2020	α_{2000}	δ_{2000}	Δ	r	β	V
290369 2005 SK_{272}			2 29.9 221°.15	2°.9/ 3.9 17		
	h m	° ′			°	m
1 22	11 12.36	− 3 54.5	2.213	2.944	14.8	22.0
2 1	11 8.77	− 3 43.7	2.106	2.936	12.2	21.8
2 11	11 3.09	− 3 14.4	2.020	2.928	9.1	21.6
2 21	10 55.76	− 2 27.4	1.959	2.919	5.7	21.3
3 2	10 47.46	− 1 26.0	1.926	2.909	3.0	21.1
3 12	10 39.09	− 0 15.6	1.923	2.899	4.4	21.2
3 22	10 31.53	+ 0 57.2	1.948	2.889	7.9	21.4
4 1	10 25.58	+ 2 5.9	2.000	2.878	11.4	21.6
317620 2003 BL_{31}			2 29.9 311°.69	0°.6/29.5 17		
1 22	11 9.15	+ 5 17.8	1.591	2.390	17.0	19.8
2 1	11 7.18	+ 5 52.8	1.489	2.369	13.5	19.5
2 11	11 2.56	+ 6 47.0	1.407	2.348	9.3	19.2
2 21	10 55.70	+ 7 56.5	1.349	2.328	4.5	18.9
3 2	10 47.45	+ 9 14.3	1.317	2.308	1.0	18.6
3 12	10 39.02	+10 30.9	1.312	2.288	6.2	18.9
3 22	10 31.65	+11 37.4	1.333	2.269	11.2	19.1
4 1	10 26.43	+12 27.0	1.376	2.251	15.8	19.3
340706 2006 SU_{38}			2 29.9 178°.22	1°.2/28.8 17		
1 22	11 13.61	+10 15.0	2.518	3.294	12.1	20.7
2 1	11 9.33	+10 31.7	2.426	3.294	9.4	20.5
2 11	11 3.21	+10 55.7	2.358	3.295	6.4	20.3
2 21	10 55.71	+11 23.4	2.317	3.295	3.0	20.1
3 2	10 47.47	+11 50.7	2.306	3.295	1.4	20.0
3 12	10 39.32	+12 13.5	2.326	3.295	4.5	20.2
3 22	10 31.98	+12 28.6	2.374	3.295	7.8	20.4
4 1	10 26.11	+12 33.9	2.448	3.294	10.7	20.6
468875 2013 RS_{31}			2 29.9 101°.36	6°.1/ 7.7 18		
1 22	11 14.93	−13 27.7	2.439	3.101	15.2	21.2
2 1	11 10.38	−14 2.1	2.357	3.124	13.1	21.1
2 11	11 3.92	−14 16.9	2.294	3.146	10.6	21.0
2 21	10 56.04	−14 11.0	2.255	3.167	8.2	20.8
3 2	10 47.44	−13 44.9	2.243	3.188	6.4	20.8
3 12	10 38.97	−13 2.0	2.260	3.209	6.2	20.8
3 22	10 31.42	−12 7.3	2.304	3.229	7.8	20.9
4 1	10 25.41	−11 7.1	2.375	3.249	10.0	21.1
299301 2005 QX_{37}			2 29.9 249°.16	2°.9/27.0 18		
1 22	11 18.53	+17 34.9	2.825	3.600	10.9	20.1
2 1	11 13.07	+17 50.8	2.717	3.584	8.6	19.9
2 11	11 5.72	+18 8.6	2.634	3.568	6.0	19.7
2 21	10 56.93	+18 24.4	2.580	3.552	3.5	19.5
3 2	10 47.34	+18 34.0	2.558	3.535	3.2	19.5
3 12	10 37.75	+18 34.1	2.566	3.517	5.5	19.6
3 22	10 28.93	+18 22.8	2.604	3.499	8.3	19.8
4 1	10 21.56	+17 59.4	2.668	3.481	10.9	19.9
423741 2006 BH_{238}			2 29.9 74°.35	1°.2/28.9 17		
1 22	11 13.24	+ 8 28.2	1.937	2.724	14.8	21.9
2 1	11 9.60	+ 8 56.3	1.854	2.728	11.6	21.7
2 11	11 3.69	+ 9 36.0	1.793	2.732	7.8	21.5
2 21	10 56.02	+10 22.6	1.758	2.736	3.7	21.3
3 2	10 47.44	+11 10.4	1.751	2.741	1.5	21.1
3 12	10 38.98	+11 52.9	1.773	2.745	5.4	21.4
3 22	10 31.59	+12 25.3	1.822	2.749	9.4	21.6
4 1	10 26.06	+12 44.4	1.896	2.753	12.9	21.8
67734 2000 UE_{26}			2 29.9 254°.88	3°.6/26.9 18		
1 22	11 13.53	+12 4.1	1.587	2.396	16.5	18.8
2 1	11 10.51	+13 8.6	1.505	2.393	12.9	18.5
2 11	11 4.69	+14 26.7	1.444	2.389	8.8	18.3
2 21	10 56.65	+15 50.5	1.408	2.386	4.7	18.0
3 2	10 47.36	+17 10.0	1.400	2.382	4.2	18.0
3 12	10 38.13	+18 15.7	1.418	2.378	8.0	18.2
3 22	10 30.20	+19 1.0	1.462	2.375	12.3	18.4
4 1	10 24.55	+19 22.9	1.528	2.371	16.2	18.7
287707 2003 QT_{59}			2 29.9 215°.87	2°.2/28.1 17		
1 22	11 20.05	+12 11.8	2.218	2.992	13.5	21.6
2 1	11 14.80	+12 39.9	2.114	2.982	10.7	21.4
2 11	11 7.22	+13 15.8	2.035	2.972	7.3	21.1
2 21	10 57.77	+13 54.8	1.983	2.960	3.7	20.9
3 2	10 47.26	+14 31.4	1.962	2.947	2.5	20.8
3 12	10 36.71	+14 59.9	1.971	2.934	5.8	21.0
3 22	10 27.12	+15 16.6	2.008	2.919	9.6	21.2
4 1	10 19.36	+15 19.4	2.071	2.904	12.9	21.4
236839 2007 RN_{91}			2 29.9 341°.95	0°.2/ 1.2 17		
1 22	11 10.40	+ 5 0.1	1.871	2.655	15.3	21.0
2 1	11 7.56	+ 5 14.7	1.779	2.649	12.2	20.8
2 11	11 2.42	+ 5 43.6	1.708	2.644	8.4	20.6
2 21	10 55.47	+ 6 23.6	1.662	2.639	4.2	20.3
3 2	10 47.51	+ 7 9.6	1.644	2.635	0.4	20.0
3 12	10 39.58	+ 7 55.4	1.654	2.631	4.9	20.3
3 22	10 32.66	+ 8 35.0	1.690	2.628	9.2	20.6
4 1	10 27.58	+ 9 4.0	1.751	2.625	13.0	20.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
503747 2016 LV_{43}			2 29.9 154°.36	0°.7/28.9 17		
	h m	° ′			°	m
1 22	11 9.33	+ 4 33.8	2.793	3.553	11.4	21.6
2 1	11 5.84	+ 5 50.1	2.699	3.559	8.9	21.4
2 11	11 0.77	+ 7 19.4	2.631	3.565	6.0	21.2
2 21	10 54.52	+ 8 57.1	2.593	3.570	2.8	21.0
3 2	10 47.63	+10 37.7	2.585	3.575	1.0	20.9
3 12	10 40.78	+12 14.6	2.610	3.580	4.1	21.1
3 22	10 34.59	+13 42.5	2.666	3.584	7.2	21.3
4 1	10 29.62	+14 57.1	2.749	3.588	9.9	21.5
298769 2004 NE_{6}			2 29.9 242°.35	0°.2/ 1.1 17		
1 22	11 15.57	+ 3 40.3	1.838	2.609	16.1	22.1
2 1	11 11.87	+ 4 11.1	1.730	2.592	12.9	21.8
2 11	11 5.58	+ 4 59.9	1.643	2.575	9.0	21.5
2 21	10 57.12	+ 6 3.4	1.581	2.557	4.5	21.2
3 2	10 47.32	+ 7 15.8	1.547	2.538	0.5	20.9
3 12	10 37.32	+ 8 29.1	1.543	2.519	5.4	21.2
3 22	10 28.30	+ 9 35.4	1.566	2.498	10.2	21.4
4 1	10 21.28	+10 28.5	1.613	2.477	14.4	21.6
492649 2014 OY_{372}			2 29.9 227°.60	0°.5/29.5 18		
1 22	11 13.76	+ 4 49.8	1.732	2.514	16.5	21.6
2 1	11 10.48	+ 5 33.1	1.636	2.507	13.1	21.3
2 11	11 4.60	+ 6 34.7	1.562	2.499	9.0	21.1
2 21	10 56.61	+ 7 50.3	1.513	2.491	4.3	20.8
3 2	10 47.38	+ 9 12.5	1.492	2.483	0.9	20.5
3 12	10 38.11	+10 32.2	1.500	2.474	5.8	20.8
3 22	10 29.94	+11 41.3	1.534	2.465	10.5	21.1
4 1	10 23.85	+12 34.1	1.592	2.455	14.6	21.3
193911 2001 QW_{252}			3 1.0 240°.52	1°.6/28.7 18		
1 22	11 13.82	+ 6 41.5	1.632	2.425	16.9	20.8
2 1	11 10.75	+ 7 37.3	1.537	2.414	13.4	20.5
2 11	11 4.93	+ 8 52.1	1.463	2.404	9.1	20.2
2 21	10 56.83	+10 20.2	1.414	2.393	4.3	19.9
3 2	10 47.36	+11 52.9	1.392	2.381	2.0	19.7
3 12	10 37.80	+13 19.7	1.399	2.369	6.7	20.0
3 22	10 29.41	+14 31.9	1.431	2.357	11.5	20.2
4 1	10 23.23	+15 23.7	1.487	2.344	15.8	20.5
291049 2005 YC_{54}			3 1.0 271°.73	1°.8/ 2.6 17		
1 22	11 12.53	+ 0 53.3	2.013	2.773	15.2	21.1
2 1	11 9.12	+ 0 54.8	1.910	2.763	12.3	20.9
2 11	11 3.46	+ 1 11.9	1.829	2.752	8.9	20.6
2 21	10 55.99	+ 1 43.1	1.772	2.742	5.0	20.4
3 2	10 47.46	+ 2 25.0	1.743	2.732	1.8	20.1
3 12	10 38.88	+ 3 11.9	1.743	2.722	4.5	20.3
3 22	10 31.21	+ 3 58.1	1.771	2.712	8.6	20.5
4 1	10 25.28	+ 4 38.2	1.824	2.701	12.4	20.7
238781 2005 JD_{147}			3 1.0 320°.79	4°.9/24.3 17		
1 22	11 9.01	+17 9.4	2.038	2.850	13.3	20.3
2 1	11 6.39	+18 41.1	1.954	2.843	10.3	20.1
2 11	11 1.59	+20 20.7	1.895	2.837	7.3	19.9
2 21	10 55.06	+22 0.3	1.863	2.830	5.1	19.7
3 2	10 47.57	+23 30.7	1.859	2.824	5.7	19.8
3 12	10 40.10	+24 44.0	1.884	2.818	8.4	19.9
3 22	10 33.59	+25 35.3	1.934	2.813	11.5	20.1
4 1	10 28.81	+26 2.8	2.006	2.807	14.4	20.3
385052 2012 UM_{35}			3 1.0 102°.93	3°.2/ 4.8 17		
1 22	11 9.78	− 5 43.4	2.515	3.233	13.6	21.1
2 1	11 6.35	− 5 40.0	2.422	3.241	11.2	21.0
2 11	11 1.20	− 5 20.0	2.351	3.250	8.5	20.8
2 21	10 54.75	− 4 44.3	2.306	3.258	5.6	20.6
3 2	10 47.62	− 3 55.4	2.288	3.266	3.4	20.5
3 12	10 40.56	− 2 57.8	2.300	3.274	4.1	20.6
3 22	10 34.26	− 1 56.7	2.341	3.282	6.8	20.7
4 1	10 29.32	− 0 57.4	2.409	3.290	9.6	20.9
174299 2002 TQ_{19}			3 1.0 331°.71	2°.2/28.4 18		
1 22	11 13.47	+10 12.1	1.540	2.346	17.1	20.2
2 1	11 10.53	+10 43.3	1.455	2.341	13.4	19.9
2 11	11 4.76	+11 27.7	1.392	2.336	9.1	19.7
2 21	10 56.72	+12 19.5	1.352	2.331	4.4	19.4
3 2	10 47.41	+13 10.9	1.339	2.327	2.6	19.2
3 12	10 38.16	+13 53.5	1.353	2.323	6.9	19.5
3 22	10 30.23	+14 21.5	1.392	2.320	11.6	19.8
4 1	10 24.63	+14 31.4	1.453	2.316	15.8	20.0
434810 2006 RX_{84}			3 1.0 210°.33	1°.5/ 2.8 17		
1 22	11 9.77	− 0 30.1	2.747	3.486	12.1	22.0
2 1	11 6.26	− 0 9.3	2.642	3.481	9.7	21.9
2 11	11 1.12	+ 0 24.9	2.559	3.476	7.0	21.7
2 21	10 54.73	+ 1 10.8	2.503	3.471	4.0	21.5
3 2	10 47.64	+ 2 5.2	2.477	3.465	1.5	21.3
3 12	10 40.55	+ 3 3.6	2.482	3.459	3.5	21.4
3 22	10 34.10	+ 4 1.1	2.516	3.453	6.6	21.6
4 1	10 28.89	+ 4 53.5	2.577	3.446	9.5	21.8

29189 Udinsk 3 1.0 136°.46 3°.6/25.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 13.07	+18 50.3	2.884	3.673	10.4	18.7
2 1	11 8.66	+19 44.1	2.811	3.685	8.1	18.5
2 11	11 2.62	+20 40.2	2.763	3.697	5.7	18.4
2 21	10 55.39	+21 33.5	2.743	3.709	3.8	18.3
3 2	10 47.58	+22 19.1	2.754	3.720	4.0	18.3
3 12	10 39.90	+22 52.9	2.795	3.730	5.9	18.5
3 22	10 33.00	+23 12.9	2.864	3.741	8.3	18.6
4 1	10 27.43	+23 18.2	2.958	3.750	10.5	18.8

303287 2004 RQ_{336} 3 1.0 335°.92 3°.7/ 3.6 18

1 22	11 9.28	− 2 8.3	1.274	2.063	20.9	20.3
2 1	11 7.84	− 2 22.0	1.186	2.053	17.3	20.0
2 11	11 3.31	− 2 9.9	1.117	2.044	12.8	19.7
2 21	10 56.17	− 1 32.1	1.067	2.036	7.8	19.4
3 2	10 47.47	− 0 32.3	1.042	2.028	3.8	19.2
3 12	10 38.68	+ 0 40.7	1.041	2.022	6.3	19.3
3 22	10 31.29	+ 1 56.3	1.064	2.016	11.5	19.6
4 1	10 26.50	+ 3 3.9	1.108	2.011	16.4	19.8

428966 2008 YD_{133} 3 1.0 54°.35 2°.2/27.8 17

1 22	11 11.16	+11 1.9	2.057	2.852	13.8	20.8
2 1	11 7.82	+11 48.4	1.981	2.861	10.7	20.6
2 11	11 2.38	+12 44.4	1.929	2.871	7.2	20.4
2 21	10 55.38	+13 44.4	1.903	2.881	3.6	20.2
3 2	10 47.59	+14 42.0	1.905	2.890	2.6	20.2
3 12	10 39.95	+15 31.0	1.936	2.901	5.8	20.4
3 22	10 33.33	+16 6.8	1.995	2.911	9.3	20.6
4 1	10 28.41	+16 27.1	2.077	2.921	12.5	20.9

273682 2007 EN_{16} 3 1.0 291°.44 5°.2/25.9 17

1 22	11 17.61	+19 39.9	1.831	2.636	14.8	20.2
2 1	11 13.49	+20 19.5	1.739	2.622	11.8	20.0
2 11	11 6.64	+21 2.5	1.669	2.607	8.4	19.8
2 21	10 57.60	+21 41.8	1.625	2.593	5.7	19.6
3 2	10 47.33	+22 9.5	1.609	2.579	5.7	19.5
3 12	10 37.09	+22 19.2	1.620	2.565	8.6	19.7
3 22	10 28.07	+22 8.2	1.656	2.551	12.3	19.9
4 1	10 21.26	+21 36.6	1.715	2.537	15.7	20.0

184064 Miner 3 1.0 101°.49 0°.8/29.3 18

1 22	11 15.92	+ 7 14.3	1.909	2.687	15.3	20.8
2 1	11 11.61	+ 7 45.0	1.836	2.705	11.9	20.6
2 11	11 4.98	+ 8 28.0	1.785	2.722	8.1	20.4
2 21	10 56.64	+ 9 18.6	1.761	2.739	3.8	20.2
3 2	10 47.46	+10 10.9	1.765	2.755	1.1	20.0
3 12	10 38.52	+10 58.2	1.799	2.771	5.2	20.3
3 22	10 30.76	+11 35.5	1.860	2.787	9.2	20.6
4 1	10 24.94	+11 59.7	1.946	2.802	12.7	20.8

68356 2001 NH_{12} 3 1.0 286°.63 1°.9/ 2.1 18

1 22	11 16.56	+ 3 0.1	1.425	2.210	19.2	19.5
2 1	11 13.49	+ 2 41.2	1.323	2.192	15.7	19.2
2 11	11 7.20	+ 2 39.4	1.241	2.173	11.3	18.9
2 21	10 58.13	+ 2 53.7	1.180	2.154	6.2	18.5
3 2	10 47.26	+ 3 20.4	1.146	2.135	1.9	18.2
3 12	10 36.09	+ 3 53.2	1.137	2.116	6.2	18.4
3 22	10 26.20	+ 4 24.6	1.153	2.098	11.7	18.6
4 1	10 18.90	+ 4 48.1	1.192	2.079	16.8	18.9

359037 2008 WW_{98} 3 1.0 12°.99 4°.9/ 3.9 18

1 22	11 12.31	− 2 3.9	1.161	1.953	22.4	20.4
2 1	11 10.35	− 2 52.0	1.089	1.955	18.5	20.1
2 11	11 5.03	− 3 16.2	1.034	1.959	13.9	19.8
2 21	10 56.98	− 3 15.4	0.999	1.964	8.8	19.6
3 2	10 47.41	− 2 51.6	0.987	1.970	5.1	19.4
3 12	10 37.99	− 2 11.9	0.998	1.977	6.9	19.5
3 22	10 30.26	− 1 25.4	1.033	1.985	11.7	19.8
4 1	10 25.39	− 0 41.6	1.088	1.994	16.4	20.1

288620 2004 NV_{16} 3 1.0 223°.05 0°.3/ 1.3 17

1 22	11 13.06	+ 3 34.0	2.413	3.170	13.1	22.6
2 1	11 9.14	+ 4 3.3	2.304	3.159	10.4	22.4
2 11	11 3.26	+ 4 46.0	2.219	3.148	7.2	22.2
2 21	10 55.85	+ 5 39.3	2.161	3.136	3.6	21.9
3 2	10 47.54	+ 6 38.8	2.133	3.124	0.4	21.6
3 12	10 39.17	+ 7 38.9	2.135	3.111	4.2	21.9
3 22	10 31.56	+ 8 34.3	2.167	3.098	7.9	22.1
4 1	10 25.41	+ 9 20.5	2.225	3.084	11.2	22.3

17774 1998 ER_{14} 3 1.0 216°.33 2°.8/27.7 18

1 22	11 17.55	+10 47.7	1.723	2.515	16.1	18.6
2 1	11 13.55	+11 43.1	1.629	2.508	12.7	18.3
2 11	11 6.77	+12 52.2	1.558	2.500	8.6	18.0
2 21	10 57.72	+14 8.5	1.513	2.490	4.4	17.8
3 2	10 47.33	+15 23.2	1.496	2.481	3.3	17.7
3 12	10 36.90	+16 27.1	1.507	2.470	7.3	17.9
3 22	10 27.67	+17 13.8	1.545	2.459	11.7	18.1
4 1	10 20.68	+17 39.7	1.606	2.446	15.7	18.3

453354 2008 YW_{165} 3 1.0 104°.96 0°.9/29.3 18

1 22	11 16.90	+ 6 22.5	1.704	2.486	16.7	21.5
2 1	11 12.65	+ 7 2.1	1.634	2.504	13.1	21.3
2 11	11 5.84	+ 7 56.7	1.585	2.523	8.8	21.1
2 21	10 57.10	+ 9 0.9	1.562	2.540	4.2	20.9
3 2	10 47.42	+10 7.2	1.568	2.558	1.2	20.7
3 12	10 38.02	+11 7.7	1.602	2.575	5.7	21.0
3 22	10 29.97	+11 56.3	1.663	2.591	10.0	21.3
4 1	10 24.08	+12 29.2	1.748	2.607	13.7	21.6

186093 2001 SD_{313} 3 1.0 191°.14 2°.3/27.7 16

1 22	11 13.70	+10 44.4	2.136	2.923	13.6	21.2
2 1	11 9.85	+11 38.7	2.046	2.922	10.6	21.0
2 11	11 3.83	+12 43.6	1.980	2.920	7.1	20.7
2 21	10 56.14	+13 53.6	1.941	2.918	3.6	20.5
3 2	10 47.52	+15 2.0	1.931	2.916	2.7	20.4
3 12	10 38.94	+16 1.8	1.951	2.913	6.0	20.6
3 22	10 31.32	+16 48.1	1.998	2.910	9.6	20.9
4 1	10 25.41	+17 17.8	2.070	2.906	12.8	21.1

341683 2007 VS_{107} 3 1.0 231°.49 3°.9/ 5.3 17

1 22	11 9.95	− 7 0.9	2.369	3.084	14.4	21.1
2 1	11 6.70	− 7 7.0	2.269	3.083	12.0	20.9
2 11	11 1.59	− 6 55.1	2.189	3.082	9.3	20.8
2 21	10 55.03	− 6 25.5	2.133	3.081	6.3	20.6
3 2	10 47.66	− 5 40.2	2.106	3.080	4.1	20.4
3 12	10 40.29	− 4 43.4	2.107	3.078	4.7	20.5
3 22	10 33.69	− 3 40.8	2.136	3.077	7.3	20.6
4 1	10 28.54	− 2 38.1	2.192	3.076	10.3	20.8

518167 2016 HZ_{24} 3 1.0 92°.62 6°.8/22.9 18

1 22	11 15.80	+25 42.7	2.109	2.914	13.1	21.1
2 1	11 11.53	+26 58.4	2.049	2.925	10.5	21.0
2 11	11 4.93	+28 12.2	2.012	2.936	8.2	20.8
2 21	10 56.62	+29 16.0	2.002	2.947	6.9	20.8
3 2	10 47.50	+30 2.3	2.020	2.958	7.5	20.8
3 12	10 38.63	+30 26.2	2.064	2.969	9.5	21.0
3 22	10 30.97	+30 26.5	2.133	2.979	12.0	21.1
4 1	10 25.26	+30 4.5	2.224	2.990	14.3	21.3

496269 2012 SS_{20} 3 1.0 164°.54 0°.7/ 2.1 17

1 22	11 10.35	+ 1 7.8	3.314	4.048	10.3	23.1
2 1	11 6.34	+ 1 42.9	3.215	4.055	8.2	22.9
2 11	11 0.97	+ 2 28.9	3.141	4.061	5.7	22.8
2 21	10 54.61	+ 3 23.5	3.096	4.067	3.0	22.6
3 2	10 47.72	+ 4 23.3	3.082	4.072	0.7	22.4
3 12	10 40.87	+ 5 24.5	3.100	4.076	3.0	22.6
3 22	10 34.59	+ 6 23.0	3.148	4.080	5.7	22.8
4 1	10 29.34	+ 7 15.5	3.225	4.083	8.1	23.0

427528 2002 OL_{7} 3 1.0 190°.29 3°.9/ 5.4 17

1 22	11 12.51	− 7 20.1	2.662	3.361	13.3	21.6
2 1	11 8.47	− 7 34.5	2.556	3.360	11.2	21.5
2 11	11 2.68	− 7 33.3	2.473	3.358	8.7	21.3
2 21	10 55.53	− 7 16.3	2.414	3.356	6.0	21.1
3 2	10 47.62	− 6 45.0	2.384	3.354	4.1	21.0
3 12	10 39.68	− 6 2.7	2.383	3.351	4.5	21.0
3 22	10 32.45	− 5 13.8	2.412	3.348	6.9	21.1
4 1	10 26.55	− 4 23.3	2.467	3.344	9.6	21.3

266605 2008 KV_{20} 3 1.0 132°.03 2°.9/27.1 18

1 22	11 14.00	+12 36.4	2.077	2.869	13.7	21.3
2 1	11 10.06	+13 34.7	2.000	2.878	10.7	21.1
2 11	11 3.94	+14 41.9	1.946	2.887	7.2	20.9
2 21	10 56.17	+15 51.8	1.920	2.896	3.8	20.7
3 2	10 47.56	+16 57.1	1.922	2.904	3.3	20.7
3 12	10 39.10	+17 51.4	1.954	2.911	6.4	20.9
3 22	10 31.68	+18 30.2	2.013	2.919	9.8	21.1
4 1	10 26.04	+18 51.4	2.096	2.926	12.9	21.3

283207 2010 HH_{79} 3 1.0 201°.76 1°.3/28.3 17

1 22	11 10.00	+ 8 43.9	2.741	3.515	11.2	21.6
2 1	11 6.46	+ 9 33.9	2.643	3.512	8.8	21.4
2 11	11 1.27	+10 33.3	2.571	3.508	5.9	21.2
2 21	10 54.83	+11 38.3	2.526	3.504	2.8	21.0
3 2	10 47.71	+12 43.9	2.512	3.500	1.6	20.9
3 12	10 40.59	+13 44.8	2.529	3.496	4.5	21.1
3 22	10 34.15	+14 36.7	2.575	3.491	7.5	21.3
4 1	10 28.97	+15 16.6	2.647	3.485	10.3	21.5

435284 2007 TE_{361} 3 1.0 65°.41 2°.0/ 3.2 18

1 22	11 10.56	− 1 12.3	2.205	2.953	14.4	21.6
2 1	11 7.18	− 1 1.4	2.122	2.966	11.6	21.4
2 11	11 1.87	− 0 34.5	2.062	2.980	8.4	21.2
2 21	10 55.14	+ 0 6.5	2.027	2.993	4.9	21.0
3 2	10 47.68	+ 0 57.7	2.020	3.007	2.1	20.9
3 12	10 40.35	+ 1 53.7	2.043	3.021	4.0	21.0
3 22	10 33.93	+ 2 48.8	2.093	3.035	7.4	21.3
4 1	10 29.06	+ 3 38.1	2.170	3.049	10.6	21.5

209598 2004 XC_{177} 3 1.0 141.°61 3.°1/27.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 16.83	+12 24.2	1.714	2.512	15.9	20.9
2 1	11 12.78	+13 13.1	1.636	2.518	12.5	20.7
2 11	11 6.07	+14 12.4	1.581	2.523	8.4	20.5
2 21	10 57.30	+15 15.3	1.552	2.529	4.4	20.3
3 2	10 47.45	+16 13.6	1.550	2.534	3.5	20.2
3 12	10 37.77	+16 59.7	1.577	2.538	7.2	20.4
3 22	10 29.41	+17 28.5	1.629	2.543	11.2	20.7
4 1	10 23.26	+17 38.1	1.705	2.547	14.9	20.9

463303 2012 HY_{82} 3 1.0 226.°96 7.°0/21.7 17

1 22	11 13.15	+23 31.8	2.054	2.865	13.2	20.5
2 1	11 9.77	+25 21.9	1.977	2.859	10.6	20.3
2 11	11 3.99	+27 15.1	1.925	2.853	8.2	20.2
2 21	10 56.31	+29 1.7	1.900	2.847	7.0	20.1
3 2	10 47.55	+30 31.9	1.903	2.840	7.9	20.1
3 12	10 38.81	+31 38.0	1.933	2.833	10.3	20.3
3 22	10 31.11	+32 16.6	1.987	2.826	13.0	20.4
4 1	10 25.34	+32 27.8	2.063	2.819	15.6	20.6

119673 2001 XN_{87} 3 1.0 148.°27 5.°5/23.7 18

1 22	11 15.90	+22 22.0	2.348	3.145	12.2	19.9
2 1	11 11.38	+23 40.1	2.278	3.154	9.6	19.7
2 11	11 4.75	+24 59.3	2.234	3.163	7.2	19.6
2 21	10 56.55	+26 12.3	2.217	3.172	5.6	19.5
3 2	10 47.56	+27 11.9	2.230	3.179	6.1	19.5
3 12	10 38.72	+27 53.0	2.271	3.187	8.2	19.7
3 22	10 30.91	+28 13.1	2.339	3.193	10.7	19.8
4 1	10 24.82	+28 12.6	2.429	3.200	13.1	20.0

328741 2009 UM_{29} 3 1.0 234.°74 1.°4/28.7 17

1 22	11 14.22	+ 9 2.7	2.181	2.960	13.6	21.7
2 1	11 10.30	+ 9 36.0	2.079	2.950	10.7	21.5
2 11	11 4.20	+10 20.1	2.001	2.939	7.3	21.3
2 21	10 56.38	+11 10.9	1.949	2.927	3.5	21.0
3 2	10 47.57	+12 2.7	1.927	2.916	1.7	20.9
3 12	10 38.71	+12 49.5	1.934	2.904	5.3	21.1
3 22	10 30.74	+13 26.3	1.970	2.891	9.1	21.3
4 1	10 24.45	+13 49.9	2.030	2.878	12.6	21.5

325343 2008 KU_{9} 3 1.0 275.°05 1.°7/ 2.6 17

1 22	11 12.39	+ 0 21.4	1.965	2.725	15.6	21.5
2 1	11 9.24	+ 0 32.5	1.851	2.703	12.7	21.2
2 11	11 3.73	+ 1 1.3	1.758	2.682	9.2	21.0
2 21	10 56.26	+ 1 46.4	1.689	2.660	5.1	20.7
3 2	10 47.57	+ 2 43.9	1.649	2.638	1.7	20.4
3 12	10 38.67	+ 3 47.7	1.637	2.615	4.8	20.6
3 22	10 30.62	+ 4 50.6	1.652	2.593	9.1	20.8
4 1	10 24.35	+ 5 46.3	1.693	2.570	13.2	21.0

379070 2008 WS_{103} 3 1.0 105.°07 4.°3/ 5.8 17

1 22	11 11.48	− 8 26.8	2.320	3.025	14.9	21.9
2 1	11 7.85	− 8 31.1	2.232	3.038	12.5	21.7
2 11	11 2.33	− 8 16.3	2.164	3.051	9.7	21.5
2 21	10 55.38	− 7 42.6	2.121	3.063	6.7	21.4
3 2	10 47.69	− 6 52.3	2.105	3.075	4.5	21.3
3 12	10 40.09	− 5 50.0	2.118	3.088	4.9	21.3
3 22	10 33.35	− 4 41.8	2.160	3.099	7.3	21.5
4 1	10 28.13	− 3 33.8	2.228	3.111	10.2	21.7

300190 2006 WV_{75} 3 1.0 239.°52 2.°5/27.0 17

1 22	11 11.41	+13 54.8	2.709	3.495	11.0	21.1
2 1	11 7.63	+14 37.9	2.610	3.486	8.6	20.9
2 11	11 2.12	+15 27.1	2.536	3.475	5.8	20.7
2 21	10 55.28	+16 18.0	2.490	3.465	3.2	20.5
3 2	10 47.70	+17 5.6	2.474	3.454	2.8	20.5
3 12	10 40.12	+17 45.2	2.488	3.443	5.3	20.6
3 22	10 33.24	+18 13.4	2.530	3.432	8.2	20.8
4 1	10 27.68	+18 28.2	2.597	3.421	10.9	20.9

139169 2001 FH_{124} 3 1.0 276.°25 2.°7/ 3.0 18

1 22	11 14.70	− 0 5.5	1.726	2.488	17.3	20.4
2 1	11 11.33	− 0 20.4	1.623	2.476	14.2	20.1
2 11	11 5.30	− 0 17.9	1.541	2.463	10.4	19.9
2 21	10 57.06	+ 0 1.5	1.483	2.451	6.1	19.6
3 2	10 47.49	+ 0 34.9	1.451	2.438	2.7	19.3
3 12	10 37.79	+ 1 16.6	1.447	2.425	5.3	19.5
3 22	10 29.15	+ 2 0.1	1.469	2.413	9.8	19.7
4 1	10 22.61	+ 2 38.8	1.516	2.400	14.0	19.9

141261 2001 YN_{21} 3 1.0 86.°08 4.°1/25.6 18

1 22	11 13.69	+18 52.6	2.350	3.148	12.2	20.2
2 1	11 9.56	+19 40.4	2.277	3.157	9.5	20.0
2 11	11 3.46	+20 30.8	2.228	3.165	6.7	19.8
2 21	10 55.91	+21 18.0	2.207	3.174	4.4	19.7
3 2	10 47.64	+21 56.3	2.214	3.183	4.6	19.7
3 12	10 39.55	+22 20.9	2.251	3.192	6.8	19.9
3 22	10 32.44	+22 29.6	2.314	3.200	9.6	20.1
4 1	10 26.94	+22 21.9	2.401	3.209	12.2	20.3

11180 1998 FU_{117} 3 1.0 144.°10 0.°2/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 14.66	+ 5 4.4	2.141	2.908	14.2	18.6
2 1	11 10.51	+ 5 16.7	2.052	2.913	11.3	18.4
2 11	11 4.24	+ 5 41.0	1.986	2.917	7.8	18.2
2 21	10 56.34	+ 6 14.4	1.946	2.922	3.8	17.9
3 2	10 47.59	+ 6 52.5	1.935	2.926	0.4	17.7
3 12	10 38.93	+ 7 30.2	1.954	2.930	4.4	18.0
3 22	10 31.25	+ 8 2.7	2.001	2.934	8.3	18.2
4 1	10 25.27	+ 8 26.3	2.074	2.938	11.7	18.4

103013 1999 XV_{103} 3 1.0 14.°30 2.°6/ 2.7 18

1 22	11 14.93	+ 0 59.1	1.288	2.078	20.7	18.8
2 1	11 12.17	+ 0 42.2	1.209	2.078	16.8	18.5
2 11	11 6.18	+ 0 46.6	1.148	2.080	12.1	18.2
2 21	10 57.56	+ 1 11.1	1.109	2.081	6.8	17.9
3 2	10 47.45	+ 1 51.2	1.095	2.084	2.6	17.7
3 12	10 37.43	+ 2 38.8	1.106	2.086	6.1	17.9
3 22	10 28.99	+ 3 25.4	1.141	2.089	11.4	18.2
4 1	10 23.26	+ 4 3.4	1.198	2.092	16.2	18.5

403838 2011 UC_{254} 3 1.0 219.°79 1.°3/ 2.0 17

1 22	11 16.33	+ 2 30.2	1.691	2.462	17.3	22.1
2 1	11 12.57	+ 2 33.8	1.597	2.457	13.9	21.9
2 11	11 6.10	+ 2 54.5	1.523	2.452	9.9	21.6
2 21	10 57.42	+ 3 30.1	1.474	2.447	5.2	21.3
3 2	10 47.47	+ 4 15.9	1.452	2.442	1.3	21.0
3 12	10 37.50	+ 5 5.1	1.458	2.436	5.3	21.3
3 22	10 28.70	+ 5 50.7	1.490	2.430	10.0	21.5
4 1	10 22.09	+ 6 26.9	1.547	2.424	14.2	21.8

467441 2006 AV_{54} 3 1.0 84.°16 0.°1/29.9 17

1 22	11 11.54	+ 4 13.2	1.940	2.716	15.1	21.8
2 1	11 8.30	+ 4 48.6	1.856	2.723	12.0	21.6
2 11	11 2.85	+ 5 39.5	1.795	2.729	8.2	21.4
2 21	10 55.71	+ 6 41.8	1.759	2.736	4.0	21.2
3 2	10 47.67	+ 7 49.6	1.752	2.742	0.5	20.9
3 12	10 39.75	+ 8 55.6	1.773	2.749	4.8	21.3
3 22	10 32.85	+ 9 53.5	1.822	2.756	8.9	21.5
4 1	10 27.74	+10 38.7	1.896	2.762	12.5	21.7

412656 2014 OU_{192} 3 1.0 181.°53 1.°4/28.6 18

1 22	11 15.86	+ 8 23.2	2.107	2.883	14.1	22.0
2 1	11 11.57	+ 9 7.5	2.016	2.885	11.1	21.8
2 11	11 5.04	+10 3.8	1.948	2.885	7.5	21.6
2 21	10 56.77	+11 7.3	1.907	2.885	3.6	21.3
3 2	10 47.56	+12 11.7	1.896	2.885	1.8	21.2
3 12	10 38.39	+13 10.0	1.915	2.883	5.4	21.5
3 22	10 30.21	+13 57.2	1.961	2.881	9.3	21.7
4 1	10 23.81	+14 29.6	2.033	2.878	12.7	21.9

124709 2001 SA_{150} 3 1.0 106.°43 1.°4/28.9 18

1 22	11 19.62	+10 22.5	2.010	2.787	14.7	21.0
2 1	11 14.37	+10 36.5	1.937	2.805	11.5	20.8
2 11	11 6.81	+10 58.9	1.886	2.822	7.7	20.6
2 21	10 57.55	+11 25.2	1.862	2.839	3.7	20.4
3 2	10 47.49	+11 50.3	1.867	2.856	1.7	20.2
3 12	10 37.70	+12 9.4	1.902	2.872	5.3	20.5
3 22	10 29.13	+12 19.0	1.965	2.888	9.1	20.8
4 1	10 22.52	+12 17.4	2.054	2.903	12.4	21.0

100742 1998 DW_{25} 3 1.0 297.°04 1.°4/28.9 18

1 22	11 13.44	+ 8 12.5	1.508	2.311	17.5	20.8
2 1	11 10.77	+ 8 39.1	1.411	2.294	13.9	20.5
2 11	11 5.17	+ 9 21.7	1.335	2.278	9.6	20.2
2 21	10 57.10	+10 15.4	1.282	2.261	4.6	19.9
3 2	10 47.51	+11 12.8	1.255	2.245	1.8	19.7
3 12	10 37.77	+12 4.9	1.255	2.229	6.8	19.9
3 22	10 29.26	+12 44.3	1.280	2.213	12.0	20.2
4 1	10 23.14	+13 5.9	1.327	2.197	16.5	20.4

205055 1999 GV_{46} 3 1.0 340.°87 4.°0/26.3 17

1 22	11 9.46	+14 46.2	1.795	2.609	14.7	19.2
2 1	11 7.05	+15 43.5	1.709	2.600	11.5	18.9
2 11	11 2.22	+16 49.9	1.646	2.591	7.9	18.7
2 21	10 55.49	+17 58.4	1.609	2.584	4.6	18.5
3 2	10 47.70	+19 0.8	1.599	2.577	4.5	18.5
3 12	10 39.96	+19 49.3	1.615	2.570	7.7	18.6
3 22	10 33.30	+20 18.9	1.657	2.564	11.5	18.8
4 1	10 28.58	+20 27.6	1.722	2.559	14.9	19.1

186188 2001 VU_{48} 3 1.0 87.°03 7.°2/22.8 18

1 22	11 18.01	+24 54.5	1.933	2.739	14.1	19.6
2 1	11 13.34	+26 28.8	1.887	2.765	11.3	19.5
2 11	11 6.19	+28 1.0	1.866	2.790	8.6	19.4
2 21	10 57.25	+29 21.6	1.870	2.816	7.2	19.3
3 2	10 47.53	+30 22.2	1.903	2.841	7.9	19.4
3 12	10 38.21	+30 57.6	1.962	2.865	10.0	19.6
3 22	10 30.29	+31 6.7	2.046	2.889	12.5	19.8
4 1	10 24.50	+30 51.8	2.150	2.912	14.8	20.0

131838 2002 AG_{115} 3 1.0 288°.53 3°.2/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 12.62	+10 47.4	1.501	2.312	17.2	19.6
2 1	11 10.10	+11 47.5	1.411	2.300	13.5	19.3
2 11	11 4.66	+13 3.6	1.343	2.289	9.2	19.1
2 21	10 56.82	+14 28.5	1.299	2.278	4.7	18.8
3 2	10 47.55	+15 52.1	1.282	2.267	3.8	18.7
3 12	10 38.22	+17 3.6	1.291	2.255	8.1	18.9
3 22	10 30.18	+17 55.2	1.325	2.244	12.8	19.1
4 1	10 24.52	+18 22.8	1.381	2.234	17.0	19.3

36297 2000 JM_5 3 1.0 87°.82 0°.5/29.5 18

1 22	11 13.75	+ 7 3.6	2.344	3.114	13.0	19.5
2 1	11 9.45	+ 7 29.2	2.272	3.136	10.2	19.3
2 11	11 3.31	+ 8 4.7	2.223	3.158	6.9	19.1
2 21	10 55.81	+ 8 46.4	2.202	3.179	3.2	18.9
3 2	10 47.70	+ 9 29.5	2.210	3.200	0.8	18.8
3 12	10 39.78	+10 9.3	2.248	3.221	4.3	19.1
3 22	10 32.81	+10 41.7	2.315	3.242	7.7	19.3
4 1	10 27.39	+11 4.1	2.408	3.262	10.6	19.5

207077 2004 XP_{140} 3 1.0 345°.85 0°.4/ 1.3 18

1 22	11 8.70	+ 3 44.4	1.250	2.062	20.0	20.1
2 1	11 7.41	+ 4 1.9	1.168	2.054	16.0	19.8
2 11	11 3.03	+ 4 41.8	1.104	2.047	11.2	19.5
2 21	10 56.08	+ 5 40.7	1.062	2.041	5.6	19.1
3 2	10 47.64	+ 6 50.8	1.045	2.036	0.6	18.7
3 12	10 39.21	+ 8 1.5	1.052	2.032	6.4	19.1
3 22	10 32.22	+ 9 2.8	1.082	2.029	12.1	19.4
4 1	10 27.84	+ 9 47.0	1.134	2.027	17.0	19.7

456641 2007 QL_9 3 1.0 147°.13 0°.4/ 1.5 18

1 22	11 16.87	+ 3 13.0	2.089	2.846	14.8	22.9
2 1	11 12.26	+ 3 40.8	2.004	2.858	11.8	22.7
2 11	11 5.44	+ 4 23.4	1.941	2.869	8.2	22.5
2 21	10 56.94	+ 5 17.2	1.905	2.879	4.1	22.3
3 2	10 47.57	+ 6 17.1	1.898	2.889	0.5	22.0
3 12	10 38.33	+ 7 16.6	1.922	2.898	4.5	22.3
3 22	10 30.14	+ 8 9.9	1.974	2.906	8.5	22.6
4 1	10 23.74	+ 8 52.7	2.052	2.913	11.9	22.8

127944 2003 HN_4 3 1.0 160°.15 5°.8/22.6 18

1 22	11 16.60	+26 7.4	2.734	3.524	10.9	20.7
2 1	11 11.67	+27 22.3	2.664	3.532	8.7	20.6
2 11	11 4.84	+28 35.5	2.621	3.539	6.8	20.4
2 21	10 56.58	+29 40.6	2.606	3.546	5.8	20.4
3 2	10 47.61	+30 31.5	2.620	3.552	6.3	20.4
3 12	10 38.78	+31 4.1	2.663	3.557	8.1	20.5
3 22	10 30.86	+31 16.6	2.732	3.562	10.1	20.7
4 1	10 24.49	+31 9.8	2.824	3.566	12.1	20.8

110700 2001 TZ_{215} 3 1.0 257°.21 0°.2/29.9 18

1 22	11 17.97	+ 7 33.9	1.872	2.649	15.6	20.0
2 1	11 13.55	+ 7 28.3	1.777	2.644	12.4	19.8
2 11	11 6.58	+ 7 33.0	1.705	2.640	8.5	19.6
2 21	10 57.60	+ 7 45.1	1.659	2.636	4.2	19.3
3 2	10 47.50	+ 8 0.5	1.641	2.631	0.5	19.0
3 12	10 37.43	+ 8 14.1	1.651	2.627	5.2	19.3
3 22	10 28.50	+ 8 21.8	1.690	2.623	9.5	19.6
4 1	10 21.61	+ 8 20.6	1.752	2.618	13.4	19.8

410425 2008 AH_{91} 3 1.0 46°.82 3°.6/ 3.7 18

1 22	11 14.43	− 2 4.6	1.567	2.330	18.7	21.5
2 1	11 11.13	− 2 25.8	1.486	2.336	15.4	21.2
2 11	11 5.11	− 2 26.6	1.425	2.343	11.4	21.0
2 21	10 56.92	− 2 7.4	1.386	2.350	7.0	20.8
3 2	10 47.57	− 1 31.4	1.373	2.357	3.7	20.6
3 12	10 38.34	− 0 45.0	1.387	2.365	5.6	20.7
3 22	10 30.42	+ 0 4.6	1.426	2.372	9.8	21.0
4 1	10 24.75	+ 0 50.0	1.490	2.380	13.8	21.2

196894 2003 TL_3 3 1.0 143°.12 1°.2/28.8 17

1 22	11 12.59	+ 8 28.3	2.326	3.103	12.9	21.2
2 1	11 8.73	+ 9 6.9	2.240	3.109	10.1	21.0
2 11	11 2.94	+ 9 55.5	2.178	3.115	6.8	20.8
2 21	10 55.71	+10 50.1	2.143	3.121	3.2	20.5
3 2	10 47.72	+11 45.3	2.138	3.127	1.5	20.4
3 12	10 39.82	+12 35.5	2.162	3.132	4.8	20.7
3 22	10 32.80	+13 16.1	2.215	3.137	8.3	20.9
4 1	10 27.31	+13 44.4	2.294	3.141	11.3	21.1

404603 2014 BM_2 3 1.0 43°.38 3°.2/ 4.0 17

1 22	11 12.93	− 2 37.4	2.282	3.016	14.4	20.8
2 1	11 9.07	− 2 59.7	2.188	3.020	11.8	20.6
2 11	11 3.23	− 3 7.6	2.116	3.023	8.8	20.4
2 21	10 55.88	− 3 1.3	2.069	3.027	5.6	20.2
3 2	10 47.70	− 2 42.9	2.049	3.030	3.3	20.1
3 12	10 39.56	− 2 15.8	2.059	3.034	4.4	20.2
3 22	10 32.28	− 1 44.7	2.097	3.038	7.5	20.4
4 1	10 26.56	− 1 14.1	2.162	3.042	10.6	20.6

213611 2002 PX_{156} 3 1.0 228°.10 0°.1/ 1.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 15.35	+ 4 59.3	2.046	2.814	14.7	22.2
2 1	11 11.37	+ 5 22.8	1.942	2.804	11.8	22.0
2 11	11 5.06	+ 6 0.5	1.861	2.793	8.1	21.7
2 21	10 56.87	+ 6 49.1	1.805	2.781	4.0	21.5
3 2	10 47.59	+ 7 43.6	1.778	2.769	0.4	21.2
3 12	10 38.22	+ 8 37.4	1.781	2.756	4.9	21.5
3 22	10 29.79	+ 9 24.8	1.812	2.743	9.1	21.7
4 1	10 23.14	+10 1.0	1.868	2.729	12.9	21.9

249409 2009 CG_{65} 3 1.0 217°.98 0°.7/ 1.7 17

1 22	11 14.01	+ 2 2.2	1.965	2.728	15.4	21.4
2 1	11 10.39	+ 2 32.1	1.864	2.721	12.4	21.2
2 11	11 4.42	+ 3 19.7	1.785	2.713	8.7	20.9
2 21	10 56.57	+ 4 21.8	1.731	2.705	4.5	20.6
3 2	10 47.62	+ 5 33.3	1.706	2.696	0.7	20.3
3 12	10 38.61	+ 6 46.8	1.710	2.687	4.8	20.6
3 22	10 30.56	+ 7 55.0	1.742	2.677	9.1	20.9
4 1	10 24.34	+ 8 52.0	1.799	2.667	13.0	21.1

361218 2006 SL_{50} 3 1.0 229°.60 6°.6/ 8.4 17

1 22	11 12.71	−16 12.0	2.288	2.943	16.3	21.9
2 1	11 9.18	−16 14.9	2.169	2.929	14.3	21.7
2 11	11 3.53	−15 53.0	2.068	2.916	11.8	21.5
2 21	10 56.13	−15 4.1	1.990	2.901	9.2	21.3
3 2	10 47.67	−13 48.3	1.938	2.885	7.1	21.2
3 12	10 39.06	−12 10.0	1.915	2.869	6.8	21.1
3 22	10 31.23	−10 16.3	1.920	2.852	8.6	21.2
4 1	10 24.99	− 8 16.5	1.952	2.834	11.4	21.3

408329 2013 GA_{67} 3 1.0 320°.86 1°.2/ 1.9 18

1 22	11 10.66	+ 2 13.6	1.349	2.147	19.5	21.3
2 1	11 8.84	+ 2 22.5	1.258	2.135	15.8	21.0
2 11	11 3.98	+ 2 53.5	1.186	2.123	11.2	20.7
2 21	10 56.57	+ 3 44.5	1.136	2.112	5.9	20.4
3 2	10 47.61	+ 4 49.3	1.110	2.101	1.2	20.0
3 12	10 38.55	+ 5 58.5	1.110	2.091	6.1	20.3
3 22	10 30.81	+ 7 2.3	1.134	2.081	11.6	20.6
4 1	10 25.58	+ 7 52.6	1.180	2.072	16.6	20.8

191150 2002 GG_{149} 3 1.0 180°.18 1°.2/ 2.3 17

1 22	11 11.15	+ 0 45.4	2.124	2.882	14.6	20.9
2 1	11 7.86	+ 1 10.4	2.030	2.882	11.7	20.6
2 11	11 2.51	+ 1 51.9	1.957	2.882	8.3	20.4
2 21	10 55.57	+ 2 47.4	1.911	2.882	4.5	20.2
3 2	10 47.75	+ 3 52.2	1.893	2.882	1.2	20.0
3 12	10 39.95	+ 4 59.9	1.904	2.882	4.2	20.2
3 22	10 33.05	+ 6 4.2	1.943	2.882	8.1	20.4
4 1	10 27.77	+ 6 59.7	2.008	2.881	11.6	20.6

260084 2004 JJ_{45} 3 1.0 306°.51 4°.9/25.7 18

1 22	11 12.28	+15 43.4	1.652	2.467	15.7	20.1
2 1	11 9.57	+16 52.9	1.566	2.457	12.3	19.9
2 11	11 4.14	+18 12.5	1.502	2.447	8.6	19.6
2 21	10 56.52	+19 33.9	1.464	2.437	5.4	19.4
3 2	10 47.65	+20 47.0	1.453	2.427	5.5	19.4
3 12	10 38.77	+21 42.8	1.468	2.418	8.9	19.6
3 22	10 31.12	+22 15.7	1.508	2.408	12.8	19.8
4 1	10 25.67	+22 23.8	1.569	2.400	16.5	20.0

302132 2001 QD_{243} 3 1.0 210°.09 0°.6/ 1.6 17

1 22	11 16.31	+ 1 57.0	2.164	2.915	14.6	23.3
2 1	11 11.99	+ 2 34.3	2.056	2.906	11.7	23.1
2 11	11 5.43	+ 3 28.4	1.971	2.897	8.2	22.9
2 21	10 57.05	+ 4 36.5	1.912	2.886	4.2	22.6
3 2	10 47.59	+ 5 53.3	1.884	2.875	0.6	22.3
3 12	10 38.04	+ 7 11.7	1.886	2.862	4.6	22.6
3 22	10 29.36	+ 8 24.8	1.917	2.848	8.7	22.8
4 1	10 22.38	+ 9 26.9	1.974	2.833	12.4	23.0

415309 2013 GF_{120} 3 1.0 184°.18 1°.8/28.6 18

1 22	11 18.29	+10 27.0	1.818	2.605	15.6	21.9
2 1	11 13.85	+10 51.1	1.731	2.605	12.3	21.7
2 11	11 6.81	+11 25.6	1.666	2.605	8.3	21.5
2 21	10 57.72	+12 5.4	1.627	2.605	4.0	21.2
3 2	10 47.53	+12 44.2	1.616	2.604	2.1	21.1
3 12	10 37.43	+13 15.7	1.634	2.603	6.1	21.3
3 22	10 28.55	+13 35.0	1.679	2.601	10.3	21.6
4 1	10 21.78	+13 39.9	1.748	2.599	14.1	21.8

162397 2000 CC_{135} 3 1.0 203°.57 2°.8/ 3.7 17

1 22	11 16.22	− 1 40.6	2.548	3.272	13.3	21.0
2 1	11 11.47	− 2 4.8	2.442	3.268	10.9	20.8
2 11	11 4.81	− 2 16.9	2.358	3.264	8.1	20.6
2 21	10 56.65	− 2 17.1	2.301	3.260	5.1	20.4
3 2	10 47.65	− 2 6.9	2.274	3.256	2.8	20.2
3 12	10 38.61	− 1 49.3	2.277	3.251	4.1	20.3
3 22	10 30.34	− 1 28.0	2.309	3.246	7.1	20.5
4 1	10 23.52	− 1 6.8	2.369	3.240	10.1	20.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
312028 2007 RA_{119}			3 1.1 101°.91	0°.6/29.6 18		
	h m	° ′			°	m
1 22	11 17.92	+ 6 5.2	1.761	2.538	16.4	21.1
2 1	11 13.37	+ 6 36.8	1.692	2.559	12.9	20.9
2 11	11 6.31	+ 7 22.7	1.645	2.580	8.7	20.7
2 21	10 57.39	+ 8 18.0	1.623	2.601	4.1	20.5
3 2	10 47.60	+ 9 15.8	1.631	2.621	0.9	20.3
3 12	10 38.10	+10 9.0	1.667	2.641	5.4	20.7
3 22	10 29.93	+10 52.0	1.730	2.660	9.6	20.9
4 1	10 23.88	+11 21.0	1.818	2.678	13.2	21.2
268799 2006 UB_{187}			3 1.1 154°.88	0°.6/ 1.7 17		
1 22	11 14.93	+ 4 54.8	2.711	3.462	11.9	21.3
2 1	11 10.25	+ 4 51.1	2.616	3.466	9.5	21.1
2 11	11 3.83	+ 4 56.3	2.544	3.470	6.6	20.9
2 21	10 56.12	+ 5 8.4	2.501	3.474	3.4	20.7
3 2	10 47.73	+ 5 24.5	2.487	3.478	0.6	20.5
3 12	10 39.41	+ 5 41.4	2.505	3.481	3.6	20.7
3 22	10 31.85	+ 5 56.0	2.552	3.485	6.8	21.0
4 1	10 25.66	+ 6 5.6	2.627	3.487	9.6	21.1
298789 2004 PS_{98}			3 1.1 195°.87	2°.6/27.9 18		
1 22	11 19.57	+12 11.6	1.969	2.753	14.7	21.5
2 1	11 14.72	+12 50.5	1.877	2.750	11.5	21.3
2 11	11 7.35	+13 38.8	1.808	2.747	7.8	21.0
2 21	10 57.99	+14 30.8	1.766	2.743	4.0	20.8
3 2	10 47.53	+15 19.5	1.753	2.738	3.0	20.7
3 12	10 37.09	+15 58.5	1.769	2.732	6.5	20.9
3 22	10 27.79	+16 23.1	1.813	2.725	10.4	21.1
4 1	10 20.51	+16 31.3	1.882	2.718	13.9	21.3
118360 1999 FV_{4}			3 1.1 201°.21	0°.5/29.6 18		
1 22	11 13.93	+ 6 22.6	2.019	2.796	14.6	20.6
2 1	11 10.18	+ 6 47.5	1.927	2.794	11.6	20.4
2 11	11 4.18	+ 7 25.3	1.857	2.792	7.9	20.1
2 21	10 56.42	+ 8 12.2	1.813	2.790	3.8	19.9
3 2	10 47.70	+ 9 2.7	1.798	2.788	0.8	19.6
3 12	10 39.01	+ 9 50.8	1.811	2.786	5.0	19.9
3 22	10 31.31	+10 30.9	1.853	2.783	9.0	20.2
4 1	10 25.40	+10 59.3	1.919	2.780	12.6	20.4
40893 1999 TL_{138}			3 1.1 273°.62	1°.3/ 2.3 18		
1 22	11 11.92	+ 1 34.8	2.024	2.787	15.0	19.5
2 1	11 8.63	+ 1 45.8	1.927	2.783	12.1	19.3
2 11	11 3.14	+ 2 12.6	1.853	2.779	8.6	19.0
2 21	10 55.93	+ 2 52.9	1.803	2.775	4.6	18.8
3 2	10 47.76	+ 3 42.4	1.781	2.771	1.3	18.5
3 12	10 39.58	+ 4 35.4	1.789	2.767	4.4	18.8
3 22	10 32.34	+ 5 25.8	1.824	2.763	8.5	19.0
4 1	10 26.81	+ 6 8.4	1.884	2.759	12.1	19.2
306719 2000 WK_{74}			3 1.1 170°.97	2°.9/ 3.5 18		
1 22	11 16.73	− 1 59.5	1.909	2.651	16.5	21.1
2 1	11 12.51	− 2 6.8	1.816	2.654	13.5	20.9
2 11	11 5.85	− 1 56.1	1.743	2.657	10.0	20.7
2 21	10 57.27	− 1 28.4	1.695	2.659	6.0	20.4
3 2	10 47.62	− 0 46.7	1.675	2.660	3.0	20.3
3 12	10 37.99	+ 0 3.4	1.684	2.661	4.9	20.4
3 22	10 29.45	+ 0 55.4	1.721	2.662	8.8	20.6
4 1	10 22.85	+ 1 43.2	1.783	2.661	12.5	20.8
236229 2005 XC_{69}			3 1.1 325°.80	0°.2/ 1.2 17		
1 22	11 12.11	+ 5 31.3	1.217	2.030	20.3	20.8
2 1	11 10.36	+ 5 31.5	1.129	2.016	16.3	20.5
2 11	11 5.26	+ 5 50.8	1.060	2.003	11.4	20.1
2 21	10 57.31	+ 6 26.1	1.012	1.990	5.7	19.8
3 2	10 47.60	+ 7 11.0	0.988	1.979	0.6	19.4
3 12	10 37.76	+ 7 56.0	0.988	1.968	6.8	19.8
3 22	10 29.43	+ 8 32.6	1.012	1.958	12.7	20.0
4 1	10 23.92	+ 8 54.1	1.055	1.949	18.0	20.3
366311 2013 CM_{142}			3 1.1 11°.01	0°.3/29.9 18		
1 22	11 11.84	+ 5 48.9	1.162	1.980	20.8	21.3
2 1	11 10.01	+ 6 2.1	1.091	1.981	16.5	21.1
2 11	11 4.85	+ 6 35.5	1.038	1.983	11.4	20.8
2 21	10 56.98	+ 7 24.4	1.007	1.987	5.5	20.5
3 2	10 47.65	+ 8 20.5	1.000	1.991	0.8	20.1
3 12	10 38.50	+ 9 13.3	1.017	1.996	6.9	20.5
3 22	10 31.06	+ 9 54.3	1.057	2.002	12.5	20.9
4 1	10 26.44	+10 17.7	1.118	2.009	17.4	21.2
253015 2002 RP_{129}			3 1.1 211°.52	0°.3/29.8 16		
1 22	11 16.11	+ 6 5.9	2.074	2.843	14.5	22.3
2 1	11 11.88	+ 6 26.7	1.975	2.837	11.5	22.0
2 11	11 5.36	+ 7 0.1	1.898	2.831	7.9	21.8
2 21	10 57.02	+ 7 42.8	1.847	2.824	3.8	21.5
3 2	10 47.65	+ 8 29.7	1.826	2.817	0.6	21.3
3 12	10 38.25	+ 9 14.8	1.834	2.809	4.9	21.6
3 22	10 29.82	+ 9 52.8	1.871	2.800	9.0	21.8
4 1	10 23.17	+10 19.9	1.933	2.791	12.6	22.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
165480 2001 AJ_{50}			3 1.1 104°.16	1°.5/ 2.2 18		
	h m	° ′			°	m
1 22	11 17.55	+ 2 23.7	1.692	2.460	17.4	20.6
2 1	11 13.32	+ 2 21.5	1.614	2.472	13.9	20.4
2 11	11 6.45	+ 2 35.7	1.556	2.483	9.8	20.2
2 21	10 57.55	+ 3 3.9	1.522	2.495	5.2	19.9
3 2	10 47.60	+ 3 41.4	1.516	2.505	1.5	19.7
3 12	10 37.84	+ 4 21.9	1.538	2.516	5.0	20.0
3 22	10 29.39	+ 4 59.3	1.587	2.527	9.5	20.2
4 1	10 23.13	+ 5 28.4	1.660	2.537	13.4	20.5
384850 2012 SR_{14}			3 1.1 86°.43	3°.8/ 5.4 18		
1 22	11 10.78	− 6 56.4	2.398	3.110	14.3	21.1
2 1	11 7.28	− 7 3.3	2.308	3.121	11.9	20.9
2 11	11 1.95	− 6 52.7	2.240	3.132	9.1	20.7
2 21	10 55.26	− 6 25.0	2.196	3.143	6.2	20.6
3 2	10 47.85	− 5 42.4	2.180	3.154	4.0	20.5
3 12	10 40.52	− 4 49.3	2.193	3.165	4.5	20.5
3 22	10 34.00	− 3 51.0	2.235	3.175	7.1	20.7
4 1	10 28.92	− 2 53.0	2.303	3.186	9.9	20.9
508200 2015 FX_{394}			3 1.1 229°.53	0°.2/ 1.4 17		
1 22	11 10.86	+ 4 19.4	2.715	3.473	11.7	22.3
2 1	11 7.20	+ 4 41.9	2.609	3.465	9.3	22.1
2 11	11 1.86	+ 5 15.3	2.527	3.456	6.5	21.9
2 21	10 55.22	+ 5 57.2	2.472	3.447	3.2	21.7
3 2	10 47.85	+ 6 43.7	2.447	3.438	0.3	21.4
3 12	10 40.46	+ 7 30.6	2.452	3.428	3.7	21.7
3 22	10 33.73	+ 8 13.4	2.487	3.418	7.0	21.9
4 1	10 28.26	+ 8 48.8	2.548	3.408	9.9	22.0
465172 2007 EZ_{63}			3 1.1 50°.05	0°.3/ 1.3 18		
1 22	11 15.10	+ 5 18.4	1.619	2.405	17.3	21.3
2 1	11 11.48	+ 5 23.6	1.546	2.417	13.7	21.0
2 11	11 5.23	+ 5 43.6	1.493	2.429	9.4	20.8
2 21	10 56.96	+ 6 14.8	1.464	2.441	4.7	20.6
3 2	10 47.69	+ 6 51.7	1.463	2.454	0.5	20.3
3 12	10 38.64	+ 7 27.6	1.489	2.467	5.3	20.7
3 22	10 30.94	+ 7 56.9	1.541	2.480	9.8	21.0
4 1	10 25.43	+ 8 15.4	1.617	2.493	13.8	21.2
176859 2002 TQ_{269}			3 1.1 286°.64	3°.6/ 3.8 18		
1 22	11 13.41	− 2 37.0	1.706	2.461	17.7	20.2
2 1	11 10.37	− 2 55.2	1.605	2.450	14.7	20.0
2 11	11 4.70	− 2 53.8	1.523	2.439	11.0	19.7
2 21	10 56.85	− 2 32.7	1.465	2.428	6.9	19.5
3 2	10 47.69	− 1 54.3	1.433	2.417	3.8	19.2
3 12	10 38.40	− 1 4.1	1.428	2.406	5.5	19.3
3 22	10 30.17	− 0 9.4	1.450	2.395	9.7	19.5
4 1	10 24.02	+ 0 42.5	1.495	2.384	13.9	19.8
412232 2013 HV_{12}			3 1.1 278°.35	2°.9/27.6 16		
1 22	11 12.66	+10 5.3	1.610	2.415	16.5	21.5
2 1	11 10.00	+11 5.4	1.514	2.400	13.0	21.3
2 11	11 4.57	+12 21.9	1.440	2.384	8.8	21.0
2 21	10 56.84	+13 48.0	1.390	2.369	4.5	20.7
3 2	10 47.69	+15 14.5	1.368	2.353	3.4	20.6
3 12	10 38.42	+16 30.7	1.373	2.337	7.6	20.8
3 22	10 30.30	+17 28.9	1.403	2.322	12.3	21.0
4 1	10 24.41	+18 4.4	1.455	2.306	16.4	21.2
198451 2004 XX_{6}			3 1.1 45°.12	9°.2/ 7.8 18		
1 22	11 15.33	−12 38.8	1.466	2.182	21.8	19.4
2 1	11 12.22	−13 56.1	1.388	2.189	18.9	19.2
2 11	11 6.10	−14 46.8	1.327	2.198	15.6	19.0
2 21	10 57.55	−15 6.2	1.285	2.206	12.2	18.8
3 2	10 47.63	−14 52.6	1.266	2.216	9.7	18.7
3 12	10 37.75	−14 9.5	1.271	2.225	9.5	18.7
3 22	10 29.28	−13 5.0	1.300	2.235	11.7	18.8
4 1	10 23.32	−11 50.1	1.352	2.244	14.8	19.0
134315 7501 $P–L$			3 1.1 271°.92	11°.6/21.9 18		
1 22	11 35.09	+36 7.6	1.718	2.497	16.7	19.6
2 1	11 28.17	+37 10.3	1.630	2.475	14.5	19.3
2 11	11 17.25	+38 3.0	1.564	2.453	12.6	19.2
2 21	11 3.05	+38 32.2	1.522	2.431	11.6	19.1
3 2	10 47.07	+38 26.3	1.506	2.408	12.3	19.0
3 12	10 31.33	+37 39.2	1.514	2.386	14.4	19.1
3 22	10 17.71	+36 13.3	1.546	2.362	17.2	19.2
4 1	10 7.52	+34 15.7	1.599	2.339	20.0	19.4
413890 2006 VN_{109}			3 1.1 75°.17	1°.7/ 2.6 18		
1 22	11 14.22	− 0 4.4	1.705	2.470	17.4	21.9
2 1	11 10.59	+ 0 13.2	1.635	2.490	13.9	21.7
2 11	11 4.51	+ 0 50.4	1.585	2.510	9.9	21.5
2 21	10 56.58	+ 1 44.1	1.559	2.530	5.4	21.3
3 2	10 47.76	+ 2 48.5	1.561	2.550	1.8	21.1
3 12	10 39.18	+ 3 56.1	1.591	2.570	4.8	21.4
3 22	10 31.88	+ 4 59.3	1.648	2.590	9.0	21.7
4 1	10 26.63	+ 5 52.2	1.729	2.609	12.8	21.9

85520 1997 WO_2 3 1.1 113°.25 3°.8/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 17.54	+13 25.6	1.690	2.490	16.1	19.2
2 1	11 13.32	+14 33.0	1.624	2.506	12.5	19.0
2 11	11 6.44	+15 50.1	1.580	2.522	8.4	18.8
2 21	10 57.54	+17 9.0	1.561	2.536	4.7	18.6
3 2	10 47.66	+18 20.2	1.571	2.551	4.3	18.6
3 12	10 38.06	+19 15.8	1.609	2.565	7.7	18.8
3 22	10 29.85	+19 51.1	1.673	2.578	11.5	19.1
4 1	10 23.88	+20 4.8	1.760	2.591	14.9	19.3

69638 1998 FU_{71} 3 1.1 278°.70 0°.1/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.86	+ 5 15.2	1.633	2.418	17.2	20.1
2 1	11 11.66	+ 5 25.8	1.534	2.405	13.8	19.8
2 11	11 5.67	+ 5 52.4	1.456	2.392	9.6	19.5
2 21	10 57.37	+ 6 31.9	1.401	2.378	4.8	19.2
3 2	10 47.68	+ 7 18.7	1.374	2.365	0.5	18.9
3 12	10 37.86	+ 8 5.5	1.374	2.351	5.7	19.2
3 22	10 29.19	+ 8 45.2	1.400	2.338	10.7	19.4
4 1	10 22.75	+ 9 12.7	1.450	2.324	15.1	19.7

362357 2010 MK_{109} 3 1.1 230°.58 0°.1/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.58	+ 4 17.2	2.110	2.875	14.4	22.5
2 1	11 10.75	+ 4 54.6	2.002	2.862	11.5	22.3
2 11	11 4.67	+ 5 47.6	1.916	2.848	8.0	22.0
2 21	10 56.76	+ 6 52.8	1.857	2.834	3.9	21.8
3 2	10 47.75	+ 8 4.6	1.827	2.818	0.5	21.5
3 12	10 38.62	+ 9 15.9	1.828	2.802	4.9	21.8
3 22	10 30.34	+10 20.1	1.856	2.786	9.1	22.0
4 1	10 23.78	+11 12.0	1.910	2.768	12.8	22.2

58451 1996 JF_3 3 1.1 128°.72 4°.6/26.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.72	+15 55.3	1.714	2.516	15.8	18.5
2 1	11 14.29	+17 0.6	1.645	2.528	12.3	18.3
2 11	11 7.14	+18 13.4	1.599	2.539	8.5	18.1
2 21	10 57.91	+19 25.2	1.578	2.550	5.2	18.0
3 2	10 47.66	+20 27.0	1.586	2.561	5.1	18.0
3 12	10 37.66	+21 11.2	1.621	2.571	8.3	18.2
3 22	10 29.07	+21 34.0	1.683	2.580	11.9	18.4
4 1	10 22.76	+21 34.8	1.766	2.589	15.3	18.6

430011 2013 QK_{90} 3 1.1 83°.86 1°.0/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 9.53	+ 2 56.5	1.886	2.664	15.5	21.4
2 1	11 6.89	+ 4 28.9	1.800	2.670	12.1	21.1
2 11	11 2.03	+ 6 22.6	1.738	2.675	8.2	20.9
2 21	10 55.44	+ 8 31.0	1.702	2.681	3.8	20.7
3 2	10 47.91	+10 44.8	1.696	2.686	1.4	20.5
3 12	10 40.44	+12 52.8	1.721	2.692	5.6	20.8
3 22	10 33.96	+14 45.8	1.774	2.697	9.8	21.0
4 1	10 29.27	+16 17.5	1.851	2.703	13.4	21.3

244593 2002 XB_{70} 3 1.1 22°.94 8°.4/20.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.11	+25 56.3	1.754	2.579	14.5	19.5
2 1	11 7.71	+27 53.0	1.700	2.587	11.7	19.3
2 11	11 2.74	+29 48.7	1.670	2.596	9.4	19.2
2 21	10 55.81	+31 32.2	1.665	2.605	8.4	19.2
3 2	10 47.88	+32 53.0	1.686	2.615	9.5	19.2
3 12	10 40.17	+33 44.4	1.733	2.626	11.7	19.4
3 22	10 33.76	+34 4.5	1.801	2.637	14.3	19.6
4 1	10 29.48	+33 55.2	1.889	2.648	16.7	19.8

469090 2015 BO_{430} 3 1.1 288°.17 3°.3/26.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.55	+13 6.9	2.057	2.858	13.5	21.1
2 1	11 7.60	+14 15.7	1.968	2.852	10.5	20.9
2 11	11 2.48	+15 34.7	1.903	2.846	7.2	20.7
2 21	10 55.66	+16 57.2	1.865	2.840	4.1	20.5
3 2	10 47.90	+18 15.6	1.855	2.834	3.9	20.5
3 12	10 40.14	+19 22.2	1.874	2.829	6.9	20.6
3 22	10 33.32	+20 11.9	1.920	2.823	10.4	20.8
4 1	10 28.21	+20 41.8	1.989	2.817	13.6	21.0

139644 2001 QZ_{168} 3 1.1 80°.71 3°.2/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.20	+12 50.6	1.788	2.584	15.5	19.8
2 1	11 12.76	+13 46.1	1.730	2.610	12.0	19.6
2 11	11 5.87	+14 50.1	1.695	2.636	8.0	19.4
2 21	10 57.20	+15 55.4	1.686	2.662	4.3	19.2
3 2	10 47.76	+16 54.2	1.705	2.687	3.6	19.2
3 12	10 38.68	+17 39.7	1.753	2.712	6.8	19.5
3 22	10 30.96	+18 8.1	1.828	2.737	10.5	19.8
4 1	10 25.32	+18 18.3	1.926	2.761	13.7	20.0

252664 2002 AP 3 1.1 6°.14 4°.7/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.46	+ 0 1.0	1.343	2.125	20.4	18.5
2 1	11 12.49	− 1 12.0	1.265	2.125	16.8	18.2
2 11	11 6.39	− 2 8.9	1.204	2.127	12.6	18.0
2 21	10 57.74	− 2 47.8	1.166	2.130	8.0	17.7
3 2	10 47.68	− 3 8.9	1.152	2.135	4.8	17.6
3 12	10 37.72	− 3 15.5	1.164	2.141	6.6	17.7
3 22	10 29.28	− 3 12.7	1.200	2.148	11.0	17.9
4 1	10 23.46	− 3 6.9	1.258	2.156	15.3	18.2

95447 2002 CY_{255} 3 1.1 80°.20 3°.6/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 16.69	− 2 18.3	1.932	2.672	16.4	19.8
2 1	11 12.37	− 2 49.7	1.847	2.682	13.5	19.7
2 11	11 5.69	− 3 4.8	1.784	2.693	10.0	19.5
2 21	10 57.20	− 3 3.8	1.744	2.703	6.4	19.3
3 2	10 47.76	− 2 48.7	1.732	2.714	3.7	19.1
3 12	10 38.43	− 2 23.7	1.749	2.724	5.0	19.2
3 22	10 30.21	− 1 53.9	1.794	2.735	8.5	19.4
4 1	10 23.91	− 1 24.7	1.863	2.745	11.9	19.7

56159 1999 CK_{147} 3 1.1 252°.60 0°.5/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.16	+ 8 23.0	2.006	2.780	14.8	19.4
2 1	11 13.65	+ 8 23.7	1.903	2.769	11.7	19.1
2 11	11 6.69	+ 8 34.0	1.823	2.758	8.1	18.9
2 21	10 57.76	+ 8 50.8	1.769	2.746	3.9	18.6
3 2	10 47.69	+ 9 9.7	1.744	2.734	0.8	18.3
3 12	10 37.57	+ 9 25.8	1.748	2.722	5.1	18.6
3 22	10 28.46	+ 9 35.0	1.780	2.710	9.4	18.8
4 1	10 21.26	+ 9 34.6	1.837	2.697	13.1	19.0

44639 1999 RM_{109} 3 1.1 292°.78 3°.9/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.64	− 2 37.6	1.600	2.360	18.5	18.8
2 1	11 10.76	− 2 59.4	1.502	2.349	15.4	18.6
2 11	11 5.10	− 3 0.9	1.422	2.338	11.5	18.3
2 21	10 57.13	− 2 41.5	1.365	2.328	7.3	18.0
3 2	10 47.75	− 2 3.6	1.333	2.317	4.0	17.8
3 12	10 38.22	− 1 13.1	1.329	2.306	5.8	17.9
3 22	10 29.83	− 0 17.4	1.350	2.296	10.2	18.1
4 1	10 23.66	+ 0 35.2	1.394	2.286	14.5	18.3

265741 2005 UG_{509} 3 1.1 150°.83 1°.0/29.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.15	+ 7 22.4	2.315	3.086	13.1	21.9
2 1	11 9.98	+ 8 4.8	2.229	3.095	10.3	21.8
2 11	11 3.86	+ 8 58.3	2.167	3.103	6.9	21.6
2 21	10 56.25	+ 9 58.8	2.133	3.110	3.3	21.3
3 2	10 47.87	+11 0.6	2.128	3.117	1.3	21.2
3 12	10 39.58	+11 57.8	2.154	3.124	4.7	21.4
3 22	10 32.19	+12 45.7	2.208	3.130	8.2	21.7
4 1	10 26.38	+13 20.9	2.288	3.135	11.4	21.9

517168 2013 OF_{12} 3 1.1 177°.26 3°.1/ 4.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.37	− 4 45.7	2.403	3.124	14.0	22.3
2 1	11 8.60	− 4 42.8	2.303	3.126	11.6	22.1
2 11	11 2.95	− 4 23.0	2.225	3.127	8.7	21.9
2 21	10 55.83	− 3 47.1	2.172	3.127	5.6	21.7
3 2	10 47.91	− 2 57.8	2.147	3.128	3.2	21.6
3 12	10 40.00	− 1 59.7	2.153	3.128	4.2	21.6
3 22	10 32.87	− 0 58.3	2.187	3.127	7.2	21.8
4 1	10 27.20	+ 0 0.8	2.247	3.126	10.3	22.0

406419 2007 TZ_{166} 3 1.1 199°.20 1°.1/29.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.05	+ 8 24.5	1.996	2.772	14.8	22.2
2 1	11 13.52	+ 8 51.3	1.901	2.768	11.7	22.0
2 11	11 6.56	+ 9 29.6	1.829	2.765	8.0	21.8
2 21	10 57.69	+10 15.3	1.782	2.760	3.8	21.5
3 2	10 47.73	+11 2.5	1.765	2.755	1.4	21.3
3 12	10 37.78	+11 44.8	1.778	2.749	5.5	21.6
3 22	10 28.89	+12 17.2	1.818	2.742	9.6	21.8
4 1	10 21.91	+12 36.3	1.884	2.735	13.2	22.0

91561 1999 RK_{230} 3 1.1 190°.65 1°.5/28.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.37	+11 5.3	2.264	3.040	13.2	20.0
2 1	11 12.62	+11 21.3	2.171	3.040	10.4	19.8
2 11	11 5.73	+11 44.6	2.102	3.038	7.0	19.5
2 21	10 57.20	+12 11.4	2.059	3.037	3.4	19.3
3 2	10 47.79	+12 36.9	2.047	3.035	1.8	19.2
3 12	10 38.45	+12 56.6	2.064	3.033	5.1	19.4
3 22	10 30.07	+13 7.0	2.110	3.030	8.7	19.6
4 1	10 23.38	+13 6.2	2.182	3.027	11.9	19.8

6342 1993 VG 3 1.1 105°.72 1°.2/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.77	+ 8 47.0	2.146	2.928	13.7	18.2
2 1	11 9.12	+ 9 16.5	2.058	2.930	10.7	18.0
2 11	11 3.39	+ 9 56.4	1.994	2.933	7.2	17.8
2 21	10 56.07	+10 42.5	1.957	2.935	3.4	17.5
3 2	10 47.91	+11 29.3	1.948	2.937	1.5	17.4
3 12	10 39.82	+12 11.2	1.969	2.939	5.0	17.6
3 22	10 32.69	+12 43.6	2.017	2.942	8.7	17.9
4 1	10 27.21	+13 3.6	2.090	2.944	12.0	18.1

218443 2004 RD_{200} 3 1.1 95°.54 1°.4/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.94	+ 1 24.0	1.681	2.442	17.7	20.9
2 1	11 14.29	+ 1 35.2	1.612	2.467	14.1	20.7
2 11	11 7.04	+ 2 4.4	1.565	2.491	9.9	20.5
2 21	10 57.84	+ 2 48.3	1.542	2.514	5.3	20.3
3 2	10 47.74	+ 3 41.5	1.547	2.537	1.4	20.1
3 12	10 37.95	+ 4 36.7	1.581	2.560	4.9	20.4
3 22	10 29.58	+ 5 27.1	1.643	2.581	9.3	20.7
4 1	10 23.41	+ 6 7.5	1.729	2.603	13.1	20.9

336265 2008 SS_{173} 3 1.1 188°.49 0°.8/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 14.40	+ 8 4.6	2.400	3.170	12.7	21.9
2 1	11 10.17	+ 8 26.9	2.305	3.170	10.0	21.7
2 11	11 4.01	+ 8 58.6	2.234	3.169	6.8	21.5
2 21	10 56.35	+ 9 36.3	2.190	3.167	3.2	21.2
3 2	10 47.89	+10 15.5	2.176	3.166	1.0	21.0
3 12	10 39.46	+10 51.5	2.192	3.164	4.5	21.3
3 22	10 31.88	+11 20.1	2.236	3.161	8.0	21.5
4 1	10 25.82	+11 38.5	2.307	3.158	11.1	21.7

402019 2003 SE_{39} 3 1.1 191°.73 0°.2/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.16	+ 5 41.4	2.152	2.915	14.2	22.1
2 1	11 12.62	+ 6 6.0	2.054	2.914	11.3	21.9
2 11	11 5.84	+ 6 43.3	1.980	2.911	7.8	21.7
2 21	10 57.31	+ 7 29.8	1.932	2.908	3.8	21.4
3 2	10 47.80	+ 8 20.5	1.914	2.904	0.5	21.1
3 12	10 38.29	+ 9 9.5	1.926	2.900	4.7	21.4
3 22	10 29.73	+ 9 51.5	1.966	2.894	8.7	21.7
4 1	10 22.93	+10 22.5	2.032	2.888	12.2	21.9

197556 2004 FY_{115} 3 1.1 253°.11 3°.4/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.21	+10 44.3	1.631	2.432	16.5	21.3
2 1	11 12.09	+11 54.4	1.532	2.415	13.0	21.0
2 11	11 6.10	+13 21.2	1.454	2.397	8.9	20.7
2 21	10 57.69	+14 57.8	1.402	2.379	4.7	20.4
3 2	10 47.76	+16 33.7	1.377	2.361	3.9	20.3
3 12	10 37.62	+17 58.0	1.381	2.341	8.1	20.5
3 22	10 28.63	+19 2.2	1.409	2.322	12.7	20.7
4 1	10 21.91	+19 41.9	1.461	2.301	16.9	20.9

316742 1998 XQ_{7} 3 1.1 176°.10 3°.8/ 5.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.64	− 7 46.6	2.642	3.341	13.4	21.3
2 1	11 7.87	− 7 48.5	2.539	3.342	11.2	21.1
2 11	11 2.37	− 7 33.6	2.458	3.344	8.7	21.0
2 21	10 55.55	− 7 2.2	2.402	3.345	6.0	20.8
3 2	10 47.99	− 6 16.1	2.374	3.346	4.0	20.7
3 12	10 40.44	− 5 19.3	2.376	3.346	4.4	20.7
3 22	10 33.59	− 4 16.8	2.407	3.346	6.8	20.8
4 1	10 28.06	− 3 14.0	2.466	3.345	9.5	21.0

294593 2007 YD_{72} 3 1.1 236°.38 2°.6/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.34	− 1 17.5	2.618	3.346	12.9	21.3
2 1	11 10.01	− 1 40.1	2.511	3.340	10.5	21.1
2 11	11 3.86	− 1 51.0	2.427	3.335	7.8	20.9
2 21	10 56.29	− 1 50.6	2.370	3.330	4.8	20.7
3 2	10 47.93	− 1 40.5	2.341	3.324	2.7	20.5
3 12	10 39.54	− 1 23.5	2.343	3.318	3.9	20.6
3 22	10 31.86	− 1 3.2	2.375	3.313	6.9	20.8
4 1	10 25.55	− 0 43.3	2.433	3.307	9.8	21.0

165345 2000 VF_{52} 3 1.1 175°.15 3°.0/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.70	− 2 13.1	1.906	2.647	16.6	20.5
2 1	11 12.55	− 2 20.0	1.812	2.650	13.6	20.3
2 11	11 5.96	− 2 8.7	1.739	2.652	10.0	20.1
2 21	10 57.43	− 1 40.0	1.690	2.653	6.1	19.8
3 2	10 47.82	− 0 57.1	1.669	2.653	3.1	19.6
3 12	10 38.23	− 0 5.5	1.676	2.654	4.9	19.8
3 22	10 29.69	+ 0 48.3	1.712	2.653	8.8	20.0
4 1	10 23.10	+ 1 37.8	1.773	2.652	12.6	20.2

427552 2002 TQ_{213} 3 1.1 143°.22 3°.2/26.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.56	+17 4.7	2.629	3.414	11.4	21.8
2 1	11 10.85	+17 44.1	2.550	3.423	8.9	21.6
2 11	11 4.32	+18 26.8	2.496	3.432	6.1	21.4
2 21	10 56.46	+19 7.8	2.470	3.440	3.7	21.3
3 2	10 47.94	+19 42.2	2.474	3.448	3.6	21.3
3 12	10 39.55	+20 5.8	2.508	3.455	5.8	21.5
3 22	10 32.04	+20 16.4	2.570	3.463	8.5	21.6
4 1	10 26.01	+20 13.1	2.658	3.469	11.0	21.8

501186 2013 TH_{109} 3 1.1 199°.68 1°.7/28.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.74	+11 40.8	2.465	3.237	12.4	22.0
2 1	11 12.76	+11 59.6	2.367	3.234	9.7	21.8
2 11	11 5.77	+12 24.9	2.294	3.230	6.6	21.5
2 21	10 57.23	+12 52.9	2.248	3.225	3.3	21.3
3 2	10 47.86	+13 19.2	2.233	3.220	1.9	21.2
3 12	10 38.51	+13 39.5	2.248	3.214	5.0	21.4
3 22	10 30.04	+13 50.5	2.293	3.208	8.3	21.6
4 1	10 23.14	+13 50.5	2.363	3.201	11.3	21.8

107021 2000 YK_{116} 3 1.1 356°.98 2°.8/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.58	+10 17.3	1.246	2.072	19.2	19.0
2 1	11 8.94	+10 56.8	1.172	2.069	15.1	18.8
2 11	11 4.12	+11 52.5	1.117	2.066	10.2	18.5
2 21	10 56.73	+12 57.2	1.084	2.064	5.1	18.2
3 2	10 47.90	+14 0.7	1.076	2.063	3.3	18.1
3 12	10 39.20	+14 52.5	1.093	2.064	8.0	18.3
3 22	10 32.06	+15 25.2	1.132	2.065	13.2	18.6
4 1	10 27.58	+15 35.2	1.192	2.068	17.7	18.9

522466 2016 CU_{321} 3 1.1 56°.59 2°.6/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 20.53	+14 25.8	1.875	2.664	15.1	20.6
2 1	11 15.47	+14 30.4	1.795	2.670	11.9	20.4
2 11	11 7.85	+14 39.9	1.737	2.676	8.1	20.2
2 21	10 58.30	+14 49.6	1.706	2.682	4.2	20.0
3 2	10 47.78	+14 54.2	1.703	2.688	2.9	19.9
3 12	10 37.49	+14 49.3	1.729	2.694	6.2	20.1
3 22	10 28.50	+14 32.7	1.783	2.701	10.1	20.4
4 1	10 21.66	+14 3.8	1.860	2.707	13.6	20.6

455710 2005 ET_{306} 3 1.1 274°.01 0°.1/ 1.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.41	+ 4 46.0	1.729	2.510	16.5	21.5
2 1	11 11.25	+ 5 4.1	1.623	2.491	13.3	21.2
2 11	11 5.41	+ 5 38.8	1.538	2.473	9.3	20.9
2 21	10 57.33	+ 6 27.0	1.477	2.454	4.6	20.6
3 2	10 47.85	+ 7 23.3	1.443	2.434	0.4	20.2
3 12	10 38.17	+ 8 20.0	1.438	2.415	5.6	20.6
3 22	10 29.51	+ 9 9.9	1.459	2.395	10.5	20.8
4 1	10 22.93	+ 9 47.3	1.503	2.375	14.8	21.0

340858 2007 BQ_{5} 3 1.1 49°.55 2°.8/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.27	+10 20.0	1.233	2.050	19.8	20.6
2 1	11 13.37	+11 0.2	1.165	2.057	15.6	20.4
2 11	11 7.09	+11 56.1	1.117	2.064	10.5	20.1
2 21	10 58.14	+13 0.0	1.092	2.071	5.2	19.8
3 2	10 47.79	+14 1.4	1.091	2.079	3.3	19.7
3 12	10 37.72	+14 49.9	1.116	2.086	8.1	20.0
3 22	10 29.42	+15 19.0	1.165	2.094	13.2	20.3
4 1	10 23.97	+15 26.0	1.234	2.103	17.6	20.6

416208 2002 TW_{355} 3 1.1 191°.19 0°.1/ 1.2 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.23	+ 5 0.7	2.100	2.864	14.5	23.0
2 1	11 11.95	+ 5 19.8	2.004	2.863	11.5	22.8
2 11	11 5.43	+ 5 52.0	1.930	2.861	8.0	22.6
2 21	10 57.15	+ 6 34.0	1.883	2.859	3.9	22.3
3 2	10 47.90	+ 7 21.2	1.865	2.856	0.4	22.0
3 12	10 38.65	+ 8 7.6	1.877	2.853	4.6	22.3
3 22	10 30.37	+ 8 48.0	1.917	2.849	8.7	22.6
4 1	10 23.86	+ 9 18.4	1.983	2.845	12.2	22.8

111308 2001 XT_{64} 3 1.1 131°.63 4°.2/24.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.77	+21 23.6	3.033	3.823	9.9	20.1
2 1	11 8.49	+22 30.1	2.965	3.838	7.8	19.9
2 11	11 2.63	+23 37.4	2.923	3.853	5.6	19.8
2 21	10 55.62	+24 40.4	2.910	3.867	4.3	19.7
3 2	10 48.06	+25 33.8	2.927	3.880	4.6	19.8
3 12	10 40.61	+26 14.0	2.974	3.893	6.4	19.9
3 22	10 33.91	+26 38.7	3.048	3.906	8.4	20.1
4 1	10 28.48	+26 47.6	3.147	3.918	10.4	20.2

207943 1979 MN_{4} 3 1.1 159°.30 2°.4/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.71	− 2 55.0	2.386	3.105	14.2	21.7
2 1	11 12.73	− 2 44.6	2.291	3.115	11.6	21.5
2 11	11 5.75	− 2 18.0	2.219	3.125	8.5	21.3
2 21	10 57.23	− 1 36.6	2.173	3.133	5.1	21.1
3 2	10 47.90	− 0 43.7	2.157	3.141	2.5	20.9
3 12	10 38.63	+ 0 15.6	2.171	3.147	4.1	21.0
3 22	10 30.25	+ 1 15.7	2.216	3.153	7.4	21.3
4 1	10 23.46	+ 2 11.4	2.288	3.157	10.5	21.5

401398 2013 CU_{50} 3 1.1 290°.19 3°.7/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.73	− 1 52.6	1.470	2.238	19.5	21.5
2 1	11 11.87	− 2 14.6	1.377	2.231	16.1	21.2
2 11	11 6.02	− 2 15.1	1.303	2.223	12.0	20.9
2 21	10 57.68	− 1 54.2	1.250	2.216	7.4	20.6
3 2	10 47.84	− 1 14.4	1.223	2.208	3.8	20.4
3 12	10 37.88	− 0 22.4	1.222	2.201	6.0	20.5
3 22	10 29.20	+ 0 33.6	1.246	2.194	10.7	20.8
4 1	10 22.94	+ 1 25.1	1.293	2.186	15.3	21.0

167063 2003 QR_{93} 3 1.1 143°.00 1°.3/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.91	+ 8 27.0	1.981	2.757	14.9	21.2
2 1	11 13.27	+ 9 2.2	1.900	2.768	11.7	21.0
2 11	11 6.30	+ 9 49.0	1.842	2.779	7.9	20.8
2 21	10 57.54	+10 42.3	1.811	2.789	3.8	20.6
3 2	10 47.87	+11 36.1	1.809	2.798	1.6	20.4
3 12	10 38.36	+12 23.8	1.836	2.807	5.4	20.7
3 22	10 29.99	+13 0.5	1.892	2.815	9.4	21.0
4 1	10 23.54	+13 23.1	1.973	2.822	12.8	21.2

417642 2006 XX_{53} 3 1.1 129°.43 5°.8/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.84	−12 26.1	2.374	3.041	15.5	22.2
2 1	11 12.08	−12 53.5	2.286	3.059	13.3	22.1
2 11	11 5.31	−13 1.0	2.218	3.077	10.7	21.9
2 21	10 57.02	−12 47.6	2.174	3.093	8.1	21.8
3 2	10 47.92	−12 14.0	2.157	3.109	6.1	21.7
3 12	10 38.93	−11 24.1	2.169	3.124	6.0	21.7
3 22	10 30.85	−10 23.1	2.210	3.138	7.9	21.9
4 1	10 24.39	− 9 17.7	2.277	3.152	10.3	22.0

498821 2008 UQ_{364} 3 1.1 198°.25 2°.2/27.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 12.74	+11 54.8	2.797	3.574	11.0	22.4
2 1	11 8.67	+12 52.1	2.699	3.570	8.5	22.2
2 11	11 2.91	+13 57.2	2.627	3.565	5.8	22.0
2 21	10 55.83	+15 5.4	2.584	3.559	3.0	21.8
3 2	10 48.04	+16 11.6	2.571	3.553	2.5	21.8
3 12	10 40.24	+17 10.4	2.590	3.547	5.1	21.9
3 22	10 33.11	+17 57.9	2.637	3.540	7.9	22.1
4 1	10 27.28	+18 31.6	2.711	3.532	10.6	22.3

14967 Madrid 3 1.1 148°.24 2°.0/ 2.9 18

1 22	11 16.18	+ 0 7.6	2.120	2.865	15.0	19.3
2 1	11 11.80	+ 0 6.8	2.030	2.872	12.1	19.1
2 11	11 5.25	+ 0 21.2	1.961	2.879	8.7	18.9
2 21	10 57.03	+ 0 48.9	1.918	2.886	5.0	18.6
3 2	10 47.92	+ 1 26.7	1.904	2.892	2.0	18.4
3 12	10 38.88	+ 2 9.4	1.920	2.898	4.3	18.6
3 22	10 30.83	+ 2 51.8	1.964	2.903	8.0	18.8
4 1	10 24.52	+ 3 28.9	2.034	2.908	11.5	19.1

51260 2000 JZ_{62} 3 1.1 94°.03 4°.0/ 5.1 18

1 22	11 12.75	− 5 59.0	2.295	3.011	14.7	18.4
2 1	11 8.98	− 6 17.2	2.204	3.020	12.3	18.3
2 11	11 3.25	− 6 18.5	2.134	3.029	9.4	18.1
2 21	10 56.04	− 6 2.9	2.089	3.037	6.4	17.9
3 2	10 48.03	− 5 32.4	2.071	3.046	4.1	17.8
3 12	10 40.08	− 4 50.9	2.082	3.054	4.7	17.8
3 22	10 33.00	− 4 3.4	2.122	3.062	7.4	18.0
4 1	10 27.45	− 3 15.6	2.188	3.070	10.4	18.2

388327 2006 SS_{362} 3 1.1 333°.76 4°.6/ 6.2 17

1 22	11 7.85	− 9 7.4	2.230	2.941	15.2	20.5
2 1	11 5.34	− 9 9.6	2.126	2.936	12.9	20.3
2 11	11 0.90	− 8 50.9	2.043	2.930	10.1	20.1
2 21	10 54.95	− 8 11.4	1.983	2.925	7.2	19.9
3 2	10 48.13	− 7 12.8	1.950	2.920	4.9	19.8
3 12	10 41.28	− 6 0.0	1.944	2.915	5.1	19.8
3 22	10 35.21	− 4 39.5	1.967	2.911	7.7	19.9
4 1	10 30.63	− 3 18.6	2.016	2.907	10.7	20.1

3252 Johnny 3 1.1 28°.34 2°.4/ 2.6 18 R

1 22	11 18.66	+ 2 46.2	1.613	2.384	18.0	16.2
2 1	11 14.44	+ 2 4.8	1.531	2.390	14.5	15.9
2 11	11 7.42	+ 1 37.1	1.470	2.396	10.4	15.7
2 21	10 58.21	+ 1 22.4	1.433	2.403	5.9	15.5
3 2	10 47.82	+ 1 18.5	1.422	2.410	2.5	15.2
3 12	10 37.59	+ 1 21.2	1.439	2.418	5.3	15.4
3 22	10 28.71	+ 1 25.9	1.483	2.426	9.7	15.7
4 1	10 22.16	+ 1 28.2	1.551	2.435	13.8	16.0

190291 1995 OD_{6} 3 1.1 247°.73 1°.3/ 1.9 18

1 22	11 19.08	+ 3 53.5	1.516	2.295	18.6	21.5
2 1	11 15.23	+ 3 40.8	1.422	2.287	15.0	21.2
2 11	11 8.29	+ 3 44.1	1.348	2.279	10.7	20.9
2 21	10 58.79	+ 4 1.3	1.297	2.271	5.6	20.6
3 2	10 47.75	+ 4 28.2	1.272	2.263	1.3	20.3
3 12	10 36.62	+ 4 58.4	1.275	2.254	5.8	20.6
3 22	10 26.83	+ 5 25.4	1.304	2.245	11.0	20.8
4 1	10 19.53	+ 5 43.8	1.356	2.236	15.6	21.1

381429 2008 OT_{23} 3 1.1 202°.77 0°.1/ 1.0 17

1 22	11 12.52	+ 4 42.2	2.318	3.082	13.3	21.9
2 1	11 8.84	+ 5 14.7	2.219	3.079	10.5	21.7
2 11	11 3.21	+ 6 0.4	2.144	3.076	7.3	21.5
2 21	10 56.05	+ 6 55.8	2.096	3.072	3.5	21.3
3 2	10 48.04	+ 7 56.0	2.077	3.068	0.4	21.0
3 12	10 40.03	+ 8 55.2	2.088	3.063	4.3	21.3
3 22	10 32.83	+ 9 48.1	2.128	3.058	8.0	21.5
4 1	10 27.15	+10 30.5	2.193	3.053	11.3	21.7

272630 2005 WL_{66} 3 1.1 254°.91 2°.2/28.0 17

1 22	11 13.48	+10 43.2	1.936	2.729	14.6	20.8
2 1	11 10.06	+11 25.9	1.845	2.723	11.4	20.6
2 11	11 4.28	+12 19.8	1.776	2.717	7.7	20.4
2 21	10 56.66	+13 19.4	1.734	2.712	3.9	20.1
3 2	10 47.99	+14 17.9	1.720	2.706	2.6	20.0
3 12	10 39.33	+15 8.1	1.734	2.700	6.2	20.2
3 22	10 31.71	+15 44.8	1.775	2.694	10.1	20.5
4 1	10 25.94	+16 4.9	1.840	2.688	13.7	20.7

406210 2006 YN_{38} 3 1.1 90°.25 0°.9/ 1.9 18

1 22	11 18.92	+ 2 40.8	2.039	2.791	15.3	21.7
2 1	11 13.74	+ 2 56.2	1.973	2.823	12.1	21.6
2 11	11 6.40	+ 3 25.6	1.930	2.855	8.4	21.4
2 21	10 57.51	+ 4 5.8	1.914	2.887	4.3	21.2
3 2	10 47.94	+ 4 52.0	1.927	2.917	0.9	21.0
3 12	10 38.69	+ 5 38.4	1.970	2.947	4.3	21.3
3 22	10 30.64	+ 6 19.9	2.042	2.976	8.0	21.6
4 1	10 24.45	+ 6 52.6	2.140	3.004	11.3	21.8

15179 9062 $P–L$ 3 1.1 120°.90 1°.3/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 15.40	+ 1 8.3	2.093	2.844	15.0	18.6
2 1	11 11.15	+ 1 25.9	2.011	2.860	12.0	18.4
2 11	11 4.77	+ 1 59.0	1.952	2.875	8.4	18.2
2 21	10 56.79	+ 2 44.8	1.918	2.889	4.5	18.0
3 2	10 48.01	+ 3 38.8	1.914	2.903	1.3	17.8
3 12	10 39.36	+ 4 35.1	1.939	2.917	4.2	18.0
3 22	10 31.75	+ 5 27.9	1.992	2.930	8.0	18.3
4 1	10 25.87	+ 6 12.3	2.072	2.942	11.4	18.5

403320 2009 DS_{15} 3 1.1 30°.08 1°.2/29.2 18

1 22	11 13.79	+ 7 3.0	1.495	2.294	17.8	21.3
2 1	11 10.92	+ 7 39.8	1.415	2.296	14.1	21.1
2 11	11 5.19	+ 8 33.6	1.356	2.297	9.6	20.8
2 21	10 57.20	+ 9 39.0	1.320	2.299	4.6	20.5
3 2	10 47.97	+10 47.6	1.311	2.301	1.6	20.3
3 12	10 38.84	+11 50.3	1.329	2.303	6.4	20.6
3 22	10 31.06	+12 39.4	1.373	2.306	11.3	20.9
4 1	10 25.64	+13 10.4	1.439	2.308	15.5	21.2

117070 2004 KE_{13} 3 1.1 201°.28 1°.5/ 2.9 17

1 22	11 12.17	− 1 32.0	2.340	3.079	13.9	21.0
2 1	11 8.59	− 0 54.6	2.236	3.075	11.3	20.8
2 11	11 3.07	+ 0 0.7	2.153	3.071	8.1	20.6
2 21	10 56.01	+ 1 11.5	2.098	3.066	4.5	20.3
3 2	10 48.09	+ 2 33.3	2.071	3.060	1.5	20.1
3 12	10 40.14	+ 3 59.6	2.076	3.054	4.0	20.3
3 22	10 32.95	+ 5 23.7	2.109	3.047	7.6	20.5
4 1	10 27.25	+ 6 39.5	2.170	3.040	11.0	20.7

23665 1997 EU_{46} 3 1.1 280°.48 1°.0/ 1.9 18

1 22	11 13.47	+ 2 35.2	1.728	2.503	16.8	18.8
2 1	11 10.48	+ 2 45.3	1.623	2.487	13.6	18.5
2 11	11 4.88	+ 3 13.2	1.540	2.470	9.6	18.2
2 21	10 57.10	+ 3 56.5	1.480	2.454	5.1	17.9
3 2	10 47.98	+ 4 50.6	1.447	2.438	1.0	17.6
3 12	10 38.69	+ 5 48.3	1.443	2.422	5.2	17.8
3 22	10 30.42	+ 6 42.2	1.464	2.405	10.0	18.1
4 1	10 24.20	+ 7 26.0	1.510	2.389	14.4	18.3

