6°.1/ 2.9 17

9 28	2 49.65	+27 56.1	1.773	2.585	15.7	20.0
10 8	2 43.48	+28 52.9	1.675	2.561	12.8	19.7
10 18	2 34.43	+29 34.0	1.598	2.537	9.5	19.5
10 28	2 23.27	+29 55.4	1.547	2.513	6.7	19.3
11 7	2 11.24	+29 55.7	1.522	2.489	6.4	19.2
11 17	1 59.82	+29 37.5	1.525	2.465	9.0	19.3
11 27	1 50.47	+29 7.2	1.553	2.441	12.7	19.4
12 7	1 44.15	+28 33.5	1.603	2.418	16.2	19.6

316783 1999 TM_{154} 10 30.6 45°.53 1°.3/29.9 17

9 28	2 47.20	+13 57.6	1.034	1.922	19.0	19.5
10 8	2 41.51	+13 17.8	1.004	1.947	13.6	19.2
10 18	2 32.90	+12 26.2	0.994	1.972	7.6	19.0
10 28	2 22.82	+11 29.9	1.006	1.999	1.8	18.7
11 7	2 12.97	+10 37.5	1.044	2.026	5.1	19.1
11 17	2 4.87	+ 9 57.1	1.105	2.054	10.6	19.4
11 27	1 59.60	+ 9 34.2	1.188	2.082	15.3	19.8
12 7	1 57.57	+ 9 30.7	1.291	2.110	19.1	20.1

393781 2005 JR_{48} 10 30.6 53°.37 3°.5/28.0 18

9 28	2 43.42	+ 6 36.6	1.777	2.651	13.0	20.8
10 8	2 38.09	+ 5 49.5	1.719	2.655	9.4	20.6
10 18	2 30.81	+ 5 0.2	1.685	2.659	5.7	20.4
10 28	2 22.41	+ 4 14.2	1.678	2.663	3.5	20.3
11 7	2 13.90	+ 3 37.0	1.699	2.667	5.6	20.4
11 17	2 6.27	+ 3 13.3	1.747	2.672	9.3	20.7
11 27	2 0.38	+ 3 6.0	1.819	2.676	12.7	20.9
12 7	1 56.75	+ 3 15.6	1.913	2.681	15.7	21.1

15593 2000 GR_{93} 10 30.6 302°.15 5°.4/25.7 18

9 28	2 40.61	− 0 18.8	2.124	2.996	11.2	17.9
10 8	2 35.94	− 1 19.9	2.049	2.978	8.5	17.7
10 18	2 29.58	− 2 18.7	1.999	2.961	6.2	17.5
10 28	2 22.17	− 3 9.4	1.977	2.943	5.5	17.5
11 7	2 14.52	− 3 46.2	1.982	2.926	7.2	17.5
11 17	2 7.47	− 4 5.4	2.014	2.908	10.0	17.7
11 27	2 1.79	− 4 4.8	2.070	2.891	12.8	17.8
12 7	1 58.03	− 3 44.9	2.147	2.875	15.4	18.0

116048 2003 WC_{105} 10 30.6 31°.85 1°.0/31.4 18

9 28	2 42.43	+19 30.3	1.321	2.191	16.8	18.1
10 8	2 37.88	+18 51.0	1.273	2.204	12.4	17.9
10 18	2 30.85	+17 54.2	1.245	2.219	7.3	17.6
10 28	2 22.42	+16 44.8	1.242	2.234	2.1	17.4
11 7	2 13.97	+15 30.7	1.265	2.250	3.7	17.5
11 17	2 6.78	+14 20.6	1.314	2.267	8.7	17.9
11 27	2 1.88	+13 22.7	1.387	2.285	13.2	18.2
12 7	1 59.77	+12 42.1	1.480	2.303	16.9	18.5

27700 1982 SW_{3} 10 30.6 10°.45 2°.0/29.4 18

9 28	2 35.89	+15 35.2	0.770	1.685	20.7	15.9
10 8	2 34.23	+14 15.0	0.730	1.687	15.0	15.6
10 18	2 29.17	+12 33.3	0.707	1.691	8.4	15.3
10 28	2 22.10	+10 42.2	0.705	1.697	2.2	14.9
11 7	2 14.88	+ 8 57.8	0.723	1.706	6.4	15.2
11 17	2 9.28	+ 7 34.7	0.761	1.717	12.8	15.6
11 27	2 6.63	+ 6 42.3	0.819	1.729	18.4	16.0
12 7	2 7.47	+ 6 22.7	0.892	1.744	22.9	16.3

39071 2000 VS_{14} 10 30.6 54°.28 2°.4/29.1 18

9 28	2 44.82	+13 4.3	1.185	2.070	17.3	18.7
10 8	2 39.74	+11 50.9	1.140	2.082	12.4	18.4
10 18	2 31.96	+10 25.6	1.115	2.094	7.0	18.2
10 28	2 22.67	+ 8 56.8	1.115	2.106	2.5	17.9
11 7	2 13.37	+ 7 35.0	1.140	2.119	5.7	18.2
11 17	2 5.48	+ 6 29.6	1.190	2.132	10.9	18.5
11 27	2 0.08	+ 5 46.9	1.263	2.145	15.5	18.8
12 7	1 57.71	+ 5 28.6	1.355	2.158	19.2	19.1

266113 2006 SP_{275} 10 30.6 330°.76 0°.2/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 44.52	+16 58.9	1.327	2.199	16.6	20.7
10 8	2 39.67	+16 28.9	1.260	2.194	12.3	20.4
10 18	2 32.07	+15 43.5	1.214	2.189	7.2	20.1
10 28	2 22.74	+14 46.7	1.192	2.184	1.6	19.8
11 7	2 13.07	+13 45.4	1.196	2.180	4.1	20.0
11 17	2 4.52	+12 48.0	1.226	2.176	9.5	20.3
11 27	1 58.32	+12 2.6	1.279	2.173	14.4	20.5
12 7	1 55.16	+11 34.4	1.352	2.170	18.5	20.8

208107 2000 BG_{21} 10 30.7 321°.18 2°.1/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.85	+20 55.8	1.649	2.500	15.0	20.5
10 8	2 38.86	+20 47.4	1.572	2.492	11.3	20.3
10 18	2 31.50	+20 23.5	1.518	2.485	7.1	20.0
10 28	2 22.62	+19 45.4	1.489	2.477	2.9	19.7
11 7	2 13.40	+18 57.4	1.487	2.471	3.6	19.8
11 17	2 5.07	+18 5.8	1.512	2.464	7.9	20.0
11 27	1 58.71	+17 17.8	1.562	2.458	12.1	20.3
12 7	1 54.99	+16 39.7	1.635	2.452	15.8	20.5

443406 2014 HK_{45} 10 30.7 10°.23 5°.0/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.18	+ 3 40.7	1.527	2.410	14.2	20.8
10 8	2 38.18	+ 2 47.8	1.473	2.411	10.4	20.6
10 18	2 30.98	+ 1 55.3	1.441	2.413	6.8	20.4
10 28	2 22.49	+ 1 10.2	1.435	2.415	5.0	20.3
11 7	2 13.85	+ 0 39.1	1.455	2.417	7.2	20.5
11 17	2 6.22	+ 0 26.5	1.500	2.420	10.9	20.7
11 27	2 0.53	+ 0 34.5	1.569	2.423	14.5	20.9
12 7	1 57.37	+ 1 2.3	1.657	2.427	17.6	21.1

353036 2009 CQ_{34} 10 30.7 306°.17 4°.4/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.63	+25 30.5	1.697	2.527	15.6	21.6
10 8	2 40.99	+25 55.2	1.617	2.519	12.2	21.4
10 18	2 32.80	+26 2.7	1.559	2.511	8.5	21.1
10 28	2 22.92	+25 51.5	1.526	2.504	5.2	20.9
11 7	2 12.58	+25 23.5	1.520	2.497	4.9	20.9
11 17	2 3.14	+24 43.6	1.541	2.489	8.1	21.1
11 27	1 55.76	+23 59.3	1.587	2.483	12.0	21.3
12 7	1 51.22	+23 18.0	1.656	2.476	15.5	21.5

408475 2013 HP_{92} 10 30.7 145°.74 0°.7/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.45	+18 5.4	2.654	3.490	10.4	22.6
10 8	2 37.63	+17 46.6	2.584	3.500	7.6	22.4
10 18	2 30.40	+17 19.2	2.541	3.509	4.5	22.2
10 28	2 22.36	+16 45.1	2.526	3.517	1.3	22.0
11 7	2 14.23	+16 7.4	2.542	3.526	2.3	22.1
11 17	2 6.73	+15 29.7	2.589	3.533	5.5	22.4
11 27	2 0.51	+14 55.9	2.663	3.541	8.4	22.6
12 7	1 55.99	+14 29.3	2.763	3.547	10.9	22.7

251554 2009 CX_{58} 10 30.7 135°.67 2°.2/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.20	+22 9.2	2.327	3.151	12.1	21.7
10 8	2 39.83	+22 7.6	2.258	3.163	9.1	21.5
10 18	2 31.74	+21 53.9	2.214	3.173	5.8	21.3
10 28	2 22.65	+21 29.0	2.199	3.184	2.8	21.1
11 7	2 13.44	+20 55.8	2.213	3.194	3.0	21.2
11 17	2 5.00	+20 18.3	2.256	3.203	6.1	21.4
11 27	1 58.10	+19 41.3	2.328	3.212	9.2	21.6
12 7	1 53.24	+19 9.5	2.425	3.221	11.9	21.8

398664 2012 UF_{90} 10 30.7 278°.78 0°.1/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.61	+15 49.0	1.797	2.655	13.6	21.5
10 8	2 39.32	+15 19.4	1.705	2.633	10.0	21.2
10 18	2 31.77	+14 38.2	1.638	2.611	5.8	20.9
10 28	2 22.71	+13 48.1	1.596	2.589	1.2	20.6
11 7	2 13.18	+12 54.3	1.583	2.566	3.6	20.7
11 17	2 4.34	+12 3.1	1.599	2.544	8.3	20.9
11 27	1 57.26	+11 20.8	1.639	2.521	12.5	21.1
12 7	1 52.66	+10 52.2	1.702	2.498	16.2	21.3

442945 2013 CL_{90} 10 30.7 328°.42 7°.0/ 3.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.83	+29 9.7	1.563	2.382	17.2	20.5
10 8	2 42.30	+30 12.3	1.482	2.370	14.0	20.2
10 18	2 33.79	+30 56.0	1.421	2.358	10.6	20.0
10 28	2 23.18	+31 16.3	1.384	2.347	7.7	19.8
11 7	2 11.85	+31 12.4	1.372	2.337	7.2	19.8
11 17	2 1.42	+30 47.7	1.385	2.327	9.6	19.9
11 27	1 53.33	+30 10.1	1.423	2.318	13.2	20.1
12 7	1 48.50	+29 28.9	1.482	2.309	16.7	20.3

82571 2001 OV_{82} 10 30.7 118°.86 4°.7/27.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.63	+ 2 50.8	1.759	2.626	13.4	19.6
10 8	2 41.71	+ 2 3.2	1.713	2.643	9.9	19.4
10 18	2 32.82	+ 1 17.6	1.692	2.660	6.4	19.3
10 28	2 22.87	+ 0 39.7	1.698	2.676	4.7	19.2
11 7	2 12.95	+ 0 14.8	1.732	2.691	6.7	19.3
11 17	2 4.11	+ 0 6.2	1.794	2.706	10.0	19.6
11 27	1 57.19	+ 0 15.4	1.881	2.720	13.2	19.8
12 7	1 52.66	+ 0 41.4	1.988	2.733	15.9	20.0

125237 2001 UN_{164} 10 30.7 210°.43 3°.0/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.92	+ 7 18.1	1.778	2.645	13.3	20.0
10 8	2 40.75	+ 6 45.6	1.709	2.642	9.7	19.8
10 18	2 32.44	+ 6 10.3	1.664	2.638	5.8	19.6
10 28	2 22.83	+ 5 36.8	1.647	2.634	3.1	19.4
11 7	2 12.99	+ 5 10.3	1.658	2.630	5.3	19.5
11 17	2 4.02	+ 4 55.1	1.696	2.625	9.2	19.8
11 27	1 56.88	+ 4 54.4	1.760	2.620	13.0	20.0
12 7	1 52.17	+ 5 9.2	1.845	2.614	16.1	20.2

276796 2004 NB_{31} 10 30.7 9°.55 9°.6/26.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.13	− 4 8.1	1.018	1.917	18.2	18.7
10 8	2 38.81	− 4 56.3	0.980	1.920	14.2	18.5
10 18	2 31.57	− 5 31.1	0.961	1.924	10.8	18.3
10 28	2 22.64	− 5 42.3	0.963	1.930	9.7	18.3
11 7	2 13.64	− 5 23.8	0.987	1.937	11.7	18.4
11 17	2 6.11	− 4 34.3	1.033	1.947	15.3	18.7
11 27	2 1.22	− 3 17.1	1.098	1.958	19.0	18.9
12 7	1 59.54	− 1 38.4	1.180	1.970	22.2	19.2

268657 2006 EB_{2} 10 30.7 10°.73 4°.7/26.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.87	+ 3 12.9	1.939	2.817	11.9	20.2
10 8	2 35.42	+ 2 3.7	1.883	2.818	8.7	20.0
10 18	2 29.27	+ 0 54.7	1.851	2.820	5.8	19.9
10 28	2 22.14	− 0 7.6	1.847	2.822	4.7	19.8
11 7	2 14.92	− 0 57.2	1.870	2.825	6.6	19.9
11 17	2 8.44	− 1 29.7	1.920	2.828	9.6	20.1
11 27	2 3.47	− 1 42.7	1.994	2.831	12.6	20.3
12 7	2 0.48	− 1 36.3	2.089	2.835	15.2	20.5

46992 1998 TZ_{17} 10 30.7 252°.22 6°.6/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.92	+32 17.3	2.007	2.793	15.1	17.0
10 8	2 42.56	+33 0.4	1.920	2.784	12.5	16.8
10 18	2 33.69	+33 24.4	1.854	2.775	9.6	16.6
10 28	2 23.14	+33 26.2	1.814	2.766	7.2	16.4
11 7	2 12.07	+33 5.7	1.800	2.757	6.7	16.4
11 17	2 1.79	+32 26.4	1.814	2.748	8.4	16.5
11 27	1 53.46	+31 35.3	1.855	2.738	11.2	16.6
12 7	1 47.85	+30 40.6	1.918	2.729	14.1	16.8

147991 1996 AC_{11} 10 30.7 221°.21 0°.8/30.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.20	+14 10.5	1.861	2.718	13.3	21.7
10 8	2 40.25	+13 32.1	1.782	2.710	9.7	21.5
10 18	2 32.19	+12 43.8	1.727	2.701	5.5	21.2
10 28	2 22.79	+11 49.4	1.700	2.692	1.3	20.9
11 7	2 13.12	+10 54.4	1.702	2.683	3.8	21.1
11 17	2 4.25	+10 4.6	1.732	2.673	8.1	21.3
11 27	1 57.14	+ 9 25.8	1.789	2.662	12.1	21.5
12 7	1 52.42	+ 9 1.5	1.868	2.651	15.4	21.7

361870 2008 FL_{9} 10 30.7 111°.38 0°.5/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.92	+17 7.3	2.011	2.862	12.7	21.3
10 8	2 38.41	+16 49.6	1.942	2.865	9.3	21.0
10 18	2 31.03	+16 21.8	1.896	2.868	5.5	20.8
10 28	2 22.53	+15 46.1	1.878	2.870	1.4	20.5
11 7	2 13.87	+15 6.8	1.889	2.873	2.9	20.7
11 17	2 5.99	+14 28.4	1.928	2.875	6.9	20.9
11 27	1 59.74	+13 56.1	1.994	2.878	10.5	21.2
12 7	1 55.65	+13 33.5	2.084	2.880	13.6	21.4

148113 1999 RW_{252} 10 30.7 87°.16 4°.5/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.29	+28 52.3	2.161	2.964	13.6	19.8
10 8	2 39.44	+29 5.1	2.091	2.973	10.8	19.6
10 18	2 31.64	+29 0.9	2.043	2.981	7.8	19.5
10 28	2 22.66	+28 39.0	2.022	2.990	5.2	19.3
11 7	2 13.51	+28 1.7	2.028	2.998	4.7	19.3
11 17	2 5.19	+27 13.5	2.063	3.007	6.8	19.5
11 27	1 58.58	+26 20.7	2.125	3.015	9.7	19.7
12 7	1 54.22	+25 29.6	2.211	3.023	12.4	19.9

61431 2000 QY_{17} 10 30.7 146°.02 1°.6/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.08	+11 19.8	2.028	2.892	12.0	19.1
10 8	2 37.74	+10 44.9	1.961	2.893	8.7	18.9
10 18	2 30.62	+10 4.1	1.918	2.894	4.9	18.6
10 28	2 22.44	+ 9 21.3	1.904	2.895	1.7	18.4
11 7	2 14.13	+ 8 41.2	1.918	2.896	3.9	18.6
11 17	2 6.56	+ 8 8.3	1.960	2.897	7.6	18.8
11 27	2 0.55	+ 7 46.5	2.029	2.898	11.1	19.0
12 7	1 56.60	+ 7 38.0	2.120	2.898	14.0	19.2

398752 2013 AC_{38} 10 30.7 281°.64 1°.8/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.82	+11 4.3	1.797	2.665	13.1	21.3
10 8	2 38.55	+10 29.0	1.723	2.657	9.5	21.0
10 18	2 31.22	+ 9 46.9	1.673	2.649	5.5	20.8
10 28	2 22.59	+ 9 2.4	1.649	2.640	1.9	20.5
11 7	2 13.70	+ 8 20.8	1.654	2.632	4.4	20.7
11 17	2 5.60	+ 7 47.5	1.687	2.624	8.6	20.9
11 27	1 59.23	+ 7 26.9	1.745	2.616	12.4	21.1
12 7	1 55.20	+ 7 21.5	1.824	2.608	15.7	21.3

457034 2008 CA_{179} 10 30.7 183°.18 13°.9/ 5.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	3 2.94	+38 50.1	1.265	2.036	23.0	21.2
10 8	2 54.87	+41 9.4	1.198	2.037	20.0	21.0
10 18	2 41.86	+43 0.7	1.150	2.037	17.0	20.8
10 28	2 25.04	+44 10.0	1.121	2.037	14.7	20.7
11 7	2 6.79	+44 29.5	1.115	2.037	13.9	20.7
11 17	1 50.06	+44 1.4	1.132	2.036	15.2	20.8
11 27	1 37.38	+42 59.1	1.170	2.035	17.7	20.9
12 7	1 30.03	+41 40.9	1.226	2.033	20.6	21.1

256758 2008 BU_{37} 10 30.7 248°.29 1°.1/29.9 17

9 28	2 48.70	+12 29.1	1.624	2.487	14.6	21.6
10 8	2 42.44	+12 11.0	1.543	2.474	10.7	21.3
10 18	2 33.63	+11 44.8	1.485	2.460	6.1	21.0
10 28	2 23.14	+11 13.6	1.453	2.445	1.5	20.7
11 7	2 12.19	+10 42.5	1.449	2.430	4.3	20.8
11 17	2 2.09	+10 16.9	1.473	2.414	9.2	21.1
11 27	1 54.02	+10 2.0	1.522	2.399	13.6	21.3
12 7	1 48.75	+10 1.2	1.592	2.382	17.4	21.5

68753 2002 EY_{74} 10 30.7 225°.59 0°.2/30.9 18

9 28	2 44.84	+16 51.3	1.789	2.645	13.8	19.6
10 8	2 39.32	+16 22.7	1.716	2.642	10.1	19.3
10 18	2 31.66	+15 42.2	1.666	2.639	5.9	19.1
10 28	2 22.69	+14 53.0	1.643	2.635	1.4	18.8
11 7	2 13.49	+14 0.1	1.648	2.632	3.3	18.9
11 17	2 5.14	+13 9.7	1.682	2.628	7.8	19.2
11 27	1 58.62	+12 27.8	1.741	2.624	11.8	19.4
12 7	1 54.51	+11 58.6	1.822	2.620	15.2	19.6

120522 1994 NU_{2} 10 30.7 68°.75 0°.8/31.2 17

9 28	2 50.66	+18 28.5	1.151	2.019	18.9	19.8
10 8	2 43.93	+17 58.4	1.115	2.046	13.8	19.6
10 18	2 34.31	+17 11.3	1.099	2.073	8.1	19.4
10 28	2 23.21	+16 11.8	1.107	2.099	2.1	19.1
11 7	2 12.33	+15 8.2	1.141	2.126	4.2	19.3
11 17	2 3.19	+14 9.6	1.200	2.152	9.6	19.7
11 27	1 56.88	+13 24.0	1.283	2.178	14.3	20.0
12 7	1 53.87	+12 55.9	1.386	2.204	18.1	20.4

29822 1999 DS_{2} 10 30.7 247°.57 3°.9/ 2.7 18

9 28	2 46.36	+26 22.8	2.205	3.016	13.1	18.9
10 8	2 40.35	+26 37.8	2.114	3.004	10.3	18.7
10 18	2 32.28	+26 37.8	2.046	2.992	7.2	18.5
10 28	2 22.85	+26 22.0	2.005	2.979	4.5	18.3
11 7	2 13.04	+25 52.1	1.992	2.967	4.2	18.2
11 17	2 3.87	+25 11.9	2.008	2.953	6.8	18.4
11 27	1 56.33	+24 27.2	2.052	2.940	10.1	18.6
12 7	1 51.05	+23 44.2	2.120	2.926	13.1	18.7

347181 2011 GD_{11} 10 30.7 329°.41 0°.3/30.9 18

9 28	2 42.67	+18 21.2	1.343	2.214	16.5	20.4
10 8	2 38.33	+17 33.0	1.273	2.206	12.2	20.1
10 18	2 31.33	+16 26.5	1.224	2.199	7.2	19.8
10 28	2 22.65	+15 6.2	1.200	2.193	1.7	19.4
11 7	2 13.65	+13 40.6	1.202	2.187	4.0	19.6
11 17	2 5.73	+12 19.5	1.230	2.181	9.5	19.9
11 27	2 0.07	+11 12.4	1.281	2.176	14.3	20.1
12 7	1 57.36	+10 25.2	1.353	2.171	18.4	20.4

429797 2012 HQ_{58} 10 30.7 125°.03 2°.1/29.1 16

9 28	2 46.67	+12 11.4	1.576	2.444	14.6	22.1
10 8	2 40.62	+11 7.4	1.521	2.455	10.5	21.9
10 18	2 32.35	+ 9 54.5	1.490	2.466	6.0	21.7
10 28	2 22.83	+ 8 39.0	1.486	2.477	2.2	21.5
11 7	2 13.27	+ 7 28.5	1.509	2.486	4.9	21.7
11 17	2 4.82	+ 6 30.3	1.561	2.496	9.3	22.0
11 27	1 58.44	+ 5 49.6	1.637	2.505	13.3	22.2
12 7	1 54.64	+ 5 28.5	1.734	2.513	16.6	22.5

266599 2008 JP_{25} 10 30.7 124°.78 0°.9/30.1 16

9 28	2 48.19	+13 37.4	1.734	2.592	14.0	21.7
10 8	2 41.59	+13 7.9	1.677	2.606	10.1	21.5
10 18	2 32.86	+12 29.9	1.644	2.619	5.7	21.2
10 28	2 22.94	+11 47.2	1.639	2.631	1.3	21.0
11 7	2 12.96	+11 5.1	1.662	2.643	3.8	21.2
11 17	2 4.04	+10 29.0	1.713	2.654	8.2	21.5
11 27	1 57.08	+10 3.6	1.791	2.665	12.0	21.7
12 7	1 52.62	+ 9 51.6	1.890	2.676	15.2	22.0

129225 2005 OV_{14} 10 30.7 53°.60 1°.2/31.4 18

9 28	2 48.31	+18 34.7	1.229	2.097	18.0	19.5
10 8	2 42.17	+18 18.1	1.191	2.121	13.2	19.3
10 18	2 33.32	+17 45.6	1.173	2.146	7.8	19.1
10 28	2 23.03	+17 0.6	1.180	2.171	2.3	18.8
11 7	2 12.87	+16 10.2	1.212	2.197	3.9	19.0
11 17	2 4.27	+15 22.1	1.270	2.223	9.1	19.4
11 27	1 58.29	+14 43.8	1.352	2.249	13.6	19.7
12 7	1 55.41	+14 20.0	1.455	2.275	17.3	20.0

76514 2000 GF_{39} 10 30.7 3°.91 2°.7/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.06	+20 52.4	2.075	2.908	13.0	19.0
10 8	2 40.82	+21 30.3	1.999	2.908	9.9	18.8
10 18	2 32.52	+21 58.0	1.948	2.908	6.4	18.6
10 28	2 22.91	+22 14.5	1.924	2.909	3.3	18.4
11 7	2 12.98	+22 21.0	1.930	2.910	3.6	18.4
11 17	2 3.79	+22 20.0	1.964	2.911	6.8	18.6
11 27	1 56.27	+22 15.9	2.025	2.912	10.2	18.8
12 7	1 51.05	+22 13.1	2.110	2.914	13.2	19.0

398026 2009 DH_{64} 10 30.7 43°.78 1°.0/30.0 18

9 28	2 45.92	+12 7.0	1.802	2.665	13.3	21.1
10 8	2 40.02	+11 57.0	1.735	2.666	9.7	20.9
10 18	2 32.04	+11 40.9	1.693	2.668	5.5	20.6
10 28	2 22.80	+11 21.6	1.677	2.669	1.3	20.3
11 7	2 13.35	+11 2.9	1.690	2.671	3.7	20.5
11 17	2 4.78	+10 49.0	1.731	2.673	8.0	20.8
11 27	1 58.01	+10 43.8	1.797	2.675	11.8	21.0
12 7	1 53.63	+10 49.6	1.886	2.676	15.0	21.3

257486 1995 SC_{24} 10 30.7 3°.99 1°.0/29.2 18

9 28	2 34.80	+10 19.3	4.225	5.080	6.5	21.1
10 8	2 31.06	+ 9 53.4	4.152	5.080	4.6	20.9
10 18	2 26.56	+ 9 25.1	4.106	5.080	2.6	20.8
10 28	2 21.61	+ 8 56.4	4.090	5.080	1.0	20.6
11 7	2 16.59	+ 8 29.3	4.105	5.081	2.2	20.7
11 17	2 11.87	+ 8 5.6	4.150	5.081	4.1	20.9
11 27	2 7.82	+ 7 47.3	4.223	5.081	6.0	21.0
12 7	2 4.71	+ 7 35.6	4.323	5.082	7.7	21.2

305904 2009 FN_{39} 10 30.7 66°.02 4°.1/27.6 18

9 28	2 43.52	+ 5 24.9	1.742	2.618	13.1	20.6
10 8	2 38.18	+ 4 28.8	1.689	2.625	9.5	20.4
10 18	2 30.92	+ 3 31.5	1.660	2.632	5.9	20.2
10 28	2 22.55	+ 2 39.2	1.657	2.640	4.1	20.1
11 7	2 14.10	+ 1 57.9	1.683	2.647	6.2	20.2
11 17	2 6.58	+ 1 32.2	1.735	2.655	9.7	20.4
11 27	2 0.82	+ 1 24.7	1.811	2.662	13.0	20.7
12 7	1 57.33	+ 1 35.5	1.908	2.670	15.9	20.9

364963 2008 GV_{126} 10 30.7 319°.19 4°.5/28.1 17

9 28	2 44.68	+ 3 47.4	1.549	2.429	14.2	20.2
10 8	2 39.64	+ 3 24.6	1.466	2.403	10.6	19.9
10 18	2 32.11	+ 3 2.4	1.405	2.378	6.8	19.6
10 28	2 22.87	+ 2 46.5	1.370	2.353	4.5	19.4
11 7	2 13.08	+ 2 42.4	1.361	2.329	6.8	19.5
11 17	2 4.03	+ 2 54.2	1.377	2.305	11.0	19.7
11 27	1 56.91	+ 3 24.2	1.418	2.282	15.2	19.9
12 7	1 52.50	+ 4 12.4	1.477	2.260	18.8	20.1

12096 1998 HL_{120} 10 30.7 173°.42 6°.8/24.7 18

9 28	2 44.53	− 4 9.2	2.045	2.909	12.0	17.6
10 8	2 38.69	− 5 24.6	1.992	2.911	9.4	17.4
10 18	2 31.14	− 6 33.8	1.965	2.913	7.3	17.3
10 28	2 22.60	− 7 29.6	1.965	2.915	7.0	17.3
11 7	2 13.97	− 8 6.6	1.992	2.916	8.5	17.4
11 17	2 6.13	− 8 21.7	2.045	2.916	11.0	17.6
11 27	1 59.86	− 8 14.2	2.122	2.916	13.5	17.7
12 7	1 55.63	− 7 45.9	2.219	2.916	15.7	17.9

174351 2002 TP_{249} 10 30.7 323°.68 1°.0/30.1 18

9 28	2 43.94	+12 17.2	1.501	2.376	14.9	19.7
10 8	2 39.17	+12 10.2	1.420	2.357	10.9	19.4
10 18	2 31.86	+11 55.7	1.361	2.338	6.3	19.1
10 28	2 22.82	+11 36.9	1.328	2.320	1.5	18.7
11 7	2 13.26	+11 18.4	1.320	2.303	4.3	18.9
11 17	2 4.50	+11 5.1	1.339	2.286	9.3	19.1
11 27	1 57.78	+11 2.1	1.382	2.270	13.9	19.4
12 7	1 53.86	+11 12.5	1.445	2.255	17.9	19.6

314631 2006 HB_{17} 10 30.7 243°.42 3°.2/26.8 17

9 28	2 40.19	+ 6 27.3	2.635	3.498	9.6	20.6
10 8	2 35.37	+ 5 4.0	2.554	3.485	7.0	20.4
10 18	2 29.20	+ 3 37.0	2.501	3.471	4.4	20.2
10 28	2 22.20	+ 2 11.4	2.478	3.457	3.2	20.1
11 7	2 15.03	+ 0 52.8	2.485	3.443	5.0	20.2
11 17	2 8.36	− 0 13.9	2.522	3.428	7.7	20.3
11 27	2 2.83	− 1 5.0	2.586	3.413	10.4	20.5
12 7	1 58.86	− 1 39.0	2.672	3.398	12.7	20.6

