160566 1998 SO_{156} 3 19.9 255°.65 0°.4/19.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.93	− 0 18.0	2.327	3.111	12.8	20.6
2 21	12 19.58	− 0 3.8	2.218	3.094	10.0	20.3
3 2	12 13.23	+ 0 20.8	2.132	3.077	6.7	20.1
3 12	12 5.34	+ 0 52.7	2.074	3.059	3.0	19.8
3 22	11 56.59	+ 1 28.1	2.045	3.040	1.0	19.6
4 1	11 47.84	+ 2 2.1	2.045	3.021	4.9	19.9
4 11	11 39.96	+ 2 30.0	2.074	3.002	8.7	20.1
4 21	11 33.62	+ 2 48.4	2.128	2.983	12.0	20.2

284620 2007 UW_{126} 3 19.9 237°.37 3°.1/16.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.67	+ 7 47.4	2.361	3.170	11.9	21.5
2 21	12 17.68	+ 8 32.1	2.272	3.164	9.1	21.3
3 2	12 11.84	+ 9 22.5	2.207	3.158	6.1	21.1
3 12	12 4.65	+10 13.4	2.170	3.151	3.5	20.9
3 22	11 56.78	+10 59.4	2.162	3.144	3.7	20.9
4 1	11 49.04	+11 35.3	2.183	3.137	6.5	21.1
4 11	11 42.21	+11 57.3	2.231	3.130	9.6	21.3
4 21	11 36.88	+12 3.8	2.303	3.123	12.4	21.4

198540 2004 XK_{122} 3 19.9 146°.86 2°.4/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.17	+ 4 35.9	2.357	3.158	12.1	20.9
2 21	12 17.96	+ 5 30.0	2.278	3.166	9.3	20.7
3 2	12 11.95	+ 6 32.2	2.224	3.175	6.1	20.5
3 12	12 4.66	+ 7 37.0	2.198	3.182	3.1	20.3
3 22	11 56.79	+ 8 38.8	2.202	3.189	3.0	20.3
4 1	11 49.12	+ 9 31.8	2.236	3.196	5.9	20.5
4 11	11 42.41	+10 11.8	2.296	3.202	9.1	20.7
4 21	11 37.20	+10 36.6	2.382	3.208	11.9	20.9

298966 2004 VN_{17} 3 19.9 101°.80 2°.1/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.35	+ 2 36.8	1.631	2.439	16.3	20.8
2 21	12 22.62	+ 3 20.3	1.568	2.458	12.6	20.6
3 2	12 15.33	+ 4 15.7	1.526	2.477	8.2	20.4
3 12	12 6.24	+ 5 16.3	1.510	2.496	3.7	20.1
3 22	11 56.41	+ 6 14.6	1.522	2.514	2.9	20.1
4 1	11 47.03	+ 7 3.0	1.562	2.531	7.0	20.4
4 11	11 39.18	+ 7 36.1	1.627	2.548	11.2	20.7
4 21	11 33.55	+ 7 51.5	1.715	2.564	14.7	20.9

432050 2008 XA_{37} 3 19.9 192°.80 0°.3/19.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.97	− 1 15.4	2.303	3.089	12.8	22.1
2 21	12 17.95	− 0 51.8	2.211	3.088	10.0	21.9
3 2	12 12.03	− 0 16.8	2.142	3.087	6.7	21.7
3 12	12 4.74	+ 0 26.1	2.101	3.086	3.0	21.5
3 22	11 56.77	+ 1 12.6	2.088	3.084	0.9	21.3
4 1	11 48.92	+ 1 57.4	2.105	3.082	4.7	21.6
4 11	11 42.00	+ 2 35.7	2.150	3.080	8.3	21.8
4 21	11 36.61	+ 3 3.8	2.220	3.078	11.5	22.0

100380 1995 VS_{10} 3 19.9 170°.90 2°.5/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.49	+ 5 56.6	2.395	3.196	12.0	20.4
2 21	12 18.99	+ 6 41.6	2.312	3.200	9.2	20.3
3 2	12 12.65	+ 7 33.4	2.253	3.202	6.1	20.1
3 12	12 4.99	+ 8 26.9	2.222	3.205	3.2	19.9
3 22	11 56.71	+ 9 16.6	2.221	3.207	3.1	19.9
4 1	11 48.61	+ 9 57.5	2.249	3.208	6.0	20.1
4 11	11 41.46	+10 25.7	2.306	3.209	9.1	20.3
4 21	11 35.82	+10 39.3	2.386	3.209	12.0	20.4

105881 2000 SZ_{178} 3 19.9 139°.37 0°.7/19.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.93	+ 1 17.2	2.783	3.567	10.9	20.6
2 21	12 17.49	+ 1 36.5	2.697	3.575	8.4	20.4
3 2	12 11.50	+ 2 3.3	2.637	3.582	5.5	20.2
3 12	12 4.43	+ 2 34.5	2.604	3.590	2.4	20.0
3 22	11 56.86	+ 3 6.5	2.602	3.597	1.2	19.9
4 1	11 49.45	+ 3 35.6	2.631	3.603	4.2	20.2
4 11	11 42.84	+ 3 58.3	2.688	3.610	7.2	20.4
4 21	11 37.51	+ 4 12.4	2.770	3.616	9.8	20.5

20244 1998 EF 3 19.9 327°.95 5°.9/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.72	+ 8 58.4	1.451	2.290	16.4	18.0
2 21	12 18.08	+10 32.4	1.378	2.287	12.6	17.7
3 2	12 12.68	+12 17.2	1.328	2.283	8.7	17.5
3 12	12 5.19	+14 2.0	1.303	2.280	6.0	17.3
3 22	11 56.65	+15 34.6	1.303	2.277	7.1	17.4
4 1	11 48.36	+16 44.6	1.329	2.274	10.7	17.6
4 11	11 41.55	+17 25.8	1.378	2.271	14.7	17.8
4 21	11 37.07	+17 37.1	1.445	2.269	18.3	18.0

237637 2001 SV_{57} 3 19.9 155°.97 2°.2/22.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.81	− 9 26.9	1.790	2.555	16.8	21.1
2 21	12 20.70	− 9 4.0	1.704	2.562	13.5	20.9
3 2	12 14.15	− 8 19.6	1.639	2.568	9.6	20.7
3 12	12 5.78	− 7 16.0	1.598	2.574	5.4	20.4
3 22	11 56.51	− 5 58.4	1.586	2.579	2.2	20.2
4 1	11 47.47	− 4 34.8	1.602	2.583	5.2	20.4
4 11	11 39.71	− 3 14.0	1.645	2.587	9.5	20.7
4 21	11 33.99	− 2 3.4	1.712	2.590	13.3	20.9

8866 Tanegashima 3 19.9 98°.09 3°.7/24.2 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.40	−13 14.4	2.504	3.229	13.5	17.4
2 21	12 18.87	−13 33.4	2.419	3.244	11.2	17.3
3 2	12 12.54	−13 36.7	2.357	3.260	8.4	17.1
3 12	12 4.93	−13 24.6	2.319	3.275	5.7	17.0
3 22	11 56.74	−12 59.1	2.311	3.290	3.8	16.9
4 1	11 48.72	−12 23.6	2.331	3.305	4.6	16.9
4 11	11 41.64	−11 42.9	2.380	3.320	7.1	17.1
4 21	11 36.04	−11 2.1	2.455	3.334	9.8	17.3

508415 2016 JU_{11} 3 19.9 260°.40 6°.3/12.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.65	+17 0.5	2.250	3.068	12.1	21.7
2 21	12 19.51	+18 16.8	2.159	3.048	9.7	21.5
3 2	12 13.24	+19 34.3	2.092	3.028	7.4	21.3
3 12	12 5.36	+20 45.4	2.052	3.007	6.3	21.2
3 22	11 56.62	+21 42.4	2.041	2.986	7.3	21.3
4 1	11 47.93	+22 19.5	2.056	2.965	9.7	21.4
4 11	11 40.21	+22 33.4	2.097	2.943	12.4	21.5
4 21	11 34.19	+22 24.2	2.158	2.920	15.0	21.6

369561 2011 BF_3 3 20.0 100°.72 1°.4/18.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.03	+ 1 29.0	1.843	2.647	14.9	21.6
2 21	12 19.89	+ 2 3.3	1.769	2.657	11.5	21.4
3 2	12 13.47	+ 2 49.3	1.717	2.668	7.6	21.1
3 12	12 5.42	+ 3 41.7	1.692	2.678	3.4	20.9
3 22	11 56.64	+ 4 34.2	1.694	2.688	2.1	20.8
4 1	11 48.14	+ 5 20.4	1.725	2.698	6.1	21.1
4 11	11 40.91	+ 5 54.6	1.782	2.707	10.1	21.4
4 21	11 35.60	+ 6 14.0	1.863	2.717	13.5	21.6

27125 Siyilee 3 20.0 131°.27 1°.4/21.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.22	− 6 2.9	1.716	2.494	16.9	19.6
2 21	12 22.57	− 5 47.1	1.639	2.507	13.4	19.3
3 2	12 15.37	− 5 12.9	1.583	2.520	9.3	19.1
3 12	12 6.32	− 4 23.3	1.551	2.532	4.7	18.9
3 22	11 56.41	− 3 23.8	1.548	2.543	1.4	18.7
4 1	11 46.81	− 2 21.8	1.572	2.554	5.4	19.0
4 11	11 38.62	− 1 24.8	1.624	2.564	9.8	19.2
4 21	11 32.60	− 0 38.7	1.700	2.573	13.7	19.5

313716 2003 UT_{118} 3 20.0 121°.02 1°.2/21.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.49	− 5 55.1	1.854	2.630	15.9	22.0
2 21	12 21.01	− 5 35.2	1.777	2.645	12.6	21.8
3 2	12 14.22	− 4 58.0	1.722	2.659	8.7	21.6
3 12	12 5.76	− 4 6.8	1.692	2.673	4.4	21.4
3 22	11 56.55	− 3 6.8	1.690	2.686	1.3	21.2
4 1	11 47.64	− 2 4.9	1.718	2.698	5.1	21.5
4 11	11 40.01	− 1 8.1	1.772	2.711	9.2	21.7
4 21	11 34.35	− 0 21.9	1.851	2.722	12.8	22.0

423519 2005 UR_{69} 3 20.0 182°.32 3°.7/24.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.06	−15 45.9	2.648	3.355	13.3	23.2
2 21	12 18.62	−15 37.6	2.544	3.357	11.1	23.0
3 2	12 12.42	−15 11.3	2.462	3.357	8.5	22.9
3 12	12 4.92	−14 27.5	2.405	3.357	5.8	22.7
3 22	11 56.76	−13 28.3	2.377	3.355	3.8	22.6
4 1	11 48.69	−12 18.2	2.379	3.354	4.5	22.6
4 11	11 41.45	−11 2.9	2.411	3.351	7.0	22.8
4 21	11 35.63	− 9 48.7	2.470	3.347	9.8	22.9

309298 2007 RJ_{239} 3 20.0 117°.13 3°.2/16.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.86	+ 5 33.7	1.850	2.657	14.7	21.3
2 21	12 21.97	+ 6 33.5	1.785	2.677	11.2	21.1
3 2	12 14.77	+ 7 41.9	1.744	2.695	7.4	20.9
3 12	12 5.97	+ 8 51.8	1.731	2.713	3.9	20.7
3 22	11 56.52	+ 9 55.5	1.746	2.731	3.9	20.8
4 1	11 47.46	+10 46.4	1.789	2.747	7.3	21.0
4 11	11 39.76	+11 19.8	1.859	2.764	10.9	21.2
4 21	11 34.06	+11 34.3	1.952	2.779	14.1	21.5

385421 2003 CL_{26} 3 20.0 23°.94 3°.4/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 16.10	+ 3 55.8	1.887	2.711	13.8	20.3
2 21	12 13.75	+ 5 32.9	1.816	2.717	10.5	20.1
3 2	12 9.39	+ 7 22.5	1.768	2.724	6.9	19.9
3 12	12 3.59	+ 9 16.2	1.748	2.732	3.8	19.7
3 22	11 57.11	+11 4.7	1.757	2.740	4.3	19.8
4 1	11 50.85	+12 39.0	1.793	2.748	7.6	20.0
4 11	11 45.67	+13 52.6	1.856	2.757	11.1	20.2
4 21	11 42.16	+14 42.7	1.940	2.767	14.2	20.5

38696 2000 QR_{58} 3 20.0 85°.13 5°.0/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.64	+ 8 17.0	1.465	2.296	16.7	19.2
2 21	12 20.96	+ 9 27.9	1.401	2.304	12.8	19.0
3 2	12 14.47	+10 47.6	1.358	2.312	8.7	18.8
3 12	12 5.96	+12 6.5	1.340	2.320	5.4	18.6
3 22	11 56.53	+13 14.5	1.348	2.328	6.0	18.7
4 1	11 47.50	+14 2.8	1.383	2.335	9.6	18.9
4 11	11 40.07	+14 26.7	1.441	2.343	13.6	19.1
4 21	11 35.02	+14 25.7	1.519	2.351	17.2	19.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
240586 2004 TH_{160}			3 20.0 245°.78		1°.5/21.3 17	
	h m	° ′			°	m
2 11	12 24.55	− 6 17.5	1.732	2.513	16.6	21.2
2 21	12 20.83	− 6 4.0	1.630	2.500	13.4	20.9
3 2	12 14.48	− 5 31.2	1.549	2.486	9.4	20.7
3 12	12 6.07	− 4 41.1	1.492	2.472	4.9	20.3
3 22	11 56.46	− 3 38.6	1.462	2.457	1.5	20.1
4 1	11 46.84	− 2 30.7	1.460	2.442	5.7	20.3
4 11	11 38.41	− 1 26.1	1.485	2.426	10.4	20.5
4 21	11 32.09	− 0 31.9	1.533	2.410	14.7	20.8
28424 1999 XA			3 20.0 135°.80		4°.1/16.2 18	
2 11	12 29.73	+10 11.7	2.053	2.857	13.6	18.8
2 21	12 23.99	+10 57.1	1.985	2.873	10.5	18.6
3 2	12 16.03	+11 46.0	1.941	2.887	7.1	18.5
3 12	12 6.54	+12 31.9	1.924	2.901	4.4	18.3
3 22	11 56.40	+13 8.7	1.937	2.914	4.7	18.4
4 1	11 46.63	+13 31.2	1.978	2.926	7.6	18.6
4 11	11 38.17	+13 36.9	2.047	2.937	10.8	18.8
4 21	11 31.64	+13 25.4	2.139	2.948	13.6	19.0
162491 2000 PV_{23}			3 20.0 225°.11		3°.9/15.8 17	
2 11	12 24.69	+ 6 49.6	2.007	2.817	13.6	20.7
2 21	12 20.50	+ 8 8.2	1.912	2.805	10.5	20.5
3 2	12 14.01	+ 9 37.4	1.841	2.792	7.1	20.3
3 12	12 5.77	+11 9.8	1.798	2.778	4.3	20.1
3 22	11 56.57	+12 37.0	1.784	2.763	4.8	20.1
4 1	11 47.41	+13 50.6	1.799	2.747	8.1	20.2
4 11	11 39.32	+14 44.5	1.840	2.731	11.8	20.4
4 21	11 33.06	+15 16.2	1.904	2.713	15.1	20.6
500287 2012 PQ_{23}			3 20.0 240°.93		5°.6/12.2 17	
2 11	12 20.15	+12 58.8	2.268	3.089	11.9	21.4
2 21	12 16.73	+14 48.6	2.181	3.077	9.3	21.3
3 2	12 11.35	+16 44.1	2.122	3.065	6.8	21.1
3 12	12 4.51	+18 36.8	2.090	3.052	5.6	21.0
3 22	11 56.89	+20 17.9	2.088	3.039	6.8	21.0
4 1	11 49.32	+21 40.1	2.114	3.026	9.3	21.1
4 11	11 42.67	+22 38.6	2.166	3.012	12.0	21.3
4 21	11 37.57	+23 12.2	2.238	2.998	14.6	21.5
25345 1999 RW_{88}			3 20.0 108°.32		0°.8/20.7 18	
2 11	12 26.00	− 5 19.6	1.441	2.236	18.7	19.3
2 21	12 22.06	− 4 52.5	1.370	2.249	14.8	19.1
3 2	12 15.25	− 4 3.8	1.319	2.262	10.1	18.8
3 12	12 6.33	− 2 58.0	1.292	2.275	4.9	18.6
3 22	11 56.45	− 1 42.5	1.291	2.287	1.1	18.3
4 1	11 46.96	− 0 26.8	1.318	2.299	6.2	18.7
4 11	11 39.10	+ 0 39.6	1.369	2.310	11.1	19.0
4 21	11 33.70	+ 1 30.3	1.444	2.321	15.4	19.3
419758 2010 VY_{105}			3 20.0 118°.96		3°.4/23.8 18	
2 11	12 22.33	−13 31.7	1.963	2.706	16.2	22.4
2 21	12 18.55	−13 11.5	1.880	2.719	13.3	22.2
3 2	12 12.58	−12 28.9	1.817	2.731	9.8	22.0
3 12	12 5.04	−11 25.2	1.779	2.743	6.2	21.8
3 22	11 56.77	−10 5.1	1.768	2.755	3.5	21.7
4 1	11 48.74	− 8 35.5	1.786	2.766	5.0	21.8
4 11	11 41.88	− 7 5.0	1.832	2.777	8.4	22.0
4 21	11 36.85	− 5 41.4	1.903	2.788	11.9	22.2
134145 2005 AN_{48}			3 20.0 128°.25		0°.2/19.9 18	
2 11	12 24.17	− 2 42.9	1.672	2.468	16.5	20.5
2 21	12 20.32	− 2 10.3	1.593	2.475	12.9	20.2
3 2	12 13.94	− 1 20.7	1.536	2.482	8.7	20.0
3 12	12 5.72	− 0 18.7	1.503	2.488	3.9	19.7
3 22	11 56.60	+ 0 49.0	1.499	2.494	1.1	19.5
4 1	11 47.75	+ 1 54.3	1.522	2.500	5.9	19.9
4 11	11 40.26	+ 2 49.7	1.571	2.506	10.4	20.1
4 21	11 34.89	+ 3 30.0	1.643	2.511	14.3	20.4
120441 1979 MZ_{7}			3 20.0 210°.22		0°.6/19.5 18	
2 11	12 24.87	− 1 46.2	1.930	2.719	14.9	21.5
2 21	12 20.67	− 1 6.5	1.834	2.713	11.7	21.3
3 2	12 14.14	− 0 11.2	1.761	2.706	7.8	21.0
3 12	12 5.82	+ 0 55.2	1.714	2.699	3.5	20.8
3 22	11 56.56	+ 2 6.6	1.695	2.690	1.3	20.6
4 1	11 47.39	+ 3 15.5	1.706	2.681	5.8	20.9
4 11	11 39.34	+ 4 14.7	1.743	2.671	10.1	21.1
4 21	11 33.18	+ 4 59.4	1.805	2.661	13.8	21.3
469409 2001 UZ_{225}			3 20.0 232°.66		1°.4/18.2 17	
2 11	12 19.17	+ 1 22.3	2.480	3.276	11.7	21.8
2 21	12 15.70	+ 2 14.4	2.384	3.269	9.1	21.6
3 2	12 10.52	+ 3 17.2	2.312	3.262	5.9	21.4
3 12	12 4.09	+ 4 26.2	2.268	3.254	2.7	21.1
3 22	11 57.01	+ 5 35.9	2.254	3.246	2.0	21.1
4 1	11 50.02	+ 6 40.6	2.270	3.238	5.2	21.3
4 11	11 43.83	+ 7 35.1	2.313	3.229	8.5	21.5
4 21	11 39.01	+ 8 16.0	2.381	3.221	11.4	21.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
393336 2014 BV_{41}			3 20.0 248°.37		1°.4/18.4 17	
	h m	° ′			°	m
2 11	12 20.07	+ 1 59.3	2.391	3.189	12.1	21.6
2 21	12 16.44	+ 2 35.3	2.299	3.185	9.3	21.4
3 2	12 11.03	+ 3 20.6	2.231	3.180	6.1	21.2
3 12	12 4.32	+ 4 11.2	2.190	3.176	2.7	21.0
3 22	11 56.96	+ 5 2.2	2.178	3.171	1.9	20.9
4 1	11 49.72	+ 5 48.3	2.196	3.166	5.2	21.1
4 11	11 43.33	+ 6 25.0	2.241	3.162	8.5	21.3
4 21	11 38.38	+ 6 49.4	2.311	3.157	11.5	21.5
378706 2008 OD_{24}			3 20.0 165°.80		1°.2/21.3 17	
2 11	12 22.69	− 5 53.9	2.259	3.027	13.6	21.8
2 21	12 18.56	− 5 39.2	2.167	3.030	10.8	21.6
3 2	12 12.48	− 5 10.2	2.099	3.033	7.5	21.4
3 12	12 4.99	− 4 29.3	2.056	3.036	3.9	21.1
3 22	11 56.80	− 3 40.4	2.043	3.038	1.2	20.9
4 1	11 48.76	− 2 48.6	2.059	3.039	4.4	21.2
4 11	11 41.68	− 1 59.7	2.103	3.041	8.0	21.4
4 21	11 36.18	− 1 18.2	2.172	3.042	11.2	21.6
361622 2007 TB_{92}			3 20.0 96°.83		3°.3/16.9 18	
2 11	12 26.57	+ 5 15.8	1.709	2.521	15.5	20.8
2 21	12 21.87	+ 6 19.4	1.651	2.545	11.8	20.6
3 2	12 14.76	+ 7 32.3	1.616	2.568	7.8	20.4
3 12	12 5.99	+ 8 46.8	1.607	2.590	4.1	20.3
3 22	11 56.58	+ 9 54.4	1.627	2.612	4.1	20.3
4 1	11 47.64	+10 47.9	1.674	2.634	7.6	20.6
4 11	11 40.16	+11 22.6	1.747	2.654	11.4	20.8
4 21	11 34.80	+11 37.2	1.843	2.675	14.6	21.1
266483 2008 CM_{91}			3 20.0 210°.66		1°.8/21.6 17	
2 11	12 25.47	− 6 24.3	1.991	2.760	15.2	21.2
2 21	12 21.09	− 6 25.2	1.894	2.755	12.2	21.0
3 2	12 14.40	− 6 10.5	1.818	2.751	8.6	20.8
3 12	12 5.94	− 5 41.9	1.768	2.745	4.6	20.5
3 22	11 56.55	− 5 2.9	1.745	2.739	1.8	20.3
4 1	11 47.24	− 4 18.6	1.752	2.733	5.0	20.5
4 11	11 39.03	− 3 35.3	1.787	2.727	9.0	20.7
4 21	11 32.68	− 2 58.6	1.846	2.720	12.7	21.0
243578 1996 XO_{12}			3 20.0 147°.14		2°.2/17.6 17	
2 11	12 23.75	+ 6 11.5	2.473	3.272	11.7	20.7
2 21	12 19.13	+ 6 36.7	2.390	3.276	9.0	20.5
3 2	12 12.72	+ 7 7.2	2.331	3.280	5.9	20.3
3 12	12 5.06	+ 7 38.8	2.301	3.284	3.0	20.1
3 22	11 56.81	+ 8 7.1	2.300	3.288	2.7	20.1
4 1	11 48.75	+ 8 28.0	2.329	3.292	5.6	20.3
4 11	11 41.62	+ 8 38.5	2.386	3.295	8.6	20.5
4 21	11 35.98	+ 8 36.9	2.467	3.298	11.4	20.7
81061 2000 ET_{68}			3 20.0 236°.21		0°.2/19.8 18	
2 11	12 22.93	− 2 8.9	1.950	2.741	14.7	19.9
2 21	12 19.16	− 1 39.4	1.853	2.733	11.5	19.6
3 2	12 13.13	− 0 55.1	1.779	2.724	7.8	19.4
3 12	12 5.38	+ 0 0.3	1.730	2.715	3.5	19.1
3 22	11 56.71	+ 1 1.3	1.710	2.706	1.0	18.9
4 1	11 48.11	+ 2 1.1	1.718	2.696	5.5	19.2
4 11	11 40.59	+ 2 53.0	1.754	2.686	9.7	19.4
4 21	11 34.89	+ 3 32.1	1.813	2.675	13.4	19.6
498885 2008 YW_{122}			3 20.0 108°.08		2°.5/17.1 18	
2 11	12 21.14	+ 4 56.9	2.333	3.137	12.1	21.9
2 21	12 17.17	+ 5 52.1	2.261	3.151	9.2	21.7
3 2	12 11.43	+ 6 54.8	2.214	3.164	6.1	21.5
3 12	12 4.47	+ 7 59.6	2.194	3.178	3.1	21.3
3 22	11 56.96	+ 9 0.7	2.204	3.190	3.1	21.3
4 1	11 49.69	+ 9 52.5	2.244	3.203	6.0	21.6
4 11	11 43.39	+10 31.0	2.310	3.215	9.0	21.8
4 21	11 38.58	+10 54.1	2.401	3.228	11.8	22.0
140403 2001 TN_{71}			3 20.0 68°.34		1°.2/18.9 18	
2 11	12 22.49	+ 0 2.3	1.701	2.509	15.8	20.0
2 21	12 18.90	+ 0 40.9	1.630	2.520	12.2	19.8
3 2	12 12.91	+ 1 33.7	1.580	2.531	8.0	19.6
3 12	12 5.23	+ 2 35.0	1.556	2.542	3.5	19.3
3 22	11 56.77	+ 3 37.9	1.559	2.553	1.9	19.2
4 1	11 48.62	+ 4 34.7	1.589	2.564	6.2	19.5
4 11	11 41.80	+ 5 19.1	1.646	2.576	10.4	19.8
4 21	11 36.99	+ 5 47.4	1.726	2.587	14.1	20.0
31300 1998 FZ_{82}			3 20.0 187°.71		0°.9/19.1 18	
2 11	12 25.09	+ 2 33.1	2.541	3.327	11.8	18.3
2 21	12 20.16	+ 2 38.9	2.448	3.326	9.1	18.1
3 2	12 13.42	+ 2 51.5	2.380	3.326	6.1	17.9
3 12	12 5.39	+ 3 7.8	2.340	3.325	2.7	17.6
3 22	11 56.73	+ 3 24.4	2.330	3.324	1.4	17.5
4 1	11 48.20	+ 3 37.7	2.350	3.323	4.7	17.8
4 11	11 40.56	+ 3 44.5	2.399	3.321	7.9	18.0
4 21	11 34.39	+ 3 42.8	2.473	3.320	10.8	18.2

328793 2009 VA_5 3 20.0 256.°29 3.°3/23.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.20	−11 40.6	2.094	2.842	15.2	22.1
2 21	12 18.60	−11 38.0	1.982	2.825	12.5	21.9
3 2	12 12.79	−11 16.0	1.890	2.808	9.3	21.6
3 12	12 5.26	−10 35.0	1.824	2.791	5.8	21.4
3 22	11 56.73	− 9 37.8	1.785	2.773	3.3	21.2
4 1	11 48.16	− 8 29.5	1.775	2.755	5.0	21.3
4 11	11 40.53	− 7 17.4	1.792	2.736	8.7	21.4
4 21	11 34.62	− 6 8.8	1.834	2.717	12.3	21.6

172101 2002 FR_{14} 3 20.0 284.°30 1.°2/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.05	− 0 6.3	1.589	2.400	16.6	20.4
2 21	12 19.95	+ 0 25.4	1.486	2.378	13.1	20.1
3 2	12 14.09	+ 1 13.9	1.404	2.355	8.8	19.8
3 12	12 5.98	+ 2 14.8	1.347	2.333	3.9	19.4
3 22	11 56.54	+ 3 21.0	1.316	2.311	2.0	19.3
4 1	11 47.00	+ 4 23.8	1.312	2.288	7.1	19.5
4 11	11 38.69	+ 5 14.6	1.333	2.265	12.1	19.7
4 21	11 32.62	+ 5 47.6	1.376	2.242	16.6	19.9

377444 2004 TS_{323} 3 20.0 90.°58 2.°7/17.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.16	+ 5 30.6	1.951	2.763	13.9	21.1
2 21	12 19.16	+ 6 10.3	1.873	2.767	10.7	20.8
3 2	12 12.99	+ 6 58.2	1.819	2.771	7.1	20.6
3 12	12 5.24	+ 7 48.4	1.791	2.775	3.6	20.4
3 22	11 56.77	+ 8 34.7	1.791	2.779	3.4	20.4
4 1	11 48.53	+ 9 11.0	1.820	2.783	6.8	20.6
4 11	11 41.46	+ 9 33.1	1.875	2.787	10.4	20.9
4 21	11 36.20	+ 9 38.9	1.952	2.791	13.6	21.1

426658 2013 TW_1 3 20.0 183.°27 2.°3/22.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.47	− 9 17.4	2.087	2.848	14.8	21.2
2 21	12 17.84	− 9 4.3	1.993	2.848	12.0	21.0
3 2	12 12.13	− 8 33.2	1.921	2.848	8.6	20.8
3 12	12 4.88	− 7 45.8	1.874	2.848	4.9	20.6
3 22	11 56.86	− 6 46.2	1.855	2.848	2.3	20.4
4 1	11 48.95	− 5 40.1	1.865	2.847	4.6	20.5
4 11	11 42.07	− 4 34.4	1.903	2.846	8.3	20.7
4 21	11 36.88	− 3 35.5	1.966	2.845	11.8	21.0

145679 2402 $T\text{-}_2$ 3 20.0 120.°00 0.°7/20.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.87	− 4 32.8	2.155	2.924	14.1	20.9
2 21	12 20.94	− 4 12.3	2.079	2.944	11.1	20.7
3 2	12 14.00	− 3 38.0	2.026	2.963	7.6	20.5
3 12	12 5.65	− 2 53.0	1.999	2.981	3.7	20.3
3 22	11 56.69	− 2 1.8	2.003	2.998	0.9	20.1
4 1	11 48.02	− 1 10.2	2.036	3.015	4.6	20.4
4 11	11 40.48	− 0 23.6	2.097	3.031	8.2	20.7
4 21	11 34.66	+ 0 13.8	2.184	3.047	11.5	20.9

278966 2008 UY_{105} 3 20.0 188.°48 1.°8/22.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.69	− 8 21.0	2.145	2.910	14.3	21.5
2 21	12 17.16	− 8 1.3	2.051	2.910	11.5	21.3
3 2	12 11.65	− 7 24.2	1.979	2.909	8.2	21.1
3 12	12 4.65	− 6 32.1	1.933	2.909	4.5	20.8
3 22	11 56.92	− 5 28.9	1.914	2.908	1.8	20.7
4 1	11 49.30	− 4 20.8	1.925	2.907	4.5	20.8
4 11	11 42.67	− 3 14.5	1.964	2.906	8.2	21.1
4 21	11 37.65	− 2 15.8	2.028	2.905	11.6	21.3

174454 2002 XJ_{82} 3 20.0 10.°13 3.°2/22.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.52	− 9 10.1	1.998	2.761	15.3	19.7
2 21	12 18.76	− 9 35.6	1.909	2.762	12.5	19.5
3 2	12 12.80	− 9 45.3	1.840	2.764	9.1	19.2
3 12	12 5.21	− 9 39.7	1.797	2.766	5.6	19.0
3 22	11 56.78	− 9 21.0	1.780	2.769	3.2	18.9
4 1	11 48.48	− 8 53.1	1.791	2.771	5.0	19.0
4 11	11 41.27	− 8 21.7	1.830	2.775	8.5	19.2
4 21	11 35.84	− 7 52.2	1.892	2.778	11.9	19.4

344349 2001 WX_{54} 3 20.0 41.°60 8.°9/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.14	−31 31.4	2.133	2.759	18.1	20.2
2 21	12 15.45	−31 45.2	2.048	2.772	16.2	20.0
3 2	12 10.59	−31 29.2	1.978	2.786	14.0	19.9
3 12	12 4.18	−30 40.7	1.927	2.799	11.8	19.8
3 22	11 57.04	−29 20.3	1.899	2.814	9.8	19.7
4 1	11 50.15	−27 32.4	1.896	2.828	9.0	19.7
4 11	11 44.41	−25 25.5	1.920	2.843	9.6	19.7
4 21	11 40.49	−23 10.0	1.969	2.858	11.4	19.9

163792 2003 QV_{45} 3 20.0 139.°01 1.°7/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.48	+ 2 4.2	1.948	2.745	14.5	20.8
2 21	12 21.67	+ 2 45.9	1.872	2.757	11.2	20.6
3 2	12 14.62	+ 3 38.5	1.820	2.769	7.3	20.3
3 12	12 5.98	+ 4 36.7	1.795	2.780	3.3	20.1
3 22	11 56.61	+ 5 34.1	1.798	2.790	2.3	20.1
4 1	11 47.54	+ 6 24.1	1.831	2.800	6.1	20.3
4 11	11 39.71	+ 7 1.6	1.891	2.809	10.0	20.6
4 21	11 33.78	+ 7 23.6	1.974	2.817	13.3	20.8

173783 2001 SL_{77} 3 20.0 115.°76 1.°6/22.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.81	− 7 46.5	2.559	3.315	12.5	20.9
2 21	12 16.82	− 7 31.1	2.474	3.328	10.0	20.7
3 2	12 11.17	− 7 2.0	2.412	3.340	7.0	20.5
3 12	12 4.36	− 6 21.4	2.376	3.351	3.8	20.4
3 22	11 57.01	− 5 32.6	2.370	3.363	1.6	20.2
4 1	11 49.84	− 4 40.2	2.393	3.374	3.8	20.4
4 11	11 43.52	− 3 49.2	2.445	3.385	6.9	20.6
4 21	11 38.57	− 3 4.0	2.524	3.396	9.8	20.8

207375 2005 MC_{14} 3 20.0 287.°74 0.°7/19.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.62	− 0 32.1	2.184	2.980	13.1	20.6
2 21	12 16.32	+ 0 2.9	2.089	2.972	10.2	20.4
3 2	12 11.08	+ 0 50.1	2.016	2.964	6.8	20.2
3 12	12 4.41	+ 1 45.8	1.971	2.956	3.0	19.9
3 22	11 56.99	+ 2 44.5	1.954	2.948	1.4	19.8
4 1	11 49.66	+ 3 40.4	1.965	2.940	5.2	20.0
4 11	11 43.25	+ 4 27.7	2.004	2.933	8.9	20.2
4 21	11 38.40	+ 5 2.6	2.068	2.925	12.2	20.4

203522 2002 AL_{185} 3 20.0 128.°68 3.°6/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.64	+ 5 58.0	1.731	2.544	15.3	21.3
2 21	12 22.05	+ 7 1.4	1.663	2.557	11.8	21.1
3 2	12 14.99	+ 8 14.2	1.619	2.570	7.8	20.8
3 12	12 6.16	+ 9 28.7	1.600	2.583	4.2	20.7
3 22	11 56.57	+10 36.4	1.610	2.594	4.4	20.7
4 1	11 47.35	+11 29.7	1.648	2.605	7.9	20.9
4 11	11 39.54	+12 3.8	1.711	2.616	11.7	21.2
4 21	11 33.85	+12 17.0	1.797	2.626	15.0	21.4

420164 2011 GU_2 3 20.0 114.°62 4.°0/15.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.80	+ 8 16.5	2.029	2.846	13.2	20.8
2 21	12 18.01	+ 9 28.2	1.958	2.855	10.1	20.6
3 2	12 12.16	+10 46.6	1.912	2.863	6.8	20.4
3 12	12 4.86	+12 4.4	1.893	2.871	4.3	20.3
3 22	11 56.90	+13 14.2	1.902	2.879	4.8	20.3
4 1	11 49.19	+14 9.3	1.940	2.887	7.7	20.5
4 11	11 42.60	+14 45.5	2.003	2.895	10.9	20.7
4 21	11 37.74	+15 1.6	2.089	2.902	13.8	20.9

111908 2002 FY_{33} 3 20.0 269.°42 0.°6/20.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.96	− 3 36.1	1.753	2.542	16.1	20.4
2 21	12 21.22	− 3 24.3	1.644	2.520	12.9	20.1
3 2	12 14.84	− 2 55.8	1.555	2.498	8.9	19.8
3 12	12 6.31	− 2 13.1	1.492	2.475	4.3	19.5
3 22	11 56.49	− 1 20.8	1.455	2.451	1.0	19.2
4 1	11 46.54	− 0 25.9	1.447	2.427	5.9	19.5
4 11	11 37.70	+ 0 24.0	1.465	2.403	10.8	19.7
4 21	11 30.94	+ 1 2.6	1.506	2.379	15.1	19.9

365193 2009 FH_{35} 3 20.0 333.°07 3.°0/17.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.60	+ 3 51.9	1.311	2.147	18.0	20.7
2 21	12 19.15	+ 4 28.9	1.231	2.137	14.0	20.4
3 2	12 13.65	+ 5 20.2	1.171	2.128	9.3	20.1
3 12	12 5.78	+ 6 18.7	1.134	2.120	4.5	19.8
3 22	11 56.65	+ 7 15.1	1.122	2.113	3.9	19.7
4 1	11 47.69	+ 7 59.9	1.134	2.106	8.6	20.0
4 11	11 40.31	+ 8 25.6	1.170	2.100	13.7	20.2
4 21	11 35.50	+ 8 29.0	1.225	2.094	18.1	20.5

66736 1999 TB_{118} 3 20.0 86.°06 1.°9/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.40	− 7 6.8	1.979	2.752	15.1	19.1
2 21	12 18.62	− 7 2.0	1.894	2.757	12.1	18.9
3 2	12 12.67	− 6 40.7	1.830	2.762	8.5	18.7
3 12	12 5.14	− 6 5.2	1.791	2.768	4.6	18.5
3 22	11 56.83	− 5 19.2	1.779	2.773	1.9	18.3
4 1	11 48.71	− 4 28.5	1.797	2.779	4.7	18.5
4 11	11 41.70	− 3 39.4	1.841	2.784	8.6	18.7
4 21	11 36.48	− 2 57.4	1.910	2.789	12.1	19.0

114576 2003 BG_{73} 3 20.0 289.°63 3.°0/16.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.00	+ 7 6.1	2.291	3.104	12.1	19.8
2 21	12 16.51	+ 7 54.5	2.201	3.095	9.3	19.6
3 2	12 11.16	+ 8 49.8	2.135	3.086	6.2	19.4
3 12	12 4.43	+ 9 46.4	2.096	3.077	3.5	19.2
3 22	11 57.01	+10 38.6	2.086	3.068	3.7	19.2
4 1	11 49.69	+11 20.9	2.104	3.060	6.6	19.3
4 11	11 43.28	+11 48.9	2.149	3.051	9.8	19.5
4 21	11 38.36	+12 0.9	2.217	3.043	12.7	19.7

38460 1999 TH_{13} 3 20.0 296.°93 4.°0/16.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.58	+ 9 39.2	1.829	2.645	14.5	18.6
2 21	12 22.26	+10 4.2	1.731	2.625	11.3	18.4
3 2	12 15.37	+10 33.8	1.656	2.606	7.8	18.1
3 12	12 6.48	+11 2.1	1.606	2.587	4.6	17.9
3 22	11 56.48	+11 22.5	1.585	2.567	4.7	17.9
4 1	11 46.53	+11 29.4	1.590	2.548	8.1	18.0
4 11	11 37.78	+11 19.0	1.622	2.529	12.1	18.2
4 21	11 31.10	+10 50.5	1.676	2.510	15.7	18.4

92517 2000 NZ_{25} 3 20.0 168°.72 2°.5/22.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.49	− 8 36.7	1.834	2.598	16.5	20.0
2 21	12 22.03	− 8 36.5	1.745	2.601	13.3	19.8
3 2	12 15.09	− 8 17.6	1.677	2.605	9.6	19.5
3 12	12 6.30	− 7 41.4	1.633	2.607	5.4	19.3
3 22	11 56.55	− 6 51.7	1.617	2.609	2.5	19.1
4 1	11 46.97	− 5 54.7	1.629	2.611	5.2	19.3
4 11	11 38.64	− 4 57.9	1.669	2.612	9.4	19.5
4 21	11 32.37	− 4 7.7	1.733	2.612	13.2	19.7

64412 2001 UV_{168} 3 20.0 142°.13 3°.8/16.3 18

2 11	12 28.34	+10 28.0	2.222	3.025	12.7	19.3
2 21	12 22.82	+11 3.7	2.148	3.035	9.8	19.1
3 2	12 15.24	+11 42.3	2.099	3.045	6.7	18.9
3 12	12 6.23	+12 18.0	2.078	3.055	4.1	18.8
3 22	11 56.59	+12 45.6	2.086	3.063	4.4	18.8
4 1	11 47.25	+13 0.6	2.123	3.072	7.1	19.0
4 11	11 39.08	+13 0.5	2.188	3.080	10.1	19.2
4 21	11 32.68	+12 45.1	2.276	3.087	12.9	19.4

192681 1999 SJ_{21} 3 20.0 122°.17 0°.2/20.3 17

2 11	12 23.26	− 2 34.8	2.109	2.893	13.9	21.0
2 21	12 19.09	− 2 18.2	2.025	2.900	10.9	20.8
3 2	12 12.88	− 1 48.9	1.964	2.907	7.4	20.6
3 12	12 5.21	− 1 10.2	1.930	2.913	3.4	20.4
3 22	11 56.83	− 0 26.5	1.924	2.920	0.8	20.2
4 1	11 48.65	+ 0 16.7	1.947	2.926	4.8	20.5
4 11	11 41.54	+ 0 54.2	1.997	2.932	8.6	20.7
4 21	11 36.12	+ 1 21.9	2.073	2.938	11.9	20.9

506267 2016 QR_{59} 3 20.0 238°.02 2°.6/23.2 17

2 11	12 19.46	−10 44.4	2.638	3.380	12.5	22.0
2 21	12 15.88	−10 40.8	2.535	3.376	10.2	21.8
3 2	12 10.64	−10 22.5	2.454	3.372	7.5	21.6
3 12	12 4.17	− 9 50.6	2.400	3.367	4.6	21.4
3 22	11 57.08	− 9 7.6	2.374	3.362	2.6	21.3
4 1	11 50.06	− 8 17.4	2.378	3.358	4.0	21.4
4 11	11 43.79	− 7 25.0	2.410	3.353	6.8	21.5
4 21	11 38.84	− 6 35.3	2.469	3.348	9.7	21.7

86782 2000 GZ_{92} 3 20.0 285°.98 1°.6/18.8 18

2 11	12 22.11	− 0 8.6	1.415	2.235	17.8	19.2
2 21	12 19.46	+ 0 34.5	1.323	2.220	14.0	18.9
3 2	12 13.87	+ 1 37.2	1.251	2.204	9.3	18.6
3 12	12 5.92	+ 2 53.7	1.202	2.189	4.2	18.3
3 22	11 56.62	+ 4 15.3	1.179	2.174	2.5	18.1
4 1	11 47.33	+ 5 31.2	1.183	2.158	7.8	18.4
4 11	11 39.45	+ 6 31.7	1.210	2.143	13.0	18.6
4 21	11 34.02	+ 7 10.6	1.258	2.128	17.7	18.9

369304 2009 SM_{45} 3 20.0 158°.61 0°.6/20.7 17

2 11	12 25.11	− 3 37.2	2.265	3.037	13.5	21.7
2 21	12 20.40	− 3 26.3	2.177	3.043	10.6	21.5
3 2	12 13.70	− 3 3.0	2.111	3.049	7.2	21.3
3 12	12 5.57	− 2 30.1	2.072	3.054	3.5	21.0
3 22	11 56.75	− 1 51.2	2.062	3.058	0.8	20.8
4 1	11 48.10	− 1 11.3	2.083	3.062	4.5	21.1
4 11	11 40.45	− 0 35.4	2.131	3.066	8.1	21.3
4 21	11 34.44	− 0 7.4	2.206	3.069	11.4	21.6

273098 2006 FF_{5} 3 20.0 342°.74 0°.6/19.4 17

2 11	12 15.73	− 2 55.8	1.531	2.348	16.8	20.4
2 21	12 14.13	− 2 6.7	1.443	2.338	13.2	20.1
3 2	12 10.05	− 0 56.6	1.377	2.329	8.8	19.8
3 12	12 4.08	+ 0 29.3	1.334	2.321	3.9	19.5
3 22	11 57.10	+ 2 2.6	1.318	2.313	1.5	19.3
4 1	11 50.25	+ 3 33.0	1.328	2.307	6.6	19.6
4 11	11 44.63	+ 4 50.7	1.362	2.301	11.4	19.9
4 21	11 41.08	+ 5 48.9	1.419	2.296	15.6	20.1

458801 2011 SM_{201} 3 20.0 109°.49 0°.1/20.0 18

2 11	12 28.25	− 2 32.2	1.736	2.523	16.4	22.8
2 21	12 23.23	− 2 7.8	1.668	2.544	12.8	22.6
3 2	12 15.73	− 1 28.2	1.621	2.565	8.5	22.4
3 12	12 6.51	− 0 37.7	1.600	2.584	3.9	22.1
3 22	11 56.54	+ 0 17.4	1.608	2.603	0.9	22.0
4 1	11 47.00	+ 1 10.1	1.644	2.622	5.6	22.3
4 11	11 38.90	+ 1 54.1	1.707	2.640	9.9	22.6
4 21	11 32.95	+ 2 25.1	1.794	2.657	13.5	22.9

498405 2007 YP_{49} 3 20.0 108°.05 5°.8/27.6 17

2 11	12 23.40	−21 55.1	2.755	3.419	13.7	21.3
2 21	12 18.84	−22 25.2	2.668	3.437	11.8	21.1
3 2	12 12.54	−22 36.9	2.601	3.454	9.6	21.0
3 12	12 5.02	−22 29.4	2.559	3.472	7.5	20.9
3 22	11 56.90	−22 3.3	2.543	3.489	6.0	20.8
4 1	11 48.94	−21 21.4	2.555	3.505	5.9	20.8
4 11	11 41.86	−20 28.4	2.595	3.522	7.3	20.9
4 21	11 36.20	−19 29.9	2.662	3.537	9.2	21.1

522637 2016 FE_{68} 3 20.0 45°.45 8°.3/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.66	+19 55.7	1.714	2.543	14.7	20.7
2 21	12 21.44	+21 10.9	1.656	2.548	11.9	20.5
3 2	12 14.65	+22 22.2	1.622	2.555	9.4	20.4
3 12	12 6.04	+23 19.7	1.612	2.561	8.3	20.4
3 22	11 56.66	+23 55.1	1.628	2.567	9.3	20.4
4 1	11 47.71	+24 3.3	1.669	2.574	11.7	20.6
4 11	11 40.27	+23 43.6	1.732	2.581	14.5	20.8
4 21	11 35.04	+22 58.8	1.815	2.588	17.0	21.0

67675 2000 SE_{280} 3 20.0 261°.13 4°.0/14.0 18

2 11	12 18.87	+ 9 11.1	2.640	3.452	10.7	19.7
2 21	12 15.51	+10 45.7	2.538	3.432	8.2	19.5
3 2	12 10.46	+12 28.0	2.463	3.411	5.7	19.3
3 12	12 4.13	+14 11.7	2.417	3.390	4.0	19.1
3 22	11 57.11	+15 49.6	2.401	3.368	4.8	19.2
4 1	11 50.08	+17 15.1	2.416	3.346	7.3	19.3
4 11	11 43.76	+18 23.1	2.457	3.324	10.1	19.4
4 21	11 38.72	+19 11.2	2.522	3.302	12.6	19.6

372880 2010 XO_{66} 3 20.0 50°.28 4°.7/15.7 18

2 11	12 21.78	+ 7 51.7	1.559	2.391	15.8	20.5
2 21	12 18.53	+ 9 5.6	1.500	2.404	12.1	20.3
3 2	12 12.75	+10 27.8	1.462	2.417	8.1	20.1
3 12	12 5.20	+11 49.2	1.451	2.431	5.0	20.0
3 22	11 56.88	+13 0.2	1.465	2.444	5.6	20.0
4 1	11 48.96	+13 52.8	1.506	2.459	9.0	20.2
4 11	11 42.49	+14 22.3	1.571	2.473	12.7	20.5
4 21	11 38.17	+14 28.1	1.657	2.487	16.0	20.7

138298 2000 GG_{46} 3 20.0 35°.77 2°.1/18.4 18

2 11	12 24.71	+ 3 24.5	1.467	2.288	17.2	20.0
2 21	12 21.03	+ 3 46.8	1.398	2.296	13.3	19.8
3 2	12 14.56	+ 4 20.5	1.350	2.304	8.8	19.6
3 12	12 6.07	+ 4 59.5	1.326	2.312	4.0	19.3
3 22	11 56.66	+ 5 36.8	1.328	2.321	2.8	19.2
4 1	11 47.62	+ 6 5.2	1.357	2.330	7.3	19.5
4 11	11 40.15	+ 6 19.4	1.411	2.340	11.8	19.8
4 21	11 35.05	+ 6 16.9	1.486	2.350	15.7	20.1

2178 Kazakhstania 3 20.0 173°.34 0°.4/19.7 18

2 11	12 27.91	− 1 18.3	1.749	2.540	16.1	17.7
2 21	12 23.20	− 0 53.8	1.664	2.543	12.6	17.5
3 2	12 15.90	− 0 14.5	1.600	2.546	8.5	17.2
3 12	12 6.68	+ 0 35.2	1.563	2.548	3.8	17.0
3 22	11 56.50	+ 1 29.5	1.553	2.549	1.2	16.8
4 1	11 46.52	+ 2 21.0	1.572	2.549	6.0	17.1
4 11	11 37.89	+ 3 3.1	1.618	2.549	10.5	17.3
4 21	11 31.41	+ 3 31.5	1.688	2.548	14.4	17.6

91294 1999 FD_{29} 3 20.0 28°.40 3°.5/17.8 18

2 11	12 27.16	+ 6 24.0	1.261	2.094	18.7	18.7
2 21	12 23.39	+ 6 44.9	1.196	2.100	14.5	18.4
3 2	12 16.38	+ 7 15.0	1.150	2.105	9.7	18.2
3 12	12 6.97	+ 7 46.9	1.127	2.112	4.9	17.9
3 22	11 56.45	+ 8 12.4	1.129	2.119	4.3	17.9
4 1	11 46.39	+ 8 24.2	1.156	2.126	8.8	18.1
4 11	11 38.21	+ 8 17.8	1.207	2.134	13.6	18.4
4 21	11 32.81	+ 7 52.4	1.277	2.142	17.8	18.7

42665 1998 HF_{4} 3 20.0 174°.50 3°.9/16.3 18

2 11	12 26.06	+ 7 57.7	1.905	2.717	14.2	19.8
2 21	12 21.52	+ 8 54.3	1.827	2.720	10.9	19.6
3 2	12 14.65	+ 9 58.2	1.772	2.722	7.4	19.4
3 12	12 6.07	+11 2.3	1.743	2.723	4.3	19.2
3 22	11 56.67	+11 59.1	1.743	2.724	4.6	19.2
4 1	11 47.51	+12 42.0	1.772	2.724	7.9	19.4
4 11	11 39.59	+13 6.4	1.826	2.724	11.4	19.6
4 21	11 33.62	+13 11.3	1.903	2.723	14.6	19.8

437605 2014 BE_{8} 3 20.0 33°.46 0°.5/20.6 17

2 11	12 21.73	− 2 48.5	2.093	2.880	13.9	21.1
2 21	12 17.95	− 2 42.1	2.009	2.885	11.0	20.9
3 2	12 12.16	− 2 23.3	1.947	2.890	7.4	20.7
3 12	12 4.91	− 1 54.9	1.912	2.895	3.5	20.5
3 22	11 56.96	− 1 21.1	1.905	2.900	0.8	20.2
4 1	11 49.20	− 0 46.7	1.926	2.906	4.7	20.5
4 11	11 42.47	− 0 16.8	1.974	2.912	8.4	20.8
4 21	11 37.41	+ 0 4.8	2.047	2.918	11.8	21.0

182101 2000 KM_{59} 3 20.0 286°.85 10°.5/ 9.7 17

2 11	12 28.61	+25 28.1	1.747	2.566	14.9	20.1
2 21	12 24.16	+26 53.0	1.669	2.546	12.7	19.9
3 2	12 16.79	+28 11.5	1.613	2.526	11.0	19.7
3 12	12 7.18	+29 12.2	1.581	2.505	10.5	19.7
3 22	11 56.39	+29 45.2	1.574	2.485	11.7	19.7
4 1	11 45.79	+29 44.5	1.591	2.464	14.1	19.8
4 11	11 36.70	+29 9.0	1.629	2.444	16.8	19.9
4 21	11 30.04	+28 2.7	1.684	2.423	19.4	20.0

337902 2001 XV_{70} 3 20.0 51.°00 2.°7/23.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 18.52	−11 48.8	2.054	2.810	15.2	20.2
2 21	12 15.46	−11 22.2	1.979	2.828	12.3	20.1
3 2	12 10.47	−10 35.2	1.925	2.847	8.9	19.9
3 12	12 4.12	− 9 30.5	1.896	2.866	5.3	19.7
3 22	11 57.17	− 8 12.8	1.895	2.885	2.7	19.6
4 1	11 50.49	− 6 49.0	1.922	2.904	4.5	19.7
4 11	11 44.87	− 5 26.5	1.977	2.923	7.8	20.0
4 21	11 40.87	− 4 12.1	2.057	2.943	11.1	20.2

341058 2007 HR_{12} 3 20.0 233.°71 4.°7/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.52	+14 40.6	2.611	3.414	11.0	21.7
2 21	12 21.38	+15 29.4	2.515	3.399	8.7	21.6
3 2	12 14.34	+16 19.3	2.444	3.383	6.3	21.4
3 12	12 5.90	+17 4.4	2.401	3.366	4.8	21.2
3 22	11 56.72	+17 39.5	2.388	3.348	5.4	21.3
4 1	11 47.63	+17 59.9	2.404	3.330	7.6	21.4
4 11	11 39.40	+18 3.3	2.447	3.311	10.2	21.5
4 21	11 32.68	+17 49.2	2.514	3.291	12.7	21.6

63634 2001 QU_{86} 3 20.0 147.°65 5.°8/24.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 31.97	−14 10.0	1.998	2.718	16.7	19.5
2 21	12 26.27	−15 17.6	1.904	2.722	14.0	19.3
3 2	12 17.98	−16 8.9	1.831	2.726	11.0	19.1
3 12	12 7.68	−16 41.3	1.783	2.729	7.9	18.9
3 22	11 56.28	−16 54.1	1.762	2.733	5.9	18.8
4 1	11 44.95	−16 49.1	1.770	2.736	6.7	18.8
4 11	11 34.83	−16 31.4	1.806	2.739	9.4	19.0
4 21	11 26.81	−16 7.2	1.866	2.741	12.5	19.2

271252 2003 UH_{93} 3 20.0 193.°69 1.°6/21.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.75	− 7 38.6	2.420	3.178	13.1	21.2
2 21	12 17.78	− 7 23.9	2.322	3.177	10.5	21.0
3 2	12 11.98	− 6 54.6	2.246	3.175	7.4	20.8
3 12	12 4.83	− 6 12.5	2.197	3.173	4.1	20.6
3 22	11 57.00	− 5 21.2	2.176	3.170	1.6	20.4
4 1	11 49.26	− 4 25.4	2.186	3.167	4.1	20.6
4 11	11 42.39	− 3 30.7	2.224	3.164	7.5	20.8
4 21	11 36.98	− 2 42.1	2.288	3.160	10.7	21.0

437547 2013 YK_{128} 3 20.0 305.°66 6.°1/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.77	+15 13.5	2.133	2.960	12.3	20.4
2 21	12 16.52	+16 38.2	2.057	2.954	9.7	20.3
3 2	12 11.26	+18 4.8	2.006	2.948	7.3	20.1
3 12	12 4.53	+19 25.5	1.982	2.942	6.1	20.0
3 22	11 57.08	+20 32.4	1.985	2.936	7.1	20.0
4 1	11 49.78	+21 19.4	2.015	2.930	9.5	20.2
4 11	11 43.50	+21 43.4	2.069	2.924	12.2	20.3
4 21	11 38.87	+21 44.1	2.144	2.919	14.7	20.5

43503 2001 CK_{29} 3 20.0 314.°37 6.°6/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.78	+17 59.9	2.319	3.147	11.4	17.9
2 21	12 14.88	+19 39.5	2.244	3.137	9.2	17.8
3 2	12 10.12	+21 19.7	2.194	3.128	7.3	17.6
3 12	12 4.01	+22 52.2	2.172	3.118	6.6	17.6
3 22	11 57.20	+24 9.4	2.177	3.109	7.7	17.6
4 1	11 50.51	+25 5.5	2.208	3.100	9.9	17.7
4 11	11 44.73	+25 37.4	2.264	3.092	12.3	17.9
4 21	11 40.44	+25 45.2	2.339	3.083	14.5	18.0

286405 2001 YP_{83} 3 20.0 76.°31 1.°5/21.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.89	− 5 55.5	1.437	2.229	18.9	21.0
2 21	12 22.66	− 5 44.8	1.375	2.251	15.0	20.8
3 2	12 15.60	− 5 13.5	1.332	2.272	10.3	20.6
3 12	12 6.52	− 4 25.4	1.313	2.294	5.2	20.3
3 22	11 56.61	− 3 26.7	1.320	2.315	1.6	20.1
4 1	11 47.19	− 2 26.0	1.354	2.337	5.9	20.5
4 11	11 39.47	− 1 31.7	1.414	2.358	10.6	20.8
4 21	11 34.21	− 0 49.9	1.496	2.378	14.7	21.1

459150 2012 CN_{49} 3 20.0 79.°97 3.°6/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.63	+ 6 19.5	1.582	2.402	16.2	21.8
2 21	12 22.19	+ 7 8.0	1.523	2.420	12.4	21.6
3 2	12 15.14	+ 8 4.9	1.485	2.438	8.2	21.4
3 12	12 6.28	+ 9 2.6	1.473	2.456	4.4	21.2
3 22	11 56.68	+ 9 53.1	1.488	2.474	4.3	21.2
4 1	11 47.56	+10 29.5	1.530	2.492	8.0	21.5
4 11	11 40.00	+10 47.3	1.598	2.510	11.9	21.7
4 21	11 34.69	+10 45.8	1.687	2.527	15.3	22.0

489259 2006 RV_{94} 3 20.0 184.°33 0.°7/19.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.92	+ 1 10.7	2.651	3.435	11.4	21.5
2 21	12 18.44	+ 1 25.8	2.558	3.435	8.8	21.3
3 2	12 12.29	+ 1 48.7	2.490	3.435	5.9	21.1
3 12	12 4.94	+ 2 16.5	2.450	3.435	2.6	20.9
3 22	11 56.99	+ 2 45.5	2.439	3.434	1.2	20.8
4 1	11 49.17	+ 3 11.8	2.459	3.433	4.4	21.0
4 11	11 42.17	+ 3 31.9	2.507	3.432	7.6	21.2
4 21	11 36.52	+ 3 43.3	2.581	3.430	10.4	21.4

335976 2007 TJ_{224} 3 20.0 291.°76 3.°4/23.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.21	− 9 53.8	1.991	2.749	15.5	20.5
2 21	12 19.47	−10 15.7	1.888	2.738	12.7	20.3
3 2	12 13.44	−10 21.1	1.806	2.728	9.4	20.1
3 12	12 5.62	−10 10.0	1.749	2.717	5.9	19.8
3 22	11 56.81	− 9 44.3	1.718	2.706	3.4	19.7
4 1	11 48.00	− 9 8.3	1.716	2.695	5.2	19.8
4 11	11 40.21	− 8 28.0	1.740	2.685	8.9	19.9
4 21	11 34.24	− 7 49.3	1.789	2.675	12.5	20.1

274586 2008 TW_{7} 3 20.0 197.°84 0.°2/19.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.84	− 2 40.0	2.218	3.004	13.3	21.0
2 21	12 17.22	− 2 0.4	2.126	3.002	10.4	20.8
3 2	12 11.67	− 1 6.9	2.056	3.000	7.0	20.6
3 12	12 4.72	− 0 3.3	2.014	2.998	3.1	20.3
3 22	11 57.05	+ 1 5.1	2.000	2.996	0.9	20.1
4 1	11 49.51	+ 2 11.9	2.016	2.993	4.9	20.4
4 11	11 42.90	+ 3 11.0	2.060	2.990	8.6	20.6
4 21	11 37.85	+ 3 58.1	2.128	2.987	11.9	20.8

246416 2007 VA_{4} 3 20.0 267.°00 4.°0/23.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.15	−11 38.6	1.656	2.421	17.9	20.8
2 21	12 19.94	−11 48.4	1.556	2.408	14.8	20.6
3 2	12 14.05	−11 35.5	1.474	2.396	11.1	20.3
3 12	12 6.00	−10 59.8	1.416	2.383	7.0	20.1
3 22	11 56.71	−10 3.9	1.383	2.371	4.1	19.8
4 1	11 47.39	− 8 54.0	1.377	2.358	6.0	19.9
4 11	11 39.31	− 7 39.3	1.396	2.345	10.3	20.1
4 21	11 33.41	− 6 28.9	1.439	2.332	14.5	20.3

500426 2012 TP_{142} 3 20.0 98.°07 2.°0/17.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.83	+ 3 24.3	2.530	3.330	11.4	21.9
2 21	12 16.03	+ 4 28.2	2.461	3.349	8.7	21.8
3 2	12 10.64	+ 5 40.1	2.417	3.367	5.7	21.6
3 12	12 4.16	+ 6 54.9	2.402	3.386	2.8	21.4
3 22	11 57.22	+ 8 6.9	2.416	3.404	2.6	21.5
4 1	11 50.50	+ 9 10.6	2.461	3.422	5.4	21.7
4 11	11 44.66	+10 1.8	2.533	3.439	8.3	21.9
4 21	11 40.16	+10 38.3	2.630	3.457	10.9	22.1

461070 2014 YT_{37} 3 20.1 146.°00 3.°3/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.45	+ 7 48.9	1.878	2.690	14.3	20.4
2 21	12 21.86	+ 8 17.0	1.798	2.691	11.1	20.2
3 2	12 14.91	+ 8 50.9	1.741	2.691	7.4	20.0
3 12	12 6.22	+ 9 24.8	1.710	2.692	4.1	19.8
3 22	11 56.71	+ 9 52.6	1.707	2.693	4.0	19.8
4 1	11 47.45	+10 8.8	1.732	2.693	7.3	20.0
4 11	11 39.45	+10 10.1	1.784	2.694	11.0	20.2
4 21	11 33.43	+ 9 55.3	1.858	2.694	14.3	20.4

506017 2015 HG_{80} 3 20.1 236.°76 3.°0/16.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.85	+ 8 53.5	2.602	3.405	11.0	21.6
2 21	12 18.48	+ 9 27.0	2.509	3.398	8.5	21.4
3 2	12 12.37	+10 4.5	2.441	3.390	5.8	21.2
3 12	12 5.01	+10 41.4	2.402	3.381	3.4	21.1
3 22	11 57.02	+11 13.2	2.392	3.373	3.5	21.1
4 1	11 49.14	+11 35.6	2.411	3.364	6.1	21.2
4 11	11 42.08	+11 45.7	2.458	3.355	8.9	21.4
4 21	11 36.43	+11 42.2	2.529	3.346	11.6	21.5

431212 2006 SJ_{206} 3 20.1 191.°85 2.°5/17.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.39	+ 7 18.8	2.624	3.423	11.1	21.2
2 21	12 18.83	+ 7 47.2	2.535	3.422	8.5	21.0
3 2	12 12.56	+ 8 20.2	2.472	3.420	5.7	20.8
3 12	12 5.08	+ 8 53.5	2.437	3.419	3.0	20.6
3 22	11 57.01	+ 9 22.9	2.432	3.417	3.0	20.6
4 1	11 49.08	+ 9 44.4	2.456	3.415	5.6	20.8
4 11	11 42.01	+ 9 55.0	2.509	3.413	8.5	20.9
4 21	11 36.32	+ 9 53.3	2.586	3.410	11.1	21.1

437303 2013 CJ_{15} 3 20.1 145.°00 2.°1/16.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.41	+ 5 54.1	3.125	3.924	9.5	21.8
2 21	12 14.70	+ 6 45.9	3.044	3.931	7.2	21.6
3 2	12 9.67	+ 7 43.0	2.989	3.939	4.8	21.5
3 12	12 3.72	+ 8 41.2	2.964	3.946	2.5	21.3
3 22	11 57.34	+ 9 36.5	2.968	3.952	2.6	21.3
4 1	11 51.10	+10 24.6	3.003	3.959	4.9	21.5
4 11	11 45.53	+11 2.5	3.066	3.965	7.3	21.7
4 21	11 41.04	+11 28.4	3.155	3.971	9.5	21.8

285983 2001 RU_{145} 3 20.1 130.°10 2.°8/23.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.53	−10 21.2	2.634	3.368	12.7	21.2
2 21	12 19.71	−10 38.0	2.543	3.378	10.4	21.0
3 2	12 13.16	−10 41.4	2.475	3.388	7.6	20.9
3 12	12 5.36	−10 32.1	2.434	3.398	4.8	20.7
3 22	11 56.95	−10 12.0	2.422	3.408	2.9	20.6
4 1	11 48.68	− 9 44.3	2.439	3.417	4.1	20.7
4 11	11 41.28	− 9 13.3	2.486	3.426	6.9	20.9
4 21	11 35.30	− 8 43.1	2.560	3.434	9.6	21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
203390 2001 XQ_{127}			3 20.1 244°.82		2°.0/21.7 17	
	h m	° ′			°	m
2 11	12 24.28	− 7 24.8	1.659	2.439	17.3	20.7
2 21	12 20.76	− 7 14.5	1.560	2.428	14.0	20.5
3 2	12 14.56	− 6 43.5	1.482	2.418	9.9	20.2
3 12	12 6.23	− 5 53.5	1.428	2.406	5.4	19.9
3 22	11 56.71	− 4 49.2	1.400	2.395	2.0	19.7
4 1	11 47.20	− 3 38.0	1.400	2.383	5.7	19.9
4 11	11 38.94	− 2 29.1	1.426	2.370	10.5	20.1
4 21	11 32.87	− 1 30.2	1.476	2.358	14.8	20.3
432534 2010 GT_{125}			3 20.1 287°.16		0°.1/20.1 17	
2 11	12 18.38	− 3 56.8	2.164	2.952	13.5	22.0
2 21	12 15.48	− 3 13.5	2.061	2.938	10.7	21.8
3 2	12 10.63	− 2 14.0	1.980	2.924	7.2	21.5
3 12	12 4.31	− 1 2.1	1.926	2.910	3.3	21.3
3 22	11 57.19	+ 0 17.0	1.900	2.896	0.8	21.0
4 1	11 50.12	+ 1 36.1	1.903	2.882	4.9	21.3
4 11	11 43.92	+ 2 48.4	1.934	2.868	8.8	21.5
4 21	11 39.26	+ 3 48.4	1.990	2.854	12.3	21.7
503113 2015 FV_{323}			3 20.1 155°.32		4°.2/14.3 17	
2 11	12 21.38	+12 56.5	2.707	3.518	10.5	21.6
2 21	12 17.22	+13 57.9	2.633	3.523	8.1	21.4
3 2	12 11.45	+15 1.0	2.585	3.529	5.8	21.3
3 12	12 4.56	+16 0.4	2.566	3.534	4.3	21.2
3 22	11 57.16	+16 50.7	2.576	3.538	4.9	21.2
4 1	11 49.93	+17 27.6	2.614	3.543	7.0	21.4
4 11	11 43.55	+17 48.7	2.680	3.547	9.4	21.5
4 21	11 38.49	+17 53.2	2.768	3.550	11.6	21.7
372483 2009 SE_{211}			3 20.1 222°.06		2°.2/18.2 17	
2 11	12 27.44	+ 5 9.9	1.986	2.787	14.1	20.8
2 21	12 22.58	+ 5 27.0	1.896	2.783	10.9	20.6
3 2	12 15.40	+ 5 51.3	1.829	2.778	7.3	20.4
3 12	12 6.48	+ 6 18.2	1.789	2.773	3.5	20.1
3 22	11 56.68	+ 6 42.6	1.777	2.768	2.8	20.0
4 1	11 47.04	+ 6 59.3	1.795	2.763	6.4	20.3
4 11	11 38.56	+ 7 4.3	1.839	2.757	10.3	20.5
4 21	11 31.99	+ 6 56.0	1.907	2.751	13.7	20.7
199474 2006 DD_{66}			3 20.1 293°.34		7°.5/12.7 18	
2 11	12 25.69	+19 1.2	1.911	2.734	13.7	19.7
2 21	12 21.44	+20 4.0	1.831	2.721	11.1	19.5
3 2	12 14.74	+21 5.0	1.774	2.709	8.7	19.3
3 12	12 6.20	+21 55.5	1.744	2.696	7.5	19.2
3 22	11 56.75	+22 27.6	1.739	2.684	8.4	19.2
4 1	11 47.50	+22 35.7	1.760	2.672	10.9	19.3
4 11	11 39.51	+22 18.1	1.806	2.660	13.7	19.5
4 21	11 33.55	+21 36.3	1.871	2.648	16.5	19.7
417258 2005 YK_{245}			3 20.1 152°.71		4°.0/15.9 18	
2 11	12 23.34	+ 8 47.0	2.021	2.836	13.3	21.3
2 21	12 19.29	+ 9 44.5	1.944	2.839	10.3	21.1
3 2	12 13.11	+10 47.9	1.892	2.842	7.0	20.9
3 12	12 5.39	+11 50.6	1.866	2.845	4.3	20.7
3 22	11 56.96	+12 45.7	1.869	2.847	4.7	20.7
4 1	11 48.75	+13 26.9	1.900	2.850	7.7	20.9
4 11	11 41.67	+13 50.3	1.957	2.852	10.9	21.1
4 21	11 36.36	+13 54.8	2.036	2.854	13.9	21.3
162517 2000 QA_{107}			3 20.1 208°.35		0°.1/20.2 18	
2 11	12 18.81	− 3 54.2	2.618	3.394	11.8	20.7
2 21	12 15.37	− 3 12.8	2.520	3.390	9.2	20.5
3 2	12 10.31	− 2 18.5	2.446	3.387	6.2	20.3
3 12	12 4.09	− 1 14.6	2.400	3.383	2.9	20.0
3 22	11 57.27	− 0 5.7	2.383	3.379	0.6	19.8
4 1	11 50.55	+ 1 3.1	2.396	3.374	4.1	20.1
4 11	11 44.58	+ 2 6.2	2.439	3.370	7.4	20.3
4 21	11 39.90	+ 2 59.6	2.507	3.365	10.3	20.5
492204 2013 SD			3 20.1 170°.56		8°.7/10.8 16	
2 11	12 33.03	+28 6.2	2.327	3.119	12.5	20.9
2 21	12 26.54	+29 3.8	2.265	3.122	10.7	20.8
3 2	12 17.77	+29 51.7	2.228	3.124	9.2	20.7
3 12	12 7.44	+30 22.2	2.217	3.126	8.7	20.7
3 22	11 56.48	+30 29.5	2.232	3.127	9.5	20.7
4 1	11 45.96	+30 10.9	2.274	3.129	11.1	20.9
4 11	11 36.80	+29 27.2	2.340	3.129	13.1	21.0
4 21	11 29.67	+28 21.7	2.426	3.130	15.0	21.1
65502 2856 P–L			3 20.1 30°.09		1°.4/18.7 18	
2 11	12 21.76	+ 2 45.0	2.075	2.879	13.4	18.8
2 21	12 17.97	+ 3 5.5	1.996	2.885	10.4	18.6
3 2	12 12.18	+ 3 34.9	1.941	2.891	6.8	18.4
3 12	12 4.96	+ 4 8.7	1.912	2.898	3.1	18.1
3 22	11 57.07	+ 4 42.2	1.912	2.905	2.0	18.1
4 1	11 49.40	+ 5 10.2	1.940	2.912	5.5	18.3
4 11	11 42.80	+ 5 28.5	1.994	2.920	9.1	18.5
4 21	11 37.87	+ 5 34.8	2.073	2.927	12.3	18.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
298948 2004 TN_{295}			3 20.1 137°.51		0°.5/19.6 18	
	h m	° ′			°	m
2 11	12 27.17	− 1 8.7	1.765	2.558	15.9	21.4
2 21	12 22.52	− 0 42.9	1.688	2.568	12.4	21.2
3 2	12 15.40	− 0 2.8	1.632	2.578	8.3	21.0
3 12	12 6.47	+ 0 47.0	1.602	2.587	3.7	20.7
3 22	11 56.71	+ 1 40.4	1.600	2.595	1.2	20.6
4 1	11 47.23	+ 2 30.5	1.627	2.604	5.9	20.9
4 11	11 39.11	+ 3 11.1	1.680	2.611	10.2	21.2
4 21	11 33.08	+ 3 37.9	1.757	2.618	13.9	21.4
326403 2001 SQ_{128}			3 20.1 208°.24		0°.4/19.5 17	
2 11	12 21.42	− 3 40.7	2.257	3.036	13.3	22.2
2 21	12 17.69	− 2 36.8	2.157	3.031	10.4	21.9
3 2	12 12.03	− 1 16.4	2.081	3.024	7.0	21.7
3 12	12 4.93	+ 0 16.1	2.032	3.017	3.1	21.5
3 22	11 57.07	+ 1 54.3	2.014	3.009	1.1	21.3
4 1	11 49.30	+ 3 30.6	2.026	3.001	5.1	21.5
4 11	11 42.43	+ 4 57.7	2.067	2.992	8.9	21.8
4 21	11 37.10	+ 6 10.1	2.133	2.982	12.2	22.0
209925 2005 WH_{74}			3 20.1 105°.66		15°.8/ 1.4 18	
2 11	12 32.61	−31 16.0	1.327	1.988	26.1	20.0
2 21	12 28.61	−33 29.7	1.258	1.999	23.8	19.8
3 2	12 20.61	−35 9.8	1.202	2.011	21.2	19.7
3 12	12 9.26	−36 5.6	1.161	2.022	18.6	19.5
3 22	11 55.98	−36 10.1	1.139	2.033	16.6	19.4
4 1	11 42.80	−35 22.7	1.136	2.044	15.8	19.4
4 11	11 31.77	−33 53.3	1.154	2.054	16.5	19.5
4 21	11 24.26	−31 57.4	1.192	2.064	18.3	19.6
163999 2003 UR_{165}			3 20.1 54°.79		0°.4/20.5 17	
2 11	12 21.21	− 3 39.3	2.019	2.806	14.4	21.0
2 21	12 17.68	− 3 18.2	1.933	2.809	11.3	20.8
3 2	12 12.08	− 2 42.7	1.869	2.812	7.7	20.6
3 12	12 4.96	− 1 56.0	1.831	2.814	3.6	20.3
3 22	11 57.09	− 1 3.0	1.821	2.817	0.8	20.1
4 1	11 49.39	− 0 9.7	1.840	2.820	4.9	20.4
4 11	11 42.74	+ 0 37.8	1.886	2.823	8.8	20.6
4 21	11 37.81	+ 1 14.9	1.956	2.826	12.3	20.8
178886 2001 OD_{24}			3 20.1 169°.29		1°.4/18.4 18	
2 11	12 25.14	+ 2 16.0	2.517	3.302	11.9	21.4
2 21	12 20.23	+ 2 54.3	2.429	3.308	9.2	21.2
3 2	12 13.53	+ 3 41.3	2.366	3.312	6.0	21.0
3 12	12 5.55	+ 4 32.7	2.332	3.316	2.7	20.8
3 22	11 56.96	+ 5 23.8	2.327	3.320	1.9	20.8
4 1	11 48.53	+ 6 9.6	2.354	3.322	5.1	21.0
4 11	11 41.01	+ 6 45.9	2.409	3.323	8.3	21.2
4 21	11 34.96	+ 7 10.0	2.490	3.324	11.2	21.4
160713 2000 QQ_{96}			3 20.1 214°.09		0°.8/20.7 17	
2 11	12 30.22	− 2 38.4	1.936	2.711	15.3	20.5
2 21	12 24.94	− 2 44.3	1.835	2.703	12.2	20.3
3 2	12 17.13	− 2 37.7	1.757	2.696	8.4	20.1
3 12	12 7.35	− 2 20.7	1.705	2.687	4.1	19.8
3 22	11 56.50	− 1 56.9	1.682	2.678	1.0	19.5
4 1	11 45.69	− 1 31.3	1.689	2.668	5.3	19.8
4 11	11 36.06	− 1 9.1	1.723	2.657	9.7	20.0
4 21	11 28.45	− 0 54.7	1.782	2.646	13.6	20.3
420834 2013 JX_{10}			3 20.1 284°.09		4°.5/16.3 17	
2 11	12 25.17	+ 7 55.8	1.605	2.429	15.8	21.7
2 21	12 21.68	+ 8 48.6	1.505	2.404	12.4	21.4
3 2	12 15.33	+ 9 51.9	1.426	2.379	8.5	21.1
3 12	12 6.68	+10 58.0	1.373	2.354	5.1	20.9
3 22	11 56.65	+11 57.9	1.346	2.328	5.4	20.8
4 1	11 46.53	+12 42.4	1.346	2.302	9.4	21.0
4 11	11 37.67	+13 5.1	1.369	2.276	13.9	21.2
4 21	11 31.10	+13 3.5	1.414	2.250	18.0	21.3
417700 2007 BU_{63}			3 20.1 117°.85		2°.7/16.9 18	
2 11	12 23.94	+ 4 27.9	2.141	2.944	13.1	21.6
2 21	12 19.50	+ 5 37.5	2.074	2.963	10.0	21.4
3 2	12 13.10	+ 6 56.0	2.032	2.982	6.6	21.2
3 12	12 5.35	+ 8 16.8	2.018	3.001	3.4	21.0
3 22	11 57.03	+ 9 32.9	2.033	3.018	3.4	21.1
4 1	11 49.02	+10 37.8	2.078	3.035	6.5	21.3
4 11	11 42.11	+11 26.7	2.150	3.052	9.8	21.5
4 21	11 36.87	+11 57.7	2.245	3.068	12.6	21.7
330048 2005 UU_{328}			3 20.1 195°.87		1°.9/18.2 17	
2 11	12 24.28	+ 3 12.5	2.092	2.892	13.5	22.0
2 21	12 20.01	+ 3 49.6	2.003	2.890	10.4	21.8
3 2	12 13.62	+ 4 36.3	1.939	2.888	6.9	21.6
3 12	12 5.67	+ 5 27.9	1.901	2.886	3.2	21.3
3 22	11 56.94	+ 6 18.5	1.892	2.883	2.5	21.3
4 1	11 48.36	+ 7 2.1	1.911	2.879	6.1	21.5
4 11	11 40.83	+ 7 33.8	1.959	2.876	9.8	21.7
4 21	11 35.04	+ 7 51.0	2.030	2.872	13.0	21.9

126707 2002 CQ_{241} 3 20.1 146°.72 6°.2/25.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.01	−17 3.3	2.046	2.759	16.5	19.6
2 21	12 21.63	−17 52.7	1.951	2.761	14.0	19.5
3 2	12 14.88	−18 22.8	1.876	2.763	11.2	19.3
3 12	12 6.32	−18 31.6	1.825	2.764	8.3	19.1
3 22	11 56.77	−18 19.1	1.800	2.766	6.3	19.0
4 1	11 47.29	−17 48.1	1.802	2.767	6.7	19.0
4 11	11 38.92	−17 4.6	1.832	2.768	9.1	19.1
4 21	11 32.45	−16 15.5	1.886	2.769	12.0	19.3

272639 2005 WB_{81} 3 20.1 10°.84 1°.7/21.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.92	− 6 40.9	1.793	2.575	16.1	20.9
2 21	12 18.56	− 6 33.8	1.705	2.575	12.9	20.7
3 2	12 12.85	− 6 8.7	1.639	2.575	9.1	20.4
3 12	12 5.38	− 5 28.0	1.597	2.576	4.8	20.2
3 22	11 57.01	− 4 36.2	1.582	2.577	1.8	20.0
4 1	11 48.80	− 3 39.7	1.595	2.578	5.1	20.2
4 11	11 41.77	− 2 45.8	1.635	2.579	9.4	20.4
4 21	11 36.69	− 2 0.6	1.698	2.580	13.2	20.7

503069 2015 FG_{214} 3 20.1 142°.88 4°.7/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.54	+14 2.3	2.576	3.390	10.8	21.0
2 21	12 17.43	+15 6.1	2.505	3.396	8.4	20.8
3 2	12 11.65	+16 11.0	2.460	3.402	6.1	20.7
3 12	12 4.69	+17 11.1	2.443	3.408	4.7	20.6
3 22	11 57.19	+18 0.7	2.455	3.413	5.4	20.7
4 1	11 49.90	+18 35.5	2.495	3.419	7.5	20.8
4 11	11 43.49	+18 53.1	2.561	3.424	9.9	21.0
4 21	11 38.49	+18 53.1	2.650	3.428	12.1	21.1

419763 2010 VQ_{114} 3 20.1 124°.04 1°.1/21.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.10	− 5 2.6	1.896	2.674	15.5	21.5
2 21	12 20.80	− 4 52.7	1.814	2.683	12.3	21.3
3 2	12 14.21	− 4 27.2	1.754	2.691	8.5	21.1
3 12	12 5.95	− 3 48.8	1.719	2.700	4.3	20.8
3 22	11 56.88	− 3 2.0	1.712	2.708	1.2	20.6
4 1	11 48.05	− 2 13.0	1.734	2.716	5.0	20.9
4 11	11 40.44	− 1 28.1	1.784	2.723	9.1	21.1
4 21	11 34.74	− 0 52.3	1.857	2.730	12.7	21.4

166983 2003 OT_{23} 3 20.1 301°.77 1°.7/18.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.91	− 1 13.4	1.401	2.224	17.7	19.7
2 21	12 17.04	− 0 13.0	1.307	2.205	13.9	19.4
3 2	12 12.33	+ 1 10.7	1.232	2.187	9.3	19.1
3 12	12 5.33	+ 2 51.5	1.181	2.168	4.1	18.7
3 22	11 56.99	+ 4 39.5	1.156	2.150	2.6	18.6
4 1	11 48.64	+ 6 22.1	1.157	2.132	8.0	18.8
4 11	11 41.62	+ 7 47.6	1.182	2.115	13.3	19.1
4 21	11 36.98	+ 8 48.5	1.227	2.098	18.0	19.3

205815 2002 CU_{209} 3 20.1 65°.30 1°.0/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.87	− 0 22.4	1.423	2.236	18.0	20.5
2 21	12 21.28	+ 0 5.4	1.353	2.246	14.0	20.3
3 2	12 14.84	+ 0 49.5	1.304	2.255	9.3	20.1
3 12	12 6.31	+ 1 44.3	1.279	2.265	4.1	19.8
3 22	11 56.81	+ 2 42.1	1.279	2.275	1.7	19.6
4 1	11 47.67	+ 3 34.4	1.307	2.284	6.9	20.0
4 11	11 40.14	+ 4 13.6	1.359	2.294	11.7	20.3
4 21	11 35.04	+ 4 35.8	1.432	2.304	15.8	20.6

465176 2007 ES_{100} 3 20.1 35°.59 1°.1/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.44	− 0 14.9	1.551	2.365	16.7	21.5
2 21	12 18.39	+ 0 20.2	1.480	2.373	13.0	21.3
3 2	12 12.79	+ 1 10.7	1.430	2.382	8.6	21.0
3 12	12 5.34	+ 2 11.1	1.404	2.391	3.8	20.8
3 22	11 57.04	+ 3 13.8	1.405	2.400	1.8	20.7
4 1	11 49.04	+ 4 10.6	1.433	2.410	6.5	21.0
4 11	11 42.45	+ 4 54.5	1.486	2.420	11.0	21.3
4 21	11 38.00	+ 5 21.4	1.561	2.431	14.9	21.5

60312 1999 XM_{218} 3 20.1 218°.44 2°.0/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.02	− 7 19.5	1.772	2.542	16.7	20.5
2 21	12 22.74	− 7 13.2	1.672	2.534	13.5	20.2
3 2	12 15.81	− 6 48.0	1.593	2.525	9.6	20.0
3 12	12 6.82	− 6 5.3	1.538	2.516	5.2	19.7
3 22	11 56.66	− 5 9.3	1.511	2.505	2.0	19.4
4 1	11 46.52	− 4 6.6	1.513	2.494	5.5	19.6
4 11	11 37.60	− 3 5.5	1.541	2.482	10.1	19.9
4 21	11 30.80	− 2 12.8	1.593	2.470	14.2	20.1

426816 2013 TO_{144} 3 20.1 180°.01 2°.2/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.78	+ 3 46.9	1.963	2.771	14.0	21.1
2 21	12 18.96	+ 4 27.2	1.880	2.771	10.8	20.9
3 2	12 12.97	+ 5 17.3	1.820	2.771	7.1	20.6
3 12	12 5.39	+ 6 11.8	1.786	2.771	3.4	20.4
3 22	11 57.03	+ 7 4.4	1.781	2.771	2.9	20.4
4 1	11 48.85	+ 7 48.8	1.804	2.771	6.4	20.6
4 11	11 41.79	+ 8 19.9	1.853	2.771	10.2	20.8
4 21	11 36.52	+ 8 35.1	1.926	2.770	13.5	21.0

245684 2006 BK_{96} 3 20.1 48°.25 1°.9/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.79	− 0 0.6	1.529	2.347	16.8	19.9
2 21	12 17.69	+ 1 11.0	1.477	2.373	12.8	19.7
3 2	12 12.15	+ 2 38.3	1.447	2.400	8.3	19.5
3 12	12 4.97	+ 4 13.1	1.441	2.428	3.7	19.3
3 22	11 57.15	+ 5 45.6	1.463	2.456	2.7	19.3
4 1	11 49.81	+ 7 6.4	1.512	2.484	6.9	19.6
4 11	11 43.94	+ 8 8.6	1.587	2.512	11.1	19.9
4 21	11 40.13	+ 8 49.1	1.684	2.540	14.6	20.2

287103 2002 RA_{147} 3 20.1 223°.29 0°.1/20.1 10 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.22	− 3 1.3	2.072	2.853	14.2	22.8
2 21	12 20.11	− 2 32.2	1.971	2.844	11.2	22.5
3 2	12 13.80	− 1 48.2	1.892	2.834	7.6	22.3
3 12	12 5.81	− 0 52.8	1.840	2.823	3.5	22.0
3 22	11 56.92	+ 0 9.0	1.816	2.812	0.8	21.8
4 1	11 48.07	+ 1 10.8	1.822	2.800	5.2	22.1
4 11	11 40.23	+ 2 5.8	1.856	2.788	9.3	22.3
4 21	11 34.13	+ 2 49.3	1.914	2.775	12.9	22.5

429964 2012 VX_{64} 3 20.1 351°.20 2°.7/17.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.24	+ 6 52.1	2.104	2.912	13.1	21.1
2 21	12 19.93	+ 7 14.6	2.020	2.911	10.1	20.9
3 2	12 13.54	+ 7 42.9	1.960	2.910	6.8	20.7
3 12	12 5.63	+ 8 11.9	1.926	2.909	3.5	20.5
3 22	11 56.99	+ 8 36.6	1.921	2.909	3.2	20.5
4 1	11 48.54	+ 8 52.4	1.945	2.908	6.4	20.7
4 11	11 41.18	+ 8 55.8	1.995	2.908	9.9	20.9
4 21	11 35.53	+ 8 45.4	2.069	2.908	13.0	21.1

229127 2004 RD_{178} 3 20.1 144°.34 2°.4/22.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.59	− 9 48.1	2.043	2.803	15.1	20.6
2 21	12 18.01	− 9 33.2	1.953	2.807	12.2	20.4
3 2	12 12.33	− 8 59.5	1.884	2.810	8.8	20.2
3 12	12 5.11	− 8 8.9	1.840	2.813	5.1	20.0
3 22	11 57.12	− 7 5.5	1.824	2.816	2.4	19.8
4 1	11 49.27	− 5 55.4	1.837	2.819	4.7	20.0
4 11	11 42.48	− 4 45.8	1.877	2.822	8.4	20.2
4 21	11 37.41	− 3 43.3	1.943	2.824	11.8	20.4

493486 2015 AE_{155} 3 20.1 119°.59 0°.5/19.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.61	− 0 50.6	2.022	2.814	14.2	21.7
2 21	12 19.49	− 0 25.6	1.941	2.821	11.0	21.5
3 2	12 13.26	+ 0 11.6	1.883	2.828	7.4	21.3
3 12	12 5.51	+ 0 57.1	1.851	2.836	3.3	21.0
3 22	11 57.03	+ 1 45.6	1.847	2.843	1.1	20.9
4 1	11 48.78	+ 2 31.3	1.872	2.849	5.2	21.2
4 11	11 41.64	+ 3 8.8	1.925	2.856	9.1	21.4
4 21	11 36.25	+ 3 34.4	2.002	2.862	12.5	21.6

59325 1999 CZ_{97} 3 20.1 99°.25 1°.6/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.97	+ 1 17.7	1.505	2.315	17.3	18.9
2 21	12 22.76	+ 1 48.0	1.434	2.326	13.5	18.7
3 2	12 15.76	+ 2 32.3	1.385	2.336	8.9	18.5
3 12	12 6.73	+ 3 24.5	1.361	2.347	4.0	18.2
3 22	11 56.77	+ 4 17.3	1.363	2.357	2.3	18.1
4 1	11 47.18	+ 5 2.6	1.393	2.367	7.0	18.4
4 11	11 39.18	+ 5 34.2	1.447	2.377	11.6	18.7
4 21	11 33.56	+ 5 48.7	1.524	2.387	15.5	19.0

351995 2006 UZ_{191} 3 20.1 24°.39 4°.2/25.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.79	−15 17.6	2.329	3.055	14.4	20.4
2 21	12 16.44	−15 25.8	2.233	3.056	12.0	20.2
3 2	12 11.21	−15 15.3	2.157	3.057	9.3	20.0
3 12	12 4.59	−14 46.3	2.106	3.058	6.4	19.8
3 22	11 57.27	−14 0.7	2.082	3.060	4.4	19.7
4 1	11 50.04	−13 2.9	2.086	3.061	5.0	19.7
4 11	11 43.71	−11 58.8	2.118	3.063	7.5	19.9
4 21	11 38.90	−10 54.9	2.176	3.064	10.4	20.1

463778 2014 SC_{213} 3 20.1 67°.61 9°.6/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.97	+22 52.3	1.668	2.495	15.2	20.4
2 21	12 22.50	+24 24.6	1.625	2.511	12.5	20.3
3 2	12 15.38	+25 49.3	1.605	2.528	10.3	20.2
3 12	12 6.45	+26 55.4	1.610	2.544	9.6	20.2
3 22	11 56.86	+27 34.9	1.639	2.561	10.6	20.3
4 1	11 47.83	+27 43.2	1.693	2.577	12.8	20.5
4 11	11 40.43	+27 21.0	1.768	2.594	15.2	20.6
4 21	11 35.34	+26 32.1	1.862	2.610	17.5	20.9

56594 2000 JL_{40} 3 20.1 260°.03 1°.7/21.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.83	− 5 56.0	1.675	2.457	17.1	19.0
2 21	12 22.08	− 5 54.0	1.569	2.440	13.8	18.7
3 2	12 15.57	− 5 33.6	1.484	2.421	9.7	18.4
3 12	12 6.81	− 4 56.2	1.423	2.403	5.1	18.1
3 22	11 56.70	− 4 5.9	1.389	2.384	1.7	17.8
4 1	11 46.49	− 3 9.4	1.382	2.364	5.8	18.0
4 11	11 37.48	− 2 14.9	1.401	2.344	10.8	18.3
4 21	11 30.67	− 1 29.5	1.444	2.323	15.2	18.5

59198 1999 BT_3 3 20.1 4°.15 1°.8/18.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.34	− 0 16.0	1.275	2.104	18.8	18.9
2 21	12 18.18	+ 0 36.0	1.201	2.104	14.6	18.6
3 2	12 13.03	+ 1 48.5	1.148	2.104	9.7	18.3
3 12	12 5.60	+ 3 14.3	1.117	2.104	4.3	18.0
3 22	11 57.03	+ 4 42.9	1.111	2.105	2.7	17.9
4 1	11 48.72	+ 6 2.6	1.131	2.107	8.0	18.2
4 11	11 42.03	+ 7 3.6	1.174	2.109	13.1	18.5
4 21	11 37.86	+ 7 40.7	1.237	2.111	17.6	18.8

410171 2007 PL_{36} 3 20.1 263°.65 4°.0/23.3 16

2 11	12 24.64	−11 16.5	1.670	2.432	17.9	21.2
2 21	12 21.22	−11 29.3	1.563	2.415	14.8	20.9
3 2	12 15.03	−11 20.1	1.475	2.397	11.1	20.6
3 12	12 6.58	−10 48.6	1.411	2.379	7.0	20.3
3 22	11 56.76	− 9 56.8	1.372	2.360	4.0	20.1
4 1	11 46.82	− 8 50.7	1.360	2.341	6.1	20.2
4 11	11 38.06	− 7 39.0	1.374	2.322	10.5	20.4
4 21	11 31.51	− 6 31.0	1.412	2.302	14.9	20.6

237686 2001 TD_{159} 3 20.1 216°.55 1°.3/21.7 18

2 11	12 18.74	− 7 59.9	2.430	3.192	12.9	20.7
2 21	12 15.49	− 7 24.2	2.331	3.190	10.3	20.5
3 2	12 10.51	− 6 32.3	2.255	3.187	7.2	20.3
3 12	12 4.26	− 5 26.7	2.206	3.184	3.8	20.1
3 22	11 57.36	− 4 11.9	2.186	3.180	1.3	19.9
4 1	11 50.56	− 2 53.6	2.195	3.177	4.0	20.1
4 11	11 44.58	− 1 38.2	2.234	3.174	7.5	20.3
4 21	11 39.99	− 0 31.2	2.298	3.170	10.6	20.5

213021 1995 VK_6 3 20.1 165°.80 0°.3/20.4 17

2 11	12 24.85	− 3 39.3	2.019	2.799	14.6	22.0
2 21	12 20.52	− 3 11.9	1.932	2.804	11.5	21.8
3 2	12 14.00	− 2 29.7	1.867	2.808	7.8	21.6
3 12	12 5.88	− 1 35.9	1.828	2.811	3.7	21.3
3 22	11 56.98	− 0 35.9	1.818	2.814	0.8	21.1
4 1	11 48.24	+ 0 23.8	1.837	2.816	5.0	21.4
4 11	11 40.62	+ 1 17.0	1.884	2.818	9.1	21.6
4 21	11 34.81	+ 1 58.8	1.956	2.819	12.6	21.9

178263 Wienphilo 3 20.1 99°.15 9°.9/ 4.6 18

2 11	12 25.70	+35 16.6	2.573	3.358	11.7	20.4
2 21	12 20.85	+36 59.0	2.548	3.378	10.5	20.3
3 2	12 13.99	+38 27.4	2.548	3.397	9.9	20.3
3 12	12 5.77	+39 34.3	2.572	3.416	10.1	20.4
3 22	11 57.03	+40 14.9	2.620	3.435	11.0	20.5
4 1	11 48.69	+40 27.1	2.690	3.454	12.1	20.6
4 11	11 41.57	+40 12.1	2.780	3.472	13.4	20.7
4 21	11 36.20	+39 33.3	2.887	3.489	14.6	20.8

311351 2005 QS_{190} 3 20.1 216°.81 2°.0/17.3 17

2 11	12 20.57	+ 5 38.3	2.989	3.784	10.0	21.7
2 21	12 16.53	+ 6 18.2	2.892	3.777	7.7	21.5
3 2	12 11.02	+ 7 3.8	2.820	3.769	5.1	21.4
3 12	12 4.44	+ 7 51.2	2.777	3.760	2.6	21.2
3 22	11 57.33	+ 8 36.5	2.765	3.751	2.5	21.2
4 1	11 50.29	+ 9 15.4	2.783	3.742	5.0	21.3
4 11	11 43.93	+ 9 44.6	2.829	3.732	7.6	21.5
4 21	11 38.72	+10 2.3	2.900	3.722	10.1	21.6

193782 2001 OA_{34} 3 20.1 146°.44 3°.7/16.6 18

2 11	12 29.21	+ 7 23.9	1.905	2.709	14.4	21.4
2 21	12 23.90	+ 8 21.1	1.833	2.722	11.1	21.2
3 2	12 16.22	+ 9 25.4	1.786	2.734	7.4	21.0
3 12	12 6.87	+10 29.8	1.765	2.745	4.2	20.8
3 22	11 56.77	+11 26.8	1.774	2.756	4.4	20.8
4 1	11 47.00	+12 10.0	1.811	2.765	7.6	21.0
4 11	11 38.57	+12 35.1	1.875	2.773	11.2	21.3
4 21	11 32.17	+12 41.1	1.962	2.781	14.3	21.5

313607 2003 QL_{30} 3 20.1 112°.32 3°.3/16.6 18

2 11	12 29.39	+ 7 20.5	2.168	2.964	13.2	21.7
2 21	12 23.56	+ 8 19.2	2.109	2.994	10.1	21.6
3 2	12 15.72	+ 9 23.3	2.076	3.023	6.7	21.4
3 12	12 6.54	+10 26.5	2.071	3.051	3.8	21.3
3 22	11 56.86	+11 22.3	2.096	3.077	3.9	21.3
4 1	11 47.60	+12 5.4	2.151	3.103	6.8	21.5
4 11	11 39.60	+12 32.5	2.234	3.127	9.8	21.8
4 21	11 33.39	+12 42.8	2.340	3.151	12.6	22.0

491805 2012 XS_{94} 3 20.1 97°.50 2°.9/23.8 15

2 11	12 19.61	−12 18.8	2.521	3.258	13.1	21.8
2 21	12 16.06	−12 9.5	2.432	3.267	10.8	21.7
3 2	12 10.81	−11 43.7	2.364	3.277	8.0	21.5
3 12	12 4.37	−11 2.8	2.322	3.286	5.0	21.3
3 22	11 57.35	−10 9.7	2.308	3.294	2.9	21.2
4 1	11 50.49	− 9 8.9	2.324	3.303	4.1	21.3
4 11	11 44.46	− 8 6.1	2.368	3.312	6.9	21.5
4 21	11 39.82	− 7 6.6	2.438	3.321	9.7	21.7

198364 2004 VM_{14} 3 20.1 71°.70 0°.9/20.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.94	− 4 29.5	1.432	2.229	18.7	20.4
2 21	12 22.74	− 4 16.4	1.371	2.251	14.7	20.2
3 2	12 15.71	− 3 44.0	1.329	2.273	10.0	19.9
3 12	12 6.68	− 2 56.6	1.312	2.295	4.9	19.7
3 22	11 56.82	− 2 0.8	1.321	2.316	1.1	19.5
4 1	11 47.47	− 1 4.9	1.356	2.338	6.0	19.9
4 11	11 39.81	− 0 16.8	1.417	2.360	10.7	20.2
4 21	11 34.59	+ 0 18.1	1.501	2.381	14.7	20.5

361627 2007 TG_{148} 3 20.1 163°.80 2°.7/17.5 18

2 11	12 27.79	+ 5 23.6	1.974	2.775	14.1	21.1
2 21	12 22.80	+ 6 5.6	1.894	2.781	10.9	20.9
3 2	12 15.52	+ 6 55.8	1.837	2.787	7.2	20.7
3 12	12 6.57	+ 7 48.6	1.808	2.791	3.7	20.5
3 22	11 56.83	+ 8 37.3	1.807	2.795	3.4	20.4
4 1	11 47.34	+ 9 16.0	1.836	2.798	6.8	20.7
4 11	11 39.08	+ 9 40.0	1.891	2.800	10.5	20.9
4 21	11 32.74	+ 9 47.6	1.970	2.802	13.8	21.1

496392 2013 TU_{51} 3 20.1 207°.25 0°.1/20.2 17

2 11	12 24.59	− 2 40.9	2.722	3.488	11.6	23.8
2 21	12 19.81	− 2 16.1	2.615	3.480	9.1	23.6
3 2	12 13.31	− 1 40.3	2.533	3.471	6.2	23.4
3 12	12 5.53	− 0 56.3	2.479	3.462	2.9	23.2
3 22	11 57.08	− 0 7.9	2.455	3.451	0.6	23.0
4 1	11 48.66	+ 0 40.7	2.463	3.440	4.1	23.2
4 11	11 41.01	+ 1 24.6	2.500	3.428	7.4	23.4
4 21	11 34.71	+ 2 0.4	2.564	3.415	10.4	23.6

210504 1998 HZ_{95} 3 20.1 286°.47 2°.5/23.3 18

2 11	12 17.45	−12 12.1	2.379	3.125	13.6	20.0
2 21	12 14.65	−11 38.8	2.266	3.110	11.2	19.8
3 2	12 10.06	−10 45.6	2.176	3.095	8.2	19.6
3 12	12 4.10	− 9 34.1	2.111	3.080	5.0	19.4
3 22	11 57.41	− 8 8.1	2.074	3.064	2.5	19.2
4 1	11 50.74	− 6 33.5	2.067	3.049	4.2	19.3
4 11	11 44.87	− 4 57.8	2.089	3.034	7.6	19.5
4 21	11 40.40	− 3 28.0	2.137	3.019	10.9	19.6

185550 2007 YP_{57} 3 20.1 270°.93 2°.3/17.5 17

2 11	12 20.92	+ 4 53.9	2.302	3.107	12.2	20.7
2 21	12 17.30	+ 5 35.4	2.206	3.097	9.4	20.5
3 2	12 11.79	+ 6 25.0	2.135	3.086	6.2	20.3
3 12	12 4.88	+ 7 18.0	2.092	3.076	3.1	20.1
3 22	11 57.24	+ 8 8.8	2.077	3.065	2.9	20.0
4 1	11 49.68	+ 8 52.0	2.091	3.054	6.0	20.2
4 11	11 43.00	+ 9 23.0	2.132	3.043	9.4	20.4
4 21	11 37.83	+ 9 39.4	2.197	3.033	12.4	20.6

523587 1999 VQ_{11} 3 20.1 112°.50 1°.3/18.3 18 R

2 11	12 25.94	+ 2 55.1	3.147	3.921	10.0	23.6
2 21	12 20.30	+ 3 33.5	3.081	3.953	7.6	23.5
3 2	12 13.30	+ 4 17.8	3.041	3.984	5.0	23.3
3 12	12 5.39	+ 5 4.3	3.031	4.015	2.3	23.2
3 22	11 57.15	+ 5 49.4	3.053	4.044	1.7	23.2
4 1	11 49.16	+ 6 29.3	3.107	4.072	4.2	23.4
4 11	11 41.99	+ 7 1.1	3.191	4.099	6.7	23.6
4 21	11 36.05	+ 7 23.1	3.302	4.125	9.0	23.8

279564 2011 DO_1 3 20.1 167°.43 1°.4/21.4 17

2 11	12 24.45	− 5 29.3	2.091	2.862	14.5	21.2
2 21	12 20.18	− 5 27.2	2.000	2.864	11.5	21.0
3 2	12 13.78	− 5 10.7	1.931	2.866	8.0	20.8
3 12	12 5.81	− 4 42.1	1.888	2.867	4.2	20.5
3 22	11 57.04	− 4 4.9	1.874	2.868	1.4	20.3
4 1	11 48.40	− 3 24.2	1.888	2.869	4.6	20.6
4 11	11 40.82	− 2 45.5	1.930	2.870	8.5	20.8
4 21	11 34.98	− 2 13.7	1.998	2.871	11.9	21.0

410262 2007 TX_{124} 3 20.1 244°.23 0°.2/20.3 17

2 11	12 23.50	− 4 12.4	1.800	2.588	15.8	22.3
2 21	12 19.96	− 3 35.9	1.698	2.575	12.6	22.0
3 2	12 13.96	− 2 40.6	1.618	2.561	8.6	21.8
3 12	12 6.01	− 1 29.8	1.562	2.546	4.0	21.5
3 22	11 56.97	− 0 9.8	1.535	2.531	0.9	21.2
4 1	11 47.92	+ 1 11.2	1.536	2.515	5.8	21.5
4 11	11 40.00	+ 2 24.5	1.564	2.499	10.4	21.7
4 21	11 34.05	+ 3 23.4	1.615	2.483	14.6	21.9