388293 2006 ST_{99} 3 1.1 143°.13 2°.2/ 3.9 17

1 22	11 9.83	− 3 21.6	2.708	3.433	12.5	21.8
2 1	11 6.40	− 3 4.7	2.611	3.439	10.2	21.6
2 11	11 1.36	− 2 32.8	2.537	3.444	7.5	21.4
2 21	10 55.10	− 1 47.5	2.489	3.450	4.6	21.3
3 2	10 48.20	− 0 51.9	2.471	3.455	2.3	21.1
3 12	10 41.33	+ 0 9.7	2.482	3.460	3.5	21.2
3 22	10 35.15	+ 1 12.1	2.524	3.464	6.4	21.4
4 1	10 30.22	+ 2 10.7	2.592	3.469	9.2	21.6

358569 2007 TD_{340} 3 1.1 288°.24 3°.7/27.4 18

1 22	11 16.74	+13 43.4	1.515	2.324	17.2	21.0
2 1	11 13.37	+14 23.7	1.430	2.317	13.5	20.8
2 11	11 6.98	+15 14.5	1.367	2.311	9.3	20.5
2 21	10 58.13	+16 8.6	1.327	2.304	5.1	20.3
3 2	10 47.89	+16 57.1	1.314	2.297	4.2	20.2
3 12	10 37.69	+17 31.5	1.328	2.290	8.1	20.4
3 22	10 28.90	+17 46.5	1.366	2.284	12.6	20.6
4 1	10 22.59	+17 40.5	1.427	2.277	16.7	20.9

406102 2006 VV_{3} 3 1.1 84°.43 1°.4/ 2.4 18

1 22	11 17.59	+ 1 3.6	1.851	2.607	16.5	21.8
2 1	11 12.99	+ 1 18.0	1.785	2.636	13.2	21.6
2 11	11 6.04	+ 1 49.1	1.741	2.665	9.2	21.4
2 21	10 57.40	+ 2 33.9	1.722	2.693	4.9	21.2
3 2	10 47.99	+ 3 27.0	1.731	2.721	1.4	21.1
3 12	10 38.89	+ 4 22.0	1.770	2.748	4.5	21.3
3 22	10 31.07	+ 5 12.7	1.836	2.775	8.5	21.6
4 1	10 25.22	+ 5 54.2	1.928	2.801	12.0	21.9

397457 2007 GR_{11} 3 1.1 116°.64 4°.6/26.5 18

1 22	11 17.44	+14 9.4	1.472	2.283	17.5	20.9
2 1	11 13.82	+15 19.9	1.403	2.291	13.7	20.6
2 11	11 7.17	+16 41.6	1.356	2.300	9.4	20.4
2 21	10 58.15	+18 5.2	1.333	2.308	5.5	20.2
3 2	10 47.91	+19 19.7	1.337	2.315	5.2	20.2
3 12	10 37.90	+20 15.6	1.368	2.323	8.8	20.4
3 22	10 29.45	+20 47.6	1.423	2.330	13.0	20.7
4 1	10 23.53	+20 54.7	1.500	2.337	16.8	20.9

397485 2007 RT_{33} 3 1.1 145°.58 2°.5/ 3.7 18

1 22	11 14.42	− 3 50.4	2.000	2.734	16.1	22.0
2 1	11 10.59	− 3 22.6	1.911	2.745	13.2	21.8
2 11	11 4.53	− 2 33.7	1.843	2.754	9.6	21.6
2 21	10 56.75	− 1 25.8	1.800	2.764	5.8	21.3
3 2	10 48.05	− 0 3.7	1.786	2.772	2.6	21.2
3 12	10 39.43	+ 1 25.2	1.801	2.780	4.5	21.3
3 22	10 31.82	+ 2 53.0	1.845	2.787	8.3	21.5
4 1	10 26.01	+ 4 12.6	1.916	2.793	11.9	21.8

499370 2010 AJ_{10} 3 1.1 315°.28 4°.6/ 4.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 14.89	− 4 6.3	1.911	2.647	16.7	20.8
2 1	11 11.29	− 4 51.8	1.809	2.638	14.0	20.6
2 11	11 5.25	− 5 21.1	1.727	2.629	10.7	20.4
2 21	10 57.22	− 5 33.2	1.668	2.620	7.3	20.1
3 2	10 48.00	− 5 28.3	1.636	2.612	4.8	20.0
3 12	10 38.67	− 5 9.7	1.632	2.604	5.7	20.0
3 22	10 30.29	− 4 42.4	1.654	2.596	9.0	20.2
4 1	10 23.80	− 4 12.1	1.702	2.588	12.6	20.4

458845 2011 UV_{59} 3 1.1 170°.25 1°.5/ 2.6 18

1 22	11 16.88	+ 0 12.5	2.091	2.835	15.2	22.6
2 1	11 12.46	+ 0 31.1	1.997	2.840	12.3	22.4
2 11	11 5.79	+ 1 6.5	1.924	2.844	8.7	22.2
2 21	10 57.38	+ 1 56.3	1.878	2.848	4.8	22.0
3 2	10 48.00	+ 2 56.0	1.861	2.850	1.5	21.7
3 12	10 38.66	+ 3 59.5	1.874	2.852	4.4	21.9
3 22	10 30.31	+ 5 0.3	1.916	2.853	8.3	22.2
4 1	10 23.73	+ 5 53.0	1.984	2.853	11.9	22.4

199025 2005 WO_{104} 3 1.1 147°.53 1°.5/ 2.5 18

1 22	11 17.19	+ 0 3.5	1.810	2.565	16.9	21.8
2 1	11 13.01	+ 0 25.9	1.726	2.575	13.6	21.6
2 11	11 6.32	+ 1 7.6	1.662	2.584	9.7	21.4
2 21	10 57.68	+ 2 5.7	1.623	2.593	5.3	21.2
3 2	10 48.00	+ 3 15.0	1.612	2.601	1.6	20.9
3 12	10 38.42	+ 4 27.6	1.630	2.609	4.8	21.2
3 22	10 30.03	+ 5 36.0	1.677	2.615	9.2	21.4
4 1	10 23.68	+ 6 34.0	1.748	2.621	13.0	21.7

500468 2012 TD_{226} 3 1.1 154°.39 3°.5/26.2 17

1 22	11 14.38	+17 24.4	2.534	3.324	11.6	22.2
2 1	11 10.09	+18 8.3	2.452	3.328	9.1	22.1
2 11	11 3.94	+18 55.7	2.395	3.332	6.3	21.9
2 21	10 56.39	+19 41.5	2.366	3.335	3.9	21.7
3 2	10 48.13	+20 20.2	2.366	3.339	3.9	21.7
3 12	10 39.97	+20 47.5	2.396	3.342	6.2	21.9
3 22	10 32.69	+21 0.7	2.454	3.345	8.9	22.1
4 1	10 26.90	+20 58.9	2.536	3.348	11.5	22.2

112423 2002 NH_{47} 3 1.1 240°.04 0°.3/29.9 18

1 22	11 16.82	+ 6 26.9	1.931	2.704	15.3	19.8
2 1	11 12.80	+ 6 43.0	1.827	2.693	12.2	19.6
2 11	11 6.28	+ 7 12.1	1.746	2.680	8.4	19.3
2 21	10 57.74	+ 7 51.0	1.691	2.668	4.1	19.0
3 2	10 47.99	+ 8 34.5	1.664	2.654	0.6	18.7
3 12	10 38.14	+ 9 16.1	1.666	2.641	5.2	19.0
3 22	10 29.29	+ 9 50.5	1.695	2.627	9.6	19.3
4 1	10 22.37	+10 13.3	1.750	2.612	13.6	19.5

376727 1998 QD_{58} 3 1.1 145°.42 0°.3/ 1.4 17

1 22	11 12.49	+ 3 56.2	2.287	3.050	13.5	22.1
2 1	11 8.80	+ 4 21.7	2.197	3.055	10.7	21.9
2 11	11 3.17	+ 5 0.1	2.130	3.060	7.4	21.7
2 21	10 56.06	+ 5 48.4	2.089	3.064	3.7	21.5
3 2	10 48.16	+ 6 42.0	2.077	3.068	0.4	21.2
3 12	10 40.32	+ 7 35.3	2.095	3.072	4.1	21.5
3 22	10 33.35	+ 8 23.2	2.142	3.076	7.8	21.7
4 1	10 27.90	+ 9 1.8	2.215	3.079	11.0	22.0

426357 2013 NW_{3} 3 1.1 112°.39 4°.9/ 5.9 18

1 22	11 15.13	− 8 27.8	2.183	2.885	15.8	22.2
2 1	11 10.96	− 8 53.3	2.096	2.899	13.3	22.0
2 11	11 4.68	− 8 59.9	2.029	2.912	10.4	21.8
2 21	10 56.81	− 8 46.9	1.987	2.925	7.4	21.7
3 2	10 48.09	− 8 15.8	1.971	2.938	5.2	21.5
3 12	10 39.46	− 7 30.6	1.984	2.950	5.5	21.6
3 22	10 31.79	− 6 37.1	2.025	2.963	7.9	21.8
4 1	10 25.79	− 5 41.5	2.093	2.974	10.8	21.9

488852 2005 SX_{17} 3 1.1 175°.28 2°.6/28.5 18

1 22	11 20.73	+11 49.0	1.475	2.275	18.0	22.0
2 1	11 16.50	+12 9.8	1.394	2.275	14.2	21.7
2 11	11 9.10	+12 41.4	1.334	2.276	9.7	21.4
2 21	10 59.17	+13 17.8	1.298	2.276	4.9	21.2
3 2	10 47.86	+13 51.0	1.289	2.277	2.9	21.0
3 12	10 36.70	+14 13.6	1.308	2.277	7.3	21.3
3 22	10 27.09	+14 20.9	1.351	2.276	12.1	21.6
4 1	10 20.12	+14 11.1	1.417	2.276	16.3	21.8

127787 2003 FF_{66} 3 1.1 263°.66 1°.3/29.1 18

1 22	11 14.58	+ 6 53.4	1.623	2.414	17.0	20.5
2 1	11 11.58	+ 7 32.8	1.523	2.399	13.5	20.2
2 11	11 5.78	+ 8 29.9	1.443	2.383	9.3	19.9
2 21	10 57.62	+ 9 39.9	1.389	2.367	4.5	19.6
3 2	10 48.00	+10 55.0	1.361	2.351	1.6	19.3
3 12	10 38.22	+12 5.9	1.362	2.335	6.5	19.6
3 22	10 29.56	+13 4.4	1.388	2.318	11.4	19.8
4 1	10 23.13	+13 44.7	1.437	2.301	15.9	20.1

328584 2009 SG_{46} 3 1.1 160°.28 2°.5/ 3.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 12.84	− 2 3.4	2.039	2.784	15.5	21.2
2 1	11 9.38	− 1 57.7	1.945	2.786	12.7	21.0
2 11	11 3.74	− 1 34.0	1.873	2.788	9.3	20.8
2 21	10 56.41	− 0 53.8	1.825	2.789	5.5	20.6
3 2	10 48.14	− 0 0.7	1.805	2.791	2.6	20.4
3 12	10 39.89	+ 0 59.4	1.814	2.792	4.4	20.5
3 22	10 32.58	+ 2 0.3	1.851	2.793	8.2	20.7
4 1	10 26.98	+ 2 55.7	1.913	2.794	11.7	21.0

281888 2010 LY_{33} 3 1.1 358°.50 10°.0/10.7 17

1 22	11 7.55	−20 58.6	1.138	1.849	27.2	21.0
2 1	11 7.10	−20 52.2	1.055	1.848	24.1	20.8
2 11	11 3.26	−19 53.6	0.983	1.848	20.3	20.5
2 21	10 56.55	−17 55.2	0.927	1.847	15.8	20.2
3 2	10 48.11	−14 56.2	0.891	1.847	11.7	20.0
3 12	10 39.62	−11 9.0	0.880	1.848	10.1	19.9
3 22	10 32.75	− 6 57.5	0.893	1.848	12.7	20.0
4 1	10 28.80	− 2 50.0	0.930	1.849	17.3	20.3

203271 2001 RU_{5} 3 1.1 225°.29 0°.1/ 1.3 17

1 22	11 13.18	+ 5 13.4	2.892	3.645	11.2	21.2
2 1	11 8.99	+ 5 29.8	2.781	3.633	8.9	21.0
2 11	11 3.15	+ 5 55.5	2.694	3.622	6.2	20.8
2 21	10 56.03	+ 6 28.4	2.634	3.609	3.1	20.6
3 2	10 48.18	+ 7 5.0	2.605	3.596	0.3	20.3
3 12	10 40.28	+ 7 41.7	2.607	3.583	3.6	20.6
3 22	10 33.00	+ 8 14.6	2.639	3.569	6.7	20.8
4 1	10 26.93	+ 8 40.7	2.699	3.554	9.6	20.9

107927 2001 FE_{104} 3 1.1 19°.80 1°.8/ 2.2 18

1 22	11 16.76	+ 3 54.6	1.334	2.127	19.9	19.5
2 1	11 13.54	+ 3 24.0	1.259	2.132	16.0	19.2
2 11	11 7.15	+ 3 9.7	1.203	2.137	11.4	19.0
2 21	10 58.24	+ 3 9.9	1.169	2.143	6.1	18.7
3 2	10 47.97	+ 3 20.8	1.160	2.150	1.8	18.4
3 12	10 37.88	+ 3 36.5	1.177	2.157	5.9	18.7
3 22	10 29.38	+ 3 50.9	1.219	2.165	11.0	19.0
4 1	10 23.54	+ 3 58.8	1.283	2.174	15.5	19.3

500350 2012 TG_{10} 3 1.1 125°.90 0°.4/ 1.6 17

1 22	11 12.98	+ 4 7.9	3.018	3.764	10.9	23.0
2 1	11 8.57	+ 4 26.8	2.934	3.782	8.6	22.8
2 11	11 2.67	+ 4 55.0	2.874	3.799	5.9	22.7
2 21	10 55.71	+ 5 29.9	2.842	3.816	3.0	22.5
3 2	10 48.22	+ 6 8.4	2.841	3.832	0.4	22.3
3 12	10 40.84	+ 6 46.7	2.871	3.847	3.2	22.5
3 22	10 34.14	+ 7 21.5	2.932	3.862	6.1	22.7
4 1	10 28.63	+ 7 50.1	3.020	3.877	8.6	22.9

429524 2011 BZ_{70} 3 1.1 191°.25 3°.1/ 4.1 17

1 22	11 16.55	− 3 14.6	2.463	3.181	13.8	21.9
2 1	11 11.91	− 3 32.8	2.358	3.179	11.4	21.7
2 11	11 5.29	− 3 36.9	2.276	3.177	8.6	21.5
2 21	10 57.12	− 3 27.3	2.219	3.175	5.5	21.3
3 2	10 48.08	− 3 5.6	2.192	3.172	3.2	21.1
3 12	10 39.01	− 2 35.2	2.194	3.168	4.3	21.2
3 22	10 30.72	− 2 0.5	2.226	3.164	7.3	21.4
4 1	10 23.93	− 1 26.0	2.285	3.159	10.4	21.6

493412 2014 WC_{211} 3 1.1 142°.07 0°.4/29.8 18

1 22	11 15.39	+ 5 26.3	2.292	3.054	13.5	21.7
2 1	11 11.00	+ 6 3.5	2.208	3.067	10.6	21.5
2 11	11 4.63	+ 6 53.0	2.148	3.079	7.2	21.3
2 21	10 56.76	+ 7 51.0	2.114	3.091	3.5	21.1
3 2	10 48.12	+ 8 52.0	2.111	3.101	0.6	20.9
3 12	10 39.60	+ 9 50.3	2.138	3.111	4.4	21.2
3 22	10 32.01	+10 40.7	2.194	3.121	8.0	21.4
4 1	10 26.02	+11 19.7	2.276	3.129	11.2	21.7

207687 Senckenberg 3 1.1 162°.56 1°.1/ 2.2 18

1 22	11 16.47	+ 1 18.6	2.090	2.841	15.0	21.2
2 1	11 12.12	+ 1 41.2	1.999	2.847	12.1	21.0
2 11	11 5.56	+ 2 19.9	1.930	2.854	8.5	20.8
2 21	10 57.28	+ 3 11.9	1.887	2.859	4.5	20.6
3 2	10 48.08	+ 4 12.4	1.873	2.864	1.1	20.3
3 12	10 38.93	+ 5 15.2	1.890	2.867	4.4	20.6
3 22	10 30.77	+ 6 14.0	1.935	2.870	8.3	20.8
4 1	10 24.39	+ 7 3.7	2.006	2.873	11.9	21.0

126735 2002 CD_{283} 3 1.1 100°.12 0°.9/ 1.9 18

1 22	11 15.01	+ 3 17.5	1.968	2.733	15.3	20.6
2 1	11 11.09	+ 3 21.6	1.882	2.740	12.3	20.4
2 11	11 4.90	+ 3 39.7	1.818	2.746	8.6	20.2
2 21	10 56.96	+ 4 9.3	1.780	2.753	4.5	19.9
3 2	10 48.11	+ 4 46.0	1.769	2.760	0.9	19.7
3 12	10 39.35	+ 5 24.5	1.788	2.766	4.5	20.0
3 22	10 31.65	+ 5 59.4	1.834	2.772	8.5	20.2
4 1	10 25.78	+ 6 26.4	1.906	2.779	12.1	20.4

316654 1993 NF_1 3 1.1 171°.25 3°.7/25.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 15.47	+16 0.7	2.506	3.291	11.8	21.1
2 1	11 11.03	+17 15.3	2.422	3.296	9.2	20.9
2 11	11 4.65	+18 36.0	2.364	3.301	6.4	20.8
2 21	10 56.78	+19 56.5	2.335	3.304	4.0	20.6
3 2	10 48.13	+21 10.0	2.336	3.306	4.2	20.6
3 12	10 39.52	+22 10.6	2.368	3.308	6.6	20.8
3 22	10 31.77	+22 54.5	2.427	3.309	9.4	20.9
4 1	10 25.54	+23 20.2	2.511	3.309	12.0	21.1

354022 2001 QP_{136} 3 1.1 181°.13 3°.1/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.85	− 2 42.3	1.895	2.632	16.8	21.8
2 1	11 13.55	− 2 49.1	1.799	2.633	13.8	21.6
2 11	11 6.74	− 2 37.1	1.724	2.634	10.2	21.3
2 21	10 57.95	− 2 7.0	1.673	2.634	6.3	21.1
3 2	10 48.01	− 1 21.9	1.650	2.634	3.2	20.9
3 12	10 38.06	− 0 27.4	1.655	2.632	5.0	21.0
3 22	10 29.18	+ 0 29.7	1.689	2.630	8.9	21.2
4 1	10 22.28	+ 1 22.7	1.749	2.628	12.7	21.5

410737 2009 CZ_{32} 3 1.1 247°.81 0°.7/29.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.15	+ 7 16.8	1.784	2.565	16.1	22.0
2 1	11 13.28	+ 7 32.5	1.684	2.554	12.8	21.7
2 11	11 6.74	+ 8 1.5	1.606	2.543	8.8	21.5
2 21	10 58.03	+ 8 40.0	1.553	2.531	4.3	21.2
3 2	10 48.02	+ 9 22.4	1.528	2.518	0.9	20.9
3 12	10 37.92	+10 1.9	1.531	2.506	5.6	21.2
3 22	10 28.91	+10 32.6	1.561	2.493	10.3	21.4
4 1	10 22.00	+10 50.5	1.616	2.480	14.4	21.6

336183 2008 RW_{103} 3 1.1 348°.45 2°.2/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.43	+ 0 13.8	1.961	2.718	15.7	20.6
2 1	11 9.96	+ 0 4.9	1.867	2.716	12.7	20.4
2 11	11 4.22	+ 0 11.7	1.795	2.715	9.2	20.2
2 21	10 56.69	+ 0 32.8	1.747	2.715	5.3	19.9
3 2	10 48.16	+ 1 5.1	1.727	2.714	2.3	19.7
3 12	10 39.64	+ 1 43.6	1.735	2.713	4.5	19.9
3 22	10 32.11	+ 2 22.5	1.770	2.713	8.4	20.1
4 1	10 26.37	+ 2 56.8	1.831	2.713	12.1	20.3

440032 2002 PO_{108} 3 1.2 142°.39 0°.2/ 1.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 22.53	+ 6 22.5	1.730	2.500	17.0	22.0
2 1	11 17.28	+ 6 33.3	1.650	2.512	13.4	21.8
2 11	11 9.28	+ 6 57.4	1.591	2.524	9.2	21.5
2 21	10 59.16	+ 7 31.0	1.558	2.534	4.5	21.3
3 2	10 47.94	+ 8 8.3	1.553	2.544	0.5	21.0
3 12	10 36.92	+ 8 43.1	1.578	2.554	5.4	21.4
3 22	10 27.28	+ 9 9.8	1.631	2.562	10.0	21.6
4 1	10 19.94	+ 9 25.1	1.708	2.569	13.9	21.9

68969 2002 RW_{101} 3 1.2 55°.55 1°.8/ 2.7 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.57	− 0 8.9	1.481	2.256	19.1	19.2
2 1	11 11.22	+ 0 8.7	1.421	2.282	15.3	19.0
2 11	11 5.17	+ 0 48.2	1.381	2.308	10.8	18.8
2 21	10 57.11	+ 1 45.9	1.364	2.335	5.9	18.6
3 2	10 48.14	+ 2 55.0	1.373	2.362	1.8	18.4
3 12	10 39.53	+ 4 6.7	1.409	2.389	5.1	18.7
3 22	10 32.39	+ 5 12.5	1.472	2.416	9.7	19.0
4 1	10 27.54	+ 6 6.1	1.558	2.444	13.6	19.3

207963 1995 SM_{20} 3 1.2 98°.31 3°.5/26.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.49	+17 36.4	2.399	3.190	12.2	20.1
2 1	11 11.04	+18 10.5	2.322	3.198	9.5	19.9
2 11	11 4.62	+18 47.6	2.268	3.205	6.6	19.7
2 21	10 56.75	+19 22.6	2.242	3.213	4.1	19.6
3 2	10 48.17	+19 50.2	2.246	3.220	3.9	19.6
3 12	10 39.75	+20 6.2	2.278	3.227	6.2	19.7
3 22	10 32.28	+20 8.4	2.338	3.234	9.1	19.9
4 1	10 26.42	+19 56.1	2.423	3.241	11.8	20.1

500650 2012 VL_{13} 3 1.2 149°.14 1°.3/28.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.41	+ 9 36.7	2.554	3.330	11.9	22.1
2 1	11 8.53	+10 8.9	2.465	3.334	9.3	21.9
2 11	11 2.89	+10 49.3	2.401	3.338	6.3	21.7
2 21	10 55.92	+11 34.2	2.365	3.342	3.0	21.5
3 2	10 48.25	+12 18.9	2.358	3.346	1.5	21.4
3 12	10 40.65	+12 58.6	2.381	3.350	4.5	21.6
3 22	10 33.84	+13 29.8	2.433	3.353	7.7	21.8
4 1	10 28.42	+13 49.9	2.511	3.356	10.5	22.0

58325 1994 RE_{11} 3 1.2 103°.49 1°.3/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.02	− 1 20.9	2.195	2.931	14.8	21.2
2 1	11 11.44	− 0 31.7	2.124	2.962	11.8	21.0
2 11	11 4.86	+ 0 35.2	2.074	2.992	8.3	20.8
2 21	10 56.85	+ 1 56.1	2.052	3.021	4.5	20.7
3 2	10 48.18	+ 3 25.1	2.060	3.050	1.3	20.5
3 12	10 39.73	+ 4 54.9	2.099	3.077	4.0	20.7
3 22	10 32.32	+ 6 18.7	2.168	3.103	7.6	21.0
4 1	10 26.58	+ 7 31.2	2.264	3.129	10.8	21.2

249430 2009 EJ_{27} 3 1.2 182°.54 1°.2/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 15.14	+ 7 16.2	2.091	2.866	14.2	21.5
2 1	11 11.16	+ 8 4.3	1.999	2.867	11.2	21.3
2 11	11 4.96	+ 9 5.7	1.931	2.867	7.6	21.1
2 21	10 57.03	+10 15.5	1.889	2.867	3.6	20.8
3 2	10 48.15	+11 27.5	1.877	2.866	1.5	20.7
3 12	10 39.29	+12 34.3	1.894	2.864	5.3	20.9
3 22	10 31.39	+13 30.1	1.940	2.862	9.2	21.1
4 1	10 25.24	+14 11.0	2.011	2.859	12.6	21.3

34435 2000 SR_{39} 3 1.2 353°.98 8°.6/23.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.60	+26 49.6	1.561	2.378	16.3	18.3
2 1	11 14.85	+27 50.4	1.492	2.375	13.3	18.1
2 11	11 7.95	+28 48.5	1.445	2.372	10.5	17.9
2 21	10 58.60	+29 33.1	1.422	2.370	8.7	17.8
3 2	10 48.01	+29 54.7	1.423	2.369	9.3	17.9
3 12	10 37.71	+29 47.2	1.450	2.368	11.8	18.0
3 22	10 29.06	+29 10.3	1.500	2.368	14.9	18.2
4 1	10 23.06	+28 7.2	1.569	2.368	17.9	18.4

286710 2002 GY_{67} 3 1.2 282°.02 5°.1/26.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.25	+16 57.5	1.575	2.387	16.5	20.4
2 1	11 13.80	+17 48.7	1.487	2.375	13.1	20.1
2 11	11 7.34	+18 47.9	1.420	2.362	9.2	19.8
2 21	10 58.40	+19 47.0	1.378	2.350	5.8	19.6
3 2	10 48.02	+20 36.1	1.362	2.338	5.6	19.6
3 12	10 37.61	+21 7.0	1.373	2.325	9.1	19.7
3 22	10 28.56	+21 14.9	1.409	2.313	13.3	19.9
4 1	10 21.97	+20 59.2	1.465	2.301	17.2	20.1

223771 2004 RL_{308} 3 1.2 131°.54 4°.5/ 5.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.49	− 7 25.7	2.090	2.807	16.0	20.4
2 1	11 9.09	− 7 37.9	1.996	2.810	13.4	20.2
2 11	11 3.55	− 7 30.0	1.921	2.814	10.4	20.0
2 21	10 56.35	− 7 2.0	1.871	2.817	7.2	19.8
3 2	10 48.22	− 6 15.8	1.847	2.821	4.7	19.7
3 12	10 40.11	− 5 16.3	1.852	2.824	5.2	19.7
3 22	10 32.92	− 4 9.9	1.885	2.827	8.1	19.9
4 1	10 27.40	− 3 3.5	1.943	2.830	11.3	20.1

204972 1993 QV_8 3 1.2 199°.44 0°.7/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.65	+ 5 30.5	1.943	2.716	15.2	21.5
2 1	11 11.79	+ 6 14.5	1.847	2.712	12.1	21.2
2 11	11 5.54	+ 7 14.4	1.774	2.709	8.3	21.0
2 21	10 57.38	+ 8 25.7	1.727	2.704	4.0	20.7
3 2	10 48.13	+ 9 41.7	1.709	2.699	1.0	20.5
3 12	10 38.85	+10 54.5	1.720	2.693	5.3	20.8
3 22	10 30.58	+11 57.3	1.759	2.687	9.6	21.0
4 1	10 24.18	+12 45.1	1.823	2.679	13.4	21.2

79171 1993 FM_{37} 3 1.2 234°.59 0°.2/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.18	+ 5 33.7	2.819	3.579	11.3	20.7
2 1	11 7.51	+ 6 2.0	2.710	3.567	9.0	20.5
2 11	11 2.20	+ 6 40.5	2.624	3.555	6.1	20.3
2 21	10 55.61	+ 7 26.5	2.567	3.543	3.0	20.1
3 2	10 48.30	+ 8 16.2	2.539	3.530	0.4	19.8
3 12	10 40.94	+ 9 5.1	2.543	3.517	3.7	20.1
3 22	10 34.20	+ 9 49.0	2.575	3.504	6.9	20.3
4 1	10 28.66	+10 24.6	2.635	3.490	9.8	20.5

374086 2004 RX_{205} 3 1.2 201°.13 1°.8/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.31	+ 1 28.2	2.415	3.151	13.6	21.2
2 1	11 13.33	+ 1 12.1	2.310	3.148	11.0	21.0
2 11	11 6.30	+ 1 7.4	2.227	3.144	7.9	20.8
2 21	10 57.66	+ 1 13.0	2.172	3.139	4.5	20.6
3 2	10 48.11	+ 1 26.7	2.146	3.134	1.8	20.4
3 12	10 38.53	+ 1 45.0	2.151	3.128	4.0	20.5
3 22	10 29.77	+ 2 4.1	2.186	3.122	7.5	20.7
4 1	10 22.58	+ 2 20.3	2.248	3.116	10.7	20.9

321592 2009 UK_{94} 3 1.2 192°.15 0°.8/ 2.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.47	+ 2 3.0	2.309	3.062	13.7	21.9
2 1	11 9.64	+ 2 27.7	2.210	3.061	11.0	21.7
2 11	11 3.82	+ 3 6.9	2.134	3.059	7.7	21.5
2 21	10 56.45	+ 3 58.0	2.084	3.056	4.0	21.3
3 2	10 48.22	+ 4 56.5	2.063	3.054	0.8	21.0
3 12	10 39.99	+ 5 56.8	2.073	3.050	4.0	21.3
3 22	10 32.58	+ 6 53.3	2.111	3.046	7.8	21.5
4 1	10 26.70	+ 7 41.4	2.176	3.042	11.1	21.7

280412 2003 WC_{132} 3 1.2 96°.39 3°.8/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.30	− 6 37.0	2.213	2.932	15.2	20.7
2 1	11 7.99	− 6 39.7	2.121	2.939	12.6	20.5
2 11	11 2.70	− 6 23.3	2.050	2.946	9.6	20.3
2 21	10 55.90	− 5 48.3	2.003	2.953	6.5	20.2
3 2	10 48.28	− 4 57.4	1.983	2.959	4.1	20.0
3 12	10 40.70	− 3 55.4	1.992	2.966	4.7	20.1
3 22	10 34.00	− 2 48.5	2.030	2.972	7.5	20.2
4 1	10 28.84	− 1 43.0	2.093	2.979	10.6	20.4

207482 2006 HN_{31} 3 1.2 323°.59 5°.3/26.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 11.69	+14 48.5	1.252	2.085	18.7	20.4
2 1	11 10.16	+15 47.3	1.167	2.068	14.8	20.1
2 11	11 5.28	+16 59.9	1.102	2.052	10.3	19.8
2 21	10 57.56	+18 17.0	1.060	2.036	6.2	19.6
3 2	10 48.11	+19 26.3	1.042	2.021	6.0	19.5
3 12	10 38.55	+20 16.0	1.048	2.007	10.2	19.7
3 22	10 30.52	+20 38.9	1.076	1.994	15.1	19.9
4 1	10 25.29	+20 32.9	1.123	1.982	19.7	20.1

51894 2001 QU_{26} 3 1.2 84°.97 3°.1/26.8 18

1 22	11 13.53	+14 54.5	2.297	3.089	12.6	18.8
2 1	11 9.56	+15 43.7	2.227	3.105	9.7	18.6
2 11	11 3.64	+16 38.3	2.181	3.120	6.6	18.5
2 21	10 56.29	+17 32.9	2.162	3.136	3.8	18.3
3 2	10 48.26	+18 21.5	2.173	3.151	3.5	18.3
3 12	10 40.41	+18 59.0	2.213	3.166	6.1	18.5
3 22	10 33.52	+19 22.2	2.280	3.181	9.1	18.7
4 1	10 28.24	+19 29.9	2.372	3.196	11.8	18.9

216531 2001 QA_{135} 3 1.2 213°.47 3°.5/ 5.3 17

1 22	11 13.99	− 7 22.4	2.668	3.363	13.4	22.1
2 1	11 9.86	− 7 16.2	2.550	3.353	11.2	22.0
2 11	11 3.90	− 6 52.7	2.455	3.342	8.6	21.8
2 21	10 56.50	− 6 12.3	2.385	3.331	5.9	21.6
3 2	10 48.24	− 5 16.8	2.344	3.319	3.7	21.4
3 12	10 39.89	− 4 10.3	2.334	3.305	4.3	21.4
3 22	10 32.19	− 2 58.4	2.353	3.291	6.9	21.6
4 1	10 25.81	− 1 46.7	2.401	3.276	9.9	21.7

77871 2001 SC_{9} 3 1.2 170°.17 5°.1/24.3 18

1 22	11 15.01	+22 44.6	2.510	3.305	11.5	18.9
2 1	11 10.71	+23 41.6	2.432	3.307	9.2	18.7
2 11	11 4.45	+24 38.9	2.380	3.309	6.8	18.6
2 21	10 56.72	+25 30.6	2.354	3.310	5.2	18.5
3 2	10 48.23	+26 10.6	2.358	3.311	5.6	18.5
3 12	10 39.85	+26 34.5	2.390	3.312	7.6	18.6
3 22	10 32.39	+26 40.2	2.449	3.312	10.0	18.8
4 1	10 26.52	+26 27.9	2.531	3.313	12.3	19.0

419610 2010 RL_{141} 3 1.2 215°.82 0°.6/ 1.7 17

1 22	11 15.68	+ 3 8.7	2.069	2.829	14.9	22.8
2 1	11 11.70	+ 3 30.0	1.966	2.821	11.9	22.5
2 11	11 5.44	+ 4 6.6	1.885	2.813	8.4	22.3
2 21	10 57.34	+ 4 55.5	1.830	2.805	4.3	22.0
3 2	10 48.17	+ 5 52.1	1.805	2.795	0.6	21.7
3 12	10 38.93	+ 6 50.0	1.808	2.785	4.6	22.0
3 22	10 30.60	+ 7 43.1	1.840	2.775	8.8	22.2
4 1	10 24.04	+ 8 26.5	1.898	2.764	12.5	22.4

238312 2003 YB_{40} 3 1.2 10°.70 1°.6/28.6 17

1 22	11 11.63	+ 9 27.3	1.970	2.763	14.4	20.8
2 1	11 8.52	+10 1.7	1.886	2.763	11.3	20.6
2 11	11 3.21	+10 47.0	1.824	2.765	7.6	20.4
2 21	10 56.20	+11 38.5	1.788	2.766	3.7	20.1
3 2	10 48.28	+12 30.1	1.780	2.768	1.9	20.0
3 12	10 40.44	+13 15.4	1.800	2.770	5.5	20.2
3 22	10 33.61	+13 49.4	1.848	2.773	9.4	20.5
4 1	10 28.54	+14 9.1	1.919	2.776	12.8	20.7

460831 2014 WA_{68} 3 1.2 102°.46 1°.0/29.3 18

1 22	11 13.99	+ 7 12.9	1.802	2.589	15.7	21.5
2 1	11 10.57	+ 7 47.6	1.719	2.593	12.4	21.3
2 11	11 4.72	+ 8 36.3	1.658	2.596	8.4	21.1
2 21	10 56.97	+ 9 34.2	1.622	2.600	4.0	20.8
3 2	10 48.21	+10 34.6	1.614	2.604	1.3	20.6
3 12	10 39.54	+11 30.1	1.635	2.608	5.6	20.9
3 22	10 32.01	+12 14.6	1.682	2.612	9.8	21.2
4 1	10 26.45	+12 44.3	1.754	2.615	13.6	21.4

299005 2004 XJ_{92} 3 1.2 91°.50 3°.6/27.4 18

1 22	11 19.84	+13 37.1	1.590	2.390	16.9	20.8
2 1	11 15.30	+14 28.0	1.529	2.411	13.1	20.6
2 11	11 7.95	+15 27.9	1.490	2.431	8.9	20.4
2 21	10 58.50	+16 28.8	1.475	2.451	4.9	20.2
3 2	10 48.09	+17 22.1	1.489	2.471	4.1	20.2
3 12	10 38.06	+18 0.3	1.530	2.490	7.6	20.4
3 22	10 29.58	+18 19.6	1.597	2.509	11.6	20.7
4 1	10 23.50	+18 19.3	1.687	2.527	15.1	21.0

168495 1999 RB_{188} 3 1.2 83°.21 1°.2/29.2 18

1 22	11 16.79	+ 7 11.5	1.622	2.411	17.1	20.4
2 1	11 12.84	+ 7 51.5	1.557	2.431	13.4	20.2
2 11	11 6.24	+ 8 46.2	1.513	2.452	9.0	20.0
2 21	10 57.68	+ 9 49.8	1.494	2.472	4.3	19.7
3 2	10 48.17	+10 54.4	1.502	2.492	1.5	19.6
3 12	10 38.97	+11 51.9	1.539	2.512	5.9	19.9
3 22	10 31.17	+12 36.3	1.602	2.531	10.3	20.2
4 1	10 25.59	+13 4.2	1.689	2.551	14.0	20.5

310150 2011 OV_{57} 3 1.2 166°.78 4°.1/24.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 12.04	+21 10.3	3.093	3.883	9.7	21.2
2 1	11 8.02	+22 17.6	3.014	3.888	7.6	21.1
2 11	11 2.45	+23 26.5	2.961	3.891	5.6	21.0
2 21	10 55.71	+24 31.6	2.938	3.895	4.2	20.9
3 2	10 48.36	+25 28.0	2.945	3.898	4.6	20.9
3 12	10 41.07	+26 11.6	2.981	3.901	6.3	21.0
3 22	10 34.45	+26 39.9	3.045	3.903	8.4	21.2
4 1	10 29.05	+26 52.3	3.133	3.905	10.4	21.3

316815 1999 VO_{167} 3 1.2 100°.17 4°.3/26.5 18

1 22	11 20.79	+16 30.8	1.867	2.660	15.0	21.4
2 1	11 15.59	+17 28.6	1.809	2.686	11.7	21.2
2 11	11 7.90	+18 31.4	1.773	2.711	8.0	21.1
2 21	10 58.41	+19 31.6	1.765	2.736	4.9	20.9
3 2	10 48.12	+20 21.6	1.785	2.759	4.7	21.0
3 12	10 38.21	+20 55.2	1.834	2.782	7.5	21.2
3 22	10 29.70	+21 9.8	1.910	2.805	10.9	21.4
4 1	10 23.33	+21 5.4	2.009	2.827	13.8	21.7

347549 2000 SW_{5} 3 1.2 136°.26 4°.7/ 7.9 17

1 22	11 10.32	−13 35.5	3.048	3.702	12.6	21.7
2 1	11 6.65	−13 38.3	2.950	3.714	10.8	21.6
2 11	11 1.50	−13 23.9	2.873	3.725	8.7	21.4
2 21	10 55.24	−12 52.0	2.821	3.735	6.6	21.3
3 2	10 48.40	−12 4.0	2.796	3.746	5.0	21.2
3 12	10 41.61	−11 3.1	2.800	3.755	4.8	21.2
3 22	10 35.45	− 9 53.8	2.834	3.765	6.2	21.3
4 1	10 30.43	− 8 41.3	2.896	3.774	8.3	21.5

171397 2006 QT_{40} 3 1.2 98°.72 4°.1/25.3 18

1 22	11 12.16	+17 36.8	2.362	3.161	12.1	20.2
2 1	11 8.55	+18 44.9	2.290	3.171	9.4	20.0
2 11	11 3.01	+19 57.3	2.242	3.180	6.6	19.9
2 21	10 56.03	+21 7.8	2.222	3.190	4.4	19.7
3 2	10 48.34	+22 9.8	2.231	3.199	4.6	19.8
3 12	10 40.76	+22 57.7	2.269	3.208	6.9	19.9
3 22	10 34.09	+23 28.4	2.334	3.218	9.7	20.1
4 1	10 28.97	+23 40.9	2.423	3.227	12.2	20.3

117117 2004 PJ_{16} 3 1.2 46°.80 2°.2/28.8 18

1 22	11 19.42	+11 9.4	1.407	2.211	18.5	19.4
2 1	11 15.57	+11 23.0	1.332	2.215	14.6	19.2
2 11	11 8.53	+11 47.8	1.276	2.219	9.9	18.9
2 21	10 58.97	+12 18.2	1.244	2.223	4.9	18.6
3 2	10 48.07	+12 46.5	1.239	2.227	2.5	18.5
3 12	10 37.38	+13 5.5	1.260	2.231	7.1	18.8
3 22	10 28.30	+13 10.5	1.306	2.236	12.0	19.1
4 1	10 21.90	+12 59.4	1.374	2.240	16.3	19.3

354361 2003 HS_{58} 3 1.2 250°.14 1°.4/28.7 17

1 22	11 12.43	+ 3 15.3	1.810	2.586	16.1	21.8
2 1	11 9.65	+ 4 51.9	1.701	2.570	12.8	21.6
2 11	11 4.37	+ 6 54.0	1.616	2.553	8.7	21.3
2 21	10 56.97	+ 9 15.8	1.557	2.535	4.1	21.0
3 2	10 48.24	+11 47.1	1.528	2.517	1.8	20.8
3 12	10 39.28	+14 15.0	1.530	2.499	6.5	21.0
3 22	10 31.22	+16 27.4	1.560	2.479	11.2	21.2
4 1	10 25.10	+18 16.0	1.615	2.460	15.4	21.4

208364 2001 RL_{123} 3 1.2 42°.61 1°.9/28.7 18

1 22	11 16.21	+11 51.0	1.888	2.680	14.9	19.9
2 1	11 12.01	+12 3.3	1.820	2.697	11.6	19.7
2 11	11 5.48	+12 23.0	1.774	2.714	7.8	19.5
2 21	10 57.26	+12 45.6	1.754	2.732	3.9	19.3
3 2	10 48.24	+13 5.8	1.762	2.750	2.1	19.2
3 12	10 39.50	+13 18.7	1.799	2.768	5.6	19.4
3 22	10 31.99	+13 21.1	1.863	2.787	9.4	19.7
4 1	10 26.43	+13 11.7	1.951	2.806	12.7	19.9

109525 2001 QQ_{245} 3 1.2 234°.60 3°.7/27.3 17

1 22	11 21.20	+16 48.9	1.992	2.781	14.4	19.9
2 1	11 16.16	+17 12.1	1.898	2.773	11.4	19.7
2 11	11 8.53	+17 39.4	1.828	2.765	7.9	19.5
2 21	10 58.87	+18 5.2	1.784	2.756	4.6	19.3
3 2	10 48.09	+18 23.2	1.769	2.748	4.0	19.2
3 12	10 37.36	+18 28.2	1.783	2.739	7.0	19.4
3 22	10 27.79	+18 17.5	1.824	2.729	10.7	19.6
4 1	10 20.29	+17 50.8	1.890	2.720	14.1	19.8

281754 2009 BT_{12} 3 1.2 47°.57 4°.4/ 5.4 17

1 22	11 12.13	− 6 18.6	2.069	2.793	15.9	20.6
2 1	11 8.78	− 6 40.4	1.982	2.803	13.3	20.4
2 11	11 3.32	− 6 43.5	1.916	2.812	10.2	20.2
2 21	10 56.26	− 6 27.8	1.874	2.822	7.0	20.0
3 2	10 48.33	− 5 55.2	1.858	2.832	4.6	19.9
3 12	10 40.48	− 5 10.2	1.871	2.843	5.1	20.0
3 22	10 33.58	− 4 18.6	1.911	2.853	7.9	20.1
4 1	10 28.36	− 3 26.6	1.976	2.864	11.1	20.4

160754 2000 SM_{88} 3 1.2 125°.31 2°.8/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 18.64	+11 52.6	1.799	2.590	15.6	21.0
2 1	11 14.15	+12 41.6	1.727	2.603	12.2	20.8
2 11	11 7.10	+13 40.6	1.677	2.617	8.2	20.6
2 21	10 58.13	+14 43.1	1.653	2.630	4.2	20.4
3 2	10 48.18	+15 41.3	1.658	2.642	3.2	20.3
3 12	10 38.46	+16 27.9	1.691	2.653	6.7	20.6
3 22	10 30.03	+16 58.4	1.751	2.665	10.6	20.8
4 1	10 23.73	+17 10.9	1.835	2.675	14.0	21.1

140410 2001 TJ_{81} 3 1.2 240°.48 4°.8/ 7.6 17

1 22	11 10.30	−13 25.2	2.870	3.531	13.2	21.5
2 1	11 6.91	−13 20.3	2.746	3.515	11.4	21.3
2 11	11 1.88	−12 56.2	2.643	3.499	9.2	21.1
2 21	10 55.53	−12 12.4	2.563	3.483	7.0	21.0
3 2	10 48.41	−11 9.8	2.512	3.466	5.2	20.8
3 12	10 41.19	− 9 52.1	2.489	3.449	5.1	20.8
3 22	10 34.54	− 8 24.2	2.497	3.431	6.8	20.9
4 1	10 29.07	− 6 52.6	2.532	3.413	9.2	21.0

101496 1998 XM_{3} 3 1.2 109°.89 3°.2/26.9 18 R

1 22	11 20.78	+15 17.7	2.307	3.085	13.0	20.0
2 1	11 15.07	+16 8.3	2.245	3.114	10.1	19.9
2 11	11 7.30	+17 3.4	2.208	3.143	6.8	19.7
2 21	10 58.07	+17 57.4	2.199	3.171	3.9	19.6
3 2	10 48.20	+18 44.0	2.220	3.197	3.6	19.6
3 12	10 38.64	+19 18.3	2.272	3.223	6.1	19.8
3 22	10 30.21	+19 37.9	2.353	3.248	9.1	20.0
4 1	10 23.56	+19 42.0	2.458	3.272	11.7	20.2

431539 2007 TP_{381} 3 1.2 155°.63 2°.0/ 3.6 17

1 22	11 10.65	− 2 30.6	2.596	3.326	12.9	21.7
2 1	11 7.18	− 2 8.7	2.499	3.331	10.5	21.6
2 11	11 2.01	− 1 31.4	2.424	3.335	7.6	21.4
2 21	10 55.56	− 0 40.6	2.376	3.339	4.5	21.2
3 2	10 48.42	+ 0 20.4	2.357	3.343	2.1	21.0
3 12	10 41.31	+ 1 26.6	2.368	3.347	3.6	21.1
3 22	10 34.91	+ 2 32.7	2.409	3.350	6.6	21.3
4 1	10 29.82	+ 3 33.8	2.477	3.353	9.6	21.5

108678 2001 OA_{6} 3 1.2 157°.97 3°.1/ 5.0 18

1 22	11 11.50	− 5 50.5	2.750	3.457	12.7	20.4
2 1	11 7.74	− 5 48.4	2.651	3.463	10.6	20.3
2 11	11 2.35	− 5 31.0	2.574	3.468	8.0	20.1
2 21	10 55.71	− 4 59.1	2.522	3.472	5.3	19.9
3 2	10 48.41	− 4 14.8	2.500	3.476	3.3	19.8
3 12	10 41.13	− 3 22.1	2.507	3.480	3.9	19.9
3 22	10 34.53	− 2 25.5	2.544	3.484	6.4	20.0
4 1	10 29.18	− 1 29.9	2.608	3.487	9.1	20.2

292570 2006 TW_{78} 3 1.2 233°.65 3°.2/ 5.0 17

1 22	11 10.19	− 5 50.0	2.605	3.319	13.2	21.1
2 1	11 6.90	− 5 48.5	2.498	3.314	11.0	20.9
2 11	11 1.89	− 5 30.8	2.412	3.308	8.4	20.7
2 21	10 55.54	− 4 57.4	2.351	3.302	5.6	20.5
3 2	10 48.43	− 4 10.5	2.319	3.296	3.4	20.3
3 12	10 41.28	− 3 14.2	2.316	3.290	4.1	20.4
3 22	10 34.79	− 2 13.3	2.342	3.284	6.7	20.5
4 1	10 29.60	− 1 13.4	2.396	3.277	9.6	20.7

203504 2002 AS_{126} 3 1.2 270°.62 1°.9/28.6 17

1 22	11 14.35	+ 7 51.8	1.678	2.470	16.5	20.4
2 1	11 11.44	+ 8 41.1	1.571	2.449	13.1	20.1
2 11	11 5.77	+ 9 48.1	1.486	2.427	9.0	19.8
2 21	10 57.75	+11 7.6	1.426	2.405	4.4	19.5
3 2	10 48.22	+12 31.4	1.394	2.382	2.2	19.3
3 12	10 38.43	+13 49.7	1.389	2.359	6.8	19.5
3 22	10 29.66	+14 54.0	1.410	2.336	11.7	19.7
4 1	10 23.05	+15 38.5	1.455	2.312	16.1	19.9

452353 2001 UR_{15} 3 1.2 112°.95 3°.2/ 3.9 18

1 22	11 18.59	− 3 28.9	1.773	2.510	17.8	22.2
2 1	11 14.09	− 3 28.1	1.697	2.531	14.5	22.0
2 11	11 7.06	− 3 6.3	1.641	2.551	10.7	21.8
2 21	10 58.12	− 2 25.0	1.609	2.570	6.5	21.6
3 2	10 48.21	− 1 28.5	1.605	2.589	3.3	21.4
3 12	10 38.52	− 0 23.6	1.629	2.606	5.0	21.6
3 22	10 30.10	+ 0 42.2	1.682	2.624	8.9	21.8
4 1	10 23.78	+ 1 41.9	1.759	2.640	12.6	22.1

346845 2009 DA_{96} 3 1.2 293°.45 1°.5/28.8 17

1 22	11 15.36	+11 19.5	2.294	3.075	13.0	20.6
2 1	11 11.13	+11 31.9	2.201	3.072	10.2	20.4
2 11	11 4.85	+11 51.2	2.132	3.069	6.9	20.2
2 21	10 57.00	+12 13.6	2.090	3.067	3.4	20.0
3 2	10 48.31	+12 34.9	2.076	3.064	1.8	19.8
3 12	10 39.68	+12 50.5	2.093	3.062	5.0	20.1
3 22	10 31.95	+12 57.4	2.138	3.060	8.5	20.3
4 1	10 25.84	+12 53.6	2.208	3.057	11.6	20.5

171968 2001 TF_{108} 3 1.2 98°.06 1°.3/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 12.70	+ 1 46.5	2.341	3.094	13.5	20.2
2 1	11 8.97	+ 1 49.2	2.249	3.097	10.9	20.0
2 11	11 3.33	+ 2 4.7	2.179	3.101	7.7	19.8
2 21	10 56.24	+ 2 31.1	2.135	3.105	4.2	19.6
3 2	10 48.38	+ 3 5.0	2.119	3.109	1.3	19.4
3 12	10 40.56	+ 3 42.1	2.134	3.112	3.8	19.6
3 22	10 33.57	+ 4 17.8	2.177	3.116	7.3	19.8
4 1	10 28.08	+ 4 48.1	2.246	3.120	10.5	20.0

373439 1999 TF_{226} 3 1.2 169°.51 1°.2/ 2.5 17

1 22	11 13.04	+ 0 44.1	2.399	3.145	13.4	22.2
2 1	11 9.21	+ 1 4.0	2.303	3.148	10.8	22.0
2 11	11 3.49	+ 1 38.3	2.230	3.151	7.7	21.8
2 21	10 56.33	+ 2 24.7	2.183	3.153	4.2	21.6
3 2	10 48.38	+ 3 19.2	2.165	3.155	1.3	21.4
3 12	10 40.46	+ 4 16.7	2.178	3.156	3.8	21.5
3 22	10 33.34	+ 5 11.9	2.220	3.157	7.3	21.8
4 1	10 27.67	+ 6 0.1	2.288	3.158	10.5	22.0

123240 2000 UU_{59} 3 1.2 236°.02 0°.2/ 1.0 17

1 22	11 18.89	+ 6 11.2	2.005	2.771	15.1	20.5
2 1	11 14.44	+ 6 26.6	1.895	2.756	12.1	20.2
2 11	11 7.48	+ 6 54.9	1.808	2.740	8.4	20.0
2 21	10 58.46	+ 7 33.0	1.746	2.723	4.1	19.7
3 2	10 48.18	+ 8 15.9	1.714	2.705	0.5	19.3
3 12	10 37.72	+ 8 57.6	1.711	2.686	5.1	19.6
3 22	10 28.21	+ 9 32.5	1.737	2.667	9.5	19.9
4 1	10 20.58	+ 9 56.4	1.788	2.647	13.5	20.1

32436 2000 RQ_{97} 3 1.2 75°.54 9°.9/ 9.1 18

1 22	11 18.89	−17 20.1	1.991	2.639	18.6	17.8
2 1	11 14.51	−18 56.7	1.899	2.643	16.6	17.6
2 11	11 7.57	−20 12.2	1.826	2.648	14.2	17.4
2 21	10 58.51	−21 1.6	1.773	2.653	12.0	17.3
3 2	10 48.19	−21 21.6	1.745	2.658	10.3	17.2
3 12	10 37.75	−21 12.8	1.742	2.662	10.0	17.2
3 22	10 28.33	−20 39.4	1.764	2.667	11.1	17.3
4 1	10 20.92	−19 49.0	1.810	2.672	13.2	17.4

298837 2004 RO_{181} 3 1.2 159°.00 2°.2/ 3.3 18

1 22	11 16.39	− 2 3.7	1.983	2.722	16.1	21.4
2 1	11 12.25	− 1 44.3	1.892	2.730	13.1	21.2
2 11	11 5.79	− 1 5.5	1.822	2.737	9.5	21.0
2 21	10 57.53	− 0 9.4	1.778	2.744	5.5	20.8
3 2	10 48.29	+ 0 59.5	1.762	2.749	2.3	20.6
3 12	10 39.10	+ 2 14.4	1.775	2.754	4.5	20.7
3 22	10 30.94	+ 3 27.9	1.817	2.758	8.5	21.0
4 1	10 24.63	+ 4 33.5	1.886	2.761	12.1	21.2

343510 2010 EH_{112} 3 1.2 343°.60 2°.6/28.1 17

1 22	11 14.26	+13 9.7	1.854	2.654	14.9	20.4
2 1	11 10.83	+13 29.7	1.766	2.648	11.7	20.2
2 11	11 4.96	+13 57.4	1.701	2.643	8.0	19.9
2 21	10 57.17	+14 27.5	1.661	2.638	4.1	19.7
3 2	10 48.33	+14 54.1	1.648	2.633	2.9	19.6
3 12	10 39.55	+15 11.4	1.663	2.630	6.4	19.8
3 22	10 31.88	+15 15.8	1.705	2.626	10.3	20.0
4 1	10 26.19	+15 5.4	1.770	2.623	13.9	20.2

284978 2010 GG_{104} 3 1.2 260°.93 0°.5/ 1.8 17

1 22	11 10.67	+ 2 57.6	2.321	3.083	13.4	21.2
2 1	11 7.49	+ 3 23.1	2.221	3.078	10.7	21.0
2 11	11 2.41	+ 4 2.5	2.144	3.072	7.5	20.8
2 21	10 55.84	+ 4 53.0	2.093	3.067	3.8	20.6
3 2	10 48.44	+ 5 50.2	2.071	3.062	0.5	20.3
3 12	10 41.03	+ 6 48.6	2.078	3.056	4.0	20.6
3 22	10 34.39	+ 7 42.7	2.114	3.050	7.7	20.8
4 1	10 29.20	+ 8 28.0	2.176	3.045	11.0	21.0

190072 2004 SW_{22} 3 1.2 170°.56 0°.6/ 1.8 17

1 22	11 13.67	+ 3 16.9	2.223	2.983	14.0	21.2
2 1	11 9.87	+ 3 36.5	2.130	2.985	11.1	21.0
2 11	11 4.04	+ 4 9.7	2.059	2.987	7.8	20.8
2 21	10 56.64	+ 4 53.6	2.014	2.988	4.0	20.6
3 2	10 48.38	+ 5 43.9	1.999	2.989	0.6	20.3
3 12	10 40.16	+ 6 35.1	2.013	2.990	4.2	20.6
3 22	10 32.81	+ 7 21.8	2.055	2.991	7.9	20.8
4 1	10 27.06	+ 7 59.8	2.124	2.991	11.3	21.0

105098 2000 LA_{6} 3 1.2 192°.72 3°.2/ 4.8 17

1 22	11 14.33	− 5 42.2	2.579	3.285	13.5	21.1
2 1	11 10.15	− 5 39.5	2.471	3.283	11.3	20.9
2 11	11 4.12	− 5 20.3	2.385	3.280	8.5	20.8
2 21	10 56.66	− 4 45.3	2.325	3.276	5.6	20.6
3 2	10 48.38	− 3 56.7	2.294	3.272	3.4	20.4
3 12	10 40.05	− 2 58.6	2.293	3.267	4.2	20.4
3 22	10 32.44	− 1 56.4	2.322	3.261	7.0	20.6
4 1	10 26.22	− 0 55.4	2.379	3.254	9.9	20.8

465701 2009 SM_{355} 3 1.2 233°.87 5°.4/25.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 16.44	+20 28.2	1.976	2.780	13.9	20.9
2 1	11 12.44	+21 26.5	1.897	2.778	11.0	20.7
2 11	11 5.99	+22 27.8	1.840	2.776	8.0	20.5
2 21	10 57.65	+23 24.6	1.810	2.774	5.7	20.4
3 2	10 48.29	+24 9.0	1.808	2.771	6.0	20.4
3 12	10 39.05	+24 35.1	1.834	2.769	8.5	20.5
3 22	10 30.96	+24 40.1	1.885	2.766	11.7	20.7
4 1	10 24.86	+24 23.9	1.958	2.764	14.6	20.9

259268 2003 CL_{16} 3 1.2 5°.89 4°.2/26.9 18

1 22	11 11.61	+13 42.9	1.407	2.230	17.5	19.9
2 1	11 9.46	+14 36.3	1.335	2.230	13.7	19.7
2 11	11 4.38	+15 41.2	1.284	2.231	9.4	19.4
2 21	10 56.99	+16 49.2	1.256	2.233	5.3	19.2
3 2	10 48.35	+17 50.2	1.254	2.236	4.7	19.1
3 12	10 39.87	+18 35.2	1.278	2.239	8.5	19.4
3 22	10 32.85	+18 58.5	1.325	2.244	12.9	19.6
4 1	10 28.25	+18 58.6	1.393	2.249	16.8	19.9

162196 1999 RL_{45} 3 1.2 68°.55 3°.9/ 4.7 16

1 22	11 23.50	−14 51.9	0.937	1.679	29.9	21.0
2 1	11 19.21	−12 36.6	0.896	1.729	24.4	20.8
2 11	11 10.99	− 9 25.3	0.871	1.778	17.9	20.6
2 21	11 0.02	− 5 27.3	0.866	1.827	10.6	20.4
3 2	10 48.11	− 1 5.4	0.888	1.874	4.4	20.2
3 12	10 37.29	+ 3 9.9	0.938	1.919	6.7	20.5
3 22	10 29.05	+ 6 53.1	1.016	1.964	12.5	20.9
4 1	10 24.25	+ 9 50.6	1.117	2.006	17.5	21.4

467353 2003 NN_{7} 3 1.2 284°.13 7°.2/ 6.9 17

1 22	11 14.88	−12 23.6	2.168	2.848	16.5	21.4
2 1	11 11.37	−13 14.4	2.037	2.817	14.4	21.2
2 11	11 5.51	−13 46.7	1.926	2.786	12.0	21.0
2 21	10 57.59	−13 57.2	1.837	2.754	9.4	20.7
3 2	10 48.28	−13 44.2	1.773	2.722	7.5	20.6
3 12	10 38.55	−13 8.7	1.737	2.690	7.5	20.5
3 22	10 29.45	−12 15.4	1.728	2.657	9.7	20.5
4 1	10 21.99	−11 11.0	1.744	2.623	12.7	20.7

243205 2007 UD_{11} 3 1.2 212°.54 2°.5/27.6 17

1 22	11 15.56	+10 0.2	2.086	2.868	14.0	21.4
2 1	11 11.67	+11 10.2	1.988	2.860	11.0	21.2
2 11	11 5.48	+12 33.6	1.913	2.852	7.4	20.9
2 21	10 57.44	+14 4.3	1.865	2.842	3.8	20.7
3 2	10 48.31	+15 34.3	1.848	2.832	2.9	20.6
3 12	10 39.10	+16 55.3	1.860	2.821	6.4	20.8
3 22	10 30.81	+18 1.0	1.901	2.809	10.2	21.0
4 1	10 24.28	+18 47.6	1.965	2.796	13.6	21.2

218738 2005 UY_{440} 3 1.2 117°.79 3°.2/ 4.7 18

1 22	11 15.54	− 5 17.8	2.422	3.133	14.2	20.9
2 1	11 11.01	− 5 15.0	2.339	3.154	11.7	20.8
2 11	11 4.61	− 4 55.4	2.278	3.175	8.8	20.6
2 21	10 56.84	− 4 20.1	2.242	3.195	5.7	20.4
3 2	10 48.38	− 3 31.9	2.236	3.215	3.3	20.3
3 12	10 40.06	− 2 35.6	2.259	3.234	4.1	20.4
3 22	10 32.63	− 1 36.5	2.313	3.252	7.0	20.6
4 1	10 26.71	− 0 40.0	2.393	3.269	9.8	20.8

285152 1995 UR_{65} 3 1.2 145°.80 4°.3/25.6 18

1 22	11 16.76	+18 58.9	2.402	3.192	12.2	21.3
2 1	11 12.11	+19 55.6	2.327	3.202	9.5	21.1
2 11	11 5.44	+20 55.2	2.277	3.211	6.7	20.9
2 21	10 57.27	+21 51.6	2.255	3.220	4.6	20.8
3 2	10 48.35	+22 38.5	2.262	3.228	4.7	20.8
3 12	10 39.57	+23 11.1	2.298	3.235	6.9	21.0
3 22	10 31.77	+23 26.8	2.362	3.243	9.7	21.2
4 1	10 25.61	+23 25.2	2.450	3.249	12.2	21.3

474114 2016 LD_{41} 3 1.2 171°.40 4°.2/24.9 17

1 22	11 12.04	+17 51.4	2.439	3.236	11.8	21.1
2 1	11 8.50	+19 5.2	2.358	3.238	9.2	20.9
2 11	11 3.04	+20 24.0	2.302	3.239	6.5	20.8
2 21	10 56.14	+21 41.2	2.274	3.240	4.4	20.6
3 2	10 48.45	+22 50.1	2.275	3.241	4.7	20.6
3 12	10 40.81	+23 45.0	2.306	3.241	7.0	20.8
3 22	10 34.02	+24 22.2	2.364	3.242	9.8	21.0
4 1	10 28.71	+24 40.6	2.445	3.242	12.3	21.1

387654 2002 RV_{147} 3 1.2 109°.62 0°.1/ 1.1 18

1 22	11 13.42	+ 5 14.7	2.504	3.264	12.6	21.9
2 1	11 9.30	+ 5 42.9	2.424	3.282	9.9	21.7
2 11	11 3.42	+ 6 21.8	2.368	3.299	6.7	21.6
2 21	10 56.25	+ 7 8.2	2.340	3.316	3.3	21.4
3 2	10 48.45	+ 7 57.6	2.342	3.333	0.3	21.1
3 12	10 40.78	+ 8 45.2	2.374	3.349	3.9	21.5
3 22	10 33.95	+ 9 26.8	2.435	3.365	7.2	21.7
4 1	10 28.54	+ 9 59.1	2.522	3.380	10.1	21.9

375968 2009 WR_{211} 3 1.2 246°.31 1°.0/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 12.57	+ 7 0.8	1.980	2.763	14.7	21.5
2 1	11 9.32	+ 7 37.5	1.889	2.761	11.6	21.3
2 11	11 3.84	+ 8 27.6	1.821	2.759	7.9	21.1
2 21	10 56.61	+ 9 26.8	1.779	2.757	3.8	20.8
3 2	10 48.41	+10 28.8	1.765	2.755	1.2	20.6
3 12	10 40.23	+11 26.9	1.780	2.753	5.2	20.9
3 22	10 33.02	+12 15.1	1.822	2.751	9.3	21.1
4 1	10 27.59	+12 49.3	1.889	2.749	12.8	21.3

238657 2005 EV_{103} 3 1.2 69°.52 0°.1/ 1.1 18

1 22	11 11.71	+ 4 56.8	2.151	2.923	14.0	20.8
2 1	11 8.42	+ 5 24.3	2.060	2.924	11.1	20.6
2 11	11 3.10	+ 6 5.0	1.992	2.925	7.6	20.4
2 21	10 56.20	+ 6 55.6	1.950	2.926	3.7	20.1
3 2	10 48.45	+ 7 50.9	1.936	2.927	0.4	19.9
3 12	10 40.75	+ 8 45.0	1.952	2.929	4.4	20.2
3 22	10 33.93	+ 9 32.5	1.996	2.930	8.3	20.4
4 1	10 28.71	+10 9.3	2.065	2.931	11.7	20.6

500612 2012 UX_{138} 3 1.2 116°.01 3°.9/ 5.4 17

1 22	11 13.60	− 6 23.8	2.538	3.243	13.7	21.9
2 1	11 9.53	− 6 45.9	2.444	3.252	11.5	21.7
2 11	11 3.66	− 6 52.5	2.372	3.261	8.8	21.5
2 21	10 56.42	− 6 43.8	2.325	3.270	6.1	21.4
3 2	10 48.44	− 6 21.2	2.307	3.278	4.1	21.3
3 12	10 40.51	− 5 47.9	2.317	3.287	4.5	21.3
3 22	10 33.36	− 5 8.3	2.357	3.295	6.9	21.5
4 1	10 27.60	− 4 27.2	2.423	3.303	9.6	21.6

50951 2000 GE_{78} 3 1.2 143°.85 2°.3/ 3.9 18

1 22	11 10.76	− 3 30.7	2.524	3.251	13.3	19.8
2 1	11 7.33	− 3 11.0	2.428	3.257	10.9	19.7
2 11	11 2.17	− 2 35.0	2.355	3.263	8.0	19.5
2 21	10 55.69	− 1 44.4	2.307	3.268	4.9	19.3
3 2	10 48.51	− 0 42.5	2.289	3.273	2.4	19.1
3 12	10 41.36	+ 0 25.6	2.301	3.278	3.7	19.2
3 22	10 34.95	+ 1 34.2	2.342	3.283	6.8	19.4
4 1	10 29.88	+ 2 38.3	2.410	3.287	9.7	19.6

426099 2012 EL_{17} 3 1.2 224°.06 2°.7/27.3 17

1 22	11 13.92	+11 29.4	2.147	2.934	13.5	21.1
2 1	11 10.31	+12 32.2	2.050	2.926	10.6	20.9
2 11	11 4.51	+13 46.1	1.977	2.917	7.2	20.6
2 21	10 56.96	+15 5.2	1.931	2.907	3.8	20.4
3 2	10 48.40	+16 22.4	1.914	2.897	3.1	20.3
3 12	10 39.80	+17 30.1	1.927	2.887	6.3	20.5
3 22	10 32.07	+18 22.9	1.968	2.876	9.9	20.7
4 1	10 26.03	+18 57.6	2.033	2.864	13.2	20.9

105414 2000 QA_{159} 3 1.2 81°.78 3°.7/ 5.3 18

1 22	11 11.50	− 6 6.5	2.410	3.125	14.1	19.5
2 1	11 8.00	− 6 17.5	2.318	3.133	11.8	19.3
2 11	11 2.68	− 6 11.9	2.246	3.141	9.0	19.1
2 21	10 55.96	− 5 50.1	2.200	3.148	6.1	19.0
3 2	10 48.50	− 5 13.9	2.181	3.156	3.9	18.8
3 12	10 41.08	− 4 27.5	2.192	3.164	4.5	18.9
3 22	10 34.46	− 3 35.8	2.230	3.172	7.0	19.1
4 1	10 29.26	− 2 44.3	2.296	3.179	9.9	19.3

289966 2005 NH_{90} 3 1.2 205°.99 3°.8/ 5.8 17

1 22	11 11.07	− 7 41.8	2.746	3.444	13.0	21.4
2 1	11 7.50	− 7 50.8	2.639	3.441	10.9	21.3
2 11	11 2.28	− 7 44.1	2.554	3.438	8.5	21.1
2 21	10 55.76	− 7 21.8	2.493	3.434	5.9	20.9
3 2	10 48.52	− 6 45.4	2.461	3.431	4.0	20.8
3 12	10 41.25	− 5 58.2	2.458	3.427	4.3	20.8
3 22	10 34.62	− 5 4.6	2.484	3.423	6.6	20.9
4 1	10 29.23	− 4 9.7	2.537	3.418	9.2	21.1

81582 2000 HZ_{45} 3 1.2 177°.05 12°.1/17.6 18

1 22	11 25.29	+40 24.8	1.902	2.684	15.2	19.4
2 1	11 20.07	+42 4.3	1.850	2.685	13.5	19.3
2 11	11 11.52	+43 30.3	1.821	2.685	12.4	19.2
2 21	11 0.43	+44 31.5	1.815	2.685	12.2	19.2
3 2	10 48.12	+44 58.7	1.833	2.686	13.1	19.2
3 12	10 36.23	+44 48.3	1.873	2.686	14.6	19.3
3 22	10 26.19	+44 2.2	1.933	2.685	16.5	19.5
4 1	10 19.00	+42 45.9	2.010	2.685	18.3	19.6

458886 2011 UU_{173} 3 1.2 95°.68 4°.4/26.9 18

1 22	11 20.18	+16 7.6	1.602	2.406	16.6	21.1
2 1	11 15.72	+16 52.8	1.535	2.418	13.0	20.9
2 11	11 8.38	+17 44.6	1.489	2.430	9.0	20.7
2 21	10 58.85	+18 35.1	1.469	2.442	5.3	20.5
3 2	10 48.26	+19 15.6	1.476	2.454	4.8	20.5
3 12	10 37.98	+19 39.5	1.510	2.465	8.1	20.7
3 22	10 29.23	+19 43.5	1.570	2.477	12.0	21.0
4 1	10 22.91	+19 27.6	1.652	2.488	15.5	21.2

396625 2001 TK_{232} 3 1.2 139°.96 4°.9/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 19.47	+16 31.1	1.740	2.540	15.7	21.4
2 1	11 15.03	+17 42.4	1.670	2.551	12.3	21.2
2 11	11 7.86	+19 1.1	1.622	2.561	8.5	21.0
2 21	10 58.61	+20 18.3	1.601	2.571	5.4	20.8
3 2	10 48.28	+21 24.7	1.607	2.580	5.4	20.8
3 12	10 38.17	+22 12.5	1.642	2.588	8.5	21.0
3 22	10 29.44	+22 37.9	1.703	2.595	12.1	21.3
4 1	10 22.97	+22 40.4	1.785	2.602	15.3	21.5

318189 2004 RR_{100} 3 1.2 160°.25 1°.0/ 2.2 17

1 22	11 16.05	+ 2 40.4	2.425	3.172	13.3	21.3
2 1	11 11.52	+ 2 45.9	2.331	3.178	10.6	21.1
2 11	11 5.05	+ 3 3.4	2.261	3.183	7.5	20.9
2 21	10 57.13	+ 3 30.8	2.217	3.188	4.0	20.7
3 2	10 48.41	+ 4 4.5	2.202	3.192	1.0	20.5
3 12	10 39.75	+ 4 40.3	2.219	3.196	3.8	20.7
3 22	10 31.94	+ 5 13.9	2.264	3.200	7.3	20.9
4 1	10 25.63	+ 5 41.5	2.337	3.203	10.5	21.1

346809 2009 CD_{35} 3 1.2 200°.79 0°.3/29.9 17

1 22	11 14.45	+ 7 3.5	2.541	3.304	12.3	21.7
2 1	11 10.23	+ 7 14.1	2.442	3.302	9.7	21.5
2 11	11 4.17	+ 7 33.7	2.368	3.300	6.7	21.3
2 21	10 56.70	+ 7 59.5	2.321	3.297	3.2	21.0
3 2	10 48.46	+ 8 27.8	2.303	3.294	0.5	20.8
3 12	10 40.24	+ 8 54.6	2.316	3.291	4.0	21.1
3 22	10 32.79	+ 9 16.1	2.359	3.288	7.4	21.3
4 1	10 26.77	+ 9 29.8	2.427	3.284	10.4	21.5

378729 2008 QD_{42} 3 1.2 144°.06 0°.0/ 1.2 17

1 22	11 13.41	+ 4 38.6	2.259	3.023	13.6	22.2
2 1	11 9.61	+ 5 6.0	2.170	3.029	10.8	22.0
2 11	11 3.84	+ 5 46.1	2.104	3.035	7.4	21.8
2 21	10 56.56	+ 6 35.6	2.065	3.041	3.7	21.5
3 2	10 48.48	+ 7 29.6	2.055	3.046	0.3	21.3
3 12	10 40.46	+ 8 22.6	2.075	3.051	4.2	21.6
3 22	10 33.33	+ 9 9.4	2.123	3.056	7.9	21.8
4 1	10 27.76	+ 9 46.1	2.198	3.060	11.2	22.0

75915 2000 CO_{60} 3 1.2 80°.48 0°.3/ 1.5 18

1 22	11 12.47	+ 3 57.0	2.095	2.864	14.4	19.6
2 1	11 9.01	+ 4 21.1	2.012	2.873	11.4	19.4
2 11	11 3.49	+ 4 59.1	1.951	2.882	7.9	19.2
2 21	10 56.40	+ 5 47.6	1.916	2.891	4.0	19.0
3 2	10 48.50	+ 6 41.6	1.909	2.900	0.4	18.7
3 12	10 40.70	+ 7 35.0	1.932	2.909	4.3	19.0
3 22	10 33.86	+ 8 22.5	1.983	2.919	8.2	19.3
4 1	10 28.66	+ 8 59.9	2.059	2.928	11.5	19.5

22708 1998 RK_{66} 3 1.2 139°.39 1°.0/ 2.3 18

1 22	11 13.13	+ 2 0.5	2.320	3.073	13.6	18.7
2 1	11 9.34	+ 2 16.3	2.230	3.080	10.9	18.5
2 11	11 3.62	+ 2 45.7	2.161	3.086	7.7	18.3
2 21	10 56.45	+ 3 26.2	2.119	3.091	4.1	18.1
3 2	10 48.50	+ 4 13.8	2.107	3.097	1.0	17.8
3 12	10 40.60	+ 5 3.4	2.124	3.102	3.9	18.1
3 22	10 33.55	+ 5 50.0	2.169	3.107	7.5	18.3
4 1	10 28.01	+ 6 29.4	2.241	3.112	10.7	18.5

277708 2006 DM_{22} 3 1.2 14°.29 1°.3/29.1 17

1 22	11 14.26	+ 9 12.9	1.884	2.673	15.1	21.0
2 1	11 10.74	+ 9 35.2	1.798	2.674	11.8	20.8
2 11	11 4.86	+10 8.5	1.735	2.675	8.0	20.6
2 21	10 57.14	+10 48.2	1.698	2.676	3.9	20.3
3 2	10 48.43	+11 28.6	1.688	2.677	1.6	20.2
3 12	10 39.81	+12 3.5	1.707	2.679	5.5	20.4
3 22	10 32.27	+12 28.1	1.752	2.680	9.6	20.7
4 1	10 26.64	+12 39.5	1.822	2.682	13.2	20.9

157960 2000 EP_{53} 3 1.2 236°.33 0°.1/ 1.1 18

1 22	11 16.20	+ 4 39.7	1.675	2.455	17.0	21.4
2 1	11 12.77	+ 5 5.3	1.578	2.445	13.7	21.1
2 11	11 6.59	+ 5 48.6	1.501	2.436	9.5	20.8
2 21	10 58.15	+ 6 45.8	1.449	2.425	4.7	20.5
3 2	10 48.34	+ 7 50.6	1.424	2.415	0.5	20.2
3 12	10 38.42	+ 8 54.7	1.427	2.404	5.7	20.5
3 22	10 29.63	+ 9 50.5	1.457	2.392	10.6	20.8
4 1	10 23.02	+10 32.0	1.510	2.380	14.9	21.0

100196 1994 CL_{16} 3 1.2 31°.46 1°.5/28.9 18 R

1 22	11 11.28	+ 8 17.2	1.606	2.408	16.6	18.5
2 1	11 8.62	+ 8 55.4	1.542	2.425	13.0	18.3
2 11	11 3.46	+ 9 47.3	1.499	2.442	8.7	18.1
2 21	10 56.43	+10 47.0	1.481	2.460	4.1	17.9
3 2	10 48.50	+11 46.8	1.490	2.479	1.9	17.8
3 12	10 40.84	+12 38.9	1.525	2.498	6.0	18.1
3 22	10 34.45	+13 17.7	1.587	2.518	10.2	18.4
4 1	10 30.13	+13 40.0	1.672	2.539	13.9	18.6

223726 2004 RT_{114} 3 1.2 245°.22 1°.5/28.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 14.61	+ 9 15.4	2.174	2.953	13.6	21.1
2 1	11 10.84	+ 9 51.7	2.070	2.940	10.7	20.9
2 11	11 4.89	+10 39.2	1.988	2.926	7.3	20.7
2 21	10 57.18	+11 33.4	1.934	2.912	3.6	20.4
3 2	10 48.43	+12 28.7	1.909	2.897	1.8	20.2
3 12	10 39.60	+13 18.7	1.913	2.882	5.4	20.4
3 22	10 31.61	+13 58.3	1.945	2.867	9.2	20.6
4 1	10 25.29	+14 24.0	2.003	2.851	12.7	20.8

312021 2007 RV_{60} 3 1.2 108°.85 0°.8/ 1.9 18

1 22	11 19.56	+ 3 17.4	1.834	2.595	16.4	21.6
2 1	11 14.75	+ 3 29.1	1.760	2.616	13.1	21.4
2 11	11 7.47	+ 3 56.0	1.708	2.636	9.1	21.2
2 21	10 58.36	+ 4 34.8	1.682	2.656	4.7	21.0
3 2	10 48.35	+ 5 20.2	1.684	2.675	0.8	20.7
3 12	10 38.58	+ 6 6.0	1.715	2.693	4.7	21.0
3 22	10 30.09	+ 6 46.5	1.775	2.711	8.9	21.3
4 1	10 23.66	+ 7 17.2	1.859	2.728	12.6	21.6

155448 1998 HB_{43} 3 1.2 177°.00 0°.6/29.6 17

1 22	11 12.19	+ 5 43.1	2.004	2.782	14.7	20.6
2 1	11 8.99	+ 6 23.6	1.914	2.782	11.6	20.3
2 11	11 3.61	+ 7 18.7	1.846	2.782	7.9	20.1
2 21	10 56.53	+ 8 24.0	1.805	2.783	3.8	19.9
3 2	10 48.50	+ 9 33.4	1.792	2.783	0.9	19.6
3 12	10 40.51	+10 39.7	1.809	2.783	5.0	19.9
3 22	10 33.47	+11 36.6	1.852	2.783	9.0	20.2
4 1	10 28.16	+12 19.9	1.921	2.782	12.6	20.4

371697 2007 DC_{109} 3 1.2 257°.94 0°.9/ 2.1 17

1 22	11 14.06	+ 2 43.8	2.020	2.783	15.1	21.4
2 1	11 10.58	+ 2 54.5	1.915	2.771	12.1	21.2
2 11	11 4.80	+ 3 20.3	1.831	2.759	8.6	20.9
2 21	10 57.18	+ 3 58.9	1.773	2.746	4.5	20.6
3 2	10 48.44	+ 4 46.2	1.743	2.733	0.9	20.3
3 12	10 39.60	+ 5 36.2	1.742	2.720	4.6	20.6
3 22	10 31.65	+ 6 23.0	1.769	2.707	8.8	20.8
4 1	10 25.46	+ 7 1.5	1.820	2.694	12.6	21.0

122057 2000 GR_{149} 3 1.2 206°.45 0°.1/ 1.1 18

1 22	11 17.61	+ 4 59.7	1.799	2.572	16.3	20.7
2 1	11 13.62	+ 5 24.6	1.703	2.567	13.0	20.5
2 11	11 7.02	+ 6 5.4	1.629	2.562	9.0	20.2
2 21	10 58.30	+ 6 58.5	1.580	2.557	4.5	19.9
3 2	10 48.36	+ 7 57.7	1.559	2.550	0.5	19.6
3 12	10 38.36	+ 8 55.6	1.567	2.543	5.3	19.9
3 22	10 29.47	+ 9 45.5	1.603	2.536	10.0	20.2
4 1	10 22.65	+10 22.4	1.663	2.528	14.0	20.4

165748 2001 QR_{186} 3 1.2 48°.93 0°.2/ 1.4 18

1 22	11 18.33	+ 7 17.2	2.077	2.845	14.5	19.7
2 1	11 13.58	+ 7 1.2	1.993	2.854	11.5	19.5
2 11	11 6.60	+ 6 54.1	1.932	2.864	7.9	19.3
2 21	10 57.93	+ 6 53.4	1.898	2.874	3.9	19.0
3 2	10 48.42	+ 6 56.0	1.892	2.883	0.3	18.8
3 12	10 39.06	+ 6 58.0	1.917	2.893	4.4	19.1
3 22	10 30.79	+ 6 56.3	1.969	2.904	8.3	19.4
4 1	10 24.34	+ 6 48.6	2.047	2.914	11.7	19.6

4177 Kohman 3 1.2 138°.23 3°.8/ 7.2 18

1 22	11 9.93	−11 42.4	3.396	4.057	11.3	19.4
2 1	11 6.20	−11 36.5	3.298	4.070	9.6	19.3
2 11	11 1.17	−11 15.5	3.221	4.082	7.6	19.1
2 21	10 55.16	−10 39.7	3.170	4.094	5.6	19.0
3 2	10 48.66	− 9 50.7	3.148	4.106	4.1	18.9
3 12	10 42.20	− 8 51.6	3.156	4.117	4.0	18.9
3 22	10 36.30	− 7 46.4	3.194	4.128	5.5	19.0
4 1	10 31.40	− 6 39.4	3.261	4.138	7.5	19.2

342631 2008 UN_{346} 3 1.2 60°.83 3°.4/ 4.6 18

1 22	11 12.43	− 4 9.5	2.189	2.920	15.0	20.6
2 1	11 8.95	− 4 22.7	2.099	2.927	12.4	20.4
2 11	11 3.45	− 4 19.1	2.030	2.934	9.3	20.2
2 21	10 56.42	− 3 59.2	1.985	2.941	6.0	20.0
3 2	10 48.55	− 3 25.4	1.968	2.948	3.6	19.9
3 12	10 40.74	− 2 42.0	1.980	2.955	4.5	19.9
3 22	10 33.80	− 1 54.4	2.020	2.962	7.6	20.1
4 1	10 28.45	− 1 8.2	2.085	2.970	10.7	20.3

27979 1997 UH_{19} 3 1.2 296°.14 0°.9/29.3 18

1 22	11 11.54	+ 7 21.7	2.168	2.948	13.6	20.0
2 1	11 8.35	+ 7 54.7	2.074	2.944	10.7	19.8
2 11	11 3.11	+ 8 39.6	2.003	2.940	7.3	19.6
2 21	10 56.28	+ 9 32.4	1.958	2.936	3.5	19.3
3 2	10 48.56	+10 27.8	1.941	2.931	1.1	19.1
3 12	10 40.86	+11 19.6	1.954	2.927	4.8	19.4
3 22	10 34.01	+12 2.7	1.995	2.923	8.6	19.6
4 1	10 28.75	+12 33.5	2.061	2.919	12.0	19.8

152725 1998 UL_{44} 3 1.2 137°.59 1°.3/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 17.37	+ 8 43.7	2.215	2.986	13.7	21.3
2 1	11 12.70	+ 9 21.5	2.135	3.000	10.7	21.1
2 11	11 5.93	+10 9.4	2.078	3.013	7.2	20.9
2 21	10 57.59	+11 3.0	2.049	3.026	3.5	20.7
3 2	10 48.46	+11 56.4	2.050	3.038	1.6	20.6
3 12	10 39.48	+12 44.0	2.081	3.050	5.0	20.8
3 22	10 31.50	+13 21.2	2.140	3.060	8.6	21.1
4 1	10 25.23	+13 45.5	2.225	3.070	11.7	21.3

497290 2005 SS_{84} 3 1.2 243°.22 3°.1/27.3 17

1 22	11 19.49	+15 3.1	2.330	3.109	12.8	22.8
2 1	11 14.61	+15 39.0	2.220	3.090	10.1	22.5
2 11	11 7.46	+16 21.1	2.134	3.070	7.0	22.3
2 21	10 58.47	+17 4.4	2.075	3.049	4.0	22.1
3 2	10 48.38	+17 42.8	2.047	3.027	3.4	22.0
3 12	10 38.16	+18 10.8	2.049	3.004	6.3	22.1
3 22	10 28.79	+18 24.8	2.079	2.981	9.8	22.3
4 1	10 21.11	+18 23.0	2.135	2.957	13.0	22.5

183221 2002 TQ_{39} 3 1.2 62°.05 3°.3/27.5 18

1 22	11 17.00	+11 56.0	1.534	2.338	17.2	19.1
2 1	11 13.11	+12 57.1	1.482	2.366	13.3	18.9
2 11	11 6.50	+14 8.8	1.451	2.395	8.9	18.7
2 21	10 57.91	+15 22.8	1.446	2.423	4.7	18.5
3 2	10 48.45	+16 30.0	1.468	2.451	3.8	18.5
3 12	10 39.42	+17 22.2	1.517	2.479	7.3	18.8
3 22	10 31.94	+17 54.9	1.592	2.507	11.3	19.1
4 1	10 26.77	+18 6.9	1.690	2.535	14.8	19.4

213067 1999 ST_{15} 3 1.2 255°.18 5°.3/ 8.2 18

1 22	11 9.63	−14 24.9	2.863	3.518	13.3	20.6
2 1	11 6.46	−14 33.0	2.741	3.503	11.6	20.4
2 11	11 1.64	−14 22.4	2.639	3.488	9.5	20.2
2 21	10 55.53	−13 52.2	2.560	3.472	7.4	20.1
3 2	10 48.64	−13 2.9	2.509	3.456	5.7	19.9
3 12	10 41.65	−11 57.4	2.486	3.439	5.5	19.9
3 22	10 35.22	−10 40.4	2.491	3.422	7.0	20.0
4 1	10 29.97	− 9 17.8	2.525	3.406	9.2	20.1

432310 2009 TD_{12} 3 1.2 185°.85 1°.0/ 2.5 16

1 22	11 12.98	− 0 10.1	2.598	3.335	12.7	22.1
2 1	11 9.08	+ 0 30.6	2.495	3.335	10.2	22.0
2 11	11 3.41	+ 1 26.7	2.415	3.334	7.3	21.8
2 21	10 56.38	+ 2 35.5	2.363	3.333	3.9	21.5
3 2	10 48.58	+ 3 52.7	2.341	3.330	1.0	21.3
3 12	10 40.76	+ 5 12.4	2.350	3.328	3.6	21.5
3 22	10 33.65	+ 6 29.0	2.389	3.324	7.0	21.7
4 1	10 27.88	+ 7 37.3	2.456	3.320	10.1	21.9

148328 2000 QQ_{106} 3 1.2 262°.32 1°.3/28.9 18

1 22	11 14.07	+ 7 43.2	2.131	2.908	13.9	20.5
2 1	11 10.58	+ 8 24.7	2.018	2.887	11.1	20.2
2 11	11 4.84	+ 9 19.6	1.928	2.864	7.6	20.0
2 21	10 57.25	+10 24.0	1.864	2.842	3.7	19.7
3 2	10 48.50	+11 31.7	1.829	2.818	1.5	19.5
3 12	10 39.56	+12 35.7	1.824	2.795	5.4	19.7
3 22	10 31.41	+13 29.9	1.847	2.770	9.5	19.9
4 1	10 24.92	+14 9.8	1.895	2.746	13.2	20.0

326416 2001 SV_{342} 3 1.2 23°.24 4°.1/ 5.2 18

1 22	11 5.85	− 7 38.3	1.328	2.096	21.3	20.1
2 1	11 4.97	− 7 9.5	1.258	2.107	17.6	19.8
2 11	11 1.34	− 6 6.7	1.204	2.119	13.3	19.6
2 21	10 55.56	− 4 31.9	1.171	2.132	8.5	19.4
3 2	10 48.65	− 2 32.1	1.163	2.147	4.5	19.2
3 12	10 41.91	− 0 19.8	1.181	2.162	5.6	19.3
3 22	10 36.53	+ 1 50.8	1.224	2.179	10.0	19.6
4 1	10 33.40	+ 3 47.3	1.291	2.196	14.4	19.9

450192 2001 XQ_{228} 3 1.2 78°.06 5°.6/26.1 17

1 22	11 19.85	+17 10.1	1.423	2.236	17.8	21.6
2 1	11 15.77	+18 17.0	1.366	2.255	13.9	21.4
2 11	11 8.57	+19 30.6	1.331	2.273	9.7	21.2
2 21	10 59.02	+20 40.6	1.320	2.291	6.2	21.1
3 2	10 48.38	+21 36.7	1.336	2.309	6.1	21.1
3 12	10 38.17	+22 10.8	1.378	2.327	9.4	21.4
3 22	10 29.71	+22 19.9	1.444	2.344	13.3	21.6
4 1	10 23.90	+22 4.9	1.531	2.362	16.8	21.9

146453 2001 RC_{28} 3 1.2 39°.07 0°.5/ 1.7 18

1 22	11 11.72	+ 1 56.9	1.309	2.106	20.0	18.4
2 1	11 9.42	+ 2 34.8	1.254	2.130	15.8	18.2
2 11	11 4.22	+ 3 35.6	1.218	2.156	10.9	18.0
2 21	10 56.88	+ 4 53.8	1.205	2.182	5.5	17.7
3 2	10 48.56	+ 6 19.9	1.218	2.209	0.6	17.5
3 12	10 40.62	+ 7 43.1	1.256	2.236	5.7	17.9
3 22	10 34.24	+ 8 54.3	1.320	2.264	10.6	18.2
4 1	10 30.26	+ 9 47.4	1.406	2.292	14.8	18.6

178975 2001 QZ_{246} 3 1.2 160°.78 1°.7/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 17.28	+10 42.4	2.474	3.245	12.4	21.5
2 1	11 12.46	+11 17.5	2.387	3.252	9.7	21.3
2 11	11 5.70	+12 0.4	2.324	3.259	6.5	21.1
2 21	10 57.48	+12 47.0	2.289	3.266	3.2	20.9
3 2	10 48.51	+13 32.0	2.285	3.271	1.9	20.8
3 12	10 39.62	+14 10.6	2.311	3.276	4.9	21.0
3 22	10 31.62	+14 39.2	2.366	3.280	8.2	21.2
4 1	10 25.15	+14 55.5	2.447	3.284	11.1	21.4

131454 2001 QE_{190} 3 1.2 112°.69 6°.2/ 9.1 18

1 22	11 14.95	−16 29.1	2.889	3.516	13.7	20.9
2 1	11 10.40	−17 8.8	2.800	3.536	11.9	20.8
2 11	11 4.18	−17 30.8	2.731	3.555	10.0	20.7
2 21	10 56.71	−17 33.7	2.686	3.574	8.0	20.6
3 2	10 48.58	−17 17.4	2.667	3.592	6.6	20.5
3 12	10 40.50	−16 44.2	2.676	3.610	6.3	20.5
3 22	10 33.15	−15 58.1	2.714	3.627	7.3	20.6
4 1	10 27.11	−15 4.0	2.779	3.644	9.0	20.7

149532 2003 GS_{14} 3 1.2 356°.19 2°.4/28.0 18

1 22	11 10.62	+ 8 43.3	1.662	2.465	16.2	19.6
2 1	11 8.28	+ 9 47.6	1.580	2.464	12.7	19.4
2 11	11 3.42	+11 8.0	1.519	2.463	8.5	19.2
2 21	10 56.56	+12 37.7	1.483	2.462	4.2	18.9
3 2	10 48.58	+14 7.8	1.475	2.462	2.8	18.8
3 12	10 40.65	+15 28.3	1.494	2.462	6.8	19.0
3 22	10 33.86	+16 31.8	1.539	2.462	11.1	19.3
4 1	10 29.10	+17 14.2	1.607	2.463	14.9	19.5

203356 2001 VQ_{63} 3 1.2 155°.26 3°.5/ 4.2 18

1 22	11 17.25	− 3 59.6	1.821	2.557	17.4	21.2
2 1	11 13.21	− 4 4.5	1.731	2.563	14.4	20.9
2 11	11 6.66	− 3 48.7	1.662	2.569	10.7	20.7
2 21	10 58.11	− 3 13.0	1.616	2.575	6.8	20.5
3 2	10 48.46	− 2 20.5	1.597	2.580	3.7	20.3
3 12	10 38.85	− 1 17.4	1.607	2.584	5.1	20.4
3 22	10 30.36	− 0 11.4	1.645	2.588	9.0	20.6
4 1	10 23.90	+ 0 50.4	1.708	2.591	12.8	20.9

428422 2007 TW_{178} 3 1.2 294°.20 3°.0/ 4.1 17

1 22	11 10.82	− 3 13.9	2.076	2.818	15.4	21.4
2 1	11 8.05	− 3 14.3	1.962	2.799	12.7	21.2
2 11	11 3.11	− 2 56.3	1.869	2.780	9.5	20.9
2 21	10 56.40	− 2 20.4	1.801	2.762	6.0	20.7
3 2	10 48.60	− 1 29.2	1.759	2.743	3.1	20.4
3 12	10 40.62	− 0 27.8	1.746	2.725	4.6	20.5
3 22	10 33.42	+ 0 37.3	1.761	2.706	8.3	20.7
4 1	10 27.85	+ 1 39.3	1.801	2.688	12.0	20.9

114719 2003 GW_{30} 3 1.2 267°.73 0°.3/29.9 17

1 22	11 10.97	+ 6 13.2	2.530	3.298	12.2	20.3
2 1	11 7.62	+ 6 38.5	2.427	3.289	9.7	20.1
2 11	11 2.48	+ 7 14.3	2.347	3.280	6.6	19.9
2 21	10 55.95	+ 7 57.8	2.295	3.271	3.2	19.7
3 2	10 48.65	+ 8 44.8	2.272	3.262	0.5	19.5
3 12	10 41.31	+ 9 30.3	2.279	3.253	4.1	19.7
3 22	10 34.68	+10 10.1	2.314	3.244	7.5	19.9
4 1	10 29.39	+10 40.6	2.376	3.235	10.6	20.1

164799 1999 JV_{26} 3 1.2 314°.90 1°.1/29.6 17

1 22	11 11.21	+ 7 7.8	1.273	2.089	19.4	20.5
2 1	11 9.94	+ 7 24.4	1.170	2.060	15.7	20.2
2 11	11 5.39	+ 8 0.5	1.086	2.031	10.9	19.8
2 21	10 57.92	+ 8 52.2	1.024	2.003	5.4	19.4
3 2	10 48.45	+ 9 52.1	0.986	1.976	1.4	19.0
3 12	10 38.54	+10 49.8	0.972	1.949	7.4	19.3
3 22	10 29.86	+11 35.3	0.981	1.924	13.5	19.6
4 1	10 23.88	+12 1.5	1.010	1.899	19.0	19.8

102496 1999 TT_{277} 3 1.2 3°.96 5°.5/27.2 18

1 22	11 18.37	+18 15.6	1.230	2.058	19.3	18.9
2 1	11 15.33	+18 36.8	1.161	2.056	15.3	18.6
2 11	11 8.72	+19 2.4	1.111	2.057	10.7	18.4
2 21	10 59.29	+19 23.9	1.084	2.058	6.6	18.1
3 2	10 48.39	+19 31.7	1.081	2.060	5.9	18.1
3 12	10 37.79	+19 19.3	1.102	2.063	9.6	18.3
3 22	10 29.08	+18 44.5	1.147	2.068	14.2	18.6
4 1	10 23.37	+17 49.1	1.212	2.073	18.4	18.8

317161 2001 VW_{129} 3 1.2 6°.03 3°.2/26.5 18

1 22	11 10.47	+13 37.3	2.235	3.032	12.7	20.9
2 1	11 7.47	+14 43.6	2.151	3.032	9.9	20.7
2 11	11 2.49	+15 58.3	2.091	3.032	6.7	20.5
2 21	10 55.99	+17 15.4	2.058	3.033	3.9	20.3
3 2	10 48.67	+18 27.7	2.055	3.033	3.7	20.3
3 12	10 41.39	+19 28.9	2.080	3.033	6.4	20.5
3 22	10 34.97	+20 14.3	2.133	3.034	9.6	20.7
4 1	10 30.11	+20 41.7	2.209	3.035	12.5	20.9

308221 2005 EV_{162} 3 1.2 69°.14 1°.3/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 18.47	+ 7 55.4	1.489	2.282	18.2	21.1
2 1	11 14.41	+ 8 24.5	1.429	2.306	14.2	20.9
2 11	11 7.50	+ 9 7.9	1.389	2.329	9.6	20.7
2 21	10 58.47	+ 9 59.5	1.374	2.352	4.6	20.4
3 2	10 48.47	+10 51.8	1.385	2.375	1.6	20.3
3 12	10 38.86	+11 36.7	1.424	2.398	6.1	20.6
3 22	10 30.83	+12 8.6	1.489	2.421	10.7	21.0
4 1	10 25.20	+12 24.5	1.577	2.444	14.6	21.2

207994 1998 FC_{50} 3 1.2 318°.93 1°.3/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.43	+ 0 26.7	1.531	2.311	18.4	20.2
2 1	11 9.19	+ 0 54.4	1.442	2.307	14.8	19.9
2 11	11 4.23	+ 1 45.5	1.372	2.302	10.6	19.7
2 21	10 57.05	+ 2 56.9	1.325	2.298	5.7	19.4
3 2	10 48.58	+ 4 22.1	1.304	2.294	1.3	19.1
3 12	10 40.07	+ 5 51.4	1.311	2.291	5.4	19.3
3 22	10 32.74	+ 7 14.8	1.343	2.287	10.4	19.6
4 1	10 27.63	+ 8 24.2	1.398	2.284	14.9	19.9

33915 2000 LA_{15} 3 1.2 218°.00 1°.6/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.88	− 0 1.3	1.919	2.671	16.1	19.8
2 1	11 12.17	+ 0 19.5	1.815	2.663	13.1	19.6
2 11	11 6.01	+ 0 59.3	1.733	2.655	9.4	19.3
2 21	10 57.86	+ 1 56.1	1.675	2.645	5.2	19.1
3 2	10 48.51	+ 3 5.2	1.645	2.635	1.6	18.8
3 12	10 39.05	+ 4 19.5	1.645	2.624	4.7	19.0
3 22	10 30.54	+ 5 31.2	1.673	2.612	9.1	19.2
4 1	10 23.92	+ 6 33.8	1.726	2.600	13.1	19.4

67908 2000 WF_{98} 3 1.2 170°.95 3°.2/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.88	− 2 57.4	1.938	2.675	16.5	19.2
2 1	11 12.80	− 3 4.4	1.844	2.678	13.6	19.0
2 11	11 6.33	− 2 52.9	1.771	2.680	10.1	18.7
2 21	10 57.96	− 2 23.6	1.722	2.682	6.3	18.5
3 2	10 48.51	− 1 39.5	1.700	2.684	3.3	18.3
3 12	10 39.07	− 0 46.0	1.708	2.685	4.8	18.4
3 22	10 30.66	+ 0 10.2	1.743	2.685	8.6	18.6
4 1	10 24.15	+ 1 2.7	1.804	2.685	12.3	18.9

345648 2006 TZ_{6} 3 1.2 324°.60 2°.8/ 4.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 9.63	− 4 14.4	2.384	3.114	13.9	21.0
2 1	11 6.66	− 4 4.2	2.284	3.112	11.5	20.9
2 11	11 1.88	− 3 36.8	2.205	3.111	8.6	20.7
2 21	10 55.69	− 2 53.4	2.151	3.110	5.4	20.5
3 2	10 48.71	− 1 56.9	2.126	3.108	2.9	20.3
3 12	10 41.73	− 0 52.3	2.130	3.107	4.0	20.4
3 22	10 35.49	+ 0 14.6	2.162	3.106	7.1	20.6
4 1	10 30.64	+ 1 18.2	2.221	3.105	10.2	20.7

469198 2016 GR_{182} 3 1.2 5°.00 9°.3/22.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.26	+26 57.1	1.532	2.356	16.3	20.3
2 1	11 12.39	+28 26.2	1.470	2.356	13.3	20.1
2 11	11 6.44	+29 53.2	1.430	2.356	10.6	19.9
2 21	10 58.09	+31 6.5	1.414	2.358	9.3	19.8
3 2	10 48.51	+31 55.2	1.423	2.360	10.1	19.9
3 12	10 39.19	+32 12.4	1.455	2.362	12.6	20.0
3 22	10 31.46	+31 57.0	1.510	2.365	15.5	20.2
4 1	10 26.29	+31 12.0	1.583	2.369	18.3	20.4

305973 2009 HH_{80} 3 1.2 109°.96 6°.5/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 9.24	−20 46.2	2.657	3.273	15.0	20.3
2 1	11 6.23	−20 33.0	2.553	3.277	13.3	20.2
2 11	11 1.50	−19 55.3	2.467	3.282	11.2	20.0
2 21	10 55.47	−18 51.8	2.403	3.287	9.0	19.9
3 2	10 48.73	−17 23.8	2.365	3.292	7.2	19.8
3 12	10 42.04	−15 35.3	2.355	3.296	6.5	19.7
3 22	10 36.07	−13 33.2	2.374	3.301	7.5	19.8
4 1	10 31.43	−11 25.5	2.422	3.305	9.5	19.9

301134 2008 WZ_{134} 3 1.2 30°.11 1°.5/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.57	+ 7 0.4	1.164	1.984	20.6	20.3
2 1	11 10.66	+ 7 35.4	1.102	1.994	16.2	20.1
2 11	11 5.46	+ 8 30.3	1.059	2.005	11.0	19.8
2 21	10 57.67	+ 9 38.2	1.037	2.017	5.3	19.5
3 2	10 48.56	+10 49.0	1.039	2.029	1.8	19.3
3 12	10 39.74	+11 51.3	1.067	2.043	7.2	19.7
3 22	10 32.66	+12 36.9	1.117	2.057	12.5	20.1
4 1	10 28.33	+13 1.3	1.188	2.072	17.1	20.4