72318 2001 BN_{47} 10 30.7 267°.16 0°.9/29.9 18

9 28	2 44.05	+13 56.5	1.815	2.677	13.3	20.1
10 8	2 38.79	+13 19.1	1.734	2.665	9.7	19.9
10 18	2 31.41	+12 32.0	1.678	2.653	5.5	19.6
10 28	2 22.70	+11 38.9	1.649	2.641	1.3	19.3
11 7	2 13.66	+10 45.3	1.648	2.629	3.8	19.4
11 17	2 5.40	+ 9 57.3	1.675	2.617	8.2	19.7
11 27	1 58.86	+ 9 20.6	1.727	2.604	12.3	19.9
12 7	1 54.69	+ 8 58.6	1.802	2.591	15.7	20.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
292953 2006 VX_{108}			10 30.7 310°.44		5°.2/ 4.2 18	
	h m	° ′			°	m
9 28	2 43.20	+30 49.5	1.853	2.660	15.4	20.3
10 8	2 38.37	+30 41.8	1.767	2.650	12.4	20.1
10 18	2 31.24	+30 11.4	1.703	2.641	9.1	19.9
10 28	2 22.66	+29 17.8	1.664	2.632	6.1	19.7
11 7	2 13.76	+28 4.0	1.651	2.623	5.4	19.6
11 17	2 5.72	+26 36.6	1.666	2.614	7.7	19.7
11 27	1 59.59	+25 4.8	1.708	2.606	11.1	19.9
12 7	1 56.03	+23 37.6	1.773	2.598	14.4	20.1
482812 2013 WJ_{60}			10 30.7 314°.15		1°.8/29.9 18	
9 28	2 50.90	+ 8 51.9	1.340	2.214	16.4	20.6
10 8	2 44.47	+ 9 12.3	1.268	2.203	12.0	20.4
10 18	2 35.01	+ 9 30.9	1.217	2.193	7.0	20.0
10 28	2 23.51	+ 9 50.0	1.191	2.183	2.1	19.7
11 7	2 11.45	+10 12.7	1.192	2.173	5.0	19.9
11 17	2 0.44	+10 41.4	1.219	2.163	10.3	20.2
11 27	1 51.89	+11 18.9	1.270	2.154	15.2	20.4
12 7	1 46.64	+12 6.8	1.341	2.146	19.3	20.7
298683 2004 DK_{32}			10 30.7 326°.03		2°.8/ 1.6 18	
9 28	2 42.09	+22 28.2	1.502	2.357	16.0	19.8
10 8	2 37.92	+22 19.8	1.420	2.340	12.3	19.5
10 18	2 31.16	+21 52.9	1.358	2.324	7.9	19.3
10 28	2 22.68	+21 8.2	1.321	2.308	3.7	19.0
11 7	2 13.72	+20 10.2	1.310	2.293	4.0	19.0
11 17	2 5.62	+19 6.1	1.324	2.279	8.5	19.2
11 27	1 59.63	+18 4.9	1.364	2.266	13.1	19.4
12 7	1 56.49	+17 14.3	1.424	2.253	17.1	19.6
58352 1995 EX_{1}			10 30.7 233°.03		0°.7/31.2 18	
9 28	2 46.38	+17 50.8	1.897	2.745	13.4	20.6
10 8	2 40.46	+17 29.2	1.813	2.735	10.0	20.3
10 18	2 32.38	+16 55.6	1.754	2.724	5.9	20.1
10 28	2 22.92	+16 12.0	1.721	2.713	1.6	19.8
11 7	2 13.12	+15 22.9	1.717	2.701	3.2	19.8
11 17	2 4.09	+14 33.9	1.743	2.689	7.6	20.1
11 27	1 56.82	+13 51.1	1.794	2.677	11.6	20.3
12 7	1 51.96	+13 19.4	1.869	2.664	15.0	20.5
97321 1999 XO_{220}			10 30.7 331°.72		8°.4/26.1 18	
9 28	2 46.19	− 5 3.9	1.440	2.316	15.3	17.9
10 8	2 40.64	− 5 44.4	1.379	2.305	12.1	17.6
10 18	2 32.58	− 6 14.4	1.340	2.294	9.3	17.5
10 28	2 22.96	− 6 25.9	1.325	2.284	8.5	17.4
11 7	2 13.05	− 6 13.1	1.335	2.275	10.3	17.5
11 17	2 4.16	− 5 33.8	1.369	2.267	13.5	17.6
11 27	1 57.41	− 4 29.3	1.425	2.259	16.9	17.8
12 7	1 53.47	− 3 3.4	1.499	2.252	19.9	18.0
438792 2008 XO_{3}			10 30.7 30°.72		8°.7/ 7.4 16	
9 28	2 43.08	+37 56.0	1.207	2.013	22.0	19.7
10 8	2 38.96	+37 39.8	1.159	2.031	18.3	19.5
10 18	2 31.71	+36 44.3	1.127	2.050	14.2	19.3
10 28	2 22.74	+35 9.1	1.116	2.070	10.5	19.2
11 7	2 13.83	+33 1.2	1.128	2.091	8.7	19.2
11 17	2 6.61	+30 34.2	1.164	2.113	10.1	19.3
11 27	2 2.24	+28 5.0	1.225	2.136	13.4	19.6
12 7	2 1.18	+25 48.2	1.307	2.160	16.9	19.9
3911 Otomo			10 30.7 44°.23		0°.7/30.1 18	
9 28	2 40.82	+15 40.4	1.965	2.826	12.5	15.9
10 8	2 36.14	+14 41.4	1.902	2.832	9.0	15.7
10 18	2 29.72	+13 31.8	1.864	2.839	5.1	15.4
10 28	2 22.32	+12 16.6	1.854	2.847	1.1	15.2
11 7	2 14.84	+11 1.7	1.873	2.854	3.4	15.4
11 17	2 8.17	+ 9 53.5	1.920	2.862	7.3	15.6
11 27	2 3.06	+ 8 57.6	1.994	2.870	10.9	15.9
12 7	1 59.98	+ 8 17.1	2.090	2.878	13.8	16.1
435229 2007 RB_{308}			10 30.7 35°.41		0°.9/29.3 18	
9 28	2 34.56	+11 3.3	4.285	5.138	6.4	21.3
10 8	2 30.90	+10 33.2	4.212	5.140	4.6	21.2
10 18	2 26.48	+10 0.5	4.167	5.142	2.6	21.0
10 28	2 21.63	+ 9 26.9	4.153	5.143	0.9	20.9
11 7	2 16.71	+ 8 54.7	4.168	5.145	2.1	21.0
11 17	2 12.10	+ 8 25.9	4.215	5.147	4.1	21.2
11 27	2 8.15	+ 8 2.3	4.290	5.149	5.9	21.3
12 7	2 5.11	+ 7 45.3	4.391	5.151	7.6	21.4
165582 2001 EA_{17}			10 30.7 297°.63		15°.4/ 2.8 17	
9 28	3 8.98	+34 29.3	1.064	1.863	24.8	18.9
10 8	3 0.46	+37 54.8	0.999	1.859	21.5	18.7
10 18	2 45.89	+41 0.1	0.952	1.856	18.1	18.5
10 28	2 26.16	+43 24.2	0.927	1.853	15.8	18.3
11 7	2 3.92	+44 50.8	0.924	1.849	15.6	18.3
11 17	1 43.00	+45 17.5	0.944	1.846	17.6	18.4
11 27	1 26.91	+44 58.2	0.983	1.843	20.7	18.6
12 7	1 17.42	+44 15.2	1.039	1.840	23.9	18.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
180006 2002 YQ_{13}			10 30.7 305°.29		3°.4/28.2 18	
	h m	° ′			°	m
9 28	2 42.82	+ 7 2.8	1.763	2.638	13.0	20.2
10 8	2 37.90	+ 6 18.5	1.688	2.625	9.5	20.0
10 18	2 30.92	+ 5 30.6	1.637	2.612	5.7	19.7
10 28	2 22.62	+ 4 44.6	1.613	2.599	3.4	19.5
11 7	2 14.02	+ 4 6.4	1.616	2.586	5.7	19.7
11 17	2 6.18	+ 3 41.0	1.646	2.574	9.5	19.9
11 27	2 0.03	+ 3 32.2	1.701	2.562	13.3	20.1
12 7	1 56.22	+ 3 41.2	1.776	2.550	16.5	20.3
281724 2008 WY_{135}			10 30.7 33°.60		3°.8/28.6 18	
9 28	2 44.63	+ 7 34.3	1.182	2.073	16.8	18.9
10 8	2 39.52	+ 6 52.3	1.147	2.091	12.1	18.7
10 18	2 31.84	+ 6 7.5	1.132	2.110	7.1	18.5
10 28	2 22.77	+ 5 27.3	1.142	2.130	3.9	18.4
11 7	2 13.79	+ 4 58.6	1.176	2.151	6.5	18.6
11 17	2 6.22	+ 4 46.4	1.235	2.172	11.0	18.9
11 27	2 1.09	+ 4 53.3	1.316	2.194	15.2	19.2
12 7	1 58.86	+ 5 18.7	1.416	2.217	18.6	19.5
362800 2011 XP			10 30.7 313°.14		2°.7/28.9 17	
9 28	2 43.46	+ 8 40.4	1.674	2.549	13.6	21.0
10 8	2 38.53	+ 8 11.6	1.595	2.532	9.9	20.8
10 18	2 31.36	+ 7 38.2	1.539	2.515	5.8	20.5
10 28	2 22.73	+ 7 4.9	1.510	2.499	2.7	20.3
11 7	2 13.71	+ 6 36.9	1.507	2.483	5.1	20.4
11 17	2 5.44	+ 6 19.4	1.532	2.467	9.4	20.6
11 27	1 58.98	+ 6 16.3	1.581	2.452	13.5	20.8
12 7	1 55.00	+ 6 29.3	1.650	2.438	17.0	21.0
266883 2009 VD_{80}			10 30.7 330°.01		7°.8/23.7 18	
9 28	2 39.63	− 4 43.0	1.820	2.697	12.6	19.7
10 8	2 35.48	− 6 7.7	1.758	2.683	10.0	19.5
10 18	2 29.46	− 7 26.1	1.720	2.669	8.1	19.4
10 28	2 22.30	− 8 30.0	1.708	2.656	8.0	19.3
11 7	2 14.92	− 9 12.5	1.722	2.644	9.7	19.4
11 17	2 8.25	− 9 29.6	1.760	2.633	12.4	19.6
11 27	2 3.16	− 9 20.0	1.819	2.621	15.1	19.7
12 7	2 0.19	− 8 45.9	1.898	2.611	17.6	19.9
142309 2002 RZ_{162}			10 30.7 288°.51		2°.2/31.9 18	
9 28	2 47.30	+19 57.2	1.461	2.316	16.3	20.2
10 8	2 41.92	+20 1.4	1.373	2.295	12.4	19.9
10 18	2 33.62	+19 50.0	1.306	2.274	7.8	19.6
10 28	2 23.26	+19 23.5	1.264	2.253	3.1	19.3
11 7	2 12.21	+18 45.2	1.248	2.232	4.0	19.3
11 17	2 1.99	+18 1.5	1.258	2.211	9.2	19.5
11 27	1 54.03	+17 20.5	1.293	2.190	14.1	19.8
12 7	1 49.23	+16 49.6	1.349	2.169	18.4	20.0
324186 2006 AS_{49}			10 30.7 236°.88		2°.2/28.7 18	
9 28	2 42.46	+ 8 18.9	2.405	3.267	10.5	21.4
10 8	2 37.14	+ 7 46.1	2.329	3.259	7.6	21.2
10 18	2 30.28	+ 7 10.2	2.277	3.251	4.4	21.0
10 28	2 22.48	+ 6 34.7	2.255	3.243	2.2	20.9
11 7	2 14.49	+ 6 3.5	2.262	3.235	4.0	21.0
11 17	2 7.08	+ 5 40.3	2.299	3.226	7.2	21.2
11 27	2 0.95	+ 5 27.8	2.362	3.218	10.2	21.4
12 7	1 56.60	+ 5 27.7	2.448	3.209	12.8	21.5
78250 2002 PE_{9}			10 30.7 1°.44		0°.6/30.2 18	
9 28	2 39.84	+15 3.5	1.791	2.659	13.2	19.2
10 8	2 35.66	+14 23.4	1.724	2.657	9.6	18.9
10 18	2 29.57	+13 33.0	1.681	2.657	5.5	18.7
10 28	2 22.33	+12 36.6	1.665	2.657	1.1	18.4
11 7	2 14.92	+11 39.9	1.676	2.658	3.5	18.6
11 17	2 8.32	+10 48.7	1.714	2.660	7.8	18.8
11 27	2 3.37	+10 8.7	1.778	2.662	11.6	19.1
12 7	2 0.62	+ 9 43.1	1.864	2.665	14.8	19.3
156691 2002 LR_{5}			10 30.7 97°.21		4°.2/25.8 18	
9 28	2 41.15	+ 2 14.2	2.575	3.439	9.8	20.3
10 8	2 35.88	+ 0 47.9	2.535	3.463	7.2	20.1
10 18	2 29.39	− 0 36.7	2.523	3.486	5.0	20.0
10 28	2 22.26	− 1 54.1	2.540	3.508	4.3	20.0
11 7	2 15.17	− 2 59.4	2.587	3.530	5.8	20.2
11 17	2 8.75	− 3 49.1	2.663	3.552	8.1	20.3
11 27	2 3.55	− 4 21.3	2.765	3.574	10.3	20.5
12 7	1 59.92	− 4 36.2	2.889	3.595	12.2	20.7
384627 2011 DE			10 30.7 166°.32		3°.3/28.2 18	
9 28	2 45.55	+ 8 18.8	1.736	2.606	13.4	21.3
10 8	2 39.75	+ 7 16.4	1.675	2.609	9.7	21.0
10 18	2 31.89	+ 6 9.2	1.637	2.612	5.8	20.8
10 28	2 22.83	+ 5 3.3	1.628	2.614	3.3	20.7
11 7	2 13.63	+ 4 5.5	1.646	2.616	5.6	20.8
11 17	2 5.37	+ 3 21.8	1.692	2.618	9.5	21.1
11 27	1 58.94	+ 2 56.0	1.763	2.619	13.1	21.3
12 7	1 54.89	+ 2 49.4	1.855	2.619	16.2	21.5

188640 2005 QT_{117} 10 30.7 150°.17 3°.2/ 2.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 50.20	+24 14.0	1.912	2.733	14.4	21.6
10 8	2 43.16	+24 18.7	1.843	2.743	11.1	21.4
10 18	2 33.88	+24 7.4	1.797	2.751	7.4	21.2
10 28	2 23.26	+23 40.3	1.778	2.760	4.0	21.0
11 7	2 12.46	+23 0.3	1.788	2.767	3.9	21.0
11 17	2 2.65	+22 12.8	1.827	2.774	7.2	21.3
11 27	1 54.80	+21 24.5	1.893	2.780	10.8	21.5
12 7	1 49.54	+20 41.9	1.982	2.785	14.0	21.7

247821 2003 SN_{170} 10 30.7 99°.60 1°.5/29.1 18

9 28	2 40.90	+11 58.9	2.370	3.229	10.7	20.3
10 8	2 35.91	+11 0.4	2.310	3.241	7.6	20.1
10 18	2 29.50	+ 9 56.0	2.277	3.252	4.3	19.9
10 28	2 22.30	+ 8 50.0	2.273	3.264	1.6	19.8
11 7	2 15.07	+ 7 47.4	2.299	3.275	3.6	19.9
11 17	2 8.51	+ 6 52.8	2.354	3.286	6.8	20.2
11 27	2 3.27	+ 6 10.1	2.436	3.297	9.8	20.4
12 7	1 59.75	+ 5 41.3	2.542	3.308	12.3	20.6

124704 2001 SQ_{148} 10 30.7 315°.87 1°.1/31.4 18

9 28	2 42.61	+19 9.4	1.330	2.200	16.7	19.5
10 8	2 38.55	+18 42.2	1.249	2.180	12.6	19.2
10 18	2 31.67	+17 56.3	1.188	2.161	7.6	18.9
10 28	2 22.85	+16 54.4	1.150	2.142	2.3	18.5
11 7	2 13.47	+15 43.0	1.139	2.124	4.0	18.6
11 17	2 5.01	+14 31.4	1.152	2.106	9.6	18.9
11 27	1 58.85	+13 29.2	1.189	2.089	14.7	19.1
12 7	1 55.80	+12 44.1	1.245	2.073	19.2	19.3

225187 2008 HM_{60} 10 30.7 59°.89 7°.1/26.2 18

9 28	2 46.89	− 6 37.1	1.934	2.793	12.8	19.5
10 8	2 40.29	− 7 8.9	1.900	2.813	10.0	19.4
10 18	2 31.99	− 7 30.1	1.889	2.834	7.8	19.3
10 28	2 22.82	− 7 35.6	1.906	2.856	7.1	19.3
11 7	2 13.76	− 7 22.5	1.949	2.877	8.4	19.4
11 17	2 5.70	− 6 49.9	2.019	2.898	10.7	19.6
11 27	1 59.37	− 5 59.2	2.113	2.919	13.2	19.8
12 7	1 55.18	− 4 53.4	2.228	2.941	15.3	20.0

405876 2006 DN_{216} 10 30.7 264°.85 2°.8/27.8 17

9 28	2 40.33	+ 7 39.2	2.336	3.204	10.5	21.7
10 8	2 35.63	+ 6 39.1	2.262	3.195	7.6	21.5
10 18	2 29.43	+ 5 35.2	2.214	3.187	4.6	21.3
10 28	2 22.31	+ 4 32.4	2.194	3.179	2.8	21.2
11 7	2 15.03	+ 3 35.9	2.203	3.170	4.7	21.3
11 17	2 8.34	+ 2 50.0	2.241	3.162	7.8	21.5
11 27	2 2.91	+ 2 18.5	2.306	3.153	10.8	21.7
12 7	1 59.23	+ 2 2.7	2.392	3.145	13.3	21.9

98627 2000 WQ_{98} 10 30.7 237°.05 5°.2/27.0 18

9 28	2 46.50	+ 0 39.2	1.925	2.791	12.5	19.5
10 8	2 40.38	− 0 1.0	1.855	2.782	9.4	19.3
10 18	2 32.27	− 0 38.4	1.809	2.773	6.4	19.1
10 28	2 22.94	− 1 7.3	1.791	2.764	5.2	19.0
11 7	2 13.37	− 1 22.9	1.801	2.754	7.0	19.1
11 17	2 4.57	− 1 21.8	1.838	2.744	10.1	19.3
11 27	1 57.43	− 1 2.5	1.900	2.734	13.3	19.5
12 7	1 52.54	− 0 25.9	1.983	2.723	16.1	19.6

486562 2013 HT_{80} 10 30.7 274°.87 0°.3/30.9 17

9 28	2 43.60	+16 32.3	2.033	2.885	12.5	22.3
10 8	2 38.26	+16 14.5	1.958	2.882	9.2	22.1
10 18	2 31.04	+15 47.1	1.908	2.879	5.4	21.8
10 28	2 22.67	+15 12.4	1.884	2.877	1.3	21.6
11 7	2 14.09	+14 34.3	1.890	2.874	3.0	21.7
11 17	2 6.24	+13 57.6	1.924	2.871	7.0	21.9
11 27	1 59.97	+13 27.0	1.985	2.868	10.6	22.1
12 7	1 55.84	+13 6.3	2.069	2.865	13.7	22.4

74134 1998 QG_{72} 10 30.7 96°.84 3°.9/ 3.5 18

9 28	2 45.68	+29 11.7	1.904	2.713	14.9	19.3
10 8	2 39.79	+28 33.6	1.840	2.729	11.7	19.1
10 18	2 31.86	+27 34.0	1.800	2.745	8.1	18.9
10 28	2 22.82	+26 14.4	1.785	2.761	4.8	18.8
11 7	2 13.79	+24 40.5	1.799	2.777	4.2	18.8
11 17	2 5.82	+23 0.1	1.843	2.792	7.0	19.0
11 27	1 59.78	+21 22.2	1.913	2.807	10.3	19.2
12 7	1 56.15	+19 54.5	2.009	2.822	13.4	19.4

292179 2006 SW_{18} 10 30.7 11°.61 0°.4/30.9 18

9 28	2 45.27	+15 42.5	1.746	2.605	13.9	20.5
10 8	2 39.69	+15 38.9	1.679	2.606	10.2	20.3
10 18	2 31.95	+15 25.9	1.634	2.607	6.0	20.0
10 28	2 22.87	+15 5.6	1.616	2.608	1.4	19.7
11 7	2 13.56	+14 41.9	1.626	2.610	3.3	19.9
11 17	2 5.14	+14 19.3	1.664	2.612	7.7	20.1
11 27	1 58.58	+14 2.6	1.727	2.614	11.7	20.4
12 7	1 54.48	+13 55.7	1.812	2.616	15.0	20.6

14017 1994 NS 10 30.7 86°.61 1°.2/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 50.02	+15 30.8	1.309	2.176	17.1	18.0
10 8	2 43.17	+14 21.8	1.271	2.204	12.3	17.8
10 18	2 33.82	+12 59.9	1.255	2.231	6.9	17.5
10 28	2 23.22	+11 32.4	1.265	2.258	1.6	17.3
11 7	2 12.84	+10 8.8	1.303	2.284	4.6	17.6
11 17	2 4.01	+ 8 57.8	1.367	2.310	9.7	17.9
11 27	1 57.69	+ 8 5.9	1.456	2.334	14.0	18.3
12 7	1 54.33	+ 7 35.6	1.565	2.359	17.5	18.6

188831 2006 AY_{75} 10 30.7 323°.40 0°.6/30.1 18

9 28	2 39.25	+12 58.6	2.636	3.493	9.8	20.3
10 8	2 34.78	+12 38.9	2.553	3.481	7.1	20.1
10 18	2 28.92	+12 13.8	2.495	3.469	4.1	19.9
10 28	2 22.21	+11 45.6	2.465	3.458	0.9	19.6
11 7	2 15.30	+11 17.5	2.465	3.447	2.7	19.7
11 17	2 8.88	+10 52.8	2.495	3.436	6.0	19.9
11 27	2 3.57	+10 34.5	2.552	3.425	8.9	20.1
12 7	1 59.85	+10 25.0	2.632	3.414	11.5	20.3

90548 2004 FD_{110} 10 30.7 193°.35 1°.5/29.5 18

9 28	2 45.18	+13 26.1	1.655	2.521	14.2	20.1
10 8	2 39.66	+12 29.1	1.587	2.520	10.3	19.9
10 18	2 31.93	+11 21.5	1.543	2.519	5.8	19.6
10 28	2 22.87	+10 8.8	1.526	2.518	1.7	19.3
11 7	2 13.62	+ 8 58.2	1.537	2.516	4.4	19.5
11 17	2 5.32	+ 7 56.9	1.576	2.515	8.9	19.8
11 27	1 58.95	+ 7 10.9	1.640	2.513	13.0	20.0
12 7	1 55.09	+ 6 43.4	1.725	2.510	16.4	20.3

362231 2009 HT_{102} 10 30.7 223°.52 5°.9/25.4 18

9 28	2 44.37	− 3 40.4	2.339	3.198	10.8	22.1
10 8	2 38.53	− 4 34.8	2.271	3.189	8.4	21.9
10 18	2 31.09	− 5 24.0	2.229	3.179	6.5	21.7
10 28	2 22.69	− 6 2.5	2.214	3.169	6.0	21.7
11 7	2 14.12	− 6 26.0	2.228	3.158	7.4	21.8
11 17	2 6.17	− 6 31.4	2.270	3.147	9.8	21.9
11 27	1 59.57	− 6 18.0	2.336	3.135	12.3	22.1
12 7	1 54.82	− 5 46.7	2.423	3.123	14.5	22.2

264844 2002 QW_{97} 10 30.7 261°.09 6°.8/ 6.2 18

9 28	2 46.19	+37 20.4	2.532	3.278	13.3	20.6
10 8	2 40.28	+37 53.6	2.438	3.267	11.3	20.4
10 18	2 32.32	+38 8.0	2.365	3.256	9.2	20.2
10 28	2 23.00	+38 1.1	2.317	3.244	7.5	20.1
11 7	2 13.27	+37 32.9	2.296	3.233	6.8	20.1
11 17	2 4.18	+36 46.1	2.302	3.221	7.7	20.1
11 27	1 56.68	+35 46.5	2.336	3.209	9.6	20.2
12 7	1 51.43	+34 41.1	2.394	3.197	11.8	20.3

448008 2008 DW_{21} 10 30.7 253°.35 0°.4/30.3 18

9 28	2 42.26	+16 20.2	2.210	3.061	11.7	21.7
10 8	2 37.21	+15 24.1	2.122	3.047	8.5	21.4
10 18	2 30.43	+14 16.6	2.060	3.033	4.9	21.2
10 28	2 22.57	+13 1.5	2.025	3.018	1.0	20.9
11 7	2 14.47	+11 44.1	2.021	3.003	3.1	21.0
11 17	2 7.00	+10 30.6	2.046	2.988	7.0	21.3
11 27	2 0.94	+ 9 26.9	2.099	2.972	10.6	21.4
12 7	1 56.84	+ 8 37.2	2.175	2.956	13.6	21.6

446037 2013 CN_{95} 10 30.7 216°.97 0°.9/29.9 18

9 28	2 43.77	+13 16.3	2.325	3.178	11.1	21.9
10 8	2 38.18	+12 41.4	2.244	3.171	8.0	21.7
10 18	2 30.93	+11 59.4	2.189	3.163	4.6	21.5
10 28	2 22.68	+11 13.4	2.163	3.155	1.1	21.2
11 7	2 14.21	+10 27.6	2.167	3.147	3.2	21.4
11 17	2 6.37	+ 9 46.5	2.200	3.138	6.8	21.6
11 27	1 59.90	+ 9 14.1	2.261	3.128	10.1	21.8
12 7	1 55.33	+ 8 53.3	2.345	3.119	12.9	22.0

478780 2012 UC_{133} 10 30.7 314°.44 6°.0/ 4.8 18

9 28	2 44.23	+32 23.4	1.615	2.422	17.2	20.3
10 8	2 39.42	+32 9.0	1.534	2.416	14.0	20.0
10 18	2 32.01	+31 27.1	1.473	2.409	10.4	19.8
10 28	2 22.93	+30 16.7	1.436	2.402	7.1	19.6
11 7	2 13.54	+28 41.8	1.425	2.396	6.1	19.5
11 17	2 5.20	+26 51.0	1.441	2.390	8.5	19.7
11 27	1 59.09	+24 56.1	1.482	2.384	12.2	19.9
12 7	1 55.89	+23 8.5	1.547	2.379	15.8	20.1

219082 1998 QO_{47} 10 30.7 5°.83 4°.1/27.9 18

9 28	2 36.23	+ 8 16.8	1.204	2.106	15.8	18.5
10 8	2 33.62	+ 7 11.9	1.158	2.108	11.4	18.2
10 18	2 28.61	+ 6 1.6	1.132	2.111	6.8	18.0
10 28	2 22.18	+ 4 54.7	1.130	2.117	4.1	17.9
11 7	2 15.63	+ 4 0.2	1.152	2.125	6.8	18.1
11 17	2 10.16	+ 3 25.1	1.198	2.135	11.2	18.3
11 27	2 6.78	+ 3 13.1	1.265	2.147	15.4	18.6
12 7	2 6.05	+ 3 24.4	1.351	2.161	18.9	18.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
298175 2002 TQ_{165}			10 30.7	46°.19	2°.7/ 1.9	16
	h m	° ′			°	m
9 28	2 44.74	+25 21.4	1.380	2.226	17.6	20.4
10 8	2 39.40	+24 23.2	1.341	2.256	13.3	20.2
10 18	2 31.70	+23 2.0	1.322	2.286	8.4	20.0
10 28	2 22.81	+21 23.0	1.329	2.316	3.8	19.8
11 7	2 14.12	+19 35.3	1.363	2.347	3.8	19.9
11 17	2 6.86	+17 49.7	1.423	2.378	8.1	20.2
11 27	2 1.93	+16 16.2	1.509	2.409	12.2	20.5
12 7	1 59.72	+15 1.3	1.618	2.440	15.7	20.8
30004 Mikewilliams			10 30.7	116°.51	2°.1/29.3	17
9 28	2 47.91	+10 43.2	1.700	2.564	13.9	19.7
10 8	2 41.41	+10 1.7	1.648	2.580	10.0	19.5
10 18	2 32.82	+ 9 14.1	1.619	2.595	5.7	19.3
10 28	2 23.08	+ 8 25.5	1.618	2.609	2.2	19.1
11 7	2 13.32	+ 7 41.7	1.646	2.623	4.6	19.3
11 17	2 4.62	+ 7 7.9	1.701	2.636	8.7	19.6
11 27	1 57.90	+ 6 48.0	1.782	2.649	12.5	19.8
12 7	1 53.64	+ 6 43.8	1.885	2.661	15.6	20.1
359448 2010 MT_{106}			10 30.7	148°.50	0°.1/30.6	18
9 28	2 43.81	+15 18.3	2.092	2.945	12.1	21.0
10 8	2 38.32	+14 54.8	2.022	2.948	8.8	20.8
10 18	2 31.04	+14 22.6	1.977	2.950	5.1	20.6
10 28	2 22.71	+13 44.7	1.959	2.952	1.1	20.3
11 7	2 14.22	+13 5.1	1.971	2.954	3.0	20.4
11 17	2 6.47	+12 28.4	2.011	2.955	6.9	20.7
11 27	2 0.26	+11 59.1	2.079	2.957	10.4	20.9
12 7	1 56.13	+11 40.3	2.169	2.958	13.4	21.1
385875 2006 RJ_{101}			10 30.7	12°.75	19°.6/ 1.8	18
9 28	3 4.54	−27 17.0	0.829	1.664	27.3	18.6
10 8	2 54.72	−26 29.1	0.797	1.670	24.3	18.5
10 18	2 40.72	−24 45.8	0.779	1.678	21.6	18.3
10 28	2 24.72	−21 57.2	0.778	1.690	19.8	18.3
11 7	2 9.38	−18 8.5	0.799	1.704	19.9	18.4
11 17	1 56.93	−13 37.9	0.841	1.721	21.6	18.6
11 27	1 48.72	− 8 48.6	0.904	1.740	24.1	18.8
12 7	1 45.05	− 4 1.0	0.986	1.761	26.7	19.1
92429 2000 JT_{63}			10 30.7	202°.39	2°.0/31.9	18
9 28	2 48.73	+20 41.3	1.440	2.292	16.7	19.5
10 8	2 42.72	+20 25.4	1.370	2.291	12.6	19.2
10 18	2 33.93	+19 51.6	1.321	2.288	7.8	19.0
10 28	2 23.37	+19 1.8	1.296	2.286	2.9	18.7
11 7	2 12.48	+18 1.6	1.299	2.283	3.9	18.7
11 17	2 2.73	+16 58.7	1.329	2.280	8.9	19.0
11 27	1 55.35	+16 2.2	1.383	2.277	13.5	19.3
12 7	1 51.07	+15 18.8	1.459	2.273	17.5	19.5
513644 2011 RX_{8}			10 30.7	121°.68	2°.7/28.5	18
9 28	2 43.49	+ 9 50.6	1.862	2.731	12.7	22.0
10 8	2 38.14	+ 8 45.7	1.803	2.738	9.1	21.8
10 18	2 30.94	+ 7 34.9	1.769	2.744	5.3	21.6
10 28	2 22.69	+ 6 24.2	1.762	2.750	2.7	21.4
11 7	2 14.35	+ 5 20.0	1.784	2.756	4.9	21.6
11 17	2 6.87	+ 4 28.2	1.834	2.762	8.7	21.8
11 27	2 1.07	+ 3 52.8	1.909	2.768	12.1	22.0
12 7	1 57.44	+ 3 35.6	2.006	2.773	15.1	22.3
514441 2016 UL_{33}			10 30.7	2°.14	0°.1/30.8	18
9 28	2 44.09	+16 21.5	1.495	2.363	15.3	20.6
10 8	2 39.13	+15 57.0	1.430	2.362	11.3	20.3
10 18	2 31.76	+15 19.9	1.387	2.362	6.6	20.1
10 28	2 22.89	+14 33.7	1.369	2.362	1.5	19.7
11 7	2 13.79	+13 44.3	1.378	2.362	3.7	19.9
11 17	2 5.70	+12 58.4	1.414	2.363	8.6	20.2
11 27	1 59.70	+12 22.6	1.474	2.365	13.0	20.5
12 7	1 56.43	+12 1.2	1.555	2.367	16.7	20.7
395064 2009 FH_{40}			10 30.7	87°.58	3°.2/28.2	18
9 28	2 44.45	+ 6 45.2	1.921	2.790	12.4	21.0
10 8	2 38.71	+ 6 0.5	1.871	2.804	8.9	20.8
10 18	2 31.21	+ 5 14.1	1.845	2.819	5.4	20.6
10 28	2 22.74	+ 4 31.0	1.848	2.833	3.2	20.5
11 7	2 14.25	+ 3 56.1	1.878	2.847	5.2	20.7
11 17	2 6.65	+ 3 33.3	1.937	2.861	8.6	20.9
11 27	2 0.71	+ 3 25.4	2.021	2.875	11.8	21.1
12 7	1 56.88	+ 3 32.8	2.126	2.888	14.5	21.4
512315 2016 JP_{27}			10 30.7	41°.54	4°.4/28.8	18
9 28	2 48.51	+ 6 28.8	1.003	1.897	18.8	19.7
10 8	2 42.71	+ 5 58.8	0.968	1.914	13.6	19.4
10 18	2 33.84	+ 5 27.7	0.954	1.931	8.1	19.2
10 28	2 23.31	+ 5 2.7	0.961	1.949	4.4	19.1
11 7	2 12.88	+ 4 50.7	0.993	1.968	7.2	19.3
11 17	2 4.17	+ 4 56.2	1.048	1.988	12.2	19.6
11 27	1 58.36	+ 5 21.0	1.124	2.008	16.8	20.0
12 7	1 55.94	+ 6 3.8	1.218	2.029	20.5	20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
301470 2009 DN_{126}			10 30.7	340°.07	3°.2/28.4	18
	h m	° ′			°	m
9 28	2 39.40	+10 42.2	1.330	2.220	15.4	20.4
10 8	2 35.96	+ 9 30.6	1.262	2.207	11.2	20.1
10 18	2 30.04	+ 8 8.4	1.216	2.195	6.5	19.8
10 28	2 22.54	+ 6 43.5	1.195	2.184	3.2	19.6
11 7	2 14.72	+ 5 25.7	1.199	2.175	6.2	19.8
11 17	2 7.85	+ 4 23.9	1.228	2.166	11.0	20.0
11 27	2 3.06	+ 3 44.7	1.280	2.158	15.5	20.3
12 7	2 1.03	+ 3 30.5	1.350	2.152	19.3	20.5
181949 1999 TF_{219}			10 30.7	353°.79	0°.3/30.6	18
9 28	2 43.29	+12 50.6	0.937	1.837	19.4	19.1
10 8	2 39.67	+13 9.2	0.880	1.828	14.3	18.7
10 18	2 32.57	+13 19.0	0.841	1.821	8.3	18.4
10 28	2 23.13	+13 22.4	0.823	1.816	1.8	18.0
11 7	2 13.15	+13 24.2	0.828	1.813	5.0	18.2
11 17	2 4.55	+13 29.9	0.854	1.811	11.4	18.5
11 27	1 58.93	+13 45.1	0.900	1.812	17.0	18.9
12 7	1 57.12	+14 13.2	0.964	1.814	21.7	19.2
431966 2008 UD_{121}			10 30.7	57°.38	4°.1/ 2.5	18
9 28	2 51.44	+25 17.6	1.380	2.216	18.2	20.5
10 8	2 44.27	+25 21.4	1.345	2.252	13.8	20.3
10 18	2 34.50	+25 3.5	1.332	2.288	9.2	20.1
10 28	2 23.43	+24 25.3	1.343	2.325	5.0	20.0
11 7	2 12.60	+23 32.2	1.381	2.361	4.7	20.1
11 17	2 3.40	+22 32.4	1.445	2.396	8.3	20.4
11 27	1 56.82	+21 34.9	1.535	2.432	12.2	20.7
12 7	1 53.29	+20 46.9	1.646	2.467	15.5	21.0
231450 2007 HK_{58}			10 30.7	112°.97	3°.3/27.9	18
9 28	2 44.28	+ 3 25.8	2.442	3.302	10.4	20.1
10 8	2 38.31	+ 3 2.2	2.386	3.313	7.6	19.9
10 18	2 30.90	+ 2 39.8	2.356	3.324	4.8	19.8
10 28	2 22.69	+ 2 22.1	2.354	3.335	3.3	19.7
11 7	2 14.42	+ 2 12.3	2.383	3.345	4.8	19.8
11 17	2 6.84	+ 2 12.6	2.440	3.355	7.5	20.0
11 27	2 0.59	+ 2 24.5	2.524	3.365	10.2	20.2
12 7	1 56.10	+ 2 48.1	2.632	3.375	12.5	20.4
145636 2597 $P–L$			10 30.7	36°.10	2°.2/31.6	18
9 28	2 51.31	+17 1.2	0.961	1.842	20.7	18.9
10 8	2 45.00	+17 43.7	0.928	1.864	15.3	18.6
10 18	2 35.27	+18 11.0	0.914	1.888	9.2	18.4
10 28	2 23.64	+18 23.1	0.922	1.913	3.2	18.2
11 7	2 12.12	+18 23.9	0.953	1.938	4.6	18.3
11 17	2 2.54	+18 19.4	1.009	1.965	10.2	18.7
11 27	1 56.20	+18 17.0	1.086	1.992	15.2	19.1
12 7	1 53.63	+18 22.4	1.182	2.020	19.3	19.5
380372 2002 TZ_{222}			10 30.7	357°.15	6°.8/26.9	18
9 28	2 43.31	+ 2 21.2	1.136	2.033	16.9	19.6
10 8	2 38.97	+ 1 16.8	1.085	2.029	12.6	19.4
10 18	2 31.82	+ 0 14.3	1.054	2.027	8.6	19.1
10 28	2 22.95	− 0 36.5	1.047	2.025	6.9	19.0
11 7	2 13.85	− 1 6.5	1.063	2.024	9.4	19.2
11 17	2 5.99	− 1 10.4	1.102	2.025	13.6	19.4
11 27	2 0.60	− 0 46.7	1.161	2.026	17.8	19.7
12 7	1 58.31	+ 0 2.0	1.237	2.029	21.3	19.9
274258 2008 OP_{21}			10 30.7	171°.84	1°.2/31.7	18
9 28	2 47.73	+19 14.6	2.024	2.862	13.1	21.9
10 8	2 41.27	+18 58.3	1.951	2.866	9.7	21.7
10 18	2 32.81	+18 29.9	1.902	2.869	5.9	21.5
10 28	2 23.15	+17 51.3	1.881	2.871	2.0	21.2
11 7	2 13.31	+17 6.4	1.889	2.873	3.0	21.3
11 17	2 4.30	+16 20.3	1.927	2.874	6.9	21.5
11 27	1 57.02	+15 38.7	1.992	2.874	10.6	21.8
12 7	1 52.05	+15 6.2	2.081	2.874	13.7	22.0
378562 2008 CG_{184}			10 30.7	272°.79	0°.4/30.9	18
9 28	2 49.23	+15 25.1	1.441	2.305	16.0	21.2
10 8	2 43.17	+15 29.0	1.366	2.295	11.9	20.9
10 18	2 34.29	+15 22.4	1.312	2.286	7.0	20.6
10 28	2 23.53	+15 7.1	1.284	2.277	1.7	20.2
11 7	2 12.26	+14 47.0	1.283	2.267	3.9	20.4
11 17	2 1.99	+14 27.3	1.308	2.258	9.2	20.7
11 27	1 54.02	+14 14.3	1.358	2.248	14.0	20.9
12 7	1 49.16	+14 12.4	1.429	2.239	18.0	21.2
272158 2005 NX_{87}			10 30.7	110°.47	2°.7/28.9	16
9 28	2 47.87	+ 9 18.3	1.572	2.442	14.6	21.0
10 8	2 41.55	+ 8 34.3	1.521	2.455	10.5	20.8
10 18	2 33.00	+ 7 45.3	1.492	2.467	6.1	20.6
10 28	2 23.19	+ 6 57.0	1.490	2.479	2.8	20.4
11 7	2 13.34	+ 6 15.5	1.516	2.491	5.3	20.6
11 17	2 4.61	+ 5 46.3	1.569	2.502	9.5	20.9
11 27	1 57.95	+ 5 32.9	1.647	2.513	13.3	21.2
12 7	1 53.91	+ 5 36.6	1.746	2.524	16.5	21.4