125011 2001 TE_{168} 3 20.1 109°.10 3°.7/22.9 18

2 11	12 26.88	− 9 43.9	1.538	2.310	18.8	19.9
2 21	12 22.85	−10 3.4	1.458	2.316	15.3	19.7
3 2	12 15.97	−10 1.7	1.396	2.323	11.2	19.4
3 12	12 6.92	− 9 39.1	1.358	2.329	6.8	19.2
3 22	11 56.77	− 8 59.0	1.346	2.336	3.7	19.0
4 1	11 46.85	− 8 7.8	1.360	2.342	6.0	19.2
4 11	11 38.45	− 7 14.0	1.400	2.347	10.3	19.4
4 21	11 32.45	− 6 25.5	1.463	2.353	14.5	19.7

304625 2006 VJ_{136} 3 20.1 116°.44 4°.2/25.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 19.62	−16 40.5	2.573	3.284	13.5	20.9
2 21	12 16.11	−16 43.1	2.477	3.289	11.4	20.8
3 2	12 10.90	−16 27.7	2.402	3.293	8.8	20.6
3 12	12 4.44	−15 54.3	2.352	3.298	6.2	20.4
3 22	11 57.37	−15 5.2	2.329	3.303	4.4	20.3
4 1	11 50.41	−14 4.1	2.335	3.307	4.8	20.3
4 11	11 44.28	−12 56.9	2.369	3.312	7.0	20.5
4 21	11 39.52	−11 49.3	2.430	3.316	9.6	20.7

210567 1999 TV_{214} 3 20.1 173°.55 1°.7/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.68	+ 2 4.9	1.995	2.791	14.2	21.2
2 21	12 21.19	+ 2 46.0	1.910	2.794	11.0	21.0
3 2	12 14.48	+ 3 38.4	1.848	2.797	7.2	20.8
3 12	12 6.13	+ 4 36.9	1.813	2.799	3.3	20.6
3 22	11 56.97	+ 5 35.2	1.808	2.800	2.3	20.5
4 1	11 48.01	+ 6 26.7	1.831	2.800	6.1	20.7
4 11	11 40.20	+ 7 5.9	1.881	2.800	10.0	21.0
4 21	11 34.22	+ 7 29.8	1.956	2.800	13.4	21.2

290910 2005 WV_{104} 3 20.1 135°.81 1°.5/22.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.79	− 8 37.7	3.053	3.799	10.9	21.2
2 21	12 15.09	− 8 15.7	2.961	3.808	8.7	21.1
3 2	12 10.02	− 7 41.4	2.893	3.817	6.2	20.9
3 12	12 3.98	− 6 56.6	2.853	3.826	3.5	20.7
3 22	11 57.49	− 6 4.5	2.842	3.834	1.5	20.6
4 1	11 51.12	− 5 8.8	2.861	3.843	3.3	20.7
4 11	11 45.44	− 4 14.0	2.911	3.850	6.0	20.9
4 21	11 40.86	− 3 23.9	2.987	3.858	8.5	21.1

20119 1995 WC_2 3 20.1 125°.22 4°.7/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.96	+12 35.8	2.235	3.047	12.3	19.1
2 21	12 20.28	+13 35.8	2.169	3.060	9.5	18.9
3 2	12 13.65	+14 37.7	2.128	3.072	6.7	18.8
3 12	12 5.67	+15 34.9	2.114	3.084	4.8	18.7
3 22	11 57.10	+16 21.3	2.130	3.096	5.4	18.7
4 1	11 48.83	+16 51.9	2.173	3.107	7.8	18.9
4 11	11 41.65	+17 4.2	2.243	3.118	10.6	19.1
4 21	11 36.15	+16 58.1	2.335	3.128	13.1	19.3

57548 2001 TU_{22} 3 20.1 48°.97 0°.5/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.31	− 0 23.0	1.664	2.468	16.2	18.9
2 21	12 20.50	− 0 7.9	1.587	2.474	12.7	18.7
3 2	12 14.19	+ 0 20.7	1.532	2.480	8.5	18.5
3 12	12 6.03	+ 0 58.6	1.502	2.487	3.8	18.2
3 22	11 57.00	+ 1 39.9	1.498	2.494	1.3	18.0
4 1	11 48.24	+ 2 18.0	1.523	2.501	6.0	18.4
4 11	11 40.83	+ 2 47.0	1.573	2.508	10.4	18.6
4 21	11 35.54	+ 3 2.9	1.646	2.516	14.2	18.9

462005 2006 WV_{167} 3 20.1 117°.64 1°.3/21.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.26	− 6 27.4	1.934	2.707	15.4	22.4
2 21	12 20.09	− 6 6.9	1.855	2.720	12.2	22.2
3 2	12 13.72	− 5 29.3	1.797	2.733	8.5	22.0
3 12	12 5.77	− 4 37.6	1.765	2.745	4.4	21.8
3 22	11 57.08	− 3 36.9	1.761	2.757	1.3	21.6
4 1	11 48.64	− 2 33.6	1.786	2.768	4.8	21.9
4 11	11 41.39	− 1 34.8	1.839	2.779	8.8	22.1
4 21	11 35.99	− 0 45.8	1.916	2.790	12.3	22.4

378730 2008 QD_{43} 3 20.1 130°.03 1°.4/21.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.42	− 6 47.0	2.218	2.984	13.9	21.3
2 21	12 18.44	− 6 31.2	2.132	2.992	11.1	21.1
3 2	12 12.52	− 6 0.3	2.067	3.000	7.7	20.9
3 12	12 5.20	− 5 16.7	2.029	3.007	4.1	20.7
3 22	11 57.21	− 4 24.4	2.020	3.014	1.4	20.5
4 1	11 49.39	− 3 28.8	2.040	3.021	4.3	20.7
4 11	11 42.57	− 2 35.8	2.088	3.028	7.9	21.0
4 21	11 37.34	− 1 50.3	2.161	3.034	11.2	21.2

471190 2010 NQ_{56} 3 20.1 126°.73 3°.9/14.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.38	+12 53.2	2.941	3.752	9.7	21.1
2 21	12 15.59	+13 49.2	2.868	3.758	7.5	21.0
3 2	12 10.36	+14 46.7	2.821	3.765	5.3	20.9
3 12	12 4.14	+15 40.7	2.802	3.771	3.9	20.8
3 22	11 57.47	+16 26.7	2.813	3.777	4.5	20.8
4 1	11 50.95	+17 0.7	2.853	3.783	6.4	21.0
4 11	11 45.18	+17 20.5	2.920	3.788	8.6	21.1
4 21	11 40.60	+17 25.4	3.010	3.794	10.7	21.3

466553 2014 SZ_{318} 3 20.1 71°.89 0°.7/19.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.04	− 1 35.7	1.645	2.446	16.5	21.8
2 21	12 20.14	− 0 55.0	1.582	2.468	12.8	21.6
3 2	12 13.81	+ 0 1.4	1.541	2.490	8.4	21.4
3 12	12 5.80	+ 1 7.7	1.526	2.511	3.7	21.2
3 22	11 57.08	+ 2 16.6	1.537	2.533	1.4	21.0
4 1	11 48.79	+ 3 20.1	1.577	2.554	6.0	21.4
4 11	11 41.91	+ 4 11.3	1.643	2.575	10.2	21.7
4 21	11 37.12	+ 4 46.3	1.731	2.596	13.9	22.0

283626 2002 CK_{210} 3 20.1 123°.06 0°.3/20.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 29.05	− 3 29.5	1.991	2.763	15.0	21.0
2 21	12 23.61	− 3 5.6	1.918	2.785	11.8	20.9
3 2	12 15.96	− 2 27.4	1.868	2.807	7.9	20.7
3 12	12 6.74	− 1 38.6	1.844	2.827	3.7	20.4
3 22	11 56.87	− 0 44.7	1.850	2.846	0.8	20.2
4 1	11 47.34	+ 0 8.3	1.886	2.865	5.0	20.6
4 11	11 39.10	+ 0 54.4	1.950	2.882	8.9	20.9
4 21	11 32.79	+ 1 29.6	2.040	2.899	12.3	21.1

429107 2009 SU_{136} 3 20.1 143°.56 0°.2/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.37	− 1 20.2	2.063	2.850	14.1	22.0
2 21	12 20.08	− 0 59.2	1.979	2.856	11.0	21.8
3 2	12 13.68	− 0 25.9	1.917	2.862	7.4	21.6
3 12	12 5.75	+ 0 16.0	1.882	2.867	3.3	21.4
3 22	11 57.09	+ 1 1.7	1.876	2.872	0.9	21.2
4 1	11 48.62	+ 1 45.5	1.899	2.876	5.1	21.5
4 11	11 41.24	+ 2 22.0	1.949	2.881	8.9	21.8
4 21	11 35.60	+ 2 47.5	2.024	2.885	12.3	22.0

56199 1999 GG_{11} 3 20.1 266°.19 0°.9/21.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.93	− 7 15.4	1.997	2.773	14.9	19.2
2 21	12 16.96	− 6 27.3	1.888	2.756	11.9	19.0
3 2	12 11.83	− 5 18.1	1.801	2.738	8.3	18.7
3 12	12 5.01	− 3 50.9	1.739	2.720	4.2	18.5
3 22	11 57.24	− 2 11.6	1.707	2.702	1.0	18.2
4 1	11 49.46	− 0 28.3	1.703	2.684	5.1	18.4
4 11	11 42.62	+ 1 9.7	1.727	2.665	9.4	18.6
4 21	11 37.50	+ 2 35.0	1.776	2.646	13.3	18.8

246012 2006 TU_{63} 3 20.1 145°.34 4°.9/13.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.00	+15 27.3	2.655	3.468	10.6	21.2
2 21	12 17.77	+16 28.7	2.586	3.474	8.3	21.0
3 2	12 11.89	+17 30.2	2.541	3.480	6.1	20.9
3 12	12 4.86	+18 25.9	2.525	3.486	4.9	20.8
3 22	11 57.31	+19 10.5	2.538	3.491	5.6	20.9
4 1	11 49.96	+19 39.9	2.579	3.496	7.6	21.0
4 11	11 43.49	+19 52.1	2.646	3.501	9.8	21.2
4 21	11 38.39	+19 47.0	2.735	3.506	12.0	21.3

218275 2003 FW_{23} 3 20.1 20°.96 0°.6/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.40	+ 0 6.8	1.479	2.294	17.4	20.2
2 21	12 20.11	+ 0 16.4	1.406	2.299	13.6	19.9
3 2	12 14.08	+ 0 40.1	1.353	2.304	9.1	19.7
3 12	12 6.04	+ 1 13.4	1.325	2.311	4.1	19.4
3 22	11 57.02	+ 1 50.1	1.322	2.317	1.4	19.2
4 1	11 48.31	+ 2 23.1	1.345	2.324	6.4	19.6
4 11	11 41.09	+ 2 46.1	1.393	2.332	11.1	19.9
4 21	11 36.18	+ 2 55.3	1.464	2.341	15.2	20.1

423651 2005 YW_{26} 3 20.1 52°.28 0°.1/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.69	− 3 19.3	1.592	2.393	17.0	21.0
2 21	12 19.19	− 2 50.2	1.530	2.414	13.2	20.8
3 2	12 13.23	− 2 3.8	1.489	2.436	8.9	20.6
3 12	12 5.55	− 1 5.3	1.473	2.458	4.1	20.4
3 22	11 57.17	− 0 1.5	1.484	2.480	0.9	20.2
4 1	11 49.20	+ 0 59.7	1.522	2.503	5.7	20.6
4 11	11 42.67	+ 1 51.0	1.586	2.525	10.0	20.9
4 21	11 38.24	+ 2 27.9	1.673	2.548	13.7	21.1

100166 1993 UU_1 3 20.1 267°.74 0°.3/20.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.30	− 2 50.9	1.939	2.725	14.9	20.8
2 21	12 20.49	− 2 36.1	1.829	2.705	11.9	20.6
3 2	12 14.28	− 2 6.6	1.742	2.684	8.1	20.3
3 12	12 6.19	− 1 25.1	1.680	2.663	3.9	20.0
3 22	11 56.99	− 0 36.1	1.646	2.642	0.8	19.7
4 1	11 47.71	+ 0 14.2	1.641	2.620	5.4	20.0
4 11	11 39.44	+ 0 59.1	1.662	2.598	9.9	20.2
4 21	11 33.03	+ 1 33.3	1.708	2.576	13.9	20.4

397828 2008 SB_{150} 3 20.1 202°.80 0°.2/20.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.52	− 4 20.6	1.870	2.651	15.6	22.2
2 21	12 21.36	− 3 39.6	1.774	2.646	12.3	22.0
3 2	12 14.79	− 2 40.3	1.700	2.641	8.4	21.7
3 12	12 6.37	− 1 26.4	1.652	2.635	3.9	21.5
3 22	11 56.97	− 0 4.4	1.632	2.628	0.9	21.2
4 1	11 47.65	+ 1 17.6	1.642	2.620	5.6	21.5
4 11	11 39.48	+ 2 31.4	1.679	2.612	10.0	21.8
4 21	11 33.28	+ 3 30.8	1.740	2.602	13.9	22.0

2172 Plavsk 3 20.1 103°.26 1°.6/18.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.76	+ 2 28.2	2.203	3.001	13.0	17.1
2 21	12 18.62	+ 3 7.1	2.128	3.014	10.0	16.9
3 2	12 12.58	+ 3 55.2	2.078	3.027	6.5	16.7
3 12	12 5.22	+ 4 47.8	2.055	3.040	3.0	16.5
3 22	11 57.26	+ 5 39.4	2.060	3.052	2.2	16.4
4 1	11 49.55	+ 6 24.5	2.096	3.065	5.5	16.7
4 11	11 42.88	+ 6 58.6	2.158	3.077	8.9	16.9
4 21	11 37.79	+ 7 19.2	2.245	3.089	11.9	17.1

96953 1999 TY_{175} 3 20.1 174.°45 0.°1/20.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.55	− 1 43.8	2.224	3.007	13.3	20.6
2 21	12 19.34	− 1 25.3	2.133	3.008	10.4	20.4
3 2	12 13.16	− 0 55.0	2.066	3.009	7.0	20.2
3 12	12 5.53	− 0 16.3	2.026	3.010	3.2	19.9
3 22	11 57.19	+ 0 26.6	2.015	3.011	0.8	19.7
4 1	11 48.99	+ 1 8.5	2.033	3.011	4.7	20.0
4 11	11 41.77	+ 1 44.3	2.079	3.011	8.4	20.3
4 21	11 36.15	+ 2 10.3	2.150	3.011	11.7	20.5

207776 2007 TY_{73} 3 20.1 212.°36 1.°4/18.4 18

2 11	12 21.60	+ 2 16.4	2.467	3.261	11.9	21.1
2 21	12 17.67	+ 2 53.7	2.373	3.256	9.2	21.0
3 2	12 11.96	+ 3 40.1	2.303	3.252	6.0	20.7
3 12	12 4.97	+ 4 31.5	2.261	3.247	2.7	20.5
3 22	11 57.32	+ 5 23.0	2.249	3.241	1.9	20.4
4 1	11 49.77	+ 6 9.5	2.266	3.235	5.1	20.7
4 11	11 43.06	+ 6 46.5	2.311	3.229	8.4	20.8
4 21	11 37.76	+ 7 11.2	2.381	3.223	11.4	21.0

60824 2000 HG_{43} 3 20.1 255.°10 2.°2/22.1 17

2 11	12 23.01	− 9 8.3	1.677	2.452	17.3	20.0
2 21	12 19.86	− 8 46.4	1.573	2.437	14.1	19.7
3 2	12 14.08	− 8 1.0	1.488	2.421	10.1	19.4
3 12	12 6.17	− 6 53.4	1.428	2.404	5.6	19.1
3 22	11 57.02	− 5 28.6	1.394	2.387	2.2	18.9
4 1	11 47.82	− 3 55.0	1.387	2.370	5.7	19.0
4 11	11 39.80	− 2 22.8	1.407	2.353	10.5	19.3
4 21	11 33.90	− 1 1.4	1.451	2.334	14.9	19.5

113905 2002 TV_{277} 3 20.1 119.°29 3.°7/24.2 17

2 11	12 22.85	−13 11.9	2.362	3.092	14.1	19.5
2 21	12 18.74	−13 25.4	2.270	3.099	11.7	19.3
3 2	12 12.73	−13 22.1	2.201	3.107	8.8	19.2
3 12	12 5.33	−13 2.4	2.157	3.114	5.9	19.0
3 22	11 57.25	−12 28.3	2.140	3.121	3.8	18.9
4 1	11 49.30	−11 43.7	2.152	3.128	4.7	18.9
4 11	11 42.29	−10 54.2	2.192	3.135	7.4	19.1
4 21	11 36.82	−10 5.3	2.259	3.142	10.3	19.3

79561 1998 QT_{58} 3 20.1 177.°94 0.°3/20.4 18

2 11	12 26.52	− 2 28.5	2.012	2.793	14.6	20.5
2 21	12 21.88	− 2 17.1	1.922	2.794	11.5	20.3
3 2	12 14.99	− 1 52.5	1.854	2.795	7.8	20.0
3 12	12 6.42	− 1 18.0	1.813	2.796	3.7	19.8
3 22	11 57.00	− 0 37.9	1.800	2.796	0.8	19.5
4 1	11 47.74	+ 0 2.3	1.817	2.796	5.1	19.9
4 11	11 39.60	+ 0 36.9	1.861	2.795	9.1	20.1
4 21	11 33.31	+ 1 1.9	1.930	2.794	12.7	20.3

387448 2013 WZ_{65} 3 20.1 31.°65 5.°2/25.8 18

2 11	12 18.34	−17 12.4	1.813	2.550	17.5	19.9
2 21	12 15.82	−17 12.7	1.732	2.560	14.7	19.8
3 2	12 11.04	−16 47.3	1.670	2.571	11.4	19.6
3 12	12 4.63	−15 56.5	1.630	2.582	8.0	19.4
3 22	11 57.42	−14 43.7	1.616	2.594	5.4	19.3
4 1	11 50.44	−13 15.4	1.629	2.606	5.9	19.3
4 11	11 44.65	−11 41.1	1.668	2.618	8.7	19.5
4 21	11 40.72	−10 9.6	1.732	2.632	12.1	19.7

154013 2002 BP_{24} 3 20.1 296.°20 8.°2/11.2 18

2 11	12 22.18	+18 18.0	1.775	2.608	14.1	19.5
2 21	12 19.03	+19 54.8	1.696	2.592	11.4	19.3
3 2	12 13.36	+21 32.7	1.640	2.576	9.1	19.1
3 12	12 5.77	+23 1.1	1.610	2.560	8.2	19.0
3 22	11 57.15	+24 9.9	1.606	2.545	9.5	19.1
4 1	11 48.65	+24 51.5	1.626	2.529	12.1	19.2
4 11	11 41.40	+25 2.5	1.669	2.514	15.1	19.4
4 21	11 36.21	+24 44.0	1.731	2.499	17.9	19.5

371624 2006 YB_{36} 3 20.1 121.°14 1.°7/21.6 17

2 11	12 25.29	− 5 41.9	1.849	2.626	15.9	21.8
2 21	12 21.13	− 5 45.4	1.763	2.630	12.7	21.6
3 2	12 14.58	− 5 33.2	1.699	2.634	8.9	21.4
3 12	12 6.26	− 5 7.2	1.659	2.638	4.7	21.1
3 22	11 57.05	− 4 31.3	1.647	2.641	1.7	20.9
4 1	11 48.02	− 3 51.0	1.663	2.645	5.1	21.1
4 11	11 40.20	− 3 12.7	1.706	2.648	9.2	21.4
4 21	11 34.35	− 2 41.6	1.773	2.652	12.9	21.6

275177 2009 WX_{39} 3 20.1 128.°51 2.°5/22.7 17

2 11	12 22.83	− 9 19.7	2.061	2.820	15.0	20.9
2 21	12 18.98	− 9 16.1	1.972	2.825	12.2	20.7
3 2	12 13.02	− 8 55.0	1.905	2.830	8.8	20.5
3 12	12 5.52	− 8 18.0	1.862	2.835	5.1	20.2
3 22	11 57.23	− 7 28.7	1.848	2.839	2.5	20.1
4 1	11 49.11	− 6 32.4	1.862	2.844	4.7	20.2
4 11	11 42.04	− 5 35.8	1.904	2.848	8.3	20.4
4 21	11 36.71	− 4 44.8	1.971	2.852	11.7	20.7

466199 2012 LC_{14} 3 20.1 263.°55 4.°5/24.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.18	−16 9.9	2.257	2.975	15.0	22.2
2 21	12 18.63	−16 8.3	2.133	2.951	12.7	21.9
3 2	12 12.95	−15 45.7	2.029	2.927	9.9	21.7
3 12	12 5.58	−15 1.2	1.950	2.902	6.9	21.5
3 22	11 57.19	−13 56.3	1.898	2.876	4.6	21.3
4 1	11 48.68	−12 35.6	1.874	2.850	5.4	21.3
4 11	11 41.00	−11 6.3	1.879	2.823	8.4	21.4
4 21	11 34.93	− 9 36.4	1.909	2.795	11.8	21.6

24803 1994 PP_{18} 3 20.1 289.°85 1.°2/21.1 18

2 11	12 24.55	− 4 18.4	1.646	2.438	16.9	19.6
2 21	12 20.99	− 4 20.7	1.553	2.429	13.5	19.4
3 2	12 14.76	− 4 6.5	1.480	2.421	9.4	19.1
3 12	12 6.46	− 3 38.1	1.431	2.412	4.8	18.8
3 22	11 57.00	− 2 59.6	1.409	2.404	1.3	18.5
4 1	11 47.60	− 2 17.6	1.414	2.396	5.7	18.8
4 11	11 39.48	− 1 39.1	1.444	2.388	10.4	19.1
4 21	11 33.53	− 1 10.0	1.498	2.380	14.7	19.3

30403 2000 KR_{50} 3 20.1 176.°40 6.°5/12.1 18

2 11	12 25.38	+18 14.8	2.305	3.118	12.0	18.9
2 21	12 20.73	+19 38.4	2.235	3.120	9.6	18.7
3 2	12 14.07	+21 0.9	2.191	3.122	7.5	18.6
3 12	12 5.95	+22 14.5	2.175	3.123	6.5	18.6
3 22	11 57.16	+23 12.2	2.187	3.124	7.4	18.6
4 1	11 48.59	+23 48.9	2.226	3.124	9.5	18.7
4 11	11 41.08	+24 2.4	2.290	3.124	11.9	18.9
4 21	11 35.26	+23 53.5	2.375	3.122	14.2	19.1

352535 2008 CD_{178} 3 20.1 330.°68 7.°7/24.8 18

2 11	12 30.50	−16 17.1	1.979	2.691	17.0	19.5
2 21	12 25.62	−18 0.1	1.868	2.674	14.7	19.3
3 2	12 17.98	−19 29.7	1.778	2.658	12.1	19.1
3 12	12 8.04	−20 41.4	1.712	2.642	9.4	18.9
3 22	11 56.62	−21 31.8	1.673	2.627	7.8	18.8
4 1	11 44.90	−21 59.8	1.661	2.613	8.3	18.8
4 11	11 34.18	−22 8.5	1.676	2.600	10.7	18.9
4 21	11 25.52	−22 3.5	1.714	2.587	13.6	19.0

38079 1999 HF 3 20.1 354.°25 0.°9/21.2 18

2 11	12 8.43	−14 55.8	1.090	1.898	22.7	17.0
2 21	12 9.39	−12 46.0	1.006	1.891	18.4	16.6
3 2	12 7.44	− 9 40.1	0.941	1.886	13.0	16.3
3 12	12 3.21	− 5 44.3	0.899	1.882	6.5	15.9
3 22	11 57.78	− 1 17.1	0.883	1.879	1.1	15.6
4 1	11 52.55	+ 3 12.8	0.894	1.878	7.7	16.0
4 11	11 48.90	+ 7 16.2	0.931	1.879	14.1	16.3
4 21	11 47.76	+10 33.5	0.990	1.881	19.6	16.6

304856 2007 RA_{71} 3 20.1 111.°85 2.°5/17.7 18

2 11	12 23.84	+ 1 57.6	1.621	2.434	16.2	21.4
2 21	12 20.19	+ 3 4.0	1.550	2.444	12.5	21.1
3 2	12 14.01	+ 4 25.0	1.501	2.454	8.2	20.9
3 12	12 6.01	+ 5 53.1	1.479	2.464	3.8	20.7
3 22	11 57.16	+ 7 19.0	1.483	2.474	3.3	20.6
4 1	11 48.63	+ 8 33.5	1.516	2.483	7.4	20.9
4 11	11 41.49	+ 9 29.7	1.574	2.492	11.6	21.2
4 21	11 36.49	+10 4.2	1.654	2.501	15.3	21.4

116534 2004 BU_{57} 3 20.1 79.°99 4.°0/14.9 17

2 11	12 19.01	+ 7 43.2	2.154	2.973	12.5	19.5
2 21	12 15.87	+ 9 14.2	2.083	2.981	9.5	19.3
3 2	12 10.85	+10 52.9	2.037	2.988	6.4	19.1
3 12	12 4.49	+12 31.6	2.018	2.995	4.2	19.0
3 22	11 57.51	+14 2.5	2.029	3.003	4.9	19.0
4 1	11 50.73	+15 18.5	2.068	3.010	7.6	19.2
4 11	11 44.93	+16 14.8	2.133	3.018	10.6	19.4
4 21	11 40.68	+16 49.6	2.221	3.025	13.3	19.6

498814 2008 UT_{342} 3 20.1 170.°69 2.°8/23.8 17

2 11	12 22.38	−12 44.8	2.780	3.502	12.4	22.9
2 21	12 18.09	−12 36.1	2.680	3.507	10.2	22.7
3 2	12 12.17	−12 11.9	2.603	3.510	7.6	22.5
3 12	12 5.07	−11 33.4	2.552	3.513	4.8	22.4
3 22	11 57.38	−10 42.9	2.531	3.516	2.9	22.2
4 1	11 49.79	− 9 44.5	2.539	3.517	3.9	22.3
4 11	11 42.98	− 8 43.4	2.578	3.519	6.6	22.5
4 21	11 37.47	− 7 44.4	2.643	3.519	9.3	22.7

379752 2011 GN_{82} 3 20.1 335.°12 5.°0/15.7 18

2 11	12 24.74	+11 39.2	1.784	2.607	14.5	20.7
2 21	12 20.80	+12 23.7	1.706	2.603	11.3	20.4
3 2	12 14.41	+13 11.7	1.650	2.599	7.9	20.2
3 12	12 6.21	+13 56.0	1.621	2.596	5.3	20.1
3 22	11 57.13	+14 29.2	1.618	2.593	5.8	20.1
4 1	11 48.28	+14 45.5	1.642	2.589	8.8	20.2
4 11	11 40.72	+14 41.6	1.691	2.587	12.3	20.4
4 21	11 35.20	+14 17.6	1.761	2.584	15.5	20.6

331559 2001 DV_{24} 3 20.1 31°.08 0°.1/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.29	− 0 29.0	1.574	2.380	16.9	20.0
2 21	12 21.38	− 0 36.4	1.504	2.391	13.2	19.7
3 2	12 14.84	− 0 31.1	1.455	2.402	8.9	19.5
3 12	12 6.41	− 0 16.6	1.430	2.414	4.1	19.3
3 22	11 57.11	+ 0 2.4	1.431	2.427	0.9	19.1
4 1	11 48.16	+ 0 20.3	1.460	2.441	5.8	19.4
4 11	11 40.68	+ 0 31.8	1.514	2.455	10.3	19.7
4 21	11 35.43	+ 0 33.4	1.591	2.469	14.2	20.0

496841 1999 CV_{7} 3 20.1 8°.55 7°.6/23.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 34.21	− 8 58.8	1.327	2.101	21.1	19.4
2 21	12 29.25	−11 21.2	1.251	2.105	17.7	19.1
3 2	12 20.73	−13 31.6	1.195	2.111	13.7	18.9
3 12	12 9.35	−15 23.6	1.162	2.119	9.8	18.7
3 22	11 56.40	−16 51.8	1.155	2.129	7.6	18.6
4 1	11 43.62	−17 54.1	1.173	2.141	9.0	18.7
4 11	11 32.71	−18 34.2	1.216	2.154	12.5	18.9
4 21	11 24.86	−18 58.9	1.281	2.170	16.2	19.2

415951 2001 XU_{17} 3 20.1 106°.15 5°.1/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.57	−17 50.6	2.266	2.965	15.4	21.7
2 21	12 21.63	−18 7.1	2.188	2.990	13.0	21.5
3 2	12 14.64	−18 3.2	2.130	3.014	10.2	21.4
3 12	12 6.23	−17 38.7	2.097	3.037	7.3	21.3
3 22	11 57.17	−16 55.5	2.091	3.060	5.3	21.2
4 1	11 48.38	−15 58.1	2.114	3.082	5.6	21.2
4 11	11 40.71	−14 52.9	2.166	3.104	7.8	21.4
4 21	11 34.77	−13 46.6	2.243	3.125	10.5	21.6

295945 2008 XL_{45} 3 20.1 348°.54 2°.7/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.24	+ 3 4.4	1.940	2.757	13.7	20.1
2 21	12 14.80	+ 4 18.3	1.856	2.754	10.5	19.9
3 2	12 10.32	+ 5 44.9	1.796	2.750	6.9	19.7
3 12	12 4.34	+ 7 17.6	1.763	2.747	3.5	19.5
3 22	11 57.61	+ 8 48.3	1.757	2.745	3.5	19.5
4 1	11 51.02	+10 8.8	1.780	2.743	7.0	19.7
4 11	11 45.44	+11 12.4	1.829	2.741	10.6	19.9
4 21	11 41.53	+11 55.7	1.900	2.740	13.9	20.1

386625 2009 SH_{29} 3 20.1 116°.22 0°.3/19.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.73	− 1 56.7	2.069	2.855	14.1	22.8
2 21	12 19.55	− 1 24.0	1.991	2.868	11.0	22.6
3 2	12 13.33	− 0 38.2	1.937	2.881	7.3	22.4
3 12	12 5.66	+ 0 16.7	1.909	2.893	3.3	22.1
3 22	11 57.33	+ 1 15.0	1.909	2.905	1.0	22.0
4 1	11 49.24	+ 2 10.8	1.939	2.917	5.0	22.3
4 11	11 42.25	+ 2 58.2	1.997	2.928	8.8	22.5
4 21	11 36.98	+ 3 33.5	2.079	2.939	12.1	22.8

406411 2007 TZ_{137} 3 20.1 152°.38 1°.5/18.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.01	+ 1 9.4	1.880	2.678	14.9	21.9
2 21	12 21.58	+ 1 51.7	1.801	2.685	11.5	21.7
3 2	12 14.84	+ 2 46.4	1.744	2.692	7.6	21.5
3 12	12 6.40	+ 3 48.2	1.713	2.698	3.4	21.3
3 22	11 57.16	+ 4 50.6	1.711	2.704	2.2	21.2
4 1	11 48.16	+ 5 46.3	1.738	2.709	6.2	21.4
4 11	11 40.39	+ 6 29.5	1.791	2.714	10.2	21.7
4 21	11 34.56	+ 6 56.8	1.869	2.718	13.7	21.9

349014 2006 UC_{288} 3 20.1 316°.42 4°.5/25.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.08	−17 36.0	2.174	2.897	15.4	20.9
2 21	12 14.63	−17 18.8	2.067	2.887	13.0	20.7
3 2	12 10.21	−16 37.7	1.980	2.877	10.1	20.5
3 12	12 4.32	−15 32.8	1.917	2.868	7.1	20.3
3 22	11 57.63	−14 7.2	1.881	2.859	4.7	20.2
4 1	11 50.99	−12 26.4	1.872	2.850	5.2	20.2
4 11	11 45.26	−10 39.0	1.892	2.841	8.0	20.3
4 21	11 41.10	− 8 53.7	1.938	2.833	11.2	20.5

210989 2001 WP_{63} 3 20.1 221°.03 3°.4/16.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.84	+ 9 38.2	2.515	3.321	11.3	20.5
2 21	12 18.61	+10 18.6	2.427	3.317	8.7	20.3
3 2	12 12.61	+11 3.0	2.365	3.312	5.9	20.1
3 12	12 5.33	+11 46.1	2.330	3.308	3.7	20.0
3 22	11 57.43	+12 23.1	2.325	3.303	3.9	20.0
4 1	11 49.65	+12 49.5	2.348	3.298	6.4	20.1
4 11	11 42.75	+13 2.2	2.399	3.292	9.3	20.3
4 21	11 37.27	+13 0.1	2.474	3.287	11.9	20.5

206208 2002 UV_{75} 3 20.1 135°.80 0°.1/20.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.65	− 1 26.9	2.372	3.154	12.6	21.5
2 21	12 18.51	− 1 7.7	2.286	3.160	9.9	21.3
3 2	12 12.56	− 0 37.7	2.223	3.165	6.6	21.1
3 12	12 5.31	− 0 0.2	2.187	3.171	3.0	20.9
3 22	11 57.43	+ 0 40.7	2.180	3.176	0.8	20.7
4 1	11 49.72	+ 1 20.3	2.203	3.181	4.5	21.0
4 11	11 42.92	+ 1 54.0	2.254	3.185	7.9	21.2
4 21	11 37.60	+ 2 18.6	2.330	3.190	11.0	21.4

211885 2004 JA_{7} 3 20.1 264°.12 8°.4/ 6.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.05	+26 30.0	2.532	3.344	11.0	20.3
2 21	12 17.52	+28 22.9	2.461	3.329	9.5	20.2
3 2	12 12.05	+30 10.8	2.415	3.313	8.5	20.1
3 12	12 5.14	+31 45.3	2.396	3.297	8.6	20.1
3 22	11 57.46	+32 59.3	2.404	3.280	9.7	20.1
4 1	11 49.85	+33 47.7	2.437	3.264	11.4	20.2
4 11	11 43.13	+34 8.8	2.491	3.247	13.3	20.3
4 21	11 37.95	+34 3.9	2.564	3.230	15.0	20.4

52632 1997 WN_{21} 3 20.1 153°.84 7°.7/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.80	+22 3.4	2.219	3.031	12.4	18.7
2 21	12 21.91	+23 31.0	2.160	3.039	10.2	18.5
3 2	12 14.89	+24 54.0	2.127	3.046	8.4	18.4
3 12	12 6.37	+26 3.9	2.120	3.052	7.7	18.4
3 22	11 57.20	+26 53.8	2.140	3.059	8.7	18.5
4 1	11 48.33	+27 19.2	2.187	3.064	10.6	18.6
4 11	11 40.66	+27 19.1	2.257	3.069	12.8	18.8
4 21	11 34.80	+26 55.4	2.348	3.073	14.9	18.9

53976 2000 GY_{69} 3 20.1 352°.23 0°.4/20.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.46	− 3 5.8	1.302	2.117	19.3	19.1
2 21	12 20.71	− 2 53.7	1.223	2.115	15.3	18.8
3 2	12 14.87	− 2 21.3	1.164	2.113	10.5	18.5
3 12	12 6.62	− 1 32.7	1.127	2.112	4.9	18.2
3 22	11 57.11	− 0 34.8	1.115	2.111	1.0	17.9
4 1	11 47.81	+ 0 23.2	1.128	2.110	6.8	18.3
4 11	11 40.14	+ 1 11.9	1.165	2.110	12.2	18.6
4 21	11 35.08	+ 1 44.7	1.223	2.111	16.8	18.9

497567 2006 DD_{163} 3 20.1 190°.51 0°.2/20.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.60	− 3 37.2	2.218	2.998	13.5	21.8
2 21	12 17.91	− 3 4.6	2.125	2.997	10.6	21.6
3 2	12 12.28	− 2 17.9	2.055	2.997	7.2	21.4
3 12	12 5.23	− 1 20.4	2.012	2.995	3.4	21.1
3 22	11 57.45	− 0 17.2	1.998	2.994	0.7	20.9
4 1	11 49.80	+ 0 45.8	2.013	2.992	4.7	21.2
4 11	11 43.08	+ 1 42.6	2.056	2.990	8.4	21.4
4 21	11 37.93	+ 2 28.5	2.124	2.988	11.7	21.6

404181 2013 CL_{100} 3 20.1 38°.66 2°.1/17.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.75	+ 3 55.6	2.607	3.411	11.0	21.1
2 21	12 14.60	+ 4 51.9	2.522	3.412	8.4	21.0
3 2	12 9.89	+ 5 56.3	2.463	3.414	5.5	20.8
3 12	12 4.08	+ 7 4.0	2.432	3.416	2.7	20.6
3 22	11 57.73	+ 8 9.8	2.430	3.417	2.6	20.6
4 1	11 51.50	+ 9 8.3	2.457	3.419	5.3	20.8
4 11	11 46.04	+ 9 55.3	2.513	3.421	8.3	20.9
4 21	11 41.84	+10 28.4	2.592	3.423	10.9	21.1

210164 2006 SJ_{323} 3 20.1 53°.71 0°.4/20.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.20	− 5 21.2	2.284	3.063	13.2	20.6
2 21	12 15.20	− 4 34.2	2.194	3.065	10.4	20.4
3 2	12 10.42	− 3 31.6	2.128	3.068	7.0	20.2
3 12	12 4.35	− 2 17.0	2.088	3.071	3.4	20.0
3 22	11 57.66	− 0 55.8	2.077	3.073	0.7	19.7
4 1	11 51.10	+ 0 25.4	2.096	3.076	4.4	20.0
4 11	11 45.43	+ 1 40.2	2.143	3.079	8.0	20.3
4 21	11 41.20	+ 2 43.3	2.216	3.082	11.2	20.5

62193 2000 SS_{47} 3 20.1 82°.11 5°.2/26.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.67	−18 29.7	2.448	3.146	14.5	18.2
2 21	12 18.56	−18 53.8	2.365	3.163	12.3	18.1
3 2	12 12.61	−18 59.2	2.301	3.179	9.7	18.0
3 12	12 5.34	−18 45.2	2.262	3.196	7.2	17.8
3 22	11 57.44	−18 13.3	2.249	3.213	5.4	17.7
4 1	11 49.72	−17 27.0	2.265	3.229	5.5	17.8
4 11	11 42.94	−16 31.7	2.308	3.246	7.4	17.9
4 21	11 37.68	−15 33.4	2.378	3.262	9.8	18.1

304391 2006 SK_{403} 3 20.1 299°.35 3°.0/23.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.82	−11 49.0	2.263	3.011	14.1	20.8
2 21	12 15.86	−11 40.6	2.157	3.000	11.6	20.6
3 2	12 10.99	−11 14.0	2.072	2.989	8.6	20.3
3 12	12 4.68	−10 29.9	2.012	2.978	5.4	20.1
3 22	11 57.58	− 9 31.4	1.979	2.967	3.1	20.0
4 1	11 50.50	− 8 23.6	1.975	2.956	4.5	20.0
4 11	11 44.28	− 7 12.9	1.999	2.945	7.8	20.2
4 21	11 39.56	− 6 5.9	2.048	2.935	11.1	20.4

276497 2003 QQ_{28} 3 20.1 190°.01 1°.8/21.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.62	− 6 54.6	2.195	2.958	14.1	21.3
2 21	12 19.52	− 6 53.0	2.100	2.958	11.3	21.1
3 2	12 13.40	− 6 36.7	2.027	2.957	8.0	20.9
3 12	12 5.76	− 6 7.4	1.980	2.956	4.4	20.6
3 22	11 57.34	− 5 28.5	1.961	2.955	1.8	20.4
4 1	11 49.02	− 4 44.7	1.972	2.954	4.4	20.6
4 11	11 41.67	− 4 1.6	2.011	2.952	8.1	20.8
4 21	11 35.97	− 3 24.3	2.075	2.950	11.4	21.0

410047 2007 AU_9 3 20.1 112°.10 1°.5/21.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 27.06	− 6 51.2	2.226	2.982	14.1	22.2
2 21	12 21.90	− 6 37.1	2.152	3.007	11.2	22.1
3 2	12 14.78	− 6 8.2	2.101	3.031	7.8	21.9
3 12	12 6.30	− 5 27.0	2.077	3.054	4.1	21.7
3 22	11 57.24	− 4 37.9	2.082	3.076	1.5	21.5
4 1	11 48.49	− 3 45.9	2.117	3.098	4.3	21.8
4 11	11 40.85	− 2 56.7	2.181	3.119	7.8	22.0
4 21	11 34.91	− 2 14.9	2.271	3.139	10.9	22.2

286273 2001 VA_{77} 3 20.1 187°.75 10°.1/ 7.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.79	+27 46.9	2.096	2.900	13.3	21.1
2 21	12 24.63	+29 49.3	2.039	2.900	11.5	21.0
3 2	12 16.94	+31 43.7	2.007	2.899	10.3	20.9
3 12	12 7.40	+33 19.2	2.001	2.897	10.3	20.9
3 22	11 56.97	+34 27.0	2.021	2.894	11.4	20.9
4 1	11 46.80	+35 2.3	2.065	2.889	13.3	21.1
4 11	11 37.97	+35 4.7	2.131	2.884	15.3	21.2
4 21	11 31.26	+34 37.5	2.213	2.878	17.2	21.3

497746 2006 SE_{235} 3 20.1 102°.29 1°.8/22.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.33	− 9 19.6	2.439	3.193	13.1	21.3
2 21	12 15.93	− 8 51.5	2.350	3.202	10.5	21.1
3 2	12 10.83	− 8 7.3	2.284	3.211	7.5	21.0
3 12	12 4.52	− 7 9.3	2.245	3.219	4.2	20.8
3 22	11 57.64	− 6 1.5	2.234	3.227	1.8	20.6
4 1	11 50.91	− 4 49.6	2.254	3.236	3.9	20.8
4 11	11 45.04	− 3 39.4	2.301	3.244	7.1	21.0
4 21	11 40.56	− 2 36.2	2.375	3.252	10.1	21.2

455616 2004 TS_{277} 3 20.1 134°.46 0°.1/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.70	− 3 36.4	1.891	2.671	15.4	22.5
2 21	12 22.06	− 3 1.0	1.813	2.686	12.1	22.3
3 2	12 15.12	− 2 9.7	1.758	2.700	8.2	22.1
3 12	12 6.53	− 1 6.7	1.729	2.713	3.8	21.8
3 22	11 57.19	+ 0 1.9	1.729	2.725	0.8	21.6
4 1	11 48.13	+ 1 8.7	1.758	2.737	5.3	21.9
4 11	11 40.33	+ 2 7.0	1.815	2.748	9.4	22.2
4 21	11 34.48	+ 2 52.0	1.896	2.758	13.0	22.5

155799 2000 UO_{45} 3 20.1 177°.03 5°.7/13.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.19	+17 19.0	2.436	3.242	11.6	20.6
2 21	12 22.01	+18 18.0	2.362	3.245	9.2	20.4
3 2	12 14.88	+19 16.0	2.313	3.246	7.0	20.3
3 12	12 6.38	+20 6.1	2.292	3.247	5.7	20.2
3 22	11 57.25	+20 42.6	2.300	3.248	6.4	20.3
4 1	11 48.34	+21 1.2	2.336	3.248	8.5	20.4
4 11	11 40.46	+21 0.2	2.398	3.247	10.9	20.5
4 21	11 34.22	+20 40.1	2.482	3.246	13.2	20.7

344600 2003 DW_{23} 3 20.2 30°.47 4°.3/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 35.85	+13 25.9	1.771	2.576	15.4	20.0
2 21	12 29.14	+13 11.8	1.704	2.590	12.0	19.8
3 2	12 19.79	+12 55.8	1.661	2.605	8.3	19.7
3 12	12 8.62	+12 32.6	1.644	2.620	5.1	19.5
3 22	11 56.76	+11 58.4	1.656	2.637	4.8	19.5
4 1	11 45.48	+11 11.1	1.697	2.653	7.8	19.7
4 11	11 35.88	+10 10.9	1.765	2.671	11.3	20.0
4 21	11 28.64	+ 8 59.7	1.857	2.689	14.5	20.2

229728 2007 GX_{30} 3 20.2 22°.25 0°.4/20.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.43	− 3 39.1	1.726	2.522	16.0	21.1
2 21	12 18.31	− 3 16.3	1.643	2.525	12.6	20.8
3 2	12 12.81	− 2 36.6	1.583	2.527	8.6	20.6
3 12	12 5.56	− 1 43.8	1.546	2.530	4.1	20.3
3 22	11 57.43	− 0 43.8	1.537	2.533	0.8	20.1
4 1	11 49.49	+ 0 16.0	1.555	2.537	5.5	20.4
4 11	11 42.77	+ 1 8.5	1.600	2.540	9.9	20.7
4 21	11 38.02	+ 1 48.2	1.667	2.544	13.7	20.9

377242 2004 BY_{69} 3 20.2 64°.19 1°.5/18.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.02	+ 1 33.7	1.967	2.769	14.2	20.8
2 21	12 18.99	+ 2 14.7	1.906	2.794	10.9	20.6
3 2	12 12.92	+ 3 6.2	1.869	2.818	7.1	20.4
3 12	12 5.47	+ 4 2.8	1.858	2.843	3.2	20.2
3 22	11 57.47	+ 4 58.3	1.875	2.868	2.1	20.2
4 1	11 49.84	+ 5 46.8	1.921	2.893	5.7	20.5
4 11	11 43.39	+ 6 23.4	1.994	2.917	9.3	20.7
4 21	11 38.68	+ 6 45.5	2.090	2.942	12.4	21.0

288975 2004 TK_{42} 3 20.2 113°.49 0°.8/20.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.96	− 4 42.4	1.761	2.540	16.5	21.6
2 21	12 23.16	− 4 21.6	1.689	2.559	13.0	21.4
3 2	12 15.91	− 3 44.0	1.639	2.578	8.9	21.2
3 12	12 6.91	− 2 53.3	1.615	2.596	4.3	21.0
3 22	11 57.14	− 1 55.0	1.618	2.614	1.0	20.8
4 1	11 47.74	− 0 56.5	1.650	2.630	5.3	21.1
4 11	11 39.73	− 0 4.6	1.709	2.647	9.6	21.4
4 21	11 33.82	+ 0 35.6	1.792	2.662	13.2	21.7

199389 2006 BH_{254} 3 20.2 96°.87 1°.6/21.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 28.57	− 6 28.0	1.575	2.355	18.1	21.9
2 21	12 23.89	− 6 17.5	1.508	2.376	14.4	21.7
3 2	12 16.51	− 5 47.3	1.462	2.398	10.0	21.5
3 12	12 7.21	− 5 0.7	1.439	2.419	5.2	21.2
3 22	11 57.08	− 4 3.5	1.444	2.439	1.7	21.0
4 1	11 47.39	− 3 3.3	1.477	2.459	5.5	21.3
4 11	11 39.28	− 2 8.3	1.536	2.478	10.0	21.7
4 21	11 33.49	− 1 24.3	1.619	2.497	13.9	21.9

162562 2000 RA_{27} 3 20.2 156°.20 2°.5/22.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.09	−10 7.8	2.189	2.932	14.7	21.9
2 21	12 22.16	− 9 57.0	2.099	2.942	12.0	21.7
3 2	12 15.12	− 9 28.6	2.031	2.951	8.6	21.5
3 12	12 6.55	− 8 44.2	1.990	2.960	5.1	21.3
3 22	11 57.22	− 7 47.3	1.977	2.967	2.5	21.1
4 1	11 48.07	− 6 43.7	1.994	2.974	4.5	21.3
4 11	11 40.01	− 5 39.8	2.039	2.980	8.1	21.5
4 21	11 33.68	− 4 41.6	2.111	2.984	11.4	21.7

18019 Dascoli 3 20.2 131°.52 2°.1/18.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.62	+ 1 57.8	1.643	2.452	16.2	19.4
2 21	12 21.62	+ 2 43.9	1.568	2.459	12.5	19.2
3 2	12 15.05	+ 3 43.6	1.514	2.465	8.3	18.9
3 12	12 6.59	+ 4 50.4	1.486	2.472	3.8	18.7
3 22	11 57.23	+ 5 56.4	1.486	2.478	2.8	18.6
4 1	11 48.15	+ 6 53.5	1.513	2.484	7.0	18.9
4 11	11 40.47	+ 7 35.3	1.566	2.490	11.3	19.2
4 21	11 34.95	+ 7 58.5	1.642	2.495	15.1	19.4

277402 2005 UR_{181} 3 20.2 64°.37 2°.3/18.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.52	+ 3 37.6	1.782	2.594	15.0	21.0
2 21	12 19.80	+ 4 17.0	1.705	2.599	11.6	20.7
3 2	12 13.74	+ 5 7.0	1.651	2.603	7.6	20.5
3 12	12 5.96	+ 6 1.7	1.623	2.608	3.6	20.3
3 22	11 57.37	+ 6 54.3	1.622	2.613	3.0	20.2
4 1	11 49.03	+ 7 37.8	1.649	2.618	6.8	20.5
4 11	11 41.93	+ 8 7.1	1.702	2.623	10.7	20.7
4 21	11 36.79	+ 8 19.4	1.777	2.628	14.2	21.0

167542 2004 AQ_6 3 20.2 164°.99 1°.8/18.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.68	+ 3 15.6	2.378	3.176	12.1	21.0
2 21	12 17.79	+ 3 58.3	2.292	3.179	9.3	20.8
3 2	12 12.12	+ 4 49.6	2.231	3.181	6.1	20.6
3 12	12 5.15	+ 5 45.0	2.198	3.183	2.9	20.4
3 22	11 57.56	+ 6 39.1	2.194	3.184	2.4	20.4
4 1	11 50.12	+ 7 26.7	2.219	3.186	5.5	20.6
4 11	11 43.58	+ 8 3.3	2.272	3.187	8.7	20.8
4 21	11 38.49	+ 8 26.5	2.349	3.188	11.6	21.0

135136 2001 QT_{182} 3 20.2 149°.77 4°.7/13.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.06	+14 14.6	2.648	3.460	10.6	20.5
2 21	12 17.89	+15 22.3	2.578	3.467	8.3	20.3
3 2	12 12.06	+16 31.1	2.533	3.474	6.0	20.2
3 12	12 5.09	+17 35.0	2.517	3.480	4.7	20.1
3 22	11 57.59	+18 28.4	2.530	3.486	5.4	20.2
4 1	11 50.27	+19 6.8	2.571	3.492	7.4	20.3
4 11	11 43.82	+19 28.0	2.639	3.497	9.8	20.5
4 21	11 38.73	+19 31.5	2.729	3.502	11.9	20.6

13415 Stevenbland 3 20.2 252°.75 0°.6/20.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.21	− 3 48.5	1.871	2.654	15.5	19.5
2 21	12 21.32	− 3 33.3	1.765	2.638	12.3	19.3
3 2	12 14.95	− 3 2.0	1.681	2.622	8.5	19.0
3 12	12 6.64	− 2 17.4	1.622	2.605	4.1	18.7
3 22	11 57.20	− 1 24.1	1.591	2.587	0.9	18.4
4 1	11 47.71	− 0 28.6	1.589	2.569	5.5	18.7
4 11	11 39.29	+ 0 21.9	1.613	2.551	10.0	18.9
4 21	11 32.81	+ 1 1.6	1.662	2.532	14.1	19.1

413273 2003 UM_{36} 3 20.2 218°.58 1°.9/21.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.03	− 6 1.7	2.157	2.913	14.6	21.9
2 21	12 24.70	− 6 13.6	2.049	2.903	11.8	21.7
3 2	12 17.03	− 6 12.1	1.963	2.892	8.4	21.4
3 12	12 7.53	− 5 58.4	1.904	2.880	4.6	21.2
3 22	11 57.00	− 5 34.8	1.874	2.868	1.9	21.0
4 1	11 46.45	− 5 5.6	1.874	2.854	4.8	21.2
4 11	11 36.90	− 4 36.0	1.903	2.840	8.8	21.4
4 21	11 29.16	− 4 10.7	1.957	2.825	12.4	21.6

116668 2004 CQ_{42} 3 20.2 285°.82 2°.6/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.94	+ 1 35.4	1.332	2.159	18.3	20.0
2 21	12 20.40	+ 2 27.5	1.245	2.146	14.3	19.7
3 2	12 14.78	+ 3 38.6	1.178	2.133	9.5	19.4
3 12	12 6.68	+ 5 1.8	1.134	2.121	4.4	19.1
3 22	11 57.19	+ 6 26.9	1.116	2.108	3.5	19.0
4 1	11 47.74	+ 7 42.2	1.123	2.095	8.6	19.2
4 11	11 39.81	+ 8 38.0	1.153	2.083	13.9	19.5
4 21	11 34.45	+ 9 9.1	1.204	2.071	18.5	19.7

90801 1994 VU_5 3 20.2 36.°00 0.°6/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.36	− 0 31.6	1.301	2.120	19.1	19.5
2 21	12 22.08	− 0 17.3	1.230	2.125	15.0	19.2
3 2	12 15.71	+ 0 13.9	1.179	2.130	10.0	18.9
3 12	12 7.00	+ 0 57.0	1.150	2.136	4.5	18.6
3 22	11 57.15	+ 1 44.7	1.147	2.142	1.5	18.4
4 1	11 47.63	+ 2 28.2	1.169	2.149	7.0	18.8
4 11	11 39.84	+ 2 59.9	1.215	2.156	12.2	19.1
4 21	11 34.67	+ 3 15.2	1.282	2.163	16.7	19.4

320399 2007 UY_{105} 3 20.2 0.°60 2.°3/17.8 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.95	+ 3 25.2	1.836	2.655	14.3	19.9
2 21	12 16.24	+ 4 10.8	1.756	2.653	11.1	19.6
3 2	12 11.36	+ 5 7.4	1.699	2.653	7.3	19.4
3 12	12 4.88	+ 6 9.3	1.667	2.652	3.5	19.2
3 22	11 57.63	+ 7 9.4	1.663	2.653	3.0	19.1
4 1	11 50.56	+ 8 0.6	1.686	2.654	6.7	19.4
4 11	11 44.59	+ 8 37.5	1.734	2.656	10.5	19.6
4 21	11 40.41	+ 8 57.0	1.805	2.658	13.9	19.8

301534 2009 FD_{44} 3 20.2 303.°55 1.°5/18.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.97	+ 3 44.6	2.207	3.005	12.9	20.6
2 21	12 19.83	+ 3 55.1	2.108	2.994	10.0	20.3
3 2	12 13.64	+ 4 12.8	2.034	2.982	6.7	20.1
3 12	12 5.92	+ 4 34.2	1.986	2.971	3.1	19.9
3 22	11 57.39	+ 4 55.0	1.967	2.960	2.0	19.8
4 1	11 48.92	+ 5 10.7	1.977	2.949	5.5	20.0
4 11	11 41.40	+ 5 17.6	2.014	2.938	9.2	20.2
4 21	11 35.51	+ 5 13.3	2.076	2.927	12.4	20.4

20285 Lubin 3 20.2 121.°74 0.°4/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.85	− 3 3.9	1.727	2.521	16.1	18.9
2 21	12 20.11	− 2 14.5	1.651	2.532	12.6	18.7
3 2	12 13.97	− 1 7.4	1.596	2.542	8.4	18.4
3 12	12 6.08	+ 0 12.3	1.567	2.552	3.8	18.2
3 22	11 57.37	+ 1 36.8	1.566	2.562	1.2	18.0
4 1	11 48.93	+ 2 57.6	1.593	2.571	5.9	18.3
4 11	11 41.80	+ 4 6.6	1.647	2.580	10.2	18.6
4 21	11 36.67	+ 4 58.7	1.725	2.588	14.0	18.8

939 Isberga 3 20.2 215.°09 0.°9/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.16	− 4 37.9	1.836	2.614	15.9	16.4
2 21	12 22.80	− 4 23.8	1.738	2.607	12.7	16.2
3 2	12 15.92	− 3 53.1	1.661	2.599	8.8	15.9
3 12	12 7.07	− 3 8.2	1.609	2.591	4.4	15.6
3 22	11 57.14	− 2 14.1	1.586	2.582	1.0	15.4
4 1	11 47.24	− 1 17.3	1.591	2.572	5.4	15.6
4 11	11 38.53	− 0 25.1	1.623	2.561	9.9	15.9
4 21	11 31.85	+ 0 16.6	1.680	2.550	14.0	16.1

480749 2016 NM_{29} 3 20.2 343.°66 7.°1/28.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.84	−23 20.4	2.228	2.907	16.2	20.9
2 21	12 16.83	−23 49.6	2.129	2.905	14.1	20.8
3 2	12 11.74	−23 55.8	2.047	2.903	11.8	20.6
3 12	12 5.09	−23 37.1	1.987	2.901	9.4	20.4
3 22	11 57.59	−22 53.5	1.952	2.899	7.5	20.3
4 1	11 50.15	−21 48.5	1.944	2.897	7.2	20.3
4 11	11 43.67	−20 28.5	1.961	2.896	8.7	20.4
4 21	11 38.84	−19 1.4	2.004	2.895	11.1	20.5

431634 2007 XT_{11} 3 20.2 133.°99 4.°1/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.46	+12 15.0	2.546	3.354	11.1	21.7
2 21	12 18.99	+13 6.7	2.475	3.364	8.6	21.6
3 2	12 12.81	+14 0.2	2.428	3.373	6.0	21.4
3 12	12 5.44	+14 50.0	2.410	3.381	4.2	21.3
3 22	11 57.55	+15 31.0	2.422	3.390	4.7	21.4
4 1	11 49.87	+15 58.9	2.462	3.398	6.9	21.5
4 11	11 43.11	+16 11.2	2.529	3.406	9.5	21.7
4 21	11 37.79	+16 7.5	2.619	3.413	11.8	21.9

124686 2001 SD_{118} 3 20.2 84.°75 2.°8/22.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.00	−10 0.9	1.469	2.245	19.3	20.6
2 21	12 22.13	− 9 46.1	1.402	2.265	15.6	20.4
3 2	12 15.46	− 9 6.6	1.355	2.286	11.1	20.1
3 12	12 6.79	− 8 5.0	1.331	2.306	6.3	19.9
3 22	11 57.25	− 6 47.9	1.333	2.326	2.8	19.8
4 1	11 48.13	− 5 24.3	1.363	2.346	5.7	20.0
4 11	11 40.64	− 4 4.5	1.418	2.365	10.2	20.3
4 21	11 35.54	− 2 56.6	1.496	2.384	14.3	20.6

12744 1992 SQ 3 20.2 154.°86 2.°1/21.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.28	− 7 50.1	1.672	2.444	17.5	18.7
2 21	12 22.99	− 7 40.3	1.588	2.451	14.1	18.5
3 2	12 16.05	− 7 10.3	1.525	2.457	10.0	18.2
3 12	12 7.11	− 6 22.1	1.485	2.462	5.4	18.0
3 22	11 57.16	− 5 20.6	1.473	2.467	2.1	17.7
4 1	11 47.43	− 4 13.4	1.489	2.471	5.5	18.0
4 11	11 39.08	− 3 8.9	1.532	2.475	10.0	18.2
4 21	11 32.94	− 2 14.2	1.598	2.478	14.0	18.5

162654 2000 SY_{232} 3 20.2 196.°49 3.°4/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 36.84	+ 9 21.7	1.951	2.742	14.6	20.2
2 21	12 30.06	+ 9 29.9	1.860	2.740	11.5	19.9
3 2	12 20.61	+ 9 40.9	1.793	2.737	7.8	19.7
3 12	12 9.17	+ 9 49.6	1.753	2.733	4.3	19.5
3 22	11 56.72	+ 9 50.9	1.743	2.729	3.9	19.4
4 1	11 44.50	+ 9 40.4	1.764	2.724	7.3	19.6
4 11	11 33.67	+ 9 16.1	1.812	2.718	11.1	19.9
4 21	11 25.07	+ 8 38.0	1.886	2.711	14.6	20.1

332748 2009 TF_{27} 3 20.2 127.°49 0.°9/19.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.70	− 2 24.3	2.027	2.819	14.1	20.7
2 21	12 17.35	− 1 17.0	1.945	2.826	11.0	20.5
3 2	12 11.98	+ 0 6.4	1.886	2.833	7.3	20.3
3 12	12 5.16	+ 1 40.4	1.855	2.840	3.2	20.0
3 22	11 57.63	+ 3 17.6	1.852	2.847	1.5	19.9
4 1	11 50.30	+ 4 49.9	1.879	2.853	5.5	20.2
4 11	11 44.01	+ 6 9.8	1.933	2.859	9.4	20.4
4 21	11 39.39	+ 7 12.8	2.012	2.865	12.7	20.7

166772 2002 VH_{17} 3 20.2 141.°03 1.°6/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.34	+ 3 30.8	2.688	3.479	11.1	20.5
2 21	12 18.04	+ 4 9.7	2.607	3.489	8.5	20.4
3 2	12 12.15	+ 4 55.7	2.551	3.499	5.6	20.2
3 12	12 5.15	+ 5 44.7	2.524	3.508	2.6	20.0
3 22	11 57.64	+ 6 32.2	2.527	3.517	2.1	20.0
4 1	11 50.31	+ 7 13.9	2.560	3.526	4.9	20.2
4 11	11 43.79	+ 7 46.0	2.621	3.534	7.8	20.4
4 21	11 38.59	+ 8 6.4	2.708	3.542	10.4	20.6

345242 2005 UF_{283} 3 20.2 246.°91 3.°8/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.41	+ 5 42.7	1.383	2.211	17.7	20.8
2 21	12 22.83	+ 6 30.9	1.309	2.210	13.7	20.5
3 2	12 16.20	+ 7 31.1	1.255	2.210	9.2	20.2
3 12	12 7.26	+ 8 35.0	1.225	2.209	4.9	20.0
3 22	11 57.15	+ 9 33.0	1.221	2.209	4.7	20.0
4 1	11 47.33	+10 16.0	1.243	2.208	9.0	20.2
4 11	11 39.14	+10 37.9	1.288	2.207	13.6	20.5
4 21	11 33.52	+10 36.7	1.354	2.207	17.7	20.7

352008 2006 UK_{329} 3 20.2 148.°74 5.°6/27.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.21	−21 59.5	2.768	3.436	13.5	20.9
2 21	12 17.38	−22 19.1	2.669	3.441	11.7	20.7
3 2	12 11.84	−22 20.0	2.589	3.445	9.6	20.6
3 12	12 5.07	−22 1.3	2.534	3.450	7.5	20.4
3 22	11 57.65	−21 23.9	2.505	3.454	5.9	20.4
4 1	11 50.32	−20 30.7	2.503	3.458	5.8	20.3
4 11	11 43.79	−19 26.5	2.530	3.462	7.2	20.4
4 21	11 38.60	−18 17.3	2.584	3.465	9.3	20.6

434049 2001 TK_{241} 3 20.2 82.°02 8.°3/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.86	+26 41.4	2.307	3.107	12.4	21.2
2 21	12 24.12	+27 35.7	2.255	3.119	10.4	21.1
3 2	12 16.27	+28 21.0	2.228	3.131	8.8	21.0
3 12	12 7.02	+28 50.0	2.226	3.143	8.3	21.0
3 22	11 57.25	+28 57.5	2.251	3.155	9.0	21.1
4 1	11 47.93	+28 41.1	2.302	3.167	10.6	21.2
4 11	11 39.92	+28 1.3	2.376	3.179	12.5	21.3
4 21	11 33.79	+27 1.3	2.472	3.191	14.4	21.5

499165 2009 SV_{67} 3 20.2 129.°60 1.°3/18.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.44	+ 0 58.3	2.025	2.822	14.0	22.0
2 21	12 19.46	+ 1 38.9	1.945	2.829	10.8	21.8
3 2	12 13.38	+ 2 31.2	1.888	2.837	7.1	21.6
3 12	12 5.80	+ 3 30.2	1.858	2.844	3.2	21.3
3 22	11 57.51	+ 4 29.9	1.857	2.851	1.9	21.3
4 1	11 49.43	+ 5 23.8	1.885	2.857	5.7	21.5
4 11	11 42.45	+ 6 6.5	1.939	2.863	9.5	21.7
4 21	11 37.20	+ 6 34.7	2.018	2.869	12.8	22.0

489451 2007 BZ_2 3 20.2 17.°57 3.°4/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.82	+ 3 58.6	1.218	2.052	19.2	21.2
2 21	12 21.92	+ 4 44.2	1.148	2.054	14.9	20.9
3 2	12 15.75	+ 5 44.8	1.098	2.055	9.9	20.6
3 12	12 7.10	+ 6 52.0	1.071	2.057	4.9	20.3
3 22	11 57.21	+ 7 55.4	1.069	2.059	4.2	20.3
4 1	11 47.66	+ 8 44.5	1.091	2.062	9.1	20.6
4 11	11 39.91	+ 9 12.0	1.136	2.065	14.1	20.9
4 21	11 34.93	+ 9 15.4	1.200	2.068	18.5	21.1

133960 2004 TK_{134} 3 20.2 77.°87 2.°1/18.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.22	+ 4 1.2	1.935	2.738	14.3	20.1
2 21	12 21.53	+ 4 31.2	1.872	2.759	11.0	20.0
3 2	12 14.68	+ 5 9.5	1.831	2.781	7.2	19.8
3 12	12 6.34	+ 5 50.7	1.818	2.802	3.4	19.6
3 22	11 57.41	+ 6 29.2	1.832	2.823	2.6	19.5
4 1	11 48.86	+ 6 59.6	1.876	2.845	6.1	19.8
4 11	11 41.57	+ 7 17.8	1.946	2.865	9.7	20.1
4 21	11 36.16	+ 7 22.0	2.040	2.886	12.8	20.3

195100 2002 CX_{128} 3 20.2 257°.21 1°.9/21.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.79	− 7 8.7	1.933	2.706	15.4	20.4
2 21	12 19.21	− 7 3.4	1.840	2.704	12.4	20.2
3 2	12 13.39	− 6 41.1	1.769	2.702	8.8	20.0
3 12	12 5.88	− 6 3.7	1.723	2.700	4.8	19.7
3 22	11 57.49	− 5 15.1	1.705	2.699	1.9	19.5
4 1	11 49.20	− 4 21.2	1.714	2.697	4.9	19.7
4 11	11 42.01	− 3 28.9	1.751	2.695	8.9	20.0
4 21	11 36.63	− 2 43.8	1.812	2.693	12.6	20.2

456803 2007 TN_{270} 3 20.2 195°.66 0°.4/20.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.79	− 3 32.1	2.086	2.860	14.4	22.7
2 21	12 22.14	− 3 9.8	1.990	2.858	11.4	22.5
3 2	12 15.27	− 2 33.1	1.915	2.854	7.8	22.2
3 12	12 6.73	− 1 45.1	1.868	2.850	3.7	22.0
3 22	11 57.30	− 0 50.4	1.849	2.845	0.7	21.7
4 1	11 47.96	+ 0 4.8	1.860	2.839	5.0	22.0
4 11	11 39.68	+ 0 54.3	1.900	2.833	9.0	22.3
4 21	11 33.18	+ 1 33.5	1.964	2.825	12.6	22.5

461413 2001 TC_{132} 3 20.2 144°.85 1°.4/21.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.09	− 8 20.4	2.273	3.029	13.9	22.4
2 21	12 18.98	− 7 45.8	2.186	3.040	11.1	22.2
3 2	12 12.97	− 6 54.1	2.121	3.050	7.8	22.0
3 12	12 5.59	− 5 48.3	2.083	3.059	4.2	21.8
3 22	11 57.57	− 4 33.0	2.074	3.068	1.4	21.6
4 1	11 49.73	− 3 14.6	2.095	3.077	4.2	21.8
4 11	11 42.87	− 1 59.7	2.145	3.084	7.8	22.1
4 21	11 37.57	− 0 53.9	2.221	3.092	11.0	22.3

259545 2003 UQ_{98} 3 20.2 110°.66 4°.5/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.93	+ 8 26.6	1.706	2.526	15.2	20.5
2 21	12 21.72	+ 9 33.9	1.641	2.538	11.7	20.3
3 2	12 15.04	+10 48.4	1.599	2.550	7.9	20.1
3 12	12 6.59	+12 1.7	1.582	2.561	4.9	20.0
3 22	11 57.36	+13 5.3	1.594	2.572	5.3	20.0
4 1	11 48.49	+13 51.8	1.632	2.583	8.6	20.2
4 11	11 41.02	+14 17.0	1.696	2.594	12.2	20.4
4 21	11 35.65	+14 20.2	1.781	2.604	15.4	20.7

402486 2006 CA_{35} 3 20.2 335°.04 2°.6/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.86	+ 0 56.1	1.355	2.183	18.0	21.0
2 21	12 18.57	+ 2 3.8	1.278	2.180	14.0	20.7
3 2	12 13.40	+ 3 31.3	1.221	2.177	9.2	20.4
3 12	12 6.01	+ 5 10.6	1.187	2.174	4.3	20.1
3 22	11 57.47	+ 6 50.6	1.180	2.171	3.5	20.1
4 1	11 49.13	+ 8 19.2	1.198	2.169	8.4	20.4
4 11	11 42.30	+ 9 26.7	1.240	2.167	13.3	20.6
4 21	11 37.88	+10 8.3	1.302	2.166	17.6	20.9

329369 2001 UO_{166} 3 20.2 240°.14 2°.3/18.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.74	+ 3 56.6	1.853	2.661	14.7	21.2
2 21	12 20.80	+ 4 31.4	1.766	2.657	11.4	21.0
3 2	12 14.49	+ 5 16.3	1.701	2.652	7.5	20.7
3 12	12 6.40	+ 6 6.0	1.663	2.648	3.6	20.5
3 22	11 57.40	+ 6 53.9	1.652	2.643	2.9	20.4
4 1	11 48.54	+ 7 33.5	1.669	2.638	6.7	20.6
4 11	11 40.86	+ 7 59.5	1.713	2.633	10.7	20.8
4 21	11 35.11	+ 8 9.1	1.779	2.627	14.3	21.1

329102 2011 BM_{123} 3 20.2 215°.90 2°.7/17.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.91	+ 5 9.4	2.178	2.981	12.9	21.3
2 21	12 19.81	+ 5 58.5	2.086	2.974	10.0	21.1
3 2	12 13.65	+ 6 56.3	2.018	2.968	6.6	20.9
3 12	12 5.97	+ 7 57.5	1.978	2.961	3.4	20.7
3 22	11 57.50	+ 8 55.7	1.966	2.953	3.3	20.6
4 1	11 49.13	+ 9 44.9	1.984	2.945	6.5	20.8
4 11	11 41.74	+10 20.1	2.029	2.937	10.0	21.0
4 21	11 36.00	+10 39.0	2.097	2.928	13.1	21.2

131306 2001 FE_{152} 3 20.2 313°.42 3°.2/17.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.33	+ 5 37.2	1.886	2.703	14.1	19.7
2 21	12 18.11	+ 6 29.1	1.801	2.697	10.9	19.5
3 2	12 12.67	+ 7 30.7	1.738	2.691	7.2	19.3
3 12	12 5.57	+ 8 35.5	1.702	2.685	3.9	19.1
3 22	11 57.61	+ 9 36.4	1.693	2.679	3.9	19.0
4 1	11 49.79	+10 26.3	1.712	2.674	7.3	19.2
4 11	11 43.07	+10 59.7	1.757	2.668	11.0	19.4
4 21	11 38.17	+11 14.3	1.823	2.663	14.4	19.6

72529 2001 DT_{96} 3 20.2 131°.53 4°.4/24.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.48	−13 57.4	1.835	2.576	17.3	19.9
2 21	12 21.42	−14 6.6	1.750	2.585	14.3	19.7
3 2	12 14.93	−13 53.6	1.684	2.594	10.8	19.5
3 12	12 6.61	−13 18.4	1.642	2.602	7.2	19.3
3 22	11 57.39	−12 24.0	1.627	2.610	4.5	19.1
4 1	11 48.36	−11 16.2	1.639	2.617	5.6	19.2
4 11	11 40.59	−10 3.2	1.679	2.625	9.0	19.4
4 21	11 34.84	− 8 53.3	1.743	2.631	12.6	19.7

345577 2006 SD_{8} 3 20.2 148°.00 2°.8/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 19.40	−13 4.1	2.553	3.286	13.1	20.7
2 21	12 16.02	−12 44.6	2.457	3.289	10.8	20.5
3 2	12 10.96	−12 7.6	2.382	3.293	8.0	20.3
3 12	12 4.69	−11 14.5	2.333	3.296	5.1	20.2
3 22	11 57.82	−10 8.5	2.313	3.299	2.9	20.0
4 1	11 51.07	− 8 54.5	2.322	3.302	4.0	20.1
4 11	11 45.12	− 7 38.6	2.360	3.304	6.9	20.3
4 21	11 40.51	− 6 26.5	2.424	3.307	9.7	20.5

191799 2004 TL_{205} 3 20.2 155°.28 2°.4/23.2 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.37	−11 5.6	2.476	3.215	13.3	20.8
2 21	12 18.33	−10 46.9	2.383	3.222	10.8	20.6
3 2	12 12.51	−10 11.5	2.312	3.229	7.9	20.4
3 12	12 5.40	− 9 21.1	2.267	3.235	4.7	20.2
3 22	11 57.67	− 8 19.1	2.251	3.241	2.4	20.1
4 1	11 50.08	− 7 10.5	2.265	3.246	4.0	20.2
4 11	11 43.36	− 6 1.5	2.309	3.251	7.1	20.4
4 21	11 38.08	− 4 57.5	2.378	3.255	10.1	20.6

155564 1999 VD_{204} 3 20.2 243°.75 5°.5/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.53	−17 49.8	2.282	2.987	15.2	19.9
2 21	12 19.68	−18 13.6	2.171	2.975	13.0	19.7
3 2	12 13.71	−18 17.9	2.079	2.963	10.4	19.5
3 12	12 6.08	−18 1.2	2.011	2.950	7.6	19.3
3 22	11 57.50	−17 24.3	1.969	2.937	5.7	19.2
4 1	11 48.87	−16 30.4	1.956	2.924	6.0	19.2
4 11	11 41.13	−15 25.4	1.970	2.910	8.3	19.3
4 21	11 35.02	−14 16.5	2.010	2.896	11.3	19.4

376576 2013 PD_{16} 3 20.2 201°.84 3°.6/23.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.21	−10 23.3	2.130	2.871	15.2	21.3
2 21	12 23.32	−10 53.9	2.030	2.868	12.5	21.1
3 2	12 16.13	−11 9.3	1.951	2.865	9.3	20.9
3 12	12 7.18	−11 9.1	1.897	2.861	5.9	20.6
3 22	11 57.27	−10 54.8	1.872	2.857	3.6	20.5
4 1	11 47.39	−10 29.7	1.876	2.853	5.1	20.6
4 11	11 38.54	− 9 59.1	1.908	2.849	8.5	20.8
4 21	11 31.51	− 9 28.6	1.965	2.844	11.8	21.0

221896 2008 KO_{9} 3 20.2 186°.17 2°.1/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.24	+ 2 41.1	1.822	2.630	14.8	20.9
2 21	12 19.63	+ 3 25.0	1.739	2.630	11.5	20.7
3 2	12 13.70	+ 4 20.6	1.679	2.630	7.6	20.5
3 12	12 6.05	+ 5 22.5	1.645	2.630	3.5	20.2
3 22	11 57.54	+ 6 23.4	1.639	2.630	2.8	20.2
4 1	11 49.21	+ 7 16.2	1.660	2.630	6.6	20.4
4 11	11 42.06	+ 7 55.0	1.708	2.629	10.7	20.6
4 21	11 36.83	+ 8 16.6	1.778	2.629	14.2	20.9

100905 1998 KY_{11} 3 20.2 337°.07 0°.3/20.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.62	− 5 38.2	2.320	3.098	13.0	19.5
2 21	12 14.80	− 4 44.4	2.226	3.097	10.2	19.3
3 2	12 10.23	− 3 34.3	2.155	3.095	7.0	19.1
3 12	12 4.39	− 2 11.5	2.111	3.094	3.3	18.9
3 22	11 57.91	− 0 41.9	2.096	3.092	0.6	18.7
4 1	11 51.53	+ 0 48.0	2.111	3.091	4.4	19.0
4 11	11 46.00	+ 2 11.1	2.155	3.090	8.0	19.2
4 21	11 41.87	+ 3 22.1	2.224	3.089	11.2	19.4

276025 2002 AV_{54} 3 20.2 155°.93 6°.1/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.74	+14 0.6	2.052	2.875	12.9	20.8
2 21	12 18.99	+15 37.0	1.984	2.879	10.1	20.6
3 2	12 13.12	+17 16.3	1.940	2.883	7.5	20.5
3 12	12 5.74	+18 49.7	1.924	2.886	6.1	20.4
3 22	11 57.63	+20 8.8	1.936	2.889	7.1	20.5
4 1	11 49.73	+21 6.9	1.976	2.892	9.5	20.6
4 11	11 42.94	+21 40.6	2.039	2.895	12.3	20.8
4 21	11 37.90	+21 49.9	2.124	2.897	14.9	21.0

435038 2006 WX_{33} 3 20.2 150°.16 4°.1/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.86	+12 26.2	2.603	3.414	10.8	21.4
2 21	12 17.80	+13 20.4	2.527	3.417	8.4	21.3
3 2	12 12.08	+14 16.7	2.477	3.421	5.9	21.1
3 12	12 5.19	+15 9.5	2.454	3.424	4.2	21.0
3 22	11 57.75	+15 53.6	2.461	3.427	4.8	21.0
4 1	11 50.49	+16 24.7	2.496	3.430	6.9	21.2
4 11	11 44.08	+16 40.2	2.558	3.433	9.4	21.3
4 21	11 39.05	+16 39.4	2.643	3.436	11.8	21.5

426164 2012 HN_{77} 3 20.2 39°.58 5°.6/26.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.15	−18 34.7	1.795	2.522	18.0	20.9
2 21	12 17.45	−18 33.0	1.704	2.525	15.3	20.7
3 2	12 12.36	−18 3.9	1.632	2.527	12.0	20.5
3 12	12 5.49	−17 6.8	1.582	2.530	8.6	20.3
3 22	11 57.69	−15 44.7	1.558	2.533	5.9	20.1
4 1	11 50.03	−14 4.1	1.560	2.536	6.2	20.2
4 11	11 43.57	−12 15.3	1.589	2.539	9.1	20.3
4 21	11 39.07	−10 28.6	1.643	2.542	12.6	20.6

413480 2005 JO_{28} 3 20.2 75°.10 10°.0/10.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.63	+22 25.5	1.595	2.425	15.6	20.7
2 21	12 22.63	+24 8.3	1.544	2.432	12.9	20.5
3 2	12 15.83	+25 45.1	1.515	2.439	10.7	20.4
3 12	12 7.03	+27 3.9	1.510	2.445	10.0	20.4
3 22	11 57.37	+27 54.9	1.531	2.452	11.2	20.5
4 1	11 48.16	+28 12.5	1.574	2.459	13.6	20.6
4 11	11 40.58	+27 56.6	1.639	2.466	16.2	20.8
4 21	11 35.40	+27 10.9	1.722	2.473	18.6	21.0

366854 2005 SQ_{13} 3 20.2 151°.71 0°.2/20.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.65	− 4 4.8	2.313	3.085	13.2	22.1
2 21	12 19.39	− 3 28.3	2.227	3.094	10.4	22.0
3 2	12 13.25	− 2 37.9	2.164	3.102	7.0	21.8
3 12	12 5.77	− 1 37.2	2.128	3.110	3.3	21.5
3 22	11 57.64	− 0 31.2	2.121	3.117	0.6	21.3
4 1	11 49.69	+ 0 34.4	2.145	3.124	4.5	21.6
4 11	11 42.69	+ 1 33.6	2.198	3.130	8.0	21.9
4 21	11 37.23	+ 2 22.1	2.276	3.135	11.2	22.1

306614 2000 QL_2 3 20.2 106°.47 11°.1/ 1.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 34.07	−32 48.4	2.074	2.663	19.4	20.7
2 21	12 28.22	−34 10.2	2.001	2.691	17.6	20.6
3 2	12 19.57	−35 4.4	1.944	2.718	15.5	20.5
3 12	12 8.79	−35 25.6	1.906	2.744	13.4	20.4
3 22	11 56.96	−35 11.6	1.890	2.769	11.8	20.3
4 1	11 45.39	−34 24.1	1.899	2.793	11.1	20.3
4 11	11 35.32	−33 9.9	1.932	2.816	11.6	20.4
4 21	11 27.64	−31 39.1	1.989	2.838	13.0	20.5

100727 1998 BF_{45} 3 20.2 112°.34 3°.1/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.76	+ 7 10.7	2.469	3.277	11.4	19.6
2 21	12 16.99	+ 8 17.6	2.398	3.290	8.7	19.5
3 2	12 11.56	+ 9 30.5	2.352	3.302	5.8	19.3
3 12	12 4.95	+10 43.6	2.335	3.314	3.4	19.2
3 22	11 57.83	+11 51.0	2.347	3.326	3.8	19.2
4 1	11 50.90	+12 47.3	2.388	3.338	6.3	19.4
4 11	11 44.86	+13 28.6	2.456	3.349	9.1	19.6
4 21	11 40.21	+13 53.5	2.548	3.360	11.6	19.8

119525 2001 UC_{169} 3 20.2 188°.09 2°.3/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.49	+ 6 0.3	2.327	3.119	12.5	18.7
2 21	12 23.16	+ 6 22.6	2.236	3.118	9.7	18.6
3 2	12 15.80	+ 6 50.7	2.170	3.117	6.5	18.3
3 12	12 6.96	+ 7 20.3	2.132	3.115	3.2	18.1
3 22	11 57.38	+ 7 46.7	2.124	3.113	2.8	18.1
4 1	11 47.95	+ 8 5.4	2.146	3.110	5.8	18.3
4 11	11 39.54	+ 8 13.2	2.196	3.107	9.2	18.5
4 21	11 32.78	+ 8 8.4	2.271	3.103	12.2	18.7

427605 2003 SA_{257} 3 20.2 194°.65 0°.4/20.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.45	− 2 57.8	2.492	3.262	12.4	21.7
2 21	12 19.95	− 2 45.6	2.394	3.260	9.8	21.5
3 2	12 13.63	− 2 22.3	2.319	3.257	6.7	21.3
3 12	12 5.96	− 1 50.4	2.272	3.254	3.2	21.1
3 22	11 57.60	− 1 13.5	2.255	3.251	0.6	20.8
4 1	11 49.32	− 0 35.9	2.267	3.247	4.2	21.1
4 11	11 41.90	− 0 2.1	2.309	3.242	7.6	21.3
4 21	11 35.92	+ 0 24.2	2.376	3.237	10.7	21.5

112223 2002 KE_6 3 20.2 265°.83 1°.3/19.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.38	+ 0 52.1	1.811	2.611	15.3	20.0
2 21	12 21.60	+ 1 22.4	1.705	2.591	12.0	19.8
3 2	12 15.28	+ 2 6.5	1.622	2.570	8.1	19.5
3 12	12 6.92	+ 3 0.0	1.564	2.549	3.7	19.1
3 22	11 57.36	+ 3 56.8	1.533	2.527	2.0	19.0
4 1	11 47.72	+ 4 49.5	1.531	2.505	6.5	19.2
4 11	11 39.18	+ 5 31.1	1.555	2.483	11.1	19.4
4 21	11 32.62	+ 5 57.0	1.602	2.460	15.2	19.6

18221 6526 P–L 3 20.2 174°.66 0°.1/20.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.82	− 4 0.3	2.839	3.609	11.0	20.2
2 21	12 15.36	− 3 6.5	2.743	3.611	8.6	20.1
3 2	12 10.43	− 2 0.3	2.673	3.612	5.8	19.9
3 12	12 4.44	− 0 45.1	2.630	3.614	2.7	19.7
3 22	11 57.94	+ 0 34.4	2.619	3.614	0.6	19.5
4 1	11 51.54	+ 1 52.8	2.638	3.615	3.9	19.8
4 11	11 45.84	+ 3 5.1	2.686	3.615	6.9	20.0
4 21	11 41.30	+ 4 7.1	2.762	3.615	9.6	20.1

499777 2011 CR_{38} 3 20.2 196°.94 2°.8/22.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.65	− 9 8.0	2.214	2.961	14.5	22.4
2 21	12 21.99	− 9 22.2	2.114	2.959	11.8	22.2
3 2	12 15.17	− 9 21.4	2.036	2.957	8.6	22.0
3 12	12 6.74	− 9 6.2	1.984	2.953	5.2	21.8
3 22	11 57.43	− 8 38.8	1.960	2.950	2.8	21.6
4 1	11 48.18	− 8 3.3	1.966	2.946	4.7	21.7
4 11	11 39.92	− 7 25.0	2.000	2.941	8.1	21.9
4 21	11 33.35	− 6 49.3	2.059	2.936	11.5	22.1

427037 2014 TG_5 3 20.2 183°.22 0°.6/19.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.27	− 1 1.0	2.085	2.868	14.1	22.2
2 21	12 21.71	− 0 30.7	1.994	2.869	11.0	22.0
3 2	12 14.98	+ 0 12.4	1.926	2.869	7.4	21.7
3 12	12 6.63	+ 1 4.3	1.884	2.869	3.3	21.5
3 22	11 57.47	+ 1 59.7	1.872	2.868	1.2	21.3
4 1	11 48.44	+ 2 52.4	1.890	2.866	5.3	21.6
4 11	11 40.48	+ 3 36.8	1.935	2.863	9.2	21.8
4 21	11 34.28	+ 4 8.7	2.005	2.860	12.7	22.0

62065 2000 RH_{73} 3 20.2 54°.07 0°.1/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.87	− 2 59.6	1.796	2.591	15.6	18.5
2 21	12 18.59	− 2 28.4	1.714	2.595	12.2	18.3
3 2	12 13.02	− 1 41.0	1.654	2.599	8.2	18.0
3 12	12 5.76	− 0 41.6	1.619	2.604	3.8	17.8
3 22	11 57.67	+ 0 23.7	1.612	2.608	0.9	17.6
4 1	11 49.77	+ 1 27.4	1.632	2.612	5.5	17.9
4 11	11 43.06	+ 2 22.4	1.680	2.617	9.7	18.1
4 21	11 38.24	+ 3 3.9	1.750	2.621	13.4	18.4

135079 2001 PH_{65} 3 20.2 216°.00 2°.1/17.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.45	+ 5 36.7	2.652	3.447	11.1	21.1
2 21	12 19.07	+ 6 8.6	2.557	3.441	8.6	20.9
3 2	12 12.99	+ 6 46.6	2.486	3.434	5.7	20.7
3 12	12 5.66	+ 7 26.5	2.443	3.426	2.9	20.5
3 22	11 57.70	+ 8 4.0	2.431	3.418	2.6	20.5
4 1	11 49.82	+ 8 34.7	2.448	3.410	5.3	20.6
4 11	11 42.74	+ 8 55.2	2.493	3.402	8.3	20.8
4 21	11 37.00	+ 9 3.6	2.564	3.393	11.1	21.0

496563 2014 XC_{27} 3 20.2 107°.52 7°.6/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.13	+18 48.1	1.946	2.770	13.4	20.6
2 21	12 20.16	+20 26.2	1.890	2.780	10.8	20.5
3 2	12 13.93	+22 2.2	1.858	2.790	8.5	20.4
3 12	12 6.12	+23 26.5	1.853	2.799	7.6	20.3
3 22	11 57.61	+24 30.9	1.875	2.808	8.7	20.4
4 1	11 49.41	+25 9.6	1.922	2.818	10.9	20.6
4 11	11 42.48	+25 21.1	1.993	2.826	13.4	20.7
4 21	11 37.45	+25 6.8	2.083	2.835	15.8	20.9

468579 2007 HB_{87} 3 20.2 261°.29 4°.2/25.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.30	−16 13.6	2.183	2.907	15.3	21.9
2 21	12 17.24	−15 58.4	2.069	2.893	12.9	21.6
3 2	12 12.11	−15 20.4	1.976	2.877	9.9	21.4
3 12	12 5.38	−14 19.4	1.907	2.862	6.8	21.2
3 22	11 57.75	−12 58.1	1.865	2.846	4.3	21.0
4 1	11 50.10	−11 22.2	1.852	2.830	5.1	21.0
4 11	11 43.35	− 9 39.8	1.867	2.814	8.2	21.2
4 21	11 38.21	− 7 59.6	1.908	2.797	11.6	21.3

90828 1995 UH_2 3 20.2 316°.35 0°.6/20.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.10	− 4 4.7	1.868	2.657	15.3	20.0
2 21	12 18.76	− 3 45.6	1.778	2.654	12.1	19.8
3 2	12 13.16	− 3 10.4	1.710	2.652	8.3	19.6
3 12	12 5.85	− 2 22.4	1.667	2.650	4.0	19.3
3 22	11 57.66	− 1 26.7	1.651	2.647	0.8	19.0
4 1	11 49.59	− 0 29.9	1.664	2.645	5.1	19.3
4 11	11 42.63	+ 0 21.2	1.703	2.643	9.4	19.6
4 21	11 37.52	+ 1 1.2	1.766	2.641	13.1	19.8

41158 1999 VG_{160} 3 20.2 128°.67 1°.7/22.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.35	− 8 10.4	2.233	2.992	14.0	19.8
2 21	12 18.49	− 7 50.1	2.146	3.002	11.2	19.6
3 2	12 12.71	− 7 13.4	2.082	3.010	7.9	19.4
3 12	12 5.56	− 6 22.9	2.043	3.019	4.3	19.2
3 22	11 57.74	− 5 22.5	2.033	3.027	1.7	19.1
4 1	11 50.09	− 4 18.1	2.053	3.035	4.2	19.3
4 11	11 43.41	− 3 15.8	2.101	3.043	7.8	19.5
4 21	11 38.31	− 2 20.9	2.174	3.050	11.0	19.7

25892 Funabashi 3 20.2 135°.71 19°.1/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 33.82	+38 16.4	1.194	2.009	20.7	18.1
2 21	12 29.91	+41 30.9	1.174	2.016	19.4	18.1
3 2	12 21.54	+44 16.3	1.174	2.023	19.1	18.0
3 12	12 9.86	+46 13.5	1.192	2.030	19.8	18.1
3 22	11 56.81	+47 11.5	1.228	2.036	21.3	18.2
4 1	11 44.69	+47 8.1	1.279	2.041	23.1	18.4
4 11	11 35.43	+46 10.5	1.343	2.046	24.9	18.5
4 21	11 29.96	+44 30.2	1.416	2.051	26.4	18.7

119494 2001 UK_{80} 3 20.2 103°.80 0°.7/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.68	− 5 7.8	2.025	2.799	14.8	21.2
2 21	12 20.36	− 4 39.3	1.951	2.819	11.6	21.0
3 2	12 13.97	− 3 55.1	1.900	2.838	7.9	20.8
3 12	12 6.12	− 2 59.1	1.876	2.857	3.9	20.6
3 22	11 57.63	− 1 56.5	1.879	2.875	0.8	20.4
4 1	11 49.43	− 0 53.7	1.912	2.893	4.7	20.7
4 11	11 42.38	+ 0 2.9	1.973	2.911	8.5	21.0
4 21	11 37.09	+ 0 48.8	2.059	2.928	11.8	21.2

94652 2001 WN_{63} 3 20.2 283°.37 2°.4/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.69	+ 3 4.8	1.466	2.285	17.3	20.0
2 21	12 22.43	+ 3 36.1	1.370	2.267	13.6	19.7
3 2	12 16.16	+ 4 21.5	1.295	2.249	9.1	19.4
3 12	12 7.45	+ 5 15.3	1.245	2.230	4.3	19.1
3 22	11 57.30	+ 6 9.4	1.220	2.212	3.2	19.0
4 1	11 47.11	+ 6 55.0	1.221	2.194	8.0	19.2
4 11	11 38.30	+ 7 24.4	1.247	2.176	13.1	19.4
4 21	11 31.95	+ 7 33.5	1.293	2.157	17.7	19.7

325633 2009 SU_{283} 3 20.2 274°.39 2°.3/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.04	+ 2 39.2	1.814	2.625	14.8	21.1
2 21	12 18.83	+ 3 30.8	1.723	2.616	11.5	20.9
3 2	12 13.28	+ 4 35.4	1.656	2.608	7.6	20.6
3 12	12 5.96	+ 5 47.2	1.614	2.599	3.6	20.4
3 22	11 57.68	+ 6 58.6	1.599	2.590	3.0	20.3
4 1	11 49.50	+ 8 1.7	1.613	2.581	6.9	20.5
4 11	11 42.44	+ 8 49.8	1.652	2.572	11.0	20.7
4 21	11 37.27	+ 9 19.2	1.714	2.563	14.7	20.9

125788 2001 XH_{151} 3 20.2 193°.54 0°.8/21.1 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.84	− 5 2.4	2.202	2.972	13.8	20.8
2 21	12 19.77	− 4 41.7	2.106	2.971	11.0	20.6
3 2	12 13.66	− 4 6.3	2.033	2.969	7.6	20.3
3 12	12 6.06	− 3 19.1	1.986	2.966	3.8	20.1
3 22	11 57.67	− 2 24.2	1.968	2.964	0.9	19.9
4 1	11 49.38	− 1 27.4	1.979	2.960	4.5	20.1
4 11	11 42.05	− 0 34.6	2.019	2.956	8.3	20.4
4 21	11 36.33	+ 0 9.3	2.084	2.952	11.7	20.6

110314 2001 SQ_{279} 3 20.2 99°.64 0°.2/20.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.15	− 2 46.0	1.870	2.657	15.3	19.5
2 21	12 20.98	− 2 29.2	1.792	2.668	12.0	19.3
3 2	12 14.54	− 1 58.2	1.737	2.679	8.1	19.1
3 12	12 6.45	− 1 16.5	1.707	2.690	3.8	18.9
3 22	11 57.59	− 0 29.4	1.704	2.700	0.7	18.6
4 1	11 48.99	+ 0 17.1	1.731	2.711	5.2	19.0
4 11	11 41.60	+ 0 56.9	1.784	2.721	9.3	19.2
4 21	11 36.12	+ 1 25.6	1.862	2.731	12.8	19.5

346209 2007 XZ_{58} 3 20.2 119°.65 2°.3/17.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.06	+ 6 2.5	2.786	3.582	10.6	22.1
2 21	12 17.79	+ 6 47.9	2.713	3.598	8.1	21.9
3 2	12 12.00	+ 7 38.5	2.666	3.614	5.3	21.8
3 12	12 5.18	+ 8 30.0	2.647	3.629	2.8	21.6
3 22	11 57.91	+ 9 17.9	2.659	3.644	2.7	21.6
4 1	11 50.84	+ 9 57.9	2.701	3.659	5.2	21.8
4 11	11 44.57	+10 26.9	2.771	3.673	7.8	22.0
4 21	11 39.57	+10 43.4	2.866	3.686	10.2	22.2

187408 2005 VR_{56} 3 20.2 190°.33 1°.1/18.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.62	+ 0 13.4	2.354	3.140	12.6	21.0
2 21	12 19.43	+ 0 56.9	2.260	3.139	9.8	20.8
3 2	12 13.36	+ 1 51.8	2.191	3.137	6.5	20.6
3 12	12 5.90	+ 2 53.7	2.150	3.134	2.9	20.3
3 22	11 57.74	+ 3 57.5	2.138	3.131	1.6	20.2
4 1	11 49.69	+ 4 57.1	2.156	3.128	5.1	20.5
4 11	11 42.53	+ 5 47.3	2.202	3.124	8.6	20.7
4 21	11 36.89	+ 6 24.7	2.274	3.119	11.7	20.9

145616 2006 QV_{54} 3 20.2 110°.24 1°.4/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.68	− 5 19.4	2.788	3.537	11.7	20.8
2 21	12 21.34	− 5 29.9	2.706	3.556	9.3	20.6
3 2	12 14.38	− 5 30.2	2.647	3.574	6.5	20.5
3 12	12 6.29	− 5 22.0	2.616	3.592	3.5	20.3
3 22	11 57.68	− 5 7.5	2.616	3.610	1.4	20.2
4 1	11 49.27	− 4 49.7	2.646	3.627	3.6	20.4
4 11	11 41.71	− 4 32.1	2.707	3.643	6.5	20.6
4 21	11 35.51	− 4 17.7	2.794	3.659	9.2	20.8

111136 2001 VJ_{94} 3 20.2 112°.49 1°.4/18.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.79	− 0 34.6	2.067	2.859	13.9	20.3
2 21	12 18.89	+ 0 32.2	1.994	2.876	10.7	20.1
3 2	12 13.00	+ 1 52.5	1.945	2.893	7.0	19.9
3 12	12 5.71	+ 3 20.5	1.924	2.909	3.1	19.7
3 22	11 57.80	+ 4 48.9	1.932	2.925	2.0	19.6
4 1	11 50.15	+ 6 10.3	1.969	2.940	5.6	19.9
4 11	11 43.59	+ 7 18.3	2.034	2.955	9.3	20.1
4 21	11 38.70	+ 8 9.4	2.124	2.969	12.4	20.3

172499 2003 SJ_{169} 3 20.2 122°.50 1°.8/18.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.06	+ 2 0.6	1.799	2.599	15.3	21.0
2 21	12 22.52	+ 2 40.5	1.726	2.613	11.9	20.8
3 2	12 15.60	+ 3 32.1	1.676	2.625	7.8	20.6
3 12	12 6.97	+ 4 29.7	1.653	2.638	3.6	20.3
3 22	11 57.55	+ 5 26.4	1.657	2.649	2.4	20.3
4 1	11 48.45	+ 6 15.4	1.690	2.661	6.4	20.6
4 11	11 40.68	+ 6 51.1	1.749	2.672	10.4	20.8
4 21	11 34.92	+ 7 10.7	1.832	2.682	13.9	21.1

502307 2015 BU_{150} 3 20.2 269°.71 1°.2/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.94	+ 1 27.2	1.977	2.776	14.2	21.6
2 21	12 20.06	+ 1 49.8	1.888	2.773	11.1	21.4
3 2	12 13.98	+ 2 23.2	1.822	2.770	7.4	21.1
3 12	12 6.26	+ 3 3.2	1.782	2.767	3.3	20.9
3 22	11 57.70	+ 3 44.5	1.770	2.764	1.7	20.8
4 1	11 49.27	+ 4 21.3	1.786	2.761	5.7	21.0
4 11	11 41.92	+ 4 48.5	1.830	2.758	9.6	21.2
4 21	11 36.36	+ 5 2.7	1.897	2.755	13.1	21.5

480463 2015 LA_{5} 3 20.2 281°.18 4°.4/25.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.14	−15 20.4	2.400	3.121	14.1	21.1
2 21	12 17.65	−15 36.3	2.297	3.116	11.9	20.9
3 2	12 12.26	−15 34.5	2.215	3.111	9.2	20.7
3 12	12 5.45	−15 14.7	2.157	3.107	6.5	20.5
3 22	11 57.88	−14 38.6	2.126	3.102	4.5	20.4
4 1	11 50.34	−13 49.6	2.124	3.097	5.0	20.4
4 11	11 43.64	−12 53.3	2.149	3.092	7.5	20.6
4 21	11 38.42	−11 55.7	2.200	3.088	10.4	20.7

7378 Herbertpalme 3 20.2 36°.80 0°.4/20.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.55	− 3 35.6	2.034	2.822	14.2	17.7
2 21	12 17.28	− 3 14.6	1.954	2.830	11.2	17.5
3 2	12 12.02	− 2 39.7	1.896	2.839	7.6	17.3
3 12	12 5.31	− 1 54.0	1.865	2.847	3.6	17.1
3 22	11 57.93	− 1 2.5	1.860	2.856	0.7	16.8
4 1	11 50.74	− 0 11.1	1.885	2.866	4.7	17.2
4 11	11 44.58	+ 0 34.5	1.936	2.876	8.5	17.4
4 21	11 40.07	+ 1 9.8	2.012	2.885	11.8	17.6

114991 Balázs 3 20.2 195°.37 0°.2/20.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.09	− 2 31.5	2.203	2.983	13.5	20.8
2 21	12 19.95	− 2 17.4	2.110	2.982	10.7	20.6
3 2	12 13.80	− 1 51.1	2.040	2.980	7.3	20.3
3 12	12 6.15	− 1 15.6	1.996	2.979	3.4	20.1
3 22	11 57.74	− 0 34.8	1.981	2.977	0.7	19.9
4 1	11 49.44	+ 0 6.0	1.995	2.975	4.6	20.2
4 11	11 42.10	+ 0 41.7	2.037	2.972	8.4	20.4
4 21	11 36.38	+ 1 8.5	2.104	2.969	11.7	20.6

460055 2014 OL_{200} 3 20.2 166°.77 1°.4/21.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.63	− 4 59.8	1.847	2.620	16.0	22.0
2 21	12 23.88	− 5 0.5	1.759	2.624	12.8	21.8
3 2	12 16.63	− 4 45.8	1.692	2.627	8.9	21.5
3 12	12 7.52	− 4 17.9	1.651	2.630	4.6	21.3
3 22	11 57.44	− 3 40.7	1.637	2.632	1.4	21.1
4 1	11 47.53	− 3 0.0	1.653	2.634	5.2	21.3
4 11	11 38.87	− 2 22.0	1.696	2.635	9.4	21.6
4 21	11 32.25	− 1 52.1	1.763	2.636	13.2	21.8

279386 2010 CP_{69} 3 20.2 30°.07 2°.2/18.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.26	+ 2 41.9	1.901	2.711	14.3	21.2
2 21	12 18.02	+ 3 31.6	1.820	2.713	11.0	21.0
3 2	12 12.61	+ 4 33.0	1.763	2.715	7.2	20.7
3 12	12 5.63	+ 5 40.1	1.732	2.717	3.4	20.5
3 22	11 57.87	+ 6 46.0	1.729	2.720	2.8	20.5
4 1	11 50.30	+ 7 43.5	1.753	2.722	6.4	20.7
4 11	11 43.83	+ 8 27.0	1.804	2.725	10.3	20.9
4 21	11 39.13	+ 8 53.2	1.878	2.728	13.6	21.1

227493 2005 XF_{56} 3 20.2 167°.24 4°.1/15.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.45	+ 9 33.5	2.386	3.194	11.8	21.1
2 21	12 19.25	+10 52.9	2.309	3.199	9.1	21.0
3 2	12 13.20	+12 17.7	2.257	3.203	6.3	20.8
3 12	12 5.83	+13 41.3	2.233	3.207	4.2	20.7
3 22	11 57.83	+14 56.8	2.240	3.210	4.8	20.7
4 1	11 49.99	+15 58.2	2.275	3.213	7.3	20.9
4 11	11 43.09	+16 41.7	2.338	3.215	10.1	21.0
4 21	11 37.69	+17 5.7	2.424	3.216	12.7	21.2

497923 2006 VJ_{98} 3 20.2 157°.43 1°.8/17.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.84	+ 4 50.0	2.898	3.690	10.3	22.1
2 21	12 17.63	+ 5 25.4	2.813	3.695	7.9	21.9
3 2	12 11.94	+ 6 6.7	2.753	3.701	5.2	21.8
3 12	12 5.20	+ 6 49.9	2.722	3.706	2.6	21.6
3 22	11 57.97	+ 7 31.1	2.721	3.710	2.2	21.6
4 1	11 50.88	+ 8 6.3	2.751	3.714	4.8	21.8
4 11	11 44.52	+ 8 32.3	2.809	3.718	7.5	21.9
4 21	11 39.37	+ 8 47.2	2.892	3.722	9.9	22.1

246391 2007 UW_{39} 3 20.2 199°.26 1°.8/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.89	+ 2 47.4	2.608	3.402	11.3	21.1
2 21	12 17.15	+ 3 39.8	2.515	3.399	8.7	21.0
3 2	12 11.76	+ 4 41.2	2.448	3.396	5.7	20.8
3 12	12 5.17	+ 5 47.0	2.408	3.392	2.7	20.5
3 22	11 57.98	+ 6 52.3	2.398	3.388	2.3	20.5
4 1	11 50.87	+ 7 51.5	2.419	3.384	5.2	20.7
4 11	11 44.54	+ 8 40.1	2.467	3.379	8.3	20.9
4 21	11 39.52	+ 9 15.3	2.541	3.374	11.0	21.1

299983 2006 TW_{125} 3 20.2 262°.31 0°.7/19.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.70	+ 0 10.9	2.697	3.477	11.3	22.2
2 21	12 18.64	+ 0 38.2	2.578	3.453	8.9	21.9
3 2	12 12.85	+ 1 15.2	2.484	3.428	5.9	21.7
3 12	12 5.73	+ 1 58.9	2.418	3.403	2.7	21.5
3 22	11 57.84	+ 2 45.3	2.382	3.377	1.2	21.3
4 1	11 49.90	+ 3 30.0	2.377	3.351	4.5	21.5
4 11	11 42.64	+ 4 8.3	2.400	3.324	7.9	21.7
4 21	11 36.65	+ 4 37.0	2.449	3.297	10.9	21.8