373513 2001 RM_{20} 3 1.2 199°.52 0°.3/ 1.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.04	+ 4 22.4	1.898	2.661	15.9	22.3
2 1	11 14.63	+ 4 39.1	1.800	2.658	12.7	22.1
2 11	11 7.67	+ 5 10.7	1.724	2.654	8.9	21.8
2 21	10 58.67	+ 5 54.2	1.674	2.649	4.5	21.5
3 2	10 48.48	+ 6 44.3	1.652	2.643	0.4	21.2
3 12	10 38.24	+ 7 34.4	1.660	2.637	5.0	21.5
3 22	10 29.07	+ 8 18.5	1.696	2.629	9.5	21.8
4 1	10 21.90	+ 8 51.7	1.756	2.621	13.4	22.0

100635 1997 UQ_{24} 3 1.2 128°.30 0°.4/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 16.12	+ 3 52.7	2.039	2.802	15.0	20.6
2 1	11 11.96	+ 4 11.1	1.955	2.813	11.9	20.4
2 11	11 5.58	+ 4 43.4	1.894	2.823	8.2	20.2
2 21	10 57.52	+ 5 26.4	1.859	2.833	4.2	20.0
3 2	10 48.58	+ 6 15.2	1.852	2.843	0.5	19.7
3 12	10 39.76	+ 7 3.9	1.875	2.852	4.4	20.0
3 22	10 31.98	+ 7 47.0	1.926	2.861	8.4	20.3
4 1	10 25.97	+ 8 20.3	2.003	2.870	11.9	20.5

450232 2002 UJ_{46} 3 1.2 171°.04 2°.4/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.06	− 2 8.5	1.886	2.625	16.8	22.7
2 1	11 13.80	− 1 56.4	1.793	2.630	13.7	22.5
2 11	11 7.06	− 1 24.4	1.720	2.634	10.0	22.2
2 21	10 58.34	− 0 34.1	1.672	2.637	5.9	22.0
3 2	10 48.51	+ 0 30.3	1.653	2.639	2.5	21.8
3 12	10 38.70	+ 1 41.8	1.662	2.641	4.7	21.9
3 22	10 29.97	+ 2 52.8	1.700	2.641	8.9	22.2
4 1	10 23.21	+ 3 56.5	1.764	2.641	12.8	22.4

32354 2000 QN_{119} 3 1.3 310°.86 2°.3/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.49	− 0 10.5	2.293	3.037	14.0	18.8
2 1	11 9.79	− 0 26.8	2.191	3.031	11.5	18.6
2 11	11 4.09	− 0 30.1	2.111	3.026	8.4	18.4
2 21	10 56.82	− 0 21.0	2.056	3.021	5.0	18.2
3 2	10 48.65	− 0 1.8	2.030	3.016	2.4	18.0
3 12	10 40.46	+ 0 23.7	2.033	3.011	4.1	18.1
3 22	10 33.06	+ 0 51.3	2.064	3.006	7.5	18.3
4 1	10 27.18	+ 1 16.6	2.122	3.001	10.8	18.5

199080 2005 XC_{78} 3 1.3 105°.77 3°.8/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.50	+12 59.6	1.576	2.376	17.0	20.9
2 1	11 15.23	+14 2.8	1.512	2.394	13.3	20.7
2 11	11 8.10	+15 16.5	1.470	2.411	9.0	20.5
2 21	10 58.82	+16 32.4	1.453	2.428	4.9	20.3
3 2	10 48.50	+17 40.8	1.464	2.445	4.2	20.2
3 12	10 38.49	+18 33.3	1.503	2.461	7.8	20.5
3 22	10 30.00	+19 5.2	1.567	2.477	11.8	20.8
4 1	10 23.90	+19 15.2	1.654	2.492	15.4	21.0

496733 2016 GJ_{241} 3 1.3 219°.96 4°.7/25.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.75	+17 54.2	2.134	2.934	13.2	21.6
2 1	11 11.05	+19 8.2	2.047	2.928	10.4	21.3
2 11	11 5.10	+20 28.4	1.984	2.921	7.4	21.2
2 21	10 57.36	+21 47.6	1.948	2.914	5.0	21.0
3 2	10 48.61	+22 57.6	1.941	2.907	5.3	21.0
3 12	10 39.87	+23 51.5	1.962	2.900	7.9	21.1
3 22	10 32.09	+24 25.3	2.010	2.892	11.0	21.3
4 1	10 26.08	+24 37.6	2.081	2.884	14.0	21.5

63562 2001 QA_{15} 3 1.3 120°.91 1°.0/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.55	+ 7 57.1	1.951	2.730	15.0	20.1
2 1	11 12.41	+ 8 25.3	1.871	2.740	11.8	19.9
2 11	11 5.95	+ 9 5.2	1.814	2.750	8.0	19.7
2 21	10 57.72	+ 9 52.3	1.782	2.760	3.8	19.4
3 2	10 48.59	+10 40.7	1.779	2.769	1.3	19.2
3 12	10 39.60	+11 24.1	1.805	2.778	5.2	19.5
3 22	10 31.72	+11 57.7	1.859	2.787	9.2	19.8
4 1	10 25.72	+12 18.3	1.938	2.795	12.7	20.0

56049 1998 XA_{44} 3 1.3 94°.53 2°.3/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.89	+11 7.8	1.901	2.685	15.1	19.3
2 1	11 14.13	+11 50.9	1.837	2.710	11.7	19.1
2 11	11 7.02	+12 43.2	1.796	2.735	7.9	18.9
2 21	10 58.18	+13 38.8	1.782	2.759	3.9	18.7
3 2	10 48.56	+14 30.8	1.797	2.782	2.6	18.7
3 12	10 39.25	+15 12.9	1.840	2.805	6.0	18.9
3 22	10 31.21	+15 41.0	1.912	2.828	9.7	19.2
4 1	10 25.17	+15 53.4	2.007	2.850	12.9	19.4

430410 1995 TL_{7} 3 1.3 97°.76 4°.0/26.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.23	+18 5.6	2.256	3.041	13.0	22.1
2 1	11 14.79	+18 51.9	2.196	3.069	10.1	22.0
2 11	11 7.25	+19 40.8	2.161	3.095	7.0	21.8
2 21	10 58.23	+20 26.1	2.154	3.122	4.5	21.7
3 2	10 48.57	+21 1.9	2.176	3.147	4.3	21.8
3 12	10 39.22	+21 23.7	2.228	3.172	6.7	21.9
3 22	10 31.04	+21 29.7	2.307	3.196	9.5	22.2
4 1	10 24.67	+21 19.9	2.412	3.220	12.1	22.4

20242 Sagot 3 1.3 147°.08 0°.2/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.34	+ 4 4.4	1.805	2.579	16.2	18.8
2 1	11 11.72	+ 4 42.8	1.721	2.585	12.9	18.6
2 11	11 5.64	+ 5 38.3	1.658	2.591	8.9	18.4
2 21	10 57.65	+ 6 46.6	1.620	2.597	4.4	18.1
3 2	10 48.60	+ 8 0.9	1.611	2.602	0.4	17.8
3 12	10 39.64	+ 9 13.0	1.630	2.607	5.2	18.2
3 22	10 31.80	+10 16.0	1.677	2.611	9.5	18.4
4 1	10 25.95	+11 4.6	1.749	2.615	13.4	18.7

459635 2013 JJ_{25} 3 1.3 271°.85 1°.1/29.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 14.30	+ 6 44.0	1.670	2.460	16.7	22.0
2 1	11 11.39	+ 7 20.2	1.569	2.445	13.3	21.7
2 11	11 5.77	+ 8 13.4	1.490	2.429	9.1	21.4
2 21	10 57.87	+ 9 19.1	1.434	2.412	4.4	21.1
3 2	10 48.57	+10 30.1	1.406	2.396	1.4	20.8
3 12	10 39.10	+11 37.5	1.406	2.380	6.2	21.1
3 22	10 30.70	+12 33.5	1.431	2.363	11.0	21.3
4 1	10 24.43	+13 12.5	1.480	2.346	15.4	21.6

117036 2004 JK_{24} 3 1.3 315°.54 1°.4/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.36	+ 1 31.5	2.240	2.997	13.9	20.2
2 1	11 8.18	+ 1 37.2	2.139	2.991	11.2	20.0
2 11	11 3.01	+ 1 56.8	2.061	2.985	8.0	19.8
2 21	10 56.30	+ 2 28.4	2.009	2.980	4.4	19.6
3 2	10 48.71	+ 3 8.7	1.985	2.974	1.4	19.3
3 12	10 41.10	+ 3 52.6	1.990	2.969	4.0	19.5
3 22	10 34.29	+ 4 35.1	2.023	2.964	7.7	19.7
4 1	10 28.99	+ 5 11.5	2.082	2.959	11.1	19.9

2034 Bernoulli 3 1.3 53°.17 5°.2/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 23.15	+16 53.4	1.178	1.999	20.4	15.4
2 1	11 18.88	+17 25.5	1.126	2.018	16.0	15.1
2 11	11 10.94	+18 3.6	1.093	2.037	11.0	14.9
2 21	11 0.27	+18 38.3	1.083	2.057	6.5	14.7
3 2	10 48.41	+18 59.7	1.098	2.078	5.6	14.7
3 12	10 37.20	+19 0.7	1.137	2.098	9.4	15.0
3 22	10 28.17	+18 39.8	1.200	2.119	13.9	15.3
4 1	10 22.28	+17 58.7	1.284	2.140	17.9	15.6

42027 2000 YL_{86} 3 1.3 99°.49 3°.6/ 4.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.42	− 3 33.5	1.687	2.433	18.2	19.3
2 1	11 12.70	− 3 44.0	1.607	2.445	15.0	19.1
2 11	11 6.37	− 3 33.3	1.546	2.457	11.2	18.9
2 21	10 58.02	− 3 2.2	1.508	2.469	7.0	18.7
3 2	10 48.58	− 2 14.0	1.497	2.480	3.8	18.5
3 12	10 39.27	− 1 15.5	1.514	2.492	5.3	18.6
3 22	10 31.21	− 0 14.2	1.558	2.503	9.2	18.9
4 1	10 25.28	+ 0 42.6	1.626	2.514	13.0	19.1

225136 2008 FT_{94} 3 1.3 241°.54 0°.3/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.74	+ 4 59.7	2.147	2.915	14.1	21.7
2 1	11 10.24	+ 5 35.3	2.040	2.902	11.3	21.5
2 11	11 4.57	+ 6 25.5	1.956	2.888	7.8	21.2
2 21	10 57.14	+ 7 26.9	1.898	2.875	3.8	20.9
3 2	10 48.66	+ 8 33.9	1.869	2.860	0.6	20.6
3 12	10 40.07	+ 9 40.0	1.870	2.845	4.8	20.9
3 22	10 32.31	+10 38.8	1.900	2.830	8.8	21.2
4 1	10 26.18	+11 25.5	1.954	2.814	12.4	21.3

457905 2009 UG_{6} 3 1.3 157°.63 0°.5/ 1.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.71	+ 3 1.8	2.383	3.135	13.3	22.5
2 1	11 10.57	+ 3 28.7	2.292	3.143	10.6	22.4
2 11	11 4.51	+ 4 8.8	2.223	3.149	7.4	22.2
2 21	10 56.99	+ 4 59.1	2.182	3.155	3.8	21.9
3 2	10 48.69	+ 5 55.3	2.170	3.161	0.5	21.7
3 12	10 40.44	+ 6 51.7	2.189	3.166	3.9	22.0
3 22	10 33.03	+ 7 43.4	2.237	3.170	7.5	22.2
4 1	10 27.12	+ 8 26.3	2.311	3.174	10.7	22.4

227306 2005 TE_{8} 3 1.3 22°.31 5°.2/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 5.92	− 9 26.3	1.354	2.111	21.4	19.5
2 1	11 5.02	− 9 11.6	1.283	2.122	18.0	19.3
2 11	11 1.40	− 8 23.0	1.228	2.134	13.9	19.1
2 21	10 55.66	− 7 1.0	1.194	2.148	9.4	18.9
3 2	10 48.79	− 5 11.4	1.184	2.163	5.7	18.7
3 12	10 42.08	− 3 5.3	1.200	2.178	6.1	18.8
3 22	10 36.71	− 0 56.4	1.240	2.195	9.9	19.0
4 1	10 33.57	+ 1 2.4	1.305	2.213	14.1	19.3

369606 2011 CN_{54} 3 1.3 113°.50 0°.1/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.91	+ 4 57.1	2.002	2.773	14.9	22.0
2 1	11 11.09	+ 5 17.0	1.918	2.781	11.8	21.8
2 11	11 5.05	+ 5 50.2	1.856	2.788	8.2	21.5
2 21	10 57.30	+ 6 33.5	1.820	2.796	4.0	21.3
3 2	10 48.66	+ 7 21.6	1.812	2.803	0.3	21.0
3 12	10 40.12	+ 8 8.6	1.834	2.811	4.6	21.4
3 22	10 32.61	+ 8 49.0	1.883	2.818	8.6	21.6
4 1	10 26.88	+ 9 18.9	1.958	2.825	12.1	21.8

233816 2008 US_{183} 3 1.3 169°.33 0°.5/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.95	+ 6 14.4	2.294	3.064	13.3	21.4
2 1	11 9.32	+ 6 47.3	2.203	3.066	10.5	21.2
2 11	11 3.72	+ 7 32.1	2.134	3.068	7.1	21.0
2 21	10 56.63	+ 8 25.1	2.092	3.069	3.4	20.8
3 2	10 48.72	+ 9 21.3	2.080	3.071	0.7	20.6
3 12	10 40.84	+10 14.8	2.097	3.071	4.4	20.8
3 22	10 33.81	+11 0.7	2.143	3.072	8.1	21.1
4 1	10 28.30	+11 35.4	2.215	3.073	11.3	21.3

87564 2000 RQ_{9} 3 1.3 106°.57 5°.3/24.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 19.30	+22 17.5	2.314	3.105	12.5	19.9
2 1	11 14.14	+23 24.0	2.257	3.129	9.9	19.8
2 11	11 6.86	+24 30.4	2.225	3.153	7.3	19.7
2 21	10 58.07	+25 29.7	2.221	3.176	5.5	19.6
3 2	10 48.61	+26 15.4	2.246	3.199	5.8	19.6
3 12	10 39.44	+26 43.1	2.299	3.221	7.8	19.8
3 22	10 31.40	+26 51.2	2.380	3.242	10.3	20.0
4 1	10 25.15	+26 40.5	2.484	3.263	12.6	20.2

144457 2004 EQ_{43} 3 1.3 316°.33 5°.1/25.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.18	+20 29.4	2.083	2.886	13.3	19.6
2 1	11 11.46	+21 13.6	1.994	2.875	10.6	19.4
2 11	11 5.41	+22 0.3	1.929	2.864	7.6	19.2
2 21	10 57.54	+22 43.0	1.889	2.854	5.4	19.0
3 2	10 48.66	+23 14.7	1.878	2.844	5.5	19.0
3 12	10 39.82	+23 30.0	1.895	2.834	8.0	19.1
3 22	10 32.01	+23 26.2	1.937	2.824	11.1	19.3
4 1	10 26.06	+23 3.2	2.002	2.815	14.1	19.5

341445 2007 TQ_{254} 3 1.3 111°.62 0°.9/29.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.44	+ 7 37.6	2.448	3.220	12.5	21.4
2 1	11 8.71	+ 8 14.7	2.366	3.231	9.8	21.3
2 11	11 3.18	+ 9 1.8	2.307	3.243	6.6	21.1
2 21	10 56.32	+ 9 54.9	2.276	3.253	3.1	20.9
3 2	10 48.77	+10 49.2	2.275	3.264	1.1	20.7
3 12	10 41.31	+11 39.4	2.303	3.275	4.3	21.0
3 22	10 34.68	+12 21.2	2.360	3.285	7.7	21.2
4 1	10 29.48	+12 51.7	2.444	3.295	10.6	21.4

117493 2005 CP_{19} 3 1.3 107°.55 0°.1/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.11	+ 4 5.5	1.771	2.542	16.6	20.6
2 1	11 13.02	+ 4 40.7	1.698	2.561	13.1	20.4
2 11	11 6.44	+ 5 32.4	1.646	2.579	9.0	20.1
2 21	10 58.00	+ 6 35.9	1.620	2.596	4.4	19.9
3 2	10 48.63	+ 7 44.5	1.622	2.613	0.4	19.6
3 12	10 39.47	+ 8 50.4	1.653	2.629	5.1	20.0
3 22	10 31.55	+ 9 46.9	1.712	2.645	9.4	20.3
4 1	10 25.69	+10 29.6	1.795	2.661	13.1	20.6

466294 2013 PC_{65} 3 1.3 214°.69 1°.5/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.12	− 0 18.5	2.074	2.825	15.1	22.6
2 1	11 9.76	+ 0 4.1	1.973	2.820	12.2	22.4
2 11	11 4.23	+ 0 44.7	1.894	2.815	8.8	22.1
2 21	10 56.97	+ 1 40.8	1.840	2.810	4.9	21.9
3 2	10 48.71	+ 2 48.2	1.815	2.804	1.6	21.6
3 12	10 40.40	+ 4 0.3	1.819	2.798	4.3	21.8
3 22	10 32.97	+ 5 10.2	1.852	2.792	8.3	22.0
4 1	10 27.21	+ 6 11.8	1.910	2.785	12.0	22.3

59875 1999 RN_{114} 3 1.3 243°.12 0°.8/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.83	+ 8 4.1	2.746	3.514	11.4	20.1
2 1	11 8.17	+ 8 32.4	2.639	3.503	8.9	19.9
2 11	11 2.83	+ 9 9.7	2.557	3.492	6.1	19.7
2 21	10 56.18	+ 9 52.8	2.503	3.480	2.9	19.5
3 2	10 48.78	+10 37.6	2.479	3.468	1.0	19.3
3 12	10 41.34	+11 19.6	2.485	3.456	4.1	19.5
3 22	10 34.54	+11 54.9	2.520	3.444	7.3	19.7
4 1	10 29.00	+12 20.7	2.581	3.431	10.1	19.9

104830 2000 HD_{63} 3 1.3 18°.18 1°.4/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.45	+ 7 19.8	1.357	2.168	18.7	19.5
2 1	11 9.42	+ 7 54.2	1.286	2.173	14.7	19.3
2 11	11 4.46	+ 8 46.2	1.234	2.179	10.0	19.0
2 21	10 57.19	+ 9 49.7	1.206	2.185	4.8	18.7
3 2	10 48.69	+10 56.0	1.203	2.193	1.7	18.5
3 12	10 40.37	+11 55.3	1.225	2.201	6.6	18.9
3 22	10 33.50	+12 40.1	1.273	2.210	11.6	19.2
4 1	10 29.04	+13 5.8	1.341	2.220	15.9	19.4

165245 2000 SN_{148} 3 1.3 186°.61 2°.1/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.24	− 1 28.5	2.040	2.780	15.6	21.6
2 1	11 12.23	− 1 13.7	1.941	2.780	12.8	21.4
2 11	11 5.92	− 0 40.6	1.864	2.779	9.3	21.2
2 21	10 57.81	+ 0 9.1	1.812	2.778	5.4	20.9
3 2	10 48.65	+ 1 11.3	1.788	2.776	2.2	20.7
3 12	10 39.46	+ 2 19.7	1.795	2.773	4.4	20.9
3 22	10 31.22	+ 3 27.4	1.829	2.770	8.4	21.1
4 1	10 24.76	+ 4 28.1	1.890	2.765	12.1	21.3

204995 1996 TZ_{2} 3 1.3 53°.72 3°.7/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.23	+16 55.4	1.961	2.757	14.3	19.9
2 1	11 13.59	+17 22.9	1.898	2.777	11.1	19.7
2 11	11 6.64	+17 53.9	1.859	2.797	7.7	19.5
2 21	10 58.01	+18 22.6	1.845	2.818	4.5	19.4
3 2	10 48.65	+18 43.1	1.860	2.838	4.0	19.4
3 12	10 39.61	+18 50.9	1.904	2.859	6.7	19.6
3 22	10 31.84	+18 44.0	1.975	2.880	10.0	19.8
4 1	10 26.03	+18 22.3	2.069	2.901	13.0	20.1

66415 1999 NG_8 3 1.3 196°.51 0°.1/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 17.09	+ 4 50.8	2.085	2.847	14.7	20.4
2 1	11 12.85	+ 5 15.7	1.987	2.845	11.7	20.2
2 11	11 6.33	+ 5 54.5	1.911	2.842	8.1	19.9
2 21	10 58.00	+ 6 43.8	1.862	2.838	4.0	19.7
3 2	10 48.64	+ 7 38.4	1.842	2.833	0.3	19.4
3 12	10 39.25	+ 8 32.1	1.852	2.827	4.7	19.7
3 22	10 30.81	+ 9 19.2	1.890	2.821	8.8	19.9
4 1	10 24.14	+ 9 55.4	1.954	2.815	12.4	20.1

401902 2001 TF_{20} 3 1.3 108°.41 6°.0/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.94	−14 24.5	2.345	3.002	15.9	20.7
2 1	11 11.53	−14 40.3	2.263	3.027	13.7	20.6
2 11	11 5.14	−14 34.3	2.201	3.052	11.1	20.4
2 21	10 57.29	−14 5.5	2.162	3.075	8.5	20.3
3 2	10 48.71	−13 15.4	2.150	3.098	6.4	20.2
3 12	10 40.26	−12 8.3	2.167	3.120	6.2	20.2
3 22	10 32.76	−10 50.4	2.212	3.142	7.8	20.4
4 1	10 26.87	− 9 28.8	2.284	3.163	10.2	20.5

298773 2004 OK_5 3 1.3 255°.12 1°.6/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.09	+ 2 16.9	1.667	2.435	17.6	21.4
2 1	11 14.45	+ 2 12.4	1.562	2.419	14.3	21.1
2 11	11 7.94	+ 2 24.8	1.476	2.404	10.3	20.8
2 21	10 59.01	+ 2 52.8	1.415	2.387	5.6	20.5
3 2	10 48.55	+ 3 32.3	1.381	2.370	1.6	20.2
3 12	10 37.84	+ 4 16.9	1.374	2.353	5.4	20.4
3 22	10 28.22	+ 4 59.6	1.394	2.336	10.4	20.6
4 1	10 20.81	+ 5 34.2	1.438	2.317	14.9	20.8

6286 1983 EU 3 1.3 329°.50 1°.4/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.43	+ 1 1.4	1.313	2.108	20.1	16.8
2 1	11 9.71	+ 1 18.1	1.227	2.101	16.3	16.5
2 11	11 4.92	+ 1 59.6	1.160	2.095	11.6	16.2
2 21	10 57.56	+ 3 3.3	1.114	2.089	6.3	15.9
3 2	10 48.67	+ 4 22.5	1.093	2.083	1.4	15.6
3 12	10 39.72	+ 5 46.6	1.097	2.078	6.0	15.9
3 22	10 32.13	+ 7 4.6	1.126	2.074	11.5	16.1
4 1	10 27.09	+ 8 7.5	1.176	2.070	16.5	16.4

370044 2000 SY_{131} 3 1.3 180°.20 5°.2/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.30	−10 31.5	2.457	3.137	14.7	21.4
2 1	11 11.11	−10 57.8	2.354	3.138	12.6	21.2
2 11	11 4.97	−11 6.1	2.271	3.139	10.1	21.0
2 21	10 57.28	−10 55.3	2.212	3.139	7.5	20.8
3 2	10 48.71	−10 26.2	2.180	3.139	5.5	20.7
3 12	10 40.09	− 9 41.9	2.177	3.138	5.6	20.7
3 22	10 32.25	− 8 47.3	2.203	3.137	7.6	20.8
4 1	10 25.89	− 7 48.4	2.256	3.135	10.3	21.0

492531 2014 OZ_{83} 3 1.3 269°.26 1°.1/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.42	+ 3 37.6	1.601	2.376	17.9	22.6
2 1	11 14.94	+ 3 34.3	1.491	2.354	14.6	22.3
2 11	11 8.45	+ 3 47.7	1.401	2.332	10.4	22.0
2 21	10 59.35	+ 4 15.9	1.335	2.309	5.5	21.7
3 2	10 48.53	+ 4 54.8	1.296	2.286	1.1	21.3
3 12	10 37.34	+ 5 37.3	1.284	2.263	5.7	21.6
3 22	10 27.22	+ 6 16.4	1.298	2.239	11.1	21.8
4 1	10 19.42	+ 6 45.8	1.336	2.214	15.9	22.0

142704 2002 TM_{256} 3 1.3 208°.34 1°.4/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.86	+ 0 4.2	2.284	3.026	14.1	21.4
2 1	11 10.94	+ 0 28.0	2.177	3.019	11.4	21.2
2 11	11 4.94	+ 1 8.0	2.093	3.012	8.2	21.0
2 21	10 57.31	+ 2 2.0	2.035	3.004	4.5	20.7
3 2	10 48.71	+ 3 6.1	2.006	2.996	1.4	20.5
3 12	10 40.04	+ 4 14.2	2.008	2.986	4.1	20.7
3 22	10 32.17	+ 5 20.3	2.039	2.976	7.9	20.9
4 1	10 25.85	+ 6 18.9	2.096	2.966	11.3	21.1

465444 2008 RU_{134} 3 1.3 168°.20 1°.8/27.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.95	+ 8 6.7	2.478	3.252	12.3	21.6
2 1	11 8.42	+ 9 26.4	2.388	3.256	9.6	21.4
2 11	11 3.07	+10 58.5	2.322	3.259	6.4	21.2
2 21	10 56.32	+12 37.4	2.285	3.262	3.1	21.0
3 2	10 48.80	+14 16.3	2.279	3.264	2.2	20.9
3 12	10 41.28	+15 48.2	2.304	3.266	5.1	21.1
3 22	10 34.52	+17 7.2	2.358	3.268	8.4	21.3
4 1	10 29.16	+18 9.7	2.438	3.269	11.3	21.5

434170 2002 TN_{99} 3 1.3 69°.18 3°.5/ 4.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.96	− 4 58.0	2.157	2.879	15.4	21.2
2 1	11 10.80	− 5 6.1	2.087	2.908	12.7	21.1
2 11	11 4.65	− 4 56.4	2.037	2.937	9.5	20.9
2 21	10 57.04	− 4 30.0	2.012	2.966	6.2	20.8
3 2	10 48.75	− 3 49.8	2.015	2.994	3.6	20.6
3 12	10 40.68	− 3 0.7	2.048	3.022	4.5	20.7
3 22	10 33.62	− 2 8.4	2.108	3.050	7.4	21.0
4 1	10 28.22	− 1 18.5	2.195	3.078	10.3	21.2

386629 2009 SM_{86} 3 1.3 84°.43 0°.5/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 17.70	+ 7 29.1	1.907	2.683	15.4	21.2
2 1	11 13.33	+ 7 37.6	1.830	2.696	12.1	21.0
2 11	11 6.59	+ 7 57.2	1.775	2.710	8.3	20.8
2 21	10 58.08	+ 8 24.1	1.746	2.723	4.0	20.6
3 2	10 48.67	+ 8 53.4	1.745	2.736	0.7	20.3
3 12	10 39.45	+ 9 19.8	1.773	2.749	4.9	20.7
3 22	10 31.41	+ 9 38.8	1.829	2.762	9.0	20.9
4 1	10 25.31	+ 9 47.5	1.910	2.774	12.5	21.2

372484 2009 SY_{213} 3 1.3 181°.97 0°.7/29.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.55	+ 7 6.9	2.439	3.202	12.8	22.7
2 1	11 11.24	+ 7 38.0	2.343	3.203	10.1	22.5
2 11	11 5.00	+ 8 19.6	2.271	3.204	6.9	22.3
2 21	10 57.27	+ 9 8.2	2.227	3.204	3.3	22.1
3 2	10 48.73	+ 9 59.0	2.212	3.203	0.9	21.9
3 12	10 40.20	+10 46.8	2.229	3.201	4.4	22.2
3 22	10 32.49	+11 27.0	2.274	3.199	7.9	22.4
4 1	10 26.28	+11 56.4	2.346	3.196	11.0	22.6

502059 2015 AZ_{170} 3 1.3 140°.76 1°.1/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.47	+ 2 52.2	2.154	2.911	14.4	22.1
2 1	11 11.41	+ 2 54.6	2.063	2.915	11.6	21.9
2 11	11 5.23	+ 3 10.1	1.995	2.920	8.2	21.7
2 21	10 57.42	+ 3 36.4	1.952	2.924	4.4	21.5
3 2	10 48.72	+ 4 9.9	1.938	2.928	1.1	21.2
3 12	10 40.08	+ 4 45.7	1.953	2.931	4.1	21.5
3 22	10 32.38	+ 5 18.9	1.997	2.935	8.0	21.7
4 1	10 26.35	+ 5 45.5	2.066	2.938	11.4	21.9

272967 2006 CT_{60} 3 1.3 348°.71 8°.5/23.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.46	+26 28.3	1.643	2.461	15.6	19.8
2 1	11 13.18	+27 41.6	1.574	2.457	12.8	19.6
2 11	11 6.95	+28 53.4	1.526	2.453	10.1	19.4
2 21	10 58.41	+29 53.1	1.503	2.449	8.5	19.3
3 2	10 48.65	+30 31.0	1.505	2.446	9.2	19.3
3 12	10 39.08	+30 40.6	1.531	2.444	11.7	19.5
3 22	10 30.99	+30 20.5	1.581	2.442	14.6	19.7
4 1	10 25.35	+29 33.2	1.650	2.441	17.5	19.8

426982 2014 AX_{48} 3 1.3 296°.93 0°.8/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 9.41	+ 6 8.5	2.280	3.057	13.1	20.7
2 1	11 6.68	+ 6 56.6	2.179	3.048	10.3	20.5
2 11	11 2.03	+ 7 58.1	2.101	3.038	7.1	20.2
2 21	10 55.87	+ 9 9.2	2.051	3.028	3.4	20.0
3 2	10 48.85	+10 24.0	2.029	3.019	1.1	19.8
3 12	10 41.79	+11 36.0	2.037	3.010	4.7	20.0
3 22	10 35.48	+12 39.3	2.073	3.001	8.4	20.2
4 1	10 30.62	+13 29.4	2.134	2.991	11.7	20.4

147670 2004 LT_3 3 1.3 280°.71 3°.3/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.05	+12 35.9	1.833	2.633	15.0	20.0
2 1	11 11.00	+13 29.1	1.732	2.614	11.8	19.7
2 11	11 5.40	+14 34.0	1.654	2.596	8.1	19.4
2 21	10 57.69	+15 44.3	1.601	2.578	4.4	19.2
3 2	10 48.71	+16 52.0	1.577	2.559	3.7	19.1
3 12	10 39.57	+17 48.8	1.580	2.540	7.3	19.2
3 22	10 31.44	+18 28.5	1.609	2.522	11.4	19.4
4 1	10 25.28	+18 47.9	1.661	2.503	15.2	19.6

116956 2004 HG_3 3 1.3 276°.15 3°.7/26.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.91	+18 16.0	2.519	3.305	11.8	19.9
2 1	11 12.47	+18 48.3	2.410	3.283	9.3	19.7
2 11	11 5.97	+19 23.9	2.325	3.259	6.6	19.5
2 21	10 57.82	+19 57.9	2.267	3.236	4.2	19.3
3 2	10 48.70	+20 24.7	2.239	3.212	4.0	19.3
3 12	10 39.50	+20 39.8	2.241	3.188	6.5	19.4
3 22	10 31.07	+20 40.4	2.271	3.164	9.5	19.5
4 1	10 24.17	+20 25.4	2.325	3.139	12.3	19.7

151150 2001 XM_{59} 3 1.3 121°.83 0°.6/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.87	+ 6 3.9	2.292	3.055	13.5	21.2
2 1	11 11.47	+ 6 42.2	2.214	3.074	10.6	21.0
2 11	11 5.11	+ 7 32.1	2.160	3.092	7.2	20.8
2 21	10 57.30	+ 8 29.5	2.133	3.109	3.4	20.6
3 2	10 48.77	+ 9 29.1	2.135	3.126	0.8	20.5
3 12	10 40.39	+10 25.1	2.169	3.142	4.4	20.8
3 22	10 32.95	+11 12.7	2.231	3.157	7.9	21.0
4 1	10 27.11	+11 48.6	2.319	3.172	11.0	21.2

246184 2007 RA_{58} 3 1.3 60°.82 11°.1/20.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 29.59	+41 56.1	2.122	2.887	14.4	20.0
2 1	11 22.79	+43 0.4	2.081	2.903	12.7	20.0
2 11	11 13.00	+43 49.5	2.062	2.918	11.5	19.9
2 21	11 1.12	+44 14.1	2.067	2.934	11.1	19.9
3 2	10 48.49	+44 8.0	2.096	2.949	11.6	20.0
3 12	10 36.56	+43 29.5	2.149	2.965	12.9	20.1
3 22	10 26.56	+42 21.5	2.225	2.981	14.5	20.2
4 1	10 19.23	+40 49.8	2.320	2.996	16.0	20.4

269967 2000 SB_{309} 3 1.3 65°.32 0°.7/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 19.99	+ 8 23.3	1.764	2.543	16.3	20.5
2 1	11 15.14	+ 8 29.4	1.700	2.569	12.8	20.4
2 11	11 7.80	+ 8 46.1	1.659	2.595	8.7	20.2
2 21	10 58.64	+ 9 9.2	1.643	2.620	4.2	19.9
3 2	10 48.68	+ 9 33.5	1.656	2.646	0.9	19.8
3 12	10 39.08	+ 9 53.6	1.697	2.672	5.2	20.1
3 22	10 30.86	+10 5.6	1.765	2.697	9.3	20.4
4 1	10 24.77	+10 7.0	1.859	2.722	12.8	20.7

322780 2001 OX_4 3 1.3 220°.09 5°.8/ 6.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.68	−11 38.0	2.372	3.047	15.3	21.1
2 1	11 11.63	−12 7.0	2.258	3.038	13.2	21.0
2 11	11 5.48	−12 17.0	2.164	3.027	10.7	20.8
2 21	10 57.63	−12 6.4	2.093	3.016	8.1	20.6
3 2	10 48.74	−11 35.2	2.050	3.005	6.1	20.4
3 12	10 39.69	−10 46.4	2.035	2.993	6.1	20.4
3 22	10 31.38	− 9 45.0	2.048	2.980	8.2	20.5
4 1	10 24.60	− 8 37.7	2.088	2.966	11.0	20.6

286817 2002 LP_{35} 3 1.3 252°.00 2°.0/28.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.30	+ 8 48.1	1.940	2.724	14.9	21.5
2 1	11 11.84	+ 9 39.7	1.833	2.705	11.8	21.3
2 11	11 5.92	+10 45.9	1.748	2.687	8.0	21.0
2 21	10 57.95	+12 1.5	1.690	2.668	4.0	20.7
3 2	10 48.71	+13 19.3	1.660	2.648	2.3	20.6
3 12	10 39.28	+14 30.9	1.660	2.627	6.2	20.8
3 22	10 30.75	+15 29.3	1.686	2.606	10.5	21.0
4 1	10 24.10	+16 10.0	1.737	2.584	14.4	21.2

53142 1999 BR_7 3 1.3 69°.16 2°.7/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.40	+ 9 18.5	1.630	2.428	16.6	19.2
2 1	11 11.09	+10 31.3	1.569	2.450	12.9	19.0
2 11	11 5.22	+11 58.0	1.530	2.473	8.6	18.8
2 21	10 57.45	+13 30.7	1.517	2.495	4.3	18.6
3 2	10 48.77	+14 59.8	1.532	2.517	3.1	18.5
3 12	10 40.38	+16 16.0	1.574	2.539	6.8	18.8
3 22	10 33.32	+17 13.3	1.643	2.561	10.8	19.1
4 1	10 28.38	+17 49.0	1.735	2.583	14.3	19.4

377852 2006 BU_{199} 3 1.3 60°.32 0°.7/29.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.06	+ 5 59.2	1.958	2.739	14.9	21.5
2 1	11 8.99	+ 6 38.9	1.872	2.742	11.7	21.3
2 11	11 3.71	+ 7 32.9	1.809	2.746	8.0	21.0
2 21	10 56.73	+ 8 36.9	1.772	2.749	3.8	20.8
3 2	10 48.83	+ 9 44.5	1.762	2.753	1.0	20.6
3 12	10 40.98	+10 48.6	1.782	2.756	5.0	20.9
3 22	10 34.12	+11 42.9	1.829	2.760	9.1	21.1
4 1	10 29.01	+12 23.3	1.901	2.764	12.6	21.3

309372 2007 TK_{113} 3 1.3 73°.45 1°.5/29.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.95	+ 6 30.7	1.515	2.310	17.8	20.2
2 1	11 11.75	+ 7 27.8	1.450	2.328	14.0	20.0
2 11	11 5.81	+ 8 42.4	1.405	2.346	9.4	19.8
2 21	10 57.79	+10 7.5	1.386	2.364	4.5	19.6
3 2	10 48.75	+11 33.8	1.393	2.383	1.8	19.4
3 12	10 39.98	+12 51.4	1.429	2.401	6.3	19.8
3 22	10 32.61	+13 52.8	1.490	2.419	10.9	20.1
4 1	10 27.53	+14 34.0	1.574	2.437	14.8	20.3

127962 2003 HG_{21} 3 1.3 331°.54 3°.9/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 7.21	− 5 8.4	1.274	2.054	21.4	19.3
2 1	11 6.51	− 4 58.9	1.183	2.042	17.8	19.0
2 11	11 2.84	− 4 17.2	1.110	2.032	13.5	18.7
2 21	10 56.62	− 3 2.9	1.057	2.022	8.5	18.4
3 2	10 48.82	− 1 21.0	1.027	2.012	4.2	18.2
3 12	10 40.88	+ 0 37.7	1.022	2.004	6.1	18.2
3 22	10 34.23	+ 2 38.9	1.041	1.996	11.3	18.5
4 1	10 30.08	+ 4 28.9	1.082	1.990	16.4	18.7

145401 2005 NL_{70} 3 1.3 209°.67 1°.9/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.65	+11 33.8	2.795	3.573	10.9	20.7
2 1	11 8.00	+12 18.4	2.698	3.568	8.5	20.5
2 11	11 2.70	+13 10.3	2.626	3.563	5.8	20.3
2 21	10 56.14	+14 5.4	2.582	3.558	3.0	20.1
3 2	10 48.88	+14 59.0	2.569	3.553	2.2	20.1
3 12	10 41.63	+15 46.4	2.585	3.547	4.7	20.2
3 22	10 35.03	+16 23.8	2.631	3.541	7.6	20.4
4 1	10 29.68	+16 49.0	2.703	3.535	10.3	20.6

76439 2000 FP_{29} 3 1.3 64°.97 0°.6/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.30	+ 2 59.9	2.082	2.848	14.6	19.4
2 1	11 8.98	+ 3 19.8	1.998	2.856	11.6	19.2
2 11	11 3.60	+ 3 54.2	1.935	2.864	8.1	19.0
2 21	10 56.64	+ 4 40.0	1.899	2.873	4.2	18.8
3 2	10 48.85	+ 5 32.4	1.891	2.881	0.6	18.5
3 12	10 41.15	+ 6 25.5	1.912	2.890	4.2	18.8
3 22	10 34.40	+ 7 13.9	1.960	2.899	8.1	19.0
4 1	10 29.28	+ 7 52.9	2.034	2.907	11.5	19.3

189026 1999 RH_{240} 3 1.3 181°.63 3°.6/25.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 16.25	+18 19.6	2.854	3.635	10.7	21.5
2 1	11 11.54	+19 13.8	2.766	3.637	8.3	21.3
2 11	11 5.08	+20 11.1	2.704	3.637	5.9	21.1
2 21	10 57.30	+21 6.4	2.671	3.637	3.9	21.0
3 2	10 48.81	+21 54.6	2.669	3.636	4.0	21.0
3 12	10 40.36	+22 31.1	2.697	3.634	6.0	21.1
3 22	10 32.66	+22 53.4	2.753	3.632	8.5	21.3
4 1	10 26.33	+23 0.4	2.834	3.629	10.8	21.4

57669 2001 UO_{29} 3 1.3 29°.30 10°.6/21.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.76	+30 8.0	1.448	2.270	17.2	18.2
2 1	11 15.30	+31 37.5	1.399	2.279	14.3	18.0
2 11	11 8.49	+33 0.1	1.371	2.289	11.8	17.9
2 21	10 59.16	+34 3.5	1.366	2.299	10.6	17.9
3 2	10 48.66	+34 36.8	1.385	2.311	11.4	17.9
3 12	10 38.65	+34 34.8	1.428	2.322	13.6	18.1
3 22	10 30.52	+33 58.5	1.491	2.335	16.3	18.3
4 1	10 25.21	+32 53.0	1.573	2.348	18.9	18.5

321320 2009 HX_{58} 3 1.3 17°.27 6°.0/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.93	−12 37.2	1.853	2.562	18.0	19.9
2 1	11 5.15	−12 40.2	1.767	2.569	15.4	19.7
2 11	11 1.18	−12 16.1	1.699	2.576	12.4	19.5
2 21	10 55.52	−11 24.3	1.652	2.584	9.2	19.4
3 2	10 48.94	−10 7.0	1.630	2.593	6.5	19.2
3 12	10 42.41	− 8 30.7	1.635	2.602	6.3	19.2
3 22	10 36.86	− 6 44.4	1.666	2.613	8.6	19.4
4 1	10 33.05	− 4 57.9	1.723	2.624	11.7	19.6

256180 2006 VT_{71} 3 1.3 29°.00 3°.2/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.26	− 2 17.7	1.523	2.291	19.0	20.3
2 1	11 9.77	− 2 23.1	1.444	2.297	15.5	20.1
2 11	11 4.59	− 2 6.0	1.384	2.304	11.4	19.8
2 21	10 57.28	− 1 27.5	1.346	2.311	6.9	19.6
3 2	10 48.80	− 0 32.0	1.333	2.319	3.3	19.4
3 12	10 40.42	+ 0 32.9	1.347	2.327	5.3	19.5
3 22	10 33.32	+ 1 38.6	1.387	2.336	9.7	19.8
4 1	10 28.40	+ 2 37.2	1.450	2.345	13.8	20.1

17242 Leslieyoung 3 1.3 301°.95 1°.0/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.70	+ 6 31.7	1.654	2.447	16.7	19.0
2 1	11 10.09	+ 7 5.5	1.560	2.437	13.2	18.8
2 11	11 4.85	+ 7 55.9	1.488	2.427	9.1	18.5
2 21	10 57.46	+ 8 58.3	1.439	2.418	4.4	18.2
3 2	10 48.79	+10 5.8	1.418	2.408	1.2	17.9
3 12	10 40.04	+11 9.7	1.424	2.399	5.9	18.2
3 22	10 32.41	+12 2.5	1.456	2.390	10.7	18.5
4 1	10 26.87	+12 39.1	1.511	2.381	14.9	18.7

398777 2013 AX_{104} 3 1.3 322°.66 1°.0/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.10	+ 4 55.6	1.373	2.177	18.9	20.7
2 1	11 9.34	+ 5 44.5	1.287	2.170	15.0	20.5
2 11	11 4.62	+ 6 56.2	1.221	2.163	10.3	20.2
2 21	10 57.43	+ 8 25.3	1.177	2.156	5.0	19.8
3 2	10 48.79	+10 2.3	1.160	2.150	1.4	19.6
3 12	10 40.09	+11 35.1	1.169	2.145	6.7	19.9
3 22	10 32.71	+12 53.3	1.202	2.139	12.1	20.2
4 1	10 27.77	+13 49.7	1.257	2.134	16.8	20.4

54302 2000 JA_{66} 3 1.3 199°.25 3°.2/27.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.30	+11 39.5	1.962	2.756	14.3	19.4
2 1	11 10.07	+12 52.7	1.875	2.755	11.2	19.2
2 11	11 4.54	+14 17.9	1.812	2.753	7.6	18.9
2 21	10 57.19	+15 48.2	1.775	2.751	4.1	18.7
3 2	10 48.82	+17 15.3	1.767	2.749	3.6	18.7
3 12	10 40.46	+18 30.8	1.789	2.746	6.9	18.9
3 22	10 33.09	+19 28.7	1.837	2.743	10.6	19.1
4 1	10 27.54	+20 5.9	1.908	2.740	13.9	19.3

226933 2004 TV_{286} 3 1.3 106°.05 2°.8/27.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.36	+13 20.5	2.150	2.937	13.5	20.4
2 1	11 12.04	+14 4.7	2.078	2.952	10.5	20.2
2 11	11 5.60	+14 55.9	2.029	2.968	7.1	20.0
2 21	10 57.59	+15 48.5	2.007	2.983	3.8	19.8
3 2	10 48.81	+16 36.3	2.015	2.997	3.1	19.8
3 12	10 40.21	+17 13.7	2.052	3.012	6.0	20.0
3 22	10 32.67	+17 37.3	2.117	3.026	9.3	20.2
4 1	10 26.87	+17 45.5	2.206	3.039	12.2	20.5

412577 2014 OA_{15} 3 1.3 157°.08 2°.7/27.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.47	+10 31.0	1.861	2.650	15.2	21.7
2 1	11 12.61	+11 36.3	1.780	2.657	11.9	21.5
2 11	11 6.29	+12 54.1	1.722	2.662	8.0	21.3
2 21	10 58.04	+14 17.9	1.691	2.668	4.1	21.0
3 2	10 48.77	+15 39.0	1.688	2.672	3.1	21.0
3 12	10 39.57	+16 49.1	1.714	2.676	6.6	21.2
3 22	10 31.51	+17 42.2	1.767	2.680	10.6	21.4
4 1	10 25.44	+18 15.5	1.844	2.682	14.0	21.7

52375 1993 FV_{53} 3 1.3 280°.78 3°.0/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 13.42	+14 41.1	2.323	3.115	12.5	19.9
2 1	11 9.82	+15 20.7	2.226	3.103	9.8	19.7
2 11	11 4.19	+16 6.7	2.152	3.092	6.7	19.5
2 21	10 56.97	+16 54.1	2.106	3.080	3.8	19.3
3 2	10 48.85	+17 37.2	2.088	3.068	3.4	19.3
3 12	10 40.70	+18 10.5	2.100	3.057	6.1	19.4
3 22	10 33.39	+18 30.3	2.139	3.045	9.3	19.6
4 1	10 27.62	+18 34.8	2.202	3.033	12.3	19.8

272656 2005 WS_{174} 3 1.3 146°.50 2°.8/27.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.81	+12 22.7	1.977	2.770	14.3	21.0
2 1	11 11.16	+13 8.5	1.894	2.772	11.2	20.8
2 11	11 5.22	+14 3.6	1.834	2.774	7.6	20.6
2 21	10 57.49	+15 2.0	1.799	2.776	4.0	20.4
3 2	10 48.81	+15 57.0	1.794	2.778	3.1	20.3
3 12	10 40.20	+16 41.9	1.817	2.779	6.3	20.5
3 22	10 32.65	+17 12.1	1.867	2.781	10.0	20.7
4 1	10 26.93	+17 25.5	1.941	2.782	13.3	20.9

456764 2007 TW_{103} 3 1.3 118°.42 0°.1/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.39	+ 4 16.7	1.891	2.658	15.8	22.9
2 1	11 13.12	+ 4 50.4	1.815	2.675	12.5	22.7
2 11	11 6.49	+ 5 39.5	1.761	2.692	8.6	22.5
2 21	10 58.08	+ 6 39.6	1.732	2.708	4.2	22.2
3 2	10 48.77	+ 7 44.6	1.733	2.724	0.4	21.9
3 12	10 39.64	+ 8 47.1	1.763	2.739	4.8	22.3
3 22	10 31.67	+ 9 41.0	1.820	2.753	9.0	22.6
4 1	10 25.64	+10 21.9	1.903	2.767	12.6	22.9

340760 2006 SY_{307} 3 1.3 5°.40 3°.7/27.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.16	+18 5.9	2.222	3.012	13.0	20.3
2 1	11 13.49	+18 25.7	2.137	3.012	10.2	20.1
2 11	11 6.64	+18 47.8	2.077	3.013	7.1	19.9
2 21	10 58.13	+19 7.2	2.043	3.013	4.4	19.7
3 2	10 48.77	+19 18.7	2.038	3.014	4.0	19.7
3 12	10 39.55	+19 18.1	2.062	3.015	6.5	19.9
3 22	10 31.37	+19 3.5	2.113	3.015	9.6	20.1
4 1	10 24.97	+18 34.8	2.190	3.017	12.5	20.2

299976 2006 TT_{111} 3 1.3 179°.67 0°.5/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.82	+ 6 4.9	3.045	3.803	10.6	22.3
2 1	11 7.17	+ 6 48.4	2.947	3.804	8.3	22.1
2 11	11 2.04	+ 7 41.5	2.873	3.805	5.6	21.9
2 21	10 55.80	+ 8 41.0	2.829	3.805	2.7	21.7
3 2	10 48.95	+ 9 42.9	2.815	3.805	0.7	21.6
3 12	10 42.11	+10 42.6	2.832	3.804	3.6	21.8
3 22	10 35.86	+11 36.2	2.879	3.803	6.5	22.0
4 1	10 30.72	+12 20.4	2.954	3.802	9.0	22.2

26110 1991 NK_{4} 3 1.3 233°.89 2°.6/28.0 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.87	+ 9 34.5	1.794	2.582	15.7	18.2
2 1	11 13.28	+10 35.3	1.693	2.569	12.4	17.9
2 11	11 7.03	+11 51.5	1.615	2.555	8.5	17.7
2 21	10 58.56	+13 17.1	1.563	2.541	4.3	17.4
3 2	10 48.73	+14 43.4	1.539	2.525	3.0	17.3
3 12	10 38.73	+16 0.8	1.545	2.509	6.9	17.5
3 22	10 29.78	+17 1.9	1.576	2.493	11.4	17.7
4 1	10 22.89	+17 42.3	1.632	2.475	15.3	17.9

30464 2000 OH_{12} 3 1.3 216°.47 1°.1/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.56	+ 2 8.8	2.055	2.813	15.0	19.0
2 1	11 10.93	+ 2 21.1	1.956	2.809	12.1	18.8
2 11	11 5.08	+ 2 48.7	1.880	2.805	8.5	18.6
2 21	10 57.46	+ 3 29.2	1.828	2.801	4.6	18.3
3 2	10 48.82	+ 4 18.2	1.806	2.796	1.1	18.1
3 12	10 40.16	+ 5 10.1	1.812	2.791	4.4	18.3
3 22	10 32.41	+ 5 58.8	1.846	2.785	8.4	18.5
4 1	10 26.38	+ 6 39.4	1.906	2.780	12.1	18.7

415926 2001 UA_{214} 3 1.3 75°.70 1°.2/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.89	+ 0 48.2	1.783	2.548	16.7	21.9
2 1	11 10.53	+ 1 12.5	1.708	2.564	13.4	21.7
2 11	11 4.80	+ 1 55.5	1.654	2.580	9.4	21.5
2 21	10 57.28	+ 2 53.8	1.625	2.597	5.0	21.2
3 2	10 48.85	+ 4 1.5	1.623	2.613	1.2	21.0
3 12	10 40.60	+ 5 11.1	1.650	2.630	4.6	21.3
3 22	10 33.50	+ 6 15.4	1.704	2.646	8.8	21.6
4 1	10 28.34	+ 7 8.6	1.784	2.662	12.5	21.8

346761 2009 BH_{57} 3 1.3 283°.82 1°.0/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.02	+ 7 53.8	2.272	3.050	13.1	21.7
2 1	11 8.77	+ 8 22.7	2.169	3.038	10.4	21.5
2 11	11 3.51	+ 9 2.6	2.088	3.025	7.1	21.2
2 21	10 56.66	+ 9 49.9	2.035	3.012	3.4	21.0
3 2	10 48.89	+10 39.6	2.010	3.000	1.2	20.8
3 12	10 41.06	+11 26.0	2.014	2.987	4.7	21.0
3 22	10 34.01	+12 4.3	2.047	2.974	8.5	21.2
4 1	10 28.48	+12 31.0	2.105	2.962	11.8	21.4

490060 2008 TC_{90} 3 1.3 154°.17 0°.2/ 1.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 13.75	+ 4 22.8	2.485	3.242	12.7	22.6
2 1	11 9.77	+ 4 48.1	2.394	3.248	10.1	22.4
2 11	11 3.98	+ 5 25.2	2.326	3.254	7.0	22.2
2 21	10 56.80	+ 6 10.9	2.285	3.260	3.5	22.0
3 2	10 48.89	+ 7 1.0	2.274	3.265	0.2	21.7
3 12	10 41.03	+ 7 50.6	2.293	3.269	3.9	22.0
3 22	10 33.96	+ 8 35.1	2.341	3.274	7.3	22.3
4 1	10 28.31	+ 9 10.8	2.416	3.277	10.3	22.5

391003 2005 SJ_{115} 3 1.3 238°.75 1°.9/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.90	+ 9 59.7	1.724	2.508	16.5	22.0
2 1	11 16.61	+10 26.9	1.622	2.494	13.1	21.7
2 11	11 9.42	+11 6.5	1.541	2.478	9.0	21.4
2 21	10 59.79	+11 53.6	1.485	2.462	4.5	21.1
3 2	10 48.65	+12 41.2	1.457	2.445	2.2	20.9
3 12	10 37.32	+13 21.5	1.458	2.428	6.6	21.1
3 22	10 27.14	+13 48.6	1.485	2.409	11.3	21.4
4 1	10 19.22	+13 59.0	1.537	2.390	15.6	21.6

246813 2009 HD_{76} 3 1.3 231°.91 1°.4/29.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.04	+ 8 10.3	1.908	2.690	15.2	21.5
2 1	11 12.36	+ 8 46.4	1.810	2.681	12.0	21.3
2 11	11 6.22	+ 9 35.8	1.734	2.672	8.2	21.0
2 21	10 58.09	+10 34.0	1.684	2.662	4.0	20.7
3 2	10 48.79	+11 34.3	1.663	2.652	1.7	20.5
3 12	10 39.41	+12 29.6	1.670	2.641	5.7	20.8
3 22	10 31.04	+13 13.7	1.704	2.630	10.0	21.0
4 1	10 24.58	+13 42.6	1.763	2.619	13.8	21.2

251545 2009 BK_{97} 3 1.3 269°.08 0°.1/ 1.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.22	+ 5 3.9	1.709	2.488	16.8	21.7
2 1	11 12.91	+ 5 17.0	1.604	2.471	13.5	21.5
2 11	11 6.87	+ 5 46.0	1.520	2.454	9.5	21.2
2 21	10 58.53	+ 6 27.9	1.460	2.437	4.8	20.9
3 2	10 48.75	+ 7 17.5	1.428	2.419	0.3	20.5
3 12	10 38.76	+ 8 7.3	1.424	2.401	5.5	20.8
3 22	10 29.82	+ 8 50.5	1.446	2.383	10.4	21.1
4 1	10 22.99	+ 9 21.5	1.491	2.365	14.9	21.3

328705 2009 TG_{3} 3 1.3 209°.32 2°.4/27.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.20	+12 51.8	2.372	3.150	12.6	21.6
2 1	11 12.71	+13 29.0	2.274	3.144	9.9	21.4
2 11	11 6.13	+14 13.4	2.200	3.137	6.8	21.2
2 21	10 57.93	+15 0.5	2.154	3.130	3.6	21.0
3 2	10 48.81	+15 44.6	2.138	3.122	2.7	20.9
3 12	10 39.69	+16 20.4	2.152	3.113	5.6	21.1
3 22	10 31.41	+16 44.1	2.194	3.104	9.0	21.3
4 1	10 24.74	+16 53.6	2.262	3.094	12.0	21.5

455237 2001 SX_{179} 3 1.3 98°.03 0°.5/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.00	+ 3 30.4	2.057	2.820	14.8	21.3
2 1	11 11.00	+ 4 36.4	1.987	2.846	11.6	21.2
2 11	11 4.89	+ 5 58.4	1.941	2.872	7.9	21.0
2 21	10 57.26	+ 7 30.7	1.921	2.898	3.8	20.8
3 2	10 48.88	+ 9 6.3	1.932	2.922	0.7	20.6
3 12	10 40.70	+10 36.9	1.973	2.946	4.7	20.9
3 22	10 33.59	+11 56.0	2.042	2.970	8.5	21.2
4 1	10 28.19	+12 59.3	2.138	2.993	11.8	21.4

115240 2003 SC_{148} 3 1.3 105°.17 5°.2/25.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.67	+21 45.9	2.169	2.963	13.2	19.7
2 1	11 14.67	+22 31.8	2.101	2.976	10.4	19.5
2 11	11 7.41	+23 18.0	2.057	2.988	7.6	19.4
2 21	10 58.49	+23 58.0	2.040	3.001	5.5	19.3
3 2	10 48.79	+24 25.3	2.052	3.013	5.6	19.3
3 12	10 39.33	+24 35.6	2.092	3.025	7.8	19.5
3 22	10 31.06	+24 27.3	2.159	3.036	10.6	19.7
4 1	10 24.69	+24 1.2	2.249	3.048	13.2	19.8

42893 1999 RQ_{180} 3 1.3 295°.33 3°.0/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.37	+10 21.7	1.517	2.325	17.2	19.1
2 1	11 11.10	+11 12.2	1.417	2.303	13.7	18.9
2 11	11 5.88	+12 19.4	1.337	2.281	9.4	18.5
2 21	10 58.14	+13 36.9	1.281	2.259	4.8	18.2
3 2	10 48.79	+14 55.5	1.251	2.237	3.4	18.1
3 12	10 39.17	+16 4.4	1.248	2.215	7.8	18.3
3 22	10 30.68	+16 55.3	1.269	2.193	12.8	18.5
4 1	10 24.54	+17 23.1	1.312	2.171	17.4	18.7

169919 2002 SK_{14} 3 1.3 205°.78 0°.4/29.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.45	+ 6 38.1	2.409	3.177	12.8	21.3
2 1	11 9.68	+ 7 2.0	2.312	3.174	10.1	21.1
2 11	11 4.00	+ 7 36.6	2.238	3.171	6.9	20.9
2 21	10 56.86	+ 8 18.5	2.192	3.168	3.4	20.6
3 2	10 48.91	+ 9 3.4	2.174	3.165	0.6	20.4
3 12	10 40.95	+ 9 46.2	2.187	3.161	4.2	20.7
3 22	10 33.79	+10 22.6	2.228	3.157	7.8	20.9
4 1	10 28.08	+10 49.2	2.295	3.153	10.9	21.1

284380 2006 SJ_{337} 3 1.3 131°.35 0°.2/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 10.52	+ 3 8.9	2.591	3.348	12.3	20.9
2 1	11 7.19	+ 3 46.3	2.500	3.354	9.7	20.8
2 11	11 2.19	+ 4 36.4	2.432	3.360	6.7	20.6
2 21	10 55.92	+ 5 35.9	2.392	3.366	3.4	20.4
3 2	10 48.98	+ 6 40.6	2.381	3.372	0.3	20.1
3 12	10 42.09	+ 7 44.9	2.401	3.377	3.7	20.4
3 22	10 35.90	+ 8 44.1	2.449	3.383	6.9	20.6
4 1	10 31.02	+ 9 34.2	2.525	3.388	9.9	20.8

125926 2001 XM_{237} 3 1.3 292°.28 0°.1/ 1.3 18

1 22	11 16.15	+ 5 29.6	1.469	2.260	18.5	20.3
2 1	11 13.19	+ 5 37.9	1.378	2.252	14.8	20.0
2 11	11 7.21	+ 6 3.1	1.307	2.244	10.3	19.7
2 21	10 58.73	+ 6 41.8	1.259	2.236	5.2	19.4
3 2	10 48.76	+ 7 28.0	1.237	2.228	0.4	19.0
3 12	10 38.71	+ 8 13.5	1.242	2.221	6.0	19.4
3 22	10 29.96	+ 8 51.0	1.272	2.213	11.2	19.6
4 1	10 23.67	+ 9 15.0	1.325	2.206	15.9	19.9

402043 2003 ST_{274} 3 1.3 131°.11 0°.3/ 1.0 18

1 22	11 17.34	+ 5 2.9	1.978	2.744	15.2	22.4
2 1	11 13.02	+ 5 37.8	1.898	2.758	12.0	22.2
2 11	11 6.42	+ 6 27.1	1.840	2.772	8.2	22.0
2 21	10 58.07	+ 7 26.4	1.809	2.785	4.0	21.8
3 2	10 48.84	+ 8 29.6	1.807	2.798	0.5	21.5
3 12	10 39.74	+ 9 30.0	1.835	2.810	4.8	21.9
3 22	10 31.74	+10 21.5	1.890	2.821	8.8	22.1
4 1	10 25.60	+11 0.2	1.971	2.831	12.4	22.4

220317 2003 EC_{62} 3 1.3 187°.62 0°.5/ 1.7 17

1 22	11 18.23	+ 5 18.0	2.059	2.822	14.8	20.7
2 1	11 13.76	+ 5 15.6	1.964	2.821	11.9	20.5
2 11	11 6.99	+ 5 24.7	1.892	2.821	8.3	20.3
2 21	10 58.40	+ 5 42.8	1.846	2.820	4.2	20.1
3 2	10 48.81	+ 6 6.0	1.828	2.819	0.5	19.8
3 12	10 39.24	+ 6 29.6	1.840	2.818	4.5	20.1
3 22	10 30.68	+ 6 49.3	1.881	2.816	8.5	20.3
4 1	10 23.92	+ 7 1.5	1.947	2.814	12.2	20.5

324498 2006 UM_{279} 3 1.3 86°.45 0°.4/29.9 18

1 22	11 16.41	+ 5 33.3	1.773	2.550	16.3	21.7
2 1	11 12.49	+ 6 4.4	1.702	2.569	12.8	21.5
2 11	11 6.13	+ 6 50.2	1.653	2.588	8.8	21.3
2 21	10 57.95	+ 7 46.1	1.630	2.607	4.2	21.0
3 2	10 48.86	+ 8 45.5	1.634	2.625	0.7	20.8
3 12	10 40.00	+ 9 41.1	1.667	2.643	5.1	21.1
3 22	10 32.38	+10 27.0	1.728	2.661	9.3	21.4
4 1	10 26.78	+10 59.3	1.813	2.679	13.0	21.7

108684 2001 OX_{7} 3 1.3 168°.09 2°.8/ 4.3 17

1 22	11 14.07	− 2 55.7	2.542	3.264	13.3	19.8
2 1	11 10.04	− 3 8.4	2.442	3.266	11.0	19.6
2 11	11 4.20	− 3 7.2	2.364	3.268	8.2	19.4
2 21	10 56.96	− 2 52.9	2.313	3.270	5.2	19.2
3 2	10 48.94	− 2 27.3	2.290	3.271	2.9	19.1
3 12	10 40.92	− 1 54.1	2.297	3.272	4.0	19.1
3 22	10 33.64	− 1 17.5	2.333	3.273	6.8	19.3
4 1	10 27.74	− 0 41.9	2.395	3.274	9.8	19.5

157915 1999 TF_{306} 3 1.3 265°.18 1°.0/ 2.2 17

1 22	11 13.10	+ 2 9.0	2.105	2.865	14.6	20.9
2 1	11 9.84	+ 2 25.5	1.996	2.850	11.8	20.7
2 11	11 4.40	+ 2 57.5	1.909	2.836	8.4	20.4
2 21	10 57.19	+ 3 42.7	1.848	2.821	4.5	20.2
3 2	10 48.92	+ 4 37.1	1.815	2.806	1.0	19.9
3 12	10 40.51	+ 5 34.5	1.812	2.791	4.4	20.1
3 22	10 32.92	+ 6 29.0	1.836	2.775	8.5	20.3
4 1	10 26.97	+ 7 15.1	1.886	2.759	12.2	20.5

359641 2011 QU_{72} 3 1.3 137°.89 1°.5/ 2.5 18

1 22	11 20.88	+ 1 42.6	1.943	2.691	16.1	22.2
2 1	11 15.85	+ 1 43.6	1.860	2.705	12.9	22.0
2 11	11 8.40	+ 1 59.7	1.797	2.718	9.2	21.8
2 21	10 59.08	+ 2 28.8	1.761	2.731	5.0	21.5
3 2	10 48.79	+ 3 6.7	1.754	2.743	1.5	21.3
3 12	10 38.63	+ 3 47.9	1.776	2.754	4.5	21.5
3 22	10 29.65	+ 4 26.7	1.827	2.764	8.6	21.8
4 1	10 22.64	+ 4 58.4	1.903	2.774	12.3	22.0

210865 2001 RM_{84} 3 1.3 97°.88 1°.6/ 3.2 18

1 22	11 11.86	− 1 11.7	2.522	3.258	13.1	20.8
2 1	11 8.21	− 0 47.0	2.440	3.277	10.5	20.7
2 11	11 2.85	− 0 7.6	2.380	3.295	7.6	20.5
2 21	10 56.24	+ 0 44.1	2.347	3.313	4.3	20.3
3 2	10 49.00	+ 1 44.3	2.343	3.331	1.6	20.2
3 12	10 41.87	+ 2 47.9	2.370	3.349	3.5	20.3
3 22	10 35.53	+ 3 49.5	2.426	3.366	6.6	20.6
4 1	10 30.54	+ 4 44.8	2.509	3.383	9.5	20.8

95164 2002 AB_{179} 3 1.3 266°.17 1°.1/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 13.05	+ 7 13.1	1.942	2.726	14.9	19.7
2 1	11 9.88	+ 7 50.4	1.852	2.723	11.7	19.5
2 11	11 4.43	+ 8 41.3	1.783	2.721	8.0	19.3
2 21	10 57.18	+ 9 41.3	1.741	2.719	3.9	19.0
3 2	10 48.93	+10 44.0	1.726	2.716	1.3	18.8
3 12	10 40.69	+11 42.4	1.741	2.714	5.3	19.1
3 22	10 33.44	+12 30.5	1.783	2.712	9.4	19.3
4 1	10 27.97	+13 4.2	1.849	2.709	13.0	19.6

296165 2009 BW_{127} 3 1.3 253°.44 1°.2/28.9 17

1 22	11 10.56	+ 7 31.3	2.443	3.219	12.4	20.9
2 1	11 7.46	+ 8 20.8	2.342	3.210	9.7	20.7
2 11	11 2.54	+ 9 22.1	2.265	3.202	6.6	20.5
2 21	10 56.18	+10 31.0	2.216	3.193	3.2	20.3
3 2	10 49.01	+11 42.1	2.196	3.185	1.4	20.1
3 12	10 41.80	+12 49.2	2.206	3.176	4.7	20.3
3 22	10 35.30	+13 47.2	2.244	3.167	8.1	20.5
4 1	10 30.18	+14 32.1	2.308	3.157	11.2	20.7

362426 2010 QC_{4} 3 1.3 234°.34 0°.5/29.9 16

1 22	11 16.93	+ 6 13.2	1.957	2.729	15.2	22.5
2 1	11 13.05	+ 6 39.7	1.853	2.717	12.1	22.2
2 11	11 6.72	+ 7 20.3	1.771	2.705	8.4	22.0
2 21	10 58.38	+ 8 11.4	1.715	2.692	4.1	21.7
3 2	10 48.84	+ 9 7.2	1.687	2.678	0.8	21.4
3 12	10 39.17	+10 1.0	1.689	2.664	5.2	21.7
3 22	10 30.45	+10 46.5	1.718	2.649	9.6	21.9
4 1	10 23.60	+11 19.2	1.773	2.633	13.5	22.1

410042 2006 YN_{36} 3 1.3 93°.41 0°.0/ 1.3 18

1 22	11 19.08	+ 5 2.2	2.012	2.773	15.2	21.9
2 1	11 14.17	+ 5 25.1	1.945	2.802	11.9	21.7
2 11	11 7.05	+ 6 0.9	1.901	2.830	8.2	21.5
2 21	10 58.32	+ 6 45.5	1.883	2.858	4.0	21.3
3 2	10 48.87	+ 7 33.7	1.894	2.885	0.3	21.1
3 12	10 39.70	+ 8 19.4	1.935	2.911	4.5	21.4
3 22	10 31.71	+ 8 57.9	2.005	2.937	8.3	21.7
4 1	10 25.59	+ 9 25.6	2.101	2.962	11.6	22.0

190159 2005 TD_{173} 3 1.3 203°.33 0°.1/ 1.3 18

1 22	11 19.84	+ 5 20.5	1.818	2.586	16.3	21.0
2 1	11 15.48	+ 5 39.0	1.721	2.582	13.0	20.8
2 11	11 8.45	+ 6 12.3	1.645	2.577	9.1	20.5
2 21	10 59.26	+ 6 57.0	1.595	2.571	4.5	20.3
3 2	10 48.81	+ 7 47.6	1.574	2.565	0.4	19.9
3 12	10 38.29	+ 8 36.9	1.581	2.557	5.3	20.3
3 22	10 28.88	+ 9 18.7	1.616	2.549	9.9	20.5
4 1	10 21.57	+ 9 48.4	1.676	2.540	14.0	20.7

498583 2008 QT_{12} 3 1.3 163°.75 0°.2/ 1.5 17

1 22	11 17.68	+ 5 43.1	2.460	3.214	12.9	22.2
2 1	11 12.89	+ 5 47.3	2.366	3.218	10.3	22.1
2 11	11 6.15	+ 6 1.2	2.295	3.223	7.1	21.9
2 21	10 57.93	+ 6 22.3	2.252	3.227	3.6	21.6
3 2	10 48.92	+ 6 47.1	2.239	3.230	0.3	21.4
3 12	10 39.96	+ 7 11.5	2.257	3.233	3.9	21.7
3 22	10 31.86	+ 7 31.9	2.304	3.235	7.4	21.9
4 1	10 25.27	+ 7 45.3	2.377	3.237	10.5	22.1

190231 2006 UC_{143} 3 1.3 59°.47 3°.5/ 4.2 18

1 22	11 14.77	− 2 53.9	1.644	2.398	18.3	20.5
2 1	11 11.53	− 3 6.0	1.565	2.409	15.0	20.3
2 11	11 5.70	− 2 57.1	1.506	2.421	11.1	20.1
2 21	10 57.85	− 2 28.1	1.470	2.432	6.9	19.9
3 2	10 48.92	− 1 42.5	1.460	2.444	3.6	19.7
3 12	10 40.12	− 0 47.0	1.477	2.455	5.2	19.8
3 22	10 32.55	+ 0 10.9	1.520	2.467	9.2	20.1
4 1	10 27.09	+ 1 4.0	1.588	2.479	13.1	20.3

160092 2000 PL_{6} 3 1.3 97°.95 4°.6/ 4.8 18

1 22	11 28.11	− 4 48.4	1.954	2.657	17.4	19.2
2 1	11 21.32	− 5 36.5	1.882	2.690	14.4	19.0
2 11	11 11.99	− 6 7.2	1.832	2.722	10.9	18.9
2 21	11 0.79	− 6 19.9	1.807	2.753	7.3	18.7
3 2	10 48.72	− 6 15.5	1.810	2.784	4.8	18.6
3 12	10 36.97	− 5 57.8	1.845	2.813	5.6	18.7
3 22	10 26.61	− 5 32.0	1.908	2.842	8.6	19.0
4 1	10 18.43	− 5 3.8	1.998	2.869	11.8	19.2

16532 1991 LY 3 1.3 227°.26 4°.8/24.6 18

1 22	11 14.21	+17 40.5	2.224	3.022	12.8	18.1
2 1	11 10.67	+19 9.9	2.132	3.012	10.0	17.9
2 11	11 4.94	+20 46.7	2.065	3.002	7.2	17.7
2 21	10 57.46	+22 23.4	2.026	2.991	5.0	17.5
3 2	10 48.95	+23 51.4	2.017	2.980	5.5	17.5
3 12	10 40.37	+25 3.2	2.036	2.968	8.0	17.7
3 22	10 32.65	+25 54.0	2.082	2.956	11.1	17.8
4 1	10 26.60	+26 22.1	2.151	2.944	13.9	18.0

283418 2000 SV_{197} 3 1.3 153°.94 1°.6/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 10.47	− 1 14.0	2.700	3.435	12.3	21.1
2 1	11 7.12	− 0 50.5	2.603	3.439	10.0	20.9
2 11	11 2.14	− 0 12.8	2.528	3.443	7.2	20.7
2 21	10 55.94	+ 0 37.0	2.480	3.446	4.2	20.5
3 2	10 49.07	+ 1 35.6	2.462	3.449	1.6	20.4
3 12	10 42.22	+ 2 38.1	2.474	3.452	3.4	20.5
3 22	10 36.04	+ 3 39.8	2.515	3.455	6.4	20.7
4 1	10 31.10	+ 4 36.1	2.584	3.458	9.3	20.9

377364 2004 RN_{112} 3 1.3 218°.08 7°.0/ 8.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.65	−15 9.9	2.443	3.093	15.5	21.0
2 1	11 11.62	−15 56.0	2.332	3.085	13.6	20.9
2 11	11 5.51	−16 23.1	2.239	3.078	11.4	20.7
2 21	10 57.74	−16 28.6	2.169	3.069	9.1	20.5
3 2	10 48.93	−16 11.6	2.126	3.061	7.4	20.4
3 12	10 39.98	−15 33.9	2.109	3.051	7.2	20.4
3 22	10 31.74	−14 40.0	2.121	3.041	8.6	20.4
4 1	10 25.02	−13 36.3	2.158	3.031	10.9	20.6

289196 2004 WL_{12} 3 1.3 69°.54 3°.4/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.00	− 1 9.0	1.494	2.258	19.5	20.2
2 1	11 14.36	− 1 33.6	1.418	2.268	15.9	20.0
2 11	11 7.79	− 1 38.0	1.360	2.279	11.7	19.8
2 21	10 58.94	− 1 22.9	1.325	2.290	7.1	19.5
3 2	10 48.85	− 0 51.7	1.316	2.301	3.5	19.3
3 12	10 38.91	− 0 10.6	1.333	2.312	5.6	19.5
3 22	10 30.40	+ 0 32.9	1.377	2.323	10.0	19.8
4 1	10 24.29	+ 1 11.9	1.444	2.335	14.2	20.0

520114 2014 AQ_{58} 3 1.3 231°.64 1°.8/ 3.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.23	+ 0 13.0	2.499	3.239	13.1	21.0
2 1	11 9.46	+ 0 9.0	2.396	3.236	10.6	20.8
2 11	11 3.86	+ 0 17.5	2.316	3.232	7.7	20.6
2 21	10 56.84	+ 0 37.5	2.262	3.228	4.5	20.4
3 2	10 49.01	+ 1 6.2	2.237	3.224	1.9	20.2
3 12	10 41.15	+ 1 39.9	2.242	3.220	3.7	20.3
3 22	10 34.03	+ 2 14.2	2.275	3.216	7.0	20.5
4 1	10 28.29	+ 2 45.0	2.335	3.211	10.1	20.7

170726 2004 BN_{73} 3 1.3 290°.22 0°.9/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.21	+ 2 32.6	2.243	3.002	13.9	20.4
2 1	11 8.87	+ 2 46.3	2.147	3.001	11.1	20.2
2 11	11 3.56	+ 3 13.7	2.073	2.999	7.8	20.0
2 21	10 56.72	+ 3 52.4	2.025	2.998	4.2	19.8
3 2	10 49.02	+ 4 38.4	2.006	2.996	0.9	19.5
3 12	10 41.33	+ 5 26.4	2.016	2.995	4.0	19.8
3 22	10 34.46	+ 6 11.3	2.055	2.994	7.7	20.0
4 1	10 29.11	+ 6 48.7	2.119	2.992	11.1	20.2

290398 2005 TX_{27} 3 1.3 159°.16 6°.7/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.96	+25 36.1	2.119	2.914	13.4	20.5
2 1	11 15.95	+26 38.1	2.048	2.918	10.8	20.4
2 11	11 8.47	+27 38.5	2.000	2.922	8.3	20.2
2 21	10 59.13	+28 29.3	1.979	2.926	6.8	20.1
3 2	10 48.85	+29 3.1	1.986	2.929	7.2	20.2
3 12	10 38.78	+29 15.0	2.021	2.932	9.3	20.3
3 22	10 29.94	+29 3.9	2.081	2.935	11.9	20.5
4 1	10 23.14	+28 31.2	2.163	2.937	14.4	20.6

181853 1998 WT_{11} 3 1.3 48°.72 2°.9/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.01	− 2 38.0	1.408	2.178	20.2	20.1
2 1	11 11.14	− 2 27.4	1.348	2.203	16.3	19.9
2 11	11 5.47	− 1 51.6	1.307	2.229	11.8	19.7
2 21	10 57.71	− 0 53.8	1.288	2.255	7.0	19.5
3 2	10 48.97	+ 0 19.8	1.295	2.282	3.0	19.4
3 12	10 40.57	+ 1 39.6	1.329	2.309	5.2	19.6
3 22	10 33.66	+ 2 56.1	1.388	2.337	9.7	19.9
4 1	10 29.08	+ 4 1.3	1.471	2.364	13.8	20.2

30945 1994 GW_{9} 3 1.3 205°.32 3°.6/26.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.20	+17 42.0	2.522	3.311	11.7	18.7
2 1	11 11.01	+18 24.0	2.433	3.308	9.2	18.5
2 11	11 4.91	+19 9.4	2.370	3.305	6.4	18.4
2 21	10 57.34	+19 53.3	2.333	3.302	4.1	18.2
3 2	10 48.99	+20 30.2	2.327	3.299	4.0	18.2
3 12	10 40.70	+20 55.4	2.350	3.296	6.3	18.3
3 22	10 33.24	+21 6.4	2.400	3.292	9.1	18.5
4 1	10 27.29	+21 2.1	2.475	3.289	11.7	18.7

139797 2001 RL_{10} 3 1.3 68°.48 11°.7/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.78	−21 12.4	1.858	2.485	20.3	19.3
2 1	11 15.60	−23 3.6	1.777	2.496	18.4	19.2
2 11	11 8.64	−24 30.2	1.711	2.508	16.2	19.0
2 21	10 59.41	−25 26.1	1.665	2.519	14.0	18.9
3 2	10 48.83	−25 47.0	1.642	2.531	12.3	18.8
3 12	10 38.16	−25 33.1	1.641	2.543	11.8	18.8
3 22	10 28.66	−24 49.4	1.665	2.554	12.5	18.9
4 1	10 21.35	−23 44.7	1.711	2.566	14.2	19.0

166633 2002 SB_{32} 3 1.3 70°.16 0°.9/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 13.83	+ 6 23.9	2.142	2.915	14.0	20.8
2 1	11 9.97	+ 7 15.8	2.080	2.946	10.9	20.6
2 11	11 4.14	+ 8 19.6	2.041	2.977	7.3	20.5
2 21	10 56.91	+ 9 30.4	2.030	3.007	3.5	20.3
3 2	10 49.03	+10 41.8	2.047	3.037	1.2	20.1
3 12	10 41.40	+11 47.3	2.095	3.067	4.7	20.4
3 22	10 34.79	+12 41.9	2.171	3.096	8.2	20.7
4 1	10 29.80	+13 22.5	2.272	3.126	11.2	21.0

2126 Gerasimovich 3 1.3 109°.70 1°.4/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.49	+ 3 8.2	1.717	2.480	17.3	16.8
2 1	11 15.89	+ 2 58.2	1.637	2.493	13.9	16.5
2 11	11 8.62	+ 3 3.3	1.578	2.504	9.8	16.3
2 21	10 59.28	+ 3 21.0	1.544	2.516	5.3	16.1
3 2	10 48.86	+ 3 47.3	1.538	2.527	1.4	15.8
3 12	10 38.61	+ 4 16.6	1.560	2.538	4.9	16.1
3 22	10 29.67	+ 4 43.3	1.609	2.549	9.4	16.4
4 1	10 22.93	+ 5 2.8	1.683	2.560	13.3	16.6

62313 2000 SM_{119} 3 1.3 121°.95 5°.6/24.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.78	+22 28.3	2.181	2.974	13.1	19.2
2 1	11 14.81	+23 26.2	2.114	2.987	10.4	19.1
2 11	11 7.57	+24 24.3	2.072	3.001	7.7	18.9
2 21	10 58.65	+25 15.4	2.056	3.013	5.8	18.8
3 2	10 48.92	+25 52.9	2.070	3.025	6.0	18.9
3 12	10 39.43	+26 11.8	2.112	3.037	8.2	19.0
3 22	10 31.11	+26 10.7	2.180	3.049	10.9	19.2
4 1	10 24.70	+25 50.3	2.271	3.060	13.4	19.4

64813 2001 XQ_{225} 3 1.3 25°.25 1°.2/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.83	+ 8 30.2	2.013	2.801	14.3	19.6
2 1	11 8.75	+ 8 57.9	1.932	2.807	11.2	19.4
2 11	11 3.55	+ 9 36.5	1.874	2.813	7.6	19.2
2 21	10 56.73	+10 21.7	1.842	2.820	3.7	18.9
3 2	10 49.06	+11 8.0	1.838	2.827	1.4	18.8
3 12	10 41.50	+11 49.3	1.862	2.835	5.0	19.0
3 22	10 34.92	+12 21.1	1.914	2.843	8.8	19.3
4 1	10 30.04	+12 40.1	1.990	2.852	12.2	19.5

396182 2013 GW_{80} 3 1.3 325°.17 1°.3/ 3.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 6.90	− 0 20.2	2.826	3.570	11.6	20.5
2 1	11 4.34	+ 0 5.7	2.717	3.560	9.4	20.4
2 11	11 0.28	+ 0 45.0	2.632	3.551	6.8	20.2
2 21	10 55.06	+ 1 35.8	2.573	3.541	3.8	20.0
3 2	10 49.18	+ 2 34.9	2.544	3.532	1.3	19.8
3 12	10 43.27	+ 3 37.7	2.544	3.524	3.2	19.9
3 22	10 37.93	+ 4 39.5	2.574	3.515	6.2	20.1
4 1	10 33.69	+ 5 35.9	2.631	3.507	9.1	20.2

522430 2016 CA_{315} 3 1.3 226°.15 6°.3/22.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.12	+23 7.5	2.250	3.054	12.5	21.1
2 1	11 10.61	+24 41.4	2.169	3.047	10.0	20.9
2 11	11 4.90	+26 17.9	2.113	3.041	7.6	20.8
2 21	10 57.45	+27 48.8	2.085	3.034	6.3	20.7
3 2	10 49.01	+29 5.6	2.085	3.027	7.0	20.7
3 12	10 40.57	+30 1.8	2.113	3.020	9.2	20.8
3 22	10 33.05	+30 34.1	2.166	3.012	11.8	21.0
4 1	10 27.26	+30 42.4	2.240	3.005	14.2	21.1

83517 2001 SF_{133} 3 1.3 258°.20 2°.4/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.44	− 3 19.5	2.405	3.137	13.7	20.0
2 1	11 7.43	− 3 3.5	2.297	3.129	11.3	19.8
2 11	11 2.57	− 2 30.5	2.211	3.120	8.4	19.6
2 21	10 56.26	− 1 41.7	2.150	3.111	5.1	19.4
3 2	10 49.10	− 0 40.3	2.118	3.102	2.5	19.2
3 12	10 41.88	+ 0 28.7	2.115	3.093	3.9	19.2
3 22	10 35.35	+ 1 39.2	2.141	3.084	7.2	19.4
4 1	10 30.21	+ 2 45.5	2.194	3.075	10.4	19.6

219369 2000 SU_{21} 3 1.3 142°.09 3°.1/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.54	− 8 10.0	2.714	3.404	13.2	21.6
2 1	11 9.46	− 7 42.2	2.619	3.419	11.0	21.4
2 11	11 3.72	− 6 56.3	2.546	3.433	8.4	21.3
2 21	10 56.72	− 5 53.4	2.499	3.446	5.6	21.1
3 2	10 49.08	− 4 36.8	2.482	3.458	3.4	21.0
3 12	10 41.49	− 3 11.5	2.496	3.470	3.9	21.0
3 22	10 34.64	− 1 43.5	2.540	3.481	6.4	21.2
4 1	10 29.09	− 0 18.7	2.613	3.491	9.1	21.4

328493 2009 OJ_{17} 3 1.3 185°.57 5°.8/ 6.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.08	− 9 28.6	2.052	2.751	16.8	21.1
2 1	11 12.23	−10 7.7	1.953	2.751	14.3	20.9
2 11	11 6.08	−10 27.3	1.874	2.751	11.4	20.7
2 21	10 58.07	−10 25.5	1.817	2.750	8.4	20.5
3 2	10 48.97	−10 2.7	1.788	2.750	6.1	20.3
3 12	10 39.81	− 9 22.3	1.785	2.749	6.3	20.3
3 22	10 31.56	− 8 29.9	1.811	2.748	8.7	20.5
4 1	10 25.10	− 7 32.5	1.861	2.746	11.8	20.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
159941 2005 WV_{178}			3 1.3 31°.73	3°.1/ 3.7 18		
	h m	° ′			°	m
1 22	11 11.84	− 2 45.4	1.275	2.057	21.3	20.3
2 1	11 10.03	− 2 36.4	1.200	2.063	17.4	20.1
2 11	11 5.13	− 1 59.1	1.143	2.068	12.8	19.8
2 21	10 57.76	− 0 55.2	1.107	2.075	7.6	19.5
3 2	10 48.99	+ 0 29.0	1.094	2.082	3.2	19.3
3 12	10 40.33	+ 2 2.8	1.108	2.089	5.8	19.5
3 22	10 33.15	+ 3 34.1	1.145	2.097	10.9	19.8
4 1	10 28.52	+ 4 52.8	1.205	2.105	15.7	20.1
61313 2000 OF_{51}			3 1.3 164°.82	5°.4/ 7.1 18		
1 22	11 14.13	−11 25.5	2.336	3.017	15.4	19.6
2 1	11 10.36	−11 42.4	2.236	3.021	13.2	19.4
2 11	11 4.59	−11 39.2	2.157	3.025	10.6	19.2
2 21	10 57.26	−11 14.9	2.101	3.028	7.8	19.1
3 2	10 49.05	−10 30.8	2.072	3.031	5.7	18.9
3 12	10 40.81	− 9 30.6	2.071	3.033	5.7	18.9
3 22	10 33.40	− 8 20.1	2.099	3.035	7.7	19.1
4 1	10 27.51	− 7 6.3	2.153	3.036	10.5	19.2
392149 2009 HQ_{40}			3 1.3 245°.25	0°.1/ 1.2 17		
1 22	11 9.86	+ 3 49.8	2.686	3.445	11.8	21.5
2 1	11 6.76	+ 4 34.0	2.579	3.435	9.4	21.4
2 11	11 2.00	+ 5 31.0	2.495	3.425	6.5	21.2
2 21	10 55.94	+ 6 37.8	2.439	3.415	3.2	20.9
3 2	10 49.15	+ 7 49.7	2.413	3.404	0.3	20.6
3 12	10 42.29	+ 9 1.5	2.418	3.394	3.8	20.9
3 22	10 36.06	+10 7.7	2.452	3.383	7.1	21.1
4 1	10 31.05	+11 4.3	2.513	3.372	10.1	21.3
377837 2006 BL_{125}			3 1.3 163°.55	0°.2/ 1.2 17		
1 22	11 15.97	+ 6 27.3	2.110	2.879	14.3	21.2
2 1	11 11.95	+ 6 36.8	2.018	2.880	11.3	21.0
2 11	11 5.74	+ 6 57.5	1.949	2.882	7.8	20.8
2 21	10 57.84	+ 7 26.2	1.907	2.883	3.9	20.6
3 2	10 49.02	+ 7 58.5	1.893	2.884	0.4	20.3
3 12	10 40.23	+ 8 29.3	1.908	2.884	4.5	20.6
3 22	10 32.41	+ 8 54.3	1.951	2.885	8.4	20.8
4 1	10 26.30	+ 9 10.0	2.020	2.885	11.9	21.0
17795 Elysiasegal			3 1.3 48°.45	0°.1/ 1.3 18		
1 22	11 16.75	+ 5 32.8	1.316	2.115	19.8	17.8
2 1	11 13.61	+ 5 45.1	1.253	2.131	15.7	17.6
2 11	11 7.36	+ 6 15.2	1.209	2.148	10.8	17.4
2 21	10 58.74	+ 6 58.4	1.188	2.166	5.3	17.1
3 2	10 48.95	+ 7 47.2	1.193	2.184	0.4	16.8
3 12	10 39.50	+ 8 32.9	1.223	2.202	6.0	17.2
3 22	10 31.70	+ 9 8.6	1.279	2.221	11.1	17.6
4 1	10 26.49	+ 9 29.6	1.356	2.239	15.4	17.9
221782 2007 RQ_{137}			3 1.3 86°.36	0°.6/ 1.9 18		
1 22	11 18.49	+ 3 20.8	1.615	2.388	17.8	21.0
2 1	11 14.38	+ 3 36.4	1.546	2.408	14.2	20.8
2 11	11 7.58	+ 4 9.3	1.498	2.429	9.9	20.5
2 21	10 58.76	+ 4 55.5	1.474	2.449	5.0	20.3
3 2	10 48.96	+ 5 48.9	1.477	2.468	0.6	20.0
3 12	10 39.42	+ 6 41.9	1.509	2.488	5.1	20.4
3 22	10 31.27	+ 7 27.9	1.568	2.507	9.6	20.7
4 1	10 25.37	+ 8 2.1	1.650	2.525	13.6	21.0
129445 1981 EA_{24}			3 1.3 280°.52	1°.0/29.4 17		
1 22	11 15.48	+ 9 1.5	2.160	2.937	13.8	20.3
2 1	11 11.70	+ 9 15.9	2.051	2.919	10.9	20.1
2 11	11 5.70	+ 9 39.9	1.965	2.901	7.5	19.8
2 21	10 57.90	+10 10.2	1.906	2.883	3.7	19.5
3 2	10 49.01	+10 42.1	1.875	2.865	1.2	19.3
3 12	10 40.01	+11 10.3	1.874	2.847	5.0	19.6
3 22	10 31.83	+11 30.4	1.900	2.828	9.0	19.8
4 1	10 25.33	+11 39.4	1.952	2.810	12.6	19.9
11434 Lohnert			3 1.3 194°.89	0°.5/29.8 18		R
1 22	11 16.51	+ 7 27.7	2.753	3.509	11.6	18.9
2 1	11 11.84	+ 7 47.1	2.651	3.506	9.2	18.8
2 11	11 5.40	+ 8 15.2	2.573	3.503	6.3	18.6
2 21	10 57.60	+ 8 48.9	2.522	3.498	3.1	18.3
3 2	10 49.05	+ 9 24.6	2.503	3.493	0.7	18.1
3 12	10 40.48	+ 9 58.0	2.515	3.488	3.9	18.4
3 22	10 32.63	+10 25.6	2.556	3.481	7.1	18.6
4 1	10 26.10	+10 44.7	2.625	3.474	10.0	18.7
500445 2012 TE_{183}			3 1.3 146°.79	2°.1/28.1 17		
1 22	11 15.60	+13 3.5	2.526	3.305	12.0	22.0
2 1	11 11.24	+13 30.8	2.440	3.310	9.3	21.9
2 11	11 5.02	+14 3.8	2.378	3.315	6.3	21.7
2 21	10 57.41	+14 38.5	2.344	3.320	3.3	21.5
3 2	10 49.08	+15 10.1	2.340	3.324	2.4	21.4
3 12	10 40.84	+15 34.3	2.366	3.328	5.0	21.6
3 22	10 33.43	+15 48.3	2.420	3.332	8.1	21.8
4 1	10 27.50	+15 50.4	2.500	3.336	10.9	22.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
285229 1997 SP_{12}			3 1.3 111°.43	1°.1/ 2.3 18		
	h m	° ′			°	m
1 22	11 16.72	+ 0 51.4	1.667	2.432	17.7	21.1
2 1	11 13.01	+ 1 20.1	1.591	2.447	14.2	20.9
2 11	11 6.70	+ 2 9.0	1.535	2.462	10.0	20.6
2 21	10 58.38	+ 3 14.5	1.503	2.476	5.3	20.4
3 2	10 49.01	+ 4 30.1	1.499	2.490	1.1	20.1
3 12	10 39.81	+ 5 47.2	1.524	2.503	4.9	20.4
3 22	10 31.88	+ 6 57.7	1.575	2.516	9.5	20.7
4 1	10 26.08	+ 7 55.3	1.651	2.528	13.5	21.0
414209 2008 EY_{15}			3 1.3 136°.29	1°.4/ 2.8 18		
1 22	11 13.33	− 0 54.0	2.027	2.776	15.4	21.3
2 1	11 9.95	− 0 17.3	1.938	2.785	12.5	21.1
2 11	11 4.41	+ 0 38.7	1.872	2.792	8.9	20.9
2 21	10 57.21	+ 1 50.8	1.830	2.800	4.9	20.7
3 2	10 49.10	+ 3 13.7	1.818	2.807	1.4	20.4
3 12	10 41.05	+ 4 39.9	1.835	2.814	4.2	20.6
3 22	10 33.95	+ 6 1.7	1.880	2.820	8.2	20.9
4 1	10 28.56	+ 7 13.1	1.952	2.826	11.8	21.1
38945 2000 SO_{274}			3 1.3 201°.58	1°.9/28.6 18		
1 22	11 18.49	+ 9 48.9	2.032	2.810	14.5	20.0
2 1	11 14.14	+10 29.4	1.937	2.805	11.4	19.8
2 11	11 7.40	+11 21.3	1.864	2.801	7.8	19.5
2 21	10 58.74	+12 19.4	1.818	2.795	3.9	19.3
3 2	10 48.99	+13 17.3	1.801	2.789	2.2	19.2
3 12	10 39.21	+14 8.2	1.814	2.781	5.8	19.4
3 22	10 30.43	+14 46.6	1.855	2.774	9.8	19.6
4 1	10 23.51	+15 9.7	1.920	2.765	13.3	19.8
14298 2144 $T\text{-}_{2}$			3 1.3 255°.89	0°.8/29.7 18		
1 22	11 16.64	+ 7 37.0	1.911	2.690	15.3	19.0
2 1	11 12.90	+ 7 55.0	1.810	2.678	12.1	18.8
2 11	11 6.68	+ 8 25.3	1.730	2.666	8.4	18.5
2 21	10 58.45	+ 9 4.2	1.676	2.653	4.1	18.2
3 2	10 49.01	+ 9 46.4	1.650	2.641	1.0	18.0
3 12	10 39.47	+10 25.5	1.653	2.628	5.3	18.2
3 22	10 30.92	+10 56.0	1.683	2.615	9.7	18.5
4 1	10 24.28	+11 14.1	1.738	2.601	13.6	18.7
205300 2000 SW_{267}			3 1.4 46°.33	2°.6/ 3.4 18		
1 22	11 13.56	− 1 26.1	1.322	2.103	20.7	20.0
2 1	11 11.15	− 1 19.5	1.254	2.117	16.8	19.8
2 11	11 5.75	− 0 47.5	1.205	2.131	12.1	19.6
2 21	10 58.01	+ 0 7.3	1.177	2.146	7.0	19.3
3 2	10 49.06	+ 1 18.6	1.174	2.162	2.7	19.1
3 12	10 40.33	+ 2 36.6	1.197	2.178	5.5	19.3
3 22	10 33.12	+ 3 51.0	1.244	2.194	10.5	19.6
4 1	10 28.40	+ 4 53.5	1.315	2.211	14.9	19.9
505586 2014 BT_{62}			3 1.4 292°.99	0°.1/ 1.3 17		
1 22	11 14.74	+ 6 46.0	2.327	3.094	13.2	21.5
2 1	11 10.86	+ 6 47.2	2.224	3.085	10.5	21.2
2 11	11 4.96	+ 6 57.9	2.144	3.076	7.3	21.0
2 21	10 57.49	+ 7 15.5	2.091	3.066	3.6	20.8
3 2	10 49.11	+ 7 36.6	2.066	3.057	0.3	20.5
3 12	10 40.69	+ 7 56.8	2.071	3.048	4.2	20.8
3 22	10 33.07	+ 8 12.5	2.105	3.039	7.9	21.0
4 1	10 26.98	+ 8 20.6	2.164	3.030	11.2	21.2
90159 2002 YZ_{30}			3 1.4 166°.73	3°.8/25.8 18		
1 22	11 16.20	+15 55.5	2.432	3.218	12.2	19.7
2 1	11 11.89	+17 11.2	2.350	3.224	9.5	19.5
2 11	11 5.58	+18 33.2	2.293	3.229	6.6	19.3
2 21	10 57.75	+19 55.0	2.265	3.234	4.2	19.2
3 2	10 49.09	+21 9.7	2.267	3.238	4.2	19.2
3 12	10 40.49	+22 11.1	2.299	3.241	6.7	19.4
3 22	10 32.76	+22 55.4	2.359	3.243	9.5	19.5
4 1	10 26.58	+23 21.0	2.444	3.245	12.2	19.7
401990 2002 XR_{51}			3 1.4 85°.88	1°.3/29.2 18		
1 22	11 17.99	+ 7 53.9	1.816	2.596	15.9	21.3
2 1	11 13.64	+ 8 34.7	1.752	2.622	12.4	21.2
2 11	11 6.90	+ 9 28.1	1.710	2.647	8.4	21.0
2 21	10 58.39	+10 28.3	1.695	2.672	4.0	20.7
3 2	10 49.07	+11 28.4	1.708	2.697	1.6	20.6
3 12	10 40.04	+12 21.3	1.749	2.721	5.5	20.9
3 22	10 32.28	+13 1.9	1.819	2.745	9.4	21.2
4 1	10 26.54	+13 27.4	1.913	2.768	12.9	21.5
503574 2016 GN_{29}			3 1.4 181°.35	0°.6/29.9 17		
1 22	11 15.03	+ 6 27.5	1.949	2.726	15.1	22.0
2 1	11 11.44	+ 6 52.9	1.859	2.726	11.9	21.7
2 11	11 5.54	+ 7 31.6	1.791	2.726	8.2	21.5
2 21	10 57.82	+ 8 19.5	1.749	2.726	4.0	21.3
3 2	10 49.10	+ 9 11.2	1.735	2.726	0.8	21.0
3 12	10 40.40	+10 0.0	1.750	2.725	5.0	21.3
3 22	10 32.72	+10 40.5	1.793	2.725	9.1	21.6
4 1	10 26.86	+11 8.6	1.860	2.724	12.8	21.8

386572 2009 DW_{129} 3 1.4 275.°84 0.°0/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 12.45	+ 5 32.7	2.475	3.239	12.6	21.7
2 1	11 8.99	+ 5 49.1	2.365	3.224	10.0	21.5
2 11	11 3.66	+ 6 16.4	2.278	3.209	7.0	21.2
2 21	10 56.85	+ 6 52.0	2.218	3.194	3.5	21.0
3 2	10 49.17	+ 7 32.1	2.188	3.179	0.2	20.7
3 12	10 41.40	+ 8 11.9	2.187	3.163	4.0	21.0
3 22	10 34.32	+ 8 47.1	2.215	3.148	7.6	21.2
4 1	10 28.63	+ 9 14.0	2.269	3.133	10.8	21.3

411262 2010 RD_{125} 3 1.4 151.°96 0.°4/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.47	+ 5 23.3	2.117	2.882	14.4	23.0
2 1	11 12.30	+ 5 59.2	2.030	2.890	11.4	22.8
2 11	11 5.97	+ 6 48.6	1.967	2.898	7.8	22.6
2 21	10 57.98	+ 7 47.5	1.929	2.906	3.8	22.4
3 2	10 49.09	+ 8 50.1	1.922	2.912	0.6	22.2
3 12	10 40.29	+ 9 49.9	1.944	2.918	4.6	22.5
3 22	10 32.45	+10 41.5	1.994	2.924	8.5	22.7
4 1	10 26.34	+11 20.7	2.071	2.929	11.9	22.9

359980 2012 UZ_{32} 3 1.4 325.°30 1.°0/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.23	+ 7 29.9	2.210	2.990	13.4	21.1
2 1	11 8.19	+ 8 6.6	2.117	2.987	10.5	20.9
2 11	11 3.17	+ 8 55.0	2.047	2.984	7.2	20.7
2 21	10 56.61	+ 9 51.2	2.003	2.981	3.5	20.4
3 2	10 49.19	+10 49.6	1.988	2.978	1.2	20.2
3 12	10 41.78	+11 44.1	2.003	2.976	4.8	20.5
3 22	10 35.20	+12 29.7	2.045	2.973	8.4	20.7
4 1	10 30.15	+13 2.7	2.113	2.971	11.7	20.9

114163 2002 VR_{71} 3 1.4 210.°63 1.°0/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.13	+ 1 15.2	1.507	2.284	18.7	20.5
2 1	11 12.30	+ 1 41.8	1.418	2.282	15.1	20.3
2 11	11 6.58	+ 2 30.9	1.349	2.280	10.7	20.0
2 21	10 58.51	+ 3 39.6	1.304	2.278	5.7	19.7
3 2	10 49.06	+ 5 0.9	1.285	2.275	1.0	19.4
3 12	10 39.56	+ 6 25.2	1.292	2.272	5.5	19.7
3 22	10 31.32	+ 7 42.6	1.326	2.269	10.7	20.0
4 1	10 25.41	+ 8 45.6	1.384	2.266	15.2	20.2

463828 2014 TD_{55} 3 1.4 90.°59 1.°4/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.86	+ 6 30.5	1.735	2.522	16.2	21.3
2 1	11 10.73	+ 7 27.0	1.659	2.533	12.7	21.1
2 11	11 5.13	+ 8 39.8	1.605	2.544	8.6	20.8
2 21	10 57.63	+10 2.8	1.576	2.554	4.1	20.6
3 2	10 49.14	+11 27.9	1.575	2.565	1.7	20.4
3 12	10 40.77	+12 46.0	1.603	2.575	5.8	20.7
3 22	10 33.58	+13 50.2	1.658	2.586	10.1	21.0
4 1	10 28.38	+14 36.1	1.736	2.596	13.8	21.3

103206 1999 XN_{252} 3 1.4 256.°31 1.°7/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.56	+ 8 37.3	1.825	2.611	15.6	20.6
2 1	11 12.24	+ 9 17.6	1.723	2.597	12.3	20.4
2 11	11 6.35	+10 12.1	1.644	2.583	8.5	20.1
2 21	10 58.36	+11 15.9	1.590	2.568	4.2	19.8
3 2	10 49.08	+12 21.9	1.565	2.553	2.0	19.6
3 12	10 39.65	+13 22.1	1.567	2.538	6.1	19.9
3 22	10 31.23	+14 9.6	1.597	2.522	10.6	20.1
4 1	10 24.79	+14 40.4	1.650	2.506	14.6	20.3