20318 1998 *GZ* 10 30.7 192°.03 0°.5/31.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 49.90	+15 50.6	1.544	2.402	15.5	19.1
10 8	2 43.39	+15 50.1	1.475	2.401	11.4	18.8
10 18	2 34.28	+15 38.9	1.428	2.400	6.7	18.6
10 28	2 23.51	+15 19.0	1.407	2.399	1.6	18.3
11 7	2 12.42	+14 54.4	1.414	2.398	3.7	18.4
11 17	2 2.37	+14 30.3	1.448	2.396	8.7	18.7
11 27	1 54.54	+14 12.7	1.508	2.394	13.1	19.0
12 7	1 49.62	+14 5.8	1.589	2.392	16.8	19.2

342412 2008 UL_{65} 10 30.7 71°.19 3°.8/ 2.9 18

9 28	2 45.21	+27 39.1	1.611	2.438	16.4	20.1
10 8	2 39.82	+27 4.2	1.549	2.450	12.7	19.8
10 18	2 32.09	+26 5.9	1.509	2.462	8.6	19.6
10 28	2 23.01	+24 46.3	1.493	2.474	4.8	19.4
11 7	2 13.88	+23 11.7	1.505	2.486	4.3	19.4
11 17	2 5.91	+21 31.1	1.545	2.497	7.7	19.7
11 27	2 0.09	+19 54.8	1.611	2.509	11.6	19.9
12 7	1 56.96	+18 31.1	1.699	2.521	15.1	20.2

210066 2006 QK_{6} 10 30.7 36°.41 6°.0/ 3.6 18

9 28	2 48.29	+28 0.7	1.451	2.279	17.8	19.2
10 8	2 42.38	+28 44.4	1.400	2.296	14.2	19.0
10 18	2 33.71	+29 6.2	1.370	2.314	10.2	18.9
10 28	2 23.39	+29 4.1	1.363	2.333	6.9	18.7
11 7	2 12.90	+28 40.4	1.381	2.352	6.2	18.7
11 17	2 3.73	+28 1.0	1.425	2.372	8.9	18.9
11 27	1 57.06	+27 14.8	1.494	2.393	12.4	19.2
12 7	1 53.49	+26 30.4	1.584	2.414	15.6	19.5

133461 2003 SS_{231} 10 30.7 53°.97 0°.5/30.4 18

9 28	2 46.84	+13 40.8	1.527	2.394	15.1	20.2
10 8	2 40.95	+13 28.9	1.474	2.406	10.9	19.9
10 18	2 32.73	+13 8.4	1.443	2.419	6.3	19.7
10 28	2 23.16	+12 42.8	1.439	2.431	1.3	19.4
11 7	2 13.51	+12 16.6	1.461	2.444	3.8	19.6
11 17	2 4.97	+11 55.2	1.511	2.457	8.5	19.9
11 27	1 58.56	+11 43.0	1.585	2.471	12.6	20.2
12 7	1 54.83	+11 43.1	1.681	2.484	16.1	20.5

93799 2000 WN_{46} 10 30.7 311°.90 1°.4/29.7 18

9 28	2 43.73	+13 8.2	1.556	2.428	14.6	19.3
10 8	2 38.86	+12 26.5	1.484	2.420	10.6	19.0
10 18	2 31.65	+11 34.7	1.435	2.412	6.1	18.8
10 28	2 22.96	+10 37.6	1.412	2.405	1.7	18.5
11 7	2 13.96	+ 9 41.7	1.417	2.397	4.4	18.6
11 17	2 5.88	+ 8 54.1	1.447	2.390	9.2	18.9
11 27	1 59.76	+ 8 20.5	1.502	2.383	13.5	19.1
12 7	1 56.26	+ 8 4.5	1.578	2.377	17.1	19.4

453554 2009 XS_{9} 10 30.7 333°.52 11°.6/21.8 16

9 28	2 41.56	−12 45.6	1.545	2.412	15.0	19.9
10 8	2 37.39	−14 0.4	1.476	2.381	13.0	19.7
10 18	2 30.88	−15 0.3	1.429	2.352	11.7	19.5
10 28	2 22.81	−15 34.7	1.404	2.324	11.9	19.5
11 7	2 14.32	−15 36.2	1.402	2.297	13.6	19.5
11 17	2 6.60	−15 1.6	1.421	2.271	16.1	19.6
11 27	2 0.77	−13 52.0	1.459	2.247	18.9	19.7
12 7	1 57.53	−12 12.7	1.514	2.224	21.5	19.9

148643 2001 ST_{45} 10 30.7 76°.51 3°.0/28.8 18

9 28	2 49.50	+ 8 39.9	1.475	2.346	15.3	20.0
10 8	2 42.60	+ 7 55.0	1.440	2.375	10.9	19.9
10 18	2 33.50	+ 7 6.6	1.429	2.404	6.3	19.7
10 28	2 23.30	+ 6 20.8	1.443	2.432	3.1	19.5
11 7	2 13.28	+ 5 43.6	1.486	2.460	5.5	19.8
11 17	2 4.60	+ 5 19.9	1.555	2.487	9.6	20.1
11 27	1 58.16	+ 5 12.5	1.649	2.514	13.4	20.4
12 7	1 54.39	+ 5 21.9	1.763	2.541	16.4	20.6

437214 2012 WE_{17} 10 30.7 22°.85 2°.9/29.6 18

9 28	2 49.01	+ 6 38.7	1.210	2.094	17.0	19.8
10 8	2 42.95	+ 6 53.1	1.163	2.103	12.4	19.6
10 18	2 34.05	+ 7 7.5	1.136	2.113	7.3	19.3
10 28	2 23.48	+ 7 25.4	1.134	2.124	3.1	19.1
11 7	2 12.78	+ 7 49.9	1.157	2.136	5.6	19.3
11 17	2 3.47	+ 8 23.6	1.205	2.149	10.6	19.6
11 27	1 56.74	+ 9 7.7	1.277	2.163	15.0	19.9
12 7	1 53.21	+10 2.3	1.368	2.177	18.7	20.2

324250 2006 BX_{181} 10 30.7 27°.16 5°.0/26.5 18

9 28	2 41.27	+ 1 36.2	1.999	2.873	11.7	20.7
10 8	2 36.47	+ 0 35.6	1.944	2.876	8.7	20.5
10 18	2 30.00	− 0 23.1	1.915	2.880	6.0	20.4
10 28	2 22.58	− 1 13.8	1.912	2.885	5.0	20.3
11 7	2 15.07	− 1 51.2	1.938	2.889	6.7	20.4
11 17	2 8.31	− 2 11.7	1.990	2.894	9.6	20.6
11 27	2 3.04	− 2 13.4	2.066	2.898	12.4	20.8
12 7	1 59.72	− 1 56.9	2.163	2.904	14.9	21.0

454520 2014 OM_{224} 10 30.7 353°.08 0°.9/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 44.44	+12 11.6	1.835	2.700	13.1	21.1
10 8	2 39.05	+12 3.7	1.766	2.698	9.5	20.9
10 18	2 31.63	+11 49.7	1.721	2.696	5.4	20.7
10 28	2 22.97	+11 32.6	1.702	2.694	1.3	20.4
11 7	2 14.06	+11 16.0	1.712	2.693	3.6	20.6
11 17	2 5.96	+11 3.9	1.749	2.693	7.8	20.8
11 27	1 59.58	+11 0.0	1.812	2.692	11.6	21.1
12 7	1 55.50	+11 6.7	1.898	2.692	14.8	21.3

484025 2006 DH_{145} 10 30.7 156°.87 0°.5/30.2 18

9 28	2 41.99	+13 42.0	2.746	3.594	9.7	22.2
10 8	2 36.66	+13 15.6	2.675	3.599	7.0	22.0
10 18	2 30.01	+12 43.5	2.631	3.604	4.0	21.9
10 28	2 22.59	+12 8.0	2.616	3.608	0.9	21.6
11 7	2 15.07	+11 32.6	2.631	3.612	2.6	21.8
11 17	2 8.11	+11 0.4	2.677	3.616	5.7	22.0
11 27	2 2.30	+10 34.7	2.751	3.620	8.5	22.2
12 7	1 58.08	+10 17.7	2.849	3.623	10.9	22.4

19515 1998 QM_{76} 10 30.7 232°.36 2°.3/ 1.8 18

9 28	2 44.45	+23 42.5	2.079	2.907	13.2	17.5
10 8	2 39.00	+23 11.8	1.993	2.899	10.1	17.3
10 18	2 31.59	+22 24.6	1.930	2.890	6.5	17.0
10 28	2 22.96	+21 22.7	1.895	2.881	3.0	16.8
11 7	2 14.07	+20 10.2	1.888	2.871	3.2	16.8
11 17	2 5.92	+18 53.4	1.911	2.861	6.7	17.0
11 27	1 59.41	+17 39.6	1.962	2.851	10.4	17.2
12 7	1 55.11	+16 35.0	2.036	2.840	13.6	17.4

75811 2000 AZ_{244} 10 30.7 317°.75 8°.4/24.0 18

9 28	2 41.07	− 2 31.3	1.480	2.365	14.4	18.1
10 8	2 37.06	− 4 8.5	1.410	2.343	11.3	17.9
10 18	2 30.70	− 5 42.4	1.364	2.321	8.9	17.7
10 28	2 22.80	− 7 2.4	1.341	2.299	8.7	17.6
11 7	2 14.50	− 7 58.8	1.344	2.278	10.9	17.7
11 17	2 7.00	− 8 25.3	1.370	2.257	14.2	17.9
11 27	2 1.41	− 8 19.6	1.416	2.238	17.7	18.0
12 7	1 58.42	− 7 44.0	1.480	2.219	20.7	18.2

446679 2015 OH_{11} 10 30.7 169°.91 5°.0/26.7 18

9 28	2 45.20	+ 1 34.8	1.993	2.860	12.1	21.6
10 8	2 39.32	+ 0 36.9	1.935	2.863	9.0	21.4
10 18	2 31.66	− 0 19.2	1.901	2.866	6.1	21.3
10 28	2 22.96	− 1 7.5	1.895	2.868	5.0	21.2
11 7	2 14.15	− 1 42.6	1.917	2.869	6.8	21.3
11 17	2 6.15	− 2 0.9	1.967	2.870	9.7	21.5
11 27	1 59.73	− 2 0.5	2.042	2.871	12.7	21.7
12 7	1 55.42	− 1 42.0	2.138	2.871	15.3	21.9

352357 2007 VA_{185} 10 30.7 8°.57 1°.8/29.6 18

9 28	2 45.78	+10 11.1	1.626	2.497	14.1	20.2
10 8	2 40.19	+ 9 56.4	1.563	2.497	10.2	20.0
10 18	2 32.35	+ 9 36.9	1.522	2.498	5.9	19.8
10 28	2 23.13	+ 9 16.2	1.508	2.499	2.0	19.5
11 7	2 13.70	+ 8 58.9	1.521	2.501	4.5	19.7
11 17	2 5.21	+ 8 49.2	1.562	2.502	8.8	20.0
11 27	1 58.67	+ 8 50.9	1.627	2.504	12.8	20.2
12 7	1 54.67	+ 9 5.6	1.713	2.507	16.2	20.4

500756 2013 AD_{100} 10 30.7 199°.20 14°.6/ 9.9 17

9 28	2 56.25	+45 47.8	1.334	2.071	23.6	21.2
10 8	2 49.81	+47 10.8	1.264	2.070	21.1	21.0
10 18	2 38.85	+47 57.1	1.210	2.069	18.4	20.8
10 28	2 24.67	+47 55.8	1.173	2.067	16.0	20.7
11 7	2 9.63	+47 2.5	1.156	2.065	14.7	20.6
11 17	1 56.34	+45 22.2	1.161	2.063	15.0	20.6
11 27	1 46.95	+43 10.0	1.187	2.061	16.9	20.7
12 7	1 42.40	+40 45.1	1.234	2.058	19.5	20.9

267956 2004 FB_{21} 10 30.7 218°.75 4°.2/ 2.5 18

9 28	2 49.12	+25 11.5	1.605	2.436	16.3	20.4
10 8	2 42.99	+25 29.0	1.531	2.433	12.7	20.2
10 18	2 34.16	+25 28.1	1.477	2.431	8.7	20.0
10 28	2 23.57	+25 7.6	1.449	2.428	5.1	19.8
11 7	2 12.58	+24 30.1	1.447	2.425	4.8	19.7
11 17	2 2.60	+23 41.4	1.473	2.422	8.3	19.9
11 27	1 54.87	+22 49.8	1.524	2.419	12.4	20.2
12 7	1 50.13	+22 3.4	1.597	2.416	16.0	20.4

118092 1150 $T\text{-}_{3}$ 10 30.7 45°.93 6°.5/ 3.4 17 R

9 28	2 50.36	+27 39.7	1.176	2.017	20.3	19.1
10 8	2 44.48	+28 21.4	1.123	2.027	16.1	18.9
10 18	2 35.20	+28 37.5	1.088	2.038	11.5	18.6
10 28	2 23.80	+28 25.5	1.076	2.050	7.5	18.5
11 7	2 12.11	+27 47.8	1.087	2.062	6.8	18.5
11 17	2 2.01	+26 52.6	1.123	2.074	10.1	18.7
11 27	1 54.93	+25 51.6	1.182	2.087	14.4	19.0
12 7	1 51.59	+24 55.7	1.261	2.100	18.2	19.3

191262 2003 BW_{54} 10 30.7 90°.94 8°.6/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 51.68	+37 18.7	1.672	2.441	18.3	19.9
10 8	2 44.89	+37 56.6	1.611	2.457	15.4	19.7
10 18	2 35.21	+38 6.9	1.570	2.473	12.3	19.6
10 28	2 23.78	+37 45.8	1.551	2.488	9.7	19.5
11 7	2 12.15	+36 54.7	1.557	2.503	8.6	19.4
11 17	2 1.87	+35 40.0	1.590	2.518	9.8	19.5
11 27	1 54.18	+34 12.3	1.647	2.533	12.2	19.7
12 7	1 49.71	+32 42.9	1.727	2.547	15.0	19.9

34598 2000 TC_{38} 10 30.8 17°.47 0°.8/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.31	+16 2.9	1.965	2.813	13.0	18.8
10 8	2 41.10	+16 17.7	1.892	2.814	9.6	18.6
10 18	2 32.82	+16 24.5	1.844	2.814	5.7	18.3
10 28	2 23.27	+16 24.3	1.823	2.815	1.6	18.1
11 7	2 13.45	+16 19.4	1.832	2.816	3.0	18.2
11 17	2 4.42	+16 13.1	1.869	2.816	7.1	18.4
11 27	1 57.10	+16 9.4	1.933	2.817	10.8	18.7
12 7	1 52.11	+16 11.8	2.020	2.818	13.9	18.9

271530 2004 HS_{18} 10 30.8 241°.35 2°.4/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.16	+21 57.0	1.792	2.628	14.6	21.5
10 8	2 42.09	+21 50.7	1.705	2.616	11.2	21.2
10 18	2 33.58	+21 28.8	1.640	2.602	7.2	21.0
10 28	2 23.46	+20 51.8	1.602	2.588	3.2	20.7
11 7	2 12.89	+20 3.2	1.591	2.574	3.6	20.7
11 17	2 3.12	+19 8.8	1.609	2.559	7.8	20.9
11 27	1 55.28	+18 16.1	1.654	2.544	11.9	21.1
12 7	1 50.11	+17 31.8	1.721	2.528	15.6	21.3

441239 2007 VA_{220} 10 30.8 354°.26 3°.0/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.85	+ 7 38.3	1.619	2.494	13.9	20.7
10 8	2 39.52	+ 7 11.5	1.556	2.492	10.1	20.5
10 18	2 31.98	+ 6 41.8	1.515	2.491	6.0	20.3
10 28	2 23.10	+ 6 14.0	1.501	2.489	3.0	20.1
11 7	2 13.99	+ 5 53.3	1.514	2.489	5.3	20.2
11 17	2 5.79	+ 5 43.9	1.554	2.488	9.4	20.5
11 27	1 59.50	+ 5 49.1	1.618	2.488	13.3	20.7
12 7	1 55.72	+ 6 9.6	1.703	2.489	16.6	20.9

115520 2003 UO_{37} 10 30.8 17°.55 0°.6/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.18	+14 39.1	1.428	2.295	16.0	18.8
10 8	2 42.27	+15 1.8	1.368	2.299	11.7	18.6
10 18	2 33.70	+15 15.9	1.329	2.303	6.9	18.3
10 28	2 23.49	+15 22.8	1.316	2.308	1.7	18.0
11 7	2 13.00	+15 25.1	1.329	2.314	3.7	18.2
11 17	2 3.62	+15 26.9	1.369	2.320	8.7	18.5
11 27	1 56.55	+15 32.7	1.434	2.327	13.2	18.8
12 7	1 52.44	+15 46.3	1.519	2.335	16.9	19.0

231748 1999 TR_{137} 10 30.8 341°.10 2°.0/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.92	+18 46.2	1.269	2.142	17.2	20.5
10 8	2 38.93	+18 55.8	1.196	2.128	13.0	20.2
10 18	2 32.03	+18 50.4	1.143	2.115	8.0	19.9
10 28	2 23.17	+18 30.9	1.114	2.104	3.0	19.6
11 7	2 13.75	+18 1.5	1.109	2.094	4.1	19.6
11 17	2 5.35	+17 28.6	1.128	2.085	9.4	19.9
11 27	1 59.33	+17 0.1	1.171	2.077	14.4	20.1
12 7	1 56.52	+16 42.5	1.233	2.071	18.7	20.4

95221 2002 CW_{15} 10 30.8 247°.01 4°.7/26.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.71	+ 1 59.6	2.133	3.003	11.2	20.0
10 8	2 36.77	+ 0 54.3	2.070	3.001	8.4	19.8
10 18	2 30.22	− 0 9.9	2.033	2.999	5.7	19.7
10 28	2 22.71	− 1 7.4	2.024	2.996	4.8	19.6
11 7	2 15.07	− 1 52.6	2.043	2.994	6.5	19.7
11 17	2 8.10	− 2 21.5	2.089	2.991	9.3	19.9
11 27	2 2.53	− 2 31.9	2.161	2.989	12.1	20.1
12 7	1 58.86	− 2 23.9	2.253	2.986	14.6	20.3

135875 2002 TY_{34} 10 30.8 325°.13 0°.8/31.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.76	+17 0.7	1.789	2.643	13.9	20.3
10 8	2 40.15	+16 56.8	1.717	2.641	10.2	20.0
10 18	2 32.37	+16 42.4	1.668	2.639	6.1	19.8
10 28	2 23.21	+16 19.4	1.645	2.637	1.7	19.5
11 7	2 13.79	+15 51.3	1.650	2.635	3.2	19.6
11 17	2 5.20	+15 23.1	1.684	2.633	7.6	19.9
11 27	1 58.44	+14 59.9	1.743	2.631	11.5	20.1
12 7	1 54.14	+14 45.9	1.825	2.629	14.9	20.3

94028 2000 XM_{39} 10 30.8 306°.82 2°.2/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.70	+17 49.4	1.542	2.395	15.7	18.1
10 8	2 43.66	+18 28.2	1.456	2.378	11.9	17.8
10 18	2 34.75	+18 57.5	1.392	2.360	7.4	17.5
10 28	2 23.80	+19 16.4	1.354	2.343	3.0	17.2
11 7	2 12.14	+19 25.9	1.343	2.326	4.0	17.2
11 17	2 1.26	+19 29.1	1.359	2.310	8.8	17.5
11 27	1 52.55	+19 31.2	1.400	2.294	13.4	17.7
12 7	1 46.92	+19 37.6	1.462	2.278	17.4	17.9

228994 2003 WO_{87} 10 30.8 332°.20 6°.7/ 2.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.38	+27 4.2	1.645	2.470	16.2	18.6
10 8	2 42.27	+28 24.4	1.545	2.438	13.2	18.4
10 18	2 34.16	+29 31.6	1.465	2.407	10.0	18.1
10 28	2 23.73	+30 20.9	1.410	2.377	7.2	17.9
11 7	2 12.21	+30 49.4	1.381	2.347	7.0	17.8
11 17	2 1.17	+30 57.7	1.378	2.319	9.7	17.9
11 27	1 52.17	+30 51.3	1.399	2.292	13.5	18.0
12 7	1 46.35	+30 38.1	1.441	2.267	17.1	18.2

40108 1998 QU_{7} 10 30.8 28°.09 6°.3/25.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.77	− 2 3.1	1.928	2.801	12.1	18.0
10 8	2 36.90	− 3 10.3	1.878	2.805	9.3	17.8
10 18	2 30.31	− 4 12.2	1.852	2.809	7.0	17.7
10 28	2 22.75	− 5 2.1	1.854	2.814	6.4	17.7
11 7	2 15.10	− 5 34.7	1.882	2.819	8.0	17.8
11 17	2 8.25	− 5 46.7	1.935	2.824	10.7	18.0
11 27	2 2.94	− 5 37.3	2.013	2.829	13.3	18.2
12 7	1 59.65	− 5 7.9	2.110	2.835	15.7	18.3

409753 2006 DV_{74} 10 30.8 176°.87 0°.6/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.34	+13 29.7	2.667	3.517	10.0	22.2
10 8	2 37.00	+13 4.2	2.594	3.518	7.2	22.0
10 18	2 30.29	+12 32.7	2.546	3.519	4.1	21.8
10 28	2 22.75	+11 58.0	2.527	3.520	0.9	21.6
11 7	2 15.09	+11 23.3	2.539	3.520	2.7	21.7
11 17	2 7.99	+10 52.0	2.581	3.520	5.9	22.0
11 27	2 2.07	+10 27.3	2.650	3.520	8.8	22.1
12 7	1 57.77	+10 11.7	2.745	3.519	11.2	22.3

164605 4097 $T\text{-}_{2}$ 10 30.8 2°.91 3°.9/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.05	+21 19.8	1.470	2.316	16.7	19.2
10 8	2 43.87	+22 15.8	1.401	2.315	12.8	18.9
10 18	2 34.80	+22 58.4	1.354	2.315	8.5	18.7
10 28	2 23.80	+23 25.5	1.332	2.316	4.6	18.4
11 7	2 12.32	+23 37.4	1.337	2.317	4.8	18.5
11 17	2 1.89	+23 37.4	1.368	2.319	8.8	18.7
11 27	1 53.85	+23 31.8	1.424	2.321	13.0	19.0
12 7	1 48.99	+23 27.4	1.502	2.324	16.7	19.2

387750 2003 QC_{44} 10 30.8 43°.17 2°.8/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.53	+ 7 44.6	1.284	2.163	16.6	19.4
10 8	2 43.01	+ 7 40.7	1.247	2.186	11.9	19.2
10 18	2 33.95	+ 7 34.8	1.233	2.209	6.9	19.0
10 28	2 23.54	+ 7 31.1	1.243	2.233	2.9	18.8
11 7	2 13.24	+ 7 33.9	1.280	2.258	5.4	19.0
11 17	2 4.39	+ 7 46.3	1.343	2.283	10.0	19.4
11 27	1 58.01	+ 8 10.6	1.429	2.309	14.1	19.7
12 7	1 54.58	+ 8 47.0	1.535	2.335	17.5	20.0

336109 2008 JN_{8} 10 30.8 180°.64 4°.8/27.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.24	+ 3 34.1	1.752	2.621	13.4	21.1
10 8	2 41.07	+ 2 36.6	1.691	2.622	9.9	20.9
10 18	2 32.81	+ 1 39.1	1.654	2.623	6.4	20.7
10 28	2 23.32	+ 0 48.1	1.645	2.623	4.8	20.6
11 7	2 13.67	+ 0 9.7	1.663	2.622	6.8	20.7
11 17	2 4.94	− 0 11.4	1.709	2.622	10.3	20.9
11 27	1 58.04	− 0 13.0	1.779	2.620	13.7	21.1
12 7	1 53.55	+ 0 4.7	1.869	2.618	16.6	21.3

72314 2001 BR_{43} 10 30.8 116°.81 6°.2/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.94	+33 24.0	1.943	2.727	15.6	18.7
10 8	2 41.77	+33 34.7	1.873	2.736	12.8	18.5
10 18	2 33.30	+33 22.8	1.824	2.745	9.7	18.3
10 28	2 23.43	+32 47.0	1.799	2.754	7.1	18.2
11 7	2 13.38	+31 49.7	1.801	2.762	6.2	18.2
11 17	2 4.35	+30 36.5	1.832	2.771	7.9	18.3
11 27	1 57.35	+29 16.1	1.888	2.779	10.7	18.5
12 7	1 52.98	+27 57.1	1.969	2.786	13.5	18.7

13080 1992 EZ_{7} 10 30.8 330°.18 7°.6/24.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.51	+ 1 11.0	1.352	2.246	14.9	17.7
10 8	2 36.06	− 0 38.0	1.287	2.228	11.4	17.5
10 18	2 30.20	− 2 28.2	1.245	2.212	8.4	17.3
10 28	2 22.78	− 4 7.7	1.228	2.196	7.8	17.2
11 7	2 15.02	− 5 25.3	1.236	2.181	10.3	17.3
11 17	2 8.15	− 6 13.2	1.266	2.167	14.1	17.5
11 27	2 3.29	− 6 27.9	1.317	2.155	17.8	17.7
12 7	2 1.11	− 6 10.8	1.385	2.143	21.0	17.9

158114 2001 BR_{77} 10 30.8 277°.93 0°.5/31.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.04	+17 8.3	2.198	3.046	11.8	20.9
10 8	2 37.92	+16 48.9	2.111	3.032	8.8	20.7
10 18	2 31.01	+16 19.7	2.048	3.018	5.2	20.5
10 28	2 22.95	+15 42.7	2.012	3.004	1.4	20.2
11 7	2 14.59	+15 1.7	2.006	2.990	2.8	20.3
11 17	2 6.82	+14 21.0	2.028	2.975	6.6	20.5
11 27	2 0.49	+13 45.6	2.078	2.961	10.2	20.7
12 7	1 56.16	+13 19.4	2.152	2.946	13.3	20.9

515048 2010 EL_{129} 10 30.8 314°.40 5°.0/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 55.07	+24 15.8	1.749	2.567	15.7	20.6
10 8	2 47.36	+25 29.7	1.672	2.567	12.3	20.4
10 18	2 36.79	+26 30.4	1.618	2.566	8.7	20.2
10 28	2 24.26	+27 14.1	1.591	2.565	5.6	20.0
11 7	2 11.14	+27 39.4	1.593	2.565	5.5	20.0
11 17	1 58.90	+27 48.3	1.623	2.564	8.5	20.2
11 27	1 48.91	+27 46.5	1.680	2.564	12.1	20.4
12 7	1 41.98	+27 41.2	1.759	2.563	15.4	20.6

160160 2001 SL_{116} 10 30.8 118°.66 1°.1/31.5 17

9 28	2 52.74	+18 22.0	1.498	2.347	16.3	20.5
10 8	2 45.32	+18 10.3	1.445	2.365	12.1	20.3
10 18	2 35.33	+17 44.5	1.414	2.383	7.2	20.1
10 28	2 23.87	+17 7.1	1.409	2.400	2.2	19.8
11 7	2 12.37	+16 23.2	1.432	2.416	3.6	19.9
11 17	2 2.21	+15 39.5	1.483	2.431	8.4	20.3
11 27	1 54.46	+15 2.8	1.559	2.446	12.7	20.6
12 7	1 49.70	+14 38.1	1.657	2.459	16.3	20.8

62914 2000 VX_2 10 30.8 16°.15 1°.4/29.9 18

9 28	2 45.90	+10 17.9	1.777	2.643	13.3	18.4
10 8	2 40.15	+10 17.7	1.714	2.646	9.7	18.2
10 18	2 32.32	+10 13.5	1.674	2.649	5.6	18.0
10 28	2 23.23	+10 8.0	1.661	2.652	1.7	17.7
11 7	2 13.94	+10 4.6	1.676	2.656	3.9	17.9
11 17	2 5.52	+10 6.7	1.719	2.661	8.1	18.2
11 27	1 58.90	+10 17.2	1.788	2.665	11.9	18.4
12 7	1 54.66	+10 37.8	1.878	2.670	15.0	18.6

454036 2012 FT_{32} 10 30.8 171°.20 4°.7/26.1 18

9 28	2 41.89	− 0 22.1	2.495	3.358	10.1	21.8
10 8	2 36.69	− 1 16.8	2.435	3.360	7.6	21.6
10 18	2 30.11	− 2 8.6	2.402	3.361	5.4	21.5
10 28	2 22.73	− 2 52.6	2.397	3.362	4.8	21.4
11 7	2 15.25	− 3 24.7	2.421	3.363	6.2	21.5
11 17	2 8.38	− 3 41.9	2.473	3.364	8.5	21.7
11 27	2 2.73	− 3 43.0	2.550	3.365	10.9	21.9
12 7	1 58.73	− 3 28.2	2.649	3.365	13.0	22.0

31963 2000 GE_{154} 10 30.8 165°.75 3°.1/ 2.1 18

9 28	2 47.84	+24 26.3	1.795	2.623	14.9	19.7
10 8	2 41.71	+24 14.6	1.722	2.626	11.5	19.5
10 18	2 33.28	+23 45.1	1.672	2.629	7.6	19.3
10 28	2 23.45	+22 58.7	1.648	2.632	3.9	19.0
11 7	2 13.40	+21 59.4	1.653	2.634	3.8	19.0
11 17	2 4.31	+20 53.7	1.685	2.636	7.4	19.3
11 27	1 57.21	+19 49.5	1.745	2.637	11.3	19.5
12 7	1 52.72	+18 53.8	1.827	2.638	14.7	19.7

424274 2007 TU_{74} 10 30.8 2°.07 3°.0/31.9 18

9 28	2 42.13	+18 3.5	0.806	1.707	21.5	20.1
10 8	2 39.28	+18 46.5	0.757	1.703	16.3	19.8
10 18	2 32.60	+19 12.2	0.724	1.701	10.2	19.5
10 28	2 23.37	+19 20.4	0.711	1.701	4.1	19.2
11 7	2 13.62	+19 14.6	0.718	1.704	5.2	19.3
11 17	2 5.48	+19 1.9	0.746	1.709	11.4	19.6
11 27	2 0.67	+18 51.8	0.793	1.716	17.1	20.0
12 7	2 0.00	+18 51.4	0.856	1.725	22.0	20.3

457822 2009 SB_{48} 10 30.8 28°.30 1°.5/31.9 16

9 28	2 43.03	+19 28.9	1.485	2.347	15.7	20.2
10 8	2 38.25	+19 15.4	1.441	2.367	11.6	20.0
10 18	2 31.23	+18 47.3	1.418	2.389	7.0	19.8
10 28	2 22.97	+18 7.7	1.420	2.411	2.4	19.5
11 7	2 14.71	+17 22.0	1.449	2.434	3.4	19.7
11 17	2 7.60	+16 36.6	1.504	2.458	7.8	20.0
11 27	2 2.57	+15 58.0	1.584	2.482	11.8	20.3
12 7	2 0.11	+15 30.9	1.686	2.508	15.2	20.6

446428 2014 JH_{32} 10 30.8 162°.02 1°.1/29.8 18

9 28	2 44.06	+13 20.1	2.078	2.935	12.1	22.0
10 8	2 38.55	+12 35.1	2.010	2.939	8.7	21.8
10 18	2 31.29	+11 42.3	1.967	2.942	4.9	21.5
10 28	2 23.00	+10 45.6	1.953	2.945	1.3	21.3
11 7	2 14.59	+ 9 50.2	1.967	2.947	3.5	21.5
11 17	2 6.93	+ 9 1.3	2.011	2.949	7.3	21.7
11 27	2 0.81	+ 8 23.3	2.081	2.951	10.8	21.9
12 7	1 56.73	+ 7 59.2	2.174	2.952	13.7	22.1

483218 2015 RH_{25} 10 30.8 74°.05 0°.7/31.3 18

9 28	2 44.94	+17 53.2	1.797	2.650	13.8	21.2
10 8	2 39.42	+17 29.8	1.736	2.659	10.2	21.0
10 18	2 31.87	+16 54.5	1.698	2.669	6.0	20.8
10 28	2 23.14	+16 10.1	1.686	2.678	1.6	20.5
11 7	2 14.29	+15 21.6	1.703	2.688	3.1	20.6
11 17	2 6.36	+14 34.6	1.748	2.697	7.4	20.9
11 27	2 0.26	+13 54.9	1.820	2.707	11.2	21.2
12 7	1 56.51	+13 26.6	1.913	2.716	14.4	21.4

514390 2016 SW_{14} 10 30.8 335°.18 4°.5/27.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 43.43	+ 6 38.3	1.411	2.296	15.0	20.9
10 8	2 38.77	+ 5 30.3	1.350	2.291	11.0	20.6
10 18	2 31.70	+ 4 18.0	1.311	2.286	6.8	20.4
10 28	2 23.13	+ 3 9.3	1.298	2.282	4.5	20.3
11 7	2 14.31	+ 2 12.8	1.310	2.278	7.1	20.4
11 17	2 6.50	+ 1 35.2	1.347	2.274	11.3	20.6
11 27	2 0.76	+ 1 20.5	1.408	2.271	15.4	20.9
12 7	1 57.73	+ 1 29.2	1.487	2.268	18.8	21.1

422059 2014 QN_{373} 10 30.8 143°.73 0°.3/30.5 18

9 28	2 44.52	+13 34.8	2.452	3.300	10.7	21.1
10 8	2 38.70	+13 28.5	2.381	3.304	7.8	20.9
10 18	2 31.33	+13 16.5	2.336	3.308	4.5	20.7
10 28	2 23.03	+13 0.9	2.319	3.312	1.0	20.5
11 7	2 14.59	+12 44.4	2.333	3.315	2.7	20.6
11 17	2 6.78	+12 30.1	2.377	3.319	6.1	20.9
11 27	2 0.29	+12 20.9	2.448	3.322	9.2	21.1
12 7	1 55.62	+12 19.3	2.544	3.325	11.8	21.3