316875 2000 RU_{26} 3 20.2 235°.73 2°.4/22.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.05	− 7 35.3	1.966	2.724	15.7	21.2
2 21	12 24.34	− 7 46.6	1.856	2.709	12.8	21.0
3 2	12 17.10	− 7 42.0	1.767	2.694	9.3	20.7
3 12	12 7.84	− 7 22.1	1.704	2.677	5.3	20.4
3 22	11 57.38	− 6 49.4	1.668	2.660	2.4	20.2
4 1	11 46.81	− 6 8.7	1.662	2.643	5.2	20.3
4 11	11 37.30	− 5 26.3	1.683	2.624	9.4	20.5
4 21	11 29.72	− 4 48.3	1.729	2.605	13.4	20.7

179602 2002 NO_{43} 3 20.2 144°.73 3°.6/16.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.13	+ 7 54.6	2.058	2.864	13.5	21.1
2 21	12 22.31	+ 8 49.9	1.985	2.874	10.4	20.9
3 2	12 15.34	+ 9 51.4	1.936	2.884	7.0	20.8
3 12	12 6.84	+10 52.6	1.915	2.894	4.1	20.6
3 22	11 57.64	+11 46.8	1.922	2.903	4.3	20.6
4 1	11 48.70	+12 27.9	1.958	2.911	7.2	20.8
4 11	11 40.95	+12 52.3	2.021	2.918	10.5	21.0
4 21	11 35.00	+12 58.6	2.107	2.925	13.5	21.2

489372 2006 UJ_{205} 3 20.2 186°.93 0°.2/20.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.09	− 3 11.5	2.778	3.549	11.3	22.7
2 21	12 17.19	− 2 46.5	2.682	3.548	8.9	22.5
3 2	12 11.73	− 2 10.8	2.609	3.547	6.0	22.3
3 12	12 5.15	− 1 27.0	2.564	3.546	2.8	22.1
3 22	11 57.99	− 0 38.8	2.549	3.545	0.5	21.9
4 1	11 50.93	+ 0 9.4	2.564	3.543	3.8	22.1
4 11	11 44.59	+ 0 53.4	2.608	3.541	6.9	22.3
4 21	11 39.49	+ 1 29.7	2.679	3.538	9.7	22.5

186907 2004 LO_{20} 3 20.2 310°.54 3°.5/23.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.75	−11 46.3	1.664	2.434	17.7	20.0
2 21	12 17.41	−11 38.2	1.566	2.422	14.6	19.7
3 2	12 12.57	−11 5.8	1.487	2.411	10.8	19.5
3 12	12 5.76	−10 9.5	1.431	2.401	6.7	19.2
3 22	11 57.84	− 8 53.4	1.400	2.390	3.5	19.0
4 1	11 49.93	− 7 25.0	1.396	2.380	5.5	19.1
4 11	11 43.19	− 5 54.2	1.419	2.370	9.8	19.3
4 21	11 38.49	− 4 30.6	1.464	2.361	14.0	19.5

192403 1997 BQ_{4} 3 20.2 294°.48 2°.5/22.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.34	− 8 32.6	1.956	2.721	15.5	20.6
2 21	12 19.70	− 8 37.0	1.864	2.720	12.6	20.4
3 2	12 13.80	− 8 24.2	1.792	2.719	9.1	20.1
3 12	12 6.22	− 7 55.5	1.745	2.718	5.3	19.9
3 22	11 57.75	− 7 14.1	1.726	2.717	2.5	19.7
4 1	11 49.38	− 6 25.3	1.734	2.716	4.8	19.9
4 11	11 42.09	− 5 35.8	1.770	2.716	8.7	20.1
4 21	11 36.60	− 4 51.5	1.830	2.715	12.3	20.3

341351 2007 TZ_{53} 3 20.2 51°.07 0°.7/19.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.01	− 0 7.7	2.011	2.808	14.1	20.8
2 21	12 18.40	+ 0 18.5	1.936	2.819	10.9	20.6
3 2	12 12.76	+ 0 56.3	1.883	2.830	7.2	20.4
3 12	12 5.66	+ 1 41.5	1.857	2.842	3.2	20.1
3 22	11 57.90	+ 2 28.8	1.858	2.853	1.3	20.0
4 1	11 50.37	+ 3 12.3	1.888	2.865	5.2	20.3
4 11	11 43.93	+ 3 47.0	1.945	2.877	9.0	20.5
4 21	11 39.18	+ 4 9.5	2.026	2.889	12.2	20.8

495398 2014 QY_{310} 3 20.2 221°.45 0°.2/20.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.02	− 3 22.4	2.084	2.858	14.4	23.5
2 21	12 22.50	− 2 55.9	1.978	2.846	11.4	23.3
3 2	12 15.70	− 2 14.4	1.894	2.834	7.8	23.0
3 12	12 7.13	− 1 20.9	1.838	2.821	3.7	22.7
3 22	11 57.56	− 0 20.3	1.810	2.806	0.7	22.5
4 1	11 47.98	+ 0 40.9	1.812	2.791	5.1	22.7
4 11	11 39.40	+ 1 36.1	1.843	2.775	9.3	23.0
4 21	11 32.59	+ 2 20.2	1.898	2.758	13.1	23.2

299286 2005 PO_{7} 3 20.2 229°.18 1°.0/18.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.01	+ 1 15.3	2.745	3.531	11.0	21.7
2 21	12 17.20	+ 1 49.5	2.644	3.522	8.5	21.5
3 2	12 11.78	+ 2 32.6	2.567	3.513	5.6	21.3
3 12	12 5.19	+ 3 21.0	2.519	3.504	2.5	21.1
3 22	11 57.99	+ 4 10.5	2.500	3.494	1.5	21.0
4 1	11 50.85	+ 4 56.7	2.512	3.484	4.5	21.2
4 11	11 44.41	+ 5 35.2	2.552	3.473	7.6	21.4
4 21	11 39.22	+ 6 3.4	2.618	3.462	10.4	21.5

341479 2007 TE_{362} 3 20.2 43°.08 0°.3/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.99	− 1 38.3	2.026	2.820	14.1	21.2
2 21	12 17.63	− 1 11.4	1.948	2.829	11.0	21.0
3 2	12 12.26	− 0 31.7	1.892	2.838	7.3	20.8
3 12	12 5.44	+ 0 17.0	1.863	2.847	3.3	20.5
3 22	11 57.95	+ 1 9.2	1.861	2.857	0.9	20.4
4 1	11 50.67	+ 1 59.2	1.888	2.867	5.0	20.7
4 11	11 44.44	+ 2 41.2	1.942	2.877	8.8	20.9
4 21	11 39.87	+ 3 11.5	2.020	2.887	12.1	21.2

175234 2005 GG_{164} 3 20.2 265°.04 2°.2/18.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.99	+ 3 53.2	1.700	2.509	15.7	21.0
2 21	12 22.92	+ 4 15.7	1.609	2.499	12.3	20.8
3 2	12 16.19	+ 4 48.6	1.540	2.490	8.2	20.5
3 12	12 7.41	+ 5 26.6	1.496	2.481	3.9	20.2
3 22	11 57.52	+ 6 3.4	1.479	2.471	2.8	20.1
4 1	11 47.71	+ 6 32.2	1.490	2.461	7.0	20.3
4 11	11 39.20	+ 6 47.7	1.527	2.452	11.4	20.6
4 21	11 32.84	+ 6 47.1	1.586	2.442	15.4	20.8

358604 2007 VQ_{3} 3 20.2 230°.44 0°.3/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.04	− 3 29.0	2.170	2.945	13.9	21.3
2 21	12 20.90	− 2 40.1	2.059	2.929	11.0	21.1
3 2	12 14.60	− 1 34.6	1.972	2.913	7.4	20.8
3 12	12 6.62	− 0 16.1	1.911	2.895	3.4	20.5
3 22	11 57.69	+ 1 9.5	1.881	2.877	0.9	20.3
4 1	11 48.71	+ 2 34.8	1.880	2.857	5.2	20.6
4 11	11 40.64	+ 3 52.4	1.909	2.837	9.3	20.8
4 21	11 34.22	+ 4 56.4	1.962	2.815	13.0	21.0

331545 2000 UE_{59} 3 20.2 161°.48 2°.5/23.2 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.63	−10 55.8	2.472	3.209	13.4	22.1
2 21	12 19.37	−10 43.2	2.377	3.215	10.9	21.9
3 2	12 13.30	−10 14.4	2.305	3.221	7.9	21.7
3 12	12 5.91	− 9 30.8	2.259	3.226	4.8	21.5
3 22	11 57.86	− 8 35.5	2.241	3.231	2.5	21.4
4 1	11 49.94	− 7 33.3	2.254	3.235	4.1	21.5
4 11	11 42.90	− 6 30.0	2.296	3.238	7.2	21.7
4 21	11 37.32	− 5 31.1	2.364	3.241	10.2	21.9

29784 1999 CD_{51} 3 20.2 53°.15 1°.8/18.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.99	+ 1 19.6	1.628	2.441	16.1	17.9
2 21	12 19.68	+ 2 2.2	1.556	2.449	12.5	17.6
3 2	12 13.87	+ 2 58.5	1.505	2.457	8.2	17.4
3 12	12 6.26	+ 4 2.6	1.479	2.465	3.7	17.2
3 22	11 57.79	+ 5 6.6	1.481	2.474	2.4	17.1
4 1	11 49.61	+ 6 2.8	1.509	2.482	6.7	17.4
4 11	11 42.77	+ 6 44.6	1.563	2.491	11.0	17.6
4 21	11 38.00	+ 7 8.4	1.639	2.500	14.7	17.9

102254 1999 TO_{28} 3 20.2 236°.17 0°.7/20.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.74	− 4 26.9	1.950	2.727	15.2	21.0
2 21	12 21.69	− 4 9.0	1.846	2.715	12.1	20.7
3 2	12 15.26	− 3 35.0	1.763	2.702	8.4	20.5
3 12	12 6.97	− 2 47.5	1.706	2.688	4.1	20.2
3 22	11 57.62	− 1 51.2	1.677	2.673	0.9	19.9
4 1	11 48.26	− 0 52.4	1.678	2.658	5.2	20.2
4 11	11 39.94	+ 0 1.8	1.705	2.643	9.6	20.4
4 21	11 33.48	+ 0 45.8	1.757	2.626	13.5	20.6

499742 2011 BW_{72} 3 20.2 181°.09 4°.9/25.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.44	−17 9.9	2.428	3.128	14.5	22.2
2 21	12 20.96	−17 29.9	2.326	3.129	12.3	22.0
3 2	12 14.49	−17 31.5	2.245	3.130	9.7	21.9
3 12	12 6.51	−17 14.0	2.189	3.130	7.0	21.7
3 22	11 57.74	−16 38.4	2.160	3.129	5.1	21.6
4 1	11 49.01	−15 48.3	2.160	3.128	5.4	21.6
4 11	11 41.20	−14 49.3	2.188	3.127	7.7	21.7
4 21	11 34.95	−13 47.7	2.243	3.124	10.5	21.9

351481 2005 QQ_{59} 3 20.2 196°.44 0°.1/20.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.97	− 1 34.2	2.953	3.722	10.7	22.0
2 21	12 18.55	− 1 24.3	2.853	3.720	8.4	21.8
3 2	12 12.60	− 1 6.0	2.778	3.717	5.7	21.6
3 12	12 5.56	− 0 41.5	2.731	3.714	2.7	21.4
3 22	11 57.95	− 0 13.8	2.714	3.710	0.5	21.2
4 1	11 50.42	+ 0 13.7	2.728	3.706	3.7	21.5
4 11	11 43.58	+ 0 37.6	2.771	3.702	6.6	21.7
4 21	11 37.93	+ 0 55.2	2.841	3.698	9.3	21.8

172947 Baeyens 3 20.2 294°.24 5°.0/15.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.20	+13 20.1	2.130	2.947	12.7	20.2
2 21	12 20.15	+14 8.4	2.047	2.940	9.9	20.0
3 2	12 13.99	+14 58.8	1.988	2.933	7.1	19.9
3 12	12 6.28	+15 44.5	1.956	2.926	5.2	19.7
3 22	11 57.80	+16 19.4	1.951	2.919	5.7	19.7
4 1	11 49.47	+16 38.3	1.974	2.912	8.3	19.9
4 11	11 42.20	+16 38.3	2.023	2.905	11.3	20.0
4 21	11 36.64	+16 19.3	2.094	2.898	14.1	20.2

76252 2000 EJ_{93} 3 20.2 298°.60 5°.6/25.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.78	−16 35.4	2.079	2.802	16.0	18.7
2 21	12 18.64	−17 6.1	1.966	2.784	13.6	18.5
3 2	12 13.25	−17 17.0	1.872	2.765	10.8	18.3
3 12	12 6.07	−17 6.5	1.802	2.747	7.9	18.0
3 22	11 57.82	−16 35.0	1.757	2.728	5.8	17.9
4 1	11 49.45	−15 45.7	1.739	2.710	6.2	17.8
4 11	11 42.00	−14 44.7	1.748	2.692	8.9	18.0
4 21	11 36.28	−13 39.6	1.782	2.674	12.1	18.1

398471 2011 UV_{120} 3 20.2 258°.14 3°.1/22.6 17

2 11	12 26.09	− 8 57.5	1.610	2.383	18.0	21.9
2 21	12 22.57	− 9 7.9	1.508	2.369	14.8	21.6
3 2	12 16.21	− 8 57.8	1.426	2.355	10.8	21.3
3 12	12 7.54	− 8 27.3	1.367	2.340	6.4	21.0
3 22	11 57.49	− 7 39.4	1.334	2.326	3.1	20.8
4 1	11 47.36	− 6 40.5	1.328	2.310	5.9	20.9
4 11	11 38.47	− 5 39.2	1.347	2.295	10.6	21.1
4 21	11 31.87	− 4 43.9	1.390	2.279	15.1	21.3

240046 2001 VC_{18} 3 20.2 213°.37 4°.0/15.6 18

2 11	12 24.29	+11 55.9	2.497	3.304	11.3	20.1
2 21	12 19.85	+12 37.2	2.412	3.300	8.8	19.9
3 2	12 13.60	+13 20.7	2.352	3.297	6.2	19.7
3 12	12 6.05	+14 1.1	2.320	3.293	4.2	19.6
3 22	11 57.86	+14 33.3	2.318	3.289	4.6	19.6
4 1	11 49.81	+14 53.1	2.344	3.285	6.9	19.7
4 11	11 42.67	+14 57.9	2.397	3.281	9.6	19.9
4 21	11 37.00	+14 47.0	2.473	3.276	12.2	20.1

56678 Alicewessen 3 20.3 161°.71 3°.3/24.3 18

2 11	12 22.56	−13 5.9	2.673	3.396	12.8	19.8
2 21	12 18.46	−13 14.4	2.575	3.399	10.6	19.7
3 2	12 12.67	−13 7.7	2.499	3.402	8.0	19.5
3 12	12 5.63	−12 46.3	2.448	3.405	5.3	19.3
3 22	11 57.95	−12 12.2	2.427	3.408	3.4	19.2
4 1	11 50.37	−11 28.8	2.434	3.411	4.2	19.3
4 11	11 43.57	−10 41.0	2.471	3.413	6.7	19.4
4 21	11 38.11	− 9 53.5	2.534	3.415	9.4	19.6

369995 1999 RV_{195} 3 20.3 147°.85 2°.7/24.0 17

2 11	12 23.84	−13 4.8	3.036	3.748	11.6	21.7
2 21	12 19.14	−12 53.8	2.942	3.762	9.5	21.5
3 2	12 12.95	−12 28.5	2.872	3.775	7.1	21.4
3 12	12 5.70	−11 49.9	2.829	3.787	4.6	21.2
3 22	11 57.96	−11 0.6	2.815	3.799	2.8	21.1
4 1	11 50.34	−10 4.1	2.832	3.809	3.6	21.2
4 11	11 43.48	− 9 5.2	2.880	3.819	6.0	21.4
4 21	11 37.83	− 8 8.3	2.955	3.829	8.5	21.6

503347 2016 BP_{56} 3 20.3 307°.83 2°.6/21.9 17

2 11	12 24.72	− 6 1.0	1.401	2.198	19.1	21.1
2 21	12 21.93	− 6 25.8	1.303	2.180	15.5	20.8
3 2	12 16.03	− 6 32.2	1.224	2.163	11.2	20.5
3 12	12 7.56	− 6 20.7	1.167	2.145	6.3	20.2
3 22	11 57.51	− 5 54.0	1.135	2.128	2.6	19.9
4 1	11 47.31	− 5 18.1	1.128	2.112	6.4	20.1
4 11	11 38.50	− 4 41.3	1.145	2.096	11.7	20.3
4 21	11 32.23	− 4 11.1	1.184	2.080	16.6	20.5

422324 2014 SM_{201} 3 20.3 248°.37 2°.2/18.3 17

2 11	12 27.09	+ 2 38.3	1.831	2.632	15.1	22.2
2 21	12 22.97	+ 3 22.1	1.727	2.613	11.8	21.9
3 2	12 16.27	+ 4 19.3	1.645	2.594	7.9	21.6
3 12	12 7.51	+ 5 24.5	1.589	2.573	3.8	21.3
3 22	11 57.55	+ 6 30.5	1.561	2.552	2.9	21.2
4 1	11 47.51	+ 7 29.3	1.561	2.530	7.1	21.4
4 11	11 38.58	+ 8 13.9	1.589	2.507	11.5	21.6
4 21	11 31.66	+ 8 40.4	1.639	2.484	15.5	21.8

391246 2006 QA_9 3 20.3 150°.87 5°.4/26.2 18

2 11	12 28.70	−18 41.9	2.794	3.467	13.3	21.4
2 21	12 23.24	−19 33.0	2.694	3.473	11.4	21.3
3 2	12 15.90	−20 9.0	2.615	3.479	9.2	21.1
3 12	12 7.15	−20 28.3	2.562	3.485	7.1	21.0
3 22	11 57.65	−20 30.6	2.538	3.491	5.6	20.9
4 1	11 48.18	−20 17.5	2.542	3.496	5.7	20.9
4 11	11 39.53	−19 52.8	2.576	3.501	7.4	21.0
4 21	11 32.33	−19 21.4	2.636	3.505	9.5	21.2

37650 1994 FP 3 20.3 47°.73 3°.0/19.2 16

2 11	12 47.64	+ 9 55.3	1.174	1.982	21.4	17.9
2 21	12 39.20	+ 9 5.5	1.126	2.013	16.7	17.7
3 2	12 26.93	+ 8 16.5	1.098	2.046	11.1	17.4
3 12	12 12.15	+ 7 23.6	1.095	2.078	5.4	17.2
3 22	11 56.67	+ 6 24.3	1.119	2.111	3.5	17.2
4 1	11 42.46	+ 5 17.9	1.172	2.145	8.2	17.6
4 11	11 31.06	+ 4 5.1	1.250	2.178	13.1	17.9
4 21	11 23.20	+ 2 47.6	1.350	2.212	17.2	18.3

432338 2009 VH_4 3 20.3 138°.69 4°.3/15.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 28.16	+11 35.5	2.206	3.012	12.7	22.0
2 21	12 22.97	+12 17.6	2.134	3.021	9.9	21.8
3 2	12 15.72	+13 2.0	2.086	3.031	6.8	21.6
3 12	12 7.03	+13 42.7	2.066	3.040	4.5	21.5
3 22	11 57.70	+14 14.0	2.075	3.048	4.8	21.5
4 1	11 48.65	+14 31.3	2.112	3.056	7.4	21.7
4 11	11 40.74	+14 32.3	2.177	3.064	10.4	21.9
4 21	11 34.58	+14 16.7	2.265	3.071	13.1	22.1

133220 2003 QX_{79} 3 20.3 229°.00 3°.1/17.7 18

2 11	12 28.21	+ 5 54.5	1.787	2.595	15.1	20.5
2 21	12 23.76	+ 6 31.1	1.696	2.586	11.8	20.2
3 2	12 16.71	+ 7 16.8	1.628	2.578	7.9	20.0
3 12	12 7.67	+ 8 5.6	1.586	2.569	4.1	19.7
3 22	11 57.57	+ 8 50.2	1.571	2.559	3.7	19.7
4 1	11 47.57	+ 9 24.0	1.585	2.549	7.5	19.9
4 11	11 38.83	+ 9 41.8	1.625	2.538	11.6	20.1
4 21	11 32.17	+ 9 41.5	1.687	2.527	15.3	20.3

341461 2007 TX_{313} 3 20.3 226°.98 1°.8/18.2 17

2 11	12 22.16	+ 3 11.0	2.398	3.195	12.1	21.3
2 21	12 18.34	+ 3 51.3	2.303	3.188	9.3	21.1
3 2	12 12.69	+ 4 40.6	2.233	3.182	6.2	20.9
3 12	12 5.69	+ 5 34.4	2.190	3.175	2.9	20.7
3 22	11 58.00	+ 6 27.5	2.176	3.167	2.3	20.7
4 1	11 50.39	+ 7 14.6	2.192	3.160	5.4	20.8
4 11	11 43.63	+ 7 51.2	2.236	3.152	8.8	21.0
4 21	11 38.32	+ 8 14.4	2.304	3.144	11.8	21.2

63225 2001 BL_2 3 20.3 145°.82 8°.9/11.0 18

2 11	12 24.87	+ 9 44.6	1.243	2.086	18.3	18.7
2 21	12 22.04	+13 3.9	1.185	2.094	14.2	18.5
3 2	12 15.97	+16 38.7	1.152	2.102	10.4	18.3
3 12	12 7.42	+20 8.4	1.144	2.108	8.9	18.2
3 22	11 57.64	+23 11.6	1.164	2.114	11.0	18.3
4 1	11 48.20	+25 32.2	1.209	2.120	14.8	18.6
4 11	11 40.56	+27 3.9	1.276	2.124	18.6	18.8
4 21	11 35.67	+27 48.7	1.358	2.128	21.9	19.1

73651 1981 EJ_2 3 20.3 212°.63 3°.8/24.9 18

2 11	12 22.17	−15 10.8	2.586	3.300	13.4	19.8
2 21	12 18.33	−15 12.6	2.478	3.294	11.2	19.7
3 2	12 12.69	−14 57.0	2.391	3.288	8.6	19.5
3 12	12 5.71	−14 24.1	2.329	3.281	5.9	19.3
3 22	11 58.00	−13 36.0	2.296	3.274	4.0	19.1
4 1	11 50.33	−12 36.3	2.291	3.267	4.6	19.2
4 11	11 43.43	−11 30.8	2.316	3.259	7.1	19.3
4 21	11 37.92	−10 25.2	2.367	3.250	9.9	19.5

35825 1999 JL_{53} 3 20.3 264°.96 2°.3/17.8 17

2 11	12 22.06	+ 2 50.6	1.927	2.735	14.2	19.7
2 21	12 18.78	+ 3 44.6	1.832	2.724	11.0	19.5
3 2	12 13.27	+ 4 51.1	1.761	2.713	7.3	19.2
3 12	12 6.06	+ 6 4.5	1.717	2.702	3.5	19.0
3 22	11 57.93	+ 7 17.5	1.700	2.690	3.0	18.9
4 1	11 49.86	+ 8 22.4	1.712	2.679	6.7	19.1
4 11	11 42.82	+ 9 12.8	1.749	2.667	10.7	19.3
4 21	11 37.57	+ 9 45.0	1.810	2.655	14.2	19.5

140075 2001 SH_{118} 3 20.3 259°.94 1°.5/22.1 18

2 11	12 19.64	− 8 17.8	2.316	3.078	13.5	20.5
2 21	12 16.52	− 7 49.0	2.213	3.071	10.8	20.3
3 2	12 11.55	− 7 3.2	2.133	3.063	7.7	20.1
3 12	12 5.20	− 6 2.7	2.079	3.055	4.2	19.9
3 22	11 58.12	− 4 51.7	2.053	3.048	1.5	19.7
4 1	11 51.09	− 3 36.2	2.057	3.040	4.2	19.9
4 11	11 44.90	− 2 22.6	2.089	3.032	7.7	20.1
4 21	11 40.16	− 1 16.8	2.147	3.024	11.1	20.3

192861 1999 VO_{220} 3 20.3 117°.77 5°.1/26.3 18

2 11	12 22.78	−18 31.7	2.260	2.963	15.4	20.2
2 21	12 18.98	−18 39.5	2.171	2.974	13.0	20.0
3 2	12 13.19	−18 26.1	2.101	2.985	10.3	19.8
3 12	12 5.94	−17 51.1	2.055	2.995	7.5	19.7
3 22	11 57.97	−16 56.4	2.036	3.005	5.4	19.6
4 1	11 50.16	−15 46.8	2.045	3.015	5.6	19.6
4 11	11 43.35	−14 29.0	2.082	3.024	7.8	19.7
4 21	11 38.17	−13 10.3	2.145	3.034	10.6	19.9

147664 2004 KC_4 3 20.3 269°.65 6°.3/28.3 18

2 11	12 20.75	−23 28.5	2.647	3.309	14.2	20.6
2 21	12 17.39	−23 49.7	2.526	3.291	12.5	20.4
3 2	12 12.17	−23 51.0	2.425	3.273	10.4	20.3
3 12	12 5.52	−23 30.4	2.346	3.255	8.3	20.1
3 22	11 58.05	−22 48.0	2.293	3.237	6.7	20.0
4 1	11 50.50	−21 46.1	2.267	3.219	6.5	19.9
4 11	11 43.70	−20 30.1	2.269	3.200	7.9	20.0
4 21	11 38.29	−19 6.4	2.297	3.182	10.1	20.1

173617 2001 FX_{35} 3 20.3 64°.20 0°.1/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.59	− 3 46.9	1.545	2.347	17.4	20.1
2 21	12 19.57	− 3 7.8	1.469	2.353	13.7	19.9
3 2	12 13.94	− 2 9.0	1.414	2.361	9.2	19.6
3 12	12 6.38	− 0 55.4	1.383	2.368	4.3	19.4
3 22	11 57.88	+ 0 25.2	1.379	2.375	0.9	19.1
4 1	11 49.65	+ 1 43.6	1.402	2.383	6.0	19.5
4 11	11 42.80	+ 2 50.9	1.451	2.390	10.7	19.8
4 21	11 38.12	+ 3 41.3	1.522	2.398	14.8	20.0

63799 2001 RS_{26} 3 20.3 143°.23 0°.5/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.32	− 0 25.6	2.898	3.673	10.7	20.6
2 21	12 18.01	+ 0 4.4	2.813	3.685	8.3	20.5
3 2	12 12.22	+ 0 43.0	2.753	3.695	5.5	20.3
3 12	12 5.40	+ 1 27.1	2.721	3.705	2.5	20.1
3 22	11 58.10	+ 2 12.9	2.720	3.715	0.9	20.0
4 1	11 50.94	+ 2 56.3	2.749	3.724	3.9	20.2
4 11	11 44.53	+ 3 33.6	2.808	3.733	6.8	20.4
4 21	11 39.33	+ 4 2.1	2.893	3.741	9.4	20.6

502494 2015 BP_{389} 3 20.3 80°.57 3°.2/17.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.65	+ 6 27.0	1.936	2.749	13.9	21.6
2 21	12 19.85	+ 7 13.4	1.858	2.752	10.7	21.4
3 2	12 13.86	+ 8 7.6	1.804	2.755	7.2	21.2
3 12	12 6.27	+ 9 3.4	1.776	2.758	3.9	21.0
3 22	11 57.91	+ 9 54.1	1.776	2.761	3.8	21.0
4 1	11 49.77	+10 33.4	1.804	2.765	7.1	21.2
4 11	11 42.77	+10 56.9	1.858	2.768	10.6	21.4
4 21	11 37.59	+11 2.9	1.935	2.771	13.8	21.6

199043 2005 WH_{157} 3 20.3 103°.06 4°.4/16.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.43	+ 6 54.1	1.495	2.318	16.8	20.6
2 21	12 23.30	+ 8 1.0	1.433	2.331	13.0	20.4
3 2	12 16.39	+ 9 17.6	1.392	2.345	8.7	20.2
3 12	12 7.47	+10 34.8	1.376	2.358	5.0	20.0
3 22	11 57.67	+11 42.8	1.388	2.370	5.2	20.0
4 1	11 48.30	+12 33.2	1.425	2.383	8.9	20.3
4 11	11 40.52	+13 0.9	1.488	2.395	13.0	20.5
4 21	11 35.12	+13 5.0	1.571	2.407	16.5	20.8

92222 2000 AP_{48} 3 20.3 238°.78 15°.0/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 32.25	−27 45.5	1.381	2.059	24.5	20.2
2 21	12 28.65	−30 2.0	1.294	2.054	22.4	20.0
3 2	12 21.16	−31 52.1	1.220	2.049	19.8	19.8
3 12	12 10.22	−33 5.2	1.165	2.043	17.3	19.6
3 22	11 57.01	−33 32.7	1.128	2.037	15.4	19.5
4 1	11 43.40	−33 11.6	1.113	2.031	15.0	19.4
4 11	11 31.49	−32 8.5	1.118	2.025	16.3	19.5
4 21	11 22.88	−30 37.0	1.143	2.019	18.7	19.6

219374 2000 SR_{48} 3 20.3 124°.42 0°.8/21.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.13	− 7 16.8	2.199	2.964	14.0	20.5
2 21	12 18.37	− 6 24.4	2.116	2.977	11.1	20.3
3 2	12 12.71	− 5 14.3	2.056	2.991	7.6	20.1
3 12	12 5.70	− 3 50.6	2.024	3.003	3.8	19.9
3 22	11 58.07	− 2 19.0	2.020	3.016	0.8	19.7
4 1	11 50.64	− 0 46.8	2.047	3.028	4.4	19.9
4 11	11 44.21	+ 0 38.7	2.102	3.039	8.1	20.2
4 21	11 39.34	+ 1 51.9	2.184	3.050	11.3	20.4

434864 2006 SH_{266} 3 20.3 175°.15 2°.4/23.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.30	−11 17.5	2.696	3.432	12.4	21.9
2 21	12 16.71	−11 2.2	2.596	3.434	10.1	21.7
3 2	12 11.51	−10 31.6	2.520	3.435	7.4	21.5
3 12	12 5.14	− 9 47.1	2.469	3.436	4.5	21.3
3 22	11 58.18	− 8 51.5	2.447	3.436	2.4	21.2
4 1	11 51.30	− 7 49.3	2.456	3.436	3.8	21.3
4 11	11 45.18	− 6 45.7	2.493	3.437	6.6	21.5
4 21	11 40.33	− 5 45.8	2.557	3.436	9.4	21.6

308629 2005 XD_{53} 3 20.3 250°.53 3°.2/24.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.61	−14 19.1	2.989	3.701	11.8	21.7
2 21	12 16.93	−14 14.2	2.866	3.683	9.8	21.6
3 2	12 11.68	−13 54.1	2.765	3.664	7.5	21.4
3 12	12 5.25	−13 19.1	2.691	3.645	5.1	21.2
3 22	11 58.16	−12 31.0	2.645	3.625	3.3	21.0
4 1	11 51.03	−11 33.3	2.629	3.605	4.0	21.0
4 11	11 44.51	−10 30.5	2.643	3.585	6.4	21.2
4 21	11 39.15	− 9 27.6	2.683	3.564	9.0	21.3

438949 2010 KR_{8} 3 20.3 278°.39 21°.1/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 38.14	+40 25.1	1.082	1.894	22.6	20.1
2 21	12 34.15	+43 3.8	1.047	1.886	21.4	20.0
3 2	12 24.97	+45 13.7	1.028	1.879	21.1	20.0
3 12	12 11.78	+46 34.0	1.026	1.871	21.7	20.0
3 22	11 56.81	+46 50.6	1.039	1.863	23.2	20.0
4 1	11 42.85	+45 59.9	1.066	1.855	25.2	20.1
4 11	11 32.22	+44 9.4	1.106	1.847	27.3	20.3
4 21	11 26.00	+41 32.7	1.157	1.840	29.3	20.4

465164 2007 DZ_{113} 3 20.3 66°.25 5°.0/23.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 35.08	− 9 58.0	1.737	2.482	17.9	20.4
2 21	12 29.14	−11 12.9	1.656	2.494	14.8	20.2
3 2	12 20.34	−12 12.6	1.596	2.508	11.2	20.0
3 12	12 9.37	−12 54.9	1.561	2.521	7.4	19.8
3 22	11 57.30	−13 19.3	1.553	2.534	5.0	19.7
4 1	11 45.45	−13 27.9	1.574	2.547	6.4	19.8
4 11	11 35.10	−13 25.7	1.622	2.561	9.9	20.0
4 21	11 27.14	−13 18.7	1.694	2.574	13.4	20.3

331273 2011 CM_{83} 3 20.3 208°.85 0°.1/20.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.71	− 2 50.9	2.078	2.863	14.1	21.9
2 21	12 19.08	− 2 17.3	1.985	2.860	11.1	21.7
3 2	12 13.35	− 1 29.0	1.914	2.857	7.5	21.4
3 12	12 6.08	− 0 29.9	1.870	2.854	3.5	21.2
3 22	11 58.00	+ 0 34.8	1.854	2.850	0.8	20.9
4 1	11 50.01	+ 1 38.5	1.867	2.846	5.0	21.2
4 11	11 43.02	+ 2 34.8	1.908	2.842	9.0	21.5
4 21	11 37.69	+ 3 18.9	1.973	2.837	12.5	21.7

325250 2008 GK_{83} 3 20.3 36°.90 2°.7/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.37	+ 1 38.4	1.257	2.091	18.8	20.0
2 21	12 18.93	+ 2 38.5	1.205	2.109	14.4	19.7
3 2	12 13.60	+ 3 55.1	1.172	2.129	9.4	19.5
3 12	12 6.22	+ 5 19.0	1.163	2.149	4.4	19.3
3 22	11 57.99	+ 6 39.6	1.178	2.170	3.4	19.3
4 1	11 50.27	+ 7 46.4	1.219	2.192	8.0	19.6
4 11	11 44.25	+ 8 32.2	1.284	2.215	12.6	19.9
4 21	11 40.64	+ 8 54.3	1.369	2.238	16.6	20.2

250958 2006 DX_{41} 3 20.3 315°.85 2°.1/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.39	+ 4 3.8	1.242	2.073	19.1	19.4
2 21	12 23.75	+ 4 0.3	1.144	2.046	15.2	19.1
3 2	12 17.61	+ 4 7.5	1.065	2.020	10.4	18.7
3 12	12 8.48	+ 4 20.6	1.009	1.995	4.9	18.3
3 22	11 57.45	+ 4 33.0	0.976	1.970	2.8	18.1
4 1	11 46.16	+ 4 37.0	0.968	1.946	8.5	18.4
4 11	11 36.40	+ 4 26.3	0.982	1.923	14.4	18.6
4 21	11 29.52	+ 3 57.7	1.016	1.901	19.7	18.8

56958 2000 ST_{28} 3 20.3 41°.77 2°.6/22.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.69	− 8 25.2	2.347	3.098	13.6	19.0
2 21	12 20.37	− 8 47.6	2.253	3.100	11.1	18.8
3 2	12 14.10	− 8 56.8	2.180	3.102	8.1	18.6
3 12	12 6.40	− 8 53.5	2.134	3.104	4.9	18.4
3 22	11 57.95	− 8 39.5	2.116	3.106	2.6	18.3
4 1	11 49.59	− 8 18.3	2.128	3.108	4.3	18.4
4 11	11 42.14	− 7 54.2	2.167	3.110	7.5	18.6
4 21	11 36.24	− 7 31.7	2.233	3.113	10.6	18.8

54950 2001 PF_{5} 3 20.3 181°.09 4°.0/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.78	+ 8 59.9	2.059	2.869	13.3	20.2
2 21	12 21.42	+ 9 57.2	1.978	2.870	10.3	20.0
3 2	12 14.89	+11 0.5	1.922	2.870	7.0	19.8
3 12	12 6.77	+12 3.1	1.893	2.870	4.4	19.7
3 22	11 57.88	+12 58.1	1.892	2.870	4.7	19.7
4 1	11 49.17	+13 39.2	1.920	2.869	7.6	19.9
4 11	11 41.56	+14 2.5	1.974	2.868	10.9	20.0
4 21	11 35.74	+14 6.7	2.051	2.866	13.9	20.2

291397 2006 CM_{56} 3 20.3 231°.24 0°.7/19.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.55	− 0 11.9	2.831	3.616	10.7	21.0
2 21	12 15.25	+ 0 25.0	2.737	3.615	8.3	20.9
3 2	12 10.48	+ 1 11.2	2.668	3.613	5.5	20.7
3 12	12 4.66	+ 2 3.3	2.627	3.611	2.5	20.5
3 22	11 58.32	+ 2 57.3	2.615	3.610	1.1	20.3
4 1	11 52.06	+ 3 48.7	2.634	3.608	4.1	20.6
4 11	11 46.49	+ 4 33.3	2.681	3.606	7.1	20.7
4 21	11 42.07	+ 5 8.1	2.754	3.605	9.7	20.9

297586 2001 SM_{77} 3 20.3 224°.96 1°.8/21.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.13	− 5 35.4	1.634	2.415	17.5	21.2
2 21	12 24.02	− 5 40.9	1.540	2.409	14.1	20.9
3 2	12 17.10	− 5 28.9	1.467	2.403	9.9	20.7
3 12	12 7.97	− 5 1.1	1.417	2.396	5.3	20.4
3 22	11 57.60	− 4 21.4	1.395	2.389	1.8	20.1
4 1	11 47.28	− 3 36.2	1.399	2.382	5.7	20.4
4 11	11 38.29	− 2 53.0	1.431	2.374	10.5	20.6
4 21	11 31.57	− 2 18.2	1.485	2.366	14.8	20.9

247080 2000 SV_{56} 3 20.3 240°.31 0°.1/20.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.43	− 2 40.8	2.881	3.651	10.9	22.2
2 21	12 17.54	− 2 14.1	2.769	3.635	8.6	22.0
3 2	12 12.07	− 1 36.8	2.681	3.619	5.8	21.8
3 12	12 5.43	− 0 51.6	2.620	3.603	2.7	21.6
3 22	11 58.15	− 0 1.9	2.590	3.586	0.5	21.3
4 1	11 50.87	+ 0 48.1	2.591	3.569	3.8	21.6
4 11	11 44.23	+ 1 33.8	2.620	3.551	7.0	21.8
4 21	11 38.78	+ 2 11.8	2.676	3.533	9.8	21.9

162608 2000 SD_{90} 3 20.3 229°.68 5°.7/25.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 24.42	−17 43.3	1.840	2.562	17.8	20.1
2 21	12 20.98	−17 54.2	1.735	2.553	15.2	19.9
3 2	12 14.99	−17 39.9	1.650	2.544	12.0	19.6
3 12	12 6.98	−16 58.7	1.586	2.534	8.6	19.4
3 22	11 57.82	−15 52.1	1.549	2.523	6.0	19.2
4 1	11 48.62	−14 25.3	1.538	2.512	6.5	19.2
4 11	11 40.57	−12 47.8	1.554	2.501	9.6	19.4
4 21	11 34.54	−11 9.5	1.595	2.489	13.2	19.6

433457 2013 UG_{11} 3 20.3 208°.83 4°.3/15.8 17

2 11	12 26.22	+11 7.5	2.215	3.024	12.6	21.4
2 21	12 21.65	+11 56.4	2.130	3.019	9.8	21.2
3 2	12 15.00	+12 49.0	2.069	3.014	6.8	21.0
3 12	12 6.82	+13 39.0	2.035	3.009	4.5	20.8
3 22	11 57.88	+14 20.4	2.030	3.004	5.0	20.8
4 1	11 49.08	+14 47.8	2.054	2.998	7.6	21.0
4 11	11 41.31	+14 58.0	2.104	2.991	10.7	21.2
4 21	11 35.23	+14 50.3	2.177	2.985	13.5	21.3

343000 Ijontichy 3 20.3 149°.35 3°.9/24.4 17

2 11	12 23.41	−13 15.0	2.337	3.066	14.3	20.8
2 21	12 19.44	−13 32.4	2.241	3.068	11.8	20.6
3 2	12 13.52	−13 33.0	2.166	3.071	9.0	20.4
3 12	12 6.15	−13 17.0	2.116	3.072	6.0	20.2
3 22	11 58.03	−12 46.1	2.093	3.074	4.0	20.1
4 1	11 49.98	−12 4.1	2.100	3.076	4.8	20.2
4 11	11 42.84	−11 16.4	2.134	3.078	7.5	20.3
4 21	11 37.26	−10 28.7	2.194	3.079	10.5	20.5

116994 2004 HC_{47} 3 20.3 253°.65 1°.8/18.0 17

2 11	12 20.42	+ 2 59.4	2.526	3.323	11.5	20.5
2 21	12 16.95	+ 3 46.5	2.426	3.312	8.9	20.3
3 2	12 11.77	+ 4 42.8	2.351	3.300	5.9	20.1
3 12	12 5.32	+ 5 44.0	2.304	3.288	2.8	19.9
3 22	11 58.20	+ 6 44.8	2.286	3.276	2.3	19.8
4 1	11 51.12	+ 7 40.0	2.298	3.264	5.3	20.0
4 11	11 44.80	+ 8 24.7	2.337	3.252	8.5	20.2
4 21	11 39.81	+ 8 56.0	2.402	3.239	11.4	20.4

518829 2010 CJ_{187} 3 20.3 227°.45 5°.8/26.7 18

2 11	12 25.40	−19 44.8	2.668	3.345	13.8	21.5
2 21	12 20.92	−20 28.0	2.557	3.338	11.9	21.4
3 2	12 14.52	−20 54.9	2.467	3.330	9.7	21.2
3 12	12 6.64	−21 3.5	2.401	3.322	7.6	21.1
3 22	11 57.91	−20 53.7	2.362	3.314	6.0	20.9
4 1	11 49.13	−20 27.3	2.351	3.305	6.1	20.9
4 11	11 41.12	−19 48.4	2.368	3.297	7.7	21.0
4 21	11 34.55	−19 2.5	2.411	3.288	10.0	21.1

107111 2001 AJ_{37} 3 20.3 121°.83 3°.1/17.4 18

2 11	12 30.94	+ 6 51.9	1.992	2.790	14.2	19.6
2 21	12 25.26	+ 7 33.0	1.926	2.811	10.9	19.4
3 2	12 17.32	+ 8 20.3	1.884	2.831	7.3	19.3
3 12	12 7.83	+ 9 7.8	1.869	2.850	3.9	19.1
3 22	11 57.70	+ 9 49.2	1.883	2.868	3.7	19.1
4 1	11 47.96	+10 19.0	1.927	2.886	6.8	19.3
4 11	11 39.53	+10 33.9	1.998	2.902	10.3	19.6
4 21	11 33.06	+10 32.9	2.092	2.918	13.3	19.8

164568 2006 KU_{82} 3 20.3 138°.76 0°.8/21.1 18

2 11	12 25.49	− 5 47.2	1.784	2.563	16.3	21.2
2 21	12 21.49	− 5 14.4	1.703	2.573	12.9	21.0
3 2	12 15.08	− 4 22.7	1.643	2.582	8.9	20.7
3 12	12 6.91	− 3 16.0	1.609	2.590	4.4	20.5
3 22	11 57.88	− 2 0.3	1.602	2.598	0.9	20.2
4 1	11 49.07	− 0 43.6	1.624	2.606	5.2	20.6
4 11	11 41.53	+ 0 25.9	1.674	2.613	9.6	20.8
4 21	11 35.99	+ 1 22.3	1.747	2.619	13.4	21.1

453258 2008 SY_{156} 3 20.3 137°.80 1°.3/21.4 18

2 11	12 28.89	− 5 54.4	1.731	2.504	16.9	22.0
2 21	12 24.20	− 5 41.9	1.651	2.516	13.5	21.8
3 2	12 16.93	− 5 11.3	1.592	2.528	9.4	21.5
3 12	12 7.77	− 4 25.7	1.559	2.539	4.8	21.3
3 22	11 57.70	− 3 30.0	1.553	2.549	1.4	21.1
4 1	11 47.89	− 2 31.4	1.576	2.558	5.3	21.4
4 11	11 39.46	− 1 37.4	1.626	2.566	9.7	21.6
4 21	11 33.19	− 0 53.9	1.700	2.574	13.6	21.9

329319 2000 SL_{315} 3 20.3 153°.03 5°.6/26.9 17

2 11	12 23.42	−20 22.5	2.339	3.027	15.3	21.0
2 21	12 19.49	−20 30.8	2.243	3.033	13.1	20.8
3 2	12 13.57	−20 17.3	2.167	3.040	10.5	20.7
3 12	12 6.18	−19 41.3	2.114	3.045	7.9	20.5
3 22	11 58.04	−18 44.3	2.088	3.051	5.9	20.4
4 1	11 50.01	−17 30.6	2.090	3.056	5.9	20.4
4 11	11 42.95	−16 7.0	2.120	3.060	7.8	20.5
4 21	11 37.49	−14 41.0	2.177	3.064	10.5	20.7

92673 2000 QL_{56} 3 20.3 87°.92 2°.7/22.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 31.75	− 7 35.6	1.601	2.369	18.3	20.1
2 21	12 26.46	− 7 53.3	1.535	2.394	14.7	19.9
3 2	12 18.42	− 7 52.2	1.489	2.418	10.5	19.7
3 12	12 8.43	− 7 34.0	1.468	2.442	5.9	19.5
3 22	11 57.59	− 7 2.5	1.473	2.466	2.7	19.4
4 1	11 47.21	− 6 23.8	1.507	2.489	5.5	19.6
4 11	11 38.44	− 5 45.0	1.567	2.511	9.7	19.9
4 21	11 32.06	− 5 12.3	1.651	2.533	13.5	20.2

460546 2014 TP_{55} 3 20.3 65°.29 0°.4/20.5 18

2 11	12 31.37	− 0 31.1	1.625	2.417	17.1	20.0
2 21	12 26.19	− 0 50.8	1.554	2.432	13.4	19.8
3 2	12 18.28	− 0 59.0	1.503	2.446	9.1	19.5
3 12	12 8.39	− 0 58.3	1.478	2.461	4.3	19.3
3 22	11 57.60	− 0 52.7	1.480	2.476	0.8	19.1
4 1	11 47.18	− 0 46.7	1.510	2.491	5.7	19.4
4 11	11 38.32	− 0 45.0	1.567	2.506	10.1	19.7
4 21	11 31.78	− 0 51.0	1.647	2.521	14.0	20.0

170779 2004 CD_{98} 3 20.3 5°.06 5°.4/15.0 18

2 11	12 25.70	+14 28.8	2.055	2.872	13.1	19.7
2 21	12 21.36	+15 12.6	1.980	2.872	10.3	19.5
3 2	12 14.84	+15 56.9	1.929	2.872	7.4	19.4
3 12	12 6.75	+16 34.9	1.904	2.872	5.5	19.2
3 22	11 57.94	+17 0.5	1.908	2.873	6.1	19.3
4 1	11 49.37	+17 9.1	1.938	2.873	8.5	19.4
4 11	11 41.95	+16 58.3	1.994	2.874	11.5	19.6
4 21	11 36.35	+16 28.9	2.072	2.875	14.2	19.8

326995 2004 PN_{115} 3 20.3 281°.37 0°.3/20.0 17

2 11	12 20.70	− 4 9.1	1.906	2.696	15.0	21.5
2 21	12 17.93	− 3 16.2	1.794	2.672	11.9	21.2
3 2	12 12.88	− 2 3.1	1.704	2.648	8.1	20.9
3 12	12 6.01	− 0 33.6	1.639	2.623	3.8	20.6
3 22	11 58.06	+ 1 5.6	1.603	2.599	1.0	20.4
4 1	11 50.01	+ 2 45.8	1.595	2.574	5.7	20.6
4 11	11 42.90	+ 4 17.6	1.614	2.548	10.3	20.8
4 21	11 37.56	+ 5 33.6	1.658	2.523	14.4	21.0

523784 2015 BJ_{518} 3 20.3 283°.88 0°.2/21.8 18

2 11	12 4.29	− 4 22.6	21.304	22.053	1.7	21.9
2 21	12 3.21	− 4 17.3	21.189	22.042	1.3	21.8
3 2	12 1.97	− 4 10.7	21.101	22.031	0.9	21.8
3 12	12 0.62	− 4 3.0	21.042	22.019	0.5	21.7
3 22	11 59.23	− 3 54.7	21.013	22.008	0.2	21.7
4 1	11 57.84	− 3 46.1	21.015	21.996	0.5	21.7
4 11	11 56.52	− 3 37.6	21.046	21.985	0.9	21.8
4 21	11 55.31	− 3 29.5	21.106	21.973	1.3	21.8

227221 2005 RH_{8} 3 20.3 129°.00 0°.1/20.2 18

2 11	12 23.76	− 3 41.3	2.217	2.993	13.6	21.1
2 21	12 19.61	− 2 55.8	2.137	3.007	10.6	20.9
3 2	12 13.55	− 1 56.0	2.081	3.022	7.1	20.7
3 12	12 6.13	− 0 46.1	2.052	3.035	3.3	20.5
3 22	11 58.09	+ 0 28.4	2.052	3.048	0.7	20.3
4 1	11 50.27	+ 1 40.9	2.083	3.061	4.6	20.6
4 11	11 43.45	+ 2 45.2	2.141	3.073	8.3	20.9
4 21	11 38.23	+ 3 37.2	2.225	3.084	11.4	21.1

408119 2013 CO_{24} 3 20.3 341°.59 3°.7/17.2 18

2 11	12 22.36	+ 3 40.7	1.352	2.184	17.8	20.7
2 21	12 19.87	+ 4 49.1	1.277	2.181	13.8	20.4
3 2	12 14.44	+ 6 13.9	1.223	2.179	9.2	20.1
3 12	12 6.77	+ 7 46.2	1.192	2.177	4.7	19.9
3 22	11 57.94	+ 9 14.9	1.187	2.175	4.6	19.9
4 1	11 49.32	+10 28.5	1.208	2.174	9.0	20.1
4 11	11 42.24	+11 18.9	1.252	2.173	13.7	20.4
4 21	11 37.61	+11 42.8	1.316	2.172	17.9	20.6

313732 2003 UV_{185} 3 20.3 207°.38 0°.4/20.7 17 R

2 11	12 26.14	− 3 55.6	2.063	2.838	14.5	21.5
2 21	12 21.83	− 3 30.7	1.964	2.832	11.5	21.2
3 2	12 15.29	− 2 50.7	1.887	2.826	7.9	21.0
3 12	12 7.05	− 1 58.4	1.837	2.819	3.8	20.7
3 22	11 57.89	− 0 59.0	1.815	2.811	0.7	20.5
4 1	11 48.78	+ 0 1.4	1.823	2.803	5.0	20.8
4 11	11 40.69	+ 0 56.2	1.859	2.793	9.1	21.0
4 21	11 34.37	+ 1 40.2	1.919	2.784	12.7	21.2

293042 2006 WD_{98} 3 20.3 202°.61 1°.4/22.2 17

2 11	12 20.90	− 7 31.9	2.842	3.593	11.5	21.6
2 21	12 17.11	− 7 16.4	2.739	3.589	9.2	21.4
3 2	12 11.77	− 6 48.3	2.659	3.585	6.5	21.2
3 12	12 5.31	− 6 9.4	2.607	3.581	3.6	21.0
3 22	11 58.26	− 5 22.7	2.583	3.577	1.4	20.8
4 1	11 51.26	− 4 32.2	2.591	3.572	3.5	21.0
4 11	11 44.96	− 3 42.4	2.627	3.567	6.5	21.2
4 21	11 39.86	− 2 57.4	2.690	3.562	9.3	21.3

149420 2003 BC_{18} 3 20.3 110°.56 3°.0/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 24.16	+ 4 28.2	1.943	2.751	14.1	20.5
2 21	12 20.16	+ 5 37.2	1.875	2.767	10.8	20.4
3 2	12 14.02	+ 6 56.2	1.831	2.782	7.1	20.2
3 12	12 6.37	+ 8 18.1	1.814	2.797	3.7	20.0
3 22	11 58.05	+ 9 35.2	1.825	2.811	3.7	20.0
4 1	11 50.02	+10 40.2	1.865	2.825	6.9	20.2
4 11	11 43.16	+11 27.9	1.932	2.839	10.4	20.5
4 21	11 38.10	+11 56.2	2.021	2.852	13.5	20.7

147779 2005 QK_{107} 3 20.3 227°.81 1°.9/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.38	+ 5 4.4	2.740	3.535	10.8	20.3
2 21	12 18.30	+ 5 36.9	2.643	3.527	8.3	20.1
3 2	12 12.59	+ 6 15.7	2.571	3.518	5.5	19.9
3 12	12 5.69	+ 6 56.9	2.527	3.510	2.8	19.7
3 22	11 58.18	+ 7 36.1	2.512	3.501	2.4	19.7
4 1	11 50.74	+ 8 9.3	2.528	3.492	5.1	19.9
4 11	11 44.04	+ 8 32.8	2.572	3.483	8.0	20.0
4 21	11 38.61	+ 8 44.7	2.641	3.473	10.7	20.2

437326 2013 RD 3 20.3 187°.31 8°.6/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.70	+ 6 52.8	1.147	1.995	19.2	20.7
2 21	12 20.72	+10 21.1	1.081	1.995	14.8	20.4
3 2	12 15.35	+14 14.2	1.039	1.995	10.5	20.2
3 12	12 7.31	+18 10.0	1.024	1.994	8.6	20.0
3 22	11 57.83	+21 43.6	1.035	1.993	11.0	20.2
4 1	11 48.58	+24 34.0	1.071	1.991	15.4	20.4
4 11	11 41.14	+26 31.0	1.129	1.989	19.7	20.6
4 21	11 36.57	+27 35.6	1.202	1.987	23.5	20.9

433192 2012 UM_{23} 3 20.3 189°.09 2°.0/22.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.31	− 7 44.6	2.492	3.242	12.9	21.5
2 21	12 19.98	− 7 51.0	2.393	3.242	10.5	21.3
3 2	12 13.81	− 7 44.5	2.317	3.241	7.5	21.1
3 12	12 6.29	− 7 26.2	2.267	3.240	4.3	20.9
3 22	11 58.06	− 6 58.5	2.247	3.238	2.0	20.7
4 1	11 49.90	− 6 25.3	2.256	3.237	4.0	20.9
4 11	11 42.59	− 5 51.1	2.293	3.235	7.2	21.1
4 21	11 36.71	− 5 20.1	2.357	3.233	10.3	21.3

381219 2007 RL_{222} 3 20.3 70°.00 1°.2/21.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.96	− 6 46.9	2.133	2.905	14.2	21.1
2 21	12 17.57	− 6 21.5	2.053	2.917	11.3	20.9
3 2	12 12.25	− 5 40.1	1.995	2.929	7.8	20.7
3 12	12 5.56	− 4 45.6	1.962	2.941	4.1	20.5
3 22	11 58.23	− 3 42.7	1.958	2.953	1.2	20.3
4 1	11 51.09	− 2 37.5	1.983	2.965	4.3	20.5
4 11	11 44.95	− 1 36.4	2.035	2.977	8.0	20.8
4 21	11 40.39	− 0 44.5	2.113	2.990	11.2	21.0

426824 2013 UQ_{7} 3 20.3 196°.59 5°.5/13.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.04	+15 12.5	2.422	3.234	11.5	21.4
2 21	12 19.83	+16 30.2	2.344	3.232	9.1	21.2
3 2	12 13.72	+17 49.4	2.291	3.228	6.8	21.1
3 12	12 6.24	+19 3.1	2.266	3.225	5.5	21.0
3 22	11 58.09	+20 4.5	2.270	3.221	6.3	21.0
4 1	11 50.06	+20 48.4	2.301	3.216	8.5	21.1
4 11	11 42.97	+21 11.8	2.359	3.211	11.0	21.3
4 21	11 37.40	+21 14.6	2.439	3.205	13.4	21.4

207497 2006 HO_{90} 3 20.3 280°.38 0°.9/19.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.25	− 0 9.2	1.541	2.350	17.1	20.9
2 21	12 21.93	+ 0 12.3	1.450	2.339	13.5	20.6
3 2	12 15.79	+ 0 49.3	1.379	2.328	9.1	20.3
3 12	12 7.42	+ 1 37.6	1.332	2.318	4.1	20.0
3 22	11 57.82	+ 2 30.3	1.312	2.307	1.6	19.8
4 1	11 48.25	+ 3 19.5	1.318	2.296	6.7	20.1
4 11	11 40.03	+ 3 57.7	1.349	2.286	11.7	20.4
4 21	11 34.09	+ 4 19.8	1.403	2.275	16.1	20.6

356940 2012 TX_{199} 3 20.3 100°.78 3°.9/25.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.45	−15 18.0	2.451	3.169	13.9	20.9
2 21	12 17.78	−15 20.1	2.361	3.180	11.6	20.8
3 2	12 12.33	−15 4.1	2.292	3.190	8.9	20.6
3 12	12 5.59	−14 30.4	2.248	3.200	6.1	20.5
3 22	11 58.23	−13 41.5	2.232	3.210	4.1	20.3
4 1	11 51.00	−12 41.7	2.244	3.220	4.6	20.4
4 11	11 44.65	−11 36.8	2.285	3.230	7.1	20.6
4 21	11 39.75	−10 32.8	2.352	3.239	9.8	20.7

140706 2001 UV_{79} 3 20.3 122°.85 1°.3/19.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.45	+ 0 56.8	1.880	2.679	14.8	20.3
2 21	12 20.57	+ 1 31.7	1.799	2.685	11.5	20.1
3 2	12 14.42	+ 2 18.8	1.741	2.690	7.6	19.9
3 12	12 6.62	+ 3 13.3	1.710	2.695	3.4	19.7
3 22	11 58.01	+ 4 8.8	1.706	2.700	1.9	19.5
4 1	11 49.61	+ 4 58.7	1.730	2.704	5.9	19.8
4 11	11 42.38	+ 5 37.3	1.782	2.709	9.9	20.1
4 21	11 37.02	+ 6 1.0	1.856	2.713	13.4	20.3

317832 2003 SO_{325} 3 20.3 115°.03 1°.0/19.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.05	− 0 37.3	1.644	2.447	16.4	21.4
2 21	12 21.36	+ 0 0.4	1.567	2.453	12.8	21.2
3 2	12 15.12	+ 0 53.6	1.511	2.459	8.5	20.9
3 12	12 6.99	+ 1 57.0	1.480	2.465	3.8	20.7
3 22	11 57.94	+ 3 3.4	1.476	2.471	1.7	20.5
4 1	11 49.14	+ 4 4.6	1.500	2.477	6.3	20.8
4 11	11 41.69	+ 4 53.4	1.550	2.483	10.8	21.1
4 21	11 36.35	+ 5 25.5	1.623	2.488	14.6	21.4

209942 2006 DG_{60} 3 20.3 298°.00 0°.6/20.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.39	− 3 27.7	1.438	2.244	18.2	20.7
2 21	12 20.88	− 3 18.1	1.335	2.221	14.6	20.4
3 2	12 15.38	− 2 49.0	1.251	2.198	10.2	20.1
3 12	12 7.38	− 2 2.7	1.191	2.174	5.0	19.7
3 22	11 57.82	− 1 5.0	1.155	2.151	0.9	19.3
4 1	11 48.07	− 0 4.0	1.145	2.128	6.6	19.6
4 11	11 39.59	+ 0 50.4	1.160	2.105	12.2	19.9
4 21	11 33.54	+ 1 30.7	1.196	2.083	17.2	20.1

190727 2001 OP_{97} 3 20.3 159°.20 2°.8/22.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.63	− 9 56.2	1.926	2.675	16.3	20.4
2 21	12 23.86	− 9 53.6	1.837	2.683	13.2	20.2
3 2	12 16.68	− 9 32.0	1.769	2.690	9.6	20.0
3 12	12 7.70	− 8 52.5	1.726	2.697	5.7	19.8
3 22	11 57.81	− 7 58.9	1.712	2.702	2.8	19.6
4 1	11 48.09	− 6 57.1	1.726	2.707	5.0	19.8
4 11	11 39.58	− 5 54.6	1.768	2.711	8.9	20.0
4 21	11 33.05	− 4 58.1	1.835	2.714	12.5	20.2

498181 2007 TE_{232} 3 20.3 183°.12 0°.5/19.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.10	− 0 38.1	2.540	3.322	11.9	22.5
2 21	12 18.18	− 0 7.9	2.447	3.322	9.3	22.3
3 2	12 12.56	+ 0 32.6	2.379	3.322	6.2	22.1
3 12	12 5.71	+ 1 19.9	2.338	3.322	2.8	21.8
3 22	11 58.23	+ 2 9.8	2.326	3.321	1.0	21.7
4 1	11 50.86	+ 2 57.3	2.344	3.320	4.4	21.9
4 11	11 44.30	+ 3 38.0	2.391	3.319	7.7	22.1
4 21	11 39.09	+ 4 8.6	2.464	3.318	10.6	22.3

341153 2007 PE_{31} 3 20.3 242°.99 5°.4/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.02	−18 0.9	2.469	3.164	14.4	21.1
2 21	12 20.82	−18 33.1	2.353	3.150	12.3	20.9
3 2	12 14.59	−18 47.8	2.258	3.136	9.9	20.7
3 12	12 6.76	−18 43.5	2.188	3.122	7.4	20.5
3 22	11 57.99	−18 20.3	2.144	3.107	5.6	20.4
4 1	11 49.14	−17 40.8	2.128	3.092	5.9	20.4
4 11	11 41.09	−16 49.9	2.141	3.077	8.0	20.5
4 21	11 34.56	−15 53.6	2.179	3.061	10.7	20.6

297565 2001 RR_{34} 3 20.3 248°.13 3°.2/22.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.07	− 9 31.5	1.679	2.444	17.7	21.8
2 21	12 23.31	− 9 41.4	1.574	2.430	14.6	21.5
3 2	12 16.75	− 9 30.9	1.489	2.415	10.7	21.3
3 12	12 7.93	− 9 0.0	1.428	2.400	6.4	21.0
3 22	11 57.74	− 8 11.7	1.393	2.384	3.3	20.7
4 1	11 47.43	− 7 11.7	1.385	2.368	5.8	20.8
4 11	11 38.33	− 6 8.7	1.404	2.351	10.4	21.1
4 21	11 31.44	− 5 10.8	1.446	2.333	14.8	21.3

300062 2006 UR_{189} 3 20.3 210°.09 3°.0/23.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.35	−11 34.2	2.714	3.443	12.5	20.8
2 21	12 19.15	−11 46.1	2.609	3.438	10.3	20.6
3 2	12 13.24	−11 44.2	2.525	3.434	7.7	20.4
3 12	12 6.04	−11 28.9	2.468	3.429	5.0	20.3
3 22	11 58.16	−11 1.9	2.439	3.424	3.1	20.1
4 1	11 50.30	−10 26.4	2.441	3.418	4.1	20.2
4 11	11 43.19	− 9 46.8	2.471	3.413	6.8	20.3
4 21	11 37.40	− 9 7.6	2.528	3.407	9.5	20.5

505550 2013 YS_{139} 3 20.3 64°.16 3°.6/24.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.14	−12 6.3	2.288	3.026	14.3	21.2
2 21	12 19.26	−12 24.8	2.196	3.030	11.8	21.0
3 2	12 13.43	−12 27.1	2.125	3.035	8.9	20.8
3 12	12 6.15	−12 13.5	2.079	3.040	5.8	20.7
3 22	11 58.14	−11 45.8	2.061	3.045	3.7	20.5
4 1	11 50.23	−11 8.0	2.072	3.049	4.7	20.6
4 11	11 43.25	−10 25.3	2.110	3.054	7.6	20.8
4 21	11 37.83	− 9 43.2	2.173	3.059	10.6	21.0

504675 2009 DN_{3} 3 20.3 298°.86 0°.6/19.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.97	− 2 43.7	1.488	2.298	17.5	21.3
2 21	12 18.76	− 2 4.4	1.390	2.280	13.9	21.0
3 2	12 13.78	− 1 3.7	1.312	2.261	9.4	20.7
3 12	12 6.56	+ 0 14.1	1.258	2.243	4.3	20.3
3 22	11 58.02	+ 1 41.2	1.229	2.225	1.3	20.1
4 1	11 49.42	+ 3 7.4	1.227	2.207	6.8	20.4
4 11	11 42.07	+ 4 22.1	1.250	2.190	12.1	20.6
4 21	11 36.98	+ 5 17.8	1.294	2.172	16.7	20.8

162650 2000 SS_{222} 3 20.3 47°.86 3°.7/23.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 24.07	−10 26.1	1.375	2.158	20.1	19.6
2 21	12 21.13	−10 35.7	1.302	2.167	16.4	19.3
3 2	12 15.24	−10 20.3	1.248	2.177	12.0	19.1
3 12	12 7.14	− 9 40.9	1.216	2.188	7.2	18.9
3 22	11 57.94	− 8 42.3	1.208	2.199	3.8	18.7
4 1	11 49.03	− 7 32.6	1.226	2.210	6.1	18.8
4 11	11 41.72	− 6 22.2	1.268	2.221	10.6	19.1
4 21	11 36.89	− 5 20.1	1.333	2.233	14.9	19.4

438383 2006 TF_{124} 3 20.3 355°.17 6°.1/27.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.68	−20 50.0	2.052	2.759	16.6	20.7
2 21	12 15.41	−20 56.2	1.954	2.756	14.3	20.5
3 2	12 11.05	−20 37.3	1.875	2.754	11.6	20.3
3 12	12 5.12	−19 52.2	1.818	2.752	8.7	20.1
3 22	11 58.36	−18 42.7	1.787	2.751	6.5	20.0
4 1	11 51.68	−17 13.8	1.782	2.750	6.3	19.9
4 11	11 45.99	−15 33.7	1.803	2.750	8.5	20.1
4 21	11 41.99	−13 51.4	1.850	2.751	11.4	20.2

431874 2008 SH_{169} 3 20.3 0°.94 1°.7/21.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.45	− 5 55.9	1.945	2.719	15.3	21.6
2 21	12 20.61	− 6 0.1	1.854	2.719	12.3	21.3
3 2	12 14.51	− 5 49.1	1.785	2.719	8.6	21.1
3 12	12 6.72	− 5 24.8	1.741	2.719	4.7	20.9
3 22	11 58.03	− 4 50.7	1.725	2.719	1.7	20.7
4 1	11 49.46	− 4 11.8	1.736	2.719	4.8	20.9
4 11	11 41.99	− 3 34.3	1.775	2.719	8.8	21.1
4 21	11 36.34	− 3 3.2	1.839	2.719	12.4	21.3

42075 2001 AL_3 3 20.3 81°.89 4°.2/15.7 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.96	+ 8 6.4	1.903	2.721	13.9	18.7
2 21	12 19.28	+ 9 23.4	1.840	2.737	10.7	18.5
3 2	12 13.46	+10 47.2	1.802	2.753	7.2	18.3
3 12	12 6.14	+12 10.0	1.791	2.769	4.5	18.2
3 22	11 58.17	+13 23.6	1.807	2.784	5.0	18.2
4 1	11 50.50	+14 21.2	1.852	2.800	8.0	18.4
4 11	11 44.03	+14 58.5	1.922	2.815	11.2	18.7
4 21	11 39.36	+15 14.5	2.014	2.830	14.1	18.9

338420 2003 BQ_{62} 3 20.3 13°.34 0°.7/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.04	− 2 1.6	1.774	2.570	15.7	20.1
2 21	12 20.42	− 2 15.9	1.694	2.574	12.4	19.8
3 2	12 14.42	− 2 17.9	1.636	2.579	8.5	19.6
3 12	12 6.67	− 2 10.0	1.602	2.584	4.2	19.4
3 22	11 58.06	− 1 56.0	1.595	2.591	0.9	19.1
4 1	11 49.65	− 1 40.5	1.616	2.598	5.1	19.4
4 11	11 42.47	− 1 28.5	1.663	2.606	9.3	19.7
4 21	11 37.25	− 1 23.8	1.733	2.615	13.0	19.9

502852 2015 DX_{176} 3 20.3 255°.33 5°.4/26.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.63	−18 24.0	2.135	2.846	16.0	21.8
2 21	12 18.45	−18 30.5	2.026	2.835	13.6	21.6
3 2	12 13.12	−18 14.2	1.937	2.824	10.8	21.4
3 12	12 6.11	−17 34.1	1.871	2.813	7.9	21.2
3 22	11 58.16	−16 31.7	1.831	2.802	5.6	21.0
4 1	11 50.20	−15 11.6	1.818	2.790	5.9	21.0
4 11	11 43.18	−13 41.3	1.833	2.779	8.4	21.1
4 21	11 37.84	−12 9.2	1.874	2.767	11.6	21.3

30885 1992 UU_4 3 20.3 107°.41 5°.5/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.83	−19 53.3	2.130	2.828	16.3	18.3
2 21	12 19.93	−19 56.4	2.047	2.845	13.9	18.1
3 2	12 13.92	−19 35.9	1.982	2.861	11.0	18.0
3 12	12 6.38	−18 51.3	1.941	2.878	8.1	17.8
3 22	11 58.13	−17 45.2	1.927	2.893	5.9	17.7
4 1	11 50.09	−16 22.7	1.940	2.909	5.9	17.7
4 11	11 43.16	−14 51.9	1.981	2.924	8.1	17.9
4 21	11 37.98	−13 20.8	2.048	2.938	10.9	18.1

32879 1993 OO_5 3 20.3 55°.21 1°.3/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.94	− 0 4.4	1.369	2.186	18.4	18.8
2 21	12 21.75	+ 0 30.0	1.299	2.193	14.4	18.6
3 2	12 15.62	+ 1 21.5	1.249	2.200	9.6	18.3
3 12	12 7.30	+ 2 24.0	1.222	2.208	4.3	18.0
3 22	11 57.94	+ 3 29.0	1.221	2.216	2.0	17.9
4 1	11 48.89	+ 4 27.1	1.247	2.224	7.1	18.2
4 11	11 41.46	+ 5 10.4	1.296	2.232	12.1	18.5
4 21	11 36.50	+ 5 34.7	1.367	2.241	16.3	18.8

349397 2007 XM_{52} 3 20.3 163°.64 4°.6/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.11	+14 15.9	2.677	3.488	10.6	21.2
2 21	12 18.10	+15 20.5	2.603	3.491	8.3	21.1
3 2	12 12.45	+16 26.3	2.554	3.494	6.0	20.9
3 12	12 5.64	+17 27.5	2.534	3.497	4.7	20.8
3 22	11 58.29	+18 18.5	2.542	3.499	5.3	20.9
4 1	11 51.08	+18 55.0	2.580	3.502	7.3	21.0
4 11	11 44.71	+19 14.6	2.643	3.504	9.7	21.2
4 21	11 39.67	+19 16.8	2.729	3.505	11.8	21.3

167993 2005 GS_{103} 3 20.3 76°.32 0°.3/20.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.72	− 1 17.0	2.124	2.913	13.7	20.4
2 21	12 18.99	− 0 55.0	2.039	2.917	10.7	20.2
3 2	12 13.26	− 0 21.1	1.978	2.922	7.2	20.0
3 12	12 6.08	+ 0 21.3	1.943	2.927	3.3	19.8
3 22	11 58.20	+ 1 7.2	1.936	2.932	0.9	19.6
4 1	11 50.48	+ 1 51.1	1.959	2.937	4.9	19.9
4 11	11 43.77	+ 2 28.0	2.008	2.942	8.6	20.1
4 21	11 38.68	+ 2 54.1	2.083	2.947	11.9	20.4

330899 2009 SX_{38} 3 20.3 228°.83 0°.2/20.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.24	− 2 47.5	2.222	2.997	13.6	22.0
2 21	12 21.02	− 2 27.3	2.117	2.986	10.7	21.8
3 2	12 14.72	− 1 54.0	2.035	2.975	7.3	21.5
3 12	12 6.82	− 1 10.6	1.980	2.963	3.5	21.3
3 22	11 58.04	− 0 21.2	1.954	2.950	0.7	21.0
4 1	11 49.27	+ 0 28.5	1.958	2.937	4.8	21.3
4 11	11 41.41	+ 1 13.0	1.990	2.923	8.7	21.5
4 21	11 35.16	+ 1 47.8	2.046	2.909	12.1	21.7

57255 2001 QR_{103} 3 20.3 213°.71 2°.3/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.49	+ 3 36.5	1.835	2.634	15.2	20.1
2 21	12 24.75	+ 4 11.6	1.742	2.627	11.8	19.8
3 2	12 17.44	+ 4 57.5	1.671	2.619	7.9	19.6
3 12	12 8.15	+ 5 49.0	1.626	2.610	3.8	19.3
3 22	11 57.78	+ 6 39.3	1.609	2.600	2.9	19.2
4 1	11 47.48	+ 7 21.4	1.622	2.590	6.9	19.4
4 11	11 38.40	+ 7 49.7	1.661	2.579	11.1	19.6
4 21	11 31.39	+ 8 1.2	1.723	2.567	14.9	19.9

169615 2002 GK_{121} 3 20.3 184°.13 2°.3/18.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.35	+ 4 0.1	1.829	2.631	15.1	20.4
2 21	12 23.75	+ 4 32.2	1.745	2.632	11.7	20.2
3 2	12 16.67	+ 5 14.1	1.683	2.632	7.8	20.0
3 12	12 7.74	+ 6 0.5	1.647	2.631	3.8	19.7
3 22	11 57.87	+ 6 44.9	1.639	2.630	2.9	19.7
4 1	11 48.19	+ 7 20.8	1.660	2.629	6.7	19.9
4 11	11 39.76	+ 7 43.1	1.707	2.627	10.8	20.1
4 21	11 33.36	+ 7 49.4	1.778	2.625	14.4	20.4

203421 2001 XJ_{211} 3 20.3 75°.53 0°.6/20.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.36	− 5 19.3	1.421	2.218	18.8	20.4
2 21	12 21.86	− 4 45.0	1.356	2.237	14.8	20.1
3 2	12 15.54	− 3 48.9	1.312	2.256	10.1	19.9
3 12	12 7.21	− 2 36.2	1.291	2.274	4.9	19.7
3 22	11 58.00	− 1 14.9	1.297	2.293	0.9	19.4
4 1	11 49.20	+ 0 5.0	1.329	2.311	6.0	19.8
4 11	11 42.01	+ 1 14.3	1.387	2.329	10.8	20.1
4 21	11 37.19	+ 2 6.6	1.467	2.347	15.0	20.4

337606 2001 TH_{12} 3 20.3 110°.56 2°.3/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.57	+ 6 8.5	2.421	3.219	11.9	20.7
2 21	12 20.09	+ 6 36.3	2.343	3.228	9.2	20.5
3 2	12 13.83	+ 7 9.5	2.289	3.237	6.1	20.3
3 12	12 6.30	+ 7 43.9	2.263	3.246	3.1	20.1
3 22	11 58.19	+ 8 14.8	2.267	3.254	2.8	20.1
4 1	11 50.29	+ 8 37.9	2.300	3.263	5.6	20.3
4 11	11 43.33	+ 8 50.3	2.360	3.271	8.6	20.5
4 21	11 37.85	+ 8 50.2	2.445	3.279	11.4	20.7

7273 Garyhuss 3 20.3 142°.29 3°.9/24.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.55	−13 7.5	2.336	3.057	14.5	18.9
2 21	12 22.62	−13 28.7	2.245	3.068	12.0	18.7
3 2	12 15.66	−13 33.3	2.175	3.078	9.1	18.5
3 12	12 7.21	−13 21.5	2.131	3.087	6.1	18.4
3 22	11 58.01	−12 54.8	2.116	3.096	4.0	18.2
4 1	11 48.94	−12 17.0	2.129	3.105	4.9	18.3
4 11	11 40.87	−11 33.3	2.172	3.112	7.6	18.5
4 21	11 34.44	−10 49.5	2.240	3.120	10.5	18.7

6008 1990 BF_2 3 20.3 52°.52 3°.5/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.22	+ 4 31.2	1.328	2.156	18.3	17.2
2 21	12 22.90	+ 5 18.6	1.258	2.159	14.2	17.0
3 2	12 16.49	+ 6 19.4	1.208	2.163	9.4	16.7
3 12	12 7.76	+ 7 25.3	1.182	2.166	4.8	16.4
3 22	11 57.90	+ 8 26.7	1.181	2.170	4.2	16.4
4 1	11 48.35	+ 9 13.9	1.206	2.174	8.7	16.7
4 11	11 40.49	+ 9 40.4	1.254	2.178	13.4	17.0
4 21	11 35.22	+ 9 44.0	1.322	2.182	17.6	17.2

185075 2006 RB_{62} 3 20.3 350°.09 3°.4/22.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.59	− 8 37.0	1.493	2.275	18.8	19.9
2 21	12 21.50	− 9 0.5	1.407	2.273	15.3	19.7
3 2	12 15.56	− 9 3.7	1.340	2.271	11.2	19.4
3 12	12 7.38	− 8 47.0	1.295	2.269	6.7	19.1
3 22	11 57.98	− 8 13.3	1.276	2.267	3.4	18.9
4 1	11 48.67	− 7 28.7	1.283	2.266	6.0	19.1
4 11	11 40.78	− 6 41.6	1.315	2.266	10.5	19.3
4 21	11 35.25	− 5 59.6	1.369	2.266	14.8	19.6

410416 2008 AY_{31} 3 20.3 42°.36 0°.4/20.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.22	− 3 48.7	1.352	2.162	19.0	21.0
2 21	12 20.36	− 3 26.2	1.288	2.176	14.9	20.8
3 2	12 14.65	− 2 43.5	1.243	2.190	10.1	20.5
3 12	12 6.86	− 1 45.3	1.221	2.205	4.8	20.3
3 22	11 58.12	− 0 39.4	1.225	2.221	0.8	20.0
4 1	11 49.77	+ 0 24.9	1.254	2.237	6.2	20.4
4 11	11 43.04	+ 1 18.9	1.309	2.254	11.1	20.7
4 21	11 38.70	+ 1 56.9	1.384	2.271	15.4	21.0

248532 2005 WH_{152} 3 20.3 250°.60 5°.7/28.8 17

2 11	12 21.85	−25 10.5	3.282	3.912	12.2	21.9
2 21	12 17.94	−25 22.5	3.149	3.889	10.7	21.7
3 2	12 12.44	−25 16.8	3.036	3.866	9.1	21.6
3 12	12 5.73	−24 52.1	2.947	3.843	7.3	21.4
3 22	11 58.33	−24 8.6	2.885	3.819	6.0	21.3
4 1	11 50.86	−23 8.0	2.851	3.794	5.7	21.2
4 11	11 43.97	−21 54.6	2.845	3.768	6.8	21.3
4 21	11 38.21	−20 33.7	2.867	3.742	8.7	21.3

332552 2008 RM_{1} 3 20.3 223°.88 4°.4/14.2 18

2 11	12 23.15	+11 12.2	2.564	3.371	11.1	21.5
2 21	12 19.14	+12 37.5	2.470	3.359	8.6	21.3
3 2	12 13.32	+14 8.3	2.402	3.346	6.1	21.1
3 12	12 6.15	+15 38.0	2.364	3.332	4.5	21.0
3 22	11 58.26	+16 59.6	2.355	3.318	5.2	21.0
4 1	11 50.39	+18 7.1	2.376	3.303	7.6	21.1
4 11	11 43.30	+18 56.2	2.423	3.287	10.3	21.3
4 21	11 37.61	+19 25.2	2.494	3.271	12.8	21.4

431171 2006 RL_{85} 3 20.3 241°.54 0°.3/20.0 17

2 11	12 23.16	− 1 4.6	2.819	3.592	11.1	22.4
2 21	12 18.97	− 0 42.5	2.706	3.575	8.7	22.2
3 2	12 13.13	− 0 10.9	2.617	3.558	5.9	22.0
3 12	12 6.05	+ 0 27.7	2.557	3.540	2.7	21.8
3 22	11 58.29	+ 1 9.6	2.526	3.522	0.7	21.6
4 1	11 50.51	+ 1 50.7	2.526	3.503	4.1	21.8
4 11	11 43.40	+ 2 26.9	2.556	3.484	7.3	22.0
4 21	11 37.51	+ 2 55.0	2.611	3.464	10.1	22.1

52281 1989 SJ_{1} 3 20.3 201°.84 1°.7/18.5 18

2 11	12 25.57	+ 2 37.2	2.303	3.093	12.7	20.3
2 21	12 21.13	+ 3 18.0	2.208	3.089	9.9	20.1
3 2	12 14.70	+ 4 8.4	2.137	3.084	6.5	19.9
3 12	12 6.81	+ 5 4.2	2.094	3.078	3.1	19.7
3 22	11 58.14	+ 5 59.7	2.080	3.071	2.2	19.6
4 1	11 49.56	+ 6 49.2	2.096	3.064	5.6	19.8
4 11	11 41.90	+ 7 27.9	2.140	3.057	9.1	20.0
4 21	11 35.81	+ 7 52.8	2.209	3.048	12.2	20.2

117795 2005 GJ_{140} 3 20.3 338°.85 6°.4/15.3 18

2 11	12 25.56	+12 6.5	1.444	2.279	16.7	19.7
2 21	12 22.26	+13 6.7	1.372	2.275	13.1	19.4
3 2	12 16.03	+14 12.0	1.320	2.271	9.3	19.2
3 12	12 7.57	+15 12.5	1.293	2.267	6.6	19.0
3 22	11 57.99	+15 58.4	1.291	2.263	7.3	19.1
4 1	11 48.67	+16 21.7	1.314	2.260	10.7	19.2
4 11	11 40.92	+16 18.7	1.360	2.258	14.6	19.5
4 21	11 35.61	+15 49.9	1.425	2.256	18.1	19.7

86518 2000 DL_{68} 3 20.3 33°.89 0°.6/19.8 18

2 11	12 22.75	− 2 1.0	1.692	2.493	16.1	19.9
2 21	12 19.61	− 1 21.8	1.608	2.493	12.6	19.7
3 2	12 14.01	− 0 25.6	1.546	2.493	8.5	19.4
3 12	12 6.57	+ 0 42.8	1.509	2.494	3.9	19.1
3 22	11 58.20	+ 1 56.2	1.499	2.494	1.3	18.9
4 1	11 49.99	+ 3 6.3	1.517	2.495	6.0	19.3
4 11	11 43.01	+ 4 5.4	1.560	2.496	10.5	19.5
4 21	11 38.04	+ 4 48.3	1.627	2.496	14.4	19.8

291887 2006 PM_{26} 3 20.3 266°.24 1°.7/18.8 17

2 11	12 25.90	+ 1 36.1	1.784	2.586	15.4	21.6
2 21	12 22.20	+ 2 10.4	1.679	2.566	12.1	21.3
3 2	12 15.92	+ 2 58.5	1.596	2.545	8.1	21.0
3 12	12 7.56	+ 3 55.6	1.539	2.524	3.8	20.7
3 22	11 57.98	+ 4 55.0	1.509	2.502	2.3	20.5
4 1	11 48.31	+ 5 49.1	1.507	2.480	6.7	20.8
4 11	11 39.72	+ 6 30.8	1.531	2.457	11.3	21.0
4 21	11 33.16	+ 6 55.7	1.578	2.434	15.4	21.2

262259 2006 SJ_{328} 3 20.3 213°.59 1°.7/18.6 14 C

2 11	12 26.26	+ 2 15.9	2.113	2.906	13.6	22.2
2 21	12 21.89	+ 2 55.2	2.017	2.899	10.6	22.0
3 2	12 15.35	+ 3 45.4	1.944	2.891	7.1	21.8
3 12	12 7.15	+ 4 41.9	1.898	2.883	3.3	21.5
3 22	11 58.08	+ 5 38.6	1.881	2.873	2.3	21.4
4 1	11 49.07	+ 6 29.3	1.894	2.864	5.9	21.6
4 11	11 41.07	+ 7 8.7	1.934	2.853	9.7	21.8
4 21	11 34.78	+ 7 33.2	1.998	2.842	13.2	22.0

506201 2016 GA_{208} 3 20.3 272°.95 4°.5/15.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.39	+ 7 56.5	1.898	2.715	14.0	21.4
2 21	12 20.08	+ 9 11.7	1.796	2.692	10.9	21.1
3 2	12 14.39	+10 37.8	1.719	2.669	7.5	20.8
3 12	12 6.81	+12 7.0	1.667	2.645	4.8	20.6
3 22	11 58.14	+13 30.6	1.644	2.621	5.4	20.6
4 1	11 49.40	+14 39.7	1.649	2.597	8.7	20.8
4 11	11 41.68	+15 27.8	1.678	2.572	12.5	20.9
4 21	11 35.81	+15 52.2	1.730	2.547	16.0	21.1

259368 2003 HZ_{11} 3 20.3 323°.77 7°.0/13.0 17

2 11	12 17.30	+10 35.7	1.463	2.310	15.8	19.3
2 21	12 15.94	+12 26.6	1.378	2.290	12.4	19.0
3 2	12 11.90	+14 30.1	1.316	2.269	9.0	18.8
3 12	12 5.74	+16 34.5	1.278	2.250	7.0	18.6
3 22	11 58.36	+18 26.3	1.266	2.231	8.4	18.6
4 1	11 51.00	+19 53.3	1.278	2.213	12.0	18.8
4 11	11 44.91	+20 47.7	1.312	2.196	16.0	19.0
4 21	11 41.03	+21 7.6	1.364	2.180	19.6	19.2

413511 2005 RS_{24} 3 20.3 86°.64 1°.7/22.6 18

2 11	12 23.47	−15 18.8	1.893	2.628	17.0	20.7
2 21	12 19.76	−13 22.5	1.809	2.648	13.7	20.5
3 2	12 13.85	−10 54.8	1.747	2.667	9.8	20.3
3 12	12 6.39	− 8 1.2	1.713	2.686	5.4	20.1
3 22	11 58.27	− 4 52.2	1.711	2.705	1.7	19.8
4 1	11 50.47	− 1 41.8	1.742	2.724	4.8	20.1
4 11	11 43.90	+ 1 16.2	1.804	2.742	9.0	20.4
4 21	11 39.18	+ 3 51.5	1.894	2.761	12.8	20.6

461772 2005 UL_{381} 3 20.3 3°.78 6°.5/14.6 17

2 11	12 27.22	+15 15.2	1.745	2.568	14.8	21.3
2 21	12 23.00	+16 12.1	1.674	2.568	11.7	21.1
3 2	12 16.22	+17 9.8	1.626	2.568	8.6	20.9
3 12	12 7.57	+17 59.4	1.603	2.568	6.7	20.8
3 22	11 58.03	+18 33.1	1.607	2.569	7.4	20.8
4 1	11 48.78	+18 45.1	1.637	2.569	10.1	21.0
4 11	11 40.92	+18 33.1	1.691	2.569	13.3	21.2
4 21	11 35.20	+17 58.5	1.766	2.570	16.3	21.4

269076 2007 GF_{68} 3 20.3 281°.86 1°.3/19.0 17

2 11	12 22.04	+ 0 13.8	1.890	2.692	14.6	20.7
2 21	12 18.82	+ 0 57.0	1.802	2.689	11.4	20.4
3 2	12 13.37	+ 1 54.0	1.736	2.685	7.6	20.2
3 12	12 6.26	+ 2 59.8	1.696	2.682	3.4	19.9
3 22	11 58.29	+ 4 7.9	1.685	2.679	1.9	19.8
4 1	11 50.43	+ 5 10.8	1.701	2.675	6.0	20.1
4 11	11 43.65	+ 6 2.0	1.744	2.672	10.0	20.3
4 21	11 38.67	+ 6 37.4	1.810	2.669	13.6	20.5

140309 2001 SL_{318} 3 20.3 59°.92 3°.1/18.1 18

2 11	12 27.49	+ 4 20.8	1.305	2.132	18.6	20.0
2 21	12 23.82	+ 4 58.8	1.242	2.142	14.4	19.7
3 2	12 17.06	+ 5 49.2	1.199	2.153	9.6	19.5
3 12	12 8.02	+ 6 44.1	1.180	2.165	4.7	19.2
3 22	11 57.95	+ 7 34.6	1.185	2.176	3.8	19.2
4 1	11 48.32	+ 8 11.9	1.217	2.188	8.3	19.5
4 11	11 40.47	+ 8 30.3	1.272	2.200	13.0	19.8
4 21	11 35.25	+ 8 27.8	1.348	2.211	17.1	20.1

289819 2005 KA_{3} 3 20.3 291°.45 3°.5/17.5 17

2 11	12 25.12	+ 5 44.9	1.592	2.413	16.1	21.0
2 21	12 21.86	+ 6 25.5	1.496	2.394	12.6	20.7
3 2	12 15.83	+ 7 17.4	1.422	2.375	8.5	20.4
3 12	12 7.56	+ 8 13.9	1.372	2.356	4.5	20.1
3 22	11 58.01	+ 9 6.9	1.349	2.337	4.2	20.1
4 1	11 48.42	+ 9 48.0	1.352	2.318	8.3	20.3
4 11	11 40.09	+10 10.8	1.380	2.299	12.9	20.5
4 21	11 34.00	+10 12.4	1.429	2.281	17.0	20.7

124500 2001 RL_{49} 3 20.3 85°.93 1°.5/21.6 18

2 11	12 25.73	− 7 24.7	1.455	2.242	18.9	20.1
2 21	12 22.16	− 6 57.4	1.387	2.259	15.1	19.9
3 2	12 15.79	− 6 6.8	1.338	2.276	10.5	19.7
3 12	12 7.40	− 4 57.0	1.313	2.293	5.4	19.4
3 22	11 58.08	− 3 35.1	1.314	2.310	1.5	19.2
4 1	11 49.14	− 2 11.1	1.343	2.326	5.7	19.5
4 11	11 41.77	− 0 54.7	1.397	2.342	10.5	19.8
4 21	11 36.76	+ 0 6.8	1.473	2.358	14.7	20.1

435041 2006 WQ_{45} 3 20.3 225°.83 1°.2/21.8 17

2 11	12 19.66	− 7 14.0	2.469	3.232	12.7	21.7
2 21	12 16.44	− 6 43.7	2.371	3.230	10.2	21.5
3 2	12 11.51	− 5 58.2	2.296	3.227	7.1	21.3
3 12	12 5.32	− 5 0.1	2.247	3.225	3.8	21.1
3 22	11 58.49	− 3 53.6	2.227	3.222	1.2	20.8
4 1	11 51.73	− 2 44.0	2.237	3.219	3.9	21.0
4 11	11 45.77	− 1 37.2	2.275	3.216	7.3	21.3
4 21	11 41.16	− 0 38.2	2.340	3.213	10.4	21.4

204234 2004 DZ_{17} 3 20.3 62°.48 2°.5/17.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.87	+ 3 45.4	2.055	2.864	13.4	20.0
2 21	12 17.58	+ 4 45.6	1.984	2.876	10.2	19.8
3 2	12 12.33	+ 5 55.5	1.936	2.888	6.7	19.6
3 12	12 5.70	+ 7 9.1	1.916	2.900	3.4	19.5
3 22	11 58.43	+ 8 19.5	1.924	2.912	3.1	19.5
4 1	11 51.39	+ 9 20.0	1.960	2.924	6.3	19.7
4 11	11 45.39	+10 5.8	2.023	2.936	9.7	19.9
4 21	11 41.00	+10 34.2	2.109	2.948	12.7	20.1

56211 1999 GG_{43} 3 20.3 100°.36 6°.6/13.4 18

2 11	12 26.86	+15 57.8	1.926	2.746	13.7	18.8
2 21	12 22.30	+17 22.6	1.874	2.765	10.8	18.7
3 2	12 15.50	+18 46.8	1.846	2.784	8.1	18.5
3 12	12 7.14	+20 1.6	1.844	2.802	6.7	18.5
3 22	11 58.16	+20 59.0	1.870	2.820	7.5	18.6
4 1	11 49.56	+21 33.8	1.923	2.838	9.9	18.7
4 11	11 42.29	+21 43.9	2.000	2.855	12.5	18.9
4 21	11 36.94	+21 30.8	2.097	2.872	15.0	19.1

236109 2005 QG_{113} 3 20.3 105°.78 2°.0/18.7 18

2 11	12 27.26	+ 0 46.7	1.458	2.269	17.8	21.0
2 21	12 23.34	+ 1 37.7	1.391	2.283	13.8	20.8
3 2	12 16.59	+ 2 44.8	1.345	2.296	9.1	20.6
3 12	12 7.78	+ 4 0.8	1.323	2.309	4.1	20.3
3 22	11 58.02	+ 5 16.7	1.328	2.321	2.7	20.2
4 1	11 48.64	+ 6 22.9	1.360	2.333	7.3	20.5
4 11	11 40.86	+ 7 12.1	1.417	2.345	11.9	20.8
4 21	11 35.47	+ 7 40.6	1.496	2.357	15.9	21.1

117075 2004 KP_{15} 3 20.3 260°.86 0°.6/19.5 18

2 11	12 19.69	− 1 36.2	2.647	3.429	11.5	20.5
2 21	12 16.42	− 0 47.6	2.536	3.411	9.0	20.3
3 2	12 11.50	+ 0 13.3	2.450	3.394	6.0	20.1
3 12	12 5.34	+ 1 23.0	2.392	3.376	2.7	19.8
3 22	11 58.51	+ 2 36.6	2.363	3.358	1.1	19.7
4 1	11 51.66	+ 3 48.6	2.365	3.340	4.5	19.9
4 11	11 45.51	+ 4 53.4	2.396	3.321	7.8	20.1
4 21	11 40.59	+ 5 47.0	2.452	3.303	10.8	20.2

500684 2012 VH_{81} 3 20.3 166°.29 0°.6/19.6 17

2 11	12 19.89	− 1 37.5	2.552	3.335	11.8	21.7
2 21	12 16.51	− 0 49.7	2.461	3.337	9.2	21.5
3 2	12 11.50	+ 0 9.9	2.395	3.339	6.1	21.3
3 12	12 5.31	+ 1 17.3	2.356	3.340	2.7	21.1
3 22	11 58.53	+ 2 27.5	2.347	3.342	1.1	20.9
4 1	11 51.86	+ 3 35.1	2.368	3.343	4.4	21.2
4 11	11 45.97	+ 4 34.8	2.417	3.344	7.7	21.4
4 21	11 41.38	+ 5 22.9	2.492	3.345	10.6	21.6

44619 1999 RO_{42} 3 20.3 245°.39 3°.4/17.3 18

2 11	12 27.49	+ 4 19.6	1.659	2.470	16.0	19.8
2 21	12 23.65	+ 5 22.0	1.560	2.452	12.5	19.6
3 2	12 17.02	+ 6 38.9	1.483	2.434	8.4	19.3
3 12	12 8.15	+ 8 3.3	1.432	2.415	4.4	19.0
3 22	11 57.95	+ 9 25.9	1.408	2.395	4.2	18.9
4 1	11 47.68	+10 36.9	1.412	2.375	8.4	19.1
4 11	11 38.64	+11 28.4	1.442	2.354	13.0	19.3
4 21	11 31.81	+11 56.4	1.493	2.331	17.1	19.5

355889 2008 WK_{43} 3 20.4 313°.98 5°.1/16.6 18

2 11	12 27.58	+ 9 6.2	1.382	2.213	17.5	20.7
2 21	12 24.01	+ 9 53.4	1.307	2.209	13.7	20.5
3 2	12 17.33	+10 48.6	1.252	2.204	9.4	20.2
3 12	12 8.26	+11 43.0	1.220	2.200	5.7	20.0
3 22	11 57.96	+12 27.0	1.215	2.197	5.9	20.0
4 1	11 47.89	+12 52.0	1.234	2.193	9.8	20.2
4 11	11 39.46	+12 53.5	1.277	2.189	14.2	20.4
4 21	11 33.63	+12 31.0	1.340	2.186	18.2	20.7

15770 1993 FL_{29} 3 20.4 166°.01 1°.4/22.1 18 R

2 11	12 22.20	− 7 11.3	2.870	3.619	11.4	19.3
2 21	12 18.11	− 6 58.2	2.773	3.623	9.2	19.1
3 2	12 12.48	− 6 33.1	2.700	3.626	6.5	18.9
3 12	12 5.75	− 5 57.8	2.655	3.630	3.5	18.8
3 22	11 58.47	− 5 15.2	2.639	3.633	1.4	18.6
4 1	11 51.28	− 4 29.2	2.654	3.635	3.5	18.8
4 11	11 44.81	− 3 44.1	2.698	3.637	6.4	18.9
4 21	11 39.55	− 3 3.8	2.769	3.639	9.1	19.1

467776 2009 VF_{113} 3 20.4 138°.28 4°.5/15.4 17

2 11	12 26.27	+11 44.9	2.212	3.021	12.5	21.9
2 21	12 21.64	+12 42.0	2.141	3.030	9.7	21.7
3 2	12 15.00	+13 41.9	2.095	3.040	6.8	21.5
3 12	12 6.94	+14 38.1	2.077	3.048	4.7	21.4
3 22	11 58.25	+15 24.3	2.087	3.057	5.2	21.5
4 1	11 49.80	+15 55.4	2.126	3.065	7.7	21.6
4 11	11 42.44	+16 8.7	2.191	3.072	10.5	21.8
4 21	11 36.75	+16 3.6	2.279	3.079	13.2	22.0

251749 1998 XR_{49} 3 20.4 71°.27 5°.9/25.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 30.35	−16 1.5	1.705	2.431	18.9	20.3
2 21	12 25.39	−16 43.6	1.640	2.461	15.8	20.1
3 2	12 17.79	−17 2.3	1.595	2.490	12.2	19.9
3 12	12 8.30	−16 56.4	1.572	2.519	8.7	19.8
3 22	11 58.00	−16 27.7	1.575	2.548	6.2	19.7
4 1	11 48.11	−15 41.4	1.605	2.576	6.6	19.8
4 11	11 39.74	−14 45.5	1.662	2.605	9.4	20.0
4 21	11 33.65	−13 48.3	1.743	2.632	12.5	20.3

66250 1999 GZ 3 20.4 354°.34 3°.0/18.5 18

2 11	12 29.09	+ 7 6.3	1.464	2.285	17.2	18.3
2 21	12 24.99	+ 7 6.3	1.385	2.282	13.5	18.1
3 2	12 17.89	+ 7 12.2	1.327	2.279	9.1	17.8
3 12	12 8.51	+ 7 18.5	1.293	2.277	4.6	17.5
3 22	11 57.96	+ 7 19.3	1.284	2.275	3.6	17.5
4 1	11 47.65	+ 7 9.3	1.303	2.275	7.8	17.7
4 11	11 38.93	+ 6 45.2	1.346	2.275	12.4	18.0
4 21	11 32.72	+ 6 6.3	1.411	2.275	16.4	18.2

275048 2009 UA_{87} 3 20.4 213°.18 0°.5/20.9 17

2 11	12 24.35	− 4 44.4	2.460	3.224	12.7	22.2
2 21	12 20.15	− 4 16.0	2.354	3.216	10.1	22.0
3 2	12 14.07	− 3 34.0	2.272	3.207	7.0	21.8
3 12	12 6.59	− 2 40.9	2.217	3.197	3.4	21.6
3 22	11 58.34	− 1 40.9	2.191	3.187	0.7	21.3
4 1	11 50.12	− 0 39.3	2.196	3.176	4.2	21.6
4 11	11 42.71	+ 0 18.3	2.229	3.164	7.8	21.8
4 21	11 36.74	+ 1 7.1	2.289	3.151	11.0	22.0

465408 2008 JM_{10} 3 20.4 263°.56 1°.1/19.3 17

2 11	12 22.77	− 0 55.4	1.961	2.756	14.4	22.3
2 21	12 19.49	− 0 8.4	1.856	2.738	11.4	22.0
3 2	12 13.95	+ 0 54.3	1.773	2.720	7.6	21.8
3 12	12 6.64	+ 2 8.4	1.716	2.701	3.5	21.5
3 22	11 58.32	+ 3 27.3	1.688	2.683	1.7	21.3
4 1	11 49.96	+ 4 43.1	1.689	2.663	5.9	21.5
4 11	11 42.56	+ 5 48.5	1.716	2.644	10.2	21.7
4 21	11 36.92	+ 6 38.0	1.767	2.624	14.0	21.9

27907 1996 TU_{9} 3 20.4 172°.05 0°.3/20.8 18

2 11	12 20.85	− 4 34.4	2.816	3.580	11.3	20.4
2 21	12 17.11	− 3 56.2	2.721	3.583	8.9	20.2
3 2	12 11.84	− 3 6.1	2.650	3.586	6.0	20.1
3 12	12 5.48	− 2 6.8	2.606	3.588	2.9	19.9
3 22	11 58.58	− 1 2.5	2.593	3.589	0.5	19.6
4 1	11 51.77	+ 0 2.1	2.611	3.591	3.7	19.9
4 11	11 45.68	+ 1 2.0	2.658	3.591	6.8	20.1
4 21	11 40.79	+ 1 53.6	2.732	3.592	9.5	20.3

2026 Cottrell 3 20.4 12°.09 1°.6/21.5 18 R

2 11	12 23.37	− 5 5.6	1.361	2.167	19.1	16.3
2 21	12 20.71	− 5 9.8	1.285	2.168	15.3	16.1
3 2	12 15.11	− 4 54.0	1.227	2.170	10.7	15.8
3 12	12 7.25	− 4 20.7	1.192	2.173	5.6	15.5
3 22	11 58.22	− 3 35.4	1.182	2.177	1.6	15.3
4 1	11 49.40	− 2 45.9	1.197	2.182	6.0	15.6
4 11	11 42.13	− 2 0.8	1.236	2.187	11.1	15.8
4 21	11 37.31	− 1 26.9	1.297	2.192	15.6	16.1

278786 2008 SF_{190} 3 20.4 44°.44 0°.1/20.5 18

2 11	12 27.50	− 1 39.9	1.294	2.106	19.5	20.6
2 21	12 24.01	− 1 38.7	1.223	2.112	15.4	20.3
3 2	12 17.35	− 1 20.3	1.171	2.119	10.5	20.0
3 12	12 8.28	− 0 48.6	1.142	2.126	4.9	19.7
3 22	11 58.03	− 0 10.0	1.138	2.134	0.9	19.5
4 1	11 48.10	+ 0 27.5	1.159	2.142	6.7	19.9
4 11	11 39.91	+ 0 56.1	1.205	2.150	11.9	20.2
4 21	11 34.40	+ 1 10.9	1.272	2.158	16.4	20.5

114739 2003 HR_{12} 3 20.4 55°.30 0°.2/20.6 17

2 11	12 18.60	− 5 6.8	2.327	3.105	13.0	19.6
2 21	12 15.69	− 4 15.6	2.240	3.110	10.2	19.4
3 2	12 11.04	− 3 9.2	2.176	3.116	6.9	19.2
3 12	12 5.15	− 1 51.3	2.139	3.122	3.3	18.9
3 22	11 58.65	− 0 27.4	2.132	3.128	0.6	18.7
4 1	11 52.29	+ 0 55.8	2.154	3.134	4.3	19.0
4 11	11 46.79	+ 2 11.9	2.204	3.140	7.8	19.3
4 21	11 42.67	+ 3 16.2	2.280	3.146	10.9	19.5

210832 2001 PG_{5} 3 20.4 108°.05 1°.2/21.8 18

2 11	12 26.80	− 5 23.4	2.814	3.562	11.7	20.7
2 21	12 21.54	− 5 24.5	2.736	3.586	9.2	20.6
3 2	12 14.69	− 5 15.1	2.682	3.609	6.4	20.4
3 12	12 6.76	− 4 57.2	2.656	3.632	3.4	20.3
3 22	11 58.35	− 4 33.4	2.660	3.654	1.2	20.1
4 1	11 50.15	− 4 6.9	2.695	3.676	3.5	20.3
4 11	11 42.81	− 3 41.5	2.760	3.697	6.4	20.5
4 21	11 36.80	− 3 20.3	2.852	3.717	9.0	20.7

59171 1999 AP_2 3 20.4 218°.91 1°.4/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 28.45	+ 1 35.6	1.522	2.330	17.3	18.8
2 21	12 24.42	+ 1 52.7	1.439	2.328	13.6	18.5
3 2	12 17.49	+ 2 23.0	1.377	2.327	9.1	18.2
3 12	12 8.34	+ 3 1.5	1.339	2.325	4.2	17.9
3 22	11 58.02	+ 3 41.5	1.328	2.323	2.0	17.8
4 1	11 47.87	+ 4 15.8	1.344	2.321	6.9	18.1
4 11	11 39.20	+ 4 37.9	1.385	2.318	11.7	18.3
4 21	11 32.92	+ 4 44.4	1.448	2.316	15.9	18.6