252981 2002 QA_{35} 3 1.4 173.°41 1.°3/29.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.36	+ 8 21.7	2.174	2.945	13.9	22.5
2 1	11 13.00	+ 8 57.6	2.083	2.948	10.9	22.3
2 11	11 6.46	+ 9 44.6	2.016	2.951	7.4	22.1
2 21	10 58.24	+10 38.2	1.976	2.953	3.6	21.9
3 2	10 49.10	+11 32.8	1.965	2.954	1.5	21.7
3 12	10 40.00	+12 22.3	1.985	2.955	5.0	22.0
3 22	10 31.85	+13 1.7	2.032	2.955	8.8	22.2
4 1	10 25.40	+13 28.1	2.106	2.955	12.1	22.4

203502 2002 AW_{122} 3 1.4 46.°62 3.°5/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.39	+10 32.1	1.187	2.009	20.2	19.1
2 1	11 12.83	+11 34.9	1.135	2.029	15.7	18.9
2 11	11 6.97	+12 53.4	1.103	2.050	10.5	18.6
2 21	10 58.61	+14 17.9	1.093	2.072	5.4	18.4
3 2	10 49.09	+15 36.2	1.109	2.094	4.0	18.4
3 12	10 40.02	+16 37.4	1.150	2.117	8.3	18.7
3 22	10 32.78	+17 15.3	1.214	2.140	13.1	19.0
4 1	10 28.29	+17 28.2	1.298	2.164	17.2	19.3

409998 2006 WT_{13} 3 1.4 77.°07 6.°6/ 7.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.33	−12 39.2	1.806	2.501	18.9	20.9
2 1	11 11.75	−13 3.1	1.733	2.524	16.2	20.8
2 11	11 5.75	−13 0.9	1.677	2.546	13.0	20.6
2 21	10 57.91	−12 31.5	1.643	2.569	9.7	20.5
3 2	10 49.14	−11 36.6	1.633	2.591	7.1	20.4
3 12	10 40.54	−10 22.1	1.651	2.614	6.8	20.4
3 22	10 33.14	− 8 56.2	1.696	2.636	9.0	20.6
4 1	10 27.71	− 7 28.2	1.766	2.657	12.0	20.8

299051 2005 CB_{3} 3 1.4 68.°49 0.°3/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 18.94	+ 4 29.5	1.457	2.241	18.9	20.9
2 1	11 14.99	+ 4 43.2	1.395	2.264	15.0	20.7
2 11	11 8.14	+ 5 14.3	1.352	2.287	10.4	20.5
2 21	10 59.12	+ 5 58.4	1.333	2.309	5.2	20.3
3 2	10 49.07	+ 6 48.5	1.341	2.332	0.4	20.0
3 12	10 39.38	+ 7 36.8	1.376	2.355	5.5	20.4
3 22	10 31.25	+ 8 16.5	1.438	2.378	10.3	20.7
4 1	10 25.56	+ 8 43.1	1.522	2.400	14.3	21.0

308193 2005 CB_{79} 3 1.4 322.°17 0.°5/22.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	10 52.94	+28 27.3	38.001	38.789	0.9	20.5
2 1	10 52.24	+28 35.1	37.922	38.786	0.7	20.5
2 11	10 51.44	+28 42.6	37.871	38.783	0.6	20.4
2 21	10 50.57	+28 49.4	37.849	38.780	0.5	20.4
3 2	10 49.66	+28 55.4	37.855	38.778	0.5	20.4
3 12	10 48.76	+29 0.3	37.890	38.775	0.7	20.5
3 22	10 47.89	+29 4.1	37.952	38.772	0.8	20.5
4 1	10 47.09	+29 6.5	38.038	38.769	1.0	20.5

209385 2004 ED_{47} 3 1.4 176.°44 1.°7/28.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.47	+11 50.2	2.666	3.439	11.5	21.1
2 1	11 11.08	+12 12.8	2.573	3.440	9.0	20.9
2 11	11 4.91	+12 41.5	2.506	3.441	6.1	20.8
2 21	10 57.40	+13 12.7	2.466	3.442	3.1	20.6
3 2	10 49.19	+13 42.2	2.456	3.442	1.9	20.5
3 12	10 41.02	+14 5.8	2.476	3.442	4.6	20.7
3 22	10 33.61	+14 20.7	2.526	3.442	7.6	20.8
4 1	10 27.59	+14 25.1	2.602	3.442	10.4	21.0

142693 2002 TZ_{242} 3 1.4 51.°53 4.°8/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.46	− 7 24.3	1.634	2.372	19.0	19.9
2 1	11 9.86	− 7 32.5	1.551	2.380	16.0	19.7
2 11	11 4.68	− 7 15.2	1.487	2.388	12.3	19.5
2 21	10 57.49	− 6 32.3	1.445	2.396	8.3	19.3
3 2	10 49.17	− 5 26.9	1.428	2.405	5.2	19.1
3 12	10 40.92	− 4 6.3	1.438	2.414	5.8	19.2
3 22	10 33.85	− 2 39.6	1.475	2.423	9.3	19.4
4 1	10 28.85	− 1 16.2	1.535	2.432	13.1	19.6

55979 1998 RP_{54} 3 1.4 117.°16 2.°4/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.78	− 1 15.1	1.659	2.412	18.2	19.8
2 1	11 14.68	− 1 8.3	1.582	2.427	14.8	19.5
2 11	11 7.89	− 0 40.8	1.524	2.443	10.7	19.3
2 21	10 59.03	+ 0 5.2	1.490	2.457	6.2	19.1
3 2	10 49.08	+ 1 4.9	1.484	2.471	2.5	18.9
3 12	10 39.30	+ 2 10.7	1.505	2.485	5.0	19.1
3 22	10 30.83	+ 3 14.6	1.554	2.498	9.3	19.4
4 1	10 24.56	+ 4 9.8	1.628	2.510	13.3	19.6

291331 2006 BX_{203} 3 1.4 339.°02 1.°9/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.38	+ 1 24.2	1.317	2.109	20.2	21.1
2 1	11 11.34	+ 1 20.0	1.232	2.103	16.4	20.8
2 11	11 6.19	+ 1 37.6	1.165	2.098	11.8	20.6
2 21	10 58.43	+ 2 15.5	1.120	2.093	6.6	20.2
3 2	10 49.12	+ 3 8.3	1.099	2.089	2.0	19.9
3 12	10 39.74	+ 4 7.4	1.104	2.085	5.8	20.2
3 22	10 31.77	+ 5 3.5	1.133	2.082	11.3	20.5
4 1	10 26.36	+ 5 48.5	1.184	2.080	16.2	20.7

286083 2001 TB_{17} 3 1.4 89.°17 2.°6/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.74	+12 48.8	1.884	2.671	15.1	21.2
2 1	11 14.99	+13 20.6	1.817	2.691	11.8	21.1
2 11	11 7.83	+14 0.1	1.773	2.711	8.0	20.9
2 21	10 58.89	+14 41.3	1.755	2.731	4.1	20.7
3 2	10 49.10	+15 17.9	1.766	2.750	2.9	20.6
3 12	10 39.61	+15 44.3	1.805	2.769	6.2	20.9
3 22	10 31.40	+15 57.0	1.872	2.788	9.8	21.1
4 1	10 25.21	+15 54.8	1.963	2.807	13.1	21.4

378732 2008 QA_{46} 3 1.4 199.°33 2.°7/ 4.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.12	− 4 30.8	2.529	3.246	13.5	22.2
2 1	11 9.44	− 4 19.5	2.423	3.243	11.2	22.0
2 11	11 3.92	− 3 51.6	2.338	3.239	8.4	21.8
2 21	10 56.99	− 3 8.1	2.278	3.235	5.3	21.6
3 2	10 49.23	− 2 11.7	2.248	3.230	2.9	21.4
3 12	10 41.42	− 1 7.2	2.248	3.224	3.9	21.5
3 22	10 34.31	− 0 0.0	2.277	3.218	6.9	21.6
4 1	10 28.57	+ 1 4.3	2.333	3.212	10.0	21.8

458990 2011 WR_{112} 3 1.4 95.°17 6.°4/ 6.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.36	−10 13.7	1.740	2.445	19.1	21.7
2 1	11 14.27	−10 50.9	1.663	2.464	16.3	21.5
2 11	11 7.58	−11 4.0	1.604	2.483	12.9	21.4
2 21	10 58.87	−10 51.4	1.568	2.502	9.4	21.2
3 2	10 49.11	−10 14.3	1.557	2.520	6.8	21.1
3 12	10 39.49	− 9 17.8	1.573	2.538	6.8	21.1
3 22	10 31.13	− 8 9.7	1.616	2.555	9.4	21.3
4 1	10 24.90	− 6 58.7	1.684	2.572	12.6	21.5

143498 2003 DJ_{12} 3 1.4 244°.54 0°.9/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 11.94	+ 8 4.6	2.609	3.379	11.8	20.6
2 1	11 8.46	+ 8 36.4	2.506	3.371	9.3	20.5
2 11	11 3.22	+ 9 17.7	2.428	3.362	6.3	20.2
2 21	10 56.63	+10 5.1	2.377	3.354	3.1	20.0
3 2	10 49.26	+10 54.3	2.355	3.345	1.1	19.8
3 12	10 41.86	+11 40.2	2.364	3.336	4.2	20.1
3 22	10 35.14	+12 18.8	2.402	3.326	7.5	20.3
4 1	10 29.72	+12 47.0	2.465	3.317	10.5	20.4

430945 2005 UZ_{243} 3 1.4 165°.61 2°.8/27.6 16

1 22	11 17.44	+13 46.3	2.235	3.018	13.2	22.3
2 1	11 13.01	+14 26.9	2.149	3.022	10.3	22.1
2 11	11 6.43	+15 14.3	2.088	3.026	7.0	21.9
2 21	10 58.23	+16 3.2	2.054	3.029	3.8	21.7
3 2	10 49.16	+16 47.7	2.050	3.031	3.1	21.7
3 12	10 40.16	+17 22.1	2.075	3.034	6.0	21.9
3 22	10 32.14	+17 43.1	2.128	3.035	9.3	22.1
4 1	10 25.82	+17 48.9	2.205	3.037	12.3	22.3

244694 2003 QQ_5 3 1.4 231°.57 0°.6/ 1.9 17

1 22	11 15.77	+ 1 15.2	2.207	2.955	14.4	21.9
2 1	11 11.96	+ 1 57.8	2.091	2.939	11.6	21.7
2 11	11 5.94	+ 2 58.4	1.998	2.922	8.2	21.4
2 21	10 58.11	+ 4 14.3	1.931	2.904	4.3	21.1
3 2	10 49.16	+ 5 40.3	1.894	2.885	0.6	20.8
3 12	10 40.01	+ 7 9.1	1.888	2.865	4.4	21.1
3 22	10 31.61	+ 8 33.3	1.911	2.845	8.6	21.3
4 1	10 24.82	+ 9 46.4	1.961	2.823	12.3	21.5

77825 2001 QF_{189} 3 1.4 39°.64 4°.6/26.2 18

1 22	11 15.72	+18 36.1	1.966	2.769	14.0	18.7
2 1	11 11.93	+19 21.7	1.895	2.777	11.0	18.5
2 11	11 5.81	+20 10.6	1.848	2.785	7.7	18.3
2 21	10 57.93	+20 56.3	1.826	2.794	5.1	18.2
3 2	10 49.19	+21 31.8	1.832	2.803	5.0	18.2
3 12	10 40.64	+21 51.7	1.866	2.813	7.6	18.3
3 22	10 33.25	+21 53.5	1.926	2.822	10.7	18.6
4 1	10 27.76	+21 37.2	2.010	2.832	13.7	18.8

422171 2014 RZ_{18} 3 1.4 165°.03 0°.8/29.6 18

1 22	11 17.75	+ 6 58.1	2.132	2.899	14.2	22.6
2 1	11 13.34	+ 7 31.0	2.043	2.905	11.2	22.4
2 11	11 6.73	+ 8 15.9	1.977	2.910	7.7	22.1
2 21	10 58.41	+ 9 8.8	1.937	2.914	3.7	21.9
3 2	10 49.17	+10 4.1	1.927	2.918	1.0	21.7
3 12	10 39.98	+10 55.6	1.948	2.921	4.8	22.0
3 22	10 31.76	+11 38.0	1.996	2.923	8.7	22.2
4 1	10 25.29	+12 8.1	2.071	2.925	12.1	22.4

56743 2000 ND_{26} 3 1.4 190°.91 5°.0/ 5.7 17

1 22	11 16.49	− 7 14.8	2.098	2.807	16.2	19.3
2 1	11 12.53	− 7 49.1	1.998	2.806	13.7	19.1
2 11	11 6.30	− 8 5.4	1.918	2.805	10.7	18.9
2 21	10 58.26	− 8 2.5	1.863	2.804	7.6	18.7
3 2	10 49.17	− 7 41.3	1.834	2.803	5.2	18.6
3 12	10 40.01	− 7 5.3	1.833	2.801	5.6	18.6
3 22	10 31.75	− 6 19.7	1.860	2.800	8.4	18.8
4 1	10 25.23	− 5 31.0	1.913	2.797	11.6	19.0

371116 2005 VZ_{99} 3 1.4 156°.58 0°.3/ 1.6 16

1 22	11 15.83	+ 4 20.1	2.129	2.891	14.4	22.4
2 1	11 11.84	+ 4 38.9	2.038	2.895	11.5	22.2
2 11	11 5.70	+ 5 11.0	1.971	2.900	8.0	21.9
2 21	10 57.91	+ 5 53.3	1.929	2.904	4.0	21.7
3 2	10 49.21	+ 6 41.0	1.916	2.907	0.3	21.4
3 12	10 40.55	+ 7 28.4	1.933	2.911	4.3	21.7
3 22	10 32.84	+ 8 10.4	1.979	2.914	8.2	22.0
4 1	10 26.81	+ 8 42.8	2.050	2.916	11.7	22.2

363780 2005 GE_{67} 3 1.4 19°.62 1°.1/ 2.2 18

1 22	11 12.12	+ 2 20.0	1.309	2.107	20.0	20.9
2 1	11 10.18	+ 2 29.7	1.236	2.112	16.1	20.7
2 11	11 5.23	+ 3 1.3	1.181	2.117	11.3	20.4
2 21	10 57.88	+ 3 51.5	1.148	2.124	6.0	20.1
3 2	10 49.21	+ 4 53.5	1.140	2.131	1.1	19.8
3 12	10 40.67	+ 5 57.7	1.158	2.139	5.7	20.1
3 22	10 33.59	+ 6 55.0	1.200	2.148	11.0	20.4
4 1	10 29.00	+ 7 38.5	1.264	2.157	15.5	20.7

333240 2012 HU_{63} 3 1.4 196°.44 1°.9/28.3 17

1 22	11 15.42	+10 41.2	2.411	3.187	12.5	22.0
2 1	11 11.33	+11 24.0	2.316	3.184	9.8	21.8
2 11	11 5.27	+12 15.7	2.245	3.181	6.7	21.6
2 21	10 57.68	+13 12.0	2.201	3.177	3.4	21.4
3 2	10 49.23	+14 7.1	2.187	3.173	2.2	21.3
3 12	10 40.79	+14 55.6	2.203	3.168	5.1	21.4
3 22	10 33.15	+15 33.1	2.248	3.163	8.5	21.6
4 1	10 27.02	+15 57.0	2.319	3.157	11.5	21.8

285602 2000 QG_{163} 3 1.4 111°.31 3°.4/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 18.73	− 5 31.3	1.954	2.673	16.9	21.3
2 1	11 14.14	− 5 22.7	1.878	2.698	13.9	21.1
2 11	11 7.26	− 4 53.1	1.822	2.723	10.4	20.9
2 21	10 58.64	− 4 3.8	1.791	2.746	6.6	20.8
3 2	10 49.18	− 2 58.9	1.788	2.769	3.6	20.6
3 12	10 39.91	− 1 44.9	1.814	2.791	4.7	20.7
3 22	10 31.79	− 0 29.4	1.869	2.812	8.1	21.0
4 1	10 25.58	+ 0 40.8	1.951	2.832	11.5	21.2

408163 2013 CJ_{163} 3 1.4 229°.94 3°.6/27.5 18

1 22	11 19.65	+14 0.7	1.796	2.589	15.5	21.2
2 1	11 15.52	+14 44.8	1.703	2.580	12.3	20.9
2 11	11 8.64	+15 38.3	1.631	2.570	8.5	20.7
2 21	10 59.53	+16 34.5	1.585	2.560	4.7	20.4
3 2	10 49.11	+17 25.4	1.568	2.549	4.0	20.4
3 12	10 38.64	+18 3.6	1.579	2.538	7.4	20.6
3 22	10 29.32	+18 24.1	1.616	2.526	11.5	20.8
4 1	10 22.17	+18 25.0	1.676	2.514	15.2	21.0

338417 2003 BY_{59} 3 1.4 350°.00 5°.1/24.8 18

1 22	11 6.29	+14 38.2	1.685	2.508	15.1	19.6
2 1	11 5.10	+16 19.0	1.603	2.499	11.8	19.3
2 11	11 1.51	+18 12.4	1.545	2.492	8.2	19.1
2 21	10 55.99	+20 9.3	1.513	2.485	5.4	18.9
3 2	10 49.35	+21 58.3	1.508	2.479	5.9	18.9
3 12	10 42.70	+23 29.0	1.530	2.475	9.1	19.1
3 22	10 37.09	+24 34.5	1.576	2.471	12.7	19.3
4 1	10 33.41	+25 11.9	1.643	2.469	16.1	19.5

499118 2009 HY_{97} 3 1.4 44°.10 2°.1/ 3.7 17

1 22	11 9.90	− 2 19.5	2.208	2.952	14.5	21.1
2 1	11 7.10	− 1 59.1	2.120	2.960	11.8	20.9
2 11	11 2.40	− 1 21.2	2.053	2.968	8.6	20.7
2 21	10 56.26	− 0 27.7	2.012	2.977	5.1	20.5
3 2	10 49.34	+ 0 37.1	1.998	2.985	2.2	20.3
3 12	10 42.47	+ 1 47.5	2.014	2.994	3.9	20.5
3 22	10 36.44	+ 2 57.1	2.058	3.003	7.3	20.7
4 1	10 31.89	+ 4 0.1	2.128	3.012	10.6	20.9

4014 Heizman 3 1.4 140°.69 0°.4/ 1.9 18

1 22	11 11.09	+ 3 51.6	2.747	3.502	11.7	17.9
2 1	11 7.63	+ 4 9.3	2.651	3.504	9.3	17.8
2 11	11 2.56	+ 4 37.6	2.579	3.505	6.5	17.6
2 21	10 56.28	+ 5 14.1	2.534	3.507	3.3	17.4
3 2	10 49.34	+ 5 55.2	2.518	3.509	0.4	17.1
3 12	10 42.42	+ 6 36.9	2.533	3.511	3.4	17.4
3 22	10 36.17	+ 7 15.2	2.577	3.512	6.5	17.6
4 1	10 31.13	+ 7 46.9	2.648	3.514	9.4	17.8

315897 2008 QZ_2 3 1.4 194°.89 7°.7/27.3 16

1 22	11 36.90	+23 1.4	1.209	2.011	21.0	20.6
2 1	11 30.62	+23 23.8	1.133	2.011	17.1	20.3
2 11	11 19.81	+23 45.1	1.077	2.009	12.6	20.0
2 21	11 5.27	+23 53.4	1.043	2.008	8.6	19.8
3 2	10 48.75	+23 37.2	1.035	2.005	8.0	19.8
3 12	10 32.63	+22 50.3	1.053	2.003	11.6	19.9
3 22	10 19.04	+21 34.6	1.096	2.000	16.3	20.2
4 1	10 9.39	+19 56.6	1.159	1.996	20.7	20.4

241627 1999 VV_{162} 3 1.4 162°.12 2°.5/ 3.7 18

1 22	11 16.64	− 2 2.4	2.049	2.786	15.7	20.7
2 1	11 12.60	− 1 56.8	1.956	2.791	12.8	20.5
2 11	11 6.30	− 1 33.5	1.884	2.796	9.4	20.3
2 21	10 58.25	− 0 53.8	1.837	2.800	5.6	20.1
3 2	10 49.22	− 0 1.4	1.818	2.804	2.6	19.9
3 12	10 40.20	+ 0 58.0	1.829	2.807	4.4	20.0
3 22	10 32.15	+ 1 57.9	1.868	2.810	8.1	20.3
4 1	10 25.86	+ 2 52.4	1.933	2.812	11.7	20.5

412610 2014 OO_{95} 3 1.4 125°.76 1°.2/29.2 18

1 22	11 16.51	+ 6 54.0	2.006	2.779	14.8	22.0
2 1	11 12.43	+ 7 45.7	1.929	2.795	11.6	21.8
2 11	11 6.12	+ 8 50.9	1.874	2.810	7.9	21.6
2 21	10 58.11	+10 4.3	1.847	2.824	3.8	21.3
3 2	10 49.23	+11 18.9	1.848	2.838	1.5	21.2
3 12	10 40.49	+12 27.5	1.880	2.851	5.2	21.5
3 22	10 32.82	+13 24.1	1.939	2.863	9.1	21.7
4 1	10 26.96	+14 5.3	2.024	2.875	12.5	22.0

299880 2006 SP_{314} 3 1.4 171°.54 0°.1/ 1.3 17

1 22	11 11.70	+ 5 5.9	2.574	3.335	12.2	21.5
2 1	11 8.24	+ 5 35.3	2.479	3.337	9.7	21.3
2 11	11 3.06	+ 6 15.8	2.407	3.338	6.6	21.1
2 21	10 56.55	+ 7 4.4	2.363	3.338	3.3	20.9
3 2	10 49.33	+ 7 56.8	2.348	3.339	0.3	20.6
3 12	10 42.13	+ 8 48.2	2.364	3.340	3.8	20.9
3 22	10 35.64	+ 9 34.1	2.408	3.340	7.1	21.2
4 1	10 30.46	+10 10.8	2.479	3.340	10.1	21.3

429319 2010 EP_{72} 3 1.4 274°.34 0°.7/ 2.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 10.65	+ 1 34.1	2.198	2.958	14.1	21.6
2 1	11 7.79	+ 2 10.2	2.100	2.955	11.3	21.4
2 11	11 2.96	+ 3 2.6	2.025	2.952	7.9	21.1
2 21	10 56.58	+ 4 8.3	1.976	2.949	4.2	20.9
3 2	10 49.34	+ 5 22.3	1.956	2.946	0.7	20.6
3 12	10 42.07	+ 6 37.9	1.965	2.943	4.1	20.9
3 22	10 35.60	+ 7 48.8	2.002	2.940	7.9	21.1
4 1	10 30.65	+ 8 49.5	2.065	2.938	11.4	21.3

181693 5096 $T\text{-}_2$ 3 1.4 122°.08 0°.0/ 1.4 18

1 22	11 22.88	+ 6 53.4	2.116	2.872	14.7	20.4
2 1	11 17.23	+ 6 49.8	2.035	2.889	11.6	20.3
2 11	11 9.29	+ 6 55.9	1.977	2.905	8.0	20.1
2 21	10 59.65	+ 7 8.8	1.946	2.921	4.0	19.8
3 2	10 49.16	+ 7 24.6	1.945	2.936	0.3	19.5
3 12	10 38.86	+ 7 39.2	1.974	2.950	4.4	19.9
3 22	10 29.70	+ 7 48.8	2.033	2.964	8.3	20.2
4 1	10 22.43	+ 7 50.9	2.118	2.977	11.6	20.4

213856 2003 SA_{104} 3 1.4 79°.47 2°.2/28.8 18

1 22	11 20.62	+10 36.7	1.590	2.382	17.3	20.4
2 1	11 16.12	+11 7.0	1.528	2.404	13.5	20.2
2 11	11 8.83	+11 48.2	1.487	2.426	9.1	20.0
2 21	10 59.49	+12 34.1	1.470	2.448	4.5	19.8
3 2	10 49.18	+13 17.2	1.482	2.470	2.4	19.7
3 12	10 39.23	+13 50.7	1.521	2.491	6.4	20.0
3 22	10 30.80	+14 10.0	1.587	2.512	10.6	20.3
4 1	10 24.72	+14 13.4	1.676	2.533	14.3	20.5

372418 2009 RD_{51} 3 1.4 158°.74 1°.6/28.9 17

1 22	11 16.37	+ 9 43.9	2.084	2.863	14.1	22.0
2 1	11 12.35	+10 14.2	1.997	2.867	11.1	21.8
2 11	11 6.10	+10 54.5	1.933	2.870	7.5	21.6
2 21	10 58.14	+11 40.3	1.895	2.872	3.7	21.3
3 2	10 49.26	+12 25.8	1.887	2.875	1.8	21.2
3 12	10 40.44	+13 5.2	1.907	2.877	5.3	21.4
3 22	10 32.62	+13 33.9	1.956	2.879	9.1	21.7
4 1	10 26.55	+13 49.3	2.029	2.881	12.4	21.9

241110 2007 NR_1 3 1.4 258°.97 0°.6/ 1.9 18

1 22	11 13.55	+ 1 31.4	1.636	2.411	17.6	21.0
2 1	11 10.97	+ 2 9.7	1.535	2.399	14.2	20.7
2 11	11 5.70	+ 3 10.6	1.455	2.386	10.0	20.5
2 21	10 58.18	+ 4 31.0	1.398	2.373	5.2	20.1
3 2	10 49.25	+ 6 4.1	1.369	2.360	0.6	19.8
3 12	10 40.14	+ 7 40.1	1.367	2.346	5.4	20.1
3 22	10 32.08	+ 9 9.0	1.392	2.333	10.5	20.3
4 1	10 26.13	+10 22.6	1.441	2.319	15.0	20.6

267502 2002 JP_{144} 3 1.4 298°.70 1°.1/29.2 17

1 22	11 9.98	+ 5 16.4	1.901	2.686	15.1	19.9
2 1	11 7.72	+ 6 17.7	1.800	2.673	12.0	19.6
2 11	11 3.20	+ 7 37.4	1.721	2.660	8.2	19.4
2 21	10 56.83	+ 9 10.5	1.668	2.646	4.0	19.1
3 2	10 49.35	+10 49.6	1.644	2.634	1.4	18.9
3 12	10 41.76	+12 25.4	1.648	2.621	5.6	19.1
3 22	10 35.04	+13 49.7	1.679	2.608	9.9	19.3
4 1	10 30.07	+14 56.4	1.735	2.596	13.7	19.6

243137 2007 RL_{310} 3 1.4 162°.38 3°.4/27.2 18

1 22	11 17.62	+12 45.9	1.877	2.669	15.0	20.5
2 1	11 13.63	+13 51.3	1.797	2.674	11.7	20.3
2 11	11 7.15	+15 7.2	1.739	2.679	8.0	20.1
2 21	10 58.72	+16 26.6	1.708	2.683	4.4	19.9
3 2	10 49.24	+17 40.9	1.706	2.686	3.9	19.9
3 12	10 39.83	+18 42.1	1.732	2.689	7.1	20.1
3 22	10 31.57	+19 25.0	1.786	2.692	10.9	20.3
4 1	10 25.30	+19 47.4	1.862	2.693	14.2	20.5

78968 2003 SL_{291} 3 1.4 51°.71 2°.3/ 3.2 18

1 22	11 14.35	− 0 35.8	1.533	2.303	18.8	19.7
2 1	11 11.52	− 0 32.1	1.453	2.310	15.3	19.5
2 11	11 5.95	− 0 6.8	1.393	2.317	11.0	19.2
2 21	10 58.20	+ 0 38.0	1.355	2.324	6.3	19.0
3 2	10 49.27	+ 1 37.3	1.344	2.332	2.4	18.7
3 12	10 40.42	+ 2 43.0	1.359	2.340	5.1	18.9
3 22	10 32.86	+ 3 46.6	1.401	2.348	9.8	19.2
4 1	10 27.53	+ 4 40.9	1.466	2.356	14.0	19.5

456645 2007 RJ_4 3 1.4 185°.02 1°.0/29.5 18

1 22	11 20.23	+ 8 12.6	2.114	2.881	14.4	22.4
2 1	11 15.39	+ 8 37.9	2.020	2.881	11.4	22.2
2 11	11 8.22	+ 9 14.2	1.948	2.881	7.8	22.0
2 21	10 59.23	+ 9 57.3	1.903	2.880	3.8	21.7
3 2	10 49.21	+10 41.8	1.888	2.878	1.2	21.6
3 12	10 39.20	+11 22.0	1.903	2.875	5.0	21.8
3 22	10 30.18	+11 53.0	1.947	2.871	9.0	22.0
4 1	10 22.99	+12 11.8	2.016	2.867	12.5	22.3

347304 2011 PK_7 3 1.4 297°.42 0°.6/ 2.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 14.82	+ 4 39.4	2.371	3.130	13.2	20.5
2 1	11 10.88	+ 4 36.0	2.273	3.127	10.6	20.3
2 11	11 4.98	+ 4 43.0	2.197	3.124	7.4	20.1
2 21	10 57.57	+ 4 58.2	2.147	3.121	3.9	19.9
3 2	10 49.32	+ 5 18.7	2.127	3.118	0.6	19.6
3 12	10 41.06	+ 5 40.3	2.137	3.115	3.9	19.9
3 22	10 33.61	+ 5 59.3	2.175	3.112	7.5	20.1
4 1	10 27.65	+ 6 12.5	2.239	3.109	10.7	20.3

423404 2005 LV_{35} 3 1.4 162°.31 1°.8/28.1 17

1 22	11 11.70	+10 12.7	2.611	3.389	11.6	21.6
2 1	11 8.24	+11 6.6	2.522	3.392	9.1	21.5
2 11	11 3.06	+12 9.3	2.457	3.395	6.1	21.3
2 21	10 56.58	+13 16.5	2.421	3.398	3.1	21.1
3 2	10 49.39	+14 22.6	2.414	3.400	2.1	21.0
3 12	10 42.23	+15 22.3	2.438	3.402	4.8	21.2
3 22	10 35.78	+16 11.2	2.491	3.404	7.9	21.4
4 1	10 30.66	+16 46.7	2.569	3.406	10.6	21.6

88428 2001 QR_{62} 3 1.4 169°.56 0°.7/ 2.0 18

1 22	11 18.38	+ 2 14.5	1.938	2.694	15.9	20.8
2 1	11 14.12	+ 2 40.6	1.847	2.699	12.7	20.5
2 11	11 7.45	+ 3 23.6	1.777	2.703	9.0	20.3
2 21	10 58.87	+ 4 20.3	1.733	2.706	4.7	20.1
3 2	10 49.24	+ 5 25.4	1.718	2.709	0.7	19.8
3 12	10 39.62	+ 6 31.5	1.732	2.710	4.6	20.1
3 22	10 31.05	+ 7 32.1	1.775	2.711	8.9	20.3
4 1	10 24.39	+ 8 21.7	1.843	2.711	12.7	20.5

168953 2001 AZ_{43} 3 1.4 113°.28 1°.9/ 2.9 18

1 22	11 18.46	+ 1 10.5	1.730	2.490	17.3	20.7
2 1	11 14.41	+ 1 5.4	1.648	2.499	14.0	20.5
2 11	11 7.74	+ 1 17.2	1.586	2.509	10.0	20.2
2 21	10 59.03	+ 1 44.1	1.548	2.518	5.6	20.0
3 2	10 49.23	+ 2 21.9	1.538	2.527	1.9	19.8
3 12	10 39.54	+ 3 4.4	1.556	2.536	4.8	20.0
3 22	10 31.07	+ 3 45.4	1.601	2.544	9.2	20.3
4 1	10 24.72	+ 4 19.3	1.671	2.552	13.1	20.5

195506 2002 GW_{181} 3 1.4 220°.46 4°.5/25.3 17

1 22	11 15.21	+18 45.6	2.343	3.137	12.3	20.4
2 1	11 11.35	+19 50.9	2.254	3.131	9.7	20.2
2 11	11 5.40	+21 0.8	2.189	3.124	6.9	20.0
2 21	10 57.81	+22 8.8	2.152	3.116	4.8	19.8
3 2	10 49.31	+23 8.0	2.144	3.109	5.0	19.8
3 12	10 40.80	+23 52.3	2.165	3.101	7.4	20.0
3 22	10 33.16	+24 18.5	2.212	3.092	10.3	20.1
4 1	10 27.13	+24 25.3	2.284	3.084	13.0	20.3

102801 1999 VX_{166} 3 1.4 22°.01 5°.8/26.2 18

1 22	11 17.78	+18 21.7	1.462	2.279	17.3	19.5
2 1	11 14.49	+19 16.3	1.392	2.282	13.6	19.3
2 11	11 8.11	+20 16.8	1.344	2.285	9.7	19.1
2 21	10 59.30	+21 13.9	1.319	2.289	6.4	18.9
3 2	10 49.22	+21 57.6	1.320	2.293	6.3	18.9
3 12	10 39.35	+22 20.2	1.347	2.297	9.5	19.1
3 22	10 31.04	+22 18.3	1.398	2.301	13.5	19.3
4 1	10 25.30	+21 52.6	1.470	2.306	17.1	19.6

436342 2010 HF_{108} 3 1.4 241°.01 4°.9/24.8 17

1 22	11 14.86	+21 13.8	2.420	3.216	11.9	21.7
2 1	11 10.98	+22 10.7	2.335	3.212	9.4	21.5
2 11	11 5.08	+23 9.5	2.275	3.207	6.9	21.3
2 21	10 57.62	+24 4.2	2.242	3.202	5.1	21.2
3 2	10 49.33	+24 48.3	2.238	3.197	5.4	21.2
3 12	10 41.08	+25 17.0	2.263	3.192	7.5	21.3
3 22	10 33.70	+25 27.5	2.314	3.187	10.1	21.5
4 1	10 27.91	+25 19.5	2.388	3.182	12.6	21.7

294010 2007 TW_{95} 3 1.4 151°.85 0°.2/ 1.2 17

1 22	11 13.26	+ 5 40.8	2.492	3.254	12.5	21.6
2 1	11 9.51	+ 6 3.2	2.399	3.258	9.9	21.4
2 11	11 3.96	+ 6 36.2	2.331	3.261	6.8	21.2
2 21	10 57.04	+ 7 16.8	2.289	3.264	3.4	21.0
3 2	10 49.38	+ 8 0.9	2.277	3.268	0.3	20.7
3 12	10 41.75	+ 8 43.8	2.294	3.270	3.9	21.0
3 22	10 34.89	+ 9 21.1	2.341	3.273	7.3	21.3
4 1	10 29.43	+ 9 49.5	2.414	3.275	10.3	21.5

474008 2016 FS_{46} 3 1.4 222°.19 2°.9/ 4.4 17

1 22	11 13.27	− 4 12.3	2.242	2.969	14.8	21.4
2 1	11 9.88	− 4 3.2	2.136	2.962	12.2	21.2
2 11	11 4.45	− 3 35.7	2.050	2.955	9.2	21.0
2 21	10 57.38	− 2 50.7	1.989	2.947	5.8	20.8
3 2	10 49.35	− 1 51.2	1.956	2.939	3.1	20.6
3 12	10 41.24	− 0 42.5	1.953	2.931	4.3	20.7
3 22	10 33.90	+ 0 29.0	1.978	2.922	7.7	20.9
4 1	10 28.09	+ 1 36.9	2.030	2.913	11.1	21.0

241908 2001 YH_{142} 3 1.4 163°.79 0°.0/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 12.75	+ 5 5.7	2.760	3.515	11.6	21.4
2 1	11 8.92	+ 5 27.8	2.665	3.519	9.2	21.3
2 11	11 3.46	+ 6 0.0	2.594	3.522	6.3	21.1
2 21	10 56.77	+ 6 39.4	2.550	3.525	3.2	20.9
3 2	10 49.41	+ 7 22.5	2.537	3.528	0.2	20.6
3 12	10 42.08	+ 8 4.8	2.554	3.530	3.5	20.9
3 22	10 35.42	+ 8 42.7	2.600	3.532	6.7	21.1
4 1	10 30.02	+ 9 12.9	2.674	3.534	9.5	21.3

466896 2015 DY_{156} 3 1.4 76°.40 3°.4/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.55	+12 39.8	1.927	2.721	14.6	21.0
2 1	11 11.69	+13 57.5	1.870	2.749	11.3	20.9
2 11	11 5.58	+15 23.9	1.836	2.776	7.6	20.7
2 21	10 57.85	+16 51.6	1.829	2.803	4.3	20.5
3 2	10 49.35	+18 12.1	1.851	2.830	3.8	20.6
3 12	10 41.12	+19 18.2	1.902	2.857	6.8	20.8
3 22	10 34.06	+20 5.6	1.980	2.883	10.1	21.0
4 1	10 28.86	+20 32.8	2.082	2.909	13.1	21.3

158554 2002 JH_{22} 3 1.4 210°.43 2°.5/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.67	+13 52.9	2.777	3.552	11.1	20.8
2 1	11 11.30	+14 36.3	2.676	3.544	8.7	20.6
2 11	11 5.17	+15 25.6	2.601	3.536	5.9	20.4
2 21	10 57.66	+16 16.6	2.553	3.527	3.3	20.2
3 2	10 49.37	+17 4.3	2.537	3.517	2.8	20.1
3 12	10 41.05	+17 43.9	2.551	3.507	5.2	20.3
3 22	10 33.42	+18 12.1	2.594	3.496	8.1	20.5
4 1	10 27.12	+18 27.0	2.663	3.485	10.7	20.6

17658 1996 VS_4 3 1.4 266°.04 2°.3/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.98	+11 7.8	1.931	2.722	14.7	17.7
2 1	11 11.55	+11 46.4	1.841	2.717	11.5	17.5
2 11	11 5.76	+12 35.5	1.773	2.712	7.9	17.3
2 21	10 58.09	+13 29.7	1.730	2.708	4.0	17.0
3 2	10 49.36	+14 22.5	1.716	2.702	2.6	16.9
3 12	10 40.63	+15 6.9	1.731	2.697	6.1	17.1
3 22	10 32.91	+15 37.9	1.772	2.692	10.0	17.3
4 1	10 27.06	+15 52.7	1.837	2.687	13.6	17.6

113018 2002 RQ_{42} 3 1.4 99°.79 1°.0/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.26	+ 7 48.3	2.302	3.074	13.2	20.1
2 1	11 10.38	+ 8 21.7	2.223	3.088	10.3	19.9
2 11	11 4.59	+ 9 5.3	2.168	3.103	7.0	19.8
2 21	10 57.36	+ 9 55.0	2.140	3.117	3.4	19.5
3 2	10 49.42	+10 45.8	2.141	3.131	1.1	19.4
3 12	10 41.60	+11 32.1	2.172	3.144	4.5	19.7
3 22	10 34.67	+12 9.7	2.232	3.158	7.9	19.9
4 1	10 29.28	+12 35.8	2.317	3.171	11.0	20.1

332109 2005 UZ_{297} 3 1.4 282°.32 5°.4/25.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.83	+19 4.1	1.849	2.654	14.7	21.0
2 1	11 13.32	+20 1.9	1.758	2.640	11.7	20.7
2 11	11 7.16	+21 5.2	1.689	2.626	8.4	20.5
2 21	10 58.87	+22 6.3	1.646	2.612	5.8	20.3
3 2	10 49.32	+22 56.6	1.630	2.598	5.9	20.3
3 12	10 39.71	+23 28.6	1.642	2.584	8.8	20.4
3 22	10 31.22	+23 38.5	1.679	2.570	12.3	20.6
4 1	10 24.82	+23 25.6	1.738	2.556	15.6	20.8

256582 2007 TB_{236} 3 1.4 264°.83 0°.5/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.22	+ 2 52.1	2.349	3.107	13.3	21.0
2 1	11 9.01	+ 3 18.1	2.237	3.091	10.7	20.8
2 11	11 3.85	+ 3 58.3	2.147	3.074	7.6	20.5
2 21	10 57.12	+ 4 50.3	2.084	3.057	3.9	20.3
3 2	10 49.43	+ 5 49.8	2.050	3.040	0.5	20.0
3 12	10 41.62	+ 6 51.1	2.045	3.023	4.0	20.2
3 22	10 34.51	+ 7 48.6	2.069	3.006	7.8	20.4
4 1	10 28.83	+ 8 37.5	2.120	2.988	11.3	20.6

143603 2003 FM_{89} 3 1.4 5°.81 1°.1/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.24	+ 2 47.7	2.142	2.905	14.3	19.9
2 1	11 9.08	+ 2 50.6	2.050	2.906	11.5	19.7
2 11	11 3.87	+ 3 6.9	1.980	2.906	8.1	19.5
2 21	10 57.09	+ 3 34.3	1.935	2.907	4.4	19.2
3 2	10 49.44	+ 4 9.1	1.919	2.909	1.1	19.0
3 12	10 41.81	+ 4 46.4	1.931	2.910	4.0	19.2
3 22	10 35.05	+ 5 21.2	1.971	2.912	7.8	19.4
4 1	10 29.87	+ 5 49.5	2.036	2.915	11.2	19.7

87258 2000 OP_{53} 3 1.4 172°.53 4°.8/ 5.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.63	− 7 42.9	2.341	3.036	15.0	19.6
2 1	11 13.18	− 8 16.3	2.241	3.039	12.7	19.4
2 11	11 6.64	− 8 33.1	2.161	3.041	10.0	19.2
2 21	10 58.47	− 8 32.5	2.105	3.043	7.1	19.1
3 2	10 49.36	− 8 15.1	2.078	3.044	5.0	18.9
3 12	10 40.19	− 7 43.9	2.079	3.045	5.3	18.9
3 22	10 31.86	− 7 3.7	2.109	3.045	7.7	19.1
4 1	10 25.09	− 6 19.9	2.166	3.045	10.6	19.3

11182 1998 GM_6 3 1.4 40°.34 5°.7/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 13.96	+18 57.8	1.890	2.699	14.2	17.5
2 1	11 10.87	+20 24.6	1.814	2.699	11.2	17.3
2 11	11 5.34	+21 57.5	1.762	2.700	8.1	17.2
2 21	10 57.89	+23 27.6	1.737	2.700	5.9	17.0
3 2	10 49.40	+24 45.5	1.739	2.700	6.4	17.0
3 12	10 40.98	+25 43.4	1.768	2.701	9.0	17.2
3 22	10 33.65	+26 17.3	1.823	2.701	12.2	17.4
4 1	10 28.28	+26 26.4	1.899	2.702	15.1	17.6

6940 1972 HL_1 3 1.4 274°.01 1°.2/29.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.23	+ 7 53.0	1.547	2.340	17.6	18.2
2 1	11 14.12	+ 8 14.2	1.450	2.326	14.1	17.9
2 11	11 8.03	+ 8 50.8	1.373	2.312	9.7	17.6
2 21	10 59.44	+ 9 38.2	1.320	2.298	4.8	17.3
3 2	10 49.30	+10 29.6	1.293	2.284	1.5	17.0
3 12	10 38.98	+11 16.4	1.294	2.269	6.4	17.3
3 22	10 29.86	+11 51.7	1.320	2.255	11.5	17.6
4 1	10 23.10	+12 10.7	1.369	2.240	16.1	17.8

425159 2009 SQ_{358} 3 1.4 160°.39 4°.1/ 5.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.59	− 6 29.7	2.402	3.102	14.6	22.1
2 1	11 13.04	− 6 53.9	2.304	3.108	12.2	21.9
2 11	11 6.49	− 7 2.1	2.227	3.114	9.4	21.7
2 21	10 58.37	− 6 53.9	2.175	3.119	6.5	21.6
3 2	10 49.39	− 6 30.5	2.152	3.123	4.3	21.4
3 12	10 40.39	− 5 55.4	2.158	3.127	4.8	21.5
3 22	10 32.22	− 5 13.2	2.193	3.130	7.4	21.6
4 1	10 25.58	− 4 29.3	2.255	3.133	10.3	21.8

230489 2002 TG_{100} 3 1.4 123°.27 0°.3/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.58	+ 4 28.2	1.556	2.335	18.1	21.8
2 1	11 14.80	+ 5 3.8	1.480	2.347	14.4	21.6
2 11	11 8.18	+ 5 58.1	1.425	2.359	9.9	21.4
2 21	10 59.34	+ 7 5.9	1.394	2.370	4.9	21.1
3 2	10 49.33	+ 8 19.5	1.390	2.381	0.5	20.8
3 12	10 39.47	+ 9 29.8	1.415	2.391	5.7	21.2
3 22	10 31.00	+10 28.9	1.466	2.401	10.5	21.5
4 1	10 24.86	+11 11.6	1.540	2.410	14.6	21.8

176225 2001 QL_{125} 3 1.4 190°.75 1°.3/29.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.56	+ 7 51.2	2.237	3.008	13.5	21.0
2 1	11 11.64	+ 8 35.0	2.142	3.007	10.7	20.8
2 11	11 5.63	+ 9 30.8	2.071	3.006	7.3	20.6
2 21	10 57.98	+10 34.0	2.026	3.003	3.5	20.4
3 2	10 49.42	+11 38.8	2.011	3.000	1.5	20.2
3 12	10 40.84	+12 38.8	2.027	2.997	5.0	20.4
3 22	10 33.12	+13 28.7	2.070	2.993	8.7	20.7
4 1	10 27.01	+14 4.9	2.140	2.989	12.0	20.9

327835 2006 WZ_{81} 3 1.4 70°.66 7°.8/24.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 22.25	+25 13.6	1.639	2.447	16.1	21.1
2 1	11 17.54	+26 24.8	1.589	2.467	13.0	20.9
2 11	11 9.89	+27 33.5	1.560	2.487	9.9	20.8
2 21	11 0.07	+28 29.6	1.557	2.507	8.0	20.7
3 2	10 49.30	+29 4.2	1.580	2.526	8.4	20.8
3 12	10 39.01	+29 11.9	1.628	2.546	10.7	21.0
3 22	10 30.40	+28 52.6	1.701	2.566	13.6	21.2
4 1	10 24.30	+28 9.5	1.795	2.586	16.3	21.4

123448 2000 WR_{132} 3 1.4 97°.40 4°.7/26.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 22.60	+20 15.4	2.090	2.877	13.8	20.3
2 1	11 17.07	+20 55.1	2.026	2.898	10.9	20.1
2 11	11 9.20	+21 35.9	1.987	2.919	7.7	20.0
2 21	10 59.64	+22 11.1	1.975	2.939	5.2	19.8
3 2	10 49.33	+22 34.6	1.991	2.959	5.1	19.9
3 12	10 39.35	+22 42.0	2.037	2.978	7.4	20.1
3 22	10 30.66	+22 32.0	2.110	2.997	10.4	20.3
4 1	10 23.96	+22 5.3	2.207	3.016	13.1	20.5

36903 2000 SO_{179} 3 1.4 171°.36 1°.5/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.21	+ 0 42.5	2.275	3.020	14.1	19.6
2 1	11 11.28	+ 0 51.6	2.179	3.022	11.4	19.4
2 11	11 5.33	+ 1 15.2	2.105	3.024	8.2	19.2
2 21	10 57.82	+ 1 51.2	2.057	3.026	4.6	19.0
3 2	10 49.44	+ 2 36.1	2.038	3.027	1.5	18.8
3 12	10 41.06	+ 3 24.8	2.049	3.028	3.9	18.9
3 22	10 33.52	+ 4 12.1	2.089	3.029	7.5	19.1
4 1	10 27.53	+ 4 53.4	2.155	3.029	10.9	19.4

508377 2016 FQ_2 3 1.4 299°.50 8°.3/25.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 35.84	+28 26.1	1.757	2.536	16.4	20.7
2 1	11 29.12	+28 50.0	1.644	2.502	13.7	20.5
2 11	11 18.61	+29 8.6	1.552	2.467	10.9	20.2
2 21	11 4.83	+29 11.2	1.486	2.432	8.7	20.0
3 2	10 48.99	+28 47.4	1.448	2.397	8.7	19.9
3 12	10 32.91	+27 51.2	1.438	2.362	11.4	20.0
3 22	10 18.44	+26 22.8	1.456	2.327	15.1	20.1
4 1	10 7.00	+24 27.9	1.496	2.292	18.8	20.2

19994 Tresini 3 1.4 130°.83 2°.2/ 3.6 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 16.62	− 0 58.1	2.374	3.105	13.9	18.5
2 1	11 12.20	− 1 2.7	2.285	3.117	11.3	18.4
2 11	11 5.85	− 0 53.3	2.217	3.128	8.3	18.2
2 21	10 58.03	− 0 31.2	2.176	3.139	4.9	18.0
3 2	10 49.43	+ 0 0.7	2.164	3.150	2.3	17.8
3 12	10 40.90	+ 0 38.2	2.183	3.160	3.9	18.0
3 22	10 33.23	+ 1 16.7	2.230	3.170	7.1	18.2
4 1	10 27.09	+ 1 51.8	2.304	3.180	10.2	18.4

349003 2006 UW_{267} 3 1.4 125°.77 4°.8/ 7.1 18

1 22	11 12.66	−10 42.8	2.690	3.367	13.6	20.9
2 1	11 8.99	−11 6.4	2.591	3.373	11.6	20.7
2 11	11 3.61	−11 13.3	2.514	3.379	9.3	20.6
2 21	10 56.91	−11 3.0	2.460	3.385	6.9	20.4
3 2	10 49.50	−10 36.1	2.434	3.391	5.1	20.3
3 12	10 42.08	− 9 55.8	2.437	3.397	5.1	20.3
3 22	10 35.35	− 9 6.3	2.468	3.402	6.9	20.4
4 1	10 29.90	− 8 12.7	2.526	3.407	9.2	20.6

285931 2001 QB_{254} 3 1.4 200°.84 2°.1/28.7 18

1 22	11 21.86	+10 54.8	1.907	2.684	15.3	21.7
2 1	11 17.05	+11 24.8	1.812	2.681	12.1	21.5
2 11	11 9.62	+12 5.0	1.740	2.676	8.3	21.2
2 21	11 0.07	+12 50.4	1.694	2.670	4.2	21.0
3 2	10 49.30	+13 34.3	1.677	2.664	2.4	20.8
3 12	10 38.51	+14 10.1	1.689	2.657	6.1	21.0
3 22	10 28.84	+14 33.1	1.730	2.649	10.3	21.3
4 1	10 21.24	+14 40.6	1.794	2.640	14.0	21.5

430756 2004 RO_{20} 3 1.4 150°.70 0°.3/ 1.7 15

1 22	11 16.75	+ 4 30.0	2.595	3.342	12.5	23.1
2 1	11 12.13	+ 4 46.9	2.504	3.353	9.9	23.0
2 11	11 5.71	+ 5 14.3	2.437	3.362	6.9	22.8
2 21	10 57.93	+ 5 49.7	2.398	3.371	3.5	22.6
3 2	10 49.44	+ 6 29.2	2.389	3.380	0.3	22.3
3 12	10 41.02	+ 7 8.5	2.411	3.387	3.7	22.6
3 22	10 33.39	+ 7 43.5	2.462	3.394	7.0	22.8
4 1	10 27.17	+ 8 11.1	2.541	3.401	9.9	23.0

504229 2006 UW_{179} 3 1.4 144°.63 4°.5/24.2 18

1 22	11 14.83	+23 2.7	3.026	3.813	10.0	22.5
2 1	11 10.46	+24 2.2	2.954	3.823	7.9	22.3
2 11	11 4.47	+25 1.7	2.907	3.832	5.9	22.2
2 21	10 57.28	+25 55.9	2.890	3.842	4.6	22.1
3 2	10 49.49	+26 39.9	2.902	3.850	4.9	22.2
3 12	10 41.80	+27 10.0	2.943	3.859	6.6	22.3
3 22	10 34.84	+27 24.5	3.012	3.867	8.6	22.4
4 1	10 29.18	+27 23.1	3.105	3.874	10.6	22.6

378526 2007 VH_{186} 3 1.4 58°.79 31°.6/28.7 17

1 22	12 5.52	+57 29.6	0.573	1.387	36.2	21.1
2 1	11 58.37	+59 52.5	0.584	1.412	34.2	21.1
2 11	11 39.92	+61 14.0	0.602	1.438	32.7	21.2
2 21	11 14.27	+61 8.5	0.627	1.465	31.8	21.3
3 2	10 48.58	+59 25.3	0.663	1.492	31.7	21.4
3 12	10 29.04	+56 18.2	0.708	1.520	32.1	21.6
3 22	10 17.66	+52 14.8	0.764	1.547	32.9	21.8
4 1	10 13.72	+47 40.8	0.830	1.574	33.9	22.1

345706 2006 VX_{16} 3 1.4 231°.59 5°.1/24.6 18

1 22	11 15.47	+22 37.8	2.493	3.288	11.6	20.8
2 1	11 11.40	+23 30.2	2.412	3.286	9.3	20.6
2 11	11 5.35	+24 23.2	2.355	3.284	6.9	20.5
2 21	10 57.80	+25 10.9	2.326	3.282	5.2	20.3
3 2	10 49.46	+25 47.1	2.325	3.280	5.5	20.4
3 12	10 41.19	+26 7.6	2.353	3.277	7.5	20.5
3 22	10 33.81	+26 10.2	2.407	3.275	10.0	20.6
4 1	10 28.00	+25 54.8	2.484	3.273	12.4	20.8

259126 2002 XF_{37} 3 1.4 66°.29 1°.3/29.6 18

1 22	11 24.58	+10 18.9	1.617	2.399	17.4	19.8
2 1	11 19.08	+10 17.3	1.557	2.426	13.7	19.6
2 11	11 10.80	+10 24.9	1.518	2.454	9.3	19.4
2 21	11 0.49	+10 37.2	1.504	2.481	4.5	19.2
3 2	10 49.30	+10 48.8	1.519	2.509	1.4	19.0
3 12	10 38.59	+10 54.5	1.562	2.536	5.7	19.3
3 22	10 29.48	+10 51.3	1.633	2.563	10.0	19.7
4 1	10 22.80	+10 37.4	1.727	2.590	13.7	19.9

460211 2014 QL_{170} 3 1.4 221°.12 0°.9/ 2.2 17

1 22	11 16.10	+ 1 58.5	1.845	2.607	16.3	22.5
2 1	11 12.62	+ 2 20.8	1.745	2.601	13.2	22.3
2 11	11 6.64	+ 3 1.1	1.666	2.593	9.3	22.0
2 21	10 58.63	+ 3 56.8	1.613	2.586	4.9	21.7
3 2	10 49.40	+ 5 2.6	1.587	2.577	0.9	21.4
3 12	10 40.06	+ 6 11.1	1.590	2.569	4.8	21.7
3 22	10 31.73	+ 7 14.8	1.620	2.559	9.4	21.9
4 1	10 25.32	+ 8 7.6	1.676	2.550	13.4	22.1

403330 2009 DC_{70} 3 1.4 31°.81 0°.6/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 15.05	+ 4 21.5	1.228	2.032	20.7	20.9
2 1	11 12.65	+ 4 23.9	1.163	2.043	16.5	20.7
2 11	11 7.03	+ 4 46.2	1.115	2.054	11.5	20.4
2 21	10 58.87	+ 5 24.3	1.090	2.067	5.9	20.1
3 2	10 49.39	+ 6 11.3	1.089	2.080	0.6	19.8
3 12	10 40.17	+ 6 58.1	1.113	2.094	6.0	20.2
3 22	10 32.61	+ 7 36.7	1.162	2.109	11.4	20.5
4 1	10 27.73	+ 8 1.5	1.231	2.124	16.0	20.9

80127 1999 RP_{198} 3 1.4 152°.73 0°.8/ 2.1 18

1 22	11 21.38	+ 3 15.6	1.706	2.468	17.4	20.3
2 1	11 16.82	+ 3 25.0	1.621	2.477	14.0	20.1
2 11	11 9.50	+ 3 50.9	1.558	2.485	9.8	19.9
2 21	11 0.01	+ 4 30.3	1.519	2.492	5.1	19.6
3 2	10 49.32	+ 5 17.9	1.508	2.498	0.8	19.3
3 12	10 38.73	+ 6 6.6	1.525	2.504	5.1	19.6
3 22	10 29.42	+ 6 49.9	1.571	2.509	9.7	19.9
4 1	10 22.34	+ 7 22.8	1.641	2.513	13.8	20.2

114818 2003 OR_{10} 3 1.4 108°.43 1°.6/29.1 18

1 22	11 19.72	+ 8 44.0	1.765	2.546	16.2	20.4
2 1	11 15.26	+ 9 19.1	1.694	2.564	12.7	20.2
2 11	11 8.24	+10 6.4	1.645	2.582	8.6	20.0
2 21	10 59.28	+11 0.4	1.622	2.599	4.2	19.8
3 2	10 49.37	+11 54.1	1.627	2.616	1.8	19.7
3 12	10 39.69	+12 40.4	1.660	2.632	5.7	20.0
3 22	10 31.32	+13 14.3	1.721	2.647	9.9	20.2
4 1	10 25.06	+13 32.8	1.806	2.662	13.5	20.5

412180 2013 GD_{96} 3 1.4 267°.79 0°.2/ 1.6 16

1 22	11 13.59	+ 2 31.4	1.763	2.537	16.6	21.1
2 1	11 10.90	+ 3 11.2	1.655	2.518	13.4	20.9
2 11	11 5.65	+ 4 11.9	1.567	2.499	9.4	20.6
2 21	10 58.23	+ 5 30.3	1.504	2.479	4.8	20.3
3 2	10 49.42	+ 6 59.9	1.468	2.459	0.3	19.9
3 12	10 40.37	+ 8 31.7	1.461	2.439	5.3	20.2
3 22	10 32.23	+ 9 56.4	1.481	2.419	10.2	20.4
4 1	10 26.06	+11 6.5	1.525	2.398	14.6	20.6

237340 2009 WK_{258} 3 1.4 88°.20 0°.3/ 1.2 17

1 22	11 14.33	+ 5 34.8	1.973	2.747	15.0	21.6
2 1	11 10.88	+ 6 0.2	1.888	2.753	11.9	21.4
2 11	11 5.20	+ 6 39.1	1.825	2.759	8.2	21.2
2 21	10 57.79	+ 7 27.8	1.789	2.765	4.0	20.9
3 2	10 49.46	+ 8 20.7	1.780	2.771	0.5	20.7
3 12	10 41.21	+ 9 11.5	1.800	2.777	4.7	21.0
3 22	10 33.95	+ 9 54.6	1.848	2.783	8.7	21.3
4 1	10 28.47	+10 26.0	1.921	2.788	12.3	21.5

406844 2009 AX_{43} 3 1.4 269°.77 2°.1/ 2.9 16

1 22	11 18.03	+ 1 39.2	1.638	2.405	17.9	21.9
2 1	11 14.57	+ 1 23.0	1.537	2.393	14.6	21.6
2 11	11 8.26	+ 1 23.3	1.456	2.381	10.6	21.4
2 21	10 59.55	+ 1 39.2	1.398	2.368	6.0	21.1
3 2	10 49.36	+ 2 7.5	1.367	2.356	2.2	20.8
3 12	10 38.96	+ 2 42.3	1.363	2.343	5.3	21.0
3 22	10 29.68	+ 3 17.3	1.386	2.330	10.1	21.2
4 1	10 22.63	+ 3 46.2	1.432	2.318	14.6	21.4

500911 2013 OD_5 3 1.4 226°.56 1°.3/29.2 17

1 22	11 17.92	+ 9 10.1	2.165	2.938	13.9	21.9
2 1	11 13.66	+ 9 35.6	2.062	2.928	11.0	21.7
2 11	11 7.15	+10 11.4	1.983	2.917	7.5	21.5
2 21	10 58.82	+10 53.5	1.929	2.906	3.7	21.2
3 2	10 49.42	+11 36.6	1.905	2.895	1.5	21.0
3 12	10 39.95	+12 14.9	1.911	2.882	5.1	21.2
3 22	10 31.36	+12 43.8	1.946	2.870	9.1	21.4
4 1	10 24.48	+13 0.1	2.005	2.856	12.6	21.6

487140 2014 OS_{206} 3 1.4 242°.76 2°.0/28.7 18

1 22	11 14.98	+ 7 51.2	1.687	2.478	16.5	21.4
2 1	11 12.03	+ 8 48.0	1.593	2.470	13.0	21.1
2 11	11 6.41	+10 1.9	1.520	2.461	8.9	20.9
2 21	10 58.59	+11 27.3	1.473	2.451	4.4	20.6
3 2	10 49.44	+12 55.3	1.453	2.441	2.3	20.4
3 12	10 40.19	+14 16.2	1.461	2.431	6.6	20.7
3 22	10 32.03	+15 21.9	1.496	2.421	11.2	20.9
4 1	10 25.97	+16 7.3	1.554	2.410	15.3	21.1

69011 2002 TF_{259} 3 1.4 88°.41 1°.9/ 3.5 18

1 22	11 12.06	− 1 33.2	2.301	3.041	14.1	19.6
2 1	11 8.73	− 1 14.2	2.216	3.054	11.4	19.5
2 11	11 3.52	− 0 39.0	2.152	3.067	8.3	19.3
2 21	10 56.91	+ 0 10.2	2.114	3.079	4.8	19.1
3 2	10 49.56	+ 1 9.4	2.104	3.092	1.9	18.9
3 12	10 42.28	+ 2 13.2	2.124	3.104	3.7	19.0
3 22	10 35.84	+ 3 15.8	2.173	3.116	7.1	19.3
4 1	10 30.86	+ 4 12.1	2.249	3.128	10.3	19.5

405950 2006 RM_{120} 3 1.4 69°.55 4°.2/27.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 22.84	+16 48.6	1.606	2.405	16.8	21.4
2 1	11 17.96	+17 17.2	1.543	2.423	13.2	21.2
2 11	11 10.18	+17 50.5	1.502	2.441	9.1	21.0
2 21	11 0.26	+18 21.3	1.486	2.459	5.3	20.9
3 2	10 49.36	+18 42.1	1.497	2.476	4.6	20.8
3 12	10 38.86	+18 47.3	1.537	2.494	7.7	21.1
3 22	10 29.95	+18 35.0	1.602	2.512	11.6	21.3
4 1	10 23.50	+18 5.5	1.689	2.530	15.0	21.6

122246 2000 OT_{21} 3 1.4 145°.54 8°.0/ 9.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 22.37	−17 43.0	2.521	3.135	15.7	20.4
2 1	11 16.88	−18 58.7	2.425	3.146	14.0	20.3
2 11	11 9.21	−19 55.8	2.347	3.156	11.9	20.2
2 21	10 59.80	−20 31.2	2.293	3.165	9.9	20.0
3 2	10 49.38	−20 42.7	2.265	3.174	8.4	20.0
3 12	10 38.88	−20 31.3	2.264	3.183	8.1	20.0
3 22	10 29.21	−20 0.7	2.292	3.190	9.1	20.0
4 1	10 21.17	−19 16.6	2.345	3.197	10.9	20.2

192802 1999 VO_{16} 3 1.4 160°.19 0°.8/29.5 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.05	+ 8 2.0	2.575	3.337	12.2	21.5
2 1	11 11.65	+ 8 29.3	2.484	3.343	9.6	21.3
2 11	11 5.43	+ 9 5.5	2.417	3.349	6.5	21.1
2 21	10 57.83	+ 9 47.3	2.378	3.355	3.2	20.9
3 2	10 49.51	+10 30.3	2.370	3.360	1.0	20.8
3 12	10 41.23	+11 9.7	2.392	3.364	4.2	21.0
3 22	10 33.75	+11 41.8	2.444	3.368	7.4	21.2
4 1	10 27.67	+12 3.9	2.522	3.371	10.4	21.4

204379 2004 TB_{121} 3 1.4 147°.62 2°.0/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.27	+ 9 39.0	1.910	2.689	15.2	21.2
2 1	11 14.84	+10 25.7	1.830	2.700	12.0	21.0
2 11	11 7.96	+11 24.0	1.773	2.709	8.1	20.8
2 21	10 59.19	+12 28.4	1.741	2.718	4.0	20.5
3 2	10 49.43	+13 31.6	1.739	2.727	2.3	20.4
3 12	10 39.78	+14 26.2	1.767	2.734	5.9	20.7
3 22	10 31.28	+15 7.2	1.822	2.741	9.9	20.9
4 1	10 24.76	+15 31.6	1.901	2.747	13.4	21.2

114642 2003 EG_{39} 3 1.4 276°.06 8°.9/21.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.60	+29 10.2	1.849	2.655	14.7	19.7
2 1	11 15.63	+30 34.1	1.777	2.648	12.2	19.5
2 11	11 8.80	+31 54.9	1.728	2.642	10.0	19.3
2 21	10 59.71	+33 2.4	1.704	2.636	8.9	19.3
3 2	10 49.39	+33 46.7	1.706	2.630	9.7	19.3
3 12	10 39.20	+34 1.9	1.733	2.624	11.8	19.4
3 22	10 30.38	+33 46.7	1.783	2.618	14.5	19.6
4 1	10 23.89	+33 3.7	1.853	2.611	17.0	19.7

384194 2009 BO_{118} 3 1.4 246°.99 2°.8/ 4.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.76	− 2 7.0	2.369	3.099	14.0	21.7
2 1	11 10.92	− 2 25.3	2.266	3.095	11.5	21.5
2 11	11 5.11	− 2 29.7	2.184	3.091	8.6	21.3
2 21	10 57.76	− 2 20.7	2.128	3.087	5.4	21.1
3 2	10 49.51	− 2 0.1	2.101	3.083	3.0	21.0
3 12	10 41.22	− 1 31.7	2.103	3.079	4.1	21.0
3 22	10 33.69	− 0 59.6	2.133	3.075	7.3	21.2
4 1	10 27.63	− 0 28.4	2.190	3.071	10.4	21.4

170865 2004 GJ_{31} 3 1.4 358°.82 0°.3/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.45	+ 5 37.5	2.016	2.795	14.5	20.2
2 1	11 8.63	+ 6 1.0	1.926	2.794	11.5	20.0
2 11	11 3.69	+ 6 37.9	1.858	2.793	8.0	19.7
2 21	10 57.08	+ 7 24.6	1.816	2.793	3.9	19.5
3 2	10 49.55	+ 8 15.9	1.802	2.793	0.4	19.2
3 12	10 42.05	+ 9 5.7	1.816	2.793	4.6	19.5
3 22	10 35.45	+ 9 48.3	1.857	2.794	8.6	19.8
4 1	10 30.52	+10 19.7	1.924	2.795	12.1	20.0

413099 2001 UL_{96} 3 1.4 96°.63 0°.1/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.81	+ 4 13.9	1.939	2.707	15.4	21.6
2 1	11 11.97	+ 4 46.6	1.864	2.725	12.2	21.5
2 11	11 5.89	+ 5 34.3	1.811	2.742	8.4	21.3
2 21	10 58.12	+ 6 32.6	1.784	2.760	4.2	21.0
3 2	10 49.50	+ 7 35.7	1.785	2.776	0.3	20.7
3 12	10 41.04	+ 8 36.7	1.816	2.793	4.6	21.1
3 22	10 33.67	+ 9 29.5	1.874	2.809	8.6	21.4
4 1	10 28.12	+10 10.0	1.958	2.825	12.1	21.6

242959 2006 SF_{32} 3 1.4 111°.07 1°.8/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.99	− 1 49.5	2.529	3.264	13.1	20.4
2 1	11 7.74	− 1 26.4	2.437	3.272	10.6	20.3
2 11	11 2.79	− 0 47.9	2.367	3.280	7.7	20.1
2 21	10 56.54	+ 0 3.8	2.323	3.288	4.5	19.9
3 2	10 49.60	+ 1 5.1	2.309	3.296	1.8	19.7
3 12	10 42.70	+ 2 10.9	2.324	3.303	3.5	19.9
3 22	10 36.52	+ 3 15.9	2.369	3.311	6.6	20.1
4 1	10 31.66	+ 4 15.1	2.440	3.318	9.6	20.3

219368 2000 SO_{20} 3 1.4 43°.70 8°.3/ 9.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 11.61	−16 33.1	1.614	2.303	21.0	19.4
2 1	11 9.25	−17 2.8	1.545	2.325	18.3	19.2
2 11	11 4.33	−17 1.0	1.492	2.347	15.1	19.1
2 21	10 57.44	−16 25.5	1.458	2.370	11.8	18.9
3 2	10 49.55	−15 17.6	1.448	2.393	9.1	18.8
3 12	10 41.84	−13 43.8	1.462	2.417	8.4	18.8
3 22	10 35.39	−11 54.3	1.502	2.441	10.0	19.0
4 1	10 31.03	−10 0.7	1.567	2.466	12.7	19.2

234363 2001 NB_{14} 3 1.4 279°.28 0°.3/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.49	+ 5 14.7	2.250	3.013	13.7	20.5
2 1	11 11.73	+ 5 17.3	2.137	2.994	11.0	20.3
2 11	11 5.84	+ 5 31.0	2.046	2.975	7.7	20.1
2 21	10 58.20	+ 5 53.6	1.981	2.955	4.0	19.8
3 2	10 49.50	+ 6 21.7	1.945	2.936	0.4	19.5
3 12	10 40.65	+ 6 50.4	1.938	2.916	4.3	19.7
3 22	10 32.54	+ 7 15.5	1.960	2.896	8.2	19.9
4 1	10 26.01	+ 7 33.1	2.008	2.876	11.8	20.1

508255 2015 HB_{80} 3 1.4 260°.86 4°.7/24.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.19	+22 7.2	2.640	3.430	11.2	22.1
2 1	11 11.95	+22 53.4	2.544	3.416	8.9	21.9
2 11	11 5.76	+23 40.7	2.473	3.402	6.6	21.7
2 21	10 58.06	+24 23.5	2.430	3.388	4.9	21.6
3 2	10 49.52	+24 56.3	2.416	3.373	5.1	21.6
3 12	10 40.97	+25 14.5	2.431	3.359	7.1	21.7
3 22	10 33.20	+25 16.0	2.472	3.344	9.6	21.8
4 1	10 26.91	+25 0.5	2.538	3.329	12.1	22.0

496006 2007 XJ_{52} 3 1.4 118°.17 4°.5/24.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.93	+21 10.3	2.824	3.615	10.5	21.8
2 1	11 9.88	+22 27.7	2.759	3.632	8.3	21.7
2 11	11 4.14	+23 46.4	2.721	3.649	6.1	21.6
2 21	10 57.17	+25 0.4	2.710	3.666	4.6	21.5
3 2	10 49.58	+26 4.1	2.730	3.682	5.0	21.5
3 12	10 42.10	+26 53.0	2.780	3.698	6.8	21.7
3 22	10 35.40	+27 24.7	2.856	3.713	9.0	21.8
4 1	10 30.03	+27 38.7	2.957	3.728	11.0	22.0

83051 2001 QL_{200} 3 1.4 118°.00 5°.5/ 7.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.33	−11 43.8	2.582	3.253	14.3	19.2
2 1	11 10.39	−12 18.4	2.486	3.261	12.3	19.1
2 11	11 4.64	−12 35.8	2.411	3.269	9.9	18.9
2 21	10 57.49	−12 34.7	2.359	3.277	7.6	18.8
3 2	10 49.56	−12 15.7	2.334	3.285	5.8	18.7
3 12	10 41.63	−11 41.4	2.338	3.293	5.7	18.7
3 22	10 34.44	−10 56.0	2.370	3.301	7.3	18.8
4 1	10 28.63	−10 5.1	2.429	3.308	9.6	19.0

23178 Ghaben 3 1.4 347°.36 2°.9/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.84	− 0 21.5	1.300	2.086	20.7	19.0
2 1	11 11.82	− 0 35.6	1.217	2.082	17.0	18.7
2 11	11 6.64	− 0 26.6	1.151	2.079	12.5	18.4
2 21	10 58.84	+ 0 4.7	1.107	2.076	7.3	18.1
3 2	10 49.48	+ 0 54.0	1.086	2.074	3.0	17.9
3 12	10 40.05	+ 1 53.1	1.091	2.072	5.9	18.0
3 22	10 32.04	+ 2 52.5	1.120	2.071	11.1	18.3
4 1	10 26.62	+ 3 43.3	1.170	2.071	16.0	18.6

419532 2010 KM_{94} 3 1.4 232°.12 2°.2/ 3.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.51	− 0 57.2	2.106	2.843	15.3	22.5
2 1	11 13.50	− 0 54.9	1.993	2.830	12.6	22.3
2 11	11 7.16	− 0 35.9	1.902	2.816	9.2	22.1
2 21	10 58.91	− 0 1.4	1.835	2.800	5.4	21.8
3 2	10 49.48	+ 0 45.7	1.798	2.785	2.3	21.6
3 12	10 39.85	+ 1 40.1	1.789	2.768	4.4	21.7
3 22	10 31.03	+ 2 35.5	1.810	2.751	8.4	21.9
4 1	10 23.93	+ 3 26.1	1.856	2.733	12.2	22.1

501359 2013 YZ_{32} 3 1.4 343°.72 3°.9/ 5.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.04	− 5 24.8	2.124	2.849	15.5	21.6
2 1	11 9.82	− 5 42.1	2.026	2.848	13.0	21.4
2 11	11 4.50	− 5 41.5	1.948	2.847	9.9	21.2
2 21	10 57.51	− 5 23.0	1.895	2.846	6.7	21.0
3 2	10 49.57	− 4 48.4	1.868	2.845	4.2	20.8
3 12	10 41.58	− 4 2.0	1.870	2.844	4.8	20.8
3 22	10 34.45	− 3 9.6	1.899	2.843	7.9	21.0
4 1	10 28.93	− 2 17.2	1.954	2.843	11.1	21.2

365571 2010 TC_{96} 3 1.4 265°.83 1°.7/29.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.80	+ 9 4.1	1.832	2.615	15.6	22.0
2 1	11 14.21	+ 9 34.6	1.722	2.593	12.5	21.7
2 11	11 7.95	+10 18.3	1.634	2.571	8.6	21.4
2 21	10 59.42	+11 10.9	1.571	2.548	4.3	21.1
3 2	10 49.45	+12 5.7	1.536	2.525	1.9	20.9
3 12	10 39.21	+12 55.2	1.530	2.501	6.1	21.1
3 22	10 29.91	+13 32.8	1.550	2.477	10.8	21.3
4 1	10 22.63	+13 54.5	1.595	2.452	14.9	21.5

412223 2013 GB_{128} 3 1.5 313°.77 1°.3/ 2.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 13.21	+ 2 5.9	1.470	2.256	18.7	21.5
2 1	11 11.04	+ 2 11.6	1.376	2.244	15.2	21.2
2 11	11 5.98	+ 2 37.6	1.301	2.233	10.9	20.9
2 21	10 58.50	+ 3 21.9	1.248	2.222	5.9	20.6
3 2	10 49.52	+ 4 19.2	1.221	2.211	1.3	20.2
3 12	10 40.38	+ 5 21.2	1.220	2.201	5.5	20.5
3 22	10 32.44	+ 6 19.2	1.244	2.191	10.8	20.8
4 1	10 26.81	+ 7 5.7	1.291	2.182	15.5	21.0

378964 2008 UF_{217} 3 1.5 69°.19 0°.3/ 1.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.18	+ 5 9.9	2.014	2.788	14.7	21.3
2 1	11 9.97	+ 5 39.5	1.927	2.792	11.7	21.1
2 11	11 4.60	+ 6 23.1	1.862	2.796	8.0	20.8
2 21	10 57.55	+ 7 16.9	1.824	2.800	4.0	20.6
3 2	10 49.59	+ 8 15.3	1.813	2.804	0.4	20.3
3 12	10 41.68	+ 9 11.9	1.832	2.809	4.6	20.7
3 22	10 34.72	+10 0.8	1.878	2.813	8.6	20.9
4 1	10 29.46	+10 37.8	1.949	2.817	12.1	21.1

397 Vienna 3 1.5 141°.80 5°.0/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.14	−11 48.6	2.487	3.158	14.8	14.6
2 1	11 11.07	−11 55.3	2.392	3.171	12.6	14.5
2 11	11 5.12	−11 42.2	2.318	3.183	10.1	14.3
2 21	10 57.74	−11 8.9	2.268	3.194	7.4	14.1
3 2	10 49.58	−10 17.0	2.246	3.205	5.3	14.0
3 12	10 41.46	− 9 10.6	2.253	3.215	5.3	14.0
3 22	10 34.14	− 7 55.6	2.288	3.224	7.2	14.2
4 1	10 28.28	− 6 38.3	2.352	3.233	9.8	14.4

160738 2000 RZ_{41} 3 1.5 222°.36 1°.5/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 22.48	+ 2 58.4	2.015	2.761	15.6	20.0
2 1	11 17.51	+ 2 44.4	1.906	2.751	12.7	19.7
2 11	11 9.97	+ 2 43.1	1.819	2.740	9.1	19.5
2 21	11 0.34	+ 2 53.0	1.759	2.729	5.0	19.2
3 2	10 49.42	+ 3 11.2	1.727	2.716	1.5	19.0
3 12	10 38.34	+ 3 33.3	1.725	2.703	4.6	19.1
3 22	10 28.21	+ 3 54.5	1.752	2.689	8.9	19.4
4 1	10 20.01	+ 4 10.5	1.804	2.674	12.9	19.6

439808 2015 JR_{2} 3 1.5 320°.44 5°.0/ 6.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.64	− 9 28.7	2.356	3.053	14.9	20.1
2 1	11 8.56	− 9 54.0	2.251	3.049	12.7	19.9
2 11	11 3.56	−10 1.3	2.167	3.044	10.1	19.7
2 21	10 57.03	− 9 49.6	2.106	3.040	7.4	19.6
3 2	10 49.62	− 9 19.7	2.072	3.035	5.3	19.4
3 12	10 42.13	− 8 34.9	2.066	3.031	5.4	19.4
3 22	10 35.38	− 7 40.4	2.088	3.027	7.6	19.5
4 1	10 30.05	− 6 42.0	2.136	3.024	10.3	19.7

345554 2006 RT_{31} 3 1.5 106°.15 0°.4/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.23	+ 6 40.8	2.482	3.248	12.5	21.9
2 1	11 9.52	+ 7 4.9	2.395	3.256	9.8	21.7
2 11	11 4.01	+ 7 39.0	2.332	3.264	6.7	21.5
2 21	10 57.17	+ 8 19.8	2.296	3.272	3.3	21.3
3 2	10 49.62	+ 9 3.0	2.290	3.280	0.6	21.1
3 12	10 42.14	+ 9 43.9	2.313	3.288	4.0	21.4
3 22	10 35.44	+10 18.3	2.366	3.296	7.3	21.6
4 1	10 30.14	+10 43.4	2.444	3.304	10.3	21.8

507710 2013 TU_{136} 3 1.5 239°.21 9°.5/19.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 30.94	+38 4.7	2.459	3.219	12.8	22.2
2 1	11 24.11	+39 14.7	2.375	3.202	11.2	22.1
2 11	11 14.42	+40 15.8	2.315	3.183	9.9	22.0
2 21	11 2.47	+40 58.9	2.281	3.164	9.5	21.9
3 2	10 49.31	+41 16.0	2.274	3.144	10.2	21.9
3 12	10 36.26	+41 3.0	2.293	3.124	11.7	22.0
3 22	10 24.57	+40 20.2	2.336	3.102	13.6	22.1
4 1	10 15.22	+39 11.2	2.400	3.080	15.5	22.2

64215 2001 TP_{106} 3 1.5 18°.32 9°.4/22.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.40	+27 41.5	1.513	2.333	16.6	16.9
2 1	11 15.08	+29 1.5	1.455	2.337	13.7	16.7
2 11	11 8.58	+30 17.9	1.418	2.342	10.9	16.6
2 21	10 59.63	+31 19.4	1.405	2.347	9.5	16.5
3 2	10 49.47	+31 55.3	1.416	2.353	10.1	16.6
3 12	10 39.64	+31 59.5	1.451	2.360	12.5	16.7
3 22	10 31.50	+31 31.9	1.509	2.367	15.4	16.9
4 1	10 26.00	+30 36.0	1.586	2.375	18.2	17.1

351546 2005 TA_{29} 3 1.5 129°.70 3°.5/27.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 22.77	+13 31.3	1.807	2.592	15.7	21.6
2 1	11 17.67	+14 25.4	1.737	2.610	12.3	21.4
2 11	11 9.92	+15 28.2	1.690	2.628	8.4	21.2
2 21	11 0.18	+16 32.3	1.670	2.644	4.6	21.0
3 2	10 49.45	+17 29.6	1.678	2.659	3.8	21.0
3 12	10 38.97	+18 13.0	1.716	2.674	7.1	21.2
3 22	10 29.85	+18 38.6	1.780	2.687	10.8	21.5
4 1	10 22.94	+18 45.1	1.868	2.700	14.2	21.7

206262 2002 XA_{91} 3 1.5 47°.04 6°.0/25.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 21.78	+23 36.4	1.895	2.694	14.6	19.5
2 1	11 16.70	+24 12.0	1.839	2.714	11.6	19.3
2 11	11 9.09	+24 45.6	1.805	2.734	8.6	19.2
2 21	10 59.67	+25 10.1	1.797	2.755	6.3	19.1
3 2	10 49.49	+25 19.1	1.817	2.777	6.4	19.1
3 12	10 39.73	+25 8.8	1.865	2.798	8.6	19.3
3 22	10 31.42	+24 38.9	1.939	2.820	11.4	19.5
4 1	10 25.27	+23 51.4	2.035	2.842	14.1	19.7

295163 2008 FR_{65} 3 1.5 357°.32 3°.6/ 4.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.07	− 4 38.0	1.544	2.305	19.0	20.2
2 1	11 8.30	− 4 31.8	1.456	2.303	15.8	20.0
2 11	11 3.90	− 3 59.7	1.386	2.301	11.9	19.7
2 21	10 57.37	− 3 2.5	1.338	2.300	7.5	19.5
3 2	10 49.61	− 1 44.5	1.316	2.300	3.9	19.3
3 12	10 41.81	− 0 14.2	1.320	2.300	5.3	19.3
3 22	10 35.15	+ 1 18.3	1.349	2.301	9.6	19.6
4 1	10 30.60	+ 2 43.2	1.403	2.302	13.9	19.8

333866 1996 EZ_{6} 3 1.5 74°.78 0°.8/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.96	+ 8 37.3	1.988	2.764	14.8	20.8
2 1	11 13.64	+ 8 46.2	1.910	2.777	11.7	20.6
2 11	11 7.04	+ 9 4.7	1.855	2.790	8.0	20.4
2 21	10 58.73	+ 9 29.2	1.826	2.802	3.9	20.2
3 2	10 49.55	+ 9 54.8	1.825	2.815	1.0	20.0
3 12	10 40.54	+10 16.6	1.853	2.828	4.8	20.3
3 22	10 32.64	+10 30.6	1.910	2.841	8.7	20.6
4 1	10 26.59	+10 34.4	1.991	2.854	12.2	20.8

464961 2005 WQ_{111} 3 1.5 77°.63 6°.1/24.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.84	+21 12.7	1.839	2.643	14.8	21.0
2 1	11 14.53	+22 31.5	1.787	2.667	11.6	20.8
2 11	11 7.70	+23 51.6	1.759	2.691	8.5	20.7
2 21	10 59.04	+25 4.2	1.756	2.715	6.4	20.6
3 2	10 49.53	+26 0.8	1.782	2.739	6.7	20.6
3 12	10 40.38	+26 35.4	1.834	2.762	9.1	20.8
3 22	10 32.58	+26 46.1	1.912	2.785	12.0	21.1
4 1	10 26.91	+26 34.2	2.012	2.808	14.6	21.3

496591 2015 BG_{336} 3 1.5 143°.67 2°.3/27.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.98	+11 35.0	2.286	3.068	13.0	21.8
2 1	11 11.10	+12 22.4	2.203	3.075	10.1	21.6
2 11	11 5.22	+13 18.5	2.144	3.082	6.8	21.4
2 21	10 57.81	+14 17.9	2.112	3.088	3.6	21.2
3 2	10 49.60	+15 14.8	2.109	3.094	2.6	21.2
3 12	10 41.47	+16 3.4	2.136	3.099	5.5	21.3
3 22	10 34.22	+16 39.5	2.192	3.104	8.8	21.6
4 1	10 28.55	+17 0.7	2.272	3.109	11.8	21.8

52610 1997 UK_{1} 3 1.5 66°.53 3°.0/28.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.03	+12 56.5	1.690	2.488	16.1	19.0
2 1	11 14.15	+13 31.5	1.620	2.500	12.6	18.8
2 11	11 7.62	+14 15.3	1.572	2.512	8.6	18.6
2 21	10 59.08	+15 1.7	1.548	2.524	4.5	18.4
3 2	10 49.53	+15 43.1	1.552	2.537	3.3	18.3
3 12	10 40.21	+16 12.9	1.584	2.549	6.8	18.5
3 22	10 32.22	+16 27.1	1.642	2.561	10.8	18.8
4 1	10 26.41	+16 24.2	1.723	2.574	14.3	19.0

120309 2004 KX_{15} 3 1.5 139°.44 3°.2/ 5.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.44	− 6 46.5	2.467	3.170	14.1	20.3
2 1	11 10.49	− 6 30.3	2.374	3.183	11.7	20.1
2 11	11 4.71	− 5 55.7	2.304	3.196	8.9	19.9
2 21	10 57.53	− 5 3.9	2.258	3.208	5.8	19.8
3 2	10 49.62	− 3 57.9	2.242	3.220	3.4	19.6
3 12	10 41.76	− 2 43.0	2.255	3.230	4.1	19.7
3 22	10 34.70	− 1 25.2	2.299	3.240	6.8	19.9
4 1	10 29.07	− 0 10.6	2.370	3.250	9.8	20.1

500934 2013 PF_{55} 3 1.5 329°.28 1°.1/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.19	+ 0 51.3	1.599	2.380	17.7	21.6
2 1	11 8.36	+ 1 16.8	1.505	2.370	14.3	21.4
2 11	11 3.95	+ 2 4.4	1.430	2.361	10.2	21.1
2 21	10 57.42	+ 3 11.3	1.379	2.353	5.5	20.8
3 2	10 49.62	+ 4 31.4	1.354	2.345	1.2	20.5
3 12	10 41.73	+ 5 55.9	1.356	2.337	5.1	20.7
3 22	10 34.90	+ 7 15.2	1.385	2.330	10.0	21.0
4 1	10 30.12	+ 8 21.5	1.436	2.324	14.4	21.2

55423 2001 TT_{33} 3 1.5 97°.59 2°.2/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.74	+13 3.9	2.367	3.149	12.6	19.6
2 1	11 11.64	+13 26.5	2.278	3.149	9.8	19.4
2 11	11 5.57	+13 55.2	2.213	3.150	6.7	19.2
2 21	10 57.99	+14 25.6	2.175	3.150	3.5	19.0
3 2	10 49.60	+14 53.1	2.166	3.151	2.4	18.9
3 12	10 41.28	+15 13.2	2.187	3.152	5.2	19.1
3 22	10 33.83	+15 22.8	2.236	3.152	8.5	19.3
4 1	10 27.93	+15 20.2	2.310	3.153	11.4	19.5

127736 2003 FN_2 3 1.5 231°.92 6°.8/24.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 21.52	+24 57.5	1.998	2.794	14.0	20.0
2 1	11 16.80	+25 52.8	1.917	2.789	11.4	19.8
2 11	11 9.43	+26 47.2	1.860	2.784	8.7	19.7
2 21	11 0.01	+27 32.8	1.829	2.779	6.9	19.5
3 2	10 49.49	+28 1.4	1.825	2.774	7.3	19.6
3 12	10 39.08	+28 7.8	1.849	2.768	9.5	19.7
3 22	10 29.93	+27 50.4	1.898	2.763	12.4	19.8
4 1	10 22.91	+27 10.7	1.969	2.757	15.2	20.0

303429 2005 AR_{21} 3 1.5 347°.37 3°.4/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 9.93	+10 57.6	1.151	1.986	19.9	20.1
2 1	11 9.16	+11 37.0	1.074	1.975	15.7	19.8
2 11	11 5.05	+12 33.3	1.016	1.966	10.8	19.5
2 21	10 58.15	+13 39.1	0.979	1.959	5.6	19.2
3 2	10 49.59	+14 43.4	0.966	1.953	3.8	19.0
3 12	10 41.02	+15 34.6	0.976	1.948	8.6	19.3
3 22	10 34.01	+16 4.6	1.008	1.944	14.0	19.6
4 1	10 29.80	+16 9.4	1.060	1.943	18.8	19.8

501110 2013 TJ_7 3 1.5 199°.77 4°.9/ 6.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.01	− 9 25.2	2.446	3.131	14.7	22.2
2 1	11 11.93	− 9 47.5	2.338	3.128	12.5	22.1
2 11	11 5.86	− 9 52.2	2.250	3.124	9.9	21.9
2 21	10 58.20	− 9 38.4	2.186	3.119	7.2	21.7
3 2	10 49.61	− 9 6.8	2.150	3.114	5.1	21.6
3 12	10 40.91	− 8 20.8	2.143	3.108	5.3	21.6
3 22	10 32.96	− 7 25.3	2.165	3.102	7.5	21.7
4 1	10 26.46	− 6 26.2	2.214	3.095	10.4	21.8

498567 2008 KZ_{29} 3 1.5 237°.69 3°.9/26.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.79	+13 47.2	2.141	2.935	13.3	22.0
2 1	11 10.56	+15 12.7	2.045	2.924	10.4	21.7
2 11	11 5.13	+16 49.3	1.973	2.912	7.2	21.5
2 21	10 57.91	+18 29.8	1.928	2.900	4.4	21.3
3 2	10 49.62	+20 5.8	1.913	2.887	4.4	21.3
3 12	10 41.22	+21 28.8	1.927	2.875	7.3	21.4
3 22	10 33.66	+22 32.9	1.969	2.861	10.7	21.6
4 1	10 27.77	+23 15.1	2.034	2.848	13.8	21.8

60733 2000 GL_{80} 3 1.5 179°.29 5°.3/25.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 23.76	+20 39.4	2.162	2.946	13.5	20.1
2 1	11 18.26	+21 41.4	2.079	2.948	10.8	19.9
2 11	11 10.29	+22 46.2	2.021	2.950	7.8	19.7
2 21	11 0.40	+23 46.3	1.991	2.951	5.6	19.6
3 2	10 49.49	+24 33.9	1.990	2.951	5.8	19.6
3 12	10 38.66	+25 3.2	2.018	2.949	8.2	19.7
3 22	10 28.98	+25 11.6	2.074	2.947	11.1	19.9
4 1	10 21.28	+24 59.5	2.153	2.944	13.9	20.1

33931 2000 LW_{28} 3 1.5 194°.02 1°.8/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.38	− 0 25.0	1.988	2.732	15.9	19.6
2 1	11 13.44	− 0 10.5	1.888	2.730	12.9	19.4
2 11	11 7.12	+ 0 21.9	1.810	2.728	9.3	19.2
2 21	10 58.91	+ 1 10.4	1.757	2.725	5.3	18.9
3 2	10 49.59	+ 2 10.7	1.732	2.721	1.8	18.7
3 12	10 40.19	+ 3 16.4	1.737	2.716	4.4	18.9
3 22	10 31.75	+ 4 20.5	1.770	2.711	8.6	19.1
4 1	10 25.13	+ 5 16.9	1.829	2.705	12.4	19.3

89460 2001 XB_8 3 1.5 51°.91 4°.2/25.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.59	+15 2.0	2.164	2.966	12.9	19.5
2 1	11 7.86	+16 37.4	2.091	2.975	10.0	19.3
2 11	11 3.10	+18 20.9	2.043	2.984	6.9	19.1
2 21	10 56.82	+20 5.0	2.023	2.993	4.5	19.0
3 2	10 49.71	+21 41.1	2.033	3.003	4.7	19.0
3 12	10 42.67	+23 1.9	2.071	3.012	7.3	19.2
3 22	10 36.52	+24 2.6	2.136	3.022	10.3	19.4
4 1	10 31.96	+24 41.2	2.224	3.032	13.0	19.6

90233 2003 BG_{27} 3 1.5 289°.90 5°.5/ 5.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.77	− 5 38.5	1.849	2.574	17.5	19.3
2 1	11 14.12	− 6 33.3	1.742	2.562	14.9	19.1
2 11	11 7.85	− 7 11.4	1.655	2.549	11.7	18.8
2 21	10 59.40	− 7 30.6	1.591	2.537	8.2	18.6
3 2	10 49.56	− 7 30.5	1.553	2.525	5.7	18.4
3 12	10 39.48	− 7 13.7	1.543	2.512	6.4	18.4
3 22	10 30.34	− 6 45.0	1.559	2.500	9.5	18.6
4 1	10 23.16	− 6 10.9	1.600	2.488	13.2	18.8

251007 2006 PX_{15} 3 1.5 180°.60 1°.2/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.77	+ 8 38.6	2.171	2.940	14.0	21.9
2 1	11 14.24	+ 9 8.5	2.079	2.942	11.0	21.7
2 11	11 7.50	+ 9 48.9	2.009	2.943	7.5	21.5
2 21	10 59.03	+10 35.7	1.966	2.943	3.7	21.3
3 2	10 49.60	+11 23.4	1.953	2.942	1.4	21.1
3 12	10 40.18	+12 6.2	1.970	2.941	5.0	21.3
3 22	10 31.71	+12 39.4	2.016	2.939	8.8	21.6
4 1	10 24.98	+13 0.0	2.087	2.937	12.2	21.8

323440 2004 GY_{84} 3 1.5 218°.64 3°.0/27.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 15.95	+12 44.5	2.182	2.967	13.4	21.9
2 1	11 12.15	+13 41.0	2.086	2.960	10.5	21.7
2 11	11 6.14	+14 47.1	2.013	2.952	7.2	21.5
2 21	10 58.39	+15 56.8	1.968	2.943	4.0	21.3
3 2	10 49.63	+17 3.4	1.953	2.934	3.3	21.2
3 12	10 40.81	+18 0.0	1.967	2.925	6.3	21.4
3 22	10 32.87	+18 41.5	2.008	2.914	9.8	21.6
4 1	10 26.61	+19 5.6	2.074	2.904	13.0	21.8

233021 2005 EY_{257} 3 1.5 220°.47 1°.3/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.58	+ 0 41.2	2.377	3.124	13.5	20.9
2 1	11 9.22	+ 0 56.5	2.276	3.121	10.9	20.7
2 11	11 3.97	+ 1 26.2	2.197	3.117	7.8	20.5
2 21	10 57.25	+ 2 8.2	2.145	3.114	4.4	20.3
3 2	10 49.70	+ 2 58.9	2.121	3.110	1.4	20.1
3 12	10 42.11	+ 3 53.3	2.127	3.106	3.7	20.3
3 22	10 35.26	+ 4 46.0	2.161	3.102	7.3	20.5
4 1	10 29.84	+ 5 32.5	2.222	3.098	10.5	20.7

60649 2000 FZ_{41} 3 1.5 275°.67 3°.8/27.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.37	+14 37.6	1.757	2.557	15.5	19.3
2 1	11 13.80	+15 19.9	1.670	2.552	12.2	19.1
2 11	11 7.55	+16 10.6	1.606	2.546	8.5	18.8
2 21	10 59.18	+17 3.1	1.566	2.541	4.8	18.6
3 2	10 49.59	+17 49.5	1.554	2.535	4.1	18.6
3 12	10 40.02	+18 22.6	1.570	2.530	7.4	18.7
3 22	10 31.63	+18 37.9	1.612	2.524	11.4	18.9
4 1	10 25.37	+18 33.9	1.676	2.518	15.0	19.2

48257 2001 VE_{92} 3 1.5 255°.07 4°.5/ 6.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.75	− 9 0.7	2.026	2.738	16.6	19.3
2 1	11 9.07	− 8 51.1	1.917	2.728	14.1	19.1
2 11	11 4.17	− 8 17.5	1.828	2.718	11.0	18.9
2 21	10 57.48	− 7 19.6	1.762	2.708	7.6	18.6
3 2	10 49.69	− 5 59.8	1.723	2.697	4.8	18.4
3 12	10 41.77	− 4 24.2	1.712	2.687	5.2	18.4
3 22	10 34.67	− 2 41.1	1.729	2.676	8.3	18.6
4 1	10 29.25	− 0 59.6	1.773	2.665	11.9	18.8

288672 2004 PW_{72} 3 1.5 305°.25 2°.3/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.25	+ 8 0.9	1.426	2.231	18.3	20.4
2 1	11 11.90	+ 8 57.1	1.344	2.228	14.4	20.1
2 11	11 6.58	+10 12.2	1.281	2.224	9.8	19.8
2 21	10 58.81	+11 39.5	1.243	2.221	4.9	19.5
3 2	10 49.62	+13 8.8	1.230	2.218	2.7	19.4
3 12	10 40.40	+14 28.9	1.244	2.215	7.3	19.6
3 22	10 32.52	+15 30.9	1.283	2.212	12.2	19.9
4 1	10 27.07	+16 9.9	1.344	2.210	16.6	20.2

284333 2006 RB_{16} 3 1.5 151°.16 0°.8/29.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.81	+ 8 19.3	2.844	3.607	11.1	21.7
2 1	11 9.74	+ 8 46.8	2.754	3.614	8.7	21.6
2 11	11 4.08	+ 9 22.4	2.689	3.621	5.9	21.4
2 21	10 57.22	+10 2.6	2.651	3.628	2.9	21.2
3 2	10 49.72	+10 43.8	2.644	3.634	1.0	21.1
3 12	10 42.28	+11 21.6	2.667	3.639	3.8	21.3
3 22	10 35.52	+11 52.8	2.721	3.644	6.8	21.5
4 1	10 29.99	+12 14.8	2.800	3.649	9.5	21.7

406099 2006 UW_{286} 3 1.5 50°.31 7°.2/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.52	−13 7.9	1.504	2.218	21.4	20.8
2 1	11 10.88	−13 28.7	1.440	2.243	18.3	20.6
2 11	11 5.52	−13 18.3	1.392	2.269	14.7	20.4
2 21	10 58.11	−12 35.5	1.364	2.295	10.9	20.3
3 2	10 49.67	−11 22.9	1.360	2.321	7.8	20.2
3 12	10 41.48	− 9 48.4	1.382	2.348	7.4	20.2
3 22	10 34.68	− 8 3.1	1.429	2.375	9.8	20.4
4 1	10 30.10	− 6 18.2	1.500	2.402	13.1	20.6

299765 2006 SC_{15} 3 1.5 116°.32 2°.9/ 5.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.99	− 6 11.1	2.632	3.341	13.2	20.8
2 1	11 7.71	− 5 54.1	2.538	3.351	10.9	20.6
2 11	11 2.78	− 5 20.2	2.466	3.361	8.3	20.5
2 21	10 56.60	− 4 30.6	2.419	3.371	5.4	20.3
3 2	10 49.76	− 3 28.2	2.401	3.380	3.1	20.2
3 12	10 42.95	− 2 17.8	2.413	3.389	3.7	20.2
3 22	10 36.84	− 1 4.9	2.455	3.398	6.4	20.4
4 1	10 31.99	+ 0 5.2	2.524	3.407	9.1	20.6

340782 2006 SM_{383} 3 1.5 73°.53 0°.2/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.90	+ 4 17.5	2.346	3.112	13.1	21.2
2 1	11 7.83	+ 5 2.3	2.263	3.123	10.4	21.0
2 11	11 2.95	+ 6 0.3	2.203	3.135	7.1	20.8
2 21	10 56.71	+ 7 7.7	2.171	3.147	3.5	20.6
3 2	10 49.75	+ 8 19.0	2.167	3.158	0.4	20.4
3 12	10 42.88	+ 9 28.2	2.194	3.170	4.1	20.7
3 22	10 36.80	+10 29.9	2.249	3.182	7.5	20.9
4 1	10 32.14	+11 20.1	2.330	3.193	10.6	21.1

126322 2002 AX_{143} 3 1.5 148°.74 1°.8/28.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 19.06	+ 8 41.0	2.053	2.825	14.6	21.3
2 1	11 14.52	+ 9 35.8	1.972	2.838	11.4	21.1
2 11	11 7.70	+10 42.7	1.914	2.849	7.7	20.9
2 21	10 59.12	+11 56.2	1.883	2.860	3.8	20.7
3 2	10 49.62	+13 9.2	1.882	2.870	2.1	20.6
3 12	10 40.22	+14 14.4	1.911	2.878	5.5	20.9
3 22	10 31.87	+15 6.4	1.968	2.886	9.3	21.1
4 1	10 25.36	+15 42.1	2.051	2.893	12.7	21.3

265743 2005 VX_2 3 1.5 68°.85 5°.7/ 5.9 18

1 22	11 18.45	− 7 3.4	1.893	2.608	17.5	20.5
2 1	11 14.39	− 7 58.4	1.802	2.612	14.8	20.3
2 11	11 7.83	− 8 35.1	1.731	2.617	11.7	20.1
2 21	10 59.29	− 8 51.8	1.682	2.622	8.4	19.9
3 2	10 49.61	− 8 48.4	1.661	2.627	6.0	19.8
3 12	10 39.89	− 8 27.9	1.666	2.632	6.3	19.8
3 22	10 31.23	− 7 55.5	1.699	2.638	9.1	20.0
4 1	10 24.52	− 7 17.9	1.757	2.643	12.3	20.2

54139 2000 HZ_{36} 3 1.5 75°.75 6°.9/23.4 18 R

1 22	11 14.58	+20 8.3	1.698	2.513	15.3	17.7
2 1	11 11.67	+21 59.8	1.634	2.522	12.1	17.5
2 11	11 6.09	+23 56.8	1.595	2.530	8.9	17.3
2 21	10 58.42	+25 48.3	1.581	2.539	7.0	17.2
3 2	10 49.66	+27 22.9	1.594	2.548	7.7	17.3
3 12	10 41.03	+28 31.7	1.634	2.556	10.4	17.5
3 22	10 33.68	+29 11.1	1.698	2.565	13.5	17.7
4 1	10 28.51	+29 21.4	1.783	2.574	16.4	17.9

282673 2005 WX_7 3 1.5 178°.92 4°.0/ 4.6 18

1 22	11 16.47	− 4 9.3	1.566	2.315	19.3	20.9
2 1	11 13.38	− 4 20.8	1.476	2.316	16.0	20.6
2 11	11 7.45	− 4 9.0	1.405	2.316	12.1	20.4
2 21	10 59.21	− 3 33.9	1.356	2.316	7.7	20.1
3 2	10 49.62	− 2 38.6	1.333	2.316	4.2	19.9
3 12	10 39.97	− 1 30.1	1.337	2.316	5.6	20.0
3 22	10 31.53	− 0 17.3	1.367	2.315	9.9	20.2
4 1	10 25.36	+ 0 50.8	1.422	2.315	14.2	20.5