321091 2008 SX_{224} 10 30.8 41°.50 0°.5/31.5 18

9 28	2 36.29	+17 33.8	4.196	5.031	6.9	21.0
10 8	2 32.30	+17 21.2	4.119	5.033	5.1	20.9
10 18	2 27.48	+17 3.6	4.068	5.035	3.0	20.8
10 28	2 22.18	+16 42.2	4.046	5.037	0.9	20.6
11 7	2 16.80	+16 18.6	4.056	5.039	1.5	20.7
11 17	2 11.73	+15 54.8	4.096	5.042	3.6	20.8
11 27	2 7.36	+15 33.0	4.165	5.044	5.6	21.0
12 7	2 3.98	+15 15.0	4.261	5.046	7.4	21.1

441783 2009 DT_{64} 10 30.8 166°.50 4°.2/ 3.6 18

9 28	2 47.08	+28 47.4	2.295	3.092	13.1	21.4
10 8	2 40.84	+28 52.6	2.217	3.096	10.4	21.2
10 18	2 32.68	+28 41.2	2.162	3.099	7.5	21.1
10 28	2 23.35	+28 12.8	2.133	3.102	4.9	20.9
11 7	2 13.81	+27 29.5	2.134	3.105	4.4	20.9
11 17	2 5.04	+26 35.8	2.163	3.107	6.5	21.0
11 27	1 57.90	+25 37.8	2.221	3.109	9.4	21.2
12 7	1 52.95	+24 42.0	2.303	3.110	12.1	21.4

282383 2003 RU_{25} 10 30.8 68°.35 3°.0/ 2.4 18

9 28	2 45.59	+26 19.3	1.609	2.441	16.2	19.7
10 8	2 40.03	+25 30.1	1.556	2.461	12.4	19.6
10 18	2 32.22	+24 18.8	1.524	2.481	8.1	19.4
10 28	2 23.22	+22 48.7	1.517	2.501	4.0	19.2
11 7	2 14.28	+21 7.2	1.539	2.522	3.7	19.2
11 17	2 6.54	+19 23.8	1.589	2.542	7.5	19.5
11 27	2 0.93	+17 48.1	1.665	2.562	11.4	19.8
12 7	1 57.91	+16 27.4	1.764	2.582	14.8	20.0

195900 Rogersudbury 10 30.8 29°.91 3°.4/27.9 18

9 28	2 41.77	+ 5 34.8	2.034	2.906	11.7	19.6
10 8	2 36.87	+ 4 53.0	1.978	2.912	8.5	19.4
10 18	2 30.32	+ 4 10.3	1.946	2.918	5.2	19.2
10 28	2 22.82	+ 3 31.5	1.941	2.925	3.4	19.1
11 7	2 15.23	+ 3 1.2	1.965	2.932	5.2	19.2
11 17	2 8.38	+ 2 43.2	2.017	2.939	8.4	19.4
11 27	2 3.00	+ 2 39.6	2.093	2.946	11.5	19.7
12 7	1 59.58	+ 2 51.1	2.192	2.954	14.1	19.9

441925 2010 JK_3 10 30.8 150°.38 4°.2/ 4.1 18

9 28	2 46.55	+30 44.0	2.272	3.061	13.4	21.6
10 8	2 40.39	+30 20.3	2.196	3.070	10.7	21.4
10 18	2 32.37	+29 37.0	2.143	3.078	7.7	21.2
10 28	2 23.28	+28 34.9	2.117	3.085	5.0	21.1
11 7	2 14.10	+27 17.3	2.120	3.092	4.4	21.1
11 17	2 5.79	+25 50.4	2.153	3.099	6.4	21.2
11 27	1 59.16	+24 21.6	2.215	3.104	9.3	21.4
12 7	1 54.72	+22 58.0	2.302	3.110	12.1	21.6

91793 1999 TR_{227} 10 30.8 82°.18 0°.5/31.3 18

9 28	2 42.39	+18 40.0	2.117	2.964	12.3	19.6
10 8	2 37.34	+17 58.9	2.051	2.972	9.0	19.4
10 18	2 30.60	+17 6.1	2.010	2.980	5.3	19.2
10 28	2 22.89	+16 5.0	1.996	2.988	1.4	19.0
11 7	2 15.09	+15 0.3	2.011	2.995	2.7	19.1
11 17	2 8.05	+13 57.8	2.056	3.003	6.5	19.3
11 27	2 2.53	+13 2.9	2.128	3.011	10.0	19.6
12 7	1 58.99	+12 19.7	2.223	3.019	12.9	19.8

166142 2002 EZ 10 30.8 101°.06 9°.9/23.5 16

9 28	2 49.18	−14 57.5	2.011	2.845	13.3	20.3
10 8	2 41.97	−16 8.2	1.992	2.872	11.3	20.2
10 18	2 33.08	−17 1.6	1.996	2.898	10.1	20.2
10 28	2 23.40	−17 31.3	2.026	2.924	10.0	20.2
11 7	2 13.91	−17 33.9	2.081	2.948	11.1	20.3
11 17	2 5.49	−17 9.5	2.160	2.972	12.8	20.5
11 27	1 58.84	−16 20.7	2.261	2.996	14.5	20.7
12 7	1 54.36	−15 12.1	2.381	3.019	16.1	20.9

207427 2006 DA_{104} 10 30.8 140°.78 2°.0/29.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 48.85	+12 9.7	1.447	2.316	15.7	20.7
10 8	2 42.62	+11 21.8	1.389	2.323	11.3	20.4
10 18	2 33.87	+10 24.7	1.354	2.330	6.5	20.2
10 28	2 23.64	+ 9 24.1	1.345	2.336	2.1	19.9
11 7	2 13.28	+ 8 27.4	1.363	2.342	4.9	20.1
11 17	2 4.09	+ 7 41.5	1.408	2.347	9.7	20.4
11 27	1 57.16	+ 7 12.1	1.477	2.352	14.1	20.7
12 7	1 53.09	+ 7 1.4	1.567	2.357	17.6	21.0

81178 2000 EB_{175} 10 30.8 137°.18 4°.3/27.9 18

9 28	2 47.72	+ 4 50.8	1.683	2.554	13.8	19.7
10 8	2 41.45	+ 4 2.8	1.628	2.561	10.1	19.5
10 18	2 33.06	+ 3 14.3	1.597	2.568	6.3	19.3
10 28	2 23.45	+ 2 31.2	1.593	2.575	4.3	19.1
11 7	2 13.75	+ 1 59.4	1.616	2.581	6.3	19.3
11 17	2 5.04	+ 1 43.2	1.667	2.587	10.0	19.5
11 27	1 58.26	+ 1 44.9	1.742	2.593	13.5	19.8
12 7	1 53.95	+ 2 4.4	1.838	2.598	16.5	20.0

155103 2005 SC_{225} 10 30.8 17°.87 6°.0/26.7 18

9 28	2 43.05	+ 4 29.2	1.271	2.163	15.9	19.9
10 8	2 38.57	+ 3 2.5	1.223	2.165	11.7	19.6
10 18	2 31.59	+ 1 34.2	1.196	2.169	7.7	19.4
10 28	2 23.14	+ 0 14.7	1.194	2.173	6.0	19.3
11 7	2 14.57	− 0 46.5	1.217	2.177	8.5	19.5
11 17	2 7.15	− 1 22.7	1.263	2.183	12.6	19.7
11 27	2 1.97	− 1 31.1	1.332	2.188	16.5	20.0
12 7	1 59.58	− 1 13.1	1.418	2.195	19.8	20.3

160516 1994 PC_{32} 10 30.8 13°.41 0°.2/30.9 18

9 28	2 37.90	+17 32.6	0.973	1.870	19.1	18.4
10 8	2 35.40	+16 54.9	0.933	1.879	14.0	18.1
10 18	2 29.95	+15 58.7	0.910	1.889	8.1	17.8
10 28	2 22.78	+14 50.5	0.910	1.902	1.9	17.5
11 7	2 15.52	+13 40.3	0.932	1.918	4.4	17.7
11 17	2 9.68	+12 38.6	0.977	1.935	10.2	18.1
11 27	2 6.41	+11 53.8	1.043	1.954	15.2	18.5
12 7	2 6.26	+11 30.1	1.128	1.975	19.4	18.8

293309 2007 DF_{39} 10 30.8 188°.85 0°.1/30.7 18

9 28	2 43.55	+15 2.7	2.437	3.285	10.8	21.4
10 8	2 38.06	+14 43.9	2.362	3.284	7.9	21.2
10 18	2 31.01	+14 17.7	2.311	3.283	4.6	21.0
10 28	2 23.02	+13 46.7	2.290	3.282	1.0	20.7
11 7	2 14.86	+13 14.1	2.298	3.281	2.7	20.9
11 17	2 7.31	+12 43.5	2.336	3.280	6.1	21.1
11 27	2 1.07	+12 18.8	2.402	3.278	9.3	21.3
12 7	1 56.64	+12 2.7	2.492	3.276	12.0	21.5

446774 2015 PP_{54} 10 30.8 59°.81 6°.2/26.3 18

9 28	2 44.58	− 0 7.4	1.681	2.556	13.5	21.0
10 8	2 39.00	− 1 14.5	1.646	2.577	10.1	20.9
10 18	2 31.54	− 2 16.3	1.635	2.597	7.2	20.8
10 28	2 23.11	− 3 5.9	1.650	2.618	6.2	20.8
11 7	2 14.74	− 3 37.5	1.692	2.638	8.0	20.9
11 17	2 7.41	− 3 48.1	1.759	2.659	10.9	21.1
11 27	2 1.90	− 3 37.1	1.851	2.680	13.8	21.4
12 7	1 58.65	− 3 6.6	1.961	2.701	16.3	21.6

523061 2016 QG_{91} 10 30.8 344°.92 10°.7/23.2 18

9 28	2 42.93	− 7 54.2	1.372	2.252	15.7	19.7
10 8	2 38.42	− 9 31.6	1.325	2.246	12.9	19.5
10 18	2 31.50	−10 56.5	1.300	2.241	11.0	19.4
10 28	2 23.14	−11 57.5	1.297	2.236	10.9	19.4
11 7	2 14.59	−12 26.7	1.318	2.232	12.8	19.5
11 17	2 7.09	−12 20.6	1.361	2.229	15.6	19.7
11 27	2 1.70	−11 40.6	1.423	2.227	18.5	19.9
12 7	1 58.99	−10 31.7	1.502	2.225	21.1	20.1

274562 2008 SO_{278} 10 30.8 321°.55 0°.2/31.1 18

9 28	2 36.15	+16 14.8	4.156	4.995	6.9	21.3
10 8	2 32.23	+16 0.4	4.074	4.991	5.0	21.2
10 18	2 27.48	+15 41.3	4.018	4.988	2.9	21.0
10 28	2 22.23	+15 19.0	3.993	4.985	0.7	20.8
11 7	2 16.88	+14 55.1	3.998	4.981	1.6	20.9
11 17	2 11.84	+14 31.7	4.034	4.978	3.7	21.1
11 27	2 7.49	+14 10.8	4.099	4.975	5.8	21.2
12 7	2 4.12	+13 54.2	4.190	4.972	7.5	21.3

273958 2007 KK_{1} 10 30.8 221°.52 3°.6/27.8 18

9 28	2 43.66	+ 3 11.5	2.365	3.228	10.6	20.4
10 8	2 38.11	+ 2 42.5	2.297	3.225	7.8	20.2
10 18	2 31.03	+ 2 14.5	2.255	3.223	5.0	20.0
10 28	2 23.03	+ 1 51.3	2.241	3.220	3.6	19.9
11 7	2 14.88	+ 1 36.7	2.256	3.217	5.1	20.0
11 17	2 7.34	+ 1 33.4	2.300	3.214	7.9	20.2
11 27	2 1.12	+ 1 43.0	2.370	3.211	10.7	20.4
12 7	1 56.70	+ 2 5.7	2.463	3.208	13.2	20.6

156206 2001 UH_{49} 10 30.8 325°.33 4°.8/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.30	+ 4 22.5	1.430	2.310	15.1	19.4
10 8	2 40.91	+ 3 45.0	1.366	2.304	11.2	19.2
10 18	2 32.99	+ 3 7.2	1.325	2.298	7.1	18.9
10 28	2 23.50	+ 2 35.8	1.309	2.292	4.8	18.8
11 7	2 13.70	+ 2 17.1	1.319	2.287	7.1	18.9
11 17	2 4.91	+ 2 15.7	1.354	2.282	11.2	19.1
11 27	1 58.26	+ 2 33.8	1.413	2.277	15.3	19.4
12 7	1 54.42	+ 3 11.1	1.491	2.273	18.7	19.6

518844 2010 CH_{243} 10 30.8 246°.40 5°.3/ 6.4 18

9 28	2 44.44	+37 5.2	2.917	3.659	11.8	21.6
10 8	2 38.79	+36 52.3	2.812	3.642	10.0	21.4
10 18	2 31.49	+36 20.6	2.728	3.626	7.9	21.2
10 28	2 23.17	+35 29.0	2.671	3.609	6.1	21.1
11 7	2 14.62	+34 19.1	2.643	3.591	5.3	21.0
11 17	2 6.66	+32 54.8	2.644	3.574	6.3	21.1
11 27	2 0.07	+31 22.0	2.674	3.555	8.3	21.2
12 7	1 55.35	+29 47.5	2.731	3.537	10.5	21.3

372688 2009 WU_{176} 10 30.8 172°.24 1°.4/ 1.3 17

9 28	2 42.94	+20 47.3	2.828	3.654	10.1	22.1
10 8	2 37.48	+20 36.8	2.750	3.656	7.6	22.0
10 18	2 30.64	+20 16.8	2.697	3.658	4.8	21.8
10 28	2 22.97	+19 48.6	2.672	3.660	2.0	21.6
11 7	2 15.15	+19 14.5	2.678	3.661	2.3	21.6
11 17	2 7.88	+18 38.0	2.715	3.662	5.1	21.8
11 27	2 1.78	+18 2.9	2.780	3.663	7.9	22.0
12 7	1 57.29	+17 32.8	2.870	3.663	10.3	22.2

186815 2004 FJ_{12} 10 30.8 142°.82 1°.2/31.8 17

9 28	2 46.77	+20 25.0	1.650	2.498	15.1	20.1
10 8	2 41.00	+19 45.6	1.584	2.503	11.3	19.9
10 18	2 32.92	+18 49.6	1.540	2.509	6.8	19.6
10 28	2 23.49	+17 40.4	1.523	2.514	2.2	19.4
11 7	2 13.90	+16 24.3	1.534	2.518	3.3	19.5
11 17	2 5.34	+15 9.2	1.573	2.522	7.9	19.8
11 27	1 58.83	+14 2.8	1.637	2.526	12.1	20.0
12 7	1 54.93	+13 11.1	1.725	2.530	15.6	20.3

263704 2008 HZ_{25} 10 30.8 9°.18 3°.5/27.7 18

9 28	2 40.75	+ 7 48.5	1.793	2.670	12.7	20.2
10 8	2 36.38	+ 6 36.0	1.733	2.671	9.2	19.9
10 18	2 30.17	+ 5 19.0	1.698	2.673	5.6	19.7
10 28	2 22.88	+ 4 4.3	1.690	2.674	3.5	19.6
11 7	2 15.45	+ 2 58.8	1.709	2.677	5.7	19.8
11 17	2 8.82	+ 2 8.4	1.755	2.679	9.3	20.0
11 27	2 3.82	+ 1 36.9	1.826	2.682	12.7	20.2
12 7	2 0.94	+ 1 25.6	1.918	2.686	15.6	20.4

229654 2006 HE_{18} 10 30.8 276°.85 1°.1/29.7 18

9 28	2 40.62	+13 35.2	2.331	3.189	10.9	20.5
10 8	2 36.01	+12 40.8	2.254	3.183	7.9	20.3
10 18	2 29.87	+11 38.4	2.202	3.177	4.5	20.1
10 28	2 22.81	+10 32.0	2.179	3.171	1.3	19.9
11 7	2 15.59	+ 9 26.5	2.186	3.165	3.3	20.0
11 17	2 8.96	+ 8 27.2	2.222	3.159	6.8	20.2
11 27	2 3.62	+ 7 38.6	2.285	3.153	10.0	20.4
12 7	2 0.06	+ 7 3.6	2.371	3.147	12.8	20.6

177203 2003 UF_{92} 10 30.8 20°.13 2°.4/ 1.3 18

9 28	2 42.15	+22 1.6	0.961	1.843	20.6	18.7
10 8	2 38.70	+21 33.5	0.915	1.850	15.5	18.4
10 18	2 31.97	+20 39.8	0.887	1.859	9.6	18.1
10 28	2 23.30	+19 24.9	0.880	1.869	3.8	17.8
11 7	2 14.48	+17 58.6	0.895	1.881	4.4	17.9
11 17	2 7.23	+16 33.5	0.934	1.894	10.2	18.3
11 27	2 2.88	+15 21.7	0.994	1.908	15.5	18.6
12 7	2 2.00	+14 30.6	1.073	1.924	19.9	19.0

276281 2002 TN_{3} 10 30.8 36°.99 0°.6/31.1 18

9 28	2 48.03	+16 1.7	1.046	1.928	19.3	19.9
10 8	2 42.57	+16 1.1	1.008	1.947	14.1	19.7
10 18	2 34.01	+15 46.5	0.990	1.966	8.2	19.4
10 28	2 23.72	+15 21.3	0.994	1.986	2.0	19.1
11 7	2 13.47	+14 52.0	1.022	2.008	4.3	19.3
11 17	2 4.88	+14 25.7	1.075	2.030	10.0	19.7
11 27	1 59.17	+14 9.1	1.150	2.053	14.9	20.1
12 7	1 56.84	+14 6.4	1.244	2.076	18.9	20.4

300445 2007 TP_{53} 10 30.8 34°.91 0°.0/30.7 18

9 28	2 45.49	+15 14.5	1.532	2.398	15.1	20.6
10 8	2 40.15	+14 59.1	1.474	2.406	11.0	20.3
10 18	2 32.47	+14 33.3	1.439	2.413	6.4	20.1
10 28	2 23.41	+14 0.3	1.429	2.421	1.4	19.8
11 7	2 14.19	+13 25.3	1.446	2.430	3.6	20.0
11 17	2 6.02	+12 53.9	1.490	2.439	8.4	20.3
11 27	1 59.91	+12 31.5	1.558	2.448	12.6	20.6
12 7	1 56.45	+12 21.8	1.648	2.457	16.1	20.8

22912 Noraxu 10 30.8 286°.91 0°.8/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 43.36	+15 26.6	1.717	2.581	13.9	19.0
10 8	2 38.62	+14 34.1	1.633	2.564	10.2	18.8
10 18	2 31.66	+13 28.5	1.572	2.547	5.9	18.5
10 28	2 23.26	+12 14.2	1.538	2.530	1.3	18.1
11 7	2 14.48	+10 57.9	1.531	2.513	3.9	18.3
11 17	2 6.46	+ 9 47.4	1.553	2.497	8.6	18.5
11 27	2 0.23	+ 8 49.7	1.599	2.480	12.9	18.7
12 7	1 56.45	+ 8 9.5	1.668	2.463	16.5	19.0

334334 2001 XH_{137} 10 30.8 12°.44 5°.2/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.53	+ 4 54.5	1.022	1.923	18.0	19.6
10 8	2 39.39	+ 4 22.4	0.979	1.927	13.2	19.3
10 18	2 32.26	+ 3 50.9	0.956	1.933	8.2	19.1
10 28	2 23.38	+ 3 27.9	0.955	1.941	5.2	19.0
11 7	2 14.36	+ 3 20.3	0.977	1.950	7.8	19.2
11 17	2 6.75	+ 3 32.5	1.021	1.960	12.5	19.5
11 27	2 1.79	+ 4 6.0	1.086	1.972	17.0	19.8
12 7	2 0.07	+ 4 58.8	1.169	1.986	20.8	20.1

127432 2002 PE_{15} 10 30.8 97°.35 0°.4/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.83	+17 25.5	2.424	3.267	11.0	20.3
10 8	2 37.48	+16 57.9	2.362	3.281	8.1	20.1
10 18	2 30.65	+16 21.6	2.326	3.295	4.7	19.9
10 28	2 22.99	+15 38.9	2.317	3.309	1.2	19.7
11 7	2 15.28	+14 53.6	2.339	3.323	2.5	19.8
11 17	2 8.25	+14 9.9	2.391	3.336	5.8	20.1
11 27	2 2.57	+13 32.0	2.470	3.350	8.9	20.3
12 7	1 58.66	+13 3.0	2.574	3.363	11.5	20.5

204022 2003 UE_{65} 10 30.8 337°.90 7°.5/25.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 41.53	− 0 4.8	1.349	2.239	15.2	19.4
10 8	2 37.56	− 1 24.2	1.289	2.227	11.6	19.2
10 18	2 31.13	− 2 40.6	1.251	2.216	8.5	19.0
10 28	2 23.15	− 3 44.2	1.237	2.206	7.6	18.9
11 7	2 14.86	− 4 25.9	1.247	2.196	9.9	19.0
11 17	2 7.53	− 4 40.2	1.281	2.187	13.5	19.2
11 27	2 2.27	− 4 25.3	1.335	2.180	17.2	19.4
12 7	1 59.73	− 3 43.5	1.407	2.173	20.4	19.6

511825 2015 FJ_{183} 10 30.8 237°.74 0°.1/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.09	+14 56.7	1.575	2.435	15.1	21.8
10 8	2 42.95	+14 45.2	1.499	2.427	11.1	21.5
10 18	2 34.24	+14 23.4	1.446	2.420	6.5	21.2
10 28	2 23.85	+13 53.9	1.419	2.412	1.4	20.9
11 7	2 13.05	+13 21.3	1.420	2.403	3.8	21.0
11 17	2 3.18	+12 51.3	1.448	2.395	8.8	21.3
11 27	1 55.42	+12 29.6	1.501	2.386	13.3	21.5
12 7	1 50.50	+12 20.5	1.575	2.376	17.0	21.8

23578 Baedeker 10 30.8 218°.77 0°.7/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.32	+13 18.1	2.672	3.521	9.9	19.2
10 8	2 37.10	+12 49.2	2.590	3.515	7.2	19.0
10 18	2 30.47	+12 14.2	2.535	3.508	4.1	18.8
10 28	2 22.98	+11 35.9	2.509	3.501	1.0	18.6
11 7	2 15.31	+10 57.6	2.513	3.493	2.8	18.7
11 17	2 8.16	+10 22.9	2.547	3.486	6.0	18.9
11 27	2 2.17	+ 9 55.2	2.609	3.477	8.9	19.1
12 7	1 57.81	+ 9 37.1	2.695	3.469	11.4	19.3

470573 2008 GU_{130} 10 30.8 52°.00 4°.9/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.13	+ 4 23.7	1.298	2.180	16.2	20.3
10 8	2 42.16	+ 3 45.6	1.254	2.193	11.9	20.1
10 18	2 33.64	+ 3 8.3	1.233	2.206	7.4	19.9
10 28	2 23.68	+ 2 38.8	1.235	2.219	4.9	19.8
11 7	2 13.70	+ 2 23.2	1.264	2.232	7.2	20.0
11 17	2 5.03	+ 2 25.4	1.318	2.246	11.3	20.3
11 27	1 58.74	+ 2 47.0	1.394	2.260	15.3	20.5
12 7	1 55.37	+ 3 26.6	1.490	2.275	18.6	20.8

515451 2013 WU_{50} 10 30.8 7°.87 6°.0/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.48	+20 15.5	0.783	1.679	22.6	19.1
10 8	2 41.20	+21 56.5	0.740	1.680	17.5	18.8
10 18	2 33.87	+23 19.9	0.713	1.684	11.8	18.5
10 28	2 23.82	+24 19.8	0.706	1.691	6.8	18.3
11 7	2 13.25	+24 54.8	0.718	1.700	7.0	18.4
11 17	2 4.44	+25 9.2	0.751	1.712	11.8	18.7
11 27	1 59.21	+25 12.5	0.803	1.727	17.0	19.0
12 7	1 58.36	+25 14.5	0.872	1.744	21.4	19.4

392058 2009 BS_{178} 10 30.8 83°.44 3°.9/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.99	+26 56.3	2.011	2.820	14.2	21.2
10 8	2 42.23	+27 2.5	1.958	2.847	11.1	21.0
10 18	2 33.47	+26 51.5	1.928	2.874	7.6	20.9
10 28	2 23.63	+26 23.7	1.925	2.900	4.6	20.7
11 7	2 13.79	+25 42.2	1.950	2.926	4.2	20.8
11 17	2 4.98	+24 52.2	2.005	2.951	6.7	21.0
11 27	1 58.07	+24 0.4	2.086	2.976	9.8	21.2
12 7	1 53.54	+23 12.8	2.192	3.001	12.6	21.4

218411 2004 RZ_{72} 10 30.8 88°.64 3°.2/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.52	+24 16.1	2.170	2.990	13.0	19.9
10 8	2 40.49	+24 31.9	2.101	2.999	10.0	19.7
10 18	2 32.55	+24 34.1	2.055	3.007	6.8	19.6
10 28	2 23.45	+24 22.7	2.036	3.016	3.8	19.4
11 7	2 14.17	+23 59.8	2.046	3.024	3.7	19.4
11 17	2 5.66	+23 29.3	2.085	3.033	6.4	19.6
11 27	1 58.78	+22 56.4	2.152	3.041	9.6	19.8
12 7	1 54.10	+22 26.3	2.242	3.050	12.4	20.0

85279 1994 PM_{10} 10 30.8 45°.14 2°.4/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.03	+11 5.0	1.298	2.178	16.3	19.4
10 8	2 40.75	+10 21.0	1.248	2.188	11.8	19.2
10 18	2 32.89	+ 9 29.0	1.220	2.197	6.8	18.9
10 28	2 23.53	+ 8 35.6	1.216	2.207	2.5	18.7
11 7	2 14.07	+ 7 48.1	1.239	2.218	5.3	18.9
11 17	2 5.87	+ 7 13.3	1.287	2.228	10.2	19.2
11 27	2 0.00	+ 6 56.0	1.358	2.240	14.6	19.5
12 7	1 57.03	+ 6 57.8	1.449	2.251	18.2	19.8

288692 2004 QJ_{1} 10 30.8 37°.41 5°.2/26.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.36	+13 53.1	0.904	1.804	19.9	19.6
10 8	2 39.52	+10 51.0	0.857	1.808	14.2	19.3
10 18	2 32.42	+ 7 25.6	0.831	1.812	8.3	19.0
10 28	2 23.44	+ 3 57.3	0.830	1.817	5.3	18.8
11 7	2 14.38	+ 0 49.8	0.852	1.822	9.5	19.1
11 17	2 6.94	− 1 37.8	0.898	1.827	15.2	19.4
11 27	2 2.40	− 3 16.3	0.964	1.833	20.2	19.7
12 7	2 1.29	− 4 7.1	1.045	1.839	24.3	20.1

167535 2003 YO_{161} 10 30.8 164°.53 4°.1/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.16	+ 1 59.0	2.164	3.022	11.6	19.8
10 8	2 41.46	+ 1 37.4	2.101	3.026	8.6	19.6
10 18	2 33.02	+ 1 18.3	2.064	3.029	5.6	19.4
10 28	2 23.56	+ 1 5.5	2.055	3.032	4.1	19.3
11 7	2 13.97	+ 1 2.8	2.075	3.035	5.6	19.4
11 17	2 5.15	+ 1 12.2	2.125	3.037	8.6	19.6
11 27	1 57.88	+ 1 35.1	2.201	3.039	11.5	19.8
12 7	1 52.66	+ 2 10.9	2.299	3.041	14.1	20.0

396523 2014 GB_{28} 10 30.8 325°.30 0°.4/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.03	+16 55.2	1.538	2.406	15.0	20.5
10 8	2 37.79	+15 56.8	1.464	2.397	11.0	20.2
10 18	2 31.22	+14 42.8	1.413	2.388	6.4	19.9
10 28	2 23.19	+13 18.2	1.387	2.380	1.4	19.6
11 7	2 14.87	+11 51.1	1.389	2.372	3.9	19.7
11 17	2 7.44	+10 30.2	1.417	2.364	8.9	20.0
11 27	2 1.96	+ 9 23.7	1.470	2.357	13.3	20.3
12 7	1 59.07	+ 8 36.8	1.544	2.351	17.1	20.5

1571 Cesco 10 30.8 334°.25 7°.2/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.16	+36 35.1	2.078	2.846	15.2	16.2
10 8	2 39.21	+36 55.1	1.993	2.839	12.8	16.0
10 18	2 32.02	+36 52.5	1.929	2.833	10.3	15.8
10 28	2 23.37	+36 24.9	1.888	2.827	8.1	15.7
11 7	2 14.38	+35 33.4	1.872	2.821	7.2	15.6
11 17	2 6.19	+34 22.5	1.884	2.816	8.3	15.7
11 27	1 59.85	+32 59.8	1.922	2.811	10.6	15.8
12 7	1 56.02	+31 34.4	1.983	2.806	13.2	16.0

351882 2006 SQ_{139} 10 30.8 71°.65 0°.9/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.75	+12 12.2	1.780	2.636	13.8	20.5
10 8	2 42.72	+12 6.1	1.737	2.665	9.9	20.4
10 18	2 33.72	+11 54.0	1.719	2.693	5.6	20.2
10 28	2 23.69	+11 38.8	1.729	2.721	1.3	19.9
11 7	2 13.74	+11 24.3	1.768	2.749	3.5	20.2
11 17	2 4.90	+11 14.1	1.835	2.777	7.6	20.5
11 27	1 58.02	+11 11.7	1.928	2.804	11.2	20.8
12 7	1 53.54	+11 18.9	2.045	2.831	14.2	21.0

193370 2000 UH_{83} 10 30.8 124°.74 2°.1/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.59	+11 2.8	1.675	2.544	13.9	19.7
10 8	2 40.07	+10 20.7	1.612	2.546	10.1	19.5
10 18	2 32.40	+ 9 31.6	1.573	2.548	5.8	19.3
10 28	2 23.44	+ 8 40.6	1.560	2.551	2.2	19.0
11 7	2 14.30	+ 7 53.6	1.575	2.553	4.6	19.2
11 17	2 6.09	+ 7 16.4	1.617	2.555	8.9	19.5
11 27	1 59.75	+ 6 53.5	1.684	2.557	12.8	19.7
12 7	1 55.88	+ 6 47.0	1.773	2.558	16.1	20.0

122421 2000 QZ_{101} 10 30.8 109°.04 1°.5/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.30	+11 44.4	1.582	2.440	15.2	19.5
10 8	2 45.51	+11 21.5	1.536	2.464	10.9	19.3
10 18	2 35.41	+10 51.8	1.514	2.488	6.2	19.1
10 28	2 24.09	+10 19.4	1.519	2.511	1.8	18.8
11 7	2 12.84	+ 9 49.5	1.553	2.533	4.3	19.1
11 17	2 2.89	+ 9 26.9	1.615	2.554	8.7	19.4
11 27	1 55.20	+ 9 15.8	1.703	2.574	12.7	19.7
12 7	1 50.27	+ 9 18.0	1.812	2.594	15.9	19.9

246822 2009 ST_{53} 10 30.8 77°.01 0°.4/31.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.71	+18 45.4	1.416	2.277	16.4	20.5
10 8	2 41.10	+17 55.6	1.364	2.291	12.1	20.3
10 18	2 33.03	+16 49.4	1.333	2.306	7.1	20.1
10 28	2 23.58	+15 31.8	1.329	2.321	1.8	19.8
11 7	2 14.10	+14 10.9	1.351	2.335	3.7	19.9
11 17	2 5.88	+12 55.5	1.400	2.350	8.7	20.3
11 27	1 59.93	+11 53.6	1.474	2.365	13.1	20.6
12 7	1 56.78	+11 9.8	1.570	2.379	16.7	20.9

216464 1974 PB 10 30.8 28°.65 8°.2/27.1 18

9 28	2 43.05	+ 3 4.9	0.709	1.630	21.2	18.7
10 8	2 39.10	+ 1 32.8	0.703	1.659	15.5	18.5
10 18	2 31.92	+ 0 9.7	0.714	1.690	10.3	18.4
10 28	2 23.28	− 0 50.9	0.744	1.724	8.2	18.4
11 7	2 15.14	− 1 19.9	0.794	1.760	10.8	18.7
11 17	2 9.03	− 1 15.3	0.864	1.797	15.1	19.1
11 27	2 5.94	− 0 40.0	0.952	1.835	19.2	19.5
12 7	2 6.12	+ 0 19.6	1.056	1.874	22.5	19.9

369458 2010 RK_{45} 10 30.8 127°.60 4°.6/ 2.8 15

9 28	2 52.29	+26 14.2	1.536	2.361	17.2	21.7
10 8	2 45.35	+26 29.4	1.473	2.372	13.4	21.5
10 18	2 35.63	+26 24.0	1.432	2.382	9.2	21.3
10 28	2 24.20	+25 57.1	1.415	2.393	5.5	21.1
11 7	2 12.55	+25 11.9	1.425	2.402	5.1	21.1
11 17	2 2.15	+24 15.2	1.462	2.411	8.5	21.3
11 27	1 54.21	+23 16.1	1.525	2.420	12.4	21.6
12 7	1 49.41	+22 23.3	1.610	2.428	16.0	21.8

424447 2008 CQ_{61} 10 30.8 103°.60 0°.3/30.6 16

9 28	2 50.49	+15 4.7	1.676	2.529	14.7	21.9
10 8	2 43.44	+14 37.7	1.627	2.553	10.6	21.7
10 18	2 34.22	+14 1.0	1.602	2.575	6.1	21.5
10 28	2 23.84	+13 18.2	1.605	2.597	1.3	21.2
11 7	2 13.51	+12 34.5	1.636	2.619	3.5	21.4
11 17	2 4.35	+11 55.7	1.695	2.639	8.0	21.7
11 27	1 57.27	+11 26.7	1.781	2.659	11.9	22.0
12 7	1 52.78	+11 10.8	1.889	2.679	15.0	22.3

60874 2000 HT_{86} 10 30.8 177°.54 1°.7/29.5 18

9 28	2 44.28	+11 12.2	1.912	2.776	12.6	19.6
10 8	2 38.94	+10 36.2	1.844	2.776	9.1	19.4
10 18	2 31.70	+ 9 54.0	1.801	2.776	5.2	19.1
10 28	2 23.31	+ 9 9.7	1.785	2.776	1.8	18.9
11 7	2 14.74	+ 8 28.5	1.798	2.776	4.1	19.1
11 17	2 6.96	+ 7 55.1	1.839	2.776	8.0	19.3
11 27	2 0.81	+ 7 33.6	1.906	2.776	11.6	19.5
12 7	1 56.84	+ 7 26.2	1.995	2.776	14.6	19.7