160502 2007 FY_{27} 3 20.4 110°.71 0°.3/19.9 18

2 11	12 21.48	− 4 33.8	1.951	2.736	14.9	20.7
2 21	12 18.23	− 3 27.0	1.871	2.746	11.6	20.5
3 2	12 12.90	− 2 1.9	1.813	2.756	7.8	20.2
3 12	12 6.05	− 0 23.7	1.782	2.766	3.6	20.0
3 22	11 58.49	+ 1 19.9	1.779	2.775	1.0	19.8
4 1	11 51.12	+ 3 0.3	1.806	2.784	5.3	20.1
4 11	11 44.84	+ 4 29.2	1.861	2.793	9.3	20.4
4 21	11 40.27	+ 5 41.3	1.940	2.801	12.8	20.6

250208 2002 VO_{27} 3 20.4 100°.56 1°.9/22.3 18

2 11	12 26.69	− 8 11.9	1.938	2.699	15.8	21.1
2 21	12 22.19	− 7 56.3	1.866	2.721	12.6	20.9
3 2	12 15.49	− 7 22.9	1.815	2.743	8.9	20.7
3 12	12 7.23	− 6 34.1	1.789	2.764	4.9	20.5
3 22	11 58.27	− 5 34.9	1.792	2.785	1.9	20.3
4 1	11 49.63	− 4 31.6	1.823	2.806	4.6	20.5
4 11	11 42.22	− 3 31.2	1.882	2.825	8.4	20.8
4 21	11 36.67	− 2 39.4	1.967	2.845	11.9	21.1

413138 2001 YV_{90} 3 20.4 137°.74 5°.2/13.8 18

2 11	12 26.16	+14 33.4	2.434	3.241	11.6	21.7
2 21	12 21.37	+15 51.5	2.371	3.257	9.1	21.5
3 2	12 14.74	+17 10.5	2.334	3.271	6.7	21.4
3 12	12 6.83	+18 23.3	2.325	3.285	5.3	21.3
3 22	11 58.36	+19 23.6	2.345	3.298	6.0	21.4
4 1	11 50.14	+20 6.6	2.394	3.311	8.1	21.6
4 11	11 42.92	+20 29.8	2.469	3.323	10.5	21.7
4 21	11 37.25	+20 33.4	2.566	3.334	12.7	21.9

463173 2012 BN_{76} 3 20.4 297°.57 8°.0/25.3 17

2 11	12 28.48	−16 10.5	1.634	2.367	19.3	20.8
2 21	12 24.87	−17 31.4	1.526	2.348	16.7	20.6
3 2	12 18.20	−18 34.1	1.435	2.328	13.6	20.3
3 12	12 8.91	−19 14.0	1.367	2.308	10.3	20.1
3 22	11 57.89	−19 28.1	1.323	2.288	8.1	19.9
4 1	11 46.49	−19 16.9	1.304	2.269	8.7	19.8
4 11	11 36.25	−18 45.8	1.310	2.250	11.7	20.0
4 21	11 28.39	−18 3.6	1.339	2.231	15.4	20.1

99688 2002 JR_{24} 3 20.4 269°.70 3°.7/16.7 18

2 11	12 24.01	+ 7 47.3	1.961	2.775	13.7	19.8
2 21	12 20.26	+ 8 36.9	1.881	2.775	10.6	19.6
3 2	12 14.30	+ 9 33.4	1.824	2.774	7.2	19.3
3 12	12 6.74	+10 30.4	1.794	2.774	4.2	19.2
3 22	11 58.37	+11 21.0	1.791	2.773	4.3	19.2
4 1	11 50.19	+11 59.1	1.817	2.773	7.4	19.3
4 11	11 43.11	+12 20.3	1.868	2.773	10.9	19.6
4 21	11 37.83	+12 23.1	1.942	2.772	14.0	19.8

64971 2002 AC_6 3 20.4 118°.57 0°.8/21.1 16

2 11	12 24.31	− 4 50.7	2.013	2.790	14.8	21.0
2 21	12 20.38	− 4 29.8	1.930	2.799	11.7	20.8
3 2	12 14.33	− 3 53.6	1.870	2.807	8.0	20.6
3 12	12 6.73	− 3 5.2	1.835	2.816	4.0	20.3
3 22	11 58.38	− 2 9.5	1.828	2.824	0.8	20.1
4 1	11 50.22	− 1 12.7	1.851	2.832	4.7	20.4
4 11	11 43.15	− 0 21.0	1.901	2.840	8.6	20.7
4 21	11 37.82	+ 0 20.7	1.975	2.848	12.1	20.9

37501 2130 T-$_2$ 3 20.4 217°.12 1°.2/19.2 18

2 11	12 26.77	+ 2 13.0	2.217	3.006	13.2	19.3
2 21	12 22.20	+ 2 31.2	2.121	3.000	10.3	19.1
3 2	12 15.54	+ 2 58.4	2.048	2.994	6.9	18.9
3 12	12 7.32	+ 3 30.7	2.003	2.987	3.2	18.6
3 22	11 58.27	+ 4 3.7	1.986	2.980	1.7	18.5
4 1	11 49.30	+ 4 32.3	2.000	2.973	5.3	18.7
4 11	11 41.30	+ 4 52.3	2.041	2.965	9.0	18.9
4 21	11 34.95	+ 5 1.0	2.107	2.957	12.3	19.1

367505 2009 KK_1 3 20.4 278°.39 10°.5/31.6 17

2 11	12 21.84	−30 18.9	1.859	2.503	20.0	21.4
2 21	12 19.43	−30 53.9	1.743	2.483	18.2	21.2
3 2	12 14.33	−30 57.7	1.642	2.462	15.9	21.0
3 12	12 7.00	−30 24.5	1.560	2.442	13.5	20.8
3 22	11 58.30	−29 11.2	1.499	2.421	11.4	20.6
4 1	11 49.43	−27 19.5	1.461	2.400	10.5	20.5
4 11	11 41.70	−24 57.8	1.449	2.378	11.6	20.5
4 21	11 36.14	−22 19.0	1.462	2.357	14.1	20.6

505029 2011 QK_{63} 3 20.4 162°.94 4°.0/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 28.70	−13 21.1	2.743	3.449	12.9	21.7
2 21	12 23.34	−14 3.4	2.641	3.452	10.7	21.6
3 2	12 16.14	−14 32.8	2.562	3.455	8.3	21.4
3 12	12 7.56	−14 48.6	2.509	3.457	5.8	21.3
3 22	11 58.23	−14 51.1	2.485	3.460	4.1	21.1
4 1	11 48.93	−14 42.2	2.492	3.462	4.7	21.2
4 11	11 40.43	−14 25.7	2.528	3.463	7.0	21.3
4 21	11 33.34	−14 5.6	2.591	3.465	9.5	21.5

78639 2002 TQ_{37} 3 20.4 173°.72 0°.1/20.6 17

2 11	12 22.57	− 3 2.4	2.548	3.320	12.1	21.7
2 21	12 18.62	− 2 36.4	2.455	3.322	9.5	21.5
3 2	12 12.96	− 1 58.8	2.385	3.324	6.5	21.3
3 12	12 6.06	− 1 12.6	2.343	3.325	3.1	21.1
3 22	11 58.54	− 0 21.9	2.330	3.326	0.5	20.9
4 1	11 51.12	+ 0 28.7	2.348	3.327	4.1	21.1
4 11	11 44.51	+ 1 14.2	2.394	3.327	7.4	21.3
4 21	11 39.26	+ 1 51.0	2.466	3.327	10.4	21.5

28266 1999 CP_5 3 20.4 187°.02 1°.1/19.4 18

2 11	12 27.83	+ 1 39.0	2.146	2.932	13.6	18.9
2 21	12 23.05	+ 1 55.7	2.054	2.932	10.6	18.7
3 2	12 16.11	+ 2 21.9	1.987	2.931	7.1	18.4
3 12	12 7.58	+ 2 53.7	1.946	2.930	3.2	18.2
3 22	11 58.24	+ 3 26.6	1.934	2.929	1.5	18.1
4 1	11 49.02	+ 3 55.5	1.952	2.927	5.3	18.3
4 11	11 40.85	+ 4 16.0	1.998	2.924	9.1	18.5
4 21	11 34.40	+ 4 25.3	2.069	2.921	12.4	18.7

520195 2014 DW_{149} 3 20.4 86°.77 5°.7/26.3 17

2 11	12 26.08	−17 55.9	2.401	3.096	14.8	21.8
2 21	12 21.63	−18 43.1	2.307	3.103	12.6	21.6
3 2	12 15.14	−19 13.1	2.234	3.109	10.1	21.5
3 12	12 7.14	−19 24.3	2.185	3.116	7.6	21.3
3 22	11 58.33	−19 16.9	2.163	3.123	5.9	21.2
4 1	11 49.58	−18 53.2	2.168	3.129	6.0	21.2
4 11	11 41.76	−18 17.9	2.202	3.136	7.9	21.4
4 21	11 35.53	−17 36.7	2.261	3.142	10.4	21.5

2905 Plaskett 3 20.4 315°.13 1°.0/19.5 18

2 11	12 25.83	+ 1 53.5	1.854	2.654	14.9	16.3
2 21	12 21.91	+ 1 58.9	1.761	2.646	11.7	16.1
3 2	12 15.59	+ 2 14.3	1.690	2.638	7.9	15.8
3 12	12 7.43	+ 2 35.9	1.645	2.630	3.6	15.5
3 22	11 58.27	+ 2 58.9	1.627	2.622	1.5	15.4
4 1	11 49.20	+ 3 18.0	1.638	2.615	5.8	15.6
4 11	11 41.26	+ 3 28.6	1.675	2.608	10.0	15.8
4 21	11 35.25	+ 3 27.5	1.735	2.601	13.8	16.1

343086 2009 DZ_{16} 3 20.4 52°.98 1°.2/21.5 17

2 11	12 25.92	− 3 59.7	2.103	2.876	14.3	20.3
2 21	12 21.54	− 4 12.3	2.020	2.885	11.4	20.1
3 2	12 15.07	− 4 12.8	1.959	2.895	7.9	19.9
3 12	12 7.08	− 4 3.2	1.925	2.904	4.1	19.7
3 22	11 58.36	− 3 46.6	1.919	2.914	1.2	19.5
4 1	11 49.83	− 3 26.8	1.942	2.924	4.4	19.8
4 11	11 42.36	− 3 8.7	1.993	2.934	8.1	20.0
4 21	11 36.60	− 2 55.9	2.068	2.944	11.5	20.2

122023 2000 GC_{48} 3 20.4 20°.17 0°.1/20.5 18

2 11	12 23.53	− 3 13.8	1.261	2.078	19.7	20.2
2 21	12 21.05	− 2 52.0	1.188	2.080	15.6	19.9
3 2	12 15.46	− 2 8.6	1.133	2.083	10.6	19.6
3 12	12 7.48	− 1 8.4	1.101	2.086	5.0	19.3
3 22	11 58.27	+ 0 0.6	1.093	2.090	0.9	19.0
4 1	11 49.32	+ 1 8.3	1.111	2.094	6.8	19.4
4 11	11 42.02	+ 2 4.6	1.152	2.098	12.2	19.7
4 21	11 37.33	+ 2 43.0	1.214	2.103	16.9	20.0

408656 2014 ML_{20} 3 20.4 233°.35 2°.6/17.9 17

2 11	12 26.40	+ 2 40.7	1.766	2.570	15.4	22.2
2 21	12 22.57	+ 3 37.8	1.670	2.558	12.0	22.0
3 2	12 16.18	+ 4 49.4	1.596	2.546	8.0	21.7
3 12	12 7.76	+ 6 9.2	1.548	2.532	3.9	21.4
3 22	11 58.21	+ 7 29.0	1.528	2.518	3.3	21.3
4 1	11 48.67	+ 8 39.8	1.537	2.503	7.4	21.6
4 11	11 40.29	+ 9 34.3	1.571	2.488	11.7	21.8
4 21	11 33.96	+10 8.3	1.628	2.472	15.6	22.0

373402 1995 TD_{11} 3 20.4 109°.31 0°.9/19.5 18

2 11	12 26.26	+ 0 40.5	2.123	2.911	13.7	21.8
2 21	12 21.70	+ 1 4.5	2.048	2.926	10.6	21.7
3 2	12 15.10	+ 1 38.7	1.996	2.941	7.1	21.5
3 12	12 7.07	+ 2 19.1	1.971	2.955	3.2	21.2
3 22	11 58.38	+ 3 0.7	1.974	2.969	1.4	21.1
4 1	11 49.95	+ 3 38.2	2.007	2.983	5.1	21.4
4 11	11 42.61	+ 4 7.1	2.068	2.996	8.7	21.7
4 21	11 36.96	+ 4 24.4	2.154	3.009	11.9	21.9

49092 1998 RK_{71} 3 20.4 47°.16 2°.7/18.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 28.95	+ 4 9.8	1.305	2.128	18.8	18.5
2 21	12 25.14	+ 4 30.9	1.235	2.133	14.6	18.2
3 2	12 18.12	+ 5 3.8	1.185	2.138	9.8	18.0
3 12	12 8.68	+ 5 41.8	1.158	2.143	4.7	17.7
3 22	11 58.06	+ 6 17.0	1.157	2.149	3.3	17.6
4 1	11 47.79	+ 6 41.5	1.181	2.155	8.1	17.9
4 11	11 39.30	+ 6 49.5	1.229	2.161	13.0	18.2
4 21	11 33.52	+ 6 39.0	1.298	2.167	17.3	18.5

109432 2001 QA_{196} 3 20.4 196°.16 5°.3/26.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.61	−19 9.1	2.365	3.057	15.0	20.3
2 21	12 20.57	−19 17.7	2.259	3.054	12.8	20.2
3 2	12 14.49	−19 5.4	2.173	3.051	10.3	20.0
3 12	12 6.87	−18 31.4	2.111	3.047	7.5	19.8
3 22	11 58.41	−17 36.9	2.076	3.043	5.5	19.6
4 1	11 49.97	−16 25.9	2.070	3.038	5.7	19.6
4 11	11 42.44	−15 5.0	2.091	3.032	7.9	19.8
4 21	11 36.50	−13 41.6	2.139	3.025	10.7	19.9

41253 1999 XP_{43} 3 20.4 142°.67 1°.0/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.89	+ 1 7.2	2.232	3.021	13.1	19.4
2 21	12 20.62	+ 1 33.8	2.148	3.027	10.2	19.2
3 2	12 14.40	+ 2 10.3	2.087	3.033	6.8	19.0
3 12	12 6.76	+ 2 52.7	2.054	3.038	3.1	18.8
3 22	11 58.44	+ 3 36.1	2.049	3.044	1.5	18.7
4 1	11 50.29	+ 4 15.4	2.075	3.049	5.1	18.9
4 11	11 43.12	+ 4 45.9	2.128	3.054	8.6	19.2
4 21	11 37.55	+ 5 4.7	2.205	3.058	11.8	19.4

129472 1993 PS_{5} 3 20.4 139°.54 1°.1/18.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.33	+ 0 7.7	2.646	3.428	11.5	20.8
2 21	12 18.29	+ 1 3.6	2.564	3.440	8.8	20.6
3 2	12 12.66	+ 2 9.7	2.508	3.452	5.8	20.4
3 12	12 5.90	+ 3 21.6	2.480	3.464	2.6	20.3
3 22	11 58.62	+ 4 34.0	2.482	3.475	1.6	20.2
4 1	11 51.50	+ 5 41.6	2.515	3.486	4.6	20.4
4 11	11 45.19	+ 6 39.6	2.577	3.496	7.7	20.6
4 21	11 40.19	+ 7 25.0	2.665	3.505	10.4	20.8

458981 2011 WJ_{70} 3 20.4 131°.94 0°.9/19.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.15	− 0 5.0	1.931	2.717	15.0	22.3
2 21	12 24.15	+ 0 28.0	1.856	2.733	11.6	22.1
3 2	12 16.85	+ 1 13.4	1.804	2.748	7.7	21.9
3 12	12 7.92	+ 2 6.5	1.779	2.763	3.5	21.7
3 22	11 58.24	+ 3 1.3	1.782	2.777	1.5	21.6
4 1	11 48.84	+ 3 51.4	1.815	2.790	5.6	21.9
4 11	11 40.71	+ 4 31.1	1.875	2.802	9.5	22.1
4 21	11 34.51	+ 4 57.1	1.960	2.813	13.0	22.4

330909 2009 SC_{75} 3 20.4 211°.35 1°.9/18.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.54	+ 2 47.8	2.165	2.961	13.2	22.4
2 21	12 20.53	+ 3 32.5	2.072	2.956	10.3	22.2
3 2	12 14.46	+ 4 27.7	2.002	2.951	6.8	22.0
3 12	12 6.85	+ 5 28.3	1.960	2.944	3.2	21.7
3 22	11 58.43	+ 6 28.6	1.947	2.938	2.5	21.7
4 1	11 50.09	+ 7 22.0	1.963	2.931	5.9	21.9
4 11	11 42.72	+ 8 3.5	2.006	2.923	9.6	22.1
4 21	11 36.98	+ 8 29.8	2.073	2.915	12.8	22.3

129607 1997 WE_{58} 3 20.4 134°.71 0°.8/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.89	− 1 24.0	1.884	2.670	15.3	21.3
2 21	12 23.25	− 0 42.5	1.808	2.685	11.9	21.1
3 2	12 16.30	+ 0 13.3	1.755	2.699	8.0	20.8
3 12	12 7.69	+ 1 18.7	1.728	2.712	3.6	20.6
3 22	11 58.30	+ 2 26.9	1.729	2.724	1.3	20.4
4 1	11 49.18	+ 3 30.7	1.760	2.736	5.6	20.8
4 11	11 41.31	+ 4 23.6	1.818	2.747	9.7	21.0
4 21	11 35.38	+ 5 1.7	1.901	2.757	13.2	21.3

370028 2000 QO_{52} 3 20.4 171°.75 2°.2/22.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.72	− 8 34.1	2.612	3.348	12.8	22.0
2 21	12 22.61	− 8 40.6	2.513	3.353	10.3	21.8
3 2	12 15.67	− 8 34.0	2.438	3.356	7.5	21.6
3 12	12 7.37	− 8 15.6	2.390	3.359	4.4	21.4
3 22	11 58.38	− 7 47.5	2.371	3.361	2.2	21.3
4 1	11 49.47	− 7 13.4	2.383	3.363	3.9	21.4
4 11	11 41.41	− 6 37.7	2.424	3.364	7.0	21.6
4 21	11 34.80	− 6 4.7	2.493	3.364	9.9	21.8

407293 2010 JH_{38} 3 20.4 299°.87 0°.3/20.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.72	− 1 28.1	1.374	2.183	18.7	20.9
2 21	12 23.83	− 1 36.5	1.270	2.158	15.1	20.6
3 2	12 17.69	− 1 29.3	1.185	2.133	10.5	20.3
3 12	12 8.77	− 1 8.8	1.123	2.108	5.1	19.9
3 22	11 58.05	− 0 39.7	1.086	2.083	0.9	19.5
4 1	11 47.04	− 0 8.9	1.075	2.058	7.0	19.8
4 11	11 37.36	+ 0 15.3	1.087	2.033	12.8	20.1
4 21	11 30.29	+ 0 26.9	1.120	2.009	18.0	20.3

389901 2012 TP_{32} 3 20.4 100°.43 1°.9/18.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.74	+ 4 42.0	2.301	3.096	12.6	21.7
2 21	12 21.20	+ 5 0.9	2.220	3.104	9.7	21.5
3 2	12 14.74	+ 5 26.3	2.164	3.111	6.4	21.3
3 12	12 6.92	+ 5 54.0	2.135	3.119	3.1	21.1
3 22	11 58.47	+ 6 19.7	2.135	3.126	2.3	21.1
4 1	11 50.22	+ 6 39.0	2.164	3.133	5.4	21.3
4 11	11 42.95	+ 6 48.7	2.222	3.140	8.7	21.5
4 21	11 37.26	+ 6 46.8	2.304	3.148	11.6	21.7

354767 2005 UE_{81} 3 20.4 146°.37 1°.6/21.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.60	− 6 3.2	1.741	2.511	17.0	22.0
2 21	12 25.68	− 6 1.7	1.659	2.521	13.6	21.8
3 2	12 18.14	− 5 42.8	1.598	2.530	9.5	21.6
3 12	12 8.63	− 5 8.9	1.561	2.539	5.1	21.3
3 22	11 58.14	− 4 24.3	1.552	2.547	1.7	21.1
4 1	11 47.88	− 3 35.4	1.572	2.554	5.3	21.4
4 11	11 38.99	− 2 49.3	1.619	2.561	9.7	21.6
4 21	11 32.28	− 2 11.8	1.691	2.567	13.6	21.9

275077 2009 UM_{145} 3 20.4 224°.94 4°.3/24.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.37	−12 44.2	2.135	2.866	15.4	21.3
2 21	12 22.96	−13 13.1	2.030	2.859	12.9	21.1
3 2	12 16.27	−13 25.1	1.946	2.851	9.8	20.9
3 12	12 7.79	−13 19.4	1.886	2.843	6.6	20.6
3 22	11 58.29	−12 57.3	1.854	2.835	4.4	20.5
4 1	11 48.76	−12 22.0	1.850	2.826	5.4	20.5
4 11	11 40.19	−11 39.4	1.874	2.817	8.5	20.7
4 21	11 33.40	−10 55.5	1.924	2.808	11.8	20.9

497767 2006 SG_{313} 3 20.4 100°.75 2°.3/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.75	+ 6 8.7	2.451	3.248	11.8	21.8
2 21	12 20.28	+ 6 35.7	2.374	3.259	9.1	21.7
3 2	12 14.05	+ 7 7.9	2.322	3.270	6.0	21.5
3 12	12 6.59	+ 7 41.2	2.298	3.280	3.1	21.3
3 22	11 58.56	+ 8 11.1	2.303	3.291	2.7	21.3
4 1	11 50.73	+ 8 33.4	2.337	3.301	5.5	21.5
4 11	11 43.84	+ 8 45.1	2.400	3.311	8.5	21.7
4 21	11 38.41	+ 8 44.7	2.487	3.321	11.2	21.9

163219 2002 EM_{78} 3 20.4 60°.79 0°.3/20.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.60	− 2 51.4	1.380	2.189	18.7	20.7
2 21	12 21.50	− 2 17.4	1.312	2.201	14.7	20.4
3 2	12 15.53	− 1 23.6	1.265	2.213	9.9	20.2
3 12	12 7.46	− 0 15.4	1.241	2.226	4.5	19.9
3 22	11 58.39	+ 0 58.7	1.242	2.238	1.1	19.7
4 1	11 49.68	+ 2 9.1	1.270	2.251	6.5	20.1
4 11	11 42.56	+ 3 6.8	1.323	2.264	11.4	20.4
4 21	11 37.84	+ 3 46.5	1.398	2.277	15.6	20.7

272747 2005 YK_{131} 3 20.4 334°.82 13°.9/28.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.04	+32 19.6	1.630	2.458	15.4	19.2
2 21	12 18.25	+35 31.7	1.588	2.449	14.2	19.1
3 2	12 13.58	+38 30.1	1.570	2.441	13.9	19.0
3 12	12 6.65	+40 59.2	1.576	2.433	14.8	19.0
3 22	11 58.52	+42 47.5	1.604	2.426	16.4	19.1
4 1	11 50.56	+43 49.2	1.650	2.420	18.4	19.3
4 11	11 44.09	+44 5.1	1.712	2.414	20.3	19.4
4 21	11 40.04	+43 40.4	1.786	2.408	21.9	19.5

272961 2006 CZ_{30} 3 20.4 10°.03 1°.5/18.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.29	− 1 6.5	1.533	2.352	16.7	20.6
2 21	12 16.39	− 0 6.6	1.458	2.354	13.0	20.3
3 2	12 12.02	+ 1 12.1	1.403	2.356	8.6	20.1
3 12	12 5.82	+ 2 42.9	1.373	2.359	3.9	19.8
3 22	11 58.70	+ 4 16.6	1.369	2.363	2.2	19.7
4 1	11 51.78	+ 5 43.0	1.392	2.368	6.8	20.0
4 11	11 46.14	+ 6 53.4	1.440	2.374	11.3	20.3
4 21	11 42.52	+ 7 42.6	1.510	2.380	15.2	20.5

258125 2001 QB_{328} 3 20.4 93°.92 6°.3/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.71	−19 42.9	2.069	2.761	16.9	20.8
2 21	12 23.84	−20 18.4	1.994	2.786	14.4	20.6
3 2	12 16.69	−20 31.6	1.938	2.810	11.6	20.5
3 12	12 7.88	−20 21.0	1.905	2.834	8.7	20.4
3 22	11 58.32	−19 47.9	1.898	2.858	6.6	20.3
4 1	11 49.01	−18 56.4	1.919	2.881	6.6	20.3
4 11	11 40.94	−17 53.4	1.967	2.903	8.6	20.5
4 21	11 34.78	−16 46.5	2.041	2.925	11.2	20.7

425800 2011 CC_{109} 3 20.4 320°.52 5°.0/24.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.37	−11 35.3	1.695	2.454	17.8	21.5
2 21	12 22.05	−12 24.3	1.595	2.441	14.9	21.3
3 2	12 16.03	−12 55.3	1.514	2.429	11.4	21.0
3 12	12 7.81	−13 6.8	1.456	2.417	7.7	20.8
3 22	11 58.29	−12 59.2	1.423	2.405	5.1	20.6
4 1	11 48.67	−12 35.4	1.416	2.394	6.4	20.6
4 11	11 40.21	−12 2.1	1.436	2.384	10.0	20.8
4 21	11 33.89	−11 26.4	1.478	2.374	14.0	21.0

500365 2012 TT_{36} 3 20.4 144°.52 0°.5/21.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.20	− 4 45.4	2.599	3.365	12.1	22.7
2 21	12 18.29	− 4 16.2	2.511	3.373	9.5	22.6
3 2	12 12.73	− 3 34.6	2.445	3.381	6.5	22.4
3 12	12 5.99	− 2 43.4	2.408	3.388	3.2	22.2
3 22	11 58.68	− 1 46.6	2.399	3.395	0.6	22.0
4 1	11 51.50	− 0 49.3	2.422	3.402	3.8	22.2
4 11	11 45.13	+ 0 3.8	2.473	3.409	7.1	22.5
4 21	11 40.09	+ 0 48.6	2.550	3.415	10.0	22.6

290130 2005 QC_{153} 3 20.4 222°.34 1°.3/21.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.29	− 5 45.3	1.742	2.517	16.8	21.5
2 21	12 24.15	− 5 33.4	1.642	2.508	13.5	21.3
3 2	12 17.32	− 5 3.2	1.563	2.499	9.5	21.0
3 12	12 8.37	− 4 16.6	1.508	2.488	4.9	20.7
3 22	11 58.20	− 3 18.5	1.481	2.477	1.3	20.4
4 1	11 48.00	− 2 15.9	1.482	2.465	5.5	20.7
4 11	11 39.01	− 1 17.0	1.511	2.452	10.2	20.9
4 21	11 32.15	− 0 28.3	1.563	2.439	14.5	21.1

96364 1997 WD_{18} 3 20.4 106°.32 1°.3/21.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.00	− 5 20.5	1.592	2.376	17.7	19.6
2 21	12 23.85	− 5 14.4	1.516	2.387	14.1	19.4
3 2	12 16.98	− 4 49.9	1.460	2.398	9.8	19.2
3 12	12 8.11	− 4 10.0	1.429	2.409	5.0	18.9
3 22	11 58.27	− 3 20.0	1.424	2.420	1.4	18.7
4 1	11 48.71	− 2 27.1	1.447	2.430	5.5	19.0
4 11	11 40.60	− 1 39.0	1.496	2.440	10.1	19.3
4 21	11 34.75	− 1 1.5	1.568	2.450	14.2	19.5

337859 2001 VC_{128} 3 20.4 78°.73 2°.5/17.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.67	+ 4 29.6	2.268	3.072	12.4	21.0
2 21	12 18.03	+ 5 27.6	2.200	3.090	9.5	20.8
3 2	12 12.61	+ 6 33.7	2.157	3.107	6.3	20.6
3 12	12 5.94	+ 7 42.1	2.141	3.124	3.2	20.4
3 22	11 58.72	+ 8 46.8	2.154	3.141	3.0	20.5
4 1	11 51.74	+ 9 42.0	2.196	3.158	5.9	20.7
4 11	11 45.72	+10 23.6	2.265	3.175	9.0	20.9
4 21	11 41.19	+10 49.3	2.359	3.191	11.8	21.1

73017 2002 EL_{60} 3 20.4 287°.88 0°.9/21.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.71	− 5 34.6	1.550	2.345	17.6	20.4
2 21	12 20.19	− 5 12.2	1.445	2.324	14.2	20.1
3 2	12 14.91	− 4 27.8	1.361	2.303	10.0	19.8
3 12	12 7.35	− 3 24.0	1.301	2.282	5.1	19.5
3 22	11 58.41	− 2 6.3	1.266	2.262	1.0	19.1
4 1	11 49.32	− 0 43.8	1.257	2.241	6.1	19.4
4 11	11 41.42	+ 0 33.3	1.274	2.220	11.3	19.7
4 21	11 35.74	+ 1 36.4	1.314	2.199	16.1	19.9

58482 1996 TX_1 3 20.4 145°.54 0°.2/20.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.83	− 4 57.3	2.187	2.961	13.8	20.0
2 21	12 19.11	− 4 9.0	2.101	2.969	10.9	19.9
3 2	12 13.45	− 3 4.7	2.038	2.976	7.4	19.7
3 12	12 6.38	− 1 48.4	2.001	2.984	3.5	19.4
3 22	11 58.63	− 0 25.8	1.994	2.990	0.6	19.2
4 1	11 51.04	+ 0 56.0	2.017	2.996	4.6	19.5
4 11	11 44.42	+ 2 10.3	2.068	3.002	8.3	19.7
4 21	11 39.38	+ 3 12.1	2.144	3.008	11.6	20.0

54695 2001 FM_{54} 3 20.4 259°.24 1°.9/19.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.21	+ 2 9.2	1.585	2.390	16.9	18.9
2 21	12 25.24	+ 2 34.0	1.484	2.372	13.3	18.6
3 2	12 18.29	+ 3 12.5	1.404	2.353	9.0	18.3
3 12	12 8.93	+ 3 59.8	1.349	2.334	4.2	18.0
3 22	11 58.11	+ 4 48.9	1.320	2.314	2.5	17.8
4 1	11 47.17	+ 5 31.7	1.319	2.293	7.3	18.0
4 11	11 37.52	+ 6 1.1	1.343	2.272	12.3	18.3
4 21	11 30.21	+ 6 12.8	1.389	2.251	16.8	18.5

39923 1998 FT_{57} 3 20.4 237°.22 2°.0/22.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.81	− 9 1.3	1.839	2.606	16.3	19.2
2 21	12 20.49	− 8 39.0	1.737	2.596	13.3	18.9
3 2	12 14.76	− 7 55.3	1.657	2.586	9.5	18.7
3 12	12 7.15	− 6 52.1	1.600	2.576	5.3	18.4
3 22	11 58.47	− 5 34.2	1.571	2.565	2.0	18.2
4 1	11 49.79	− 4 9.0	1.571	2.554	5.1	18.3
4 11	11 42.20	− 2 45.4	1.597	2.543	9.5	18.6
4 21	11 36.52	− 1 31.3	1.648	2.531	13.5	18.8

365428 2010 LJ_9 3 20.4 329°.63 1°.4/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.26	+ 0 22.9	1.115	1.944	20.9	19.1
2 21	12 25.01	− 0 35.3	1.019	1.918	17.0	18.8
3 2	12 18.96	− 1 25.2	0.942	1.893	12.0	18.4
3 12	12 9.57	− 2 7.8	0.885	1.870	6.1	18.0
3 22	11 57.95	− 2 44.9	0.852	1.847	1.6	17.6
4 1	11 45.94	− 3 19.5	0.841	1.827	7.6	17.9
4 11	11 35.56	− 3 56.1	0.853	1.808	14.1	18.1
4 21	11 28.37	− 4 38.2	0.884	1.791	19.8	18.4

399307 1991 RJ_2 3 20.4 253°.11 0°.7/19.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 27.69	− 2 41.3	2.086	2.861	14.4	23.6
2 21	12 23.41	− 1 48.9	1.962	2.833	11.4	23.3
3 2	12 16.74	− 0 38.4	1.862	2.803	7.8	23.0
3 12	12 8.12	+ 0 46.4	1.788	2.772	3.6	22.7
3 22	11 58.28	+ 2 19.3	1.744	2.740	1.3	22.5
4 1	11 48.20	+ 3 52.3	1.731	2.706	5.8	22.7
4 11	11 38.96	+ 5 16.6	1.746	2.671	10.3	22.9
4 21	11 31.47	+ 6 25.9	1.786	2.635	14.3	23.1

237190 2008 UU_{223} 3 20.4 127°.62 1°.6/18.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.36	+ 2 13.1	2.184	2.981	13.1	20.8
2 21	12 19.51	+ 2 52.2	2.102	2.987	10.1	20.6
3 2	12 13.71	+ 3 41.2	2.044	2.992	6.7	20.4
3 12	12 6.51	+ 4 35.3	2.013	2.998	3.1	20.2
3 22	11 58.63	+ 5 29.1	2.010	3.003	2.1	20.1
4 1	11 50.91	+ 6 16.7	2.037	3.008	5.5	20.4
4 11	11 44.18	+ 6 53.4	2.091	3.013	9.0	20.6
4 21	11 39.03	+ 7 16.4	2.169	3.017	12.1	20.8

29128 1985 RA_1 3 20.4 207°.73 4°.9/25.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.16	−16 32.2	2.286	2.994	15.1	19.5
2 21	12 21.90	−16 51.6	2.180	2.988	12.8	19.3
3 2	12 15.49	−16 51.9	2.093	2.982	10.1	19.1
3 12	12 7.43	−16 32.3	2.031	2.975	7.2	18.9
3 22	11 58.45	−15 53.7	1.996	2.968	5.1	18.8
4 1	11 49.45	−14 59.8	1.989	2.960	5.6	18.8
4 11	11 41.37	−13 56.6	2.011	2.952	8.1	18.9
4 21	11 34.93	−12 51.2	2.058	2.943	11.1	19.1

139984 2001 SQ_{28} 3 20.4 71°.57 0°.8/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.81	− 1 30.1	1.696	2.496	16.1	20.3
2 21	12 20.33	− 0 46.7	1.627	2.512	12.5	20.1
3 2	12 14.47	+ 0 12.5	1.580	2.527	8.3	19.9
3 12	12 6.90	+ 1 21.8	1.558	2.543	3.8	19.6
3 22	11 58.57	+ 2 34.0	1.563	2.558	1.4	19.5
4 1	11 50.55	+ 3 40.8	1.597	2.574	5.9	19.8
4 11	11 43.83	+ 4 35.5	1.656	2.590	10.1	20.1
4 21	11 39.10	+ 5 13.8	1.739	2.605	13.7	20.4

412354 2013 LP_{15} 3 20.4 356°.04 2°.7/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.68	+ 3 8.5	1.239	2.075	18.8	20.7
2 21	12 20.50	+ 3 41.4	1.166	2.071	14.7	20.4
3 2	12 15.18	+ 4 29.3	1.112	2.068	9.8	20.1
3 12	12 7.45	+ 5 25.2	1.081	2.067	4.7	19.8
3 22	11 58.46	+ 6 19.7	1.073	2.066	3.5	19.8
4 1	11 49.69	+ 7 3.1	1.091	2.066	8.4	20.0
4 11	11 42.58	+ 7 28.0	1.131	2.067	13.5	20.3
4 21	11 38.07	+ 7 31.0	1.191	2.069	17.9	20.6

224408 2005 UT_{322} 3 20.4 234°.72 1°.4/21.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.44	− 7 52.8	2.069	2.835	14.8	21.0
2 21	12 19.11	− 7 20.3	1.967	2.827	11.9	20.7
3 2	12 13.66	− 6 29.0	1.886	2.817	8.4	20.5
3 12	12 6.59	− 5 21.1	1.830	2.808	4.5	20.2
3 22	11 58.63	− 4 1.6	1.803	2.798	1.4	20.0
4 1	11 50.68	− 2 37.4	1.805	2.788	4.6	20.2
4 11	11 43.69	− 1 16.5	1.835	2.777	8.7	20.4
4 21	11 38.36	− 0 5.4	1.890	2.766	12.3	20.6

284934 2010 DN_{26} 3 20.4 167°.55 7°.0/ 7.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.95	+27 15.1	3.162	3.960	9.4	21.4
2 21	12 18.74	+28 50.8	3.107	3.964	8.0	21.3
3 2	12 12.99	+30 20.4	3.078	3.968	7.2	21.3
3 12	12 6.13	+31 37.6	3.078	3.972	7.1	21.3
3 22	11 58.74	+32 37.6	3.104	3.975	7.9	21.3
4 1	11 51.48	+33 17.1	3.157	3.978	9.2	21.4
4 11	11 44.98	+33 34.9	3.233	3.980	10.7	21.5
4 21	11 39.73	+33 32.3	3.329	3.982	12.0	21.6

341277 2007 RG_{284} 3 20.4 194°.34 1°.8/18.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.00	+ 4 15.2	2.395	3.188	12.2	21.5
2 21	12 20.66	+ 4 41.9	2.304	3.187	9.4	21.4
3 2	12 14.44	+ 5 15.8	2.238	3.186	6.3	21.1
3 12	12 6.86	+ 5 52.8	2.200	3.184	3.0	20.9
3 22	11 58.60	+ 6 28.2	2.191	3.182	2.3	20.9
4 1	11 50.45	+ 6 57.5	2.211	3.179	5.4	21.1
4 11	11 43.19	+ 7 16.8	2.260	3.177	8.6	21.3
4 21	11 37.43	+ 7 24.0	2.333	3.174	11.6	21.5

507450 2012 TD_{54} 3 20.4 134°.47 3°.7/25.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.29	−15 9.5	2.663	3.375	13.1	22.0
2 21	12 18.42	−15 11.1	2.569	3.383	10.9	21.9
3 2	12 12.87	−14 56.0	2.496	3.392	8.4	21.7
3 12	12 6.11	−14 24.7	2.449	3.400	5.7	21.6
3 22	11 58.75	−13 39.3	2.430	3.408	3.8	21.4
4 1	11 51.49	−12 43.7	2.440	3.415	4.3	21.5
4 11	11 45.03	−11 43.1	2.479	3.422	6.7	21.6
4 21	11 39.91	−10 42.9	2.545	3.429	9.3	21.8

62006 2000 RQ_{38} 3 20.4 86°.39 6°.0/15.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 33.10	+13 2.5	1.597	2.413	16.2	18.9
2 21	12 27.48	+14 2.8	1.549	2.440	12.6	18.7
3 2	12 19.16	+15 4.3	1.524	2.468	8.9	18.6
3 12	12 9.02	+15 57.8	1.524	2.494	6.3	18.5
3 22	11 58.23	+16 35.2	1.552	2.520	6.8	18.6
4 1	11 48.08	+16 51.1	1.606	2.546	9.6	18.8
4 11	11 39.65	+16 44.1	1.685	2.571	12.9	19.0
4 21	11 33.62	+16 15.7	1.786	2.596	15.9	19.3

513039 2017 VK_{5} 3 20.4 189°.86 5°.3/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.91	+20 3.0	3.146	3.948	9.4	22.0
2 21	12 19.39	+21 3.1	3.070	3.946	7.6	21.9
3 2	12 13.37	+22 1.0	3.021	3.944	6.0	21.8
3 12	12 6.30	+22 51.2	3.000	3.942	5.3	21.7
3 22	11 58.72	+23 29.4	3.009	3.939	5.9	21.7
4 1	11 51.26	+23 52.2	3.045	3.936	7.5	21.8
4 11	11 44.54	+23 58.1	3.108	3.932	9.4	22.0
4 21	11 39.02	+23 47.2	3.193	3.928	11.1	22.1

390241 2012 XO_{69} 3 20.4 144°.60 0°.4/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.42	− 2 6.8	2.672	3.450	11.5	21.4
2 21	12 16.90	− 1 22.2	2.584	3.456	8.9	21.3
3 2	12 11.80	− 0 26.5	2.520	3.462	6.0	21.1
3 12	12 5.60	+ 0 36.9	2.483	3.467	2.7	20.9
3 22	11 58.85	+ 1 43.3	2.477	3.473	0.8	20.7
4 1	11 52.22	+ 2 47.6	2.501	3.478	4.1	21.0
4 11	11 46.35	+ 3 44.8	2.554	3.482	7.2	21.2
4 21	11 41.72	+ 4 31.5	2.632	3.487	10.0	21.4

21716 Panchamia 3 20.4 176°.71 0°.4/20.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.41	− 4 20.0	1.684	2.474	16.6	19.3
2 21	12 21.04	− 3 50.3	1.598	2.475	13.2	19.1
3 2	12 15.14	− 3 1.9	1.533	2.475	9.0	18.8
3 12	12 7.32	− 1 58.7	1.493	2.476	4.4	18.5
3 22	11 58.52	− 0 47.1	1.480	2.476	0.7	18.2
4 1	11 49.85	+ 0 24.7	1.494	2.476	5.6	18.6
4 11	11 42.43	+ 1 28.5	1.535	2.476	10.2	18.9
4 21	11 37.07	+ 2 18.3	1.599	2.475	14.2	19.1

277162 2005 NM_{20} 3 20.4 186°.49 7°.7/29.5 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 31.58	−28 3.1	2.918	3.515	14.1	22.1
2 21	12 25.84	−29 1.2	2.808	3.515	12.6	21.9
3 2	12 18.03	−29 41.0	2.716	3.514	10.9	21.8
3 12	12 8.62	−29 59.4	2.648	3.512	9.3	21.7
3 22	11 58.27	−29 55.0	2.606	3.509	8.0	21.6
4 1	11 47.84	−29 28.4	2.592	3.505	7.7	21.5
4 11	11 38.21	−28 43.6	2.605	3.501	8.5	21.6
4 21	11 30.11	−27 46.1	2.645	3.495	10.1	21.7

414819 2010 UV_{14} 3 20.4 77°.77 6°.8/14.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.69	+16 2.6	1.682	2.502	15.4	20.9
2 21	12 25.63	+17 0.3	1.629	2.520	12.1	20.7
3 2	12 17.96	+17 56.7	1.598	2.538	9.0	20.5
3 12	12 8.50	+18 42.8	1.593	2.556	7.0	20.5
3 22	11 58.33	+19 10.9	1.614	2.574	7.6	20.5
4 1	11 48.68	+19 16.4	1.662	2.592	10.1	20.7
4 11	11 40.62	+18 58.0	1.734	2.609	13.2	20.9
4 21	11 34.82	+18 18.1	1.827	2.627	16.0	21.2

61816 2000 QR_{190} 3 20.4 240°.12 2°.5/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.73	+ 4 0.4	1.864	2.664	14.9	19.6
2 21	12 24.34	+ 4 38.4	1.763	2.649	11.7	19.4
3 2	12 17.39	+ 5 27.5	1.685	2.633	7.8	19.1
3 12	12 8.43	+ 6 22.2	1.633	2.617	3.9	18.8
3 22	11 58.31	+ 7 15.8	1.609	2.599	3.1	18.7
4 1	11 48.16	+ 8 1.0	1.614	2.581	7.0	18.9
4 11	11 39.12	+ 8 31.9	1.645	2.562	11.3	19.1
4 21	11 32.09	+ 8 45.3	1.699	2.543	15.1	19.3

30768 1983 YK 3 20.4 10°.06 1°.4/18.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.44	+ 0 52.1	2.393	3.189	12.1	17.8
2 21	12 16.37	+ 1 45.3	2.305	3.189	9.4	17.7
3 2	12 11.58	+ 2 49.6	2.241	3.189	6.2	17.5
3 12	12 5.54	+ 4 0.2	2.204	3.189	2.8	17.2
3 22	11 58.88	+ 5 11.5	2.197	3.190	1.9	17.2
4 1	11 52.33	+ 6 17.7	2.219	3.190	5.1	17.4
4 11	11 46.60	+ 7 13.4	2.269	3.190	8.4	17.6
4 21	11 42.23	+ 7 55.2	2.343	3.191	11.3	17.8

190367 1999 RE_{54} 3 20.4 242°.76 2°.1/22.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.37	− 6 57.1	2.277	3.030	13.9	20.5
2 21	12 22.82	− 7 9.9	2.166	3.017	11.3	20.3
3 2	12 16.13	− 7 9.5	2.077	3.003	8.1	20.0
3 12	12 7.77	− 6 56.7	2.015	2.989	4.6	19.8
3 22	11 58.45	− 6 33.9	1.982	2.974	2.1	19.6
4 1	11 49.07	− 6 4.7	1.978	2.959	4.5	19.7
4 11	11 40.56	− 5 34.2	2.002	2.944	8.1	19.9
4 21	11 33.67	− 5 7.1	2.053	2.928	11.6	20.1

155610 2000 DQ_{87} 3 20.4 340°.79 2°.3/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 27.90	+ 3 14.0	1.318	2.140	18.7	20.1
2 21	12 24.47	+ 3 34.1	1.240	2.138	14.6	19.8
3 2	12 17.84	+ 4 7.3	1.183	2.136	9.8	19.6
3 12	12 8.72	+ 4 47.5	1.149	2.134	4.6	19.2
3 22	11 58.29	+ 5 26.8	1.139	2.133	3.0	19.1
4 1	11 48.06	+ 5 56.9	1.156	2.131	7.9	19.4
4 11	11 39.52	+ 6 11.2	1.196	2.130	13.0	19.7
4 21	11 33.65	+ 6 6.8	1.257	2.130	17.5	20.0

350556 2000 TG_{22} 3 20.4 209°.69 7°.2/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.21	+26 7.4	2.747	3.539	10.9	20.8
2 21	12 24.50	+26 56.7	2.675	3.534	9.1	20.7
3 2	12 16.90	+27 39.1	2.628	3.530	7.7	20.6
3 12	12 7.97	+28 8.3	2.608	3.525	7.2	20.5
3 22	11 58.45	+28 19.6	2.616	3.521	7.9	20.6
4 1	11 49.17	+28 10.1	2.650	3.515	9.4	20.7
4 11	11 40.91	+27 39.4	2.710	3.510	11.2	20.8
4 21	11 34.23	+26 49.6	2.792	3.504	13.0	20.9

89329 2001 VR_{46} 3 20.4 94°.85 3°.3/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.17	+ 4 33.6	1.519	2.335	17.0	19.3
2 21	12 23.99	+ 5 27.1	1.456	2.351	13.1	19.0
3 2	12 17.06	+ 6 31.8	1.415	2.366	8.7	18.8
3 12	12 8.17	+ 7 40.1	1.398	2.382	4.4	18.6
3 22	11 58.42	+ 8 42.9	1.409	2.397	3.9	18.6
4 1	11 49.08	+ 9 32.2	1.446	2.412	7.9	18.9
4 11	11 41.30	+10 2.5	1.509	2.426	12.1	19.1
4 21	11 35.84	+10 11.9	1.593	2.441	15.7	19.4

500720 2012 XL_{30} 3 20.4 117°.64 1°.7/22.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.33	− 8 29.3	2.744	3.489	12.0	22.8
2 21	12 18.31	− 8 18.0	2.657	3.503	9.6	22.7
3 2	12 12.73	− 7 53.7	2.594	3.516	6.9	22.5
3 12	12 6.03	− 7 18.1	2.557	3.529	3.9	22.3
3 22	11 58.82	− 6 34.3	2.549	3.542	1.7	22.2
4 1	11 51.74	− 5 46.3	2.572	3.554	3.5	22.3
4 11	11 45.44	− 4 58.7	2.624	3.566	6.4	22.5
4 21	11 40.41	− 4 15.6	2.702	3.578	9.1	22.7

49575 1999 CX_{119} 3 20.4 46°.71 10°.0/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.34	+21 48.0	1.542	2.375	15.9	18.0
2 21	12 22.70	+23 28.0	1.494	2.384	13.1	17.8
3 2	12 16.25	+25 2.2	1.468	2.394	10.8	17.7
3 12	12 7.80	+26 18.4	1.466	2.404	10.0	17.7
3 22	11 58.49	+27 7.0	1.488	2.415	11.1	17.8
4 1	11 49.66	+27 22.4	1.534	2.425	13.4	17.9
4 11	11 42.46	+27 4.6	1.600	2.436	16.1	18.1
4 21	11 37.63	+26 17.4	1.685	2.447	18.6	18.3

210548 1999 RY_{254} 3 20.4 202°.91 3°.8/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.49	+ 7 44.7	1.990	2.796	13.9	20.6
2 21	12 23.06	+ 8 40.3	1.903	2.792	10.8	20.4
3 2	12 16.32	+ 9 43.6	1.840	2.788	7.3	20.2
3 12	12 7.85	+10 47.8	1.803	2.783	4.3	20.0
3 22	11 58.48	+11 45.8	1.796	2.777	4.5	20.0
4 1	11 49.23	+12 30.7	1.816	2.770	7.6	20.2
4 11	11 41.10	+12 58.0	1.864	2.763	11.2	20.4
4 21	11 34.83	+13 5.9	1.934	2.756	14.4	20.5

183301 2002 UN_{20} 3 20.4 58°.80 0°.4/20.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.58	− 2 46.2	1.497	2.300	17.8	20.2
2 21	12 21.16	− 2 5.8	1.437	2.323	13.8	20.0
3 2	12 15.13	− 1 7.4	1.398	2.345	9.2	19.8
3 12	12 7.26	+ 0 3.3	1.383	2.368	4.2	19.6
3 22	11 58.62	+ 1 18.0	1.395	2.391	1.1	19.4
4 1	11 50.40	+ 2 27.9	1.434	2.413	6.0	19.8
4 11	11 43.69	+ 3 25.1	1.498	2.436	10.5	20.1
4 21	11 39.18	+ 4 5.0	1.585	2.459	14.4	20.4

140745 2001 UU_{108} 3 20.4 160°.80 4°.4/14.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.68	+13 13.8	2.607	3.415	10.9	20.3
2 21	12 19.47	+14 7.8	2.531	3.419	8.5	20.2
3 2	12 13.56	+15 3.4	2.480	3.422	6.1	20.0
3 12	12 6.44	+15 55.0	2.457	3.425	4.5	19.9
3 22	11 58.76	+16 37.3	2.463	3.427	5.0	20.0
4 1	11 51.24	+17 6.1	2.498	3.430	7.1	20.1
4 11	11 44.58	+17 18.8	2.560	3.432	9.5	20.2
4 21	11 39.30	+17 15.1	2.644	3.434	11.8	20.4

334529 2002 RJ_{204} 3 20.4 103°.99 1°.9/22.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.32	− 6 25.0	2.217	2.977	14.1	20.4
2 21	12 21.83	− 6 36.2	2.130	2.985	11.3	20.2
3 2	12 15.32	− 6 34.1	2.065	2.993	8.0	20.0
3 12	12 7.32	− 6 20.3	2.027	3.001	4.5	19.8
3 22	11 58.60	− 5 57.4	2.016	3.010	1.9	19.6
4 1	11 50.01	− 5 29.5	2.035	3.017	4.3	19.8
4 11	11 42.43	− 5 1.5	2.083	3.025	7.8	20.1
4 21	11 36.50	− 4 37.7	2.156	3.033	11.0	20.3

342826 2008 XE_{31} 3 20.4 235°.96 2°.8/17.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.43	+ 6 58.7	2.466	3.264	11.8	21.8
2 21	12 21.06	+ 7 38.3	2.366	3.250	9.1	21.6
3 2	12 14.79	+ 8 24.2	2.290	3.237	6.2	21.4
3 12	12 7.09	+ 9 11.6	2.242	3.222	3.4	21.2
3 22	11 58.63	+ 9 55.2	2.223	3.208	3.3	21.2
4 1	11 50.20	+10 30.1	2.234	3.192	6.1	21.3
4 11	11 42.59	+10 52.4	2.273	3.177	9.3	21.5
4 21	11 36.44	+11 0.2	2.336	3.160	12.2	21.7

382870 2004 HR_{31} 3 20.4 268°.57 4°.0/15.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.64	+10 11.0	2.330	3.142	11.9	20.9
2 21	12 18.95	+11 3.2	2.243	3.135	9.2	20.8
3 2	12 13.38	+12 0.0	2.181	3.128	6.4	20.6
3 12	12 6.43	+12 55.4	2.146	3.121	4.2	20.4
3 22	11 58.77	+13 43.6	2.139	3.114	4.6	20.4
4 1	11 51.20	+14 19.2	2.161	3.107	7.1	20.6
4 11	11 44.53	+14 38.8	2.209	3.099	10.1	20.7
4 21	11 39.36	+14 41.1	2.280	3.092	12.8	20.9

500058 2011 UA_{167} 3 20.4 104°.08 2°.9/23.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.67	−11 32.2	2.495	3.232	13.3	21.4
2 21	12 18.09	−11 34.9	2.398	3.234	10.9	21.2
3 2	12 12.75	−11 22.0	2.324	3.237	8.1	21.0
3 12	12 6.12	−10 54.5	2.275	3.239	5.1	20.9
3 22	11 58.83	−10 14.7	2.255	3.241	3.0	20.7
4 1	11 51.61	− 9 26.7	2.263	3.243	4.1	20.8
4 11	11 45.20	− 8 35.8	2.300	3.245	7.0	21.0
4 21	11 40.18	− 7 46.9	2.362	3.247	9.9	21.2

227367 2005 UB_{167} 3 20.4 271°.18 2°.0/22.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.61	− 8 21.4	1.871	2.642	15.9	21.2
2 21	12 19.54	− 8 6.7	1.769	2.631	12.9	21.0
3 2	12 14.14	− 7 32.3	1.688	2.619	9.3	20.7
3 12	12 6.91	− 6 40.0	1.632	2.608	5.2	20.5
3 22	11 58.66	− 5 34.0	1.603	2.596	2.0	20.2
4 1	11 50.40	− 4 21.0	1.601	2.585	4.9	20.4
4 11	11 43.18	− 3 9.2	1.627	2.573	9.2	20.6
4 21	11 37.80	− 2 5.8	1.676	2.562	13.2	20.8

58219 1992 WZ_2 3 20.4 155°.46 6°.7/13.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.26	+18 31.0	2.132	2.941	12.9	18.6
2 21	12 24.19	+19 33.4	2.064	2.947	10.4	18.5
3 2	12 16.90	+20 33.6	2.021	2.952	8.0	18.3
3 12	12 8.05	+21 23.8	2.005	2.956	6.7	18.3
3 22	11 58.48	+21 57.3	2.016	2.960	7.4	18.3
4 1	11 49.20	+22 9.7	2.054	2.964	9.6	18.5
4 11	11 41.13	+21 59.5	2.118	2.968	12.2	18.6
4 21	11 34.93	+21 28.1	2.203	2.971	14.6	18.8

488925 2005 UA_{47} 3 20.4 116°.85 0°.4/20.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.97	− 4 16.0	1.984	2.764	14.8	22.0
2 21	12 20.21	− 3 45.0	1.902	2.774	11.7	21.8
3 2	12 14.32	− 2 58.3	1.843	2.783	8.0	21.6
3 12	12 6.88	− 1 59.6	1.810	2.792	3.8	21.4
3 22	11 58.70	− 0 54.6	1.805	2.801	0.6	21.1
4 1	11 50.70	+ 0 10.2	1.828	2.809	4.8	21.5
4 11	11 43.80	+ 1 8.1	1.880	2.818	8.8	21.7
4 21	11 38.64	+ 1 54.3	1.955	2.826	12.3	21.9

388749 2007 WU 3 20.4 156°.38 4°.3/15.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.74	+12 59.7	2.547	3.354	11.2	21.5
2 21	12 20.32	+13 50.5	2.471	3.358	8.7	21.3
3 2	12 14.15	+14 42.8	2.421	3.363	6.2	21.1
3 12	12 6.74	+15 31.2	2.398	3.367	4.5	21.0
3 22	11 58.74	+16 10.2	2.404	3.370	4.9	21.1
4 1	11 50.93	+16 35.7	2.439	3.374	7.1	21.2
4 11	11 44.01	+16 45.3	2.501	3.377	9.6	21.4
4 21	11 38.53	+16 38.5	2.587	3.380	12.0	21.5

284154 2005 XO_{90} 3 20.4 177°.26 3°.8/23.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.60	−11 31.2	1.765	2.514	17.5	22.1
2 21	12 24.33	−11 43.1	1.673	2.516	14.5	21.8
3 2	12 17.42	−11 34.3	1.601	2.518	10.8	21.6
3 12	12 8.46	−11 4.6	1.553	2.519	6.8	21.4
3 22	11 58.41	−10 17.0	1.531	2.519	3.9	21.2
4 1	11 48.44	− 9 17.3	1.538	2.519	5.6	21.3
4 11	11 39.73	− 8 13.4	1.571	2.518	9.5	21.5
4 21	11 33.17	− 7 13.4	1.629	2.516	13.4	21.7

383787 2007 WQ_{10} 3 20.4 122°.26 3°.3/24.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.40	−12 27.0	2.442	3.173	13.7	21.4
2 21	12 19.45	−12 33.6	2.350	3.181	11.3	21.3
3 2	12 13.67	−12 24.0	2.280	3.188	8.4	21.1
3 12	12 6.56	−11 58.9	2.236	3.196	5.5	20.9
3 22	11 58.78	−11 20.7	2.219	3.203	3.4	20.8
4 1	11 51.11	−10 33.3	2.231	3.210	4.3	20.9
4 11	11 44.32	− 9 42.1	2.272	3.217	7.1	21.0
4 21	11 38.98	− 8 52.4	2.339	3.223	10.0	21.2

83446 2001 SL_{58} 3 20.4 186°.05 0°.4/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.44	− 1 3.8	2.675	3.452	11.5	20.6
2 21	12 18.51	− 0 35.9	2.580	3.452	9.0	20.5
3 2	12 12.94	+ 0 1.8	2.510	3.452	6.0	20.3
3 12	12 6.20	+ 0 46.4	2.467	3.451	2.8	20.0
3 22	11 58.85	+ 1 33.8	2.454	3.450	0.8	19.9
4 1	11 51.59	+ 2 19.5	2.471	3.448	4.1	20.1
4 11	11 45.09	+ 2 59.2	2.517	3.446	7.3	20.3
4 21	11 39.86	+ 3 29.8	2.589	3.444	10.1	20.5

210684 2000 RX_{91} 3 20.4 160°.33 0°.6/21.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.08	− 5 26.8	1.895	2.670	15.6	20.9
2 21	12 22.03	− 4 52.0	1.808	2.676	12.4	20.7
3 2	12 15.65	− 3 59.2	1.744	2.681	8.5	20.4
3 12	12 7.56	− 2 52.2	1.705	2.686	4.2	20.2
3 22	11 58.60	− 1 36.7	1.694	2.690	0.8	19.9
4 1	11 49.80	− 0 20.3	1.713	2.694	5.0	20.2
4 11	11 42.16	+ 0 49.1	1.759	2.697	9.3	20.5
4 21	11 36.41	+ 1 45.9	1.829	2.699	13.0	20.7

469399 2001 UQ_{15} 3 20.4 139°.78 3°.2/16.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.96	+10 30.3	2.765	3.560	10.7	21.3
2 21	12 21.82	+10 59.5	2.688	3.570	8.3	21.2
3 2	12 15.04	+11 30.8	2.636	3.579	5.7	21.0
3 12	12 7.12	+11 59.8	2.613	3.589	3.5	20.9
3 22	11 58.70	+12 22.5	2.620	3.598	3.6	20.9
4 1	11 50.46	+12 35.4	2.657	3.606	5.8	21.1
4 11	11 43.10	+12 36.4	2.723	3.614	8.4	21.2
4 21	11 37.10	+12 24.9	2.813	3.622	10.7	21.4

157590 2005 UO_{445} 3 20.4 20°.04 5°.7/26.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.37	−17 48.1	1.599	2.342	19.3	19.1
2 21	12 17.35	−17 51.9	1.516	2.347	16.3	18.9
3 2	12 12.79	−17 26.5	1.450	2.352	12.8	18.7
3 12	12 6.31	−16 31.6	1.406	2.357	9.0	18.5
3 22	11 58.83	−15 10.2	1.386	2.364	6.1	18.4
4 1	11 51.52	−13 29.8	1.392	2.370	6.4	18.4
4 11	11 45.49	−11 41.7	1.424	2.378	9.6	18.6
4 21	11 41.56	− 9 56.8	1.479	2.386	13.3	18.8

518069 2015 XG_{399} 3 20.4 5°.42 6°.9/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.28	+11 31.8	1.350	2.189	17.4	21.0
2 21	12 22.32	+12 54.9	1.283	2.189	13.6	20.7
3 2	12 16.30	+14 25.2	1.238	2.189	9.7	20.5
3 12	12 7.99	+15 51.1	1.216	2.189	7.1	20.3
3 22	11 58.53	+17 0.8	1.220	2.190	8.0	20.4
4 1	11 49.38	+17 44.7	1.247	2.191	11.4	20.6
4 11	11 41.87	+17 58.3	1.298	2.192	15.4	20.8
4 21	11 36.90	+17 42.3	1.366	2.193	19.0	21.1

391294 2006 SB_{300} 3 20.4 122°.24 2°.2/17.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.11	+ 2 56.7	2.442	3.242	11.8	20.5
2 21	12 16.83	+ 4 5.5	2.361	3.248	9.1	20.3
3 2	12 11.87	+ 5 24.1	2.304	3.254	6.0	20.1
3 12	12 5.71	+ 6 47.0	2.276	3.259	3.0	20.0
3 22	11 58.96	+ 8 8.1	2.277	3.265	2.7	19.9
4 1	11 52.35	+ 9 21.0	2.308	3.271	5.6	20.1
4 11	11 46.56	+10 21.0	2.367	3.276	8.7	20.3
4 21	11 42.12	+11 4.9	2.450	3.281	11.4	20.5

460096 2014 PA 3 20.4 188°.63 5°.3/14.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.10	+12 32.2	2.090	2.898	13.2	21.4
2 21	12 24.20	+13 45.5	2.010	2.897	10.4	21.2
3 2	12 17.03	+15 2.8	1.954	2.896	7.4	21.0
3 12	12 8.19	+16 16.1	1.926	2.894	5.5	20.9
3 22	11 58.50	+17 17.8	1.926	2.890	6.1	20.9
4 1	11 48.98	+18 1.5	1.955	2.886	8.8	21.1
4 11	11 40.58	+18 23.6	2.010	2.881	11.8	21.2
4 21	11 34.03	+18 23.8	2.087	2.875	14.6	21.4

210669 2000 QK_{117} 3 20.4 64°.19 8°.0/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.08	+10 48.8	1.339	2.174	17.7	19.3
2 21	12 23.20	+13 43.0	1.310	2.214	13.5	19.2
3 2	12 16.47	+16 40.2	1.306	2.253	9.8	19.1
3 12	12 7.85	+19 23.5	1.328	2.292	8.0	19.1
3 22	11 58.60	+21 38.2	1.377	2.330	9.3	19.3
4 1	11 50.05	+23 15.0	1.452	2.368	12.4	19.5
4 11	11 43.31	+24 12.1	1.549	2.405	15.5	19.8
4 21	11 39.01	+24 33.0	1.665	2.442	18.2	20.1

135660 2002 LP_{55} 3 20.4 270°.00 3°.7/23.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.77	−10 42.6	1.862	2.614	16.6	19.8
2 21	12 23.08	−10 59.5	1.745	2.591	13.8	19.6
3 2	12 16.77	−10 57.7	1.648	2.566	10.4	19.3
3 12	12 8.29	−10 36.5	1.575	2.542	6.6	19.0
3 22	11 58.46	− 9 57.6	1.528	2.517	3.8	18.8
4 1	11 48.37	− 9 5.5	1.510	2.491	5.6	18.8
4 11	11 39.25	− 8 7.5	1.518	2.465	9.7	19.0
4 21	11 32.10	− 7 11.3	1.550	2.438	13.9	19.2

15544 2000 EG_{17} 3 20.4 133°.22 0°.2/20.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.44	− 2 49.1	2.250	3.029	13.3	18.9
2 21	12 19.59	− 2 28.9	2.162	3.033	10.5	18.8
3 2	12 13.82	− 1 56.4	2.097	3.037	7.1	18.5
3 12	12 6.66	− 1 14.5	2.059	3.042	3.4	18.3
3 22	11 58.80	− 0 27.7	2.049	3.046	0.6	18.1
4 1	11 51.08	+ 0 18.8	2.069	3.049	4.4	18.4
4 11	11 44.28	+ 0 59.8	2.117	3.053	8.1	18.6
4 21	11 39.03	+ 1 31.5	2.190	3.057	11.3	18.8

209069 2003 QX_{87} 3 20.4 186°.74 1°.6/18.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.42	+ 0 59.5	2.030	2.822	14.2	21.7
2 21	12 22.17	+ 1 49.7	1.941	2.822	11.0	21.5
3 2	12 15.71	+ 2 52.7	1.874	2.821	7.3	21.2
3 12	12 7.59	+ 4 3.3	1.835	2.819	3.4	21.0
3 22	11 58.63	+ 5 14.9	1.825	2.817	2.2	20.9
4 1	11 49.77	+ 6 20.4	1.844	2.814	6.0	21.1
4 11	11 41.98	+ 7 13.4	1.890	2.811	9.8	21.4
4 21	11 35.97	+ 7 50.4	1.961	2.806	13.3	21.6

365446 2010 ML_{74} 3 20.4 235°.03 4°.7/25.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.16	−15 56.9	2.159	2.874	15.7	21.7
2 21	12 22.15	−16 3.3	2.043	2.859	13.3	21.5
3 2	12 15.87	−15 48.8	1.947	2.842	10.3	21.3
3 12	12 7.76	−15 12.4	1.875	2.825	7.2	21.0
3 22	11 58.58	−14 15.5	1.830	2.808	4.8	20.9
4 1	11 49.28	−13 2.6	1.814	2.789	5.5	20.9
4 11	11 40.89	−11 40.9	1.826	2.770	8.6	21.0
4 21	11 34.23	−10 18.5	1.863	2.750	12.0	21.2

495381 2014 OJ_{377} 3 20.4 181°.64 3°.1/17.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.90	+ 4 36.3	1.830	2.637	14.9	22.1
2 21	12 22.77	+ 5 35.7	1.748	2.638	11.5	21.9
3 2	12 16.22	+ 6 46.2	1.688	2.638	7.7	21.7
3 12	12 7.86	+ 8 1.0	1.655	2.638	4.0	21.5
3 22	11 58.58	+ 9 12.2	1.650	2.637	3.8	21.4
4 1	11 49.47	+10 12.0	1.674	2.636	7.3	21.7
4 11	11 41.56	+10 54.4	1.724	2.634	11.3	21.9
4 21	11 35.63	+11 16.8	1.796	2.632	14.7	22.1

424659 2008 QU_{41} 3 20.5 199°.14 1°.0/21.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.28	− 6 22.4	2.135	2.906	14.2	21.9
2 21	12 18.88	− 5 54.9	2.041	2.905	11.3	21.7
3 2	12 13.46	− 5 10.9	1.969	2.903	7.9	21.4
3 12	12 6.54	− 4 13.2	1.922	2.902	4.1	21.2
3 22	11 58.85	− 3 6.6	1.904	2.900	1.0	21.0
4 1	11 51.23	− 1 57.2	1.916	2.898	4.4	21.2
4 11	11 44.57	− 0 51.9	1.955	2.896	8.3	21.4
4 21	11 39.50	+ 0 3.9	2.019	2.894	11.7	21.6

156702 2002 LZ_{46} 3 20.5 242°.92 19°.9/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 31.67	+38 5.5	1.129	1.951	21.2	19.8
2 21	12 28.98	+41 28.0	1.100	1.948	20.0	19.7
3 2	12 21.68	+44 23.7	1.090	1.944	19.9	19.6
3 12	12 10.75	+46 31.7	1.099	1.939	20.9	19.7
3 22	11 58.07	+47 38.3	1.123	1.935	22.6	19.8
4 1	11 46.08	+47 39.6	1.163	1.931	24.6	19.9
4 11	11 36.88	+46 41.8	1.213	1.926	26.6	20.0
4 21	11 31.59	+44 56.4	1.273	1.922	28.4	20.2

313416 2002 PB_{180} 3 20.5 302°.01 1°.4/21.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.80	− 5 7.4	1.514	2.310	17.9	21.5
2 21	12 21.14	− 5 7.0	1.414	2.293	14.5	21.2
3 2	12 15.63	− 4 47.5	1.334	2.275	10.2	20.9
3 12	12 7.81	− 4 10.7	1.277	2.258	5.4	20.5
3 22	11 58.59	− 3 21.1	1.246	2.241	1.4	20.2
4 1	11 49.26	− 2 26.0	1.241	2.225	6.0	20.5
4 11	11 41.18	− 1 34.2	1.260	2.209	11.1	20.7
4 21	11 35.39	− 0 53.1	1.302	2.193	15.8	20.9

149736 2004 LH_{24} 3 20.5 245°.80 7°.2/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.30	+17 40.8	2.071	2.890	12.9	19.7
2 21	12 21.45	+19 13.7	1.989	2.877	10.4	19.6
3 2	12 15.32	+20 48.1	1.930	2.863	8.2	19.4
3 12	12 7.47	+22 14.6	1.899	2.848	7.2	19.3
3 22	11 58.68	+23 24.7	1.895	2.834	8.3	19.3
4 1	11 49.95	+24 11.6	1.917	2.818	10.6	19.4
4 11	11 42.28	+24 31.9	1.963	2.803	13.4	19.6
4 21	11 36.42	+24 25.9	2.029	2.787	16.0	19.7

249673 1999 VY_{157} 3 20.5 196°.92 0°.5/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.80	− 4 19.8	2.179	2.947	14.0	21.8
2 21	12 22.37	− 3 56.0	2.080	2.944	11.2	21.6
3 2	12 15.82	− 3 17.6	2.004	2.940	7.7	21.4
3 12	12 7.67	− 2 27.5	1.955	2.936	3.8	21.1
3 22	11 58.66	− 1 30.3	1.935	2.931	0.7	20.9
4 1	11 49.71	− 0 31.8	1.944	2.925	4.6	21.2
4 11	11 41.73	+ 0 21.8	1.982	2.918	8.6	21.4
4 21	11 35.41	+ 1 5.7	2.045	2.910	12.0	21.6

501045 2013 RK_{86} 3 20.5 267°.32 0°.3/20.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 30.24	− 0 47.7	1.917	2.699	15.2	21.1
2 21	12 25.49	− 1 2.0	1.813	2.686	12.1	20.9
3 2	12 18.20	− 1 6.1	1.731	2.672	8.3	20.6
3 12	12 8.89	− 1 2.1	1.675	2.658	4.0	20.3
3 22	11 58.43	− 0 53.3	1.648	2.644	0.7	20.0
4 1	11 47.91	− 0 43.9	1.649	2.629	5.3	20.3
4 11	11 38.49	− 0 38.4	1.678	2.615	9.7	20.5
4 21	11 31.04	− 0 40.6	1.731	2.600	13.6	20.8

21266 1996 HL_{25} 3 20.5 275°.15 1°.0/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.04	− 0 41.7	1.502	2.311	17.5	18.6
2 21	12 21.97	− 0 10.1	1.414	2.304	13.8	18.4
3 2	12 16.06	+ 0 38.9	1.347	2.296	9.3	18.1
3 12	12 7.94	+ 1 40.3	1.304	2.289	4.3	17.8
3 22	11 58.60	+ 2 46.7	1.287	2.282	1.7	17.6
4 1	11 49.33	+ 3 48.9	1.296	2.275	6.8	17.9
4 11	11 41.43	+ 4 38.6	1.331	2.268	11.8	18.1
4 21	11 35.83	+ 5 10.5	1.387	2.260	16.2	18.4

228027 2008 FF_{96} 3 20.5 223°.20 0°.0/20.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.15	− 3 2.6	2.564	3.330	12.2	22.4
2 21	12 20.82	− 2 29.2	2.452	3.317	9.7	22.2
3 2	12 14.66	− 1 43.3	2.365	3.303	6.6	22.0
3 12	12 7.10	− 0 47.7	2.306	3.288	3.1	21.7
3 22	11 58.77	+ 0 13.4	2.276	3.273	0.6	21.5
4 1	11 50.41	+ 1 14.5	2.278	3.256	4.3	21.7
4 11	11 42.81	+ 2 10.4	2.309	3.239	7.8	21.9
4 21	11 36.59	+ 2 56.7	2.366	3.221	11.0	22.1

68892 2002 JV_{81} 3 20.5 145°.68 1°.1/19.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.37	+ 0 27.7	1.887	2.678	15.1	20.1
2 21	12 23.76	+ 0 59.6	1.808	2.687	11.8	19.8
3 2	12 16.79	+ 1 43.9	1.750	2.696	7.8	19.6
3 12	12 8.11	+ 2 35.8	1.719	2.704	3.6	19.4
3 22	11 58.60	+ 3 29.4	1.717	2.711	1.6	19.2
4 1	11 49.31	+ 4 17.9	1.743	2.718	5.8	19.5
4 11	11 41.25	+ 4 55.6	1.797	2.725	9.8	19.8
4 21	11 35.13	+ 5 19.2	1.875	2.730	13.4	20.0

498716 2008 TM_{104} 3 20.5 169°.07 0°.4/20.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.25	− 0 27.8	2.196	2.981	13.4	22.0
2 21	12 21.07	− 0 10.4	2.107	2.982	10.5	21.8
3 2	12 14.87	+ 0 17.8	2.041	2.984	7.1	21.5
3 12	12 7.19	+ 0 53.5	2.001	2.985	3.3	21.3
3 22	11 58.77	+ 1 32.1	1.990	2.986	0.9	21.1
4 1	11 50.46	+ 2 8.7	2.009	2.987	4.8	21.4
4 11	11 43.13	+ 2 38.5	2.055	2.987	8.5	21.6
4 21	11 37.41	+ 2 58.0	2.127	2.988	11.8	21.8

296401 2009 FF_{75} 3 20.5 198°.36 1°.5/22.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.08	− 8 29.4	2.690	3.441	12.1	20.9
2 21	12 16.74	− 8 2.2	2.590	3.440	9.7	20.7
3 2	12 11.81	− 7 20.5	2.512	3.438	6.9	20.5
3 12	12 5.72	− 6 26.4	2.462	3.436	3.8	20.3
3 22	11 59.04	− 5 23.5	2.440	3.434	1.5	20.1
4 1	11 52.41	− 4 16.6	2.449	3.432	3.6	20.3
4 11	11 46.51	− 3 11.1	2.487	3.429	6.7	20.5
4 21	11 41.85	− 2 11.6	2.551	3.427	9.6	20.6

257374 2009 QA_{13} 3 20.5 112°.27 0°.8/21.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.71	− 5 12.2	2.962	3.723	10.8	21.1
2 21	12 16.25	− 4 54.1	2.868	3.727	8.6	20.9
3 2	12 11.37	− 4 25.3	2.798	3.731	5.9	20.8
3 12	12 5.48	− 3 47.9	2.756	3.735	3.1	20.6
3 22	11 59.09	− 3 5.1	2.743	3.739	0.8	20.4
4 1	11 52.78	− 2 20.7	2.761	3.743	3.3	20.6
4 11	11 47.14	− 1 38.5	2.807	3.747	6.2	20.8
4 21	11 42.61	− 1 2.1	2.881	3.750	8.8	21.0

292792 2006 UK_{225} 3 20.5 173°.06 0°.3/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.58	− 4 0.4	3.052	3.813	10.6	21.6
2 21	12 17.64	− 3 33.1	2.956	3.816	8.3	21.4
3 2	12 12.28	− 2 55.6	2.884	3.819	5.7	21.3
3 12	12 5.90	− 2 10.3	2.840	3.821	2.8	21.1
3 22	11 59.01	− 1 20.5	2.826	3.822	0.5	20.9
4 1	11 52.20	− 0 30.2	2.843	3.823	3.4	21.1
4 11	11 46.05	+ 0 16.5	2.890	3.824	6.3	21.3
4 21	11 41.01	+ 0 56.4	2.964	3.824	8.8	21.5

33793 1999 SO_{26} 3 20.5 226°.07 4°.7/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.53	+14 20.8	2.655	3.466	10.6	18.9
2 21	12 18.66	+15 20.5	2.572	3.460	8.4	18.7
3 2	12 13.10	+16 21.7	2.515	3.455	6.1	18.6
3 12	12 6.32	+17 18.4	2.485	3.449	4.7	18.5
3 22	11 58.94	+18 5.4	2.485	3.443	5.3	18.5
4 1	11 51.65	+18 38.1	2.512	3.437	7.4	18.6
4 11	11 45.17	+18 53.9	2.566	3.431	9.8	18.8
4 21	11 40.02	+18 52.3	2.643	3.424	12.1	18.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
173694 2001 PS_{38}			3 20.5 156°.57	4°.1/15.3 17		
	h m	° ′			°	m
2 11	12 25.17	+12 50.7	2.687	3.490	10.7	21.0
2 21	12 20.57	+13 38.4	2.611	3.496	8.4	20.9
3 2	12 14.29	+14 27.5	2.560	3.502	5.9	20.7
3 12	12 6.84	+15 12.8	2.538	3.507	4.2	20.6
3 22	11 58.85	+15 49.5	2.545	3.512	4.6	20.7
4 1	11 51.03	+16 13.6	2.581	3.516	6.7	20.8
4 11	11 44.06	+16 22.7	2.644	3.520	9.2	21.0
4 21	11 38.46	+16 16.5	2.732	3.524	11.4	21.1
173991 2001 XR_{170}			3 20.5 131°.69	0°.1/20.4 18		R
2 11	12 22.42	− 2 10.1	2.779	3.550	11.2	21.3
2 21	12 18.37	− 1 43.0	2.694	3.562	8.8	21.1
3 2	12 12.80	− 1 6.0	2.633	3.573	5.9	20.9
3 12	12 6.14	− 0 22.1	2.600	3.583	2.7	20.7
3 22	11 58.98	+ 0 24.9	2.597	3.593	0.5	20.6
4 1	11 51.95	+ 1 10.8	2.625	3.603	3.8	20.8
4 11	11 45.68	+ 1 51.5	2.681	3.613	6.8	21.0
4 21	11 40.65	+ 2 23.9	2.764	3.622	9.5	21.2
489305 2006 SP_{310}			3 20.5 233°.02	1°.0/21.7 17		
2 11	12 22.36	− 6 2.0	2.823	3.578	11.5	22.8
2 21	12 18.48	− 5 43.3	2.711	3.565	9.2	22.6
3 2	12 12.99	− 5 12.4	2.622	3.552	6.4	22.4
3 12	12 6.30	− 4 31.2	2.561	3.538	3.4	22.2
3 22	11 58.94	− 3 42.9	2.529	3.524	1.0	22.0
4 1	11 51.57	− 2 51.5	2.528	3.510	3.6	22.2
4 11	11 44.86	− 2 1.8	2.556	3.495	6.7	22.4
4 21	11 39.36	− 1 17.7	2.611	3.479	9.6	22.5
124980 2001 TV_{122}			3 20.5 157°.24	1°.8/22.0 18		
2 11	12 28.60	− 6 52.7	1.774	2.543	16.7	20.4
2 21	12 24.21	− 6 47.5	1.688	2.549	13.5	20.1
3 2	12 17.27	− 6 24.2	1.623	2.554	9.5	19.9
3 12	12 8.40	− 5 45.0	1.582	2.559	5.1	19.7
3 22	11 58.55	− 4 54.1	1.569	2.563	1.8	19.4
4 1	11 48.86	− 3 58.2	1.584	2.567	5.1	19.7
4 11	11 40.45	− 3 4.7	1.627	2.570	9.5	19.9
4 21	11 34.12	− 2 19.8	1.694	2.573	13.4	20.2
296529 2009 OL_{9}			3 20.5 295°.50	4°.5/24.5 17		
2 11	12 23.50	−13 16.1	1.745	2.497	17.6	20.5
2 21	12 20.48	−13 32.1	1.648	2.490	14.7	20.3
3 2	12 14.93	−13 26.0	1.571	2.484	11.2	20.1
3 12	12 7.40	−12 57.2	1.516	2.478	7.4	19.8
3 22	11 58.74	−12 7.8	1.487	2.471	4.7	19.6
4 1	11 50.08	−11 3.5	1.485	2.465	5.8	19.7
4 11	11 42.59	− 9 52.6	1.509	2.459	9.5	19.9
4 21	11 37.12	− 8 43.6	1.556	2.453	13.3	20.1
140926 2001 VY_{69}			3 20.5 21°.55	3°.3/17.6 18		
2 11	12 25.89	+ 8 21.3	1.860	2.675	14.3	18.9
2 21	12 21.83	+ 8 40.0	1.788	2.681	11.1	18.7
3 2	12 15.48	+ 9 3.2	1.739	2.689	7.5	18.5
3 12	12 7.49	+ 9 25.6	1.715	2.697	4.1	18.3
3 22	11 58.75	+ 9 41.7	1.719	2.705	3.8	18.3
4 1	11 50.29	+ 9 46.7	1.751	2.714	7.0	18.5
4 11	11 43.06	+ 9 37.9	1.808	2.724	10.5	18.7
4 21	11 37.74	+ 9 14.3	1.889	2.734	13.7	19.0
274919 2009 SX_{153}			3 20.5 71°.18	0°.8/21.3 16		
2 11	12 23.52	− 5 39.6	1.781	2.564	16.1	21.8
2 21	12 20.08	− 5 10.1	1.708	2.580	12.8	21.6
3 2	12 14.35	− 4 22.6	1.656	2.595	8.8	21.4
3 12	12 6.98	− 3 20.9	1.630	2.611	4.4	21.1
3 22	11 58.85	− 2 11.1	1.631	2.627	0.9	20.9
4 1	11 50.99	− 1 0.8	1.659	2.642	5.0	21.2
4 11	11 44.36	+ 0 2.6	1.715	2.658	9.1	21.5
4 21	11 39.62	+ 0 53.6	1.795	2.673	12.8	21.8
211881 2004 HC_{59}			3 20.5 196°.54	4°.2/15.6 17		
2 11	12 24.45	+12 9.9	2.463	3.271	11.5	21.2
2 21	12 20.22	+12 54.2	2.382	3.270	8.9	21.1
3 2	12 14.19	+13 40.6	2.325	3.269	6.3	20.9
3 12	12 6.85	+14 23.8	2.297	3.268	4.4	20.8
3 22	11 58.88	+14 58.4	2.297	3.267	4.7	20.8
4 1	11 51.06	+15 20.1	2.325	3.266	7.0	20.9
4 11	11 44.14	+15 26.3	2.381	3.265	9.7	21.1
4 21	11 38.68	+15 16.4	2.460	3.263	12.2	21.3
36987 2000 ST_{351}			3 20.5 231°.72	6°.3/12.6 18		
2 11	12 25.66	+16 45.7	2.322	3.134	11.9	19.7
2 21	12 21.47	+18 10.0	2.236	3.121	9.6	19.5
3 2	12 15.22	+19 35.8	2.174	3.108	7.4	19.4
3 12	12 7.41	+20 55.3	2.141	3.093	6.3	19.3
3 22	11 58.77	+22 1.0	2.135	3.079	7.2	19.3
4 1	11 50.18	+22 46.9	2.157	3.063	9.4	19.4
4 11	11 42.53	+23 9.8	2.205	3.047	12.0	19.6
4 21	11 36.48	+23 9.5	2.273	3.030	14.5	19.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
191943 2005 UM_{46}			3 20.5 145°.55	1°.9/22.2 18		
	h m	° ′			°	m
2 11	12 27.06	− 8 43.4	1.709	2.476	17.4	21.0
2 21	12 23.07	− 8 17.6	1.626	2.486	14.0	20.8
3 2	12 16.53	− 7 29.9	1.564	2.494	9.9	20.6
3 12	12 8.08	− 6 23.0	1.526	2.502	5.4	20.4
3 22	11 58.67	− 5 2.8	1.515	2.510	1.9	20.1
4 1	11 49.46	− 3 37.5	1.533	2.517	5.2	20.4
4 11	11 41.58	− 2 16.5	1.578	2.523	9.6	20.6
4 21	11 35.80	− 1 7.2	1.647	2.528	13.6	20.9
387266 2012 UQ_{106}			3 20.5 116°.41	2°.4/17.9 17		
2 11	12 25.25	+ 6 19.5	2.434	3.231	11.9	21.5
2 21	12 20.79	+ 6 47.0	2.355	3.239	9.2	21.3
3 2	12 14.53	+ 7 19.9	2.300	3.247	6.1	21.1
3 12	12 7.00	+ 7 53.8	2.273	3.255	3.2	21.0
3 22	11 58.88	+ 8 24.1	2.275	3.262	2.8	20.9
4 1	11 50.94	+ 8 46.6	2.306	3.269	5.5	21.1
4 11	11 43.92	+ 8 58.3	2.365	3.277	8.6	21.3
4 21	11 38.38	+ 8 57.5	2.449	3.283	11.3	21.5
264628 2001 WZ_{35}			3 20.5 89°.36	1°.7/18.8 18		
2 11	12 26.60	+ 1 28.2	1.934	2.729	14.6	21.2
2 21	12 22.15	+ 2 16.2	1.872	2.755	11.2	21.1
3 2	12 15.55	+ 3 15.3	1.833	2.780	7.4	20.9
3 12	12 7.49	+ 4 19.8	1.820	2.805	3.4	20.7
3 22	11 58.81	+ 5 23.0	1.836	2.829	2.2	20.6
4 1	11 50.50	+ 6 18.3	1.882	2.853	5.8	20.9
4 11	11 43.41	+ 7 0.6	1.954	2.876	9.5	21.2
4 21	11 38.15	+ 7 27.1	2.050	2.899	12.7	21.4
61795 2000 QF_{183}			3 20.5 185°.50	0°.1/20.4 18		
2 11	12 24.56	− 2 40.7	2.130	2.910	13.9	20.3
2 21	12 20.65	− 2 11.8	2.038	2.910	11.0	20.1
3 2	12 14.67	− 1 29.1	1.969	2.910	7.4	19.8
3 12	12 7.16	− 0 36.3	1.926	2.909	3.5	19.6
3 22	11 58.86	+ 0 21.8	1.912	2.908	0.7	19.3
4 1	11 50.66	+ 1 18.9	1.927	2.907	4.8	19.7
4 11	11 43.43	+ 2 9.2	1.970	2.905	8.7	19.9
4 21	11 37.86	+ 2 48.2	2.038	2.903	12.1	20.1
209408 2004 FB_{5}			3 20.5 37°.46	0°.4/20.9 17		
2 11	12 22.23	− 3 36.8	2.116	2.898	14.0	21.2
2 21	12 18.82	− 3 18.1	2.029	2.901	11.0	21.0
3 2	12 13.42	− 2 45.7	1.965	2.905	7.5	20.8
3 12	12 6.57	− 2 2.7	1.926	2.908	3.7	20.6
3 22	11 58.98	− 1 13.7	1.915	2.911	0.6	20.3
4 1	11 51.52	− 0 24.2	1.933	2.915	4.5	20.6
4 11	11 45.02	+ 0 20.1	1.979	2.918	8.3	20.9
4 21	11 40.13	+ 0 54.9	2.049	2.922	11.7	21.1
33532 Gabriellacoli			3 20.5 278°.07	4°.1/17.3 18		R
2 11	12 27.34	+ 6 58.5	1.529	2.350	16.6	18.5
2 21	12 23.81	+ 7 41.8	1.440	2.338	13.0	18.2
3 2	12 17.36	+ 8 35.1	1.373	2.325	8.9	17.9
3 12	12 8.62	+ 9 31.2	1.330	2.312	5.0	17.7
3 22	11 58.59	+10 21.4	1.314	2.300	4.8	17.6
4 1	11 48.61	+10 57.2	1.324	2.287	8.8	17.8
4 11	11 40.01	+11 12.7	1.358	2.274	13.3	18.0
4 21	11 33.77	+11 6.0	1.413	2.262	17.3	18.2
118383 1999 JE_{7}			3 20.5 359°.32	9°.5/11.9 18		
2 11	12 25.86	+20 31.8	1.523	2.358	15.9	18.8
2 21	12 22.54	+21 56.9	1.462	2.356	13.1	18.7
3 2	12 16.34	+23 18.3	1.423	2.355	10.6	18.5
3 12	12 8.03	+24 24.4	1.408	2.355	9.5	18.4
3 22	11 58.73	+25 5.3	1.417	2.355	10.6	18.5
4 1	11 49.77	+25 14.7	1.450	2.356	13.1	18.6
4 11	11 42.40	+24 51.5	1.504	2.357	16.1	18.8
4 21	11 37.41	+23 59.2	1.576	2.359	18.8	19.0
495950 2006 UV_{334}			3 20.5 231°.48	2°.6/23.1 17		
2 11	12 25.83	−10 19.3	2.193	2.937	14.7	22.4
2 21	12 21.79	−10 11.9	2.081	2.924	12.0	22.1
3 2	12 15.58	− 9 46.6	1.991	2.910	8.9	21.9
3 12	12 7.67	− 9 4.3	1.926	2.895	5.3	21.7
3 22	11 58.78	− 8 7.8	1.889	2.879	2.7	21.5
4 1	11 49.82	− 7 2.5	1.881	2.863	4.6	21.6
4 11	11 41.76	− 5 54.9	1.902	2.846	8.3	21.7
4 21	11 35.34	− 4 51.9	1.949	2.829	11.9	21.9
366021 2012 BP_{130}			3 20.5 147°.47	7°.7/12.2 18		
2 11	12 26.34	+17 5.8	1.798	2.623	14.3	20.9
2 21	12 22.42	+18 47.7	1.736	2.628	11.5	20.7
3 2	12 16.03	+20 30.0	1.698	2.633	8.9	20.6
3 12	12 7.83	+22 2.1	1.685	2.637	7.7	20.5
3 22	11 58.78	+23 14.4	1.700	2.642	8.8	20.6
4 1	11 50.00	+24 0.1	1.740	2.646	11.3	20.7
4 11	11 42.55	+24 16.7	1.803	2.649	14.1	20.9
4 21	11 37.15	+24 5.6	1.886	2.652	16.7	21.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
174174 2002 PO_{97}			3 20.5 197°.51	2°.8/17.2 17		
	h m	° ′			°	m
2 11	12 25.96	+ 5 3.3	2.273	3.069	12.7	20.8
2 21	12 21.63	+ 6 5.0	2.181	3.066	9.8	20.6
3 2	12 15.29	+ 7 16.0	2.114	3.062	6.5	20.4
3 12	12 7.46	+ 8 30.5	2.075	3.057	3.5	20.1
3 22	11 58.85	+ 9 41.8	2.066	3.051	3.4	20.1
4 1	11 50.31	+10 43.6	2.086	3.044	6.4	20.3
4 11	11 42.71	+11 30.7	2.134	3.037	9.8	20.5
4 21	11 36.70	+12 0.5	2.206	3.029	12.8	20.7
80683 2000 BP_{30}			3 20.5 179°.66	2°.0/18.7 18		
2 11	12 28.30	+ 1 30.6	1.680	2.481	16.2	20.1
2 21	12 24.13	+ 2 18.1	1.597	2.483	12.6	19.8
3 2	12 17.32	+ 3 20.0	1.536	2.484	8.4	19.6
3 12	12 8.51	+ 4 30.1	1.500	2.484	3.9	19.3
3 22	11 58.66	+ 5 40.7	1.492	2.484	2.6	19.2
4 1	11 48.98	+ 6 43.3	1.512	2.483	6.9	19.5
4 11	11 40.63	+ 7 30.7	1.558	2.482	11.3	19.7
4 21	11 34.44	+ 7 59.4	1.627	2.480	15.2	20.0
157487 2005 QG_{175}			3 20.5 104°.62	0°.9/19.7 18		
2 11	12 30.80	+ 1 42.9	1.982	2.768	14.6	20.8
2 21	12 25.45	+ 1 49.5	1.908	2.784	11.4	20.6
3 2	12 17.84	+ 2 5.2	1.857	2.801	7.6	20.4
3 12	12 8.61	+ 2 26.2	1.833	2.817	3.5	20.2
3 22	11 58.66	+ 2 48.1	1.837	2.832	1.4	20.1
4 1	11 49.02	+ 3 6.2	1.871	2.848	5.3	20.4
4 11	11 40.63	+ 3 16.4	1.933	2.862	9.2	20.6
4 21	11 34.16	+ 3 16.4	2.020	2.877	12.5	20.9
125428 2001 VN_{114}			3 20.5 294°.96	4°.0/17.6 18		
2 11	12 27.52	+ 6 35.5	1.419	2.244	17.4	19.6
2 21	12 24.09	+ 7 15.0	1.338	2.237	13.6	19.4
3 2	12 17.62	+ 8 5.0	1.276	2.229	9.3	19.1
3 12	12 8.76	+ 8 57.8	1.239	2.222	5.0	18.8
3 22	11 58.62	+ 9 44.6	1.228	2.215	4.7	18.8
4 1	11 48.60	+10 16.8	1.242	2.208	8.9	19.0
4 11	11 40.11	+10 28.5	1.280	2.201	13.5	19.2
4 21	11 34.14	+10 18.1	1.339	2.194	17.7	19.5
326387 2001 OL_{68}			3 20.5 156°.82	4°.0/15.6 18		
2 11	12 24.69	+ 8 14.9	2.257	3.063	12.4	20.8
2 21	12 20.57	+ 9 38.3	2.182	3.071	9.6	20.7
3 2	12 14.51	+11 8.6	2.131	3.078	6.5	20.5
3 12	12 7.06	+12 38.7	2.109	3.085	4.2	20.3
3 22	11 58.94	+14 1.2	2.117	3.091	4.7	20.4
4 1	11 50.99	+15 9.4	2.154	3.096	7.4	20.6
4 11	11 44.02	+15 58.9	2.217	3.101	10.3	20.7
4 21	11 38.61	+16 28.2	2.304	3.105	13.0	20.9
127361 2002 JY_{132}			3 20.5 253°.85	0°.5/20.9 17		
2 11	12 24.64	− 3 13.4	2.077	2.857	14.3	20.4
2 21	12 20.86	− 3 2.9	1.979	2.850	11.3	20.2
3 2	12 14.92	− 2 39.1	1.904	2.843	7.8	19.9
3 12	12 7.34	− 2 4.5	1.854	2.836	3.8	19.7
3 22	11 58.88	− 1 23.5	1.833	2.829	0.7	19.4
4 1	11 50.46	− 0 41.2	1.840	2.821	4.7	19.7
4 11	11 43.01	− 0 3.4	1.875	2.814	8.7	19.9
4 21	11 37.25	+ 0 25.5	1.934	2.807	12.3	20.1
492312 2014 BJ_{13}			3 20.5 140°.26	2°.5/23.3 17		
2 11	12 24.41	− 9 42.7	2.580	3.318	12.8	21.9
2 21	12 20.16	− 9 49.6	2.486	3.325	10.4	21.8
3 2	12 14.16	− 9 42.8	2.415	3.331	7.6	21.6
3 12	12 6.89	− 9 23.3	2.370	3.337	4.7	21.4
3 22	11 58.98	− 8 53.5	2.354	3.343	2.5	21.3
4 1	11 51.16	− 8 16.9	2.368	3.348	3.9	21.4
4 11	11 44.16	− 7 38.1	2.410	3.353	6.8	21.5
4 21	11 38.54	− 7 1.6	2.479	3.358	9.7	21.7
246708 2009 BQ_{4}			3 20.5 345°.66	5°.5/26.5 17		
2 11	12 21.34	−18 2.9	2.086	2.801	16.2	20.2
2 21	12 18.40	−18 21.4	1.988	2.799	13.8	20.0
3 2	12 13.32	−18 18.1	1.909	2.797	11.0	19.8
3 12	12 6.61	−17 51.9	1.854	2.795	8.0	19.6
3 22	11 59.02	−17 4.3	1.824	2.793	5.8	19.5
4 1	11 51.47	−15 59.6	1.821	2.792	6.0	19.5
4 11	11 44.89	−14 44.7	1.845	2.791	8.3	19.6
4 21	11 40.01	−13 27.4	1.894	2.790	11.4	19.8
93878 2000 WK_{128}			3 20.5 52°.89	2°.0/22.4 17		
2 11	12 22.99	− 8 3.3	1.832	2.605	16.2	19.7
2 21	12 19.77	− 7 52.8	1.748	2.610	13.0	19.5
3 2	12 14.25	− 7 23.3	1.684	2.616	9.3	19.2
3 12	12 7.03	− 6 37.3	1.646	2.622	5.2	19.0
3 22	11 58.95	− 5 39.2	1.634	2.627	2.0	18.8
4 1	11 51.03	− 4 35.6	1.650	2.634	4.8	19.0
4 11	11 44.25	− 3 34.1	1.692	2.640	8.9	19.3
4 21	11 39.34	− 2 41.0	1.759	2.646	12.6	19.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
190278 2217 $T\text{-}_{2}$			3 20.5 218°.74	0°.0/20.5 17		
	h m	° ′			°	m
2 11	12 24.15	− 2 54.6	2.334	3.109	13.0	21.6
2 21	12 20.22	− 2 25.5	2.233	3.101	10.3	21.4
3 2	12 14.36	− 1 43.4	2.154	3.093	7.0	21.1
3 12	12 7.05	− 0 51.3	2.102	3.085	3.3	20.9
3 22	11 58.95	+ 0 6.2	2.080	3.076	0.6	20.6
4 1	11 50.88	+ 1 3.5	2.087	3.066	4.5	20.9
4 11	11 43.65	+ 1 55.1	2.123	3.056	8.2	21.1
4 21	11 37.92	+ 2 36.6	2.184	3.046	11.5	21.3
150944 2001 TB_{106}			3 20.5 209°.80	6°.3/14.1 18		
2 11	12 29.49	+16 59.2	2.143	2.951	12.9	19.3
2 21	12 24.53	+17 57.2	2.063	2.946	10.3	19.1
3 2	12 17.31	+18 54.7	2.007	2.941	7.8	18.9
3 12	12 8.43	+19 44.2	1.978	2.935	6.3	18.8
3 22	11 58.73	+20 18.9	1.977	2.929	7.0	18.8
4 1	11 49.20	+20 33.6	2.004	2.923	9.3	19.0
4 11	11 40.80	+20 26.3	2.056	2.916	12.1	19.1
4 21	11 34.25	+19 57.9	2.130	2.908	14.7	19.3
28756 2000 HA_{6}			3 20.5 161°.86	0°.1/20.4 18		
2 11	12 23.51	− 2 6.6	2.573	3.346	12.0	19.6
2 21	12 19.43	− 1 43.6	2.481	3.350	9.4	19.4
3 2	12 13.66	− 1 9.9	2.414	3.354	6.4	19.2
3 12	12 6.66	− 0 28.6	2.374	3.357	3.0	19.0
3 22	11 59.05	+ 0 16.4	2.364	3.360	0.6	18.8
4 1	11 51.54	+ 1 0.6	2.384	3.363	4.1	19.1
4 11	11 44.84	+ 1 39.5	2.433	3.365	7.3	19.3
4 21	11 39.50	+ 2 9.9	2.507	3.367	10.3	19.5
95079 2002 AO_{78}			3 20.5 96°.07	1°.1/21.4 18		
2 11	12 29.37	− 4 50.9	1.574	2.358	17.9	20.7
2 21	12 24.95	− 4 41.6	1.504	2.376	14.2	20.5
3 2	12 17.82	− 4 14.4	1.455	2.393	9.8	20.2
3 12	12 8.71	− 3 32.4	1.430	2.410	4.9	20.0
3 22	11 58.70	− 2 41.4	1.431	2.427	1.1	19.8
4 1	11 49.03	− 1 48.8	1.461	2.444	5.5	20.1
4 11	11 40.89	− 1 2.1	1.517	2.460	10.1	20.4
4 21	11 35.04	− 0 26.8	1.596	2.475	14.1	20.7
188799 2005 WN_{34}			3 20.5 166°.29	1°.1/19.3 16		
2 11	12 26.07	+ 0 49.3	2.402	3.183	12.5	21.9
2 21	12 21.53	+ 1 22.9	2.314	3.189	9.7	21.7
3 2	12 15.12	+ 2 6.4	2.250	3.193	6.5	21.5
3 12	12 7.36	+ 2 55.8	2.213	3.197	3.0	21.3
3 22	11 58.93	+ 3 46.3	2.207	3.201	1.5	21.1
4 1	11 50.64	+ 4 32.8	2.230	3.204	4.9	21.4
4 11	11 43.25	+ 5 10.6	2.283	3.206	8.3	21.6
4 21	11 37.37	+ 5 36.8	2.360	3.207	11.3	21.8
14246 2000 AN_{50}			3 20.5 244°.04	0°.5/21.0 18	R	
2 11	12 23.20	− 3 47.4	2.145	2.923	13.9	17.9
2 21	12 19.62	− 3 30.0	2.051	2.921	11.0	17.7
3 2	12 14.02	− 2 58.9	1.979	2.918	7.6	17.5
3 12	12 6.91	− 2 16.9	1.934	2.916	3.7	17.2
3 22	11 59.01	− 1 28.4	1.917	2.913	0.6	17.0
4 1	11 51.18	− 0 38.8	1.929	2.910	4.5	17.2
4 11	11 44.30	+ 0 6.1	1.968	2.908	8.4	17.5
4 21	11 39.01	+ 0 41.8	2.032	2.905	11.8	17.7
160186 2001 XB_{123}			3 20.5 110°.63	1°.3/19.2 18		
2 11	12 25.33	+ 0 23.5	1.998	2.791	14.3	21.4
2 21	12 21.24	+ 1 7.4	1.924	2.805	11.1	21.3
3 2	12 15.04	+ 2 3.5	1.873	2.820	7.3	21.0
3 12	12 7.34	+ 3 6.5	1.849	2.834	3.3	20.8
3 22	11 58.94	+ 4 10.2	1.854	2.848	1.8	20.7
4 1	11 50.80	+ 5 8.1	1.888	2.861	5.5	21.0
4 11	11 43.77	+ 5 54.5	1.948	2.874	9.3	21.3
4 21	11 38.50	+ 6 26.1	2.033	2.887	12.6	21.5
250369 2003 TY			3 20.5 222°.00	2°.7/18.1 16		
2 11	12 29.83	+ 5 26.3	2.052	2.847	13.9	21.1
2 21	12 24.96	+ 6 0.5	1.954	2.837	10.9	20.9
3 2	12 17.74	+ 6 43.1	1.879	2.826	7.3	20.7
3 12	12 8.71	+ 7 28.8	1.831	2.814	3.8	20.4
3 22	11 58.68	+ 8 11.7	1.813	2.801	3.2	20.3
4 1	11 48.69	+ 8 45.6	1.823	2.788	6.6	20.5
4 11	11 39.75	+ 9 6.0	1.861	2.774	10.5	20.7
4 21	11 32.66	+ 9 10.5	1.923	2.759	13.9	20.9
11560 1993 FU_{24}			3 20.5 247°.37	0°.3/20.8 18		
2 11	12 24.22	− 3 6.6	2.025	2.808	14.5	18.8
2 21	12 20.56	− 2 50.1	1.930	2.803	11.5	18.6
3 2	12 14.74	− 2 19.8	1.858	2.798	7.9	18.3
3 12	12 7.28	− 1 38.4	1.811	2.794	3.8	18.1
3 22	11 58.94	− 0 50.7	1.793	2.789	0.6	17.8
4 1	11 50.67	− 0 2.5	1.803	2.784	4.8	18.1
4 11	11 43.40	+ 0 40.4	1.840	2.779	8.9	18.3
4 21	11 37.84	+ 1 13.1	1.902	2.774	12.5	18.6

142903 2002 VY_{49} 3 20.5 150°.17 1°.9/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.23	+ 2 21.8	2.143	2.935	13.5	21.3
2 21	12 21.85	+ 3 11.5	2.062	2.944	10.4	21.1
3 2	12 15.42	+ 4 11.6	2.006	2.953	6.9	20.9
3 12	12 7.52	+ 5 16.9	1.977	2.961	3.3	20.7
3 22	11 58.91	+ 6 21.1	1.977	2.968	2.4	20.6
4 1	11 50.49	+ 7 18.0	2.007	2.975	5.8	20.8
4 11	11 43.12	+ 8 2.3	2.064	2.981	9.3	21.1
4 21	11 37.41	+ 8 31.2	2.146	2.987	12.5	21.3