490578 2009 WV_{98} 3 1.5 64°.05 5°.2/ 6.5 18

1 22	11 15.74	− 8 59.4	1.849	2.561	18.0	21.6
2 1	11 12.05	− 9 18.7	1.779	2.588	15.1	21.5
2 11	11 6.03	− 9 15.0	1.728	2.614	11.7	21.3
2 21	10 58.28	− 8 48.1	1.700	2.641	8.3	21.1
3 2	10 49.68	− 8 0.6	1.699	2.668	5.6	21.0
3 12	10 41.29	− 6 58.2	1.724	2.694	5.8	21.1
3 22	10 34.06	− 5 48.5	1.777	2.721	8.4	21.3
4 1	10 28.73	− 4 39.0	1.856	2.747	11.5	21.5

295162 2008 FK_{65} 3 1.5 336°.72 0°.7/ 2.1 18

1 22	11 12.99	+ 2 43.0	1.660	2.439	17.2	21.2
2 1	11 10.44	+ 3 2.5	1.570	2.435	13.8	21.0
2 11	11 5.30	+ 3 40.7	1.500	2.432	9.7	20.7
2 21	10 58.10	+ 4 34.3	1.454	2.429	5.1	20.5
3 2	10 49.69	+ 5 37.7	1.435	2.426	0.7	20.1
3 12	10 41.24	+ 6 42.9	1.444	2.424	5.0	20.4
3 22	10 33.90	+ 7 42.1	1.479	2.422	9.8	20.7
4 1	10 28.60	+ 8 29.1	1.537	2.420	14.0	20.9

48276 2002 ED_{20} 3 1.5 273°.61 0°.4/ 1.2 18

1 22	11 18.81	+ 7 11.0	1.637	2.421	17.2	18.7
2 1	11 15.25	+ 7 14.8	1.538	2.408	13.8	18.4
2 11	11 8.80	+ 7 32.0	1.459	2.395	9.6	18.1
2 21	10 59.94	+ 7 59.2	1.404	2.381	4.8	17.8
3 2	10 49.59	+ 8 31.1	1.377	2.367	0.6	17.5
3 12	10 39.07	+ 9 0.9	1.377	2.354	5.7	17.8
3 22	10 29.70	+ 9 22.7	1.403	2.340	10.7	18.1
4 1	10 22.59	+ 9 32.4	1.453	2.326	15.2	18.3

31130 1997 SS_{10} 3 1.5 38°.63 1°.2/ 2.4 18

1 22	11 13.90	+ 1 16.7	1.365	2.153	19.8	18.0
2 1	11 11.61	+ 1 35.7	1.289	2.158	16.0	17.8
2 11	11 6.33	+ 2 17.8	1.231	2.164	11.3	17.5
2 21	10 58.66	+ 3 19.8	1.196	2.170	6.1	17.2
3 2	10 49.67	+ 4 34.6	1.186	2.177	1.2	16.9
3 12	10 40.76	+ 5 52.0	1.203	2.184	5.6	17.2
3 22	10 33.27	+ 7 2.3	1.244	2.191	10.8	17.6
4 1	10 28.22	+ 7 57.9	1.308	2.198	15.4	17.8

46665 1996 FD 3 1.5 19°.15 9°.3/24.4 18

1 22	11 22.63	+27 27.3	1.417	2.235	17.7	17.1
2 1	11 18.61	+28 25.6	1.358	2.239	14.5	16.9
2 11	11 11.13	+29 19.5	1.318	2.244	11.4	16.8
2 21	11 0.98	+29 57.7	1.301	2.249	9.4	16.7
3 2	10 49.55	+30 9.9	1.309	2.255	9.9	16.7
3 12	10 38.55	+29 50.6	1.342	2.262	12.3	16.8
3 22	10 29.47	+29 0.7	1.397	2.270	15.5	17.1
4 1	10 23.30	+27 44.8	1.471	2.278	18.6	17.3

209375 2004 EA_{24} 3 1.5 52°.80 1°.4/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 10.66	− 0 54.0	2.062	2.816	15.1	20.1
2 1	11 7.91	− 0 20.5	1.980	2.829	12.2	19.9
2 11	11 3.15	+ 0 31.3	1.920	2.841	8.7	19.7
2 21	10 56.86	+ 1 38.3	1.885	2.854	4.8	19.5
3 2	10 49.78	+ 2 55.4	1.878	2.867	1.5	19.3
3 12	10 42.78	+ 4 15.6	1.900	2.881	4.0	19.5
3 22	10 36.68	+ 5 31.9	1.951	2.894	7.8	19.7
4 1	10 32.18	+ 6 38.4	2.027	2.907	11.2	19.9

241365 2008 AO_3 3 1.5 146°.92 3°.8/25.4 17

1 22	11 12.43	+17 16.1	2.647	3.438	11.1	20.7
2 1	11 8.92	+18 27.8	2.567	3.443	8.7	20.5
2 11	11 3.65	+19 44.2	2.513	3.448	6.1	20.4
2 21	10 57.06	+20 59.4	2.487	3.453	4.1	20.2
3 2	10 49.77	+22 7.5	2.491	3.458	4.2	20.3
3 12	10 42.51	+23 3.0	2.524	3.462	6.4	20.4
3 22	10 36.01	+23 42.6	2.585	3.466	8.9	20.6
4 1	10 30.85	+24 5.0	2.671	3.470	11.3	20.7

507672 2013 RK_{99} 3 1.5 233°.98 0°.0/ 1.5 17

1 22	11 16.08	+ 5 0.7	2.205	2.966	14.0	22.8
2 1	11 12.24	+ 5 21.9	2.098	2.955	11.2	22.6
2 11	11 6.23	+ 5 56.1	2.013	2.943	7.8	22.3
2 21	10 58.48	+ 6 40.4	1.955	2.931	3.9	22.1
3 2	10 49.69	+ 7 30.1	1.927	2.918	0.2	21.7
3 12	10 40.78	+ 8 19.6	1.928	2.904	4.4	22.0
3 22	10 32.68	+ 9 3.4	1.957	2.890	8.4	22.2
4 1	10 26.19	+ 9 37.3	2.012	2.876	12.0	22.4

424133 2007 FA_{13} 3 1.5 283°.19 5°.9/ 6.4 17

1 22	11 14.43	− 8 54.8	1.982	2.691	17.0	20.5
2 1	11 11.34	− 9 33.2	1.871	2.676	14.6	20.3
2 11	11 5.87	− 9 52.1	1.778	2.660	11.7	20.1
2 21	10 58.41	− 9 49.4	1.708	2.644	8.6	19.9
3 2	10 49.69	− 9 24.8	1.663	2.628	6.2	19.7
3 12	10 40.72	− 8 41.6	1.646	2.612	6.4	19.7
3 22	10 32.57	− 7 45.4	1.656	2.596	9.1	19.8
4 1	10 26.18	− 6 43.7	1.690	2.581	12.5	19.9

293559 2007 HE_{46} 3 1.5 279°.12 3°.3/27.3 18

1 22	11 14.37	+13 24.9	1.946	2.743	14.3	20.4
2 1	11 11.18	+14 17.5	1.855	2.736	11.3	20.2
2 11	11 5.64	+15 19.7	1.788	2.728	7.7	20.0
2 21	10 58.21	+16 25.2	1.746	2.721	4.3	19.8
3 2	10 49.71	+17 26.6	1.732	2.713	3.7	19.7
3 12	10 41.17	+18 16.5	1.747	2.705	6.9	19.9
3 22	10 33.62	+18 50.0	1.788	2.698	10.6	20.1
4 1	10 27.92	+19 4.6	1.852	2.690	14.0	20.3

341720 2007 VE_{212} 3 1.5 176°.88 3°.7/25.2 18

1 22	11 15.20	+20 0.1	3.115	3.897	9.8	21.9
2 1	11 10.79	+20 56.3	3.031	3.900	7.7	21.7
2 11	11 4.79	+21 54.5	2.972	3.902	5.6	21.6
2 21	10 57.59	+22 49.7	2.942	3.903	3.9	21.5
3 2	10 49.76	+23 37.3	2.943	3.904	4.1	21.5
3 12	10 41.96	+24 13.2	2.974	3.904	5.9	21.6
3 22	10 34.83	+24 35.2	3.033	3.903	8.1	21.7
4 1	10 28.91	+24 42.4	3.117	3.902	10.2	21.9

289976 2005 NP_{124} 3 1.5 267°.98 1°.3/29.4 17

1 22	11 15.97	+ 8 18.1	1.822	2.607	15.6	20.9
2 1	11 12.67	+ 8 46.5	1.723	2.595	12.4	20.7
2 11	11 6.81	+ 9 28.2	1.645	2.583	8.6	20.4
2 21	10 58.88	+10 18.8	1.592	2.570	4.2	20.1
3 2	10 49.68	+11 12.0	1.568	2.557	1.6	19.9
3 12	10 40.37	+12 0.4	1.571	2.544	5.7	20.2
3 22	10 32.06	+12 38.0	1.601	2.531	10.2	20.4
4 1	10 25.72	+13 0.8	1.655	2.518	14.2	20.6

376670 2013 QE_{15} 3 1.5 215°.00 0°.2/ 1.3 17

1 22	11 20.73	+ 7 36.8	2.118	2.881	14.5	21.0
2 1	11 15.91	+ 7 32.5	2.018	2.876	11.5	20.8
2 11	11 8.75	+ 7 37.6	1.941	2.871	8.0	20.6
2 21	10 59.73	+ 7 49.1	1.891	2.866	4.0	20.3
3 2	10 49.65	+ 8 3.4	1.870	2.861	0.4	20.0
3 12	10 39.54	+ 8 16.0	1.879	2.855	4.6	20.3
3 22	10 30.40	+ 8 23.2	1.916	2.849	8.6	20.6
4 1	10 23.07	+ 8 22.3	1.980	2.842	12.2	20.8

21955 1999 VW_{178} 3 1.5 311°.50 1°.5/ 3.1 18 R

1 22	11 9.30	− 1 53.3	1.878	2.637	16.2	17.9
2 1	11 7.28	− 1 10.6	1.775	2.627	13.2	17.7
2 11	11 3.03	− 0 4.8	1.693	2.616	9.5	17.5
2 21	10 56.96	+ 1 21.5	1.636	2.606	5.4	17.2
3 2	10 49.79	+ 3 2.8	1.606	2.596	1.6	16.9
3 12	10 42.52	+ 4 50.2	1.605	2.586	4.5	17.1
3 22	10 36.11	+ 6 34.2	1.632	2.576	8.9	17.3
4 1	10 31.44	+ 8 6.6	1.684	2.567	12.9	17.5

155357 6096 *P–L* 3 1.5 160°.24 2°.0/28.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 19.47	+12 13.5	2.399	3.170	12.7	20.9
2 1	11 14.52	+12 37.6	2.311	3.177	10.0	20.7
2 11	11 7.54	+13 8.2	2.248	3.182	6.8	20.5
2 21	10 59.02	+13 41.0	2.212	3.187	3.5	20.3
3 2	10 49.69	+14 11.3	2.206	3.192	2.2	20.2
3 12	10 40.45	+14 34.5	2.230	3.196	5.0	20.4
3 22	10 32.13	+14 47.4	2.284	3.199	8.4	20.6
4 1	10 25.41	+14 48.5	2.363	3.202	11.3	20.8

250153 2002 SU_{20} 3 1.5 94°.99 0°.5/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.75	+ 5 39.1	1.771	2.548	16.3	21.2
2 1	11 13.03	+ 6 10.5	1.696	2.562	12.9	20.9
2 11	11 6.84	+ 6 57.0	1.642	2.576	8.8	20.7
2 21	10 58.76	+ 7 53.8	1.614	2.590	4.3	20.5
3 2	10 49.71	+ 8 54.4	1.613	2.604	0.7	20.2
3 12	10 40.82	+ 9 51.4	1.641	2.617	5.1	20.6
3 22	10 33.12	+10 38.5	1.697	2.631	9.4	20.9
4 1	10 27.43	+11 11.8	1.776	2.644	13.2	21.1

109348 2001 QG_{152} 3 1.5 79°.55 1°.5/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.03	− 1 55.7	1.806	2.563	16.8	20.1
2 1	11 9.35	− 1 10.9	1.723	2.573	13.6	19.9
2 11	11 4.34	− 0 3.5	1.661	2.582	9.8	19.7
2 21	10 57.54	+ 1 23.2	1.623	2.592	5.4	19.5
3 2	10 49.77	+ 3 2.6	1.612	2.602	1.6	19.2
3 12	10 42.07	+ 4 45.5	1.631	2.612	4.5	19.4
3 22	10 35.41	+ 6 22.9	1.678	2.621	8.8	19.7
4 1	10 30.59	+ 7 47.2	1.750	2.631	12.6	20.0

70221 1999 RZ_{44} 3 1.5 147°.51 0°.4/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.05	+ 3 5.4	2.135	2.887	14.7	20.7
2 1	11 13.65	+ 3 32.6	2.048	2.899	11.7	20.5
2 11	11 7.07	+ 4 14.3	1.984	2.910	8.2	20.3
2 21	10 58.83	+ 5 7.3	1.946	2.919	4.2	20.0
3 2	10 49.71	+ 6 6.5	1.938	2.929	0.4	19.8
3 12	10 40.66	+ 7 5.6	1.959	2.937	4.2	20.1
3 22	10 32.59	+ 7 58.9	2.010	2.945	8.1	20.3
4 1	10 26.23	+ 8 42.0	2.087	2.952	11.6	20.6

60918 2000 JZ_{38} 3 1.5 292°.61 2°.9/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.93	− 1 7.6	1.460	2.231	19.5	20.0
2 1	11 12.48	− 1 16.1	1.365	2.222	16.1	19.8
2 11	11 7.07	− 1 2.3	1.290	2.213	11.9	19.5
2 21	10 59.15	− 0 26.8	1.236	2.204	7.1	19.2
3 2	10 49.68	+ 0 26.7	1.208	2.195	3.1	18.9
3 12	10 40.04	+ 1 30.6	1.205	2.186	5.6	19.1
3 22	10 31.61	+ 2 35.7	1.228	2.177	10.6	19.3
4 1	10 25.55	+ 3 33.5	1.274	2.169	15.3	19.6

270380 2002 AH_{56} 3 1.5 41°.06 2°.4/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.88	+ 8 35.2	1.611	2.414	16.6	20.3
2 1	11 9.50	+ 9 43.2	1.541	2.424	13.0	20.1
2 11	11 4.58	+11 7.1	1.492	2.435	8.7	19.9
2 21	10 57.69	+12 39.3	1.468	2.446	4.3	19.7
3 2	10 49.77	+14 10.3	1.471	2.458	2.8	19.6
3 12	10 42.00	+15 30.5	1.502	2.470	6.7	19.8
3 22	10 35.43	+16 32.7	1.558	2.482	10.9	20.1
4 1	10 30.92	+17 13.3	1.638	2.495	14.6	20.4

464227 2015 BH_{286} 3 1.5 121°.61 4°.5/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.86	− 8 34.2	2.208	2.911	15.6	21.2
2 1	11 10.36	− 8 41.7	2.116	2.920	13.1	21.0
2 11	11 4.83	− 8 29.2	2.044	2.929	10.2	20.8
2 21	10 57.73	− 7 56.6	1.996	2.938	7.2	20.7
3 2	10 49.77	− 7 6.1	1.976	2.946	4.8	20.5
3 12	10 41.84	− 6 2.4	1.983	2.954	5.0	20.6
3 22	10 34.77	− 4 51.8	2.020	2.962	7.6	20.7
4 1	10 29.28	− 3 41.1	2.082	2.970	10.6	20.9

17527 1993 FC_{14} 3 1.5 234°.89 4°.3/25.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.50	+22 0.1	2.878	3.661	10.5	19.3
2 1	11 12.83	+22 43.3	2.781	3.649	8.4	19.1
2 11	11 6.33	+23 27.4	2.708	3.635	6.2	18.9
2 21	10 58.43	+24 7.2	2.664	3.622	4.5	18.8
3 2	10 49.74	+24 37.8	2.650	3.607	4.7	18.8
3 12	10 41.04	+24 55.1	2.665	3.593	6.6	18.9
3 22	10 33.07	+24 57.0	2.708	3.578	9.0	19.0
4 1	10 26.46	+24 43.2	2.776	3.562	11.3	19.2

452481 2004 CG_{58} 3 1.5 353°.85 9°.5/20.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.00	+23 8.5	1.395	2.231	16.9	20.3
2 1	11 9.65	+25 29.3	1.332	2.228	13.7	20.0
2 11	11 5.19	+27 55.8	1.291	2.225	10.8	19.9
2 21	10 58.19	+30 13.1	1.274	2.223	9.5	19.8
3 2	10 49.75	+32 5.8	1.283	2.222	10.8	19.9
3 12	10 41.35	+33 22.8	1.315	2.221	13.7	20.0
3 22	10 34.43	+33 59.9	1.368	2.221	17.0	20.2
4 1	10 30.07	+33 59.0	1.439	2.222	20.0	20.4

279159 2009 SJ_{131} 3 1.5 134°.29 4°.5/26.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 18.68	+17 59.3	1.937	2.734	14.4	20.6
2 1	11 14.51	+18 44.8	1.858	2.737	11.3	20.4
2 11	11 7.85	+19 34.8	1.802	2.739	8.0	20.2
2 21	10 59.28	+20 22.4	1.772	2.741	5.1	20.1
3 2	10 49.70	+21 0.3	1.771	2.744	4.9	20.0
3 12	10 40.25	+21 22.6	1.797	2.746	7.7	20.2
3 22	10 31.96	+21 26.3	1.850	2.748	11.0	20.4
4 1	10 25.68	+21 11.1	1.926	2.750	14.1	20.6

330675 2008 HK_{4} 3 1.5 322°.99 8°.2/ 8.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 8.95	−12 57.7	1.555	2.274	20.6	20.4
2 1	11 7.71	−13 39.1	1.451	2.257	18.0	20.1
2 11	11 3.77	−13 52.5	1.364	2.240	14.9	19.9
2 21	10 57.53	−13 33.6	1.296	2.224	11.5	19.6
3 2	10 49.79	−12 41.1	1.250	2.208	8.8	19.4
3 12	10 41.76	−11 18.8	1.229	2.193	8.4	19.3
3 22	10 34.74	− 9 35.9	1.232	2.179	10.9	19.4
4 1	10 29.85	− 7 44.3	1.258	2.166	14.6	19.6

350046 2010 NV_{117} 3 1.5 269°.47 9°.7/10.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.35	−22 40.0	2.705	3.279	15.4	20.9
2 1	11 15.54	−24 18.4	2.590	3.268	14.1	20.7
2 11	11 8.56	−25 40.0	2.494	3.257	12.6	20.6
2 21	10 59.73	−26 40.2	2.419	3.246	11.1	20.5
3 2	10 49.68	−27 15.6	2.369	3.235	10.0	20.4
3 12	10 39.28	−27 25.0	2.345	3.224	9.7	20.3
3 22	10 29.47	−27 10.5	2.346	3.212	10.3	20.3
4 1	10 21.12	−26 36.9	2.373	3.201	11.6	20.4

252205 2001 FX_{118} 3 1.5 357°.80 6°.4/ 5.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.85	− 6 12.4	1.426	2.178	20.8	20.2
2 1	11 12.42	− 7 9.2	1.340	2.176	17.6	19.9
2 11	11 7.01	− 7 43.3	1.272	2.174	13.8	19.7
2 21	10 59.11	− 7 52.0	1.224	2.173	9.8	19.5
3 2	10 49.71	− 7 35.5	1.200	2.173	6.7	19.3
3 12	10 40.23	− 6 58.1	1.201	2.173	7.2	19.3
3 22	10 32.03	− 6 7.5	1.226	2.175	10.7	19.5
4 1	10 26.26	− 5 13.0	1.274	2.176	14.8	19.7

248711 2006 OC_{17} 3 1.5 201°.80 1°.1/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.23	+ 1 39.8	2.428	3.165	13.5	22.3
2 1	11 13.67	+ 1 52.3	2.320	3.160	10.9	22.1
2 11	11 7.08	+ 2 18.1	2.236	3.154	7.8	21.9
2 21	10 58.88	+ 2 55.3	2.178	3.147	4.3	21.7
3 2	10 49.74	+ 3 40.3	2.149	3.139	1.1	21.4
3 12	10 40.52	+ 4 28.4	2.152	3.130	3.8	21.6
3 22	10 32.05	+ 5 14.4	2.184	3.121	7.5	21.8
4 1	10 25.09	+ 5 54.1	2.244	3.110	10.8	22.0

520955 2014 YX_{58} 3 1.5 266°.29 0°.1/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.55	+ 6 41.5	1.951	2.720	15.3	21.4
2 1	11 15.30	+ 6 33.8	1.847	2.708	12.3	21.1
2 11	11 8.54	+ 6 36.7	1.765	2.696	8.6	20.9
2 21	10 59.73	+ 6 47.7	1.708	2.683	4.4	20.6
3 2	10 49.69	+ 7 2.9	1.680	2.671	0.2	20.2
3 12	10 39.53	+ 7 17.7	1.681	2.658	4.8	20.6
3 22	10 30.35	+ 7 27.8	1.709	2.646	9.2	20.8
4 1	10 23.08	+ 7 29.7	1.763	2.633	13.1	21.0

495402 2014 QW_{353} 3 1.5 231°.43 0°.3/ 1.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.24	+ 4 25.7	1.870	2.640	15.8	22.9
2 1	11 12.83	+ 5 3.3	1.768	2.630	12.7	22.7
2 11	11 6.92	+ 5 58.2	1.687	2.619	8.8	22.4
2 21	10 58.95	+ 7 6.6	1.631	2.607	4.4	22.1
3 2	10 49.74	+ 8 22.3	1.604	2.595	0.5	21.8
3 12	10 40.37	+ 9 37.0	1.606	2.582	5.2	22.1
3 22	10 31.96	+10 43.2	1.635	2.569	9.8	22.4
4 1	10 25.45	+11 35.2	1.689	2.555	13.8	22.6

186871 2004 HE_{41} 3 1.5 104°.97 1°.2/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.54	+ 7 51.8	1.838	2.620	15.6	21.0
2 1	11 12.84	+ 8 25.7	1.759	2.630	12.3	20.8
2 11	11 6.72	+ 9 12.5	1.702	2.639	8.4	20.5
2 21	10 58.73	+10 7.3	1.671	2.648	4.1	20.3
3 2	10 49.76	+11 3.4	1.668	2.657	1.4	20.1
3 12	10 40.90	+11 54.0	1.693	2.666	5.4	20.4
3 22	10 33.18	+12 33.3	1.745	2.675	9.6	20.7
4 1	10 27.40	+12 58.1	1.822	2.683	13.2	20.9

114250 2002 WJ_{14} 3 1.5 164°.78 2°.4/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.45	+ 9 1.8	1.739	2.525	16.3	20.7
2 1	11 14.61	+10 5.5	1.656	2.530	12.8	20.5
2 11	11 8.10	+11 24.3	1.596	2.535	8.7	20.2
2 21	10 59.49	+12 51.3	1.561	2.539	4.4	20.0
3 2	10 49.72	+14 17.6	1.555	2.542	2.8	19.9
3 12	10 39.98	+15 33.8	1.578	2.544	6.6	20.1
3 22	10 31.45	+16 33.1	1.628	2.546	10.9	20.4
4 1	10 25.04	+17 11.8	1.701	2.547	14.7	20.6

126129 2001 YN_{120} 3 1.5 3°.17 7°.8/22.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 14.33	+23 26.1	1.760	2.577	14.8	19.6
2 1	11 11.54	+25 14.1	1.692	2.577	11.9	19.4
2 11	11 6.09	+27 4.8	1.647	2.576	9.2	19.3
2 21	10 58.51	+28 47.6	1.628	2.577	7.8	19.2
3 2	10 49.77	+30 11.4	1.635	2.577	8.6	19.2
3 12	10 41.10	+31 8.2	1.669	2.577	11.1	19.4
3 22	10 33.66	+31 34.7	1.725	2.578	14.0	19.5
4 1	10 28.38	+31 31.8	1.802	2.579	16.8	19.7

325303 2008 HV_{45} 3 1.5 203°.21 4°.1/25.9 17

1 22	11 16.95	+17 19.2	2.389	3.177	12.3	21.6
2 1	11 12.76	+18 21.3	2.298	3.172	9.7	21.4
2 11	11 6.48	+19 28.6	2.232	3.167	6.8	21.3
2 21	10 58.59	+20 35.3	2.194	3.161	4.5	21.1
3 2	10 49.77	+21 34.4	2.185	3.155	4.5	21.1
3 12	10 40.95	+22 20.1	2.206	3.148	6.9	21.2
3 22	10 32.97	+22 48.9	2.254	3.140	9.8	21.4
4 1	10 26.59	+22 59.5	2.327	3.132	12.6	21.6

213465 2002 CL_{234} 3 1.5 288°.77 4°.0/25.2 18

1 22	11 10.30	+15 41.5	2.411	3.208	11.9	20.3
2 1	11 7.56	+17 10.0	2.319	3.200	9.3	20.1
2 11	11 2.94	+18 46.7	2.253	3.192	6.5	19.9
2 21	10 56.83	+20 24.9	2.215	3.183	4.3	19.7
3 2	10 49.86	+21 57.0	2.207	3.175	4.6	19.7
3 12	10 42.84	+23 15.9	2.228	3.167	7.0	19.9
3 22	10 36.54	+24 16.9	2.276	3.159	9.9	20.0
4 1	10 31.66	+24 57.6	2.348	3.151	12.6	20.2

520101 2013 YK_{154} 3 1.5 258°.35 1°.9/ 3.4 17

1 22	11 14.70	+ 0 30.1	2.495	3.233	13.2	21.7
2 1	11 10.82	+ 0 18.5	2.391	3.229	10.7	21.5
2 11	11 5.07	+ 0 18.9	2.309	3.224	7.8	21.3
2 21	10 57.87	+ 0 30.2	2.254	3.219	4.6	21.1
3 2	10 49.83	+ 0 50.1	2.227	3.214	2.0	20.9
3 12	10 41.74	+ 1 15.1	2.230	3.209	3.7	21.0
3 22	10 34.37	+ 1 41.3	2.263	3.204	7.0	21.2
4 1	10 28.39	+ 2 4.8	2.321	3.199	10.1	21.4

209723 2005 EK_{141} 3 1.5 274°.22 0°.7/29.9 17

1 22	11 14.88	+ 5 42.0	1.699	2.483	16.6	21.1
2 1	11 12.09	+ 6 15.9	1.595	2.466	13.3	20.8
2 11	11 6.63	+ 7 7.5	1.512	2.448	9.3	20.6
2 21	10 58.91	+ 8 12.8	1.453	2.430	4.6	20.2
3 2	10 49.76	+ 9 25.0	1.421	2.412	0.9	19.9
3 12	10 40.38	+10 35.5	1.418	2.394	5.8	20.2
3 22	10 32.00	+11 36.0	1.440	2.375	10.7	20.4
4 1	10 25.68	+12 20.7	1.487	2.357	15.1	20.7

116311 2003 YQ_{65} 3 1.5 19°.21 0°.1/ 1.5 18

1 22	11 12.44	+ 5 5.7	1.922	2.701	15.2	19.6
2 1	11 9.55	+ 5 26.8	1.837	2.704	12.1	19.4
2 11	11 4.44	+ 6 1.9	1.774	2.708	8.3	19.2
2 21	10 57.61	+ 6 47.5	1.735	2.712	4.2	18.9
3 2	10 49.84	+ 7 38.3	1.725	2.716	0.3	18.6
3 12	10 42.12	+ 8 27.9	1.743	2.721	4.6	19.0
3 22	10 35.38	+ 9 10.6	1.788	2.726	8.7	19.2
4 1	10 30.40	+ 9 42.1	1.857	2.731	12.3	19.5

272561 2005 UY_{478} 3 1.5 267°.22 4°.4/26.6 18

1 22	11 17.69	+16 51.1	1.953	2.750	14.3	20.3
2 1	11 13.94	+17 39.8	1.856	2.735	11.3	20.0
2 11	11 7.66	+18 35.1	1.782	2.720	8.0	19.8
2 21	10 59.32	+19 30.5	1.734	2.705	5.0	19.6
3 2	10 49.75	+20 18.2	1.714	2.689	4.8	19.5
3 12	10 40.10	+20 51.2	1.722	2.673	7.7	19.7
3 22	10 31.46	+21 5.5	1.757	2.657	11.3	19.8
4 1	10 24.77	+20 59.7	1.814	2.641	14.7	20.0

374092 2004 RV_{230} 3 1.5 162°.48 0°.8/ 2.5 16

1 22	11 14.98	+ 1 49.2	2.526	3.268	12.9	22.8
2 1	11 10.94	+ 2 11.9	2.430	3.274	10.3	22.7
2 11	11 5.09	+ 2 47.7	2.359	3.280	7.3	22.5
2 21	10 57.84	+ 3 34.1	2.314	3.284	3.9	22.3
3 2	10 49.84	+ 4 27.3	2.298	3.289	0.8	22.0
3 12	10 41.86	+ 5 22.1	2.314	3.292	3.6	22.3
3 22	10 34.64	+ 6 13.8	2.359	3.295	7.0	22.5
4 1	10 28.80	+ 6 58.2	2.431	3.298	10.1	22.7

400313 2007 TH_{274} 3 1.5 93°.98 1°.5/29.4 18

1 22	11 20.20	+ 8 19.7	1.659	2.442	17.0	21.5
2 1	11 15.85	+ 8 52.5	1.591	2.462	13.4	21.3
2 11	11 8.82	+ 9 38.4	1.546	2.483	9.1	21.1
2 21	10 59.77	+10 31.7	1.525	2.502	4.4	20.9
3 2	10 49.75	+11 25.1	1.532	2.522	1.7	20.7
3 12	10 40.00	+12 11.2	1.568	2.541	5.8	21.1
3 22	10 31.64	+12 44.6	1.630	2.559	10.1	21.4
4 1	10 25.51	+13 2.6	1.717	2.577	13.9	21.6

425272 2009 WQ_{128} 3 1.5 130°.25 3°.7/26.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 16.22	+15 7.8	2.023	2.818	14.0	21.0
2 1	11 12.45	+16 0.3	1.944	2.822	10.9	20.8
2 11	11 6.39	+16 59.8	1.887	2.826	7.5	20.6
2 21	10 58.57	+17 59.9	1.858	2.830	4.5	20.4
3 2	10 49.81	+18 53.4	1.856	2.834	4.1	20.4
3 12	10 41.14	+19 33.9	1.884	2.838	6.9	20.6
3 22	10 33.51	+19 57.7	1.938	2.841	10.3	20.8
4 1	10 27.71	+20 3.2	2.015	2.845	13.4	21.0

465420 2008 OQ_{20} 3 1.5 218°.84 0°.1/ 1.5 17

1 22	11 14.92	+ 4 40.1	2.500	3.254	12.7	23.3
2 1	11 11.04	+ 5 8.8	2.392	3.245	10.1	23.1
2 11	11 5.27	+ 5 49.8	2.308	3.236	7.0	22.9
2 21	10 57.99	+ 6 40.0	2.251	3.226	3.5	22.6
3 2	10 49.84	+ 7 35.2	2.224	3.215	0.2	22.3
3 12	10 41.60	+ 8 30.0	2.227	3.204	4.0	22.6
3 22	10 34.07	+ 9 19.6	2.260	3.192	7.5	22.8
4 1	10 27.93	+ 9 59.9	2.319	3.179	10.8	23.0

213793 2003 FT_{43} 3 1.5 239°.81 1°.4/28.9 17

1 22	11 13.40	+10 26.0	2.691	3.464	11.4	20.7
2 1	11 9.68	+10 54.0	2.590	3.456	9.0	20.5
2 11	11 4.22	+11 29.5	2.513	3.449	6.1	20.3
2 21	10 57.42	+12 9.0	2.464	3.441	3.0	20.1
3 2	10 49.88	+12 48.2	2.445	3.433	1.6	19.9
3 12	10 42.30	+13 22.6	2.456	3.425	4.4	20.1
3 22	10 35.41	+13 48.8	2.496	3.416	7.5	20.3
4 1	10 29.80	+14 4.4	2.562	3.408	10.3	20.5

93411 2000 SY_{298} 3 1.5 100°.01 3°.8/ 4.7 18

1 22	11 17.04	− 4 35.0	1.658	2.399	18.7	19.5
2 1	11 13.52	− 4 42.3	1.578	2.412	15.4	19.3
2 11	11 7.36	− 4 26.9	1.517	2.425	11.6	19.0
2 21	10 59.13	− 3 49.4	1.479	2.437	7.4	18.8
3 2	10 49.79	− 2 53.6	1.468	2.450	4.1	18.6
3 12	10 40.55	− 1 46.2	1.484	2.462	5.3	18.7
3 22	10 32.54	− 0 35.8	1.527	2.473	9.2	19.0
4 1	10 26.67	+ 0 29.8	1.594	2.485	13.1	19.3

253157 2002 VN_{109} 3 1.5 138°.87 3°.7/ 5.2 18

1 22	11 17.13	− 5 48.0	2.179	2.891	15.5	21.1
2 1	11 12.94	− 5 55.6	2.089	2.903	12.9	21.0
2 11	11 6.62	− 5 44.8	2.019	2.914	9.8	20.8
2 21	10 58.67	− 5 16.0	1.974	2.924	6.5	20.6
3 2	10 49.83	− 4 31.6	1.957	2.934	3.9	20.5
3 12	10 41.02	− 3 36.6	1.969	2.944	4.6	20.5
3 22	10 33.15	− 2 36.8	2.010	2.952	7.6	20.7
4 1	10 26.93	− 1 38.5	2.078	2.960	10.8	20.9

174473 2003 AX_{16} 3 1.5 81°.13 1°.8/ 3.4 18

1 22	11 13.80	− 0 16.8	2.309	3.051	14.0	20.9
2 1	11 10.13	− 0 11.6	2.226	3.066	11.3	20.8
2 11	11 4.57	+ 0 8.0	2.164	3.080	8.2	20.6
2 21	10 57.59	+ 0 40.1	2.128	3.094	4.7	20.4
3 2	10 49.88	+ 1 21.4	2.121	3.108	1.9	20.2
3 12	10 42.26	+ 2 7.0	2.143	3.122	3.7	20.4
3 22	10 35.49	+ 2 52.0	2.194	3.136	7.1	20.6
4 1	10 30.21	+ 3 31.8	2.271	3.150	10.2	20.8

298965 2004 VL_{17} 3 1.5 62°.67 2°.5/28.7 18

1 22	11 19.30	+ 9 55.2	1.352	2.157	19.1	21.2
2 1	11 15.67	+10 36.7	1.295	2.179	14.9	21.0
2 11	11 8.95	+11 32.1	1.259	2.201	10.1	20.8
2 21	10 59.90	+12 34.0	1.246	2.224	5.0	20.5
3 2	10 49.77	+13 32.7	1.259	2.246	2.8	20.5
3 12	10 40.04	+14 19.6	1.298	2.269	7.1	20.8
3 22	10 32.00	+14 48.9	1.363	2.292	11.7	21.1
4 1	10 26.56	+14 58.6	1.450	2.315	15.7	21.4

212574 2006 SO_{111} 3 1.5 175°.78 3°.3/ 5.1 18

1 22	11 13.99	− 4 58.1	2.677	3.386	13.0	20.3
2 1	11 10.12	− 5 12.7	2.575	3.387	10.8	20.2
2 11	11 4.51	− 5 13.1	2.494	3.388	8.3	20.0
2 21	10 57.58	− 4 59.7	2.439	3.388	5.5	19.8
3 2	10 49.88	− 4 34.0	2.412	3.389	3.4	19.7
3 12	10 42.16	− 3 59.3	2.416	3.389	4.0	19.7
3 22	10 35.12	− 3 19.6	2.448	3.389	6.5	19.9
4 1	10 29.36	− 2 39.6	2.508	3.389	9.3	20.1

495880 2004 RS_{188} 3 1.5 156°.72 1°.4/ 3.2 16

1 22	11 17.15	+ 0 25.4	2.809	3.534	12.1	22.8
2 1	11 12.40	+ 0 30.9	2.713	3.543	9.8	22.7
2 11	11 5.97	+ 0 48.0	2.640	3.552	7.0	22.5
2 21	10 58.26	+ 1 15.0	2.595	3.560	4.0	22.3
3 2	10 49.87	+ 1 49.3	2.580	3.568	1.5	22.1
3 12	10 41.51	+ 2 27.0	2.596	3.574	3.3	22.3
3 22	10 33.86	+ 3 4.2	2.643	3.580	6.3	22.5
4 1	10 27.50	+ 3 37.5	2.718	3.586	9.1	22.7

415218 2012 HC_{56} 3 1.5 347.°78 7.°4/ 8.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 9.82	−14 4.7	1.664	2.369	19.9	21.1
2 1	11 8.08	−14 24.0	1.570	2.366	17.3	20.9
2 11	11 3.82	−14 13.6	1.492	2.363	14.2	20.6
2 21	10 57.48	−13 30.9	1.434	2.360	10.8	20.4
3 2	10 49.90	−12 16.4	1.400	2.358	8.1	20.3
3 12	10 42.23	−10 35.9	1.392	2.356	7.6	20.2
3 22	10 35.61	− 8 39.5	1.409	2.355	9.8	20.3
4 1	10 30.99	− 6 39.0	1.450	2.354	13.3	20.5

454102 2013 BM_{80} 3 1.5 9.°74 3.°5/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.61	+10 59.1	1.402	2.213	18.2	21.0
2 1	11 13.05	+11 58.9	1.326	2.213	14.3	20.7
2 11	11 7.42	+13 14.3	1.269	2.214	9.8	20.5
2 21	10 59.31	+14 37.3	1.237	2.214	5.2	20.2
3 2	10 49.81	+15 57.2	1.230	2.215	3.9	20.1
3 12	10 40.35	+17 3.2	1.250	2.215	8.1	20.4
3 22	10 32.33	+17 48.0	1.294	2.216	12.8	20.6
4 1	10 26.81	+18 8.4	1.359	2.217	17.0	20.9

399316 1996 XV_{17} 3 1.5 125.°57 0.°1/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.21	+ 4 29.2	1.923	2.685	15.7	21.9
2 1	11 14.78	+ 4 54.4	1.844	2.701	12.5	21.7
2 11	11 7.97	+ 5 34.1	1.787	2.716	8.6	21.5
2 21	10 59.36	+ 6 24.5	1.756	2.730	4.3	21.3
3 2	10 49.82	+ 7 19.9	1.753	2.744	0.2	21.0
3 12	10 40.41	+ 8 13.6	1.780	2.758	4.7	21.4
3 22	10 32.15	+ 8 59.9	1.836	2.770	8.8	21.6
4 1	10 25.80	+ 9 34.5	1.917	2.782	12.4	21.9

52846 1998 RL_{67} 3 1.5 153.°13 1.°7/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.06	+ 0 27.1	1.728	2.483	17.5	20.2
2 1	11 15.08	+ 0 36.2	1.641	2.490	14.2	20.0
2 11	11 8.45	+ 1 4.1	1.575	2.497	10.2	19.7
2 21	10 59.71	+ 1 48.7	1.533	2.502	5.7	19.5
3 2	10 49.80	+ 2 45.1	1.518	2.508	1.8	19.2
3 12	10 39.92	+ 3 46.0	1.532	2.512	4.8	19.4
3 22	10 31.24	+ 4 44.0	1.574	2.516	9.3	19.7
4 1	10 24.67	+ 5 33.0	1.640	2.519	13.4	20.0

428887 2008 UG_{328} 3 1.5 36.°68 4.°0/ 5.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.15	− 5 25.5	1.983	2.714	16.3	20.7
2 1	11 10.11	− 5 38.6	1.892	2.717	13.6	20.5
2 11	11 4.85	− 5 32.2	1.820	2.720	10.4	20.3
2 21	10 57.87	− 5 6.5	1.771	2.724	6.9	20.1
3 2	10 49.90	− 4 23.9	1.750	2.728	4.2	20.0
3 12	10 41.92	− 3 29.3	1.756	2.732	4.9	20.0
3 22	10 34.88	− 2 29.4	1.789	2.736	8.1	20.2
4 1	10 29.55	− 1 30.7	1.849	2.740	11.5	20.4

179884 2002 UN_{16} 3 1.5 43.°72 2.°5/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.29	+ 8 27.5	1.404	2.213	18.3	19.3
2 1	11 10.92	+ 9 31.3	1.343	2.230	14.3	19.1
2 11	11 5.71	+10 51.9	1.303	2.247	9.6	18.9
2 21	10 58.34	+12 21.1	1.286	2.265	4.7	18.6
3 2	10 49.88	+13 48.4	1.296	2.283	2.9	18.6
3 12	10 41.68	+15 3.4	1.333	2.302	7.1	18.9
3 22	10 34.94	+15 58.9	1.394	2.322	11.6	19.2
4 1	10 30.51	+16 31.6	1.477	2.342	15.5	19.4

57532 2001 TA 3 1.5 159.°42 4.°6/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.28	− 8 29.4	2.402	3.092	14.8	18.9
2 1	11 12.92	− 8 53.4	2.304	3.098	12.5	18.7
2 11	11 6.57	− 9 0.0	2.226	3.104	9.8	18.5
2 21	10 58.66	− 8 48.6	2.173	3.109	7.0	18.4
3 2	10 49.87	− 8 20.4	2.148	3.114	4.9	18.2
3 12	10 41.06	− 7 38.8	2.152	3.118	5.1	18.3
3 22	10 33.05	− 6 48.8	2.185	3.122	7.4	18.4
4 1	10 26.57	− 5 56.0	2.245	3.125	10.2	18.6

353449 2011 QP_{98} 3 1.5 164.°84 3.°8/25.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.13	+18 50.1	2.912	3.700	10.3	21.5
2 1	11 9.34	+19 55.8	2.831	3.704	8.1	21.4
2 11	11 3.91	+21 4.7	2.775	3.708	5.8	21.2
2 21	10 57.26	+22 11.5	2.748	3.712	4.0	21.1
3 2	10 49.95	+23 10.7	2.752	3.715	4.2	21.1
3 12	10 42.67	+23 57.9	2.785	3.717	6.1	21.3
3 22	10 36.07	+24 30.2	2.845	3.719	8.4	21.4
4 1	10 30.72	+24 46.6	2.931	3.721	10.6	21.6

364638 2007 TT_{106} 3 1.5 101.°14 2.°5/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.67	− 2 17.6	1.723	2.472	17.8	21.4
2 1	11 13.09	− 2 4.2	1.645	2.488	14.5	21.2
2 11	11 6.98	− 1 29.4	1.587	2.503	10.6	21.0
2 21	10 58.94	− 0 35.4	1.553	2.519	6.2	20.7
3 2	10 49.87	+ 0 32.7	1.547	2.534	2.6	20.5
3 12	10 40.93	+ 1 47.3	1.568	2.548	4.7	20.7
3 22	10 33.20	+ 3 0.1	1.617	2.562	8.9	21.0
4 1	10 27.50	+ 4 4.2	1.691	2.576	12.8	21.2

88835 2001 SX_{171} 3 1.5 125.°50 2.°3/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 16.16	+10 33.0	1.869	2.659	15.2	20.0
2 1	11 12.60	+11 15.0	1.787	2.662	11.9	19.8
2 11	11 6.62	+12 8.0	1.727	2.666	8.1	19.6
2 21	10 58.76	+13 6.6	1.693	2.670	4.1	19.3
3 2	10 49.88	+14 3.6	1.687	2.673	2.5	19.2
3 12	10 41.06	+14 51.9	1.709	2.677	6.1	19.5
3 22	10 33.34	+15 26.5	1.758	2.680	10.0	19.7
4 1	10 27.54	+15 44.5	1.831	2.683	13.6	19.9

343053 2009 BO_{182} 3 1.5 131.°78 1.°1/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.58	+ 7 15.5	2.488	3.257	12.4	21.0
2 1	11 9.11	+ 8 5.2	2.402	3.266	9.7	20.8
2 11	11 3.86	+ 9 5.8	2.339	3.274	6.6	20.6
2 21	10 57.27	+10 13.2	2.305	3.282	3.2	20.4
3 2	10 49.96	+11 21.9	2.300	3.289	1.3	20.3
3 12	10 42.70	+12 26.1	2.326	3.297	4.4	20.5
3 22	10 36.20	+13 21.0	2.380	3.304	7.7	20.7
4 1	10 31.07	+14 3.5	2.461	3.311	10.6	20.9

417024 2005 UH_{83} 3 1.5 54.°05 3.°2/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.24	+13 32.2	1.800	2.596	15.4	21.3
2 1	11 13.57	+14 9.6	1.719	2.599	12.1	21.1
2 11	11 7.35	+14 55.5	1.661	2.601	8.3	20.9
2 21	10 59.14	+15 43.7	1.629	2.604	4.5	20.6
3 2	10 49.87	+16 26.9	1.624	2.607	3.5	20.6
3 12	10 40.70	+16 58.7	1.647	2.610	6.8	20.8
3 22	10 32.70	+17 14.6	1.696	2.612	10.7	21.0
4 1	10 26.75	+17 13.2	1.769	2.615	14.2	21.2

119458 2001 TJ_{192} 3 1.5 232.°93 2.°5/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.76	− 2 5.8	2.213	2.945	14.8	20.7
2 1	11 12.05	− 2 5.0	2.102	2.934	12.2	20.5
2 11	11 6.18	− 1 47.6	2.012	2.922	9.0	20.3
2 21	10 58.57	− 1 14.6	1.948	2.910	5.5	20.0
3 2	10 49.90	− 0 28.8	1.912	2.897	2.6	19.8
3 12	10 41.08	+ 0 25.1	1.906	2.884	4.2	19.9
3 22	10 33.03	+ 1 21.0	1.928	2.870	7.9	20.1
4 1	10 26.57	+ 2 13.4	1.976	2.856	11.4	20.3

28856 2000 JZ_{58} 3 1.5 90.°77 3.°3/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.78	+12 24.2	1.895	2.686	14.9	18.0
2 1	11 12.89	+13 35.6	1.831	2.709	11.5	17.8
2 11	11 6.66	+14 56.7	1.791	2.731	7.8	17.6
2 21	10 58.70	+16 19.8	1.778	2.752	4.3	17.4
3 2	10 49.90	+17 36.8	1.793	2.774	3.7	17.4
3 12	10 41.32	+18 40.1	1.837	2.794	6.7	17.7
3 22	10 33.92	+19 25.2	1.908	2.815	10.2	17.9
4 1	10 28.43	+19 50.2	2.003	2.835	13.3	18.1

17562 1994 BG_{4} 3 1.5 308.°02 4.°4/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.40	− 3 43.5	1.551	2.305	19.2	17.7
2 1	11 12.70	− 4 12.5	1.456	2.298	16.1	17.5
2 11	11 7.16	− 4 20.2	1.380	2.291	12.2	17.2
2 21	10 59.24	− 4 5.8	1.326	2.284	8.0	17.0
3 2	10 49.86	− 3 31.0	1.296	2.278	4.7	16.8
3 12	10 40.33	− 2 41.3	1.293	2.271	5.9	16.8
3 22	10 31.95	− 1 44.8	1.316	2.265	10.1	17.0
4 1	10 25.82	− 0 49.7	1.362	2.259	14.4	17.3

467026 2016 CX_{188} 3 1.5 53.°61 1.°8/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 23.17	+11 56.1	1.574	2.364	17.5	21.3
2 1	11 18.42	+11 51.7	1.502	2.377	13.8	21.1
2 11	11 10.73	+11 55.4	1.452	2.390	9.4	20.8
2 21	11 0.82	+12 2.2	1.426	2.403	4.7	20.6
3 2	10 49.80	+12 6.6	1.428	2.416	2.0	20.4
3 12	10 39.07	+12 3.7	1.457	2.430	6.1	20.7
3 22	10 29.89	+11 50.5	1.513	2.444	10.6	21.0
4 1	10 23.16	+11 25.7	1.593	2.458	14.5	21.3

195550 2002 JB_{67} 3 1.5 273.°03 2.°4/ 3.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.28	− 2 32.1	2.078	2.821	15.3	20.1
2 1	11 9.40	− 2 21.3	1.976	2.814	12.6	19.9
2 11	11 4.39	− 1 52.0	1.895	2.808	9.3	19.6
2 21	10 57.67	− 1 5.4	1.838	2.801	5.6	19.4
3 2	10 49.96	− 0 5.1	1.809	2.795	2.6	19.2
3 12	10 42.16	+ 1 3.2	1.808	2.788	4.2	19.3
3 22	10 35.19	+ 2 12.5	1.836	2.781	8.0	19.5
4 1	10 29.83	+ 3 16.4	1.889	2.775	11.6	19.7

52225 Panchenko 3 1.5 236.°50 4.°7/ 6.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.24	−10 10.7	2.812	3.486	13.2	19.5
2 1	11 10.38	−10 37.5	2.694	3.474	11.3	19.4
2 11	11 4.78	−10 48.9	2.596	3.462	9.1	19.2
2 21	10 57.79	−10 44.0	2.524	3.450	6.8	19.0
3 2	10 49.96	−10 23.1	2.479	3.437	5.0	18.9
3 12	10 41.99	− 9 48.7	2.463	3.424	5.0	18.9
3 22	10 34.60	− 9 4.6	2.477	3.410	6.9	18.9
4 1	10 28.42	− 8 15.5	2.517	3.396	9.3	19.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
153164 2000 TC_3			3 1.5 102°.80	0°.3/ 1.8 18		
	h m	° ′			°	m
1 22	11 15.04	+ 3 46.9	1.956	2.723	15.3	20.7
2 1	11 11.55	+ 4 10.4	1.872	2.731	12.2	20.5
2 11	11 5.82	+ 4 49.0	1.809	2.739	8.5	20.3
2 21	10 58.34	+ 5 39.0	1.772	2.747	4.3	20.0
3 2	10 49.94	+ 6 35.3	1.763	2.754	0.3	19.7
3 12	10 41.60	+ 7 31.2	1.784	2.762	4.5	20.1
3 22	10 34.27	+ 8 20.9	1.832	2.769	8.6	20.3
4 1	10 28.72	+ 8 59.6	1.905	2.777	12.2	20.5
348859 2006 SA_{129}			3 1.5 191°.81	2°.2/ 4.2 18		
1 22	11 14.41	− 2 19.3	3.102	3.814	11.3	21.9
2 1	11 10.20	− 2 23.6	2.993	3.812	9.3	21.7
2 11	11 4.46	− 2 16.5	2.908	3.810	6.9	21.5
2 21	10 57.55	− 1 58.7	2.850	3.807	4.3	21.4
3 2	10 49.98	− 1 32.1	2.821	3.803	2.3	21.2
3 12	10 42.37	− 0 59.8	2.823	3.800	3.2	21.3
3 22	10 35.33	− 0 25.1	2.856	3.795	5.8	21.4
4 1	10 29.39	+ 0 8.4	2.917	3.790	8.4	21.6
61339 2000 PA_1			3 1.5 218°.56	2°.3/27.7 18		
1 22	11 13.12	+12 34.3	2.725	3.504	11.2	20.1
2 1	11 9.48	+13 22.5	2.627	3.497	8.7	19.9
2 11	11 4.12	+14 17.8	2.553	3.490	6.0	19.7
2 21	10 57.43	+15 16.0	2.508	3.483	3.2	19.5
3 2	10 49.99	+16 11.9	2.493	3.475	2.6	19.5
3 12	10 42.52	+17 0.4	2.508	3.467	5.0	19.6
3 22	10 35.71	+17 37.9	2.552	3.459	8.0	19.8
4 1	10 30.17	+18 2.1	2.621	3.450	10.6	20.0
63708 2001 QA_{198}			3 1.5 114°.70	3°.7/ 4.7 18		
1 22	11 17.68	− 4 48.4	1.672	2.410	18.7	19.6
2 1	11 14.03	− 4 49.4	1.592	2.424	15.4	19.4
2 11	11 7.74	− 4 27.3	1.530	2.437	11.6	19.2
2 21	10 59.38	− 3 42.9	1.492	2.450	7.3	18.9
3 2	10 49.90	− 2 40.0	1.480	2.462	4.0	18.8
3 12	10 40.51	− 1 26.0	1.496	2.474	5.2	18.9
3 22	10 32.36	− 0 9.5	1.539	2.485	9.1	19.1
4 1	10 26.35	+ 1 1.2	1.607	2.496	13.1	19.4
489579 2007 TH_{88}			3 1.5 177°.01	5°.0/26.0 17		
1 22	11 20.69	+18 14.6	1.935	2.729	14.5	22.2
2 1	11 16.19	+19 16.3	1.855	2.731	11.5	22.0
2 11	11 9.12	+20 23.4	1.798	2.733	8.2	21.8
2 21	11 0.04	+21 28.0	1.767	2.734	5.4	21.7
3 2	10 49.87	+22 21.8	1.765	2.734	5.4	21.7
3 12	10 39.78	+22 58.2	1.791	2.734	8.2	21.8
3 22	10 30.87	+23 13.7	1.844	2.733	11.5	22.0
4 1	10 24.02	+23 7.9	1.919	2.731	14.6	22.2
118207 1995 SJ_{10}			3 1.5 296°.88	0°.4/ 1.2 18		
1 22	11 15.75	+ 5 22.6	1.364	2.162	19.3	20.6
2 1	11 13.37	+ 5 43.9	1.276	2.154	15.5	20.3
2 11	11 7.84	+ 6 24.8	1.207	2.146	10.8	20.0
2 21	10 59.66	+ 7 21.4	1.161	2.138	5.4	19.7
3 2	10 49.88	+ 8 26.0	1.140	2.131	0.6	19.3
3 12	10 39.98	+ 9 28.8	1.145	2.123	6.3	19.7
3 22	10 31.43	+10 20.8	1.174	2.116	11.9	20.0
4 1	10 25.44	+10 55.6	1.226	2.109	16.7	20.3
94520 2001 UF_{112}			3 1.5 350°.46	4°.3/ 4.8 18		
1 22	11 13.42	− 4 39.1	1.404	2.167	20.5	19.7
2 1	11 11.35	− 4 51.5	1.318	2.165	17.1	19.5
2 11	11 6.32	− 4 37.6	1.249	2.163	13.0	19.2
2 21	10 58.85	− 3 57.3	1.202	2.162	8.4	19.0
3 2	10 49.92	− 2 53.7	1.178	2.161	4.6	18.7
3 12	10 40.92	− 1 34.9	1.181	2.161	5.9	18.8
3 22	10 33.20	− 0 11.4	1.208	2.160	10.4	19.0
4 1	10 27.88	+ 1 6.5	1.258	2.160	15.0	19.3
143335 2003 AA_{72}			3 1.5 158°.88	6°.8/23.3 18		
1 22	11 21.78	+26 33.0	2.254	3.044	12.9	20.0
2 1	11 16.71	+27 46.4	2.185	3.051	10.5	19.9
2 11	11 9.27	+28 57.9	2.140	3.057	8.2	19.8
2 21	11 0.03	+29 59.5	2.123	3.063	6.9	19.7
3 2	10 49.88	+30 43.6	2.134	3.068	7.4	19.7
3 12	10 39.89	+31 5.5	2.172	3.073	9.3	19.8
3 22	10 31.06	+31 3.8	2.236	3.077	11.7	20.0
4 1	10 24.15	+30 40.0	2.322	3.080	14.0	20.2
58678 1997 YE_{18}			3 1.5 209°.01	2°.2/ 3.7 18		
1 22	11 15.03	− 0 23.1	2.430	3.165	13.5	19.0
2 1	11 11.15	− 0 34.3	2.329	3.164	11.1	18.8
2 11	11 5.36	− 0 32.5	2.250	3.162	8.1	18.6
2 21	10 58.09	− 0 18.8	2.197	3.161	4.8	18.4
3 2	10 49.98	+ 0 4.4	2.173	3.159	2.2	18.2
3 12	10 41.83	+ 0 33.5	2.179	3.157	3.8	18.3
3 22	10 34.44	+ 1 4.2	2.214	3.156	7.1	18.5
4 1	10 28.49	+ 1 32.4	2.275	3.154	10.2	18.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
87474 2000 QF_{139}			3 1.5 125°.82	0°.4/ 1.9 18		
	h m	° ′			°	m
1 22	11 14.65	+ 2 52.2	2.107	2.867	14.6	19.8
2 1	11 11.08	+ 3 23.0	2.021	2.876	11.7	19.6
2 11	11 5.41	+ 4 9.0	1.958	2.885	8.1	19.4
2 21	10 58.12	+ 5 6.7	1.920	2.893	4.2	19.2
3 2	10 49.98	+ 6 10.9	1.911	2.902	0.4	18.9
3 12	10 41.89	+ 7 15.1	1.932	2.910	4.2	19.2
3 22	10 34.73	+ 8 13.3	1.981	2.918	8.1	19.5
4 1	10 29.21	+ 9 0.8	2.055	2.925	11.5	19.7
375346 2008 SA_{50}			3 1.5 189°.82	0°.5/ 1.0 17		
1 22	11 15.99	+ 7 3.3	2.221	2.989	13.7	21.9
2 1	11 12.09	+ 7 22.7	2.127	2.989	10.9	21.7
2 11	11 6.10	+ 7 52.9	2.055	2.988	7.5	21.5
2 21	10 58.48	+ 8 30.6	2.011	2.987	3.7	21.2
3 2	10 49.96	+ 9 11.2	1.995	2.986	0.7	21.0
3 12	10 41.45	+ 9 49.2	2.009	2.984	4.5	21.3
3 22	10 33.80	+10 20.3	2.051	2.982	8.2	21.5
4 1	10 27.76	+10 41.0	2.119	2.981	11.6	21.7
105900 2000 SJ_{190}			3 1.5 359°.33	2°.6/ 2.9 18		
1 22	11 17.40	+ 3 15.6	1.207	2.005	21.3	18.7
2 1	11 14.97	+ 2 30.3	1.128	2.002	17.4	18.4
2 11	11 9.09	+ 2 1.7	1.067	2.000	12.6	18.1
2 21	11 0.33	+ 1 49.4	1.027	1.999	7.2	17.8
3 2	10 49.89	+ 1 50.8	1.011	2.000	2.7	17.5
3 12	10 39.44	+ 2 0.1	1.019	2.001	6.2	17.7
3 22	10 30.61	+ 2 11.0	1.051	2.003	11.6	18.0
4 1	10 24.64	+ 2 17.2	1.105	2.007	16.6	18.3
106086 2000 SE_{356}			3 1.5 183°.40	5°.0/25.5 18		
1 22	11 20.47	+18 38.8	2.091	2.881	13.7	20.7
2 1	11 15.87	+19 51.9	2.008	2.882	10.8	20.5
2 11	11 8.85	+21 10.3	1.949	2.882	7.8	20.3
2 21	10 59.91	+22 26.3	1.918	2.882	5.4	20.2
3 2	10 49.92	+23 31.6	1.916	2.880	5.5	20.2
3 12	10 39.96	+24 19.4	1.942	2.878	8.1	20.3
3 22	10 31.07	+24 45.9	1.996	2.875	11.2	20.5
4 1	10 24.09	+24 50.6	2.072	2.871	14.1	20.7
191255 2003 BP_{18}			3 1.5 94°.58	3°.1/ 3.7 18		
1 22	11 24.18	− 0 45.7	1.566	2.314	19.3	20.8
2 1	11 19.16	− 1 8.8	1.496	2.338	15.7	20.6
2 11	11 11.24	− 1 12.9	1.447	2.362	11.5	20.4
2 21	11 1.10	− 0 59.0	1.420	2.385	6.8	20.2
3 2	10 49.87	− 0 30.6	1.421	2.407	3.2	20.0
3 12	10 38.93	+ 0 6.1	1.450	2.429	5.3	20.2
3 22	10 29.51	+ 0 44.3	1.506	2.450	9.6	20.5
4 1	10 22.54	+ 1 17.9	1.587	2.471	13.5	20.7
473957 2016 EQ_{181}			3 1.5 23°.53	5°.8/ 7.1 18		
1 22	11 7.46	−10 35.6	1.344	2.094	21.9	20.3
2 1	11 6.58	−10 31.0	1.273	2.105	18.6	20.1
2 11	11 2.93	− 9 52.0	1.217	2.117	14.5	19.9
2 21	10 57.09	− 8 38.3	1.182	2.130	10.1	19.7
3 2	10 50.06	− 6 54.5	1.170	2.145	6.5	19.5
3 12	10 43.16	− 4 51.3	1.183	2.160	6.4	19.5
3 22	10 37.58	− 2 42.4	1.221	2.177	9.9	19.8
4 1	10 34.26	− 0 41.0	1.283	2.195	14.0	20.0
174482 2003 AJ_{59}			3 1.5 0°.82	4°.5/26.2 18		
1 22	11 8.69	+14 31.4	1.644	2.464	15.5	18.8
2 1	11 7.15	+15 44.5	1.568	2.462	12.1	18.6
2 11	11 3.12	+17 8.2	1.515	2.461	8.4	18.3
2 21	10 57.13	+18 34.1	1.487	2.461	5.1	18.1
3 2	10 50.07	+19 52.7	1.485	2.462	5.1	18.1
3 12	10 43.06	+20 54.9	1.510	2.464	8.3	18.3
3 22	10 37.18	+21 35.2	1.559	2.467	12.0	18.5
4 1	10 33.27	+21 51.5	1.630	2.471	15.4	18.8
368984 2007 EX_{127}			3 1.6 143°.47	0°.3/ 1.3 17		
1 22	11 17.37	+ 6 23.3	2.076	2.844	14.6	21.6
2 1	11 13.28	+ 6 38.7	1.988	2.849	11.6	21.4
2 11	11 6.97	+ 7 5.7	1.923	2.854	8.0	21.2
2 21	10 58.95	+ 7 41.0	1.883	2.859	4.0	20.9
3 2	10 49.99	+ 8 19.8	1.873	2.863	0.4	20.6
3 12	10 41.09	+ 8 56.7	1.891	2.868	4.5	21.0
3 22	10 33.16	+ 9 26.8	1.938	2.872	8.5	21.2
4 1	10 26.99	+ 9 46.8	2.010	2.875	12.0	21.4
58191 Dolomiten			3 1.6 67°.85	4°.5/ 4.7 18		
1 22	11 18.27	− 3 29.7	1.453	2.208	20.3	18.7
2 1	11 14.99	− 4 2.4	1.373	2.216	16.8	18.5
2 11	11 8.70	− 4 12.8	1.312	2.224	12.7	18.3
2 21	11 0.00	− 4 0.4	1.273	2.232	8.2	18.0
3 2	10 49.94	− 3 27.7	1.258	2.240	4.7	17.9
3 12	10 39.93	− 2 40.9	1.270	2.248	6.0	17.9
3 22	10 31.32	− 1 48.1	1.307	2.256	10.2	18.2
4 1	10 25.16	− 0 57.7	1.368	2.264	14.4	18.5

347307 2011 QW_5 3 1.6 260°.89 4°.6/ 6.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 12.03	− 9 15.1	2.418	3.114	14.6	21.0
2 1	11 8.90	− 9 29.8	2.313	3.110	12.4	20.8
2 11	11 3.90	− 9 26.2	2.227	3.106	9.8	20.6
2 21	10 57.41	− 9 3.9	2.166	3.102	7.1	20.5
3 2	10 50.06	− 8 23.9	2.131	3.097	4.9	20.3
3 12	10 42.64	− 7 30.1	2.125	3.093	5.0	20.3
3 22	10 35.92	− 6 27.6	2.148	3.089	7.3	20.4
4 1	10 30.60	− 5 22.7	2.196	3.085	10.1	20.6

87611 2000 RP_{44} 3 1.6 180°.58 1°.6/ 2.9 18

1 22	11 20.16	+ 2 21.5	2.204	2.946	14.6	19.3
2 1	11 15.39	+ 2 4.1	2.105	2.947	11.8	19.1
2 11	11 8.40	+ 1 58.5	2.029	2.947	8.5	18.9
2 21	10 59.68	+ 2 3.3	1.979	2.948	4.8	18.6
3 2	10 49.97	+ 2 16.0	1.959	2.947	1.7	18.4
3 12	10 40.24	+ 2 32.9	1.968	2.947	4.1	18.6
3 22	10 31.43	+ 2 49.9	2.007	2.946	7.8	18.8
4 1	10 24.32	+ 3 3.2	2.071	2.944	11.3	19.0

429211 2009 WR_{218} 3 1.6 148°.11 3°.8/26.9 17

1 22	11 16.29	+15 22.4	2.036	2.831	13.9	21.5
2 1	11 12.56	+16 15.7	1.955	2.833	10.9	21.3
2 11	11 6.54	+17 15.9	1.897	2.836	7.5	21.1
2 21	10 58.76	+18 16.6	1.866	2.838	4.5	20.9
3 2	10 50.02	+19 10.6	1.863	2.840	4.2	20.9
3 12	10 41.35	+19 51.5	1.889	2.842	6.9	21.1
3 22	10 33.70	+20 15.3	1.941	2.844	10.3	21.3
4 1	10 27.87	+20 20.8	2.017	2.846	13.4	21.5

377324 2004 MU_3 3 1.6 232°.24 4°.9/ 6.9 17

1 22	11 15.08	−10 51.8	2.572	3.247	14.2	22.2
2 1	11 11.29	−11 3.2	2.451	3.232	12.2	22.0
2 11	11 5.57	−10 56.0	2.349	3.216	9.8	21.8
2 21	10 58.29	−10 29.5	2.272	3.200	7.2	21.6
3 2	10 50.04	− 9 44.2	2.222	3.183	5.2	21.5
3 12	10 41.60	− 8 43.5	2.202	3.166	5.2	21.4
3 22	10 33.79	− 7 32.5	2.210	3.147	7.4	21.5
4 1	10 27.32	− 6 17.6	2.246	3.128	10.2	21.7

300846 2007 YU_9 3 1.6 198°.83 4°.2/25.3 18

1 22	11 14.10	+19 28.9	2.614	3.406	11.2	20.8
2 1	11 10.36	+20 27.5	2.529	3.404	8.8	20.7
2 11	11 4.78	+21 29.2	2.470	3.403	6.4	20.5
2 21	10 57.80	+22 28.3	2.438	3.401	4.5	20.4
3 2	10 50.06	+23 18.9	2.435	3.399	4.6	20.4
3 12	10 42.35	+23 56.2	2.462	3.396	6.7	20.5
3 22	10 35.41	+24 17.4	2.515	3.394	9.2	20.7
4 1	10 29.88	+24 21.6	2.593	3.391	11.6	20.8

116998 2004 HV_{50} 3 1.6 243°.47 4°.2/24.8 18

1 22	11 11.99	+17 25.1	2.607	3.400	11.2	20.1
2 1	11 8.81	+18 49.2	2.513	3.390	8.8	19.9
2 11	11 3.80	+20 19.6	2.444	3.380	6.3	19.8
2 21	10 57.36	+21 50.1	2.405	3.369	4.4	19.6
3 2	10 50.08	+23 13.6	2.395	3.359	4.7	19.6
3 12	10 42.73	+24 23.9	2.415	3.348	6.9	19.8
3 22	10 36.05	+25 16.9	2.462	3.337	9.6	19.9
4 1	10 30.72	+25 50.7	2.533	3.325	12.1	20.1

371783 2007 LK_5 3 1.6 60°.99 5°.8/24.9 18

1 22	11 16.08	+19 51.8	1.812	2.621	14.8	20.6
2 1	11 12.64	+21 7.4	1.749	2.633	11.6	20.4
2 11	11 6.69	+22 26.8	1.709	2.645	8.4	20.3
2 21	10 58.83	+23 41.1	1.695	2.657	6.1	20.1
3 2	10 50.02	+24 41.5	1.708	2.670	6.4	20.2
3 12	10 41.41	+25 21.2	1.748	2.682	8.9	20.4
3 22	10 34.05	+25 37.6	1.813	2.695	12.0	20.6
4 1	10 28.74	+25 30.7	1.900	2.708	14.9	20.8

291949 2006 QG_{41} 3 1.6 258°.40 1°.9/29.0 17

1 22	11 17.92	+ 9 35.9	1.821	2.605	15.7	21.3
2 1	11 14.36	+10 7.7	1.717	2.590	12.5	21.1
2 11	11 8.15	+10 52.2	1.636	2.573	8.6	20.8
2 21	10 59.74	+11 44.6	1.579	2.557	4.3	20.5
3 2	10 49.97	+12 38.2	1.551	2.540	2.1	20.3
3 12	10 40.01	+13 25.4	1.551	2.522	6.2	20.5
3 22	10 31.05	+14 0.1	1.578	2.504	10.6	20.8
4 1	10 24.11	+14 18.6	1.629	2.486	14.7	21.0

237651 2001 SY_{163} 3 1.6 136°.28 2°.4/ 4.5 18

1 22	11 11.81	− 3 56.5	2.572	3.294	13.2	20.4
2 1	11 8.49	− 3 41.6	2.476	3.299	10.9	20.2
2 11	11 3.47	− 3 10.7	2.401	3.305	8.1	20.1
2 21	10 57.14	− 2 25.3	2.353	3.311	5.0	19.9
3 2	10 50.10	− 1 28.4	2.333	3.316	2.6	19.7
3 12	10 43.07	− 0 24.7	2.343	3.321	3.6	19.8
3 22	10 36.74	+ 0 40.4	2.382	3.326	6.5	20.0
4 1	10 31.71	+ 1 41.9	2.449	3.331	9.4	20.2

8629 Chucklorre 3 1.6 142°.21 0°.5/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 12.38	+ 2 37.2	2.845	3.590	11.6	19.6
2 1	11 8.72	+ 3 5.2	2.753	3.599	9.2	19.4
2 11	11 3.50	+ 3 44.4	2.684	3.607	6.4	19.2
2 21	10 57.12	+ 4 32.5	2.643	3.615	3.4	19.0
3 2	10 50.11	+ 5 25.6	2.632	3.623	0.5	18.8
3 12	10 43.13	+ 6 19.5	2.652	3.630	3.2	19.0
3 22	10 36.81	+ 7 9.8	2.702	3.637	6.3	19.2
4 1	10 31.67	+ 7 53.0	2.778	3.644	9.0	19.4

397144 2005 WO_{153} 3 1.6 197°.64 2°.0/28.9 18

1 22	11 20.62	+ 9 37.3	1.898	2.675	15.4	22.3
2 1	11 16.23	+10 18.4	1.804	2.672	12.2	22.0
2 11	11 9.27	+11 11.7	1.733	2.668	8.4	21.8
2 21	11 0.22	+12 12.2	1.687	2.664	4.2	21.5
3 2	10 49.96	+13 12.5	1.671	2.658	2.2	21.4
3 12	10 39.65	+14 5.3	1.683	2.652	6.0	21.6
3 22	10 30.41	+14 44.9	1.724	2.645	10.2	21.9
4 1	10 23.19	+15 7.9	1.789	2.637	14.0	22.1

94459 2001 TU_{113} 3 1.6 61°.81 1°.6/ 2.6 18

1 22	11 18.70	+ 2 13.6	1.366	2.149	20.1	19.3
2 1	11 15.36	+ 2 8.6	1.297	2.162	16.2	19.1
2 11	11 8.93	+ 2 23.5	1.246	2.176	11.5	18.9
2 21	11 0.08	+ 2 55.5	1.217	2.190	6.2	18.6
3 2	10 49.97	+ 3 38.9	1.214	2.204	1.6	18.3
3 12	10 40.07	+ 4 25.9	1.238	2.219	5.5	18.6
3 22	10 31.73	+ 5 8.6	1.287	2.233	10.5	19.0
4 1	10 25.94	+ 5 40.9	1.358	2.248	15.0	19.3

7730 Sergerasimov 3 1.6 218°.90 0°.9/29.4 18

1 22	11 13.85	+ 7 22.6	2.830	3.590	11.3	19.0
2 1	11 10.02	+ 8 6.5	2.721	3.580	8.9	18.8
2 11	11 4.51	+ 9 0.4	2.637	3.569	6.1	18.6
2 21	10 57.69	+10 1.1	2.581	3.557	3.0	18.4
3 2	10 50.09	+11 3.9	2.555	3.545	1.1	18.2
3 12	10 42.42	+12 3.7	2.561	3.532	4.0	18.4
3 22	10 35.34	+12 56.2	2.596	3.518	7.2	18.6
4 1	10 29.47	+13 38.1	2.659	3.504	10.0	18.8

467029 2016 CJ_{189} 3 1.6 240°.33 2°.5/28.5 17

1 22	11 20.98	+13 22.4	2.158	2.935	13.8	21.8
2 1	11 16.25	+13 42.0	2.055	2.923	10.9	21.6
2 11	11 9.14	+14 8.3	1.975	2.910	7.5	21.3
2 21	11 0.13	+14 36.5	1.922	2.897	4.0	21.1
3 2	10 49.99	+15 1.3	1.898	2.883	2.7	21.0
3 12	10 39.77	+15 17.6	1.904	2.869	5.8	21.1
3 22	10 30.49	+15 21.7	1.938	2.854	9.6	21.3
4 1	10 23.01	+15 12.1	1.998	2.839	13.0	21.5

362152 2009 DZ_{123} 3 1.6 54°.31 3°.0/ 4.3 18

1 22	11 13.05	− 4 53.6	1.352	2.117	21.1	20.6
2 1	11 10.87	− 4 22.6	1.286	2.137	17.2	20.4
2 11	11 5.79	− 3 21.5	1.239	2.158	12.6	20.2
2 21	10 58.50	− 1 53.4	1.214	2.179	7.6	20.0
3 2	10 50.07	− 0 6.0	1.213	2.200	3.3	19.8
3 12	10 41.88	+ 1 48.7	1.240	2.222	5.3	19.9
3 22	10 35.15	+ 3 38.3	1.292	2.243	10.0	20.3
4 1	10 30.78	+ 5 12.8	1.368	2.265	14.4	20.6

208236 2000 SM_{299} 3 1.6 95°.78 1°.1/ 2.4 18

1 22	11 19.59	+ 2 36.0	1.623	2.391	18.0	21.0
2 1	11 15.57	+ 2 40.1	1.548	2.405	14.4	20.8
2 11	11 8.82	+ 3 1.6	1.493	2.420	10.2	20.5
2 21	10 59.96	+ 3 37.4	1.462	2.434	5.4	20.3
3 2	10 50.00	+ 4 22.2	1.458	2.449	1.2	20.0
3 12	10 40.22	+ 5 9.2	1.483	2.463	4.9	20.3
3 22	10 31.77	+ 5 51.5	1.534	2.476	9.5	20.6
4 1	10 25.55	+ 6 24.0	1.609	2.489	13.6	20.9

379047 2008 WV_{31} 3 1.6 59°.27 0°.2/ 1.3 18

1 22	11 15.00	+ 5 48.1	1.973	2.747	15.0	21.3
2 1	11 11.43	+ 6 8.5	1.899	2.763	11.8	21.1
2 11	11 5.67	+ 6 41.6	1.847	2.780	8.1	20.9
2 21	10 58.29	+ 7 23.5	1.821	2.797	4.0	20.7
3 2	10 50.09	+ 8 9.0	1.824	2.815	0.4	20.4
3 12	10 42.05	+ 8 52.1	1.855	2.832	4.5	20.8
3 22	10 35.05	+ 9 27.9	1.913	2.849	8.4	21.1
4 1	10 29.82	+ 9 52.9	1.997	2.867	11.8	21.3

333117 2011 WO_1 3 1.6 69°.30 2°.1/28.9 18

1 22	11 18.13	+ 8 59.8	1.487	2.284	18.0	20.9
2 1	11 14.61	+ 9 41.2	1.423	2.302	14.1	20.7
2 11	11 8.22	+10 36.9	1.380	2.320	9.6	20.5
2 21	10 59.66	+11 40.2	1.361	2.339	4.7	20.2
3 2	10 50.02	+12 42.2	1.369	2.357	2.3	20.1
3 12	10 40.67	+13 34.6	1.404	2.375	6.5	20.4
3 22	10 32.80	+14 11.3	1.464	2.394	11.0	20.7
4 1	10 27.30	+14 29.4	1.548	2.412	14.9	21.0

37718 1996 SR_4 3 1.6 198°.47 1°.7/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 19.95	+ 9 46.5	1.995	2.770	14.8	20.1
2 1	11 15.56	+10 17.9	1.901	2.767	11.7	19.9
2 11	11 8.72	+11 0.0	1.829	2.764	8.0	19.7
2 21	10 59.93	+11 48.3	1.783	2.760	4.0	19.4
3 2	10 50.02	+12 36.6	1.766	2.755	1.9	19.3
3 12	10 40.08	+13 18.3	1.779	2.749	5.6	19.5
3 22	10 31.15	+13 48.5	1.820	2.743	9.7	19.7
4 1	10 24.13	+14 4.2	1.886	2.736	13.3	19.9

13646 1996 HC_{12} 3 1.6 36°.41 0°.5/ 2.1 18

1 22	11 13.63	+ 3 28.6	2.088	2.853	14.6	19.4
2 1	11 10.39	+ 3 46.4	1.996	2.854	11.7	19.2
2 11	11 5.03	+ 4 18.4	1.926	2.855	8.2	19.0
2 21	10 58.03	+ 5 1.6	1.882	2.856	4.2	18.7
3 2	10 50.10	+ 5 51.6	1.866	2.857	0.5	18.4
3 12	10 42.19	+ 6 42.4	1.879	2.858	4.2	18.7
3 22	10 35.15	+ 7 28.5	1.920	2.859	8.1	19.0
4 1	10 29.76	+ 8 5.4	1.986	2.860	11.7	19.2

308168 2005 BU_{21} 3 1.6 176°.47 1°.2/29.4 18

1 22	11 16.86	+ 6 44.2	1.921	2.696	15.3	21.6
2 1	11 13.16	+ 7 32.8	1.832	2.698	12.1	21.4
2 11	11 7.08	+ 8 36.3	1.765	2.700	8.3	21.2
2 21	10 59.10	+ 9 49.7	1.724	2.701	4.0	20.9
3 2	10 50.06	+11 5.9	1.712	2.702	1.4	20.7
3 12	10 41.01	+12 17.0	1.729	2.701	5.4	21.0
3 22	10 32.98	+13 16.4	1.774	2.701	9.6	21.2
4 1	10 26.82	+13 59.7	1.844	2.700	13.3	21.5

296978 2010 ER_{99} 3 1.6 287°.94 2°.1/ 3.9 17

1 22	11 10.61	− 2 44.6	2.246	2.986	14.4	21.4
2 1	11 8.04	− 2 20.1	2.129	2.966	11.9	21.2
2 11	11 3.49	− 1 36.6	2.034	2.947	8.8	21.0
2 21	10 57.32	− 0 35.5	1.963	2.927	5.3	20.7
3 2	10 50.14	+ 0 39.6	1.921	2.908	2.2	20.5
3 12	10 42.79	+ 2 2.8	1.908	2.888	4.0	20.6
3 22	10 36.12	+ 3 26.9	1.924	2.868	7.7	20.8
4 1	10 30.89	+ 4 45.2	1.966	2.849	11.3	20.9

75071 1999 VB_{19} 3 1.6 167°.42 3°.2/ 4.8 18

1 22	11 17.74	− 4 36.9	2.265	2.979	15.0	20.7
2 1	11 13.44	− 4 37.9	2.168	2.985	12.4	20.5
2 11	11 7.05	− 4 21.4	2.091	2.990	9.3	20.3
2 21	10 59.02	− 3 48.2	2.039	2.994	6.0	20.1
3 2	10 50.07	− 3 0.8	2.017	2.997	3.4	19.9
3 12	10 41.10	− 2 4.0	2.024	3.000	4.3	20.0
3 22	10 32.98	− 1 3.8	2.060	3.001	7.5	20.2
4 1	10 26.47	− 0 6.0	2.123	3.002	10.8	20.4

308101 2004 VE_{52} 3 1.6 167°.38 1°.4/29.3 18

1 22	11 20.28	+ 8 21.8	2.101	2.868	14.4	22.3
2 1	11 15.59	+ 8 59.3	2.012	2.874	11.4	22.1
2 11	11 8.59	+ 9 48.3	1.946	2.879	7.8	21.9
2 21	10 59.81	+10 44.2	1.907	2.884	3.8	21.7
3 2	10 50.04	+11 40.8	1.898	2.887	1.5	21.5
3 12	10 40.32	+12 31.8	1.919	2.890	5.2	21.7
3 22	10 31.60	+13 12.1	1.969	2.892	9.0	22.0
4 1	10 24.70	+13 38.5	2.044	2.892	12.5	22.2

122397 2000 QJ_{79} 3 1.6 147°.78 0°.8/ 2.4 18

1 22	11 15.92	+ 2 14.6	2.288	3.037	13.9	21.1
2 1	11 11.93	+ 2 34.6	2.197	3.045	11.2	20.9
2 11	11 5.95	+ 3 8.4	2.130	3.052	7.9	20.7
2 21	10 58.44	+ 3 53.3	2.088	3.060	4.2	20.5
3 2	10 50.11	+ 4 45.2	2.076	3.066	0.8	20.3
3 12	10 41.81	+ 5 38.6	2.094	3.072	3.9	20.5
3 22	10 34.37	+ 6 28.2	2.140	3.078	7.5	20.7
4 1	10 28.47	+ 7 9.7	2.214	3.084	10.8	20.9

231393 2006 KM_{65} 3 1.6 264°.14 1°.4/29.3 17

1 22	11 15.61	+ 9 12.4	2.080	2.860	14.1	20.8
2 1	11 12.03	+ 9 37.0	1.985	2.855	11.2	20.6
2 11	11 6.22	+10 11.9	1.912	2.849	7.6	20.3
2 21	10 58.66	+10 53.1	1.866	2.843	3.8	20.1
3 2	10 50.10	+11 35.2	1.848	2.837	1.5	19.9
3 12	10 41.50	+12 12.4	1.859	2.831	5.1	20.1
3 22	10 33.82	+12 40.0	1.898	2.825	9.0	20.4
4 1	10 27.84	+12 55.0	1.961	2.819	12.5	20.6

210488 1996 XT_{10} 3 1.6 188°.49 1°.9/28.9 18

1 22	11 20.39	+10 18.7	1.986	2.762	14.8	21.1
2 1	11 15.89	+10 48.4	1.894	2.761	11.7	20.9
2 11	11 8.93	+11 28.4	1.825	2.760	8.0	20.7
2 21	11 0.03	+12 13.8	1.782	2.759	4.0	20.4
3 2	10 50.04	+12 58.3	1.768	2.756	2.1	20.3
3 12	10 40.05	+13 35.8	1.784	2.753	5.7	20.5
3 22	10 31.11	+14 1.6	1.828	2.750	9.7	20.7
4 1	10 24.10	+14 12.9	1.896	2.746	13.2	21.0

341674 2007 VX_{88} 3 1.6 137°.70 4°.1/ 6.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 14.42	− 8 29.3	2.709	3.396	13.3	21.0
2 1	11 10.46	− 8 46.4	2.612	3.405	11.3	20.8
2 11	11 4.80	− 8 47.7	2.537	3.413	8.8	20.7
2 21	10 57.83	− 8 33.1	2.486	3.422	6.3	20.5
3 2	10 50.14	− 8 3.8	2.464	3.430	4.4	20.4
3 12	10 42.47	− 7 23.1	2.471	3.437	4.5	20.4
3 22	10 35.48	− 6 35.4	2.507	3.445	6.6	20.6
4 1	10 29.78	− 5 45.4	2.570	3.452	9.1	20.7

92265 2000 BO_{22} 3 1.6 294°.96 4°.1/ 6.3 18

1 22	11 11.98	− 7 54.9	2.690	3.386	13.2	19.4
2 1	11 8.67	− 8 16.1	2.582	3.381	11.2	19.2
2 11	11 3.65	− 8 22.1	2.495	3.376	8.8	19.0
2 21	10 57.30	− 8 12.5	2.433	3.371	6.3	18.9
3 2	10 50.17	− 7 48.3	2.399	3.366	4.4	18.7
3 12	10 42.97	− 7 12.3	2.393	3.360	4.6	18.7
3 22	10 36.39	− 6 28.8	2.416	3.355	6.7	18.8
4 1	10 31.05	− 5 42.4	2.466	3.351	9.3	19.0

246811 2009 GJ_3 3 1.6 300°.13 7°.1/ 7.9 18

1 22	11 14.81	−13 14.1	2.328	2.997	15.7	20.0
2 1	11 11.40	−14 14.5	2.211	2.979	13.8	19.8
2 11	11 5.87	−14 57.6	2.113	2.962	11.5	19.6
2 21	10 58.56	−15 20.6	2.038	2.945	9.2	19.4
3 2	10 50.12	−15 21.9	1.988	2.928	7.5	19.3
3 12	10 41.41	−15 2.6	1.966	2.911	7.3	19.2
3 22	10 33.37	−14 26.5	1.970	2.895	8.9	19.3
4 1	10 26.83	−13 39.3	1.999	2.878	11.4	19.4

152485 2005 WD_{64} 3 1.6 309°.27 0°.9/ 2.3 17

1 22	11 12.86	+ 2 58.3	1.681	2.461	17.0	19.8
2 1	11 10.66	+ 3 4.7	1.570	2.435	13.8	19.5
2 11	11 5.82	+ 3 28.8	1.478	2.410	9.9	19.2
2 21	10 58.71	+ 4 8.7	1.411	2.385	5.3	18.9
3 2	10 50.11	+ 4 59.9	1.369	2.360	1.0	18.5
3 12	10 41.19	+ 5 55.5	1.355	2.335	5.2	18.7
3 22	10 33.17	+ 6 47.8	1.366	2.311	10.2	19.0
4 1	10 27.17	+ 7 30.0	1.401	2.288	14.8	19.2

400399 2008 AP_{94} 3 1.6 132°.59 1°.7/28.9 18

1 22	11 18.11	+ 8 45.2	2.033	2.808	14.6	21.9
2 1	11 13.88	+ 9 32.9	1.955	2.822	11.4	21.7
2 11	11 7.40	+10 32.3	1.900	2.835	7.8	21.5
2 21	10 59.20	+11 38.1	1.871	2.848	3.8	21.3
3 2	10 50.10	+12 43.4	1.871	2.860	1.9	21.2
3 12	10 41.13	+13 41.5	1.902	2.871	5.4	21.4
3 22	10 33.20	+14 27.2	1.960	2.882	9.2	21.7
4 1	10 27.08	+14 57.4	2.043	2.892	12.5	21.9

216982 2000 QU_{38} 3 1.6 123°.33 2°.0/ 3.4 18

1 22	11 19.95	+ 0 26.0	2.250	2.983	14.5	20.2
2 1	11 15.06	+ 0 13.6	2.163	2.998	11.8	20.0
2 11	11 8.07	+ 0 14.6	2.099	3.012	8.5	19.8
2 21	10 59.50	+ 0 27.4	2.061	3.026	5.0	19.6
3 2	10 50.09	+ 0 49.5	2.053	3.039	2.1	19.4
3 12	10 40.78	+ 1 16.6	2.074	3.052	4.0	19.6
3 22	10 32.42	+ 1 44.4	2.125	3.065	7.4	19.8
4 1	10 25.73	+ 2 8.8	2.202	3.077	10.7	20.0

157311 2004 SC_{31} 3 1.6 196°.66 0°.8/ 2.5 18

1 22	11 13.50	+ 1 21.4	2.145	2.900	14.5	20.9
2 1	11 10.28	+ 1 50.5	2.048	2.899	11.7	20.7
2 11	11 4.97	+ 2 35.9	1.973	2.898	8.3	20.5
2 21	10 58.03	+ 3 34.9	1.924	2.896	4.4	20.2
3 2	10 50.16	+ 4 42.7	1.904	2.894	0.9	19.9
3 12	10 42.25	+ 5 52.7	1.912	2.892	4.1	20.2
3 22	10 35.18	+ 6 58.6	1.950	2.889	8.0	20.4
4 1	10 29.69	+ 7 55.0	2.013	2.887	11.5	20.6

234857 2002 RR_{235} 3 1.6 271°.29 1°.1/ 2.6 17

1 22	11 14.11	+ 2 16.5	2.187	2.943	14.3	21.0
2 1	11 10.75	+ 2 23.2	2.086	2.937	11.5	20.7
2 11	11 5.30	+ 2 43.7	2.007	2.931	8.2	20.5
2 21	10 58.21	+ 3 16.0	1.953	2.924	4.5	20.3
3 2	10 50.15	+ 3 56.4	1.928	2.918	1.1	20.0
3 12	10 42.04	+ 4 39.8	1.932	2.912	4.0	20.2
3 22	10 34.74	+ 5 21.1	1.964	2.905	7.9	20.4
4 1	10 29.00	+ 5 55.6	2.022	2.899	11.4	20.6

130452 2000 QX_{56} 3 1.6 294°.16 2°.5/28.3 18

1 22	11 11.59	+ 6 34.4	1.457	2.261	18.0	19.8
2 1	11 9.96	+ 7 54.1	1.364	2.248	14.3	19.5
2 11	11 5.47	+ 9 37.7	1.292	2.236	9.7	19.2
2 21	10 58.56	+11 38.0	1.244	2.223	4.8	18.9
3 2	10 50.13	+13 43.8	1.223	2.211	2.9	18.8
3 12	10 41.52	+15 41.2	1.229	2.199	7.6	19.0
3 22	10 34.06	+17 18.7	1.260	2.187	12.7	19.3
4 1	10 28.89	+18 29.2	1.313	2.175	17.2	19.5

355801 2008 SY_{199} 3 1.6 56°.56 0°.6/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 19.51	+ 4 10.0	1.275	2.067	20.7	21.5
2 1	11 16.11	+ 4 13.2	1.214	2.087	16.5	21.3
2 11	11 9.49	+ 4 35.8	1.171	2.107	11.5	21.1
2 21	11 0.38	+ 5 13.4	1.151	2.127	5.9	20.8
3 2	10 50.06	+ 5 59.3	1.156	2.147	0.6	20.5
3 12	10 40.10	+ 6 44.7	1.188	2.168	5.8	20.9
3 22	10 31.85	+ 7 22.0	1.244	2.189	11.0	21.3
4 1	10 26.31	+ 7 46.3	1.322	2.210	15.4	21.6

326417 2001 TN_{12} 3 1.6 80°.73 6°.9/25.0 18

1 22	11 23.59	+24 23.1	1.807	2.606	15.2	20.4
2 1	11 18.48	+25 21.3	1.752	2.626	12.2	20.2
2 11	11 10.63	+26 17.8	1.719	2.645	9.2	20.1
2 21	11 0.79	+27 3.8	1.712	2.665	7.1	20.0
3 2	10 50.06	+27 31.3	1.733	2.684	7.4	20.1
3 12	10 39.74	+27 35.7	1.780	2.703	9.6	20.2
3 22	10 30.94	+27 16.4	1.853	2.722	12.4	20.5
4 1	10 24.46	+26 35.8	1.947	2.741	15.1	20.7

360374 2002 AW_{202} 3 1.6 41°.38 2°.6/ 3.4 18

1 22	11 15.87	− 0 8.4	1.212	2.001	21.8	20.8
2 1	11 13.44	− 0 17.2	1.150	2.017	17.7	20.5
2 11	11 7.78	− 0 1.5	1.105	2.034	12.7	20.3
2 21	10 59.59	+ 0 36.2	1.082	2.052	7.3	20.1
3 2	10 50.11	+ 1 30.1	1.082	2.071	2.7	19.8
3 12	10 40.92	+ 2 30.8	1.108	2.090	5.7	20.1
3 22	10 33.40	+ 3 28.5	1.158	2.110	10.8	20.4
4 1	10 28.56	+ 4 15.5	1.230	2.130	15.4	20.7

520032 2013 VE_{28} 3 1.6 122°.92 0°.9/29.6 17

1 22	11 14.58	+ 7 31.3	2.350	3.120	13.0	22.2
2 1	11 10.82	+ 8 5.6	2.266	3.129	10.2	22.0
2 11	11 5.16	+ 8 50.3	2.205	3.138	7.0	21.8
2 21	10 58.05	+ 9 41.6	2.171	3.147	3.4	21.6
3 2	10 50.18	+10 34.4	2.166	3.156	1.1	21.4
3 12	10 42.38	+11 23.3	2.191	3.164	4.4	21.7
3 22	10 35.42	+12 3.7	2.245	3.173	7.8	21.9
4 1	10 29.95	+12 32.7	2.325	3.180	10.9	22.1

374536 2006 AW_{104} 3 1.6 159°.94 0°.8/ 2.3 17

1 22	11 17.45	+ 3 35.0	2.383	3.131	13.4	21.4
2 1	11 13.07	+ 3 39.1	2.289	3.136	10.8	21.3
2 11	11 6.72	+ 3 54.8	2.218	3.141	7.6	21.1
2 21	10 58.84	+ 4 19.7	2.173	3.145	4.0	20.8
3 2	10 50.15	+ 4 50.5	2.158	3.149	0.8	20.6
3 12	10 41.47	+ 5 22.6	2.173	3.152	3.8	20.8
3 22	10 33.62	+ 5 52.0	2.218	3.155	7.3	21.1
4 1	10 27.30	+ 6 15.1	2.289	3.157	10.5	21.3

323060 2002 SV_{31} 3 1.6 71°.76 1°.3/29.4 18

1 22	11 18.52	+ 5 54.4	1.669	2.448	17.1	21.6
2 1	11 14.42	+ 6 55.9	1.615	2.483	13.3	21.4
2 11	11 7.80	+ 8 13.0	1.582	2.518	9.0	21.2
2 21	10 59.37	+ 9 38.8	1.575	2.552	4.3	21.0
3 2	10 50.13	+11 4.6	1.597	2.586	1.5	20.9
3 12	10 41.26	+12 21.7	1.647	2.620	5.6	21.2
3 22	10 33.76	+13 23.6	1.724	2.653	9.7	21.5
4 1	10 28.37	+14 7.0	1.826	2.685	13.3	21.8

6959 Mikkelkocha 3 1.6 191°.14 1°.9/28.8 18

1 22	11 18.77	+12 22.8	2.448	3.220	12.5	17.4
2 1	11 14.09	+12 40.3	2.353	3.219	9.8	17.2
2 11	11 7.41	+13 3.8	2.283	3.217	6.7	17.0
2 21	10 59.19	+13 29.5	2.240	3.216	3.4	16.8
3 2	10 50.14	+13 53.0	2.227	3.214	2.1	16.7
3 12	10 41.11	+14 9.9	2.245	3.212	4.9	16.9
3 22	10 32.93	+14 17.3	2.291	3.209	8.2	17.1
4 1	10 26.30	+14 13.6	2.363	3.206	11.2	17.3

518163 2016 GN_{259} 3 1.6 176°.78 4°.3/25.7 17

1 22	11 16.51	+18 59.2	2.441	3.231	12.0	22.2
2 1	11 12.39	+19 56.7	2.358	3.232	9.4	22.0
2 11	11 6.27	+20 57.6	2.300	3.233	6.7	21.9
2 21	10 58.63	+21 56.0	2.270	3.234	4.6	21.7
3 2	10 50.16	+22 45.5	2.269	3.235	4.7	21.7
3 12	10 41.75	+23 21.0	2.297	3.235	6.9	21.9
3 22	10 34.20	+23 39.7	2.352	3.234	9.6	22.0
4 1	10 28.20	+23 40.8	2.431	3.234	12.2	22.2

458816 2011 SF_{274} 3 1.6 205°.06 2°.1/28.6 17

1 22	11 18.42	+ 8 54.4	1.915	2.694	15.2	22.2
2 1	11 14.53	+ 9 49.3	1.819	2.689	12.0	22.0
2 11	11 8.15	+10 58.3	1.746	2.683	8.2	21.7
2 21	10 59.73	+12 15.9	1.700	2.676	4.1	21.5
3 2	10 50.11	+13 34.2	1.682	2.669	2.4	21.3
3 12	10 40.41	+14 44.9	1.693	2.661	6.1	21.5
3 22	10 31.71	+15 41.4	1.733	2.652	10.3	21.8
4 1	10 24.94	+16 19.8	1.796	2.642	14.0	22.0

437102 2012 UK_{106} 3 1.6 155°.41 1°.4/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 13.30	+ 0 6.2	2.775	3.508	12.1	22.3
2 1	11 9.53	+ 0 19.8	2.678	3.513	9.8	22.1
2 11	11 4.14	+ 0 45.8	2.604	3.519	7.0	21.9
2 21	10 57.51	+ 1 22.4	2.557	3.524	4.0	21.7
3 2	10 50.22	+ 2 6.6	2.540	3.528	1.4	21.6
3 12	10 42.94	+ 2 54.1	2.554	3.533	3.2	21.7
3 22	10 36.32	+ 3 40.8	2.597	3.537	6.3	21.9
4 1	10 30.92	+ 4 22.8	2.667	3.540	9.1	22.1

110054 2001 SH_{98} 3 1.6 273°.51 0°.3/ 1.8 17

1 22	11 21.02	+ 6 35.2	1.854	2.622	16.0	19.9
2 1	11 16.75	+ 6 20.6	1.748	2.608	12.9	19.7
2 11	11 9.80	+ 6 16.6	1.663	2.593	9.1	19.4
2 21	11 0.62	+ 6 20.9	1.604	2.579	4.7	19.1
3 2	10 50.08	+ 6 29.9	1.573	2.564	0.3	18.7
3 12	10 39.36	+ 6 38.9	1.571	2.549	5.0	19.0
3 22	10 29.65	+ 6 43.7	1.597	2.535	9.6	19.3
4 1	10 21.98	+ 6 41.0	1.647	2.520	13.7	19.5

431390 2007 EM_{201} 3 1.6 311°.70 22°.5/ 9.2 17

1 22	11 34.33	+50 9.8	1.071	1.865	23.7	19.9
2 1	11 31.66	+53 0.6	1.041	1.859	22.7	19.8
2 11	11 22.43	+55 21.4	1.027	1.854	22.5	19.8
2 21	11 7.54	+56 50.6	1.028	1.849	23.0	19.8
3 2	10 49.78	+57 11.5	1.043	1.844	24.3	19.9
3 12	10 33.11	+56 20.4	1.072	1.839	26.0	20.0
3 22	10 20.68	+54 26.1	1.112	1.835	27.8	20.1
4 1	10 13.94	+51 43.4	1.163	1.831	29.5	20.2

190364 1999 LJ_{4} 3 1.6 326°.06 11°.4/15.7 17

1 22	11 4.54	+21 34.1	1.303	2.152	17.1	18.2
2 1	11 5.22	+25 24.1	1.213	2.118	14.0	17.9
2 11	11 2.83	+29 38.7	1.149	2.084	11.7	17.7
2 21	10 57.56	+33 56.8	1.113	2.051	11.8	17.6
3 2	10 50.20	+37 52.5	1.103	2.020	14.5	17.7
3 12	10 42.21	+41 3.7	1.117	1.989	18.4	17.8
3 22	10 35.33	+43 18.5	1.151	1.960	22.3	17.9
4 1	10 31.21	+44 35.5	1.198	1.932	25.8	18.1

232189 2002 FM_{4} 3 1.6 329°.91 3°.4/ 4.8 17

1 22	11 7.17	− 5 6.8	1.583	2.345	18.6	19.4
2 1	11 6.21	− 4 50.2	1.480	2.328	15.5	19.1
2 11	11 2.74	− 4 6.0	1.395	2.311	11.7	18.9
2 21	10 57.15	− 2 54.4	1.332	2.295	7.4	18.6
3 2	10 50.24	− 1 19.5	1.294	2.279	3.7	18.3
3 12	10 43.12	+ 0 30.1	1.283	2.265	5.2	18.3
3 22	10 36.96	+ 2 23.0	1.298	2.251	9.7	18.6
4 1	10 32.80	+ 4 8.0	1.336	2.239	14.2	18.8

430043 2013 RK_{85} 3 1.6 205°.06 1°.5/ 3.0 17

1 22	11 16.03	+ 1 6.0	2.199	2.946	14.5	22.1
2 1	11 12.23	+ 1 10.2	2.099	2.943	11.7	21.9
2 11	11 6.31	+ 1 28.8	2.020	2.940	8.4	21.7
2 21	10 58.73	+ 2 0.0	1.968	2.936	4.7	21.4
3 2	10 50.18	+ 2 40.4	1.943	2.932	1.5	21.2
3 12	10 41.57	+ 3 24.9	1.949	2.928	4.0	21.3
3 22	10 33.80	+ 4 8.3	1.983	2.924	7.8	21.6
4 1	10 27.63	+ 4 45.7	2.043	2.919	11.3	21.8

43654 2002 EE_{98} 3 1.6 227°.61 0°.0/ 1.6 18

1 22	11 12.48	+ 2 50.1	2.266	3.025	13.7	19.1
2 1	11 9.42	+ 3 39.3	2.163	3.018	11.0	18.9
2 11	11 4.37	+ 4 44.7	2.082	3.011	7.6	18.6
2 21	10 57.76	+ 6 2.7	2.029	3.004	3.9	18.4
3 2	10 50.22	+ 7 27.9	2.005	2.996	0.2	18.0
3 12	10 42.60	+ 8 53.0	2.011	2.988	4.2	18.4
3 22	10 35.73	+10 11.4	2.046	2.980	8.1	18.6
4 1	10 30.34	+11 17.7	2.107	2.971	11.5	18.8

330961 2009 SR_{344} 3 1.6 71°.20 0°.8/ 2.4 18

1 22	11 13.70	+ 1 36.1	1.852	2.618	16.1	21.7
2 1	11 10.68	+ 2 3.6	1.770	2.627	12.9	21.5
2 11	11 5.36	+ 2 49.0	1.710	2.637	9.1	21.3
2 21	10 58.26	+ 3 48.8	1.674	2.647	4.8	21.0
3 2	10 50.20	+ 4 57.4	1.666	2.656	0.9	20.8
3 12	10 42.22	+ 6 7.4	1.686	2.666	4.4	21.1
3 22	10 35.27	+ 7 11.7	1.734	2.676	8.7	21.3
4 1	10 30.15	+ 8 4.6	1.807	2.686	12.4	21.6