268305 2005 QV_{114} 10 30.8 52°.20 4°.1/ 2.2 18

9 28	2 49.54	+23 43.2	1.345	2.191	18.0	20.1
10 8	2 43.52	+24 5.1	1.291	2.204	13.8	19.9
10 18	2 34.62	+24 7.5	1.257	2.217	9.2	19.6
10 28	2 23.98	+23 49.9	1.247	2.230	5.0	19.4
11 7	2 13.14	+23 15.9	1.262	2.243	4.8	19.5
11 17	2 3.64	+22 32.5	1.304	2.257	8.8	19.7
11 27	1 56.73	+21 48.4	1.370	2.271	13.1	20.0
12 7	1 53.03	+21 11.4	1.457	2.285	16.8	20.3

230483 2002 TB_{65} 10 30.8 350°.19 2°.4/ 2.4 18

9 28	2 41.43	+25 7.0	2.269	3.092	12.4	19.6
10 8	2 36.74	+24 30.9	2.190	3.091	9.5	19.4
10 18	2 30.38	+23 38.8	2.134	3.090	6.3	19.2
10 28	2 23.01	+22 32.6	2.106	3.089	3.2	19.0
11 7	2 15.49	+21 16.7	2.107	3.088	3.0	19.0
11 17	2 8.67	+19 56.7	2.137	3.088	6.0	19.2
11 27	2 3.30	+18 39.4	2.195	3.087	9.3	19.4
12 7	1 59.87	+17 30.4	2.278	3.087	12.2	19.6

113892 2002 TL_{270} 10 30.8 14°.49 0°.4/30.5 18

9 28	2 40.36	+18 5.8	1.377	2.251	16.0	18.5
10 8	2 36.63	+16 51.6	1.319	2.255	11.7	18.3
10 18	2 30.53	+15 19.8	1.284	2.260	6.7	18.0
10 28	2 23.05	+13 37.1	1.273	2.266	1.4	17.7
11 7	2 15.45	+11 53.5	1.289	2.273	4.0	17.9
11 17	2 8.93	+10 19.2	1.331	2.281	9.1	18.2
11 27	2 4.48	+ 9 2.9	1.398	2.290	13.6	18.5
12 7	2 2.66	+ 8 9.4	1.485	2.299	17.3	18.8

356742 2011 UC_{207} 10 30.8 112°.73 2°.0/ 1.5 18

9 28	2 46.16	+21 57.7	2.003	2.836	13.4	21.2
10 8	2 40.26	+21 43.0	1.938	2.847	10.1	21.1
10 18	2 32.43	+21 14.3	1.896	2.858	6.4	20.9
10 28	2 23.47	+20 33.3	1.882	2.869	2.8	20.7
11 7	2 14.40	+19 44.0	1.896	2.879	3.1	20.7
11 17	2 6.20	+18 51.6	1.939	2.889	6.6	20.9
11 27	1 59.72	+18 2.2	2.010	2.899	10.2	21.2
12 7	1 55.50	+17 20.9	2.104	2.908	13.2	21.4

239036 2006 DS_{147} 10 30.8 120°.96 0°.6/30.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.24	+14 47.1	1.915	2.769	13.1	21.5
10 8	2 40.27	+14 9.6	1.855	2.782	9.5	21.3
10 18	2 32.40	+13 23.1	1.820	2.793	5.4	21.1
10 28	2 23.46	+12 31.3	1.812	2.805	1.2	20.8
11 7	2 14.44	+11 39.4	1.834	2.816	3.4	21.0
11 17	2 6.33	+10 52.8	1.884	2.827	7.4	21.3
11 27	1 59.94	+10 16.3	1.961	2.837	11.1	21.5
12 7	1 55.79	+ 9 53.1	2.061	2.847	14.1	21.7

30355 2000 JU_{39} 10 30.8 152°.13 1°.1/30.2 18

9 28	2 51.03	+12 51.3	1.466	2.330	15.8	18.5
10 8	2 44.32	+12 31.8	1.405	2.336	11.5	18.3
10 18	2 34.99	+12 3.4	1.366	2.341	6.6	18.0
10 28	2 24.07	+11 30.1	1.353	2.345	1.6	17.7
11 7	2 12.93	+10 57.4	1.368	2.349	4.3	17.9
11 17	2 2.95	+10 31.0	1.409	2.353	9.3	18.2
11 27	1 55.28	+10 16.0	1.476	2.356	13.7	18.5
12 7	1 50.57	+10 15.5	1.563	2.359	17.4	18.7

115195 2003 SJ_{108} 10 30.8 323°.63 0°.2/30.7 18

9 28	2 40.08	+16 59.4	1.897	2.758	12.9	18.9
10 8	2 36.08	+16 8.0	1.812	2.741	9.5	18.6
10 18	2 30.15	+15 3.4	1.751	2.725	5.5	18.3
10 28	2 23.00	+13 49.6	1.717	2.710	1.2	18.0
11 7	2 15.55	+12 32.7	1.712	2.695	3.3	18.1
11 17	2 8.77	+11 19.5	1.734	2.681	7.6	18.4
11 27	2 3.55	+10 16.8	1.782	2.667	11.5	18.6
12 7	2 0.49	+ 9 29.3	1.853	2.653	14.9	18.8

128190 2003 SW_{6} 10 30.8 42°.67 0°.1/30.9 18

9 28	2 43.32	+15 49.4	2.015	2.870	12.5	19.1
10 8	2 38.16	+15 32.0	1.953	2.878	9.1	18.9
10 18	2 31.20	+15 5.8	1.915	2.887	5.3	18.6
10 28	2 23.21	+14 33.5	1.904	2.896	1.2	18.4
11 7	2 15.10	+13 59.0	1.922	2.905	2.9	18.5
11 17	2 7.77	+13 26.9	1.968	2.915	6.8	18.8
11 27	2 2.01	+13 1.4	2.041	2.925	10.3	19.0
12 7	1 58.33	+12 45.8	2.137	2.935	13.3	19.3

2342 Lebedev 10 30.8 348°.26 0°.0/30.7 18

9 28	2 41.66	+15 33.7	1.944	2.804	12.6	16.3
10 8	2 37.11	+15 11.0	1.871	2.799	9.3	16.1
10 18	2 30.69	+14 39.0	1.821	2.795	5.4	15.9
10 28	2 23.11	+14 0.5	1.799	2.791	1.2	15.6
11 7	2 15.31	+13 20.0	1.804	2.788	3.1	15.7
11 17	2 8.23	+12 42.3	1.838	2.785	7.2	16.0
11 27	2 2.70	+12 12.3	1.897	2.783	10.9	16.2
12 7	1 59.29	+11 53.6	1.979	2.781	14.0	16.4

432801 2011 GM_{20} 10 30.8 178°.09 1°.6/ 1.1 18

9 28	2 47.52	+20 57.5	1.905	2.742	13.9	21.7
10 8	2 41.41	+20 34.2	1.831	2.744	10.4	21.5
10 18	2 33.19	+19 56.4	1.780	2.745	6.5	21.2
10 28	2 23.68	+19 5.9	1.756	2.745	2.5	21.0
11 7	2 13.95	+18 7.3	1.762	2.746	3.1	21.0
11 17	2 5.10	+17 6.7	1.796	2.745	7.1	21.3
11 27	1 58.06	+16 10.8	1.857	2.744	11.0	21.5
12 7	1 53.43	+15 25.2	1.942	2.743	14.3	21.7

332788 2009 VC_{81} 10 30.8 301°.37 1°.0/31.9 18

9 28	2 41.17	+20 51.7	2.216	3.056	12.0	20.6
10 8	2 36.58	+20 3.8	2.134	3.050	9.0	20.4
10 18	2 30.31	+19 2.1	2.077	3.044	5.5	20.2
10 28	2 23.03	+17 49.3	2.048	3.038	1.9	19.9
11 7	2 15.56	+16 30.6	2.048	3.032	2.6	19.9
11 17	2 8.75	+15 12.0	2.077	3.026	6.3	20.2
11 27	2 3.36	+13 59.8	2.134	3.020	9.8	20.4
12 7	1 59.90	+12 59.0	2.215	3.015	12.8	20.6

46254 2001 HB_{36} 10 30.8 239°.56 1°.7/ 1.8 18

9 28	2 42.14	+23 20.3	2.659	3.480	10.8	19.6
10 8	2 37.10	+22 43.1	2.567	3.469	8.2	19.4
10 18	2 30.55	+21 52.7	2.499	3.457	5.3	19.2
10 28	2 23.09	+20 50.8	2.459	3.445	2.4	19.0
11 7	2 15.43	+19 41.0	2.450	3.433	2.5	19.0
11 17	2 8.31	+18 28.1	2.472	3.420	5.5	19.2
11 27	2 2.43	+17 17.5	2.522	3.408	8.5	19.4
12 7	1 58.26	+16 14.2	2.598	3.394	11.2	19.5

174451 2002 XH_{77} 10 30.8 250°.27 1°.9/29.4 18

9 28	2 46.00	+ 9 19.0	2.112	2.971	11.8	20.0
10 8	2 40.15	+ 9 0.1	2.031	2.960	8.6	19.8
10 18	2 32.44	+ 8 37.4	1.975	2.949	5.0	19.5
10 28	2 23.53	+ 8 14.2	1.947	2.938	2.0	19.3
11 7	2 14.34	+ 7 54.3	1.949	2.926	4.0	19.4
11 17	2 5.78	+ 7 41.3	1.979	2.914	7.7	19.7
11 27	1 58.71	+ 7 38.4	2.036	2.901	11.2	19.9
12 7	1 53.74	+ 7 47.3	2.116	2.889	14.2	20.0

511195 2013 YL_{124} 10 30.8 85°.36 9°.3/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.13	− 8 58.2	1.669	2.531	14.3	20.8
10 8	2 40.96	−10 12.1	1.636	2.546	11.6	20.7
10 18	2 32.79	−11 12.2	1.626	2.560	9.7	20.6
10 28	2 23.57	−11 50.7	1.641	2.575	9.4	20.7
11 7	2 14.41	−12 2.6	1.681	2.589	10.9	20.8
11 17	2 6.33	−11 46.5	1.745	2.604	13.2	21.0
11 27	2 0.18	−11 4.3	1.831	2.618	15.6	21.2
12 7	1 56.42	−10 0.4	1.935	2.632	17.8	21.4

3075 Bornmann 10 30.8 43°.33 8°.2/ 4.5 18

9 28	2 51.49	+30 52.6	1.218	2.044	20.7	17.0
10 8	2 45.53	+31 52.1	1.165	2.055	16.9	16.8
10 18	2 36.07	+32 24.4	1.129	2.066	12.7	16.6
10 28	2 24.39	+32 24.7	1.115	2.078	9.2	16.4
11 7	2 12.34	+31 54.2	1.125	2.091	8.3	16.4
11 17	2 1.86	+31 0.0	1.159	2.104	10.7	16.6
11 27	1 54.46	+29 54.4	1.215	2.117	14.3	16.9
12 7	1 50.87	+28 49.7	1.292	2.131	17.9	17.1

22680 1998 QB_{44} 10 30.8 82°.29 3°.2/ 2.5 18

9 28	2 46.52	+24 30.2	2.198	3.017	12.9	17.8
10 8	2 40.48	+24 45.8	2.131	3.028	10.0	17.6
10 18	2 32.58	+24 47.9	2.088	3.039	6.7	17.4
10 28	2 23.56	+24 36.3	2.071	3.050	3.9	17.3
11 7	2 14.37	+24 13.3	2.084	3.061	3.7	17.3
11 17	2 5.96	+23 42.7	2.125	3.073	6.3	17.5
11 27	1 59.17	+23 9.6	2.194	3.084	9.4	17.7
12 7	1 54.53	+22 39.2	2.287	3.095	12.2	17.9

414948 2011 BM_{70} 10 30.8 244°.86 3°.0/27.6 17

9 28	2 40.97	+ 5 56.3	2.599	3.462	9.7	21.6
10 8	2 36.17	+ 5 0.0	2.521	3.452	7.1	21.4
10 18	2 30.00	+ 4 1.5	2.470	3.441	4.4	21.2
10 28	2 22.98	+ 3 5.1	2.448	3.430	3.0	21.1
11 7	2 15.79	+ 2 15.3	2.456	3.418	4.6	21.2
11 17	2 9.10	+ 1 36.0	2.492	3.407	7.4	21.4
11 27	2 3.55	+ 1 10.1	2.556	3.395	10.1	21.5
12 7	1 59.58	+ 0 58.9	2.642	3.383	12.5	21.7

513186 2005 GD_{14} 10 30.8 206°.17 2°.6/28.4 18

9 28	2 44.33	+ 8 12.8	2.355	3.214	10.8	22.9
10 8	2 38.71	+ 7 17.8	2.279	3.208	7.8	22.7
10 18	2 31.50	+ 6 18.7	2.230	3.202	4.7	22.5
10 28	2 23.33	+ 5 20.1	2.209	3.195	2.6	22.3
11 7	2 14.98	+ 4 26.8	2.219	3.188	4.5	22.4
11 17	2 7.23	+ 3 43.5	2.258	3.180	7.6	22.6
11 27	2 0.82	+ 3 13.5	2.323	3.171	10.7	22.8
12 7	1 56.24	+ 2 58.5	2.412	3.162	13.3	23.0

304237 2006 RL_{11} 10 30.8 11°.14 2°.6/ 1.6 18

9 28	2 44.19	+21 51.1	1.545	2.397	15.8	20.2
10 8	2 39.41	+21 47.9	1.480	2.399	12.0	20.0
10 18	2 32.21	+21 28.0	1.436	2.401	7.7	19.7
10 28	2 23.51	+20 52.7	1.417	2.404	3.5	19.5
11 7	2 14.55	+20 6.6	1.424	2.408	3.7	19.5
11 17	2 6.59	+19 15.9	1.458	2.412	7.9	19.8
11 27	2 0.71	+18 28.5	1.517	2.417	12.1	20.1
12 7	1 57.54	+17 50.4	1.598	2.423	15.7	20.3

186312 2002 CZ_{204} 10 30.9 93°.17 5°.7/25.8 18

9 28	2 42.81	− 1 18.1	2.126	2.993	11.4	20.1
10 8	2 37.60	− 2 23.7	2.077	3.002	8.7	20.0
10 18	2 30.82	− 3 24.9	2.054	3.011	6.4	19.8
10 28	2 23.17	− 4 15.7	2.058	3.020	5.7	19.8
11 7	2 15.46	− 4 51.3	2.090	3.028	7.3	19.9
11 17	2 8.50	− 5 8.4	2.149	3.037	9.7	20.1
11 27	2 2.97	− 5 6.0	2.232	3.045	12.3	20.3
12 7	1 59.32	− 4 45.2	2.335	3.054	14.5	20.5

75436 1999 XY_{126} 10 30.9 9°.13 2°.2/ 1.1 18

9 28	2 44.87	+19 34.2	1.316	2.182	17.1	18.5
10 8	2 40.22	+19 43.1	1.256	2.184	12.9	18.2
10 18	2 32.81	+19 36.4	1.216	2.186	8.0	18.0
10 28	2 23.66	+19 15.4	1.200	2.190	3.2	17.7
11 7	2 14.21	+18 44.4	1.209	2.194	3.9	17.8
11 17	2 5.91	+18 9.8	1.244	2.199	8.8	18.1
11 27	1 59.97	+17 39.3	1.302	2.206	13.4	18.4
12 7	1 57.09	+17 18.7	1.381	2.213	17.3	18.6

453553 2009 WU_{258} 10 30.9 326°.59 8°.0/24.5 18

9 28	2 43.38	− 8 13.1	1.983	2.844	12.4	20.5
10 8	2 38.27	− 9 4.6	1.922	2.833	10.1	20.3
10 18	2 31.34	− 9 46.1	1.885	2.822	8.4	20.2
10 28	2 23.31	−10 11.0	1.873	2.812	8.1	20.2
11 7	2 15.09	−10 14.5	1.887	2.802	9.5	20.2
11 17	2 7.58	− 9 54.5	1.926	2.792	11.8	20.4
11 27	2 1.61	− 9 11.4	1.988	2.783	14.3	20.5
12 7	1 57.70	− 8 7.9	2.069	2.774	16.5	20.7

274104 2008 CK_{199} 10 30.9 77°.09 0°.0/30.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 49.96	+15 52.3	1.414	2.277	16.4	20.9
10 8	2 43.40	+15 30.4	1.369	2.298	11.9	20.7
10 18	2 34.36	+14 56.6	1.346	2.320	6.9	20.5
10 28	2 23.97	+14 14.9	1.349	2.342	1.5	20.2
11 7	2 13.61	+13 31.3	1.379	2.363	3.8	20.4
11 17	2 4.60	+12 52.3	1.436	2.384	8.7	20.8
11 27	1 57.95	+12 23.7	1.518	2.405	13.0	21.1
12 7	1 54.17	+12 9.1	1.621	2.426	16.5	21.4

226414 2003 QE_{106} 10 30.9 43°.67 3°.0/28.3 18

9 28	2 41.60	+ 9 16.9	1.804	2.678	12.8	19.1
10 8	2 36.90	+ 8 5.1	1.761	2.697	9.2	18.9
10 18	2 30.47	+ 6 49.1	1.742	2.717	5.4	18.7
10 28	2 23.10	+ 5 35.1	1.751	2.738	3.0	18.6
11 7	2 15.75	+ 4 29.9	1.787	2.758	5.1	18.8
11 17	2 9.31	+ 3 38.8	1.851	2.779	8.6	19.0
11 27	2 4.50	+ 3 5.4	1.940	2.800	11.9	19.3
12 7	2 1.77	+ 2 50.6	2.051	2.822	14.6	19.5

162482 2000 ON_{59} 10 30.9 54°.33 0°.0/30.8 17

9 28	2 48.10	+16 33.9	1.163	2.038	18.2	19.7
10 8	2 42.59	+16 6.3	1.115	2.050	13.4	19.5
10 18	2 34.13	+15 23.5	1.086	2.062	7.8	19.2
10 28	2 23.96	+14 30.3	1.082	2.075	1.8	18.9
11 7	2 13.69	+13 34.4	1.103	2.088	4.2	19.1
11 17	2 4.89	+12 44.3	1.149	2.101	9.9	19.5
11 27	1 58.76	+12 7.5	1.218	2.114	14.7	19.8
12 7	1 55.89	+11 48.5	1.306	2.128	18.7	20.1

301204 2009 AU_{27} 10 30.9 74°.85 1°.0/31.6 18

9 28	2 46.39	+18 16.9	1.730	2.581	14.4	21.2
10 8	2 40.68	+18 3.1	1.669	2.591	10.6	21.0
10 18	2 32.80	+17 36.8	1.630	2.600	6.4	20.7
10 28	2 23.65	+17 0.7	1.618	2.609	2.0	20.5
11 7	2 14.36	+16 19.2	1.634	2.619	3.1	20.6
11 17	2 6.03	+15 37.8	1.678	2.628	7.5	20.9
11 27	1 59.62	+15 2.5	1.748	2.638	11.4	21.1
12 7	1 55.68	+14 37.7	1.841	2.647	14.7	21.4

331871 2003 YL_{182} 10 30.9 318°.79 3°.6/28.5 18

9 28	2 43.12	+10 9.5	1.207	2.097	16.6	20.7
10 8	2 39.14	+ 9 0.9	1.138	2.083	12.2	20.4
10 18	2 32.32	+ 7 41.3	1.090	2.069	7.2	20.1
10 28	2 23.60	+ 6 19.0	1.066	2.055	3.7	19.8
11 7	2 14.42	+ 5 4.5	1.066	2.042	6.8	20.0
11 17	2 6.27	+ 4 7.6	1.091	2.030	12.0	20.3
11 27	2 0.48	+ 3 35.0	1.137	2.018	16.9	20.5
12 7	1 57.81	+ 3 29.2	1.201	2.007	21.0	20.7

482645 2013 AZ_{125} 10 30.9 262°.29 4°.9/ 4.2 18

9 28	2 46.20	+30 38.6	2.111	2.906	14.2	21.2
10 8	2 40.66	+30 34.5	2.012	2.888	11.5	21.0
10 18	2 32.92	+30 10.4	1.935	2.869	8.4	20.8
10 28	2 23.72	+29 25.1	1.884	2.850	5.7	20.6
11 7	2 14.09	+28 20.7	1.861	2.831	5.0	20.5
11 17	2 5.15	+27 2.4	1.866	2.811	7.3	20.6
11 27	1 57.93	+25 38.2	1.899	2.791	10.5	20.8
12 7	1 53.12	+24 16.4	1.956	2.771	13.7	21.0

424498 2008 DN_{49} 10 30.9 186°.81 3°.7/28.3 18

9 28	2 49.27	+ 5 40.7	1.853	2.715	13.1	21.5
10 8	2 42.62	+ 4 58.2	1.786	2.716	9.6	21.3
10 18	2 33.90	+ 4 14.0	1.744	2.715	5.9	21.0
10 28	2 23.91	+ 3 33.3	1.730	2.713	3.7	20.9
11 7	2 13.73	+ 3 1.6	1.744	2.711	5.7	21.0
11 17	2 4.42	+ 2 43.1	1.787	2.708	9.4	21.2
11 27	1 56.89	+ 2 40.6	1.855	2.705	12.9	21.5
12 7	1 51.75	+ 2 54.7	1.945	2.700	15.9	21.7

322476 2011 UR_{202} 10 30.9 25°.65 0°.5/30.5 18

9 28	2 43.25	+15 33.7	1.676	2.540	14.1	20.8
10 8	2 38.45	+14 52.5	1.613	2.544	10.3	20.6
10 18	2 31.54	+14 0.1	1.573	2.548	5.9	20.4
10 28	2 23.39	+13 0.7	1.560	2.552	1.3	20.1
11 7	2 15.07	+12 0.5	1.574	2.557	3.6	20.3
11 17	2 7.67	+11 6.2	1.616	2.562	8.1	20.6
11 27	2 2.11	+10 23.5	1.683	2.567	12.1	20.8
12 7	1 58.93	+ 9 56.2	1.771	2.573	15.4	21.0

376485 2012 JZ_{66} 10 30.9 259°.70 2°.3/29.4 18

9 28	2 47.16	+11 8.0	1.480	2.352	15.2	21.0
10 8	2 41.67	+10 25.0	1.407	2.343	11.1	20.8
10 18	2 33.61	+ 9 33.4	1.357	2.333	6.4	20.5
10 28	2 23.89	+ 8 38.4	1.332	2.323	2.4	20.2
11 7	2 13.78	+ 7 47.2	1.335	2.313	5.2	20.4
11 17	2 4.62	+ 7 6.7	1.363	2.303	10.0	20.6
11 27	1 57.58	+ 6 42.4	1.416	2.292	14.5	20.9
12 7	1 53.36	+ 6 37.1	1.489	2.282	18.3	21.1

272359 2005 SO_{168} 10 30.9 199°.44 0°.5/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.87	+16 28.6	1.766	2.622	13.9	20.9
10 8	2 40.32	+15 30.0	1.693	2.620	10.2	20.7
10 18	2 32.64	+14 18.0	1.644	2.617	5.9	20.4
10 28	2 23.65	+12 57.4	1.622	2.614	1.3	20.1
11 7	2 14.45	+11 35.1	1.628	2.611	3.6	20.3
11 17	2 6.14	+10 18.7	1.664	2.607	8.2	20.6
11 27	1 59.66	+ 9 15.2	1.725	2.603	12.2	20.8
12 7	1 55.59	+ 8 29.1	1.809	2.598	15.6	21.0

161975 Kincsem 10 30.9 75°.94 0°.4/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.42	+18 46.8	1.639	2.492	14.9	19.4
10 8	2 40.47	+17 12.7	1.595	2.520	10.8	19.2
10 18	2 32.52	+15 23.7	1.575	2.547	6.1	19.0
10 28	2 23.58	+13 27.0	1.582	2.575	1.3	18.7
11 7	2 14.79	+11 32.2	1.619	2.602	3.6	19.0
11 17	2 7.21	+ 9 48.3	1.685	2.629	8.1	19.3
11 27	2 1.62	+ 8 22.7	1.778	2.655	12.0	19.6
12 7	1 58.43	+ 7 19.0	1.893	2.681	15.1	19.9

107486 2001 DL_{37} 10 30.9 126°.07 7°.6/24.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.34	− 4 39.7	1.860	2.728	12.8	19.5
10 8	2 38.92	− 6 9.2	1.815	2.734	10.1	19.3
10 18	2 31.68	− 7 31.1	1.794	2.741	8.1	19.2
10 28	2 23.42	− 8 37.5	1.800	2.747	7.8	19.2
11 7	2 15.09	− 9 22.0	1.833	2.753	9.4	19.3
11 17	2 7.62	− 9 41.4	1.890	2.758	11.9	19.5
11 27	2 1.81	− 9 35.3	1.971	2.764	14.4	19.7
12 7	1 58.13	− 9 6.2	2.070	2.769	16.7	19.9

123874 2001 DQ_{28} 10 30.9 210°.86 0°.1/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.50	+15 7.7	2.562	3.407	10.4	20.5
10 8	2 38.08	+14 48.7	2.482	3.403	7.6	20.3
10 18	2 31.16	+14 22.6	2.427	3.398	4.4	20.1
10 28	2 23.32	+13 51.6	2.401	3.393	1.0	19.8
11 7	2 15.28	+13 18.9	2.405	3.388	2.5	19.9
11 17	2 7.80	+12 48.0	2.440	3.383	5.9	20.1
11 27	2 1.56	+12 22.6	2.502	3.377	9.0	20.3
12 7	1 57.03	+12 5.4	2.589	3.371	11.6	20.5

482607 2013 AJ_{9} 10 30.9 228°.04 1°.5/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.82	+11 5.2	2.052	2.911	12.1	21.2
10 8	2 40.07	+10 42.1	1.976	2.905	8.8	21.0
10 18	2 32.43	+10 13.6	1.925	2.899	5.1	20.8
10 28	2 23.62	+ 9 42.8	1.902	2.893	1.6	20.5
11 7	2 14.55	+ 9 14.1	1.907	2.886	3.7	20.7
11 17	2 6.19	+ 8 51.4	1.942	2.880	7.6	20.9
11 27	1 59.37	+ 8 38.5	2.003	2.873	11.1	21.1
12 7	1 54.69	+ 8 37.6	2.087	2.865	14.2	21.3

225101 2008 DS_{35} 10 30.9 96°.12 1°.7/29.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.86	+13 29.8	1.499	2.368	15.3	20.0
10 8	2 41.11	+12 27.3	1.447	2.381	11.0	19.8
10 18	2 33.07	+11 14.3	1.418	2.394	6.2	19.5
10 28	2 23.74	+ 9 57.3	1.415	2.407	1.9	19.3
11 7	2 14.37	+ 8 44.2	1.440	2.419	4.6	19.5
11 17	2 6.15	+ 7 42.6	1.492	2.432	9.2	19.8
11 27	2 0.05	+ 6 58.2	1.568	2.444	13.3	20.1
12 7	1 56.59	+ 6 33.7	1.666	2.456	16.7	20.4

229161 2004 TL_{52} 10 30.9 14°.79 0°.4/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.95	+16 57.8	1.895	2.750	13.1	20.3
10 8	2 38.09	+16 37.6	1.827	2.753	9.6	20.0
10 18	2 31.30	+16 6.8	1.783	2.755	5.7	19.8
10 28	2 23.36	+15 28.2	1.766	2.758	1.5	19.5
11 7	2 15.23	+14 46.2	1.777	2.762	3.0	19.7
11 17	2 7.90	+14 5.9	1.816	2.765	7.1	19.9
11 27	2 2.21	+13 32.5	1.882	2.769	10.8	20.2
12 7	1 58.71	+13 9.8	1.969	2.774	14.0	20.4

292318 2006 SW_{165} 10 30.9 92°.60 1°.2/29.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.32	+15 19.4	1.423	2.290	16.0	20.7
10 8	2 41.52	+14 11.5	1.373	2.306	11.6	20.5
10 18	2 33.32	+12 50.5	1.345	2.321	6.6	20.3
10 28	2 23.79	+11 23.2	1.344	2.336	1.6	20.0
11 7	2 14.26	+ 9 58.5	1.369	2.351	4.4	20.2
11 17	2 5.98	+ 8 45.0	1.422	2.365	9.3	20.6
11 27	1 59.93	+ 7 49.5	1.499	2.379	13.6	20.8
12 7	1 56.63	+ 7 15.0	1.597	2.393	17.1	21.1

480064 2015 DN_{96} 10 30.9 198°.52 3°.1/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.18	+22 22.4	1.554	2.394	16.3	22.0
10 8	2 43.93	+22 34.4	1.482	2.393	12.5	21.8
10 18	2 34.96	+22 30.0	1.431	2.392	8.1	21.5
10 28	2 24.22	+22 8.8	1.406	2.391	4.0	21.3
11 7	2 13.09	+21 34.0	1.407	2.389	4.1	21.3
11 17	2 3.00	+20 51.4	1.436	2.387	8.3	21.6
11 27	1 55.17	+20 9.0	1.490	2.385	12.6	21.8
12 7	1 50.35	+19 33.8	1.566	2.383	16.4	22.0

119322 2001 SA_{119} 10 30.9 154°.73 2°.7/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 48.50	+23 55.6	1.888	2.714	14.4	20.5
10 8	2 42.18	+23 38.7	1.817	2.721	11.0	20.3
10 18	2 33.69	+23 5.0	1.769	2.727	7.2	20.0
10 28	2 23.90	+22 15.7	1.748	2.733	3.5	19.8
11 7	2 13.94	+21 15.0	1.756	2.738	3.5	19.8
11 17	2 4.93	+20 9.3	1.793	2.743	7.1	20.1
11 27	1 57.82	+19 5.8	1.856	2.747	10.8	20.3
12 7	1 53.19	+18 11.1	1.944	2.750	14.1	20.5

391845 2008 SM_{257} 10 30.9 8°.73 0°.4/31.4 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 39.09	+16 18.7	3.894	4.729	7.4	20.5
10 8	2 34.48	+16 22.7	3.815	4.730	5.4	20.3
10 18	2 28.93	+16 22.1	3.763	4.731	3.2	20.2
10 28	2 22.82	+16 17.9	3.741	4.732	0.9	20.0
11 7	2 16.59	+16 11.5	3.750	4.733	1.6	20.1
11 17	2 10.69	+16 4.7	3.789	4.735	3.9	20.2
11 27	2 5.56	+15 59.3	3.858	4.736	6.0	20.4
12 7	2 1.54	+15 57.1	3.953	4.738	7.9	20.5

282945 2007 RS_{45} 10 30.9 57°.97 0°.9/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.10	+15 29.9	1.507	2.374	15.3	20.1
10 8	2 39.76	+14 32.2	1.462	2.394	11.0	19.9
10 18	2 32.25	+13 22.9	1.439	2.415	6.2	19.7
10 28	2 23.56	+12 7.9	1.443	2.435	1.4	19.4
11 7	2 14.90	+10 54.8	1.474	2.456	4.0	19.7
11 17	2 7.41	+ 9 51.1	1.532	2.477	8.6	20.0
11 27	2 1.98	+ 9 2.8	1.615	2.498	12.6	20.3
12 7	1 59.08	+ 8 32.8	1.720	2.519	15.9	20.5

201548 2003 QQ_{110} 10 30.9 92°.62 1°.8/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.64	+10 44.5	1.796	2.656	13.5	20.4
10 8	2 42.01	+10 13.9	1.750	2.679	9.7	20.2
10 18	2 33.43	+ 9 38.1	1.728	2.702	5.5	20.0
10 28	2 23.82	+ 9 1.4	1.734	2.724	1.9	19.8
11 7	2 14.25	+ 8 28.7	1.768	2.746	4.1	20.0
11 17	2 5.73	+ 8 4.2	1.831	2.768	8.1	20.3
11 27	1 59.08	+ 7 51.4	1.920	2.789	11.6	20.6
12 7	1 54.77	+ 7 51.9	2.031	2.809	14.5	20.8

477256 2009 SB_{61} 10 30.9 69°.88 2°.3/ 1.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.81	+21 46.3	1.370	2.220	17.5	21.5
10 8	2 43.44	+21 28.9	1.325	2.244	13.1	21.3
10 18	2 34.46	+20 52.9	1.302	2.268	8.2	21.1
10 28	2 24.06	+20 1.0	1.303	2.291	3.3	20.9
11 7	2 13.72	+18 59.7	1.331	2.315	3.8	21.0
11 17	2 4.82	+17 57.1	1.385	2.338	8.4	21.3
11 27	1 58.39	+17 1.6	1.465	2.362	12.7	21.6
12 7	1 54.96	+16 19.3	1.566	2.385	16.3	21.9

435099 2007 CL_{64} 10 30.9 135°.12 0°.9/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.03	+17 54.4	1.766	2.612	14.3	21.7
10 8	2 42.59	+17 42.9	1.701	2.621	10.6	21.5
10 18	2 33.95	+17 19.6	1.660	2.629	6.3	21.3
10 28	2 23.98	+16 46.5	1.646	2.637	1.9	21.0
11 7	2 13.84	+16 7.9	1.661	2.645	3.2	21.1
11 17	2 4.68	+15 29.3	1.704	2.652	7.5	21.4
11 27	1 57.47	+14 56.4	1.773	2.659	11.5	21.7
12 7	1 52.81	+14 33.7	1.865	2.665	14.8	21.9

261699 2005 YS_{227} 10 30.9 302°.59 7°.0/24.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.84	− 5 31.5	2.090	2.954	11.7	20.1
10 8	2 37.79	− 6 34.8	2.032	2.948	9.3	19.9
10 18	2 31.06	− 7 30.8	1.998	2.943	7.5	19.8
10 28	2 23.33	− 8 13.1	1.991	2.938	7.1	19.8
11 7	2 15.44	− 8 36.8	2.011	2.933	8.6	19.8
11 17	2 8.25	− 8 38.9	2.056	2.928	10.9	20.0
11 27	2 2.49	− 8 19.2	2.125	2.923	13.4	20.1
12 7	1 58.68	− 7 39.3	2.214	2.918	15.6	20.3

20731 Mothédiniz 10 30.9 14°.00 5°.6/26.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.45	+ 0 18.7	1.901	2.775	12.3	17.7
10 8	2 37.60	− 0 41.6	1.846	2.776	9.2	17.6
10 18	2 30.97	− 1 38.8	1.815	2.778	6.5	17.4
10 28	2 23.31	− 2 26.5	1.811	2.780	5.6	17.4
11 7	2 15.52	− 2 59.1	1.835	2.783	7.3	17.5
11 17	2 8.51	− 3 13.2	1.884	2.785	10.2	17.7
11 27	2 3.06	− 3 7.2	1.957	2.788	13.1	17.9
12 7	1 59.66	− 2 42.1	2.051	2.791	15.6	18.0