318195 2004 RK_{116} 3 20.5 272°.79 3°.1/17.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.10	+ 5 7.2	1.983	2.791	13.8	21.0
2 21	12 20.67	+ 6 2.3	1.878	2.769	10.8	20.8
3 2	12 14.96	+ 7 8.4	1.797	2.747	7.3	20.5
3 12	12 7.46	+ 8 19.7	1.743	2.725	3.9	20.2
3 22	11 58.90	+ 9 29.0	1.717	2.703	3.8	20.2
4 1	11 50.28	+10 28.6	1.719	2.680	7.3	20.3
4 11	11 42.61	+11 12.4	1.747	2.657	11.1	20.5
4 21	11 36.70	+11 36.8	1.798	2.634	14.7	20.7

287539 2003 ER_{11} 3 20.5 38°.88 5°.5/24.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 33.54	−13 17.7	2.143	2.857	15.8	20.0
2 21	12 27.79	−14 36.0	2.051	2.865	13.3	19.8
3 2	12 19.62	−15 40.1	1.982	2.874	10.4	19.6
3 12	12 9.59	−16 27.7	1.938	2.882	7.5	19.5
3 22	11 58.53	−16 57.7	1.922	2.891	5.6	19.4
4 1	11 47.53	−17 11.2	1.935	2.900	6.2	19.4
4 11	11 37.64	−17 12.0	1.977	2.910	8.7	19.6
4 21	11 29.67	−17 5.2	2.044	2.920	11.6	19.8

57225 2001 QG_{75} 3 20.5 181°.94 1°.2/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.39	+ 1 38.5	2.240	3.025	13.2	19.9
2 21	12 22.74	+ 2 3.8	2.149	3.026	10.3	19.7
3 2	12 16.04	+ 2 38.7	2.082	3.026	6.9	19.5
3 12	12 7.83	+ 3 19.3	2.042	3.026	3.2	19.3
3 22	11 58.86	+ 4 0.7	2.031	3.025	1.6	19.2
4 1	11 50.00	+ 4 37.7	2.051	3.024	5.2	19.4
4 11	11 42.12	+ 5 5.7	2.098	3.022	8.8	19.6
4 21	11 35.88	+ 5 21.9	2.170	3.020	12.0	19.8

249057 2007 TP_{220} 3 20.5 41°.34 3°.6/24.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.15	−13 9.9	2.004	2.750	15.8	20.2
2 21	12 18.17	−13 7.9	1.919	2.758	13.1	20.0
3 2	12 13.09	−12 45.3	1.854	2.767	9.8	19.8
3 12	12 6.48	−12 3.2	1.814	2.776	6.3	19.6
3 22	11 59.10	−11 4.8	1.800	2.785	3.8	19.5
4 1	11 51.88	− 9 55.9	1.814	2.795	4.8	19.5
4 11	11 45.69	− 8 43.9	1.855	2.805	8.0	19.7
4 21	11 41.20	− 7 35.9	1.921	2.815	11.3	20.0

236827 2007 RN_{59} 3 20.5 265°.35 1°.6/21.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.76	− 5 35.3	2.199	2.963	14.0	20.8
2 21	12 21.69	− 5 43.2	2.092	2.951	11.3	20.6
3 2	12 15.50	− 5 38.0	2.007	2.938	8.0	20.3
3 12	12 7.66	− 5 21.1	1.949	2.926	4.4	20.1
3 22	11 58.88	− 4 55.3	1.918	2.913	1.6	19.8
4 1	11 50.07	− 4 24.8	1.917	2.900	4.4	20.0
4 11	11 42.15	− 3 54.5	1.944	2.886	8.2	20.2
4 21	11 35.85	− 3 29.2	1.996	2.873	11.8	20.4

40897 1999 TG_{142} 3 20.5 118°.33 1°.2/21.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.02	− 6 4.7	2.078	2.848	14.6	19.8
2 21	12 20.27	− 5 49.4	1.992	2.854	11.6	19.6
3 2	12 14.45	− 5 18.7	1.927	2.861	8.1	19.4
3 12	12 7.10	− 4 35.0	1.888	2.867	4.3	19.1
3 22	11 58.99	− 3 42.6	1.877	2.873	1.2	18.9
4 1	11 51.03	− 2 47.3	1.896	2.878	4.4	19.2
4 11	11 44.09	− 1 55.3	1.941	2.884	8.3	19.4
4 21	11 38.82	− 1 11.7	2.012	2.889	11.7	19.6

31854 Darshanashah 3 20.5 299°.17 0°.4/20.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.50	− 3 57.9	1.369	2.178	18.9	20.0
2 21	12 21.15	− 3 37.2	1.279	2.166	15.1	19.7
3 2	12 15.80	− 2 54.7	1.207	2.154	10.4	19.4
3 12	12 8.01	− 1 53.8	1.158	2.142	5.1	19.1
3 22	11 58.81	− 0 41.5	1.135	2.131	0.8	18.8
4 1	11 49.58	+ 0 32.6	1.136	2.120	6.6	19.1
4 11	11 41.77	+ 1 37.8	1.162	2.109	12.1	19.4
4 21	11 36.43	+ 2 26.4	1.209	2.098	16.9	19.6

31758 1999 JQ_{99} 3 20.5 24°.31 6°.0/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 17.24	+ 6 25.1	1.268	2.117	17.6	17.4
2 21	12 16.06	+ 8 29.6	1.214	2.128	13.5	17.1
3 2	12 12.09	+10 48.1	1.182	2.141	9.1	16.9
3 12	12 6.10	+13 6.7	1.175	2.154	6.1	16.8
3 22	11 59.19	+15 10.6	1.193	2.169	7.2	16.9
4 1	11 52.64	+16 47.4	1.236	2.184	11.0	17.1
4 11	11 47.63	+17 50.2	1.301	2.201	14.9	17.4
4 21	11 44.87	+18 18.6	1.384	2.218	18.4	17.7

22829 Paigerin 3 20.5 160°.30 1°.8/18.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 27.75	+ 2 6.2	2.026	2.817	14.2	19.4
2 21	12 23.19	+ 2 48.9	1.943	2.824	11.0	19.2
3 2	12 16.41	+ 3 42.7	1.884	2.830	7.3	19.0
3 12	12 8.03	+ 4 42.3	1.852	2.836	3.4	18.7
3 22	11 58.84	+ 5 41.4	1.848	2.840	2.3	18.7
4 1	11 49.84	+ 6 33.6	1.874	2.845	5.9	18.9
4 11	11 41.96	+ 7 13.5	1.928	2.848	9.7	19.1
4 21	11 35.89	+ 7 38.2	2.006	2.851	13.1	19.4

349015 2006 UF_{289} 3 20.5 175°.25 1°.3/22.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.88	− 8 5.3	2.814	3.563	11.6	21.8
2 21	12 17.30	− 7 36.8	2.715	3.564	9.3	21.6
3 2	12 12.19	− 6 54.6	2.640	3.566	6.6	21.5
3 12	12 5.98	− 6 1.0	2.592	3.567	3.6	21.3
3 22	11 59.21	− 4 59.4	2.573	3.568	1.3	21.1
4 1	11 52.51	− 3 54.4	2.585	3.568	3.4	21.3
4 11	11 46.51	− 2 51.1	2.627	3.568	6.4	21.5
4 21	11 41.70	− 1 53.9	2.695	3.568	9.2	21.6

167632 2004 CO_{94} 3 20.5 115°.64 3°.5/24.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.92	−12 21.1	2.381	3.110	14.0	20.3
2 21	12 20.75	−12 37.3	2.289	3.118	11.6	20.2
3 2	12 14.68	−12 37.5	2.220	3.126	8.7	20.0
3 12	12 7.21	−12 22.2	2.175	3.134	5.7	19.8
3 22	11 59.02	−11 53.3	2.159	3.142	3.6	19.7
4 1	11 50.93	−11 14.4	2.171	3.149	4.5	19.8
4 11	11 43.76	−10 30.9	2.212	3.156	7.3	20.0
4 21	11 38.10	− 9 47.9	2.279	3.163	10.2	20.1

467433 2005 YP_{130} 3 20.5 141°.19 5°.4/13.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.36	+13 56.7	2.275	3.087	12.2	22.3
2 21	12 21.08	+15 18.1	2.209	3.097	9.5	22.1
3 2	12 14.86	+16 41.4	2.167	3.107	7.0	22.0
3 12	12 7.26	+17 59.0	2.154	3.117	5.5	21.9
3 22	11 59.03	+19 4.1	2.170	3.126	6.2	21.9
4 1	11 51.01	+19 51.0	2.213	3.134	8.4	22.1
4 11	11 44.02	+20 17.0	2.282	3.142	11.0	22.3
4 21	11 38.63	+20 22.0	2.373	3.149	13.4	22.4

95885 2003 HL_{4} 3 20.5 278°.60 1°.2/21.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.81	− 5 29.6	1.916	2.695	15.3	20.1
2 21	12 20.53	− 5 18.5	1.811	2.679	12.3	19.9
3 2	12 14.92	− 4 50.9	1.727	2.663	8.7	19.6
3 12	12 7.48	− 4 8.6	1.667	2.647	4.5	19.3
3 22	11 58.96	− 3 16.1	1.635	2.631	1.2	19.0
4 1	11 50.39	− 2 19.3	1.632	2.615	5.0	19.3
4 11	11 42.80	− 1 25.4	1.655	2.599	9.3	19.5
4 21	11 37.02	− 0 40.4	1.702	2.582	13.3	19.7

466330 2013 RC_{19} 3 20.5 223°.63 3°.0/23.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.34	−11 51.7	2.214	2.953	14.7	22.2
2 21	12 20.60	−11 42.3	2.106	2.944	12.1	22.0
3 2	12 14.77	−11 13.9	2.020	2.934	9.0	21.8
3 12	12 7.33	−10 27.5	1.959	2.924	5.6	21.5
3 22	11 59.00	− 9 26.0	1.926	2.914	3.1	21.4
4 1	11 50.65	− 8 14.6	1.921	2.903	4.5	21.4
4 11	11 43.19	− 7 0.4	1.946	2.891	8.0	21.6
4 21	11 37.35	− 5 50.2	1.996	2.879	11.5	21.8

500505 2012 TU_{286} 3 20.5 118°.23 2°.4/17.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.80	+ 6 2.0	2.524	3.321	11.5	21.7
2 21	12 19.63	+ 6 42.4	2.447	3.332	8.9	21.6
3 2	12 13.77	+ 7 28.5	2.396	3.343	5.9	21.4
3 12	12 6.72	+ 8 15.9	2.372	3.354	3.1	21.2
3 22	11 59.13	+ 8 59.7	2.378	3.364	2.9	21.2
4 1	11 51.71	+ 9 35.3	2.413	3.374	5.5	21.4
4 11	11 45.16	+ 9 59.3	2.476	3.384	8.4	21.6
4 21	11 40.00	+10 10.0	2.564	3.394	11.0	21.8

88857 2001 SK_{237} 3 20.5 0°.74 4°.4/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.54	+ 6 7.1	1.322	2.155	18.1	19.3
2 21	12 22.65	+ 7 3.2	1.250	2.154	14.1	19.1
3 2	12 16.68	+ 8 11.7	1.199	2.154	9.5	18.8
3 12	12 8.35	+ 9 23.7	1.171	2.154	5.3	18.5
3 22	11 58.83	+10 28.6	1.168	2.154	5.2	18.5
4 1	11 49.54	+11 16.6	1.190	2.154	9.4	18.8
4 11	11 41.89	+11 41.2	1.235	2.155	14.0	19.0
4 21	11 36.79	+11 40.7	1.300	2.156	18.1	19.3

333670 2008 SC_{302} 3 20.5 194°.84 2°.1/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.43	+ 2 26.4	2.148	2.948	13.2	21.0
2 21	12 19.00	+ 3 21.4	2.061	2.947	10.2	20.8
3 2	12 13.59	+ 4 27.5	1.997	2.946	6.8	20.6
3 12	12 6.73	+ 5 39.5	1.961	2.945	3.2	20.3
3 22	11 59.12	+ 6 50.7	1.953	2.944	2.6	20.3
4 1	11 51.62	+ 7 54.6	1.975	2.942	5.9	20.5
4 11	11 45.06	+ 8 45.5	2.023	2.941	9.5	20.7
4 21	11 40.08	+ 9 20.2	2.096	2.939	12.6	20.9

62353 2000 SH_{143} 3 20.5 186°.28 5°.4/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.10	−24 2.2	2.944	3.592	13.1	19.4
2 21	12 17.58	−24 2.1	2.835	3.592	11.5	19.2
3 2	12 12.45	−23 42.4	2.747	3.591	9.5	19.1
3 12	12 6.14	−23 2.3	2.682	3.590	7.4	19.0
3 22	11 59.22	−22 2.9	2.643	3.589	5.8	18.8
4 1	11 52.36	−20 47.4	2.633	3.587	5.5	18.8
4 11	11 46.22	−19 21.1	2.652	3.585	6.8	18.9
4 21	11 41.32	−17 50.1	2.698	3.583	8.8	19.0

327257 2005 SV_{118} 3 20.5 194°.03 1°.8/18.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.00	+ 1 31.6	2.234	3.026	13.0	21.8
2 21	12 20.16	+ 2 31.5	2.142	3.024	10.1	21.6
3 2	12 14.35	+ 3 43.4	2.075	3.022	6.7	21.4
3 12	12 7.08	+ 5 2.0	2.035	3.019	3.2	21.2
3 22	11 59.06	+ 6 20.9	2.024	3.015	2.4	21.1
4 1	11 51.11	+ 7 33.2	2.043	3.011	5.7	21.3
4 11	11 44.09	+ 8 33.0	2.090	3.006	9.3	21.5
4 21	11 38.61	+ 9 16.7	2.162	3.001	12.5	21.7

369090 2008 GA_{70} 3 20.5 252°.26 2°.5/17.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.98	+ 3 23.1	2.134	2.934	13.3	21.4
2 21	12 20.39	+ 4 23.3	2.030	2.916	10.3	21.1
3 2	12 14.68	+ 5 35.7	1.949	2.898	6.9	20.9
3 12	12 7.32	+ 6 54.7	1.895	2.879	3.5	20.6
3 22	11 59.01	+ 8 13.3	1.871	2.859	3.1	20.6
4 1	11 50.66	+ 9 24.1	1.875	2.839	6.6	20.7
4 11	11 43.20	+10 20.8	1.907	2.818	10.3	20.9
4 21	11 37.36	+10 59.6	1.962	2.797	13.7	21.1

423277 2004 XG_{3} 3 20.5 122°.72 6°.2/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.17	+18 27.7	2.384	3.190	11.8	21.9
2 21	12 23.10	+19 36.9	2.327	3.207	9.5	21.8
3 2	12 16.12	+20 43.7	2.296	3.224	7.3	21.7
3 12	12 7.81	+21 40.9	2.292	3.241	6.2	21.6
3 22	11 58.97	+22 22.8	2.316	3.256	6.9	21.7
4 1	11 50.42	+22 45.1	2.368	3.271	8.8	21.8
4 11	11 42.96	+22 46.7	2.445	3.286	11.0	22.0
4 21	11 37.15	+22 28.6	2.545	3.300	13.1	22.2

299998 2006 UU_{28} 3 20.5 251°.05 2°.2/23.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.76	−10 37.1	2.513	3.257	13.0	21.4
2 21	12 17.53	−10 17.5	2.404	3.247	10.6	21.2
3 2	12 12.54	− 9 41.3	2.318	3.237	7.8	21.0
3 12	12 6.24	− 8 49.9	2.258	3.227	4.7	20.8
3 22	11 59.23	− 7 46.6	2.226	3.216	2.3	20.6
4 1	11 52.22	− 6 36.3	2.223	3.206	3.9	20.7
4 11	11 45.96	− 5 25.0	2.250	3.195	7.1	20.9
4 21	11 41.03	− 4 18.3	2.302	3.184	10.2	21.1

234971 2002 XS_{105} 3 20.5 58°.24 2°.7/18.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.90	+ 3 27.2	1.194	2.020	20.0	20.2
2 21	12 26.04	+ 3 55.8	1.139	2.038	15.5	20.0
3 2	12 18.87	+ 4 37.8	1.103	2.056	10.3	19.7
3 12	12 9.30	+ 5 25.4	1.089	2.075	4.9	19.5
3 22	11 58.72	+ 6 9.6	1.101	2.094	3.3	19.4
4 1	11 48.72	+ 6 41.9	1.138	2.113	8.1	19.8
4 11	11 40.70	+ 6 56.3	1.198	2.132	13.1	20.1
4 21	11 35.50	+ 6 51.0	1.279	2.151	17.3	20.4

326360 2000 TE_{51} 3 20.5 212°.08 5°.0/14.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.69	+14 56.6	2.569	3.371	11.2	21.8
2 21	12 22.81	+15 56.6	2.480	3.362	8.9	21.6
3 2	12 16.03	+16 57.8	2.417	3.353	6.5	21.4
3 12	12 7.86	+17 54.1	2.382	3.343	5.1	21.3
3 22	11 58.96	+18 39.6	2.376	3.332	5.7	21.3
4 1	11 50.14	+19 9.5	2.399	3.321	7.8	21.5
4 11	11 42.20	+19 21.2	2.449	3.309	10.4	21.6
4 21	11 35.75	+19 14.4	2.522	3.296	12.8	21.8

309014 2006 UQ_{90} 3 20.5 119°.54 1°.0/19.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.78	+ 0 32.2	1.928	2.718	14.8	21.6
2 21	12 23.27	+ 1 0.0	1.852	2.731	11.5	21.4
3 2	12 16.49	+ 1 39.5	1.799	2.744	7.7	21.2
3 12	12 8.09	+ 2 26.1	1.772	2.756	3.5	21.0
3 22	11 58.93	+ 3 14.0	1.773	2.768	1.5	20.9
4 1	11 50.02	+ 3 57.3	1.804	2.779	5.5	21.1
4 11	11 42.31	+ 4 30.5	1.861	2.790	9.5	21.4
4 21	11 36.48	+ 4 50.5	1.943	2.801	12.9	21.6

338165 2002 RR_{66} 3 20.5 154°.99 4°.3/26.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.74	−17 22.1	2.682	3.378	13.4	22.0
2 21	12 19.69	−17 30.8	2.584	3.384	11.3	21.8
3 2	12 13.90	−17 22.1	2.507	3.390	8.9	21.6
3 12	12 6.85	−16 55.9	2.455	3.395	6.4	21.5
3 22	11 59.15	−16 13.8	2.431	3.401	4.5	21.4
4 1	11 51.52	−15 19.2	2.435	3.405	4.8	21.4
4 11	11 44.69	−14 17.4	2.469	3.410	6.8	21.5
4 21	11 39.22	−13 13.9	2.529	3.414	9.3	21.7

101024 1998 QO_{61} 3 20.5 177°.46 1°.8/18.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 27.05	+ 2 25.1	2.203	2.992	13.3	20.6
2 21	12 22.52	+ 3 8.0	2.115	2.995	10.3	20.4
3 2	12 15.94	+ 4 1.1	2.051	2.997	6.8	20.2
3 12	12 7.84	+ 4 59.6	2.014	2.998	3.2	19.9
3 22	11 58.98	+ 5 57.6	2.006	2.998	2.3	19.9
4 1	11 50.24	+ 6 49.1	2.028	2.998	5.7	20.1
4 11	11 42.50	+ 7 29.1	2.079	2.997	9.2	20.3
4 21	11 36.41	+ 7 54.7	2.153	2.995	12.4	20.5

90169 2003 AF_{12} 3 20.5 132°.02 2°.1/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.42	+ 1 32.9	1.998	2.796	14.1	19.9
2 21	12 20.61	+ 2 38.9	1.922	2.807	10.9	19.7
3 2	12 14.69	+ 3 57.5	1.869	2.817	7.2	19.5
3 12	12 7.25	+ 5 22.5	1.843	2.827	3.4	19.3
3 22	11 59.09	+ 6 46.4	1.846	2.837	2.7	19.3
4 1	11 51.13	+ 8 1.6	1.878	2.846	6.2	19.5
4 11	11 44.26	+ 9 1.9	1.937	2.854	9.9	19.8
4 21	11 39.12	+ 9 44.0	2.020	2.862	13.1	20.0

113204 2002 RX_{112} 3 20.5 151°.64 1°.3/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.21	+ 1 51.5	2.669	3.454	11.3	20.3
2 21	12 19.13	+ 2 30.6	2.584	3.462	8.7	20.2
3 2	12 13.44	+ 3 18.1	2.523	3.469	5.8	20.0
3 12	12 6.60	+ 4 10.0	2.491	3.475	2.7	19.8
3 22	11 59.20	+ 5 2.0	2.488	3.481	1.7	19.7
4 1	11 51.93	+ 5 49.2	2.516	3.487	4.6	19.9
4 11	11 45.45	+ 6 27.7	2.573	3.492	7.6	20.1
4 21	11 40.27	+ 6 54.8	2.654	3.497	10.3	20.3

374104 2004 RR_{315} 3 20.5 210°.91 3°.4/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.40	+ 9 57.9	2.696	3.490	11.0	22.7
2 21	12 22.47	+10 44.3	2.600	3.481	8.5	22.5
3 2	12 15.76	+11 34.6	2.529	3.472	5.9	22.3
3 12	12 7.73	+12 23.9	2.487	3.462	3.7	22.1
3 22	11 59.01	+13 7.0	2.475	3.451	4.0	22.1
4 1	11 50.34	+13 39.4	2.493	3.439	6.3	22.3
4 11	11 42.47	+13 58.0	2.540	3.426	9.1	22.4
4 21	11 35.98	+14 1.6	2.611	3.413	11.6	22.6

118481 2000 BK_{32} 3 20.5 176°.37 4°.8/24.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.92	−12 16.9	1.608	2.359	18.9	20.0
2 21	12 25.76	−12 49.2	1.519	2.361	15.7	19.7
3 2	12 18.70	−13 0.0	1.448	2.362	11.9	19.5
3 12	12 9.34	−12 48.3	1.401	2.362	7.9	19.3
3 22	11 58.71	−12 15.6	1.378	2.363	4.9	19.1
4 1	11 48.14	−11 27.1	1.383	2.363	6.3	19.2
4 11	11 38.95	−10 31.0	1.414	2.362	10.2	19.4
4 21	11 32.14	− 9 36.0	1.469	2.361	14.2	19.6

280135 2002 NM_{68} 3 20.5 173°.85 0°.3/20.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.08	− 2 4.5	1.549	2.344	17.6	21.3
2 21	12 25.02	− 1 39.6	1.466	2.346	13.9	21.1
3 2	12 18.12	− 0 57.4	1.404	2.348	9.5	20.8
3 12	12 9.02	− 0 2.2	1.365	2.349	4.4	20.5
3 22	11 58.78	+ 0 59.1	1.354	2.350	1.0	20.3
4 1	11 48.70	+ 1 58.3	1.371	2.350	6.3	20.6
4 11	11 40.06	+ 2 47.2	1.413	2.350	11.2	20.9
4 21	11 33.76	+ 3 20.7	1.477	2.349	15.4	21.2

426339 2012 WL_{12} 3 20.5 181°.59 5°.1/14.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.32	+15 31.2	2.576	3.385	11.0	21.4
2 21	12 20.12	+16 29.2	2.499	3.385	8.7	21.2
3 2	12 14.17	+17 27.5	2.448	3.385	6.4	21.1
3 12	12 6.96	+18 20.1	2.425	3.385	5.1	21.0
3 22	11 59.16	+19 1.5	2.430	3.385	5.7	21.0
4 1	11 51.50	+19 27.6	2.464	3.384	7.7	21.2
4 11	11 44.71	+19 35.9	2.523	3.384	10.1	21.3
4 21	11 39.34	+19 26.4	2.605	3.383	12.3	21.5

238684 2005 EF_{235} 3 20.5 127°.10 1°.4/18.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.13	− 0 11.2	2.222	3.015	13.0	21.0
2 21	12 17.90	+ 0 50.9	2.138	3.020	10.1	20.8
3 2	12 12.80	+ 2 6.0	2.077	3.024	6.7	20.6
3 12	12 6.36	+ 3 28.8	2.044	3.029	3.0	20.4
3 22	11 59.26	+ 4 52.8	2.040	3.034	1.9	20.3
4 1	11 52.28	+ 6 11.2	2.066	3.038	5.3	20.5
4 11	11 46.22	+ 7 17.8	2.120	3.042	8.8	20.7
4 21	11 41.64	+ 8 8.7	2.198	3.046	12.0	21.0

193064 2000 GD_{9} 3 20.5 28°.17 0°.1/20.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.13	− 0 43.9	1.153	1.975	20.8	19.9
2 21	12 25.03	− 0 54.7	1.086	1.981	16.5	19.6
3 2	12 18.47	− 0 48.9	1.038	1.989	11.2	19.4
3 12	12 9.26	− 0 30.3	1.012	1.997	5.3	19.1
3 22	11 58.75	− 0 5.1	1.009	2.006	0.9	18.8
4 1	11 48.60	+ 0 18.9	1.031	2.015	7.0	19.2
4 11	11 40.38	+ 0 34.3	1.076	2.025	12.6	19.5
4 21	11 35.07	+ 0 36.3	1.142	2.036	17.3	19.8

381438 2008 QR_9 3 20.5 219.°96 0.°9/19.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.19	− 0 44.5	2.196	2.984	13.3	21.5
2 21	12 19.61	− 0 1.7	2.100	2.978	10.4	21.2
3 2	12 14.05	+ 0 54.1	2.028	2.973	7.0	21.0
3 12	12 6.99	+ 1 58.7	1.982	2.966	3.2	20.8
3 22	11 59.14	+ 3 6.5	1.965	2.960	1.4	20.6
4 1	11 51.35	+ 4 11.0	1.977	2.953	5.2	20.9
4 11	11 44.47	+ 5 6.3	2.018	2.946	8.9	21.1
4 21	11 39.14	+ 5 48.1	2.083	2.938	12.2	21.3

201545 2003 QF_{103} 3 20.5 188.°46 4.°7/15.1 18

2 11	12 26.90	+13 30.2	2.447	3.251	11.6	20.6
2 21	12 22.21	+14 21.8	2.366	3.251	9.1	20.4
3 2	12 15.63	+15 14.9	2.309	3.250	6.6	20.3
3 12	12 7.67	+16 3.6	2.281	3.248	4.8	20.2
3 22	11 59.04	+16 42.3	2.281	3.246	5.3	20.2
4 1	11 50.56	+17 6.4	2.311	3.243	7.5	20.3
4 11	11 43.02	+17 13.4	2.367	3.241	10.2	20.5
4 21	11 37.01	+17 3.0	2.446	3.237	12.6	20.6

432030 2008 WJ_{41} 3 20.5 173.°48 0.°0/20.6 17

2 11	12 23.27	− 2 53.4	2.300	3.078	13.1	21.9
2 21	12 19.53	− 2 25.2	2.209	3.079	10.3	21.7
3 2	12 13.90	− 1 44.2	2.140	3.080	7.0	21.5
3 12	12 6.89	− 0 53.8	2.099	3.081	3.3	21.3
3 22	11 59.18	+ 0 1.6	2.086	3.082	0.6	21.0
4 1	11 51.57	+ 0 56.4	2.103	3.082	4.4	21.3
4 11	11 44.84	+ 1 45.1	2.148	3.083	8.0	21.6
4 21	11 39.61	+ 2 23.7	2.218	3.082	11.2	21.8

421919 2014 QR_{231} 3 20.5 54.°89 1.°7/21.7 18

2 11	12 30.37	− 4 7.7	1.431	2.223	19.0	20.7
2 21	12 26.08	− 4 31.7	1.362	2.237	15.2	20.5
3 2	12 18.80	− 4 39.3	1.313	2.251	10.6	20.2
3 12	12 9.31	− 4 32.3	1.287	2.266	5.6	20.0
3 22	11 58.77	− 4 14.7	1.286	2.281	1.8	19.8
4 1	11 48.58	− 3 52.4	1.313	2.297	5.8	20.1
4 11	11 40.06	− 3 32.0	1.365	2.312	10.5	20.4
4 21	11 34.06	− 3 18.8	1.439	2.328	14.7	20.6

120067 2003 CQ_{18} 3 20.5 197.°74 2.°7/17.1 17

2 11	12 23.35	+ 3 47.4	2.281	3.079	12.6	20.3
2 21	12 19.65	+ 5 5.3	2.190	3.077	9.7	20.1
3 2	12 14.02	+ 6 34.3	2.124	3.073	6.4	19.9
3 12	12 6.97	+ 8 8.2	2.087	3.069	3.4	19.7
3 22	11 59.17	+ 9 39.7	2.079	3.064	3.4	19.6
4 1	11 51.45	+11 1.7	2.101	3.059	6.4	19.8
4 11	11 44.61	+12 8.1	2.151	3.053	9.7	20.0
4 21	11 39.28	+12 55.9	2.225	3.047	12.7	20.2

48604 1995 CV 3 20.5 249.°18 0.°7/19.0 18

2 11	12 15.24	+ 1 52.1	4.577	5.356	7.0	20.0
2 21	12 12.39	+ 2 22.1	4.475	5.351	5.4	19.8
3 2	12 8.65	+ 2 56.9	4.401	5.345	3.6	19.7
3 12	12 4.30	+ 3 34.4	4.355	5.339	1.6	19.5
3 22	11 59.65	+ 4 12.2	4.340	5.334	0.9	19.5
4 1	11 55.02	+ 4 48.0	4.356	5.328	2.8	19.6
4 11	11 50.77	+ 5 19.5	4.402	5.322	4.7	19.8
4 21	11 47.18	+ 5 45.0	4.475	5.316	6.5	19.9

192671 1999 RF_{213} 3 20.5 94.°46 3.°5/23.8 18

2 11	12 28.06	−10 47.5	2.084	2.825	15.4	20.0
2 21	12 23.45	−11 14.0	2.000	2.838	12.7	19.8
3 2	12 16.63	−11 24.1	1.937	2.850	9.4	19.6
3 12	12 8.20	−11 18.1	1.900	2.863	6.0	19.4
3 22	11 58.97	−10 58.0	1.890	2.875	3.6	19.3
4 1	11 49.90	−10 27.6	1.909	2.888	4.9	19.4
4 11	11 41.94	− 9 52.6	1.955	2.900	8.1	19.6
4 21	11 35.76	− 9 18.5	2.027	2.912	11.3	19.9

241480 2009 BG_{75} 3 20.5 273.°56 3.°0/17.6 17

2 11	12 25.79	+ 7 37.7	2.219	3.022	12.7	20.6
2 21	12 21.59	+ 8 5.6	2.129	3.017	9.9	20.4
3 2	12 15.35	+ 8 38.9	2.063	3.011	6.7	20.2
3 12	12 7.60	+ 9 12.6	2.024	3.005	3.7	20.0
3 22	11 59.08	+ 9 41.5	2.014	3.000	3.5	19.9
4 1	11 50.67	+10 0.9	2.033	2.994	6.4	20.1
4 11	11 43.22	+10 7.4	2.078	2.988	9.7	20.3
4 21	11 37.39	+ 9 59.4	2.148	2.982	12.7	20.5

217956 2001 UJ_{109} 3 20.5 168.°31 2.°2/18.0 16

2 11	12 26.88	+ 4 42.7	2.435	3.225	12.1	21.8
2 21	12 22.16	+ 5 25.2	2.350	3.230	9.4	21.6
3 2	12 15.58	+ 6 15.1	2.289	3.235	6.2	21.4
3 12	12 7.66	+ 7 7.7	2.256	3.239	3.1	21.2
3 22	11 59.08	+ 7 57.8	2.253	3.242	2.7	21.2
4 1	11 50.64	+ 8 40.2	2.281	3.244	5.6	21.4
4 11	11 43.12	+ 9 11.0	2.336	3.246	8.8	21.6
4 21	11 37.10	+ 9 27.9	2.417	3.247	11.6	21.8

34611 Nacogdoches 3 20.5 323.°32 0.°3/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.88	− 1 5.2	2.152	2.942	13.5	19.1
2 21	12 18.66	− 0 46.5	2.056	2.934	10.6	18.9
3 2	12 13.45	− 0 16.0	1.982	2.927	7.2	18.6
3 12	12 6.74	+ 0 22.9	1.935	2.919	3.3	18.4
3 22	11 59.24	+ 1 5.9	1.916	2.912	0.8	18.2
4 1	11 51.78	+ 1 47.6	1.926	2.905	4.8	18.4
4 11	11 45.23	+ 2 22.7	1.962	2.898	8.6	18.7
4 21	11 40.23	+ 2 47.3	2.023	2.892	12.0	18.9

264735 2002 CY_{160} 3 20.5 71.°85 7.°0/12.9 18

2 11	12 23.72	+14 57.6	1.789	2.618	14.2	20.2
2 21	12 20.40	+16 36.3	1.729	2.625	11.2	20.0
3 2	12 14.72	+18 17.1	1.692	2.633	8.4	19.8
3 12	12 7.34	+19 49.7	1.681	2.641	7.0	19.8
3 22	11 59.16	+21 4.9	1.697	2.649	8.0	19.8
4 1	11 51.26	+21 55.5	1.739	2.656	10.6	20.0
4 11	11 44.62	+22 18.7	1.805	2.664	13.5	20.2
4 21	11 39.92	+22 15.2	1.890	2.672	16.1	20.4

155766 2000 SO_{223} 3 20.5 155.°57 0.°3/20.2 17 R

2 11	12 25.43	− 1 48.7	2.318	3.095	13.1	21.5
2 21	12 21.15	− 1 19.2	2.231	3.101	10.2	21.4
3 2	12 14.96	− 0 37.9	2.167	3.108	6.9	21.2
3 12	12 7.40	+ 0 11.8	2.130	3.114	3.2	20.9
3 22	11 59.16	+ 1 5.0	2.123	3.119	0.8	20.7
4 1	11 51.06	+ 1 56.5	2.146	3.124	4.5	21.0
4 11	11 43.88	+ 2 41.0	2.197	3.128	8.1	21.3
4 21	11 38.24	+ 3 14.9	2.273	3.132	11.2	21.5

2586 Matson 3 20.5 223.°64 0.°6/19.9 18

2 11	12 24.83	− 2 10.8	1.772	2.566	15.8	17.2
2 21	12 21.43	− 1 29.8	1.680	2.560	12.5	16.9
3 2	12 15.57	− 0 31.7	1.610	2.555	8.4	16.7
3 12	12 7.84	+ 0 38.9	1.565	2.549	3.9	16.4
3 22	11 59.07	+ 1 55.3	1.547	2.543	1.2	16.1
4 1	11 50.37	+ 3 9.3	1.558	2.536	5.9	16.4
4 11	11 42.82	+ 4 12.7	1.595	2.529	10.4	16.7
4 21	11 37.23	+ 5 0.2	1.656	2.522	14.3	16.9

35404 1997 YV_5 3 20.5 274.°57 6.°2/24.9 18 R

2 11	12 28.81	−14 34.5	1.720	2.456	18.4	17.4
2 21	12 25.13	−15 25.1	1.606	2.434	15.7	17.1
3 2	12 18.54	−15 56.3	1.510	2.411	12.4	16.8
3 12	12 9.47	−16 5.1	1.437	2.388	8.9	16.6
3 22	11 58.76	−15 50.4	1.388	2.364	6.4	16.4
4 1	11 47.69	−15 14.6	1.367	2.340	7.2	16.4
4 11	11 37.68	−14 24.3	1.371	2.316	10.7	16.5
4 21	11 29.87	−13 28.4	1.398	2.291	14.8	16.7

245207 2004 VZ_{25} 3 20.5 145.°51 0.°8/21.3 18

2 11	12 28.06	− 5 21.7	1.863	2.635	15.9	21.6
2 21	12 23.68	− 4 58.6	1.780	2.645	12.7	21.4
3 2	12 16.92	− 4 18.3	1.719	2.655	8.8	21.2
3 12	12 8.40	− 3 24.1	1.683	2.663	4.4	20.9
3 22	11 59.00	− 2 21.4	1.675	2.671	0.9	20.7
4 1	11 49.80	− 1 17.2	1.697	2.679	5.0	21.0
4 11	11 41.82	− 0 18.7	1.746	2.685	9.2	21.3
4 21	11 35.79	+ 0 28.6	1.819	2.691	12.9	21.5

271940 2004 XE_{191} 3 20.5 166.°54 2.°4/17.8 17

2 11	12 26.63	+ 6 0.3	2.586	3.376	11.5	21.6
2 21	12 21.86	+ 6 37.2	2.501	3.381	8.9	21.4
3 2	12 15.33	+ 7 19.8	2.441	3.386	5.9	21.3
3 12	12 7.55	+ 8 3.9	2.409	3.390	3.1	21.1
3 22	11 59.16	+ 8 44.7	2.407	3.394	2.8	21.1
4 1	11 50.90	+ 9 17.7	2.435	3.396	5.4	21.2
4 11	11 43.51	+ 9 39.5	2.492	3.399	8.4	21.4
4 21	11 37.54	+ 9 48.5	2.574	3.400	11.1	21.6

498237 2007 US_{55} 3 20.5 137.°20 0.°0/20.5 17

2 11	12 23.39	− 2 32.3	2.664	3.434	11.7	22.5
2 21	12 19.29	− 2 5.7	2.578	3.444	9.2	22.4
3 2	12 13.58	− 1 28.6	2.516	3.454	6.2	22.2
3 12	12 6.71	− 0 43.9	2.482	3.464	2.9	22.0
3 22	11 59.30	+ 0 4.4	2.477	3.473	0.5	21.8
4 1	11 52.02	+ 0 51.8	2.503	3.482	3.9	22.1
4 11	11 45.54	+ 1 34.0	2.558	3.490	7.0	22.3
4 21	11 40.35	+ 2 7.7	2.639	3.498	9.8	22.5

2377 Shcheglov 3 20.5 108.°00 0.°5/21.1 18

2 11	12 23.60	− 4 2.8	2.144	2.921	14.0	16.9
2 21	12 19.92	− 3 42.9	2.058	2.927	11.0	16.7
3 2	12 14.24	− 3 9.1	1.994	2.932	7.6	16.5
3 12	12 7.10	− 2 24.5	1.956	2.938	3.7	16.2
3 22	11 59.24	− 1 33.6	1.947	2.943	0.6	16.0
4 1	11 51.51	− 0 42.1	1.966	2.948	4.4	16.3
4 11	11 44.76	+ 0 4.6	2.014	2.953	8.2	16.5
4 21	11 39.61	+ 0 41.8	2.086	2.958	11.5	16.8

388419 2006 XL_{51} 3 20.5 208°.18 6°.4/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.56	+20 41.5	2.644	3.454	10.7	20.7
2 21	12 19.58	+21 53.5	2.572	3.452	8.7	20.5
3 2	12 13.86	+23 2.9	2.526	3.449	7.0	20.4
3 12	12 6.88	+24 3.1	2.508	3.446	6.4	20.4
3 22	11 59.29	+24 48.4	2.517	3.443	7.1	20.4
4 1	11 51.84	+25 14.7	2.553	3.440	8.9	20.5
4 11	11 45.26	+25 20.3	2.613	3.437	10.9	20.7
4 21	11 40.07	+25 5.9	2.695	3.433	12.9	20.8

318642 2005 LA_{41} 3 20.5 285°.73 1°.4/19.3 17

2 11	12 23.76	− 0 7.1	1.665	2.470	16.1	21.4
2 21	12 20.91	+ 0 31.3	1.563	2.452	12.7	21.2
3 2	12 15.45	+ 1 26.4	1.483	2.433	8.6	20.9
3 12	12 7.89	+ 2 33.5	1.428	2.413	4.0	20.6
3 22	11 59.09	+ 3 45.3	1.400	2.394	1.9	20.4
4 1	11 50.20	+ 4 53.3	1.399	2.375	6.7	20.6
4 11	11 42.44	+ 5 49.0	1.423	2.356	11.5	20.8
4 21	11 36.73	+ 6 26.8	1.469	2.337	15.7	21.0

336323 2008 TO_{70} 3 20.5 300°.20 2°.7/17.8 17

2 11	12 23.73	+ 4 54.5	1.962	2.771	13.9	20.9
2 21	12 20.27	+ 5 37.8	1.876	2.767	10.8	20.7
3 2	12 14.62	+ 6 30.3	1.813	2.763	7.2	20.4
3 12	12 7.33	+ 7 26.5	1.776	2.759	3.7	20.2
3 22	11 59.21	+ 8 19.8	1.767	2.755	3.3	20.2
4 1	11 51.19	+ 9 3.8	1.786	2.752	6.6	20.4
4 11	11 44.23	+ 9 33.3	1.832	2.748	10.4	20.6
4 21	11 39.02	+ 9 46.0	1.900	2.745	13.7	20.8

377908 2006 DQ_{174} 3 20.5 164°.33 1°.4/18.9 17

2 11	12 23.74	+ 1 5.8	2.276	3.067	12.8	21.7
2 21	12 19.90	+ 1 49.3	2.190	3.070	10.0	21.5
3 2	12 14.17	+ 2 43.6	2.127	3.073	6.6	21.3
3 12	12 7.06	+ 3 44.1	2.091	3.075	3.0	21.1
3 22	11 59.26	+ 4 45.3	2.085	3.078	1.8	21.0
4 1	11 51.58	+ 5 41.3	2.108	3.080	5.2	21.2
4 11	11 44.82	+ 6 27.1	2.158	3.081	8.7	21.4
4 21	11 39.57	+ 6 59.4	2.234	3.083	11.8	21.6

55621 2002 TQ_{138} 3 20.6 148°.42 3°.0/23.9 18

2 11	12 25.07	−11 22.9	2.536	3.266	13.2	19.2
2 21	12 20.80	−11 33.2	2.441	3.272	10.9	19.0
3 2	12 14.72	−11 28.7	2.368	3.278	8.1	18.8
3 12	12 7.31	−11 10.1	2.321	3.283	5.2	18.6
3 22	11 59.22	−10 39.5	2.303	3.288	3.1	18.5
4 1	11 51.22	−10 0.5	2.314	3.293	4.1	18.6
4 11	11 44.05	− 9 17.9	2.354	3.297	6.9	18.8
4 21	11 38.30	− 8 36.6	2.420	3.302	9.8	19.0

166881 2002 XG_{88} 3 20.6 113°.34 0°.7/19.8 17

2 11	12 26.13	+ 1 0.4	2.532	3.311	12.0	20.5
2 21	12 21.45	+ 1 16.1	2.452	3.325	9.3	20.4
3 2	12 15.03	+ 1 39.9	2.397	3.340	6.2	20.2
3 12	12 7.41	+ 2 8.5	2.370	3.354	2.8	20.0
3 22	11 59.22	+ 2 38.3	2.372	3.367	1.1	19.9
4 1	11 51.23	+ 3 5.0	2.405	3.381	4.3	20.1
4 11	11 44.13	+ 3 25.3	2.466	3.394	7.5	20.4
4 21	11 38.45	+ 3 36.6	2.553	3.406	10.3	20.6

6101 Tomoki 3 20.6 305°.27 1°.1/21.4 18

2 11	12 21.88	− 6 5.6	1.350	2.155	19.3	17.1
2 21	12 20.00	− 5 42.8	1.258	2.142	15.5	16.8
3 2	12 15.14	− 4 55.1	1.184	2.128	10.9	16.5
3 12	12 7.84	− 3 45.3	1.133	2.115	5.6	16.1
3 22	11 59.11	− 2 20.1	1.106	2.102	1.1	15.8
4 1	11 50.33	− 0 49.9	1.105	2.090	6.4	16.1
4 11	11 42.93	+ 0 33.4	1.128	2.078	12.0	16.4
4 21	11 37.98	+ 1 40.2	1.172	2.066	16.9	16.6

462867 2010 VF_{83} 3 20.6 47°.90 5°.4/25.7 18

2 11	12 22.83	−16 14.6	1.566	2.313	19.5	21.0
2 21	12 20.13	−16 25.1	1.491	2.326	16.3	20.8
3 2	12 14.78	−16 8.1	1.434	2.340	12.6	20.6
3 12	12 7.48	−15 23.5	1.399	2.354	8.7	20.4
3 22	11 59.21	−14 14.6	1.388	2.368	5.7	20.2
4 1	11 51.18	−12 49.0	1.403	2.382	6.3	20.3
4 11	11 44.54	−11 17.0	1.444	2.397	9.5	20.5
4 21	11 40.07	− 9 48.8	1.509	2.412	13.2	20.8

351764 2006 DJ_{211} 3 20.6 349°.35 0°.6/20.2 18

2 11	12 20.19	− 2 5.3	1.160	1.991	20.1	20.2
2 21	12 18.95	− 1 41.4	1.083	1.984	16.0	19.9
3 2	12 14.51	− 0 55.2	1.025	1.978	10.9	19.6
3 12	12 7.55	+ 0 8.3	0.988	1.973	5.1	19.3
3 22	11 59.18	+ 1 20.2	0.974	1.970	1.3	19.0
4 1	11 50.94	+ 2 29.3	0.984	1.967	7.3	19.4
4 11	11 44.33	+ 3 24.6	1.016	1.966	13.0	19.7
4 21	11 40.39	+ 3 59.4	1.069	1.965	18.0	19.9

434993 2006 UZ_{210} 3 20.6 177°.34 3°.6/25.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.88	−15 18.7	2.775	3.484	12.7	21.7
2 21	12 18.23	−15 18.6	2.673	3.485	10.6	21.5
3 2	12 12.95	−15 2.1	2.592	3.486	8.2	21.4
3 12	12 6.48	−14 29.7	2.537	3.487	5.6	21.2
3 22	11 59.38	−13 43.5	2.509	3.487	3.7	21.1
4 1	11 52.34	−12 47.0	2.512	3.487	4.2	21.1
4 11	11 46.02	−11 45.2	2.543	3.487	6.5	21.2
4 21	11 40.95	−10 43.4	2.600	3.486	9.0	21.4

466649 2014 WN_{61} 3 20.6 38°.47 3°.8/17.3 18

2 11	12 23.62	+ 5 22.7	1.459	2.287	16.9	21.0
2 21	12 20.72	+ 6 21.3	1.397	2.298	13.0	20.8
3 2	12 15.13	+ 7 31.1	1.356	2.310	8.7	20.6
3 12	12 7.61	+ 8 43.6	1.340	2.323	4.7	20.4
3 22	11 59.20	+ 9 49.5	1.349	2.336	4.5	20.4
4 1	11 51.14	+10 40.1	1.385	2.349	8.3	20.6
4 11	11 44.56	+11 10.0	1.444	2.363	12.4	20.9
4 21	11 40.20	+11 17.5	1.525	2.378	16.0	21.2

29711 1999 AU_5 3 20.6 320°.42 5°.0/15.0 17

2 11	12 23.61	+12 14.7	2.109	2.927	12.8	19.0
2 21	12 20.01	+13 16.2	2.031	2.925	10.0	18.8
3 2	12 14.35	+14 21.1	1.978	2.923	7.1	18.6
3 12	12 7.18	+15 22.4	1.951	2.921	5.1	18.5
3 22	11 59.27	+16 13.3	1.951	2.919	5.7	18.5
4 1	11 51.50	+16 48.0	1.980	2.918	8.2	18.7
4 11	11 44.76	+17 3.2	2.033	2.916	11.2	18.9
4 21	11 39.68	+16 58.3	2.109	2.914	13.9	19.0

63218 2001 AZ_{29} 3 20.6 199°.55 1°.7/22.2 18

2 11	12 28.88	− 6 52.8	2.084	2.840	15.0	19.6
2 21	12 24.25	− 6 49.2	1.983	2.837	12.1	19.4
3 2	12 17.33	− 6 29.9	1.904	2.832	8.6	19.1
3 12	12 8.65	− 5 56.6	1.852	2.827	4.7	18.9
3 22	11 59.01	− 5 12.7	1.827	2.821	1.7	18.7
4 1	11 49.38	− 4 23.5	1.832	2.815	4.6	18.9
4 11	11 40.78	− 3 35.1	1.866	2.807	8.6	19.1
4 21	11 33.97	− 2 53.3	1.925	2.799	12.3	19.3

385230 2000 QO_{109} 3 20.6 196°.18 1°.8/18.3 17

2 11	12 20.93	+ 2 16.8	2.411	3.207	12.0	21.2
2 21	12 17.65	+ 3 11.2	2.322	3.207	9.3	21.0
3 2	12 12.63	+ 4 15.7	2.258	3.206	6.1	20.8
3 12	12 6.34	+ 5 25.4	2.221	3.205	2.9	20.6
3 22	11 59.41	+ 6 34.7	2.213	3.204	2.3	20.5
4 1	11 52.58	+ 7 37.6	2.235	3.203	5.3	20.7
4 11	11 46.55	+ 8 29.3	2.285	3.202	8.6	20.9
4 21	11 41.90	+ 9 6.5	2.359	3.201	11.5	21.1

264552 2001 SL_{229} 3 20.6 149°.49 1°.3/19.1 16

2 11	12 27.20	+ 1 39.6	2.283	3.068	13.0	22.1
2 21	12 22.52	+ 2 13.9	2.201	3.078	10.1	21.9
3 2	12 15.90	+ 2 57.8	2.142	3.087	6.7	21.7
3 12	12 7.87	+ 3 47.0	2.111	3.095	3.1	21.5
3 22	11 59.16	+ 4 36.3	2.110	3.103	1.8	21.4
4 1	11 50.63	+ 5 20.4	2.138	3.111	5.1	21.6
4 11	11 43.10	+ 5 54.9	2.195	3.117	8.6	21.9
4 21	11 37.15	+ 6 16.8	2.277	3.123	11.7	22.1

5269 Paustovskij 3 20.6 214°.40 0°.5/20.1 18

2 11	12 28.08	− 1 47.9	1.756	2.545	16.1	18.5
2 21	12 24.05	− 1 17.4	1.661	2.539	12.7	18.3
3 2	12 17.43	− 0 30.7	1.588	2.532	8.7	18.0
3 12	12 8.77	+ 0 28.1	1.541	2.524	4.0	17.7
3 22	11 59.00	+ 1 32.6	1.520	2.516	1.1	17.5
4 1	11 49.25	+ 2 35.2	1.529	2.507	5.9	17.8
4 11	11 40.70	+ 3 28.3	1.564	2.498	10.5	18.0
4 21	11 34.22	+ 4 6.5	1.622	2.488	14.6	18.2

27169 1999 AS_{23} 3 20.6 247°.69 2°.7/17.2 18

2 11	12 21.06	+ 4 24.7	2.340	3.143	12.1	17.9
2 21	12 17.87	+ 5 30.8	2.246	3.135	9.4	17.7
3 2	12 12.86	+ 6 46.8	2.178	3.128	6.2	17.4
3 12	12 6.49	+ 8 6.9	2.137	3.120	3.3	17.2
3 22	11 59.41	+ 9 24.9	2.126	3.112	3.2	17.2
4 1	11 52.38	+10 34.0	2.144	3.104	6.2	17.4
4 11	11 46.16	+11 29.2	2.189	3.095	9.4	17.6
4 21	11 41.37	+12 7.2	2.258	3.087	12.4	17.8

422263 2014 SJ_{144} 3 20.6 115°.26 0°.3/20.3 18

2 11	12 27.06	− 2 56.3	2.265	3.035	13.5	22.1
2 21	12 22.32	− 2 11.7	2.193	3.060	10.5	21.9
3 2	12 15.69	− 1 14.0	2.145	3.084	7.1	21.7
3 12	12 7.74	− 0 7.7	2.124	3.107	3.3	21.5
3 22	11 59.22	+ 1 1.9	2.133	3.129	0.7	21.3
4 1	11 50.98	+ 2 8.6	2.173	3.150	4.5	21.7
4 11	11 43.77	+ 3 6.8	2.241	3.171	8.0	21.9
4 21	11 38.16	+ 3 52.7	2.335	3.191	11.1	22.2

337673 2001 TD_{184} 3 20.6 157°.21 2°.0/23.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.57	−10 13.2	2.574	3.316	12.8	21.3
2 21	12 18.06	− 9 52.7	2.477	3.320	10.4	21.1
3 2	12 12.87	− 9 16.5	2.404	3.323	7.5	21.0
3 12	12 6.46	− 8 26.4	2.356	3.326	4.4	20.8
3 22	11 59.43	− 7 25.9	2.338	3.329	2.1	20.6
4 1	11 52.48	− 6 19.7	2.349	3.332	3.7	20.7
4 11	11 46.31	− 5 13.4	2.389	3.334	6.8	20.9
4 21	11 41.47	− 4 12.3	2.456	3.336	9.7	21.1

338972 2004 FG_{65} 3 20.6 13°.54 4°.3/17.2 17

2 11	12 30.48	+12 4.4	1.946	2.755	14.0	20.1
2 21	12 25.45	+12 16.7	1.869	2.757	11.0	19.9
3 2	12 18.05	+12 29.8	1.814	2.759	7.7	19.7
3 12	12 8.94	+12 38.3	1.786	2.762	4.8	19.6
3 22	11 59.03	+12 37.0	1.786	2.765	4.8	19.6
4 1	11 49.38	+12 22.1	1.814	2.769	7.6	19.7
4 11	11 41.00	+11 52.0	1.869	2.773	10.9	20.0
4 21	11 34.59	+11 7.1	1.947	2.777	14.0	20.2

90321 2003 FZ_{67} 3 20.6 209°.30 4°.8/15.9 17

2 11	12 30.20	+13 6.9	2.207	3.010	12.8	19.7
2 21	12 25.07	+13 47.9	2.121	3.005	10.1	19.5
3 2	12 17.75	+14 30.5	2.059	3.000	7.2	19.3
3 12	12 8.81	+15 8.7	2.024	2.994	5.0	19.1
3 22	11 59.05	+15 36.4	2.018	2.988	5.4	19.1
4 1	11 49.43	+15 48.9	2.041	2.981	7.9	19.3
4 11	11 40.89	+15 43.5	2.090	2.974	10.9	19.5
4 21	11 34.11	+15 20.3	2.163	2.966	13.7	19.6

156193 2001 UC_{6} 3 20.6 243°.89 1°.7/22.1 17

2 11	12 26.39	− 8 2.3	1.813	2.580	16.5	21.4
2 21	12 22.83	− 7 39.6	1.703	2.563	13.4	21.2
3 2	12 16.71	− 6 55.6	1.615	2.546	9.6	20.9
3 12	12 8.51	− 5 52.2	1.551	2.528	5.3	20.6
3 22	11 59.08	− 4 33.9	1.515	2.509	1.7	20.3
4 1	11 49.51	− 3 8.4	1.507	2.490	5.3	20.5
4 11	11 41.00	− 1 44.9	1.526	2.470	9.9	20.7
4 21	11 34.47	− 0 31.6	1.569	2.449	14.2	20.9

471166 2010 HK_{107} 3 20.6 273°.87 3°.6/16.0 17

2 11	12 20.72	+ 7 3.6	2.269	3.080	12.2	21.4
2 21	12 17.69	+ 8 16.9	2.178	3.071	9.4	21.2
3 2	12 12.78	+ 9 38.8	2.113	3.062	6.4	20.9
3 12	12 6.48	+11 2.7	2.075	3.053	3.9	20.8
3 22	11 59.44	+12 21.8	2.065	3.044	4.2	20.8
4 1	11 52.45	+13 29.1	2.085	3.035	7.0	20.9
4 11	11 46.31	+14 19.8	2.131	3.026	10.2	21.1
4 21	11 41.63	+14 51.2	2.200	3.017	13.0	21.3

94671 2001 XW_{17} 3 20.6 15°.31 2°.2/22.1 18

2 11	12 26.20	− 5 47.1	1.299	2.101	20.1	19.5
2 21	12 23.33	− 6 4.1	1.223	2.102	16.2	19.2
3 2	12 17.32	− 6 0.8	1.164	2.105	11.5	19.0
3 12	12 8.83	− 5 38.7	1.128	2.107	6.3	18.7
3 22	11 59.04	− 5 2.4	1.116	2.111	2.2	18.4
4 1	11 49.43	− 4 19.2	1.130	2.115	6.2	18.7
4 11	11 41.45	− 3 38.1	1.167	2.119	11.4	19.0
4 21	11 36.10	− 3 6.3	1.226	2.124	16.0	19.2

40276 1999 JR_{19} 3 20.6 276°.80 0°.3/20.4 18

2 11	12 28.60	− 0 42.0	1.592	2.390	17.1	18.3
2 21	12 24.91	− 0 38.7	1.491	2.373	13.6	18.0
3 2	12 18.32	− 0 21.2	1.410	2.355	9.4	17.7
3 12	12 9.34	+ 0 7.3	1.353	2.337	4.5	17.4
3 22	11 58.94	+ 0 41.7	1.323	2.319	0.9	17.1
4 1	11 48.40	+ 1 15.3	1.320	2.300	6.3	17.4
4 11	11 39.10	+ 1 41.2	1.342	2.282	11.4	17.6
4 21	11 32.08	+ 1 54.4	1.387	2.264	16.0	17.9

4100 Sumiko 3 20.6 127°.33 4°.8/14.6 18

2 11	12 24.27	+13 24.5	2.395	3.206	11.6	16.8
2 21	12 20.21	+14 28.6	2.325	3.214	9.1	16.7
3 2	12 14.31	+15 34.3	2.281	3.222	6.6	16.5
3 12	12 7.13	+16 35.4	2.264	3.230	4.9	16.4
3 22	11 59.35	+17 25.8	2.275	3.237	5.5	16.5
4 1	11 51.77	+18 0.6	2.315	3.244	7.7	16.6
4 11	11 45.12	+18 17.4	2.381	3.251	10.2	16.8
4 21	11 39.97	+18 15.7	2.469	3.258	12.6	17.0

322346 2011 HT_{83} 3 20.6 268°.69 2°.0/18.5 17

2 11	12 23.79	+ 2 58.8	2.004	2.807	13.9	20.7
2 21	12 20.30	+ 3 38.5	1.914	2.802	10.8	20.5
3 2	12 14.66	+ 4 28.8	1.848	2.797	7.2	20.3
3 12	12 7.40	+ 5 24.7	1.808	2.792	3.5	20.0
3 22	11 59.30	+ 6 19.9	1.796	2.787	2.5	20.0
4 1	11 51.28	+ 7 8.1	1.812	2.782	6.1	20.2
4 11	11 44.27	+ 7 43.8	1.855	2.777	9.9	20.4
4 21	11 38.98	+ 8 3.9	1.921	2.772	13.3	20.6

90099 2002 XL_{10} 3 20.6 28°.25 8°.6/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.20	+16 31.8	1.478	2.319	16.0	18.6
2 21	12 20.53	+18 19.8	1.422	2.324	12.8	18.5
3 2	12 15.10	+20 8.5	1.390	2.331	9.9	18.3
3 12	12 7.66	+21 45.6	1.381	2.337	8.6	18.2
3 22	11 59.28	+22 59.7	1.398	2.345	9.8	18.3
4 1	11 51.24	+23 43.0	1.438	2.352	12.6	18.5
4 11	11 44.72	+23 53.1	1.500	2.361	15.7	18.7
4 21	11 40.48	+23 32.2	1.580	2.369	18.5	18.9

503775 2016 QD_{55} 3 20.6 236°.56 0°.9/19.3 17

2 11	12 21.07	+ 0 5.3	2.759	3.541	11.0	21.6
2 21	12 17.60	+ 0 47.8	2.656	3.531	8.6	21.4
3 2	12 12.55	+ 1 40.3	2.577	3.521	5.7	21.2
3 12	12 6.34	+ 2 39.4	2.526	3.510	2.6	21.0
3 22	11 59.50	+ 3 40.6	2.505	3.499	1.3	20.9
4 1	11 52.68	+ 4 38.9	2.514	3.488	4.4	21.1
4 11	11 46.54	+ 5 29.7	2.552	3.476	7.5	21.3
4 21	11 41.59	+ 6 9.7	2.616	3.464	10.3	21.4

358065 2006 HH_{78} 3 20.6 326°.51 4°.1/17.7 18

2 11	12 26.07	+ 6 32.6	1.322	2.154	18.1	20.4
2 21	12 23.27	+ 7 8.8	1.242	2.145	14.2	20.1
3 2	12 17.32	+ 7 55.9	1.182	2.136	9.6	19.8
3 12	12 8.87	+ 8 46.2	1.144	2.128	5.2	19.6
3 22	11 59.06	+ 9 30.4	1.132	2.120	4.8	19.5
4 1	11 49.37	+ 9 59.6	1.144	2.113	9.1	19.7
4 11	11 41.25	+10 7.6	1.180	2.106	14.0	20.0
4 21	11 35.73	+ 9 52.7	1.235	2.100	18.3	20.2

184309 2005 EC_{260} 3 20.6 37°.15 0°.4/20.2 18

2 11	12 23.37	− 2 35.8	1.343	2.157	18.9	20.5
2 21	12 20.83	− 2 3.8	1.275	2.166	14.8	20.2
3 2	12 15.41	− 1 11.7	1.227	2.176	10.0	20.0
3 12	12 7.85	− 0 5.3	1.202	2.187	4.6	19.7
3 22	11 59.25	+ 1 7.1	1.203	2.199	1.1	19.5
4 1	11 50.97	+ 2 15.6	1.229	2.210	6.5	19.9
4 11	11 44.26	+ 3 11.4	1.279	2.223	11.5	20.2
4 21	11 39.92	+ 3 48.8	1.351	2.236	15.8	20.5

498610 2008 RY_{79} 3 20.6 174°.11 1°.0/21.8 17

2 11	12 24.65	− 6 1.3	2.585	3.340	12.4	23.2
2 21	12 20.43	− 5 40.9	2.488	3.343	9.9	23.0
3 2	12 14.47	− 5 7.4	2.415	3.345	6.9	22.9
3 12	12 7.24	− 4 23.3	2.369	3.347	3.6	22.6
3 22	11 59.36	− 3 32.0	2.353	3.348	1.0	22.4
4 1	11 51.56	− 2 38.2	2.367	3.349	3.8	22.6
4 11	11 44.56	− 1 47.0	2.410	3.349	7.1	22.9
4 21	11 38.93	− 1 2.6	2.480	3.349	10.1	23.0

386233 2007 YE_{72} 3 20.6 113°.75 1°.5/22.3 17

2 11	12 24.53	− 6 28.0	2.520	3.275	12.7	21.4
2 21	12 20.35	− 6 30.3	2.429	3.282	10.2	21.3
3 2	12 14.42	− 6 20.4	2.362	3.289	7.2	21.1
3 12	12 7.22	− 5 59.9	2.321	3.296	4.0	20.9
3 22	11 59.38	− 5 31.7	2.309	3.303	1.6	20.7
4 1	11 51.64	− 4 59.4	2.327	3.310	3.8	20.9
4 11	11 44.75	− 4 27.5	2.374	3.316	7.0	21.1
4 21	11 39.25	− 3 59.8	2.447	3.323	9.9	21.3

172459 2003 RO_{5} 3 20.6 178°.10 0°.7/19.9 18

2 11	12 28.45	− 0 42.5	2.044	2.826	14.4	21.1
2 21	12 23.86	− 0 14.2	1.954	2.828	11.3	20.9
3 2	12 17.03	+ 0 26.8	1.887	2.830	7.6	20.7
3 12	12 8.52	+ 1 16.3	1.847	2.831	3.5	20.4
3 22	11 59.15	+ 2 9.2	1.835	2.831	1.1	20.2
4 1	11 49.90	+ 2 59.1	1.853	2.830	5.3	20.5
4 11	11 41.73	+ 3 40.5	1.899	2.829	9.2	20.8
4 21	11 35.35	+ 4 9.3	1.969	2.827	12.8	21.0

341821 2007 YS_{52} 3 20.6 72°.08 0°.7/21.3 17

2 11	12 24.44	− 3 54.8	2.273	3.045	13.4	21.2
2 21	12 20.39	− 3 46.0	2.196	3.062	10.6	21.0
3 2	12 14.47	− 3 25.1	2.142	3.078	7.3	20.8
3 12	12 7.23	− 2 54.6	2.114	3.094	3.6	20.6
3 22	11 59.39	− 2 18.5	2.115	3.111	0.7	20.4
4 1	11 51.75	− 1 41.4	2.145	3.127	4.1	20.7
4 11	11 45.07	− 1 7.9	2.203	3.143	7.6	20.9
4 21	11 39.92	− 0 41.9	2.287	3.159	10.6	21.2

372782 2010 FQ_{43} 3 20.6 83°.83 3°.0/17.6 18

2 11	12 25.79	+ 5 33.4	1.971	2.777	14.0	20.7
2 21	12 21.65	+ 6 24.3	1.907	2.797	10.7	20.5
3 2	12 15.40	+ 7 23.0	1.866	2.816	7.1	20.3
3 12	12 7.68	+ 8 23.3	1.852	2.834	3.8	20.2
3 22	11 59.33	+ 9 18.4	1.867	2.853	3.5	20.2
4 1	11 51.27	+10 2.4	1.909	2.872	6.6	20.4
4 11	11 44.39	+10 31.0	1.979	2.890	10.0	20.6
4 21	11 39.27	+10 42.7	2.071	2.908	13.0	20.9

434146 2002 RH_{153} 3 20.6 140°.89 2°.9/24.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.41	−12 57.8	2.491	3.219	13.5	21.2
2 21	12 18.79	−12 42.3	2.397	3.227	11.1	21.0
3 2	12 13.42	−12 9.3	2.325	3.234	8.3	20.9
3 12	12 6.77	−11 20.1	2.278	3.240	5.3	20.7
3 22	11 59.48	−10 17.8	2.260	3.247	3.0	20.5
4 1	11 52.29	− 9 7.3	2.272	3.253	4.0	20.6
4 11	11 45.94	− 7 54.8	2.312	3.258	6.9	20.8
4 21	11 40.98	− 6 45.9	2.379	3.264	9.8	21.0

355799 2008 SO_{159} 3 20.6 191°.64 0°.4/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.91	− 1 11.5	1.865	2.646	15.6	21.6
2 21	12 26.08	− 0 51.6	1.772	2.645	12.3	21.4
3 2	12 18.71	− 0 18.1	1.701	2.643	8.4	21.1
3 12	12 9.39	+ 0 25.5	1.657	2.640	3.9	20.9
3 22	11 59.04	+ 1 13.6	1.640	2.636	0.9	20.6
4 1	11 48.76	+ 1 59.9	1.653	2.632	5.6	20.9
4 11	11 39.68	+ 2 38.0	1.694	2.626	10.0	21.2
4 21	11 32.63	+ 3 3.7	1.758	2.620	13.8	21.4

32757 1981 EP_{18} 3 20.6 321°.65 0°.3/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.40	− 4 47.1	2.121	2.905	13.9	18.8
2 21	12 16.83	− 4 9.9	2.023	2.895	11.0	18.6
3 2	12 12.32	− 3 16.3	1.946	2.887	7.6	18.4
3 12	12 6.33	− 2 9.9	1.896	2.878	3.7	18.1
3 22	11 59.55	− 0 55.7	1.874	2.870	0.5	17.9
4 1	11 52.80	+ 0 19.5	1.880	2.862	4.6	18.2
4 11	11 46.92	+ 1 28.8	1.914	2.854	8.5	18.4
4 21	11 42.57	+ 2 26.6	1.972	2.847	12.0	18.6

447709 2007 EE_{81} 3 20.6 18°.72 0°.7/20.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.98	− 1 13.2	1.074	1.907	21.3	21.3
2 21	12 22.06	− 0 57.9	1.009	1.911	16.8	21.0
3 2	12 16.66	− 0 21.8	0.962	1.916	11.4	20.7
3 12	12 8.59	+ 0 29.5	0.936	1.921	5.3	20.4
3 22	11 59.17	+ 1 27.2	0.932	1.928	1.4	20.2
4 1	11 50.08	+ 2 20.5	0.952	1.936	7.5	20.6
4 11	11 42.89	+ 2 59.7	0.995	1.944	13.3	20.9
4 21	11 38.59	+ 3 19.2	1.057	1.953	18.2	21.2

416898 2005 QU_{166} 3 20.6 148°.17 4°.8/26.1 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.17	−17 31.2	2.514	3.204	14.3	22.4
2 21	12 23.29	−17 49.8	2.420	3.216	12.1	22.3
3 2	12 16.47	−17 50.3	2.347	3.227	9.5	22.1
3 12	12 8.22	−17 32.1	2.299	3.237	6.9	22.0
3 22	11 59.25	−16 56.7	2.279	3.247	5.0	21.9
4 1	11 50.38	−16 7.3	2.288	3.256	5.2	21.9
4 11	11 42.42	−15 9.5	2.326	3.264	7.3	22.0
4 21	11 36.01	−14 9.4	2.391	3.272	9.9	22.2

296317 2009 DL_{140} 3 20.6 224°.21 1°.9/22.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.87	− 8 23.8	2.768	3.510	12.0	21.5
2 21	12 19.81	− 8 22.4	2.659	3.502	9.7	21.3
3 2	12 14.09	− 8 8.4	2.572	3.493	7.0	21.1
3 12	12 7.10	− 7 42.9	2.513	3.483	4.1	20.9
3 22	11 59.43	− 7 8.3	2.482	3.474	1.9	20.7
4 1	11 51.75	− 6 28.3	2.482	3.463	3.6	20.8
4 11	11 44.77	− 5 47.1	2.511	3.453	6.6	21.0
4 21	11 39.03	− 5 8.9	2.566	3.442	9.5	21.2

452713 2005 YP_{136} 3 20.6 169°.64 3°.5/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.76	+ 6 9.3	1.876	2.678	14.7	22.6
2 21	12 25.05	+ 7 8.2	1.796	2.683	11.4	22.4
3 2	12 17.91	+ 8 16.2	1.740	2.687	7.7	22.2
3 12	12 8.97	+ 9 26.6	1.710	2.691	4.3	22.0
3 22	11 59.13	+10 31.3	1.709	2.693	4.1	22.0
4 1	11 49.48	+11 23.2	1.737	2.695	7.5	22.2
4 11	11 41.07	+11 57.2	1.791	2.696	11.2	22.4
4 21	11 34.66	+12 11.3	1.868	2.696	14.6	22.6

417454 2006 QL_{14} 3 20.6 188°.62 0°.2/20.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.21	− 2 53.9	2.269	3.037	13.6	22.3
2 21	12 23.49	− 2 32.9	2.172	3.036	10.7	22.1
3 2	12 16.70	− 1 59.2	2.098	3.035	7.3	21.9
3 12	12 8.37	− 1 15.8	2.051	3.033	3.5	21.6
3 22	11 59.22	− 0 26.9	2.033	3.029	0.5	21.4
4 1	11 50.14	+ 0 21.9	2.046	3.026	4.5	21.7
4 11	11 42.00	+ 1 5.5	2.087	3.021	8.3	21.9
4 21	11 35.49	+ 1 39.5	2.155	3.016	11.7	22.1

52398 1993 RT_{7} 3 20.6 96°.93 0°.8/21.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.16	− 4 28.1	1.841	2.619	15.9	19.2
2 21	12 22.99	− 4 16.3	1.764	2.633	12.6	19.0
3 2	12 16.48	− 3 49.1	1.709	2.647	8.7	18.8
3 12	12 8.27	− 3 9.3	1.680	2.660	4.4	18.5
3 22	11 59.25	− 2 22.1	1.678	2.673	0.9	18.3
4 1	11 50.47	− 1 33.5	1.704	2.687	4.9	18.6
4 11	11 42.93	− 0 49.9	1.758	2.700	9.0	18.9
4 21	11 37.32	− 0 16.3	1.836	2.712	12.7	19.1

231461 2007 MC_{26} 3 20.6 233°.15 6°.7/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 28.29	+13 43.1	1.774	2.594	14.7	20.7
2 21	12 24.28	+15 9.7	1.690	2.582	11.7	20.5
3 2	12 17.64	+16 41.7	1.629	2.571	8.6	20.3
3 12	12 8.94	+18 9.1	1.594	2.558	6.8	20.2
3 22	11 59.12	+19 22.0	1.586	2.545	7.7	20.2
4 1	11 49.36	+20 12.0	1.605	2.531	10.7	20.3
4 11	11 40.85	+20 34.5	1.648	2.517	14.1	20.5
4 21	11 34.45	+20 29.7	1.711	2.502	17.2	20.7

455829 2005 TQ_{25} 3 20.6 162°.92 0°.5/21.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.75	− 4 50.6	1.805	2.580	16.3	22.6
2 21	12 24.39	− 4 20.1	1.719	2.586	12.9	22.4
3 2	12 17.54	− 3 31.7	1.655	2.592	8.9	22.2
3 12	12 8.82	− 2 29.0	1.616	2.597	4.4	21.9
3 22	11 59.15	− 1 18.1	1.605	2.601	0.7	21.6
4 1	11 49.64	− 0 6.5	1.623	2.605	5.3	22.0
4 11	11 41.37	+ 0 57.8	1.669	2.607	9.7	22.2
4 21	11 35.13	+ 1 49.0	1.739	2.609	13.6	22.5

425065 2009 RV_{15} 3 20.6 153°.47 0°.9/19.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.55	+ 0 47.0	2.260	3.041	13.2	22.5
2 21	12 22.88	+ 1 10.5	2.174	3.049	10.3	22.3
3 2	12 16.21	+ 1 43.9	2.112	3.056	6.9	22.1
3 12	12 8.10	+ 2 23.3	2.078	3.062	3.2	21.8
3 22	11 59.28	+ 3 4.1	2.073	3.068	1.3	21.7
4 1	11 50.61	+ 3 41.3	2.098	3.073	4.9	22.0
4 11	11 42.94	+ 4 10.4	2.151	3.078	8.5	22.2
4 21	11 36.88	+ 4 28.4	2.229	3.082	11.6	22.4

147300 2003 AQ_{59} 3 20.6 37°.86 6°.3/24.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 31.13	−13 33.3	1.670	2.410	18.7	19.0
2 21	12 26.67	−14 45.7	1.585	2.415	15.8	18.8
3 2	12 19.35	−15 39.6	1.520	2.421	12.3	18.6
3 12	12 9.79	−16 12.1	1.477	2.427	8.8	18.4
3 22	11 58.98	−16 22.6	1.460	2.434	6.4	18.2
4 1	11 48.25	−16 13.3	1.470	2.441	7.1	18.3
4 11	11 38.89	−15 50.4	1.505	2.448	10.2	18.5
4 21	11 31.85	−15 21.3	1.564	2.455	13.6	18.7

498732 2008 TL_{135} 3 20.6 186°.25 0°.1/20.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.17	− 2 32.6	2.381	3.154	12.9	22.4
2 21	12 21.01	− 2 14.1	2.286	3.154	10.1	22.2
3 2	12 14.96	− 1 44.0	2.215	3.153	6.9	22.0
3 12	12 7.53	− 1 5.1	2.170	3.152	3.3	21.8
3 22	11 59.37	− 0 21.5	2.155	3.151	0.5	21.6
4 1	11 51.29	+ 0 22.0	2.169	3.149	4.3	21.9
4 11	11 44.08	+ 1 0.4	2.212	3.147	7.8	22.1
4 21	11 38.34	+ 1 30.2	2.281	3.145	11.0	22.3

138475 2000 JD_{84} 3 20.6 75°.06 2°.5/23.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.93	−11 56.8	1.703	2.464	17.6	19.0
2 21	12 19.90	−11 18.1	1.629	2.481	14.3	18.8
3 2	12 14.48	−10 14.2	1.575	2.499	10.3	18.6
3 12	12 7.34	− 8 48.3	1.544	2.516	6.0	18.4
3 22	11 59.41	− 7 7.0	1.541	2.533	2.6	18.2
4 1	11 51.75	− 5 19.6	1.566	2.551	4.9	18.4
4 11	11 45.37	− 3 36.4	1.618	2.568	9.0	18.7
4 21	11 40.95	− 2 5.8	1.695	2.585	12.8	19.0

199527 2006 DT_{179} 3 20.6 93°.90 0°.4/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.84	− 0 56.2	2.004	2.791	14.4	20.4
2 21	12 21.80	− 0 38.2	1.924	2.800	11.3	20.2
3 2	12 15.61	− 0 8.3	1.866	2.809	7.6	19.9
3 12	12 7.85	+ 0 30.0	1.834	2.818	3.5	19.7
3 22	11 59.34	+ 1 11.7	1.830	2.826	0.8	19.5
4 1	11 51.01	+ 1 51.1	1.856	2.835	5.0	19.8
4 11	11 43.78	+ 2 23.1	1.908	2.843	8.9	20.1
4 21	11 38.30	+ 2 44.2	1.985	2.852	12.3	20.3

502197 2015 BG_{70} 3 20.6 200°.18 3°.4/24.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.71	−13 31.3	2.493	3.211	13.7	22.5
2 21	12 21.48	−13 32.6	2.386	3.207	11.4	22.3
3 2	12 15.34	−13 16.9	2.300	3.203	8.7	22.1
3 12	12 7.74	−12 44.5	2.240	3.197	5.7	21.9
3 22	11 59.36	−11 57.5	2.209	3.191	3.6	21.8
4 1	11 50.98	−10 59.9	2.207	3.185	4.4	21.8
4 11	11 43.41	− 9 57.5	2.234	3.177	7.2	22.0
4 21	11 37.31	− 8 56.1	2.287	3.169	10.3	22.2

333699 2008 WU_{7} 3 20.6 122°.28 1°.2/19.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.80	+ 1 12.4	2.209	2.999	13.2	21.6
2 21	12 20.79	+ 1 43.9	2.127	3.007	10.2	21.4
3 2	12 14.83	+ 2 25.4	2.069	3.014	6.8	21.2
3 12	12 7.46	+ 3 12.7	2.037	3.022	3.1	21.0
3 22	11 59.42	+ 4 0.8	2.035	3.029	1.6	20.9
4 1	11 51.54	+ 4 44.2	2.062	3.036	5.1	21.1
4 11	11 44.63	+ 5 18.2	2.116	3.043	8.6	21.3
4 21	11 39.30	+ 5 39.9	2.195	3.049	11.8	21.5

379716 2011 GY_{28} 3 20.6 152°.65 2°.2/18.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 24.69	+ 3 32.3	2.006	2.808	13.9	21.5
2 21	12 20.96	+ 4 13.4	1.923	2.810	10.8	21.3
3 2	12 15.09	+ 5 4.4	1.863	2.811	7.2	21.1
3 12	12 7.64	+ 6 0.0	1.829	2.813	3.5	20.9
3 22	11 59.39	+ 6 54.0	1.823	2.814	2.7	20.8
4 1	11 51.29	+ 7 40.1	1.846	2.815	6.2	21.1
4 11	11 44.24	+ 8 13.2	1.896	2.816	9.9	21.3
4 21	11 38.91	+ 8 30.6	1.969	2.817	13.2	21.5

337640 2001 TJ_{115} 3 20.6 129°.39 4°.3/26.9 17

2 11	12 22.55	−19 30.9	2.951	3.629	12.6	20.8
2 21	12 18.63	−19 26.7	2.858	3.643	10.7	20.7
3 2	12 13.18	−19 5.1	2.785	3.656	8.5	20.5
3 12	12 6.64	−18 26.1	2.738	3.670	6.2	20.4
3 22	11 59.57	−17 31.7	2.718	3.683	4.5	20.3
4 1	11 52.62	−16 25.4	2.728	3.695	4.5	20.3
4 11	11 46.40	−15 12.3	2.767	3.707	6.2	20.4
4 21	11 41.42	−13 58.0	2.834	3.719	8.4	20.6

19499 Eugenybiryukov 3 20.6 358°.95 1°.3/22.0 18

2 11	12 18.91	− 8 51.6	1.678	2.461	17.0	18.1
2 21	12 16.95	− 8 3.5	1.590	2.460	13.7	17.8
3 2	12 12.65	− 6 50.7	1.523	2.459	9.6	17.6
3 12	12 6.57	− 5 17.0	1.480	2.459	5.1	17.3
3 22	11 59.57	− 3 29.5	1.463	2.459	1.3	17.1
4 1	11 52.67	− 1 38.1	1.474	2.459	5.1	17.3
4 11	11 46.91	+ 0 6.5	1.512	2.460	9.7	17.6
4 21	11 43.05	+ 1 35.8	1.574	2.462	13.7	17.8

459584 2013 GE_{123} 3 20.6 298°.04 0°.3/20.4 17

2 11	12 23.74	− 2 26.3	1.476	2.283	17.8	21.6
2 21	12 21.30	− 2 3.7	1.378	2.265	14.2	21.3
3 2	12 15.99	− 1 21.8	1.299	2.247	9.8	21.0
3 12	12 8.33	− 0 24.2	1.245	2.229	4.7	20.6
3 22	11 59.26	+ 0 42.5	1.215	2.211	0.9	20.3
4 1	11 50.08	+ 1 49.2	1.212	2.194	6.5	20.6
4 11	11 42.16	+ 2 46.4	1.234	2.177	11.9	20.9
4 21	11 36.54	+ 3 27.3	1.276	2.160	16.6	21.1

146095 2000 OR_{12} 3 20.6 268°.51 7°.1/26.7 17

2 11	12 27.14	−19 9.4	2.008	2.708	17.1	20.1
2 21	12 23.40	−20 1.6	1.895	2.692	14.9	19.9
3 2	12 17.14	−20 33.8	1.801	2.676	12.2	19.6
3 12	12 8.81	−20 42.7	1.730	2.659	9.4	19.4
3 22	11 59.19	−20 27.3	1.684	2.643	7.4	19.3
4 1	11 49.36	−19 49.4	1.664	2.626	7.5	19.2
4 11	11 40.48	−18 54.8	1.671	2.608	9.7	19.3
4 21	11 33.50	−17 51.4	1.702	2.591	12.8	19.5

79902 1999 BY_{10} 3 20.6 78°.88 1°.8/22.5 17

2 11	12 25.21	− 7 6.4	2.162	2.922	14.4	20.1
2 21	12 21.15	− 7 6.5	2.082	2.937	11.5	19.9
3 2	12 15.09	− 6 52.0	2.023	2.951	8.2	19.8
3 12	12 7.60	− 6 24.7	1.991	2.966	4.5	19.6
3 22	11 59.43	− 5 48.1	1.987	2.980	1.8	19.4
4 1	11 51.44	− 5 7.0	2.012	2.995	4.2	19.6
4 11	11 44.47	− 4 26.8	2.065	3.009	7.7	19.8
4 21	11 39.13	− 3 52.1	2.143	3.023	10.9	20.0

196677 2003 ST_{60} 3 20.6 42°.95 1°.4/21.9 18

2 11	12 24.17	− 5 50.6	1.969	2.743	15.1	20.0
2 21	12 20.66	− 5 44.2	1.880	2.745	12.1	19.8
3 2	12 14.95	− 5 22.1	1.813	2.747	8.5	19.6
3 12	12 7.61	− 4 46.8	1.771	2.750	4.5	19.3
3 22	11 59.42	− 4 2.1	1.757	2.752	1.4	19.1
4 1	11 51.34	− 3 13.8	1.771	2.754	4.6	19.3
4 11	11 44.31	− 2 28.2	1.812	2.757	8.6	19.6
4 21	11 39.04	− 1 50.3	1.878	2.760	12.2	19.8

463726 2014 QA_{307} 3 20.6 239°.04 0°.0/20.6 16

2 11	12 29.72	− 1 24.4	1.728	2.516	16.4	21.9
2 21	12 25.48	− 1 19.2	1.630	2.506	13.0	21.6
3 2	12 18.53	− 1 0.2	1.554	2.496	9.0	21.3
3 12	12 9.44	− 0 30.4	1.503	2.486	4.3	21.0
3 22	11 59.12	+ 0 5.3	1.479	2.475	0.7	20.7
4 1	11 48.77	+ 0 40.7	1.483	2.464	5.8	21.1
4 11	11 39.64	+ 1 9.5	1.514	2.452	10.5	21.3
4 21	11 32.66	+ 1 27.0	1.568	2.440	14.7	21.5

498717 2008 TO_{104} 3 20.6 251°.76 0°.9/21.5 17

2 11	12 24.08	− 4 59.8	2.117	2.890	14.2	22.0
2 21	12 20.52	− 4 45.7	2.016	2.882	11.4	21.8
3 2	12 14.85	− 4 16.7	1.938	2.873	7.9	21.6
3 12	12 7.58	− 3 35.4	1.885	2.865	4.1	21.3
3 22	11 59.43	− 2 45.7	1.861	2.856	0.9	21.1
4 1	11 51.29	− 1 53.3	1.865	2.848	4.5	21.3
4 11	11 44.08	− 1 4.2	1.897	2.839	8.5	21.5
4 21	11 38.49	− 0 23.6	1.954	2.830	12.0	21.7

234238 2000 SL_{285} 3 20.6 225°.83 3°.7/24.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 24.21	−14 44.1	2.400	3.118	14.2	21.3
2 21	12 20.46	−14 37.4	2.287	3.107	11.9	21.1
3 2	12 14.75	−14 11.5	2.196	3.096	9.1	20.9
3 12	12 7.52	−13 26.7	2.129	3.084	6.1	20.7
3 22	11 59.44	−12 25.2	2.090	3.072	3.8	20.5
4 1	11 51.33	−11 11.5	2.080	3.059	4.6	20.5
4 11	11 44.02	− 9 52.4	2.099	3.045	7.5	20.7
4 21	11 38.20	− 8 34.5	2.145	3.031	10.7	20.8

416977 2005 TF_{48} 3 20.6 165°.44 4°.4/16.5 18

2 11	12 31.29	+11 53.5	2.162	2.962	13.1	21.3
2 21	12 25.90	+12 29.6	2.083	2.967	10.2	21.1
3 2	12 18.31	+13 7.9	2.028	2.970	7.2	20.9
3 12	12 9.13	+13 42.3	2.001	2.974	4.7	20.8
3 22	11 59.20	+14 7.1	2.002	2.976	4.9	20.8
4 1	11 49.49	+14 17.7	2.033	2.979	7.5	21.0
4 11	11 40.93	+14 11.8	2.090	2.980	10.6	21.1
4 21	11 34.18	+13 49.2	2.171	2.982	13.4	21.3

110696 2001 TP_{212} 3 20.6 28°.47 2°.6/22.5 18

2 11	12 27.14	− 6 19.3	1.499	2.286	18.5	18.7
2 21	12 23.62	− 6 48.2	1.423	2.293	15.0	18.5
3 2	12 17.28	− 6 59.6	1.367	2.302	10.7	18.3
3 12	12 8.80	− 6 54.5	1.334	2.310	6.1	18.0
3 22	11 59.24	− 6 36.0	1.327	2.320	2.7	17.8
4 1	11 49.91	− 6 9.7	1.346	2.330	5.6	18.0
4 11	11 42.04	− 5 42.4	1.390	2.341	10.1	18.3
4 21	11 36.50	− 5 20.3	1.457	2.352	14.2	18.6

210320 2007 TM_{231} 3 20.6 39°.94 1°.1/19.5 18

2 11	12 22.80	+ 0 16.6	1.805	2.609	15.2	20.6
2 21	12 19.58	+ 0 49.7	1.738	2.625	11.8	20.4
3 2	12 14.17	+ 1 35.2	1.693	2.642	7.8	20.2
3 12	12 7.20	+ 2 28.2	1.674	2.659	3.6	20.0
3 22	11 59.52	+ 3 22.4	1.681	2.676	1.6	19.9
4 1	11 52.12	+ 4 11.1	1.717	2.694	5.6	20.2
4 11	11 45.91	+ 4 48.7	1.779	2.712	9.5	20.4
4 21	11 41.51	+ 5 11.9	1.864	2.731	12.9	20.7

238322 2003 YU_{151} 3 20.6 1°.61 0°.1/20.6 17

2 11	12 27.42	− 0 25.3	2.003	2.789	14.5	20.0
2 21	12 23.14	− 0 33.3	1.914	2.788	11.4	19.7
3 2	12 16.62	− 0 31.2	1.847	2.788	7.8	19.5
3 12	12 8.40	− 0 21.8	1.805	2.788	3.7	19.3
3 22	11 59.31	− 0 8.5	1.793	2.789	0.6	19.0
4 1	11 50.34	+ 0 4.4	1.808	2.789	4.9	19.3
4 11	11 42.44	+ 0 12.7	1.852	2.790	8.9	19.6
4 21	11 36.33	+ 0 13.1	1.919	2.791	12.4	19.8

267188 2000 QQ_{147} 3 20.6 97°.47 2°.0/17.9 18

2 11	12 25.14	− 0 13.3	2.227	3.012	13.3	21.1
2 21	12 20.88	+ 1 27.1	2.163	3.041	10.2	20.9
3 2	12 14.77	+ 3 20.3	2.124	3.070	6.6	20.8
3 12	12 7.40	+ 5 19.2	2.115	3.099	3.1	20.6
3 22	11 59.50	+ 7 15.5	2.136	3.126	2.6	20.6
4 1	11 51.89	+ 9 1.2	2.189	3.153	5.8	20.9
4 11	11 45.31	+10 30.1	2.271	3.179	9.0	21.1
4 21	11 40.29	+11 39.0	2.378	3.205	11.9	21.3

376629 2013 PX_{65} 3 20.6 103°.66 0°.8/21.4 18

2 11	12 24.30	− 5 23.7	1.976	2.751	15.0	21.5
2 21	12 20.67	− 4 57.8	1.894	2.761	11.9	21.3
3 2	12 14.90	− 4 15.6	1.834	2.771	8.2	21.1
3 12	12 7.56	− 3 20.3	1.800	2.781	4.2	20.9
3 22	11 59.46	− 2 17.3	1.794	2.790	0.8	20.6
4 1	11 51.54	− 1 13.1	1.817	2.799	4.6	20.9
4 11	11 44.70	− 0 14.3	1.867	2.808	8.6	21.2
4 21	11 39.60	+ 0 33.7	1.942	2.817	12.1	21.4

38062 1999 EC_{9} 3 20.6 228°.86 0°.4/20.2 18

2 11	12 27.88	− 2 2.5	1.896	2.680	15.3	20.2
2 21	12 23.81	− 1 31.8	1.794	2.668	12.1	19.9
3 2	12 17.28	− 0 45.6	1.713	2.656	8.3	19.7
3 12	12 8.82	+ 0 12.6	1.659	2.642	3.9	19.4
3 22	11 59.24	+ 1 16.8	1.633	2.628	0.9	19.1
4 1	11 49.62	+ 2 20.0	1.635	2.614	5.6	19.4
4 11	11 41.06	+ 3 14.8	1.665	2.598	10.1	19.6
4 21	11 34.41	+ 3 56.0	1.719	2.582	14.0	19.8

416076 2002 NC_{63} 3 20.6 278°.08 0°.9/19.8 17

2 11	12 26.06	− 0 16.9	1.668	2.469	16.3	21.7
2 21	12 22.78	+ 0 6.9	1.567	2.451	12.9	21.4
3 2	12 16.82	+ 0 46.0	1.486	2.433	8.8	21.1
3 12	12 8.68	+ 1 36.3	1.430	2.415	4.1	20.8
3 22	11 59.25	+ 2 31.6	1.401	2.396	1.5	20.5
4 1	11 49.73	+ 3 24.2	1.399	2.378	6.4	20.8
4 11	11 41.34	+ 4 6.6	1.423	2.359	11.2	21.0
4 21	11 35.07	+ 4 33.6	1.470	2.340	15.6	21.2

318984 2005 UZ_{353} 3 20.6 144°.29 0°.8/21.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 30.43	− 4 24.7	1.696	2.474	17.0	21.7
2 21	12 25.84	− 4 11.5	1.615	2.483	13.6	21.5
3 2	12 18.60	− 3 41.3	1.555	2.492	9.4	21.3
3 12	12 9.38	− 2 57.2	1.520	2.501	4.7	21.0
3 22	11 59.17	− 2 4.7	1.513	2.509	0.9	20.7
4 1	11 49.16	− 1 10.7	1.534	2.516	5.4	21.1
4 11	11 40.53	− 0 22.5	1.581	2.522	9.9	21.3
4 21	11 34.09	+ 0 14.3	1.653	2.528	13.9	21.6

469609 2004 HS_{78} 3 20.6 213°.54 8°.2/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.04	+26 50.6	2.641	3.447	10.8	21.4
2 21	12 19.42	+28 46.3	2.579	3.442	9.3	21.3
3 2	12 13.94	+30 36.2	2.544	3.437	8.3	21.2
3 12	12 7.10	+32 12.4	2.537	3.432	8.4	21.2
3 22	11 59.55	+33 28.0	2.556	3.427	9.4	21.2
4 1	11 52.07	+34 18.5	2.600	3.421	11.0	21.3
4 11	11 45.47	+34 42.7	2.666	3.415	12.7	21.4
4 21	11 40.32	+34 41.8	2.750	3.409	14.2	21.6

170333 2003 SJ_{106} 3 20.6 221°.52 4°.0/24.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.18	−12 41.4	1.802	2.549	17.3	20.3
2 21	12 22.65	−12 50.4	1.704	2.544	14.4	20.1
3 2	12 16.57	−12 37.7	1.625	2.539	10.9	19.9
3 12	12 8.50	−12 3.1	1.570	2.533	7.0	19.6
3 22	11 59.30	−11 9.2	1.541	2.527	4.2	19.4
4 1	11 50.10	−10 1.7	1.540	2.521	5.5	19.5
4 11	11 42.03	− 8 48.9	1.565	2.514	9.3	19.7
4 21	11 35.98	− 7 39.1	1.615	2.507	13.2	19.9

96149 4125 $T\text{-}_3$ 3 20.6 172°.63 2°.3/17.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.25	+ 6 16.6	2.737	3.523	11.0	20.8
2 21	12 22.31	+ 6 53.5	2.649	3.527	8.5	20.6
3 2	12 15.69	+ 7 35.8	2.586	3.531	5.7	20.5
3 12	12 7.86	+ 8 19.3	2.553	3.534	3.0	20.3
3 22	11 59.44	+ 8 59.4	2.550	3.536	2.7	20.3
4 1	11 51.13	+ 9 32.1	2.577	3.537	5.3	20.4
4 11	11 43.64	+ 9 54.0	2.633	3.538	8.1	20.6
4 21	11 37.49	+10 3.4	2.715	3.537	10.7	20.8

329981 2005 SV_{167} 3 20.6 252°.28 1°.6/22.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.11	−15 29.2	1.142	1.926	23.3	20.4
2 21	12 19.11	−13 38.2	1.055	1.923	19.1	20.1
3 2	12 14.80	−10 54.4	0.985	1.920	13.8	19.8
3 12	12 7.85	− 7 21.6	0.938	1.917	7.4	19.4
3 22	11 59.41	− 3 14.8	0.917	1.913	1.6	19.0
4 1	11 51.08	+ 1 0.4	0.925	1.910	7.2	19.4
4 11	11 44.44	+ 4 55.8	0.958	1.906	13.8	19.7
4 21	11 40.58	+ 8 11.4	1.014	1.903	19.5	20.0

242400 2004 FR_{104} 3 20.6 273°.08 4°.6/15.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.65	+12 22.0	2.274	3.085	12.2	20.3
2 21	12 20.72	+13 12.0	2.192	3.082	9.5	20.1
3 2	12 14.83	+14 4.7	2.135	3.079	6.8	19.9
3 12	12 7.52	+14 53.8	2.105	3.076	4.8	19.8
3 22	11 59.49	+15 33.5	2.103	3.072	5.2	19.8
4 1	11 51.60	+15 58.8	2.129	3.069	7.6	19.9
4 11	11 44.66	+16 6.7	2.182	3.066	10.5	20.1
4 21	11 39.29	+15 56.7	2.257	3.063	13.1	20.3

63549 2001 PJ_{63} 3 20.6 107°.48 0°.2/20.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.57	− 2 59.8	2.003	2.780	14.8	20.4
2 21	12 23.10	− 2 40.3	1.927	2.797	11.6	20.2
3 2	12 16.46	− 2 7.2	1.874	2.813	7.9	20.0
3 12	12 8.28	− 1 24.1	1.848	2.830	3.8	19.7
3 22	11 59.38	− 0 35.9	1.849	2.845	0.6	19.5
4 1	11 50.73	+ 0 11.5	1.880	2.861	4.7	19.9
4 11	11 43.24	+ 0 52.6	1.939	2.876	8.6	20.1
4 21	11 37.53	+ 1 23.2	2.022	2.891	12.0	20.4

326976 2004 MY_6 3 20.6 229°.38 1°.8/22.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.12	− 8 26.8	2.425	3.172	13.3	22.5
2 21	12 21.12	− 8 10.6	2.312	3.159	10.8	22.3
3 2	12 15.18	− 7 38.9	2.222	3.146	7.8	22.1
3 12	12 7.74	− 6 52.9	2.158	3.131	4.4	21.8
3 22	11 59.46	− 5 56.2	2.123	3.116	1.8	21.6
4 1	11 51.12	− 4 53.5	2.118	3.101	4.1	21.8
4 11	11 43.58	− 3 50.9	2.142	3.084	7.6	21.9
4 21	11 37.48	− 2 53.9	2.193	3.068	10.9	22.1

368805 2005 YV_{96} 3 20.6 194°.43 4°.9/25.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.46	−17 10.1	2.378	3.078	14.8	20.9
2 21	12 22.23	−17 28.5	2.274	3.076	12.5	20.8
3 2	12 15.95	−17 28.1	2.189	3.073	9.9	20.6
3 12	12 8.11	−17 8.1	2.129	3.070	7.1	20.4
3 22	11 59.40	−16 29.5	2.096	3.066	5.1	20.3
4 1	11 50.69	−15 36.0	2.092	3.062	5.4	20.3
4 11	11 42.85	−14 33.2	2.116	3.057	7.7	20.4
4 21	11 36.59	−13 27.9	2.166	3.052	10.6	20.6

480761 2016 NF_{46} 3 20.6 295°.43 2°.8/23.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.77	− 9 53.2	2.158	2.911	14.6	20.9
2 21	12 19.56	− 9 58.7	2.051	2.898	12.0	20.7
3 2	12 14.26	− 9 47.7	1.965	2.885	8.9	20.5
3 12	12 7.35	− 9 20.8	1.903	2.872	5.4	20.2
3 22	11 59.52	− 8 40.5	1.869	2.859	2.9	20.0
4 1	11 51.64	− 7 51.3	1.864	2.847	4.5	20.1
4 11	11 44.63	− 6 59.3	1.886	2.834	8.1	20.3
4 21	11 39.21	− 6 10.4	1.933	2.821	11.5	20.5

374616 2006 EB_{32} 3 20.6 72°.18 1°.7/19.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.25	+ 4 23.1	1.920	2.716	14.7	20.4
2 21	12 25.34	+ 4 27.0	1.841	2.724	11.4	20.2
3 2	12 18.06	+ 4 37.9	1.785	2.731	7.7	20.0
3 12	12 9.08	+ 4 51.8	1.755	2.739	3.6	19.8
3 22	11 59.28	+ 5 4.0	1.754	2.747	2.1	19.7
4 1	11 49.71	+ 5 10.2	1.781	2.755	5.8	19.9
4 11	11 41.37	+ 5 6.8	1.836	2.763	9.7	20.2
4 21	11 34.99	+ 4 52.1	1.915	2.770	13.1	20.4

522563 2016 EV_{243} 3 20.6 81°.98 4°.2/16.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.53	+ 7 55.2	1.770	2.588	14.8	21.6
2 21	12 21.89	+ 8 53.9	1.698	2.593	11.5	21.4
3 2	12 15.86	+10 0.3	1.649	2.599	7.8	21.2
3 12	12 8.08	+11 6.7	1.625	2.604	4.7	21.0
3 22	11 59.45	+12 5.4	1.629	2.610	4.9	21.1
4 1	11 51.05	+12 49.0	1.660	2.615	8.0	21.3
4 11	11 43.90	+13 13.2	1.716	2.621	11.7	21.5
4 21	11 38.71	+13 16.6	1.794	2.626	14.9	21.7

518855 2010 DP_{52} 3 20.6 264°.17 0°.0/20.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.13	− 2 3.8	2.733	3.501	11.5	22.3
2 21	12 20.15	− 1 44.3	2.611	3.477	9.1	22.1
3 2	12 14.44	− 1 14.3	2.514	3.452	6.2	21.9
3 12	12 7.39	− 0 36.3	2.445	3.427	3.0	21.6
3 22	11 59.55	+ 0 6.4	2.405	3.401	0.5	21.4
4 1	11 51.63	+ 0 49.4	2.395	3.374	4.0	21.6
4 11	11 44.34	+ 1 28.4	2.415	3.348	7.4	21.8
4 21	11 38.29	+ 1 59.6	2.461	3.320	10.5	21.9

267756 2003 LH_2 3 20.6 273°.39 8°.0/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.84	+19 40.3	2.036	2.855	13.1	20.7
2 21	12 22.22	+21 17.1	1.947	2.832	10.8	20.5
3 2	12 16.21	+22 54.6	1.882	2.809	8.8	20.3
3 12	12 8.34	+24 23.2	1.844	2.785	8.0	20.2
3 22	11 59.40	+25 33.6	1.832	2.761	9.2	20.2
4 1	11 50.42	+26 18.6	1.846	2.737	11.6	20.3
4 11	11 42.48	+26 34.8	1.883	2.712	14.3	20.4
4 21	11 36.40	+26 22.6	1.939	2.687	16.9	20.6

497531 2006 BF_{225} 3 20.6 69°.92 4°.1/24.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.59	−12 5.9	1.891	2.636	16.7	21.0
2 21	12 22.65	−12 29.9	1.809	2.647	13.8	20.8
3 2	12 16.36	−12 35.0	1.747	2.659	10.4	20.6
3 12	12 8.33	−12 21.0	1.710	2.671	6.8	20.4
3 22	11 59.42	−11 50.4	1.698	2.683	4.2	20.3
4 1	11 50.67	−11 7.7	1.715	2.695	5.3	20.4
4 11	11 43.11	−10 19.7	1.759	2.706	8.5	20.6
4 21	11 37.45	− 9 33.1	1.827	2.718	11.9	20.8

177935 2005 TS_{111} 3 20.6 287°.26 1°.3/22.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.56	− 6 37.8	2.383	3.147	13.1	20.7
2 21	12 18.36	− 6 24.6	2.276	3.134	10.5	20.5
3 2	12 13.32	− 5 57.0	2.191	3.122	7.5	20.3
3 12	12 6.87	− 5 17.0	2.132	3.109	4.1	20.1
3 22	11 59.65	− 4 28.0	2.102	3.097	1.3	19.9
4 1	11 52.41	− 3 34.8	2.101	3.084	4.0	20.0
4 11	11 45.95	− 2 42.9	2.128	3.072	7.5	20.2
4 21	11 40.88	− 1 57.3	2.180	3.059	10.8	20.4

30634 6128 $P\text{–}L$ 3 20.6 209°.82 0°.3/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.76	− 3 44.9	2.176	2.949	13.9	20.5
2 21	12 21.76	− 3 20.1	2.077	2.943	11.1	20.3
3 2	12 15.67	− 2 41.1	2.000	2.938	7.6	20.1
3 12	12 8.00	− 1 50.9	1.950	2.931	3.7	19.8
3 22	11 59.47	− 0 54.1	1.928	2.924	0.5	19.6
4 1	11 50.97	+ 0 3.5	1.936	2.917	4.6	19.9
4 11	11 43.40	+ 0 55.8	1.972	2.909	8.5	20.1
4 21	11 37.45	+ 1 38.1	2.033	2.901	12.0	20.3

62084 2000 RA_{86} 3 20.6 196°.67 1°.3/19.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.72	+ 3 4.3	2.633	3.419	11.4	19.7
2 21	12 20.48	+ 3 25.2	2.540	3.417	8.9	19.5
3 2	12 14.55	+ 3 53.0	2.471	3.416	5.9	19.3
3 12	12 7.38	+ 4 24.5	2.430	3.414	2.8	19.1
3 22	11 59.58	+ 4 55.7	2.419	3.412	1.7	19.0
4 1	11 51.86	+ 5 22.5	2.437	3.409	4.6	19.2
4 11	11 44.93	+ 5 41.4	2.485	3.407	7.7	19.4
4 21	11 39.32	+ 5 50.3	2.558	3.404	10.5	19.6

391359 2006 UK_{332} 3 20.6 77°.62 0°.2/20.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 19.93	− 5 24.5	2.339	3.113	13.0	21.4
2 21	12 16.97	− 4 29.2	2.252	3.120	10.3	21.2
3 2	12 12.27	− 3 18.3	2.189	3.127	7.0	21.0
3 12	12 6.32	− 1 55.7	2.152	3.134	3.4	20.8
3 22	11 59.76	− 0 27.1	2.145	3.141	0.5	20.5
4 1	11 53.32	+ 1 0.8	2.168	3.149	4.2	20.8
4 11	11 47.72	+ 2 21.4	2.219	3.156	7.7	21.1
4 21	11 43.51	+ 3 29.7	2.297	3.163	10.8	21.3