203872 2002 XP_{39} 3 1.6 139°.33 0°.1/ 1.7 17

1 22	11 14.41	+ 4 41.8	2.635	3.388	12.2	21.2
2 1	11 10.46	+ 5 2.6	2.545	3.396	9.7	21.0
2 11	11 4.81	+ 5 33.9	2.478	3.405	6.7	20.8
2 21	10 57.86	+ 6 13.0	2.439	3.413	3.4	20.6
3 2	10 50.22	+ 6 56.1	2.429	3.420	0.2	20.3
3 12	10 42.63	+ 7 38.6	2.450	3.427	3.6	20.7
3 22	10 35.77	+ 8 16.6	2.501	3.434	6.8	20.9
4 1	10 30.23	+ 8 46.8	2.578	3.441	9.7	21.1

165521 2001 CC_{19} 3 1.6 29.°76 1.°5/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 13.48	+ 7 3.8	1.273	2.085	19.7	19.4
2 1	11 11.51	+ 7 42.3	1.207	2.094	15.5	19.2
2 11	11 6.45	+ 8 39.7	1.160	2.104	10.6	18.9
2 21	10 58.95	+ 9 49.4	1.136	2.115	5.1	18.6
3 2	10 50.17	+11 1.6	1.137	2.127	1.8	18.4
3 12	10 41.59	+12 5.9	1.164	2.140	6.8	18.8
3 22	10 34.56	+12 54.0	1.214	2.153	11.8	19.1
4 1	10 30.06	+13 21.7	1.286	2.167	16.2	19.4

88088 2000 WS_{47} 3 1.6 176.°19 0.°1/ 1.7 17

1 22	11 15.22	+ 3 56.4	2.669	3.416	12.2	20.7
2 1	11 11.13	+ 4 29.0	2.570	3.419	9.7	20.6
2 11	11 5.30	+ 5 13.4	2.496	3.421	6.7	20.4
2 21	10 58.13	+ 6 6.6	2.449	3.422	3.4	20.1
3 2	10 50.22	+ 7 4.3	2.432	3.423	0.1	19.8
3 12	10 42.30	+ 8 1.7	2.447	3.423	3.6	20.2
3 22	10 35.07	+ 8 54.1	2.491	3.423	6.9	20.4
4 1	10 29.16	+ 9 37.7	2.563	3.422	9.9	20.6

317600 2002 XE_{74} 3 1.6 116.°61 2.°4/28.4 18

1 22	11 19.76	+11 35.9	2.090	2.867	14.2	21.0
2 1	11 15.05	+12 19.3	2.018	2.886	11.1	20.8
2 11	11 8.13	+13 11.2	1.969	2.905	7.5	20.6
2 21	10 59.55	+14 6.0	1.948	2.924	3.9	20.4
3 2	10 50.16	+14 57.4	1.956	2.941	2.6	20.4
3 12	10 40.96	+15 39.5	1.994	2.958	5.7	20.6
3 22	10 32.86	+16 8.3	2.060	2.974	9.2	20.8
4 1	10 26.57	+16 21.9	2.151	2.990	12.3	21.1

341215 2007 RM_{127} 3 1.6 301.°86 2.°8/28.2 17

1 22	11 16.72	+13 36.7	1.972	2.764	14.4	20.4
2 1	11 13.22	+14 0.9	1.869	2.746	11.4	20.2
2 11	11 7.27	+14 32.7	1.789	2.727	7.9	19.9
2 21	10 59.33	+15 7.1	1.734	2.709	4.3	19.6
3 2	10 50.18	+15 38.1	1.707	2.691	3.1	19.5
3 12	10 40.91	+15 59.5	1.709	2.673	6.4	19.7
3 22	10 32.58	+16 7.4	1.737	2.656	10.3	19.9
4 1	10 26.10	+15 59.6	1.789	2.639	13.9	20.1

133587 2003 UL_{64} 3 1.6 198.°21 2.°8/27.9 18

1 22	11 17.22	+10 58.6	1.956	2.742	14.7	21.0
2 1	11 13.51	+11 59.5	1.865	2.739	11.6	20.8
2 11	11 7.39	+13 12.5	1.798	2.736	7.9	20.5
2 21	10 59.35	+14 31.4	1.756	2.732	4.2	20.3
3 2	10 50.20	+15 48.4	1.744	2.728	3.1	20.2
3 12	10 41.00	+16 55.3	1.761	2.723	6.5	20.4
3 22	10 32.80	+17 46.3	1.805	2.718	10.3	20.6
4 1	10 26.48	+18 18.1	1.873	2.712	13.8	20.8

176232 2001 QB_{158} 3 1.6 249.°14 0.°2/ 1.3 18

1 22	11 12.52	+ 2 14.2	1.927	2.695	15.5	20.3
2 1	11 9.89	+ 3 17.0	1.825	2.685	12.4	20.1
2 11	11 4.97	+ 4 40.6	1.744	2.676	8.7	19.8
2 21	10 58.17	+ 6 21.0	1.690	2.666	4.3	19.6
3 2	10 50.25	+ 8 10.6	1.664	2.655	0.4	19.2
3 12	10 42.18	+10 0.1	1.668	2.645	5.0	19.5
3 22	10 34.99	+11 40.1	1.700	2.634	9.4	19.8
4 1	10 29.54	+13 3.8	1.757	2.623	13.4	20.0

182274 2001 KY_{1} 3 1.6 192.°62 1.°9/ 4.4 18

1 22	11 14.16	− 3 1.3	3.734	4.432	9.8	21.2
2 1	11 9.78	− 2 54.3	3.619	4.429	8.0	21.1
2 11	11 4.12	− 2 36.9	3.529	4.425	6.0	20.9
2 21	10 57.48	− 2 10.0	3.466	4.421	3.7	20.8
3 2	10 50.29	− 1 35.5	3.434	4.416	2.0	20.6
3 12	10 43.06	− 0 56.1	3.434	4.410	2.7	20.7
3 22	10 36.28	− 0 14.7	3.465	4.403	4.9	20.8
4 1	10 30.40	+ 0 25.4	3.525	4.395	7.2	21.0

324513 2006 VD_{51} 3 1.6 153.°33 1.°7/ 3.3 18

1 22	11 17.18	− 0 9.6	2.201	2.939	14.7	21.5
2 1	11 13.05	+ 0 1.9	2.109	2.947	11.9	21.3
2 11	11 6.82	+ 0 28.9	2.039	2.954	8.6	21.1
2 21	10 58.97	+ 1 9.6	1.994	2.961	4.9	20.9
3 2	10 50.23	+ 2 0.0	1.979	2.967	1.7	20.7
3 12	10 41.51	+ 2 54.7	1.993	2.973	4.0	20.8
3 22	10 33.68	+ 3 48.1	2.037	2.978	7.6	21.1
4 1	10 27.49	+ 4 35.1	2.107	2.982	11.0	21.3

80360 1999 XM_{130} 3 1.6 346.°40 5.°1/27.5 18

1 22	11 18.45	+15 21.2	1.208	2.033	19.7	18.9
2 1	11 15.98	+16 2.6	1.134	2.029	15.6	18.7
2 11	11 9.91	+16 54.6	1.080	2.025	10.9	18.4
2 21	11 0.87	+17 48.0	1.047	2.022	6.4	18.1
3 2	10 50.15	+18 31.7	1.039	2.020	5.5	18.1
3 12	10 39.50	+18 55.8	1.055	2.018	9.6	18.3
3 22	10 30.61	+18 55.3	1.094	2.017	14.5	18.5
4 1	10 24.69	+18 29.8	1.152	2.016	19.0	18.8

369300 2009 SU_{34} 3 1.6 77.°60 2.°3/ 3.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 14.71	− 1 25.1	1.894	2.644	16.4	21.5
2 1	11 11.44	− 1 18.4	1.811	2.655	13.3	21.3
2 11	11 5.87	− 0 53.1	1.749	2.665	9.7	21.1
2 21	10 58.54	− 0 11.2	1.711	2.676	5.7	20.9
3 2	10 50.26	+ 0 43.2	1.700	2.687	2.4	20.7
3 12	10 42.05	+ 1 43.7	1.717	2.697	4.3	20.8
3 22	10 34.87	+ 2 43.6	1.763	2.708	8.2	21.1
4 1	10 29.50	+ 3 36.7	1.833	2.719	11.9	21.3

176671 2002 PR_{38} 3 1.6 166.°40 0.°4/ 1.3 18

1 22	11 16.01	+ 4 23.3	2.010	2.776	15.0	21.0
2 1	11 12.39	+ 5 6.3	1.920	2.780	12.0	20.8
2 11	11 6.52	+ 6 5.0	1.852	2.783	8.3	20.5
2 21	10 58.88	+ 7 15.3	1.811	2.786	4.1	20.3
3 2	10 50.25	+ 8 31.0	1.798	2.789	0.5	20.0
3 12	10 41.62	+ 9 44.4	1.815	2.791	4.7	20.3
3 22	10 33.95	+10 49.1	1.860	2.792	8.8	20.6
4 1	10 28.03	+11 40.1	1.930	2.793	12.5	20.8

78525 2002 RY_{97} 3 1.6 91.°77 1.°7/29.0 18

1 22	11 17.29	+11 8.9	2.234	3.011	13.4	19.7
2 1	11 13.05	+11 29.2	2.153	3.021	10.5	19.5
2 11	11 6.75	+11 57.1	2.095	3.031	7.1	19.3
2 21	10 58.90	+12 28.2	2.064	3.041	3.6	19.1
3 2	10 50.25	+12 57.9	2.063	3.050	1.9	19.0
3 12	10 41.73	+13 21.2	2.091	3.060	5.0	19.2
3 22	10 34.15	+13 35.0	2.147	3.070	8.4	19.5
4 1	10 28.22	+13 37.2	2.228	3.079	11.5	19.7

57114 2001 OY_{85} 3 1.6 157.°17 0.°7/ 2.3 18

1 22	11 17.68	+ 2 52.6	2.377	3.122	13.6	20.5
2 1	11 13.27	+ 3 9.5	2.285	3.130	10.9	20.4
2 11	11 6.88	+ 3 39.1	2.215	3.137	7.6	20.2
2 21	10 58.98	+ 4 18.9	2.173	3.144	4.0	19.9
3 2	10 50.26	+ 5 4.9	2.160	3.150	0.7	19.7
3 12	10 41.57	+ 5 52.0	2.177	3.156	3.8	19.9
3 22	10 33.72	+ 6 35.4	2.224	3.160	7.4	20.2
4 1	10 27.40	+ 7 11.2	2.298	3.165	10.6	20.4

462286 2008 FC_{39} 3 1.6 125.°44 7.°4/24.0 18

1 22	11 23.08	+26 20.9	1.939	2.736	14.4	20.7
2 1	11 18.14	+27 26.0	1.874	2.744	11.7	20.6
2 11	11 10.51	+28 28.6	1.832	2.752	9.1	20.4
2 21	11 0.84	+29 20.1	1.815	2.759	7.5	20.3
3 2	10 50.18	+29 52.3	1.826	2.767	7.9	20.4
3 12	10 39.77	+30 0.1	1.864	2.774	10.0	20.5
3 22	10 30.75	+29 42.7	1.926	2.781	12.7	20.7
4 1	10 23.95	+29 2.3	2.010	2.788	15.2	20.9

68671 2002 CC_{112} 3 1.6 90.°64 0.°1/ 1.7 18

1 22	11 14.14	+ 2 43.6	2.027	2.790	15.0	18.9
2 1	11 10.77	+ 3 29.8	1.950	2.807	11.9	18.7
2 11	11 5.28	+ 4 32.2	1.895	2.824	8.2	18.5
2 21	10 58.20	+ 5 46.7	1.867	2.841	4.2	18.3
3 2	10 50.30	+ 7 6.8	1.867	2.858	0.2	18.0
3 12	10 42.53	+ 8 25.2	1.897	2.875	4.3	18.4
3 22	10 35.73	+ 9 35.3	1.955	2.891	8.3	18.6
4 1	10 30.62	+10 32.2	2.039	2.907	11.7	18.9

377893 2006 DB_{76} 3 1.6 125.°54 0.°9/29.7 17

1 22	11 13.87	+ 6 16.1	2.133	2.906	14.1	21.4
2 1	11 10.54	+ 7 0.0	2.047	2.912	11.1	21.2
2 11	11 5.15	+ 7 57.1	1.984	2.918	7.6	21.0
2 21	10 58.16	+ 9 3.0	1.947	2.923	3.7	20.7
3 2	10 50.31	+10 11.8	1.939	2.929	1.0	20.5
3 12	10 42.49	+11 16.7	1.960	2.934	4.7	20.8
3 22	10 35.56	+12 12.1	2.010	2.939	8.5	21.0
4 1	10 30.24	+12 54.1	2.085	2.944	11.8	21.3

431619 2007 VB_{310} 3 1.6 139.°57 0.°9/29.5 17

1 22	11 14.20	+ 8 11.0	2.664	3.429	11.8	22.1
2 1	11 10.32	+ 8 41.7	2.575	3.437	9.2	22.0
2 11	11 4.73	+ 9 21.2	2.512	3.444	6.3	21.8
2 21	10 57.87	+10 6.0	2.475	3.452	3.1	21.6
3 2	10 50.33	+10 51.7	2.469	3.459	1.1	21.4
3 12	10 42.84	+11 33.7	2.494	3.466	4.0	21.6
3 22	10 36.07	+12 8.4	2.547	3.472	7.1	21.9
4 1	10 30.62	+12 33.1	2.627	3.478	9.9	22.0

412971 2014 QJ_{351} 3 1.6 40.°35 0.°8/29.9 18

1 22	11 13.93	+ 5 13.4	1.538	2.330	17.8	20.8
2 1	11 11.44	+ 5 55.9	1.459	2.334	14.1	20.6
2 11	11 6.23	+ 6 57.2	1.400	2.339	9.7	20.3
2 21	10 58.86	+ 8 12.2	1.366	2.343	4.8	20.0
3 2	10 50.28	+ 9 32.5	1.358	2.349	1.0	19.8
3 12	10 41.76	+10 48.4	1.377	2.354	5.8	20.1
3 22	10 34.49	+11 51.9	1.422	2.359	10.6	20.4
4 1	10 29.40	+12 37.3	1.491	2.365	14.8	20.7

505953 2015 FL_{178} 3 1.6 235.°59 7.°4/21.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 23.31	+33 4.6	2.683	3.459	11.4	21.2
2 1	11 17.75	+33 57.5	2.603	3.450	9.6	21.1
2 11	11 9.98	+34 44.4	2.548	3.441	8.1	21.0
2 21	11 0.54	+35 18.4	2.519	3.432	7.4	20.9
3 2	10 50.23	+35 33.6	2.518	3.423	7.9	20.9
3 12	10 40.03	+35 26.5	2.544	3.413	9.4	21.0
3 22	10 30.88	+34 56.9	2.596	3.403	11.3	21.1
4 1	10 23.51	+34 6.6	2.670	3.393	13.2	21.3

202095 2004 TQ_{20} 3 1.6 213.°63 1.°3/29.4 18

1 22	11 17.53	+ 6 54.5	1.867	2.643	15.7	21.2
2 1	11 13.93	+ 7 42.1	1.770	2.637	12.4	21.0
2 11	11 7.82	+ 8 45.3	1.695	2.630	8.5	20.7
2 21	10 59.65	+ 9 59.4	1.645	2.622	4.2	20.5
3 2	10 50.26	+11 17.1	1.624	2.614	1.6	20.2
3 12	10 40.75	+12 29.9	1.633	2.605	5.7	20.5
3 22	10 32.25	+13 30.8	1.669	2.595	10.1	20.7
4 1	10 25.67	+14 14.9	1.729	2.585	14.0	20.9

62133 2000 SD_5 3 1.6 208.°15 9.°9/21.7 18

1 22	11 31.52	+34 20.7	2.026	2.802	14.6	19.7
2 1	11 25.12	+35 36.6	1.952	2.796	12.5	19.5
2 11	11 15.55	+36 44.9	1.900	2.789	10.7	19.4
2 21	11 3.49	+37 35.0	1.874	2.781	9.9	19.3
3 2	10 50.11	+37 57.6	1.875	2.773	10.5	19.3
3 12	10 36.93	+37 47.8	1.901	2.764	12.3	19.4
3 22	10 25.35	+37 6.0	1.951	2.754	14.6	19.6
4 1	10 16.41	+35 56.7	2.022	2.743	16.9	19.7

145585 2006 PU_{15} 3 1.6 273.°45 1.°1/29.7 17

1 22	11 17.27	+ 7 38.4	1.715	2.500	16.5	20.7
2 1	11 14.10	+ 8 1.9	1.611	2.482	13.2	20.5
2 11	11 8.17	+ 8 40.1	1.528	2.464	9.2	20.2
2 21	10 59.94	+ 9 28.7	1.469	2.446	4.6	19.9
3 2	10 50.24	+10 21.5	1.438	2.428	1.3	19.6
3 12	10 40.31	+11 10.8	1.434	2.409	5.9	19.9
3 22	10 31.39	+11 49.6	1.457	2.391	10.7	20.1
4 1	10 24.57	+12 13.4	1.504	2.372	15.1	20.3

461954 2006 TP_{79} 3 1.6 69.°09 2.°6/ 3.7 18

1 22	11 17.47	− 0 50.7	1.665	2.422	18.0	21.7
2 1	11 13.90	− 1 0.0	1.590	2.437	14.7	21.5
2 11	11 7.71	− 0 50.3	1.533	2.452	10.7	21.3
2 21	10 59.52	− 0 23.1	1.501	2.467	6.3	21.0
3 2	10 50.27	+ 0 17.7	1.495	2.482	2.8	20.8
3 12	10 41.16	+ 1 5.7	1.517	2.497	4.8	21.0
3 22	10 33.30	+ 1 53.8	1.565	2.512	9.0	21.3
4 1	10 27.54	+ 2 36.0	1.638	2.527	12.9	21.5

455751 2005 JE_{152} 3 1.6 328.°49 0.°8/ 1.1 18

1 22	11 14.25	+ 6 46.8	1.406	2.208	18.6	21.1
2 1	11 12.16	+ 7 2.2	1.317	2.198	14.9	20.8
2 11	11 7.05	+ 7 34.5	1.247	2.188	10.4	20.5
2 21	10 59.43	+ 8 19.8	1.200	2.178	5.2	20.2
3 2	10 50.27	+ 9 10.9	1.179	2.169	0.9	19.9
3 12	10 41.00	+ 9 59.1	1.183	2.161	6.2	20.2
3 22	10 33.01	+10 36.7	1.212	2.154	11.5	20.5
4 1	10 27.44	+10 58.3	1.262	2.147	16.2	20.7

216728 2005 GC_{97} 3 1.6 223.°42 1.°6/29.1 16

1 22	11 17.95	+ 9 11.0	2.130	2.904	14.1	21.9
2 1	11 13.94	+ 9 48.8	2.028	2.894	11.1	21.6
2 11	11 7.65	+10 38.0	1.949	2.884	7.6	21.4
2 21	10 59.51	+11 34.1	1.896	2.872	3.8	21.1
3 2	10 50.28	+12 31.2	1.872	2.861	1.8	21.0
3 12	10 40.93	+13 22.7	1.879	2.848	5.4	21.2
3 22	10 32.45	+14 3.3	1.913	2.835	9.3	21.4
4 1	10 25.69	+14 29.5	1.972	2.822	12.8	21.6

475200 2005 VR_3 3 1.6 53.°28 15.°3/25.7 17

1 22	11 41.90	+35 46.7	0.933	1.750	24.8	20.6
2 1	11 35.55	+36 49.2	0.897	1.768	21.1	20.4
2 11	11 23.56	+37 32.9	0.877	1.786	17.7	20.3
2 21	11 7.46	+37 39.0	0.876	1.804	15.5	20.2
3 2	10 49.98	+36 53.9	0.895	1.823	15.6	20.3
3 12	10 34.20	+35 17.4	0.936	1.843	17.7	20.5
3 22	10 22.30	+33 0.5	0.996	1.863	20.8	20.8
4 1	10 15.21	+30 18.2	1.074	1.883	23.8	21.0

235952 2005 EX_{165} 3 1.6 214.°04 2.°6/27.9 18

1 22	11 18.35	+15 4.2	2.619	3.394	11.7	20.9
2 1	11 13.71	+15 30.1	2.521	3.388	9.2	20.7
2 11	11 7.16	+16 0.4	2.448	3.382	6.3	20.5
2 21	10 59.14	+16 31.0	2.402	3.375	3.6	20.3
3 2	10 50.30	+16 57.2	2.387	3.368	2.9	20.2
3 12	10 41.46	+17 14.8	2.402	3.361	5.3	20.4
3 22	10 33.40	+17 21.1	2.446	3.353	8.3	20.5
4 1	10 26.78	+17 15.0	2.516	3.345	11.0	20.7

234775 2002 PQ_{133} 3 1.6 197.°33 0.°8/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 15.66	+ 3 3.2	2.397	3.147	13.3	21.2
2 1	11 11.75	+ 3 9.7	2.297	3.145	10.7	21.0
2 11	11 5.91	+ 3 28.2	2.220	3.143	7.6	20.8
2 21	10 58.55	+ 3 56.7	2.170	3.141	4.1	20.5
3 2	10 50.34	+ 4 31.6	2.148	3.139	0.9	20.3
3 12	10 42.09	+ 5 8.5	2.157	3.136	3.7	20.5
3 22	10 34.62	+ 5 42.9	2.194	3.133	7.3	20.7
4 1	10 28.61	+ 6 11.1	2.258	3.130	10.6	20.9

129488 1994 SW_2 3 1.6 312.°30 0.°8/ 1.1 18

1 22	11 16.52	+ 8 18.9	1.781	2.567	15.9	19.4
2 1	11 13.31	+ 8 22.1	1.680	2.551	12.7	19.1
2 11	11 7.51	+ 8 36.6	1.600	2.536	8.9	18.8
2 21	10 59.55	+ 8 58.9	1.544	2.521	4.4	18.5
3 2	10 50.29	+ 9 24.1	1.516	2.507	0.9	18.2
3 12	10 40.88	+ 9 46.3	1.516	2.493	5.4	18.5
3 22	10 32.49	+10 0.6	1.542	2.479	10.0	18.8
4 1	10 26.09	+10 3.5	1.593	2.466	14.1	19.0

282523 2004 RX_{103} 3 1.6 184.°75 2.°6/ 4.0 18

1 22	11 18.52	− 2 49.6	2.050	2.778	15.9	21.7
2 1	11 14.41	− 2 41.3	1.950	2.779	13.1	21.5
2 11	11 7.97	− 2 14.4	1.871	2.779	9.7	21.3
2 21	10 59.67	− 1 29.8	1.817	2.778	5.9	21.1
3 2	10 50.29	− 0 31.2	1.791	2.776	2.8	20.9
3 12	10 40.84	+ 0 35.5	1.795	2.774	4.4	21.0
3 22	10 32.30	+ 1 43.4	1.828	2.770	8.2	21.2
4 1	10 25.54	+ 2 46.0	1.886	2.766	11.9	21.4

145339 2005 MD_3 3 1.6 205.°28 2.°2/27.7 18

1 22	11 12.21	+11 44.3	2.754	3.532	11.1	20.3
2 1	11 8.83	+12 41.2	2.658	3.528	8.7	20.2
2 11	11 3.77	+13 46.0	2.588	3.525	5.9	20.0
2 21	10 57.44	+14 54.3	2.545	3.521	3.1	19.8
3 2	10 50.38	+16 0.7	2.534	3.516	2.5	19.7
3 12	10 43.30	+17 0.0	2.552	3.512	4.9	19.9
3 22	10 36.86	+17 48.2	2.599	3.507	7.8	20.1
4 1	10 31.65	+18 22.5	2.672	3.502	10.5	20.2

321541 2009 SW_{275} 3 1.6 148.°92 0.°9/29.6 16

1 22	11 16.65	+ 7 21.7	2.347	3.111	13.2	22.0
2 1	11 12.49	+ 7 58.5	2.260	3.121	10.4	21.8
2 11	11 6.37	+ 8 46.2	2.197	3.129	7.1	21.6
2 21	10 58.75	+ 9 40.7	2.161	3.137	3.5	21.4
3 2	10 50.33	+10 36.8	2.155	3.145	1.1	21.2
3 12	10 41.97	+11 28.8	2.179	3.152	4.4	21.5
3 22	10 34.46	+12 12.1	2.232	3.158	8.0	21.7
4 1	10 28.49	+12 43.5	2.311	3.164	11.1	21.9

192276 2498 $T\text{-}_3$ 3 1.6 261.°97 2.°3/28.5 17

1 22	11 18.49	+12 10.9	2.220	2.998	13.4	20.6
2 1	11 14.37	+12 38.7	2.109	2.978	10.6	20.4
2 11	11 7.97	+13 14.7	2.021	2.957	7.3	20.1
2 21	10 59.71	+13 54.6	1.960	2.935	3.9	19.9
3 2	10 50.30	+14 32.9	1.928	2.914	2.5	19.7
3 12	10 40.70	+15 3.7	1.926	2.891	5.7	19.9
3 22	10 31.91	+15 22.8	1.951	2.869	9.4	20.1
4 1	10 24.79	+15 27.8	2.002	2.845	12.9	20.2

2151 Hadwiger 3 1.6 34.°37 8.°3/24.6 18

1 22	11 24.24	+26 40.1	1.629	2.434	16.3	14.9
2 1	11 19.62	+27 35.5	1.562	2.437	13.3	14.7
2 11	11 11.85	+28 27.9	1.517	2.440	10.4	14.5
2 21	11 1.64	+29 7.1	1.496	2.444	8.4	14.4
3 2	10 50.23	+29 24.0	1.502	2.448	8.8	14.4
3 12	10 39.13	+29 13.1	1.533	2.452	11.1	14.6
3 22	10 29.69	+28 34.4	1.587	2.456	14.2	14.8
4 1	10 22.89	+27 31.3	1.663	2.461	17.1	15.0

361606 2007 SS_{23} 3 1.6 195.°47 4.°9/26.3 17

1 22	11 24.11	+19 39.2	2.103	2.886	13.9	21.9
2 1	11 18.82	+20 27.5	2.014	2.884	11.0	21.7
2 11	11 10.99	+21 19.1	1.950	2.880	7.9	21.5
2 21	11 1.17	+22 6.9	1.912	2.876	5.4	21.3
3 2	10 50.25	+22 43.7	1.904	2.871	5.3	21.3
3 12	10 39.37	+23 3.6	1.925	2.866	7.8	21.5
3 22	10 29.61	+23 4.0	1.974	2.859	11.0	21.6
4 1	10 21.86	+22 45.1	2.046	2.852	14.0	21.8

38901 2000 SQ_{157} 3 1.6 328.°82 2.°6/ 3.6 18

1 22	11 14.94	− 0 36.9	1.456	2.230	19.4	19.3
2 1	11 12.56	− 0 43.9	1.367	2.225	16.0	19.1
2 11	11 7.25	− 0 28.9	1.297	2.221	11.7	18.8
2 21	10 59.52	+ 0 6.8	1.248	2.217	6.9	18.5
3 2	10 50.33	+ 0 59.3	1.225	2.213	2.8	18.3
3 12	10 41.04	+ 2 0.7	1.228	2.210	5.4	18.4
3 22	10 32.98	+ 3 2.3	1.256	2.206	10.4	18.7
4 1	10 27.27	+ 3 55.7	1.308	2.204	15.0	18.9

42983 1999 TJ_{228} 3 1.6 189°.07 0°.7/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 17.48	+ 6 7.8	1.939	2.710	15.3	20.3
2 1	11 13.72	+ 6 42.1	1.846	2.709	12.2	20.1
2 11	11 7.56	+ 7 30.8	1.775	2.708	8.4	19.9
2 21	10 59.50	+ 8 29.8	1.731	2.707	4.1	19.6
3 2	10 50.34	+ 9 32.8	1.714	2.705	0.9	19.4
3 12	10 41.15	+10 32.7	1.727	2.702	5.1	19.7
3 22	10 32.96	+11 23.1	1.768	2.699	9.3	19.9
4 1	10 26.63	+11 59.9	1.834	2.696	13.0	20.1

373484 2000 UG_{3} 3 1.6 75°.18 13°.7/15.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.80	−26 17.8	1.182	1.845	28.5	20.6
2 1	11 11.70	−27 4.5	1.112	1.857	25.9	20.5
2 11	11 7.09	−27 3.9	1.052	1.870	22.7	20.3
2 21	10 59.56	−26 7.0	1.006	1.882	19.2	20.1
3 2	10 50.34	−24 9.6	0.977	1.895	15.8	19.9
3 12	10 41.19	−21 18.1	0.969	1.907	13.8	19.8
3 22	10 33.77	−17 49.7	0.984	1.920	14.3	19.9
4 1	10 29.31	−14 7.7	1.022	1.932	16.8	20.1

286413 2001 YE_{120} 3 1.6 16°.15 4°.1/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.95	− 0 58.6	1.333	2.107	20.9	19.8
2 1	11 15.14	− 1 42.6	1.254	2.109	17.3	19.5
2 11	11 9.12	− 2 6.5	1.192	2.112	12.9	19.3
2 21	11 0.48	− 2 9.7	1.151	2.115	8.0	19.0
3 2	10 50.31	− 1 54.1	1.135	2.119	4.3	18.8
3 12	10 40.14	− 1 25.5	1.144	2.124	6.1	18.9
3 22	10 31.44	− 0 51.3	1.178	2.129	10.8	19.2
4 1	10 25.36	− 0 19.2	1.234	2.134	15.3	19.4

491226 2011 UZ_{184} 3 1.6 192°.75 4°.1/27.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.82	+13 32.3	1.666	2.467	16.2	21.0
2 1	11 14.46	+14 38.3	1.585	2.466	12.8	20.8
2 11	11 8.33	+15 55.9	1.525	2.465	8.8	20.6
2 21	10 59.97	+17 17.2	1.490	2.464	5.1	20.3
3 2	10 50.34	+18 32.3	1.483	2.463	4.5	20.3
3 12	10 40.73	+19 32.3	1.504	2.461	8.0	20.5
3 22	10 32.35	+20 11.3	1.550	2.459	12.0	20.7
4 1	10 26.17	+20 27.1	1.618	2.456	15.7	21.0

155931 2001 PV_{58} 3 1.6 240°.36 1°.1/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.42	+ 5 56.4	1.709	2.489	16.7	20.9
2 1	11 14.20	+ 6 38.8	1.608	2.476	13.4	20.7
2 11	11 8.25	+ 7 39.3	1.528	2.463	9.3	20.4
2 21	11 0.01	+ 8 53.2	1.473	2.450	4.6	20.1
3 2	10 50.34	+10 13.3	1.445	2.435	1.2	19.8
3 12	10 40.46	+11 30.1	1.446	2.421	5.9	20.1
3 22	10 31.61	+12 35.5	1.474	2.405	10.8	20.3
4 1	10 24.86	+13 23.5	1.525	2.389	15.1	20.5

135422 2001 UT_{80} 3 1.6 186°.18 1°.5/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.82	− 0 58.2	3.059	3.782	11.3	21.6
2 1	11 9.08	− 0 39.9	2.953	3.782	9.1	21.5
2 11	11 3.85	− 0 9.5	2.871	3.781	6.6	21.3
2 21	10 57.48	+ 0 31.5	2.816	3.780	3.9	21.1
3 2	10 50.46	+ 1 20.4	2.791	3.778	1.5	20.9
3 12	10 43.42	+ 2 13.2	2.796	3.775	3.0	21.0
3 22	10 36.94	+ 3 5.8	2.833	3.773	5.8	21.2
4 1	10 31.55	+ 3 54.4	2.897	3.769	8.5	21.4

359698 2011 SG_{215} 3 1.6 78°.27 2°.5/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.29	+11 6.5	1.512	2.310	17.8	20.9
2 1	11 16.45	+11 36.6	1.442	2.321	14.0	20.7
2 11	11 9.67	+12 18.2	1.392	2.333	9.5	20.5
2 21	11 0.60	+13 5.0	1.367	2.344	4.8	20.2
3 2	10 50.35	+13 49.0	1.368	2.356	2.8	20.1
3 12	10 40.31	+14 22.6	1.397	2.367	6.8	20.4
3 22	10 31.76	+14 40.8	1.451	2.379	11.3	20.7
4 1	10 25.63	+14 41.5	1.529	2.390	15.2	21.0

463718 2014 QV_{225} 3 1.6 74°.23 0°.7/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.98	+ 3 55.0	1.678	2.445	17.5	21.9
2 1	11 16.47	+ 4 0.1	1.614	2.472	13.9	21.7
2 11	11 9.36	+ 4 20.6	1.570	2.498	9.7	21.5
2 21	11 0.32	+ 4 52.9	1.551	2.524	5.0	21.3
3 2	10 50.36	+ 5 31.7	1.559	2.550	0.7	21.0
3 12	10 40.72	+ 6 10.5	1.597	2.576	4.7	21.4
3 22	10 32.46	+ 6 43.7	1.661	2.601	9.1	21.7
4 1	10 26.37	+ 7 7.1	1.750	2.626	12.9	22.0

334933 2004 BB_{34} 3 1.6 145°.42 3°.8/ 5.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.12	− 5 12.6	2.494	3.199	14.0	21.1
2 1	11 12.83	− 5 41.4	2.396	3.204	11.7	20.9
2 11	11 6.62	− 5 55.8	2.319	3.209	9.0	20.8
2 21	10 58.94	− 5 55.5	2.267	3.214	6.1	20.6
3 2	10 50.42	− 5 41.8	2.244	3.218	3.9	20.5
3 12	10 41.88	− 5 17.6	2.251	3.222	4.5	20.5
3 22	10 34.10	− 4 47.0	2.286	3.226	7.0	20.7
4 1	10 27.76	− 4 14.6	2.349	3.230	9.8	20.8

148972 2001 XN_{237} 3 1.6 160°.56 0°.9/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 17.56	+ 2 11.4	2.408	3.149	13.5	20.7
2 1	11 13.19	+ 2 25.0	2.314	3.156	10.8	20.5
2 11	11 6.88	+ 2 51.4	2.242	3.162	7.7	20.3
2 21	10 59.06	+ 3 28.4	2.198	3.168	4.1	20.1
3 2	10 50.43	+ 4 12.2	2.183	3.173	0.9	19.9
3 12	10 41.81	+ 4 58.0	2.199	3.177	3.7	20.1
3 22	10 34.01	+ 5 41.0	2.244	3.181	7.2	20.3
4 1	10 27.70	+ 6 17.2	2.316	3.184	10.4	20.5

415930 2001 VL_{49} 3 1.6 104°.59 5°.2/ 7.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.16	−11 23.4	2.274	2.949	15.9	21.7
2 1	11 13.70	−11 39.1	2.194	2.975	13.5	21.6
2 11	11 7.21	−11 34.0	2.134	3.000	10.7	21.4
2 21	10 59.20	−11 7.9	2.098	3.025	7.9	21.3
3 2	10 50.43	−10 22.4	2.089	3.049	5.6	21.2
3 12	10 41.77	− 9 22.0	2.109	3.072	5.5	21.2
3 22	10 34.08	− 8 12.9	2.158	3.094	7.5	21.4
4 1	10 28.01	− 7 1.8	2.233	3.116	10.2	21.6

204588 2005 GE_{70} 3 1.6 187°.39 0°.4/ 1.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.62	+ 6 19.7	2.482	3.244	12.6	21.2
2 1	11 10.88	+ 6 42.3	2.385	3.243	10.0	21.0
2 11	11 5.28	+ 7 15.3	2.312	3.243	6.9	20.8
2 21	10 58.27	+ 7 55.6	2.266	3.242	3.4	20.6
3 2	10 50.46	+ 8 39.0	2.250	3.241	0.5	20.3
3 12	10 42.64	+ 9 20.8	2.264	3.240	4.0	20.6
3 22	10 35.57	+ 9 56.6	2.306	3.238	7.4	20.8
4 1	10 29.89	+10 23.1	2.375	3.236	10.5	21.0

295538 2008 RO_{141} 3 1.6 145°.12 0°.3/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.10	+ 6 26.8	2.221	2.985	13.8	21.4
2 1	11 13.01	+ 6 41.1	2.131	2.990	11.0	21.2
2 11	11 6.84	+ 7 6.3	2.064	2.994	7.6	21.0
2 21	10 59.07	+ 7 39.1	2.024	2.999	3.8	20.8
3 2	10 50.43	+ 8 15.2	2.012	3.003	0.4	20.5
3 12	10 41.82	+ 8 49.5	2.031	3.007	4.3	20.8
3 22	10 34.12	+ 9 17.8	2.078	3.011	8.0	21.0
4 1	10 28.03	+ 9 36.6	2.150	3.014	11.3	21.3

371679 2007 DF_{15} 3 1.6 161°.16 3°.7/26.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.41	+12 2.4	1.904	2.701	14.6	21.1
2 1	11 10.61	+13 29.2	1.821	2.702	11.4	20.9
2 11	11 5.47	+15 8.8	1.762	2.703	7.8	20.6
2 21	10 58.48	+16 53.3	1.730	2.704	4.5	20.4
3 2	10 50.45	+18 33.4	1.726	2.705	4.1	20.4
3 12	10 42.42	+19 59.9	1.751	2.705	7.3	20.6
3 22	10 35.37	+21 6.5	1.802	2.706	10.9	20.8
4 1	10 30.14	+21 50.0	1.877	2.706	14.2	21.0

405562 2005 OJ_{3} 3 1.6 64°.15 2°.3/ 3.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 24.32	− 2 49.2	1.945	2.666	16.9	22.5
2 1	11 18.37	− 2 27.8	1.898	2.723	13.6	22.4
2 11	11 10.22	− 1 47.8	1.871	2.779	9.8	22.2
2 21	11 0.58	− 0 52.4	1.871	2.833	5.7	22.1
3 2	10 50.39	+ 0 13.0	1.900	2.887	2.4	22.0
3 12	10 40.70	+ 1 21.5	1.960	2.939	4.1	22.2
3 22	10 32.37	+ 2 26.7	2.050	2.990	7.6	22.5
4 1	10 26.03	+ 3 23.2	2.166	3.040	10.8	22.8

66417 1999 NC_{10} 3 1.6 123°.44 1°.5/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.92	+ 1 37.6	1.834	2.587	16.7	20.0
2 1	11 15.65	+ 1 38.3	1.751	2.599	13.5	19.8
2 11	11 8.87	+ 1 55.1	1.689	2.611	9.6	19.6
2 21	11 0.16	+ 2 25.7	1.652	2.622	5.3	19.3
3 2	10 50.40	+ 3 6.0	1.643	2.633	1.6	19.1
3 12	10 40.73	+ 3 49.8	1.663	2.643	4.5	19.3
3 22	10 32.22	+ 4 31.1	1.711	2.653	8.8	19.6
4 1	10 25.71	+ 5 4.9	1.784	2.662	12.6	19.8

209071 2003 QM_{101} 3 1.6 232°.83 0°.7/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.33	+ 6 37.4	2.043	2.808	14.8	21.7
2 1	11 15.23	+ 7 3.8	1.934	2.794	11.9	21.5
2 11	11 8.70	+ 7 43.6	1.848	2.779	8.3	21.2
2 21	11 0.17	+ 8 33.2	1.788	2.764	4.1	20.9
3 2	10 50.40	+ 9 27.0	1.757	2.747	0.8	20.7
3 12	10 40.43	+10 18.5	1.755	2.730	5.0	20.9
3 22	10 31.34	+11 1.9	1.782	2.712	9.3	21.1
4 1	10 24.04	+11 32.7	1.834	2.694	13.2	21.3

264647 2001 XV_{35} 3 1.6 73°.25 0°.8/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.53	+ 8 4.8	1.769	2.546	16.3	20.6
2 1	11 16.07	+ 8 14.5	1.699	2.566	12.9	20.5
2 11	11 9.08	+ 8 35.5	1.652	2.586	8.8	20.3
2 21	11 0.20	+ 9 3.5	1.630	2.606	4.3	20.0
3 2	10 50.40	+ 9 33.1	1.635	2.626	0.9	19.8
3 12	10 40.86	+ 9 58.6	1.670	2.646	5.1	20.2
3 22	10 32.61	+10 15.5	1.732	2.666	9.3	20.4
4 1	10 26.46	+10 21.2	1.818	2.685	12.9	20.7

58072 1476 $T\text{-}_2$ 3 1.6 61°.57 1°.5/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 17.87	+11 0.3	2.168	2.946	13.7	19.7
2 1	11 13.58	+11 11.9	2.090	2.958	10.8	19.5
2 11	11 7.18	+11 30.8	2.035	2.970	7.3	19.3
2 21	10 59.21	+11 53.1	2.006	2.983	3.6	19.1
3 2	10 50.45	+12 14.2	2.007	2.995	1.7	19.0
3 12	10 41.83	+12 29.5	2.036	3.008	4.9	19.2
3 22	10 34.21	+12 36.1	2.094	3.020	8.4	19.5
4 1	10 28.29	+12 32.1	2.178	3.033	11.5	19.7

204691 2006 DC_{215} 3 1.6 273°.59 0°.9/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.96	+ 2 59.8	1.611	2.386	17.8	20.9
2 1	11 14.05	+ 3 6.7	1.508	2.370	14.5	20.6
2 11	11 8.30	+ 3 31.9	1.424	2.354	10.3	20.3
2 21	11 0.13	+ 4 13.0	1.364	2.338	5.5	20.0
3 2	10 50.40	+ 5 5.3	1.331	2.321	0.9	19.6
3 12	10 40.41	+ 6 1.2	1.324	2.305	5.3	19.9
3 22	10 31.47	+ 6 52.8	1.344	2.288	10.5	20.1
4 1	10 24.72	+ 7 33.5	1.387	2.271	15.1	20.3

500533 2012 UJ_2 3 1.6 137°.02 1°.0/29.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.97	+ 8 5.8	2.573	3.340	12.1	22.3
2 1	11 10.25	+ 8 40.0	2.485	3.347	9.5	22.1
2 11	11 4.78	+ 9 23.6	2.421	3.354	6.4	21.9
2 21	10 57.99	+10 12.8	2.384	3.361	3.2	21.7
3 2	10 50.49	+11 3.0	2.378	3.367	1.1	21.6
3 12	10 43.04	+11 49.3	2.401	3.373	4.2	21.8
3 22	10 36.33	+12 27.7	2.454	3.379	7.4	22.0
4 1	10 30.96	+12 55.3	2.533	3.385	10.2	22.2

299887 2006 ST_{335} 3 1.6 237°.15 0°.8/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.96	+ 0 41.8	2.447	3.196	13.1	21.2
2 1	11 8.08	+ 1 18.7	2.347	3.193	10.6	21.0
2 11	11 3.41	+ 2 11.1	2.269	3.191	7.5	20.8
2 21	10 57.36	+ 3 16.1	2.217	3.188	4.0	20.6
3 2	10 50.52	+ 4 29.3	2.195	3.185	0.9	20.4
3 12	10 43.64	+ 5 44.9	2.203	3.183	3.6	20.6
3 22	10 37.45	+ 6 56.9	2.240	3.180	7.1	20.8
4 1	10 32.59	+ 8 0.3	2.304	3.177	10.3	21.0

272820 2006 AJ_{71} 3 1.7 208°.32 1°.2/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.85	+ 7 6.4	2.098	2.874	14.1	21.2
2 1	11 10.69	+ 7 52.7	2.005	2.872	11.2	21.0
2 11	11 5.40	+ 8 52.4	1.935	2.870	7.6	20.8
2 21	10 58.42	+10 0.9	1.891	2.868	3.7	20.5
3 2	10 50.49	+11 12.0	1.877	2.866	1.4	20.3
3 12	10 42.53	+12 18.7	1.891	2.864	5.0	20.6
3 22	10 35.44	+13 14.9	1.934	2.861	8.9	20.8
4 1	10 29.98	+13 56.6	2.001	2.858	12.3	21.0

68685 2002 CK_{142} 3 1.7 350°.16 3°.7/ 4.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 8.73	− 2 31.7	1.181	1.975	21.9	18.4
2 1	11 8.27	− 2 45.2	1.098	1.967	18.2	18.1
2 11	11 4.66	− 2 30.9	1.033	1.960	13.6	17.8
2 21	10 58.39	− 1 48.6	0.987	1.955	8.4	17.5
3 2	10 50.49	− 0 42.4	0.964	1.951	4.0	17.2
3 12	10 42.46	+ 0 38.1	0.965	1.948	6.1	17.3
3 22	10 35.83	+ 2 0.9	0.988	1.946	11.4	17.6
4 1	10 31.81	+ 3 14.5	1.033	1.946	16.4	17.9

150452 2000 HM_{39} 3 1.7 185°.15 0°.6/ 1.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.66	+ 5 34.2	2.093	2.861	14.5	21.2
2 1	11 12.10	+ 6 12.2	1.999	2.861	11.5	21.0
2 11	11 6.37	+ 7 4.2	1.929	2.861	7.9	20.8
2 21	10 58.91	+ 8 6.2	1.884	2.860	3.9	20.5
3 2	10 50.48	+ 9 12.5	1.868	2.859	0.7	20.3
3 12	10 42.02	+10 16.2	1.882	2.857	4.7	20.6
3 22	10 34.46	+11 11.4	1.924	2.856	8.7	20.8
4 1	10 28.57	+11 53.7	1.992	2.853	12.2	21.0

495382 2014 PK_{39} 3 1.7 99°.13 1°.0/ 2.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.69	+ 1 4.6	1.763	2.524	17.0	21.4
2 1	11 13.17	+ 1 32.3	1.686	2.540	13.6	21.2
2 11	11 7.20	+ 2 18.9	1.630	2.555	9.6	21.0
2 21	10 59.33	+ 3 21.0	1.598	2.570	5.2	20.8
3 2	10 50.47	+ 4 32.4	1.594	2.585	1.0	20.5
3 12	10 41.74	+ 5 45.2	1.619	2.599	4.6	20.8
3 22	10 34.16	+ 6 52.0	1.671	2.613	8.9	21.1
4 1	10 28.56	+ 7 46.8	1.748	2.627	12.8	21.4

311632 2006 QS_{126} 3 1.7 259°.87 3°.6/27.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.77	+12 46.6	1.820	2.615	15.3	20.9
2 1	11 13.59	+13 48.4	1.719	2.598	12.1	20.7
2 11	11 7.79	+15 2.8	1.641	2.581	8.4	20.4
2 21	10 59.80	+16 22.9	1.589	2.564	4.7	20.2
3 2	10 50.45	+17 40.1	1.565	2.546	4.1	20.1
3 12	10 40.89	+18 45.2	1.569	2.528	7.5	20.2
3 22	10 32.31	+19 31.7	1.599	2.509	11.6	20.4
4 1	10 25.74	+19 56.4	1.652	2.490	15.4	20.6

235240 2003 ST_{290} 3 1.7 194°.92 0°.5/ 2.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 14.63	+ 3 25.5	2.298	3.054	13.7	21.4
2 1	11 11.08	+ 3 43.7	2.200	3.053	10.9	21.2
2 11	11 5.54	+ 4 14.9	2.126	3.051	7.7	21.0
2 21	10 58.46	+ 4 56.5	2.077	3.050	4.0	20.8
3 2	10 50.50	+ 5 44.5	2.058	3.048	0.5	20.5
3 12	10 42.52	+ 6 33.4	2.068	3.047	3.9	20.8
3 22	10 35.33	+ 7 18.2	2.107	3.044	7.6	21.0
4 1	10 29.63	+ 7 54.8	2.171	3.042	10.9	21.2

196579 2003 QD_{41} 3 1.7 248°.83 0°.8/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.08	+ 8 24.0	2.300	3.066	13.4	20.6
2 1	11 13.91	+ 8 36.7	2.192	3.052	10.6	20.4
2 11	11 7.59	+ 8 58.8	2.106	3.038	7.4	20.2
2 21	10 59.54	+ 9 27.1	2.048	3.024	3.7	19.9
3 2	10 50.47	+ 9 57.3	2.019	3.009	0.9	19.7
3 12	10 41.27	+10 24.7	2.019	2.994	4.5	19.9
3 22	10 32.86	+10 44.9	2.049	2.978	8.4	20.1
4 1	10 26.02	+10 55.2	2.104	2.962	11.8	20.3

197515 2004 CX_{57} 3 1.7 193°.63 5°.3/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.25	+20 17.4	2.225	3.026	12.6	20.0
2 1	11 10.95	+21 34.1	2.146	3.026	10.0	19.8
2 11	11 5.54	+22 54.5	2.093	3.026	7.3	19.6
2 21	10 58.47	+24 11.3	2.066	3.025	5.5	19.5
3 2	10 50.51	+25 17.0	2.067	3.025	5.8	19.5
3 12	10 42.57	+26 5.2	2.097	3.025	8.1	19.7
3 22	10 35.55	+26 32.8	2.153	3.025	10.8	19.8
4 1	10 30.19	+26 39.1	2.231	3.025	13.4	20.0

166779 2002 VA_{30} 3 1.7 37°.60 1°.4/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.52	+ 8 34.3	1.925	2.712	14.8	19.8
2 1	11 10.50	+ 9 7.8	1.849	2.722	11.7	19.6
2 11	11 5.26	+ 9 52.9	1.795	2.733	7.9	19.4
2 21	10 58.33	+10 44.8	1.766	2.744	3.9	19.2
3 2	10 50.52	+11 37.3	1.766	2.755	1.6	19.0
3 12	10 42.82	+12 24.0	1.794	2.766	5.2	19.3
3 22	10 36.14	+12 59.8	1.848	2.778	9.1	19.6
4 1	10 31.23	+13 21.6	1.928	2.791	12.5	19.8

269537 2009 VF_{84} 3 1.7 51°.67 2°.9/28.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.91	+12 39.6	1.752	2.549	15.7	20.4
2 1	11 13.38	+13 17.2	1.682	2.561	12.3	20.2
2 11	11 7.34	+14 3.7	1.634	2.574	8.4	20.0
2 21	10 59.40	+14 53.0	1.611	2.587	4.4	19.8
3 2	10 50.48	+15 37.8	1.616	2.600	3.2	19.7
3 12	10 41.76	+16 11.5	1.648	2.614	6.5	20.0
3 22	10 34.27	+16 30.1	1.707	2.627	10.4	20.2
4 1	10 28.81	+16 31.8	1.789	2.641	13.8	20.5

503111 2015 FB_{320} 3 1.7 62°.97 0°.2/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.59	+ 1 47.8	2.287	3.045	13.6	21.4
2 1	11 7.91	+ 2 43.4	2.194	3.048	10.9	21.2
2 11	11 3.36	+ 3 55.6	2.124	3.051	7.6	21.0
2 21	10 57.36	+ 5 20.6	2.080	3.054	3.9	20.8
3 2	10 50.56	+ 6 52.7	2.066	3.057	0.2	20.5
3 12	10 43.76	+ 8 24.5	2.082	3.060	4.0	20.8
3 22	10 37.71	+ 9 49.3	2.127	3.063	7.7	21.0
4 1	10 33.08	+11 1.7	2.198	3.066	11.0	21.2

136188 2003 UC_{232} 3 1.7 119°.78 1°.1/29.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.57	+ 8 9.0	2.208	2.981	13.6	21.7
2 1	11 11.84	+ 8 38.1	2.123	2.988	10.7	21.5
2 11	11 6.05	+ 9 17.5	2.060	2.994	7.3	21.3
2 21	10 58.71	+10 3.5	2.024	3.000	3.6	21.1
3 2	10 50.52	+10 50.7	2.017	3.006	1.2	20.9
3 12	10 42.39	+11 33.6	2.039	3.012	4.6	21.1
3 22	10 35.15	+12 7.7	2.090	3.018	8.3	21.4
4 1	10 29.50	+12 29.9	2.166	3.024	11.5	21.6

348480 2005 SN_{159} 3 1.7 116°.40 1°.9/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 21.58	+ 0 39.2	1.621	2.377	18.5	21.6
2 1	11 17.27	+ 0 40.1	1.544	2.393	14.9	21.4
2 11	11 10.16	+ 1 0.0	1.487	2.408	10.7	21.1
2 21	11 0.88	+ 1 36.5	1.454	2.423	6.0	20.9
3 2	10 50.44	+ 2 24.7	1.448	2.437	2.0	20.7
3 12	10 40.16	+ 3 17.5	1.471	2.451	4.9	20.9
3 22	10 31.22	+ 4 7.6	1.520	2.464	9.5	21.2
4 1	10 24.57	+ 4 49.0	1.594	2.476	13.6	21.5

160580 1999 KG 3 1.7 334°.23 7°.2/ 8.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.27	−12 38.6	1.725	2.432	19.2	19.7
2 1	11 9.31	−13 9.2	1.628	2.426	16.7	19.5
2 11	11 4.85	−13 13.4	1.547	2.420	13.7	19.3
2 21	10 58.32	−12 48.4	1.487	2.414	10.4	19.0
3 2	10 50.53	−11 54.4	1.451	2.409	7.7	18.9
3 12	10 42.60	−10 36.0	1.440	2.404	7.4	18.8
3 22	10 35.64	− 9 1.6	1.455	2.400	9.7	19.0
4 1	10 30.63	− 7 21.7	1.495	2.396	13.1	19.1

180643 Cardoen 3 1.7 302°.22 0°.8/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 11.79	+ 0 41.1	1.703	2.475	17.1	20.6
2 1	11 9.69	+ 1 18.0	1.605	2.466	13.8	20.4
2 11	11 5.08	+ 2 17.0	1.528	2.457	9.9	20.1
2 21	10 58.43	+ 3 35.2	1.475	2.448	5.3	19.8
3 2	10 50.53	+ 5 6.1	1.448	2.439	0.9	19.5
3 12	10 42.50	+ 6 40.7	1.450	2.430	4.9	19.8
3 22	10 35.45	+ 8 9.3	1.478	2.422	9.7	20.0
4 1	10 30.34	+ 9 24.1	1.530	2.414	14.0	20.2

467221 2016 EH_{162} 3 1.7 305°.85 1°.4/ 2.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.38	+ 1 1.5	1.764	2.530	16.8	21.8
2 1	11 11.57	+ 1 12.9	1.670	2.526	13.7	21.6
2 11	11 6.29	+ 1 42.8	1.597	2.522	9.8	21.4
2 21	10 58.99	+ 2 28.9	1.547	2.518	5.4	21.1
3 2	10 50.51	+ 3 26.6	1.525	2.515	1.5	20.8
3 12	10 41.97	+ 4 28.7	1.530	2.511	4.6	21.0
3 22	10 34.43	+ 5 27.9	1.562	2.508	9.1	21.3
4 1	10 28.83	+ 6 17.8	1.619	2.504	13.2	21.5

264614 2001 UY_{200} 3 1.7 141°.17 1°.6/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.03	− 0 13.9	2.302	3.037	14.2	22.2
2 1	11 12.86	+ 0 0.8	2.212	3.049	11.5	22.1
2 11	11 6.70	+ 0 30.6	2.145	3.060	8.3	21.9
2 21	10 59.02	+ 1 13.4	2.104	3.070	4.7	21.7
3 2	10 50.52	+ 2 5.4	2.092	3.080	1.7	21.5
3 12	10 42.07	+ 3 1.1	2.110	3.090	3.8	21.6
3 22	10 34.48	+ 3 55.3	2.158	3.098	7.3	21.9
4 1	10 28.44	+ 4 43.1	2.232	3.106	10.5	22.1

422794 2001 XH_{7} 3 1.7 84°.39 3°.7/ 5.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.24	− 7 48.5	1.965	2.679	17.0	21.5
2 1	11 11.71	− 7 26.0	1.890	2.705	14.1	21.3
2 11	11 6.01	− 6 40.2	1.835	2.730	10.7	21.2
2 21	10 58.68	− 5 32.6	1.805	2.755	7.0	21.0
3 2	10 50.53	− 4 7.8	1.801	2.780	4.0	20.9
3 12	10 42.55	− 2 33.2	1.827	2.804	4.6	20.9
3 22	10 35.63	− 0 57.1	1.882	2.828	7.8	21.2
4 1	10 30.46	+ 0 32.6	1.963	2.852	11.1	21.4

37102 2000 UW_{98} 3 1.7 239°.93 0°.4/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.18	+ 6 18.2	1.918	2.685	15.6	20.0
2 1	11 16.10	+ 6 33.1	1.811	2.671	12.5	19.8
2 11	11 9.43	+ 7 1.3	1.725	2.656	8.8	19.5
2 21	11 0.62	+ 7 39.6	1.665	2.640	4.4	19.2
3 2	10 50.46	+ 8 23.0	1.633	2.624	0.5	18.9
3 12	10 40.09	+ 9 5.1	1.630	2.607	5.1	19.2
3 22	10 30.66	+ 9 39.9	1.655	2.589	9.6	19.4
4 1	10 23.16	+10 3.1	1.706	2.571	13.7	19.6

364651 2007 TR_{161} 3 1.7 85°.66 1°.3/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 21.49	+ 8 28.2	1.618	2.401	17.4	21.3
2 1	11 17.09	+ 8 52.1	1.552	2.422	13.7	21.1
2 11	11 9.93	+ 9 28.7	1.507	2.443	9.3	20.8
2 21	11 0.70	+10 12.6	1.486	2.463	4.6	20.6
3 2	10 50.47	+10 56.9	1.494	2.484	1.5	20.4
3 12	10 40.52	+11 34.5	1.529	2.503	5.7	20.8
3 22	10 32.00	+12 0.4	1.592	2.523	10.1	21.1
4 1	10 25.77	+12 11.8	1.678	2.542	13.9	21.3

374352 2005 UK_{156} 3 1.7 186°.74 16°.3/18.7 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 40.21	+41 57.2	1.372	2.153	20.1	21.0
2 1	11 34.05	+43 57.7	1.323	2.153	18.1	20.8
2 11	11 22.84	+45 41.2	1.292	2.153	16.6	20.7
2 21	11 7.54	+46 49.4	1.282	2.152	16.3	20.7
3 2	10 50.22	+47 7.7	1.294	2.150	17.2	20.7
3 12	10 33.64	+46 31.0	1.326	2.148	19.0	20.8
3 22	10 20.12	+45 4.7	1.376	2.145	21.3	21.0
4 1	10 11.01	+43 0.2	1.442	2.141	23.5	21.2

337622 2001 TZ_{80} 3 1.7 96°.56 0°.7/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.03	+ 9 0.3	2.410	3.172	12.9	20.9
2 1	11 14.27	+ 9 3.2	2.326	3.185	10.2	20.7
2 11	11 7.56	+ 9 13.6	2.267	3.198	7.0	20.5
2 21	10 59.40	+ 9 28.5	2.235	3.210	3.4	20.3
3 2	10 50.52	+ 9 44.1	2.232	3.223	0.8	20.1
3 12	10 41.75	+ 9 56.8	2.260	3.235	4.1	20.4
3 22	10 33.88	+10 3.4	2.317	3.247	7.5	20.6
4 1	10 27.57	+10 2.0	2.401	3.259	10.5	20.8

145245 2005 JX_{102} 3 1.7 223°.00 0°.9/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.86	+ 7 27.6	2.970	3.729	10.8	21.0
2 1	11 9.26	+ 8 11.3	2.861	3.719	8.5	20.8
2 11	11 4.09	+ 9 4.5	2.776	3.708	5.8	20.6
2 21	10 57.69	+10 4.0	2.720	3.696	2.9	20.4
3 2	10 50.58	+11 5.5	2.695	3.684	1.0	20.2
3 12	10 43.38	+12 4.3	2.701	3.672	3.8	20.4
3 22	10 36.74	+12 56.1	2.736	3.659	6.8	20.6
4 1	10 31.23	+13 37.7	2.799	3.645	9.5	20.8

284817 2008 YC_{161} 3 1.7 16°.17 2°.5/28.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 13.60	+11 38.7	1.917	2.712	14.6	20.4
2 1	11 10.67	+12 18.6	1.836	2.715	11.4	20.2
2 11	11 5.45	+13 8.2	1.778	2.718	7.8	20.0
2 21	10 58.48	+14 2.0	1.745	2.722	4.1	19.8
3 2	10 50.55	+14 53.3	1.741	2.726	2.8	19.7
3 12	10 42.68	+15 35.6	1.764	2.730	6.0	19.9
3 22	10 35.84	+16 4.1	1.814	2.735	9.8	20.1
4 1	10 30.78	+16 16.5	1.887	2.740	13.1	20.3

275228 2009 WK_{218} 3 1.7 313°.42 13°.9/11.8 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.34	+42 7.7	1.768	2.562	15.7	20.2
2 1	11 15.88	+44 33.4	1.711	2.546	14.4	20.1
2 11	11 9.95	+46 46.4	1.677	2.529	13.9	20.0
2 21	11 1.07	+48 33.4	1.665	2.513	14.3	20.0
3 2	10 50.45	+49 42.7	1.675	2.497	15.6	20.1
3 12	10 39.78	+50 8.3	1.704	2.482	17.3	20.1
3 22	10 30.75	+49 50.8	1.750	2.467	19.2	20.2
4 1	10 24.60	+48 55.1	1.810	2.452	20.9	20.4

95724 2003 CH_{15} 3 1.7 230°.13 6°.4/22.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.69	+24 13.9	2.396	3.189	12.1	19.7
2 1	11 13.72	+25 45.4	2.306	3.176	9.8	19.6
2 11	11 7.53	+27 19.1	2.241	3.163	7.6	19.4
2 21	10 59.56	+28 47.2	2.204	3.149	6.4	19.3
3 2	10 50.52	+30 1.5	2.197	3.134	7.0	19.3
3 12	10 41.37	+30 55.4	2.217	3.118	9.1	19.4
3 22	10 33.06	+31 25.8	2.263	3.102	11.6	19.5
4 1	10 26.40	+31 32.4	2.331	3.086	14.0	19.7

454142 2013 EL_{4} 3 1.7 336°.94 2°.4/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 9.13	− 2 13.4	1.274	2.062	20.9	20.8
2 1	11 8.40	− 1 53.6	1.186	2.053	17.2	20.5
2 11	11 4.68	− 1 3.9	1.115	2.044	12.6	20.2
2 21	10 58.41	+ 0 14.3	1.066	2.036	7.4	19.9
3 2	10 50.55	+ 1 54.7	1.040	2.029	2.6	19.6
3 12	10 42.54	+ 3 45.4	1.040	2.023	5.7	19.8
3 22	10 35.81	+ 5 33.0	1.063	2.018	11.3	20.1
4 1	10 31.54	+ 7 5.7	1.109	2.013	16.4	20.3

450720 2007 DB_{73} 3 1.7 174°.24 0°.1/ 1.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.84	+ 2 47.2	1.506	2.288	18.5	21.2
2 1	11 13.16	+ 3 31.4	1.421	2.289	14.9	21.0
2 11	11 7.61	+ 4 38.2	1.356	2.289	10.4	20.7
2 21	10 59.74	+ 6 2.9	1.314	2.290	5.3	20.4
3 2	10 50.51	+ 7 37.2	1.299	2.290	0.2	20.0
3 12	10 41.25	+ 9 10.4	1.312	2.290	5.7	20.4
3 22	10 33.23	+10 32.5	1.351	2.290	10.8	20.7
4 1	10 27.50	+11 36.3	1.413	2.290	15.3	21.0

354067 2001 TQ_{177} 3 1.7 51°.23 0°.8/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.74	+ 6 54.6	1.188	1.992	21.2	20.7
2 1	11 17.30	+ 7 7.1	1.135	2.016	16.8	20.5
2 11	11 10.46	+ 7 37.0	1.100	2.040	11.5	20.3
2 21	11 1.06	+ 8 18.5	1.087	2.065	5.6	20.0
3 2	10 50.48	+ 9 3.3	1.099	2.090	0.9	19.7
3 12	10 40.37	+ 9 42.3	1.137	2.116	6.4	20.2
3 22	10 32.16	+10 9.1	1.199	2.141	11.6	20.6
4 1	10 26.80	+10 19.9	1.283	2.167	16.0	20.9

90943 1997 UX_{2} 3 1.7 238°.03 4°.6/ 5.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.20	− 8 9.5	2.042	2.747	16.7	20.3
2 1	11 13.67	− 8 12.4	1.923	2.730	14.2	20.1
2 11	11 7.74	− 7 53.2	1.824	2.712	11.1	19.9
2 21	10 59.79	− 7 10.8	1.749	2.694	7.7	19.6
3 2	10 50.52	− 6 6.7	1.700	2.675	4.9	19.4
3 12	10 40.95	− 4 46.0	1.681	2.654	5.4	19.4
3 22	10 32.16	− 3 16.3	1.690	2.633	8.7	19.5
4 1	10 25.10	− 1 46.2	1.725	2.612	12.5	19.7

230667 2003 SZ_{200} 3 1.7 233°.11 0°.9/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.39	+ 2 34.3	2.220	2.974	14.2	20.8
2 1	11 11.81	+ 2 42.8	2.119	2.968	11.4	20.6
2 11	11 6.15	+ 3 4.8	2.039	2.962	8.1	20.4
2 21	10 58.83	+ 3 38.2	1.985	2.957	4.4	20.1
3 2	10 50.56	+ 4 19.2	1.960	2.951	1.0	19.9
3 12	10 42.21	+ 5 2.9	1.965	2.944	4.0	20.1
3 22	10 34.67	+ 5 44.0	1.998	2.938	7.8	20.3
4 1	10 28.69	+ 6 18.1	2.056	2.931	11.3	20.5

125905 2001 XV_{218} 3 1.7 358°.59 6°.9/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.51	− 9 58.2	1.644	2.366	19.5	19.5
2 1	11 11.16	−10 46.0	1.553	2.365	16.8	19.3
2 11	11 6.16	−11 10.0	1.480	2.363	13.5	19.1
2 21	10 59.01	−11 7.6	1.428	2.363	10.1	18.9
3 2	10 50.55	−10 38.5	1.400	2.363	7.4	18.7
3 12	10 41.98	− 9 47.1	1.397	2.363	7.3	18.7
3 22	10 34.50	− 8 40.6	1.419	2.364	9.9	18.9
4 1	10 29.08	− 7 28.5	1.466	2.366	13.4	19.1

502467 2015 BK_{316} 3 1.7 120°.24 0°.8/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 16.88	+ 7 40.1	2.122	2.893	14.2	21.8
2 1	11 12.96	+ 8 1.3	2.036	2.900	11.2	21.7
2 11	11 6.88	+ 8 33.3	1.973	2.907	7.7	21.4
2 21	10 59.16	+ 9 12.3	1.937	2.913	3.8	21.2
3 2	10 50.55	+ 9 53.2	1.929	2.919	0.9	21.0
3 12	10 42.00	+10 30.6	1.951	2.925	4.6	21.3
3 22	10 34.40	+11 0.0	2.000	2.931	8.4	21.5
4 1	10 28.49	+11 18.3	2.075	2.937	11.8	21.7

424927 2008 YJ_{6} 3 1.7 127°.20 2°.1/28.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.27	+ 9 58.8	2.256	3.038	13.1	20.9
2 1	11 10.05	+10 58.5	2.171	3.043	10.2	20.8
2 11	11 4.85	+12 8.7	2.110	3.048	6.9	20.6
2 21	10 58.13	+13 24.4	2.076	3.053	3.5	20.3
3 2	10 50.60	+14 38.8	2.072	3.058	2.4	20.3
3 12	10 43.08	+15 45.3	2.098	3.062	5.4	20.5
3 22	10 36.41	+16 38.9	2.151	3.067	8.8	20.7
4 1	10 31.25	+17 16.6	2.229	3.071	11.8	20.9

317276 2002 EB_{123} 3 1.7 268°.14 0°.4/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.03	+ 7 12.0	1.629	2.411	17.3	20.7
2 1	11 16.39	+ 7 13.9	1.533	2.402	13.9	20.4
2 11	11 9.85	+ 7 29.0	1.458	2.392	9.7	20.1
2 21	11 0.91	+ 7 53.9	1.406	2.382	4.9	19.8
3 2	10 50.50	+ 8 23.2	1.381	2.372	0.5	19.5
3 12	10 39.95	+ 8 50.5	1.385	2.362	5.6	19.8
3 22	10 30.58	+ 9 10.0	1.414	2.352	10.6	20.1
4 1	10 23.48	+ 9 17.7	1.467	2.342	14.9	20.3

138566 2000 QS_{78} 3 1.7 161°.00 0°.5/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.74	+ 3 55.7	2.885	3.629	11.4	20.7
2 1	11 10.67	+ 4 6.9	2.788	3.633	9.1	20.5
2 11	11 5.00	+ 4 27.7	2.715	3.638	6.4	20.4
2 21	10 58.13	+ 4 56.0	2.670	3.642	3.3	20.2
3 2	10 50.61	+ 5 28.8	2.655	3.645	0.5	19.9
3 12	10 43.10	+ 6 2.3	2.670	3.649	3.2	20.2
3 22	10 36.23	+ 6 33.0	2.716	3.652	6.2	20.4
4 1	10 30.56	+ 6 58.1	2.789	3.654	9.0	20.5

508736 2017 UQ_{29} 3 1.7 183°.85 3°.4/26.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.82	+18 6.3	2.837	3.617	10.7	21.8
2 1	11 12.40	+18 46.6	2.748	3.617	8.4	21.7
2 11	11 6.24	+19 29.6	2.685	3.617	6.0	21.5
2 21	10 58.76	+20 10.7	2.649	3.616	3.8	21.4
3 2	10 50.59	+20 45.3	2.644	3.615	3.7	21.3
3 12	10 42.45	+21 9.3	2.669	3.614	5.7	21.5
3 22	10 35.04	+21 20.3	2.723	3.612	8.2	21.6
4 1	10 28.96	+21 17.4	2.801	3.610	10.6	21.8

95215 2002 CA_{8} 3 1.7 260°.71 4°.8/25.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.94	+16 9.1	1.997	2.798	13.9	19.7
2 1	11 11.06	+17 34.9	1.908	2.790	10.9	19.5
2 11	11 5.86	+19 9.9	1.843	2.782	7.7	19.3
2 21	10 58.77	+20 46.3	1.805	2.773	5.1	19.1
3 2	10 50.59	+22 14.9	1.795	2.764	5.3	19.1
3 12	10 42.33	+23 27.4	1.814	2.755	8.1	19.3
3 22	10 34.99	+24 18.4	1.858	2.746	11.5	19.4
4 1	10 29.44	+24 45.6	1.925	2.737	14.6	19.6

372559 2009 UX_{12} 3 1.7 196°.39 0°.6/ 2.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.40	+ 2 2.6	2.279	3.029	13.9	22.3
2 1	11 11.75	+ 2 31.2	2.178	3.026	11.2	22.1
2 11	11 6.08	+ 3 14.9	2.100	3.023	7.9	21.9
2 21	10 58.80	+ 4 10.9	2.048	3.020	4.2	21.6
3 2	10 50.60	+ 5 14.6	2.025	3.016	0.7	21.3
3 12	10 42.33	+ 6 20.0	2.033	3.012	3.9	21.6
3 22	10 34.86	+ 7 21.2	2.069	3.007	7.8	21.8
4 1	10 28.90	+ 8 13.2	2.132	3.001	11.2	22.0

490350 2009 ES_{5} 3 1.7 243°.61 1°.4/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.46	+10 42.7	2.508	3.279	12.2	21.8
2 1	11 12.36	+10 57.8	2.410	3.274	9.6	21.6
2 11	11 6.36	+11 19.9	2.335	3.269	6.6	21.4
2 21	10 58.89	+11 45.6	2.288	3.264	3.3	21.2
3 2	10 50.60	+12 10.8	2.270	3.258	1.5	21.0
3 12	10 42.29	+12 31.2	2.282	3.253	4.5	21.2
3 22	10 34.74	+12 43.7	2.323	3.247	7.8	21.4
4 1	10 28.63	+12 46.1	2.390	3.241	10.8	21.6

68062 2000 YT_{64} 3 1.7 221°.93 0°.3/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.72	+ 5 7.6	2.249	3.013	13.7	20.4
2 1	11 11.27	+ 5 38.4	2.149	3.007	10.9	20.2
2 11	11 5.79	+ 6 22.3	2.071	3.001	7.6	20.0
2 21	10 58.68	+ 7 16.1	2.019	2.995	3.8	19.8
3 2	10 50.64	+ 8 14.7	1.997	2.988	0.4	19.5
3 12	10 42.52	+ 9 12.3	2.005	2.981	4.3	19.8
3 22	10 35.20	+10 3.2	2.041	2.974	8.1	20.0
4 1	10 29.40	+10 43.2	2.102	2.967	11.5	20.2

221364 2005 WR_{159} 3 1.7 23°.61 0°.8/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 14.65	+ 2 33.5	1.849	2.616	16.1	21.2
2 1	11 11.63	+ 2 48.9	1.759	2.617	13.0	21.0
2 11	11 6.23	+ 3 20.9	1.691	2.618	9.2	20.7
2 21	10 58.96	+ 4 6.6	1.647	2.619	4.9	20.5
3 2	10 50.63	+ 5 1.0	1.630	2.621	0.8	20.2
3 12	10 42.28	+ 5 57.4	1.642	2.622	4.5	20.5
3 22	10 34.93	+ 6 49.1	1.681	2.623	8.8	20.7
4 1	10 29.44	+ 7 30.9	1.745	2.625	12.7	21.0

10123 Fideöja 3 1.7 169°.85 2°.3/28.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.55	+10 12.9	1.942	2.719	15.1	18.7
2 1	11 16.16	+11 1.2	1.855	2.723	11.9	18.5
2 11	11 9.29	+12 1.1	1.792	2.727	8.1	18.3
2 21	11 0.48	+13 6.8	1.755	2.731	4.1	18.1
3 2	10 50.58	+14 11.0	1.747	2.733	2.5	18.0
3 12	10 40.71	+15 6.5	1.768	2.735	6.0	18.2
3 22	10 31.92	+15 47.7	1.818	2.736	10.0	18.4
4 1	10 25.08	+16 11.9	1.891	2.736	13.5	18.6

320928 2008 GX_{113} 3 1.7 280°.45 5°.8/ 7.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.23	−11 4.3	1.873	2.579	17.9	20.9
2 1	11 9.93	−11 12.6	1.763	2.566	15.4	20.6
2 11	11 5.24	−10 55.4	1.672	2.552	12.4	20.4
2 21	10 58.57	−10 10.7	1.603	2.539	9.0	20.2
3 2	10 50.64	− 8 59.7	1.559	2.526	6.3	20.0
3 12	10 42.50	− 7 27.8	1.542	2.512	6.2	19.9
3 22	10 35.21	− 5 43.4	1.552	2.499	9.0	20.0
4 1	10 29.72	− 3 56.8	1.587	2.486	12.7	20.2

110912 2001 UB_{126} 3 1.7 86°.53 0°.6/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.07	+ 0 9.4	1.870	2.629	16.3	18.9
2 1	11 10.99	+ 1 6.5	1.794	2.647	13.0	18.7
2 11	11 5.65	+ 2 24.0	1.740	2.665	9.1	18.5
2 21	10 58.59	+ 3 57.2	1.710	2.683	4.8	18.3
3 2	10 50.65	+ 5 39.0	1.710	2.701	0.6	18.0
3 12	10 42.82	+ 7 20.2	1.739	2.718	4.4	18.4
3 22	10 36.05	+ 8 52.5	1.796	2.735	8.6	18.6
4 1	10 31.07	+10 9.7	1.879	2.752	12.3	18.9

432560 2010 JM_{80} 3 1.7 299°.37 13°.6/10.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 28.18	+50 10.4	2.196	2.939	14.6	20.6
2 1	11 23.32	+51 54.8	2.143	2.922	13.8	20.5
2 11	11 14.84	+53 22.1	2.110	2.904	13.6	20.4
2 21	11 3.44	+54 21.6	2.098	2.887	13.9	20.4
3 2	10 50.48	+54 44.8	2.106	2.870	14.8	20.4
3 12	10 37.76	+54 28.3	2.134	2.853	16.0	20.5
3 22	10 26.92	+53 34.0	2.179	2.836	17.3	20.6
4 1	10 19.12	+52 7.1	2.238	2.820	18.6	20.7

146045 2000 ET_{11} 3 1.7 185°.98 3°.7/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 23.34	+16 10.1	1.827	2.616	15.5	18.7
2 1	11 18.56	+16 33.0	1.742	2.616	12.2	18.5
2 11	11 11.05	+17 1.0	1.679	2.615	8.5	18.3
2 21	11 1.39	+17 28.1	1.643	2.615	4.9	18.1
3 2	10 50.56	+17 47.4	1.634	2.615	4.0	18.0
3 12	10 39.83	+17 53.5	1.654	2.614	7.1	18.2
3 22	10 30.36	+17 43.6	1.701	2.613	10.9	18.4
4 1	10 23.09	+17 17.3	1.772	2.612	14.4	18.6

246165 2007 QT_{11} 3 1.7 298°.35 0°.8/ 2.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.30	+ 3 21.0	1.432	2.220	19.0	21.5
2 1	11 13.22	+ 3 25.2	1.328	2.199	15.5	21.2
2 11	11 8.07	+ 3 49.2	1.244	2.178	11.1	20.9
2 21	11 0.22	+ 4 30.9	1.181	2.156	6.0	20.5
3 2	10 50.59	+ 5 25.3	1.144	2.135	0.8	20.1
3 12	10 40.57	+ 6 23.9	1.133	2.114	5.8	20.4
3 22	10 31.66	+ 7 17.6	1.147	2.094	11.5	20.6
4 1	10 25.15	+ 7 58.9	1.182	2.073	16.6	20.8

173050 2006 QU_{142} 3 1.7 230°.89 3°.7/ 5.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.12	− 5 45.3	2.456	3.166	14.0	20.9
2 1	11 10.62	− 6 1.6	2.351	3.163	11.8	20.7
2 11	11 5.25	− 6 2.1	2.267	3.159	9.0	20.5
2 21	10 58.39	− 5 46.8	2.209	3.156	6.2	20.3
3 2	10 50.66	− 5 17.3	2.177	3.152	3.9	20.1
3 12	10 42.87	− 4 37.0	2.175	3.149	4.4	20.2
3 22	10 35.77	− 3 50.7	2.202	3.145	7.0	20.3
4 1	10 30.05	− 3 3.6	2.255	3.141	10.0	20.5

29378 1996 HP_{4} 3 1.7 253°.19 4°.5/26.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.06	+16 51.6	1.920	2.715	14.6	18.8
2 1	11 15.24	+17 41.8	1.826	2.704	11.6	18.6
2 11	11 8.83	+18 38.8	1.755	2.692	8.2	18.3
2 21	11 0.33	+19 35.7	1.710	2.680	5.2	18.1
3 2	10 50.60	+20 24.5	1.693	2.667	4.9	18.1
3 12	10 40.78	+20 58.4	1.703	2.654	7.8	18.2
3 22	10 32.01	+21 12.9	1.741	2.641	11.4	18.4
4 1	10 25.24	+21 7.0	1.801	2.628	14.8	18.6

230099 2000 YQ_{42} 3 1.7 83°.79 3°.0/ 4.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 17.97	− 3 52.0	2.099	2.823	15.8	21.2
2 1	11 13.68	− 3 53.2	2.027	2.851	12.9	21.1
2 11	11 7.29	− 3 36.5	1.976	2.879	9.6	20.9
2 21	10 59.35	− 3 3.4	1.949	2.906	6.0	20.7
3 2	10 50.65	− 2 17.3	1.951	2.933	3.2	20.6
3 12	10 42.14	− 1 23.5	1.982	2.960	4.2	20.7
3 22	10 34.66	− 0 28.1	2.042	2.986	7.4	21.0
4 1	10 28.89	+ 0 23.5	2.128	3.012	10.6	21.2

453325 2008 WD_{79} 3 1.7 351°.74 0°.9/ 1.0 18

1 22	11 11.60	+ 5 25.0	1.211	2.025	20.3	21.4
2 1	11 10.50	+ 5 58.2	1.133	2.020	16.2	21.1
2 11	11 6.19	+ 6 54.1	1.073	2.016	11.3	20.8
2 21	10 59.21	+ 8 7.4	1.034	2.013	5.6	20.4
3 2	10 50.65	+ 9 28.6	1.020	2.011	1.1	20.1
3 12	10 42.04	+10 45.7	1.031	2.010	6.8	20.5
3 22	10 34.89	+11 48.3	1.064	2.009	12.4	20.8
4 1	10 30.38	+12 29.6	1.119	2.010	17.4	21.1

301472 2009 DW_{126} 3 1.7 349°.03 1°.5/ 3.3 17

1 22	11 11.96	+ 0 10.7	2.211	2.962	14.3	21.2
2 1	11 9.11	+ 0 23.1	2.114	2.960	11.6	21.0
2 11	11 4.29	+ 0 51.0	2.039	2.959	8.4	20.8
2 21	10 57.93	+ 1 32.4	1.989	2.957	4.8	20.6
3 2	10 50.70	+ 2 23.6	1.967	2.956	1.6	20.3
3 12	10 43.43	+ 3 19.3	1.975	2.955	3.8	20.5
3 22	10 36.94	+ 4 13.6	2.010	2.954	7.5	20.7
4 1	10 31.94	+ 5 1.6	2.071	2.954	10.9	20.9

79661 1998 SN_{29} 3 1.7 247°.47 2°.9/28.5 18

1 22	11 20.26	+11 23.0	1.627	2.420	16.9	20.2
2 1	11 16.70	+12 2.5	1.530	2.407	13.4	19.9
2 11	11 10.17	+12 54.9	1.455	2.394	9.3	19.6
2 21	11 1.15	+13 54.2	1.404	2.380	4.9	19.3
3 2	10 50.59	+14 51.9	1.380	2.366	3.2	19.2
3 12	10 39.83	+15 39.3	1.384	2.351	7.2	19.4
3 22	10 30.25	+16 10.0	1.414	2.336	11.9	19.6
4 1	10 22.98	+16 20.7	1.466	2.321	16.1	19.8

375851 2009 VE_{9} 3 1.7 182°.37 0°.1/ 1.6 17

1 22	11 16.94	+ 5 18.5	2.197	2.958	14.1	22.2
2 1	11 13.02	+ 5 37.7	2.103	2.959	11.2	22.0
2 11	11 6.98	+ 6 9.2	2.030	2.959	7.8	21.7
2 21	10 59.29	+ 6 49.9	1.984	2.959	3.9	21.5
3 2	10 50.66	+ 7 35.1	1.967	2.958	0.2	21.2
3 12	10 42.01	+ 8 19.4	1.980	2.957	4.2	21.5
3 22	10 34.23	+ 8 57.8	2.021	2.956	8.1	21.7
4 1	10 28.07	+ 9 26.5	2.089	2.955	11.5	22.0

35286 Takaoakihiro 3 1.7 240°.15 4°.6/25.5 18 R

1 22	11 15.52	+16 33.0	2.133	2.929	13.3	19.1
2 1	11 12.20	+17 54.9	2.039	2.917	10.5	18.8
2 11	11 6.61	+19 25.2	1.969	2.905	7.4	18.6
2 21	10 59.19	+20 56.7	1.926	2.893	5.0	18.4
3 2	10 50.66	+22 20.8	1.912	2.881	5.2	18.4
3 12	10 42.02	+23 29.6	1.927	2.867	7.8	18.6
3 22	10 34.25	+24 18.2	1.969	2.854	11.1	18.7
4 1	10 28.17	+24 44.3	2.033	2.840	14.1	18.9

470285 2007 EB_{85} 3 1.7 291°.29 6°.4/25.5 17

1 22	11 21.63	+22 43.5	1.845	2.645	14.9	20.5
2 1	11 17.50	+23 29.5	1.752	2.628	12.0	20.2
2 11	11 10.53	+24 17.0	1.682	2.612	9.0	20.0
2 21	11 1.24	+24 57.9	1.636	2.595	6.7	19.8
3 2	10 50.60	+25 23.7	1.618	2.578	6.9	19.8
3 12	10 39.90	+25 28.0	1.627	2.562	9.5	19.9
3 22	10 30.40	+25 8.4	1.662	2.546	12.8	20.1
4 1	10 23.13	+24 25.7	1.718	2.529	16.1	20.3

166101 2002 CV_{159} 3 1.7 274°.62 0°.9/ 2.3 18

1 22	11 19.52	+ 4 16.0	1.591	2.367	18.0	20.2
2 1	11 16.15	+ 4 7.1	1.491	2.354	14.6	19.9
2 11	11 9.83	+ 4 13.6	1.410	2.340	10.4	19.7
2 21	11 1.00	+ 4 33.3	1.353	2.327	5.6	19.3
3 2	10 50.61	+ 5 2.1	1.323	2.314	0.9	19.0
3 12	10 39.98	+ 5 33.6	1.320	2.300	5.3	19.2
3 22	10 30.48	+ 6 1.5	1.343	2.287	10.5	19.5
4 1	10 23.27	+ 6 20.4	1.389	2.273	15.1	19.7

477934 2011 QC_{67} 3 1.7 216°.31 7°.8/11.9 18

1 22	11 14.93	−23 16.6	3.088	3.657	13.7	21.4
2 1	11 11.07	−24 6.7	2.972	3.649	12.5	21.2
2 11	11 5.48	−24 38.7	2.874	3.642	11.0	21.1
2 21	10 58.51	−24 49.9	2.798	3.633	9.5	21.0
3 2	10 50.69	−24 38.8	2.745	3.625	8.3	20.9
3 12	10 42.72	−24 6.2	2.719	3.616	7.8	20.8
3 22	10 35.30	−23 15.1	2.719	3.606	8.3	20.8
4 1	10 29.05	−22 10.5	2.746	3.597	9.6	20.9

171922 2001 SM_{139} 3 1.7 165°.46 0°.8/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 13.69	+ 1 53.3	2.750	3.490	12.0	21.5
2 1	11 9.99	+ 2 12.3	2.652	3.494	9.6	21.4
2 11	11 4.63	+ 2 43.2	2.578	3.497	6.8	21.2
2 21	10 58.02	+ 3 23.7	2.530	3.500	3.7	21.0
3 2	10 50.72	+ 4 10.4	2.513	3.503	0.9	20.8
3 12	10 43.41	+ 4 59.0	2.526	3.505	3.2	21.0
3 22	10 36.76	+ 5 45.3	2.569	3.507	6.4	21.2
4 1	10 31.34	+ 6 25.5	2.639	3.509	9.3	21.3

49676 1999 TZ_{2} 3 1.7 184°.06 2°.1/28.9 18

1 22	11 20.61	+ 8 56.8	1.812	2.590	16.0	19.9
2 1	11 16.47	+ 9 48.7	1.722	2.591	12.6	19.7
2 11	11 9.69	+10 54.7	1.655	2.591	8.7	19.5
2 21	11 0.77	+12 9.0	1.614	2.590	4.4	19.2
3 2	10 50.63	+13 23.5	1.601	2.589	2.4	19.1
3 12	10 40.45	+14 29.8	1.618	2.586	6.2	19.3
3 22	10 31.40	+15 21.4	1.662	2.583	10.5	19.5
4 1	10 24.42	+15 54.4	1.730	2.579	14.3	19.8

258328 2001 VC_{14} 3 1.7 57°.18 5°.3/ 6.1 18

1 22	11 17.92	− 7 6.6	1.652	2.380	19.2	20.7
2 1	11 14.30	− 7 40.2	1.584	2.403	16.1	20.6
2 11	11 8.07	− 7 50.7	1.533	2.427	12.4	20.4
2 21	10 59.87	− 7 37.6	1.506	2.452	8.6	20.2
3 2	10 50.66	− 7 3.2	1.503	2.476	5.7	20.1
3 12	10 41.66	− 6 13.0	1.528	2.500	6.0	20.2
3 22	10 33.94	− 5 14.8	1.579	2.525	9.0	20.4
4 1	10 28.35	− 4 16.5	1.655	2.549	12.4	20.7

199210 2006 AS_{21} 3 1.7 311°.31 0°.1/ 1.8 17

1 22	11 20.06	+ 7 26.5	1.805	2.580	16.2	19.5
2 1	11 16.15	+ 7 7.7	1.703	2.567	13.0	19.3
2 11	11 9.56	+ 6 58.6	1.622	2.554	9.1	19.0
2 21	11 0.76	+ 6 56.8	1.566	2.541	4.7	18.7
3 2	10 50.63	+ 6 58.9	1.538	2.529	0.2	18.3
3 12	10 40.35	+ 7 0.4	1.538	2.517	5.0	18.7
3 22	10 31.12	+ 6 57.4	1.565	2.505	9.6	18.9
4 1	10 23.93	+ 6 46.8	1.617	2.494	13.7	19.1

110023 2001 SH_{72} 3 1.7 146°.03 5°.8/22.5 17

1 22	11 18.14	+28 44.7	3.073	3.854	10.0	20.6
2 1	11 13.37	+29 49.9	3.008	3.865	8.2	20.5
2 11	11 6.87	+30 52.0	2.968	3.875	6.6	20.4
2 21	10 59.10	+31 45.2	2.957	3.885	5.8	20.4
3 2	10 50.69	+32 24.5	2.975	3.895	6.2	20.4
3 12	10 42.39	+32 46.5	3.021	3.903	7.6	20.5
3 22	10 34.89	+32 50.3	3.093	3.912	9.4	20.6
4 1	10 28.76	+32 36.4	3.189	3.920	11.1	20.8

453404 2009 EE_{15} 3 1.7 64°.13 3°.2/29.3 16

1 22	11 37.85	+16 16.4	1.390	2.170	19.9	21.0
2 1	11 30.11	+15 57.1	1.336	2.203	15.7	20.8
2 11	11 18.87	+15 40.8	1.303	2.236	10.8	20.6
2 21	11 5.15	+15 21.5	1.295	2.269	5.7	20.4
3 2	10 50.52	+14 54.0	1.316	2.301	3.3	20.3
3 12	10 36.76	+14 15.3	1.365	2.334	7.1	20.6
3 22	10 25.30	+13 25.7	1.442	2.366	11.6	21.0
4 1	10 17.02	+12 27.0	1.543	2.397	15.5	21.3

169280 2001 SQ_{231} 3 1.7 44°.76 4°.0/26.6 18

1 22	11 16.82	+18 4.7	2.267	3.059	12.7	20.2
2 1	11 12.89	+18 46.1	2.185	3.060	10.0	20.0
2 11	11 6.85	+19 31.0	2.126	3.061	7.1	19.8
2 21	10 59.20	+20 13.8	2.094	3.062	4.6	19.6
3 2	10 50.70	+20 48.5	2.092	3.064	4.4	19.6
3 12	10 42.27	+21 10.1	2.117	3.065	6.7	19.8
3 22	10 34.77	+21 16.0	2.170	3.066	9.7	19.9
4 1	10 28.93	+21 5.4	2.247	3.068	12.5	20.1

206238 2002 WM_{17} 3 1.7 87°.33 19°.4/12.3 17

1 22	11 28.32	+43 59.1	1.135	1.945	21.7	19.3
2 1	11 25.60	+47 16.7	1.116	1.956	20.1	19.2
2 11	11 17.55	+50 7.7	1.115	1.967	19.4	19.2
2 21	11 5.13	+52 11.7	1.133	1.978	19.8	19.2
3 2	10 50.53	+53 14.4	1.169	1.989	21.0	19.4
3 12	10 36.73	+53 13.0	1.220	2.000	22.7	19.5
3 22	10 26.17	+52 15.2	1.285	2.011	24.5	19.7
4 1	10 20.15	+50 33.3	1.360	2.021	26.1	19.9

364868 2008 DR_{52} 3 1.7 145°.14 1°.4/ 3.2 18

1 22	11 17.61	+ 0 2.2	2.407	3.140	13.7	21.2
2 1	11 13.26	+ 0 22.0	2.317	3.153	11.1	21.0
2 11	11 6.99	+ 0 56.3	2.250	3.165	8.0	20.8
2 21	10 59.25	+ 1 43.0	2.209	3.176	4.5	20.6
3 2	10 50.72	+ 2 38.0	2.198	3.187	1.4	20.4
3 12	10 42.24	+ 3 36.2	2.217	3.196	3.6	20.6
3 22	10 34.59	+ 4 32.3	2.266	3.206	7.1	20.8
4 1	10 28.43	+ 5 21.6	2.342	3.214	10.2	21.0

262709 2006 XG_7 3 1.7 87°.32 3°.7/27.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 17.38	+13 55.9	1.764	2.563	15.5	20.8
2 1	11 13.94	+14 47.1	1.686	2.566	12.2	20.6
2 11	11 7.91	+15 47.5	1.630	2.570	8.4	20.4
2 21	10 59.86	+16 50.0	1.599	2.573	4.8	20.2
3 2	10 50.70	+17 46.6	1.596	2.577	4.0	20.1
3 12	10 41.63	+18 29.8	1.621	2.580	7.2	20.3
3 22	10 33.73	+18 54.9	1.671	2.584	11.1	20.6
4 1	10 27.90	+19 0.3	1.745	2.587	14.5	20.8

384121 2008 XP_1 3 1.7 60°.72 9°.6/20.9 18

1 22	11 20.81	+33 6.0	1.950	2.749	14.3	20.6
2 1	11 16.50	+34 39.0	1.910	2.769	12.0	20.4
2 11	11 9.50	+36 3.4	1.892	2.789	10.3	20.4
2 21	11 0.54	+37 9.4	1.899	2.810	9.6	20.4
3 2	10 50.69	+37 49.2	1.932	2.830	10.3	20.4
3 12	10 41.22	+37 58.9	1.989	2.851	11.9	20.6
3 22	10 33.21	+37 39.3	2.068	2.871	13.9	20.8
4 1	10 27.45	+36 54.1	2.167	2.892	15.8	20.9

140725 2001 UX_{94} 3 1.7 125°.93 4°.2/25.5 18

1 22	11 14.55	+18 42.7	2.540	3.331	11.5	19.9
2 1	11 10.87	+19 48.4	2.464	3.339	9.1	19.8
2 11	11 5.34	+20 57.6	2.413	3.347	6.5	19.6
2 21	10 58.42	+22 4.3	2.390	3.354	4.5	19.5
3 2	10 50.77	+23 2.4	2.397	3.361	4.6	19.5
3 12	10 43.18	+23 46.9	2.433	3.369	6.7	19.7
3 22	10 36.40	+24 14.7	2.496	3.375	9.2	19.8
4 1	10 31.05	+24 24.9	2.582	3.382	11.6	20.0

63024 2000 WH_{48} 3 1.7 104°.59 2°.8/27.7 18

1 22	11 16.81	+12 5.4	2.207	2.988	13.4	19.9
2 1	11 12.77	+13 8.1	2.137	3.009	10.4	19.7
2 11	11 6.70	+14 19.2	2.092	3.029	7.1	19.5
2 21	10 59.10	+15 32.7	2.074	3.049	3.8	19.4
3 2	10 50.75	+16 41.7	2.086	3.068	3.1	19.3
3 12	10 42.55	+17 40.0	2.128	3.087	5.8	19.5
3 22	10 35.32	+18 23.4	2.197	3.105	9.0	19.8
4 1	10 29.73	+18 49.9	2.292	3.123	11.9	20.0

500006 2011 QR_8 3 1.7 216°.16 2°.1/ 4.3 17

1 22	11 11.13	− 3 34.9	2.545	3.270	13.2	22.3
2 1	11 8.21	− 3 6.8	2.440	3.267	10.9	22.1
2 11	11 3.56	− 2 21.7	2.358	3.265	8.0	21.9
2 21	10 57.57	− 1 21.3	2.301	3.262	4.9	21.7
3 2	10 50.80	− 0 9.1	2.274	3.259	2.2	21.5
3 12	10 43.99	+ 1 9.5	2.276	3.256	3.5	21.6
3 22	10 37.82	+ 2 28.6	2.308	3.253	6.6	21.8
4 1	10 32.94	+ 3 42.4	2.368	3.250	9.7	22.0

376829 2001 FY_{208} 3 1.7 39°.71 0°.1/ 1.8 18

1 22	11 14.00	+ 4 20.8	1.911	2.684	15.4	21.7
2 1	11 11.01	+ 4 44.4	1.826	2.689	12.3	21.5
2 11	11 5.76	+ 5 23.0	1.762	2.694	8.6	21.3
2 21	10 58.75	+ 6 13.1	1.723	2.699	4.4	21.0
3 2	10 50.77	+ 7 9.0	1.713	2.704	0.1	20.7
3 12	10 42.82	+ 8 4.2	1.730	2.709	4.5	21.1
3 22	10 35.85	+ 8 52.7	1.775	2.715	8.7	21.3
4 1	10 30.65	+ 9 29.7	1.845	2.720	12.4	21.5

172109 2002 GP_{72} 3 1.7 248°.74 1°.4/29.5 17

1 22	11 17.19	+ 7 25.9	1.825	2.605	15.8	20.6
2 1	11 13.91	+ 8 5.6	1.722	2.591	12.6	20.4
2 11	11 8.06	+ 9 0.7	1.641	2.577	8.7	20.1
2 21	11 0.06	+10 6.5	1.586	2.563	4.3	19.8
3 2	10 50.73	+11 16.2	1.558	2.548	1.6	19.6
3 12	10 41.21	+12 21.4	1.559	2.533	5.8	19.8
3 22	10 32.64	+13 15.1	1.588	2.517	10.3	20.1
4 1	10 26.03	+13 52.5	1.640	2.501	14.4	20.3

221179 2005 UQ_{18} 3 1.7 169°.09 1°.3/29.4 18

1 22	11 16.88	+ 8 25.2	2.233	3.003	13.6	21.0
2 1	11 12.95	+ 9 3.3	2.143	3.007	10.7	20.8
2 11	11 6.93	+ 9 52.4	2.076	3.010	7.3	20.6
2 21	10 59.29	+10 48.1	2.036	3.012	3.6	20.4
3 2	10 50.76	+11 44.6	2.025	3.014	1.5	20.2
3 12	10 42.24	+12 36.1	2.044	3.015	4.8	20.5
3 22	10 34.59	+13 17.7	2.092	3.016	8.5	20.7
4 1	10 28.54	+13 46.1	2.165	3.017	11.7	20.9

62628 2000 SL_{352} 3 1.7 243°.96 6°.3/23.9 17

1 22	11 20.27	+24 2.6	2.264	3.056	12.8	19.8
2 1	11 15.93	+25 12.7	2.170	3.040	10.3	19.6
2 11	11 9.20	+26 24.4	2.100	3.023	7.9	19.4
2 21	11 0.53	+27 30.0	2.057	3.006	6.4	19.2
3 2	10 50.72	+28 21.6	2.042	2.988	6.9	19.2
3 12	10 40.81	+28 53.1	2.055	2.970	9.0	19.3
3 22	10 31.83	+29 1.6	2.095	2.951	11.8	19.5
4 1	10 24.66	+28 47.1	2.156	2.931	14.4	19.6

108531 2001 LH_4 3 1.7 148°.21 3°.8/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 21.50	+13 37.8	1.869	2.655	15.3	19.5
2 1	11 17.00	+14 45.9	1.794	2.667	12.0	19.3
2 11	11 9.92	+16 3.5	1.741	2.678	8.2	19.1
2 21	11 0.86	+17 23.2	1.715	2.688	4.8	18.9
3 2	10 50.73	+18 36.1	1.718	2.697	4.2	18.9
3 12	10 40.71	+19 34.4	1.750	2.705	7.2	19.1
3 22	10 31.90	+20 13.4	1.809	2.712	10.9	19.3
4 1	10 25.15	+20 31.3	1.892	2.719	14.2	19.6

421650 2014 OG_{338} 3 1.7 114°.99 1°.5/28.9 18

1 22	11 18.83	+ 8 29.7	2.433	3.194	12.8	21.5
2 1	11 14.09	+ 9 25.2	2.362	3.221	10.0	21.4
2 11	11 7.46	+10 30.5	2.315	3.247	6.8	21.2
2 21	10 59.45	+11 40.5	2.297	3.273	3.3	21.0
3 2	10 50.78	+12 49.5	2.309	3.297	1.7	20.9
3 12	10 42.26	+13 51.6	2.352	3.320	4.6	21.2
3 22	10 34.65	+14 42.4	2.425	3.343	7.8	21.4
4 1	10 28.57	+15 19.4	2.525	3.364	10.7	21.6

49153 1998 ST_{52} 3 1.7 11°.21 3°.1/ 3.9 18

1 22	11 11.66	− 1 7.4	1.290	2.078	20.8	18.2
2 1	11 10.26	− 1 20.9	1.215	2.080	17.0	17.9
2 11	11 5.85	− 1 10.2	1.157	2.084	12.5	17.7
2 21	10 59.01	− 0 36.6	1.121	2.089	7.5	17.4
3 2	10 50.78	+ 0 15.4	1.108	2.095	3.3	17.2
3 12	10 42.59	+ 1 17.3	1.120	2.102	5.5	17.3
3 22	10 35.80	+ 2 19.5	1.156	2.111	10.5	17.6
4 1	10 31.44	+ 3 13.2	1.214	2.120	15.1	17.9

472243 2014 KJ_2 3 1.7 168°.80 4°.2/27.0 18

1 22	11 22.53	+15 10.1	1.873	2.660	15.2	22.5
2 1	11 17.89	+16 12.7	1.792	2.666	12.0	22.3
2 11	11 10.61	+17 23.5	1.734	2.670	8.3	22.1
2 21	11 1.24	+18 35.2	1.703	2.674	5.0	21.9
3 2	10 50.72	+19 39.0	1.700	2.677	4.6	21.9
3 12	10 40.27	+20 27.3	1.727	2.679	7.6	22.1
3 22	10 31.01	+20 55.8	1.780	2.680	11.2	22.3
4 1	10 23.87	+21 3.3	1.857	2.680	14.6	22.5

160081 2000 JK_{40} 3 1.7 267°.86 2°.3/ 3.4 17

1 22	11 17.04	− 0 27.8	1.654	2.413	18.0	20.8
2 1	11 14.18	− 0 26.7	1.544	2.394	14.9	20.6
2 11	11 8.52	− 0 5.1	1.454	2.375	11.0	20.3
2 21	11 0.43	+ 0 36.4	1.387	2.355	6.4	20.0
3 2	10 50.74	+ 1 34.0	1.346	2.334	2.4	19.7
3 12	10 40.70	+ 2 40.8	1.333	2.314	5.2	19.8
3 22	10 31.60	+ 3 48.1	1.346	2.293	10.1	20.0
4 1	10 24.62	+ 4 48.0	1.383	2.272	14.8	20.2