69900 1998 SN_{138} 10 30.9 306°.51 1°.0/31.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.84	+17 44.9	2.022	2.871	12.7	19.0
10 8	2 38.89	+17 40.3	1.929	2.850	9.5	18.7
10 18	2 31.91	+17 25.5	1.859	2.828	5.8	18.5
10 28	2 23.56	+17 1.8	1.816	2.807	1.8	18.2
11 7	2 14.78	+16 32.4	1.802	2.786	2.9	18.2
11 17	2 6.57	+16 1.5	1.816	2.766	7.0	18.4
11 27	1 59.90	+15 34.3	1.856	2.745	10.9	18.6
12 7	1 55.42	+15 15.1	1.920	2.725	14.3	18.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
451142 2009 QY_{58}			10 30.9	36°.97	9°.6/25.3	17
	h m	° ′			°	m
9 28	2 46.12	−10 4.5	1.583	2.447	14.8	19.5
10 8	2 40.24	−10 57.3	1.560	2.470	12.1	19.4
10 18	2 32.40	−11 34.0	1.560	2.494	10.1	19.3
10 28	2 23.60	−11 47.8	1.584	2.519	9.6	19.3
11 7	2 14.96	−11 35.1	1.632	2.544	10.9	19.5
11 17	2 7.50	−10 56.1	1.704	2.570	13.1	19.7
11 27	2 2.00	− 9 53.6	1.799	2.596	15.4	19.9
12 7	1 58.87	− 8 32.5	1.911	2.623	17.5	20.1
392375 2010 HK_{78}			10 30.9	317°.25	0°.3/31.1	18
9 28	2 41.67	+21 50.8	1.517	2.374	15.8	19.9
10 8	2 37.68	+20 7.9	1.435	2.360	11.8	19.7
10 18	2 31.30	+17 59.0	1.375	2.347	7.0	19.4
10 28	2 23.42	+15 30.7	1.342	2.334	1.7	19.0
11 7	2 15.25	+12 54.2	1.337	2.321	3.8	19.1
11 17	2 8.02	+10 23.3	1.361	2.309	9.0	19.4
11 27	2 2.79	+ 8 10.7	1.411	2.298	13.8	19.6
12 7	2 0.20	+ 6 24.7	1.483	2.287	17.8	19.9
475103 2005 UV_{231}			10 30.9	337°.63	0°.2/30.8	18
9 28	2 42.21	+15 50.2	1.171	2.055	17.5	20.6
10 8	2 38.67	+15 24.7	1.101	2.041	12.9	20.3
10 18	2 32.16	+14 43.9	1.051	2.028	7.6	20.0
10 28	2 23.66	+13 51.9	1.024	2.016	1.7	19.6
11 7	2 14.64	+12 56.1	1.021	2.006	4.4	19.7
11 17	2 6.68	+12 5.4	1.042	1.996	10.3	20.0
11 27	2 1.16	+11 28.4	1.085	1.988	15.6	20.3
12 7	1 58.89	+11 10.2	1.146	1.981	20.0	20.6
523005 2016 PO_{121}			10 30.9	219°.37	4°.1/27.9	18
9 28	2 45.71	+ 7 19.7	1.556	2.432	14.4	21.7
10 8	2 40.38	+ 6 11.0	1.493	2.430	10.5	21.5
10 18	2 32.77	+ 4 57.6	1.454	2.428	6.4	21.2
10 28	2 23.76	+ 3 46.6	1.441	2.426	4.1	21.1
11 7	2 14.54	+ 2 46.1	1.455	2.423	6.5	21.2
11 17	2 6.27	+ 2 2.5	1.496	2.421	10.5	21.5
11 27	1 59.98	+ 1 39.9	1.560	2.418	14.4	21.7
12 7	1 56.25	+ 1 39.3	1.644	2.415	17.7	21.9
139103 2001 FW_{42}			10 30.9	157°.25	1°.8/29.6	17
9 28	2 47.30	+12 24.8	1.596	2.462	14.6	20.3
10 8	2 41.48	+11 34.8	1.533	2.466	10.6	20.1
10 18	2 33.37	+10 35.8	1.494	2.469	6.1	19.8
10 28	2 23.90	+ 9 33.0	1.481	2.472	2.0	19.6
11 7	2 14.24	+ 8 33.4	1.496	2.475	4.6	19.7
11 17	2 5.59	+ 7 43.6	1.538	2.477	9.1	20.0
11 27	1 58.95	+ 7 9.1	1.605	2.479	13.2	20.3
12 7	1 54.91	+ 6 52.6	1.694	2.481	16.6	20.5
410955 2009 SN_{349}			10 30.9	358°.58	0°.2/31.1	18
9 28	2 41.06	+17 51.6	1.893	2.749	13.1	20.5
10 8	2 36.75	+17 8.0	1.822	2.748	9.6	20.3
10 18	2 30.57	+16 11.9	1.774	2.747	5.7	20.1
10 28	2 23.26	+15 6.8	1.754	2.746	1.4	19.8
11 7	2 15.76	+13 58.6	1.762	2.746	3.0	19.9
11 17	2 9.03	+12 53.4	1.798	2.746	7.2	20.2
11 27	2 3.90	+11 57.6	1.860	2.747	11.0	20.4
12 7	2 0.90	+11 15.4	1.944	2.748	14.2	20.6
90714 1990 VJ_{6}			10 30.9	307°.03	1°.7/29.4	18
9 28	2 41.34	+12 58.0	1.891	2.758	12.6	18.9
10 8	2 37.03	+11 56.6	1.808	2.742	9.2	18.7
10 18	2 30.80	+10 45.0	1.750	2.726	5.3	18.4
10 28	2 23.33	+ 9 28.4	1.720	2.711	1.8	18.2
11 7	2 15.58	+ 8 13.4	1.718	2.696	4.2	18.3
11 17	2 8.49	+ 7 6.7	1.743	2.681	8.3	18.5
11 27	2 2.95	+ 6 14.4	1.794	2.667	12.1	18.7
12 7	1 59.57	+ 5 39.8	1.868	2.652	15.4	18.9
365356 2009 SJ_{330}			10 30.9	63°.64	2°.8/ 2.7	18
9 28	2 43.00	+25 53.9	2.130	2.951	13.2	20.1
10 8	2 38.00	+25 23.9	2.061	2.960	10.2	19.9
10 18	2 31.21	+24 37.1	2.015	2.968	6.8	19.7
10 28	2 23.40	+23 35.3	1.995	2.977	3.6	19.5
11 7	2 15.49	+22 22.8	2.004	2.985	3.3	19.5
11 17	2 8.38	+21 5.6	2.043	2.994	6.2	19.7
11 27	2 2.84	+19 50.7	2.109	3.003	9.5	19.9
12 7	1 59.38	+18 43.9	2.199	3.012	12.4	20.1
263066 2007 JW_{20}			10 30.9	99°.43	7°.1/24.8	18
9 28	2 44.38	− 8 33.9	2.309	3.160	11.2	19.9
10 8	2 38.68	− 9 22.3	2.262	3.167	9.1	19.8
10 18	2 31.49	−10 0.9	2.240	3.174	7.5	19.7
10 28	2 23.46	−10 24.6	2.245	3.180	7.2	19.7
11 7	2 15.38	−10 29.7	2.278	3.186	8.4	19.8
11 17	2 8.02	−10 14.8	2.336	3.193	10.4	19.9
11 27	2 2.05	− 9 40.3	2.418	3.199	12.4	20.1
12 7	1 57.89	− 8 48.5	2.521	3.205	14.3	20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
410625 2008 QK_{36}			10 30.9	10°.82	3°.6/ 2.6	16
	h m	° ′			°	m
9 28	2 44.08	+24 28.7	1.863	2.695	14.3	20.9
10 8	2 39.12	+24 43.5	1.793	2.697	11.1	20.7
10 18	2 32.03	+24 42.7	1.746	2.700	7.5	20.5
10 28	2 23.61	+24 26.5	1.724	2.704	4.3	20.3
11 7	2 14.94	+23 57.3	1.729	2.708	4.0	20.3
11 17	2 7.09	+23 19.8	1.762	2.713	7.1	20.5
11 27	2 1.03	+22 40.2	1.821	2.719	10.6	20.7
12 7	1 57.36	+22 4.7	1.903	2.725	13.7	21.0
53316 Michielford			10 30.9	108°.87	1°.5/29.7	18
9 28	2 44.61	+11 19.5	2.104	2.964	11.9	19.0
10 8	2 39.04	+10 47.4	2.043	2.972	8.5	18.8
10 18	2 31.78	+10 9.9	2.007	2.981	4.9	18.6
10 28	2 23.53	+ 9 30.7	1.999	2.990	1.6	18.4
11 7	2 15.18	+ 8 54.1	2.019	2.998	3.6	18.6
11 17	2 7.60	+ 8 24.4	2.069	3.006	7.2	18.8
11 27	2 1.52	+ 8 4.9	2.146	3.014	10.6	19.0
12 7	1 57.44	+ 7 57.8	2.245	3.022	13.3	19.2
398552 2011 US_{377}			10 30.9	350°.75	2°.9/28.9	18
9 28	2 43.68	+ 8 48.2	1.588	2.465	14.1	20.9
10 8	2 38.91	+ 8 6.6	1.524	2.461	10.2	20.6
10 18	2 31.93	+ 7 20.1	1.483	2.459	6.0	20.4
10 28	2 23.60	+ 6 34.2	1.468	2.456	3.0	20.2
11 7	2 15.03	+ 5 55.1	1.479	2.454	5.3	20.3
11 17	2 7.36	+ 5 28.2	1.517	2.453	9.5	20.6
11 27	2 1.56	+ 5 17.6	1.580	2.452	13.5	20.8
12 7	1 58.24	+ 5 24.5	1.663	2.452	16.8	21.0
496782 2017 EX_{16}			10 30.9	357°.71	4°.4/26.9	18
9 28	2 41.23	+ 2 54.6	2.097	2.969	11.3	20.6
10 8	2 36.63	+ 1 59.3	2.036	2.968	8.4	20.4
10 18	2 30.41	+ 1 4.6	1.999	2.967	5.6	20.2
10 28	2 23.24	+ 0 16.1	1.991	2.966	4.4	20.1
11 7	2 15.92	− 0 21.3	2.010	2.966	6.1	20.3
11 17	2 9.28	− 0 43.7	2.056	2.966	9.0	20.4
11 27	2 4.03	− 0 49.0	2.127	2.967	11.9	20.6
12 7	2 0.65	− 0 37.0	2.220	2.967	14.4	20.8
414728 2009 XS_{22}			10 30.9	323°.18	13°.4/13.1	16
9 28	2 53.06	+53 58.3	2.208	2.835	18.0	20.6
10 8	2 46.99	+55 27.8	2.121	2.822	16.7	20.5
10 18	2 37.31	+56 30.7	2.049	2.809	15.4	20.3
10 28	2 24.94	+56 59.5	1.995	2.796	14.3	20.2
11 7	2 11.53	+56 50.0	1.960	2.784	13.6	20.2
11 17	1 59.05	+56 2.7	1.947	2.772	13.5	20.1
11 27	1 49.36	+54 43.9	1.955	2.760	14.1	20.2
12 7	1 43.53	+53 4.2	1.984	2.750	15.2	20.2
17594 1995 DX_{5}			10 30.9	153°.17	3°.6/ 3.1	18
9 28	2 46.25	+26 33.8	2.474	3.278	12.1	18.3
10 8	2 40.30	+26 53.2	2.395	3.280	9.5	18.1
10 18	2 32.57	+26 59.3	2.340	3.282	6.7	17.9
10 28	2 23.74	+26 51.5	2.312	3.285	4.2	17.8
11 7	2 14.67	+26 31.3	2.314	3.287	3.9	17.8
11 17	2 6.24	+26 2.0	2.344	3.289	6.1	17.9
11 27	1 59.24	+25 28.2	2.403	3.290	8.8	18.1
12 7	1 54.24	+24 55.0	2.487	3.292	11.4	18.3
228831 2003 DN_{2}			10 30.9	219°.71	0°.8/30.3	18
9 28	2 46.95	+14 12.3	1.840	2.696	13.4	21.5
10 8	2 41.14	+13 37.6	1.763	2.690	9.8	21.2
10 18	2 33.19	+12 53.2	1.709	2.683	5.7	21.0
10 28	2 23.90	+12 2.8	1.684	2.676	1.3	20.7
11 7	2 14.32	+11 11.7	1.687	2.668	3.6	20.8
11 17	2 5.53	+10 25.7	1.718	2.660	8.0	21.1
11 27	1 58.50	+ 9 50.1	1.775	2.652	12.0	21.3
12 7	1 53.86	+ 9 28.7	1.855	2.643	15.4	21.5
479433 2013 YG_{95}			10 30.9	196°.22	1°.6/29.7	18
9 28	2 47.29	+11 14.7	1.911	2.770	12.9	21.5
10 8	2 41.25	+10 43.3	1.839	2.768	9.4	21.3
10 18	2 33.19	+10 5.5	1.791	2.766	5.4	21.0
10 28	2 23.89	+ 9 25.3	1.772	2.763	1.8	20.8
11 7	2 14.36	+ 8 47.5	1.781	2.760	4.0	20.9
11 17	2 5.62	+ 8 17.0	1.819	2.756	8.1	21.2
11 27	1 58.59	+ 7 57.8	1.883	2.752	11.8	21.4
12 7	1 53.84	+ 7 52.4	1.969	2.748	14.9	21.6
521108 2015 DG_{245}			10 30.9	101°.14	4°.3/28.0	18
9 28	2 47.68	+ 4 54.2	1.642	2.514	14.0	21.3
10 8	2 41.55	+ 4 5.4	1.593	2.526	10.2	21.1
10 18	2 33.32	+ 3 16.3	1.567	2.538	6.4	20.9
10 28	2 23.90	+ 2 33.1	1.568	2.550	4.3	20.8
11 7	2 14.43	+ 2 1.5	1.596	2.562	6.3	20.9
11 17	2 6.00	+ 1 45.8	1.651	2.573	10.0	21.2
11 27	1 59.52	+ 1 48.1	1.731	2.584	13.5	21.4
12 7	1 55.50	+ 2 8.2	1.831	2.595	16.4	21.7

176167 2001 KC_6 10 30.9 126°.73 1°.6/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.72	+10 38.1	2.128	2.984	11.9	20.6
10 8	2 40.52	+10 9.6	2.069	2.997	8.6	20.4
10 18	2 32.62	+ 9 36.5	2.036	3.009	4.9	20.3
10 28	2 23.74	+ 9 2.2	2.030	3.021	1.7	20.1
11 7	2 14.79	+ 8 31.0	2.055	3.033	3.7	20.2
11 17	2 6.64	+ 8 6.6	2.109	3.044	7.3	20.5
11 27	2 0.04	+ 7 52.3	2.189	3.054	10.5	20.7
12 7	1 55.49	+ 7 49.8	2.293	3.065	13.3	20.9

39300 Auyeungsungfan 10 30.9 121°.33 3°.5/28.4 18

9 28	2 47.08	+ 8 9.9	1.574	2.446	14.4	19.1
10 8	2 41.25	+ 7 7.8	1.520	2.455	10.5	18.9
10 18	2 33.21	+ 6 1.0	1.489	2.463	6.3	18.7
10 28	2 23.88	+ 4 56.4	1.484	2.471	3.6	18.6
11 7	2 14.46	+ 4 1.2	1.508	2.479	5.9	18.7
11 17	2 6.09	+ 3 21.4	1.558	2.486	9.9	19.0
11 27	1 59.72	+ 3 0.8	1.632	2.493	13.7	19.2
12 7	1 55.90	+ 3 0.1	1.727	2.500	16.9	19.5

350062 2011 AN_{10} 10 30.9 339°.44 3°.8/ 3.3 18

9 28	2 43.85	+27 17.5	2.154	2.967	13.3	20.5
10 8	2 38.77	+27 15.5	2.075	2.965	10.5	20.3
10 18	2 31.77	+26 57.0	2.018	2.963	7.4	20.1
10 28	2 23.58	+26 22.0	1.987	2.962	4.5	19.9
11 7	2 15.14	+25 33.3	1.984	2.960	4.1	19.9
11 17	2 7.43	+24 35.6	2.010	2.959	6.5	20.1
11 27	2 1.31	+23 35.5	2.063	2.958	9.7	20.3
12 7	1 57.36	+22 39.3	2.140	2.957	12.6	20.5

117508 2005 CA_{36} 10 30.9 278°.84 4°.6/25.6 18

9 28	2 40.25	+ 3 17.6	2.335	3.205	10.4	19.8
10 8	2 35.85	+ 1 39.9	2.263	3.193	7.8	19.6
10 18	2 29.96	+ 0 0.3	2.217	3.182	5.4	19.5
10 28	2 23.16	− 1 34.6	2.201	3.171	4.7	19.4
11 7	2 16.17	− 2 58.1	2.214	3.159	6.4	19.5
11 17	2 9.74	− 4 5.0	2.255	3.148	9.1	19.7
11 27	2 4.54	− 4 51.7	2.321	3.136	11.8	19.8
12 7	2 1.04	− 5 17.5	2.408	3.125	14.2	20.0

442383 2011 US_{16} 10 30.9 335°.82 0°.7/30.5 18

9 28	2 44.24	+13 16.6	1.470	2.344	15.2	20.4
10 8	2 39.68	+13 9.3	1.396	2.331	11.2	20.2
10 18	2 32.58	+12 53.5	1.343	2.319	6.5	19.9
10 28	2 23.80	+12 32.2	1.315	2.308	1.5	19.5
11 7	2 14.57	+12 10.2	1.313	2.297	4.0	19.7
11 17	2 6.21	+11 52.6	1.338	2.287	9.0	19.9
11 27	1 59.89	+11 44.6	1.386	2.279	13.6	20.2
12 7	1 56.36	+11 49.8	1.455	2.271	17.5	20.4

505380 2013 JH_{25} 10 30.9 94°.53 0°.1/30.8 17

9 28	2 49.15	+16 51.4	1.250	2.119	17.7	21.6
10 8	2 43.30	+16 10.5	1.197	2.129	12.9	21.4
10 18	2 34.60	+15 13.8	1.164	2.139	7.5	21.1
10 28	2 24.22	+14 6.6	1.156	2.148	1.7	20.8
11 7	2 13.71	+12 57.0	1.173	2.158	4.2	21.0
11 17	2 4.58	+11 54.0	1.217	2.167	9.7	21.3
11 27	1 58.02	+11 5.8	1.284	2.176	14.5	21.6
12 7	1 54.63	+10 36.7	1.372	2.185	18.5	21.9

244751 2003 SZ_{57} 10 30.9 82°.25 2°.3/ 1.3 18

9 28	2 50.68	+19 41.2	1.726	2.566	14.9	20.1
10 8	2 43.98	+20 7.9	1.661	2.575	11.2	19.9
10 18	2 34.87	+20 22.7	1.620	2.584	7.1	19.6
10 28	2 24.29	+20 25.3	1.605	2.593	3.1	19.4
11 7	2 13.46	+20 18.0	1.619	2.602	3.6	19.5
11 17	2 3.62	+20 4.8	1.661	2.610	7.6	19.7
11 27	1 55.83	+19 51.0	1.729	2.619	11.5	20.0
12 7	1 50.75	+19 41.7	1.819	2.628	14.8	20.2

15214 1981 DY 10 30.9 137°.62 2°.7/ 2.4 18

9 28	2 46.00	+24 29.4	2.255	3.073	12.6	19.1
10 8	2 40.11	+24 16.2	2.184	3.082	9.7	18.9
10 18	2 32.43	+23 48.5	2.137	3.091	6.4	18.7
10 28	2 23.72	+23 7.4	2.117	3.099	3.4	18.5
11 7	2 14.87	+22 16.3	2.126	3.107	3.2	18.5
11 17	2 6.79	+21 20.0	2.165	3.114	6.1	18.7
11 27	2 0.27	+20 24.4	2.232	3.122	9.3	18.9
12 7	1 55.83	+19 34.8	2.324	3.128	12.1	19.1

276766 2004 GM_{60} 10 30.9 159°.41 2°.3/29.1 18

9 28	2 46.72	+10 59.8	1.785	2.649	13.4	21.5
10 8	2 40.85	+10 0.0	1.722	2.654	9.7	21.2
10 18	2 32.94	+ 8 53.0	1.684	2.659	5.6	21.0
10 28	2 23.84	+ 7 44.3	1.673	2.663	2.4	20.8
11 7	2 14.60	+ 6 40.5	1.691	2.666	4.7	21.0
11 17	2 6.27	+ 5 48.0	1.737	2.669	8.7	21.2
11 27	1 59.75	+ 5 11.3	1.808	2.672	12.5	21.5
12 7	1 55.57	+ 4 52.7	1.902	2.674	15.6	21.7

318919 2005 UC_{62} 10 30.9 323°.35 0°.9/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 41.82	+20 20.5	1.920	2.768	13.3	20.7
10 8	2 37.36	+19 30.8	1.842	2.762	9.9	20.5
10 18	2 30.98	+18 25.6	1.787	2.755	6.0	20.2
10 28	2 23.41	+17 8.5	1.758	2.749	1.9	20.0
11 7	2 15.62	+15 45.2	1.759	2.744	2.9	20.0
11 17	2 8.58	+14 23.0	1.788	2.738	7.1	20.3
11 27	2 3.16	+13 9.0	1.844	2.733	10.9	20.5
12 7	1 59.91	+12 8.9	1.923	2.728	14.2	20.7

374702 2006 RJ_{62} 10 30.9 25°.46 0°.5/30.7 18 R

9 28	2 46.30	+13 22.4	0.850	1.750	20.8	19.9
10 8	2 41.84	+13 28.2	0.818	1.766	15.1	19.6
10 18	2 33.92	+13 22.4	0.804	1.784	8.7	19.4
10 28	2 24.06	+13 9.4	0.810	1.803	1.9	19.1
11 7	2 14.24	+12 55.7	0.839	1.824	4.9	19.3
11 17	2 6.26	+12 47.9	0.890	1.847	11.1	19.8
11 27	2 1.41	+12 51.7	0.961	1.871	16.3	20.2
12 7	2 0.22	+13 9.7	1.050	1.897	20.5	20.5

332893 2011 BP_{12} 10 30.9 227°.28 4°.7/25.7 17

9 28	2 41.79	− 1 35.5	2.795	3.654	9.3	21.9
10 8	2 36.74	− 2 31.3	2.724	3.644	7.1	21.7
10 18	2 30.39	− 3 24.2	2.680	3.634	5.3	21.6
10 28	2 23.27	− 4 9.7	2.664	3.624	4.8	21.5
11 7	2 15.99	− 4 43.8	2.677	3.613	6.0	21.6
11 17	2 9.19	− 5 3.7	2.719	3.602	8.2	21.7
11 27	2 3.45	− 5 7.9	2.786	3.590	10.4	21.9
12 7	1 59.21	− 4 56.4	2.876	3.578	12.4	22.0

364932 2008 FQ_{67} 10 30.9 227°.29 1°.0/29.9 18

9 28	2 43.76	+12 53.3	2.386	3.239	10.9	21.9
10 8	2 38.42	+12 17.9	2.304	3.230	7.9	21.7
10 18	2 31.47	+11 35.9	2.248	3.221	4.5	21.5
10 28	2 23.53	+10 50.3	2.220	3.212	1.2	21.2
11 7	2 15.37	+10 5.1	2.222	3.202	3.2	21.4
11 17	2 7.79	+ 9 24.8	2.254	3.192	6.7	21.6
11 27	2 1.51	+ 8 53.3	2.314	3.182	9.9	21.8
12 7	1 57.04	+ 8 33.3	2.397	3.171	12.7	22.0

191285 2003 FU_{57} 10 30.9 77°.28 1°.1/30.3 18

9 28	2 49.65	+12 3.1	1.542	2.407	15.1	19.6
10 8	2 43.23	+11 56.4	1.487	2.418	11.0	19.4
10 18	2 34.42	+11 43.0	1.454	2.429	6.3	19.1
10 28	2 24.20	+11 26.1	1.448	2.440	1.6	18.8
11 7	2 13.85	+11 10.0	1.470	2.452	4.0	19.1
11 17	2 4.61	+10 59.2	1.519	2.463	8.7	19.4
11 27	1 57.53	+10 57.7	1.593	2.474	12.8	19.6
12 7	1 53.18	+11 7.9	1.688	2.486	16.2	19.9

283806 2003 SM_{133} 10 30.9 73°.97 5°.1/ 4.0 18

9 28	2 47.61	+29 33.5	1.673	2.486	16.5	20.1
10 8	2 41.86	+29 33.1	1.610	2.498	13.1	19.9
10 18	2 33.67	+29 10.1	1.569	2.511	9.4	19.7
10 28	2 24.03	+28 24.2	1.552	2.523	6.1	19.5
11 7	2 14.25	+27 19.5	1.562	2.536	5.3	19.5
11 17	2 5.60	+26 2.9	1.599	2.549	7.9	19.7
11 27	1 59.13	+24 44.0	1.663	2.561	11.3	19.9
12 7	1 55.42	+23 31.2	1.749	2.574	14.6	20.2

47354 1999 XU_{59} 10 30.9 137°.58 1°.7/ 1.2 18

9 28	2 48.57	+21 18.6	1.706	2.546	15.1	18.8
10 8	2 42.37	+20 47.8	1.642	2.556	11.3	18.6
10 18	2 33.89	+20 0.6	1.600	2.565	7.0	18.4
10 28	2 24.08	+18 59.7	1.584	2.574	2.6	18.1
11 7	2 14.13	+17 50.6	1.598	2.582	3.3	18.2
11 17	2 5.24	+16 40.7	1.639	2.589	7.6	18.5
11 27	1 58.37	+15 37.5	1.707	2.596	11.6	18.7
12 7	1 54.11	+14 46.9	1.798	2.603	15.1	19.0

48334 2002 OX_{18} 10 30.9 41°.20 3°.8/28.9 18

9 28	2 46.96	+ 8 35.5	1.073	1.965	18.1	18.5
10 8	2 41.72	+ 7 45.8	1.038	1.983	13.0	18.2
10 18	2 33.64	+ 6 51.5	1.023	2.001	7.7	18.0
10 28	2 24.01	+ 6 0.8	1.031	2.020	3.9	17.9
11 7	2 14.44	+ 5 22.1	1.064	2.040	6.7	18.1
11 17	2 6.43	+ 5 1.4	1.120	2.061	11.5	18.4
11 27	2 1.07	+ 5 1.8	1.198	2.082	16.0	18.8
12 7	1 58.85	+ 5 23.0	1.295	2.103	19.6	19.1

294651 2008 AF_{74} 10 30.9 145°.26 1°.4/ 1.1 18

9 28	2 45.12	+20 1.8	2.092	2.931	12.7	21.2
10 8	2 39.59	+19 44.9	2.020	2.934	9.5	21.0
10 18	2 32.21	+19 15.9	1.972	2.937	5.9	20.8
10 28	2 23.71	+18 36.6	1.951	2.940	2.2	20.5
11 7	2 15.02	+17 50.9	1.959	2.943	2.8	20.6
11 17	2 7.09	+17 3.6	1.996	2.946	6.5	20.8
11 27	2 0.74	+16 20.2	2.060	2.948	10.0	21.1
12 7	1 56.52	+15 45.3	2.149	2.950	13.1	21.3

407559 2010 XA_{65} 10 30.9 281°.69 8°.6/22.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 43.26	−12 28.5	2.296	3.141	11.5	20.7
10 8	2 38.09	−13 37.0	2.234	3.125	9.8	20.6
10 18	2 31.29	−14 34.4	2.196	3.109	8.7	20.5
10 28	2 23.50	−15 14.0	2.183	3.093	8.8	20.4
11 7	2 15.50	−15 31.1	2.197	3.076	10.1	20.5
11 17	2 8.10	−15 23.4	2.234	3.060	11.9	20.6
11 27	2 2.04	−14 51.3	2.294	3.044	14.0	20.7
12 7	1 57.83	−13 57.3	2.373	3.027	15.8	20.8

383189 2005 XT_{57} 10 30.9 54°.12 3°.4/28.9 18

9 28	2 48.22	+ 8 1.5	1.308	2.188	16.3	20.0
10 8	2 42.28	+ 7 24.3	1.268	2.206	11.8	19.7
10 18	2 33.86	+ 6 43.9	1.250	2.226	6.9	19.5
10 28	2 24.07	+ 6 6.5	1.257	2.245	3.5	19.4
11 7	2 14.32	+ 5 38.6	1.289	2.265	5.9	19.6
11 17	2 5.91	+ 5 25.0	1.348	2.285	10.3	19.9
11 27	1 59.86	+ 5 28.5	1.430	2.305	14.4	20.2
12 7	1 56.66	+ 5 49.2	1.531	2.325	17.8	20.5

329100 2011 BY_{119} 10 30.9 234°.75 0°.0/30.7 17

9 28	2 42.87	+15 48.2	2.516	3.361	10.6	22.2
10 8	2 37.73	+15 23.4	2.433	3.354	7.8	22.0
10 18	2 31.07	+14 50.7	2.376	3.347	4.5	21.8
10 28	2 23.46	+14 12.5	2.347	3.339	1.0	21.5
11 7	2 15.65	+13 32.1	2.348	3.331	2.5	21.6
11 17	2 8.38	+12 53.5	2.379	3.323	6.0	21.9
11 27	2 2.35	+12 20.6	2.438	3.315	9.1	22.0
12 7	1 58.05	+11 56.7	2.521	3.307	11.8	22.2

161513 2004 RK_{195} 10 30.9 82°.93 3°.5/ 2.1 17

9 28	2 54.01	+23 56.7	1.290	2.131	18.9	19.9
10 8	2 46.68	+23 52.4	1.247	2.159	14.3	19.7
10 18	2 36.46	+23 26.3	1.225	2.185	9.3	19.5
10 28	2 24.66	+22 39.8	1.227	2.212	4.6	19.3
11 7	2 12.98	+21 39.2	1.255	2.238	4.5	19.3
11 17	2 2.95	+20 33.3	1.310	2.263	8.8	19.7
11 27	1 55.74	+19 32.0	1.390	2.288	13.2	20.0
12 7	1 51.83	+18 42.8	1.491	2.312	16.9	20.3

320355 2007 TT_{211} 10 30.9 21°.03 1°.8/ 1.3 18

9 28	2 43.62	+21 22.3	1.478	2.335	16.1	20.2
10 8	2 39.09	+20 52.9	1.417	2.339	12.1	19.9
10 18	2 32.13	+20 5.4	1.376	2.344	7.5	19.7
10 28	2 23.71	+19 2.7	1.361	2.350	2.9	19.4
11 7	2 15.11	+17 51.3	1.371	2.356	3.5	19.5
11 17	2 7.57	+16 39.4	1.409	2.363	8.1	19.8
11 27	2 2.14	+15 35.4	1.471	2.371	12.5	20.1
12 7	1 59.41	+14 45.6	1.555	2.379	16.1	20.3

71333 2000 AW_{91} 10 30.9 175°.81 2°.2/ 2.4 18

9 28	2 43.42	+24 15.2	2.958	3.767	10.1	19.5
10 8	2 37.95	+24 3.9	2.876	3.769	7.8	19.3
10 18	2 31.12	+23 41.5	2.819	3.771	5.2	19.2
10 28	2 23.47	+23 8.7	2.791	3.772	2.8	19.0
11 7	2 15.68	+22 28.0	2.793	3.773	2.6	19.0
11 17	2 8.41	+21 42.8	2.826	3.773	5.0	19.2
11 27	2 2.29	+20 57.1	2.887	3.773	7.6	19.3
12 7	1 57.76	+20 15.0	2.975	3.773	9.9	19.5

515324 2012 XZ_{144} 10 30.9 205°.49 5°.4/25.9 18

9 28	2 45.37	− 2 28.9	2.425	3.281	10.6	22.4
10 8	2 39.48	− 3 21.4	2.358	3.276	8.2	22.2
10 18	2 32.05	− 4 9.6	2.317	3.270	6.1	22.1
10 28	2 23.69	− 4 48.5	2.305	3.264	5.5	22.0
11 7	2 15.18	− 5 13.6	2.322	3.257	6.8	22.1
11 17	2 7.28	− 5 22.3	2.366	3.249	9.2	22.2
11 27	2 0.67	− 5 13.3	2.436	3.241	11.7	22.4
12 7	1 55.85	− 4 47.5	2.527	3.232	13.8	22.6

307512 2003 AD_{13} 10 30.9 332°.87 1°.8/29.6 18

9 28	2 38.88	+13 58.4	1.310	2.197	15.8	19.5
10 8	2 36.08	+12 59.4	1.228	2.171	11.6	19.1
10 18	2 30.66	+11 44.8	1.167	2.146	6.7	18.8
10 28	2 23.45	+10 20.6	1.130	2.122	2.0	18.4
11 7	2 15.69	+ 8 56.1	1.118	2.099	5.1	18.6
11 17	2 8.73	+ 7 41.6	1.130	2.078	10.6	18.8
11 27	2 3.86	+ 6 46.1	1.165	2.058	15.6	19.1
12 7	2 1.87	+ 6 14.6	1.219	2.040	19.9	19.3

490507 2009 UB_{69} 10 30.9 357°.18 3°.5/27.9 17

9 28	2 40.46	+ 8 5.9	1.730	2.609	13.0	20.7
10 8	2 36.42	+ 6 54.9	1.668	2.607	9.4	20.5
10 18	2 30.46	+ 5 38.9	1.630	2.605	5.7	20.3
10 28	2 23.35	+ 4 24.6	1.618	2.603	3.5	20.2
11 7	2 16.06	+ 3 19.2	1.634	2.603	5.8	20.3
11 17	2 9.56	+ 2 28.9	1.676	2.603	9.5	20.5
11 27	2 4.70	+ 1 57.9	1.743	2.603	13.0	20.7
12 7	2 2.02	+ 1 47.3	1.830	2.605	16.0	21.0

13936 1989 HC 10 30.9 5°.63 7°.9/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 45.96	−12 2.2	2.346	3.186	11.5	17.2
10 8	2 39.88	−12 40.5	2.294	3.186	9.6	17.0
10 18	2 32.25	−13 6.7	2.267	3.186	8.2	17.0
10 28	2 23.74	−13 15.7	2.266	3.186	8.0	17.0
11 7	2 15.15	−13 4.2	2.292	3.186	9.1	17.0
11 17	2 7.28	−12 31.3	2.344	3.186	10.9	17.1
11 27	2 0.82	−11 38.2	2.420	3.186	12.9	17.3
12 7	1 56.21	−10 27.8	2.516	3.186	14.6	17.4

96168 1981 ER_{23} 10 30.9 308°.48 1°.0/30.3 18

9 28	2 45.30	+13 30.1	1.576	2.444	14.6	19.7
10 8	2 40.30	+13 4.1	1.501	2.434	10.7	19.5
10 18	2 32.90	+12 28.5	1.449	2.424	6.2	19.2
10 28	2 23.94	+11 47.1	1.422	2.414	1.5	18.9
11 7	2 14.61	+11 5.4	1.422	2.404	4.0	19.0
11 17	2 6.12	+10 29.6	1.449	2.395	8.9	19.3
11 27	1 59.59	+10 5.3	1.501	2.386	13.2	19.5
12 7	1 55.71	+ 9 56.0	1.574	2.377	16.9	19.8