495167 2012 HO_{27} 3 20.6 311°.33 9°.4/13.8 17

2 11	12 33.68	+21 34.2	1.569	2.389	16.3	20.9
2 21	12 29.04	+22 22.7	1.486	2.370	13.6	20.7
3 2	12 21.17	+23 6.0	1.423	2.351	10.9	20.5
3 12	12 10.78	+23 33.4	1.384	2.333	9.4	20.4
3 22	11 59.02	+23 35.6	1.370	2.315	10.2	20.4
4 1	11 47.42	+23 6.5	1.381	2.297	12.8	20.5
4 11	11 37.43	+22 5.7	1.414	2.280	16.1	20.6
4 21	11 30.09	+20 37.3	1.468	2.264	19.4	20.8

304288 2006 SJ_{64} 3 20.6 109°.71 2°.6/24.7 18

2 11	12 21.28	−15 9.9	2.716	3.428	12.8	20.7
2 21	12 17.75	−14 23.2	2.625	3.444	10.6	20.6
3 2	12 12.64	−13 17.6	2.557	3.460	7.9	20.4
3 12	12 6.45	−11 55.2	2.516	3.475	5.0	20.2
3 22	11 59.74	−10 20.1	2.504	3.490	2.8	20.1
4 1	11 53.19	− 8 38.0	2.524	3.505	3.6	20.2
4 11	11 47.43	− 6 55.8	2.573	3.519	6.3	20.4
4 21	11 42.93	− 5 19.4	2.651	3.533	9.0	20.6

271087 2003 QL_{7} 3 20.6 262°.80 0°.7/21.3 17

2 11	12 25.40	− 4 30.1	2.312	3.079	13.4	21.7
2 21	12 21.52	− 4 14.0	2.193	3.056	10.7	21.5
3 2	12 15.58	− 3 44.0	2.097	3.032	7.5	21.3
3 12	12 8.01	− 3 2.3	2.027	3.007	3.8	21.0
3 22	11 59.47	− 2 12.6	1.987	2.982	0.7	20.7
4 1	11 50.79	− 1 19.9	1.975	2.957	4.4	20.9
4 11	11 42.88	− 0 30.2	1.993	2.931	8.3	21.1
4 21	11 36.47	+ 0 11.7	2.035	2.905	11.9	21.3

519606 2012 TK_{330} 3 20.6 254°.45 2°.2/23.2 17

2 11	12 21.61	−10 1.6	2.287	3.038	13.9	21.7
2 21	12 18.43	− 9 46.5	2.189	3.037	11.3	21.5
3 2	12 13.36	− 9 14.3	2.113	3.035	8.3	21.3
3 12	12 6.88	− 8 26.6	2.062	3.033	4.9	21.1
3 22	11 59.67	− 7 26.8	2.039	3.031	2.3	20.9
4 1	11 52.50	− 6 20.4	2.046	3.029	4.1	21.0
4 11	11 46.20	− 5 13.6	2.080	3.027	7.5	21.2
4 21	11 41.36	− 4 12.3	2.140	3.025	10.7	21.4

341290 2007 RE_{294} 3 20.6 103°.19 0°.6/21.4 17

2 11	12 23.28	− 5 8.7	2.427	3.192	12.8	21.9
2 21	12 19.42	− 4 38.9	2.347	3.209	10.1	21.7
3 2	12 13.84	− 3 55.9	2.291	3.225	7.0	21.6
3 12	12 7.03	− 3 2.7	2.261	3.241	3.5	21.4
3 22	11 59.66	− 2 3.7	2.261	3.257	0.6	21.2
4 1	11 52.46	− 1 4.3	2.291	3.273	3.9	21.4
4 11	11 46.15	− 0 9.6	2.349	3.288	7.2	21.7
4 21	11 41.24	+ 0 36.2	2.434	3.303	10.2	21.9

488762 2004 TW_{62} 3 20.6 131°.83 1°.8/18.9 16

2 11	12 29.07	+ 4 5.2	2.295	3.082	12.9	22.0
2 21	12 24.00	+ 4 26.0	2.216	3.094	10.0	21.8
3 2	12 16.96	+ 4 53.8	2.160	3.105	6.6	21.6
3 12	12 8.52	+ 5 24.5	2.133	3.116	3.2	21.4
3 22	11 59.42	+ 5 53.4	2.135	3.127	2.1	21.4
4 1	11 50.53	+ 6 16.2	2.167	3.137	5.3	21.6
4 11	11 42.67	+ 6 29.4	2.227	3.147	8.6	21.8
4 21	11 36.43	+ 6 31.1	2.312	3.156	11.6	22.0

343329 2010 CB_{14} 3 20.6 137°.43 3°.5/16.8 17

2 11	12 27.24	+10 24.9	2.430	3.231	11.8	21.0
2 21	12 22.52	+10 56.0	2.351	3.236	9.2	20.8
3 2	12 15.94	+11 29.8	2.296	3.241	6.3	20.6
3 12	12 8.03	+12 1.4	2.269	3.245	3.9	20.5
3 22	11 59.50	+12 25.9	2.271	3.250	4.0	20.5
4 1	11 51.14	+12 39.4	2.303	3.254	6.4	20.7
4 11	11 43.74	+12 39.4	2.361	3.258	9.3	20.8
4 21	11 37.85	+12 25.2	2.444	3.262	11.9	21.0

174771 2003 WC_{45} 3 20.6 86°.46 3°.8/24.0 18

2 11	12 26.20	−11 55.2	1.654	2.411	18.2	20.1
2 21	12 22.69	−12 3.5	1.574	2.421	15.0	19.9
3 2	12 16.58	−11 49.2	1.512	2.431	11.2	19.7
3 12	12 8.49	−11 12.9	1.475	2.440	7.0	19.5
3 22	11 59.41	−10 18.1	1.462	2.450	4.0	19.3
4 1	11 50.52	− 9 11.6	1.477	2.460	5.5	19.4
4 11	11 42.95	− 8 2.1	1.518	2.469	9.4	19.7
4 21	11 37.53	− 6 57.8	1.584	2.479	13.2	19.9

269087 2007 HZ_{31} 3 20.6 273°.86 0°.4/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 24.71	− 3 23.3	2.024	2.805	14.6	21.5
2 21	12 21.23	− 3 8.0	1.916	2.787	11.6	21.2
3 2	12 15.51	− 2 38.1	1.830	2.770	8.0	21.0
3 12	12 8.01	− 1 56.3	1.770	2.752	4.0	20.7
3 22	11 59.48	− 1 7.0	1.737	2.733	0.6	20.4
4 1	11 50.87	− 0 16.0	1.733	2.715	4.9	20.7
4 11	11 43.17	+ 0 30.3	1.757	2.697	9.2	20.9
4 21	11 37.19	+ 1 6.8	1.804	2.678	13.0	21.1

115058 Tassantal 3 20.6 337°.49 4°.2/23.5 18

2 11	12 25.62	− 9 41.6	1.404	2.186	19.8	20.1
2 21	12 22.90	−10 14.3	1.317	2.180	16.3	19.9
3 2	12 17.14	−10 25.5	1.248	2.175	12.2	19.6
3 12	12 8.93	−10 14.6	1.200	2.171	7.6	19.3
3 22	11 59.33	− 9 43.8	1.177	2.167	4.2	19.1
4 1	11 49.72	− 8 58.9	1.179	2.163	6.3	19.2
4 11	11 41.55	− 8 8.8	1.206	2.160	10.9	19.5
4 21	11 35.87	− 7 22.3	1.254	2.157	15.4	19.7

403870 2011 WX_{24} 3 20.6 102°.00 1°.2/21.7 18

2 11	12 26.33	− 6 46.8	1.625	2.405	17.6	21.5
2 21	12 22.72	− 6 18.8	1.550	2.419	14.0	21.3
3 2	12 16.53	− 5 30.0	1.495	2.432	9.8	21.0
3 12	12 8.44	− 4 24.0	1.465	2.445	5.0	20.8
3 22	11 59.44	− 3 7.4	1.461	2.457	1.2	20.5
4 1	11 50.69	− 1 48.7	1.486	2.469	5.3	20.9
4 11	11 43.31	− 0 36.8	1.537	2.481	9.8	21.1
4 21	11 38.06	+ 0 21.8	1.611	2.493	13.8	21.4

312513 2009 CD_{57} 3 20.6 136°.25 2°.9/17.9 18

2 11	12 29.21	+ 4 39.6	1.878	2.678	14.8	21.5
2 21	12 24.56	+ 5 31.1	1.805	2.691	11.4	21.3
3 2	12 17.56	+ 6 32.2	1.755	2.703	7.6	21.1
3 12	12 8.87	+ 7 36.5	1.732	2.714	3.9	20.9
3 22	11 59.39	+ 8 36.7	1.737	2.725	3.4	20.9
4 1	11 50.17	+ 9 25.9	1.771	2.735	6.8	21.1
4 11	11 42.20	+ 9 59.2	1.832	2.745	10.6	21.4
4 21	11 36.18	+10 14.6	1.916	2.754	13.9	21.6

20839 Bretharrison 3 20.6 205°.86 1°.4/19.1 18

2 11	12 24.16	+ 0 54.6	2.060	2.854	13.9	19.2
2 21	12 20.58	+ 1 36.2	1.970	2.852	10.8	19.0
3 2	12 14.90	+ 2 30.0	1.903	2.850	7.2	18.8
3 12	12 7.65	+ 3 31.1	1.863	2.848	3.3	18.6
3 22	11 59.58	+ 4 33.7	1.852	2.845	1.9	18.4
4 1	11 51.60	+ 5 31.0	1.869	2.843	5.6	18.7
4 11	11 44.61	+ 6 17.3	1.913	2.840	9.4	18.9
4 21	11 39.28	+ 6 48.9	1.982	2.836	12.8	19.1

321068 2008 SZ_{56} 3 20.6 71°.09 2°.1/18.7 18

2 11	12 25.98	+ 4 0.6	1.993	2.795	14.0	20.5
2 21	12 22.00	+ 4 27.7	1.911	2.798	10.9	20.3
3 2	12 15.84	+ 5 3.4	1.852	2.801	7.3	20.1
3 12	12 8.08	+ 5 43.0	1.820	2.804	3.5	19.9
3 22	11 59.52	+ 6 20.7	1.815	2.807	2.5	19.8
4 1	11 51.12	+ 6 51.2	1.839	2.810	6.0	20.0
4 11	11 43.82	+ 7 9.9	1.890	2.813	9.7	20.3
4 21	11 38.27	+ 7 14.6	1.964	2.816	13.0	20.5

350127 2011 QO_{94} 3 20.6 255°.43 2°.4/23.3 17

2 11	12 23.67	− 9 31.6	2.510	3.253	13.1	21.3
2 21	12 19.94	− 9 34.3	2.399	3.240	10.7	21.1
3 2	12 14.37	− 9 22.7	2.310	3.228	7.8	20.9
3 12	12 7.39	− 8 57.7	2.247	3.215	4.8	20.7
3 22	11 59.62	− 8 21.5	2.213	3.203	2.4	20.5
4 1	11 51.82	− 7 37.9	2.208	3.189	4.0	20.6
4 11	11 44.75	− 6 52.1	2.231	3.176	7.2	20.8
4 21	11 39.06	− 6 8.9	2.281	3.163	10.3	20.9

213580 2002 NM_{40} 3 20.6 338°.26 7°.9/24.9 17

2 11	12 21.64	−12 28.6	1.157	1.951	22.5	19.5
2 21	12 20.61	−13 55.4	1.067	1.932	19.2	19.2
3 2	12 16.16	−15 1.5	0.992	1.914	15.2	18.9
3 12	12 8.73	−15 41.9	0.937	1.897	11.0	18.6
3 22	11 59.36	−15 53.7	0.903	1.883	8.1	18.4
4 1	11 49.69	−15 38.5	0.891	1.870	9.0	18.4
4 11	11 41.53	−15 4.3	0.900	1.858	13.0	18.6
4 21	11 36.30	−14 22.0	0.928	1.849	17.7	18.8

369967 1995 UP_{21} 3 20.6 83°.79 0°.9/19.8 18

2 11	12 27.16	+ 0 34.7	1.927	2.719	14.8	21.6
2 21	12 22.88	+ 0 55.2	1.854	2.733	11.5	21.4
3 2	12 16.39	+ 1 26.7	1.803	2.748	7.7	21.2
3 12	12 8.31	+ 2 5.0	1.779	2.763	3.5	21.0
3 22	11 59.50	+ 2 44.9	1.782	2.777	1.3	20.9
4 1	11 50.95	+ 3 20.7	1.815	2.792	5.3	21.2
4 11	11 43.58	+ 3 47.4	1.874	2.806	9.2	21.4
4 21	11 38.05	+ 4 1.9	1.958	2.820	12.6	21.7

464923 2005 UR_{52} 3 20.6 105°.31 0°.5/20.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.63	− 2 9.0	2.064	2.846	14.3	21.9
2 21	12 21.52	− 1 24.6	1.992	2.865	11.1	21.7
3 2	12 15.38	− 0 26.5	1.942	2.884	7.4	21.5
3 12	12 7.80	+ 0 40.5	1.919	2.903	3.4	21.3
3 22	11 59.58	+ 1 50.5	1.926	2.921	1.0	21.1
4 1	11 51.61	+ 2 56.8	1.961	2.939	4.9	21.4
4 11	11 44.72	+ 3 53.4	2.025	2.956	8.7	21.7
4 21	11 39.52	+ 4 36.3	2.113	2.973	11.9	21.9

423245 2004 TT_{140} 3 20.6 61°.19 0°.4/20.3 18

2 11	12 30.08	− 0 17.2	1.736	2.526	16.2	21.2
2 21	12 25.21	− 0 10.3	1.677	2.555	12.6	21.0
3 2	12 17.93	+ 0 8.5	1.640	2.584	8.5	20.8
3 12	12 9.00	+ 0 35.1	1.629	2.612	3.9	20.6
3 22	11 59.41	+ 1 4.5	1.645	2.641	0.9	20.4
4 1	11 50.26	+ 1 31.0	1.690	2.670	5.3	20.8
4 11	11 42.54	+ 1 49.9	1.762	2.698	9.4	21.1
4 21	11 36.88	+ 1 58.1	1.857	2.726	12.9	21.4

91394 1999 LM 3 20.6 299°.32 7°.4/27.7 18

2 11	12 21.71	−20 54.5	1.807	2.518	18.5	19.8
2 21	12 19.43	−21 23.4	1.696	2.499	16.1	19.6
3 2	12 14.62	−21 26.3	1.602	2.480	13.3	19.4
3 12	12 7.73	−20 59.9	1.530	2.461	10.2	19.1
3 22	11 59.56	−20 3.7	1.480	2.442	7.8	18.9
4 1	11 51.23	−18 41.3	1.457	2.424	7.6	18.9
4 11	11 43.92	−17 1.2	1.459	2.406	10.0	19.0
4 21	11 38.60	−15 14.2	1.484	2.388	13.4	19.1

111800 2002 CT_{244} 3 20.6 56°.41 0°.9/19.8 18

2 11	12 23.23	− 2 49.9	1.464	2.272	17.9	19.7
2 21	12 20.64	− 1 55.2	1.388	2.276	14.0	19.5
3 2	12 15.32	− 0 39.5	1.333	2.281	9.4	19.2
3 12	12 7.96	+ 0 51.1	1.302	2.287	4.3	19.0
3 22	11 59.56	+ 2 27.4	1.296	2.292	1.5	18.8
4 1	11 51.36	+ 3 58.6	1.318	2.297	6.6	19.1
4 11	11 44.57	+ 5 14.8	1.365	2.303	11.4	19.4
4 21	11 40.00	+ 6 10.2	1.434	2.308	15.6	19.7

361137 2006 HV_{43} 3 20.6 206°.97 0°.8/19.9 16

2 11	12 28.22	− 0 24.7	1.872	2.661	15.3	22.1
2 21	12 24.04	+ 0 2.4	1.779	2.657	12.0	21.9
3 2	12 17.41	+ 0 43.0	1.708	2.652	8.1	21.6
3 12	12 8.91	+ 1 33.0	1.663	2.647	3.8	21.4
3 22	11 59.40	+ 2 26.7	1.646	2.641	1.3	21.2
4 1	11 49.95	+ 3 17.2	1.657	2.635	5.7	21.5
4 11	11 41.62	+ 3 58.3	1.696	2.628	10.0	21.7
4 21	11 35.23	+ 4 25.6	1.759	2.621	13.8	21.9

320569 2008 AX_{92} 3 20.6 139°.33 0°.8/19.8 18

2 11	12 28.81	− 0 17.9	2.012	2.795	14.5	22.0
2 21	12 24.12	+ 0 12.5	1.932	2.807	11.4	21.8
3 2	12 17.23	+ 0 55.1	1.876	2.819	7.6	21.6
3 12	12 8.73	+ 1 45.5	1.846	2.829	3.5	21.3
3 22	11 59.46	+ 2 38.0	1.844	2.840	1.3	21.2
4 1	11 50.40	+ 3 26.7	1.873	2.849	5.3	21.5
4 11	11 42.48	+ 4 5.9	1.929	2.858	9.2	21.7
4 21	11 36.39	+ 4 32.3	2.009	2.866	12.6	21.9

274254 2008 OO_{20} 3 20.6 199°.22 0°.4/21.1 17

2 11	12 24.42	− 4 1.9	2.155	2.930	14.0	21.9
2 21	12 20.72	− 3 38.1	2.060	2.928	11.1	21.7
3 2	12 14.97	− 3 0.1	1.988	2.926	7.6	21.5
3 12	12 7.69	− 2 10.7	1.942	2.924	3.8	21.2
3 22	11 59.61	− 1 14.6	1.925	2.921	0.6	21.0
4 1	11 51.59	− 0 17.7	1.937	2.918	4.5	21.3
4 11	11 44.52	+ 0 34.0	1.977	2.915	8.4	21.5
4 21	11 39.04	+ 1 15.8	2.041	2.912	11.8	21.7

491708 2012 UB_{121} 3 20.6 230°.08 3°.7/24.9 17

2 11	12 23.02	−14 0.4	2.435	3.158	13.9	21.6
2 21	12 19.48	−14 7.8	2.331	3.154	11.6	21.4
3 2	12 14.08	−13 58.1	2.248	3.150	8.9	21.3
3 12	12 7.27	−13 31.3	2.191	3.146	6.0	21.1
3 22	11 59.68	−12 49.5	2.161	3.141	3.9	20.9
4 1	11 52.11	−11 56.5	2.159	3.137	4.5	21.0
4 11	11 45.35	−10 57.9	2.186	3.132	7.2	21.1
4 21	11 40.02	− 9 59.5	2.239	3.127	10.2	21.3

113971 2002 UL_{15} 3 20.6 52°.36 3°.1/17.3 18

2 11	12 22.39	+ 5 21.4	1.974	2.786	13.7	19.8
2 21	12 19.17	+ 6 20.7	1.904	2.797	10.6	19.6
3 2	12 13.89	+ 7 28.6	1.858	2.809	7.0	19.4
3 12	12 7.14	+ 8 38.8	1.838	2.821	3.8	19.2
3 22	11 59.72	+ 9 44.2	1.847	2.832	3.7	19.2
4 1	11 52.51	+10 38.2	1.883	2.844	6.8	19.5
4 11	11 46.37	+11 15.9	1.945	2.857	10.2	19.7
4 21	11 41.91	+11 35.5	2.031	2.869	13.2	19.9

94899 2001 YN_{11} 3 20.6 149°.71 1°.1/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 29.03	− 0 26.1	1.923	2.708	15.1	21.3
2 21	12 24.43	+ 0 14.9	1.842	2.718	11.8	21.1
3 2	12 17.51	+ 1 9.4	1.784	2.728	7.9	20.9
3 12	12 8.89	+ 2 12.5	1.753	2.737	3.6	20.6
3 22	11 59.44	+ 3 17.8	1.751	2.745	1.5	20.5
4 1	11 50.20	+ 4 18.2	1.777	2.753	5.6	20.8
4 11	11 42.14	+ 5 7.5	1.832	2.759	9.7	21.1
4 21	11 35.99	+ 5 41.9	1.910	2.765	13.2	21.3

298734 2004 GB_5 3 20.6 275°.80 1°.1/19.3 17

2 11	12 21.75	+ 0 31.5	2.362	3.153	12.4	21.1
2 21	12 18.52	+ 1 10.5	2.259	3.139	9.7	20.9
3 2	12 13.44	+ 2 0.7	2.180	3.125	6.5	20.7
3 12	12 6.97	+ 2 58.3	2.127	3.112	3.0	20.4
3 22	11 59.73	+ 3 58.2	2.104	3.098	1.5	20.3
4 1	11 52.50	+ 4 54.6	2.110	3.084	5.0	20.5
4 11	11 46.04	+ 5 42.2	2.143	3.070	8.5	20.7
4 21	11 40.99	+ 6 17.3	2.202	3.056	11.7	20.9

429152 2009 UY_{110} 3 20.6 160°.71 1°.8/22.7 17

2 11	12 24.83	− 8 46.9	2.303	3.053	13.9	22.1
2 21	12 20.87	− 8 28.9	2.210	3.058	11.2	21.9
3 2	12 14.98	− 7 54.7	2.139	3.063	8.0	21.7
3 12	12 7.67	− 7 6.2	2.094	3.067	4.6	21.5
3 22	11 59.64	− 6 7.2	2.078	3.071	1.8	21.4
4 1	11 51.70	− 5 3.1	2.092	3.075	4.1	21.5
4 11	11 44.67	− 4 0.1	2.134	3.077	7.5	21.7
4 21	11 39.17	− 3 3.6	2.202	3.080	10.8	21.9

369284 2009 RQ_{26} 3 20.6 194°.96 0°.7/21.5 17

2 11	12 26.38	− 5 0.2	2.496	3.253	12.7	22.5
2 21	12 21.96	− 4 40.4	2.394	3.251	10.2	22.3
3 2	12 15.68	− 4 7.7	2.315	3.247	7.1	22.1
3 12	12 8.01	− 3 24.4	2.264	3.243	3.6	21.9
3 22	11 59.59	− 2 34.2	2.242	3.238	0.8	21.6
4 1	11 51.22	− 1 42.0	2.251	3.233	4.0	21.9
4 11	11 43.66	− 0 53.0	2.289	3.226	7.5	22.1
4 21	11 37.53	− 0 11.4	2.353	3.219	10.6	22.3

82640 2001 PZ_2 3 20.6 240°.68 6°.7/27.1 18

2 11	12 26.74	−20 0.2	2.098	2.790	16.7	19.8
2 21	12 22.95	−20 38.1	1.988	2.779	14.5	19.6
3 2	12 16.78	−20 54.8	1.897	2.768	11.8	19.4
3 12	12 8.70	−20 47.6	1.828	2.756	9.1	19.2
3 22	11 59.47	−20 16.3	1.785	2.743	7.0	19.1
4 1	11 50.11	−19 23.3	1.768	2.730	7.0	19.0
4 11	11 41.70	−18 15.2	1.779	2.717	9.2	19.1
4 21	11 35.11	−17 0.0	1.814	2.704	12.1	19.3

34346 2000 RJ_1 3 20.6 222°.91 0°.4/21.0 18 R

2 11	12 24.70	− 3 44.6	1.977	2.758	14.8	19.6
2 21	12 21.15	− 3 23.7	1.884	2.755	11.8	19.4
3 2	12 15.38	− 2 47.7	1.813	2.752	8.1	19.2
3 12	12 7.94	− 1 59.8	1.767	2.749	4.0	18.9
3 22	11 59.60	− 1 4.8	1.749	2.746	0.6	18.6
4 1	11 51.33	− 0 9.0	1.760	2.742	4.9	18.9
4 11	11 44.09	+ 0 41.1	1.799	2.739	9.0	19.2
4 21	11 38.59	+ 1 20.5	1.861	2.735	12.6	19.4

246397 2007 UK_{56} 3 20.6 293°.15 6°.8/13.6 18

2 11	12 28.29	+19 23.5	2.167	2.978	12.7	20.3
2 21	12 23.73	+20 15.6	2.090	2.972	10.3	20.1
3 2	12 16.98	+21 4.9	2.038	2.967	8.0	20.0
3 12	12 8.63	+21 44.2	2.012	2.962	6.8	19.9
3 22	11 59.51	+22 7.0	2.013	2.957	7.5	19.9
4 1	11 50.57	+22 9.1	2.041	2.952	9.6	20.0
4 11	11 42.76	+21 48.9	2.094	2.947	12.1	20.2
4 21	11 36.73	+21 7.9	2.168	2.942	14.6	20.3

111906 2002 FF_{33} 3 20.6 280°.11 4°.8/16.3 17

2 11	12 27.65	+11 16.9	1.910	2.724	14.0	19.6
2 21	12 23.54	+11 59.6	1.825	2.716	11.0	19.4
3 2	12 17.04	+12 46.3	1.762	2.709	7.8	19.1
3 12	12 8.73	+13 30.1	1.726	2.701	5.1	19.0
3 22	11 59.48	+14 4.1	1.717	2.693	5.4	19.0
4 1	11 50.35	+14 22.5	1.736	2.685	8.3	19.1
4 11	11 42.37	+14 21.9	1.780	2.677	11.7	19.3
4 21	11 36.30	+14 1.7	1.846	2.669	14.9	19.5

196589 2003 QG_{51} 3 20.6 196°.46 2°.2/18.4 17

2 11	12 25.80	+ 4 23.2	2.164	2.962	13.2	20.5
2 21	12 21.74	+ 4 56.0	2.076	2.961	10.2	20.3
3 2	12 15.63	+ 5 37.1	2.012	2.960	6.8	20.1
3 12	12 8.00	+ 6 21.5	1.975	2.958	3.4	19.9
3 22	11 59.60	+ 7 4.1	1.967	2.957	2.6	19.8
4 1	11 51.31	+ 7 39.2	1.987	2.955	5.9	20.0
4 11	11 44.00	+ 8 2.6	2.035	2.953	9.4	20.2
4 21	11 38.32	+ 8 11.9	2.106	2.951	12.5	20.4

503469 2016 EW_{145} 3 20.6 314°.47 1°.6/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 18.09	− 2 46.2	1.514	2.328	17.1	21.5
2 21	12 16.79	− 1 31.5	1.414	2.307	13.5	21.2
3 2	12 12.91	+ 0 8.6	1.335	2.287	9.1	20.9
3 12	12 6.95	+ 2 8.1	1.280	2.266	4.2	20.6
3 22	11 59.75	+ 4 17.1	1.252	2.247	2.3	20.4
4 1	11 52.46	+ 6 22.5	1.251	2.227	7.3	20.7
4 11	11 46.31	+ 8 11.7	1.275	2.209	12.4	20.9
4 21	11 42.24	+ 9 36.1	1.320	2.191	17.0	21.1

324 Bamberga 3 20.6 161°.74 2°.5/23.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.77	−10 47.8	2.826	3.546	12.2	12.6
2 21	12 22.76	−10 50.8	2.728	3.555	10.0	12.5
3 2	12 16.07	−10 40.3	2.653	3.562	7.4	12.3
3 12	12 8.15	−10 17.3	2.606	3.569	4.6	12.1
3 22	11 59.60	− 9 43.9	2.588	3.575	2.6	11.9
4 1	11 51.13	− 9 3.5	2.600	3.580	3.7	12.0
4 11	11 43.43	− 8 20.5	2.643	3.584	6.4	12.2
4 21	11 37.06	− 7 39.2	2.714	3.588	9.1	12.4

354763 2005 UA_{69} 3 20.6 214°.22 2°.8/23.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.10	−10 6.3	1.670	2.433	17.9	21.3
2 21	12 23.59	− 9 56.1	1.573	2.427	14.6	21.0
3 2	12 17.37	− 9 23.1	1.496	2.422	10.7	20.8
3 12	12 9.01	− 8 28.3	1.443	2.415	6.3	20.5
3 22	11 59.44	− 7 15.9	1.416	2.408	2.8	20.3
4 1	11 49.86	− 5 53.5	1.417	2.401	5.4	20.4
4 11	11 41.51	− 4 31.0	1.444	2.393	10.0	20.6
4 21	11 35.31	− 3 17.0	1.496	2.384	14.3	20.9

165753 2001 QM_{202} 3 20.6 156°.36 2°.0/22.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.82	− 8 9.8	2.597	3.340	12.7	20.2
2 21	12 21.42	− 8 15.5	2.501	3.344	10.3	20.1
3 2	12 15.25	− 8 8.6	2.429	3.349	7.4	19.9
3 12	12 7.78	− 7 50.1	2.383	3.353	4.3	19.7
3 22	11 59.66	− 7 22.5	2.366	3.357	2.1	19.5
4 1	11 51.60	− 6 49.2	2.379	3.361	3.8	19.7
4 11	11 44.36	− 6 14.9	2.421	3.364	6.8	19.9
4 21	11 38.49	− 5 43.5	2.490	3.367	9.7	20.1

406378 2007 RB_{315} 3 20.6 227°.27 1°.5/22.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.54	− 7 35.0	1.901	2.666	15.9	22.2
2 21	12 22.83	− 7 10.8	1.796	2.655	12.9	22.0
3 2	12 16.70	− 6 26.8	1.713	2.644	9.2	21.7
3 12	12 8.65	− 5 25.3	1.655	2.632	4.9	21.4
3 22	11 59.51	− 4 10.9	1.624	2.619	1.5	21.1
4 1	11 50.31	− 2 50.8	1.623	2.606	5.0	21.3
4 11	11 42.15	− 1 33.5	1.649	2.592	9.4	21.6
4 21	11 35.86	− 0 26.3	1.699	2.577	13.4	21.8

111527 2001 YR_{111} 3 20.7 305°.90 4°.1/16.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.69	+10 19.4	2.202	3.015	12.5	19.2
2 21	12 20.17	+11 3.7	2.109	3.001	9.7	18.9
3 2	12 14.63	+11 52.6	2.040	2.987	6.8	18.7
3 12	12 7.57	+12 40.2	1.998	2.974	4.4	18.6
3 22	11 59.69	+13 20.4	1.984	2.960	4.7	18.5
4 1	11 51.85	+13 47.9	1.998	2.947	7.4	18.7
4 11	11 44.93	+13 59.1	2.037	2.934	10.5	18.8
4 21	11 39.57	+13 52.5	2.100	2.922	13.4	19.0

156501 2002 CZ_{142} 3 20.7 254°.40 5°.8/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.56	+11 11.2	1.896	2.720	13.7	20.2
2 21	12 19.60	+12 51.9	1.818	2.716	10.7	19.9
3 2	12 14.38	+14 39.7	1.765	2.711	7.7	19.7
3 12	12 7.48	+16 25.4	1.738	2.707	5.9	19.6
3 22	11 59.71	+17 59.3	1.740	2.703	6.8	19.7
4 1	11 52.03	+19 12.9	1.768	2.698	9.6	19.8
4 11	11 45.43	+20 1.2	1.821	2.694	12.8	20.0
4 21	11 40.63	+20 23.1	1.895	2.689	15.7	20.2

306619 2000 QE_{34} 3 20.7 156°.38 4°.0/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.22	+ 6 37.9	2.031	2.835	13.7	21.7
2 21	12 22.93	+ 8 7.5	1.956	2.844	10.6	21.5
3 2	12 16.46	+ 9 46.5	1.905	2.853	7.2	21.3
3 12	12 8.40	+11 26.9	1.883	2.860	4.4	21.1
3 22	11 59.57	+13 0.0	1.889	2.867	4.7	21.2
4 1	11 50.93	+14 18.1	1.925	2.873	7.7	21.4
4 11	11 43.39	+15 15.7	1.988	2.878	11.0	21.6
4 21	11 37.62	+15 51.0	2.074	2.883	14.0	21.8

224353 2005 UD_{111} 3 20.7 41°.98 1°.9/19.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.76	+ 2 56.8	1.713	2.519	15.7	20.4
2 21	12 22.97	+ 3 18.9	1.635	2.524	12.3	20.2
3 2	12 16.70	+ 3 51.7	1.580	2.529	8.2	20.0
3 12	12 8.58	+ 4 29.8	1.550	2.534	3.9	19.7
3 22	11 59.55	+ 5 7.3	1.546	2.540	2.3	19.6
4 1	11 50.72	+ 5 37.7	1.571	2.545	6.4	19.9
4 11	11 43.18	+ 5 56.0	1.621	2.551	10.5	20.2
4 21	11 37.68	+ 5 59.5	1.694	2.557	14.2	20.4

386850 2010 MM 3 20.7 270°.02 5°.3/14.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.67	+14 54.5	2.284	3.096	12.1	20.7
2 21	12 21.54	+15 46.1	2.207	3.094	9.6	20.5
3 2	12 15.44	+16 38.3	2.153	3.092	7.0	20.3
3 12	12 7.90	+17 24.8	2.127	3.090	5.4	20.2
3 22	11 59.66	+17 59.5	2.128	3.089	5.9	20.3
4 1	11 51.57	+18 17.8	2.157	3.087	8.2	20.4
4 11	11 44.47	+18 17.4	2.212	3.085	10.8	20.6
4 21	11 38.97	+17 58.4	2.290	3.083	13.3	20.7

518965 2010 HJ_{45} 3 20.7 275°.84 4°.1/15.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.77	+ 9 50.3	2.471	3.281	11.4	22.1
2 21	12 18.52	+11 1.3	2.369	3.260	8.9	21.9
3 2	12 13.46	+12 18.7	2.293	3.239	6.2	21.7
3 12	12 7.01	+13 36.4	2.245	3.218	4.3	21.6
3 22	11 59.78	+14 48.0	2.226	3.197	4.8	21.6
4 1	11 52.53	+15 47.3	2.235	3.176	7.3	21.7
4 11	11 46.01	+16 29.8	2.271	3.154	10.2	21.8
4 21	11 40.86	+16 53.3	2.330	3.132	12.9	22.0

366946 2005 VF_{120} 3 20.7 139°.46 4°.3/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.91	−17 11.4	2.613	3.305	13.8	21.3
2 21	12 22.27	−17 16.8	2.522	3.320	11.6	21.1
3 2	12 15.81	−17 4.2	2.452	3.335	9.0	21.0
3 12	12 8.05	−16 33.7	2.407	3.348	6.4	20.8
3 22	11 59.64	−15 47.1	2.390	3.361	4.5	20.7
4 1	11 51.37	−14 48.4	2.402	3.373	4.7	20.7
4 11	11 43.97	−13 43.1	2.444	3.385	6.9	20.9
4 21	11 38.01	−12 37.0	2.513	3.396	9.4	21.1

114700 2003 FV_{115} 3 20.7 7°.35 3°.0/18.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.37	+ 8 54.6	2.034	2.836	13.8	19.1
2 21	12 25.38	+ 8 54.6	1.951	2.836	10.8	18.9
3 2	12 18.12	+ 8 57.4	1.892	2.838	7.3	18.7
3 12	12 9.19	+ 8 58.5	1.859	2.839	4.0	18.5
3 22	11 59.47	+ 8 53.8	1.854	2.842	3.4	18.4
4 1	11 49.94	+ 8 39.6	1.879	2.844	6.4	18.6
4 11	11 41.58	+ 8 13.9	1.931	2.847	9.9	18.8
4 21	11 35.08	+ 7 36.2	2.007	2.851	13.1	19.1

521055 2015 DE_{237} 3 20.7 193°.29 1°.0/19.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.64	+ 0 6.0	2.297	3.084	12.8	21.9
2 21	12 19.96	+ 0 42.8	2.206	3.083	10.0	21.7
3 2	12 14.39	+ 1 30.8	2.137	3.082	6.7	21.5
3 12	12 7.42	+ 2 26.0	2.096	3.081	3.1	21.3
3 22	11 59.74	+ 3 23.2	2.084	3.079	1.4	21.1
4 1	11 52.13	+ 4 16.9	2.102	3.077	4.9	21.4
4 11	11 45.40	+ 5 1.7	2.147	3.075	8.5	21.6
4 21	11 40.16	+ 5 34.2	2.217	3.072	11.6	21.8

218008 2001 XQ_{157} 3 20.7 121°.80 0°.0/20.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.78	− 3 11.7	2.113	2.890	14.2	21.3
2 21	12 21.68	− 2 38.2	2.034	2.903	11.1	21.1
3 2	12 15.55	− 1 50.8	1.977	2.917	7.5	20.9
3 12	12 7.95	− 0 53.4	1.947	2.930	3.6	20.7
3 22	11 59.67	+ 0 8.8	1.946	2.942	0.6	20.5
4 1	11 51.58	+ 1 9.5	1.974	2.954	4.6	20.8
4 11	11 44.53	+ 2 2.8	2.031	2.966	8.4	21.1
4 21	11 39.13	+ 2 44.5	2.112	2.977	11.7	21.3

341724 2007 VG_{219} 3 20.7 110°.41 2°.5/17.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.60	+ 6 7.8	2.440	3.238	11.9	20.9
2 21	12 20.47	+ 6 47.5	2.364	3.249	9.1	20.7
3 2	12 14.58	+ 7 33.1	2.313	3.260	6.1	20.6
3 12	12 7.45	+ 8 19.8	2.289	3.270	3.3	20.4
3 22	11 59.75	+ 9 2.8	2.295	3.281	3.0	20.4
4 1	11 52.22	+ 9 37.2	2.330	3.291	5.6	20.6
4 11	11 45.59	+ 9 59.8	2.392	3.301	8.6	20.8
4 21	11 40.40	+10 8.8	2.479	3.311	11.3	21.0

128485 2004 PD_{10} 3 20.7 177°.09 2°.6/18.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.91	+ 2 51.6	1.948	2.744	14.5	21.5
2 21	12 23.63	+ 3 55.9	1.863	2.746	11.2	21.2
3 2	12 17.04	+ 5 12.7	1.801	2.749	7.5	21.0
3 12	12 8.73	+ 6 35.6	1.767	2.750	3.7	20.8
3 22	11 59.54	+ 7 56.7	1.761	2.750	3.1	20.7
4 1	11 50.48	+ 9 8.2	1.785	2.750	6.7	21.0
4 11	11 42.54	+10 3.7	1.836	2.749	10.6	21.2
4 21	11 36.45	+10 40.1	1.910	2.746	14.0	21.4

57308 2001 QL_{201} 3 20.7 22°.96 0°.9/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 14.62	−11 26.3	1.095	1.908	22.3	18.4
2 21	12 14.66	− 8 53.0	1.025	1.915	17.6	18.1
3 2	12 11.67	− 5 31.1	0.974	1.924	11.9	17.8
3 12	12 6.36	− 1 32.4	0.947	1.933	5.4	17.5
3 22	11 59.91	+ 2 40.9	0.948	1.943	1.8	17.3
4 1	11 53.75	+ 6 41.6	0.976	1.955	8.3	17.7
4 11	11 49.22	+10 6.5	1.029	1.967	14.3	18.0
4 21	11 47.17	+12 43.5	1.104	1.980	19.1	18.4

272931 2006 BV_{222} 3 20.7 220°.09 0°.2/20.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 24.05	− 2 32.5	2.149	2.930	13.8	21.4
2 21	12 20.47	− 2 2.6	2.053	2.926	10.9	21.2
3 2	12 14.84	− 1 19.1	1.980	2.921	7.4	20.9
3 12	12 7.69	− 0 25.3	1.934	2.917	3.5	20.7
3 22	11 59.71	+ 0 33.7	1.916	2.912	0.7	20.4
4 1	11 51.78	+ 1 31.9	1.927	2.906	4.8	20.7
4 11	11 44.78	+ 2 23.3	1.965	2.901	8.6	21.0
4 21	11 39.37	+ 3 3.3	2.029	2.895	12.1	21.2

133013 2002 US_{22} 3 20.7 197°.35 3°.6/25.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.06	−14 46.6	2.608	3.322	13.3	20.2
2 21	12 19.39	−14 46.1	2.503	3.320	11.1	20.0
3 2	12 13.96	−14 28.5	2.420	3.317	8.5	19.8
3 12	12 7.22	−13 54.2	2.362	3.314	5.8	19.6
3 22	11 59.78	−13 5.2	2.332	3.311	3.8	19.5
4 1	11 52.37	−12 5.5	2.331	3.308	4.3	19.5
4 11	11 45.72	−11 0.7	2.359	3.304	6.8	19.7
4 21	11 40.41	− 9 56.2	2.413	3.300	9.6	19.8

73154 2002 GD_{110} 3 20.7 258°.38 0°.6/21.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.92	− 4 38.9	1.757	2.541	16.3	20.3
2 21	12 22.59	− 4 17.3	1.653	2.525	13.1	20.1
3 2	12 16.68	− 3 37.4	1.570	2.509	9.1	19.8
3 12	12 8.72	− 2 41.8	1.512	2.493	4.6	19.5
3 22	11 59.53	− 1 35.7	1.480	2.477	0.7	19.1
4 1	11 50.25	− 0 26.8	1.477	2.460	5.5	19.4
4 11	11 42.05	+ 0 36.6	1.500	2.442	10.2	19.7
4 21	11 35.84	+ 1 27.9	1.547	2.425	14.5	19.9

154500 2003 FZ_{26} 3 20.7 87°.22 1°.1/21.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.82	− 8 34.9	1.835	2.608	16.1	20.3
2 21	12 19.02	− 7 43.4	1.750	2.614	12.9	20.1
3 2	12 13.98	− 6 29.5	1.686	2.620	9.1	19.8
3 12	12 7.30	− 4 57.3	1.648	2.627	4.7	19.6
3 22	11 59.78	− 3 13.6	1.637	2.633	1.1	19.3
4 1	11 52.43	− 1 27.3	1.655	2.639	4.8	19.6
4 11	11 46.17	+ 0 11.8	1.701	2.646	9.1	19.9
4 21	11 41.72	+ 1 36.6	1.771	2.652	12.8	20.1

466189 2012 KS_{28} 3 20.7 266°.71 0°.0/20.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.04	− 3 40.7	2.043	2.823	14.4	22.0
2 21	12 20.75	− 3 5.8	1.931	2.802	11.5	21.8
3 2	12 15.25	− 2 14.4	1.841	2.781	7.9	21.5
3 12	12 7.98	− 1 9.4	1.777	2.759	3.8	21.2
3 22	11 59.66	+ 0 3.8	1.741	2.737	0.6	20.9
4 1	11 51.23	+ 1 18.2	1.734	2.715	5.1	21.2
4 11	11 43.68	+ 2 26.2	1.755	2.692	9.4	21.4
4 21	11 37.80	+ 3 21.9	1.800	2.669	13.3	21.6

6777 Balakirev 3 20.7 120°.42 0°.8/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.18	+ 0 16.8	2.813	3.590	11.0	18.8
2 21	12 19.12	+ 0 52.2	2.733	3.605	8.5	18.7
3 2	12 13.56	+ 1 36.2	2.678	3.621	5.6	18.5
3 12	12 6.95	+ 2 25.2	2.652	3.635	2.6	18.3
3 22	11 59.86	+ 3 15.1	2.655	3.650	1.1	18.2
4 1	11 52.91	+ 4 1.7	2.689	3.664	4.0	18.4
4 11	11 46.72	+ 4 41.1	2.752	3.677	6.9	18.6
4 21	11 41.75	+ 5 10.6	2.841	3.690	9.5	18.8

328583 2009 SY_{45} 3 20.7 209°.63 1°.0/19.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.45	+ 0 49.5	2.291	3.073	13.0	22.0
2 21	12 22.99	+ 1 13.5	2.193	3.067	10.2	21.8
3 2	12 16.49	+ 1 47.8	2.118	3.060	6.9	21.6
3 12	12 8.47	+ 2 28.5	2.070	3.053	3.2	21.3
3 22	11 59.62	+ 3 11.1	2.051	3.046	1.3	21.2
4 1	11 50.80	+ 3 50.5	2.062	3.038	5.0	21.4
4 11	11 42.89	+ 4 21.8	2.102	3.029	8.7	21.6
4 21	11 36.55	+ 4 41.9	2.167	3.020	11.9	21.8

457670 2009 DX_{46} 3 20.7 354°.40 2°.6/22.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.99	− 3 39.3	1.130	1.950	21.3	20.3
2 21	12 23.83	− 4 30.3	1.053	1.943	17.3	20.0
3 2	12 18.15	− 5 5.0	0.993	1.938	12.4	19.7
3 12	12 9.60	− 5 23.7	0.954	1.934	6.8	19.3
3 22	11 59.42	− 5 28.7	0.938	1.932	2.6	19.1
4 1	11 49.30	− 5 25.1	0.945	1.931	6.8	19.3
4 11	11 40.96	− 5 20.1	0.974	1.932	12.4	19.6
4 21	11 35.57	− 5 20.2	1.024	1.934	17.4	19.9

37725 1996 TA_{35} 3 20.7 218°.75 2°.7/23.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.04	− 9 42.3	1.973	2.723	15.9	19.5
2 21	12 23.94	− 9 42.9	1.869	2.715	13.0	19.3
3 2	12 17.42	− 9 25.1	1.786	2.706	9.6	19.1
3 12	12 9.02	− 8 49.5	1.727	2.697	5.7	18.8
3 22	11 59.53	− 7 59.3	1.696	2.687	2.8	18.6
4 1	11 49.99	− 6 59.9	1.694	2.676	4.9	18.7
4 11	11 41.47	− 5 58.5	1.719	2.665	8.9	18.9
4 21	11 34.82	− 5 1.9	1.770	2.653	12.7	19.1

37148 2000 VF_{49} 3 20.7 200°.63 0°.0/20.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.77	− 2 22.4	3.087	3.852	10.4	19.7
2 21	12 18.79	− 2 0.0	2.985	3.848	8.2	19.6
3 2	12 13.37	− 1 28.4	2.907	3.843	5.6	19.4
3 12	12 6.90	− 0 50.1	2.857	3.838	2.7	19.2
3 22	11 59.88	− 0 8.2	2.837	3.833	0.4	19.0
4 1	11 52.89	+ 0 33.6	2.848	3.827	3.4	19.2
4 11	11 46.53	+ 1 11.5	2.889	3.821	6.3	19.4
4 21	11 41.25	+ 1 42.5	2.956	3.815	8.9	19.6

102412 1999 TZ_{179} 3 20.7 102°.84 0°.1/20.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.59	− 3 8.9	1.757	2.542	16.3	20.1
2 21	12 23.47	− 2 37.5	1.685	2.559	12.8	19.9
3 2	12 16.95	− 1 50.1	1.634	2.576	8.7	19.7
3 12	12 8.68	− 0 50.9	1.609	2.592	4.1	19.5
3 22	11 59.61	+ 0 13.5	1.612	2.608	0.7	19.2
4 1	11 50.82	+ 1 15.8	1.643	2.623	5.3	19.6
4 11	11 43.33	+ 2 9.0	1.701	2.638	9.6	19.9
4 21	11 37.84	+ 2 48.5	1.782	2.653	13.3	20.1

139618 2001 QW_{138} 3 20.7 91°.30 3°.8/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.86	−10 59.8	1.927	2.667	16.6	18.7
2 21	12 25.91	−11 30.8	1.849	2.686	13.6	18.6
3 2	12 18.55	−11 44.2	1.793	2.704	10.1	18.4
3 12	12 9.45	−11 40.1	1.761	2.723	6.5	18.2
3 22	11 59.50	−11 20.5	1.756	2.741	3.9	18.1
4 1	11 49.78	−10 49.7	1.780	2.759	5.2	18.2
4 11	11 41.32	−10 13.6	1.832	2.777	8.5	18.4
4 21	11 34.84	− 9 38.5	1.909	2.794	11.8	18.7

167075 2003 RY_{14} 3 20.7 239°.29 0°.5/20.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.32	− 1 11.4	1.875	2.661	15.4	21.3
2 21	12 24.27	− 0 48.2	1.772	2.648	12.2	21.1
3 2	12 17.73	− 0 10.6	1.691	2.634	8.3	20.8
3 12	12 9.20	+ 0 37.6	1.636	2.620	3.9	20.5
3 22	11 59.53	+ 1 31.2	1.609	2.605	1.0	20.3
4 1	11 49.79	+ 2 23.3	1.610	2.589	5.7	20.6
4 11	11 41.12	+ 3 7.2	1.639	2.573	10.1	20.8
4 21	11 34.37	+ 3 38.0	1.691	2.556	14.1	21.0

149202 2002 PG_{63} 3 20.7 300°.37 2°.0/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.44	+ 0 51.0	1.245	2.070	19.4	19.9
2 21	12 23.15	+ 1 24.2	1.160	2.059	15.3	19.6
3 2	12 17.58	+ 2 16.4	1.093	2.047	10.4	19.3
3 12	12 9.33	+ 3 21.6	1.049	2.035	4.9	19.0
3 22	11 59.50	+ 4 30.6	1.030	2.024	2.6	18.8
4 1	11 49.65	+ 5 32.4	1.035	2.013	8.1	19.1
4 11	11 41.38	+ 6 17.2	1.063	2.002	13.7	19.3
4 21	11 35.81	+ 6 39.4	1.110	1.992	18.7	19.6

299968 2006 TV_{90} 3 20.7 189°.41 3°.5/16.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.62	+11 17.6	2.778	3.576	10.6	21.4
2 21	12 21.13	+11 56.0	2.692	3.575	8.2	21.2
3 2	12 15.00	+12 36.6	2.632	3.574	5.7	21.0
3 12	12 7.69	+13 14.8	2.600	3.573	3.8	20.9
3 22	11 59.79	+13 46.3	2.597	3.571	4.0	20.9
4 1	11 52.01	+14 7.0	2.624	3.569	6.1	21.0
4 11	11 45.01	+14 14.6	2.679	3.566	8.7	21.2
4 21	11 39.31	+14 8.2	2.759	3.563	11.0	21.3

197544 2004 FP_{11} 3 20.7 357°.52 3°.3/23.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.33	−10 16.5	2.055	2.807	15.3	19.8
2 21	12 20.86	−10 37.6	1.961	2.805	12.6	19.6
3 2	12 15.21	−10 42.4	1.887	2.805	9.3	19.4
3 12	12 7.92	−10 31.2	1.838	2.804	5.9	19.2
3 22	11 59.74	−10 6.0	1.816	2.804	3.4	19.1
4 1	11 51.61	− 9 31.0	1.822	2.804	4.8	19.2
4 11	11 44.45	− 8 51.8	1.856	2.804	8.1	19.4
4 21	11 38.99	− 8 14.2	1.914	2.805	11.5	19.6

407677 2011 UQ_{28} 3 20.7 245°.76 0°.1/20.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.65	− 1 26.3	1.642	2.434	16.9	21.5
2 21	12 25.65	− 1 20.3	1.546	2.424	13.5	21.2
3 2	12 18.84	− 0 59.7	1.471	2.414	9.3	21.0
3 12	12 9.79	− 0 27.8	1.421	2.404	4.5	20.7
3 22	11 59.45	+ 0 10.5	1.397	2.394	0.7	20.3
4 1	11 49.08	+ 0 48.4	1.402	2.383	5.9	20.7
4 11	11 39.97	+ 1 19.1	1.432	2.372	10.8	20.9
4 21	11 33.10	+ 1 37.6	1.485	2.360	15.2	21.2

498037 2007 HY_{61} 3 20.7 6°.00 0°.8/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.78	− 1 10.4	1.813	2.610	15.4	21.4
2 21	12 20.61	− 0 37.1	1.728	2.610	12.1	21.2
3 2	12 15.12	+ 0 11.0	1.664	2.610	8.1	21.0
3 12	12 7.89	+ 1 9.4	1.626	2.611	3.8	20.7
3 22	11 59.76	+ 2 11.7	1.616	2.611	1.2	20.5
4 1	11 51.74	+ 3 10.9	1.633	2.611	5.6	20.8
4 11	11 44.84	+ 4 0.0	1.676	2.612	9.8	21.0
4 21	11 39.80	+ 4 34.6	1.743	2.613	13.6	21.3

503693 2016 JG_4 3 20.7 343°.67 2°.9/23.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 19.33	−11 1.4	1.558	2.337	18.3	20.9
2 21	12 17.65	−10 43.6	1.467	2.330	15.0	20.6
3 2	12 13.41	− 9 59.9	1.395	2.324	11.0	20.3
3 12	12 7.19	− 8 51.8	1.346	2.319	6.6	20.1
3 22	11 59.86	− 7 24.5	1.322	2.314	3.0	19.8
4 1	11 52.58	− 5 46.8	1.324	2.310	5.3	20.0
4 11	11 46.51	− 4 9.7	1.352	2.307	9.9	20.2
4 21	11 42.49	− 2 43.1	1.403	2.304	14.2	20.5

458885 2011 UU_{166} 3 20.7 109°.88 4°.2/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.01	+ 6 14.5	1.694	2.506	15.6	21.5
2 21	12 23.86	+ 7 34.3	1.631	2.524	12.0	21.3
3 2	12 17.23	+ 9 3.9	1.592	2.541	8.1	21.1
3 12	12 8.83	+10 34.4	1.579	2.558	4.7	20.9
3 22	11 59.64	+11 56.5	1.594	2.575	4.9	21.0
4 1	11 50.80	+13 1.8	1.636	2.591	8.2	21.2
4 11	11 43.33	+13 45.3	1.704	2.606	11.9	21.5
4 21	11 37.94	+14 5.6	1.794	2.621	15.1	21.7

96428 1998 FB_{43} 3 20.7 38°.00 1°.0/21.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.74	− 3 25.6	1.346	2.149	19.4	19.4
2 21	12 24.43	− 3 33.5	1.275	2.157	15.4	19.1
3 2	12 18.07	− 3 23.4	1.223	2.166	10.7	18.9
3 12	12 9.38	− 2 58.4	1.193	2.175	5.4	18.6
3 22	11 59.55	− 2 23.9	1.189	2.185	1.1	18.3
4 1	11 49.99	− 1 47.2	1.211	2.195	6.0	18.7
4 11	11 42.07	− 1 16.0	1.257	2.206	11.1	19.0
4 21	11 36.68	− 0 55.9	1.325	2.217	15.5	19.3

54432 2000 LG_{31} 3 20.7 243°.40 5°.9/26.2 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.90	−17 45.3	2.219	2.918	15.7	18.3
2 21	12 23.75	−18 24.2	2.106	2.905	13.5	18.1
3 2	12 17.30	−18 44.6	2.011	2.891	10.9	17.9
3 12	12 9.01	−18 44.4	1.941	2.876	8.1	17.7
3 22	11 59.59	−18 23.3	1.897	2.862	6.1	17.6
4 1	11 50.02	−17 43.7	1.880	2.846	6.3	17.5
4 11	11 41.31	−16 51.2	1.892	2.831	8.7	17.6
4 21	11 34.32	−15 52.7	1.928	2.815	11.7	17.8

8779 1971 UH_1 3 20.7 207°.93 1°.0/19.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.63	+ 1 25.2	2.995	3.774	10.3	19.2
2 21	12 18.74	+ 1 58.1	2.895	3.769	8.0	19.1
3 2	12 13.38	+ 2 38.7	2.820	3.763	5.4	18.9
3 12	12 6.94	+ 3 24.1	2.773	3.757	2.5	18.7
3 22	11 59.94	+ 4 10.3	2.757	3.750	1.3	18.6
4 1	11 52.97	+ 4 53.3	2.771	3.743	4.1	18.8
4 11	11 46.65	+ 5 29.4	2.814	3.736	6.9	18.9
4 21	11 41.44	+ 5 56.0	2.883	3.728	9.5	19.1

129966 Michaelward 3 20.7 242°.18 0°.1/20.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.64	− 2 5.4	2.018	2.795	14.7	20.7
2 21	12 24.38	− 1 47.2	1.909	2.779	11.7	20.4
3 2	12 17.75	− 1 15.2	1.822	2.762	8.1	20.2
3 12	12 9.22	− 0 32.3	1.761	2.744	3.9	19.9
3 22	11 59.57	+ 0 16.8	1.729	2.725	0.6	19.6
4 1	11 49.82	+ 1 6.1	1.726	2.706	5.2	19.9
4 11	11 41.03	+ 1 49.1	1.751	2.686	9.5	20.1
4 21	11 34.04	+ 2 21.1	1.801	2.665	13.4	20.3

222338 2000 UN_{103} 3 20.7 98°.38 2°.8/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.47	+ 6 50.1	2.222	3.014	13.1	21.0
2 21	12 25.04	+ 7 26.4	2.161	3.042	10.0	20.8
3 2	12 17.65	+ 8 7.8	2.124	3.069	6.7	20.7
3 12	12 8.92	+ 8 49.2	2.114	3.095	3.6	20.5
3 22	11 59.66	+ 9 25.2	2.135	3.120	3.2	20.5
4 1	11 50.75	+ 9 51.4	2.185	3.145	6.0	20.8
4 11	11 42.99	+10 4.7	2.263	3.170	9.1	21.0
4 21	11 36.93	+10 4.1	2.365	3.194	11.9	21.2

211033 2002 AH_{165} 3 20.7 91°.05 2°.7/22.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.63	− 8 51.1	1.555	2.326	18.6	20.9
2 21	12 24.71	− 8 52.1	1.482	2.341	15.1	20.7
3 2	12 18.02	− 8 31.6	1.428	2.357	10.8	20.5
3 12	12 9.30	− 7 51.5	1.398	2.372	6.2	20.3
3 22	11 59.59	− 6 56.6	1.394	2.387	2.7	20.1
4 1	11 50.16	− 5 54.2	1.417	2.401	5.4	20.3
4 11	11 42.21	− 4 53.2	1.467	2.416	9.8	20.6
4 21	11 36.54	− 4 0.7	1.539	2.430	13.8	20.9

131505 2001 SK_{283} 3 20.7 69°.58 3°.2/18.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.37	+ 3 43.7	1.346	2.166	18.5	19.8
2 21	12 25.43	+ 4 34.6	1.292	2.188	14.3	19.6
3 2	12 18.51	+ 5 38.2	1.258	2.210	9.5	19.3
3 12	12 9.48	+ 6 46.2	1.248	2.232	4.7	19.1
3 22	11 59.58	+ 7 48.9	1.264	2.254	3.8	19.1
4 1	11 50.19	+ 8 37.5	1.306	2.276	8.0	19.4
4 11	11 42.56	+ 9 6.4	1.372	2.298	12.4	19.7
4 21	11 37.44	+ 9 13.8	1.460	2.319	16.3	20.0

143566 2003 EP_{51} 3 20.7 290°.28 1°.0/19.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.64	+ 0 52.3	2.320	3.111	12.6	19.8
2 21	12 19.30	+ 1 19.6	2.217	3.096	9.9	19.6
3 2	12 14.05	+ 1 57.4	2.137	3.082	6.6	19.4
3 12	12 7.37	+ 2 41.8	2.084	3.068	3.1	19.1
3 22	11 59.88	+ 3 28.4	2.059	3.054	1.4	19.0
4 1	11 52.39	+ 4 11.9	2.064	3.040	4.9	19.2
4 11	11 45.70	+ 4 47.2	2.096	3.026	8.5	19.4
4 21	11 40.45	+ 5 11.1	2.153	3.012	11.8	19.6

155227 2005 VD_{71} 3 20.7 108°.07 2°.7/18.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.18	+ 4 9.2	1.854	2.661	14.7	20.2
2 21	12 21.63	+ 4 54.9	1.773	2.663	11.4	20.0
3 2	12 15.77	+ 5 50.9	1.715	2.664	7.6	19.7
3 12	12 8.20	+ 6 51.4	1.683	2.666	3.8	19.5
3 22	11 59.76	+ 7 49.3	1.678	2.668	3.2	19.5
4 1	11 51.48	+ 8 37.5	1.702	2.669	6.7	19.7
4 11	11 44.34	+ 9 10.8	1.751	2.671	10.6	19.9
4 21	11 39.06	+ 9 26.5	1.824	2.672	14.0	20.1

236869 2007 RQ_{227} 3 20.7 169°.33 2°.4/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.07	+ 6 32.7	2.553	3.346	11.5	20.7
2 21	12 21.62	+ 7 3.9	2.467	3.349	8.9	20.5
3 2	12 15.41	+ 7 40.4	2.405	3.351	6.0	20.3
3 12	12 7.93	+ 8 18.0	2.372	3.353	3.2	20.1
3 22	11 59.82	+ 8 52.0	2.368	3.354	2.8	20.1
4 1	11 51.84	+ 9 18.3	2.394	3.356	5.5	20.3
4 11	11 44.71	+ 9 33.5	2.448	3.357	8.4	20.5
4 21	11 38.97	+ 9 36.2	2.526	3.357	11.1	20.6

110676 2001 TC_{196} 3 20.7 114°.70 3°.5/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.16	+ 4 21.7	1.899	2.709	14.3	19.9
2 21	12 19.95	+ 5 51.6	1.825	2.718	11.0	19.7
3 2	12 14.57	+ 7 33.4	1.775	2.726	7.3	19.5
3 12	12 7.61	+ 9 19.2	1.752	2.734	4.1	19.3
3 22	11 59.88	+10 59.7	1.758	2.741	4.2	19.3
4 1	11 52.32	+12 26.4	1.793	2.749	7.5	19.5
4 11	11 45.87	+13 33.0	1.853	2.756	11.0	19.7
4 21	11 41.17	+14 16.7	1.937	2.763	14.2	19.9

47430 1999 XK_{173} 3 20.7 60°.52 1°.4/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.67	− 4 35.6	1.555	2.342	17.9	18.4
2 21	12 24.76	− 4 44.8	1.480	2.352	14.3	18.2
3 2	12 18.09	− 4 37.3	1.425	2.363	10.0	18.0
3 12	12 9.36	− 4 15.4	1.394	2.374	5.2	17.7
3 22	11 59.62	− 3 43.5	1.390	2.385	1.4	17.5
4 1	11 50.12	− 3 8.0	1.412	2.396	5.4	17.8
4 11	11 42.07	− 2 35.6	1.461	2.408	10.0	18.1
4 21	11 36.30	− 2 11.9	1.532	2.419	14.1	18.3

489164 2006 FW_2 3 20.7 90°.73 3°.1/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.42	−17 29.8	1.215	1.980	23.1	20.7
2 21	12 20.66	−16 0.4	1.138	1.991	19.1	20.4
3 2	12 15.71	−13 44.4	1.079	2.002	14.1	20.2
3 12	12 8.34	−10 45.4	1.041	2.012	8.4	19.9
3 22	11 59.77	− 7 16.0	1.030	2.022	3.3	19.6
4 1	11 51.51	− 3 36.7	1.046	2.033	6.2	19.8
4 11	11 44.97	− 0 10.9	1.089	2.043	11.8	20.2
4 21	11 41.07	+ 2 44.6	1.156	2.052	16.9	20.5

424137 2007 FU_{36} 3 20.7 188°.39 2°.0/18.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.54	+ 1 38.8	1.980	2.780	14.1	21.7
2 21	12 20.23	+ 2 33.4	1.894	2.780	11.0	21.5
3 2	12 14.78	+ 3 40.7	1.831	2.780	7.3	21.3
3 12	12 7.73	+ 4 55.0	1.795	2.779	3.5	21.0
3 22	11 59.87	+ 6 9.5	1.787	2.779	2.5	21.0
4 1	11 52.11	+ 7 16.6	1.807	2.778	6.1	21.2
4 11	11 45.37	+ 8 10.3	1.855	2.777	9.9	21.4
4 21	11 40.33	+ 8 46.8	1.926	2.776	13.3	21.6

275071 2009 UZ_{137} 3 20.7 197°.56 1°.8/22.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.18	− 8 30.3	2.502	3.245	13.1	21.6
2 21	12 21.88	− 8 19.7	2.398	3.242	10.6	21.4
3 2	12 15.71	− 7 54.4	2.316	3.238	7.6	21.2
3 12	12 8.14	− 7 16.0	2.261	3.233	4.4	21.0
3 22	11 59.80	− 6 27.6	2.235	3.227	1.9	20.8
4 1	11 51.49	− 5 33.6	2.239	3.221	3.9	21.0
4 11	11 43.97	− 4 39.5	2.272	3.215	7.2	21.1
4 21	11 37.89	− 3 50.3	2.332	3.207	10.4	21.3

369549 2011 AP_{46} 3 20.7 128°.88 2°.5/17.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.79	+ 3 24.3	2.009	2.810	13.9	21.3
2 21	12 21.09	+ 4 23.5	1.931	2.818	10.7	21.1
3 2	12 15.28	+ 5 33.5	1.877	2.826	7.1	20.8
3 12	12 7.93	+ 6 48.0	1.850	2.834	3.6	20.6
3 22	11 59.84	+ 7 59.9	1.852	2.841	3.1	20.6
4 1	11 51.93	+ 9 2.4	1.882	2.848	6.4	20.8
4 11	11 45.09	+ 9 49.8	1.940	2.855	10.0	21.1
4 21	11 39.95	+10 19.4	2.020	2.861	13.2	21.3

454118 2013 CV_{89} 3 20.7 67°.97 5°.4/16.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.81	+ 8 13.6	1.399	2.229	17.4	20.7
2 21	12 23.59	+ 9 26.5	1.333	2.235	13.5	20.5
3 2	12 17.43	+10 49.2	1.289	2.241	9.3	20.2
3 12	12 9.08	+12 11.6	1.269	2.247	5.8	20.0
3 22	11 59.67	+13 22.9	1.274	2.254	6.2	20.1
4 1	11 50.56	+14 13.7	1.305	2.260	9.8	20.3
4 11	11 43.04	+14 38.6	1.359	2.266	13.9	20.5
4 21	11 37.95	+14 37.0	1.433	2.273	17.6	20.8

503030 2015 FM_{141} 3 20.7 102°.99 1°.7/18.8 17

2 11	12 25.02	+ 2 58.4	2.318	3.110	12.6	21.3
2 21	12 20.92	+ 3 31.6	2.241	3.123	9.7	21.2
3 2	12 14.98	+ 4 13.1	2.188	3.135	6.5	21.0
3 12	12 7.74	+ 4 58.5	2.163	3.147	3.1	20.8
3 22	11 59.88	+ 5 42.8	2.166	3.158	2.0	20.7
4 1	11 52.20	+ 6 21.0	2.199	3.170	5.1	20.9
4 11	11 45.47	+ 6 49.1	2.260	3.181	8.4	21.2
4 21	11 40.24	+ 7 4.7	2.345	3.192	11.3	21.4

423751 2006 CF_{47} 3 20.7 15°.34 1°.5/21.9 17

2 11	12 25.89	− 5 15.6	1.823	2.602	16.0	21.1
2 21	12 22.29	− 5 21.3	1.736	2.603	12.8	20.9
3 2	12 16.31	− 5 11.6	1.669	2.604	9.0	20.7
3 12	12 8.51	− 4 48.5	1.627	2.606	4.8	20.4
3 22	11 59.75	− 4 15.8	1.612	2.607	1.5	20.2
4 1	11 51.09	− 3 38.9	1.625	2.609	4.8	20.5
4 11	11 43.58	− 3 3.8	1.665	2.612	9.1	20.7
4 21	11 37.98	− 2 36.0	1.729	2.614	12.9	20.9

501208 2013 TS_{141} 3 20.7 148°.42 2°.1/18.6 17

2 11	12 29.42	+ 5 5.7	2.317	3.105	12.7	22.5
2 21	12 24.36	+ 5 27.3	2.234	3.113	9.9	22.4
3 2	12 17.33	+ 5 55.2	2.175	3.120	6.6	22.2
3 12	12 8.86	+ 6 25.2	2.144	3.127	3.3	22.0
3 22	11 59.71	+ 6 52.7	2.143	3.133	2.4	21.9
4 1	11 50.73	+ 7 13.3	2.171	3.139	5.5	22.1
4 11	11 42.76	+ 7 23.6	2.228	3.145	8.8	22.3
4 21	11 36.39	+ 7 22.0	2.310	3.150	11.7	22.5

100123 1993 QU_{5} 3 20.7 212°.97 0°.8/19.8 17

2 11	12 25.08	− 1 38.8	2.293	3.071	13.1	20.7
2 21	12 21.20	− 0 49.8	2.191	3.063	10.3	20.5
3 2	12 15.35	+ 0 13.0	2.113	3.055	7.0	20.3
3 12	12 8.00	+ 1 25.6	2.062	3.046	3.2	20.0
3 22	11 59.83	+ 2 42.3	2.041	3.036	1.2	19.8
4 1	11 51.67	+ 3 56.5	2.050	3.026	5.0	20.1
4 11	11 44.37	+ 5 1.9	2.088	3.015	8.7	20.3
4 21	11 38.58	+ 5 53.9	2.150	3.003	12.0	20.5

236739 2007 JZ_{24} 3 20.7 232°.16 2°.7/18.4 17

2 11	12 29.18	+ 3 42.0	1.673	2.479	16.1	21.8
2 21	12 25.21	+ 4 23.3	1.581	2.469	12.6	21.5
3 2	12 18.51	+ 5 17.1	1.511	2.460	8.5	21.2
3 12	12 9.65	+ 6 17.3	1.466	2.449	4.2	21.0
3 22	11 59.58	+ 7 16.1	1.448	2.439	3.3	20.9
4 1	11 49.53	+ 8 5.6	1.458	2.427	7.4	21.1
4 11	11 40.73	+ 8 39.1	1.493	2.415	11.9	21.3
4 21	11 34.11	+ 8 53.2	1.551	2.403	15.9	21.5

239757 2010 AG_{74} 3 20.7 95°.19 2°.3/22.5 18

2 11	12 28.20	− 8 14.5	1.385	2.169	19.9	20.8
2 21	12 24.74	− 8 5.0	1.313	2.181	16.1	20.6
3 2	12 18.26	− 7 31.4	1.259	2.193	11.4	20.3
3 12	12 9.51	− 6 36.4	1.228	2.205	6.3	20.0
3 22	11 59.63	− 5 25.9	1.222	2.217	2.3	19.8
4 1	11 50.03	− 4 9.4	1.243	2.228	5.8	20.1
4 11	11 42.05	− 2 57.2	1.289	2.239	10.7	20.4
4 21	11 36.57	− 1 57.5	1.358	2.250	15.2	20.7

13765 Nansmith 3 20.7 121°.72 0°.5/21.2 18

2 11	12 24.41	− 3 59.1	2.187	2.961	13.8	19.4
2 21	12 20.66	− 3 39.4	2.100	2.967	10.9	19.3
3 2	12 14.94	− 3 6.2	2.035	2.972	7.5	19.1
3 12	12 7.78	− 2 22.3	1.997	2.978	3.7	18.8
3 22	11 59.89	− 1 32.4	1.987	2.983	0.6	18.6
4 1	11 52.12	− 0 41.7	2.006	2.988	4.3	18.9
4 11	11 45.30	+ 0 4.1	2.054	2.993	8.0	19.1
4 21	11 40.05	+ 0 40.7	2.126	2.998	11.3	19.3

44064 1998 FN_{53} 3 20.7 123°.59 1°.6/21.9 18

2 11	12 28.12	− 7 8.2	1.451	2.235	19.1	18.5
2 21	12 24.60	− 6 50.3	1.373	2.243	15.4	18.3
3 2	12 18.14	− 6 9.5	1.315	2.251	10.8	18.0
3 12	12 9.46	− 5 9.0	1.280	2.259	5.7	17.8
3 22	11 59.64	− 3 55.0	1.271	2.267	1.6	17.5
4 1	11 50.03	− 2 36.9	1.289	2.274	5.7	17.8
4 11	11 41.95	− 1 24.6	1.333	2.281	10.7	18.1
4 21	11 36.28	− 0 26.0	1.399	2.287	15.1	18.4

344341 2001 WR_{8} 3 20.7 178°.66 7°.8/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 28.82	+32 19.6	3.201	3.977	9.8	22.0
2 21	12 23.56	+33 32.4	3.146	3.978	8.6	21.9
3 2	12 16.61	+34 36.3	3.116	3.980	7.9	21.8
3 12	12 8.48	+35 25.2	3.113	3.980	7.9	21.8
3 22	11 59.80	+35 54.9	3.135	3.980	8.6	21.9
4 1	11 51.32	+36 2.8	3.183	3.980	9.7	21.9
4 11	11 43.72	+35 48.9	3.254	3.979	11.0	22.0
4 21	11 37.52	+35 14.9	3.344	3.977	12.3	22.2

238506 2004 TH_{8} 3 20.7 174°.10 0°.8/19.9 18

2 11	12 28.07	− 1 36.3	1.886	2.671	15.3	21.6
2 21	12 23.89	− 0 54.6	1.799	2.674	12.0	21.3
3 2	12 17.33	+ 0 2.4	1.734	2.677	8.1	21.1
3 12	12 8.99	+ 1 10.1	1.695	2.679	3.8	20.8
3 22	11 59.73	+ 2 21.8	1.684	2.680	1.2	20.6
4 1	11 50.59	+ 3 30.1	1.703	2.680	5.6	20.9
4 11	11 42.59	+ 4 27.9	1.749	2.680	9.8	21.2
4 21	11 36.50	+ 5 10.6	1.819	2.679	13.5	21.4

468242 2015 BP_{245} 3 20.7 179°.21 2°.3/23.2 17

2 11	12 26.26	− 9 21.3	2.308	3.052	14.0	21.9
2 21	12 22.09	− 9 19.2	2.210	3.053	11.4	21.7
3 2	12 15.94	− 9 1.5	2.134	3.054	8.3	21.5
3 12	12 8.29	− 8 29.3	2.085	3.054	4.9	21.3
3 22	11 59.84	− 7 45.7	2.063	3.054	2.4	21.2
4 1	11 51.46	− 6 55.2	2.071	3.054	4.2	21.3
4 11	11 43.97	− 6 3.5	2.108	3.053	7.6	21.5
4 21	11 38.03	− 5 16.0	2.171	3.051	10.8	21.7

365103 2009 BJ_{178} 3 20.7 81°.19 0°.5/21.1 18

2 11	12 29.74	− 3 54.6	1.509	2.299	18.3	21.8
2 21	12 25.50	− 3 36.7	1.446	2.321	14.4	21.6
3 2	12 18.50	− 3 0.9	1.402	2.343	9.9	21.4
3 12	12 9.53	− 2 11.2	1.383	2.365	4.8	21.2
3 22	11 59.67	− 1 14.3	1.390	2.386	0.7	20.9
4 1	11 50.23	− 0 18.1	1.424	2.407	5.6	21.3
4 11	11 42.35	+ 0 29.7	1.485	2.428	10.3	21.6
4 21	11 36.80	+ 1 4.0	1.569	2.448	14.2	21.9

375864 2009 VZ_{33} 3 20.7 233°.93 0°.5/21.2 17

2 11	12 25.47	− 3 41.1	1.924	2.706	15.2	20.9
2 21	12 21.86	− 3 27.9	1.833	2.704	12.1	20.7
3 2	12 15.97	− 2 59.9	1.763	2.702	8.3	20.5
3 12	12 8.36	− 2 20.1	1.719	2.701	4.1	20.2
3 22	11 59.83	− 1 33.0	1.703	2.699	0.6	19.9
4 1	11 51.38	− 0 44.6	1.715	2.697	4.9	20.2
4 11	11 43.98	− 0 1.4	1.754	2.695	9.0	20.5
4 21	11 38.39	+ 0 31.9	1.817	2.693	12.8	20.7

303798 2005 SJ_{30} 3 20.7 215°.19 0°.9/19.4 18

2 11	12 22.30	+ 0 50.6	3.000	3.778	10.3	21.7
2 21	12 18.53	+ 1 24.6	2.898	3.771	8.1	21.6
3 2	12 13.28	+ 2 6.9	2.821	3.764	5.4	21.4
3 12	12 6.95	+ 2 54.3	2.772	3.756	2.5	21.2
3 22	12 0.05	+ 3 43.0	2.754	3.748	1.2	21.0
4 1	11 53.19	+ 4 28.9	2.766	3.739	4.0	21.2
4 11	11 46.94	+ 5 8.2	2.807	3.730	6.9	21.4
4 21	11 41.81	+ 5 38.1	2.874	3.721	9.5	21.6

101809 1999 JW_{5} 3 20.7 40°.41 11°.6/ 1.5 18

2 11	12 18.83	−30 26.8	1.075	1.790	28.4	19.3
2 21	12 18.66	−30 43.2	1.003	1.795	25.4	19.0
3 2	12 14.86	−30 7.1	0.940	1.802	21.7	18.8
3 12	12 8.14	−28 30.3	0.893	1.808	17.5	18.6
3 22	11 59.86	−25 51.8	0.864	1.815	13.6	18.4
4 1	11 51.82	−22 22.0	0.856	1.823	11.6	18.3
4 11	11 45.77	−18 24.3	0.872	1.831	13.2	18.4
4 21	11 42.81	−14 26.2	0.910	1.839	17.0	18.6

37550 1981 EE_{31} 3 20.7 284°.41 0°.5/20.1 18

2 11	12 21.75	− 6 58.2	1.638	2.426	17.2	19.2
2 21	12 19.70	− 5 29.8	1.520	2.397	13.8	18.9
3 2	12 15.02	− 3 29.7	1.424	2.367	9.5	18.6
3 12	12 8.14	− 1 1.7	1.353	2.337	4.5	18.2
3 22	11 59.85	+ 1 44.7	1.311	2.306	1.2	17.9
4 1	11 51.29	+ 4 35.2	1.297	2.275	6.8	18.2
4 11	11 43.73	+ 7 14.1	1.311	2.244	12.2	18.4
4 21	11 38.20	+ 9 29.1	1.348	2.213	17.1	18.6

143445 2003 BV_{74} 3 20.7 344°.18 1°.1/19.7 17

2 11	12 27.10	+ 2 40.7	2.081	2.874	13.8	20.0
2 21	12 22.92	+ 2 41.6	1.991	2.871	10.8	19.8
3 2	12 16.58	+ 2 50.3	1.923	2.868	7.3	19.5
3 12	12 8.62	+ 3 3.5	1.881	2.865	3.4	19.3
3 22	11 59.81	+ 3 17.2	1.868	2.863	1.5	19.1
4 1	11 51.09	+ 3 27.0	1.883	2.860	5.2	19.4
4 11	11 43.40	+ 3 29.3	1.926	2.858	9.0	19.6
4 21	11 37.41	+ 3 21.7	1.994	2.857	12.4	19.8

250519 2004 OV_3 3 20.7 298°.97 2°.7/17.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 20.25	+ 3 56.1	2.239	3.045	12.5	20.7
2 21	12 17.58	+ 5 1.7	2.133	3.024	9.7	20.5
3 2	12 13.01	+ 6 18.8	2.052	3.002	6.5	20.2
3 12	12 6.96	+ 7 42.0	1.998	2.980	3.4	20.0
3 22	12 0.06	+ 9 4.5	1.972	2.959	3.3	20.0
4 1	11 53.10	+10 19.1	1.976	2.938	6.4	20.1
4 11	11 46.93	+11 19.6	2.006	2.916	9.9	20.3
4 21	11 42.20	+12 2.2	2.059	2.895	13.1	20.4

86937 2000 HB_{70} 3 20.7 253°.82 3°.1/23.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.52	− 9 31.2	1.735	2.494	17.4	20.0
2 21	12 24.85	− 9 41.1	1.625	2.477	14.4	19.7
3 2	12 18.42	− 9 31.2	1.536	2.459	10.6	19.5
3 12	12 9.73	− 9 1.5	1.470	2.441	6.4	19.2
3 22	11 59.62	− 8 14.6	1.431	2.422	3.2	18.9
4 1	11 49.31	− 7 16.0	1.419	2.402	5.5	19.0
4 11	11 40.09	− 6 13.9	1.434	2.382	10.1	19.2
4 21	11 32.98	− 5 16.5	1.473	2.362	14.4	19.4

311573 2006 GA_7 3 20.7 224°.08 3°.0/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.81	+ 4 31.3	1.902	2.704	14.6	21.4
2 21	12 23.81	+ 5 27.6	1.807	2.694	11.4	21.1
3 2	12 17.38	+ 6 35.4	1.736	2.684	7.7	20.9
3 12	12 9.08	+ 7 48.4	1.691	2.673	4.0	20.6
3 22	11 59.74	+ 8 59.1	1.674	2.661	3.6	20.6
4 1	11 50.41	+ 9 59.6	1.686	2.649	7.2	20.8
4 11	11 42.15	+10 43.6	1.724	2.636	11.2	21.0
4 21	11 35.79	+11 8.1	1.785	2.622	14.8	21.2

238770 2005 JN_{93} 3 20.7 357°.16 4°.2/25.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.90	−15 15.8	2.144	2.872	15.4	20.3
2 21	12 18.94	−15 19.5	2.048	2.872	12.9	20.1
3 2	12 13.93	−15 2.7	1.971	2.871	10.0	19.9
3 12	12 7.38	−14 25.5	1.918	2.871	6.8	19.7
3 22	12 0.00	−13 30.3	1.891	2.871	4.5	19.6
4 1	11 52.67	−12 21.9	1.893	2.871	5.0	19.6
4 11	11 46.27	−11 7.3	1.922	2.871	7.8	19.8
4 21	11 41.47	− 9 53.9	1.976	2.871	11.0	20.0

268018 2004 NU_{12} 3 20.7 274°.62 3°.1/17.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.62	+ 4 27.3	1.928	2.735	14.2	21.1
2 21	12 21.38	+ 5 24.3	1.823	2.714	11.1	20.9
3 2	12 15.81	+ 6 33.7	1.742	2.692	7.5	20.6
3 12	12 8.37	+ 7 49.3	1.687	2.669	4.0	20.3
3 22	11 59.84	+ 9 3.8	1.659	2.647	3.7	20.3
4 1	11 51.21	+10 8.8	1.660	2.624	7.3	20.4
4 11	11 43.53	+10 57.9	1.687	2.600	11.3	20.6
4 21	11 37.64	+11 27.0	1.737	2.577	15.0	20.8

509253 2006 UF_{40} 3 20.7 199°.31 0°.1/20.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.10	− 2 17.4	2.936	3.703	10.8	23.2
2 21	12 19.17	− 1 51.5	2.835	3.699	8.5	23.0
3 2	12 13.73	− 1 15.9	2.758	3.695	5.8	22.8
3 12	12 7.19	− 0 33.2	2.709	3.691	2.8	22.6
3 22	12 0.06	+ 0 13.2	2.690	3.686	0.4	22.4
4 1	11 52.97	+ 0 59.2	2.702	3.681	3.6	22.6
4 11	11 46.54	+ 1 40.7	2.743	3.675	6.6	22.8
4 21	11 41.26	+ 2 14.6	2.810	3.669	9.3	23.0

133533 2003 TR_8 3 20.7 225°.05 3°.9/17.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.80	+ 7 26.0	1.875	2.681	14.6	20.4
2 21	12 24.61	+ 8 20.3	1.784	2.673	11.4	20.2
3 2	12 17.94	+ 9 23.4	1.715	2.663	7.8	20.0
3 12	12 9.36	+10 28.3	1.674	2.653	4.6	19.7
3 22	11 59.73	+11 27.3	1.660	2.642	4.6	19.7
4 1	11 50.14	+12 13.1	1.674	2.631	7.9	19.9
4 11	11 41.69	+12 40.4	1.715	2.619	11.7	20.1
4 21	11 35.19	+12 47.3	1.778	2.607	15.2	20.3

508699 2017 UY_{19} 3 20.7 116°.59 0°.8/19.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.47	− 0 57.2	2.507	3.290	12.0	21.4
2 21	12 18.11	− 0 9.0	2.422	3.298	9.3	21.2
3 2	12 13.10	+ 0 50.5	2.362	3.305	6.2	21.0
3 12	12 6.90	+ 1 57.2	2.328	3.312	2.8	20.8
3 22	12 0.11	+ 3 5.9	2.325	3.319	1.2	20.7
4 1	11 53.44	+ 4 11.0	2.351	3.326	4.4	21.0
4 11	11 47.57	+ 5 7.6	2.405	3.333	7.7	21.2
4 21	11 43.01	+ 5 52.1	2.486	3.340	10.5	21.4

368185 2000 RU_{97} 3 20.7 126°.24 5°.4/27.5 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.87	−20 42.2	2.565	3.233	14.5	22.1
2 21	12 23.14	−21 1.2	2.477	3.252	12.4	22.0
3 2	12 16.52	−21 0.7	2.409	3.271	10.0	21.8
3 12	12 8.53	−20 40.0	2.365	3.288	7.6	21.7
3 22	11 59.87	−20 0.2	2.349	3.305	5.8	21.6
4 1	11 51.35	−19 4.6	2.361	3.321	5.7	21.6
4 11	11 43.76	−17 59.1	2.401	3.336	7.3	21.8
4 21	11 37.69	−16 49.8	2.469	3.351	9.6	21.9

499443 2010 ED_7 3 20.7 198°.97 1°.9/23.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 21.10	−12 36.1	3.050	3.771	11.4	21.7
2 21	12 17.61	−11 50.2	2.940	3.767	9.3	21.5
3 2	12 12.67	−10 48.0	2.853	3.763	6.9	21.4
3 12	12 6.68	− 9 31.4	2.794	3.759	4.2	21.2
3 22	12 0.15	− 8 3.9	2.764	3.754	2.0	21.0
4 1	11 53.65	− 6 30.3	2.767	3.749	3.2	21.1
4 11	11 47.79	− 4 56.7	2.800	3.744	6.0	21.3
4 21	11 43.02	− 3 28.1	2.862	3.738	8.6	21.4

468209 2015 BT_{60} 3 20.7 183°.83 1°.5/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.26	+ 1 40.7	2.183	2.974	13.3	21.4
2 21	12 21.38	+ 2 19.1	2.094	2.974	10.3	21.2
3 2	12 15.48	+ 3 8.1	2.028	2.974	6.9	21.0
3 12	12 8.09	+ 4 3.2	1.990	2.974	3.2	20.8
3 22	11 59.94	+ 4 58.8	1.980	2.973	1.9	20.7
4 1	11 51.88	+ 5 49.0	2.000	2.972	5.4	20.9
4 11	11 44.77	+ 6 28.6	2.047	2.971	9.0	21.1
4 21	11 39.24	+ 6 54.6	2.118	2.969	12.2	21.3

505984 2015 GX_{28} 3 20.7 86°.29 0°.7/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.85	+ 0 25.6	2.139	2.926	13.6	21.1
2 21	12 21.82	+ 0 42.1	2.055	2.933	10.7	20.9
3 2	12 15.75	+ 1 8.8	1.995	2.939	7.2	20.7
3 12	12 8.20	+ 1 42.1	1.961	2.945	3.3	20.4
3 22	11 59.93	+ 2 17.5	1.956	2.951	1.1	20.3
4 1	11 51.80	+ 2 49.8	1.980	2.958	4.9	20.6
4 11	11 44.67	+ 3 14.6	2.031	2.964	8.6	20.8
4 21	11 39.18	+ 3 28.8	2.107	2.970	11.8	21.0

338243 2002 TG_{134} 3 20.7 207°.04 2°.9/24.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.04	−12 53.5	2.564	3.290	13.2	21.2
2 21	12 19.45	−12 43.0	2.458	3.285	10.9	21.0
3 2	12 14.10	−12 15.6	2.374	3.281	8.2	20.8
3 12	12 7.43	−11 32.1	2.315	3.276	5.3	20.6
3 22	12 0.04	−10 35.3	2.285	3.271	3.1	20.5
4 1	11 52.67	− 9 29.4	2.285	3.265	4.0	20.5
4 11	11 46.05	− 8 20.4	2.313	3.260	6.9	20.7
4 21	11 40.79	− 7 13.9	2.368	3.253	9.8	20.9

415691 1993 SM_6 3 20.7 170°.00 0°.0/20.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.79	− 2 35.6	2.487	3.251	12.6	22.6
2 21	12 23.06	− 2 11.9	2.394	3.256	9.9	22.4
3 2	12 16.47	− 1 36.8	2.325	3.261	6.8	22.2
3 12	12 8.53	− 0 53.3	2.283	3.264	3.2	22.0
3 22	11 59.89	− 0 5.4	2.271	3.267	0.5	21.7
4 1	11 51.35	+ 0 42.0	2.290	3.269	4.2	22.0
4 11	11 43.68	+ 1 24.1	2.338	3.271	7.6	22.3
4 21	11 37.47	+ 1 57.2	2.412	3.271	10.7	22.5

140028 2001 SZ_{61} 3 20.7 158°.28 0°.5/21.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.73	− 5 38.1	2.607	3.369	12.1	20.5
2 21	12 18.29	− 4 59.1	2.513	3.373	9.6	20.4
3 2	12 13.22	− 4 6.5	2.443	3.377	6.6	20.2
3 12	12 6.97	− 3 3.2	2.400	3.380	3.3	20.0
3 22	12 0.13	− 1 53.6	2.387	3.383	0.6	19.7
4 1	11 53.37	− 0 43.1	2.404	3.386	3.7	20.0
4 11	11 47.36	+ 0 22.9	2.450	3.388	7.0	20.2
4 21	11 42.62	+ 1 19.9	2.523	3.391	9.9	20.4

338274 2002 TM_{303} 3 20.7 188°.66 0°.1/20.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.56	− 3 25.2	2.440	3.214	12.6	22.3
2 21	12 19.08	− 2 44.8	2.345	3.213	9.9	22.1
3 2	12 13.84	− 1 51.2	2.273	3.212	6.7	21.9
3 12	12 7.31	− 0 47.8	2.229	3.211	3.2	21.7
3 22	12 0.09	+ 0 20.6	2.214	3.210	0.5	21.5
4 1	11 52.95	+ 1 28.3	2.228	3.208	4.2	21.7
4 11	11 46.60	+ 2 29.7	2.272	3.206	7.7	22.0
4 21	11 41.62	+ 3 20.3	2.341	3.204	10.8	22.2

73545 2003 OB_{31} 3 20.7 220°.81 4°.3/25.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.08	−14 7.6	2.340	3.057	14.6	19.7
2 21	12 22.88	−14 34.1	2.234	3.051	12.2	19.5
3 2	12 16.59	−14 44.2	2.148	3.045	9.5	19.3
3 12	12 8.69	−14 37.1	2.088	3.039	6.6	19.1
3 22	11 59.88	−14 13.8	2.054	3.032	4.5	19.0
4 1	11 51.02	−13 37.6	2.050	3.024	5.1	19.0
4 11	11 43.02	−12 53.4	2.074	3.017	7.7	19.1
4 21	11 36.58	−12 7.2	2.123	3.009	10.8	19.3

386740 2010 AX_{66} 3 20.7 340°.69 4°.0/16.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.73	+ 5 27.3	1.763	2.587	14.6	20.6
2 21	12 17.61	+ 6 52.6	1.681	2.581	11.3	20.4
3 2	12 13.22	+ 8 30.6	1.622	2.575	7.6	20.2
3 12	12 7.12	+10 13.0	1.589	2.570	4.5	19.9
3 22	12 0.12	+11 50.3	1.584	2.566	4.8	20.0
4 1	11 53.20	+13 13.1	1.605	2.561	8.2	20.1
4 11	11 47.36	+14 14.5	1.652	2.558	12.0	20.4
4 21	11 43.31	+14 51.4	1.720	2.554	15.4	20.6

101923 1999 RC_{18} 3 20.7 126°.70 0°.1/20.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 28.15	− 3 43.6	1.962	2.736	15.2	20.4
2 21	12 23.75	− 3 9.9	1.884	2.752	11.9	20.2
3 2	12 17.12	− 2 20.8	1.829	2.767	8.1	20.0
3 12	12 8.88	− 1 20.4	1.800	2.782	3.9	19.8
3 22	11 59.89	− 0 14.4	1.799	2.796	0.5	19.5
4 1	11 51.12	+ 0 50.2	1.828	2.809	4.9	19.9
4 11	11 43.51	+ 1 47.0	1.885	2.821	8.9	20.1
4 21	11 37.73	+ 2 31.3	1.967	2.833	12.4	20.4

358078 2006 JQ_{7} 3 20.7 67°.83 1°.7/19.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.84	+ 0 30.8	1.400	2.212	18.3	20.9
2 21	12 24.28	+ 1 9.7	1.338	2.229	14.3	20.7
3 2	12 17.83	+ 2 4.4	1.296	2.246	9.5	20.4
3 12	12 9.30	+ 3 8.2	1.278	2.264	4.4	20.2
3 22	11 59.83	+ 4 12.6	1.287	2.281	2.2	20.1
4 1	11 50.76	+ 5 8.6	1.321	2.298	6.9	20.4
4 11	11 43.31	+ 5 49.0	1.381	2.316	11.6	20.7
4 21	11 38.25	+ 6 10.5	1.462	2.333	15.6	21.0

240551 2004 RD_{36} 3 20.7 236°.74 1°.5/19.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.84	+ 1 38.4	1.727	2.522	16.1	21.4
2 21	12 26.52	+ 1 58.5	1.629	2.511	12.7	21.1
3 2	12 19.45	+ 2 30.9	1.553	2.499	8.6	20.8
3 12	12 10.20	+ 3 11.3	1.502	2.486	4.1	20.5
3 22	11 59.68	+ 3 53.6	1.479	2.473	1.9	20.3
4 1	11 49.13	+ 4 31.0	1.484	2.460	6.4	20.6
4 11	11 39.78	+ 4 57.1	1.515	2.445	11.1	20.8
4 21	11 32.59	+ 5 8.3	1.569	2.431	15.2	21.0

165857 2001 SF_{34} 3 20.7 45°.20 1°.0/21.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.15	− 8 20.1	1.922	2.695	15.5	19.3
2 21	12 17.56	− 7 25.0	1.849	2.714	12.3	19.1
3 2	12 12.95	− 6 9.6	1.798	2.733	8.6	18.9
3 12	12 6.90	− 4 38.3	1.773	2.752	4.4	18.7
3 22	12 0.20	− 2 58.1	1.776	2.771	1.0	18.5
4 1	11 53.72	− 1 17.3	1.807	2.791	4.4	18.8
4 11	11 48.30	+ 0 15.5	1.867	2.811	8.4	19.1
4 21	11 44.52	+ 1 34.2	1.951	2.832	11.8	19.3

323815 2005 SC_{2} 3 20.7 156°.79 3°.2/18.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 33.76	+ 8 45.7	2.038	2.832	14.0	20.6
2 21	12 28.09	+ 9 0.2	1.956	2.836	10.9	20.4
3 2	12 20.06	+ 9 18.4	1.896	2.840	7.5	20.2
3 12	12 10.30	+ 9 35.2	1.864	2.844	4.2	20.0
3 22	11 59.70	+ 9 45.7	1.862	2.847	3.7	20.0
4 1	11 49.31	+ 9 45.5	1.888	2.850	6.7	20.2
4 11	11 40.15	+ 9 32.2	1.942	2.853	10.2	20.4
4 21	11 32.92	+ 9 5.1	2.021	2.855	13.4	20.6

229976 1999 VP_{55} 3 20.7 170°.43 0°.5/21.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.99	− 4 30.5	2.434	3.198	12.8	21.6
2 21	12 20.97	− 4 6.4	2.340	3.201	10.2	21.4
3 2	12 15.12	− 3 29.4	2.269	3.204	7.0	21.2
3 12	12 7.93	− 2 42.2	2.226	3.206	3.5	21.0
3 22	12 0.05	− 1 48.8	2.212	3.208	0.6	20.8
4 1	11 52.25	− 0 54.4	2.227	3.209	4.0	21.0
4 11	11 45.30	− 0 4.2	2.272	3.210	7.5	21.3
4 21	11 39.77	+ 0 37.6	2.343	3.210	10.6	21.5

407372 2010 RS_{139} 3 20.7 154°.85 0°.3/21.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.22	− 4 24.9	2.219	2.985	13.9	22.9
2 21	12 22.83	− 3 49.3	2.132	2.994	11.0	22.7
3 2	12 16.43	− 2 59.1	2.067	3.003	7.5	22.5
3 12	12 8.56	− 1 57.7	2.030	3.011	3.7	22.3
3 22	11 59.96	− 0 50.3	2.022	3.018	0.5	22.0
4 1	11 51.50	+ 0 17.0	2.044	3.024	4.4	22.3
4 11	11 44.02	+ 1 17.9	2.094	3.030	8.2	22.6
4 21	11 38.15	+ 2 7.8	2.171	3.035	11.5	22.8

498309 2007 VT_{131} 3 20.7 353°.52 0°.1/20.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.41	− 1 55.8	1.287	2.104	19.3	21.0
2 21	12 22.16	− 1 50.4	1.208	2.100	15.4	20.8
3 2	12 16.80	− 1 26.7	1.148	2.097	10.6	20.5
3 12	12 9.01	− 0 48.5	1.110	2.095	5.1	20.2
3 22	11 59.88	− 0 2.5	1.097	2.093	0.7	19.8
4 1	11 50.87	+ 0 42.9	1.108	2.092	6.6	20.2
4 11	11 43.40	+ 1 19.1	1.143	2.092	12.0	20.5
4 21	11 38.48	+ 1 40.2	1.199	2.093	16.7	20.8

206110 2002 RX_{214} 3 20.7 187°.08 1°.8/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.75	+ 3 47.7	2.795	3.580	10.8	21.7
2 21	12 20.52	+ 4 27.3	2.702	3.579	8.4	21.5
3 2	12 14.69	+ 5 14.0	2.633	3.578	5.6	21.3
3 12	12 7.69	+ 6 3.9	2.594	3.576	2.8	21.1
3 22	12 0.09	+ 6 52.7	2.584	3.574	2.1	21.1
4 1	11 52.56	+ 7 35.8	2.605	3.572	4.8	21.3
4 11	11 45.76	+ 8 9.5	2.655	3.568	7.7	21.4
4 21	11 40.20	+ 8 31.5	2.730	3.564	10.3	21.6

326410 2001 SM_{211} 3 20.7 206°.01 0°.6/20.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 30.86	+ 0 36.7	2.233	3.008	13.5	21.7
2 21	12 25.78	+ 0 43.4	2.134	3.003	10.7	21.5
3 2	12 18.52	+ 0 59.5	2.057	2.998	7.2	21.3
3 12	12 9.61	+ 1 21.8	2.009	2.991	3.4	21.0
3 22	11 59.81	+ 1 46.6	1.989	2.985	0.9	20.8
4 1	11 50.03	+ 2 9.2	2.000	2.977	4.9	21.1
4 11	11 41.22	+ 2 25.5	2.039	2.970	8.7	21.3
4 21	11 34.10	+ 2 32.4	2.104	2.961	12.1	21.5

24857 Sperello 3 20.7 22°.03 1°.1/21.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.07	− 7 16.9	1.204	2.015	20.8	18.4
2 21	12 19.62	− 6 41.4	1.132	2.019	16.7	18.2
3 2	12 15.08	− 5 37.4	1.079	2.024	11.7	17.9
3 12	12 8.16	− 4 9.2	1.047	2.029	6.0	17.6
3 22	12 0.01	− 2 26.1	1.039	2.035	1.1	17.3
4 1	11 52.09	− 0 40.9	1.057	2.042	6.4	17.7
4 11	11 45.79	+ 0 53.2	1.097	2.050	11.9	18.0
4 21	11 42.02	+ 2 6.8	1.159	2.058	16.7	18.3

520008 2013 UQ_{19} 3 20.7 87°.56 2°.0/18.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.78	+ 3 14.1	1.982	2.782	14.1	21.8
2 21	12 21.93	+ 3 48.7	1.904	2.790	11.0	21.6
3 2	12 15.92	+ 4 32.9	1.849	2.797	7.3	21.4
3 12	12 8.34	+ 5 21.7	1.821	2.805	3.5	21.2
3 22	12 0.00	+ 6 9.0	1.821	2.812	2.4	21.1
4 1	11 51.85	+ 6 49.0	1.849	2.820	5.9	21.4
4 11	11 44.79	+ 7 16.8	1.904	2.827	9.6	21.6
4 21	11 39.48	+ 7 29.9	1.982	2.835	12.9	21.8

337965 2002 BZ_{22} 3 20.7 125°.09 0°.3/21.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.50	− 2 29.8	3.017	3.774	10.8	21.5
2 21	12 21.63	− 2 21.8	2.934	3.791	8.5	21.3
3 2	12 15.29	− 2 5.3	2.874	3.808	5.8	21.2
3 12	12 7.92	− 1 42.5	2.843	3.824	2.8	21.0
3 22	12 0.08	− 1 16.2	2.843	3.839	0.4	20.8
4 1	11 52.37	− 0 49.7	2.874	3.855	3.3	21.0
4 11	11 45.40	− 0 26.3	2.935	3.869	6.2	21.3
4 21	11 39.62	− 0 8.4	3.023	3.883	8.7	21.4

433112 2012 TO_{132} 3 20.7 130°.47 1°.2/19.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.12	+ 2 41.5	2.401	3.186	12.4	21.5
2 21	12 22.58	+ 2 57.0	2.316	3.193	9.7	21.3
3 2	12 16.17	+ 3 20.0	2.255	3.199	6.5	21.1
3 12	12 8.41	+ 3 46.9	2.222	3.205	3.0	20.9
3 22	12 0.00	+ 4 13.7	2.218	3.212	1.6	20.8
4 1	11 51.73	+ 4 36.2	2.244	3.217	4.8	21.0
4 11	11 44.38	+ 4 50.8	2.298	3.223	8.1	21.2
4 21	11 38.52	+ 4 55.4	2.377	3.229	11.1	21.4

242042 2002 RK_{114} 3 20.7 151°.01 2°.1/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.98	+ 3 18.6	2.467	3.260	11.9	20.5
2 21	12 19.34	+ 4 17.5	2.383	3.266	9.1	20.4
3 2	12 13.98	+ 5 25.4	2.325	3.272	6.1	20.2
3 12	12 7.37	+ 6 37.4	2.294	3.277	3.0	20.0
3 22	12 0.16	+ 7 47.5	2.293	3.282	2.6	20.0
4 1	11 53.05	+ 8 50.2	2.322	3.286	5.4	20.2
4 11	11 46.77	+ 9 40.6	2.379	3.290	8.5	20.4
4 21	11 41.86	+10 16.1	2.460	3.294	11.3	20.5

388786 2008 AL_{42} 3 20.7 147°.71 4°.2/25.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.11	−15 41.6	2.775	3.473	12.9	22.0
2 21	12 21.70	−16 8.4	2.676	3.478	10.9	21.8
3 2	12 15.56	−16 20.3	2.599	3.484	8.5	21.7
3 12	12 8.14	−16 17.0	2.547	3.489	6.1	21.5
3 22	12 0.04	−15 59.2	2.523	3.494	4.4	21.4
4 1	11 51.98	−15 29.7	2.529	3.499	4.7	21.4
4 11	11 44.68	−14 52.6	2.563	3.503	6.7	21.6
4 21	11 38.69	−14 12.6	2.625	3.507	9.1	21.7

83401 2001 SU_{32} 3 20.7 169°.71 0°.4/21.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.04	− 5 18.4	2.729	3.490	11.7	20.7
2 21	12 18.48	− 4 39.9	2.633	3.493	9.3	20.5
3 2	12 13.34	− 3 48.5	2.562	3.495	6.4	20.3
3 12	12 7.06	− 2 47.2	2.517	3.497	3.2	20.1
3 22	12 0.20	− 1 40.0	2.503	3.499	0.5	19.9
4 1	11 53.42	− 0 32.0	2.519	3.501	3.6	20.2
4 11	11 47.35	+ 0 31.6	2.565	3.502	6.8	20.4
4 21	11 42.50	+ 1 26.7	2.637	3.502	9.6	20.6

333975 2000 LK_{7} 3 20.7 300°.09 2°.9/18.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.62	+ 2 44.2	1.633	2.450	15.9	21.0
2 21	12 20.23	+ 3 41.8	1.537	2.432	12.5	20.7
3 2	12 15.26	+ 4 55.1	1.462	2.414	8.4	20.4
3 12	12 8.24	+ 6 17.7	1.412	2.396	4.2	20.1
3 22	12 0.01	+ 7 40.8	1.389	2.379	3.5	20.0
4 1	11 51.73	+ 8 54.8	1.392	2.361	7.7	20.2
4 11	11 44.56	+ 9 51.3	1.420	2.344	12.2	20.4
4 21	11 39.44	+10 25.7	1.470	2.328	16.3	20.6

112131 2002 JA_{50} 3 20.7 285°.40 0°.1/20.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.07	− 2 24.7	1.593	2.390	17.1	20.3
2 21	12 23.10	− 2 9.5	1.490	2.371	13.7	20.0
3 2	12 17.33	− 1 37.0	1.408	2.352	9.5	19.7
3 12	12 9.29	− 0 50.4	1.350	2.334	4.6	19.4
3 22	11 59.85	+ 0 4.7	1.318	2.314	0.7	19.0
4 1	11 50.27	+ 1 0.5	1.313	2.295	6.1	19.4
4 11	11 41.85	+ 1 48.7	1.334	2.276	11.2	19.6
4 21	11 35.61	+ 2 23.2	1.377	2.257	15.8	19.8