271731 2004 RC_{269} 3 1.7 147°.20 0°.8/ 2.6 18

1 22	11 14.49	+ 1 19.8	2.165	2.917	14.5	21.4
2 1	11 11.13	+ 1 50.0	2.073	2.922	11.7	21.2
2 11	11 5.71	+ 2 36.4	2.004	2.927	8.3	21.0
2 21	10 58.70	+ 3 35.9	1.960	2.931	4.4	20.8
3 2	10 50.80	+ 4 43.6	1.945	2.935	0.8	20.5
3 12	10 42.91	+ 5 53.1	1.960	2.940	4.0	20.8
3 22	10 35.87	+ 6 58.2	2.003	2.943	7.8	21.0
4 1	10 30.40	+ 7 53.6	2.073	2.947	11.3	21.2

37830 1998 BX_{33} 3 1.7 195°.33 1°.4/29.8 18

1 22	11 29.52	+11 45.2	2.033	2.792	15.1	18.9
2 1	11 23.20	+11 36.9	1.934	2.790	12.1	18.7
2 11	11 14.19	+11 34.4	1.858	2.787	8.4	18.4
2 21	11 3.05	+11 34.1	1.809	2.784	4.2	18.2
3 2	10 50.69	+11 31.7	1.790	2.780	1.5	18.0
3 12	10 38.33	+11 23.1	1.803	2.775	5.3	18.2
3 22	10 27.15	+11 5.9	1.845	2.770	9.4	18.5
4 1	10 18.08	+10 39.0	1.914	2.764	13.1	18.7

286026 2001 SZ_{157} 3 1.7 166°.56 1°.4/ 2.9 18

1 22	11 20.67	+ 1 27.4	1.844	2.595	16.7	21.7
2 1	11 16.43	+ 1 34.1	1.753	2.600	13.5	21.5
2 11	11 9.62	+ 1 57.6	1.683	2.604	9.7	21.2
2 21	11 0.77	+ 2 35.8	1.638	2.608	5.4	21.0
3 2	10 50.76	+ 3 24.0	1.621	2.611	1.5	20.7
3 12	10 40.74	+ 4 15.9	1.633	2.613	4.6	20.9
3 22	10 31.80	+ 5 4.9	1.673	2.614	9.0	21.2
4 1	10 24.88	+ 5 45.5	1.738	2.615	12.9	21.4

262668 2006 WX_{120} 3 1.7 183°.80 8°.1/ 9.4 18

1 22	11 15.68	−15 57.4	1.974	2.638	18.3	20.4
2 1	11 12.54	−16 44.2	1.876	2.638	16.1	20.2
2 11	11 6.99	−17 7.0	1.795	2.638	13.5	20.1
2 21	10 59.48	−17 2.5	1.736	2.638	10.8	19.9
3 2	10 50.80	−16 29.5	1.700	2.638	8.7	19.8
3 12	10 41.98	−15 31.1	1.690	2.637	8.2	19.7
3 22	10 34.09	−14 13.7	1.707	2.636	9.7	19.8
4 1	10 28.01	−12 46.0	1.748	2.636	12.3	20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
138493 2000 KQ_{35}			3 1.7 306°.60		1°.5/29.5 17	
	h m	° ′			°	m
1 22	11 13.07	+ 7 15.1	1.611	2.407	16.9	20.2
2 1	11 11.04	+ 7 54.3	1.510	2.388	13.5	20.0
2 11	11 6.30	+ 8 51.1	1.430	2.370	9.3	19.7
2 21	10 59.28	+10 0.7	1.374	2.352	4.7	19.3
3 2	10 50.80	+11 15.5	1.344	2.334	1.7	19.1
3 12	10 42.09	+12 26.1	1.341	2.316	6.3	19.3
3 22	10 34.39	+13 24.1	1.364	2.299	11.2	19.6
4 1	10 28.80	+14 3.8	1.409	2.282	15.6	19.8
154660 Kavelaars			3 1.7 72°.06		7°.0/ 8.6 18	
1 22	11 11.79	−17 59.0	1.113	1.837	27.0	19.9
2 1	11 10.90	−17 6.8	1.040	1.850	23.3	19.6
2 11	11 6.59	−15 20.3	0.980	1.864	18.7	19.4
2 21	10 59.48	−12 36.9	0.938	1.877	13.4	19.1
3 2	10 50.80	− 9 3.3	0.919	1.891	8.4	18.9
3 12	10 42.25	− 4 59.6	0.926	1.905	7.4	18.9
3 22	10 35.39	− 0 52.8	0.960	1.919	11.5	19.1
4 1	10 31.37	+ 2 52.0	1.019	1.932	16.6	19.5
300106 2006 UV_{282}			3 1.7 202°.12		3°.1/ 5.3 17	
1 22	11 12.41	− 5 22.1	2.594	3.306	13.3	21.2
2 1	11 9.18	− 5 21.3	2.491	3.305	11.1	21.1
2 11	11 4.23	− 5 4.5	2.408	3.304	8.4	20.9
2 21	10 57.93	− 4 32.6	2.351	3.302	5.6	20.7
3 2	10 50.86	− 3 47.6	2.323	3.301	3.3	20.5
3 12	10 43.74	− 2 53.7	2.323	3.299	3.9	20.6
3 22	10 37.27	− 1 55.7	2.353	3.297	6.5	20.7
4 1	10 32.08	− 0 58.8	2.410	3.295	9.4	20.9
246424 2007 VJ_{48}			3 1.7 68°.67		1°.2/ 2.9 18	
1 22	11 14.96	+ 2 0.7	2.284	3.034	13.9	20.4
2 1	11 11.39	+ 2 2.0	2.190	3.036	11.2	20.2
2 11	11 5.84	+ 2 16.1	2.118	3.039	8.0	20.0
2 21	10 58.77	+ 2 41.3	2.071	3.041	4.4	19.8
3 2	10 50.84	+ 3 14.1	2.053	3.043	1.3	19.6
3 12	10 42.90	+ 3 50.2	2.065	3.045	3.7	19.7
3 22	10 35.77	+ 4 24.7	2.105	3.047	7.3	20.0
4 1	10 30.14	+ 4 53.7	2.171	3.050	10.6	20.2
366817 2005 EP_{245}			3 1.7 262°.36		0°.5/ 1.3 17	
1 22	11 18.68	+ 6 42.2	1.816	2.591	16.1	22.2
2 1	11 15.14	+ 6 56.9	1.711	2.576	12.9	22.0
2 11	11 8.96	+ 7 25.2	1.626	2.560	9.0	21.7
2 21	11 0.57	+ 8 3.8	1.567	2.543	4.6	21.4
3 2	10 50.78	+ 8 47.4	1.535	2.526	0.6	21.1
3 12	10 40.78	+ 9 29.3	1.532	2.509	5.3	21.4
3 22	10 31.74	+10 3.2	1.556	2.492	10.0	21.6
4 1	10 24.69	+10 24.7	1.604	2.474	14.2	21.8
163656 2002 VX_{85}			3 1.7 78°.88		2°.9/28.3 18	
1 22	11 24.32	+16 13.7	2.291	3.064	13.2	19.2
2 1	11 18.44	+16 24.4	2.223	3.088	10.4	19.0
2 11	11 10.45	+16 37.9	2.180	3.112	7.1	18.9
2 21	11 0.95	+16 49.5	2.163	3.135	4.0	18.7
3 2	10 50.79	+16 55.1	2.178	3.159	3.0	18.7
3 12	10 40.91	+16 51.0	2.222	3.182	5.5	18.9
3 22	10 32.18	+16 35.7	2.296	3.205	8.6	19.1
4 1	10 25.25	+16 9.3	2.395	3.228	11.4	19.3
473866 2016 ET_{134}			3 1.7 284°.41		3°.0/28.4 17	
1 22	11 21.01	+13 41.8	1.948	2.732	14.8	21.8
2 1	11 16.98	+14 4.6	1.832	2.703	11.8	21.5
2 11	11 10.26	+14 35.4	1.738	2.674	8.3	21.2
2 21	11 1.26	+15 9.2	1.670	2.644	4.5	20.9
3 2	10 50.77	+15 39.5	1.630	2.614	3.2	20.8
3 12	10 39.94	+15 59.8	1.619	2.584	6.6	20.9
3 22	10 29.99	+16 5.7	1.635	2.553	10.9	21.1
4 1	10 21.99	+15 54.8	1.675	2.522	14.8	21.3
409917 2006 TM_{81}			3 1.7 95°.31		1°.2/ 2.8 18	
1 22	11 19.88	+ 1 34.2	1.942	2.691	16.0	23.0
2 1	11 15.40	+ 1 47.6	1.870	2.716	12.9	22.8
2 11	11 8.62	+ 2 16.7	1.820	2.741	9.1	22.6
2 21	11 0.14	+ 2 58.7	1.795	2.765	4.9	22.4
3 2	10 50.81	+ 3 48.7	1.799	2.789	1.2	22.2
3 12	10 41.69	+ 4 40.4	1.832	2.812	4.2	22.4
3 22	10 33.71	+ 5 28.0	1.894	2.835	8.1	22.7
4 1	10 27.60	+ 6 6.9	1.982	2.857	11.6	23.0
271705 2004 RL_{158}			3 1.7 66°.93		0°.6/ 2.2 18	
1 22	11 19.65	+ 5 4.4	1.840	2.607	16.2	20.4
2 1	11 15.45	+ 4 58.4	1.763	2.621	12.9	20.2
2 11	11 8.80	+ 5 5.0	1.707	2.636	9.0	20.0
2 21	11 0.29	+ 5 21.5	1.677	2.650	4.7	19.7
3 2	10 50.81	+ 5 43.8	1.674	2.665	0.6	19.5
3 12	10 41.49	+ 6 6.5	1.700	2.680	4.5	19.8
3 22	10 33.34	+ 6 25.2	1.754	2.694	8.7	20.1
4 1	10 27.16	+ 6 36.2	1.833	2.709	12.4	20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
54112 2000 HB_{12}			3 1.7 271°.33		4°.2/ 6.2 17	
	h m	° ′			°	m
1 22	11 12.50	− 7 49.0	2.301	3.008	14.9	19.9
2 1	11 9.57	− 7 55.8	2.194	3.002	12.6	19.7
2 11	11 4.69	− 7 43.6	2.108	2.996	9.9	19.5
2 21	10 58.24	− 7 12.3	2.046	2.989	6.9	19.3
3 2	10 50.87	− 6 23.7	2.011	2.983	4.5	19.2
3 12	10 43.39	− 5 21.9	2.004	2.977	4.7	19.2
3 22	10 36.63	− 4 13.1	2.025	2.970	7.4	19.3
4 1	10 31.32	− 3 3.5	2.073	2.964	10.5	19.5
79495 1998 FC_{91}			3 1.7 239°.71		4°.0/26.4 18	
1 22	11 16.17	+18 20.3	2.455	3.245	12.0	19.4
2 1	11 12.29	+19 5.4	2.366	3.240	9.4	19.2
2 11	11 6.43	+19 54.1	2.302	3.236	6.7	19.1
2 21	10 59.06	+20 40.9	2.265	3.232	4.4	18.9
3 2	10 50.85	+21 20.1	2.257	3.227	4.3	18.9
3 12	10 42.65	+21 46.7	2.278	3.222	6.5	19.0
3 22	10 35.27	+21 58.0	2.326	3.218	9.3	19.2
4 1	10 29.40	+21 53.1	2.399	3.213	12.0	19.4
23486 1991 PE_{2}			3 1.7 176°.90		0°.5/ 1.2 18	
1 22	11 19.33	+ 6 13.5	2.226	2.985	14.0	20.8
2 1	11 14.90	+ 6 42.3	2.132	2.987	11.1	20.6
2 11	11 8.32	+ 7 23.0	2.060	2.989	7.7	20.4
2 21	11 0.04	+ 8 12.3	2.016	2.991	3.8	20.2
3 2	10 50.82	+ 9 4.8	2.001	2.991	0.6	19.9
3 12	10 41.58	+ 9 54.8	2.016	2.991	4.5	20.2
3 22	10 33.23	+10 37.2	2.060	2.990	8.3	20.4
4 1	10 26.53	+11 8.4	2.131	2.988	11.7	20.6
206177 2002 TB_{295}			3 1.7 56°.34		3°.7/27.9 18	
1 22	11 23.83	+17 27.2	1.942	2.728	14.8	19.7
2 1	11 18.40	+17 45.0	1.884	2.756	11.6	19.6
2 11	11 10.58	+18 5.5	1.849	2.784	8.0	19.4
2 21	11 1.05	+18 22.8	1.841	2.811	4.7	19.3
3 2	10 50.80	+18 31.6	1.861	2.839	3.9	19.3
3 12	10 40.95	+18 27.9	1.910	2.867	6.5	19.5
3 22	10 32.45	+18 10.3	1.987	2.895	9.8	19.7
4 1	10 26.02	+17 39.2	2.088	2.923	12.8	20.0
327837 2006 WE_{85}			3 1.7 72°.22		1°.9/ 3.4 18	
1 22	11 16.78	− 0 31.9	1.703	2.460	17.7	21.1
2 1	11 13.36	− 0 19.1	1.631	2.480	14.3	20.9
2 11	11 7.44	+ 0 13.5	1.579	2.500	10.3	20.7
2 21	10 59.62	+ 1 3.1	1.551	2.520	5.8	20.5
3 2	10 50.84	+ 2 4.5	1.551	2.539	2.0	20.3
3 12	10 42.22	+ 3 10.1	1.578	2.559	4.5	20.5
3 22	10 34.82	+ 4 12.4	1.633	2.579	8.8	20.8
4 1	10 29.43	+ 5 5.3	1.712	2.598	12.6	21.1
205239 2000 QV_{173}			3 1.7 189°.12		2°.5/ 4.1 18	
1 22	11 17.20	− 2 50.2	1.911	2.648	16.7	21.0
2 1	11 13.68	− 2 35.7	1.813	2.648	13.7	20.8
2 11	11 7.74	− 2 0.5	1.735	2.646	10.1	20.6
2 21	10 59.86	− 1 6.1	1.682	2.645	6.1	20.3
3 2	10 50.83	+ 0 3.3	1.656	2.643	2.7	20.1
3 12	10 41.71	+ 1 21.0	1.660	2.640	4.5	20.2
3 22	10 33.55	+ 2 39.0	1.691	2.636	8.6	20.4
4 1	10 27.23	+ 3 50.0	1.748	2.632	12.5	20.7
381948 2010 DB_{27}			3 1.7 352°.83		8°.3/21.4 17	
1 22	11 16.22	+29 10.1	2.066	2.871	13.3	20.6
2 1	11 12.94	+30 38.9	1.999	2.870	11.1	20.5
2 11	11 7.19	+32 4.6	1.956	2.868	9.1	20.4
2 21	10 59.53	+33 18.2	1.938	2.867	8.3	20.3
3 2	10 50.84	+34 11.1	1.947	2.866	9.0	20.3
3 12	10 42.24	+34 37.9	1.981	2.865	10.9	20.5
3 22	10 34.77	+34 37.1	2.039	2.865	13.2	20.6
4 1	10 29.25	+34 10.4	2.116	2.865	15.4	20.8
298912 2004 TF_{99}			3 1.7 86°.42		1°.9/29.3 18	
1 22	11 21.26	+ 8 47.3	1.547	2.335	17.9	21.7
2 1	11 17.11	+ 9 25.7	1.484	2.357	14.0	21.5
2 11	11 10.12	+10 17.7	1.441	2.379	9.5	21.3
2 21	11 0.99	+11 16.9	1.423	2.400	4.7	21.1
3 2	10 50.81	+12 15.3	1.433	2.421	2.1	20.9
3 12	10 40.93	+13 4.6	1.470	2.442	6.2	21.3
3 22	10 32.53	+13 39.3	1.533	2.463	10.6	21.6
4 1	10 26.48	+13 56.7	1.620	2.482	14.5	21.8
86951 2000 HL_{88}			3 1.7 211°.78		0°.9/29.9 18	
1 22	11 18.09	+ 5 39.2	1.867	2.638	15.8	20.5
2 1	11 14.51	+ 6 22.9	1.769	2.632	12.6	20.3
2 11	11 8.40	+ 7 23.2	1.693	2.626	8.8	20.0
2 21	11 0.24	+ 8 35.6	1.642	2.618	4.3	19.8
3 2	10 50.83	+ 9 53.2	1.620	2.610	1.0	19.5
3 12	10 41.29	+11 7.7	1.626	2.601	5.4	19.8
3 22	10 32.74	+12 11.8	1.661	2.592	9.8	20.0
4 1	10 26.10	+13 0.1	1.720	2.582	13.8	20.2

338985 2004 FQ_{130} 3 1.7 309°.29 10°.6/19.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 24.75	+39 7.2	2.164	2.942	13.7	20.3
2 1	11 19.84	+40 21.7	2.097	2.931	12.1	20.2
2 11	11 12.04	+41 25.7	2.051	2.920	11.0	20.1
2 21	11 1.99	+42 9.4	2.030	2.910	10.6	20.0
3 2	10 50.78	+42 25.1	2.033	2.900	11.4	20.1
3 12	10 39.77	+42 8.8	2.060	2.890	12.9	20.1
3 22	10 30.21	+41 21.2	2.109	2.880	14.7	20.2
4 1	10 23.03	+40 6.2	2.177	2.870	16.5	20.4

288513 2004 FQ_{116} 3 1.7 287°.75 3°.8/27.6 18

1 22	11 14.34	+ 9 56.1	1.400	2.211	18.2	20.9
2 1	11 12.64	+11 10.0	1.300	2.189	14.5	20.6
2 11	11 7.82	+12 45.5	1.221	2.166	10.1	20.3
2 21	11 0.24	+14 35.2	1.166	2.143	5.4	19.9
3 2	10 50.82	+16 27.1	1.136	2.120	4.3	19.8
3 12	10 41.00	+18 7.4	1.132	2.097	8.8	20.0
3 22	10 32.30	+19 24.9	1.153	2.074	14.1	20.2
4 1	10 26.10	+20 13.2	1.194	2.051	18.9	20.4

500679 2012 VE_{63} 3 1.7 202°.85 2°.3/27.8 17

1 22	11 15.06	+13 2.9	2.886	3.659	10.8	22.5
2 1	11 11.09	+13 47.1	2.787	3.654	8.4	22.3
2 11	11 5.45	+14 37.6	2.714	3.649	5.8	22.1
2 21	10 58.53	+15 30.3	2.669	3.643	3.2	22.0
3 2	10 50.89	+16 20.3	2.655	3.637	2.5	21.9
3 12	10 43.21	+17 3.3	2.671	3.630	4.8	22.0
3 22	10 36.17	+17 35.8	2.716	3.623	7.6	22.2
4 1	10 30.34	+17 55.7	2.788	3.615	10.1	22.4

396735 2003 QD_{11} 3 1.7 207°.51 1°.0/29.7 18

1 22	11 17.92	+ 6 20.4	2.150	2.914	14.2	21.9
2 1	11 14.01	+ 7 8.0	2.048	2.908	11.3	21.7
2 11	11 7.85	+ 8 10.0	1.969	2.901	7.8	21.4
2 21	10 59.89	+ 9 21.9	1.917	2.893	3.9	21.2
3 2	10 50.85	+10 37.6	1.894	2.884	1.2	21.0
3 12	10 41.69	+11 49.8	1.901	2.874	5.0	21.2
3 22	10 33.37	+12 52.0	1.937	2.864	9.0	21.4
4 1	10 26.72	+13 39.9	1.999	2.852	12.5	21.6

50376 2000 CQ_{86} 3 1.7 61°.20 1°.1/ 1.1 18

1 22	11 22.59	+ 8 28.3	1.286	2.085	20.2	18.2
2 1	11 18.83	+ 8 31.2	1.220	2.098	16.1	18.0
2 11	11 11.70	+ 8 48.5	1.173	2.112	11.1	17.8
2 21	11 1.93	+ 9 15.1	1.148	2.125	5.5	17.5
3 2	10 50.79	+ 9 43.8	1.149	2.139	1.2	17.2
3 12	10 39.94	+10 6.9	1.176	2.153	6.4	17.6
3 22	10 30.84	+10 18.9	1.227	2.167	11.6	17.9
4 1	10 24.54	+10 16.8	1.301	2.182	16.1	18.2

28554 Adambowman 3 1.7 244°.73 1°.7/29.2 18

1 22	11 18.23	+ 9 45.3	2.034	2.811	14.5	19.5
2 1	11 14.43	+10 15.9	1.931	2.799	11.5	19.3
2 11	11 8.26	+10 57.6	1.850	2.786	7.9	19.0
2 21	11 0.14	+11 45.8	1.796	2.772	4.0	18.8
3 2	10 50.84	+12 34.7	1.770	2.759	1.9	18.6
3 12	10 41.41	+13 17.7	1.774	2.744	5.5	18.8
3 22	10 32.87	+13 49.7	1.805	2.730	9.6	19.0
4 1	10 26.11	+14 7.3	1.861	2.715	13.3	19.2

112419 2002 NH_{45} 3 1.7 160°.71 0°.8/29.9 18

1 22	11 18.23	+ 6 21.8	2.165	2.927	14.2	20.7
2 1	11 14.08	+ 7 0.6	2.076	2.934	11.2	20.5
2 11	11 7.76	+ 7 52.2	2.010	2.941	7.7	20.3
2 21	10 59.77	+ 8 52.4	1.970	2.946	3.8	20.1
3 2	10 50.86	+ 9 55.3	1.961	2.951	0.9	19.9
3 12	10 41.97	+10 54.6	1.981	2.955	4.6	20.1
3 22	10 34.00	+11 44.9	2.030	2.959	8.5	20.4
4 1	10 27.70	+12 22.3	2.105	2.961	11.8	20.6

502030 2015 AD_{105} 3 1.7 277°.23 1°.2/ 2.8 17

1 22	11 15.72	+ 2 16.2	1.994	2.753	15.4	21.0
2 1	11 12.44	+ 2 18.8	1.893	2.745	12.5	20.8
2 11	11 6.85	+ 2 36.3	1.813	2.737	8.9	20.6
2 21	10 59.42	+ 3 6.6	1.758	2.729	4.9	20.3
3 2	10 50.87	+ 3 46.1	1.731	2.721	1.3	20.0
3 12	10 42.22	+ 4 29.2	1.732	2.712	4.3	20.2
3 22	10 34.44	+ 5 10.2	1.761	2.704	8.5	20.5
4 1	10 28.40	+ 5 44.1	1.815	2.696	12.3	20.7

106466 2000 WF_{7} 3 1.7 24°.21 2°.9/28.6 18

1 22	11 11.55	+ 8 15.4	1.160	1.985	20.4	19.2
2 1	11 10.44	+ 9 17.7	1.099	1.994	16.0	19.0
2 11	11 6.09	+10 40.5	1.056	2.004	10.8	18.7
2 21	10 59.17	+12 14.8	1.036	2.015	5.4	18.4
3 2	10 50.88	+13 48.3	1.040	2.027	3.2	18.3
3 12	10 42.79	+15 8.0	1.068	2.041	7.9	18.7
3 22	10 36.32	+16 5.1	1.120	2.055	13.0	19.0
4 1	10 32.48	+16 35.5	1.191	2.070	17.4	19.3

432163 2009 BQ_{162} 3 1.7 64°.94 4°.1/26.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 13.97	+15 5.1	2.059	2.857	13.6	20.7
2 1	11 10.78	+16 29.6	1.997	2.878	10.6	20.6
2 11	11 5.47	+18 1.0	1.960	2.898	7.3	20.4
2 21	10 58.58	+19 32.0	1.949	2.919	4.6	20.3
3 2	10 50.91	+20 54.2	1.967	2.940	4.6	20.3
3 12	10 43.39	+22 0.8	2.014	2.960	7.1	20.5
3 22	10 36.88	+22 47.8	2.088	2.981	10.2	20.7
4 1	10 32.05	+23 13.7	2.185	3.001	12.9	20.9

454270 2014 GM_{30} 3 1.7 231°.70 2°.6/28.8 18

1 22	11 21.22	+10 33.5	1.644	2.432	17.0	22.3
2 1	11 17.46	+11 12.9	1.548	2.422	13.5	22.0
2 11	11 10.74	+12 5.8	1.473	2.411	9.3	21.8
2 21	11 1.55	+13 6.4	1.423	2.399	4.8	21.5
3 2	10 50.83	+14 6.4	1.400	2.387	2.9	21.3
3 12	10 39.93	+14 57.1	1.405	2.374	6.9	21.5
3 22	10 30.21	+15 31.9	1.437	2.361	11.7	21.8
4 1	10 22.78	+15 47.3	1.492	2.347	15.9	22.0

346237 2008 BW_{25} 3 1.7 341°.41 6°.3/ 6.3 17

1 22	11 20.95	− 8 11.2	2.198	2.888	16.0	20.0
2 1	11 16.42	− 9 31.6	2.092	2.883	13.8	19.8
2 11	11 9.57	−10 38.0	2.008	2.878	11.1	19.6
2 21	11 0.80	−11 27.8	1.947	2.873	8.4	19.4
3 2	10 50.85	−11 59.1	1.914	2.869	6.5	19.3
3 12	10 40.71	−12 12.7	1.910	2.865	6.7	19.3
3 22	10 31.37	−12 11.5	1.933	2.861	8.8	19.4
4 1	10 23.73	−12 0.3	1.982	2.858	11.6	19.6

149514 2003 FJ_{71} 3 1.7 297°.61 0°.7/ 1.1 17

1 22	11 13.83	+ 5 55.6	1.776	2.560	16.0	20.6
2 1	11 11.35	+ 6 26.6	1.673	2.544	12.8	20.3
2 11	11 6.36	+ 7 14.0	1.592	2.527	8.9	20.0
2 21	10 59.28	+ 8 13.8	1.534	2.511	4.5	19.7
3 2	10 50.90	+ 9 19.8	1.505	2.495	0.8	19.4
3 12	10 42.32	+10 24.0	1.503	2.480	5.4	19.7
3 22	10 34.68	+11 19.0	1.527	2.464	10.1	19.9
4 1	10 28.94	+11 59.3	1.575	2.449	14.2	20.1

296178 2009 BB_{150} 3 1.7 219°.40 0°.3/ 2.1 17

1 22	11 14.89	+ 4 24.4	2.716	3.465	11.9	21.5
2 1	11 11.05	+ 4 36.4	2.610	3.459	9.6	21.3
2 11	11 5.49	+ 4 58.6	2.528	3.452	6.7	21.1
2 21	10 58.59	+ 5 28.8	2.473	3.446	3.5	20.9
3 2	10 50.92	+ 6 3.7	2.448	3.439	0.3	20.6
3 12	10 43.20	+ 6 39.3	2.453	3.431	3.4	20.9
3 22	10 36.11	+ 7 11.6	2.488	3.424	6.7	21.1
4 1	10 30.28	+ 7 37.5	2.550	3.416	9.7	21.2

302259 2001 XJ_{112} 3 1.7 104°.24 9°.8/16.1 17

1 22	11 14.70	−29 31.7	2.771	3.297	15.8	20.9
2 1	11 11.14	−30 29.4	2.680	3.310	14.6	20.8
2 11	11 5.68	−31 4.4	2.604	3.322	13.2	20.7
2 21	10 58.72	−31 13.3	2.546	3.334	11.8	20.6
3 2	10 50.92	−30 54.2	2.510	3.346	10.5	20.5
3 12	10 43.08	−30 8.1	2.497	3.357	9.8	20.5
3 22	10 35.97	−28 58.9	2.508	3.369	9.9	20.5
4 1	10 30.30	−27 32.5	2.544	3.380	10.7	20.5

272940 2006 BQ_{270} 3 1.7 320°.36 5°.2/ 5.5 17

1 22	11 13.35	− 5 13.9	1.704	2.448	18.2	20.0
2 1	11 11.18	− 5 55.3	1.595	2.426	15.4	19.8
2 11	11 6.41	− 6 17.5	1.503	2.406	12.1	19.5
2 21	10 59.39	− 6 18.6	1.434	2.385	8.4	19.3
3 2	10 50.90	− 5 59.0	1.390	2.366	5.5	19.0
3 12	10 42.08	− 5 22.0	1.372	2.347	6.1	19.0
3 22	10 34.13	− 4 34.1	1.379	2.328	9.7	19.2
4 1	10 28.16	− 3 42.9	1.410	2.311	13.8	19.4

139081 2001 FU_{16} 3 1.7 349°.85 0°.2/ 1.6 18

1 22	11 11.93	+ 4 22.3	1.339	2.142	19.3	19.7
2 1	11 10.51	+ 4 46.7	1.256	2.136	15.5	19.4
2 11	11 6.11	+ 5 32.2	1.192	2.132	10.9	19.1
2 21	10 59.24	+ 6 34.9	1.151	2.128	5.5	18.8
3 2	10 50.91	+ 7 46.8	1.134	2.125	0.3	18.4
3 12	10 42.52	+ 8 57.7	1.142	2.123	6.0	18.8
3 22	10 35.43	+ 9 58.1	1.175	2.121	11.4	19.1
4 1	10 30.75	+10 41.2	1.230	2.121	16.1	19.4

382164 2012 HX_{49} 3 1.7 337°.75 9°.3/10.8 18

1 22	11 8.74	−20 18.8	1.173	1.882	26.6	20.9
2 1	11 8.60	−20 7.3	1.085	1.879	23.6	20.7
2 11	11 5.19	−19 4.6	1.010	1.876	19.8	20.4
2 21	10 58.94	−17 3.4	0.951	1.874	15.3	20.1
3 2	10 50.92	−14 3.2	0.913	1.872	11.1	19.9
3 12	10 42.73	−10 16.0	0.899	1.870	9.4	19.7
3 22	10 36.00	− 6 5.2	0.911	1.869	12.0	19.9
4 1	10 32.02	− 1 58.7	0.946	1.868	16.7	20.1

88864 2001 SY_{250} 3 1.7 171.°63 0.°6/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 13.92	+ 6 37.4	2.784	3.542	11.5	21.0
2 1	11 10.20	+ 7 9.6	2.688	3.545	9.1	20.8
2 11	11 4.85	+ 7 51.3	2.617	3.547	6.2	20.6
2 21	10 58.25	+ 8 39.4	2.573	3.549	3.1	20.4
3 2	10 50.96	+ 9 29.8	2.560	3.550	0.6	20.2
3 12	10 43.67	+10 18.0	2.577	3.551	3.7	20.5
3 22	10 37.02	+11 0.0	2.623	3.552	6.8	20.7
4 1	10 31.60	+11 32.8	2.697	3.552	9.6	20.8

85095 Hekla 3 1.7 46.°09 4.°0/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 41.04	+18 33.6	0.994	1.802	24.3	19.0
2 1	11 34.78	+17 46.8	0.927	1.809	19.6	18.7
2 11	11 23.50	+16 58.1	0.877	1.816	13.9	18.4
2 21	11 8.13	+16 0.0	0.849	1.824	7.6	18.1
3 2	10 50.70	+14 46.7	0.845	1.832	4.1	17.9
3 12	10 33.92	+13 16.9	0.867	1.841	9.0	18.2
3 22	10 20.13	+11 35.0	0.914	1.850	15.1	18.6
4 1	10 10.74	+ 9 46.5	0.982	1.860	20.4	18.9

264016 2009 PU_9 3 1.8 158.°00 6.°3/ 7.2 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.85	−10 36.6	2.092	2.778	16.8	21.4
2 1	11 14.81	−11 24.3	1.995	2.781	14.5	21.2
2 11	11 8.46	−11 52.6	1.918	2.784	11.7	21.1
2 21	11 0.23	−11 59.6	1.863	2.787	8.8	20.9
3 2	10 50.91	−11 44.9	1.834	2.790	6.6	20.7
3 12	10 41.50	−11 11.4	1.833	2.792	6.6	20.7
3 22	10 32.98	−10 24.3	1.860	2.794	8.7	20.9
4 1	10 26.22	− 9 30.5	1.912	2.796	11.5	21.0

282141 2001 QQ_{170} 3 1.8 229.°63 0.°2/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.10	+ 3 33.5	2.041	2.794	15.3	22.9
2 1	11 16.00	+ 4 1.9	1.928	2.778	12.3	22.7
2 11	11 9.44	+ 4 46.5	1.837	2.762	8.7	22.4
2 21	11 0.82	+ 5 44.3	1.771	2.745	4.5	22.1
3 2	10 50.91	+ 6 50.4	1.735	2.727	0.2	21.7
3 12	10 40.73	+ 7 57.5	1.729	2.707	4.7	22.1
3 22	10 31.38	+ 8 58.9	1.752	2.687	9.1	22.3
4 1	10 23.81	+ 9 48.8	1.801	2.665	13.1	22.5

341585 2007 UZ_{85} 3 1.8 112.°60 1.°6/29.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.94	+ 9 56.1	2.423	3.197	12.5	21.3
2 1	11 11.23	+10 32.0	2.339	3.206	9.8	21.1
2 11	11 5.66	+11 16.5	2.279	3.214	6.7	20.9
2 21	10 58.69	+12 5.4	2.247	3.223	3.3	20.7
3 2	10 50.97	+12 53.6	2.243	3.231	1.7	20.6
3 12	10 43.31	+13 36.1	2.270	3.239	4.6	20.8
3 22	10 36.45	+14 8.9	2.325	3.247	7.9	21.0
4 1	10 31.04	+14 29.5	2.406	3.255	10.8	21.2

472129 2014 BM_{34} 3 1.8 300.°03 3.°8/ 4.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 21.58	− 2 1.3	2.324	3.040	14.6	21.1
2 1	11 16.86	− 2 57.5	2.203	3.021	12.2	20.8
2 11	11 9.87	− 3 43.3	2.104	3.002	9.3	20.6
2 21	11 1.00	− 4 17.6	2.031	2.983	6.2	20.4
3 2	10 50.91	− 4 40.3	1.987	2.964	4.0	20.2
3 12	10 40.54	− 4 52.8	1.973	2.945	4.9	20.2
3 22	10 30.87	− 4 57.6	1.988	2.927	8.0	20.4
4 1	10 22.77	− 4 58.6	2.031	2.908	11.3	20.6

260125 2004 PB_{67} 3 1.8 223.°70 2.°8/ 4.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.11	− 1 44.6	2.334	3.057	14.4	20.6
2 1	11 14.77	− 2 3.9	2.223	3.048	11.9	20.4
2 11	11 8.32	− 2 9.4	2.134	3.039	8.9	20.2
2 21	11 0.15	− 2 1.6	2.071	3.029	5.6	19.9
3 2	10 50.93	− 1 42.2	2.036	3.019	2.9	19.7
3 12	10 41.58	− 1 14.7	2.032	3.009	4.2	19.8
3 22	10 32.96	− 0 43.5	2.056	2.998	7.5	20.0
4 1	10 25.89	− 0 13.2	2.108	2.987	10.9	20.2

100147 1993 TV_{15} 3 1.8 174.°37 1.°3/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.79	+ 9 0.8	2.373	3.137	13.0	21.3
2 1	11 14.35	+ 9 34.2	2.280	3.140	10.3	21.1
2 11	11 7.89	+10 17.1	2.211	3.143	7.0	20.9
2 21	10 59.85	+11 5.6	2.169	3.145	3.5	20.7
3 2	10 50.94	+11 54.4	2.157	3.146	1.5	20.6
3 12	10 42.04	+12 38.3	2.176	3.147	4.7	20.8
3 22	10 33.98	+13 12.8	2.224	3.146	8.2	21.0
4 1	10 27.46	+13 35.3	2.298	3.146	11.3	21.2

276324 2002 TL_{208} 3 1.8 80.°76 1.°6/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.69	+ 0 30.4	1.775	2.527	17.2	21.0
2 1	11 15.47	+ 0 40.5	1.707	2.554	13.9	20.8
2 11	11 8.81	+ 1 8.4	1.660	2.581	9.9	20.6
2 21	11 0.31	+ 1 51.1	1.638	2.607	5.5	20.4
3 2	10 50.94	+ 2 43.7	1.644	2.633	1.7	20.2
3 12	10 41.80	+ 3 39.2	1.678	2.659	4.4	20.4
3 22	10 33.91	+ 4 31.2	1.740	2.684	8.5	20.7
4 1	10 28.03	+ 5 14.3	1.828	2.708	12.2	21.0

376186 2011 CE_{51} 3 1.8 187.°54 0.°2/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 16.97	+ 4 41.7	2.118	2.879	14.5	21.7
2 1	11 13.21	+ 4 57.2	2.023	2.879	11.6	21.5
2 11	11 7.26	+ 5 25.6	1.950	2.878	8.1	21.3
2 21	10 59.60	+ 6 4.0	1.904	2.878	4.2	21.1
3 2	10 50.95	+ 6 48.0	1.886	2.877	0.2	20.7
3 12	10 42.28	+ 7 31.8	1.897	2.875	4.3	21.1
3 22	10 34.50	+ 8 10.4	1.937	2.874	8.2	21.3
4 1	10 28.38	+ 8 39.6	2.002	2.872	11.8	21.5

33045 1997 UF_1 3 1.8 113.°59 2.°3/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.46	− 1 40.6	1.696	2.445	18.0	19.1
2 1	11 14.83	− 1 29.5	1.616	2.459	14.7	18.9
2 11	11 8.59	− 0 57.4	1.556	2.472	10.7	18.7
2 21	11 0.31	− 0 6.4	1.519	2.485	6.3	18.5
3 2	10 50.93	+ 0 58.6	1.510	2.498	2.5	18.3
3 12	10 41.64	+ 2 9.9	1.529	2.510	4.7	18.4
3 22	10 33.55	+ 3 19.4	1.575	2.521	9.0	18.7
4 1	10 27.54	+ 4 20.1	1.647	2.532	13.0	19.0

196165 2002 VV_{51} 3 1.8 44.°76 2.°3/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.61	+ 9 59.1	1.846	2.639	15.1	19.7
2 1	11 10.71	+10 53.0	1.780	2.658	11.8	19.5
2 11	11 5.55	+11 58.3	1.736	2.676	8.0	19.3
2 21	10 58.69	+13 8.6	1.718	2.695	4.0	19.1
3 2	10 50.98	+14 16.6	1.728	2.715	2.6	19.0
3 12	10 43.44	+15 15.0	1.767	2.735	5.9	19.3
3 22	10 36.99	+15 58.5	1.832	2.755	9.6	19.5
4 1	10 32.36	+16 24.6	1.921	2.775	12.9	19.8

127054 2002 GD_{47} 3 1.8 137.°97 0.°6/ 2.4 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.79	+ 2 49.3	2.196	2.950	14.3	20.5
2 1	11 12.14	+ 3 10.8	2.106	2.957	11.4	20.3
2 11	11 6.43	+ 3 46.4	2.039	2.963	8.0	20.1
2 21	10 59.14	+ 4 33.2	1.997	2.969	4.2	19.8
3 2	10 50.98	+ 5 26.6	1.985	2.975	0.6	19.6
3 12	10 42.85	+ 6 21.1	2.002	2.981	3.9	19.8
3 22	10 35.58	+ 7 11.0	2.048	2.986	7.7	20.1
4 1	10 29.88	+ 7 52.0	2.119	2.992	11.1	20.3

72443 2001 CU_{47} 3 1.8 11.°01 1.°6/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.07	+ 8 25.1	1.258	2.072	19.7	19.0
2 1	11 13.12	+ 8 43.8	1.186	2.074	15.7	18.7
2 11	11 7.95	+ 9 18.8	1.133	2.076	10.8	18.4
2 21	11 0.18	+10 4.5	1.101	2.080	5.4	18.1
3 2	10 50.96	+10 52.7	1.094	2.084	1.7	17.9
3 12	10 41.83	+11 33.9	1.113	2.090	6.8	18.2
3 22	10 34.24	+12 1.2	1.155	2.096	12.0	18.5
4 1	10 29.27	+12 10.5	1.218	2.104	16.6	18.8

89265 2001 VE_5 3 1.8 23.°34 6.°8/23.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.52	+23 24.5	2.009	2.820	13.5	18.8
2 1	11 10.75	+24 55.6	1.943	2.825	10.8	18.7
2 11	11 5.66	+26 28.0	1.901	2.830	8.3	18.5
2 21	10 58.80	+27 53.1	1.886	2.835	6.8	18.5
3 2	10 50.99	+29 2.0	1.897	2.841	7.5	18.5
3 12	10 43.27	+29 48.5	1.935	2.847	9.6	18.6
3 22	10 36.60	+30 9.8	1.997	2.854	12.2	18.8
4 1	10 31.75	+30 6.3	2.081	2.861	14.7	19.0

459270 2012 FB_{67} 3 1.8 179.°93 1.°2/29.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.68	+ 8 10.2	2.159	2.929	14.0	22.2
2 1	11 13.72	+ 8 44.7	2.067	2.930	11.1	22.0
2 11	11 7.60	+ 9 30.6	1.998	2.931	7.6	21.8
2 21	10 59.77	+10 23.6	1.955	2.931	3.8	21.5
3 2	10 50.98	+11 17.9	1.942	2.931	1.4	21.4
3 12	10 42.18	+12 7.6	1.958	2.930	4.9	21.6
3 22	10 34.27	+12 47.5	2.003	2.929	8.7	21.8
4 1	10 28.03	+13 14.4	2.073	2.928	12.1	22.0

413107 2001 UM_{196} 3 1.8 82.°05 3.°5/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.29	+14 10.4	1.802	2.596	15.5	21.1
2 1	11 15.32	+14 53.3	1.731	2.609	12.1	20.9
2 11	11 8.81	+15 43.9	1.683	2.622	8.3	20.7
2 21	11 0.38	+16 35.5	1.661	2.635	4.7	20.5
3 2	10 50.97	+17 20.8	1.666	2.648	3.8	20.5
3 12	10 41.74	+17 53.2	1.700	2.661	6.8	20.7
3 22	10 33.75	+18 9.0	1.760	2.673	10.5	20.9
4 1	10 27.82	+18 7.1	1.844	2.686	13.9	21.2

471809 2012 VN_{111} 3 1.8 147.°37 0.°7/29.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.15	+ 7 28.4	2.812	3.572	11.3	22.3
2 1	11 10.35	+ 8 0.1	2.722	3.580	8.9	22.1
2 11	11 4.93	+ 8 40.6	2.656	3.587	6.1	22.0
2 21	10 58.31	+ 9 26.7	2.618	3.593	3.0	21.8
3 2	10 51.03	+10 14.2	2.610	3.600	0.8	21.6
3 12	10 43.78	+10 58.8	2.632	3.606	3.7	21.8
3 22	10 37.20	+11 36.8	2.684	3.611	6.7	22.0
4 1	10 31.83	+12 5.3	2.763	3.617	9.4	22.2

25322 Rebeccajean 3 1.8 349°.27 2°.0/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 16.25	+ 1 25.1	1.373	2.156	19.9	18.3
2 1	11 13.91	+ 1 13.9	1.288	2.153	16.3	18.0
2 11	11 8.48	+ 1 23.0	1.222	2.151	11.8	17.7
2 21	11 0.49	+ 1 51.0	1.177	2.148	6.7	17.4
3 2	10 50.97	+ 2 33.3	1.158	2.147	2.2	17.1
3 12	10 41.38	+ 3 22.3	1.164	2.146	5.5	17.3
3 22	10 33.12	+ 4 9.5	1.195	2.145	10.7	17.6
4 1	10 27.35	+ 4 47.7	1.248	2.145	15.5	17.9

358027 2006 ED_{67} 3 1.8 86°.28 1°.1/29.8 18

1 22	11 16.92	+ 5 14.8	1.498	2.286	18.3	21.2
2 1	11 13.95	+ 6 6.7	1.427	2.299	14.5	21.0
2 11	11 8.16	+ 7 18.1	1.375	2.313	9.9	20.8
2 21	11 0.16	+ 8 42.6	1.349	2.326	4.9	20.5
3 2	10 50.99	+10 11.1	1.349	2.339	1.3	20.3
3 12	10 41.95	+11 33.3	1.376	2.352	6.0	20.6
3 22	10 34.26	+12 40.7	1.430	2.364	10.8	20.9
4 1	10 28.86	+13 28.4	1.506	2.377	14.9	21.2

215847 2005 EL_5 3 1.8 330°.49 1°.9/29.3 18

1 22	11 9.30	+ 6 43.4	1.267	2.086	19.4	20.2
2 1	11 8.76	+ 7 29.7	1.177	2.068	15.5	19.9
2 11	11 5.16	+ 8 38.9	1.105	2.051	10.7	19.6
2 21	10 58.93	+10 5.4	1.056	2.035	5.3	19.2
3 2	10 51.01	+11 39.2	1.031	2.021	2.2	18.9
3 12	10 42.85	+13 7.6	1.031	2.007	7.4	19.2
3 22	10 35.95	+14 19.1	1.054	1.994	13.0	19.5
4 1	10 31.55	+15 6.4	1.097	1.983	18.0	19.7

458916 2011 UO_{267} 3 1.8 135°.34 0°.1/ 1.9 18

1 22	11 21.05	+ 4 33.2	1.885	2.646	16.1	22.4
2 1	11 16.60	+ 4 50.7	1.803	2.658	12.8	22.2
2 11	11 9.67	+ 5 22.6	1.742	2.670	9.0	21.9
2 21	11 0.83	+ 6 5.3	1.707	2.681	4.6	21.7
3 2	10 50.97	+ 6 53.6	1.701	2.692	0.2	21.4
3 12	10 41.20	+ 7 40.9	1.724	2.702	4.6	21.7
3 22	10 32.57	+ 8 21.5	1.775	2.711	8.9	22.0
4 1	10 25.90	+ 8 51.3	1.851	2.720	12.6	22.3

207029 2004 VV_{63} 3 1.8 86°.93 0°.1/ 1.8 18

1 22	11 19.31	+ 3 35.9	1.576	2.350	18.2	21.0
2 1	11 15.58	+ 4 7.2	1.508	2.371	14.4	20.8
2 11	11 9.12	+ 4 57.0	1.461	2.392	10.0	20.6
2 21	11 0.58	+ 6 0.2	1.438	2.413	5.1	20.3
3 2	10 50.99	+ 7 9.8	1.442	2.433	0.1	20.0
3 12	10 41.63	+ 8 16.9	1.474	2.453	5.2	20.4
3 22	10 33.63	+ 9 14.1	1.533	2.472	9.8	20.7
4 1	10 27.86	+ 9 56.5	1.616	2.491	13.8	21.0

459614 2013 HN_{79} 3 1.8 278°.10 2°.0/ 3.4 16

1 22	11 15.63	− 0 5.5	1.655	2.419	17.8	21.9
2 1	11 13.05	− 0 0.4	1.550	2.403	14.7	21.7
2 11	11 7.74	+ 0 25.1	1.464	2.387	10.7	21.4
2 21	11 0.11	+ 1 10.0	1.401	2.370	6.2	21.1
3 2	10 51.00	+ 2 10.1	1.365	2.354	2.1	20.8
3 12	10 41.60	+ 3 18.1	1.356	2.337	5.0	20.9
3 22	10 33.18	+ 4 25.5	1.373	2.321	9.9	21.2
4 1	10 26.83	+ 5 24.5	1.415	2.304	14.5	21.4

278272 2007 FS_{46} 3 1.8 290°.98 4°.2/27.0 18

1 22	11 16.65	+15 30.9	1.852	2.652	14.9	20.7
2 1	11 13.56	+16 21.1	1.754	2.635	11.8	20.4
2 11	11 7.89	+17 19.9	1.678	2.617	8.3	20.2
2 21	11 0.10	+18 20.6	1.628	2.600	5.0	20.0
3 2	10 51.00	+19 15.3	1.606	2.583	4.6	19.9
3 12	10 41.76	+19 56.1	1.611	2.566	7.7	20.0
3 22	10 33.50	+20 18.0	1.642	2.549	11.5	20.2
4 1	10 27.22	+20 19.1	1.695	2.533	15.1	20.4

152051 2004 PH_{39} 3 1.8 296°.31 2°.1/ 3.4 18

1 22	11 16.40	+ 0 51.1	1.834	2.592	16.5	19.8
2 1	11 13.28	+ 0 38.8	1.732	2.581	13.6	19.5
2 11	11 7.65	+ 0 42.4	1.649	2.570	9.9	19.3
2 21	10 59.97	+ 1 0.9	1.591	2.559	5.8	19.0
3 2	10 51.01	+ 1 31.2	1.559	2.547	2.2	18.7
3 12	10 41.87	+ 2 8.2	1.556	2.537	4.6	18.9
3 22	10 33.67	+ 2 46.0	1.580	2.526	9.0	19.1
4 1	10 27.37	+ 3 18.7	1.628	2.515	13.0	19.3

276573 2003 SY_{244} 3 1.8 206°.78 0°.9/ 2.8 17

1 22	11 14.48	+ 1 31.4	2.345	3.093	13.7	21.3
2 1	11 11.07	+ 1 53.6	2.244	3.089	11.0	21.1
2 11	11 5.71	+ 2 30.3	2.165	3.086	7.8	20.9
2 21	10 58.82	+ 3 19.1	2.112	3.082	4.3	20.6
3 2	10 51.04	+ 4 15.9	2.088	3.078	1.0	20.4
3 12	10 43.20	+ 5 15.4	2.093	3.073	3.7	20.6
3 22	10 36.10	+ 6 12.0	2.128	3.069	7.4	20.8
4 1	10 30.45	+ 7 0.8	2.190	3.063	10.7	21.0

96376 1998 AY 3 1.8 8°.82 4°.2/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 9.98	+11 29.3	1.026	1.869	21.1	18.5
2 1	11 9.71	+12 21.0	0.965	1.870	16.6	18.3
2 11	11 5.92	+13 30.2	0.922	1.874	11.4	18.0
2 21	10 59.26	+14 47.2	0.899	1.879	6.1	17.7
3 2	10 51.03	+15 59.2	0.900	1.885	4.6	17.6
3 12	10 42.98	+16 53.4	0.923	1.894	9.2	17.9
3 22	10 36.68	+17 22.4	0.967	1.904	14.4	18.2
4 1	10 33.27	+17 23.5	1.030	1.915	19.0	18.5

380882 2006 DY_{19} 3 1.8 286°.38 1°.0/29.9 17

1 22	11 15.02	+ 7 11.2	1.993	2.771	14.7	21.8
2 1	11 11.86	+ 7 42.1	1.902	2.769	11.7	21.6
2 11	11 6.44	+ 8 26.0	1.832	2.767	8.0	21.4
2 21	10 59.24	+ 9 18.6	1.789	2.765	4.0	21.1
3 2	10 51.03	+10 14.1	1.773	2.763	1.1	20.9
3 12	10 42.80	+11 5.9	1.786	2.761	4.9	21.2
3 22	10 35.48	+11 48.5	1.827	2.760	9.0	21.4
4 1	10 29.90	+12 17.9	1.893	2.758	12.6	21.6

84253 2002 SG_{42} 3 1.8 353°.56 1°.6/29.8 18

1 22	11 19.48	+ 8 59.0	1.269	2.075	20.0	19.8
2 1	11 16.74	+ 9 11.9	1.190	2.074	16.0	19.5
2 11	11 10.58	+ 9 40.1	1.131	2.072	11.1	19.2
2 21	11 1.60	+10 18.3	1.093	2.071	5.5	18.9
3 2	10 50.98	+10 58.4	1.081	2.071	1.8	18.7
3 12	10 40.36	+11 31.6	1.094	2.071	6.9	19.0
3 22	10 31.33	+11 50.9	1.131	2.071	12.4	19.3
4 1	10 25.09	+11 52.9	1.189	2.071	17.2	19.6

111187 2001 WG_8 3 1.8 115°.72 3°.0/27.8 18

1 22	11 18.01	+12 45.6	2.043	2.829	14.2	20.6
2 1	11 14.02	+13 40.3	1.969	2.842	11.1	20.4
2 11	11 7.78	+14 43.7	1.919	2.856	7.6	20.2
2 21	10 59.84	+15 49.4	1.895	2.869	4.2	20.1
3 2	10 51.02	+16 50.4	1.900	2.882	3.3	20.0
3 12	10 42.33	+17 40.2	1.934	2.894	6.2	20.2
3 22	10 34.68	+18 14.5	1.995	2.906	9.6	20.4
4 1	10 28.82	+18 31.4	2.081	2.917	12.8	20.7

29383 1996 HA_{23} 3 1.8 294°.75 3°.2/ 4.5 18

1 22	11 13.35	− 3 17.9	1.738	2.489	17.6	19.1
2 1	11 11.13	− 3 19.0	1.628	2.469	14.7	18.8
2 11	11 6.35	− 2 58.4	1.537	2.450	11.1	18.6
2 21	10 59.40	− 2 15.9	1.468	2.430	7.0	18.3
3 2	10 51.03	− 1 14.5	1.426	2.411	3.5	18.0
3 12	10 42.37	− 0 0.5	1.411	2.392	5.0	18.1
3 22	10 34.57	+ 1 17.6	1.422	2.372	9.4	18.3
4 1	10 28.70	+ 2 31.1	1.458	2.354	13.8	18.5

431085 2006 DL_{57} 3 1.8 3°.83 0°.3/ 1.6 18

1 22	11 18.22	+ 7 30.9	1.762	2.543	16.3	20.8
2 1	11 14.66	+ 7 25.5	1.675	2.543	13.0	20.6
2 11	11 8.52	+ 7 31.3	1.609	2.543	9.0	20.4
2 21	11 0.34	+ 7 45.1	1.567	2.543	4.6	20.1
3 2	10 51.01	+ 8 2.5	1.553	2.544	0.3	19.8
3 12	10 41.71	+ 8 18.1	1.567	2.546	5.0	20.1
3 22	10 33.53	+ 8 27.5	1.608	2.548	9.4	20.4
4 1	10 27.37	+ 8 27.4	1.673	2.550	13.3	20.6

271708 2004 RG_{182} 3 1.8 123°.37 0°.4/ 2.2 18

1 22	11 19.03	+ 4 21.2	2.371	3.119	13.5	21.4
2 1	11 14.42	+ 4 31.9	2.288	3.135	10.8	21.3
2 11	11 7.86	+ 4 53.9	2.227	3.151	7.5	21.1
2 21	10 59.82	+ 5 24.4	2.193	3.166	3.9	20.9
3 2	10 51.03	+ 5 59.5	2.189	3.180	0.4	20.6
3 12	10 42.33	+ 6 34.6	2.216	3.194	3.7	20.9
3 22	10 34.52	+ 7 5.7	2.272	3.208	7.3	21.1
4 1	10 28.25	+ 7 29.3	2.354	3.221	10.4	21.4

198492 2004 XU_{62} 3 1.8 223°.89 2°.9/27.7 18

1 22	11 16.58	+13 29.9	2.306	3.088	12.8	20.8
2 1	11 12.82	+14 17.7	2.210	3.081	10.1	20.6
2 11	11 6.97	+15 13.3	2.137	3.074	7.0	20.4
2 21	10 59.48	+16 11.6	2.092	3.066	3.9	20.2
3 2	10 51.04	+17 6.2	2.077	3.058	3.2	20.1
3 12	10 42.54	+17 51.4	2.090	3.049	5.9	20.3
3 22	10 34.85	+18 22.8	2.132	3.040	9.2	20.5
4 1	10 28.72	+18 38.2	2.198	3.031	12.3	20.7

419176 2009 TH_{33} 3 1.8 110°.61 6°.5/24.5 18

1 22	11 21.33	+24 13.8	2.056	2.851	13.8	20.9
2 1	11 16.72	+25 19.4	1.991	2.863	11.0	20.8
2 11	11 9.68	+26 24.3	1.951	2.875	8.4	20.6
2 21	11 0.80	+27 20.5	1.936	2.886	6.6	20.5
3 2	10 51.01	+28 0.5	1.950	2.898	7.0	20.6
3 12	10 41.44	+28 19.1	1.991	2.909	9.1	20.7
3 22	10 33.08	+28 14.9	2.057	2.920	11.7	20.9
4 1	10 26.72	+27 49.3	2.146	2.930	14.2	21.1

57885 2002 AU_{181} 3 1.8 300°.22 5°.9/ 7.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 16.38	− 9 57.6	2.321	3.006	15.4	19.0
2 1	11 12.74	−10 50.4	2.211	2.997	13.2	18.8
2 11	11 7.01	−11 27.0	2.121	2.988	10.8	18.6
2 21	10 59.56	−11 45.2	2.055	2.979	8.2	18.4
3 2	10 51.04	−11 44.6	2.015	2.969	6.2	18.3
3 12	10 42.35	−11 26.9	2.003	2.960	6.2	18.2
3 22	10 34.35	−10 56.0	2.018	2.952	8.2	18.3
4 1	10 27.86	−10 17.4	2.059	2.943	10.9	18.5

37322 2001 QM_{76} 3 1.8 171°.12 3°.8/ 5.7 18

1 22	11 15.54	− 6 37.3	2.178	2.890	15.6	19.2
2 1	11 12.07	− 6 37.9	2.080	2.892	13.0	19.1
2 11	11 6.49	− 6 18.9	2.001	2.894	10.0	18.9
2 21	10 59.25	− 5 40.6	1.947	2.896	6.7	18.7
3 2	10 51.06	− 4 45.5	1.920	2.897	4.1	18.5
3 12	10 42.80	− 3 38.8	1.923	2.898	4.6	18.5
3 22	10 35.38	− 2 26.8	1.954	2.899	7.6	18.7
4 1	10 29.54	− 1 16.4	2.011	2.899	10.9	18.9

105846 2000 SK_{164} 3 1.8 70°.97 21°.4/19.1 17

1 22	11 47.65	+49 2.2	1.061	1.842	24.7	18.7
2 1	11 41.50	+51 6.4	1.036	1.853	22.9	18.6
2 11	11 28.63	+52 39.4	1.027	1.864	21.7	18.6
2 21	11 10.64	+53 19.9	1.033	1.876	21.4	18.6
3 2	10 50.80	+52 53.4	1.056	1.887	22.1	18.7
3 12	10 33.00	+51 19.8	1.096	1.898	23.4	18.8
3 22	10 19.87	+48 51.4	1.150	1.910	25.1	19.0
4 1	10 12.37	+45 45.6	1.219	1.921	26.9	19.2

458915 2011 UH_{252} 3 1.8 112°.03 2°.6/28.5 18

1 22	11 20.68	+10 36.4	1.807	2.590	15.9	21.9
2 1	11 16.36	+11 28.9	1.738	2.609	12.4	21.7
2 11	11 9.51	+12 32.6	1.690	2.627	8.4	21.5
2 21	11 0.75	+13 41.0	1.669	2.645	4.3	21.3
3 2	10 51.03	+14 46.2	1.677	2.662	2.8	21.2
3 12	10 41.50	+15 40.6	1.713	2.679	6.2	21.5
3 22	10 33.21	+16 19.3	1.777	2.695	10.1	21.8
4 1	10 26.98	+16 39.9	1.865	2.711	13.6	22.0

127882 2003 GX_5 3 1.8 302°.94 3°.8/ 4.8 18

1 22	11 11.87	− 4 28.0	1.419	2.185	20.2	19.5
2 1	11 10.55	− 4 26.3	1.317	2.167	17.0	19.2
2 11	11 6.31	− 3 56.7	1.233	2.149	12.9	18.9
2 21	10 59.52	− 2 58.5	1.169	2.132	8.2	18.6
3 2	10 51.05	− 1 34.8	1.130	2.115	4.1	18.3
3 12	10 42.24	+ 0 5.5	1.116	2.098	5.7	18.3
3 22	10 34.49	+ 1 50.7	1.127	2.082	10.7	18.5
4 1	10 29.06	+ 3 28.7	1.161	2.066	15.8	18.8

405894 2006 GQ_{28} 3 1.8 183°.64 2°.4/ 4.0 18

1 22	11 17.07	− 2 37.8	1.937	2.675	16.5	21.8
2 1	11 13.58	− 2 22.8	1.840	2.675	13.5	21.5
2 11	11 7.71	− 1 47.7	1.764	2.675	10.0	21.3
2 21	10 59.94	− 0 53.9	1.712	2.675	6.0	21.1
3 2	10 51.05	+ 0 14.4	1.687	2.674	2.6	20.9
3 12	10 42.09	+ 1 30.4	1.692	2.672	4.4	21.0
3 22	10 34.08	+ 2 46.5	1.725	2.670	8.4	21.2
4 1	10 27.87	+ 3 55.6	1.784	2.668	12.3	21.4

347212 2011 HK_{37} 3 1.8 153°.18 3°.6/26.7 18

1 22	11 15.82	+15 38.9	2.310	3.098	12.6	21.1
2 1	11 12.14	+16 38.3	2.228	3.102	9.9	20.9
2 11	11 6.44	+17 43.9	2.170	3.106	6.9	20.8
2 21	10 59.18	+18 49.7	2.139	3.110	4.2	20.6
3 2	10 51.08	+19 49.2	2.138	3.113	4.0	20.6
3 12	10 43.01	+20 36.5	2.166	3.116	6.4	20.7
3 22	10 35.81	+21 7.8	2.221	3.119	9.4	20.9
4 1	10 30.17	+21 21.6	2.301	3.121	12.2	21.1

508223 2015 GD_{42} 3 1.8 197°.09 3°.6/26.2 17

1 22	11 13.76	+16 33.7	2.579	3.368	11.5	21.8
2 1	11 10.35	+17 35.2	2.492	3.367	9.0	21.6
2 11	11 5.12	+18 41.9	2.430	3.365	6.3	21.4
2 21	10 58.50	+19 48.4	2.395	3.364	4.0	21.3
3 2	10 51.10	+20 48.7	2.391	3.362	4.0	21.3
3 12	10 43.69	+21 37.5	2.415	3.360	6.2	21.4
3 22	10 37.02	+22 11.3	2.468	3.358	8.9	21.6
4 1	10 31.71	+22 28.5	2.544	3.356	11.4	21.8

519605 2012 TC_{330} 3 1.8 206°.02 0°.8/ 2.7 17

1 22	11 13.94	+ 2 13.3	2.564	3.310	12.7	22.3
2 1	11 10.45	+ 2 31.0	2.462	3.307	10.2	22.1
2 11	11 5.19	+ 3 1.2	2.383	3.304	7.2	21.9
2 21	10 58.54	+ 3 41.8	2.330	3.301	3.9	21.7
3 2	10 51.10	+ 4 29.0	2.307	3.297	0.8	21.4
3 12	10 43.61	+ 5 18.4	2.314	3.293	3.5	21.6
3 22	10 36.80	+ 6 5.1	2.350	3.289	6.8	21.9
4 1	10 31.29	+ 6 45.2	2.413	3.285	9.9	22.0

230824 2004 NO_{12} 3 1.8 203°.12 0°.2/ 1.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 18.38	+ 5 59.6	2.485	3.238	12.8	22.0
2 1	11 14.02	+ 6 16.8	2.381	3.233	10.2	21.8
2 11	11 7.70	+ 6 44.4	2.301	3.228	7.1	21.6
2 21	10 59.83	+ 7 19.7	2.247	3.222	3.6	21.3
3 2	10 51.07	+ 7 58.6	2.224	3.215	0.2	21.0
3 12	10 42.25	+ 8 36.4	2.231	3.208	3.9	21.3
3 22	10 34.16	+ 9 9.0	2.268	3.200	7.5	21.5
4 1	10 27.51	+ 9 32.9	2.331	3.191	10.7	21.7

294052 2007 TN_{152} 3 1.8 117°.55 0°.9/ 2.5 18

1 22	11 19.85	+ 2 46.3	1.755	2.517	17.0	20.9
2 1	11 15.87	+ 2 56.6	1.675	2.529	13.7	20.7
2 11	11 9.30	+ 3 23.4	1.615	2.540	9.7	20.5
2 21	11 0.72	+ 4 3.8	1.579	2.551	5.2	20.3
3 2	10 51.06	+ 4 52.4	1.572	2.562	0.9	20.0
3 12	10 41.49	+ 5 42.5	1.593	2.573	4.6	20.3
3 22	10 33.10	+ 6 27.7	1.641	2.583	9.1	20.5
4 1	10 26.78	+ 7 3.0	1.714	2.592	13.0	20.8

417500 2006 SX_{112} 3 1.8 214°.85 0°.1/ 1.9 16

1 22	11 18.27	+ 4 15.9	2.075	2.833	14.9	22.7
2 1	11 14.41	+ 4 37.9	1.973	2.827	11.9	22.5
2 11	11 8.25	+ 5 14.3	1.892	2.819	8.4	22.2
2 21	11 0.22	+ 6 2.0	1.837	2.811	4.3	21.9
3 2	10 51.08	+ 6 56.2	1.812	2.803	0.1	21.6
3 12	10 41.82	+ 7 50.6	1.815	2.793	4.5	21.9
3 22	10 33.42	+ 8 39.3	1.848	2.784	8.6	22.1
4 1	10 26.75	+ 9 17.5	1.905	2.773	12.4	22.4

460372 2014 SB_{21} 3 1.8 329°.01 2°.8/29.0 18

1 22	11 22.28	+13 3.5	1.511	2.309	17.7	21.4
2 1	11 18.45	+13 13.4	1.426	2.305	14.1	21.2
2 11	11 11.49	+13 31.8	1.362	2.301	9.8	20.9
2 21	11 1.99	+13 53.1	1.322	2.298	5.1	20.6
3 2	10 51.04	+14 10.4	1.308	2.295	3.0	20.5
3 12	10 40.11	+14 17.0	1.322	2.292	7.0	20.7
3 22	10 30.60	+14 9.0	1.361	2.290	11.7	21.0
4 1	10 23.61	+13 45.2	1.422	2.288	15.9	21.2

271655 2004 QR_{25} 3 1.8 300°.99 15°.1/ 7.3 18

1 22	11 28.50	−22 30.7	1.894	2.491	20.8	20.3
2 1	11 23.96	−25 21.5	1.774	2.464	19.4	20.1
2 11	11 16.03	−27 59.1	1.671	2.436	17.8	19.9
2 21	11 4.81	−30 14.0	1.589	2.409	16.2	19.7
3 2	10 50.98	−31 55.6	1.529	2.382	15.2	19.5
3 12	10 35.87	−32 56.9	1.493	2.354	15.2	19.5
3 22	10 21.19	−33 16.5	1.481	2.327	16.3	19.5
4 1	10 8.67	−32 59.8	1.489	2.301	18.1	19.5

33204 1998 FP_{57} 3 1.8 14°.46 3°.5/ 5.7 18

1 22	11 10.20	− 6 51.5	2.111	2.835	15.7	19.1
2 1	11 7.93	− 6 34.8	2.016	2.837	13.1	19.0
2 11	11 3.67	− 5 56.6	1.941	2.840	10.0	18.8
2 21	10 57.85	− 4 57.8	1.890	2.842	6.6	18.5
3 2	10 51.15	− 3 41.8	1.866	2.845	3.8	18.4
3 12	10 44.42	− 2 14.9	1.871	2.849	4.3	18.4
3 22	10 38.49	− 0 44.6	1.903	2.853	7.5	18.6
4 1	10 34.08	+ 0 41.7	1.962	2.857	10.8	18.8

264572 2001 TD_{73} 3 1.8 115°.77 1°.6/ 3.5 18

1 22	11 17.71	− 0 47.0	2.267	3.000	14.5	22.1
2 1	11 13.49	− 0 25.8	2.187	3.021	11.7	21.9
2 11	11 7.28	+ 0 11.3	2.128	3.041	8.4	21.7
2 21	10 59.58	+ 1 1.7	2.095	3.061	4.8	21.5
3 2	10 51.12	+ 2 1.3	2.091	3.080	1.7	21.4
3 12	10 42.77	+ 3 4.2	2.118	3.098	3.7	21.5
3 22	10 35.32	+ 4 4.8	2.174	3.116	7.2	21.8
4 1	10 29.44	+ 4 58.2	2.258	3.133	10.4	22.0

3839 Bogaevskij 3 1.8 262°.71 1°.7/ 3.2 18 R

1 22	11 16.77	+ 0 33.6	1.882	2.636	16.3	17.6
2 1	11 13.62	+ 0 40.7	1.771	2.619	13.4	17.3
2 11	11 7.97	+ 1 5.6	1.680	2.601	9.7	17.0
2 21	11 0.21	+ 1 47.0	1.614	2.583	5.5	16.7
3 2	10 51.10	+ 2 40.9	1.576	2.565	1.8	16.5
3 12	10 41.73	+ 3 41.1	1.565	2.546	4.6	16.6
3 22	10 33.21	+ 4 40.5	1.583	2.527	9.1	16.8
4 1	10 26.52	+ 5 32.3	1.625	2.507	13.3	17.0

20467 Hibbitts 3 1.8 184°.09 3°.5/ 5.2 18

1 22	11 18.03	− 5 21.8	2.099	2.815	16.0	19.0
2 1	11 14.16	− 5 23.6	1.998	2.815	13.3	18.8
2 11	11 8.04	− 5 6.1	1.918	2.815	10.1	18.6
2 21	11 0.11	− 4 29.5	1.862	2.815	6.6	18.4
3 2	10 51.11	− 3 36.5	1.834	2.813	3.8	18.2
3 12	10 42.03	− 2 32.4	1.835	2.811	4.6	18.3
3 22	10 33.81	− 1 23.7	1.864	2.809	8.0	18.5
4 1	10 27.30	− 0 17.3	1.920	2.805	11.5	18.7

267403 2002 AE_{98} 3 1.8 89°.52 1°.6/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 18.83	+ 8 44.3	1.995	2.770	14.8	21.3
2 1	11 14.59	+ 9 27.9	1.929	2.795	11.6	21.2
2 11	11 8.12	+10 22.4	1.885	2.820	7.9	21.0
2 21	11 0.02	+11 22.5	1.868	2.844	3.9	20.8
3 2	10 51.12	+12 21.7	1.880	2.868	1.8	20.7
3 12	10 42.43	+13 13.5	1.921	2.892	5.2	21.0
3 22	10 34.86	+13 53.3	1.991	2.915	8.9	21.2
4 1	10 29.10	+14 18.4	2.085	2.938	12.1	21.5

383765 2007 VT_{233} 3 1.8 56°.82 1°.3/29.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.68	+ 8 29.2	2.097	2.876	14.1	21.3
2 1	11 11.31	+ 9 3.1	2.023	2.892	11.0	21.1
2 11	11 5.88	+ 9 47.6	1.972	2.908	7.5	20.9
2 21	10 58.90	+10 38.2	1.947	2.924	3.7	20.7
3 2	10 51.14	+11 29.1	1.951	2.940	1.4	20.6
3 12	10 43.51	+12 14.6	1.984	2.957	4.8	20.9
3 22	10 36.83	+12 50.1	2.044	2.973	8.4	21.1
4 1	10 31.78	+13 12.6	2.130	2.990	11.6	21.3

498024 2007 GD_{4} 3 1.8 310°.03 2°.5/28.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.05	+ 6 56.0	1.663	2.462	16.3	20.7
2 1	11 8.71	+ 8 14.2	1.553	2.434	13.0	20.4
2 11	11 4.82	+ 9 55.0	1.465	2.407	9.0	20.1
2 21	10 58.72	+11 52.5	1.402	2.380	4.5	19.8
3 2	10 51.15	+13 57.1	1.366	2.353	2.8	19.6
3 12	10 43.23	+15 56.4	1.358	2.327	7.1	19.8
3 22	10 36.17	+17 39.2	1.376	2.301	12.0	20.0
4 1	10 31.06	+18 57.8	1.417	2.276	16.4	20.2

451902 2014 JZ_{75} 3 1.8 277°.30 1°.5/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.71	+ 1 19.3	1.420	2.200	19.6	21.6
2 1	11 14.39	+ 1 25.4	1.323	2.187	16.0	21.3
2 11	11 8.97	+ 1 53.6	1.245	2.174	11.6	21.0
2 21	11 0.90	+ 2 42.2	1.188	2.161	6.4	20.6
3 2	10 51.10	+ 3 46.1	1.157	2.147	1.6	20.3
3 12	10 41.02	+ 4 56.2	1.152	2.134	5.6	20.5
3 22	10 32.11	+ 6 3.0	1.172	2.121	11.1	20.8
4 1	10 25.65	+ 6 57.8	1.215	2.107	16.2	21.0

317664 2003 FJ_{131} 3 1.8 19°.60 2°.1/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 10.82	+ 6 16.5	1.538	2.339	17.3	19.7
2 1	11 9.19	+ 7 33.0	1.461	2.343	13.6	19.5
2 11	11 4.95	+ 9 9.8	1.405	2.347	9.3	19.2
2 21	10 58.64	+10 59.6	1.374	2.353	4.6	18.9
3 2	10 51.16	+12 51.9	1.370	2.358	2.4	18.8
3 12	10 43.71	+14 35.0	1.393	2.365	6.6	19.1
3 22	10 37.42	+15 59.7	1.442	2.372	11.1	19.4
4 1	10 33.20	+17 0.6	1.514	2.379	15.1	19.6

464755 2003 SA_{220} 3 1.8 70°.57 8°.5/11.5 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 23.18	−20 39.2	1.820	2.446	20.7	21.8
2 1	11 18.17	−21 0.4	1.764	2.495	18.1	21.7
2 11	11 10.62	−20 50.1	1.725	2.543	15.1	21.5
2 21	11 1.26	−20 6.6	1.705	2.590	12.0	21.5
3 2	10 51.11	−18 51.4	1.710	2.636	9.5	21.4
3 12	10 41.37	−17 11.2	1.742	2.682	8.6	21.4
3 22	10 33.07	−15 15.9	1.801	2.726	9.6	21.6
4 1	10 26.93	−13 16.6	1.886	2.768	11.8	21.8

249667 1999 VL_{102} 3 1.8 155°.18 1°.4/ 3.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.92	+ 0 48.9	1.929	2.680	16.1	21.5
2 1	11 14.20	+ 1 3.5	1.839	2.685	13.0	21.3
2 11	11 8.10	+ 1 35.4	1.770	2.690	9.3	21.1
2 21	11 0.15	+ 2 22.0	1.726	2.695	5.2	20.9
3 2	10 51.13	+ 3 18.8	1.709	2.699	1.4	20.6
3 12	10 42.11	+ 4 19.2	1.722	2.703	4.3	20.8
3 22	10 34.09	+ 5 16.6	1.763	2.706	8.5	21.1
4 1	10 27.90	+ 6 5.3	1.830	2.709	12.3	21.3

74884 1999 TM_{109} 3 1.8 286°.36 2°.6/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.78	+ 1 2.8	1.361	2.139	20.3	19.3
2 1	11 16.22	+ 0 40.8	1.264	2.125	16.8	19.0
2 11	11 10.37	+ 0 38.4	1.186	2.112	12.3	18.7
2 21	11 1.67	+ 0 55.3	1.129	2.099	7.2	18.4
3 2	10 51.10	+ 1 28.4	1.097	2.085	2.7	18.1
3 12	10 40.19	+ 2 10.8	1.090	2.072	5.9	18.2
3 22	10 30.54	+ 2 54.3	1.108	2.059	11.4	18.5
4 1	10 23.49	+ 3 30.9	1.149	2.046	16.5	18.7

264426 2000 RY_{74} 3 1.8 161°.22 1°.2/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.53	+ 1 13.6	2.470	3.206	13.3	21.6
2 1	11 13.29	+ 1 25.9	2.374	3.212	10.8	21.4
2 11	11 7.15	+ 1 51.5	2.302	3.218	7.7	21.2
2 21	10 59.56	+ 2 28.0	2.255	3.223	4.3	21.0
3 2	10 51.15	+ 3 12.2	2.239	3.228	1.2	20.8
3 12	10 42.75	+ 3 59.2	2.253	3.232	3.5	21.0
3 22	10 35.11	+ 4 44.3	2.296	3.236	7.0	21.2
4 1	10 28.91	+ 5 23.3	2.367	3.239	10.1	21.4

335596 2006 DA_{160} 3 1.8 158°.20 0°.4/ 1.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 17.47	+ 6 48.6	2.182	2.947	14.0	21.4
2 1	11 13.54	+ 7 3.3	2.090	2.950	11.1	21.2
2 11	11 7.49	+ 7 28.9	2.021	2.952	7.7	21.0
2 21	10 59.78	+ 8 2.0	1.978	2.954	3.9	20.8
3 2	10 51.15	+ 8 38.3	1.965	2.956	0.5	20.5
3 12	10 42.54	+ 9 12.5	1.981	2.957	4.3	20.8
3 22	10 34.81	+ 9 40.2	2.025	2.959	8.1	21.1
4 1	10 28.71	+ 9 58.1	2.095	2.960	11.5	21.3

142363 2002 RH_{227} 3 1.8 255°.25 0°.6/ 2.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.26	+ 3 19.9	1.975	2.733	15.5	21.7
2 1	11 14.69	+ 3 33.3	1.862	2.715	12.6	21.5
2 11	11 8.66	+ 4 2.3	1.770	2.695	9.0	21.2
2 21	11 0.56	+ 4 44.4	1.703	2.676	4.8	20.9
3 2	10 51.14	+ 5 35.3	1.664	2.655	0.6	20.5
3 12	10 41.44	+ 6 28.7	1.655	2.634	4.6	20.8
3 22	10 32.56	+ 7 18.2	1.673	2.613	9.1	21.0
4 1	10 25.47	+ 7 58.2	1.717	2.591	13.2	21.2

425863 2011 EN_{86} 3 1.8 16°.35 6°.6/24.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.95	+20 35.4	1.665	2.480	15.6	20.6
2 1	11 13.16	+21 51.4	1.596	2.483	12.4	20.4
2 11	11 7.63	+23 11.5	1.550	2.486	9.1	20.2
2 21	10 59.97	+24 26.4	1.528	2.489	6.8	20.1
3 2	10 51.16	+25 26.1	1.532	2.493	7.1	20.1
3 12	10 42.46	+26 3.1	1.563	2.498	9.8	20.3
3 22	10 35.05	+26 14.2	1.618	2.502	13.1	20.5
4 1	10 29.82	+25 59.8	1.693	2.508	16.1	20.7

354897 2006 BZ_{262} 3 1.8 34°.53 0°.7/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.80	+ 7 41.3	1.257	2.061	20.3	20.9
2 1	11 16.85	+ 7 40.9	1.188	2.069	16.2	20.6
2 11	11 10.54	+ 7 55.9	1.138	2.077	11.2	20.4
2 21	11 1.55	+ 8 21.7	1.109	2.087	5.6	20.1
3 2	10 51.13	+ 8 51.5	1.106	2.096	0.8	19.8
3 12	10 40.90	+ 9 17.3	1.128	2.107	6.3	20.2
3 22	10 32.33	+ 9 32.9	1.174	2.118	11.6	20.5
4 1	10 26.52	+ 9 34.6	1.242	2.129	16.3	20.8

458925 2011 UC_{283} 3 1.8 127°.43 3°.3/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.24	+12 19.1	1.772	2.561	15.9	21.7
2 1	11 16.21	+13 15.3	1.698	2.573	12.4	21.5
2 11	11 9.56	+14 22.0	1.646	2.584	8.5	21.3
2 21	11 0.89	+15 32.2	1.620	2.595	4.6	21.1
3 2	10 51.16	+16 37.4	1.622	2.605	3.6	21.1
3 12	10 41.55	+17 30.0	1.653	2.615	6.9	21.3
3 22	10 33.17	+18 4.9	1.711	2.624	10.8	21.5
4 1	10 26.89	+18 20.2	1.792	2.633	14.2	21.8

107703 2001 FE_{18} 3 1.8 289°.35 1°.4/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.29	+ 8 47.7	1.638	2.427	16.9	19.4
2 1	11 15.20	+ 9 3.8	1.540	2.413	13.6	19.1
2 11	11 9.26	+ 9 33.1	1.462	2.400	9.4	18.8
2 21	11 0.94	+10 11.2	1.409	2.386	4.7	18.5
3 2	10 51.15	+10 51.8	1.382	2.372	1.5	18.3
3 12	10 41.17	+11 27.4	1.383	2.358	6.0	18.5
3 22	10 32.29	+11 52.1	1.409	2.344	10.9	18.8
4 1	10 25.60	+12 1.8	1.459	2.331	15.2	19.0

222455 2001 QH_{292} 3 1.8 111°.76 1°.1/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.57	+ 1 33.2	2.137	2.882	14.9	20.9
2 1	11 14.31	+ 1 48.1	2.057	2.901	12.0	20.7
2 11	11 7.94	+ 2 17.7	1.999	2.919	8.5	20.5
2 21	10 59.97	+ 2 59.3	1.967	2.937	4.6	20.3
3 2	10 51.18	+ 3 48.5	1.964	2.954	1.1	20.1
3 12	10 42.50	+ 4 39.7	1.991	2.971	3.9	20.3
3 22	10 34.80	+ 5 27.5	2.047	2.987	7.6	20.6
4 1	10 28.77	+ 6 7.4	2.129	3.003	11.0	20.8

66887 1999 VX_{74} 3 1.8 265°.05 2°.2/ 4.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.34	− 2 28.8	2.117	2.856	15.2	20.3
2 1	11 10.54	− 2 11.7	2.007	2.843	12.5	20.1
2 11	11 5.61	− 1 35.5	1.919	2.831	9.3	19.9
2 21	10 58.94	− 0 41.7	1.855	2.818	5.6	19.6
3 2	10 51.20	+ 0 26.2	1.819	2.805	2.4	19.4
3 12	10 43.30	+ 1 42.0	1.812	2.792	4.1	19.5
3 22	10 36.15	+ 2 58.7	1.833	2.779	7.9	19.7
4 1	10 30.57	+ 4 9.4	1.881	2.766	11.6	19.9

328785 2009 UH_{150} 3 1.8 196°.42 3°.3/ 5.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.24	− 7 35.6	2.621	3.313	13.6	21.9
2 1	11 11.51	− 7 18.5	2.510	3.310	11.4	21.7
2 11	11 5.97	− 6 43.1	2.420	3.306	8.8	21.5
2 21	10 59.01	− 5 50.0	2.355	3.301	5.9	21.3
3 2	10 51.21	− 4 41.7	2.320	3.296	3.6	21.2
3 12	10 43.32	− 3 23.0	2.315	3.290	4.0	21.2
3 22	10 36.07	− 1 59.8	2.340	3.283	6.7	21.3
4 1	10 30.13	− 0 38.2	2.393	3.275	9.6	21.5

191823 2004 UX_1 3 1.8 77°.86 7°.4/ 9.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 18.79	−14 29.8	2.068	2.731	17.6	19.7
2 1	11 14.72	−15 25.3	1.988	2.751	15.3	19.5
2 11	11 8.37	−15 58.8	1.927	2.772	12.7	19.4
2 21	11 0.25	−16 7.7	1.888	2.792	10.0	19.3
3 2	10 51.18	−15 51.7	1.874	2.812	7.9	19.2
3 12	10 42.17	−15 13.8	1.886	2.833	7.5	19.2
3 22	10 34.17	−14 19.7	1.926	2.852	9.0	19.3
4 1	10 27.96	−13 16.9	1.990	2.872	11.3	19.5

503142 2015 GR_{17} 3 1.8 19°.18 1°.0/29.9 17

1 22	11 14.41	+ 7 52.3	1.906	2.690	15.1	21.3
2 1	11 11.44	+ 8 14.9	1.823	2.694	11.9	21.1
2 11	11 6.20	+ 8 49.5	1.762	2.698	8.2	20.9
2 21	10 59.18	+ 9 31.9	1.726	2.703	4.1	20.6
3 2	10 51.20	+10 16.3	1.717	2.708	1.1	20.4
3 12	10 43.26	+10 56.7	1.737	2.713	5.0	20.7
3 22	10 36.32	+11 27.9	1.784	2.719	9.0	20.9
4 1	10 31.16	+11 46.4	1.856	2.725	12.6	21.2

97149 1999 VM_{155} 3 1.8 11°.22 4°.1/27.7 18

1 22	11 18.95	+16 18.2	1.721	2.523	15.8	19.1
2 1	11 15.36	+16 47.2	1.643	2.524	12.4	18.9
2 11	11 9.07	+17 21.8	1.587	2.526	8.7	18.7
2 21	11 0.69	+17 55.6	1.555	2.528	5.1	18.5
3 2	10 51.18	+18 21.3	1.551	2.531	4.3	18.5
3 12	10 41.78	+18 33.1	1.574	2.534	7.4	18.6
3 22	10 33.64	+18 27.7	1.623	2.538	11.2	18.9
4 1	10 27.65	+18 4.6	1.695	2.542	14.7	19.1

165826 2001 RU_{117} 3 1.8 206°.79 0°.3/ 1.5 17

1 22	11 14.27	+ 5 32.4	2.512	3.271	12.5	21.3
2 1	11 10.78	+ 5 58.8	2.412	3.268	10.0	21.1
2 11	11 5.47	+ 6 36.4	2.336	3.265	6.9	20.9
2 21	10 58.75	+ 7 22.1	2.287	3.262	3.5	20.7
3 2	10 51.22	+ 8 11.7	2.268	3.259	0.3	20.4
3 12	10 43.66	+ 9 0.1	2.278	3.255	3.8	20.7
3 22	10 36.79	+ 9 42.9	2.318	3.251	7.3	20.9
4 1	10 31.26	+10 16.5	2.384	3.247	10.4	21.1

119647 2001 XS_{40} 3 1.8 53°.68 8°.0/23.8 18

1 22	11 21.35	+26 23.6	1.776	2.581	15.2	19.4
2 1	11 17.31	+27 35.2	1.711	2.585	12.4	19.3
2 11	11 10.44	+28 44.8	1.668	2.590	9.7	19.1
2 21	11 1.37	+29 42.8	1.650	2.594	8.1	19.0
3 2	10 51.17	+30 20.2	1.658	2.599	8.6	19.1
3 12	10 41.19	+30 30.9	1.692	2.604	10.8	19.2
3 22	10 32.61	+30 14.1	1.750	2.609	13.6	19.4
4 1	10 26.35	+29 32.1	1.829	2.614	16.3	19.6

162583 2000 SD_{14} 3 1.8 283°.76 7°.4/ 7.2 18

1 22	11 15.44	−10 32.3	1.602	2.320	20.1	19.9
2 1	11 13.20	−11 16.9	1.493	2.301	17.5	19.6
2 11	11 8.10	−11 37.1	1.400	2.282	14.3	19.3
2 21	11 0.50	−11 28.8	1.328	2.262	10.7	19.1
3 2	10 51.19	−10 50.5	1.279	2.243	7.9	18.8
3 12	10 41.43	− 9 45.8	1.256	2.223	7.8	18.8
3 22	10 32.61	− 8 22.4	1.258	2.204	10.8	18.9
4 1	10 25.95	− 6 51.2	1.283	2.184	14.8	19.1

523525 2017 OJ_{59} 3 1.8 167°.54 0°.8/ 2.5 17

1 22	11 17.85	+ 4 0.4	2.413	3.161	13.3	21.2
2 1	11 13.62	+ 3 57.5	2.317	3.163	10.7	21.0
2 11	11 7.44	+ 4 5.3	2.242	3.165	7.6	20.8
2 21	10 59.75	+ 4 21.7	2.195	3.166	4.0	20.6
3 2	10 51.22	+ 4 43.6	2.177	3.167	0.8	20.3
3 12	10 42.67	+ 5 7.2	2.189	3.168	3.7	20.6
3 22	10 34.90	+ 5 28.6	2.230	3.169	7.2	20.8
4 1	10 28.62	+ 5 44.4	2.298	3.170	10.4	21.0

305614 2008 YV_{170} 3 1.8 305°.27 1°.0/ 2.6 18

1 22	11 15.20	+ 2 13.8	1.474	2.256	18.8	20.9
2 1	11 12.99	+ 2 24.8	1.381	2.247	15.3	20.6
2 11	11 7.87	+ 2 56.7	1.307	2.238	11.0	20.3
2 21	11 0.29	+ 3 46.8	1.255	2.229	5.9	20.0
3 2	10 51.20	+ 4 49.6	1.229	2.220	1.1	19.6
3 12	10 41.93	+ 5 56.3	1.230	2.212	5.4	19.9
3 22	10 33.82	+ 6 57.9	1.256	2.203	10.7	20.2
4 1	10 28.02	+ 7 46.9	1.305	2.196	15.4	20.4

81147 2000 EF_{145} 3 1.8 277°.18 3°.7/ 5.3 18

1 22	11 13.32	− 5 44.0	1.813	2.549	17.5	19.4
2 1	11 10.91	− 5 37.0	1.711	2.541	14.6	19.2
2 11	11 6.09	− 5 6.4	1.628	2.532	11.2	19.0
2 21	10 59.26	− 4 12.5	1.568	2.524	7.3	18.7
3 2	10 51.22	− 2 58.4	1.534	2.516	4.0	18.5
3 12	10 43.02	− 1 31.0	1.528	2.508	4.9	18.5
3 22	10 35.72	+ 0 0.9	1.550	2.500	8.8	18.7
4 1	10 30.27	+ 1 28.2	1.596	2.491	12.8	19.0

392527 2011 QY_{60} 3 1.8 143°.32 2°.1/ 4.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 15.58	− 0 59.7	2.685	3.410	12.6	21.7
2 1	11 11.63	− 1 9.6	2.586	3.414	10.3	21.5
2 11	11 5.96	− 1 7.4	2.510	3.418	7.6	21.3
2 21	10 58.96	− 0 54.1	2.461	3.421	4.6	21.1
3 2	10 51.23	− 0 31.8	2.440	3.425	2.2	21.0
3 12	10 43.49	− 0 3.8	2.450	3.428	3.4	21.1
3 22	10 36.42	+ 0 26.0	2.489	3.431	6.3	21.2
4 1	10 30.63	+ 0 53.9	2.555	3.434	9.2	21.4

233202 2005 WN_{198} 3 1.8 227°.47 1°.1/ 2.7 18

1 22	11 20.51	+ 2 0.3	1.820	2.575	16.8	21.5
2 1	11 16.67	+ 2 11.4	1.714	2.564	13.7	21.3
2 11	11 10.15	+ 2 39.9	1.629	2.552	9.8	21.0
2 21	11 1.38	+ 3 23.9	1.568	2.539	5.4	20.7
3 2	10 51.19	+ 4 18.6	1.535	2.525	1.1	20.4
3 12	10 40.76	+ 5 17.3	1.530	2.510	4.8	20.6
3 22	10 31.28	+ 6 12.7	1.554	2.495	9.5	20.9
4 1	10 23.81	+ 6 58.6	1.603	2.479	13.8	21.1

243801 2000 SS_{135} 3 1.8 165°.76 3°.2/ 6.2 18

1 22	11 12.63	− 7 33.0	2.944	3.634	12.3	21.0
2 1	11 9.19	− 7 26.9	2.840	3.638	10.3	20.8
2 11	11 4.22	− 7 5.3	2.758	3.641	8.0	20.7
2 21	10 58.07	− 6 28.9	2.702	3.644	5.5	20.5
3 2	10 51.26	− 5 39.7	2.674	3.647	3.5	20.4
3 12	10 44.42	− 4 41.4	2.676	3.649	3.7	20.4
3 22	10 38.17	− 3 38.4	2.708	3.651	5.9	20.5
4 1	10 33.03	− 2 35.6	2.768	3.652	8.4	20.7

229624 2006 DN_{133} 3 1.8 20°.85 2°.0/29.1 18

1 22	11 15.21	+ 9 41.4	1.804	2.595	15.5	20.6
2 1	11 12.26	+10 16.8	1.721	2.597	12.2	20.4
2 11	11 6.87	+11 4.2	1.661	2.600	8.4	20.2
2 21	10 59.58	+11 58.2	1.626	2.603	4.2	19.9
3 2	10 51.23	+12 52.0	1.618	2.606	2.1	19.8
3 12	10 42.92	+13 38.5	1.639	2.610	5.8	20.0
3 22	10 35.68	+14 12.2	1.685	2.614	9.9	20.3
4 1	10 30.34	+14 30.0	1.756	2.618	13.5	20.5

37745 1996 XD_{22} 3 1.8 340°.05 2°.9/ 3.9 18

1 22	11 17.17	− 0 9.2	1.771	2.526	17.2	19.0
2 1	11 13.95	− 0 37.5	1.676	2.521	14.1	18.7
2 11	11 8.18	− 0 49.9	1.601	2.517	10.5	18.5
2 21	11 0.32	− 0 46.9	1.549	2.513	6.4	18.2
3 2	10 51.22	− 0 30.5	1.524	2.510	3.0	18.0
3 12	10 42.01	− 0 5.4	1.527	2.507	4.8	18.1
3 22	10 33.83	+ 0 22.8	1.556	2.504	8.9	18.4
4 1	10 27.61	+ 0 48.7	1.610	2.502	12.9	18.6

55204 2001 RE_{28} 3 1.8 73°.37 1°.0/ 2.9 18

1 22	11 16.28	+ 2 5.6	2.246	2.995	14.1	19.8
2 1	11 12.37	+ 2 15.7	2.171	3.017	11.3	19.7
2 11	11 6.52	+ 2 39.1	2.119	3.040	8.0	19.5
2 21	10 59.24	+ 3 13.1	2.092	3.062	4.3	19.3
3 2	10 51.24	+ 3 53.8	2.094	3.084	1.1	19.1
3 12	10 43.38	+ 4 36.3	2.126	3.106	3.7	19.3
3 22	10 36.43	+ 5 15.8	2.187	3.128	7.2	19.6
4 1	10 31.02	+ 5 48.3	2.274	3.150	10.3	19.8

291127 2005 YJ_{201} 3 1.8 120°.60 3°.7/26.4 18

1 22	11 17.19	+15 11.9	2.312	3.097	12.7	21.6
2 1	11 13.16	+16 28.1	2.242	3.114	9.9	21.5
2 11	11 7.12	+17 50.7	2.196	3.131	6.9	21.3
2 21	10 59.57	+19 13.0	2.178	3.148	4.3	21.2
3 2	10 51.24	+20 28.0	2.191	3.163	4.1	21.2
3 12	10 43.01	+21 29.4	2.233	3.179	6.5	21.4
3 22	10 35.71	+22 13.4	2.302	3.193	9.4	21.6
4 1	10 29.99	+22 38.5	2.396	3.207	12.1	21.8

519568 2012 SZ_{69} 3 1.8 121°.01 2°.6/ 4.7 17

1 22	11 15.52	− 2 53.7	2.526	3.246	13.5	21.7
2 1	11 11.68	− 2 59.3	2.434	3.256	11.1	21.6
2 11	11 6.04	− 2 50.6	2.362	3.265	8.2	21.4
2 21	10 59.02	− 2 28.7	2.317	3.274	5.2	21.2
3 2	10 51.25	− 1 55.7	2.301	3.283	2.8	21.1
3 12	10 43.50	− 1 15.8	2.314	3.291	3.7	21.2
3 22	10 36.49	− 0 33.3	2.356	3.300	6.6	21.4
4 1	10 30.84	+ 0 7.2	2.426	3.308	9.5	21.5

427842 2005 LT_{11} 3 1.8 162°.52 4°.5/ 7.8 18

1 22	11 14.96	−11 55.0	3.236	3.887	11.9	21.5
2 1	11 10.88	−12 17.3	3.131	3.893	10.3	21.4
2 11	11 5.31	−12 25.1	3.047	3.898	8.3	21.3
2 21	10 58.61	−12 17.8	2.988	3.903	6.3	21.1
3 2	10 51.26	−11 56.1	2.957	3.907	4.8	21.0
3 12	10 43.88	−11 22.3	2.956	3.911	4.6	21.0
3 22	10 37.04	−10 39.6	2.984	3.914	6.0	21.1
4 1	10 31.26	− 9 52.2	3.040	3.917	8.0	21.2

230951 2004 XJ_{82} 3 1.8 143°.86 4°.1/25.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 18.31	+19 29.3	2.834	3.613	10.8	20.9
2 1	11 13.67	+20 35.3	2.761	3.628	8.5	20.8
2 11	11 7.28	+21 43.6	2.713	3.642	6.1	20.6
2 21	10 59.60	+22 48.7	2.694	3.654	4.3	20.5
3 2	10 51.25	+23 45.1	2.706	3.667	4.4	20.6
3 12	10 42.97	+24 28.1	2.748	3.678	6.3	20.7
3 22	10 35.47	+24 55.4	2.818	3.689	8.6	20.9
4 1	10 29.32	+25 6.3	2.912	3.699	10.8	21.0

351526 2005 SY_{130} 3 1.8 136°.11 1°.0/ 2.7 18

1 22	11 20.35	+ 1 5.7	1.741	2.496	17.4	22.3
2 1	11 16.34	+ 1 30.1	1.659	2.509	14.0	22.1
2 11	11 9.71	+ 2 13.6	1.598	2.521	10.0	21.9
2 21	11 1.02	+ 3 13.1	1.561	2.532	5.4	21.6
3 2	10 51.22	+ 4 22.6	1.553	2.543	1.1	21.3
3 12	10 41.49	+ 5 34.1	1.573	2.553	4.7	21.6
3 22	10 32.95	+ 6 39.9	1.621	2.562	9.2	21.9
4 1	10 26.48	+ 7 33.9	1.694	2.571	13.2	22.2

172124 2002 GA_{171} 3 1.8 305°.43 3°.1/ 4.3 18

1 22	11 15.05	− 2 30.6	1.546	2.306	19.0	20.3
2 1	11 12.71	− 2 34.2	1.452	2.300	15.8	20.1
2 11	11 7.57	− 2 15.0	1.378	2.295	11.7	19.8
2 21	11 0.11	− 1 33.4	1.325	2.289	7.2	19.5
3 2	10 51.23	− 0 33.1	1.298	2.284	3.4	19.3
3 12	10 42.20	+ 0 38.3	1.298	2.279	5.2	19.4
3 22	10 34.29	+ 1 51.6	1.323	2.274	9.8	19.6
4 1	10 28.57	+ 2 58.2	1.372	2.270	14.3	19.9

91092 1998 FA_{135} 3 1.8 208°.71 0°.5/ 2.3 18

1 22	11 17.27	+ 3 57.5	2.203	2.958	14.2	20.4
2 1	11 13.45	+ 4 8.4	2.103	2.955	11.4	20.2
2 11	11 7.50	+ 4 32.1	2.026	2.951	8.0	19.9
2 21	10 59.87	+ 5 6.1	1.974	2.947	4.2	19.7
3 2	10 51.25	+ 5 46.3	1.952	2.943	0.5	19.4
3 12	10 42.56	+ 6 27.5	1.959	2.938	4.0	19.7
3 22	10 34.71	+ 7 4.9	1.994	2.933	7.9	19.9
4 1	10 28.44	+ 7 34.1	2.056	2.928	11.4	20.1

351552 2005 TK_{100} 3 1.8 5°.31 2°.7/ 3.6 18

1 22	11 17.92	+ 0 9.3	1.340	2.118	20.6	21.1
2 1	11 15.36	− 0 7.8	1.257	2.118	16.9	20.8
2 11	11 9.60	− 0 3.2	1.193	2.118	12.4	20.6
2 21	11 1.20	+ 0 21.9	1.149	2.118	7.3	20.3
3 2	10 51.22	+ 1 3.7	1.131	2.119	2.9	20.0
3 12	10 41.18	+ 1 54.3	1.138	2.120	5.6	20.2
3 22	10 32.53	+ 2 45.2	1.170	2.121	10.8	20.5
4 1	10 26.46	+ 3 28.3	1.224	2.122	15.6	20.7

79203 1993 UC_{6} 3 1.8 224°.80 2°.3/28.3 17

1 22	11 17.79	+11 7.9	2.317	3.091	13.0	20.8
2 1	11 13.86	+11 58.1	2.213	3.079	10.3	20.6
2 11	11 7.81	+12 58.3	2.132	3.067	7.1	20.4
2 21	11 0.04	+14 3.7	2.079	3.054	3.7	20.2
3 2	10 51.25	+15 8.0	2.056	3.041	2.6	20.1
3 12	10 42.33	+16 4.9	2.063	3.027	5.6	20.2
3 22	10 34.17	+16 49.2	2.099	3.012	9.1	20.4
4 1	10 27.56	+17 17.9	2.159	2.997	12.3	20.6

11557 1993 FO_{8} 3 1.8 50°.41 2°.6/28.4 18

1 22	11 15.78	+11 7.4	1.816	2.609	15.4	18.3
2 1	11 12.67	+11 53.5	1.737	2.615	12.1	18.1
2 11	11 7.14	+12 50.7	1.681	2.621	8.2	17.9
2 21	10 59.71	+13 52.8	1.650	2.627	4.3	17.7
3 2	10 51.26	+14 52.5	1.647	2.633	2.9	17.6
3 12	10 42.87	+15 42.4	1.672	2.639	6.3	17.8
3 22	10 35.58	+16 17.3	1.724	2.646	10.2	18.0
4 1	10 30.20	+16 34.7	1.799	2.652	13.7	18.3

456905 2007 VG_{225} 3 1.8 77°.47 1°.6/29.5 18

1 22	11 19.22	+ 7 51.7	1.556	2.345	17.7	21.8
2 1	11 15.63	+ 8 32.7	1.490	2.364	13.9	21.6
2 11	11 9.26	+ 9 28.6	1.446	2.383	9.5	21.4
2 21	11 0.78	+10 33.1	1.425	2.402	4.7	21.2
3 2	10 51.24	+11 38.0	1.432	2.422	1.8	21.0
3 12	10 41.94	+12 34.8	1.467	2.440	6.0	21.3
3 22	10 34.02	+13 17.3	1.528	2.459	10.5	21.6
4 1	10 28.37	+13 42.2	1.612	2.478	14.3	21.9

400251 2007 PS_{39} 3 1.8 226°.05 0°.1/ 1.7 17

1 22	11 17.73	+ 3 38.5	1.885	2.649	16.0	22.2
2 1	11 14.33	+ 4 16.7	1.782	2.639	12.8	21.9
2 11	11 8.44	+ 5 12.9	1.700	2.629	9.0	21.7
2 21	11 0.48	+ 6 23.6	1.643	2.617	4.6	21.4
3 2	10 51.25	+ 7 42.4	1.615	2.606	0.2	21.0
3 12	10 41.82	+ 9 1.2	1.615	2.593	5.0	21.3
3 22	10 33.31	+10 12.2	1.644	2.580	9.5	21.6
4 1	10 26.67	+11 9.3	1.698	2.566	13.6	21.8