453430 2009 PU 10 30.9 22°.57 4°.2/ 2.2 17

9 28	2 47.45	+22 24.2	1.339	2.192	17.6	19.3
10 8	2 42.04	+23 12.8	1.295	2.211	13.5	19.1
10 18	2 33.89	+23 44.2	1.271	2.232	9.0	18.9
10 28	2 24.14	+23 57.3	1.271	2.254	5.0	18.7
11 7	2 14.26	+23 54.4	1.296	2.277	4.8	18.8
11 17	2 5.70	+23 40.5	1.348	2.301	8.5	19.0
11 27	1 59.59	+23 22.7	1.423	2.327	12.5	19.3
12 7	1 56.54	+23 7.9	1.519	2.353	15.9	19.6

487146 2014 OS_{217} 10 30.9 26°.12 3°.3/28.9 17

9 28	2 45.26	+ 6 10.4	1.613	2.488	14.0	20.2
10 8	2 39.90	+ 5 53.9	1.563	2.500	10.1	20.0
10 18	2 32.44	+ 5 36.7	1.537	2.512	6.1	19.8
10 28	2 23.80	+ 5 23.5	1.537	2.524	3.3	19.7
11 7	2 15.07	+ 5 18.3	1.564	2.538	5.3	19.8
11 17	2 7.34	+ 5 24.4	1.618	2.552	9.2	20.1
11 27	2 1.50	+ 5 43.7	1.696	2.567	12.8	20.3
12 7	1 58.08	+ 6 16.2	1.796	2.582	15.8	20.6

421652 2014 OQ_{343} 10 30.9 36°.86 8°.9/23.3 18

9 28	2 43.01	−10 15.8	1.949	2.807	12.7	20.1
10 8	2 37.98	−11 32.7	1.909	2.813	10.5	20.0
10 18	2 31.23	−12 37.1	1.893	2.819	9.1	19.9
10 28	2 23.51	−13 22.0	1.902	2.825	9.1	20.0
11 7	2 15.75	−13 42.3	1.936	2.831	10.4	20.1
11 17	2 8.80	−13 36.3	1.994	2.838	12.4	20.2
11 27	2 3.41	−13 4.9	2.074	2.845	14.6	20.4
12 7	2 0.05	−12 11.6	2.173	2.852	16.5	20.5

427556 2002 UF_{25} 10 30.9 40°.89 4°.3/ 2.2 18

9 28	2 50.00	+23 15.2	1.226	2.079	19.0	20.1
10 8	2 44.22	+23 45.4	1.174	2.090	14.6	19.9
10 18	2 35.31	+23 55.7	1.141	2.102	9.7	19.6
10 28	2 24.49	+23 45.2	1.132	2.115	5.2	19.4
11 7	2 13.43	+23 17.2	1.147	2.128	5.1	19.5
11 17	2 3.80	+22 38.6	1.187	2.142	9.3	19.7
11 27	1 56.94	+21 59.0	1.251	2.156	13.8	20.0
12 7	1 53.51	+21 26.2	1.336	2.171	17.7	20.3

262323 2006 TO_{27} 10 30.9 36°.41 0°.1/30.9 18

9 28	2 46.38	+14 30.8	1.699	2.560	14.1	20.3
10 8	2 40.79	+14 25.5	1.638	2.566	10.3	20.1
10 18	2 33.03	+14 11.8	1.599	2.573	6.0	19.8
10 28	2 23.95	+13 52.2	1.587	2.580	1.4	19.5
11 7	2 14.69	+13 30.6	1.603	2.587	3.3	19.7
11 17	2 6.36	+13 11.6	1.647	2.595	7.8	20.0
11 27	1 59.93	+12 59.7	1.716	2.603	11.7	20.3
12 7	1 55.96	+12 58.0	1.807	2.611	15.1	20.5

243064 2007 FT_{44} 10 30.9 29°.76 0°.4/31.2 18

9 28	2 45.95	+15 27.3	2.012	2.864	12.6	19.8
10 8	2 40.25	+15 32.6	1.944	2.867	9.3	19.5
10 18	2 32.64	+15 30.2	1.900	2.871	5.5	19.3
10 28	2 23.87	+15 21.8	1.884	2.876	1.4	19.1
11 7	2 14.88	+15 10.0	1.896	2.880	2.9	19.2
11 17	2 6.66	+14 58.4	1.937	2.885	6.8	19.4
11 27	2 0.05	+14 50.8	2.005	2.890	10.4	19.7
12 7	1 55.61	+14 50.4	2.096	2.895	13.4	19.9

103596 2000 CK_{12} 10 30.9 23°.69 9°.4/23.6 18

9 28	2 42.92	− 6 6.9	1.527	2.405	14.5	18.6
10 8	2 38.30	− 7 48.7	1.487	2.409	11.7	18.5
10 18	2 31.56	− 9 19.9	1.469	2.414	9.7	18.4
10 28	2 23.61	−10 30.5	1.476	2.419	9.6	18.4
11 7	2 15.58	−11 13.3	1.508	2.424	11.3	18.5
11 17	2 8.54	−11 24.7	1.563	2.430	14.0	18.7
11 27	2 3.40	−11 5.5	1.638	2.437	16.7	18.9
12 7	2 0.66	−10 19.6	1.730	2.444	19.0	19.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
367852 2011 CQ_{23}			10 30.9 322.°95		4.°2/ 3.6 17	
	h m	° ′			°	m
9 28	2 44.13	+28 8.3	2.159	2.967	13.4	20.6
10 8	2 39.06	+28 15.5	2.075	2.962	10.7	20.4
10 18	2 32.03	+28 5.9	2.015	2.956	7.7	20.2
10 28	2 23.74	+27 39.2	1.980	2.951	5.0	20.1
11 7	2 15.16	+26 57.6	1.973	2.946	4.4	20.0
11 17	2 7.26	+26 5.3	1.994	2.941	6.7	20.1
11 27	2 0.96	+25 8.9	2.042	2.937	9.8	20.3
12 7	1 56.86	+24 14.6	2.115	2.932	12.7	20.5
171633 2000 DQ_{108}			10 30.9 296.°53		1.°4/31.9 18	
9 28	2 45.96	+19 1.5	1.780	2.628	14.2	20.2
10 8	2 40.61	+18 55.0	1.702	2.622	10.6	19.9
10 18	2 33.01	+18 35.8	1.648	2.616	6.5	19.7
10 28	2 23.98	+18 5.5	1.619	2.610	2.3	19.4
11 7	2 14.61	+17 28.0	1.619	2.604	3.2	19.4
11 17	2 6.03	+16 48.4	1.646	2.598	7.5	19.7
11 27	1 59.29	+16 13.0	1.700	2.592	11.5	19.9
12 7	1 55.03	+15 46.7	1.776	2.586	15.0	20.1
21683 Segal			10 30.9 327.°61		4.°6/ 2.4 18	
9 28	2 47.07	+24 2.2	1.228	2.082	18.8	17.7
10 8	2 42.45	+24 27.4	1.154	2.072	14.7	17.4
10 18	2 34.56	+24 31.9	1.100	2.061	10.0	17.1
10 28	2 24.39	+24 14.1	1.069	2.052	5.6	16.9
11 7	2 13.56	+23 36.4	1.061	2.043	5.4	16.8
11 17	2 3.84	+22 46.0	1.078	2.034	9.8	17.0
11 27	1 56.79	+21 53.3	1.118	2.027	14.7	17.3
12 7	1 53.31	+21 7.9	1.178	2.020	19.1	17.6
192345 1995 SG_{24}			10 30.9 278.°02		0.°3/30.4 18	
9 28	2 36.13	+13 16.3	4.454	5.299	6.4	20.7
10 8	2 32.32	+12 58.5	4.375	5.297	4.6	20.5
10 18	2 27.75	+12 37.6	4.324	5.296	2.6	20.4
10 28	2 22.73	+12 14.9	4.302	5.294	0.6	20.2
11 7	2 17.63	+11 52.1	4.311	5.293	1.6	20.3
11 17	2 12.80	+11 31.1	4.351	5.291	3.7	20.5
11 27	2 8.61	+11 13.7	4.421	5.290	5.5	20.6
12 7	2 5.31	+11 1.3	4.516	5.288	7.2	20.7
249477 2009 OJ_{1}			10 30.9 10.°84		0.°0/30.7 18	
9 28	2 43.03	+16 22.6	1.840	2.699	13.3	20.6
10 8	2 38.26	+15 50.0	1.772	2.700	9.8	20.3
10 18	2 31.54	+15 6.5	1.728	2.701	5.7	20.1
10 28	2 23.63	+14 15.6	1.710	2.702	1.3	19.8
11 7	2 15.53	+13 22.4	1.721	2.704	3.1	20.0
11 17	2 8.23	+12 32.7	1.759	2.707	7.4	20.2
11 27	2 2.61	+11 52.1	1.823	2.709	11.2	20.5
12 7	1 59.22	+11 24.3	1.910	2.712	14.4	20.7
258710 2002 GZ_{69}			10 30.9 223.°24		3.°0/28.9 18	
9 28	2 47.68	+ 9 50.4	1.534	2.405	14.8	20.9
10 8	2 41.99	+ 8 54.2	1.465	2.400	10.8	20.6
10 18	2 33.86	+ 7 50.5	1.419	2.394	6.4	20.3
10 28	2 24.18	+ 6 45.5	1.399	2.388	3.0	20.1
11 7	2 14.20	+ 5 46.7	1.407	2.381	5.6	20.3
11 17	2 5.18	+ 5 1.2	1.441	2.375	10.1	20.5
11 27	1 58.21	+ 4 34.0	1.500	2.367	14.3	20.8
12 7	1 53.96	+ 4 27.2	1.579	2.360	17.9	21.0
519696 2013 AV_{186}			10 30.9 248.°02		1.°9/29.6 18	
9 28	2 45.34	+10 41.7	1.871	2.736	12.9	21.5
10 8	2 39.91	+10 9.7	1.802	2.733	9.3	21.3
10 18	2 32.49	+ 9 31.9	1.756	2.731	5.4	21.0
10 28	2 23.85	+ 8 52.5	1.737	2.728	2.0	20.8
11 7	2 14.99	+ 8 16.3	1.747	2.725	4.2	21.0
11 17	2 6.90	+ 7 48.1	1.785	2.723	8.2	21.2
11 27	2 0.49	+ 7 31.8	1.849	2.720	11.9	21.4
12 7	1 56.32	+ 7 29.6	1.934	2.717	15.0	21.6
354669 2005 NL_{6}			10 30.9 96.°17		4.°2/27.6 18	
9 28	2 44.12	+ 4 16.8	1.936	2.806	12.2	20.8
10 8	2 38.86	+ 3 23.1	1.877	2.809	9.0	20.6
10 18	2 31.80	+ 2 29.1	1.843	2.812	5.8	20.4
10 28	2 23.68	+ 1 40.3	1.836	2.815	4.2	20.3
11 7	2 15.44	+ 1 2.4	1.857	2.819	6.0	20.5
11 17	2 7.98	+ 0 39.3	1.906	2.822	9.2	20.7
11 27	2 2.09	+ 0 33.4	1.979	2.825	12.3	20.9
12 7	1 58.29	+ 0 45.0	2.074	2.828	15.0	21.1
116873 2004 FP_{108}			10 30.9 234.°43		0.°4/30.6 18	
9 28	2 44.57	+14 56.7	2.160	3.012	11.9	20.6
10 8	2 39.20	+14 25.9	2.080	3.004	8.7	20.4
10 18	2 32.04	+13 46.4	2.024	2.996	5.0	20.1
10 28	2 23.76	+13 1.1	1.995	2.988	1.1	19.8
11 7	2 15.22	+12 14.3	1.997	2.979	3.0	20.0
11 17	2 7.34	+11 30.9	2.027	2.971	6.9	20.2
11 27	2 0.91	+10 55.4	2.085	2.961	10.5	20.4
12 7	1 56.50	+10 31.4	2.166	2.952	13.5	20.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
313181 2001 OD_{74}			10 30.9 32.°66		10.°0/ 5.6 18	
	h m	° ′			°	m
9 28	2 50.08	+31 44.5	0.768	1.629	26.5	19.5
10 8	2 45.29	+32 52.2	0.744	1.654	21.5	19.3
10 18	2 36.19	+33 19.2	0.734	1.680	16.1	19.1
10 28	2 24.69	+33 1.3	0.741	1.709	11.6	19.0
11 7	2 13.35	+32 4.1	0.769	1.739	10.0	19.1
11 17	2 4.47	+30 41.7	0.816	1.770	12.4	19.3
11 27	1 59.54	+29 12.2	0.883	1.803	16.3	19.7
12 7	1 58.96	+27 50.6	0.968	1.836	20.2	20.1
26882 1994 PY_{21}			10 30.9 123.°70		1.°9/29.6 17	
9 28	2 48.22	+11 29.0	1.674	2.538	14.2	19.3
10 8	2 42.03	+10 44.3	1.618	2.549	10.2	19.1
10 18	2 33.69	+ 9 52.4	1.585	2.560	5.9	18.9
10 28	2 24.12	+ 8 58.5	1.580	2.571	2.1	18.7
11 7	2 14.46	+ 8 8.7	1.603	2.581	4.5	18.9
11 17	2 5.83	+ 7 28.6	1.654	2.591	8.7	19.2
11 27	1 59.16	+ 7 2.9	1.730	2.600	12.6	19.4
12 7	1 54.97	+ 6 53.5	1.827	2.609	15.8	19.7
46743 1997 WE_{36}			10 30.9 358.°93		0.°7/30.4 18	
9 28	2 43.62	+12 57.8	2.016	2.876	12.3	18.2
10 8	2 38.57	+12 47.0	1.946	2.875	8.9	17.9
10 18	2 31.68	+12 30.0	1.900	2.874	5.1	17.7
10 28	2 23.68	+12 9.4	1.881	2.873	1.2	17.4
11 7	2 15.46	+11 48.7	1.891	2.873	3.2	17.6
11 17	2 7.94	+11 31.7	1.929	2.874	7.1	17.8
11 27	2 1.95	+11 22.1	1.994	2.874	10.7	18.1
12 7	1 58.04	+11 22.5	2.081	2.876	13.7	18.3
473014 2015 HQ_{42}			10 30.9 125.°29		1.°2/30.1 18	
9 28	2 48.76	+12 24.9	1.832	2.689	13.5	21.3
10 8	2 42.28	+11 55.7	1.774	2.702	9.7	21.1
10 18	2 33.79	+11 19.4	1.741	2.715	5.6	20.9
10 28	2 24.15	+10 40.1	1.735	2.727	1.5	20.7
11 7	2 14.43	+10 2.4	1.758	2.739	3.8	20.9
11 17	2 5.66	+ 9 31.3	1.810	2.750	7.9	21.1
11 27	1 58.73	+ 9 10.9	1.888	2.761	11.6	21.4
12 7	1 54.16	+ 9 3.6	1.989	2.771	14.7	21.6
21802 Svoreň			10 30.9 315.°14		2.°7/28.8 18	
9 28	2 43.77	+10 41.5	1.689	2.561	13.6	18.6
10 8	2 38.90	+ 9 32.9	1.624	2.560	9.9	18.3
10 18	2 31.95	+ 8 16.5	1.582	2.558	5.7	18.1
10 28	2 23.75	+ 6 58.4	1.568	2.557	2.7	17.9
11 7	2 15.35	+ 5 46.4	1.581	2.555	5.1	18.1
11 17	2 7.82	+ 4 47.2	1.621	2.554	9.2	18.3
11 27	2 2.06	+ 4 6.1	1.687	2.553	13.1	18.5
12 7	1 58.67	+ 3 45.2	1.773	2.552	16.3	18.8
80798 2000 CP_{89}			10 30.9 108.°54		4.°5/27.8 18	
9 28	2 47.82	+ 4 59.3	1.617	2.489	14.1	18.8
10 8	2 41.73	+ 4 0.3	1.569	2.502	10.3	18.6
10 18	2 33.50	+ 3 0.5	1.544	2.514	6.5	18.4
10 28	2 24.08	+ 2 6.9	1.545	2.527	4.5	18.4
11 7	2 14.63	+ 1 25.9	1.575	2.539	6.6	18.5
11 17	2 6.23	+ 1 2.0	1.631	2.550	10.2	18.8
11 27	1 59.79	+ 0 57.8	1.711	2.561	13.7	19.0
12 7	1 55.84	+ 1 12.7	1.811	2.572	16.7	19.2
385344 2002 NT_{66}			10 30.9 81.°65		2.°5/29.2 18	
9 28	2 46.52	+ 9 11.1	1.739	2.606	13.5	20.6
10 8	2 40.71	+ 8 33.7	1.687	2.620	9.8	20.4
10 18	2 32.89	+ 7 52.2	1.658	2.633	5.7	20.2
10 28	2 23.95	+ 7 11.4	1.657	2.646	2.6	20.0
11 7	2 14.94	+ 6 36.5	1.684	2.659	4.7	20.2
11 17	2 6.90	+ 6 12.2	1.738	2.672	8.6	20.4
11 27	2 0.68	+ 6 1.7	1.818	2.685	12.2	20.7
12 7	1 56.81	+ 6 6.2	1.919	2.698	15.2	20.9
523309 2017 BH_{111}			10 30.9 137.°18		2.°0/28.7 18	
9 28	2 41.18	+10 37.9	2.524	3.383	10.1	21.5
10 8	2 36.39	+ 9 32.2	2.458	3.388	7.3	21.3
10 18	2 30.26	+ 8 21.3	2.419	3.393	4.2	21.1
10 28	2 23.34	+ 7 9.7	2.409	3.398	2.0	21.0
11 7	2 16.34	+ 6 2.3	2.429	3.402	3.8	21.1
11 17	2 9.93	+ 5 3.8	2.479	3.407	6.8	21.3
11 27	2 4.71	+ 4 17.7	2.557	3.411	9.6	21.5
12 7	2 1.11	+ 3 46.1	2.657	3.415	12.0	21.7
473690 2015 XG_{381}			10 30.9 61.°54		8.°6/21.6 18	
9 28	2 41.32	−11 12.2	2.230	3.083	11.5	20.7
10 8	2 36.63	−12 48.9	2.190	3.087	9.7	20.6
10 18	2 30.44	−14 14.3	2.175	3.090	8.7	20.5
10 28	2 23.38	−15 21.1	2.186	3.094	8.9	20.6
11 7	2 16.25	−16 4.4	2.222	3.098	10.1	20.6
11 17	2 9.79	−16 21.8	2.283	3.102	11.9	20.8
11 27	2 4.68	−16 13.6	2.365	3.106	13.8	20.9
12 7	2 1.36	−15 42.6	2.465	3.110	15.4	21.1

513907 2013 YU_{63} 10 30.9 296°.02 4°.0/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 47.01	+ 6 8.6	1.485	2.361	14.9	21.1
10 8	2 41.69	+ 5 32.9	1.410	2.346	11.0	20.8
10 18	2 33.80	+ 4 54.7	1.358	2.332	6.8	20.5
10 28	2 24.22	+ 4 19.8	1.331	2.317	4.0	20.3
11 7	2 14.18	+ 3 54.6	1.331	2.302	6.4	20.4
11 17	2 5.00	+ 3 44.4	1.356	2.288	10.8	20.6
11 27	1 57.87	+ 3 52.7	1.405	2.273	15.1	20.9
12 7	1 53.54	+ 4 20.1	1.474	2.259	18.8	21.1

104255 2000 EJ_{140} 10 30.9 151°.22 9°.4/19.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.03	−14 30.9	2.323	3.160	11.7	19.7
10 8	2 38.54	−16 31.6	2.291	3.169	10.2	19.7
10 18	2 31.52	−18 18.6	2.284	3.176	9.4	19.6
10 28	2 23.63	−19 44.1	2.304	3.183	9.8	19.7
11 7	2 15.68	−20 43.0	2.349	3.190	11.0	19.8
11 17	2 8.44	−21 13.2	2.418	3.196	12.6	19.9
11 27	2 2.58	−21 15.4	2.507	3.201	14.2	20.0
12 7	1 58.55	−20 52.9	2.613	3.206	15.6	20.2

114483 2003 AJ_{52} 10 30.9 345°.77 1°.1/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.17	+12 45.1	1.100	1.990	17.9	19.0
10 8	2 40.27	+12 37.6	1.036	1.980	13.2	18.7
10 18	2 33.24	+12 20.2	0.992	1.971	7.7	18.4
10 28	2 24.12	+11 57.1	0.970	1.962	1.9	18.0
11 7	2 14.48	+11 34.3	0.972	1.956	4.9	18.2
11 17	2 5.98	+11 18.4	0.997	1.950	10.8	18.5
11 27	2 0.08	+11 15.7	1.043	1.946	16.1	18.8
12 7	1 57.59	+11 29.5	1.108	1.944	20.5	19.1

79415 1997 JY_{15} 10 30.9 187°.42 1°.7/29.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.18	+11 31.0	1.865	2.724	13.2	20.3
10 8	2 41.98	+10 52.1	1.795	2.723	9.6	20.1
10 18	2 33.70	+10 6.1	1.749	2.723	5.5	19.8
10 28	2 24.17	+ 9 17.3	1.730	2.721	1.9	19.6
11 7	2 14.42	+ 8 31.2	1.741	2.719	4.2	19.8
11 17	2 5.50	+ 7 53.0	1.780	2.717	8.3	20.0
11 27	1 58.34	+ 7 27.2	1.846	2.714	12.0	20.2
12 7	1 53.53	+ 7 16.2	1.933	2.710	15.2	20.4

78847 2003 QS_{56} 10 30.9 199°.55 4°.5/26.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.07	+ 1 15.8	2.424	3.289	10.3	19.5
10 8	2 37.11	+ 0 16.5	2.360	3.287	7.7	19.3
10 18	2 30.71	− 0 41.1	2.323	3.286	5.3	19.2
10 28	2 23.47	− 1 32.2	2.314	3.284	4.5	19.1
11 7	2 16.09	− 2 12.2	2.334	3.282	6.0	19.2
11 17	2 9.31	− 2 37.6	2.382	3.280	8.5	19.3
11 27	2 3.75	− 2 46.5	2.455	3.278	11.0	19.5
12 7	1 59.87	− 2 39.0	2.550	3.275	13.2	19.7

309173 2007 BQ_{60} 10 30.9 10°.53 4°.5/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.00	+26 34.3	1.899	2.717	14.6	20.1
10 8	2 41.38	+27 1.8	1.825	2.718	11.6	19.9
10 18	2 33.49	+27 13.0	1.773	2.719	8.2	19.7
10 28	2 24.16	+27 6.7	1.747	2.720	5.2	19.5
11 7	2 14.48	+26 44.4	1.748	2.722	4.8	19.5
11 17	2 5.63	+26 10.4	1.776	2.724	7.4	19.7
11 27	1 58.64	+25 31.1	1.831	2.726	10.7	19.9
12 7	1 54.16	+24 53.3	1.910	2.729	13.8	20.1

265230 2004 DZ_{11} 10 30.9 162°.39 7°.8/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 53.22	+33 43.4	1.688	2.473	17.5	20.5
10 8	2 46.44	+34 33.7	1.615	2.476	14.6	20.3
10 18	2 36.67	+35 0.6	1.561	2.478	11.4	20.1
10 28	2 24.92	+34 59.9	1.531	2.480	8.7	20.0
11 7	2 12.67	+34 31.4	1.527	2.482	7.9	20.0
11 17	2 1.50	+33 39.8	1.550	2.483	9.5	20.1
11 27	1 52.78	+32 34.5	1.598	2.485	12.5	20.2
12 7	1 47.31	+31 26.0	1.668	2.485	15.5	20.4

476616 2008 ST_{142} 10 30.9 37°.45 1°.5/30.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.64	+13 41.3	1.140	2.025	17.8	20.5
10 8	2 40.68	+12 55.2	1.106	2.047	12.8	20.3
10 18	2 33.06	+11 58.2	1.093	2.071	7.3	20.1
10 28	2 24.01	+10 57.4	1.103	2.095	1.9	19.9
11 7	2 15.06	+10 1.1	1.138	2.120	4.8	20.1
11 17	2 7.60	+ 9 17.0	1.198	2.146	10.0	20.5
11 27	2 2.64	+ 8 50.6	1.280	2.173	14.5	20.8
12 7	2 0.64	+ 8 43.5	1.382	2.200	18.1	21.2

53815 2000 EQ_{137} 10 30.9 206°.20 3°.4/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.05	+ 7 4.8	1.937	2.801	12.5	18.9
10 8	2 41.10	+ 6 8.6	1.866	2.796	9.2	18.7
10 18	2 33.19	+ 5 8.7	1.819	2.791	5.6	18.5
10 28	2 24.08	+ 4 10.6	1.800	2.785	3.4	18.3
11 7	2 14.73	+ 3 20.2	1.810	2.778	5.5	18.5
11 17	2 6.14	+ 2 42.8	1.848	2.770	9.0	18.7
11 27	1 59.20	+ 2 21.8	1.912	2.762	12.5	18.9
12 7	1 54.47	+ 2 18.7	1.998	2.754	15.5	19.1

325503 2009 RO_{43} 10 30.9 8°.86 3°.5/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 44.92	+24 9.4	1.821	2.654	14.6	20.4
10 8	2 39.86	+24 25.2	1.751	2.656	11.3	20.2
10 18	2 32.60	+24 25.4	1.702	2.658	7.6	20.0
10 28	2 23.96	+24 10.2	1.679	2.660	4.3	19.8
11 7	2 15.03	+23 41.9	1.684	2.663	4.0	19.8
11 17	2 6.94	+23 5.2	1.715	2.667	7.2	20.0
11 27	2 0.68	+22 26.6	1.773	2.671	10.8	20.3
12 7	1 56.88	+21 52.1	1.854	2.676	14.0	20.5

19269 1995 UQ_{11} 10 30.9 123°.54 4°.4/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 52.34	+25 27.6	1.862	2.677	15.0	18.2
10 8	2 45.29	+26 8.7	1.792	2.684	11.8	18.0
10 18	2 35.78	+26 34.3	1.745	2.691	8.2	17.8
10 28	2 24.70	+26 42.6	1.724	2.698	5.1	17.7
11 7	2 13.28	+26 34.4	1.731	2.705	4.8	17.7
11 17	2 2.79	+26 13.6	1.766	2.711	7.6	17.8
11 27	1 54.34	+25 46.5	1.829	2.717	11.0	18.1
12 7	1 48.62	+25 19.7	1.914	2.723	14.1	18.3

256752 2008 BG_{32} 10 30.9 257°.32 0°.8/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.85	+13 52.9	1.520	2.383	15.3	20.9
10 8	2 43.07	+13 31.1	1.441	2.372	11.3	20.7
10 18	2 34.65	+12 59.1	1.386	2.360	6.6	20.4
10 28	2 24.47	+12 20.1	1.355	2.348	1.5	20.0
11 7	2 13.80	+11 39.8	1.353	2.335	4.1	20.2
11 17	2 4.03	+11 4.3	1.377	2.323	9.2	20.4
11 27	1 56.38	+10 39.9	1.426	2.310	13.9	20.7
12 7	1 51.62	+10 30.5	1.495	2.297	17.8	20.9

13694 1997 WW_{7} 10 30.9 346°.55 0°.7/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 36.51	+19 19.2	4.080	4.910	7.2	17.9
10 8	2 32.71	+19 0.5	3.998	4.908	5.3	17.8
10 18	2 28.05	+18 35.7	3.942	4.906	3.3	17.7
10 28	2 22.88	+18 6.1	3.916	4.905	1.2	17.5
11 7	2 17.62	+17 33.6	3.920	4.904	1.5	17.5
11 17	2 12.67	+17 0.4	3.954	4.902	3.7	17.7
11 27	2 8.43	+16 28.9	4.019	4.901	5.7	17.8
12 7	2 5.21	+16 1.3	4.109	4.900	7.5	18.0

324015 2005 UW_{330} 10 30.9 328°.86 0°.7/30.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.08	+14 6.4	1.895	2.757	12.8	21.0
10 8	2 38.33	+13 34.1	1.822	2.751	9.4	20.8
10 18	2 31.64	+12 52.9	1.772	2.746	5.4	20.6
10 28	2 23.74	+12 6.5	1.749	2.741	1.3	20.3
11 7	2 15.59	+11 19.8	1.754	2.736	3.4	20.4
11 17	2 8.18	+10 38.1	1.787	2.731	7.6	20.7
11 27	2 2.36	+10 6.3	1.846	2.727	11.4	20.9
12 7	1 58.73	+ 9 47.8	1.927	2.723	14.6	21.1

132594 2002 JH_{134} 10 30.9 96°.38 0°.1/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.88	+18 33.5	1.825	2.673	13.9	20.6
10 8	2 40.20	+17 33.4	1.769	2.691	10.1	20.4
10 18	2 32.59	+16 19.8	1.737	2.708	5.9	20.2
10 28	2 23.92	+14 57.4	1.733	2.725	1.4	20.0
11 7	2 15.25	+13 33.1	1.758	2.742	3.1	20.1
11 17	2 7.57	+12 14.1	1.812	2.758	7.3	20.4
11 27	2 1.69	+11 7.0	1.892	2.774	11.1	20.7
12 7	1 58.08	+10 15.8	1.996	2.790	14.2	20.9

385746 2005 XH_{19} 10 30.9 256°.11 0°.6/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.77	+14 11.5	1.801	2.657	13.7	21.7
10 8	2 41.98	+13 50.0	1.715	2.642	10.1	21.4
10 18	2 33.90	+13 19.2	1.653	2.626	5.9	21.2
10 28	2 24.29	+12 41.9	1.617	2.610	1.3	20.8
11 7	2 14.24	+12 2.9	1.610	2.593	3.6	20.9
11 17	2 4.91	+11 27.4	1.632	2.576	8.2	21.2
11 27	1 57.36	+11 0.8	1.679	2.559	12.4	21.4
12 7	1 52.30	+10 47.1	1.749	2.541	15.9	21.6

228976 2003 UK_{266} 10 30.9 112°.43 0°.0/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.61	+14 27.3	2.408	3.254	11.0	19.9
10 8	2 39.75	+14 27.2	2.338	3.259	8.0	19.7
10 18	2 32.29	+14 21.0	2.294	3.265	4.7	19.5
10 28	2 23.88	+14 10.3	2.278	3.270	1.1	19.2
11 7	2 15.30	+13 57.8	2.292	3.276	2.6	19.4
11 17	2 7.36	+13 46.3	2.336	3.281	6.0	19.6
11 27	2 0.77	+13 39.0	2.408	3.286	9.2	19.8
12 7	1 56.03	+13 38.4	2.504	3.291	11.8	20.0