208210 2000 SK_{65} 3 20.7 185°.51 0°.5/20.0 18

2 11	12 23.18	− 0 30.9	3.026	3.797	10.4	21.7
2 21	12 19.19	− 0 2.3	2.928	3.797	8.1	21.5
3 2	12 13.74	+ 0 34.8	2.856	3.796	5.5	21.3
3 12	12 7.23	+ 1 17.6	2.812	3.795	2.5	21.1
3 22	12 0.19	+ 2 2.6	2.798	3.793	0.8	21.0
4 1	11 53.20	+ 2 45.7	2.815	3.791	3.7	21.2
4 11	11 46.85	+ 3 23.3	2.861	3.789	6.6	21.4
4 21	11 41.62	+ 3 52.7	2.934	3.786	9.2	21.5

217950 2001 UM_{15} 3 20.7 141°.81 1°.7/22.5 16

2 11	12 26.09	− 7 58.5	2.125	2.881	14.7	21.3
2 21	12 22.09	− 7 41.9	2.037	2.889	11.8	21.1
3 2	12 16.01	− 7 8.6	1.971	2.898	8.4	20.9
3 12	12 8.40	− 6 20.7	1.931	2.905	4.7	20.6
3 22	12 0.02	− 5 22.5	1.919	2.913	1.7	20.5
4 1	11 51.77	− 4 19.8	1.936	2.919	4.3	20.6
4 11	11 44.53	− 3 19.1	1.981	2.926	8.0	20.9
4 21	11 38.94	− 2 26.0	2.053	2.932	11.4	21.1

136421 2005 CK_{49} 3 20.7 323°.52 1°.0/21.5 17

2 11	12 23.46	− 4 4.8	1.351	2.160	19.0	19.8
2 21	12 21.45	− 4 5.0	1.259	2.145	15.3	19.5
3 2	12 16.42	− 3 45.5	1.186	2.131	10.8	19.2
3 12	12 8.91	− 3 8.6	1.136	2.118	5.5	18.9
3 22	11 59.92	− 2 19.5	1.109	2.105	1.1	18.5
4 1	11 50.85	− 1 26.4	1.108	2.093	6.2	18.8
4 11	11 43.15	− 0 38.6	1.130	2.082	11.7	19.1
4 21	11 37.91	− 0 3.7	1.173	2.071	16.6	19.3

327923 2007 DN_{42} 3 20.7 159°.11 2°.2/18.1 17

2 11	12 27.03	+ 3 52.1	2.455	3.241	12.1	21.8
2 21	12 22.47	+ 4 46.2	2.372	3.250	9.4	21.7
3 2	12 16.08	+ 5 48.6	2.313	3.258	6.2	21.5
3 12	12 8.38	+ 6 54.4	2.283	3.266	3.1	21.3
3 22	12 0.04	+ 7 58.0	2.284	3.272	2.6	21.2
4 1	11 51.83	+ 8 53.7	2.314	3.278	5.5	21.4
4 11	11 44.52	+ 9 37.2	2.373	3.283	8.6	21.6
4 21	11 38.68	+10 6.0	2.457	3.287	11.5	21.8

213076 1999 TY_{115} 3 20.7 118°.94 1°.7/22.5 18

2 11	12 27.33	− 8 26.6	1.909	2.668	16.0	21.0
2 21	12 23.22	− 8 1.2	1.830	2.685	12.9	20.8
3 2	12 16.83	− 7 16.6	1.773	2.700	9.1	20.6
3 12	12 8.80	− 6 15.7	1.740	2.716	5.0	20.4
3 22	11 59.98	− 5 3.7	1.736	2.731	1.7	20.2
4 1	11 51.38	− 3 47.8	1.761	2.745	4.6	20.4
4 11	11 43.96	− 2 35.7	1.814	2.758	8.6	20.7
4 21	11 38.41	− 1 33.6	1.892	2.771	12.2	20.9

69373 1994 UL_{6} 3 20.7 42°.67 1°.9/22.6 18

2 11	12 23.99	− 7 40.8	1.921	2.690	15.6	19.9
2 21	12 20.73	− 7 34.5	1.834	2.694	12.6	19.7
3 2	12 15.24	− 7 10.7	1.768	2.698	9.0	19.5
3 12	12 8.09	− 6 31.5	1.726	2.702	5.0	19.3
3 22	12 0.08	− 5 40.9	1.712	2.706	1.9	19.1
4 1	11 52.18	− 4 44.9	1.726	2.710	4.6	19.2
4 11	11 45.34	− 3 50.2	1.767	2.715	8.5	19.5
4 21	11 40.27	− 3 2.9	1.832	2.719	12.1	19.7

93481 2000 TN_{21} 3 20.7 233°.13 6°.0/14.2 17

2 11	12 29.26	+16 9.2	2.225	3.032	12.6	20.1
2 21	12 24.62	+17 9.9	2.137	3.020	10.0	19.9
3 2	12 17.78	+18 11.3	2.074	3.009	7.6	19.7
3 12	12 9.28	+19 6.3	2.037	2.996	6.1	19.6
3 22	11 59.91	+19 47.9	2.029	2.983	6.7	19.6
4 1	11 50.61	+20 10.7	2.049	2.970	9.0	19.7
4 11	11 42.31	+20 12.0	2.094	2.956	11.8	19.9
4 21	11 35.74	+19 52.1	2.161	2.941	14.4	20.0

159063 2004 TJ_{168} 3 20.7 155°.68 2°.1/18.7 17

2 11	12 26.51	+ 3 46.5	1.998	2.797	14.1	20.3
2 21	12 22.55	+ 4 18.8	1.914	2.799	10.9	20.1
3 2	12 16.40	+ 5 0.3	1.853	2.800	7.3	19.9
3 12	12 8.62	+ 5 46.0	1.818	2.802	3.6	19.7
3 22	12 0.01	+ 6 30.2	1.812	2.803	2.6	19.6
4 1	11 51.54	+ 7 6.8	1.834	2.804	6.0	19.8
4 11	11 44.13	+ 7 31.3	1.883	2.805	9.8	20.1
4 21	11 38.49	+ 7 41.1	1.955	2.806	13.1	20.3

362743 2011 UB_{317} 3 20.7 75°.87 0°.1/20.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 28.61	− 2 54.6	1.496	2.291	18.1	21.7
2 21	12 24.75	− 2 35.0	1.429	2.309	14.3	21.5
3 2	12 18.12	− 1 57.9	1.383	2.326	9.7	21.3
3 12	12 9.47	− 1 7.9	1.360	2.343	4.7	21.0
3 22	11 59.90	− 0 11.7	1.364	2.361	0.6	20.8
4 1	11 50.67	+ 0 42.7	1.396	2.378	5.8	21.2
4 11	11 42.97	+ 1 27.7	1.452	2.395	10.5	21.5
4 21	11 37.58	+ 1 58.5	1.532	2.412	14.5	21.8

327390 2005 UU_{438} 3 20.7 225°.19 2°.4/18.5 17

2 11	12 29.05	+ 5 1.6	2.163	2.955	13.3	21.3
2 21	12 24.48	+ 5 30.7	2.065	2.946	10.4	21.1
3 2	12 17.71	+ 6 7.6	1.991	2.937	7.0	20.9
3 12	12 9.27	+ 6 47.7	1.944	2.927	3.6	20.6
3 22	11 59.91	+ 7 25.6	1.926	2.916	2.8	20.5
4 1	11 50.59	+ 7 55.8	1.938	2.905	6.1	20.7
4 11	11 42.23	+ 8 14.0	1.977	2.893	9.7	20.9
4 21	11 35.56	+ 8 18.0	2.040	2.881	13.0	21.1

19043 6214 *P–L* 3 20.7 77°.86 2°.1/22.5 18

2 11	12 26.18	− 8 25.2	1.513	2.292	18.7	18.9
2 21	12 22.94	− 8 9.0	1.439	2.305	15.1	18.6
3 2	12 16.97	− 7 29.9	1.385	2.318	10.7	18.4
3 12	12 8.96	− 6 30.7	1.355	2.331	5.9	18.2
3 22	11 59.97	− 5 17.6	1.350	2.345	2.1	17.9
4 1	11 51.23	− 3 59.3	1.372	2.358	5.3	18.2
4 11	11 43.94	− 2 45.4	1.421	2.370	10.0	18.5
4 21	11 38.89	− 1 43.6	1.492	2.383	14.1	18.8

209500 2004 JT_{21} 3 20.7 335°.25 0°.5/21.3 17

2 11	12 22.22	− 4 5.4	2.172	2.951	13.8	20.6
2 21	12 19.10	− 3 45.6	2.078	2.947	10.9	20.4
3 2	12 14.03	− 3 11.9	2.006	2.944	7.5	20.2
3 12	12 7.49	− 2 27.1	1.960	2.941	3.8	20.0
3 22	12 0.18	− 1 35.6	1.943	2.939	0.6	19.7
4 1	11 52.93	− 0 42.9	1.954	2.936	4.3	20.0
4 11	11 46.56	+ 0 5.2	1.992	2.934	8.1	20.2
4 21	11 41.71	+ 0 44.1	2.056	2.932	11.5	20.4

54769 2001 LJ_{8} 3 20.7 280°.26 9°.0/28.9 18

2 11	12 26.06	−23 45.9	1.846	2.528	19.0	18.9
2 21	12 22.94	−24 46.0	1.745	2.521	16.8	18.7
3 2	12 17.15	−25 21.6	1.661	2.513	14.2	18.5
3 12	12 9.19	−25 28.4	1.598	2.506	11.6	18.3
3 22	11 59.91	−25 4.3	1.557	2.498	9.5	18.2
4 1	11 50.51	−24 11.2	1.541	2.491	9.1	18.1
4 11	11 42.22	−22 56.1	1.550	2.483	10.7	18.2
4 21	11 36.02	−21 28.6	1.583	2.476	13.4	18.3

310324 2011 UD_{161} 3 20.7 251°.75 3°.3/18.2 17

2 11	12 30.18	+ 5 37.9	1.653	2.462	16.1	21.0
2 21	12 26.14	+ 6 13.2	1.559	2.449	12.7	20.8
3 2	12 19.28	+ 6 58.7	1.487	2.436	8.6	20.5
3 12	12 10.17	+ 7 48.3	1.440	2.422	4.5	20.2
3 22	11 59.78	+ 8 34.4	1.419	2.408	3.8	20.1
4 1	11 49.37	+ 9 9.2	1.426	2.394	7.8	20.3
4 11	11 40.22	+ 9 27.0	1.459	2.379	12.3	20.5
4 21	11 33.30	+ 9 25.3	1.514	2.364	16.3	20.7

497793 2006 SR_{402} 3 20.7 148°.71 0°.1/20.6 17

2 11	12 23.11	− 2 12.0	2.866	3.634	11.0	23.0
2 21	12 19.19	− 1 43.4	2.776	3.641	8.6	22.8
3 2	12 13.76	− 1 5.0	2.711	3.649	5.8	22.6
3 12	12 7.26	− 0 19.7	2.674	3.656	2.8	22.4
3 22	12 0.23	+ 0 28.8	2.666	3.662	0.5	22.2
4 1	11 53.29	+ 1 16.2	2.689	3.669	3.6	22.5
4 11	11 47.07	+ 1 58.7	2.742	3.674	6.6	22.7
4 21	11 42.02	+ 2 32.9	2.821	3.680	9.3	22.9

80008 Danielarhodes 3 20.7 265°.08 1°.3/19.4 17

2 11	12 26.31	+ 2 46.8	2.296	3.085	12.8	19.4
2 21	12 22.17	+ 3 1.4	2.200	3.078	10.0	19.2
3 2	12 16.05	+ 3 24.0	2.127	3.072	6.7	19.0
3 12	12 8.45	+ 3 51.0	2.081	3.065	3.2	18.7
3 22	12 0.05	+ 4 18.2	2.064	3.058	1.7	18.6
4 1	11 51.71	+ 4 41.0	2.077	3.051	5.1	18.8
4 11	11 44.24	+ 4 55.6	2.117	3.044	8.6	19.0
4 21	11 38.31	+ 4 59.3	2.182	3.037	11.8	19.2

464677 2001 TB_{127} 3 20.7 133°.13 0°.2/20.9 16

2 11	12 25.74	− 3 52.2	2.052	2.828	14.5	22.5
2 21	12 21.87	− 3 20.7	1.969	2.837	11.5	22.3
3 2	12 15.89	− 2 34.1	1.908	2.846	7.8	22.1
3 12	12 8.37	− 1 36.3	1.873	2.854	3.8	21.9
3 22	12 0.08	− 0 32.6	1.866	2.862	0.5	21.6
4 1	11 51.95	+ 0 30.6	1.889	2.870	4.7	22.0
4 11	11 44.86	+ 1 27.0	1.940	2.877	8.6	22.2
4 21	11 39.46	+ 2 11.7	2.015	2.884	12.0	22.4

419838 2010 XR_{82} 3 20.7 134°.82 4°.5/24.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 29.02	−13 17.6	2.012	2.741	16.3	21.7
2 21	12 24.65	−13 49.0	1.921	2.748	13.6	21.5
3 2	12 17.92	−14 2.2	1.851	2.754	10.4	21.3
3 12	12 9.40	−13 56.5	1.804	2.759	7.1	21.1
3 22	11 59.93	−13 33.3	1.785	2.765	4.7	21.0
4 1	11 50.52	−12 56.3	1.794	2.770	5.4	21.0
4 11	11 42.21	−12 11.8	1.830	2.775	8.5	21.2
4 21	11 35.76	−11 26.3	1.891	2.780	11.7	21.4

117253 2004 ST_{45} 3 20.7 192°.22 3°.8/25.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.44	−15 33.7	2.445	3.156	14.1	20.3
2 21	12 20.69	−15 26.9	2.340	3.154	11.9	20.2
3 2	12 15.04	−15 1.1	2.257	3.152	9.1	20.0
3 12	12 7.97	−14 16.4	2.198	3.150	6.2	19.8
3 22	12 0.13	−13 15.3	2.167	3.147	4.0	19.6
4 1	11 52.32	−12 2.4	2.166	3.143	4.5	19.7
4 11	11 45.33	−10 43.9	2.193	3.139	7.2	19.8
4 21	11 39.80	− 9 26.7	2.247	3.135	10.2	20.0

69483 1996 XA_{31} 3 20.7 73°.07 2°.3/18.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.48	+ 1 25.6	1.499	2.308	17.5	19.8
2 21	12 24.47	+ 2 24.0	1.445	2.335	13.5	19.6
3 2	12 17.79	+ 3 36.5	1.412	2.362	8.9	19.4
3 12	12 9.26	+ 4 55.4	1.404	2.388	4.2	19.2
3 22	11 59.97	+ 6 11.6	1.423	2.415	2.9	19.2
4 1	11 51.16	+ 7 16.2	1.469	2.441	7.0	19.5
4 11	11 43.91	+ 8 2.8	1.541	2.467	11.3	19.8
4 21	11 38.91	+ 8 29.0	1.635	2.493	14.9	20.1

262748 2006 XZ_{53} 3 20.7 212°.53 6°.9/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.57	−22 17.4	2.323	2.988	15.9	20.6
2 21	12 24.26	−22 55.1	2.212	2.981	13.9	20.4
3 2	12 17.70	−23 12.1	2.120	2.973	11.6	20.2
3 12	12 9.34	−23 5.8	2.051	2.964	9.1	20.0
3 22	11 59.93	−22 35.7	2.007	2.955	7.3	19.9
4 1	11 50.42	−21 44.0	1.991	2.945	7.1	19.9
4 11	11 41.79	−20 36.4	2.003	2.934	8.7	19.9
4 21	11 34.86	−19 20.5	2.040	2.923	11.3	20.1

520267 2014 EJ_{124} 3 20.8 242°.63 4°.3/25.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.54	−15 45.5	2.521	3.230	13.8	21.1
2 21	12 19.96	−16 3.1	2.416	3.227	11.6	21.0
3 2	12 14.55	−16 3.7	2.333	3.224	9.1	20.8
3 12	12 7.74	−15 47.2	2.274	3.220	6.5	20.6
3 22	12 0.17	−15 14.6	2.243	3.216	4.5	20.5
4 1	11 52.60	−14 29.4	2.240	3.213	4.8	20.5
4 11	11 45.81	−13 36.5	2.265	3.209	7.1	20.6
4 21	11 40.41	−12 41.7	2.316	3.205	9.8	20.8

61245 2000 ON_{22} 3 20.8 216°.37 0°.2/20.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.86	− 3 10.0	2.117	2.889	14.3	20.4
2 21	12 23.66	− 2 32.1	2.012	2.880	11.3	20.2
3 2	12 17.24	− 1 38.6	1.931	2.869	7.8	20.0
3 12	12 9.10	− 0 33.1	1.875	2.858	3.7	19.7
3 22	11 59.99	+ 0 38.9	1.849	2.845	0.7	19.4
4 1	11 50.84	+ 1 50.6	1.853	2.832	5.0	19.7
4 11	11 42.62	+ 2 55.0	1.885	2.818	9.1	19.9
4 21	11 36.10	+ 3 46.9	1.942	2.803	12.8	20.1

499055 2009 DT_{105} 3 20.8 339°.10 0°.1/20.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.37	− 3 0.3	1.302	2.119	19.2	21.6
2 21	12 20.60	− 2 43.1	1.219	2.111	15.3	21.3
3 2	12 15.82	− 2 5.1	1.154	2.103	10.6	21.0
3 12	12 8.63	− 1 10.1	1.111	2.096	5.1	20.7
3 22	12 0.08	− 0 5.4	1.093	2.089	0.7	20.3
4 1	11 51.56	+ 0 59.3	1.100	2.084	6.6	20.7
4 11	11 44.49	+ 1 54.1	1.130	2.079	12.0	21.0
4 21	11 39.90	+ 2 31.9	1.181	2.075	16.8	21.2

408124 2013 CR_{33} 3 20.8 357°.63 5°.7/23.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.38	− 8 59.8	1.197	1.989	22.0	20.6
2 21	12 26.55	−10 16.3	1.118	1.985	18.3	20.4
3 2	12 20.15	−11 14.0	1.056	1.983	13.9	20.1
3 12	12 10.81	−11 49.8	1.014	1.982	9.1	19.8
3 22	11 59.77	−12 3.2	0.995	1.982	5.8	19.6
4 1	11 48.71	−11 57.2	1.000	1.982	7.6	19.7
4 11	11 39.39	−11 39.6	1.029	1.984	12.2	20.0
4 21	11 33.05	−11 19.1	1.077	1.986	16.8	20.2

343683 2011 AW_{19} 3 20.8 69°.08 4°.7/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.71	+ 8 47.7	1.687	2.507	15.4	20.7
2 21	12 22.98	+ 9 50.4	1.625	2.521	11.9	20.5
3 2	12 16.79	+10 59.6	1.585	2.535	8.1	20.3
3 12	12 8.83	+12 7.3	1.571	2.549	5.1	20.1
3 22	12 0.09	+13 4.9	1.584	2.563	5.3	20.2
4 1	11 51.66	+13 45.6	1.624	2.577	8.4	20.4
4 11	11 44.59	+14 5.4	1.689	2.592	11.9	20.6
4 21	11 39.55	+14 3.7	1.775	2.606	15.1	20.9

465101 2006 UE_{252} 3 20.8 254°.45 0°.0/20.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.80	− 2 46.2	1.894	2.677	15.3	22.2
2 21	12 23.18	− 2 23.7	1.789	2.662	12.2	21.9
3 2	12 17.13	− 1 45.6	1.705	2.646	8.4	21.7
3 12	12 9.15	− 0 55.0	1.647	2.629	4.1	21.4
3 22	12 0.03	+ 0 2.9	1.616	2.612	0.6	21.0
4 1	11 50.82	+ 1 1.4	1.614	2.595	5.3	21.3
4 11	11 42.60	+ 1 53.2	1.639	2.577	9.8	21.6
4 21	11 36.24	+ 2 32.9	1.688	2.559	13.8	21.8

410220 2007 RX_{310} 3 20.8 172°.29 4°.9/25.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.87	−15 27.3	1.972	2.692	16.8	21.9
2 21	12 24.66	−15 45.4	1.877	2.695	14.2	21.7
3 2	12 18.02	−15 42.4	1.801	2.698	11.0	21.5
3 12	12 9.52	−15 17.3	1.749	2.700	7.6	21.3
3 22	12 0.00	−14 31.9	1.724	2.701	5.1	21.2
4 1	11 50.51	−13 30.8	1.726	2.702	5.7	21.2
4 11	11 42.13	−12 21.5	1.756	2.702	8.7	21.4
4 21	11 35.66	−11 11.9	1.812	2.702	12.1	21.6

72093 2000 YL_{46} 3 20.8 122°.11 1°.1/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.85	− 0 26.9	1.841	2.629	15.5	20.4
2 21	12 24.46	+ 0 13.5	1.767	2.645	12.1	20.2
3 2	12 17.72	+ 1 7.7	1.716	2.660	8.1	20.0
3 12	12 9.28	+ 2 10.5	1.690	2.674	3.7	19.7
3 22	12 0.05	+ 3 15.1	1.693	2.688	1.5	19.6
4 1	11 51.06	+ 4 14.3	1.725	2.702	5.7	19.9
4 11	11 43.32	+ 5 2.0	1.784	2.714	9.7	20.2
4 21	11 37.53	+ 5 34.4	1.867	2.726	13.3	20.4

82618 2001 OS_{101} 3 20.8 186°.05 0°.8/21.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.76	− 4 31.7	2.777	3.532	11.7	20.0
2 21	12 21.38	− 4 23.9	2.677	3.532	9.3	19.8
3 2	12 15.35	− 4 5.6	2.601	3.531	6.5	19.6
3 12	12 8.10	− 3 38.6	2.552	3.530	3.3	19.4
3 22	12 0.21	− 3 5.9	2.533	3.528	0.8	19.2
4 1	11 52.37	− 2 31.1	2.544	3.526	3.5	19.4
4 11	11 45.25	− 1 58.3	2.585	3.524	6.7	19.6
4 21	11 39.39	− 1 30.9	2.653	3.521	9.5	19.8

68357 2001 NY_{18} 3 20.8 313°.83 7°.7/27.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.75	−20 21.7	1.687	2.403	19.4	19.0
2 21	12 21.27	−21 4.5	1.589	2.395	16.9	18.8
3 2	12 16.10	−21 21.3	1.508	2.387	13.9	18.6
3 12	12 8.74	−21 8.8	1.447	2.379	10.7	18.4
3 22	12 0.10	−20 26.4	1.410	2.371	8.2	18.2
4 1	11 51.36	−19 17.7	1.398	2.364	8.0	18.2
4 11	11 43.80	−17 51.4	1.411	2.357	10.3	18.3
4 21	11 38.38	−16 18.2	1.447	2.351	13.7	18.4

522759 2016 NP_{75} 3 20.8 166°.63 3°.0/16.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.42	+ 7 43.0	2.637	3.439	11.0	21.7
2 21	12 18.85	+ 8 37.8	2.554	3.441	8.5	21.5
3 2	12 13.65	+ 9 38.1	2.496	3.442	5.7	21.3
3 12	12 7.29	+10 38.8	2.466	3.444	3.4	21.2
3 22	12 0.34	+11 34.7	2.465	3.445	3.5	21.2
4 1	11 53.48	+12 20.9	2.493	3.446	5.9	21.3
4 11	11 47.39	+12 53.9	2.549	3.447	8.6	21.5
4 21	11 42.57	+13 11.9	2.630	3.448	11.1	21.7

503169 2015 GS_{38} 3 20.8 235°.36 5°.1/14.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.70	+14 15.7	2.369	3.178	11.8	21.2
2 21	12 21.66	+15 11.7	2.286	3.173	9.3	21.0
3 2	12 15.69	+16 9.3	2.228	3.167	6.8	20.9
3 12	12 8.31	+17 2.1	2.197	3.161	5.2	20.7
3 22	12 0.20	+17 44.1	2.194	3.155	5.7	20.8
4 1	11 52.19	+18 10.3	2.220	3.149	7.9	20.9
4 11	11 45.10	+18 18.2	2.271	3.143	10.6	21.0
4 21	11 39.53	+18 7.3	2.345	3.137	13.1	21.2

501096 2013 SN_{81} 3 20.8 200°.39 0°.6/21.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.31	− 5 35.9	2.722	3.474	11.9	23.1
2 21	12 21.11	− 5 4.7	2.616	3.469	9.5	22.9
3 2	12 15.22	− 4 20.5	2.533	3.464	6.6	22.7
3 12	12 8.07	− 3 25.7	2.479	3.457	3.4	22.5
3 22	12 0.24	− 2 24.1	2.454	3.450	0.6	22.3
4 1	11 52.42	− 1 20.6	2.460	3.442	3.7	22.5
4 11	11 45.31	− 0 20.4	2.497	3.433	7.0	22.7
4 21	11 39.49	+ 0 32.2	2.560	3.424	9.9	22.9

410234 2007 TM_{18} 3 20.8 224°.17 2°.6/18.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.28	+ 3 55.9	1.870	2.669	14.9	21.8
2 21	12 25.07	+ 4 37.5	1.775	2.660	11.7	21.6
3 2	12 18.37	+ 5 30.1	1.703	2.650	7.9	21.3
3 12	12 9.73	+ 6 28.2	1.657	2.640	4.0	21.1
3 22	12 0.00	+ 7 24.8	1.639	2.629	3.1	21.0
4 1	11 50.29	+ 8 12.8	1.649	2.617	6.8	21.2
4 11	11 41.69	+ 8 46.2	1.686	2.605	10.9	21.4
4 21	11 35.04	+ 9 2.0	1.747	2.593	14.7	21.6

421442 2014 MV_{16} 3 20.8 215°.81 0°.5/21.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 28.66	− 4 32.1	1.973	2.744	15.2	22.2
2 21	12 24.49	− 4 8.6	1.871	2.735	12.2	22.0
3 2	12 17.93	− 3 28.9	1.791	2.726	8.5	21.7
3 12	12 9.52	− 2 35.5	1.736	2.716	4.3	21.4
3 22	12 0.04	− 1 33.6	1.710	2.706	0.6	21.1
4 1	11 50.53	− 0 29.6	1.713	2.694	5.0	21.4
4 11	11 42.04	+ 0 29.2	1.743	2.682	9.3	21.7
4 21	11 35.39	+ 1 17.1	1.799	2.669	13.2	21.9

203278 2001 RH_{70} 3 20.8 161°.23 2°.4/23.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.64	− 9 17.2	1.870	2.623	16.6	21.5
2 21	12 25.26	− 9 10.4	1.781	2.630	13.5	21.3
3 2	12 18.42	− 8 44.2	1.713	2.636	9.8	21.1
3 12	12 9.71	− 8 0.3	1.669	2.641	5.7	20.9
3 22	12 0.02	− 7 2.5	1.653	2.645	2.5	20.7
4 1	11 50.45	− 5 57.3	1.666	2.649	4.8	20.8
4 11	11 42.06	− 4 52.4	1.706	2.652	8.9	21.1
4 21	11 35.64	− 3 54.6	1.771	2.654	12.7	21.3

361635 2007 TF_{200} 3 20.8 219°.41 0°.6/21.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.90	− 4 46.7	1.774	2.554	16.3	21.7
2 21	12 23.34	− 4 23.3	1.679	2.549	13.0	21.4
3 2	12 17.26	− 3 41.8	1.605	2.543	9.1	21.2
3 12	12 9.22	− 2 45.3	1.556	2.537	4.6	20.9
3 22	12 0.08	− 1 39.3	1.534	2.531	0.7	20.6
4 1	11 50.97	− 0 31.3	1.541	2.524	5.3	20.9
4 11	11 42.98	+ 0 30.6	1.574	2.516	9.8	21.1
4 21	11 36.98	+ 1 20.4	1.631	2.509	13.9	21.4

392885 2012 VW_{7} 3 20.8 57°.25 1°.4/22.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.59	− 7 20.9	2.136	2.901	14.4	21.3
2 21	12 19.32	− 7 0.0	2.058	2.917	11.5	21.1
3 2	12 14.12	− 6 23.1	2.003	2.933	8.1	20.9
3 12	12 7.56	− 5 32.8	1.973	2.949	4.4	20.7
3 22	12 0.34	− 4 33.7	1.971	2.966	1.4	20.5
4 1	11 53.30	− 3 31.7	1.998	2.982	4.1	20.7
4 11	11 47.24	− 2 33.0	2.053	2.999	7.6	21.0
4 21	11 42.73	− 1 42.5	2.133	3.015	10.9	21.2

55956 1998 HO_{100} 3 20.8 240°.49 5°.5/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.63	+17 17.4	2.554	3.360	11.2	18.1
2 21	12 22.25	+18 8.2	2.472	3.353	8.9	17.9
3 2	12 16.02	+18 58.0	2.414	3.346	6.8	17.7
3 12	12 8.45	+19 41.0	2.384	3.339	5.5	17.7
3 22	12 0.21	+20 11.7	2.382	3.332	6.1	17.7
4 1	11 52.07	+20 26.0	2.408	3.324	8.1	17.8
4 11	11 44.81	+20 21.9	2.460	3.317	10.4	17.9
4 21	11 39.01	+19 59.7	2.534	3.309	12.7	18.1

30290 2000 HG_{69} 3 20.8 74°.07 1°.6/22.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.47	− 8 12.6	1.429	2.218	19.2	19.2
2 21	12 21.90	− 7 42.1	1.350	2.222	15.5	18.9
3 2	12 16.49	− 6 46.0	1.289	2.226	11.0	18.7
3 12	12 8.89	− 5 27.7	1.252	2.231	5.9	18.4
3 22	12 0.15	− 3 54.4	1.240	2.235	1.6	18.1
4 1	11 51.57	− 2 16.6	1.254	2.240	5.7	18.4
4 11	11 44.42	− 0 45.7	1.294	2.244	10.7	18.7
4 21	11 39.60	+ 0 29.4	1.357	2.249	15.2	19.0

302004 2000 QV_{226} 3 20.8 173°.71 4°.8/25.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.05	−15 53.9	1.938	2.659	17.1	21.1
2 21	12 24.07	−16 2.1	1.843	2.662	14.4	20.9
3 2	12 17.66	−15 47.6	1.767	2.664	11.1	20.7
3 12	12 9.38	−15 9.8	1.714	2.666	7.7	20.4
3 22	12 0.08	−14 10.9	1.688	2.667	5.1	20.3
4 1	11 50.83	−12 56.3	1.690	2.667	5.6	20.3
4 11	11 42.70	−11 34.2	1.720	2.667	8.7	20.5
4 21	11 36.49	−10 13.1	1.775	2.666	12.2	20.7

198865 2005 QT_{157} 3 20.8 201°.72 0°.1/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 33.07	− 1 48.6	1.765	2.543	16.5	21.4
2 21	12 28.20	− 1 43.2	1.670	2.540	13.1	21.2
3 2	12 20.60	− 1 23.9	1.596	2.535	9.0	20.9
3 12	12 10.84	− 0 53.8	1.548	2.530	4.4	20.7
3 22	11 59.89	− 0 17.6	1.528	2.524	0.6	20.3
4 1	11 48.96	+ 0 18.7	1.537	2.517	5.6	20.7
4 11	11 39.27	+ 0 48.7	1.573	2.510	10.2	20.9
4 21	11 31.75	+ 1 7.8	1.633	2.502	14.3	21.2

247058 2000 QV_{62} 3 20.8 179°.73 3°.2/15.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.05	+ 8 37.6	3.012	3.811	9.8	20.9
2 21	12 18.38	+ 9 49.6	2.927	3.812	7.6	20.8
3 2	12 13.27	+11 6.6	2.868	3.813	5.2	20.6
3 12	12 7.12	+12 23.5	2.838	3.813	3.4	20.5
3 22	12 0.44	+13 35.2	2.839	3.813	3.7	20.5
4 1	11 53.82	+14 36.8	2.870	3.812	5.8	20.7
4 11	11 47.86	+15 25.0	2.929	3.811	8.2	20.8
4 21	11 43.00	+15 57.8	3.013	3.810	10.4	21.0

208409 2001 SG_{241} 3 20.8 279°.35 1°.6/19.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.61	+ 3 39.8	2.257	3.049	12.9	20.3
2 21	12 22.44	+ 3 55.5	2.166	3.046	10.1	20.1
3 2	12 16.27	+ 4 18.6	2.098	3.043	6.7	19.9
3 12	12 8.63	+ 4 45.3	2.057	3.041	3.2	19.7
3 22	12 0.22	+ 5 11.2	2.045	3.038	2.0	19.6
4 1	11 51.90	+ 5 31.9	2.063	3.035	5.2	19.8
4 11	11 44.50	+ 5 43.4	2.108	3.033	8.7	20.0
4 21	11 38.66	+ 5 43.7	2.177	3.030	11.9	20.2

293414 2007 EW_{98} 3 20.8 267°.15 1°.6/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.54	+ 0 27.0	1.875	2.676	14.8	21.2
2 21	12 20.50	+ 1 17.2	1.786	2.672	11.6	21.0
3 2	12 15.20	+ 2 21.8	1.720	2.668	7.7	20.8
3 12	12 8.20	+ 3 35.5	1.679	2.664	3.6	20.5
3 22	12 0.28	+ 4 51.1	1.666	2.660	2.1	20.4
4 1	11 52.43	+ 6 0.7	1.682	2.656	6.1	20.6
4 11	11 45.63	+ 6 57.6	1.724	2.652	10.1	20.9
4 21	11 40.61	+ 7 37.3	1.789	2.648	13.8	21.1

264618 2001 US_{220} 3 20.8 178°.61 1°.3/22.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.67	− 7 4.7	2.409	3.160	13.3	22.5
2 21	12 22.38	− 6 46.6	2.312	3.162	10.7	22.3
3 2	12 16.20	− 6 13.9	2.237	3.163	7.6	22.1
3 12	12 8.59	− 5 28.7	2.188	3.164	4.1	21.9
3 22	12 0.25	− 4 34.8	2.169	3.164	1.3	21.7
4 1	11 51.96	− 3 37.1	2.180	3.163	3.9	21.9
4 11	11 44.53	− 2 41.4	2.221	3.162	7.4	22.1
4 21	11 38.57	− 1 52.4	2.287	3.160	10.6	22.3

380023 2013 QL_{16} 3 20.8 243°.97 1°.5/22.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.15	− 7 40.7	2.054	2.816	15.0	22.0
2 21	12 21.70	− 7 19.7	1.946	2.803	12.1	21.8
3 2	12 16.04	− 6 40.5	1.860	2.789	8.7	21.6
3 12	12 8.64	− 5 45.1	1.799	2.776	4.8	21.3
3 22	12 0.23	− 4 37.7	1.767	2.761	1.5	21.0
4 1	11 51.76	− 3 24.5	1.763	2.747	4.6	21.2
4 11	11 44.20	− 2 13.2	1.787	2.732	8.7	21.4
4 21	11 38.32	− 1 10.2	1.836	2.716	12.5	21.6

75082 1999 VF_{26} 3 20.8 170°.05 0°.6/21.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.99	− 4 54.7	2.177	2.940	14.2	20.6
2 21	12 23.60	− 4 28.9	2.085	2.945	11.3	20.4
3 2	12 17.10	− 3 48.3	2.016	2.949	7.8	20.2
3 12	12 9.05	− 2 55.7	1.973	2.952	3.9	20.0
3 22	12 0.19	− 1 55.9	1.959	2.955	0.6	19.7
4 1	11 51.43	− 0 54.8	1.975	2.956	4.4	20.0
4 11	11 43.64	+ 0 1.5	2.019	2.957	8.3	20.3
4 21	11 37.51	+ 0 47.9	2.089	2.958	11.7	20.5

439721 2015 DY_{206} 3 20.8 283°.84 2°.1/18.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.26	+ 2 22.3	2.243	3.043	12.7	20.9
2 21	12 18.35	+ 3 22.3	2.149	3.035	9.9	20.7
3 2	12 13.57	+ 4 33.7	2.079	3.027	6.6	20.5
3 12	12 7.37	+ 5 51.4	2.036	3.020	3.2	20.3
3 22	12 0.42	+ 7 8.9	2.022	3.012	2.6	20.2
4 1	11 53.51	+ 8 19.5	2.037	3.004	5.8	20.4
4 11	11 47.43	+ 9 17.3	2.079	2.997	9.3	20.6
4 21	11 42.79	+ 9 58.9	2.145	2.989	12.4	20.8

171975 2001 TY_{127} 3 20.8 281°.85 4°.0/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.05	+10 36.4	2.213	3.019	12.6	19.8
2 21	12 22.90	+11 11.3	2.122	3.009	9.9	19.6
3 2	12 16.66	+11 49.8	2.054	2.999	6.9	19.4
3 12	12 8.86	+12 26.4	2.013	2.988	4.4	19.2
3 22	12 0.22	+12 55.3	2.001	2.978	4.5	19.2
4 1	11 51.66	+13 11.7	2.017	2.968	7.2	19.3
4 11	11 44.04	+13 12.5	2.059	2.958	10.3	19.5
4 21	11 38.05	+12 56.8	2.125	2.948	13.2	19.7

508232 2015 HT_{12} 3 20.8 163°.97 2°.8/17.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.60	+ 7 42.3	2.459	3.256	11.8	21.2
2 21	12 22.22	+ 8 10.5	2.374	3.257	9.2	21.1
3 2	12 16.01	+ 8 43.3	2.313	3.259	6.2	20.9
3 12	12 8.48	+ 9 16.2	2.280	3.260	3.5	20.7
3 22	12 0.29	+ 9 44.6	2.276	3.261	3.2	20.7
4 1	11 52.22	+10 4.2	2.302	3.262	5.8	20.8
4 11	11 45.03	+10 12.2	2.355	3.263	8.8	21.0
4 21	11 39.30	+10 7.0	2.433	3.264	11.5	21.2

402529 2006 ES_{31} 3 20.8 351°.76 1°.8/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.25	+ 2 38.9	1.263	2.087	19.3	20.9
2 21	12 25.30	+ 2 44.5	1.186	2.084	15.2	20.6
3 2	12 19.07	+ 3 3.2	1.128	2.081	10.3	20.3
3 12	12 10.25	+ 3 29.5	1.093	2.078	4.9	20.0
3 22	12 0.03	+ 3 56.5	1.082	2.077	2.3	19.8
4 1	11 49.95	+ 4 16.5	1.096	2.076	7.5	20.1
4 11	11 41.54	+ 4 23.0	1.134	2.075	12.8	20.4
4 21	11 35.84	+ 4 12.8	1.192	2.076	17.5	20.7

419604 2010 RF_{125} 3 20.8 265°.76 1°.5/19.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.06	+ 0 2.4	1.726	2.525	15.9	21.8
2 21	12 22.87	+ 0 42.6	1.624	2.509	12.6	21.5
3 2	12 17.10	+ 1 39.0	1.544	2.492	8.5	21.2
3 12	12 9.25	+ 2 46.7	1.490	2.474	4.0	20.9
3 22	12 0.17	+ 3 58.8	1.462	2.456	1.9	20.7
4 1	11 50.98	+ 5 6.6	1.462	2.438	6.5	21.0
4 11	11 42.89	+ 6 2.2	1.488	2.420	11.2	21.2
4 21	11 36.80	+ 6 40.3	1.537	2.401	15.3	21.4

365198 2009 FQ_{53} 3 20.8 286°.85 4°.7/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.17	+ 7 58.7	1.580	2.402	16.1	20.8
2 21	12 24.02	+ 8 51.7	1.486	2.383	12.7	20.5
3 2	12 18.03	+ 9 54.8	1.413	2.363	8.8	20.2
3 12	12 9.74	+11 0.4	1.364	2.344	5.3	20.0
3 22	12 0.10	+11 59.3	1.342	2.325	5.4	19.9
4 1	11 50.38	+12 42.4	1.346	2.305	9.1	20.1
4 11	11 41.89	+13 3.6	1.374	2.286	13.5	20.3
4 21	11 35.65	+13 0.6	1.423	2.267	17.5	20.5

206745 2004 BR_{139} 3 20.8 168°.46 0°.1/20.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.35	− 2 25.0	2.499	3.271	12.3	21.6
2 21	12 20.48	− 1 59.7	2.407	3.274	9.7	21.4
3 2	12 14.85	− 1 23.1	2.338	3.276	6.6	21.2
3 12	12 7.94	− 0 38.2	2.296	3.278	3.2	21.0
3 22	12 0.38	+ 0 10.7	2.283	3.280	0.5	20.8
4 1	11 52.89	+ 0 59.1	2.301	3.281	4.1	21.1
4 11	11 46.21	+ 1 41.9	2.347	3.282	7.5	21.3
4 21	11 40.89	+ 2 15.7	2.419	3.283	10.5	21.5

147859 2005 UF_{450} 3 20.8 250°.89 2°.5/17.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.33	+ 6 21.2	2.665	3.461	11.0	20.3
2 21	12 19.64	+ 7 2.7	2.566	3.450	8.5	20.1
3 2	12 14.28	+ 7 50.3	2.493	3.439	5.8	19.9
3 12	12 7.68	+ 8 39.8	2.447	3.428	3.2	19.7
3 22	12 0.41	+ 9 26.3	2.431	3.416	2.9	19.7
4 1	11 53.16	+10 5.2	2.444	3.404	5.5	19.8
4 11	11 46.63	+10 32.9	2.485	3.393	8.4	20.0
4 21	11 41.36	+10 47.1	2.551	3.380	11.1	20.2

28269 1999 CQ_{14} 3 20.8 40°.48 2°.4/18.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.01	− 0 33.1	1.542	2.356	16.8	17.4
2 21	12 18.88	+ 0 55.0	1.470	2.365	13.0	17.2
3 2	12 14.25	+ 2 42.5	1.421	2.373	8.6	16.9
3 12	12 7.78	+ 4 41.1	1.397	2.383	4.0	16.7
3 22	12 0.40	+ 6 39.7	1.401	2.392	3.1	16.6
4 1	11 53.25	+ 8 26.7	1.431	2.402	7.3	16.9
4 11	11 47.37	+ 9 53.0	1.487	2.412	11.7	17.2
4 21	11 43.50	+10 53.9	1.565	2.423	15.4	17.4

56450 2000 GU_{80} 3 20.8 263°.50 6°.6/13.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.86	+14 15.5	1.962	2.781	13.5	19.3
2 21	12 22.43	+15 48.0	1.870	2.762	10.8	19.0
3 2	12 16.63	+17 25.8	1.802	2.742	8.1	18.8
3 12	12 8.97	+19 0.0	1.761	2.722	6.6	18.7
3 22	12 0.23	+20 20.9	1.748	2.702	7.6	18.7
4 1	11 51.45	+21 20.5	1.761	2.681	10.3	18.8
4 11	11 43.68	+21 54.0	1.798	2.659	13.5	19.0
4 21	11 37.73	+22 0.5	1.856	2.638	16.4	19.1

468153 2014 WL_{79} 3 20.8 46°.81 1°.6/22.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.71	− 7 31.4	1.545	2.331	18.1	21.3
2 21	12 20.98	− 7 9.8	1.474	2.344	14.5	21.1
3 2	12 15.66	− 6 26.3	1.422	2.358	10.2	20.9
3 12	12 8.45	− 5 24.4	1.393	2.372	5.5	20.6
3 22	12 0.32	− 4 10.4	1.391	2.386	1.6	20.4
4 1	11 52.44	− 2 53.0	1.415	2.401	5.2	20.7
4 11	11 45.91	− 1 41.5	1.465	2.416	9.7	21.0
4 21	11 41.48	− 0 42.7	1.539	2.431	13.8	21.3

520152 2014 BS_{69} 3 20.8 84°.92 3°.7/25.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.34	−14 56.0	2.385	3.106	14.2	21.6
2 21	12 19.10	−14 54.5	2.291	3.111	11.9	21.4
3 2	12 14.01	−14 34.4	2.217	3.117	9.1	21.2
3 12	12 7.58	−13 56.3	2.168	3.122	6.2	21.0
3 22	12 0.44	−13 2.7	2.147	3.127	4.0	20.9
4 1	11 53.38	−11 58.0	2.154	3.132	4.5	20.9
4 11	11 47.16	−10 48.4	2.189	3.137	7.1	21.1
4 21	11 42.37	− 9 40.2	2.250	3.142	10.0	21.3

296946 2010 DN_{78} 3 20.8 318°.48 5°.0/23.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.95	− 9 51.2	1.265	2.054	21.2	20.0
2 21	12 23.86	−10 38.8	1.172	2.039	17.7	19.7
3 2	12 18.42	−11 4.9	1.097	2.025	13.4	19.4
3 12	12 10.13	−11 7.4	1.042	2.011	8.6	19.1
3 22	12 0.05	−10 47.0	1.010	1.998	5.1	18.9
4 1	11 49.74	−10 8.6	1.002	1.986	7.1	18.9
4 11	11 40.90	− 9 21.4	1.017	1.974	12.0	19.1
4 21	11 34.81	− 8 35.5	1.053	1.963	17.0	19.4

200806 2001 XU_{151} 3 20.8 78°.22 1°.5/21.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 33.29	− 5 19.2	1.460	2.241	19.2	20.5
2 21	12 28.42	− 5 21.8	1.400	2.268	15.3	20.4
3 2	12 20.63	− 5 5.7	1.359	2.295	10.6	20.1
3 12	12 10.77	− 4 33.9	1.343	2.322	5.5	19.9
3 22	12 0.02	− 3 51.9	1.353	2.348	1.5	19.7
4 1	11 49.76	− 3 6.9	1.390	2.374	5.5	20.0
4 11	11 41.22	− 2 26.5	1.453	2.400	10.1	20.4
4 21	11 35.16	− 1 56.2	1.540	2.425	14.2	20.7

118181 1993 FD_{7} 3 20.8 13°.30 1°.8/19.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.31	+ 1 44.2	1.781	2.586	15.3	19.8
2 21	12 21.18	+ 2 22.7	1.699	2.587	11.9	19.5
3 2	12 15.70	+ 3 13.7	1.639	2.588	8.0	19.3
3 12	12 8.46	+ 4 11.9	1.605	2.590	3.8	19.0
3 22	12 0.32	+ 5 10.5	1.598	2.591	2.3	18.9
4 1	11 52.31	+ 6 2.3	1.619	2.593	6.2	19.2
4 11	11 45.45	+ 6 41.2	1.665	2.595	10.3	19.4
4 21	11 40.46	+ 7 3.6	1.735	2.597	14.0	19.7

409732 2006 CM_{27} 3 20.8 328°.87 0°.9/21.4 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.25	− 3 33.7	1.209	2.028	20.2	21.3
2 21	12 21.69	− 3 37.1	1.121	2.014	16.3	20.9
3 2	12 16.87	− 3 19.7	1.052	2.000	11.5	20.6
3 12	12 9.34	− 2 44.0	1.004	1.987	5.8	20.3
3 22	12 0.19	− 1 55.8	0.979	1.975	1.0	19.9
4 1	11 50.94	− 1 3.9	0.978	1.964	6.7	20.2
4 11	11 43.20	− 0 18.6	1.000	1.954	12.6	20.5
4 21	11 38.16	+ 0 12.4	1.042	1.945	17.8	20.8

196600 2003 QH_{68} 3 20.8 254°.58 1°.1/19.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.38	− 0 13.2	2.203	2.990	13.3	21.5
2 21	12 20.91	+ 0 26.2	2.098	2.975	10.5	21.2
3 2	12 15.41	+ 1 18.4	2.016	2.960	7.1	21.0
3 12	12 8.33	+ 2 19.5	1.961	2.945	3.3	20.7
3 22	12 0.35	+ 3 23.9	1.935	2.929	1.4	20.6
4 1	11 52.34	+ 4 25.3	1.938	2.913	5.2	20.8
4 11	11 45.16	+ 5 17.8	1.968	2.897	9.0	21.0
4 21	11 39.53	+ 5 56.9	2.023	2.880	12.5	21.2

183454 2003 BK_{24} 3 20.8 128°.60 0°.8/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.09	− 2 28.4	2.300	3.073	13.2	20.4
2 21	12 21.88	− 1 25.6	2.222	3.091	10.3	20.2
3 2	12 15.79	− 0 9.1	2.168	3.108	6.9	20.1
3 12	12 8.39	+ 1 16.1	2.142	3.125	3.2	19.8
3 22	12 0.37	+ 2 43.8	2.146	3.141	1.1	19.7
4 1	11 52.55	+ 4 7.2	2.181	3.157	4.7	20.0
4 11	11 45.68	+ 5 20.1	2.245	3.171	8.2	20.2
4 21	11 40.33	+ 6 18.4	2.334	3.185	11.3	20.5

439782 2015 GL_{34} 3 20.8 272°.53 3°.5/16.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.91	+ 7 39.9	2.470	3.276	11.5	21.6
2 21	12 18.77	+ 8 48.8	2.369	3.258	8.9	21.4
3 2	12 13.83	+10 5.6	2.293	3.240	6.1	21.2
3 12	12 7.54	+11 24.3	2.244	3.222	3.8	21.1
3 22	12 0.48	+12 38.8	2.225	3.203	4.1	21.0
4 1	11 53.39	+13 42.7	2.235	3.184	6.7	21.2
4 11	11 47.04	+14 31.2	2.272	3.166	9.7	21.3
4 21	11 42.01	+15 1.8	2.333	3.147	12.5	21.5

357120 2001 WU_{99} 3 20.8 67°.11 4°.9/17.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.56	+ 7 21.8	1.327	2.155	18.3	21.3
2 21	12 25.81	+ 8 24.9	1.274	2.173	14.2	21.1
3 2	12 19.01	+ 9 37.4	1.241	2.193	9.6	20.9
3 12	12 10.05	+10 49.2	1.231	2.212	5.6	20.7
3 22	12 0.16	+11 50.1	1.248	2.231	5.6	20.8
4 1	11 50.78	+12 31.5	1.290	2.250	9.3	21.0
4 11	11 43.15	+12 48.9	1.355	2.270	13.4	21.3
4 21	11 38.07	+12 42.1	1.441	2.289	17.1	21.6

206867 2004 FZ_{85} 3 20.8 191°.49 3°.9/15.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.57	+ 7 56.5	2.379	3.188	11.8	20.4
2 21	12 18.47	+ 9 27.1	2.297	3.188	9.1	20.2
3 2	12 13.58	+11 5.4	2.240	3.187	6.2	20.1
3 12	12 7.39	+12 44.5	2.211	3.186	4.1	19.9
3 22	12 0.52	+14 17.0	2.212	3.185	4.6	19.9
4 1	11 53.73	+15 36.2	2.242	3.184	7.2	20.1
4 11	11 47.75	+16 37.2	2.299	3.183	10.0	20.3
4 21	11 43.16	+17 17.8	2.380	3.182	12.6	20.4

33262 1998 HK_{51} 3 20.8 323°.42 1°.6/18.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.49	+ 0 54.2	2.068	2.870	13.6	18.2
2 21	12 17.96	+ 1 44.3	1.973	2.859	10.6	18.0
3 2	12 13.44	+ 2 47.5	1.901	2.849	7.1	17.8
3 12	12 7.39	+ 3 58.7	1.855	2.840	3.3	17.5
3 22	12 0.52	+ 5 11.7	1.838	2.831	2.1	17.4
4 1	11 53.67	+ 6 19.4	1.848	2.822	5.7	17.6
4 11	11 47.71	+ 7 15.4	1.886	2.813	9.5	17.8
4 21	11 43.29	+ 7 55.7	1.947	2.805	12.9	18.0

122747 2000 ST_{55} 3 20.8 96°.07 1°.0/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.52	− 5 9.9	1.920	2.694	15.5	20.3
2 21	12 22.71	− 4 59.6	1.837	2.703	12.3	20.1
3 2	12 16.64	− 4 33.8	1.777	2.711	8.6	19.9
3 12	12 8.90	− 3 55.1	1.741	2.720	4.5	19.7
3 22	12 0.32	− 3 8.0	1.733	2.729	1.0	19.4
4 1	11 51.90	− 2 18.5	1.754	2.737	4.6	19.7
4 11	11 44.60	− 1 33.0	1.801	2.746	8.7	20.0
4 21	11 39.11	− 0 56.4	1.874	2.754	12.3	20.2

501155 2013 TP_{72} 3 20.8 182°.99 0°.4/21.3 17

2 11	12 25.50	− 4 37.6	2.529	3.289	12.5	23.1
2 21	12 21.40	− 4 7.9	2.431	3.290	9.9	23.0
3 2	12 15.51	− 3 25.3	2.357	3.290	6.9	22.8
3 12	12 8.31	− 2 32.4	2.310	3.290	3.4	22.5
3 22	12 0.41	− 1 33.4	2.292	3.289	0.5	22.3
4 1	11 52.57	− 0 33.4	2.305	3.287	3.9	22.6
4 11	11 45.53	+ 0 22.2	2.348	3.284	7.3	22.8
4 21	11 39.86	+ 1 9.2	2.416	3.281	10.4	23.0

20330 Manwell 3 20.8 241°.57 0°.3/21.1 18

2 11	12 25.14	− 3 26.3	2.052	2.831	14.4	19.4
2 21	12 21.61	− 3 5.6	1.955	2.825	11.5	19.2
3 2	12 15.93	− 2 30.5	1.880	2.819	7.9	19.0
3 12	12 8.60	− 1 43.9	1.831	2.813	3.9	18.7
3 22	12 0.37	− 0 50.6	1.810	2.806	0.5	18.4
4 1	11 52.16	+ 0 3.4	1.818	2.800	4.7	18.7
4 11	11 44.90	+ 0 51.8	1.853	2.793	8.8	19.0
4 21	11 39.31	+ 1 30.0	1.912	2.786	12.4	19.2

54686 2001 DU_{8} 3 20.8 68°.17 9°.8/11.6 18 R

2 11	12 35.16	− 2 53.9	0.777	1.615	26.9	18.2
2 21	12 31.26	+ 3 39.1	0.751	1.662	19.8	18.0
3 2	12 23.03	+10 41.5	0.750	1.708	13.0	17.8
3 12	12 11.92	+17 21.9	0.780	1.753	9.8	17.8
3 22	11 59.98	+22 53.6	0.839	1.797	12.8	18.1
4 1	11 49.35	+26 53.9	0.924	1.840	17.6	18.6
4 11	11 41.67	+29 25.1	1.030	1.882	21.9	19.0
4 21	11 37.60	+30 43.4	1.151	1.922	25.0	19.4

169638 2002 JJ_{21} 3 20.8 319°.41 0°.3/20.6 17

2 11	12 25.22	− 0 41.1	1.316	2.134	19.0	19.9
2 21	12 23.07	− 0 41.3	1.222	2.115	15.2	19.6
3 2	12 17.74	− 0 25.3	1.147	2.097	10.5	19.3
3 12	12 9.78	+ 0 3.8	1.095	2.079	5.1	18.9
3 22	12 0.19	+ 0 40.0	1.066	2.062	0.9	18.6
4 1	11 50.43	+ 1 15.4	1.062	2.046	6.9	18.9
4 11	11 42.07	+ 1 41.7	1.082	2.030	12.5	19.2
4 21	11 36.27	+ 1 53.1	1.122	2.016	17.6	19.4

284394 2006 TT_{57} 3 20.8 149°.18 0°.4/21.4 18

2 11	12 23.22	− 4 20.5	2.859	3.618	11.2	21.8
2 21	12 19.36	− 3 54.1	2.767	3.626	8.9	21.6
3 2	12 13.99	− 3 16.7	2.700	3.633	6.1	21.4
3 12	12 7.53	− 2 31.0	2.660	3.640	3.0	21.2
3 22	12 0.54	− 1 40.4	2.650	3.646	0.5	21.0
4 1	11 53.64	− 0 49.1	2.671	3.653	3.4	21.3
4 11	11 47.43	− 0 1.6	2.721	3.658	6.4	21.5
4 21	11 42.41	+ 0 38.6	2.798	3.664	9.1	21.7

127002 2002 FE_{38} 3 20.8 257°.66 3°.7/17.6 18

2 11	12 29.06	+ 6 26.8	1.728	2.538	15.5	19.7
2 21	12 25.24	+ 7 12.9	1.632	2.522	12.2	19.4
3 2	12 18.74	+ 8 9.2	1.557	2.506	8.3	19.1
3 12	12 10.09	+ 9 9.0	1.508	2.489	4.7	18.9
3 22	12 0.20	+10 4.4	1.487	2.472	4.3	18.8
4 1	11 50.25	+10 47.5	1.492	2.455	8.0	19.0
4 11	11 41.46	+11 12.2	1.524	2.437	12.2	19.2
4 21	11 34.77	+11 16.1	1.577	2.419	16.1	19.4

381619 2008 WE_{130} 3 20.8 346°.42 1°.9/19.1 17

2 11	12 23.36	+ 2 19.4	1.777	2.586	15.1	20.8
2 21	12 20.51	+ 2 51.4	1.691	2.581	11.8	20.6
3 2	12 15.32	+ 3 35.2	1.627	2.577	7.9	20.4
3 12	12 8.36	+ 4 25.7	1.589	2.573	3.8	20.1
3 22	12 0.45	+ 5 16.6	1.577	2.570	2.3	20.0
4 1	11 52.62	+ 6 0.7	1.593	2.567	6.2	20.2
4 11	11 45.90	+ 6 32.3	1.634	2.565	10.4	20.5
4 21	11 41.04	+ 6 48.0	1.698	2.563	14.1	20.7

248597 2006 DG_{22} 3 20.8 196°.20 0°.9/19.9 17

2 11	12 26.52	+ 0 22.5	2.202	2.986	13.4	21.3
2 21	12 22.48	+ 0 45.1	2.109	2.985	10.5	21.1
3 2	12 16.40	+ 1 18.4	2.040	2.983	7.1	20.8
3 12	12 8.80	+ 1 58.6	1.998	2.981	3.3	20.6
3 22	12 0.40	+ 2 41.0	1.984	2.979	1.2	20.4
4 1	11 52.07	+ 3 20.4	2.000	2.977	4.9	20.7
4 11	11 44.67	+ 3 51.8	2.043	2.974	8.6	20.9
4 21	11 38.86	+ 4 12.0	2.111	2.971	11.9	21.1

9476 1998 QQ_{36} 3 20.8 249°.15 1°.1/21.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.19	− 6 24.3	1.826	2.602	16.1	18.3
2 21	12 22.02	− 6 0.9	1.726	2.592	13.0	18.0
3 2	12 16.43	− 5 18.2	1.647	2.582	9.2	17.8
3 12	12 8.94	− 4 18.9	1.593	2.572	4.8	17.5
3 22	12 0.37	− 3 8.0	1.566	2.562	1.1	17.2
4 1	11 51.76	− 1 53.0	1.567	2.551	5.0	17.4
4 11	11 44.20	− 0 42.0	1.595	2.540	9.5	17.7
4 21	11 38.52	+ 0 17.9	1.647	2.529	13.6	17.9

337348 2001 OC_{23} 3 20.8 107°.02 6°.8/11.3 18

2 11	12 26.12	+22 0.4	2.589	3.395	11.0	20.6
2 21	12 21.77	+23 25.0	2.541	3.414	9.0	20.5
3 2	12 15.65	+24 45.0	2.517	3.432	7.4	20.4
3 12	12 8.33	+25 53.4	2.521	3.451	6.8	20.4
3 22	12 0.48	+26 44.7	2.553	3.468	7.6	20.5
4 1	11 52.88	+27 15.1	2.612	3.486	9.2	20.6
4 11	11 46.22	+27 23.5	2.695	3.503	11.1	20.8
4 21	11 41.04	+27 11.2	2.798	3.520	12.8	20.9

171373 2006 MN_{14} 3 20.8 147°.46 8°.3/13.4 18

2 11	12 39.23	+23 54.2	2.092	2.882	13.8	20.2
2 21	12 32.37	+24 50.1	2.030	2.892	11.5	20.0
3 2	12 23.00	+25 38.7	1.992	2.902	9.4	19.9
3 12	12 11.87	+26 11.5	1.981	2.911	8.3	19.9
3 22	12 0.02	+26 22.1	1.997	2.920	8.9	19.9
4 1	11 48.60	+26 7.0	2.041	2.928	10.8	20.1
4 11	11 38.67	+25 26.9	2.109	2.935	13.1	20.2
4 21	11 30.93	+24 25.0	2.200	2.941	15.3	20.4

433520 2013 WE_{70} 3 20.8 183°.56 3°.9/25.9 17

2 11	12 25.48	−16 49.6	2.756	3.449	13.1	22.7
2 21	12 21.34	−16 48.1	2.650	3.450	11.0	22.5
3 2	12 15.48	−16 29.2	2.565	3.450	8.6	22.3
3 12	12 8.32	−15 53.1	2.505	3.449	6.1	22.2
3 22	12 0.48	−15 1.4	2.474	3.448	4.1	22.0
4 1	11 52.65	−13 58.0	2.472	3.445	4.4	22.0
4 11	11 45.57	−12 48.1	2.500	3.443	6.6	22.2
4 21	11 39.80	−11 37.6	2.555	3.439	9.2	22.3

90788 1994 PQ_{20} 3 20.8 235°.97 2°.2/22.5 17

2 11	12 31.48	− 6 34.8	1.755	2.520	17.0	21.2
2 21	12 27.18	− 6 48.7	1.651	2.508	13.9	21.0
3 2	12 20.12	− 6 46.2	1.568	2.496	10.0	20.7
3 12	12 10.80	− 6 28.0	1.509	2.484	5.7	20.4
3 22	12 0.13	− 5 57.0	1.477	2.471	2.2	20.2
4 1	11 49.32	− 5 18.4	1.473	2.457	5.3	20.3
4 11	11 39.66	− 4 39.0	1.497	2.443	9.9	20.6
4 21	11 32.13	− 4 5.3	1.544	2.428	14.2	20.8

54800 2001 MC_{15} 3 20.8 142°.94 0°.3/21.2 18 R

2 11	12 28.17	− 3 48.7	2.347	3.109	13.3	20.0
2 21	12 23.52	− 3 24.8	2.262	3.122	10.5	19.8
3 2	12 16.96	− 2 48.1	2.200	3.134	7.2	19.6
3 12	12 9.02	− 2 1.8	2.165	3.146	3.6	19.4
3 22	12 0.40	− 1 10.3	2.160	3.157	0.5	19.2
4 1	11 51.94	− 0 18.6	2.186	3.167	4.1	19.5
4 11	11 44.42	+ 0 28.0	2.240	3.176	7.7	19.7
4 21	11 38.44	+ 1 5.5	2.320	3.185	10.8	19.9

366402 2001 SY_{79} 3 20.8 155°.72 2°.1/23.3 16

2 11	12 26.57	− 9 59.8	2.316	3.056	14.1	21.7
2 21	12 22.40	− 9 41.4	2.223	3.064	11.5	21.5
3 2	12 16.28	− 9 5.9	2.153	3.071	8.3	21.3
3 12	12 8.73	− 8 15.3	2.108	3.078	4.9	21.1
3 22	12 0.44	− 7 13.2	2.093	3.084	2.2	20.9
4 1	11 52.26	− 6 5.0	2.107	3.090	4.0	21.0
4 11	11 44.99	− 4 57.2	2.150	3.095	7.4	21.3
4 21	11 39.26	− 3 55.5	2.220	3.099	10.6	21.5

208386 2001 SQ_{131} 3 20.8 48°.42 0°.5/21.3 17

2 11	12 27.58	− 2 6.4	2.150	2.925	14.0	20.2
2 21	12 23.32	− 2 13.0	2.062	2.930	11.1	20.0
3 2	12 16.97	− 2 8.9	1.997	2.935	7.6	19.8
3 12	12 9.08	− 1 56.4	1.958	2.939	3.8	19.6
3 22	12 0.40	− 1 38.8	1.948	2.944	0.6	19.3
4 1	11 51.83	− 1 20.1	1.967	2.949	4.4	19.6
4 11	11 44.26	− 1 4.8	2.014	2.954	8.1	19.8
4 21	11 38.34	− 0 56.2	2.085	2.960	11.5	20.1

135319 2001 ST_{289} 3 20.8 115°.91 3°.4/24.4 18

2 11	12 27.46	−12 46.6	2.096	2.827	15.6	20.3
2 21	12 23.27	−12 46.3	2.013	2.843	12.9	20.1
3 2	12 16.95	−12 26.7	1.951	2.859	9.6	20.0
3 12	12 9.06	−11 48.8	1.913	2.874	6.2	19.8
3 22	12 0.41	−10 55.6	1.903	2.889	3.6	19.6
4 1	11 51.92	− 9 52.6	1.922	2.903	4.6	19.7
4 11	11 44.51	− 8 46.6	1.969	2.917	7.8	20.0
4 21	11 38.83	− 7 44.3	2.042	2.930	11.0	20.2

439154 2011 UK_{235} 3 20.8 290°.19 2°.1/23.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.66	− 8 47.8	2.413	3.164	13.3	21.1
2 21	12 19.44	− 8 45.1	2.303	3.151	10.8	20.9
3 2	12 14.36	− 8 27.7	2.216	3.138	7.9	20.7
3 12	12 7.87	− 7 56.7	2.154	3.125	4.7	20.4
3 22	12 0.56	− 7 14.7	2.120	3.112	2.2	20.2
4 1	11 53.22	− 6 26.1	2.115	3.099	3.9	20.3
4 11	11 46.61	− 5 36.2	2.139	3.086	7.3	20.5
4 21	11 41.40	− 4 50.1	2.188	3.073	10.5	20.7

141760 2002 LQ_{61} 3 20.8 163°.58 0°.8/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.39	− 1 24.7	2.132	2.911	14.0	21.7
2 21	12 23.18	− 0 41.4	2.045	2.917	11.0	21.5
3 2	12 16.88	+ 0 15.4	1.981	2.922	7.4	21.2
3 12	12 9.04	+ 1 21.3	1.944	2.927	3.4	21.0
3 22	12 0.42	+ 2 30.4	1.936	2.931	1.2	20.8
4 1	11 51.91	+ 3 36.1	1.958	2.934	5.0	21.1
4 11	11 44.41	+ 4 32.3	2.008	2.937	8.8	21.4
4 21	11 38.56	+ 5 14.9	2.082	2.939	12.2	21.6

46882 1998 RL_9 3 20.8 220°.96 1°.1/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.89	− 1 16.2	1.767	2.563	15.7	19.6
2 21	12 21.76	− 0 28.2	1.678	2.561	12.4	19.4
3 2	12 16.22	+ 0 36.5	1.612	2.558	8.3	19.2
3 12	12 8.83	+ 1 52.7	1.570	2.555	3.9	18.9
3 22	12 0.44	+ 3 13.1	1.557	2.551	1.6	18.7
4 1	11 52.13	+ 4 29.1	1.571	2.548	6.0	19.0
4 11	11 44.94	+ 5 33.0	1.611	2.544	10.4	19.2
4 21	11 39.66	+ 6 19.7	1.675	2.541	14.2	19.5

40092 Memel 3 20.8 308°.32 4°.7/25.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.88	−13 40.3	1.895	2.635	16.8	19.1
2 21	12 21.80	−14 7.7	1.793	2.626	14.1	18.9
3 2	12 16.32	−14 15.3	1.711	2.617	10.9	18.6
3 12	12 8.93	−14 2.3	1.652	2.608	7.5	18.4
3 22	12 0.43	−13 29.9	1.619	2.599	4.9	18.2
4 1	11 51.87	−12 42.1	1.613	2.591	5.7	18.3
4 11	11 44.31	−11 45.9	1.633	2.583	8.9	18.4
4 21	11 38.60	−10 48.8	1.677	2.575	12.5	18.6

119744 2001 YN_{42} 3 20.8 217°.17 1°.7/22.7 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.23	− 7 50.2	2.442	3.187	13.3	20.6
2 21	12 22.96	− 7 40.6	2.332	3.178	10.8	20.4
3 2	12 16.74	− 7 16.4	2.245	3.167	7.8	20.2
3 12	12 9.01	− 6 39.1	2.184	3.157	4.4	20.0
3 22	12 0.43	− 5 51.7	2.152	3.145	1.7	19.8
4 1	11 51.81	− 4 58.8	2.150	3.133	4.0	19.9
4 11	11 43.98	− 4 6.0	2.177	3.120	7.5	20.1
4 21	11 37.60	− 3 18.3	2.231	3.106	10.8	20.3

388146 2005 WS_{137} 3 20.8 112°.47 1°.0/21.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.16	− 5 34.3	1.982	2.753	15.2	22.1
2 21	12 22.37	− 5 15.8	1.899	2.763	12.1	21.9
3 2	12 16.41	− 4 41.4	1.838	2.772	8.4	21.7
3 12	12 8.84	− 3 54.0	1.802	2.781	4.4	21.5
3 22	12 0.47	− 2 58.3	1.794	2.790	1.0	21.2
4 1	11 52.25	− 2 0.5	1.815	2.799	4.5	21.5
4 11	11 45.10	− 1 7.1	1.864	2.807	8.5	21.8
4 21	11 39.70	− 0 23.3	1.937	2.815	12.0	22.0

289422 2005 ER_8 3 20.8 79°.26 1°.4/19.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.10	− 0 8.2	1.522	2.328	17.4	21.2
2 21	12 23.71	+ 0 31.8	1.451	2.338	13.6	20.9
3 2	12 17.60	+ 1 27.8	1.401	2.349	9.1	20.7
3 12	12 9.49	+ 2 33.8	1.375	2.360	4.2	20.4
3 22	12 0.39	+ 3 41.8	1.376	2.370	1.9	20.3
4 1	11 51.56	+ 4 43.1	1.403	2.381	6.5	20.6
4 11	11 44.15	+ 5 30.4	1.456	2.391	11.1	20.9
4 21	11 38.97	+ 5 59.3	1.532	2.402	15.1	21.2

285380 1999 TQ_{139} 3 20.8 129°.17 1°.7/22.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.70	− 8 22.6	1.971	2.727	15.7	21.5
2 21	12 23.57	− 7 58.6	1.889	2.742	12.6	21.3
3 2	12 17.22	− 7 15.9	1.828	2.755	9.0	21.1
3 12	12 9.23	− 6 17.4	1.793	2.768	4.9	20.9
3 22	12 0.44	− 5 7.8	1.786	2.780	1.7	20.7
4 1	11 51.83	− 3 54.1	1.808	2.792	4.5	20.9
4 11	11 44.35	− 2 43.7	1.858	2.803	8.4	21.2
4 21	11 38.68	− 1 42.8	1.934	2.814	12.0	21.4

295172 2008 FW_{81} 3 20.8 77°.13 0°.7/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.14	− 1 57.8	1.693	2.489	16.3	21.1
2 21	12 21.96	− 1 19.3	1.614	2.495	12.8	20.9
3 2	12 16.34	− 0 24.3	1.556	2.501	8.7	20.6
3 12	12 8.87	+ 0 42.4	1.523	2.507	4.1	20.4
3 22	12 0.48	+ 1 53.6	1.518	2.513	1.1	20.2
4 1	11 52.26	+ 3 1.3	1.540	2.519	5.7	20.5
4 11	11 45.26	+ 3 57.9	1.588	2.526	10.1	20.8
4 21	11 40.24	+ 4 38.5	1.659	2.532	14.0	21.0

464326 2016 AV_{109} 3 20.8 339°.20 3°.1/22.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 27.83	− 6 26.0	1.383	2.175	19.6	20.8
2 21	12 24.92	− 7 3.4	1.296	2.168	16.0	20.5
3 2	12 18.89	− 7 23.1	1.227	2.161	11.6	20.2
3 12	12 10.32	− 7 25.2	1.180	2.156	6.8	19.9
3 22	12 0.27	− 7 11.8	1.158	2.150	3.1	19.7
4 1	11 50.19	− 6 48.2	1.161	2.146	6.1	19.9
4 11	11 41.56	− 6 21.9	1.188	2.142	11.0	20.1
4 21	11 35.45	− 5 59.9	1.237	2.139	15.7	20.4

506405 2017 SK_6 3 20.8 163°.52 4°.3/15.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.45	+12 21.3	2.586	3.391	11.0	21.4
2 21	12 20.53	+13 20.8	2.508	3.394	8.6	21.2
3 2	12 14.91	+14 22.9	2.456	3.397	6.2	21.1
3 12	12 8.05	+15 21.7	2.431	3.400	4.4	21.0
3 22	12 0.60	+16 11.8	2.436	3.402	4.9	21.0
4 1	11 53.26	+16 48.5	2.469	3.404	7.0	21.1
4 11	11 46.74	+17 9.0	2.529	3.405	9.5	21.3
4 21	11 41.58	+17 12.4	2.612	3.407	11.8	21.5

320649 2008 CN_{127} 3 20.8 274°.99 1°.9/22.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.61	− 6 22.7	1.711	2.487	17.0	21.1
2 21	12 24.04	− 6 29.4	1.620	2.485	13.8	20.9
3 2	12 17.88	− 6 18.8	1.550	2.482	9.8	20.7
3 12	12 9.68	− 5 52.5	1.503	2.480	5.4	20.4
3 22	12 0.37	− 5 14.3	1.483	2.478	1.9	20.2
4 1	11 51.09	− 4 29.9	1.491	2.475	5.1	20.4
4 11	11 43.01	− 3 46.7	1.525	2.473	9.6	20.6
4 21	11 36.99	− 3 10.7	1.582	2.471	13.6	20.8

375759 2009 SU_{100} 3 20.8 209°.14 7°.2/13.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 38.74	+24 6.7	2.567	3.346	11.9	21.9
2 21	12 31.76	+24 54.8	2.483	3.338	9.9	21.7
3 2	12 22.56	+25 37.0	2.424	3.330	8.1	21.6
3 12	12 11.74	+26 6.3	2.393	3.321	7.3	21.5
3 22	12 0.12	+26 16.8	2.391	3.311	7.8	21.5
4 1	11 48.70	+26 5.2	2.418	3.300	9.6	21.6
4 11	11 38.40	+25 31.1	2.472	3.288	11.7	21.8
4 21	11 29.93	+24 36.7	2.548	3.276	13.8	21.9

3116 Goodricke 3 20.8 187°.22 3°.2/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.64	+ 5 11.8	1.875	2.673	14.9	16.8
2 21	12 26.10	+ 6 5.7	1.789	2.673	11.6	16.6
3 2	12 19.09	+ 7 9.8	1.726	2.673	7.8	16.4
3 12	12 10.20	+ 8 17.7	1.690	2.671	4.2	16.1
3 22	12 0.32	+ 9 21.7	1.682	2.669	3.7	16.1
4 1	11 50.55	+10 14.3	1.703	2.665	7.2	16.3
4 11	11 41.96	+10 50.1	1.750	2.661	11.1	16.5
4 21	11 35.34	+11 6.6	1.821	2.656	14.6	16.7

34389 2000 RJ_{65} 3 20.8 210°.74 0°.2/20.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.91	− 1 33.4	2.748	3.519	11.4	19.8
2 21	12 20.06	− 1 11.2	2.647	3.514	8.9	19.6
3 2	12 14.59	− 0 39.1	2.571	3.509	6.1	19.5
3 12	12 7.93	+ 0 0.0	2.522	3.504	2.9	19.2
3 22	12 0.62	+ 0 42.5	2.502	3.499	0.5	19.0
4 1	11 53.35	+ 1 24.3	2.513	3.493	3.8	19.3
4 11	11 46.77	+ 2 1.0	2.553	3.487	7.0	19.5
4 21	11 41.42	+ 2 29.6	2.619	3.480	9.9	19.6

349932 2009 XO_{18} 3 20.8 138°.45 2°.4/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.08	+ 3 57.1	2.154	2.953	13.2	20.9
2 21	12 21.36	+ 4 47.1	2.073	2.958	10.2	20.7
3 2	12 15.63	+ 5 46.4	2.016	2.963	6.8	20.5
3 12	12 8.46	+ 6 49.6	1.986	2.968	3.5	20.3
3 22	12 0.56	+ 7 50.4	1.984	2.973	2.9	20.3
4 1	11 52.79	+ 8 42.7	2.012	2.978	6.0	20.5
4 11	11 46.00	+ 9 21.7	2.066	2.982	9.4	20.7
4 21	11 40.79	+ 9 44.8	2.145	2.986	12.5	20.9

402989 2007 VF_{89} 3 20.8 151°.52 1°.1/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.01	− 0 9.7	1.975	2.760	14.7	21.8
2 21	12 24.59	+ 0 29.9	1.893	2.769	11.5	21.6
3 2	12 17.92	+ 1 22.6	1.834	2.777	7.7	21.4
3 12	12 9.58	+ 2 23.4	1.801	2.785	3.6	21.1
3 22	12 0.41	+ 3 26.2	1.797	2.792	1.5	21.0
4 1	11 51.41	+ 4 24.3	1.822	2.798	5.5	21.3
4 11	11 43.53	+ 5 11.5	1.875	2.804	9.4	21.5
4 21	11 37.47	+ 5 44.3	1.952	2.809	12.9	21.8

265674 2005 UT_{55} 3 20.8 152°.64 1°.3/19.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.40	+ 1 2.6	2.168	2.953	13.6	21.2
2 21	12 23.14	+ 1 36.0	2.083	2.960	10.6	21.0
3 2	12 16.84	+ 2 20.0	2.022	2.966	7.1	20.8
3 12	12 9.04	+ 3 10.3	1.988	2.972	3.3	20.6
3 22	12 0.49	+ 4 1.6	1.983	2.977	1.6	20.5
4 1	11 52.07	+ 4 48.2	2.007	2.982	5.2	20.7
4 11	11 44.64	+ 5 25.0	2.059	2.986	8.8	20.9
4 21	11 38.85	+ 5 48.9	2.136	2.990	12.0	21.2

464140 2014 XU_2 3 20.8 25°.54 1°.3/21.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 29.43	− 3 36.5	1.722	2.503	16.7	21.1
2 21	12 25.38	− 3 53.8	1.636	2.505	13.4	20.8
3 2	12 18.72	− 3 57.4	1.571	2.507	9.4	20.6
3 12	12 10.06	− 3 49.1	1.530	2.510	4.9	20.3
3 22	12 0.35	− 3 32.2	1.517	2.513	1.3	20.1
4 1	11 50.74	− 3 11.7	1.531	2.515	5.1	20.4
4 11	11 42.38	− 2 53.2	1.572	2.518	9.5	20.6
4 21	11 36.11	− 2 41.4	1.637	2.522	13.5	20.9

504682 2009 FQ_6 3 20.8 326°.09 1°.4/22.2 17

2 11	12 27.03	− 4 47.1	2.199	2.965	14.0	20.9
2 21	12 22.96	− 5 1.1	2.103	2.962	11.3	20.7
3 2	12 16.81	− 5 3.1	2.028	2.959	8.0	20.5
3 12	12 9.08	− 4 54.6	1.979	2.956	4.3	20.2
3 22	12 0.49	− 4 38.2	1.959	2.954	1.4	20.0
4 1	11 51.92	− 4 17.8	1.968	2.951	4.2	20.2
4 11	11 44.28	− 3 58.0	2.004	2.949	7.9	20.4
4 21	11 38.23	− 3 42.6	2.066	2.946	11.3	20.6

501407 2013 YY_{108} 3 20.8 107°.63 1°.0/21.9 17

2 11	12 27.14	− 4 18.1	2.280	3.045	13.6	21.6
2 21	12 22.86	− 4 20.5	2.192	3.052	10.8	21.4
3 2	12 16.62	− 4 11.0	2.126	3.058	7.6	21.2
3 12	12 8.93	− 3 51.6	2.087	3.065	4.0	21.0
3 22	12 0.51	− 3 25.6	2.076	3.072	1.0	20.8
4 1	11 52.20	− 2 57.0	2.095	3.078	4.0	21.0
4 11	11 44.81	− 2 30.4	2.143	3.085	7.6	21.2
4 21	11 38.99	− 2 9.8	2.215	3.091	10.8	21.5

413113 2001 VS_{111} 3 20.9 45°.99 8°.5/13.9 18

2 11	12 30.87	+19 31.5	1.610	2.433	15.8	20.2
2 21	12 26.54	+20 36.7	1.554	2.442	12.8	20.1
3 2	12 19.42	+21 38.0	1.519	2.451	10.0	19.9
3 12	12 10.32	+22 25.2	1.509	2.461	8.5	19.8
3 22	12 0.35	+22 50.0	1.525	2.471	9.2	19.9
4 1	11 50.81	+22 47.4	1.565	2.481	11.6	20.1
4 11	11 42.86	+22 17.0	1.629	2.492	14.5	20.3
4 21	11 37.23	+21 22.0	1.712	2.503	17.2	20.5

439776 2015 GR_{24} 3 20.9 236°.88 4°.6/15.2 17

2 11	12 23.84	+11 48.0	2.370	3.181	11.8	20.9
2 21	12 20.29	+12 51.8	2.287	3.177	9.2	20.7
3 2	12 14.88	+13 59.2	2.230	3.173	6.6	20.5
3 12	12 8.11	+15 3.9	2.199	3.169	4.7	20.4
3 22	12 0.64	+15 59.8	2.197	3.165	5.2	20.4
4 1	11 53.25	+16 41.5	2.224	3.161	7.5	20.6
4 11	11 46.72	+17 5.4	2.276	3.157	10.2	20.7
4 21	11 41.65	+17 10.5	2.351	3.152	12.8	20.9

119453 2001 TF_{186} 3 20.9 323°.05 0°.3/21.1 18

2 11	12 25.52	− 2 25.4	1.583	2.382	17.1	19.3
2 21	12 22.67	− 2 21.9	1.491	2.372	13.7	19.0
3 2	12 17.10	− 2 2.6	1.419	2.363	9.5	18.8
3 12	12 9.39	− 1 30.6	1.371	2.353	4.7	18.4
3 22	12 0.45	− 0 50.8	1.348	2.345	0.6	18.1
4 1	11 51.50	− 0 10.1	1.353	2.336	5.7	18.5
4 11	11 43.76	+ 0 24.4	1.382	2.328	10.6	18.7
4 21	11 38.18	+ 0 47.2	1.434	2.321	14.9	18.9

434521 2005 SY_{199} 3 20.9 238°.86 5°.0/27.9 18

2 11	12 23.38	−21 24.6	3.007	3.668	12.7	21.9
2 21	12 19.74	−21 35.1	2.885	3.653	11.0	21.7
3 2	12 14.45	−21 28.2	2.783	3.639	9.0	21.5
3 12	12 7.92	−21 3.0	2.705	3.624	6.9	21.4
3 22	12 0.66	−20 20.1	2.655	3.608	5.4	21.2
4 1	11 53.34	−19 22.0	2.633	3.592	5.2	21.2
4 11	11 46.63	−18 13.2	2.640	3.576	6.7	21.3
4 21	11 41.11	−16 59.3	2.674	3.559	8.8	21.4

281951 2011 GR_{39} 3 20.9 174°.29 2°.3/18.4 18

2 11	12 24.31	+ 2 47.0	2.044	2.844	13.8	20.8
2 21	12 20.93	+ 3 42.0	1.959	2.844	10.7	20.6
3 2	12 15.45	+ 4 48.4	1.897	2.845	7.1	20.4
3 12	12 8.43	+ 6 0.5	1.862	2.846	3.5	20.2
3 22	12 0.60	+ 7 11.4	1.856	2.846	2.8	20.1
4 1	11 52.88	+ 8 14.2	1.878	2.846	6.1	20.3
4 11	11 46.14	+ 9 3.2	1.927	2.846	9.8	20.5
4 21	11 41.05	+ 9 35.1	2.000	2.846	13.0	20.7

472773 2015 FU_{136} 3 20.9 291°.22 4°.8/16.2 17

2 11	12 28.87	+13 20.2	2.175	2.981	12.8	20.3
2 21	12 24.42	+13 53.9	2.085	2.971	10.1	20.1
3 2	12 17.81	+14 29.0	2.020	2.961	7.3	19.9
3 12	12 9.56	+14 59.4	1.981	2.951	5.1	19.8
3 22	12 0.46	+15 19.5	1.970	2.941	5.4	19.8
4 1	11 51.44	+15 24.6	1.988	2.931	7.8	19.9
4 11	11 43.44	+15 12.3	2.031	2.921	10.9	20.0
4 21	11 37.14	+14 42.4	2.098	2.911	13.7	20.2

63892 2001 SX_4 3 20.9 190°.89 5°.0/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.46	+17 13.9	2.946	3.746	10.0	19.2
2 21	12 21.92	+18 10.5	2.866	3.744	8.0	19.0
3 2	12 15.78	+19 6.3	2.812	3.742	6.1	18.9
3 12	12 8.48	+19 56.0	2.786	3.739	5.0	18.8
3 22	12 0.62	+20 34.8	2.790	3.736	5.5	18.8
4 1	11 52.85	+20 58.9	2.822	3.732	7.3	18.9
4 11	11 45.84	+21 6.5	2.881	3.728	9.4	19.1
4 21	11 40.08	+20 57.4	2.963	3.724	11.3	19.2

254615 2005 GA_{226} 3 20.9 268°.76 3°.3/17.8 17

2 11	12 26.24	+ 4 25.3	1.784	2.593	15.1	21.2
2 21	12 23.01	+ 5 22.3	1.683	2.573	11.9	20.9
3 2	12 17.25	+ 6 32.5	1.604	2.554	8.0	20.6
3 12	12 9.47	+ 7 49.4	1.551	2.534	4.3	20.4
3 22	12 0.48	+ 9 4.8	1.526	2.513	3.9	20.3
4 1	11 51.38	+10 10.0	1.528	2.493	7.6	20.5
4 11	11 43.32	+10 57.8	1.556	2.472	11.9	20.6
4 21	11 37.21	+11 24.3	1.606	2.450	15.8	20.8

334918 2003 YU_{88} 3 20.9 96°.45 1°.8/18.8 18

2 11	12 26.18	+ 3 12.5	2.270	3.061	12.8	21.1
2 21	12 22.01	+ 3 49.1	2.197	3.078	9.9	20.9
3 2	12 15.96	+ 4 33.9	2.148	3.094	6.6	20.7
3 12	12 8.60	+ 5 22.4	2.127	3.110	3.2	20.5
3 22	12 0.62	+ 6 9.2	2.135	3.126	2.2	20.5
4 1	11 52.86	+ 6 49.2	2.172	3.142	5.3	20.7
4 11	11 46.07	+ 7 18.5	2.237	3.158	8.5	20.9
4 21	11 40.81	+ 7 34.7	2.326	3.173	11.4	21.1

12811 Rigonistern 3 20.9 66°.35 3°.2/22.9 18

2 11	12 33.94	− 6 49.9	1.340	2.121	20.6	18.1
2 21	12 29.48	− 7 29.3	1.273	2.138	16.7	17.9
3 2	12 21.76	− 7 49.5	1.224	2.155	12.0	17.6
3 12	12 11.59	− 7 50.9	1.198	2.172	7.0	17.4
3 22	12 0.23	− 7 36.4	1.197	2.190	3.2	17.2
4 1	11 49.23	− 7 11.8	1.223	2.207	6.0	17.4
4 11	11 40.02	− 6 44.9	1.273	2.224	10.8	17.7
4 21	11 33.55	− 6 22.5	1.346	2.242	15.1	18.0

419812 2010 WL_{69} 3 20.9 67°.55 0°.5/21.3 18

2 11	12 26.92	− 3 53.8	1.661	2.449	16.9	21.3
2 21	12 23.34	− 3 36.6	1.589	2.463	13.4	21.1
3 2	12 17.25	− 3 2.6	1.537	2.478	9.2	20.9
3 12	12 9.33	− 2 15.6	1.510	2.492	4.6	20.7
3 22	12 0.53	− 1 21.3	1.510	2.506	0.6	20.4
4 1	11 51.97	− 0 27.0	1.537	2.521	5.2	20.8
4 11	11 44.73	+ 0 20.1	1.591	2.535	9.6	21.1
4 21	11 39.55	+ 0 55.2	1.668	2.550	13.4	21.3

469265 2016 JT_{30} 3 20.9 343°.47 9°.5/12.1 17

2 11	12 26.30	+20 9.8	1.539	2.373	15.9	20.1
2 21	12 23.35	+21 36.2	1.473	2.366	13.0	19.9
3 2	12 17.53	+23 0.2	1.429	2.361	10.6	19.7
3 12	12 9.56	+24 10.0	1.409	2.356	9.5	19.6
3 22	12 0.49	+24 55.5	1.413	2.351	10.5	19.7
4 1	11 51.65	+25 9.8	1.440	2.347	13.1	19.8
4 11	11 44.30	+24 51.1	1.489	2.344	16.1	20.0
4 21	11 39.26	+24 2.2	1.556	2.341	18.9	20.2

296352 2009 FA_{22} 3 20.9 47°.82 0°.9/22.0 18

2 11	12 20.20	− 8 51.2	2.047	2.814	14.9	19.9
2 21	12 17.66	− 7 48.8	1.967	2.827	11.9	19.7
3 2	12 13.19	− 6 25.9	1.909	2.841	8.3	19.5
3 12	12 7.32	− 4 46.8	1.877	2.855	4.3	19.3
3 22	12 0.79	− 2 58.3	1.874	2.870	0.9	19.1
4 1	11 54.43	− 1 8.9	1.901	2.885	4.3	19.4
4 11	11 49.04	+ 0 33.0	1.956	2.900	8.1	19.6
4 21	11 45.19	+ 2 0.9	2.036	2.915	11.5	19.9

498173 2007 TX_{200} 3 20.9 137°.32 1°.2/22.6 17

2 11	12 24.18	− 7 44.0	2.921	3.662	11.4	22.9
2 21	12 20.09	− 7 19.9	2.831	3.676	9.2	22.8
3 2	12 14.51	− 6 43.3	2.766	3.689	6.5	22.6
3 12	12 7.88	− 5 56.5	2.728	3.701	3.6	22.5
3 22	12 0.73	− 5 2.6	2.720	3.714	1.2	22.3
4 1	11 53.68	− 4 5.8	2.742	3.725	3.2	22.5
4 11	11 47.35	− 3 10.8	2.795	3.736	6.1	22.7
4 21	11 42.19	− 2 21.3	2.875	3.747	8.7	22.9

465362 2008 AN_{105} 3 20.9 119°.05 1°.7/22.3 18

2 11	12 29.47	− 6 31.7	1.814	2.581	16.5	22.2
2 21	12 25.21	− 6 30.1	1.733	2.592	13.3	22.0
3 2	12 18.48	− 6 11.6	1.672	2.603	9.4	21.8
3 12	12 9.93	− 5 38.3	1.637	2.613	5.1	21.6
3 22	12 0.45	− 4 54.3	1.629	2.623	1.7	21.4
4 1	11 51.15	− 4 5.8	1.649	2.633	4.8	21.6
4 11	11 43.09	− 3 19.4	1.697	2.643	9.0	21.9
4 21	11 37.01	− 2 40.9	1.769	2.652	12.7	22.1

137047 1998 VZ_{10} 3 20.9 83°.62 1°.4/22.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 28.51	− 7 20.4	1.778	2.545	16.8	20.1
2 21	12 24.30	− 6 56.5	1.713	2.572	13.4	19.9
3 2	12 17.72	− 6 13.7	1.668	2.599	9.4	19.7
3 12	12 9.49	− 5 15.6	1.648	2.625	5.0	19.5
3 22	12 0.52	− 4 7.9	1.656	2.651	1.4	19.3
4 1	11 51.90	− 2 58.0	1.692	2.676	4.7	19.6
4 11	11 44.59	− 1 53.6	1.756	2.701	8.8	19.9
4 21	11 39.25	− 1 0.3	1.844	2.725	12.4	20.1

370032 2000 RZ_{18} 3 20.9 188°.66 1°.5/22.7 17

2 11	12 24.60	− 9 11.6	2.431	3.175	13.4	21.7
2 21	12 20.87	− 8 36.4	2.329	3.175	10.8	21.5
3 2	12 15.30	− 7 44.0	2.250	3.173	7.7	21.3
3 12	12 8.35	− 6 36.9	2.198	3.171	4.3	21.1
3 22	12 0.67	− 5 19.2	2.175	3.169	1.5	20.9
4 1	11 53.02	− 3 56.8	2.182	3.166	3.8	21.1
4 11	11 46.19	− 2 36.4	2.219	3.162	7.3	21.3
4 21	11 40.77	− 1 23.7	2.282	3.158	10.5	21.5

275273 2010 AZ_{44} 3 20.9 156°.20 1°.9/22.8 17

2 11	12 26.13	− 7 50.8	2.161	2.917	14.5	20.8
2 21	12 22.28	− 7 47.7	2.069	2.920	11.7	20.6
3 2	12 16.36	− 7 29.0	1.998	2.923	8.4	20.4
3 12	12 8.89	− 6 56.4	1.952	2.925	4.8	20.2
3 22	12 0.60	− 6 13.3	1.934	2.927	2.0	20.0
4 1	11 52.38	− 5 24.5	1.946	2.930	4.2	20.2
4 11	11 45.10	− 4 36.1	1.985	2.931	7.8	20.4
4 21	11 39.45	− 3 53.2	2.050	2.933	11.2	20.6

419562 2010 RF_{5} 3 20.9 213°.99 1°.8/19.1 18

2 11	12 26.27	+ 0 32.2	1.867	2.663	15.0	21.6
2 21	12 22.76	+ 1 25.6	1.775	2.658	11.8	21.4
3 2	12 16.89	+ 2 33.8	1.706	2.652	7.9	21.1
3 12	12 9.22	+ 3 51.4	1.663	2.647	3.7	20.9
3 22	12 0.55	+ 5 11.0	1.647	2.640	2.2	20.7
4 1	11 51.92	+ 6 24.5	1.661	2.634	6.2	21.0
4 11	11 44.36	+ 7 24.5	1.701	2.627	10.4	21.2
4 21	11 38.65	+ 8 6.6	1.764	2.619	14.1	21.4

333831 2012 JF_{46} 3 20.9 269°.73 8°.1/11.6 18

2 11	12 29.28	+20 40.6	2.085	2.896	13.1	20.9
2 21	12 25.14	+22 4.9	1.993	2.872	10.9	20.7
3 2	12 18.56	+23 28.7	1.924	2.847	8.9	20.5
3 12	12 10.06	+24 42.7	1.882	2.821	8.1	20.4
3 22	12 0.44	+25 38.1	1.867	2.795	9.1	20.4
4 1	11 50.77	+26 8.3	1.878	2.769	11.4	20.5
4 11	11 42.13	+26 10.2	1.912	2.742	14.1	20.6
4 21	11 35.35	+25 44.9	1.966	2.715	16.7	20.7

2596 Vainu Bappu 3 20.9 141°.51 2°.9/17.2 18

2 11	12 22.97	+ 5 33.1	2.393	3.194	12.0	18.2
2 21	12 19.54	+ 6 35.9	2.312	3.199	9.2	18.1
3 2	12 14.34	+ 7 46.6	2.255	3.203	6.2	17.9
3 12	12 7.86	+ 8 59.5	2.226	3.207	3.4	17.7
3 22	12 0.74	+10 8.6	2.227	3.211	3.3	17.7
4 1	11 53.73	+11 8.1	2.256	3.215	6.0	17.9
4 11	11 47.55	+11 53.4	2.313	3.218	9.1	18.1
4 21	11 42.77	+12 22.3	2.394	3.221	11.8	18.3

45037 1999 XP_{4} 3 20.9 92°.45 1°.7/19.1 18

2 11	12 24.94	+ 1 47.8	2.006	2.803	14.1	19.6
2 21	12 21.43	+ 2 27.1	1.924	2.807	11.0	19.3
3 2	12 15.81	+ 3 17.6	1.864	2.811	7.3	19.1
3 12	12 8.62	+ 4 14.3	1.831	2.815	3.5	18.9
3 22	12 0.64	+ 5 11.2	1.826	2.819	2.1	18.8
4 1	11 52.80	+ 6 1.8	1.850	2.823	5.7	19.0
4 11	11 45.98	+ 6 40.8	1.900	2.827	9.4	19.3
4 21	11 40.84	+ 7 4.9	1.975	2.831	12.8	19.5

55761 1992 CM_{2} 3 20.9 76°.12 8°.0/30.8 18

2 11	12 28.05	−27 4.0	2.394	3.023	16.2	19.1
2 21	12 23.74	−27 57.2	2.314	3.046	14.4	19.0
3 2	12 17.31	−28 28.0	2.253	3.069	12.3	18.8
3 12	12 9.33	−28 34.0	2.213	3.092	10.2	18.7
3 22	12 0.55	−28 14.6	2.197	3.114	8.5	18.7
4 1	11 51.91	−27 32.3	2.207	3.136	8.0	18.7
4 11	11 44.30	−26 32.4	2.244	3.158	8.8	18.8
4 21	11 38.37	−25 22.3	2.305	3.180	10.5	18.9

223482 2003 YL_{32} 3 20.9 15°.31 4°.9/14.8 18

2 11	12 21.47	+13 54.0	2.392	3.209	11.5	19.0
2 21	12 18.38	+14 49.8	2.323	3.214	9.0	18.9
3 2	12 13.53	+15 46.6	2.278	3.220	6.5	18.7
3 12	12 7.46	+16 38.6	2.261	3.226	5.0	18.6
3 22	12 0.80	+17 20.2	2.271	3.233	5.5	18.7
4 1	11 54.30	+17 46.8	2.309	3.241	7.6	18.8
4 11	11 48.66	+17 56.1	2.372	3.249	10.0	19.0
4 21	11 44.42	+17 47.7	2.458	3.257	12.4	19.2

158203 2001 SA_{27} 3 20.9 22°.78 1°.2/19.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 32.02	+ 2 49.3	1.725	2.521	16.1	20.1
2 21	12 27.39	+ 2 45.2	1.640	2.521	12.7	19.8
3 2	12 20.09	+ 2 49.9	1.577	2.522	8.6	19.6
3 12	12 10.76	+ 2 59.7	1.539	2.523	4.1	19.3
3 22	12 0.37	+ 3 9.9	1.529	2.524	1.6	19.1
4 1	11 50.12	+ 3 15.6	1.547	2.525	5.9	19.4
4 11	11 41.17	+ 3 12.6	1.592	2.526	10.3	19.7
4 21	11 34.39	+ 2 58.6	1.660	2.528	14.2	19.9

399635 2004 PY_{46} 3 20.9 230°.12 2°.6/23.1 17

2 11	12 29.60	− 8 47.5	1.792	2.550	17.0	21.9
2 21	12 25.68	− 8 51.9	1.689	2.540	13.9	21.7
3 2	12 19.10	− 8 37.3	1.605	2.529	10.2	21.4
3 12	12 10.39	− 8 4.3	1.546	2.518	6.0	21.1
3 22	12 0.40	− 7 16.0	1.514	2.506	2.7	20.9
4 1	11 50.31	− 6 18.4	1.509	2.493	5.2	21.0
4 11	11 41.31	− 5 19.1	1.532	2.480	9.6	21.2
4 21	11 34.36	− 4 25.6	1.579	2.466	13.8	21.4

341538 2007 TZ_{446} 3 20.9 167°.76 4°.0/15.8 17

2 11	12 24.81	+10 49.6	2.499	3.304	11.4	20.9
2 21	12 20.91	+11 49.2	2.420	3.306	8.9	20.7
3 2	12 15.23	+12 52.6	2.365	3.309	6.2	20.5
3 12	12 8.28	+13 53.8	2.339	3.311	4.3	20.4
3 22	12 0.70	+14 47.2	2.341	3.312	4.6	20.4
4 1	11 53.23	+15 27.9	2.373	3.314	6.9	20.6
4 11	11 46.60	+15 52.5	2.431	3.315	9.5	20.8
4 21	11 41.36	+16 0.1	2.513	3.316	12.0	20.9

314757 2006 SD_{324} 3 20.9 349°.16 3°.2/18.7 18

2 11	12 22.43	+ 4 30.3	1.162	2.005	19.3	19.4
2 21	12 21.08	+ 4 52.5	1.086	1.995	15.2	19.1
3 2	12 16.46	+ 5 28.1	1.029	1.986	10.3	18.8
3 12	12 9.23	+ 6 10.0	0.993	1.979	5.2	18.5
3 22	12 0.56	+ 6 49.2	0.981	1.973	3.8	18.4
4 1	11 51.97	+ 7 16.4	0.992	1.968	8.6	18.6
4 11	11 45.01	+ 7 24.4	1.024	1.966	13.9	18.9
4 21	11 40.74	+ 7 10.5	1.076	1.964	18.6	19.2

172020 2001 UN_{187} 3 20.9 40°.85 2°.7/18.3 18

2 11	12 27.12	+ 6 28.8	2.102	2.904	13.4	19.9
2 21	12 23.01	+ 6 51.9	2.022	2.908	10.4	19.7
3 2	12 16.80	+ 7 20.9	1.966	2.913	7.0	19.5
3 12	12 9.08	+ 7 51.1	1.936	2.918	3.7	19.3
3 22	12 0.61	+ 8 17.2	1.935	2.923	3.1	19.3
4 1	11 52.31	+ 8 34.7	1.962	2.928	6.1	19.5
4 11	11 45.05	+ 8 40.0	2.016	2.934	9.5	19.7
4 21	11 39.46	+ 8 31.7	2.094	2.939	12.6	19.9

364684 2007 TP_{386} 3 20.9 110°.50 4°.0/17.6 18

2 11	12 31.60	+ 8 2.2	1.671	2.481	15.9	21.2
2 21	12 27.00	+ 8 42.9	1.602	2.492	12.4	20.9
3 2	12 19.74	+ 9 30.2	1.554	2.502	8.5	20.7
3 12	12 10.54	+10 17.1	1.533	2.512	4.9	20.5
3 22	12 0.43	+10 56.0	1.538	2.522	4.6	20.5
4 1	11 50.62	+11 20.7	1.571	2.532	7.9	20.8
4 11	11 42.25	+11 27.1	1.629	2.541	11.7	21.0
4 21	11 36.07	+11 14.6	1.710	2.550	15.2	21.2

170996 2005 EL_{4} 3 20.9 335°.37 3°.4/24.2 17

2 11	12 20.72	−11 44.2	1.778	2.541	16.9	19.6
2 21	12 18.65	−11 41.1	1.680	2.532	14.0	19.3
3 2	12 14.25	−11 15.8	1.602	2.523	10.5	19.1
3 12	12 8.02	−10 28.8	1.547	2.514	6.6	18.8
3 22	12 0.74	− 9 23.6	1.517	2.506	3.5	18.6
4 1	11 53.45	− 8 6.8	1.514	2.499	5.0	18.7
4 11	11 47.18	− 6 47.0	1.537	2.492	8.9	18.9
4 21	11 42.75	− 5 32.6	1.585	2.486	12.9	19.1

190026 Iskorosten 3 20.9 240°.70 5°.4/26.5 18

2 11	12 28.30	−18 22.1	2.475	3.160	14.6	21.1
2 21	12 24.04	−18 51.8	2.353	3.143	12.6	20.9
3 2	12 17.68	−19 3.8	2.253	3.126	10.1	20.7
3 12	12 9.63	−18 56.3	2.176	3.108	7.6	20.5
3 22	12 0.54	−18 29.5	2.126	3.089	5.7	20.3
4 1	11 51.28	−17 45.5	2.104	3.070	5.8	20.3
4 11	11 42.76	−16 49.6	2.111	3.050	7.9	20.4
4 21	11 35.75	−15 47.9	2.145	3.029	10.7	20.5

520115 2014 AY_{58} 3 20.9 267°.26 5°.3/14.3 17

2 11	12 24.11	+14 9.9	2.327	3.140	11.9	21.1
2 21	12 20.59	+15 17.4	2.246	3.135	9.4	21.0
3 2	12 15.16	+16 27.1	2.189	3.129	6.9	20.8
3 12	12 8.32	+17 32.2	2.160	3.123	5.4	20.7
3 22	12 0.74	+18 26.3	2.158	3.117	6.0	20.7
4 1	11 53.25	+19 3.9	2.184	3.111	8.2	20.8
4 11	11 46.65	+19 21.8	2.236	3.105	10.9	21.0
4 21	11 41.54	+19 19.7	2.310	3.099	13.4	21.1