419446 2010 CZ_{100} 10 30.9 334°.98 5°.6/25.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 40.86	− 2 7.2	2.302	3.169	10.7	21.0
10 8	2 36.32	− 3 11.0	2.242	3.165	8.2	20.8
10 18	2 30.31	− 4 10.8	2.207	3.162	6.2	20.7
10 28	2 23.42	− 5 0.7	2.200	3.158	5.7	20.7
11 7	2 16.39	− 5 36.2	2.221	3.155	7.1	20.8
11 17	2 9.96	− 5 54.0	2.268	3.152	9.5	20.9
11 27	2 4.78	− 5 52.7	2.339	3.149	11.9	21.1
12 7	2 1.33	− 5 33.2	2.432	3.147	14.1	21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
483465 2002 GQ_{38}			10 30.9 211°.98		1°.6/ 1.2 17	
	h m	° ′			°	m
9 28	2 46.52	+19 31.1	2.416	3.247	11.5	21.6
10 8	2 40.55	+19 38.9	2.334	3.243	8.6	21.4
10 18	2 32.83	+19 37.4	2.276	3.239	5.4	21.2
10 28	2 24.02	+19 27.1	2.247	3.235	2.2	21.0
11 7	2 14.94	+19 10.2	2.248	3.231	2.6	21.0
11 17	2 6.46	+18 49.9	2.279	3.227	5.9	21.2
11 27	1 59.36	+18 30.1	2.337	3.222	9.1	21.4
12 7	1 54.19	+18 14.8	2.421	3.217	11.9	21.6
216324 2007 UN_{98}			10 30.9 152°.41		0°.9/30.4 17	
9 28	2 51.03	+13 30.5	1.622	2.479	14.9	20.9
10 8	2 44.28	+13 6.1	1.559	2.487	10.8	20.6
10 18	2 35.13	+12 32.7	1.520	2.493	6.2	20.4
10 28	2 24.55	+11 54.0	1.507	2.500	1.5	20.1
11 7	2 13.79	+11 15.3	1.523	2.505	3.9	20.3
11 17	2 4.09	+10 42.3	1.567	2.510	8.6	20.6
11 27	1 56.50	+10 20.0	1.637	2.515	12.7	20.8
12 7	1 51.62	+10 11.6	1.728	2.518	16.2	21.1
172422 2003 OW_{13}			10 30.9 68°.50		6°.0/28.0 18	
9 28	2 51.49	+ 2 32.7	1.203	2.085	17.3	20.0
10 8	2 44.79	+ 1 46.2	1.169	2.105	12.8	19.8
10 18	2 35.40	+ 1 3.5	1.156	2.126	8.3	19.6
10 28	2 24.58	+ 0 32.4	1.167	2.147	6.0	19.6
11 7	2 13.89	+ 0 19.2	1.204	2.167	8.2	19.8
11 17	2 4.73	+ 0 27.2	1.265	2.188	12.2	20.0
11 27	1 58.17	+ 0 56.6	1.348	2.209	16.1	20.3
12 7	1 54.69	+ 1 44.9	1.450	2.229	19.3	20.6
115684 2003 UQ_{150}			10 30.9 318°.84		1°.6/29.9 17	
9 28	2 47.30	+ 8 35.8	2.141	2.998	11.8	19.4
10 8	2 41.23	+ 8 44.0	2.063	2.990	8.6	19.1
10 18	2 33.28	+ 8 50.6	2.010	2.983	5.0	18.9
10 28	2 24.14	+ 8 57.6	1.985	2.976	1.8	18.7
11 7	2 14.71	+ 9 7.4	1.990	2.969	3.7	18.8
11 17	2 5.92	+ 9 22.4	2.024	2.962	7.3	19.0
11 27	1 58.62	+ 9 44.5	2.086	2.956	10.7	19.2
12 7	1 53.40	+10 15.0	2.170	2.950	13.7	19.4
74188 1998 RC_{43}			10 30.9 77°.58		2°.5/ 1.8 18	
9 28	2 47.10	+22 28.9	1.752	2.590	14.8	19.3
10 8	2 41.36	+22 21.2	1.690	2.601	11.3	19.1
10 18	2 33.41	+21 57.7	1.651	2.612	7.2	18.9
10 28	2 24.16	+21 19.9	1.637	2.623	3.4	18.7
11 7	2 14.76	+20 31.8	1.652	2.635	3.4	18.7
11 17	2 6.35	+19 39.5	1.694	2.646	7.2	19.0
11 27	1 59.88	+18 49.9	1.763	2.657	11.0	19.2
12 7	1 55.93	+18 8.9	1.854	2.668	14.3	19.5
66839 1999 UE_{51}			10 30.9 54°.66		5°.0/28.1 18	
9 28	2 49.49	+ 4 3.6	1.373	2.251	15.8	18.6
10 8	2 42.91	+ 3 11.5	1.349	2.284	11.5	18.4
10 18	2 34.11	+ 2 21.8	1.347	2.318	7.3	18.3
10 28	2 24.26	+ 1 41.4	1.371	2.352	5.0	18.3
11 7	2 14.68	+ 1 16.3	1.422	2.387	7.1	18.5
11 17	2 6.50	+ 1 9.6	1.498	2.421	10.7	18.8
11 27	2 0.60	+ 1 22.3	1.598	2.455	14.2	19.1
12 7	1 57.36	+ 1 52.7	1.717	2.488	17.1	19.4
273543 2007 BP_{48}			10 30.9 314°.65		1°.1/30.4 18	
9 28	2 46.33	+12 52.1	1.300	2.178	16.5	20.5
10 8	2 41.64	+12 37.6	1.223	2.160	12.2	20.2
10 18	2 34.02	+12 13.4	1.167	2.143	7.1	19.9
10 28	2 24.38	+11 43.2	1.134	2.127	1.8	19.5
11 7	2 14.11	+11 12.7	1.127	2.110	4.6	19.7
11 17	2 4.75	+10 48.5	1.145	2.095	10.2	20.0
11 27	1 57.72	+10 36.9	1.186	2.080	15.3	20.2
12 7	1 53.87	+10 41.5	1.247	2.066	19.6	20.4
121307 1999 RT_{207}			10 30.9 86°.32		1°.4/ 1.3 18	
9 28	2 43.19	+21 18.0	2.140	2.976	12.5	19.4
10 8	2 38.21	+20 43.5	2.067	2.979	9.4	19.2
10 18	2 31.48	+19 55.4	2.018	2.982	5.8	19.0
10 28	2 23.71	+18 56.2	1.997	2.986	2.2	18.7
11 7	2 15.79	+17 50.4	2.004	2.989	2.7	18.8
11 17	2 8.60	+16 43.7	2.041	2.992	6.3	19.0
11 27	2 2.93	+15 42.2	2.105	2.995	9.8	19.2
12 7	1 59.26	+14 50.7	2.194	2.998	12.8	19.4
246351 2007 TR_{311}			10 30.9 54°.98		1°.9/29.6 18	
9 28	2 45.59	+11 15.6	1.630	2.499	14.2	20.6
10 8	2 40.25	+10 37.8	1.573	2.507	10.2	20.3
10 18	2 32.76	+ 9 53.3	1.540	2.516	5.9	20.1
10 28	2 24.01	+ 9 6.9	1.533	2.524	2.1	19.9
11 7	2 15.14	+ 8 24.6	1.554	2.533	4.4	20.1
11 17	2 7.25	+ 7 51.7	1.602	2.542	8.7	20.3
11 27	2 1.26	+ 7 32.6	1.675	2.551	12.6	20.6
12 7	1 57.72	+ 7 29.2	1.769	2.561	15.8	20.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
221842 2008 FD_{62}			10 30.9 76°.03		3°.6/28.4 17	
	h m	° ′			°	m
9 28	2 46.64	+ 9 31.4	1.385	2.263	15.7	19.9
10 8	2 41.14	+ 8 12.0	1.340	2.278	11.3	19.7
10 18	2 33.28	+ 6 46.3	1.318	2.293	6.7	19.5
10 28	2 24.12	+ 5 22.7	1.321	2.309	3.6	19.4
11 7	2 14.96	+ 4 10.1	1.352	2.324	6.2	19.6
11 17	2 7.02	+ 3 15.8	1.408	2.339	10.5	19.9
11 27	2 1.26	+ 2 44.1	1.488	2.355	14.5	20.1
12 7	1 58.21	+ 2 35.5	1.588	2.370	17.8	20.4
227029 2005 AB_{15}			10 30.9 305°.69		0°.7/31.5 17	
9 28	2 43.64	+17 23.6	2.122	2.970	12.2	20.3
10 8	2 38.69	+17 14.6	2.035	2.956	9.1	20.1
10 18	2 31.87	+16 55.9	1.973	2.942	5.5	19.9
10 28	2 23.84	+16 29.2	1.937	2.928	1.6	19.6
11 7	2 15.46	+15 57.8	1.930	2.915	2.7	19.6
11 17	2 7.68	+15 25.9	1.952	2.902	6.7	19.9
11 27	2 1.36	+14 58.2	2.001	2.888	10.3	20.1
12 7	1 57.11	+14 38.6	2.073	2.875	13.4	20.3
69419 1995 XH_{3}			10 30.9 262°.94		1°.4/29.8 18	
9 28	2 44.72	+12 58.6	1.811	2.674	13.3	19.9
10 8	2 39.62	+12 12.3	1.735	2.666	9.7	19.7
10 18	2 32.45	+11 16.8	1.683	2.658	5.6	19.4
10 28	2 23.97	+10 16.6	1.658	2.649	1.7	19.1
11 7	2 15.20	+ 9 17.7	1.661	2.641	4.0	19.3
11 17	2 7.20	+ 8 26.3	1.692	2.632	8.3	19.5
11 27	2 0.90	+ 7 47.8	1.749	2.623	12.2	19.7
12 7	1 56.91	+ 7 25.5	1.827	2.615	15.6	19.9
452109 2014 QS_{342}			10 30.9 48°.21		5°.7/25.9 18	
9 28	2 42.41	− 0 32.6	2.060	2.930	11.6	20.8
10 8	2 37.55	− 1 41.3	2.007	2.934	8.8	20.6
10 18	2 31.06	− 2 46.4	1.978	2.937	6.4	20.5
10 28	2 23.62	− 3 41.8	1.977	2.941	5.7	20.5
11 7	2 16.07	− 4 22.0	2.003	2.945	7.3	20.6
11 17	2 9.25	− 4 43.5	2.056	2.949	9.9	20.8
11 27	2 3.86	− 4 44.7	2.133	2.952	12.6	20.9
12 7	2 0.38	− 4 26.8	2.231	2.956	14.9	21.1
259432 2003 SA_{11}			10 30.9 16°.49		1°.2/31.5 18	
9 28	2 46.21	+16 45.8	0.968	1.856	20.0	19.8
10 8	2 41.92	+16 55.4	0.920	1.860	14.8	19.5
10 18	2 34.22	+16 49.6	0.890	1.867	8.9	19.2
10 28	2 24.40	+16 30.7	0.882	1.874	2.6	18.9
11 7	2 14.30	+16 4.7	0.897	1.883	4.4	19.0
11 17	2 5.73	+15 39.0	0.935	1.894	10.4	19.4
11 27	2 0.15	+15 21.9	0.994	1.905	15.8	19.7
12 7	1 58.22	+15 18.4	1.071	1.918	20.2	20.1
103513 2000 BM_{3}			10 30.9 279°.80		4°.8/ 3.4 18	
9 28	2 47.64	+27 40.2	1.881	2.694	14.9	19.1
10 8	2 42.07	+28 0.7	1.790	2.680	11.9	18.8
10 18	2 34.06	+28 3.4	1.722	2.665	8.6	18.6
10 28	2 24.38	+27 46.8	1.678	2.651	5.6	18.4
11 7	2 14.18	+27 12.2	1.662	2.636	5.1	18.3
11 17	2 4.69	+26 24.0	1.674	2.621	7.8	18.5
11 27	1 57.08	+25 29.6	1.712	2.607	11.3	18.6
12 7	1 52.11	+24 36.8	1.773	2.592	14.7	18.8
449318 2013 FP_{9}			10 30.9 71°.03		2°.6/28.7 18	
9 28	2 42.94	+ 9 52.8	1.950	2.817	12.3	21.4
10 8	2 38.02	+ 8 49.7	1.892	2.825	8.8	21.2
10 18	2 31.35	+ 7 41.2	1.859	2.833	5.2	21.0
10 28	2 23.70	+ 6 32.8	1.853	2.842	2.6	20.9
11 7	2 15.95	+ 5 30.7	1.877	2.850	4.6	21.0
11 17	2 8.99	+ 4 40.3	1.928	2.858	8.2	21.3
11 27	2 3.58	+ 4 5.4	2.005	2.866	11.5	21.5
12 7	2 0.20	+ 3 47.7	2.104	2.875	14.3	21.7
260672 2005 JV_{33}			10 30.9 218°.65		0°.7/31.6 18	
9 28	2 44.70	+19 18.9	2.147	2.987	12.4	21.4
10 8	2 39.36	+18 37.7	2.065	2.981	9.2	21.2
10 18	2 32.20	+17 43.7	2.007	2.975	5.5	20.9
10 28	2 23.91	+16 39.5	1.977	2.968	1.6	20.7
11 7	2 15.40	+15 30.1	1.977	2.961	2.7	20.7
11 17	2 7.58	+14 21.2	2.007	2.954	6.6	21.0
11 27	2 1.26	+13 19.2	2.063	2.946	10.2	21.2
12 7	1 57.01	+12 28.7	2.144	2.938	13.3	21.4
284500 2007 PE_{15}			10 30.9 102°.42		3°.6/28.2 16	
9 28	2 48.23	+ 5 38.1	1.956	2.818	12.5	21.5
10 8	2 41.66	+ 4 48.4	1.914	2.843	9.1	21.3
10 18	2 33.35	+ 3 58.2	1.896	2.866	5.6	21.1
10 28	2 24.14	+ 3 12.7	1.907	2.890	3.6	21.0
11 7	2 14.98	+ 2 36.7	1.947	2.912	5.4	21.2
11 17	2 6.78	+ 2 14.1	2.015	2.934	8.6	21.4
11 27	2 0.28	+ 2 6.9	2.110	2.956	11.7	21.7
12 7	1 55.92	+ 2 15.2	2.226	2.977	14.2	21.9

349820 2009 BA_{176} 10 30.9 257°.26 5°.0/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 46.18	+ 1 36.5	1.937	2.804	12.4	20.6
10 8	2 40.54	+ 0 49.2	1.863	2.792	9.3	20.4
10 18	2 32.94	+ 0 3.4	1.814	2.779	6.3	20.2
10 28	2 24.10	− 0 35.3	1.792	2.766	5.0	20.1
11 7	2 14.96	− 1 1.3	1.797	2.752	6.8	20.2
11 17	2 6.51	− 1 10.7	1.830	2.739	10.0	20.3
11 27	1 59.65	− 1 1.6	1.888	2.725	13.2	20.5
12 7	1 54.98	− 0 34.2	1.966	2.711	16.1	20.7

469394 2001 TH_{124} 10 30.9 23°.04 7°.5/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.00	+28 29.9	1.082	1.930	21.3	20.0
10 8	2 43.28	+29 29.1	1.035	1.941	17.1	19.8
10 18	2 35.05	+30 1.4	1.005	1.953	12.5	19.6
10 28	2 24.61	+30 2.9	0.996	1.967	8.6	19.4
11 7	2 13.86	+29 35.6	1.009	1.982	7.7	19.5
11 17	2 4.69	+28 47.3	1.046	1.998	10.6	19.7
11 27	1 58.60	+27 50.1	1.104	2.015	14.6	20.0
12 7	1 56.29	+26 55.5	1.182	2.034	18.4	20.3

285930 2001 QP_{253} 10 30.9 71°.01 3°.5/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.19	+24 28.7	1.810	2.635	15.0	20.7
10 8	2 42.78	+24 40.1	1.756	2.657	11.5	20.5
10 18	2 34.19	+24 35.2	1.725	2.679	7.7	20.4
10 28	2 24.36	+24 14.2	1.720	2.700	4.3	20.2
11 7	2 14.46	+23 40.4	1.743	2.722	4.0	20.2
11 17	2 5.62	+22 59.0	1.794	2.744	7.1	20.5
11 27	1 58.77	+22 16.7	1.871	2.765	10.6	20.7
12 7	1 54.46	+21 39.4	1.972	2.786	13.6	21.0

9789 1995 GO_{7} 10 30.9 235°.12 0°.1/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.30	+15 16.6	2.598	3.443	10.3	17.8
10 8	2 38.08	+14 55.6	2.514	3.434	7.6	17.6
10 18	2 31.37	+14 27.3	2.454	3.426	4.4	17.4
10 28	2 23.72	+13 54.1	2.424	3.416	1.0	17.1
11 7	2 15.86	+13 19.0	2.424	3.407	2.5	17.3
11 17	2 8.51	+12 45.6	2.454	3.398	5.8	17.5
11 27	2 2.36	+12 17.7	2.512	3.388	8.9	17.7
12 7	1 57.89	+11 58.1	2.594	3.378	11.6	17.8

306010 2010 CY_{136} 10 30.9 42°.66 20°.1/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.92	−41 58.1	1.665	2.378	20.4	19.4
10 8	2 43.48	−43 41.0	1.678	2.392	20.1	19.4
10 18	2 34.54	−44 41.8	1.705	2.407	20.1	19.5
10 28	2 24.39	−44 54.2	1.745	2.422	20.4	19.5
11 7	2 14.55	−44 17.9	1.798	2.437	20.8	19.6
11 17	2 6.30	−42 56.7	1.864	2.453	21.4	19.7
11 27	2 0.55	−40 57.7	1.940	2.470	21.9	19.9
12 7	1 57.68	−38 29.9	2.026	2.486	22.4	20.0

450495 2005 YB_{142} 10 30.9 299°.47 0°.9/30.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.00	+12 56.5	2.002	2.862	12.3	21.7
10 8	2 39.07	+12 34.2	1.912	2.841	9.0	21.5
10 18	2 32.16	+12 4.4	1.846	2.820	5.3	21.2
10 28	2 23.94	+11 30.2	1.807	2.800	1.3	20.9
11 7	2 15.32	+10 55.8	1.797	2.779	3.5	21.0
11 17	2 7.28	+10 25.7	1.815	2.758	7.6	21.2
11 27	2 0.73	+10 4.6	1.859	2.738	11.4	21.4
12 7	1 56.34	+ 9 55.6	1.926	2.718	14.7	21.6

96993 1999 TW_{219} 10 30.9 295°.14 7°.3/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.48	+31 28.8	1.725	2.523	16.7	18.9
10 8	2 44.56	+32 25.2	1.638	2.510	13.8	18.7
10 18	2 35.73	+33 1.9	1.572	2.497	10.7	18.4
10 28	2 24.84	+33 14.5	1.529	2.485	8.0	18.3
11 7	2 13.21	+33 2.1	1.513	2.472	7.4	18.2
11 17	2 2.37	+32 27.8	1.523	2.460	9.3	18.3
11 27	1 53.73	+31 39.4	1.558	2.448	12.5	18.5
12 7	1 48.21	+30 46.6	1.615	2.436	15.8	18.6

219955 2002 HB_{1} 10 30.9 115°.89 1°.7/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.35	+20 11.8	2.427	3.254	11.6	20.1
10 8	2 41.03	+20 19.5	2.361	3.267	8.7	19.9
10 18	2 33.06	+20 17.4	2.319	3.280	5.5	19.7
10 28	2 24.12	+20 6.1	2.305	3.293	2.3	19.6
11 7	2 15.04	+19 48.1	2.322	3.305	2.6	19.6
11 17	2 6.66	+19 26.4	2.369	3.317	5.7	19.8
11 27	1 59.72	+19 5.1	2.444	3.328	8.8	20.0
12 7	1 54.71	+18 48.0	2.544	3.340	11.4	20.2

216223 2006 UC_{132} 10 30.9 271°.86 0°.4/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.08	+19 56.9	1.977	2.823	13.1	20.1
10 8	2 38.33	+18 50.8	1.893	2.813	9.7	19.9
10 18	2 31.67	+17 28.7	1.834	2.803	5.8	19.6
10 28	2 23.82	+15 54.4	1.802	2.793	1.6	19.3
11 7	2 15.74	+14 14.7	1.799	2.783	2.9	19.4
11 17	2 8.38	+12 37.3	1.826	2.773	7.2	19.6
11 27	2 2.62	+11 10.1	1.880	2.763	11.1	19.9
12 7	1 59.00	+ 9 58.7	1.958	2.753	14.4	20.1

260775 2005 NZ_{8} 10 30.9 184°.98 1°.6/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 49.30	+20 46.6	1.943	2.776	13.8	21.6
10 8	2 42.88	+20 25.6	1.866	2.776	10.4	21.4
10 18	2 34.32	+19 50.3	1.812	2.776	6.4	21.2
10 28	2 24.44	+19 2.6	1.786	2.775	2.5	20.9
11 7	2 14.31	+18 6.7	1.789	2.773	3.0	21.0
11 17	2 5.02	+17 8.5	1.822	2.771	7.1	21.2
11 27	1 57.53	+16 14.5	1.882	2.768	10.9	21.5
12 7	1 52.46	+15 30.4	1.965	2.764	14.2	21.7

351096 2003 UT_{243} 10 30.9 10°.49 1°.7/31.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 35.05	+19 36.2	0.819	1.724	20.8	19.0
10 8	2 33.97	+19 19.0	0.783	1.731	15.5	18.7
10 18	2 29.64	+18 38.6	0.763	1.741	9.4	18.4
10 28	2 23.37	+17 40.6	0.764	1.755	3.2	18.2
11 7	2 16.94	+16 35.0	0.785	1.772	4.3	18.3
11 17	2 12.00	+15 33.4	0.827	1.791	10.3	18.7
11 27	2 9.81	+14 46.2	0.889	1.813	15.6	19.1
12 7	2 10.89	+14 18.8	0.969	1.838	20.0	19.5

346266 2008 FX_{125} 10 30.9 167°.65 1°.1/31.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.00	+18 52.4	1.921	2.759	13.7	22.0
10 8	2 43.36	+18 38.3	1.849	2.763	10.2	21.8
10 18	2 34.59	+18 11.9	1.801	2.768	6.2	21.6
10 28	2 24.51	+17 35.3	1.781	2.771	2.0	21.3
11 7	2 14.22	+16 52.2	1.790	2.774	3.0	21.4
11 17	2 4.81	+16 8.0	1.828	2.776	7.1	21.7
11 27	1 57.22	+15 28.6	1.894	2.778	11.0	21.9
12 7	1 52.06	+14 58.6	1.982	2.778	14.2	22.1

302726 2002 TT_{314} 10 30.9 247°.59 5°.1/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.45	+ 0 1.9	2.009	2.872	12.2	20.6
10 8	2 41.38	− 0 29.9	1.939	2.864	9.2	20.4
10 18	2 33.40	− 0 58.0	1.893	2.855	6.4	20.3
10 28	2 24.24	− 1 17.4	1.875	2.847	5.1	20.2
11 7	2 14.84	− 1 23.8	1.885	2.838	6.7	20.2
11 17	2 6.14	− 1 14.3	1.923	2.830	9.7	20.4
11 27	1 59.03	− 0 48.0	1.986	2.821	12.8	20.6
12 7	1 54.07	− 0 5.6	2.070	2.812	15.5	20.8

22688 1998 QB_{77} 10 30.9 163°.62 6°.1/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.64	+34 4.7	2.206	2.975	14.4	19.0
10 8	2 43.18	+34 25.0	2.127	2.979	11.9	18.8
10 18	2 34.53	+34 25.1	2.070	2.983	9.2	18.7
10 28	2 24.51	+34 3.1	2.038	2.986	6.9	18.5
11 7	2 14.21	+33 20.4	2.034	2.989	6.1	18.5
11 17	2 4.74	+32 21.1	2.058	2.992	7.5	18.6
11 27	1 57.11	+31 12.5	2.109	2.994	10.0	18.7
12 7	1 51.92	+30 2.5	2.185	2.995	12.6	18.9

397655 2007 YN_{44} 10 30.9 6°.44 2°.9/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 44.83	+ 8 11.0	1.671	2.544	13.7	21.0
10 8	2 39.74	+ 7 36.5	1.609	2.544	10.0	20.8
10 18	2 32.53	+ 6 58.4	1.570	2.545	5.9	20.6
10 28	2 24.04	+ 6 21.7	1.558	2.546	3.0	20.4
11 7	2 15.34	+ 5 51.7	1.572	2.547	5.1	20.5
11 17	2 7.52	+ 5 33.2	1.614	2.549	9.1	20.8
11 27	2 1.51	+ 5 29.5	1.680	2.551	12.9	21.0
12 7	1 57.89	+ 5 41.7	1.768	2.553	16.1	21.2

354461 2004 BV_{87} 10 30.9 226°.47 9°.4/ 9.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 56.15	+47 22.9	2.760	3.414	14.2	21.3
10 8	2 48.32	+48 26.1	2.660	3.401	12.8	21.1
10 18	2 37.80	+49 8.4	2.580	3.388	11.3	21.0
10 28	2 25.34	+49 24.6	2.522	3.373	10.1	20.9
11 7	2 12.16	+49 12.3	2.489	3.358	9.4	20.8
11 17	1 59.61	+48 32.6	2.482	3.343	9.7	20.8
11 27	1 48.99	+47 30.9	2.501	3.326	10.8	20.9
12 7	1 41.16	+46 15.5	2.544	3.309	12.3	21.0

446108 2013 DU_{4} 10 30.9 287°.38 0°.6/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.73	+17 4.7	1.829	2.682	13.7	21.5
10 8	2 40.46	+16 51.0	1.749	2.673	10.1	21.3
10 18	2 33.02	+16 26.3	1.693	2.664	6.1	21.0
10 28	2 24.19	+15 52.7	1.663	2.655	1.7	20.7
11 7	2 15.01	+15 14.3	1.661	2.646	3.1	20.8
11 17	2 6.57	+14 36.3	1.688	2.637	7.5	21.1
11 27	1 59.87	+14 4.4	1.740	2.628	11.5	21.3
12 7	1 55.56	+13 42.9	1.815	2.620	15.0	21.5

84206 2002 RE_{136} 10 30.9 345°.28 0°.6/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.33	+12 29.4	1.228	2.105	17.3	18.9
10 8	2 43.88	+12 41.9	1.163	2.099	12.8	18.6
10 18	2 35.35	+12 47.1	1.118	2.095	7.5	18.3
10 28	2 24.77	+12 47.4	1.098	2.090	1.7	17.9
11 7	2 13.71	+12 46.6	1.103	2.087	4.4	18.1
11 17	2 3.79	+12 49.3	1.133	2.084	10.0	18.4
11 27	1 56.43	+13 0.4	1.186	2.082	15.1	18.7
12 7	1 52.42	+13 23.0	1.258	2.081	19.3	19.0

454602 2014 PB_{66} 10 30.9 37°.23 1°.0/30.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 44.00	+13 28.7	1.639	2.507	14.2	21.0
10 8	2 38.99	+12 54.5	1.595	2.528	10.2	20.8
10 18	2 31.99	+12 12.2	1.575	2.551	5.8	20.6
10 28	2 23.91	+11 26.4	1.581	2.573	1.5	20.3
11 7	2 15.84	+10 42.8	1.615	2.597	3.7	20.6
11 17	2 8.79	+10 6.6	1.675	2.621	7.9	20.9
11 27	2 3.60	+ 9 42.2	1.761	2.645	11.7	21.2
12 7	2 0.72	+ 9 31.9	1.869	2.670	14.8	21.4

221526 2006 SN_{362} 10 30.9 202°.10 1°.2/30.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.13	+13 37.3	1.803	2.659	13.6	21.5
10 8	2 42.11	+12 53.6	1.728	2.656	10.0	21.3
10 18	2 33.93	+12 0.2	1.678	2.652	5.7	21.0
10 28	2 24.40	+11 1.3	1.655	2.647	1.5	20.7
11 7	2 14.60	+10 2.9	1.661	2.642	3.9	20.9
11 17	2 5.64	+ 9 11.2	1.696	2.636	8.3	21.1
11 27	1 58.50	+ 8 31.7	1.756	2.629	12.3	21.4
12 7	1 53.78	+ 8 8.0	1.839	2.622	15.6	21.6

415569 2014 QR_{247} 10 30.9 79°.52 0°.5/30.5 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.38	+13 23.6	2.256	3.105	11.5	21.4
10 8	2 40.26	+13 8.8	2.206	3.130	8.3	21.3
10 18	2 32.57	+12 48.2	2.182	3.154	4.8	21.1
10 28	2 24.04	+12 24.2	2.186	3.178	1.1	20.9
11 7	2 15.51	+12 0.3	2.220	3.202	2.8	21.1
11 17	2 7.77	+11 39.8	2.284	3.226	6.3	21.3
11 27	2 1.52	+11 26.0	2.375	3.249	9.4	21.6
12 7	1 57.19	+11 21.0	2.490	3.273	12.0	21.8

509648 2008 GQ_{49} 10 30.9 214°.87 1°.3/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.07	+12 25.1	1.770	2.628	13.8	22.0
10 8	2 42.89	+11 55.5	1.694	2.622	10.1	21.8
10 18	2 34.43	+11 17.9	1.641	2.615	5.8	21.5
10 28	2 24.54	+10 36.0	1.616	2.608	1.7	21.2
11 7	2 14.31	+ 9 55.1	1.620	2.600	4.0	21.4
11 17	2 4.92	+ 9 20.5	1.651	2.592	8.5	21.6
11 27	1 57.37	+ 8 57.3	1.709	2.583	12.5	21.9
12 7	1 52.33	+ 8 48.4	1.789	2.574	16.0	22.1

357032 2000 HT_{18} 10 30.9 256°.18 1°.3/30.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 45.69	+12 1.7	1.912	2.773	12.8	21.3
10 8	2 40.24	+11 36.4	1.839	2.769	9.3	21.1
10 18	2 32.81	+11 4.5	1.791	2.765	5.4	20.8
10 28	2 24.15	+10 29.4	1.770	2.762	1.6	20.5
11 7	2 15.24	+ 9 55.8	1.777	2.758	3.7	20.7
11 17	2 7.07	+ 9 28.2	1.813	2.754	7.8	20.9
11 27	2 0.55	+ 9 10.7	1.875	2.750	11.5	21.2
12 7	1 56.25	+ 9 6.0	1.959	2.746	14.7	21.4

99545 2002 EM_{103} 10 30.9 110°.56 3°.2/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 48.33	+ 6 35.4	1.823	2.687	13.2	19.8
10 8	2 42.01	+ 6 0.8	1.770	2.700	9.6	19.6
10 18	2 33.73	+ 5 24.5	1.741	2.713	5.8	19.4
10 28	2 24.34	+ 4 51.5	1.740	2.726	3.3	19.3
11 7	2 14.89	+ 4 26.4	1.768	2.738	5.2	19.5
11 17	2 6.38	+ 4 13.1	1.823	2.750	8.8	19.7
11 27	1 59.66	+ 4 14.1	1.904	2.762	12.2	19.9
12 7	1 55.25	+ 4 29.7	2.007	2.773	15.1	20.2

392064 2009 CB_{26} 10 30.9 134°.43 0°.2/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.87	+16 12.1	2.180	3.024	12.1	21.6
10 8	2 40.81	+15 52.4	2.115	3.035	8.8	21.4
10 18	2 33.00	+15 23.9	2.074	3.045	5.2	21.2
10 28	2 24.18	+14 49.1	2.062	3.054	1.3	21.0
11 7	2 15.24	+14 11.8	2.080	3.064	2.7	21.1
11 17	2 7.06	+13 36.2	2.127	3.072	6.5	21.4
11 27	2 0.42	+13 6.8	2.202	3.081	9.9	21.6
12 7	1 55.82	+12 46.7	2.300	3.089	12.7	21.8

212365 2006 GF_{25} 10 30.9 103°.36 0°.6/30.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 51.38	+14 43.4	1.428	2.289	16.3	21.5
10 8	2 44.67	+14 12.5	1.378	2.307	11.8	21.3
10 18	2 35.42	+13 30.6	1.350	2.324	6.8	21.1
10 28	2 24.74	+12 42.1	1.348	2.340	1.5	20.8
11 7	2 14.03	+11 53.4	1.374	2.357	4.0	21.0
11 17	2 4.61	+11 11.3	1.427	2.372	9.0	21.4
11 27	1 57.56	+10 41.6	1.504	2.388	13.3	21.6
12 7	1 53.40	+10 27.4	1.603	2.403	16.9	21.9

129272 2005 QD_{173} 10 30.9 18°.75 2°.5/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 43.61	+12 35.5	1.231	2.117	16.7	19.2
10 8	2 39.39	+11 27.1	1.178	2.120	12.1	18.9
10 18	2 32.53	+10 7.1	1.146	2.124	7.0	18.6
10 28	2 24.10	+ 8 43.3	1.139	2.130	2.6	18.4
11 7	2 15.48	+ 7 25.7	1.156	2.135	5.6	18.6
11 17	2 8.06	+ 6 23.4	1.199	2.142	10.6	18.9
11 27	2 2.94	+ 5 42.9	1.264	2.149	15.2	19.2
12 7	2 0.73	+ 5 26.2	1.348	2.157	19.0	19.5

509358 2007 AO_{23} 10 30.9 258°.37 1°.4/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
9 28	2 48.23	+19 57.3	1.808	2.649	14.3	22.3
10 8	2 42.50	+19 35.6	1.713	2.629	10.8	22.0
10 18	2 34.36	+18 58.9	1.642	2.608	6.7	21.8
10 28	2 24.57	+18 8.6	1.597	2.587	2.4	21.4
11 7	2 14.25	+17 9.1	1.580	2.565	3.2	21.5
11 17	2 4.61	+16 6.8	1.592	2.542	7.8	21.7
11 27	1 56.80	+15 9.2	1.631	2.519	12.2	21.9
12 7	1 51.58	+14 22.7	1.691	2.495	16.0	22.1

383594 2007 GO_{70} 10 30.9 146°.35 0°.7/30.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.71	+14 23.7	1.885	2.738	13.3	22.0
10 8	2 41.63	+13 46.6	1.821	2.746	9.7	21.8
10 18	2 33.56	+13 0.5	1.781	2.754	5.6	21.6
10 28	2 24.33	+12 9.0	1.769	2.761	1.3	21.3
11 7	2 14.96	+11 17.5	1.786	2.768	3.4	21.5
11 17	2 6.47	+10 31.5	1.831	2.774	7.6	21.8
11 27	1 59.73	+ 9 55.9	1.903	2.779	11.3	22.0
12 7	1 55.30	+ 9 34.0	1.998	2.784	14.5	22.2

381072 2007 AZ_{3} 10 30.9 340°.52 21°.8/18.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 49.77	+56 51.7	1.255	1.934	27.4	20.0
10 8	2 47.20	+59 16.7	1.187	1.918	26.1	19.8
10 18	2 38.97	+61 2.7	1.130	1.904	24.7	19.6
10 28	2 25.92	+61 55.0	1.084	1.892	23.3	19.5
11 7	2 10.83	+61 43.0	1.052	1.881	22.3	19.4
11 17	1 57.53	+60 24.8	1.033	1.871	21.8	19.3
11 27	1 49.39	+58 10.2	1.030	1.863	22.0	19.3
12 7	1 47.82	+55 17.6	1.043	1.857	23.0	19.3

364500 2007 EU_{57} 10 30.9 238°.12 4°.6/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 42.53	+ 2 6.5	2.229	3.096	11.0	20.5
10 8	2 37.65	+ 1 1.1	2.164	3.092	8.2	20.3
10 18	2 31.19	− 0 3.7	2.124	3.088	5.6	20.1
10 28	2 23.78	− 1 2.2	2.112	3.083	4.6	20.1
11 7	2 16.21	− 1 49.1	2.128	3.079	6.3	20.2
11 17	2 9.26	− 2 20.4	2.172	3.074	9.0	20.3
11 27	2 3.64	− 2 33.8	2.242	3.069	11.8	20.5
12 7	1 59.83	− 2 29.1	2.332	3.064	14.2	20.7

378646 2008 GQ_{27} 10 30.9 237°.05 2°.0/29.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.13	+12 13.1	1.571	2.438	14.7	21.7
10 8	2 41.68	+11 20.5	1.498	2.431	10.7	21.5
10 18	2 33.82	+10 17.9	1.449	2.424	6.2	21.2
10 28	2 24.43	+ 9 11.0	1.426	2.417	2.2	20.9
11 7	2 14.71	+ 8 6.9	1.430	2.409	4.8	21.1
11 17	2 5.90	+ 7 12.9	1.462	2.401	9.5	21.4
11 27	1 59.08	+ 6 35.1	1.518	2.393	13.8	21.6
12 7	1 54.93	+ 6 16.5	1.595	2.384	17.4	21.8

210301 2007 TX_{123} 10 30.9 53°.48 0°.8/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.11	+13 19.7	1.631	2.495	14.5	20.1
10 8	2 41.45	+13 3.7	1.573	2.503	10.5	19.8
10 18	2 33.56	+12 39.7	1.537	2.512	6.1	19.6
10 28	2 24.35	+12 11.0	1.528	2.520	1.4	19.3
11 7	2 14.98	+11 42.5	1.547	2.529	3.7	19.5
11 17	2 6.59	+11 19.0	1.592	2.538	8.2	19.8
11 27	2 0.16	+11 5.0	1.664	2.548	12.2	20.1
12 7	1 56.26	+11 3.4	1.756	2.557	15.6	20.3

73932 1997 QD_{5} 10 30.9 101°.94 8°.9/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 50.75	+45 48.0	2.523	3.205	14.8	18.7
10 8	2 44.10	+46 29.6	2.451	3.217	13.1	18.6
10 18	2 35.14	+46 47.9	2.398	3.229	11.3	18.4
10 28	2 24.74	+46 39.4	2.367	3.241	9.8	18.4
11 7	2 14.07	+46 3.8	2.361	3.253	8.9	18.3
11 17	2 4.33	+45 4.4	2.380	3.264	9.1	18.4
11 27	1 56.55	+43 47.7	2.426	3.276	10.2	18.5
12 7	1 51.37	+42 22.0	2.495	3.287	11.8	18.6

515479 2014 BX_{25} 10 30.9 261°.28 1°.1/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 46.78	+13 44.4	1.698	2.560	14.1	22.1
10 8	2 41.38	+13 8.7	1.617	2.547	10.3	21.8
10 18	2 33.66	+12 22.7	1.559	2.533	6.0	21.6
10 28	2 24.42	+11 30.5	1.528	2.520	1.5	21.2
11 7	2 14.77	+10 37.9	1.524	2.506	4.0	21.4
11 17	2 5.90	+ 9 51.1	1.549	2.492	8.6	21.6
11 27	1 58.88	+ 9 16.1	1.598	2.478	12.9	21.8
12 7	1 54.40	+ 8 56.8	1.669	2.464	16.5	22.1

220122 2002 TJ_{58} 10 30.9 52°.00 1°.8/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9 28	2 47.74	+20 50.2	1.235	2.098	18.2	19.9
10 8	2 42.40	+20 23.4	1.188	2.114	13.6	19.7
10 18	2 34.26	+19 37.1	1.161	2.131	8.4	19.4
10 28	2 24.52	+18 35.0	1.158	2.148	3.0	19.2
11 7	2 14.73	+17 24.8	1.180	2.165	3.8	19.3
11 17	2 6.37	+16 15.7	1.228	2.183	8.9	19.6
11 27	2 0.55	+15 16.8	1.300	2.202	13.6	20.0
12 7	1 57.84	+14 34.2	1.392	2.220	17.5	20.3