503668 2016 GW_{246} 3 20.9 232°.89 1°.3/22.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.58	− 6 19.6	1.984	2.753	15.2	22.1
2 21	12 22.12	− 6 6.3	1.887	2.748	12.2	21.9
3 2	12 16.43	− 5 36.4	1.811	2.743	8.7	21.7
3 12	12 9.02	− 4 52.1	1.761	2.739	4.6	21.4
3 22	12 0.66	− 3 57.7	1.738	2.734	1.3	21.2
4 1	11 52.31	− 2 59.1	1.744	2.728	4.6	21.4
4 11	11 44.95	− 2 3.1	1.778	2.723	8.7	21.6
4 21	11 39.33	− 1 15.7	1.836	2.717	12.4	21.8

489695 2007 VA_{113} 3 20.9 198°.99 3°.0/17.8 17

2 11	12 30.34	+ 6 3.0	2.172	2.964	13.3	22.9
2 21	12 25.59	+ 6 52.2	2.080	2.960	10.4	22.7
3 2	12 18.64	+ 7 49.6	2.011	2.956	7.0	22.5
3 12	12 10.03	+ 8 49.5	1.970	2.950	3.9	22.3
3 22	12 0.54	+ 9 45.5	1.958	2.943	3.5	22.2
4 1	11 51.09	+10 31.4	1.976	2.936	6.6	22.4
4 11	11 42.64	+11 2.6	2.021	2.927	10.1	22.6
4 21	11 35.88	+11 16.9	2.090	2.918	13.3	22.8

281479 2008 SS_{232} 3 20.9 108°.85 2°.5/18.4 18

2 11	12 27.20	+ 5 11.8	2.056	2.856	13.7	20.7
2 21	12 23.13	+ 5 45.4	1.976	2.861	10.6	20.5
3 2	12 16.93	+ 6 26.8	1.920	2.867	7.1	20.3
3 12	12 9.18	+ 7 10.7	1.890	2.873	3.7	20.1
3 22	12 0.65	+ 7 51.4	1.889	2.878	3.0	20.1
4 1	11 52.29	+ 8 23.5	1.916	2.883	6.1	20.3
4 11	11 44.99	+ 8 42.7	1.970	2.889	9.6	20.5
4 21	11 39.40	+ 8 47.1	2.048	2.894	12.8	20.7

103231 1999 YM_{15} 3 20.9 270°.70 2°.6/22.9 18

2 11	12 25.94	− 8 58.5	1.416	2.199	19.6	20.6
2 21	12 23.41	− 8 52.1	1.325	2.192	16.0	20.3
3 2	12 17.88	− 8 20.9	1.252	2.185	11.7	20.0
3 12	12 9.92	− 7 26.0	1.202	2.177	6.7	19.7
3 22	12 0.54	− 6 12.3	1.176	2.169	2.6	19.4
4 1	11 51.11	− 4 48.5	1.176	2.162	5.8	19.6
4 11	11 43.05	− 3 26.0	1.201	2.154	11.0	19.9
4 21	11 37.41	− 2 14.6	1.248	2.147	15.8	20.1

497250 2005 GP_{105} 3 20.9 251°.78 0°.7/20.2 17

2 11	12 26.52	− 1 36.9	1.909	2.695	15.1	22.6
2 21	12 23.06	− 1 1.0	1.804	2.680	12.0	22.3
3 2	12 17.21	− 0 9.3	1.721	2.664	8.2	22.1
3 12	12 9.47	+ 0 54.1	1.665	2.648	3.9	21.8
3 22	12 0.62	+ 2 3.4	1.636	2.631	1.1	21.5
4 1	11 51.68	+ 3 11.0	1.635	2.614	5.6	21.8
4 11	11 43.72	+ 4 9.6	1.662	2.596	10.0	22.0
4 21	11 37.57	+ 4 53.7	1.713	2.578	14.0	22.2

12681 1981 UL_{29} 3 20.9 205°.23 3°.1/24.9 18

2 11	12 24.41	−14 17.1	2.620	3.333	13.2	20.1
2 21	12 20.68	−13 58.3	2.510	3.328	11.0	19.9
3 2	12 15.18	−13 21.4	2.421	3.322	8.4	19.7
3 12	12 8.34	−12 27.2	2.358	3.315	5.5	19.5
3 22	12 0.78	−11 18.5	2.324	3.308	3.2	19.3
4 1	11 53.21	− 9 59.9	2.320	3.300	4.0	19.4
4 11	11 46.38	− 8 37.6	2.345	3.292	6.8	19.5
4 21	11 40.88	− 7 17.9	2.398	3.283	9.7	19.7

163473 2002 RB_{204} 3 20.9 188°.72 0°.9/21.9 18

2 11	12 24.02	− 6 6.6	2.470	3.229	12.8	21.1
2 21	12 20.39	− 5 41.1	2.372	3.228	10.3	20.9
3 2	12 14.98	− 5 1.7	2.297	3.227	7.2	20.7
3 12	12 8.25	− 4 10.6	2.248	3.226	3.8	20.5
3 22	12 0.81	− 3 12.0	2.229	3.224	0.9	20.2
4 1	11 53.42	− 2 10.8	2.239	3.222	3.8	20.4
4 11	11 46.81	− 1 12.8	2.278	3.220	7.3	20.7
4 21	11 41.57	− 0 22.5	2.344	3.217	10.4	20.8

264646 2001 XB_{31} 3 20.9 48°.81 8°.4/28.9 18

2 11	12 26.87	−22 7.4	1.642	2.344	20.3	20.0
2 21	12 23.66	−23 2.1	1.571	2.363	17.7	19.9
3 2	12 17.70	−23 29.0	1.516	2.382	14.5	19.7
3 12	12 9.69	−23 25.1	1.482	2.402	11.4	19.6
3 22	12 0.63	−22 50.5	1.470	2.422	9.0	19.5
4 1	11 51.78	−21 49.7	1.484	2.442	8.5	19.5
4 11	11 44.35	−20 31.7	1.522	2.463	10.2	19.6
4 21	11 39.15	−19 6.8	1.584	2.484	13.0	19.8

426046 2011 UM_{375} 3 20.9 298°.64 1°.7/19.4 16

2 11	12 29.08	+ 4 38.1	2.224	3.014	13.1	20.4
2 21	12 24.70	+ 4 40.8	2.115	2.993	10.3	20.2
3 2	12 18.14	+ 4 49.6	2.028	2.973	7.0	19.9
3 12	12 9.87	+ 5 1.1	1.969	2.952	3.4	19.7
3 22	12 0.60	+ 5 11.3	1.939	2.931	2.0	19.5
4 1	11 51.25	+ 5 16.1	1.937	2.911	5.4	19.7
4 11	11 42.76	+ 5 11.9	1.964	2.891	9.2	19.9
4 21	11 35.89	+ 4 56.8	2.016	2.870	12.6	20.1

498970 2009 BP_{133} 3 20.9 112°.11 3°.3/24.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.88	−11 52.6	2.322	3.054	14.3	21.5
2 21	12 21.99	−12 7.4	2.229	3.059	11.8	21.3
3 2	12 16.14	−12 6.1	2.157	3.064	8.9	21.1
3 12	12 8.83	−11 49.2	2.109	3.070	5.8	20.9
3 22	12 0.75	−11 18.7	2.090	3.074	3.5	20.8
4 1	11 52.72	−10 38.4	2.099	3.079	4.4	20.8
4 11	11 45.58	− 9 53.7	2.137	3.084	7.3	21.0
4 21	11 39.96	− 9 10.0	2.200	3.089	10.3	21.2

199809 2007 CE_{61} 3 20.9 73°.93 1°.2/21.3 18

2 11	12 46.18	+ 1 31.9	1.027	1.834	23.9	19.5
2 21	12 40.35	+ 0 17.5	0.959	1.842	19.2	19.2
3 2	12 29.96	− 0 48.6	0.907	1.851	13.4	18.9
3 12	12 15.88	− 1 47.1	0.877	1.859	6.8	18.6
3 22	11 59.86	− 2 38.6	0.872	1.868	1.3	18.2
4 1	11 44.26	− 3 24.9	0.893	1.877	7.6	18.7
4 11	11 31.26	− 4 9.3	0.937	1.885	14.0	19.0
4 21	11 22.21	− 4 55.1	1.002	1.894	19.3	19.4

467423 2005 UN_{200} 3 20.9 61°.51 3°.2/18.1 18

2 11	12 28.00	+ 5 55.0	1.695	2.507	15.7	21.6
2 21	12 24.13	+ 6 33.7	1.628	2.519	12.1	21.4
3 2	12 17.78	+ 7 20.8	1.583	2.532	8.2	21.2
3 12	12 9.64	+ 8 9.8	1.563	2.545	4.3	21.0
3 22	12 0.66	+ 8 53.5	1.570	2.558	3.7	21.0
4 1	11 51.97	+ 9 25.4	1.604	2.571	7.2	21.2
4 11	11 44.61	+ 9 41.2	1.665	2.584	11.0	21.5
4 21	11 39.29	+ 9 39.2	1.747	2.597	14.4	21.7

316843 2000 EW_{123} 3 20.9 17°.91 0°.5/21.2 18

2 11	12 31.80	− 0 33.9	1.454	2.253	18.4	20.4
2 21	12 27.74	− 1 1.8	1.375	2.256	14.7	20.2
3 2	12 20.63	− 1 17.7	1.316	2.259	10.1	19.9
3 12	12 11.17	− 1 24.0	1.281	2.263	5.0	19.6
3 22	12 0.47	− 1 24.3	1.272	2.268	0.7	19.3
4 1	11 49.94	− 1 23.3	1.289	2.273	5.8	19.7
4 11	11 40.96	− 1 26.1	1.332	2.279	10.8	20.0
4 21	11 34.46	− 1 36.6	1.397	2.285	15.2	20.3

429851 2012 RP_{5} 3 20.9 218°.88 1°.3/22.2 17

2 11	12 26.18	− 5 39.6	2.257	3.019	13.8	21.5
2 21	12 22.30	− 5 36.9	2.159	3.016	11.1	21.3
3 2	12 16.41	− 5 20.8	2.082	3.012	7.8	21.0
3 12	12 8.99	− 4 53.0	2.032	3.009	4.2	20.8
3 22	12 0.75	− 4 17.0	2.010	3.005	1.3	20.6
4 1	11 52.53	− 3 37.1	2.018	3.001	4.1	20.8
4 11	11 45.18	− 2 58.8	2.053	2.997	7.8	21.0
4 21	11 39.37	− 2 26.5	2.114	2.993	11.1	21.2

247298 2001 TS_{24} 3 20.9 199°.18 0°.3/20.6 18

2 11	12 28.78	+ 0 19.8	2.514	3.286	12.3	20.8
2 21	12 24.04	+ 0 19.8	2.417	3.284	9.7	20.6
3 2	12 17.43	+ 0 27.8	2.344	3.282	6.6	20.4
3 12	12 9.43	+ 0 41.3	2.298	3.280	3.1	20.2
3 22	12 0.70	+ 0 57.2	2.282	3.278	0.6	20.0
4 1	11 52.02	+ 1 11.8	2.296	3.275	4.2	20.3
4 11	11 44.17	+ 1 21.7	2.339	3.272	7.6	20.5
4 21	11 37.75	+ 1 24.4	2.408	3.269	10.6	20.7

416301 2003 RL_{26} 3 20.9 272°.37 7°.8/28.8 17

2 11	12 25.36	−24 36.3	1.896	2.571	18.8	21.5
2 21	12 22.65	−24 42.7	1.768	2.543	16.6	21.3
3 2	12 17.29	−24 18.9	1.656	2.514	14.0	21.0
3 12	12 9.69	−23 20.2	1.565	2.484	11.0	20.7
3 22	12 0.63	−21 45.2	1.498	2.453	8.4	20.5
4 1	11 51.24	−19 37.4	1.457	2.422	7.9	20.4
4 11	11 42.80	−17 6.8	1.444	2.390	10.2	20.4
4 21	11 36.34	−14 26.9	1.457	2.358	13.8	20.6

430095 2013 ST_{65} 3 20.9 87°.70 3°.2/22.9 17

2 11	12 36.71	− 6 33.7	1.852	2.602	16.8	20.7
2 21	12 31.01	− 7 30.5	1.762	2.608	13.7	20.5
3 2	12 22.59	− 8 15.1	1.694	2.614	10.0	20.3
3 12	12 12.05	− 8 46.7	1.651	2.620	6.1	20.1
3 22	12 0.37	− 9 5.9	1.636	2.625	3.2	19.9
4 1	11 48.75	− 9 15.0	1.651	2.631	5.3	20.0
4 11	11 38.42	− 9 18.2	1.693	2.637	9.2	20.3
4 21	11 30.26	− 9 20.1	1.761	2.642	12.9	20.5

303799 2005 SO_{39} 3 20.9 295°.02 2°.3/18.8 17

2 11	12 29.00	+ 6 26.3	2.264	3.057	12.8	20.1
2 21	12 24.59	+ 6 36.0	2.156	3.037	10.1	19.8
3 2	12 18.04	+ 6 50.9	2.072	3.017	6.9	19.6
3 12	12 9.82	+ 7 7.2	2.015	2.997	3.6	19.3
3 22	12 0.64	+ 7 20.3	1.986	2.976	2.7	19.2
4 1	11 51.40	+ 7 26.1	1.988	2.956	5.8	19.4
4 11	11 43.02	+ 7 21.2	2.016	2.936	9.4	19.6
4 21	11 36.23	+ 7 3.9	2.070	2.916	12.7	19.8

241274 2007 TW_{424} 3 20.9 67°.30 2°.7/18.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 27.01	+ 6 26.3	2.160	2.960	13.1	20.6
2 21	12 22.90	+ 6 54.0	2.080	2.965	10.2	20.4
3 2	12 16.75	+ 7 27.7	2.022	2.969	6.9	20.2
3 12	12 9.11	+ 8 2.7	1.992	2.973	3.7	20.0
3 22	12 0.75	+ 8 33.7	1.990	2.978	3.1	20.0
4 1	11 52.54	+ 8 55.9	2.017	2.982	6.0	20.2
4 11	11 45.32	+ 9 5.8	2.071	2.987	9.4	20.4
4 21	11 39.74	+ 9 1.7	2.149	2.992	12.4	20.6

157717 2006 AV_{83} 3 20.9 85°.50 3°.7/17.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.58	+ 6 43.0	1.888	2.700	14.3	20.3
2 21	12 22.09	+ 7 40.9	1.813	2.705	11.1	20.1
3 2	12 16.35	+ 8 47.0	1.761	2.710	7.5	19.9
3 12	12 8.97	+ 9 54.7	1.736	2.716	4.3	19.8
3 22	12 0.77	+10 56.4	1.738	2.721	4.2	19.8
4 1	11 52.74	+11 45.1	1.768	2.727	7.3	19.9
4 11	11 45.83	+12 16.2	1.823	2.732	10.9	20.2
4 21	11 40.73	+12 27.8	1.902	2.737	14.0	20.4

205603 2001 UM_{31} 3 20.9 201°.20 3°.1/17.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.26	+ 4 18.3	1.915	2.713	14.6	21.0
2 21	12 25.08	+ 5 21.4	1.824	2.709	11.4	20.8
3 2	12 18.50	+ 6 36.4	1.757	2.704	7.7	20.5
3 12	12 10.06	+ 7 56.7	1.716	2.698	4.1	20.3
3 22	12 0.62	+ 9 14.2	1.704	2.691	3.7	20.3
4 1	11 51.22	+10 21.0	1.722	2.684	7.2	20.4
4 11	11 42.92	+11 10.8	1.765	2.676	11.0	20.7
4 21	11 36.50	+11 40.4	1.832	2.667	14.6	20.9

97267 1999 XC_{127} 3 20.9 121°.74 1°.6/22.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.37	− 6 58.4	2.201	2.958	14.2	20.0
2 21	12 22.41	− 6 51.8	2.113	2.967	11.4	19.8
3 2	12 16.43	− 6 30.3	2.048	2.975	8.1	19.6
3 12	12 8.97	− 5 56.0	2.008	2.983	4.5	19.4
3 22	12 0.77	− 5 12.5	1.997	2.991	1.6	19.2
4 1	11 52.67	− 4 24.8	2.015	2.999	4.1	19.4
4 11	11 45.53	− 3 38.6	2.061	3.006	7.7	19.6
4 21	11 39.98	− 2 58.6	2.133	3.013	11.0	19.8

85122 1978 UZ_{5} 3 20.9 207°.93 3°.1/25.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.97	−14 57.5	2.757	3.469	12.7	20.3
2 21	12 18.69	−14 38.2	2.649	3.465	10.6	20.1
3 2	12 13.79	−14 1.4	2.563	3.461	8.1	19.9
3 12	12 7.68	−13 8.0	2.502	3.457	5.4	19.7
3 22	12 0.93	−12 0.6	2.470	3.452	3.3	19.6
4 1	11 54.20	−10 43.6	2.468	3.447	3.8	19.6
4 11	11 48.15	− 9 22.8	2.495	3.442	6.4	19.8
4 21	11 43.33	− 8 4.0	2.549	3.437	9.1	19.9

287125 2002 RT_{183} 3 20.9 283°.84 8°.0/26.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.72	−19 0.4	1.823	2.528	18.5	21.0
2 21	12 26.28	−20 4.4	1.699	2.499	16.2	20.7
3 2	12 19.96	−20 48.8	1.593	2.468	13.4	20.5
3 12	12 11.10	−21 9.1	1.508	2.438	10.5	20.2
3 22	12 0.47	−21 2.3	1.448	2.407	8.3	20.0
4 1	11 49.28	−20 28.7	1.414	2.375	8.5	19.9
4 11	11 38.94	−19 33.9	1.405	2.344	11.1	20.0
4 21	11 30.69	−18 26.6	1.419	2.312	14.6	20.1

303699 2005 OX_{22} 3 20.9 272°.61 0°.1/21.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.70	− 2 50.7	2.422	3.195	12.6	21.4
2 21	12 20.29	− 2 30.4	2.313	3.181	10.0	21.2
3 2	12 15.02	− 1 58.1	2.228	3.166	6.9	21.0
3 12	12 8.34	− 1 16.2	2.169	3.150	3.4	20.7
3 22	12 0.85	− 0 28.8	2.139	3.135	0.4	20.4
4 1	11 53.32	+ 0 19.2	2.138	3.120	4.2	20.7
4 11	11 46.53	+ 1 2.7	2.166	3.104	7.8	20.9
4 21	11 41.11	+ 1 37.5	2.219	3.089	11.0	21.1

431976 2008 UJ_{157} 3 20.9 150°.43 0°.3/21.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.95	− 3 49.5	2.279	3.050	13.4	21.9
2 21	12 21.24	− 3 25.3	2.189	3.054	10.6	21.7
3 2	12 15.62	− 2 47.9	2.121	3.058	7.3	21.5
3 12	12 8.59	− 2 0.3	2.081	3.061	3.6	21.3
3 22	12 0.84	− 1 6.9	2.068	3.065	0.4	21.0
4 1	11 53.17	− 0 13.1	2.086	3.068	4.2	21.3
4 11	11 46.38	+ 0 35.6	2.131	3.071	7.8	21.5
4 21	11 41.10	+ 1 14.9	2.202	3.073	11.1	21.7

210070 2006 QK_{11} 3 20.9 156°.52 0°.9/19.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.78	+ 0 38.7	2.543	3.324	11.9	21.7
2 21	12 20.87	+ 1 7.7	2.454	3.328	9.3	21.5
3 2	12 15.25	+ 1 46.0	2.389	3.331	6.2	21.3
3 12	12 8.37	+ 2 29.9	2.351	3.335	2.9	21.1
3 22	12 0.87	+ 3 15.2	2.343	3.338	1.2	20.9
4 1	11 53.45	+ 3 57.3	2.365	3.341	4.4	21.2
4 11	11 46.82	+ 4 31.8	2.415	3.344	7.6	21.4
4 21	11 41.54	+ 4 55.9	2.491	3.346	10.5	21.6

33116 1998 BO_{12} 3 20.9 296°.22 5°.5/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 24.78	+ 7 49.3	1.448	2.278	16.9	17.2
2 21	12 22.50	+ 9 5.3	1.357	2.259	13.3	16.9
3 2	12 17.29	+10 34.8	1.288	2.240	9.3	16.6
3 12	12 9.70	+12 8.4	1.243	2.222	5.9	16.4
3 22	12 0.68	+13 34.6	1.223	2.203	6.4	16.3
4 1	11 51.57	+14 42.1	1.229	2.184	10.3	16.5
4 11	11 43.75	+15 22.9	1.258	2.166	14.7	16.7
4 21	11 38.27	+15 34.2	1.306	2.148	18.9	16.9

312074 2007 TW_{34} 3 20.9 65°.72 1°.5/19.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.88	+ 0 33.8	1.454	2.261	18.0	21.0
2 21	12 25.20	+ 1 4.2	1.390	2.278	14.0	20.8
3 2	12 18.70	+ 1 49.3	1.347	2.295	9.4	20.6
3 12	12 10.15	+ 2 43.2	1.328	2.313	4.4	20.3
3 22	12 0.66	+ 3 38.2	1.335	2.330	1.9	20.2
4 1	11 51.54	+ 4 26.2	1.369	2.348	6.5	20.5
4 11	11 43.97	+ 5 0.5	1.429	2.365	11.1	20.8
4 21	11 38.73	+ 5 17.6	1.510	2.383	15.1	21.1

52095 2191 $P–L$ 3 20.9 81°.26 0°.3/21.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.02	− 1 44.3	2.197	2.971	13.7	19.6
2 21	12 23.70	− 1 46.9	2.108	2.976	10.9	19.4
3 2	12 17.32	− 1 39.1	2.043	2.980	7.5	19.2
3 12	12 9.43	− 1 23.2	2.003	2.985	3.7	18.9
3 22	12 0.76	− 1 2.8	1.993	2.989	0.4	18.7
4 1	11 52.18	− 0 41.9	2.012	2.994	4.3	19.0
4 11	11 44.58	− 0 24.9	2.058	2.998	8.0	19.2
4 21	11 38.60	− 0 15.1	2.131	3.003	11.3	19.4

300225 2006 XN_{44} 3 20.9 152°.88 4°.8/27.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.98	−19 1.2	2.744	3.427	13.3	21.0
2 21	12 20.30	−19 19.5	2.643	3.430	11.4	20.9
3 2	12 14.91	−19 20.5	2.563	3.433	9.2	20.7
3 12	12 8.25	−19 3.7	2.506	3.436	6.9	20.6
3 22	12 0.91	−18 30.2	2.477	3.439	5.1	20.5
4 1	11 53.58	−17 42.7	2.476	3.441	5.1	20.5
4 11	11 46.99	−16 46.1	2.503	3.444	6.8	20.6
4 21	11 41.70	−15 45.8	2.557	3.446	9.1	20.7

90884 1996 XC_{36} 3 20.9 157°.98 2°.3/18.4 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.37	+ 3 6.1	2.135	2.932	13.4	20.2
2 21	12 21.69	+ 3 58.6	2.052	2.935	10.4	20.0
3 2	12 15.99	+ 5 1.3	1.992	2.939	6.9	19.8
3 12	12 8.80	+ 6 8.9	1.959	2.942	3.5	19.5
3 22	12 0.85	+ 7 15.1	1.954	2.945	2.7	19.5
4 1	11 53.01	+ 8 13.2	1.979	2.947	5.9	19.7
4 11	11 46.14	+ 8 58.2	2.031	2.949	9.4	19.9
4 21	11 40.86	+ 9 27.1	2.108	2.951	12.6	20.1

272990 2006 DM_{39} 3 20.9 277°.07 0°.1/21.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.85	− 2 2.3	2.106	2.884	14.1	21.2
2 21	12 23.13	− 1 53.8	1.995	2.865	11.3	21.0
3 2	12 17.20	− 1 33.1	1.907	2.846	7.8	20.7
3 12	12 9.50	− 1 2.5	1.844	2.826	3.8	20.4
3 22	12 0.75	− 0 26.1	1.810	2.807	0.4	20.1
4 1	11 51.89	+ 0 11.1	1.805	2.787	4.8	20.4
4 11	11 43.89	+ 0 43.5	1.827	2.767	8.9	20.6
4 21	11 37.53	+ 1 6.6	1.874	2.746	12.6	20.8

195584 2002 JG_{119} 3 20.9 7°.24 0°.4/21.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 18.04	− 8 21.5	1.564	2.356	17.6	19.4
2 21	12 16.74	− 7 5.2	1.481	2.357	14.1	19.1
3 2	12 13.04	− 5 21.0	1.418	2.359	9.8	18.9
3 12	12 7.50	− 3 14.4	1.379	2.361	4.9	18.6
3 22	12 1.02	− 0 55.0	1.367	2.364	0.5	18.2
4 1	11 54.64	+ 1 24.3	1.384	2.368	5.6	18.6
4 11	11 49.44	+ 3 30.9	1.427	2.372	10.4	18.9
4 21	11 46.16	+ 5 15.8	1.493	2.377	14.6	19.2

17395 1981 EA_{44} 3 20.9 201°.91 0°.1/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.36	− 4 48.5	2.369	3.135	13.1	19.5
2 21	12 20.79	− 3 58.6	2.268	3.131	10.4	19.3
3 2	12 15.35	− 2 53.1	2.190	3.126	7.1	19.1
3 12	12 8.50	− 1 35.6	2.140	3.121	3.5	18.9
3 22	12 0.90	− 0 11.3	2.119	3.116	0.4	18.6
4 1	11 53.32	+ 1 13.1	2.129	3.110	4.3	18.9
4 11	11 46.54	+ 2 31.0	2.168	3.103	8.0	19.1
4 21	11 41.19	+ 3 37.1	2.233	3.096	11.2	19.3

71970 2000 WM_{123} 3 20.9 220°.64 0°.5/20.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.84	− 1 57.6	1.801	2.588	15.8	20.2
2 21	12 24.17	− 1 27.5	1.707	2.583	12.6	20.0
3 2	12 18.02	− 0 41.6	1.634	2.576	8.6	19.7
3 12	12 9.91	+ 0 16.1	1.586	2.570	4.1	19.4
3 22	12 0.73	+ 1 19.7	1.566	2.562	0.9	19.2
4 1	11 51.55	+ 2 21.6	1.575	2.555	5.6	19.5
4 11	11 43.48	+ 3 14.5	1.610	2.547	10.1	19.7
4 21	11 37.36	+ 3 53.2	1.669	2.538	14.1	19.9

149817 2005 MP_{41} 3 20.9 95°.58 0°.1/20.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 26.96	− 2 52.8	1.758	2.546	16.2	20.5
2 21	12 23.41	− 2 32.8	1.676	2.551	12.8	20.3
3 2	12 17.41	− 1 57.2	1.615	2.556	8.8	20.1
3 12	12 9.57	− 1 9.7	1.579	2.561	4.3	19.8
3 22	12 0.79	− 0 15.9	1.570	2.566	0.5	19.5
4 1	11 52.14	+ 0 37.2	1.589	2.572	5.2	19.9
4 11	11 44.69	+ 1 22.9	1.635	2.577	9.6	20.2
4 21	11 39.20	+ 1 56.2	1.704	2.582	13.4	20.4

307660 2003 SB_{220} 3 20.9 73°.23 2°.2/18.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 31.25	+ 4 7.9	2.433	3.212	12.4	21.0
2 21	12 25.55	+ 5 1.2	2.388	3.262	9.5	20.9
3 2	12 18.15	+ 6 0.7	2.368	3.311	6.3	20.8
3 12	12 9.65	+ 7 1.2	2.377	3.358	3.2	20.6
3 22	12 0.80	+ 7 57.4	2.417	3.405	2.5	20.7
4 1	11 52.36	+ 8 44.4	2.487	3.451	5.2	20.9
4 11	11 45.01	+ 9 19.1	2.586	3.495	8.0	21.1
4 21	11 39.21	+ 9 40.0	2.711	3.539	10.6	21.4

498622 2008 RH_{116} 3 20.9 218°.17 2°.6/17.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.32	+ 5 10.7	2.664	3.454	11.2	22.2
2 21	12 21.34	+ 6 12.1	2.563	3.443	8.7	22.0
3 2	12 15.63	+ 7 21.8	2.487	3.432	5.9	21.8
3 12	12 8.62	+ 8 34.9	2.440	3.420	3.2	21.6
3 22	12 0.90	+ 9 45.7	2.423	3.407	3.0	21.6
4 1	11 53.17	+10 48.6	2.436	3.394	5.7	21.7
4 11	11 46.15	+11 38.9	2.478	3.380	8.6	21.9
4 21	11 40.41	+12 14.1	2.545	3.365	11.4	22.1

27919 1996 VP_{4} 3 20.9 117°.80 0°.6/21.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.33	− 4 52.8	2.565	3.326	12.3	19.7
2 21	12 20.49	− 4 29.1	2.480	3.339	9.8	19.5
3 2	12 14.97	− 3 53.1	2.418	3.351	6.8	19.4
3 12	12 8.25	− 3 7.6	2.384	3.363	3.4	19.2
3 22	12 0.96	− 2 16.4	2.378	3.374	0.6	18.9
4 1	11 53.78	− 1 24.3	2.403	3.386	3.7	19.2
4 11	11 47.40	− 0 36.1	2.457	3.397	6.9	19.4
4 21	11 42.35	+ 0 4.5	2.537	3.408	9.8	19.6

341326 2007 TD_{23} 3 20.9 126°.16 0°.5/21.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.62	− 3 28.9	2.534	3.296	12.4	21.7
2 21	12 22.28	− 3 16.8	2.448	3.308	9.8	21.5
3 2	12 16.19	− 2 53.8	2.386	3.320	6.8	21.3
3 12	12 8.85	− 2 22.4	2.351	3.331	3.4	21.1
3 22	12 0.89	− 1 46.0	2.346	3.342	0.5	20.9
4 1	11 53.05	− 1 8.9	2.370	3.352	3.8	21.2
4 11	11 46.06	− 0 35.4	2.424	3.362	7.1	21.4
4 21	11 40.45	− 0 8.9	2.503	3.372	10.0	21.6

210238 2007 RX_{162} 3 20.9 49°.20 0°.8/21.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.42	− 4 58.6	1.341	2.142	19.6	20.4
2 21	12 23.62	− 4 42.3	1.273	2.154	15.6	20.1
3 2	12 17.85	− 4 4.6	1.224	2.166	10.8	19.9
3 12	12 9.85	− 3 9.4	1.198	2.179	5.5	19.6
3 22	12 0.76	− 2 4.0	1.196	2.192	0.9	19.3
4 1	11 51.96	− 0 57.6	1.221	2.206	5.9	19.7
4 11	11 44.73	+ 0 0.3	1.270	2.220	10.9	20.0
4 21	11 39.94	+ 0 43.2	1.341	2.234	15.3	20.3

456972 2008 AE_{118} 3 20.9 353°.14 3°.2/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 22.08	+ 2 12.2	1.436	2.261	17.3	21.1
2 21	12 20.16	+ 3 23.5	1.358	2.258	13.5	20.8
3 2	12 15.51	+ 4 52.3	1.302	2.256	9.0	20.5
3 12	12 8.76	+ 6 30.5	1.270	2.254	4.6	20.3
3 22	12 0.89	+ 8 7.4	1.263	2.253	3.9	20.2
4 1	11 53.14	+ 9 31.8	1.283	2.252	8.1	20.5
4 11	11 46.72	+10 34.8	1.326	2.252	12.7	20.7
4 21	11 42.49	+11 12.1	1.391	2.253	16.8	21.0

39129 2000 WZ_{53} 3 20.9 235°.96 0°.0/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.58	− 2 42.3	2.032	2.813	14.5	20.1
2 21	12 22.08	− 2 18.9	1.937	2.809	11.5	19.9
3 2	12 16.41	− 1 41.4	1.864	2.804	7.9	19.6
3 12	12 9.08	− 0 53.0	1.817	2.799	3.8	19.4
3 22	12 0.85	+ 0 1.2	1.798	2.794	0.5	19.1
4 1	11 52.65	+ 0 55.2	1.807	2.789	4.8	19.4
4 11	11 45.42	+ 1 42.6	1.844	2.784	8.9	19.7
4 21	11 39.86	+ 2 19.0	1.906	2.778	12.5	19.9

25387 1999 UN_{3} 3 20.9 146°.37 2°.0/23.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.23	− 9 19.2	1.967	2.721	15.8	19.5
2 21	12 23.38	− 8 59.8	1.879	2.729	12.8	19.3
3 2	12 17.27	− 8 21.0	1.813	2.737	9.2	19.1
3 12	12 9.48	− 7 25.1	1.771	2.744	5.3	18.9
3 22	12 0.82	− 6 16.6	1.757	2.750	2.1	18.7
4 1	11 52.28	− 5 2.1	1.772	2.756	4.5	18.8
4 11	11 44.82	− 3 49.3	1.815	2.762	8.4	19.1
4 21	11 39.15	− 2 44.9	1.883	2.767	12.0	19.3

102450 1999 TD_{217} 3 20.9 119°.40 1°.3/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 29.58	+ 0 30.2	1.881	2.669	15.2	20.4
2 21	12 25.15	+ 1 8.3	1.807	2.685	11.9	20.2
3 2	12 18.40	+ 1 58.8	1.756	2.700	7.9	20.0
3 12	12 9.98	+ 2 56.7	1.731	2.715	3.7	19.8
3 22	12 0.77	+ 3 55.5	1.735	2.729	1.7	19.7
4 1	11 51.80	+ 4 48.4	1.767	2.743	5.6	20.0
4 11	11 44.05	+ 5 29.7	1.827	2.756	9.6	20.2
4 21	11 38.19	+ 5 56.1	1.911	2.768	13.1	20.5

203322 2001 TL_{110} 3 20.9 181°.93 3°.8/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.87	−13 9.7	1.864	2.601	17.2	21.3
2 21	12 24.95	−13 9.2	1.769	2.602	14.3	21.1
3 2	12 18.53	−12 46.5	1.693	2.602	10.8	20.9
3 12	12 10.17	−12 2.0	1.641	2.602	6.9	20.7
3 22	12 0.74	−10 58.5	1.615	2.602	4.0	20.5
4 1	11 51.32	− 9 42.2	1.618	2.600	5.2	20.6
4 11	11 43.05	− 8 21.7	1.649	2.598	8.9	20.8
4 21	11 36.73	− 7 5.4	1.704	2.595	12.7	21.0

502369 2015 BG_{240} 3 20.9 132°.03 4°.4/15.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.12	+ 8 55.9	2.112	2.922	13.0	21.6
2 21	12 21.51	+10 17.9	2.040	2.930	10.1	21.4
3 2	12 15.87	+11 46.5	1.992	2.938	7.0	21.3
3 12	12 8.76	+13 14.2	1.972	2.946	4.7	21.1
3 22	12 0.93	+14 33.2	1.980	2.953	5.1	21.2
4 1	11 53.26	+15 36.8	2.017	2.961	7.7	21.3
4 11	11 46.59	+16 20.5	2.080	2.968	10.8	21.5
4 21	11 41.55	+16 43.0	2.166	2.974	13.5	21.7

283529 2001 TV_{173} 3 20.9 173°.49 0°.2/20.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.03	− 2 7.0	2.659	3.429	11.7	21.7
2 21	12 20.26	− 1 38.5	2.565	3.431	9.2	21.5
3 2	12 14.84	− 0 59.3	2.494	3.432	6.3	21.3
3 12	12 8.23	− 0 12.5	2.452	3.434	3.0	21.1
3 22	12 0.99	+ 0 38.0	2.438	3.435	0.5	20.9
4 1	11 53.82	+ 1 27.5	2.456	3.435	3.9	21.2
4 11	11 47.38	+ 2 11.5	2.501	3.436	7.1	21.4
4 21	11 42.20	+ 2 46.6	2.573	3.436	10.0	21.6

431842 2008 SO_{51} 3 20.9 122°.06 1°.4/22.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.27	− 7 9.1	2.207	2.966	14.2	21.9
2 21	12 21.57	− 6 50.9	2.119	2.974	11.4	21.7
3 2	12 15.89	− 6 17.2	2.054	2.983	8.0	21.5
3 12	12 8.78	− 5 30.2	2.015	2.991	4.4	21.3
3 22	12 0.93	− 4 34.2	2.004	2.999	1.4	21.1
4 1	11 53.20	− 3 34.7	2.023	3.007	4.0	21.3
4 11	11 46.40	− 2 37.8	2.070	3.015	7.7	21.5
4 21	11 41.16	− 1 48.5	2.142	3.022	11.0	21.7

16046 Gregnorman 3 20.9 0°.52 4°.9/26.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 20.86	−17 17.2	1.991	2.716	16.6	17.7
2 21	12 18.54	−17 20.2	1.896	2.715	14.0	17.5
3 2	12 14.09	−16 59.7	1.820	2.714	11.0	17.3
3 12	12 8.00	−16 15.5	1.767	2.714	7.8	17.1
3 22	12 1.02	−15 9.8	1.739	2.715	5.3	16.9
4 1	11 54.08	−13 48.0	1.738	2.715	5.5	16.9
4 11	11 48.11	−12 18.4	1.764	2.717	8.2	17.1
4 21	11 43.82	−10 49.4	1.816	2.718	11.4	17.3

82062 2000 WY_{66} 3 20.9 217°.54 19°.3/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 40.91	+41 8.0	1.311	2.101	20.5	19.1
2 21	12 36.52	+43 57.4	1.277	2.096	19.5	19.0
3 2	12 27.47	+46 20.9	1.262	2.090	19.3	19.0
3 12	12 14.74	+48 0.1	1.265	2.084	20.0	19.0
3 22	12 0.22	+48 42.6	1.285	2.077	21.3	19.1
4 1	11 46.36	+48 24.5	1.321	2.069	23.1	19.2
4 11	11 35.30	+47 11.5	1.369	2.061	24.9	19.3
4 21	11 28.20	+45 14.3	1.428	2.052	26.6	19.4

422044 2014 QY_{357} 3 20.9 290°.54 0°.2/20.7 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.58	− 3 24.2	1.461	2.264	18.1	21.7
2 21	12 22.38	− 2 53.1	1.361	2.245	14.5	21.4
3 2	12 17.28	− 2 0.3	1.281	2.226	10.1	21.1
3 12	12 9.78	− 0 49.4	1.224	2.207	4.9	20.8
3 22	12 0.80	+ 0 32.5	1.192	2.189	0.8	20.4
4 1	11 51.64	+ 1 55.4	1.187	2.170	6.5	20.7
4 11	11 43.69	+ 3 8.6	1.206	2.151	11.9	21.0
4 21	11 38.03	+ 4 4.1	1.247	2.132	16.8	21.2

256355 2006 XW_{55} 3 20.9 122°.67 2°.4/18.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.32	+ 1 54.5	2.047	2.841	14.0	20.1
2 21	12 22.44	+ 3 8.6	1.974	2.857	10.8	19.9
3 2	12 16.49	+ 4 34.7	1.925	2.872	7.2	19.7
3 12	12 9.06	+ 6 6.5	1.903	2.886	3.5	19.5
3 22	12 0.92	+ 7 36.1	1.911	2.900	2.8	19.5
4 1	11 52.99	+ 8 55.9	1.948	2.914	6.1	19.7
4 11	11 46.11	+10 0.0	2.012	2.927	9.7	20.0
4 21	11 40.90	+10 45.2	2.101	2.939	12.8	20.2

7893 1994 XY 3 20.9 171°.06 4°.5/16.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 30.08	+ 8 6.2	1.768	2.576	15.2	18.7
2 21	12 25.86	+ 9 12.2	1.690	2.580	11.9	18.5
3 2	12 19.09	+10 26.5	1.636	2.583	8.2	18.3
3 12	12 10.41	+11 41.2	1.607	2.585	5.0	18.1
3 22	12 0.75	+12 47.6	1.607	2.586	5.1	18.1
4 1	11 51.26	+13 38.0	1.634	2.587	8.4	18.3
4 11	11 43.04	+14 7.4	1.687	2.588	12.1	18.5
4 21	11 36.87	+14 14.5	1.761	2.587	15.4	18.7

399411 2001 TV_{257} 3 20.9 248°.80 2°.0/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.79	+ 0 40.1	1.692	2.492	16.2	22.1
2 21	12 24.45	+ 1 32.6	1.591	2.476	12.8	21.8
3 2	12 18.43	+ 2 42.2	1.512	2.459	8.7	21.5
3 12	12 10.24	+ 4 3.2	1.458	2.442	4.2	21.2
3 22	12 0.76	+ 5 27.8	1.432	2.425	2.5	21.1
4 1	11 51.15	+ 6 46.3	1.433	2.406	7.0	21.3
4 11	11 42.66	+ 7 50.1	1.460	2.387	11.7	21.5
4 21	11 36.24	+ 8 33.7	1.510	2.368	15.9	21.7

292758 2006 UH_{186} 3 20.9 215°.41 3°.1/24.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.98	−13 23.6	2.753	3.469	12.6	21.4
2 21	12 20.30	−13 23.6	2.644	3.464	10.5	21.3
3 2	12 14.95	−13 8.1	2.557	3.457	8.0	21.1
3 12	12 8.33	−12 37.8	2.495	3.451	5.3	20.9
3 22	12 1.01	−11 54.6	2.462	3.444	3.3	20.8
4 1	11 53.68	−11 1.9	2.458	3.437	3.9	20.8
4 11	11 47.03	−10 4.9	2.483	3.429	6.5	20.9
4 21	11 41.62	− 9 8.4	2.535	3.422	9.2	21.1

463597 2013 SM_{40} 3 20.9 264°.13 5°.2/26.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.92	−17 45.0	2.054	2.766	16.5	21.3
2 21	12 21.88	−17 50.6	1.936	2.746	14.1	21.0
3 2	12 16.52	−17 32.9	1.837	2.727	11.2	20.8
3 12	12 9.28	−16 50.5	1.761	2.706	8.1	20.6
3 22	12 0.89	−15 44.4	1.711	2.686	5.6	20.4
4 1	11 52.32	−14 19.1	1.689	2.665	5.8	20.3
4 11	11 44.62	−12 42.6	1.694	2.643	8.7	20.4
4 21	11 38.65	−11 4.2	1.725	2.621	12.2	20.6

29173 1990 QW_4 3 20.9 87°.96 5°.0/16.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.44	+ 7 9.4	1.471	2.293	17.1	17.7
2 21	12 24.85	+ 8 35.2	1.413	2.310	13.2	17.5
3 2	12 18.48	+10 11.1	1.377	2.327	9.0	17.3
3 12	12 10.10	+11 46.8	1.366	2.344	5.6	17.2
3 22	12 0.82	+13 11.4	1.381	2.361	5.8	17.2
4 1	11 51.91	+14 15.6	1.423	2.377	9.3	17.5
4 11	11 44.54	+14 54.1	1.489	2.394	13.1	17.7
4 21	11 39.47	+15 6.1	1.576	2.409	16.6	18.0

437274 2012 XE_{148} 3 20.9 143°.52 4°.8/14.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.95	+13 38.8	2.549	3.358	11.1	21.3
2 21	12 20.28	+14 48.7	2.476	3.362	8.7	21.1
3 2	12 14.89	+16 0.5	2.428	3.367	6.4	20.9
3 12	12 8.26	+17 7.9	2.408	3.371	4.9	20.9
3 22	12 1.04	+18 5.1	2.416	3.375	5.4	20.9
4 1	11 53.93	+18 47.3	2.453	3.379	7.5	21.0
4 11	11 47.65	+19 11.5	2.516	3.382	9.9	21.2
4 21	11 42.72	+19 17.4	2.602	3.386	12.2	21.4

485865 2012 FL_{10} 3 20.9 109°.55 5°.5/23.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 46.73	− 7 32.7	1.224	1.988	23.1	21.3
2 21	12 40.27	− 9 6.1	1.152	2.003	19.1	21.1
3 2	12 29.68	−10 23.3	1.097	2.017	14.2	20.8
3 12	12 15.79	−11 20.6	1.065	2.031	9.0	20.6
3 22	12 0.12	−11 55.9	1.058	2.045	5.5	20.4
4 1	11 44.74	−12 10.9	1.079	2.058	7.7	20.6
4 11	11 31.63	−12 12.4	1.125	2.070	12.5	20.9
4 21	11 22.03	−12 8.6	1.193	2.082	17.1	21.2

496040 2008 UM_{345} 3 20.9 186°.51 5°.3/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.92	−23 1.8	3.117	3.756	12.6	23.2
2 21	12 22.45	−23 17.6	3.005	3.755	11.0	23.0
3 2	12 16.34	−23 16.3	2.913	3.754	9.1	22.9
3 12	12 8.98	−22 56.6	2.846	3.752	7.1	22.8
3 22	12 0.95	−22 19.0	2.806	3.750	5.6	22.7
4 1	11 52.90	−21 26.0	2.795	3.746	5.4	22.6
4 11	11 45.53	−20 21.7	2.813	3.742	6.6	22.7
4 21	11 39.37	−19 11.7	2.859	3.737	8.6	22.8

500275 2012 MS_8 3 20.9 350°.42 0°.7/20.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 19.89	− 4 42.3	1.557	2.360	17.2	20.3
2 21	12 18.26	− 3 33.1	1.472	2.357	13.6	20.1
3 2	12 14.15	− 2 0.0	1.407	2.354	9.3	19.8
3 12	12 8.11	− 0 8.6	1.367	2.351	4.4	19.5
3 22	12 1.05	+ 1 51.4	1.353	2.349	1.2	19.3
4 1	11 54.05	+ 3 48.4	1.367	2.348	6.2	19.6
4 11	11 48.23	+ 5 31.0	1.407	2.347	11.0	19.9
4 21	11 44.40	+ 6 51.9	1.469	2.347	15.2	20.1

440202 2004 HN_{63} 3 20.9 46°.92 16°.5/ 6.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.99	−34 51.5	1.131	1.804	29.3	20.5
2 21	12 23.26	−36 30.6	1.064	1.811	27.0	20.3
3 2	12 18.59	−37 25.7	1.007	1.818	24.3	20.1
3 12	12 10.62	−37 25.9	0.961	1.826	21.3	20.0
3 22	12 0.73	−36 24.1	0.931	1.834	18.5	19.8
4 1	11 50.91	−34 21.4	0.919	1.843	16.7	19.7
4 11	11 43.21	−31 31.1	0.925	1.852	16.7	19.8
4 21	11 38.93	−28 14.3	0.952	1.862	18.4	19.9

46727 Hidekimatsuyama 3 20.9 207°.44 0°.3/21.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 24.98	− 3 34.9	2.437	3.204	12.7	18.7
2 21	12 21.22	− 3 14.8	2.338	3.201	10.1	18.5
3 2	12 15.64	− 2 42.5	2.262	3.198	7.0	18.3
3 12	12 8.68	− 2 0.6	2.213	3.194	3.5	18.1
3 22	12 0.99	− 1 13.1	2.194	3.190	0.4	17.8
4 1	11 53.33	− 0 24.7	2.203	3.185	4.0	18.1
4 11	11 46.46	+ 0 19.4	2.242	3.181	7.5	18.3
4 21	11 40.98	+ 0 55.2	2.306	3.176	10.7	18.5

296894 2010 BP_{39} 3 20.9 292°.68 3°.9/16.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.67	+ 6 43.7	2.101	2.914	13.0	20.6
2 21	12 19.03	+ 8 4.4	2.007	2.900	10.1	20.4
3 2	12 14.36	+ 9 35.4	1.937	2.887	6.9	20.2
3 12	12 8.14	+11 9.8	1.895	2.873	4.3	20.0
3 22	12 1.06	+12 39.5	1.881	2.860	4.6	20.0
4 1	11 53.96	+13 56.6	1.895	2.847	7.6	20.1
4 11	11 47.74	+14 55.2	1.936	2.833	10.9	20.3
4 21	11 43.05	+15 32.3	1.999	2.820	14.0	20.5

286243 2001 UQ_{203} 3 20.9 50°.14 0°.4/20.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.35	− 0 39.2	1.350	2.157	19.2	20.5
2 21	12 26.80	− 0 36.4	1.277	2.163	15.2	20.2
3 2	12 20.11	− 0 17.8	1.223	2.170	10.4	20.0
3 12	12 11.03	+ 0 12.1	1.193	2.177	5.0	19.7
3 22	12 0.72	+ 0 47.3	1.188	2.184	0.9	19.4
4 1	11 50.63	+ 1 20.1	1.208	2.191	6.4	19.8
4 11	11 42.18	+ 1 43.5	1.254	2.198	11.6	20.1
4 21	11 36.30	+ 1 53.0	1.321	2.206	16.0	20.4

432096 2008 YL_{168} 3 20.9 45°.30 0°.3/20.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.15	− 0 4.4	1.770	2.561	15.9	20.4
2 21	12 24.88	− 0 5.2	1.706	2.583	12.5	20.3
3 2	12 18.24	+ 0 5.3	1.663	2.606	8.4	20.1
3 12	12 9.92	+ 0 23.5	1.645	2.628	4.0	19.8
3 22	12 0.87	+ 0 44.8	1.655	2.651	0.7	19.6
4 1	11 52.15	+ 1 4.1	1.694	2.675	5.1	20.0
4 11	11 44.73	+ 1 16.8	1.758	2.699	9.1	20.3
4 21	11 39.29	+ 1 19.9	1.847	2.723	12.6	20.6

117551 2005 EL_{10} 3 20.9 285°.70 2°.4/22.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.44	− 6 34.1	1.624	2.401	17.7	20.1
2 21	12 25.15	− 6 51.6	1.523	2.387	14.5	19.8
3 2	12 19.03	− 6 51.8	1.441	2.372	10.5	19.5
3 12	12 10.60	− 6 35.4	1.382	2.358	6.0	19.2
3 22	12 0.75	− 6 5.2	1.349	2.343	2.4	19.0
4 1	11 50.74	− 5 26.7	1.344	2.329	5.5	19.1
4 11	11 41.89	− 4 47.2	1.364	2.314	10.3	19.4
4 21	11 35.22	− 4 13.6	1.407	2.300	14.7	19.6

401108 2011 UN_{243} 3 20.9 166°.09 2°.3/18.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 31.41	+ 3 35.0	1.993	2.782	14.5	21.7
2 21	12 26.58	+ 4 15.5	1.909	2.788	11.3	21.5
3 2	12 19.42	+ 5 5.9	1.849	2.793	7.6	21.3
3 12	12 10.54	+ 6 0.9	1.815	2.798	3.8	21.1
3 22	12 0.79	+ 6 53.9	1.811	2.801	2.7	21.0
4 1	11 51.17	+ 7 38.8	1.835	2.804	6.2	21.2
4 11	11 42.70	+ 8 10.4	1.887	2.806	10.0	21.5
4 21	11 36.08	+ 8 26.1	1.964	2.807	13.4	21.7

225542 2000 SW_{124} 3 20.9 188°.58 3°.9/16.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.54	+10 30.4	2.366	3.161	12.3	21.0
2 21	12 25.56	+11 9.2	2.279	3.160	9.6	20.8
3 2	12 18.56	+11 51.3	2.217	3.159	6.7	20.6
3 12	12 10.08	+12 31.3	2.183	3.157	4.3	20.5
3 22	12 0.85	+13 3.9	2.178	3.155	4.3	20.5
4 1	11 51.73	+13 24.3	2.203	3.152	6.8	20.6
4 11	11 43.56	+13 29.8	2.255	3.149	9.7	20.8
4 21	11 36.98	+13 19.4	2.331	3.145	12.5	21.0

373049 2011 EZ_{66} 3 20.9 164°.68 0°.7/21.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.19	− 4 53.8	2.135	2.903	14.3	21.5
2 21	12 22.42	− 4 35.9	2.043	2.906	11.4	21.3
3 2	12 16.57	− 4 3.4	1.974	2.908	7.9	21.1
3 12	12 9.17	− 3 19.1	1.930	2.910	4.1	20.8
3 22	12 0.96	− 2 27.3	1.915	2.911	0.7	20.6
4 1	11 52.82	− 1 33.6	1.930	2.913	4.3	20.8
4 11	11 45.63	− 0 44.0	1.972	2.914	8.2	21.1
4 21	11 40.05	− 0 3.2	2.039	2.915	11.6	21.3

127885 2003 GL_6 3 20.9 273°.75 0°.8/20.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.93	− 2 1.5	1.533	2.335	17.5	19.9
2 21	12 23.23	− 1 25.4	1.438	2.322	13.9	19.6
3 2	12 17.73	− 0 29.7	1.362	2.308	9.5	19.3
3 12	12 9.96	+ 0 40.9	1.311	2.295	4.5	19.0
3 22	12 0.85	+ 1 59.1	1.286	2.281	1.3	18.7
4 1	11 51.64	+ 3 15.4	1.287	2.268	6.5	19.0
4 11	11 43.66	+ 4 20.1	1.314	2.254	11.6	19.3
4 21	11 37.89	+ 5 6.8	1.362	2.240	16.1	19.5

502238 2015 BN_{93} 3 20.9 107°.80 1°.8/19.2 17

2 11	12 27.42	+ 2 35.3	2.031	2.825	14.1	21.6
2 21	12 23.37	+ 3 7.0	1.953	2.834	10.9	21.4
3 2	12 17.18	+ 3 48.3	1.898	2.843	7.3	21.2
3 12	12 9.44	+ 4 34.7	1.869	2.852	3.5	21.0
3 22	12 0.93	+ 5 20.4	1.868	2.861	2.1	20.9
4 1	11 52.60	+ 5 59.7	1.896	2.870	5.6	21.1
4 11	11 45.34	+ 6 27.9	1.952	2.878	9.3	21.4
4 21	11 39.79	+ 6 42.2	2.031	2.886	12.5	21.6

500529 2012 TA_{317} 3 20.9 104°.74 3°.6/16.3 17

2 11	12 24.36	+ 8 45.5	2.496	3.298	11.5	21.6
2 21	12 20.54	+ 9 51.0	2.428	3.314	8.9	21.4
3 2	12 15.02	+11 1.0	2.385	3.330	6.1	21.3
3 12	12 8.32	+12 10.0	2.371	3.346	3.9	21.2
3 22	12 1.07	+13 12.0	2.385	3.361	4.1	21.2
4 1	11 54.00	+14 2.0	2.429	3.376	6.4	21.4
4 11	11 47.78	+14 36.6	2.501	3.391	9.0	21.5
4 21	11 42.93	+14 54.6	2.596	3.406	11.5	21.7

266357 2007 EY_9 3 20.9 343°.80 3°.9/18.1 17

2 11	12 28.07	+ 7 45.9	1.532	2.353	16.6	19.8
2 21	12 24.76	+ 8 8.2	1.450	2.346	13.0	19.5
3 2	12 18.63	+ 8 37.7	1.390	2.340	8.9	19.3
3 12	12 10.31	+ 9 7.6	1.353	2.335	5.0	19.0
3 22	12 0.82	+ 9 30.8	1.343	2.330	4.3	19.0
4 1	11 51.45	+ 9 40.9	1.358	2.326	8.0	19.2
4 11	11 43.45	+ 9 33.5	1.398	2.323	12.3	19.4
4 21	11 37.72	+ 9 7.6	1.460	2.320	16.2	19.6

380470 2003 UT_{367} 3 20.9 118°.76 0°.9/19.9 17

2 11	12 24.85	− 0 26.5	2.152	2.939	13.6	21.7
2 21	12 21.29	+ 0 9.6	2.068	2.944	10.6	21.5
3 2	12 15.75	+ 0 57.7	2.006	2.950	7.2	21.3
3 12	12 8.76	+ 1 53.6	1.971	2.955	3.3	21.1
3 22	12 1.02	+ 2 51.9	1.965	2.960	1.2	20.9
4 1	11 53.40	+ 3 46.5	1.988	2.965	4.9	21.2
4 11	11 46.73	+ 4 32.1	2.038	2.970	8.6	21.4
4 21	11 41.61	+ 5 4.8	2.113	2.975	11.8	21.6

8301 Haseyuji 3 20.9 34°.96 2°.5/18.9 18

2 11	12 25.43	+ 1 25.5	1.304	2.128	18.8	18.0
2 21	12 22.98	+ 2 14.2	1.236	2.134	14.7	17.7
3 2	12 17.52	+ 3 20.1	1.188	2.141	9.8	17.5
3 12	12 9.78	+ 4 35.6	1.163	2.148	4.7	17.2
3 22	12 0.90	+ 5 50.8	1.162	2.155	3.0	17.1
4 1	11 52.27	+ 6 55.2	1.188	2.164	7.7	17.4
4 11	11 45.22	+ 7 40.7	1.237	2.172	12.6	17.7
4 21	11 40.62	+ 8 3.4	1.307	2.181	16.9	18.0

272954 2006 CK_7 3 20.9 300°.95 6°.4/26.2 17

2 11	12 27.65	−16 31.9	1.916	2.634	17.3	20.0
2 21	12 24.20	−17 26.3	1.810	2.623	14.9	19.8
3 2	12 18.21	−18 1.7	1.723	2.611	11.9	19.6
3 12	12 10.16	−18 15.6	1.659	2.599	8.9	19.4
3 22	12 0.84	−18 7.1	1.620	2.588	6.7	19.2
4 1	11 51.33	−17 38.4	1.608	2.577	6.9	19.2
4 11	11 42.81	−16 55.4	1.622	2.566	9.5	19.3
4 21	11 36.21	−16 5.5	1.660	2.555	12.7	19.5

334790 2003 SS_{172} 3 20.9 258°.13 0°.5/20.5 17

2 11	12 29.28	+ 0 9.5	2.195	2.973	13.6	20.9
2 21	12 24.93	+ 0 14.4	2.088	2.958	10.8	20.6
3 2	12 18.38	+ 0 29.0	2.003	2.943	7.4	20.4
3 12	12 10.12	+ 0 50.7	1.945	2.928	3.6	20.1
3 22	12 0.86	+ 1 15.5	1.916	2.912	0.8	19.9
4 1	11 51.53	+ 1 39.0	1.916	2.896	4.8	20.1
4 11	11 43.07	+ 1 56.6	1.945	2.879	8.8	20.3
4 21	11 36.25	+ 2 4.8	1.998	2.863	12.3	20.5

498543 2008 GO_{36} 3 20.9 314°.93 3°.1/18.3 17

2 11	12 22.44	+ 3 2.0	1.467	2.292	17.0	21.3
2 21	12 20.69	+ 3 51.2	1.368	2.267	13.4	21.0
3 2	12 16.14	+ 4 57.1	1.289	2.243	9.1	20.7
3 12	12 9.26	+ 6 13.3	1.234	2.219	4.6	20.4
3 22	12 0.95	+ 7 30.8	1.204	2.195	3.7	20.3
4 1	11 52.45	+ 8 39.0	1.200	2.172	8.2	20.5
4 11	11 45.12	+ 9 28.7	1.219	2.150	13.2	20.7
4 21	11 40.00	+ 9 54.7	1.259	2.128	17.7	20.9

127332 2002 JW_{110} 3 20.9 304°.11 0°.6/21.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.42	− 3 21.1	1.838	2.624	15.6	20.1
2 21	12 22.36	− 3 16.8	1.734	2.607	12.5	19.8
3 2	12 16.89	− 2 57.8	1.652	2.591	8.8	19.6
3 12	12 9.48	− 2 26.4	1.594	2.575	4.5	19.3
3 22	12 0.93	− 1 46.8	1.563	2.559	0.6	18.9
4 1	11 52.28	− 1 4.9	1.560	2.543	5.0	19.2
4 11	11 44.62	− 0 27.1	1.583	2.528	9.5	19.4
4 21	11 38.81	+ 0 1.1	1.630	2.513	13.6	19.6

72371 2001 CP_3 3 20.9 14°.32 2°.0/19.5 18

2 11	12 26.74	+ 2 13.5	1.322	2.144	18.7	18.6
2 21	12 24.03	+ 2 34.5	1.250	2.146	14.6	18.4
3 2	12 18.27	+ 3 9.6	1.197	2.149	9.9	18.1
3 12	12 10.17	+ 3 52.9	1.168	2.153	4.7	17.8
3 22	12 0.87	+ 4 36.5	1.163	2.157	2.5	17.7
4 1	11 51.77	+ 5 12.0	1.184	2.162	7.3	18.0
4 11	11 44.24	+ 5 32.7	1.228	2.168	12.2	18.3
4 21	11 39.20	+ 5 35.2	1.293	2.174	16.6	18.5

299945 2006 TU_{53} 3 20.9 128°.53 0°.5/20.3 18

2 11	12 23.89	− 0 54.5	2.833	3.605	11.0	21.7
2 21	12 19.99	− 0 22.4	2.749	3.617	8.6	21.6
3 2	12 14.59	+ 0 18.8	2.689	3.628	5.8	21.4
3 12	12 8.11	+ 1 5.9	2.657	3.640	2.7	21.2
3 22	12 1.12	+ 1 55.2	2.655	3.651	0.8	21.1
4 1	11 54.24	+ 2 42.1	2.684	3.661	3.8	21.3
4 11	11 48.08	+ 3 22.9	2.741	3.672	6.7	21.5
4 21	11 43.10	+ 3 54.7	2.825	3.681	9.4	21.7

209043 2003 OM_{20} 3 20.9 229°.50 2°.0/18.9 18

2 11	12 26.57	+ 0 34.5	1.811	2.608	15.4	21.1
2 21	12 23.22	+ 1 34.0	1.716	2.599	12.1	20.9
3 2	12 17.43	+ 2 49.7	1.643	2.590	8.1	20.6
3 12	12 9.71	+ 4 15.7	1.596	2.580	3.9	20.3
3 22	12 0.92	+ 5 44.1	1.577	2.569	2.5	20.2
4 1	11 52.10	+ 7 5.8	1.586	2.558	6.6	20.4
4 11	11 44.36	+ 8 13.0	1.622	2.547	10.9	20.7
4 21	11 38.51	+ 9 0.6	1.681	2.535	14.8	20.9

366403 2001 SB_{104} 3 20.9 177°.66 1°.0/22.1 16

2 11	12 28.31	− 5 51.1	2.453	3.204	13.1	23.2
2 21	12 23.79	− 5 35.4	2.355	3.207	10.5	23.1
3 2	12 17.38	− 5 6.4	2.281	3.209	7.4	22.9
3 12	12 9.54	− 4 26.2	2.233	3.210	3.9	22.6
3 22	12 0.96	− 3 38.4	2.215	3.210	1.0	22.4
4 1	11 52.42	− 2 47.8	2.227	3.210	3.9	22.6
4 11	11 44.73	− 1 59.6	2.268	3.209	7.4	22.8
4 21	11 38.50	− 1 18.3	2.336	3.207	10.5	23.0

30701 2381 $T\text{-}_3$ 3 20.9 195°.80 1°.3/22.1 18

2 11	12 29.41	− 6 30.6	1.881	2.646	16.1	20.4
2 21	12 25.34	− 6 12.8	1.785	2.644	13.0	20.1
3 2	12 18.81	− 5 36.9	1.710	2.641	9.2	19.9
3 12	12 10.36	− 4 45.3	1.660	2.637	4.9	19.6
3 22	12 0.86	− 3 42.7	1.637	2.633	1.3	19.4
4 1	11 51.36	− 2 35.9	1.644	2.628	4.8	19.6
4 11	11 42.96	− 1 32.5	1.678	2.622	9.2	19.8
4 21	11 36.47	− 0 39.0	1.737	2.616	13.2	20.1

227547 2005 YS_{136} 3 20.9 153°.79 0°.6/20.4 17

2 11	12 26.60	− 0 52.2	1.981	2.768	14.6	20.9
2 21	12 22.90	− 0 29.0	1.894	2.770	11.5	20.7
3 2	12 16.98	+ 0 7.0	1.829	2.771	7.8	20.5
3 12	12 9.41	+ 0 51.8	1.789	2.772	3.7	20.2
3 22	12 0.98	+ 1 40.2	1.778	2.774	0.9	20.0
4 1	11 52.63	+ 2 26.2	1.795	2.775	5.1	20.3
4 11	11 45.32	+ 3 4.1	1.840	2.776	9.1	20.5
4 21	11 39.74	+ 3 29.9	1.908	2.777	12.6	20.8

368265 2002 AV_{180} 3 20.9 107°.59 10°.7/30.6 17

2 11	12 32.88	−27 57.6	2.026	2.656	18.8	20.6
2 21	12 28.42	−29 36.3	1.933	2.660	17.0	20.5
3 2	12 21.17	−30 52.6	1.858	2.665	14.9	20.3
3 12	12 11.63	−31 40.9	1.803	2.669	12.8	20.2
3 22	12 0.71	−31 57.4	1.771	2.673	11.2	20.1
4 1	11 49.61	−31 42.0	1.763	2.676	10.7	20.0
4 11	11 39.66	−30 59.5	1.780	2.680	11.5	20.1
4 21	11 31.85	−29 58.2	1.819	2.684	13.3	20.2

187439 2005 WZ_{73} 3 20.9 170°.27 0°.3/20.5 17

2 11	12 24.93	− 3 55.3	2.375	3.143	13.0	20.9
2 21	12 21.20	− 2 57.5	2.282	3.147	10.3	20.7
3 2	12 15.63	− 1 44.6	2.213	3.151	7.0	20.5
3 12	12 8.70	− 0 21.0	2.171	3.153	3.3	20.3
3 22	12 1.08	+ 1 7.7	2.160	3.156	0.7	20.1
4 1	11 53.52	+ 2 34.7	2.179	3.157	4.4	20.4
4 11	11 46.81	+ 3 53.5	2.227	3.158	8.0	20.6
4 21	11 41.53	+ 4 59.2	2.301	3.159	11.1	20.8

241052 2006 SN_{22} 3 20.9 125°.17 2°.9/17.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.70	+ 6 35.0	2.553	3.351	11.4	20.6
2 21	12 20.05	+ 7 32.2	2.475	3.360	8.8	20.4
3 2	12 14.74	+ 8 35.6	2.423	3.369	5.9	20.2
3 12	12 8.24	+ 9 40.0	2.398	3.377	3.4	20.1
3 22	12 1.16	+10 40.0	2.403	3.385	3.3	20.1
4 1	11 54.20	+11 30.5	2.437	3.393	5.8	20.2
4 11	11 48.04	+12 7.6	2.499	3.401	8.6	20.4
4 21	11 43.20	+12 29.7	2.585	3.409	11.1	20.6

264749 2002 CA_{245} 3 20.9 320°.31 11°.0/28.8 17

2 11	12 26.50	−23 46.2	1.695	2.385	20.2	19.4
2 21	12 24.01	−25 25.0	1.587	2.365	18.2	19.2
3 2	12 18.57	−26 42.5	1.496	2.345	15.7	19.0
3 12	12 10.57	−27 32.3	1.425	2.325	13.3	18.8
3 22	12 0.84	−27 49.6	1.375	2.306	11.4	18.6
4 1	11 50.65	−27 33.0	1.348	2.288	11.1	18.5
4 11	11 41.49	−26 47.4	1.344	2.271	12.6	18.6
4 21	11 34.60	−25 41.6	1.362	2.254	15.2	18.7

185876 2000 NF_{18} 3 20.9 247°.26 2°.3/18.5 17

2 11	12 27.80	+ 3 52.2	2.303	3.092	12.8	21.1
2 21	12 23.70	+ 4 35.4	2.193	3.072	10.0	20.9
3 2	12 17.53	+ 5 28.4	2.107	3.052	6.8	20.6
3 12	12 9.73	+ 6 26.5	2.049	3.031	3.4	20.4
3 22	12 0.97	+ 7 24.1	2.020	3.010	2.7	20.3
4 1	11 52.12	+ 8 15.1	2.021	2.988	5.9	20.5
4 11	11 44.07	+ 8 54.2	2.049	2.965	9.5	20.6
4 21	11 37.53	+ 9 18.3	2.102	2.941	12.8	20.8

498212 2007 TV_{433} 3 20.9 188°.39 3°.9/16.4 17

2 11	12 27.04	+10 55.3	2.523	3.323	11.5	21.8
2 21	12 22.73	+11 40.0	2.439	3.322	8.9	21.6
3 2	12 16.60	+12 27.8	2.379	3.322	6.3	21.5
3 12	12 9.16	+13 13.4	2.347	3.320	4.1	21.3
3 22	12 1.05	+13 51.7	2.345	3.319	4.3	21.3
4 1	11 53.05	+14 18.2	2.371	3.317	6.6	21.5
4 11	11 45.88	+14 29.9	2.425	3.315	9.3	21.6
4 21	11 40.14	+14 26.0	2.503	3.312	11.9	21.8

247677 2002 YA_{32} 3 20.9 94°.82 3°.4/24.9 18

2 11	12 25.70	−13 7.9	2.432	3.154	13.9	20.5
2 21	12 21.75	−13 15.1	2.346	3.170	11.5	20.4
3 2	12 15.97	−13 5.8	2.282	3.185	8.7	20.2
3 12	12 8.86	−12 40.6	2.243	3.200	5.7	20.0
3 22	12 1.10	−12 1.9	2.232	3.215	3.5	19.9
4 1	11 53.45	−11 13.8	2.251	3.230	4.2	20.0
4 11	11 46.69	−10 21.7	2.297	3.244	6.9	20.2
4 21	11 41.37	− 9 30.8	2.370	3.259	9.7	20.4

388839 2008 ES_{7} 3 20.9 93°.39 3°.8/21.3 18

2 11	13 10.85	+ 4 49.8	0.775	1.573	30.4	20.6
2 21	13 1.83	+ 2 4.5	0.709	1.586	24.9	20.3
3 2	12 46.02	− 0 50.6	0.659	1.598	17.8	19.9
3 12	12 24.28	− 3 50.0	0.631	1.610	9.5	19.6
3 22	11 59.27	− 6 40.6	0.628	1.622	3.8	19.3
4 1	11 35.06	− 9 8.1	0.652	1.634	10.5	19.7
4 11	11 15.32	−11 7.5	0.701	1.645	18.0	20.1
4 21	11 1.88	−12 43.4	0.769	1.655	24.2	20.6

118083 5215 $T\text{-}_{2}$ 3 20.9 231°.88 3°.2/24.9 18

2 11	12 23.74	−13 21.5	2.638	3.358	13.0	20.3
2 21	12 20.24	−13 22.1	2.529	3.351	10.8	20.1
3 2	12 15.00	−13 6.7	2.441	3.343	8.2	19.9
3 12	12 8.44	−12 35.8	2.379	3.336	5.5	19.7
3 22	12 1.14	−11 51.4	2.345	3.328	3.4	19.6
4 1	11 53.82	−10 57.1	2.340	3.320	4.1	19.6
4 11	11 47.20	− 9 58.3	2.364	3.311	6.7	19.8
4 21	11 41.87	− 9 0.2	2.414	3.303	9.5	19.9

90501 2004 EM_{4} 3 20.9 358°.82 9°.1/10.5 18

2 11	12 23.60	+21 48.6	1.828	2.656	14.0	18.9
2 21	12 20.87	+23 28.9	1.767	2.654	11.6	18.8
3 2	12 15.75	+25 5.3	1.730	2.653	9.7	18.6
3 12	12 8.86	+26 27.6	1.718	2.652	9.1	18.6
3 22	12 1.10	+27 26.8	1.731	2.652	10.2	18.7
4 1	11 53.53	+27 57.1	1.768	2.653	12.3	18.8
4 11	11 47.17	+27 56.7	1.827	2.654	14.8	19.0
4 21	11 42.74	+27 27.8	1.904	2.655	17.1	19.1

227267 2005 SQ_{123} 3 20.9 169°.07 2°.0/23.4 16

2 11	12 25.21	−10 58.0	2.272	3.012	14.3	22.1
2 21	12 21.57	−10 23.1	2.176	3.016	11.7	21.9
3 2	12 15.97	− 9 28.8	2.101	3.019	8.5	21.7
3 12	12 8.92	− 8 17.5	2.052	3.022	5.0	21.5
3 22	12 1.10	− 6 53.6	2.032	3.024	2.1	21.3
4 1	11 53.35	− 5 23.3	2.042	3.026	4.0	21.4
4 11	11 46.50	− 3 54.4	2.081	3.027	7.5	21.6
4 21	11 41.16	− 2 33.3	2.146	3.028	10.9	21.8

319612 2006 SL_{261} 3 20.9 59°.25 1°.3/22.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 23.26	− 7 5.0	2.199	2.963	14.1	21.1
2 21	12 19.99	− 6 45.0	2.120	2.977	11.2	20.9
3 2	12 14.84	− 6 9.6	2.062	2.991	7.9	20.7
3 12	12 8.34	− 5 21.5	2.030	3.006	4.3	20.5
3 22	12 1.17	− 4 24.9	2.026	3.020	1.3	20.3
4 1	11 54.16	− 3 25.3	2.051	3.035	3.9	20.5
4 11	11 48.07	− 2 28.9	2.104	3.050	7.5	20.8
4 21	11 43.48	− 1 40.3	2.182	3.065	10.7	21.0

164517 2006 HZ_{16} 3 20.9 190°.39 1°.5/19.1 17

2 11	12 24.57	+ 1 26.8	2.430	3.216	12.3	21.1
2 21	12 20.90	+ 2 13.0	2.338	3.215	9.5	20.9
3 2	12 15.44	+ 3 9.5	2.269	3.214	6.4	20.7
3 12	12 8.64	+ 4 11.9	2.229	3.212	3.0	20.5
3 22	12 1.15	+ 5 14.8	2.217	3.210	1.9	20.4
4 1	11 53.71	+ 6 12.8	2.236	3.208	5.0	20.6
4 11	11 47.08	+ 7 0.7	2.283	3.205	8.3	20.8
4 21	11 41.83	+ 7 35.5	2.354	3.202	11.3	21.0

21684 Alinafiocca 3 20.9 69°.66 1°.3/20.0 18

2 11	12 30.83	+ 1 13.2	1.512	2.315	17.6	18.8
2 21	12 26.74	+ 1 28.3	1.444	2.329	13.8	18.6
3 2	12 19.83	+ 1 56.3	1.396	2.343	9.3	18.4
3 12	12 10.86	+ 2 32.1	1.373	2.357	4.4	18.1
3 22	12 0.90	+ 3 9.2	1.376	2.371	1.7	18.0
4 1	11 51.26	+ 3 40.7	1.407	2.386	6.3	18.3
4 11	11 43.14	+ 4 0.8	1.463	2.400	10.9	18.6
4 21	11 37.34	+ 4 6.4	1.541	2.414	14.8	18.9

52919 1998 SS_{108} 3 20.9 216°.87 1°.5/22.3 18

2 11	12 30.15	− 6 59.8	1.878	2.639	16.2	20.5
2 21	12 26.05	− 6 46.7	1.775	2.631	13.2	20.2
3 2	12 19.40	− 6 15.2	1.693	2.622	9.4	20.0
3 12	12 10.74	− 5 27.2	1.635	2.611	5.1	19.7
3 22	12 0.90	− 4 26.9	1.605	2.600	1.5	19.4
4 1	11 50.98	− 3 20.9	1.605	2.588	4.9	19.6
4 11	11 42.12	− 2 17.0	1.631	2.576	9.4	19.8
4 21	11 35.19	− 1 21.9	1.683	2.562	13.5	20.1

505273 2012 VV_{30} 3 20.9 71°.99 4°.9/15.4 17

2 11	12 26.30	+13 38.2	2.302	3.111	12.1	21.1
2 21	12 22.29	+14 29.0	2.230	3.117	9.5	20.9
3 2	12 16.36	+15 21.0	2.183	3.123	6.9	20.8
3 12	12 9.06	+16 8.1	2.163	3.130	5.1	20.7
3 22	12 1.12	+16 44.6	2.171	3.136	5.5	20.7
4 1	11 53.35	+17 5.9	2.207	3.143	7.7	20.9
4 11	11 46.55	+17 9.5	2.269	3.149	10.3	21.0
4 21	11 41.29	+16 55.4	2.354	3.156	12.8	21.2

417637 2006 XM_{16} 3 20.9 78°.17 7°.7/28.3 18

2 11	12 29.31	−21 21.9	1.815	2.508	19.0	21.2
2 21	12 25.45	−22 14.5	1.736	2.523	16.4	21.0
3 2	12 18.96	−22 42.3	1.674	2.539	13.5	20.8
3 12	12 10.48	−22 42.5	1.633	2.554	10.5	20.7
3 22	12 0.95	−22 14.9	1.617	2.570	8.2	20.6
4 1	11 51.55	−21 23.2	1.627	2.585	7.9	20.6
4 11	11 43.44	−20 15.2	1.662	2.600	9.7	20.7
4 21	11 37.43	−18 59.9	1.721	2.615	12.4	20.9

473913 2016 ED_{151} 3 20.9 279°.58 1°.7/19.4 17

2 11	12 27.13	+ 1 53.9	1.862	2.659	15.0	21.6
2 21	12 23.72	+ 2 22.5	1.757	2.640	11.8	21.4
3 2	12 17.85	+ 3 3.4	1.674	2.620	8.1	21.1
3 12	12 10.01	+ 3 52.2	1.616	2.600	3.9	20.8
3 22	12 1.00	+ 4 42.8	1.587	2.580	2.1	20.6
4 1	11 51.85	+ 5 28.5	1.585	2.560	6.2	20.8
4 11	11 43.70	+ 6 2.8	1.609	2.540	10.6	21.0
4 21	11 37.40	+ 6 21.6	1.657	2.519	14.5	21.2

423755 2006 DK_{37} 3 20.9 354°.83 0°.2/20.8 17

2 11	12 22.60	− 3 46.0	1.858	2.647	15.4	21.1
2 21	12 19.97	− 3 5.5	1.770	2.646	12.2	20.9
3 2	12 15.12	− 2 7.7	1.703	2.645	8.3	20.6
3 12	12 8.59	− 0 56.6	1.662	2.644	4.0	20.4
3 22	12 1.17	+ 0 21.3	1.648	2.644	0.6	20.1
4 1	11 53.82	+ 1 38.2	1.662	2.644	5.1	20.4
4 11	11 47.49	+ 2 46.4	1.703	2.644	9.3	20.7
4 21	11 42.91	+ 3 40.4	1.768	2.644	13.1	20.9

333700 2008 WP_{18} 3 20.9 172°.74 0°.4/21.4 17

2 11	12 25.44	− 4 11.6	2.302	3.070	13.4	21.5
2 21	12 21.70	− 3 48.5	2.209	3.072	10.6	21.3
3 2	12 16.04	− 3 12.1	2.138	3.073	7.4	21.1
3 12	12 8.96	− 2 25.1	2.094	3.074	3.7	20.9
3 22	12 1.13	− 1 31.8	2.079	3.075	0.5	20.6
4 1	11 53.37	− 0 37.6	2.093	3.076	4.1	20.9
4 11	11 46.46	+ 0 12.0	2.136	3.076	7.8	21.1
4 21	11 41.04	+ 0 52.6	2.204	3.076	11.0	21.3

494834 2007 TO_{428} 3 20.9 198°.47 4°.9/16.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 31.61	+10 55.7	2.045	2.847	13.7	22.0
2 21	12 26.83	+11 56.1	1.959	2.843	10.8	21.8
3 2	12 19.69	+13 1.6	1.897	2.839	7.6	21.6
3 12	12 10.78	+14 4.9	1.862	2.834	5.2	21.4
3 22	12 0.93	+14 58.7	1.856	2.828	5.4	21.4
4 1	11 51.16	+15 36.4	1.878	2.822	8.2	21.6
4 11	11 42.48	+15 54.3	1.927	2.814	11.5	21.8
4 21	11 35.66	+15 51.5	1.998	2.806	14.5	22.0

270208 2001 TM_{92} 3 20.9 153°.89 1°.2/22.4 16

2 11	12 27.52	− 7 19.0	2.509	3.254	13.0	22.3
2 21	12 23.10	− 6 54.8	2.417	3.264	10.4	22.1
3 2	12 16.86	− 6 16.3	2.349	3.274	7.4	22.0
3 12	12 9.32	− 5 25.8	2.307	3.282	4.0	21.8
3 22	12 1.10	− 4 27.2	2.296	3.290	1.2	21.6
4 1	11 52.99	− 3 25.5	2.314	3.298	3.7	21.8
4 11	11 45.73	− 2 26.2	2.363	3.304	7.0	22.0
4 21	11 39.88	− 1 34.1	2.438	3.310	10.1	22.2

33013 1997 FZ 3 20.9 308°.79 0°.1/21.0 18

2 11	12 22.92	− 2 44.6	2.275	3.055	13.2	19.1
2 21	12 19.84	− 2 23.7	2.175	3.046	10.5	18.9
3 2	12 14.85	− 1 50.2	2.098	3.037	7.2	18.6
3 12	12 8.42	− 1 7.0	2.047	3.029	3.5	18.4
3 22	12 1.20	− 0 18.4	2.024	3.020	0.4	18.1
4 1	11 53.99	+ 0 30.4	2.030	3.012	4.3	18.4
4 11	11 47.57	+ 1 14.0	2.064	3.004	8.0	18.6
4 21	11 42.60	+ 1 48.2	2.123	2.996	11.3	18.8

243295 2008 EP_{9} 3 20.9 313°.33 3°.8/16.3 17

2 11	12 20.60	+ 6 33.1	2.090	2.905	13.0	20.5
2 21	12 18.26	+ 7 49.2	1.993	2.887	10.1	20.3
3 2	12 13.91	+ 9 15.8	1.920	2.870	6.9	20.0
3 12	12 8.02	+10 46.2	1.874	2.853	4.2	19.8
3 22	12 1.25	+12 12.5	1.856	2.836	4.5	19.8
4 1	11 54.44	+13 26.9	1.866	2.820	7.5	19.9
4 11	11 48.48	+14 23.4	1.902	2.804	10.9	20.1
4 21	11 44.04	+14 58.7	1.961	2.788	14.0	20.3

187640 2007 CF_{31} 3 20.9 239°.68 2°.1/18.7 17

2 11	12 26.50	+ 2 23.4	2.251	3.040	13.0	21.2
2 21	12 22.72	+ 3 15.7	2.145	3.024	10.2	21.0
3 2	12 16.89	+ 4 19.6	2.063	3.008	6.9	20.8
3 12	12 9.45	+ 5 30.4	2.008	2.991	3.4	20.5
3 22	12 1.09	+ 6 41.8	1.982	2.973	2.5	20.4
4 1	11 52.65	+ 7 47.2	1.986	2.955	5.8	20.6
4 11	11 45.04	+ 8 40.7	2.018	2.936	9.5	20.8
4 21	11 38.96	+ 9 18.4	2.075	2.917	12.8	21.0

35306 1996 XQ_{17} 3 20.9 199°.34 5°.5/14.4 17

2 11	12 27.19	+13 45.3	2.262	3.070	12.3	19.9
2 21	12 23.15	+15 1.3	2.181	3.067	9.7	19.8
3 2	12 17.07	+16 20.3	2.125	3.063	7.2	19.6
3 12	12 9.47	+17 34.9	2.097	3.060	5.6	19.5
3 22	12 1.09	+18 38.0	2.097	3.055	6.2	19.5
4 1	11 52.79	+19 23.5	2.125	3.050	8.5	19.6
4 11	11 45.43	+19 48.1	2.179	3.045	11.2	19.8
4 21	11 39.67	+19 51.3	2.255	3.039	13.8	20.0

457509 2008 VV_{58} 3 20.9 130°.63 3°.0/18.3 18

2 11	12 30.59	+ 3 47.5	1.679	2.481	16.2	22.0
2 21	12 26.32	+ 4 43.8	1.607	2.494	12.6	21.8
3 2	12 19.45	+ 5 51.8	1.558	2.505	8.4	21.5
3 12	12 10.67	+ 7 4.6	1.534	2.517	4.3	21.3
3 22	12 0.97	+ 8 13.6	1.538	2.527	3.5	21.3
4 1	11 51.52	+ 9 10.9	1.571	2.538	7.2	21.5
4 11	11 43.43	+ 9 50.4	1.629	2.547	11.3	21.8
4 21	11 37.47	+10 9.9	1.710	2.556	14.9	22.0

270055 2001 OB_{39} 3 20.9 139°.77 2°.5/18.1 18

2 11	12 28.66	+ 4 44.9	2.341	3.129	12.6	21.9
2 21	12 24.03	+ 5 35.7	2.264	3.143	9.7	21.7
3 2	12 17.51	+ 6 34.3	2.212	3.157	6.5	21.5
3 12	12 9.62	+ 7 35.4	2.188	3.170	3.4	21.3
3 22	12 1.09	+ 8 33.1	2.194	3.182	2.9	21.3
4 1	11 52.74	+ 9 22.0	2.230	3.193	5.7	21.5
4 11	11 45.34	+ 9 58.0	2.293	3.203	8.9	21.7
4 21	11 39.49	+10 18.9	2.382	3.213	11.7	21.9

474789 2005 QH_{159} 3 20.9 208°.59 1°.2/19.4 16

2 11	12 26.47	+ 3 10.5	3.242	4.014	9.8	21.8
2 21	12 21.91	+ 3 29.7	3.138	4.007	7.6	21.6
3 2	12 15.89	+ 3 54.7	3.059	4.000	5.1	21.5
3 12	12 8.82	+ 4 22.6	3.009	3.992	2.5	21.3
3 22	12 1.19	+ 4 50.3	2.990	3.983	1.4	21.2
4 1	11 53.57	+ 5 14.6	3.003	3.974	3.9	21.3
4 11	11 46.54	+ 5 32.6	3.045	3.965	6.5	21.5
4 21	11 40.58	+ 5 42.4	3.114	3.955	9.0	21.7

244089 2001 UT_{63} 3 20.9 78°.92 3°.6/25.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 22.68	−14 42.3	2.337	3.060	14.4	20.5
2 21	12 19.59	−14 35.7	2.242	3.064	12.0	20.3
3 2	12 14.65	−14 9.9	2.167	3.068	9.2	20.1
3 12	12 8.31	−13 25.7	2.117	3.072	6.2	19.9
3 22	12 1.25	−12 25.8	2.094	3.076	3.8	19.8
4 1	11 54.24	−11 15.0	2.100	3.080	4.4	19.8
4 11	11 48.08	− 9 59.9	2.134	3.084	7.1	20.0
4 21	11 43.36	− 8 46.9	2.195	3.088	10.1	20.2

372925 2011 BW_{21} 3 20.9 66°.84 0°.4/20.6 17

2 11	12 25.12	− 2 32.5	1.806	2.596	15.7	21.4
2 21	12 22.00	− 1 58.9	1.721	2.598	12.4	21.2
3 2	12 16.53	− 1 9.2	1.657	2.600	8.4	21.0
3 12	12 9.30	− 0 7.7	1.618	2.601	4.0	20.7
3 22	12 1.14	+ 0 59.4	1.607	2.603	0.8	20.4
4 1	11 53.07	+ 2 4.6	1.624	2.605	5.3	20.8
4 11	11 46.11	+ 3 0.6	1.667	2.607	9.6	21.0
4 21	11 41.00	+ 3 42.5	1.734	2.608	13.4	21.3

336909 2011 HS_{14} 3 20.9 61°.18 2°.4/18.7 17

2 11	12 26.45	+ 4 0.3	1.909	2.712	14.5	20.8
2 21	12 22.83	+ 4 36.7	1.830	2.717	11.3	20.6
3 2	12 16.98	+ 5 22.6	1.774	2.722	7.6	20.4
3 12	12 9.47	+ 6 12.6	1.744	2.727	3.8	20.1
3 22	12 1.13	+ 7 0.5	1.741	2.732	2.8	20.1
4 1	11 52.94	+ 7 39.9	1.767	2.737	6.2	20.3
4 11	11 45.85	+ 8 5.9	1.819	2.742	10.0	20.5
4 21	11 40.54	+ 8 16.3	1.894	2.747	13.4	20.8

23662 1997 ES_{17} 3 20.9 266°.71 2°.2/22.9 18

2 11	12 28.03	− 8 0.6	1.900	2.660	16.1	18.5
2 21	12 24.52	− 8 1.1	1.784	2.638	13.2	18.2
3 2	12 18.50	− 7 43.8	1.690	2.616	9.6	18.0
3 12	12 10.40	− 7 9.3	1.619	2.593	5.6	17.7
3 22	12 1.01	− 6 20.6	1.576	2.569	2.3	17.4
4 1	11 51.37	− 5 23.2	1.561	2.546	4.9	17.5
4 11	11 42.64	− 4 24.5	1.573	2.521	9.4	17.7
4 21	11 35.78	− 3 31.7	1.610	2.497	13.6	17.9

111775 2002 CD_{161} 3 20.9 269°.23 1°.8/18.9 17

2 11	12 24.54	+ 3 37.5	2.496	3.287	11.8	20.0
2 21	12 20.91	+ 4 7.0	2.397	3.277	9.2	19.8
3 2	12 15.48	+ 4 44.4	2.322	3.267	6.2	19.6
3 12	12 8.72	+ 5 25.6	2.273	3.256	3.1	19.4
3 22	12 1.22	+ 6 6.3	2.254	3.246	2.1	19.3
4 1	11 53.73	+ 6 41.6	2.265	3.235	5.0	19.4
4 11	11 46.99	+ 7 7.5	2.303	3.225	8.3	19.6
4 21	11 41.60	+ 7 21.5	2.366	3.214	11.2	19.8

466802 2015 BE_{78} 3 20.9 224°.59 0°.9/21.9 17

2 11	12 25.38	− 5 43.6	2.088	2.856	14.6	21.7
2 21	12 21.95	− 5 22.7	1.990	2.852	11.7	21.5
3 2	12 16.40	− 4 45.7	1.914	2.847	8.2	21.3
3 12	12 9.23	− 3 55.4	1.864	2.842	4.3	21.0
3 22	12 1.17	− 2 56.1	1.841	2.837	0.9	20.7
4 1	11 53.11	− 1 53.9	1.848	2.832	4.4	21.0
4 11	11 45.98	− 0 55.4	1.882	2.826	8.4	21.2
4 21	11 40.48	− 0 6.1	1.941	2.820	12.0	21.4

410754 2009 DM_{55} 3 20.9 36°.71 0°.5/21.4 16

2 11	12 31.09	− 1 59.1	1.467	2.263	18.4	21.8
2 21	12 27.27	− 2 10.9	1.387	2.266	14.7	21.5
3 2	12 20.45	− 2 7.9	1.327	2.269	10.2	21.2
3 12	12 11.31	− 1 53.0	1.290	2.272	5.1	21.0
3 22	12 0.93	− 1 30.6	1.280	2.276	0.7	20.6
4 1	11 50.69	− 1 6.9	1.296	2.280	5.8	21.0
4 11	11 41.93	− 0 48.4	1.337	2.284	10.8	21.3
4 21	11 35.60	− 0 39.8	1.401	2.288	15.2	21.6

318043 2004 FG_{10} 3 20.9 120°.03 1°.8/19.0 18

2 11	12 25.64	− 0 13.8	1.876	2.670	15.0	21.4
2 21	12 22.21	+ 0 55.1	1.799	2.681	11.7	21.2
3 2	12 16.56	+ 2 19.1	1.745	2.692	7.8	21.0
3 12	12 9.27	+ 3 51.9	1.718	2.702	3.7	20.8
3 22	12 1.18	+ 5 25.4	1.719	2.712	2.3	20.7
4 1	11 53.25	+ 6 51.1	1.749	2.722	6.0	21.0
4 11	11 46.45	+ 8 1.7	1.807	2.731	10.0	21.2
4 21	11 41.43	+ 8 53.2	1.888	2.740	13.4	21.4

97783 2000 KL_{76} 3 20.9 224°.30 5°.2/15.1 18

2 11	12 28.08	+12 22.9	2.179	2.986	12.8	20.4
2 21	12 23.99	+13 32.8	2.090	2.976	10.1	20.2
3 2	12 17.75	+14 47.1	2.026	2.967	7.3	20.0
3 12	12 9.88	+15 58.7	1.989	2.956	5.4	19.9
3 22	12 1.11	+17 0.0	1.980	2.945	5.9	19.9
4 1	11 52.37	+17 44.7	2.000	2.934	8.4	20.0
4 11	11 44.58	+18 8.9	2.045	2.922	11.4	20.2
4 21	11 38.45	+18 11.7	2.113	2.909	14.2	20.3

378361 2007 LA_{14} 3 20.9 106°.55 14°.1/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 27.54	−33 56.0	1.293	1.947	26.9	21.1
2 21	12 25.60	−35 1.3	1.218	1.956	24.6	20.9
3 2	12 19.96	−35 24.6	1.154	1.965	21.8	20.7
3 12	12 11.29	−34 56.7	1.104	1.974	18.7	20.5
3 22	12 0.93	−33 32.9	1.071	1.983	15.9	20.4
4 1	11 50.70	−31 16.2	1.059	1.991	14.2	20.3
4 11	11 42.41	−28 20.6	1.069	2.000	14.6	20.4
4 21	11 37.25	−25 6.3	1.101	2.007	16.8	20.5

380071 2013 ST_{29} 3 20.9 143°.07 1°.6/19.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.70	+ 1 46.7	2.147	2.936	13.5	21.3
2 21	12 22.78	+ 2 23.3	2.063	2.942	10.6	21.1
3 2	12 16.83	+ 3 10.3	2.003	2.948	7.1	20.9
3 12	12 9.38	+ 4 3.1	1.969	2.953	3.4	20.7
3 22	12 1.18	+ 4 56.1	1.964	2.958	1.9	20.6
4 1	11 53.09	+ 5 43.4	1.989	2.962	5.3	20.8
4 11	11 45.98	+ 6 20.2	2.040	2.966	8.9	21.0
4 21	11 40.48	+ 6 43.3	2.117	2.970	12.1	21.2

18560 Coxeter 3 20.9 268°.44 2°.3/23.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.86	− 8 57.8	2.579	3.318	12.8	18.1
2 21	12 22.01	− 9 8.2	2.462	3.302	10.5	17.9
3 2	12 16.31	− 9 5.6	2.368	3.285	7.8	17.7
3 12	12 9.18	− 8 50.5	2.300	3.268	4.7	17.5
3 22	12 1.19	− 8 25.0	2.261	3.251	2.4	17.3
4 1	11 53.10	− 7 52.3	2.251	3.233	3.9	17.4
4 11	11 45.69	− 7 16.8	2.269	3.216	7.0	17.5
4 21	11 39.61	− 6 43.0	2.315	3.198	10.1	17.7

172428 2003 PX_{9} 3 20.9 235°.93 2°.7/23.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.18	−10 50.7	1.916	2.665	16.4	21.0
2 21	12 23.74	−10 36.9	1.808	2.653	13.5	20.8
3 2	12 17.87	−10 1.7	1.720	2.640	10.0	20.5
3 12	12 10.05	− 9 6.0	1.657	2.626	6.0	20.3
3 22	12 1.08	− 7 53.4	1.620	2.611	2.8	20.0
4 1	11 52.00	− 6 30.4	1.612	2.597	4.8	20.1
4 11	11 43.89	− 5 5.6	1.632	2.581	9.0	20.3
4 21	11 37.62	− 3 47.4	1.677	2.565	13.0	20.5

2111 Tselina 3 20.9 131°.44 1°.0/19.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 23.09	− 0 52.6	2.419	3.201	12.4	15.6
2 21	12 19.74	− 0 0.1	2.333	3.207	9.7	15.5
3 2	12 14.65	+ 1 4.3	2.271	3.214	6.5	15.3
3 12	12 8.30	+ 2 16.1	2.237	3.220	3.0	15.0
3 22	12 1.31	+ 3 30.0	2.232	3.226	1.3	14.9
4 1	11 54.42	+ 4 40.0	2.257	3.232	4.6	15.2
4 11	11 48.34	+ 5 40.5	2.310	3.238	7.9	15.4
4 21	11 43.62	+ 6 28.0	2.389	3.243	10.9	15.6

78043 2002 JU_{113} 3 20.9 256°.39 7°.7/28.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.68	−22 4.2	1.772	2.470	19.2	19.9
2 21	12 22.95	−22 34.3	1.669	2.460	16.8	19.7
3 2	12 17.56	−22 37.1	1.582	2.451	13.9	19.4
3 12	12 9.98	−22 9.2	1.515	2.441	10.8	19.2
3 22	12 1.10	−21 10.1	1.472	2.430	8.3	19.0
4 1	11 52.09	−19 43.6	1.455	2.420	7.9	19.0
4 11	11 44.18	−17 58.8	1.463	2.409	10.1	19.1
4 21	11 38.36	−16 7.0	1.496	2.399	13.4	19.3

502207 2015 BZ_{75} 3 20.9 132°.88 5°.4/14.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 27.19	+13 37.5	2.249	3.057	12.4	21.8
2 21	12 23.05	+14 55.7	2.183	3.069	9.7	21.7
3 2	12 16.93	+16 16.0	2.141	3.080	7.1	21.5
3 12	12 9.40	+17 30.9	2.127	3.090	5.5	21.4
3 22	12 1.20	+18 33.6	2.142	3.100	6.1	21.5
4 1	11 53.19	+19 18.5	2.185	3.110	8.3	21.6
4 11	11 46.19	+19 42.7	2.253	3.119	10.9	21.8
4 21	11 40.78	+19 46.1	2.344	3.128	13.3	22.0

188046 2001 VP_{24} 3 20.9 142°.61 5°.2/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 25.55	−18 49.0	2.097	2.799	16.5	20.1
2 21	12 22.15	−18 51.7	2.003	2.805	14.0	19.9
3 2	12 16.56	−18 31.1	1.928	2.811	11.1	19.8
3 12	12 9.32	−17 46.5	1.876	2.816	8.0	19.6
3 22	12 1.20	−16 40.0	1.851	2.821	5.6	19.4
4 1	11 53.15	−15 16.9	1.853	2.826	5.6	19.4
4 11	11 46.11	−13 45.0	1.883	2.831	8.1	19.6
4 21	11 40.78	−12 12.8	1.939	2.835	11.1	19.8

347242 2011 JD_{25} 3 20.9 201°.60 0°.7/20.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.49	− 2 25.1	1.460	2.260	18.3	21.1
2 21	12 25.32	− 1 48.3	1.376	2.258	14.5	20.9
3 2	12 19.20	− 0 51.6	1.311	2.256	10.0	20.6
3 12	12 10.76	+ 0 20.1	1.271	2.254	4.7	20.3
3 22	12 1.04	+ 1 39.0	1.256	2.252	1.1	20.0
4 1	11 51.38	+ 2 54.9	1.268	2.249	6.5	20.4
4 11	11 43.12	+ 3 58.5	1.306	2.246	11.6	20.6
4 21	11 37.23	+ 4 43.6	1.365	2.242	16.1	20.9

182838 2002 CG_{15} 3 20.9 87°.13 1°.9/23.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
2 11	12 25.60	− 7 56.3	2.471	3.218	13.1	21.0
2 21	12 21.68	− 8 1.0	2.381	3.227	10.6	20.8
3 2	12 15.97	− 7 52.5	2.314	3.235	7.7	20.6
3 12	12 8.95	− 7 32.1	2.273	3.244	4.5	20.4
3 22	12 1.26	− 7 2.5	2.261	3.253	2.0	20.3
4 1	11 53.65	− 6 27.6	2.278	3.261	3.7	20.4
4 11	11 46.88	− 5 52.1	2.324	3.270	6.9	20.6
4 21	11 41.49	− 5 20.0	2.395	3.279	9.8	20.8

431877 2008 SU_{191} 3 20.9 232°.22 3°.6/17.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.91	+ 9 35.2	2.406	3.200	12.1	22.0
2 21	12 25.21	+10 11.8	2.307	3.188	9.5	21.8
3 2	12 18.48	+10 52.6	2.233	3.175	6.6	21.6
3 12	12 10.22	+11 32.6	2.186	3.162	4.1	21.4
3 22	12 1.11	+12 6.5	2.169	3.149	4.0	21.3
4 1	11 52.01	+12 29.4	2.181	3.134	6.6	21.5
4 11	11 43.77	+12 37.9	2.221	3.120	9.7	21.6
4 21	11 37.05	+12 30.8	2.285	3.105	12.5	21.8

500942 2013 QK_{2} 3 20.9 221°.04 0°.5/21.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.81	− 5 15.9	2.401	3.159	13.2	23.5
2 21	12 22.84	− 4 43.1	2.291	3.148	10.5	23.3
3 2	12 16.91	− 3 55.3	2.204	3.136	7.4	23.0
3 12	12 9.48	− 2 55.3	2.144	3.123	3.8	22.8
3 22	12 1.19	− 1 47.5	2.114	3.110	0.5	22.5
4 1	11 52.85	− 0 37.5	2.113	3.095	4.1	22.8
4 11	11 45.29	+ 0 28.4	2.142	3.080	7.9	23.0
4 21	11 39.16	+ 1 25.1	2.198	3.065	11.2	23.1

168467 1999 JW_{127} 3 20.9 347°.70 5°.5/16.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 28.26	+13 44.3	1.896	2.712	14.1	19.4
2 21	12 24.37	+14 21.5	1.817	2.708	11.1	19.2
3 2	12 18.10	+15 0.0	1.761	2.704	8.1	19.0
3 12	12 10.07	+15 32.8	1.731	2.700	5.8	18.8
3 22	12 1.14	+15 53.4	1.727	2.697	6.0	18.8
4 1	11 52.36	+15 56.6	1.750	2.695	8.6	19.0
4 11	11 44.75	+15 40.1	1.799	2.692	11.8	19.1
4 21	11 39.05	+15 4.3	1.869	2.691	14.8	19.3

165542 2001 DY_{22} 3 21.0 107°.54 0°.6/20.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 30.92	− 1 10.3	1.771	2.555	16.2	20.3
2 21	12 26.41	− 0 44.6	1.699	2.573	12.7	20.1
3 2	12 19.44	− 0 5.0	1.649	2.591	8.6	19.8
3 12	12 10.68	+ 0 44.0	1.625	2.608	4.1	19.6
3 22	12 1.09	+ 1 36.2	1.628	2.624	0.9	19.4
4 1	11 51.77	+ 2 25.0	1.661	2.640	5.4	19.8
4 11	11 43.76	+ 3 4.2	1.720	2.656	9.6	20.0
4 21	11 37.77	+ 3 30.0	1.803	2.671	13.3	20.3

200564 2001 OX_{40} 3 21.0 169°.40 5°.8/15.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 32.07	+11 57.9	1.804	2.614	14.9	20.8
2 21	12 27.45	+13 11.4	1.731	2.618	11.8	20.6
3 2	12 20.25	+14 29.7	1.680	2.622	8.4	20.4
3 12	12 11.12	+15 43.9	1.656	2.625	6.0	20.3
3 22	12 1.04	+16 45.3	1.659	2.627	6.5	20.3
4 1	11 51.14	+17 26.6	1.691	2.629	9.4	20.5
4 11	11 42.55	+17 44.0	1.747	2.630	12.7	20.7
4 21	11 36.05	+17 37.5	1.824	2.630	15.8	20.9

265346 2004 RH_{25} 3 21.0 218°.20 0°.7/21.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 26.35	− 5 8.3	2.229	2.993	13.9	21.7
2 21	12 22.60	− 4 47.5	2.127	2.987	11.1	21.5
3 2	12 16.80	− 4 12.0	2.047	2.980	7.8	21.3
3 12	12 9.45	− 3 24.4	1.994	2.972	4.0	21.0
3 22	12 1.22	− 2 28.8	1.969	2.965	0.7	20.8
4 1	11 52.98	− 1 30.7	1.973	2.956	4.2	21.0
4 11	11 45.60	− 0 36.3	2.006	2.948	8.1	21.2
4 21	11 39.76	+ 0 9.5	2.065	2.939	11.5	21.4

162605 2000 ST_{74} 3 21.0 182°.06 0°.8/20.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 29.20	− 1 27.4	2.107	2.883	14.2	21.9
2 21	12 24.86	− 0 44.9	2.014	2.884	11.2	21.7
3 2	12 18.35	+ 0 11.5	1.945	2.885	7.6	21.5
3 12	12 10.18	+ 1 17.6	1.902	2.884	3.6	21.2
3 22	12 1.15	+ 2 27.5	1.888	2.883	1.1	21.0
4 1	11 52.17	+ 3 34.3	1.904	2.882	5.1	21.3
4 11	11 44.18	+ 4 31.8	1.949	2.879	9.0	21.6
4 21	11 37.89	+ 5 15.4	2.018	2.875	12.5	21.8

248070 2004 PX_{31} 3 21.0 304°.62 4°.1/15.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
2 11	12 21.20	+ 7 26.3	2.157	2.971	12.7	20.5
2 21	12 18.77	+ 8 46.7	2.052	2.945	9.9	20.2
3 2	12 14.32	+10 17.7	1.971	2.920	6.8	20.0
3 12	12 8.30	+11 52.6	1.917	2.894	4.4	19.8
3 22	12 1.35	+13 23.2	1.892	2.869	4.8	19.8
4 1	11 54.29	+14 41.7	1.895	2.843	7.8	19.9
4 11	11 48.01	+15 41.8	1.924	2.818	11.1	20.1
4 21	11 43.22	+16 20.2	1.975	2.793	14.3	20.2