522358 2016 CK_{299} 3 1.8 257°.46 3°.0/28.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 16.21	+11 24.3	1.865	2.656	15.1	21.3
2 1	11 13.15	+12 18.9	1.770	2.647	11.9	21.1
2 11	11 7.60	+13 25.9	1.698	2.637	8.2	20.8
2 21	11 0.04	+14 39.1	1.651	2.627	4.4	20.6
3 2	10 51.26	+15 50.6	1.632	2.617	3.3	20.5
3 12	10 42.36	+16 52.1	1.642	2.606	6.7	20.7
3 22	10 34.44	+17 37.5	1.678	2.596	10.7	20.9
4 1	10 28.41	+18 3.4	1.738	2.585	14.4	21.1

74890 1999 TW_{116} 3 1.8 268°.16 2°.5/ 4.0 18 R

1 22	11 14.72	− 2 22.9	1.721	2.474	17.7	19.8
2 1	11 12.21	− 2 10.8	1.618	2.462	14.6	19.5
2 11	11 7.13	− 1 36.2	1.534	2.450	10.8	19.3
2 21	10 59.88	− 0 40.1	1.473	2.438	6.5	19.0
3 2	10 51.27	+ 0 33.3	1.439	2.426	2.7	18.7
3 12	10 42.44	+ 1 56.5	1.432	2.414	4.8	18.8
3 22	10 34.55	+ 3 20.4	1.453	2.401	9.4	19.0
4 1	10 28.63	+ 4 36.5	1.498	2.389	13.7	19.3

236961 2007 UU_{98} 3 1.8 196°.78 0°.7/29.9 18

1 22	11 15.02	+ 7 20.0	2.725	3.485	11.7	21.6
2 1	11 11.22	+ 7 48.8	2.625	3.482	9.2	21.4
2 11	11 5.71	+ 8 27.0	2.549	3.479	6.3	21.2
2 21	10 58.87	+ 9 11.2	2.501	3.476	3.1	21.0
3 2	10 51.29	+ 9 57.6	2.482	3.472	0.8	20.8
3 12	10 43.67	+10 41.4	2.494	3.468	3.8	21.0
3 22	10 36.71	+11 18.8	2.536	3.464	7.0	21.2
4 1	10 31.00	+11 46.7	2.604	3.459	9.9	21.4

53354 1999 JG_{70} 3 1.8 187°.05 2°.5/27.6 18

1 22	11 15.16	+14 15.6	2.866	3.642	10.8	19.6
2 1	11 11.24	+15 0.0	2.774	3.642	8.4	19.4
2 11	11 5.67	+15 49.7	2.706	3.641	5.8	19.2
2 21	10 58.83	+16 40.6	2.667	3.639	3.3	19.1
3 2	10 51.30	+17 27.8	2.658	3.638	2.8	19.0
3 12	10 43.76	+18 7.0	2.680	3.636	5.0	19.2
3 22	10 36.87	+18 35.0	2.730	3.633	7.7	19.3
4 1	10 31.21	+18 50.1	2.806	3.630	10.1	19.5

50774 2000 FK_{12} 3 1.8 66°.21 8°.3/24.8 18

1 22	11 21.42	+21 14.0	1.279	2.102	18.9	18.1
2 1	11 18.19	+22 48.5	1.228	2.118	15.1	17.9
2 11	11 11.45	+24 26.8	1.197	2.133	11.2	17.7
2 21	11 2.01	+25 55.5	1.189	2.149	8.5	17.6
3 2	10 51.24	+27 1.6	1.206	2.165	8.9	17.7
3 12	10 40.86	+27 36.2	1.248	2.181	11.9	17.9
3 22	10 32.37	+27 37.4	1.312	2.197	15.5	18.1
4 1	10 26.77	+27 8.3	1.395	2.213	18.8	18.4

43098 1999 XD_{14} 3 1.8 187°.34 3°.6/ 5.7 18 R

1 22	11 17.08	− 7 4.9	2.308	3.009	15.1	20.5
2 1	11 13.24	− 6 56.2	2.203	3.009	12.6	20.4
2 11	11 7.34	− 6 27.9	2.118	3.008	9.7	20.2
2 21	10 59.80	− 5 40.4	2.058	3.006	6.5	20.0
3 2	10 51.29	− 4 36.2	2.026	3.003	3.9	19.8
3 12	10 42.69	− 3 20.6	2.024	3.000	4.4	19.8
3 22	10 34.85	− 2 0.1	2.052	2.996	7.4	20.0
4 1	10 28.54	− 0 41.5	2.107	2.991	10.6	20.2

265753 2005 VJ_{50} 3 1.8 90°.74 0°.6/ 1.3 18

1 22	11 15.77	+ 5 22.8	1.899	2.672	15.5	20.8
2 1	11 12.51	+ 5 58.9	1.818	2.682	12.3	20.6
2 11	11 6.95	+ 6 49.8	1.758	2.691	8.5	20.4
2 21	10 59.60	+ 7 51.2	1.725	2.701	4.2	20.1
3 2	10 51.29	+ 8 56.8	1.719	2.710	0.6	19.9
3 12	10 43.05	+ 9 59.2	1.742	2.719	4.8	20.2
3 22	10 35.82	+10 52.3	1.793	2.728	8.9	20.5
4 1	10 30.40	+11 31.8	1.869	2.737	12.5	20.7

25836 Harishvemuri 3 1.8 235°.88 1°.5/29.3 18

1 22	11 14.99	+ 9 0.5	2.159	2.938	13.7	19.3
2 1	11 11.70	+ 9 36.4	2.068	2.937	10.8	19.1
2 11	11 6.30	+10 23.1	2.000	2.935	7.4	18.9
2 21	10 59.27	+11 16.3	1.958	2.934	3.7	18.6
3 2	10 51.31	+12 10.2	1.944	2.933	1.7	18.5
3 12	10 43.34	+12 58.7	1.960	2.932	5.0	18.7
3 22	10 36.22	+13 37.0	2.004	2.931	8.7	18.9
4 1	10 30.69	+14 1.8	2.073	2.929	12.0	19.1

120239 2004 FP_{90} 3 1.8 283°.04 8°.8/22.0 18

1 22	11 19.03	+26 53.6	1.792	2.600	14.9	19.6
2 1	11 15.85	+28 28.2	1.708	2.584	12.3	19.4
2 11	11 9.75	+30 3.9	1.648	2.567	10.0	19.2
2 21	11 1.24	+31 29.7	1.612	2.551	8.8	19.1
3 2	10 51.28	+32 34.6	1.603	2.534	9.6	19.1
3 12	10 41.19	+33 10.6	1.618	2.517	12.0	19.2
3 22	10 32.32	+33 14.5	1.657	2.501	15.0	19.3
4 1	10 25.73	+32 47.8	1.715	2.484	17.8	19.5

420135 2011 FB_{68} 3 1.8 15°.35 3°.3/27.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 16.62	+13 35.6	1.944	2.737	14.5	21.5
2 1	11 13.25	+14 21.9	1.860	2.738	11.4	21.3
2 11	11 7.51	+15 16.6	1.799	2.738	7.9	21.1
2 21	10 59.93	+16 13.9	1.764	2.738	4.4	20.9
3 2	10 51.31	+17 6.6	1.757	2.739	3.6	20.9
3 12	10 42.72	+17 47.9	1.778	2.739	6.6	21.0
3 22	10 35.14	+18 13.4	1.826	2.739	10.2	21.3
4 1	10 29.40	+18 21.1	1.897	2.740	13.5	21.5

198472 2004 XG_{32} 3 1.8 154°.63 0°.3/ 1.5 18

1 22	11 15.88	+ 5 32.0	2.240	3.003	13.8	21.0
2 1	11 12.26	+ 6 0.1	2.149	3.007	10.9	20.8
2 11	11 6.62	+ 6 40.7	2.081	3.011	7.6	20.6
2 21	10 59.41	+ 7 30.1	2.039	3.014	3.8	20.4
3 2	10 51.33	+ 8 23.5	2.026	3.017	0.4	20.1
3 12	10 43.24	+ 9 15.1	2.043	3.020	4.2	20.4
3 22	10 36.00	+ 9 59.8	2.089	3.023	7.9	20.7
4 1	10 30.29	+10 33.9	2.160	3.025	11.2	20.9

170040 2002 VB_{36} 3 1.8 164°.98 3°.4/ 5.8 18

1 22	11 13.52	− 6 21.0	2.456	3.164	14.1	20.7
2 1	11 10.27	− 6 21.0	2.356	3.166	11.8	20.5
2 11	11 5.19	− 6 3.7	2.276	3.168	9.0	20.3
2 21	10 58.67	− 5 29.6	2.221	3.169	6.1	20.1
3 2	10 51.34	− 4 41.0	2.194	3.170	3.7	20.0
3 12	10 43.96	− 3 42.2	2.196	3.171	4.1	20.0
3 22	10 37.29	− 2 38.6	2.227	3.172	6.8	20.2
4 1	10 31.97	− 1 36.0	2.285	3.173	9.8	20.3

304789 2007 NS_{3} 3 1.8 259°.55 3°.2/ 4.2 18

1 22	11 18.00	− 2 1.0	1.662	2.413	18.3	20.9
2 1	11 15.00	− 2 12.2	1.557	2.399	15.2	20.6
2 11	11 9.20	− 2 3.2	1.471	2.385	11.4	20.3
2 21	11 1.02	− 1 33.9	1.408	2.371	7.0	20.0
3 2	10 51.30	− 0 47.0	1.370	2.356	3.4	19.8
3 12	10 41.28	+ 0 11.2	1.361	2.341	5.2	19.8
3 22	10 32.24	+ 1 13.0	1.377	2.326	9.8	20.1
4 1	10 25.32	+ 2 10.2	1.418	2.310	14.3	20.3

171864 2001 QU_{52} 3 1.8 133°.10 0°.4/ 2.3 17

1 22	11 14.46	+ 2 57.4	2.775	3.518	11.9	21.3
2 1	11 10.66	+ 3 25.9	2.686	3.530	9.5	21.1
2 11	11 5.24	+ 4 5.8	2.620	3.542	6.6	20.9
2 21	10 58.62	+ 4 54.3	2.582	3.554	3.5	20.7
3 2	10 51.35	+ 5 47.7	2.574	3.565	0.4	20.5
3 12	10 44.12	+ 6 41.3	2.597	3.576	3.2	20.8
3 22	10 37.57	+ 7 30.9	2.650	3.586	6.3	21.0
4 1	10 32.23	+ 8 13.0	2.730	3.596	9.1	21.2

130521 2000 QV_{180} 3 1.8 128°.20 4°.3/ 5.5 18

1 22	11 19.39	− 5 40.5	1.831	2.553	17.8	19.8
2 1	11 15.53	− 5 59.3	1.744	2.564	14.9	19.6
2 11	11 9.16	− 5 57.3	1.676	2.573	11.4	19.4
2 21	11 0.80	− 5 34.5	1.632	2.583	7.6	19.2
3 2	10 51.32	− 4 53.1	1.614	2.592	4.6	19.0
3 12	10 41.84	− 3 58.5	1.625	2.600	5.3	19.1
3 22	10 33.45	− 2 57.8	1.663	2.608	8.6	19.3
4 1	10 27.02	− 1 58.4	1.726	2.616	12.3	19.5

497475 2005 YH_{186} 3 1.8 29°.75 10°.1/ 8.3 18

1 22	11 25.12	−14 36.4	1.856	2.515	19.5	20.1
2 1	11 20.38	−16 37.8	1.765	2.520	17.3	20.0
2 11	11 12.78	−18 20.7	1.693	2.525	14.7	19.8
2 21	11 2.78	−19 39.2	1.642	2.531	12.2	19.6
3 2	10 51.28	−20 28.6	1.617	2.537	10.5	19.5
3 12	10 39.54	−20 47.9	1.617	2.543	10.2	19.5
3 22	10 28.86	−20 40.7	1.643	2.549	11.6	19.6
4 1	10 20.35	−20 14.0	1.693	2.556	13.9	19.8

348455 2005 RG_{34} 3 1.8 228°.77 8°.1/11.7 18

1 22	11 18.17	−23 34.3	3.174	3.731	13.5	21.0
2 1	11 13.78	−24 41.0	3.054	3.720	12.4	20.9
2 11	11 7.60	−25 31.2	2.953	3.709	11.0	20.8
2 21	10 59.94	−26 1.7	2.872	3.697	9.6	20.7
3 2	10 51.34	−26 10.5	2.817	3.685	8.5	20.6
3 12	10 42.51	−25 57.6	2.788	3.673	8.1	20.5
3 22	10 34.16	−25 25.2	2.785	3.660	8.6	20.5
4 1	10 26.98	−24 37.7	2.808	3.646	9.8	20.6

59906 1999 RR_{151} 3 1.8 268°.56 1°.5/29.6 18

1 22	11 17.30	+ 7 20.5	1.755	2.537	16.3	19.8
2 1	11 14.34	+ 7 59.0	1.647	2.517	13.0	19.6
2 11	11 8.69	+ 8 53.9	1.560	2.496	9.1	19.3
2 21	11 0.75	+10 0.6	1.498	2.475	4.6	18.9
3 2	10 51.33	+11 12.3	1.464	2.454	1.6	18.7
3 12	10 41.59	+12 20.1	1.458	2.432	6.0	18.9
3 22	10 32.77	+13 16.3	1.479	2.410	10.8	19.1
4 1	10 25.96	+13 55.4	1.523	2.387	15.1	19.3

471682 2012 TA_{194} 3 1.8 116°.84 3°.3/ 6.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 12.92	− 7 34.5	2.702	3.398	13.2	21.5
2 1	11 9.54	− 7 23.4	2.609	3.410	11.0	21.3
2 11	11 4.53	− 6 55.5	2.537	3.423	8.5	21.2
2 21	10 58.28	− 6 11.5	2.490	3.435	5.7	21.0
3 2	10 51.37	− 5 14.0	2.472	3.446	3.6	20.9
3 12	10 44.48	− 4 7.4	2.484	3.458	3.8	20.9
3 22	10 38.26	− 2 56.9	2.525	3.469	6.2	21.1
4 1	10 33.27	− 1 47.8	2.594	3.480	8.8	21.3

256891 2008 DU_{40} 3 1.8 348°.63 1°.7/ 3.4 18

1 22	11 12.65	− 0 34.6	1.590	2.361	18.2	20.7
2 1	11 10.67	− 0 15.7	1.501	2.358	14.8	20.5
2 11	11 6.07	+ 0 25.7	1.430	2.355	10.7	20.2
2 21	10 59.34	+ 1 27.4	1.383	2.353	6.1	19.9
3 2	10 51.35	+ 2 43.9	1.362	2.351	1.9	19.7
3 12	10 43.28	+ 4 6.4	1.368	2.350	4.8	19.8
3 22	10 36.29	+ 5 25.6	1.400	2.349	9.6	20.1
4 1	10 31.36	+ 6 33.5	1.455	2.348	13.9	20.4

132450 2002 HT_{1} 3 1.8 211°.75 2°.5/28.3 18 R

1 22	11 18.02	+10 0.7	2.058	2.836	14.3	21.1
2 1	11 14.33	+11 1.8	1.961	2.830	11.3	20.9
2 11	11 8.31	+12 15.8	1.886	2.822	7.8	20.7
2 21	11 0.39	+13 36.8	1.838	2.814	4.1	20.4
3 2	10 51.35	+14 57.5	1.820	2.805	2.7	20.3
3 12	10 42.18	+16 9.9	1.831	2.796	6.1	20.5
3 22	10 33.90	+17 7.6	1.870	2.785	9.9	20.7
4 1	10 27.37	+17 47.1	1.934	2.774	13.4	20.9

164117 2003 XL_{36} 3 1.8 44°.31 3°.9/ 5.1 18

1 22	11 17.33	− 3 35.2	1.967	2.698	16.4	19.4
2 1	11 13.69	− 4 8.8	1.881	2.707	13.7	19.2
2 11	11 7.77	− 4 25.6	1.815	2.717	10.3	19.0
2 21	11 0.06	− 4 25.6	1.774	2.727	6.8	18.8
3 2	10 51.36	− 4 10.4	1.759	2.737	4.1	18.7
3 12	10 42.69	− 3 43.9	1.772	2.748	4.9	18.8
3 22	10 35.00	− 3 11.3	1.813	2.759	8.0	19.0
4 1	10 29.09	− 2 38.3	1.879	2.770	11.4	19.2

82529 2001 OH_{58} 3 1.8 358°.36 3°.6/ 4.3 18

1 22	11 18.70	− 1 9.4	1.628	2.383	18.5	18.8
2 1	11 15.42	− 1 46.5	1.538	2.381	15.3	18.6
2 11	11 9.35	− 2 6.2	1.467	2.381	11.4	18.3
2 21	11 1.02	− 2 8.4	1.419	2.380	7.2	18.1
3 2	10 51.34	− 1 54.8	1.397	2.380	3.8	17.9
3 12	10 41.58	− 1 30.1	1.402	2.381	5.3	18.0
3 22	10 32.96	− 1 0.2	1.433	2.381	9.5	18.2
4 1	10 26.52	− 0 31.7	1.488	2.382	13.6	18.4

430049 2013 RS_{88} 3 1.8 151°.13 0°.2/ 1.7 17

1 22	11 19.35	+ 6 37.4	2.182	2.943	14.1	21.5
2 1	11 15.05	+ 6 44.3	2.091	2.947	11.3	21.3
2 11	11 8.58	+ 7 1.7	2.022	2.951	7.8	21.1
2 21	11 0.43	+ 7 26.6	1.980	2.955	4.0	20.9
3 2	10 51.36	+ 7 54.7	1.967	2.958	0.2	20.6
3 12	10 42.31	+ 8 21.5	1.984	2.962	4.2	20.9
3 22	10 34.17	+ 8 42.6	2.030	2.965	8.1	21.2
4 1	10 27.70	+ 8 55.1	2.101	2.967	11.4	21.4

499039 2009 DH_{57} 3 1.8 77°.02 0°.6/ 1.1 17

1 22	11 12.03	+ 4 52.1	2.320	3.087	13.2	21.3
2 1	11 9.18	+ 5 43.2	2.231	3.092	10.5	21.2
2 11	11 4.47	+ 6 48.0	2.166	3.097	7.2	21.0
2 21	10 58.33	+ 8 2.4	2.127	3.102	3.6	20.7
3 2	10 51.40	+ 9 20.7	2.117	3.108	0.7	20.5
3 12	10 44.47	+10 36.2	2.138	3.113	4.2	20.8
3 22	10 38.31	+11 43.3	2.187	3.118	7.8	21.0
4 1	10 33.55	+12 37.7	2.262	3.124	10.9	21.2

186229 2001 XF_{43} 3 1.8 84°.22 8°.0/23.4 18

1 22	11 23.86	+27 28.7	1.895	2.691	14.7	20.0
2 1	11 18.92	+28 52.3	1.849	2.717	12.0	19.8
2 11	11 11.31	+30 11.8	1.827	2.742	9.5	19.7
2 21	11 1.76	+31 17.6	1.830	2.767	8.1	19.7
3 2	10 51.35	+32 1.3	1.860	2.791	8.6	19.8
3 12	10 41.32	+32 18.4	1.917	2.815	10.5	19.9
3 22	10 32.76	+32 8.6	1.998	2.839	12.9	20.1
4 1	10 26.45	+31 34.9	2.100	2.862	15.1	20.3

278010 2006 UN_{202} 3 1.8 359°.57 7°.1/25.1 18

1 22	11 15.99	+19 47.2	1.420	2.244	17.3	19.7
2 1	11 13.78	+21 6.9	1.350	2.242	13.8	19.5
2 11	11 8.45	+22 33.0	1.302	2.241	10.1	19.3
2 21	11 0.60	+23 54.8	1.277	2.241	7.4	19.1
3 2	10 51.36	+25 0.2	1.277	2.241	7.8	19.1
3 12	10 42.21	+25 40.1	1.302	2.242	10.8	19.3
3 22	10 34.51	+25 50.4	1.349	2.243	14.5	19.5
4 1	10 29.34	+25 31.7	1.417	2.245	18.0	19.7

263618 2008 GR_{14} 3 1.8 317.°06 5.°3/26.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 14.91	+16 8.9	1.587	2.401	16.3	20.2
2 1	11 12.66	+17 19.9	1.501	2.390	12.9	19.9
2 11	11 7.59	+18 41.5	1.437	2.379	9.1	19.7
2 21	11 0.18	+20 4.7	1.398	2.369	5.9	19.5
3 2	10 51.37	+21 19.1	1.385	2.359	5.9	19.4
3 12	10 42.47	+22 15.1	1.398	2.349	9.1	19.6
3 22	10 34.75	+22 46.6	1.436	2.340	13.1	19.8
4 1	10 29.26	+22 51.9	1.494	2.331	16.8	20.0

70890 1999 VZ_{167} 3 1.8 144.°84 1.°0/29.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.33	+ 7 34.4	2.079	2.844	14.6	19.7
2 1	11 15.90	+ 8 5.8	1.995	2.855	11.6	19.5
2 11	11 9.20	+ 8 49.0	1.933	2.865	7.9	19.3
2 21	11 0.75	+ 9 39.4	1.899	2.874	3.9	19.0
3 2	10 51.37	+10 31.5	1.893	2.883	1.1	18.9
3 12	10 42.06	+11 19.0	1.918	2.892	4.8	19.1
3 22	10 33.75	+11 56.9	1.971	2.899	8.7	19.4
4 1	10 27.22	+12 22.1	2.049	2.906	12.1	19.6

467049 2016 DV_2 3 1.8 26.°46 10.°5/ 8.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.53	−12 47.9	1.312	2.035	23.6	20.4
2 1	11 15.15	−14 32.1	1.242	2.045	20.6	20.2
2 11	11 9.52	−15 49.1	1.187	2.056	17.2	20.0
2 21	11 1.22	−16 32.7	1.151	2.068	13.8	19.9
3 2	10 51.36	−16 39.5	1.137	2.082	11.1	19.8
3 12	10 41.50	−16 12.1	1.145	2.096	10.6	19.8
3 22	10 33.12	−15 18.5	1.175	2.111	12.4	19.9
4 1	10 27.40	−14 10.3	1.228	2.127	15.4	20.1

452364 2001 WM_{46} 3 1.8 113.°52 0.°7/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 22.52	+ 5 58.1	1.781	2.547	16.7	22.3
2 1	11 17.88	+ 6 30.0	1.709	2.568	13.2	22.1
2 11	11 10.67	+ 7 16.3	1.659	2.589	9.1	21.9
2 21	11 1.51	+ 8 12.3	1.634	2.610	4.5	21.6
3 2	10 51.36	+ 9 11.1	1.638	2.629	0.7	21.4
3 12	10 41.42	+10 5.6	1.672	2.648	5.1	21.8
3 22	10 32.74	+10 49.7	1.733	2.665	9.4	22.0
4 1	10 26.17	+11 19.9	1.819	2.682	13.1	22.3

128158 2003 QA_{96} 3 1.8 84.°59 0.°2/ 2.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.94	+ 3 58.2	2.069	2.833	14.7	20.6
2 1	11 11.71	+ 4 22.3	1.981	2.839	11.7	20.4
2 11	11 6.35	+ 5 0.5	1.915	2.844	8.2	20.2
2 21	10 59.33	+ 5 49.7	1.875	2.849	4.2	19.9
3 2	10 51.40	+ 6 44.8	1.863	2.854	0.2	19.6
3 12	10 43.48	+ 7 39.6	1.881	2.860	4.2	19.9
3 22	10 36.46	+ 8 28.5	1.926	2.865	8.1	20.2
4 1	10 31.08	+ 9 7.0	1.997	2.870	11.6	20.4

162518 2000 QR_{108} 3 1.8 207.°77 2.°7/28.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 21.99	+11 58.7	1.852	2.634	15.6	20.8
2 1	11 17.73	+12 33.2	1.759	2.629	12.3	20.6
2 11	11 10.80	+13 17.8	1.689	2.624	8.5	20.3
2 21	11 1.71	+14 6.7	1.644	2.619	4.5	20.1
3 2	10 51.36	+14 53.0	1.627	2.613	2.9	19.9
3 12	10 40.95	+15 29.7	1.639	2.606	6.4	20.1
3 22	10 31.63	+15 51.8	1.679	2.598	10.5	20.4
4 1	10 24.37	+15 57.1	1.742	2.590	14.3	20.6

96140 3339 T-3 3 1.9 220.°42 1.°7/29.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.61	+10 17.0	2.410	3.180	12.7	20.4
2 1	11 13.61	+10 51.9	2.308	3.172	10.0	20.2
2 11	11 7.58	+11 35.9	2.229	3.163	6.9	20.0
2 21	10 59.96	+12 24.9	2.177	3.153	3.5	19.7
3 2	10 51.39	+13 13.6	2.155	3.143	1.9	19.6
3 12	10 42.74	+13 56.7	2.164	3.132	4.9	19.8
3 22	10 34.84	+14 29.8	2.201	3.121	8.4	20.0
4 1	10 28.41	+14 50.1	2.263	3.109	11.5	20.1

33194 1998 FE_{48} 3 1.9 203.°17 1.°8/28.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 19.05	+13 11.1	2.863	3.628	11.0	19.3
2 1	11 14.30	+13 26.4	2.763	3.624	8.7	19.1
2 11	11 7.80	+13 46.3	2.688	3.620	6.0	18.9
2 21	10 59.97	+14 7.5	2.641	3.615	3.2	18.7
3 2	10 51.40	+14 26.2	2.625	3.611	2.0	18.6
3 12	10 42.82	+14 38.8	2.640	3.606	4.4	18.8
3 22	10 34.94	+14 43.0	2.685	3.600	7.3	19.0
4 1	10 28.35	+14 37.3	2.756	3.594	9.9	19.1

433463 2013 VA_5 3 1.9 216.°62 11.°3/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.77	−22 4.7	1.435	2.095	24.3	21.8
2 1	11 13.89	−22 39.0	1.339	2.090	22.0	21.6
2 11	11 8.84	−22 34.7	1.255	2.085	19.0	21.4
2 21	11 1.00	−21 44.3	1.188	2.079	15.7	21.1
3 2	10 51.37	−20 3.7	1.141	2.073	12.7	20.9
3 12	10 41.44	−17 37.0	1.118	2.065	11.3	20.8
3 22	10 32.75	−14 37.2	1.119	2.058	12.7	20.9
4 1	10 26.62	−11 23.1	1.145	2.050	15.9	21.0

458890 2011 UM_{178} 3 1.9 204.°88 1.°6/29.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 19.40	+ 7 59.7	1.934	2.708	15.3	22.5
2 1	11 15.56	+ 8 43.9	1.838	2.703	12.1	22.3
2 11	11 9.24	+ 9 41.9	1.764	2.698	8.4	22.1
2 21	11 0.91	+10 48.9	1.716	2.692	4.2	21.8
3 2	10 51.38	+11 58.1	1.696	2.685	1.8	21.6
3 12	10 41.75	+13 1.5	1.706	2.678	5.6	21.8
3 22	10 33.09	+13 52.9	1.744	2.670	9.8	22.1
4 1	10 26.31	+14 28.2	1.806	2.661	13.6	22.3

469109 2015 DB_{43} 3 1.9 88.°97 4.°0/26.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.77	+15 38.1	2.174	2.968	13.1	21.1
2 1	11 11.50	+16 48.4	2.099	2.976	10.3	20.9
2 11	11 6.15	+18 5.4	2.048	2.985	7.2	20.8
2 21	10 59.21	+19 22.5	2.024	2.993	4.5	20.6
3 2	10 51.41	+20 32.3	2.029	3.002	4.4	20.6
3 12	10 43.68	+21 28.3	2.063	3.010	6.9	20.8
3 22	10 36.86	+22 6.5	2.123	3.019	9.9	21.0
4 1	10 31.67	+22 25.4	2.207	3.027	12.7	21.2

345884 2007 RD_{46} 3 1.9 190.°63 1.°9/ 4.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.94	− 2 35.5	2.724	3.444	12.6	22.3
2 1	11 10.42	− 2 16.6	2.619	3.443	10.3	22.1
2 11	11 5.21	− 1 43.0	2.535	3.441	7.6	21.9
2 21	10 58.70	− 0 56.2	2.478	3.439	4.6	21.8
3 2	10 51.44	+ 0 0.9	2.451	3.436	2.1	21.6
3 12	10 44.13	+ 1 3.6	2.454	3.433	3.3	21.7
3 22	10 37.43	+ 2 7.0	2.487	3.430	6.3	21.8
4 1	10 31.95	+ 3 6.3	2.547	3.426	9.2	22.0

110532 2001 TU_{87} 3 1.9 317.°62 4.°3/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 24.39	+17 29.7	1.523	2.325	17.5	18.7
2 1	11 20.47	+17 32.7	1.426	2.306	14.1	18.4
2 11	11 13.22	+17 39.2	1.350	2.288	10.0	18.1
2 21	11 3.16	+17 42.6	1.297	2.270	5.9	17.8
3 2	10 51.38	+17 35.5	1.270	2.252	4.5	17.7
3 12	10 39.42	+17 12.2	1.271	2.236	8.1	17.8
3 22	10 28.84	+16 30.3	1.297	2.220	12.7	18.0
4 1	10 20.89	+15 30.5	1.345	2.204	17.0	18.3

358491 2007 RT_{94} 3 1.9 160.°42 1.°3/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.86	+ 8 9.8	2.058	2.825	14.7	22.0
2 1	11 16.40	+ 8 45.0	1.971	2.832	11.6	21.8
2 11	11 9.62	+ 9 31.9	1.907	2.839	8.0	21.6
2 21	11 1.02	+10 26.0	1.869	2.845	4.0	21.4
3 2	10 51.42	+11 21.1	1.860	2.850	1.4	21.2
3 12	10 41.85	+12 10.9	1.882	2.854	5.1	21.5
3 22	10 33.28	+12 50.1	1.932	2.858	9.0	21.7
4 1	10 26.53	+13 15.7	2.007	2.861	12.4	21.9

130898 2000 VQ_{31} 3 1.9 95.°53 4.°6/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 21.82	+15 49.0	1.605	2.405	16.8	19.7
2 1	11 17.77	+16 43.2	1.538	2.418	13.2	19.5
2 11	11 10.84	+17 44.9	1.493	2.431	9.2	19.3
2 21	11 1.69	+18 46.0	1.473	2.444	5.6	19.1
3 2	10 51.41	+19 37.2	1.480	2.457	5.0	19.1
3 12	10 41.35	+20 11.1	1.514	2.470	8.1	19.3
3 22	10 32.73	+20 24.1	1.574	2.482	11.9	19.6
4 1	10 26.46	+20 15.7	1.656	2.494	15.4	19.8

433077 2012 TY_{59} 3 1.9 133.°20 3.°2/27.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.68	+16 16.4	2.559	3.339	11.8	21.6
2 1	11 13.40	+16 54.2	2.478	3.347	9.2	21.4
2 11	11 7.25	+17 36.1	2.421	3.355	6.4	21.2
2 21	10 59.71	+18 17.1	2.392	3.362	3.9	21.1
3 2	10 51.44	+18 52.3	2.393	3.369	3.4	21.1
3 12	10 43.24	+19 17.2	2.423	3.376	5.6	21.2
3 22	10 35.87	+19 29.3	2.482	3.383	8.4	21.4
4 1	10 29.95	+19 27.4	2.565	3.389	11.0	21.6

492473 2014 NH_{33} 3 1.9 244.°27 1.°3/ 2.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.46	+ 1 3.3	1.746	2.504	17.2	22.4
2 1	11 15.23	+ 1 16.4	1.640	2.491	14.1	22.2
2 11	11 9.30	+ 1 48.8	1.554	2.477	10.2	21.9
2 21	11 1.09	+ 2 38.6	1.492	2.462	5.7	21.6
3 2	10 51.42	+ 3 41.3	1.457	2.447	1.4	21.3
3 12	10 41.48	+ 4 49.4	1.450	2.431	4.9	21.4
3 22	10 32.49	+ 5 54.7	1.471	2.415	9.7	21.7
4 1	10 25.52	+ 6 50.3	1.516	2.398	14.2	21.9

157914 1999 TR_{291} 3 1.9 167.°02 9.°8/17.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.94	−33 13.3	3.043	3.520	15.1	20.2
2 1	11 12.93	−33 57.4	2.940	3.526	14.1	20.1
2 11	11 7.04	−34 19.1	2.851	3.530	13.0	20.0
2 21	10 59.67	−34 14.8	2.780	3.535	11.7	19.9
3 2	10 51.45	−33 42.3	2.729	3.538	10.6	19.8
3 12	10 43.15	−32 42.3	2.702	3.541	9.9	19.7
3 22	10 35.55	−31 18.2	2.700	3.543	9.8	19.7
4 1	10 29.34	−29 36.1	2.722	3.545	10.5	19.8

352009 2006 UN_{332} 3 1.9 191.°63 0.°5/ 2.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 12.94	+ 2 0.6	3.045	3.782	11.0	22.6
2 1	11 9.43	+ 2 34.5	2.940	3.780	8.8	22.4
2 11	11 4.43	+ 3 19.9	2.858	3.778	6.2	22.2
2 21	10 58.28	+ 4 14.5	2.805	3.775	3.3	22.1
3 2	10 51.48	+ 5 14.8	2.782	3.772	0.5	21.8
3 12	10 44.63	+ 6 16.3	2.790	3.769	3.0	22.0
3 22	10 38.33	+ 7 14.8	2.828	3.765	6.0	22.2
4 1	10 33.09	+ 8 6.5	2.894	3.760	8.7	22.4

170988 2005 CZ_{59} 3 1.9 292.°72 2.°2/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.00	+ 9 56.2	1.561	2.357	17.3	20.1
2 1	11 15.20	+10 22.3	1.464	2.342	13.8	19.9
2 11	11 9.45	+11 2.0	1.388	2.327	9.6	19.6
2 21	11 1.22	+11 50.2	1.335	2.312	4.9	19.3
3 2	10 51.43	+12 39.3	1.309	2.298	2.3	19.1
3 12	10 41.43	+13 21.1	1.310	2.283	6.7	19.3
3 22	10 32.56	+13 48.9	1.336	2.269	11.6	19.5
4 1	10 25.99	+13 58.8	1.385	2.254	16.0	19.7

352719 2008 SU_{218} 3 1.9 77.°10 2.°8/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.16	− 1 14.1	1.424	2.187	20.3	21.1
2 1	11 16.73	− 1 22.2	1.354	2.204	16.6	20.9
2 11	11 10.28	− 1 7.8	1.302	2.221	12.1	20.6
2 21	11 1.49	− 0 32.7	1.272	2.238	7.2	20.4
3 2	10 51.44	+ 0 18.4	1.268	2.255	3.0	20.2
3 12	10 41.56	+ 1 17.4	1.291	2.272	5.2	20.4
3 22	10 33.16	+ 2 15.8	1.339	2.289	9.9	20.7
4 1	10 27.21	+ 3 5.9	1.411	2.305	14.2	21.0

193818 2001 QH 3 1.9 222.°57 1.°8/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 21.50	+ 1 6.9	1.822	2.571	17.0	20.8
2 1	11 17.47	+ 1 2.8	1.718	2.562	13.9	20.5
2 11	11 10.76	+ 1 15.4	1.634	2.553	10.1	20.3
2 21	11 1.80	+ 1 43.2	1.574	2.542	5.8	20.0
3 2	10 51.44	+ 2 22.7	1.542	2.531	1.9	19.7
3 12	10 40.85	+ 3 8.1	1.539	2.520	4.7	19.8
3 22	10 31.25	+ 3 52.8	1.564	2.507	9.3	20.1
4 1	10 23.66	+ 4 30.8	1.614	2.494	13.5	20.3

373282 2012 HO_{43} 3 1.9 221.°64 1.°5/ 3.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.66	− 0 29.6	2.276	3.014	14.3	21.6
2 1	11 12.22	− 0 10.6	2.168	3.006	11.7	21.4
2 11	11 6.73	+ 0 24.8	2.082	2.997	8.5	21.2
2 21	10 59.59	+ 1 14.7	2.022	2.989	4.9	20.9
3 2	10 51.47	+ 2 15.3	1.991	2.979	1.6	20.7
3 12	10 43.21	+ 3 21.0	1.989	2.970	3.8	20.8
3 22	10 35.69	+ 4 25.7	2.017	2.960	7.6	21.0
4 1	10 29.66	+ 5 23.7	2.071	2.949	11.1	21.2

371270 2006 DA_{46} 3 1.9 57.°51 0.°0/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.03	+ 3 52.5	1.796	2.570	16.3	21.0
2 1	11 12.02	+ 4 25.1	1.723	2.586	12.9	20.8
2 11	11 6.67	+ 5 14.0	1.671	2.602	9.0	20.6
2 21	10 59.53	+ 6 15.0	1.644	2.619	4.6	20.4
3 2	10 51.47	+ 7 21.5	1.645	2.636	0.1	20.0
3 12	10 43.53	+ 8 26.1	1.674	2.653	4.6	20.4
3 22	10 36.69	+ 9 22.2	1.730	2.670	8.8	20.7
4 1	10 31.71	+10 5.0	1.811	2.688	12.5	21.0

371745 2007 EZ_{203} 3 1.9 65.°47 3.°2/ 5.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 11.89	− 8 18.0	1.870	2.593	17.4	20.7
2 1	11 9.61	− 7 28.6	1.779	2.600	14.5	20.5
2 11	11 5.07	− 6 11.3	1.708	2.608	11.0	20.3
2 21	10 58.77	− 4 28.0	1.660	2.615	7.1	20.1
3 2	10 51.48	− 2 24.2	1.641	2.623	3.6	19.9
3 12	10 44.19	− 0 9.7	1.650	2.631	4.4	20.0
3 22	10 37.84	+ 2 4.5	1.688	2.638	8.2	20.2
4 1	10 33.23	+ 4 8.3	1.754	2.646	12.0	20.5

425057 2009 QK_{54} 3 1.9 141.°86 4.°5/ 6.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.85	− 7 35.6	2.073	2.781	16.4	21.2
2 1	11 13.30	− 7 52.1	1.979	2.786	13.8	21.0
2 11	11 7.53	− 7 48.6	1.905	2.792	10.8	20.8
2 21	11 0.00	− 7 24.9	1.854	2.797	7.5	20.6
3 2	10 51.47	− 6 42.6	1.830	2.802	4.9	20.5
3 12	10 42.89	− 5 46.5	1.834	2.807	5.2	20.5
3 22	10 35.21	− 4 42.8	1.867	2.811	7.9	20.7
4 1	10 29.21	− 3 38.4	1.925	2.815	11.2	20.9

342977 2009 BU_{39} 3 1.9 83.°19 1.°0/ 2.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.62	+ 3 18.7	2.289	3.038	13.9	20.6
2 1	11 13.57	+ 3 12.1	2.199	3.045	11.2	20.4
2 11	11 7.51	+ 3 16.9	2.131	3.052	7.9	20.2
2 21	10 59.91	+ 3 31.2	2.089	3.059	4.3	20.0
3 2	10 51.47	+ 3 52.0	2.076	3.066	1.1	19.8
3 12	10 43.06	+ 4 15.2	2.093	3.073	3.7	20.0
3 22	10 35.49	+ 4 36.7	2.139	3.080	7.3	20.2
4 1	10 29.46	+ 4 53.1	2.210	3.087	10.5	20.4

332807 2009 WT_{156} 3 1.9 202.°73 6.°8/ 9.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 16.09	−15 48.5	2.397	3.043	15.8	21.7
2 1	11 12.55	−16 20.1	2.289	3.039	13.9	21.5
2 11	11 6.96	−16 30.9	2.199	3.035	11.6	21.3
2 21	10 59.72	−16 18.5	2.131	3.031	9.2	21.2
3 2	10 51.47	−15 42.6	2.089	3.026	7.3	21.0
3 12	10 43.09	−14 45.9	2.074	3.021	6.9	21.0
3 22	10 35.41	−13 33.6	2.087	3.015	8.3	21.1
4 1	10 29.22	−12 12.7	2.126	3.009	10.6	21.2

244880 2003 UR_{285} 3 1.9 99.°76 0.°5/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.40	+ 3 12.6	2.165	2.922	14.3	21.8
2 1	11 11.96	+ 3 32.6	2.078	2.930	11.5	21.6
2 11	11 6.47	+ 4 6.4	2.013	2.938	8.1	21.4
2 21	10 59.41	+ 4 51.2	1.973	2.946	4.2	21.2
3 2	10 51.48	+ 5 42.3	1.963	2.954	0.5	20.9
3 12	10 43.59	+ 6 34.0	1.982	2.961	3.9	21.2
3 22	10 36.56	+ 7 21.1	2.029	2.969	7.7	21.5
4 1	10 31.11	+ 7 59.1	2.102	2.976	11.1	21.7

369982 1998 BL_{10} 3 1.9 117.°63 1.°6/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 28.83	+ 4 51.4	1.986	2.727	16.0	20.7
2 1	11 22.76	+ 4 7.1	1.893	2.734	13.0	20.5
2 11	11 14.07	+ 3 31.8	1.823	2.741	9.3	20.3
2 21	11 3.32	+ 3 4.6	1.779	2.747	5.2	20.1
3 2	10 51.44	+ 2 43.8	1.765	2.754	1.6	19.8
3 12	10 39.60	+ 2 26.9	1.782	2.760	4.4	20.0
3 22	10 28.93	+ 2 11.1	1.828	2.767	8.5	20.3
4 1	10 20.33	+ 1 53.8	1.901	2.773	12.2	20.5

59243 1999 CZ_4 3 1.9 64.°12 3.°3/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.97	+10 23.3	1.317	2.125	19.3	19.2
2 1	11 15.99	+11 24.1	1.258	2.144	15.1	19.0
2 11	11 9.84	+12 40.1	1.220	2.163	10.3	18.8
2 21	11 1.26	+14 2.4	1.205	2.182	5.4	18.5
3 2	10 51.46	+15 20.0	1.215	2.201	3.6	18.5
3 12	10 41.96	+16 22.4	1.252	2.220	7.7	18.8
3 22	10 34.10	+17 3.3	1.313	2.239	12.3	19.1
4 1	10 28.82	+17 20.5	1.396	2.259	16.3	19.4

348549 2005 UJ_{350} 3 1.9 151.°88 0.°6/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 23.14	+ 3 39.5	1.796	2.552	16.9	22.2
2 1	11 18.55	+ 3 48.8	1.710	2.561	13.6	22.0
2 11	11 11.31	+ 4 13.6	1.645	2.570	9.6	21.8
2 21	11 1.97	+ 4 50.7	1.605	2.578	5.1	21.5
3 2	10 51.46	+ 5 35.2	1.594	2.584	0.6	21.2
3 12	10 40.98	+ 6 20.5	1.611	2.591	4.7	21.5
3 22	10 31.69	+ 7 0.5	1.657	2.596	9.2	21.8
4 1	10 24.50	+ 7 30.5	1.728	2.601	13.2	22.0

333603 2007 GW_{34} 3 1.9 297.°30 1.°6/ 3.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 12.64	− 0 32.0	1.838	2.597	16.5	21.2
2 1	11 10.52	− 0 10.2	1.723	2.574	13.5	20.9
2 11	11 6.00	+ 0 32.7	1.628	2.550	9.9	20.6
2 21	10 59.42	+ 1 35.1	1.557	2.526	5.7	20.3
3 2	10 51.49	+ 2 52.7	1.513	2.503	1.7	20.0
3 12	10 43.25	+ 4 18.1	1.498	2.479	4.6	20.1
3 22	10 35.79	+ 5 42.4	1.509	2.456	9.2	20.4
4 1	10 30.12	+ 6 57.6	1.545	2.433	13.6	20.6

389941 2012 TJ_{150} 3 1.9 100.°14 0.°5/ 1.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.05	+ 6 58.9	2.624	3.382	12.1	22.3
2 1	11 11.98	+ 7 21.6	2.545	3.400	9.5	22.1
2 11	11 6.21	+ 7 53.2	2.489	3.418	6.5	21.9
2 21	10 59.17	+ 8 30.7	2.460	3.435	3.2	21.8
3 2	10 51.50	+ 9 9.9	2.462	3.452	0.6	21.6
3 12	10 43.92	+ 9 46.6	2.494	3.469	3.7	21.8
3 22	10 37.10	+10 17.1	2.555	3.486	6.8	22.1
4 1	10 31.62	+10 38.9	2.643	3.502	9.6	22.3

31470 Alagappan 3 1.9 303.°30 0.°8/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.18	+ 3 43.1	1.701	2.476	17.0	19.1
2 1	11 13.46	+ 3 44.2	1.599	2.462	13.8	18.9
2 11	11 8.09	+ 4 1.2	1.518	2.447	9.8	18.6
2 21	11 0.48	+ 4 31.9	1.459	2.433	5.3	18.3
3 2	10 51.48	+ 5 11.9	1.428	2.419	0.8	17.9
3 12	10 42.27	+ 5 54.8	1.424	2.405	4.9	18.2
3 22	10 34.03	+ 6 33.7	1.446	2.391	9.7	18.4
4 1	10 27.81	+ 7 3.2	1.492	2.378	14.1	18.7

388305 2006 SL_{233} 3 1.9 249.°07 0.°9/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.01	+ 8 47.2	2.413	3.179	12.8	21.0
2 1	11 13.08	+ 8 59.0	2.314	3.175	10.1	20.8
2 11	11 7.20	+ 9 19.2	2.239	3.171	7.0	20.6
2 21	10 59.78	+ 9 44.6	2.191	3.167	3.5	20.3
3 2	10 51.50	+10 11.4	2.172	3.162	0.9	20.1
3 12	10 43.19	+10 35.0	2.183	3.158	4.2	20.4
3 22	10 35.64	+10 51.9	2.223	3.153	7.7	20.6
4 1	10 29.56	+10 59.5	2.288	3.149	10.9	20.8

172360 2002 XM_{39} 3 1.9 316°.64 6°.1/24.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 17.04	+22 50.0	2.100	2.901	13.3	19.7
2 1	11 13.59	+23 52.3	2.018	2.895	10.7	19.5
2 11	11 7.79	+24 56.1	1.960	2.889	8.0	19.3
2 21	11 0.15	+25 54.1	1.928	2.882	6.2	19.2
3 2	10 51.49	+26 38.4	1.923	2.877	6.6	19.2
3 12	10 42.85	+27 3.4	1.945	2.871	8.8	19.3
3 22	10 35.20	+27 6.5	1.993	2.865	11.6	19.5
4 1	10 29.37	+26 47.7	2.063	2.860	14.3	19.7

288507 2004 FH_{101} 3 1.9 315°.69 0°.4/ 2.2 17

1 22	11 15.79	+ 4 52.0	2.213	2.974	14.0	21.1
2 1	11 12.32	+ 4 56.0	2.115	2.970	11.2	20.9
2 11	11 6.79	+ 5 11.6	2.039	2.966	7.9	20.7
2 21	10 59.62	+ 5 36.3	1.989	2.962	4.1	20.4
3 2	10 51.51	+ 6 6.3	1.967	2.958	0.4	20.1
3 12	10 43.34	+ 6 37.0	1.975	2.954	4.0	20.4
3 22	10 35.98	+ 7 4.0	2.011	2.951	7.8	20.6
4 1	10 30.18	+ 7 23.4	2.072	2.947	11.2	20.8

265705 2005 UM_{186} 3 1.9 123°.13 1°.0/29.9 18

1 22	11 17.28	+ 7 17.2	2.043	2.815	14.6	21.7
2 1	11 13.59	+ 7 51.0	1.960	2.824	11.6	21.5
2 11	11 7.67	+ 8 37.1	1.899	2.832	7.9	21.3
2 21	11 0.05	+ 9 31.0	1.864	2.840	3.9	21.1
3 2	10 51.51	+10 27.0	1.858	2.848	1.1	20.9
3 12	10 43.01	+11 18.5	1.881	2.856	4.8	21.2
3 22	10 35.48	+12 0.5	1.933	2.863	8.7	21.4
4 1	10 29.67	+12 29.3	2.009	2.870	12.1	21.6

503100 2015 FG_{314} 3 1.9 183°.79 1°.3/29.2 17

1 22	11 12.92	+ 7 59.4	2.639	3.407	11.8	21.6
2 1	11 9.70	+ 8 51.1	2.544	3.407	9.3	21.4
2 11	11 4.76	+ 9 53.1	2.473	3.407	6.3	21.2
2 21	10 58.52	+11 1.6	2.430	3.407	3.1	21.0
3 2	10 51.53	+12 11.1	2.418	3.406	1.4	20.9
3 12	10 44.51	+13 16.3	2.435	3.405	4.3	21.1
3 22	10 38.15	+14 12.3	2.482	3.404	7.4	21.3
4 1	10 33.04	+14 56.0	2.555	3.403	10.3	21.5

14910 1993 QR_{4} 3 1.9 40°.44 1°.3/29.9 18 R

1 22	11 18.03	+ 8 22.2	1.612	2.401	17.2	17.8
2 1	11 14.82	+ 8 41.8	1.533	2.407	13.6	17.6
2 11	11 8.87	+ 9 14.7	1.475	2.413	9.4	17.4
2 21	11 0.78	+ 9 55.9	1.442	2.419	4.7	17.1
3 2	10 51.50	+10 39.0	1.435	2.425	1.4	16.9
3 12	10 42.30	+11 16.6	1.456	2.432	5.7	17.2
3 22	10 34.34	+11 43.1	1.503	2.439	10.3	17.5
4 1	10 28.57	+11 55.1	1.573	2.446	14.3	17.7

461404 2001 SU_{269} 3 1.9 135°.12 1°.1/ 3.1 16

1 22	11 17.25	+ 0 35.4	2.236	2.976	14.4	22.6
2 1	11 13.32	+ 1 0.2	2.148	2.989	11.6	22.4
2 11	11 7.37	+ 1 40.5	2.083	3.001	8.3	22.3
2 21	10 59.87	+ 2 33.7	2.044	3.013	4.6	22.0
3 2	10 51.52	+ 3 35.3	2.034	3.024	1.2	21.8
3 12	10 43.21	+ 4 39.2	2.054	3.034	3.8	22.0
3 22	10 35.77	+ 5 39.8	2.103	3.044	7.4	22.3
4 1	10 29.90	+ 6 32.1	2.179	3.053	10.8	22.5

183832 2004 BZ_{98} 3 1.9 160°.06 2°.7/28.8 18

1 22	11 24.73	+14 4.5	2.015	2.791	14.7	20.6
2 1	11 19.53	+14 20.5	1.929	2.795	11.6	20.4
2 11	11 11.83	+14 42.2	1.866	2.799	8.0	20.2
2 21	11 2.19	+15 4.7	1.829	2.802	4.3	19.9
3 2	10 51.50	+15 22.5	1.821	2.806	2.9	19.8
3 12	10 40.89	+15 30.5	1.843	2.808	5.9	20.0
3 22	10 31.43	+15 26.0	1.893	2.811	9.7	20.3
4 1	10 23.96	+15 8.0	1.969	2.813	13.0	20.5

461951 2006 TT_{24} 3 1.9 35°.20 3°.3/28.9 18

1 22	11 20.56	+12 45.0	1.182	2.000	20.5	20.3
2 1	11 17.36	+13 8.2	1.136	2.026	16.0	20.1
2 11	11 10.77	+13 42.0	1.108	2.053	10.9	19.9
2 21	11 1.68	+14 18.5	1.103	2.080	5.7	19.7
3 2	10 51.50	+14 48.7	1.123	2.109	3.6	19.6
3 12	10 41.89	+15 5.1	1.168	2.139	7.6	19.9
3 22	10 34.18	+15 4.1	1.236	2.169	12.3	20.3
4 1	10 29.28	+14 45.2	1.326	2.200	16.3	20.6

234468 2001 SG_{240} 3 1.9 200°.72 2°.0/29.2 18

1 22	11 22.01	+ 9 54.9	1.888	2.663	15.5	22.4
2 1	11 17.71	+10 31.1	1.793	2.659	12.3	22.1
2 11	11 10.81	+11 19.1	1.720	2.655	8.5	21.9
2 21	11 1.78	+12 13.9	1.674	2.650	4.3	21.6
3 2	10 51.51	+13 8.4	1.656	2.644	2.2	21.5
3 12	10 41.14	+13 55.5	1.667	2.637	5.9	21.7
3 22	10 31.83	+14 29.6	1.706	2.630	10.1	21.9
4 1	10 24.52	+14 47.6	1.770	2.621	13.9	22.1

242417 2004 GY_{41} 3 1.9 245°.30 3°.0/28.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 21.70	+14 33.3	2.275	3.050	13.2	21.2
2 1	11 17.12	+15 6.1	2.166	3.032	10.5	21.0
2 11	11 10.23	+15 45.6	2.080	3.014	7.3	20.7
2 21	11 1.45	+16 26.7	2.022	2.994	4.2	20.5
3 2	10 51.51	+17 3.5	1.993	2.974	3.3	20.4
3 12	10 41.39	+17 30.4	1.994	2.953	6.1	20.5
3 22	10 32.09	+17 43.6	2.023	2.932	9.6	20.7
4 1	10 24.46	+17 41.2	2.077	2.910	12.9	20.9

497668 2006 RL_{94} 3 1.9 129°.07 2°.7/ 5.2 17

1 22	11 13.08	− 4 53.4	2.656	3.368	13.1	21.7
2 1	11 9.77	− 4 44.7	2.559	3.375	10.8	21.6
2 11	11 4.78	− 4 20.3	2.485	3.381	8.1	21.4
2 21	10 58.52	− 3 41.5	2.435	3.388	5.3	21.2
3 2	10 51.55	− 2 50.8	2.414	3.395	2.9	21.1
3 12	10 44.58	− 1 52.4	2.423	3.401	3.6	21.1
3 22	10 38.26	− 0 51.4	2.462	3.407	6.3	21.3
4 1	10 33.19	+ 0 7.3	2.528	3.413	9.1	21.5

224540 2005 WX_{120} 3 1.9 132°.36 1°.4/29.4 18

1 22	11 18.22	+ 8 45.8	2.315	3.081	13.3	21.3
2 1	11 14.00	+ 9 26.5	2.233	3.095	10.4	21.2
2 11	11 7.78	+10 17.1	2.176	3.108	7.1	21.0
2 21	11 0.06	+11 13.2	2.145	3.121	3.5	20.8
3 2	10 51.54	+12 9.2	2.145	3.133	1.6	20.6
3 12	10 43.10	+12 59.6	2.175	3.145	4.7	20.9
3 22	10 35.55	+13 39.8	2.233	3.156	8.1	21.1
4 1	10 29.55	+14 7.1	2.317	3.167	11.2	21.3

299001 2004 XH_{80} 3 1.9 55°.76 3°.0/28.7 18

1 22	11 18.92	+10 42.7	1.370	2.176	18.8	20.0
2 1	11 15.90	+11 26.6	1.306	2.190	14.8	19.8
2 11	11 9.79	+12 24.2	1.262	2.204	10.1	19.6
2 21	11 1.27	+13 28.0	1.242	2.219	5.2	19.3
3 2	10 51.53	+14 28.4	1.248	2.235	3.2	19.2
3 12	10 42.02	+15 16.1	1.280	2.250	7.3	19.5
3 22	10 34.07	+15 45.4	1.337	2.266	11.9	19.8
4 1	10 28.65	+15 53.9	1.415	2.281	15.9	20.1

244543 2002 UG_{72} 3 1.9 33°.81 1°.6/ 3.3 18

1 22	11 14.09	+ 0 57.7	1.791	2.556	16.6	20.3
2 1	11 11.33	+ 1 2.3	1.716	2.570	13.4	20.1
2 11	11 6.24	+ 1 24.0	1.660	2.584	9.6	19.9
2 21	10 59.36	+ 2 0.4	1.629	2.599	5.4	19.7
3 2	10 51.55	+ 2 47.0	1.625	2.614	1.7	19.5
3 12	10 43.85	+ 3 37.3	1.649	2.630	4.2	19.7
3 22	10 37.20	+ 4 25.1	1.699	2.647	8.3	19.9
4 1	10 32.39	+ 5 4.9	1.775	2.664	12.0	20.2

263734 2008 HD_{69} 3 1.9 148°.59 6°.5/24.3 18

1 22	11 20.58	+23 21.4	2.049	2.845	13.8	20.8
2 1	11 16.37	+24 37.5	1.978	2.851	11.0	20.6
2 11	11 9.70	+25 54.6	1.931	2.856	8.4	20.5
2 21	11 1.13	+27 4.4	1.911	2.862	6.6	20.4
3 2	10 51.54	+27 58.6	1.918	2.866	7.0	20.4
3 12	10 42.07	+28 31.0	1.953	2.871	9.2	20.6
3 22	10 33.72	+28 39.6	2.013	2.875	11.9	20.7
4 1	10 27.34	+28 25.0	2.096	2.879	14.5	20.9

109193 2001 QL_{74} 3 1.9 154°.85 2°.6/28.5 18

1 22	11 21.92	+13 32.6	2.170	2.945	13.8	19.4
2 1	11 17.12	+14 0.4	2.085	2.952	10.8	19.2
2 11	11 10.07	+14 34.6	2.024	2.957	7.5	19.0
2 21	11 1.27	+15 10.3	1.989	2.963	4.1	18.8
3 2	10 51.54	+15 41.9	1.984	2.968	2.8	18.7
3 12	10 41.89	+16 4.2	2.008	2.972	5.7	18.9
3 22	10 33.24	+16 14.0	2.061	2.976	9.2	19.2
4 1	10 26.38	+16 9.8	2.139	2.980	12.3	19.4

433864 2015 BS_{293} 3 1.9 107°.45 3°.6/ 5.8 17

1 22	11 13.19	− 7 10.4	2.118	2.833	15.8	20.9
2 1	11 10.37	− 6 55.7	2.023	2.838	13.3	20.7
2 11	11 5.49	− 6 19.5	1.948	2.843	10.1	20.5
2 21	10 58.99	− 5 22.5	1.898	2.848	6.7	20.3
3 2	10 51.57	− 4 8.1	1.875	2.853	3.9	20.1
3 12	10 44.13	− 2 42.4	1.880	2.858	4.4	20.1
3 22	10 37.51	− 1 13.0	1.914	2.862	7.5	20.3
4 1	10 32.46	+ 0 12.7	1.975	2.867	10.9	20.5

380497 2004 CB_{119} 3 1.9 58°.07 1°.0/29.9 18

1 22	11 15.23	+ 7 13.9	2.003	2.780	14.7	21.5
2 1	11 11.93	+ 7 48.1	1.930	2.797	11.6	21.3
2 11	11 6.49	+ 8 34.4	1.880	2.815	7.9	21.1
2 21	10 59.44	+ 9 28.2	1.856	2.832	3.9	20.9
3 2	10 51.57	+10 23.6	1.859	2.850	1.1	20.7
3 12	10 43.82	+11 14.2	1.892	2.867	4.7	21.0
3 22	10 37.07	+11 55.1	1.953	2.885	8.5	21.2
4 1	10 32.01	+12 22.9	2.038	2.903	11.8	21.5

410049 2007 AL_{12} 3 1.9 119°.31 6°.7/23.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 21.06	+24 2.7	2.078	2.873	13.6	21.0
2 1	11 16.63	+25 30.2	2.018	2.889	10.9	20.8
2 11	11 9.79	+26 57.7	1.982	2.905	8.4	20.7
2 21	11 1.13	+28 16.4	1.973	2.920	6.8	20.6
3 2	10 51.55	+29 18.0	1.993	2.935	7.3	20.7
3 12	10 42.15	+29 56.7	2.040	2.949	9.4	20.8
3 22	10 33.92	+30 10.7	2.112	2.963	11.9	21.0
4 1	10 27.65	+30 1.1	2.205	2.976	14.3	21.2

268473 2005 XK_{51} 3 1.9 82°.78 0°.0/ 1.9 18

1 22	11 18.46	+ 5 31.5	1.913	2.681	15.6	21.0
2 1	11 14.65	+ 5 42.0	1.833	2.692	12.4	20.8
2 11	11 8.48	+ 6 5.5	1.773	2.703	8.7	20.6
2 21	11 0.50	+ 6 38.5	1.740	2.714	4.4	20.4
3 2	10 51.56	+ 7 16.1	1.734	2.725	0.1	20.0
3 12	10 42.70	+ 7 52.7	1.757	2.736	4.5	20.4
3 22	10 34.90	+ 8 23.0	1.808	2.746	8.6	20.7
4 1	10 28.96	+ 8 43.4	1.883	2.757	12.2	20.9

374065 2004 RF_{35} 3 1.9 135°.41 1°.4/29.6 16

1 22	11 21.49	+10 26.6	2.355	3.118	13.2	21.3
2 1	11 16.52	+10 43.7	2.271	3.130	10.4	21.1
2 11	11 9.50	+11 8.3	2.211	3.142	7.1	20.9
2 21	11 0.94	+11 36.5	2.178	3.153	3.6	20.7
3 2	10 51.57	+12 3.7	2.175	3.164	1.5	20.6
3 12	10 42.30	+12 25.7	2.203	3.174	4.6	20.8
3 22	10 33.95	+12 39.0	2.260	3.183	8.0	21.0
4 1	10 27.22	+12 41.8	2.343	3.192	11.0	21.3

432459 2010 CZ_{136} 3 1.9 235°.56 5°.3/23.9 17

1 22	11 16.09	+23 17.0	2.667	3.458	11.1	21.3
2 1	11 12.36	+24 27.0	2.578	3.448	8.9	21.1
2 11	11 6.72	+25 38.4	2.514	3.438	6.8	21.0
2 21	10 59.58	+26 45.0	2.478	3.428	5.4	20.9
3 2	10 51.59	+27 40.4	2.471	3.417	5.8	20.9
3 12	10 43.54	+28 19.5	2.493	3.407	7.7	21.0
3 22	10 36.22	+28 39.8	2.541	3.396	10.0	21.1
4 1	10 30.31	+28 40.7	2.612	3.384	12.2	21.3

54627 2000 SN_{72} 3 1.9 239°.76 2°.5/28.7 18

1 22	11 17.93	+ 9 24.0	1.764	2.551	16.0	19.9
2 1	11 14.78	+10 17.8	1.667	2.540	12.7	19.7
2 11	11 8.97	+11 26.8	1.592	2.529	8.8	19.4
2 21	11 0.95	+12 44.9	1.541	2.518	4.5	19.1
3 2	10 51.57	+14 4.0	1.519	2.506	2.7	19.0
3 12	10 42.02	+15 14.9	1.525	2.494	6.5	19.2
3 22	10 33.48	+16 10.4	1.558	2.481	11.0	19.4
4 1	10 26.95	+16 46.0	1.614	2.468	15.0	19.6

203842 2002 VJ_{55} 3 1.9 117°.80 3°.6/26.6 18

1 22	11 15.04	+15 21.1	2.398	3.186	12.3	20.3
2 1	11 11.54	+16 27.1	2.320	3.195	9.6	20.2
2 11	11 6.12	+17 39.3	2.268	3.204	6.6	20.0
2 21	10 59.26	+18 51.7	2.243	3.213	4.1	19.9
3 2	10 51.61	+19 57.8	2.247	3.221	3.9	19.9
3 12	10 44.02	+20 51.9	2.281	3.230	6.2	20.0
3 22	10 37.25	+21 30.1	2.342	3.238	9.1	20.2
4 1	10 31.94	+21 51.0	2.428	3.246	11.7	20.4

154003 2002 AL_{197} 3 1.9 118°.49 0°.1/ 2.0 18

1 22	11 17.51	+ 4 26.9	2.034	2.795	15.0	20.8
2 1	11 13.79	+ 4 46.7	1.948	2.804	12.0	20.6
2 11	11 7.85	+ 5 20.2	1.885	2.813	8.4	20.4
2 21	11 0.20	+ 6 4.2	1.847	2.821	4.3	20.2
3 2	10 51.60	+ 6 53.5	1.838	2.829	0.1	19.8
3 12	10 43.05	+ 7 42.2	1.858	2.837	4.3	20.2
3 22	10 35.46	+ 8 24.8	1.906	2.844	8.3	20.4
4 1	10 29.59	+ 8 57.3	1.980	2.851	11.8	20.7

384160 2009 AS_{33} 3 1.9 72°.34 3°.0/ 4.5 17

1 22	11 19.52	− 1 31.3	2.225	2.952	14.9	20.9
2 1	11 15.14	− 2 2.4	2.138	2.964	12.2	20.7
2 11	11 8.65	− 2 19.8	2.072	2.977	9.1	20.6
2 21	11 0.56	− 2 24.1	2.032	2.989	5.7	20.4
3 2	10 51.60	− 2 16.8	2.020	3.002	3.1	20.2
3 12	10 42.69	− 2 1.3	2.038	3.015	4.2	20.3
3 22	10 34.68	− 1 41.7	2.084	3.027	7.3	20.5
4 1	10 28.29	− 1 22.2	2.156	3.040	10.5	20.7

341463 2007 TK_{315} 3 1.9 101°.94 0°.7/ 2.6 17

1 22	11 14.58	+ 2 37.2	2.345	3.097	13.5	21.8
2 1	11 11.18	+ 2 55.7	2.255	3.104	10.9	21.6
2 11	11 5.89	+ 3 27.3	2.188	3.111	7.7	21.4
2 21	10 59.15	+ 4 9.4	2.146	3.118	4.1	21.2
3 2	10 51.62	+ 4 58.0	2.134	3.124	0.7	20.9
3 12	10 44.10	+ 5 48.0	2.151	3.131	3.6	21.2
3 22	10 37.37	+ 6 34.4	2.197	3.138	7.2	21.4
4 1	10 32.06	+ 7 13.0	2.269	3.144	10.4	21.6

117498 2005 CJ_{21} 3 1.9 327°.24 1°.3/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 18.84	+ 9 42.0	1.351	2.156	19.1	18.9
2 1	11 16.34	+ 9 36.5	1.260	2.142	15.4	18.6
2 11	11 10.54	+ 9 43.1	1.188	2.129	10.8	18.3
2 21	11 1.94	+ 9 57.6	1.139	2.116	5.5	18.0
3 2	10 51.59	+10 13.9	1.114	2.105	1.4	17.6
3 12	10 41.03	+10 24.7	1.115	2.094	6.5	17.9
3 22	10 31.84	+10 24.7	1.141	2.083	12.0	18.2
4 1	10 25.28	+10 10.4	1.188	2.074	16.9	18.5

205897 2002 GK_{59} 3 1.9 323°.05 1°.0/ 2.6 18

1 22	11 13.80	+ 2 35.2	1.372	2.164	19.5	19.9
2 1	11 12.22	+ 2 41.8	1.279	2.151	15.9	19.7
2 11	11 7.62	+ 3 9.7	1.205	2.139	11.4	19.4
2 21	11 0.43	+ 3 56.6	1.153	2.127	6.2	19.0
3 2	10 51.61	+ 4 56.9	1.125	2.116	1.1	18.6
3 12	10 42.55	+ 6 1.5	1.123	2.105	5.6	18.9
3 22	10 34.70	+ 7 0.9	1.145	2.095	11.1	19.2
4 1	10 29.25	+ 7 47.3	1.190	2.086	16.1	19.4

164777 1999 CD_{142} 3 1.9 285°.70 0°.4/ 2.3 17

1 22	11 15.10	+ 4 6.1	2.217	2.977	14.0	20.5
2 1	11 11.81	+ 4 18.6	2.118	2.973	11.2	20.3
2 11	11 6.48	+ 4 43.7	2.042	2.968	7.9	20.1
2 21	10 59.52	+ 5 19.0	1.991	2.964	4.2	19.8
3 2	10 51.63	+ 6 0.4	1.968	2.959	0.4	19.5
3 12	10 43.67	+ 6 42.6	1.975	2.955	3.9	19.8
3 22	10 36.50	+ 7 20.8	2.010	2.950	7.8	20.0
4 1	10 30.85	+ 7 50.8	2.071	2.946	11.2	20.2

190069 2004 RU_{332} 3 1.9 174°.86 5°.0/24.8 18

1 22	11 17.57	+20 7.1	2.465	3.253	11.9	20.5
2 1	11 13.60	+21 26.8	2.384	3.256	9.4	20.4
2 11	11 7.61	+22 50.1	2.329	3.258	6.9	20.2
2 21	11 0.05	+24 10.2	2.302	3.260	5.1	20.1
3 2	10 51.63	+25 19.9	2.304	3.261	5.4	20.1
3 12	10 43.20	+26 13.4	2.336	3.261	7.5	20.3
3 22	10 35.60	+26 47.5	2.394	3.261	10.1	20.4
4 1	10 29.53	+27 1.3	2.476	3.261	12.5	20.6

160755 2000 SE_{94} 3 1.9 217°.46 2°.6/ 3.8 18

1 22	11 21.07	− 0 6.7	1.768	2.516	17.5	20.5
2 1	11 17.19	− 0 24.9	1.670	2.511	14.4	20.2
2 11	11 10.61	− 0 26.2	1.591	2.506	10.6	20.0
2 21	11 1.80	− 0 11.5	1.536	2.501	6.3	19.7
3 2	10 51.62	+ 0 16.6	1.508	2.495	2.8	19.5
3 12	10 41.27	+ 0 52.8	1.509	2.489	4.8	19.6
3 22	10 31.97	+ 1 31.0	1.537	2.482	9.2	19.8
4 1	10 24.73	+ 2 5.1	1.589	2.476	13.4	20.1

290222 2005 SY_{53} 3 1.9 43°.15 2°.0/ 3.7 18

1 22	11 14.02	− 1 10.5	1.591	2.357	18.4	20.7
2 1	11 11.63	− 0 54.4	1.516	2.370	14.9	20.5
2 11	11 6.66	− 0 16.1	1.461	2.383	10.8	20.3
2 21	10 59.69	+ 0 41.5	1.429	2.397	6.2	20.1
3 2	10 51.64	+ 1 52.8	1.423	2.411	2.2	19.8
3 12	10 43.68	+ 3 9.3	1.444	2.426	4.6	20.0
3 22	10 36.91	+ 4 22.4	1.492	2.441	9.1	20.3
4 1	10 32.18	+ 5 24.8	1.563	2.457	13.1	20.6

503600 2016 GY_{87} 3 1.9 312°.73 2°.5/28.9 17

1 22	11 15.41	+10 32.1	1.645	2.444	16.5	21.0
2 1	11 12.98	+11 8.2	1.549	2.430	13.1	20.7
2 11	11 7.84	+11 57.5	1.475	2.416	9.1	20.5
2 21	11 0.43	+12 54.4	1.425	2.402	4.7	20.2
3 2	10 51.63	+13 51.4	1.402	2.389	2.8	20.0
3 12	10 42.67	+14 40.0	1.406	2.377	6.7	20.2
3 22	10 34.77	+15 13.7	1.435	2.364	11.2	20.4
4 1	10 28.97	+15 28.7	1.487	2.353	15.4	20.7

499877 2011 FY_{30} 3 1.9 298°.23 7°.4/24.1 17

1 22	11 20.90	+25 44.3	1.916	2.717	14.4	21.0
2 1	11 17.05	+26 45.5	1.831	2.704	11.8	20.8
2 11	11 10.46	+27 46.1	1.769	2.692	9.2	20.6
2 21	11 1.68	+28 37.6	1.732	2.679	7.6	20.5
3 2	10 51.63	+29 11.2	1.721	2.666	8.0	20.5
3 12	10 41.57	+29 20.8	1.737	2.654	10.2	20.6
3 22	10 32.69	+29 4.2	1.778	2.642	13.1	20.7
4 1	10 25.95	+28 22.8	1.839	2.630	16.0	20.9

268510 2005 YK_{150} 3 1.9 300°.71 2°.0/29.1 17

1 22	11 16.59	+10 9.9	1.936	2.721	14.9	20.8
2 1	11 13.31	+10 45.7	1.848	2.720	11.7	20.6
2 11	11 7.69	+11 32.5	1.781	2.719	8.0	20.4
2 21	11 0.20	+12 25.3	1.741	2.717	4.1	20.1
3 2	10 51.65	+13 17.6	1.729	2.716	2.2	20.0
3 12	10 43.09	+14 2.7	1.745	2.715	5.7	20.2
3 22	10 35.50	+14 35.5	1.788	2.714	9.6	20.5
4 1	10 29.72	+14 52.9	1.856	2.713	13.1	20.7

506365 2017 QX_{19} 3 1.9 95°.08 0°.5/ 2.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 13.73	+ 1 55.3	2.427	3.176	13.2	22.0
2 1	11 10.40	+ 2 29.8	2.344	3.191	10.6	21.8
2 11	11 5.29	+ 3 18.2	2.283	3.205	7.4	21.7
2 21	10 58.83	+ 4 17.3	2.248	3.220	3.9	21.5
3 2	10 51.67	+ 5 22.6	2.243	3.234	0.6	21.2
3 12	10 44.55	+ 6 28.3	2.269	3.248	3.5	21.5
3 22	10 38.21	+ 7 29.2	2.323	3.262	6.9	21.7
4 1	10 33.23	+ 8 20.9	2.404	3.276	10.0	21.9

512239 2015 XT_{104} 3 1.9 57°.65 3°.3/ 4.5 18

1 22	11 15.64	− 3 32.0	1.438	2.200	20.2	22.0
2 1	11 13.34	− 3 27.5	1.358	2.205	16.7	21.8
2 11	11 8.13	− 2 57.1	1.295	2.211	12.4	21.5
2 21	11 0.57	− 2 1.8	1.253	2.217	7.6	21.3
3 2	10 51.65	− 0 46.6	1.237	2.223	3.6	21.0
3 12	10 42.71	+ 0 39.4	1.248	2.229	5.3	21.2
3 22	10 35.06	+ 2 5.7	1.283	2.236	10.0	21.4
4 1	10 29.72	+ 3 22.8	1.343	2.242	14.4	21.7

426607 2013 SD_{43} 3 1.9 122°.81 4°.0/27.0 18

1 22	11 17.50	+15 45.7	2.021	2.814	14.0	21.1
2 1	11 13.91	+16 40.9	1.941	2.818	11.0	20.9
2 11	11 8.01	+17 42.9	1.885	2.821	7.7	20.7
2 21	11 0.32	+18 45.1	1.854	2.825	4.7	20.5
3 2	10 51.65	+19 40.0	1.852	2.828	4.3	20.5
3 12	10 43.03	+20 21.3	1.879	2.832	7.0	20.6
3 22	10 35.42	+20 45.0	1.932	2.835	10.3	20.9
4 1	10 29.61	+20 49.8	2.009	2.838	13.4	21.1

377720 2005 WD_{129} 3 1.9 261°.92 5°.5/25.6 17

1 22	11 18.75	+19 34.7	1.997	2.794	14.0	21.2
2 1	11 15.19	+20 39.5	1.903	2.780	11.2	21.0
2 11	11 9.12	+21 49.7	1.833	2.766	8.2	20.8
2 21	11 1.00	+22 57.7	1.789	2.751	5.8	20.6
3 2	10 51.65	+23 55.1	1.772	2.737	6.0	20.6
3 12	10 42.18	+24 34.5	1.784	2.722	8.6	20.7
3 22	10 33.69	+24 51.9	1.821	2.706	11.8	20.9
4 1	10 27.10	+24 46.6	1.881	2.691	14.9	21.1

76821 2000 SY_{8} 3 1.9 93°.85 4°.6/26.6 18

1 22	11 15.42	+ 3 28.0	1.103	1.913	22.2	18.7
2 1	11 14.00	+ 6 28.7	1.038	1.926	17.3	18.4
2 11	11 9.05	+10 8.3	0.993	1.939	11.6	18.1
2 21	11 1.19	+14 10.0	0.974	1.952	6.0	17.9
3 2	10 51.65	+18 8.5	0.982	1.965	5.5	17.9
3 12	10 42.17	+21 37.8	1.019	1.977	10.6	18.2
3 22	10 34.40	+24 21.3	1.080	1.989	16.0	18.5
4 1	10 29.54	+26 13.7	1.161	2.001	20.5	18.8

100141 1993 TH_{5} 3 1.9 97°.91 2°.0/ 3.6 18

1 22	11 17.71	+ 0 7.8	1.855	2.606	16.6	20.4
2 1	11 14.22	+ 0 7.2	1.768	2.613	13.5	20.2
2 11	11 8.32	+ 0 23.7	1.702	2.620	9.8	20.0
2 21	11 0.52	+ 0 55.6	1.660	2.627	5.7	19.8
3 2	10 51.66	+ 1 38.9	1.646	2.634	2.1	19.5
3 12	10 42.81	+ 2 27.8	1.660	2.641	4.3	19.7
3 22	10 34.99	+ 3 15.9	1.702	2.648	8.5	20.0
4 1	10 29.05	+ 3 57.3	1.769	2.654	12.2	20.2

150823 2001 SZ_{2} 3 1.9 57°.33 1°.9/ 3.8 18

1 22	11 14.22	− 2 27.2	1.631	2.389	18.3	19.8
2 1	11 11.66	− 1 52.7	1.560	2.408	14.9	19.6
2 11	11 6.61	− 0 54.6	1.508	2.428	10.7	19.4
2 21	10 59.64	+ 0 23.9	1.480	2.448	6.2	19.2
3 2	10 51.67	+ 1 56.0	1.479	2.468	2.1	19.0
3 12	10 43.85	+ 3 32.2	1.506	2.488	4.5	19.2
3 22	10 37.20	+ 5 3.1	1.560	2.509	8.9	19.5
4 1	10 32.55	+ 6 21.1	1.639	2.529	12.8	19.7

387172 2012 TE_{257} 3 1.9 15°.33 6°.8/22.9 17

1 22	11 16.31	+25 39.1	2.248	3.049	12.6	21.2
2 1	11 12.90	+27 0.3	2.177	3.049	10.2	21.1
2 11	11 7.27	+28 21.1	2.129	3.049	8.0	20.9
2 21	10 59.94	+29 33.5	2.108	3.050	6.8	20.9
3 2	10 51.67	+30 30.1	2.115	3.050	7.4	20.9
3 12	10 43.45	+31 5.2	2.148	3.051	9.3	21.0
3 22	10 36.19	+31 16.8	2.207	3.052	11.7	21.2
4 1	10 30.64	+31 5.3	2.286	3.052	14.0	21.3

276818 2004 PU_{69} 3 1.9 209°.32 1°.2/29.9 17

1 22	11 21.56	+ 9 56.0	2.227	2.992	13.8	21.1
2 1	11 16.90	+10 4.9	2.128	2.988	10.9	20.9
2 11	11 10.01	+10 21.8	2.052	2.983	7.6	20.7
2 21	11 1.34	+10 43.3	2.003	2.978	3.8	20.4
3 2	10 51.66	+11 4.9	1.983	2.973	1.3	20.2
3 12	10 41.93	+11 22.1	1.994	2.967	4.7	20.5
3 22	10 33.09	+11 31.2	2.033	2.961	8.5	20.7
4 1	10 25.94	+11 29.9	2.099	2.955	11.9	20.9

87944 2000 SZ_{357} 3 1.9 145°.26 3°.2/26.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 13.43	+15 2.2	2.818	3.600	10.8	19.7
2 1	11 10.01	+16 16.9	2.735	3.607	8.4	19.6
2 11	11 4.96	+17 37.5	2.679	3.614	5.8	19.4
2 21	10 58.66	+18 58.7	2.651	3.620	3.6	19.3
3 2	10 51.69	+20 14.7	2.654	3.627	3.5	19.3
3 12	10 44.71	+21 20.1	2.688	3.633	5.6	19.4
3 22	10 38.39	+22 11.2	2.749	3.638	8.2	19.6
4 1	10 33.29	+22 46.2	2.836	3.644	10.5	19.7

277006 2004 XP_{117} 3 1.9 23°.60 8°.7/21.8 18

1 22	11 16.26	+26 55.0	1.788	2.601	14.8	20.1
2 1	11 13.48	+28 38.9	1.727	2.605	12.1	19.9
2 11	11 8.00	+30 21.6	1.689	2.609	9.8	19.8
2 21	11 0.40	+31 52.3	1.677	2.614	8.7	19.7
3 2	10 51.67	+33 0.9	1.690	2.618	9.5	19.8
3 12	10 43.05	+33 40.5	1.729	2.624	11.6	19.9
3 22	10 35.69	+33 49.2	1.790	2.629	14.2	20.1
4 1	10 30.49	+33 29.1	1.871	2.635	16.7	20.3

498427 2008 AM_{52} 3 1.9 123°.23 0°.7/ 2.8 17

1 22	11 15.30	+ 2 11.4	2.736	3.474	12.1	22.6
2 1	11 11.40	+ 2 31.9	2.648	3.489	9.7	22.5
2 11	11 5.86	+ 3 3.9	2.584	3.503	6.8	22.3
2 21	10 59.10	+ 3 45.1	2.547	3.517	3.7	22.1
3 2	10 51.69	+ 4 31.8	2.540	3.530	0.8	21.9
3 12	10 44.33	+ 5 19.8	2.564	3.543	3.2	22.1
3 22	10 37.66	+ 6 4.8	2.617	3.556	6.3	22.3
4 1	10 32.24	+ 6 43.3	2.698	3.568	9.1	22.5

416648 2004 TY_{99} 3 1.9 66°.83 2°.8/28.4 18

1 22	11 18.58	+12 38.5	1.852	2.642	15.2	21.5
2 1	11 14.82	+13 16.2	1.781	2.656	11.9	21.3
2 11	11 8.64	+14 2.4	1.733	2.671	8.2	21.1
2 21	11 0.63	+14 51.1	1.711	2.686	4.4	20.9
3 2	10 51.68	+15 35.5	1.717	2.701	3.1	20.8
3 12	10 42.90	+16 9.4	1.751	2.716	6.2	21.1
3 22	10 35.29	+16 28.8	1.811	2.731	9.9	21.3
4 1	10 29.61	+16 31.9	1.896	2.746	13.2	21.6

353316 2010 KN_{17} 3 1.9 238°.20 1°.8/ 4.3 16

1 22	11 14.56	− 1 32.8	3.249	3.962	10.9	22.4
2 1	11 10.72	− 1 30.9	3.126	3.946	8.9	22.3
2 11	11 5.40	− 1 17.9	3.027	3.930	6.6	22.1
2 21	10 58.91	− 0 54.8	2.954	3.913	4.1	21.9
3 2	10 51.71	− 0 23.6	2.911	3.896	1.9	21.7
3 12	10 44.39	+ 0 12.9	2.900	3.878	3.0	21.8
3 22	10 37.53	+ 0 51.2	2.919	3.860	5.6	21.9
4 1	10 31.66	+ 1 27.8	2.966	3.841	8.2	22.1

238316 2003 YB_{82} 3 1.9 351°.45 3°.9/27.5 17

1 22	11 13.07	+14 1.3	1.678	2.488	15.7	19.7
2 1	11 10.97	+14 49.8	1.595	2.482	12.4	19.4
2 11	11 6.31	+15 48.1	1.534	2.477	8.6	19.2
2 21	10 59.60	+16 49.4	1.498	2.473	5.0	19.0
3 2	10 51.70	+17 45.2	1.488	2.469	4.2	18.9
3 12	10 43.80	+18 27.8	1.505	2.466	7.4	19.1
3 22	10 36.99	+18 52.0	1.547	2.465	11.4	19.3
4 1	10 32.18	+18 55.6	1.611	2.464	15.0	19.5

70302 1999 RD_{131} 3 1.9 218°.61 3°.3/ 4.8 18

1 22	11 17.80	− 3 53.3	1.930	2.660	16.7	19.7
2 1	11 14.40	− 3 56.3	1.826	2.654	13.9	19.5
2 11	11 8.58	− 3 39.6	1.742	2.647	10.5	19.3
2 21	11 0.75	− 3 3.4	1.682	2.640	6.7	19.0
3 2	10 51.70	− 2 10.5	1.650	2.632	3.5	18.8
3 12	10 42.48	− 1 6.6	1.645	2.624	4.7	18.9
3 22	10 34.14	+ 0 1.2	1.669	2.616	8.5	19.1
4 1	10 27.61	+ 1 5.6	1.718	2.607	12.4	19.3

240769 2005 OW_{26} 3 1.9 236°.41 5°.8/22.4 17

1 22	11 17.80	+27 39.3	3.057	3.839	10.0	21.9
2 1	11 13.55	+28 49.0	2.964	3.823	8.2	21.7
2 11	11 7.49	+29 57.4	2.898	3.807	6.6	21.6
2 21	11 0.02	+30 58.9	2.859	3.790	5.8	21.5
3 2	10 51.71	+31 47.7	2.849	3.773	6.3	21.5
3 12	10 43.33	+32 19.5	2.868	3.756	7.8	21.6
3 22	10 35.60	+32 32.4	2.913	3.737	9.7	21.7
4 1	10 29.17	+32 26.3	2.982	3.719	11.6	21.8

112618 2002 PZ_{69} 3 1.9 165°.07 2°.6/ 4.8 18

1 22	11 16.95	− 4 39.4	2.271	2.987	14.9	20.5
2 1	11 13.20	− 4 15.9	2.173	2.993	12.3	20.3
2 11	11 7.41	− 3 33.3	2.096	2.998	9.2	20.1
2 21	11 0.02	− 2 33.0	2.045	3.002	5.7	19.9
3 2	10 51.72	− 1 18.7	2.022	3.006	2.8	19.7
3 12	10 43.38	+ 0 3.5	2.030	3.009	3.9	19.8
3 22	10 35.85	+ 1 26.6	2.067	3.012	7.3	20.0
4 1	10 29.85	+ 2 44.2	2.132	3.013	10.6	20.2

284144 2005 WX_{48} 3 1.9 190.°85 1.°7/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 20.89	+ 8 24.7	1.715	2.495	16.7	21.5
2 1	11 17.10	+ 9 1.7	1.626	2.494	13.3	21.3
2 11	11 10.56	+ 9 53.0	1.558	2.493	9.2	21.1
2 21	11 1.79	+10 53.3	1.515	2.491	4.6	20.8
3 2	10 51.70	+11 55.2	1.500	2.489	1.9	20.6
3 12	10 41.56	+12 50.5	1.513	2.486	6.0	20.8
3 22	10 32.56	+13 32.8	1.554	2.483	10.5	21.1
4 1	10 25.71	+13 58.1	1.618	2.479	14.6	21.3

503406 2016 CJ_{250} 3 1.9 291.°58 1.°9/29.4 17

1 22	11 16.40	+ 8 42.3	1.620	2.414	16.9	21.8
2 1	11 13.87	+ 9 17.6	1.521	2.398	13.5	21.5
2 11	11 8.56	+10 8.3	1.442	2.381	9.4	21.2
2 21	11 0.88	+11 9.4	1.388	2.365	4.8	20.9
3 2	10 51.71	+12 13.5	1.360	2.349	2.1	20.7
3 12	10 42.30	+13 11.4	1.360	2.333	6.4	20.9
3 22	10 33.93	+13 55.8	1.385	2.317	11.2	21.1
4 1	10 27.71	+14 22.0	1.433	2.302	15.6	21.3

20488 Pic–du–Midi 3 1.9 178.°64 0.°3/ 1.7 18

1 22	11 18.84	+ 6 21.2	2.393	3.148	13.2	19.4
2 1	11 14.56	+ 6 35.7	2.297	3.150	10.5	19.2
2 11	11 8.27	+ 7 0.5	2.223	3.151	7.3	19.0
2 21	11 0.43	+ 7 32.6	2.177	3.151	3.7	18.7
3 2	10 51.72	+ 8 8.0	2.160	3.151	0.3	18.4
3 12	10 42.98	+ 8 42.0	2.174	3.151	4.0	18.7
3 22	10 35.04	+ 9 10.4	2.216	3.150	7.6	19.0
4 1	10 28.60	+ 9 30.0	2.286	3.149	10.8	19.2

386174 2007 UY_{103} 3 1.9 80.°22 0.°1/ 1.8 17

1 22	11 14.62	+ 4 48.4	2.309	3.070	13.5	21.6
2 1	11 11.22	+ 5 16.7	2.227	3.083	10.7	21.5
2 11	11 5.92	+ 5 57.2	2.168	3.096	7.4	21.3
2 21	10 59.20	+ 6 46.4	2.136	3.110	3.7	21.1
3 2	10 51.73	+ 7 39.6	2.132	3.123	0.1	20.8
3 12	10 44.32	+ 8 31.3	2.159	3.137	3.9	21.1
3 22	10 37.74	+ 9 16.8	2.214	3.150	7.4	21.4
4 1	10 32.61	+ 9 52.4	2.295	3.163	10.5	21.6

294480 2007 WR_{5} 3 1.9 83.°28 3.°3/27.7 17

1 22	11 19.14	+16 18.8	2.273	3.057	13.0	20.5
2 1	11 14.85	+16 48.4	2.193	3.064	10.2	20.3
2 11	11 8.47	+17 22.1	2.137	3.072	7.1	20.1
2 21	11 0.51	+17 54.8	2.108	3.079	4.2	19.9
3 2	10 51.72	+18 21.2	2.108	3.087	3.6	19.9
3 12	10 43.04	+18 36.6	2.138	3.094	6.0	20.1
3 22	10 35.31	+18 38.5	2.194	3.101	9.1	20.3
4 1	10 29.23	+18 26.1	2.276	3.109	11.9	20.5

211446 2003 AR_{65} 3 1.9 4.°86 2.°4/ 3.7 17

1 22	11 19.48	+ 1 37.3	1.977	2.726	15.8	19.4
2 1	11 15.53	+ 0 58.0	1.883	2.726	12.9	19.2
2 11	11 9.21	+ 0 30.8	1.811	2.727	9.5	19.0
2 21	11 1.00	+ 0 15.2	1.763	2.728	5.7	18.8
3 2	10 51.72	+ 0 9.6	1.743	2.730	2.6	18.6
3 12	10 42.40	+ 0 10.8	1.752	2.732	4.4	18.7
3 22	10 34.04	+ 0 14.9	1.789	2.734	8.2	18.9
4 1	10 27.49	+ 0 18.1	1.851	2.737	11.8	19.1

292026 2006 QV_{160} 3 1.9 281.°76 0.°7/ 2.5 17

1 22	11 16.76	+ 3 11.5	1.670	2.444	17.3	21.7
2 1	11 14.02	+ 3 22.4	1.569	2.431	14.1	21.4
2 11	11 8.58	+ 3 51.1	1.488	2.418	10.0	21.1
2 21	11 0.87	+ 4 35.0	1.431	2.405	5.4	20.8
3 2	10 51.72	+ 5 29.2	1.401	2.392	0.7	20.5
3 12	10 42.34	+ 6 26.1	1.398	2.378	5.0	20.7
3 22	10 33.97	+ 7 18.2	1.421	2.365	9.9	21.0
4 1	10 27.66	+ 7 59.1	1.468	2.352	14.4	21.2

370206 2002 FN 3 1.9 292.°93 4.°6/ 6.3 18

1 22	11 10.01	−13 21.9	1.120	1.870	25.4	21.0
2 1	11 9.90	−12 12.2	1.029	1.864	21.8	20.7
2 11	11 6.44	−10 7.2	0.953	1.859	17.0	20.3
2 21	11 0.03	− 7 4.0	0.897	1.853	11.2	20.0
3 2	10 51.72	− 3 10.1	0.864	1.848	5.5	19.7
3 12	10 43.14	+ 1 12.8	0.859	1.843	6.3	19.7
3 22	10 35.97	+ 5 34.8	0.880	1.838	12.4	20.0
4 1	10 31.62	+ 9 28.6	0.925	1.833	18.4	20.3

132840 2002 RV_{31} 3 1.9 142.°00 1.°9/ 4.2 18

1 22	11 13.58	− 2 47.5	2.455	3.181	13.6	20.8
2 1	11 10.36	− 2 21.6	2.359	3.187	11.2	20.7
2 11	11 5.33	− 1 39.0	2.285	3.193	8.2	20.5
2 21	10 58.92	− 0 41.7	2.237	3.199	4.9	20.3
3 2	10 51.74	+ 0 26.6	2.218	3.204	2.1	20.1
3 12	10 44.54	+ 1 40.4	2.229	3.209	3.5	20.2
3 22	10 38.05	+ 2 53.7	2.269	3.214	6.7	20.4
4 1	10 32.91	+ 4 1.1	2.337	3.219	9.8	20.6

411450 2010 WF_{66} 3 1.9 38.°58 9.°5/24.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 23.41	+27 13.5	1.375	2.193	18.1	20.0
2 1	11 19.59	+28 25.0	1.331	2.212	14.8	19.9
2 11	11 12.35	+29 31.7	1.307	2.232	11.6	19.7
2 21	11 2.58	+30 21.6	1.306	2.252	9.7	19.7
3 2	10 51.71	+30 44.7	1.330	2.273	10.0	19.7
3 12	10 41.40	+30 35.9	1.377	2.295	12.3	19.9
3 22	10 33.02	+29 56.4	1.447	2.317	15.2	20.2
4 1	10 27.48	+28 50.9	1.537	2.340	18.0	20.4

436751 2011 WF_{116} 3 1.9 345.°46 22.°2/10.1 16

1 22	11 33.69	+48 27.0	1.045	1.846	23.8	20.6
2 1	11 31.42	+51 31.4	1.019	1.845	22.6	20.6
2 11	11 22.77	+54 6.1	1.009	1.844	22.2	20.5
2 21	11 8.64	+55 49.3	1.015	1.844	22.7	20.5
3 2	10 51.65	+56 24.5	1.036	1.843	24.0	20.6
3 12	10 35.60	+55 47.9	1.070	1.843	25.7	20.8
3 22	10 23.56	+54 8.6	1.117	1.843	27.5	20.9
4 1	10 16.99	+51 40.8	1.173	1.843	29.2	21.1

30433 2000 LJ_{21} 3 1.9 30.°45 7.°2/ 9.5 18

1 22	11 15.13	−15 28.5	2.330	2.983	16.1	17.8
2 1	11 11.87	−16 19.2	2.231	2.985	14.1	17.6
2 11	11 6.57	−16 49.9	2.151	2.987	11.9	17.5
2 21	10 59.64	−16 58.2	2.092	2.989	9.5	17.3
3 2	10 51.73	−16 43.3	2.059	2.992	7.7	17.2
3 12	10 43.73	−16 7.3	2.052	2.994	7.3	17.2
3 22	10 36.47	−15 14.9	2.071	2.997	8.5	17.2
4 1	10 30.71	−14 12.5	2.117	2.999	10.7	17.4

200787 2001 XG_{82} 3 1.9 61.°97 1.°5/ 3.1 18

1 22	11 17.57	+ 0 38.6	1.373	2.152	20.2	20.9
2 1	11 14.86	+ 0 53.2	1.304	2.166	16.3	20.6
2 11	11 9.15	+ 1 30.8	1.253	2.181	11.7	20.4
2 21	11 1.07	+ 2 28.0	1.225	2.197	6.4	20.1
3 2	10 51.73	+ 3 38.1	1.222	2.212	1.6	19.9
3 12	10 42.54	+ 4 51.2	1.245	2.228	5.2	20.1
3 22	10 34.80	+ 5 58.1	1.294	2.243	10.3	20.5
4 1	10 29.49	+ 6 51.5	1.366	2.259	14.7	20.8

212021 2005 CK_{15} 3 1.9 36.°64 2.°1/ 3.5 18

1 22	11 17.23	+ 0 36.9	1.454	2.228	19.4	20.4
2 1	11 14.56	+ 0 31.5	1.374	2.233	15.8	20.2
2 11	11 8.98	+ 0 46.6	1.313	2.238	11.5	19.9
2 21	11 1.03	+ 1 20.5	1.274	2.244	6.6	19.7
3 2	10 51.74	+ 2 8.4	1.261	2.250	2.2	19.4
3 12	10 42.46	+ 3 2.5	1.274	2.256	5.1	19.6
3 22	10 34.49	+ 3 54.7	1.313	2.263	10.0	19.9
4 1	10 28.85	+ 4 37.9	1.375	2.270	14.4	20.2

114940 2003 QH_{52} 3 1.9 168.°93 1.°6/29.3 18

1 22	11 20.27	+ 8 45.7	2.112	2.880	14.3	21.0
2 1	11 15.98	+ 9 29.2	2.023	2.885	11.3	20.8
2 11	11 9.43	+10 24.3	1.957	2.890	7.8	20.6
2 21	11 1.09	+11 26.2	1.917	2.893	3.9	20.4
3 2	10 51.75	+12 28.4	1.908	2.896	1.8	20.2
3 12	10 42.41	+13 24.4	1.928	2.898	5.2	20.5
3 22	10 34.01	+14 8.8	1.976	2.899	9.0	20.7
4 1	10 27.36	+14 38.4	2.050	2.900	12.4	20.9

19415 Parvamenon 3 1.9 4.°56 2.°2/ 3.6 18

1 22	11 10.29	− 0 39.4	1.184	1.983	21.6	18.0
2 1	11 9.69	− 0 33.3	1.109	1.982	17.7	17.7
2 11	11 5.96	+ 0 0.3	1.050	1.982	12.9	17.5
2 21	10 59.63	+ 0 59.4	1.012	1.984	7.4	17.2
3 2	10 51.76	+ 2 17.4	0.998	1.987	2.5	16.9
3 12	10 43.86	+ 3 43.4	1.007	1.991	5.6	17.1
3 22	10 37.37	+ 5 5.2	1.040	1.996	11.1	17.4
4 1	10 33.44	+ 6 12.8	1.094	2.002	16.1	17.7

122857 2000 SK_{132} 3 1.9 65.°88 5.°9/ 6.7 18

1 22	11 22.20	− 7 56.8	1.831	2.536	18.3	19.9
2 1	11 17.71	− 8 54.6	1.757	2.559	15.5	19.7
2 11	11 10.70	− 9 32.5	1.702	2.582	12.2	19.5
2 21	11 1.74	− 9 48.6	1.670	2.605	8.8	19.4
3 2	10 51.75	− 9 43.3	1.664	2.628	6.3	19.3
3 12	10 41.89	− 9 20.1	1.686	2.652	6.4	19.3
3 22	10 33.23	− 8 45.0	1.735	2.674	8.9	19.5
4 1	10 26.59	− 8 4.6	1.809	2.697	11.9	19.8

109704 2001 RJ_{42} 3 1.9 120.°23 2.°8/27.4 18

1 22	11 14.58	+13 9.8	2.493	3.275	12.0	20.2
2 1	11 11.12	+14 12.3	2.413	3.285	9.4	20.0
2 11	11 5.84	+15 22.0	2.358	3.294	6.4	19.8
2 21	10 59.17	+16 33.7	2.331	3.304	3.7	19.7
3 2	10 51.77	+17 41.3	2.334	3.313	3.1	19.7
3 12	10 44.41	+18 39.0	2.366	3.322	5.5	19.8
3 22	10 37.81	+19 23.0	2.427	3.331	8.4	20.0
4 1	10 32.61	+19 51.2	2.512	3.339	11.1	20.2

370059 2000 WR_{150} 3 1.9 87°.11 17°.5/15.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 22.46	−26 26.0	1.251	1.889	28.2	20.4
2 1	11 19.88	−28 52.2	1.186	1.901	26.1	20.3
2 11	11 13.46	−30 42.8	1.132	1.914	23.6	20.1
2 21	11 3.67	−31 46.5	1.091	1.927	21.0	19.9
3 2	10 51.73	−31 54.2	1.067	1.939	18.8	19.8
3 12	10 39.58	−31 4.7	1.060	1.951	17.6	19.8
3 22	10 29.15	−29 25.8	1.073	1.964	17.7	19.8
4 1	10 21.97	−27 13.3	1.105	1.975	19.1	20.0

84675 2002 VW_{87} 3 1.9 136°.07 3°.9/ 6.6 18

1 22	11 15.31	− 8 15.6	2.691	3.377	13.4	20.1
2 1	11 11.55	− 8 25.1	2.594	3.387	11.3	19.9
2 11	11 6.07	− 8 18.3	2.519	3.397	8.8	19.8
2 21	10 59.29	− 7 55.5	2.468	3.406	6.2	19.6
3 2	10 51.77	− 7 18.2	2.446	3.414	4.2	19.5
3 12	10 44.25	− 6 30.0	2.453	3.423	4.3	19.5
3 22	10 37.40	− 5 35.4	2.489	3.431	6.4	19.6
4 1	10 31.83	− 4 39.6	2.553	3.439	9.0	19.8

289898 2005 MU_{46} 3 1.9 230°.63 4°.1/ 5.5 17

1 22	11 17.27	− 5 15.2	1.921	2.646	17.0	21.4
2 1	11 13.99	− 5 34.2	1.820	2.642	14.2	21.2
2 11	11 8.30	− 5 33.8	1.739	2.637	10.9	21.0
2 21	11 0.63	− 5 13.5	1.681	2.632	7.3	20.8
3 2	10 51.77	− 4 35.1	1.649	2.627	4.4	20.6
3 12	10 42.75	− 3 43.4	1.646	2.622	5.1	20.6
3 22	10 34.63	− 2 45.0	1.670	2.617	8.5	20.8
4 1	10 28.32	− 1 46.9	1.719	2.611	12.2	21.0

285631 2000 RB_{84} 3 1.9 115°.03 2°.3/ 4.2 18

1 22	11 20.83	− 2 52.4	1.981	2.708	16.5	21.2
2 1	11 16.38	− 2 33.7	1.904	2.732	13.4	21.1
2 11	11 9.64	− 1 55.7	1.847	2.755	9.8	20.9
2 21	11 1.16	− 1 0.6	1.815	2.777	5.9	20.7
3 2	10 51.78	+ 0 7.1	1.812	2.798	2.5	20.5
3 12	10 42.54	+ 1 20.5	1.839	2.819	4.1	20.6
3 22	10 34.38	+ 2 32.4	1.895	2.839	7.9	20.9
4 1	10 28.06	+ 3 36.6	1.977	2.857	11.4	21.2

70821 1999 VX_{79} 3 1.9 85°.10 0°.1/ 1.8 18

1 22	11 19.21	+ 5 19.1	1.645	2.422	17.4	19.5
2 1	11 15.73	+ 5 34.2	1.566	2.431	13.9	19.3
2 11	11 9.55	+ 6 4.8	1.507	2.439	9.7	19.1
2 21	11 1.25	+ 6 47.1	1.473	2.448	4.9	18.8
3 2	10 51.78	+ 7 35.0	1.466	2.457	0.2	18.4
3 12	10 42.37	+ 8 21.2	1.486	2.465	5.1	18.8
3 22	10 34.20	+ 8 59.4	1.533	2.474	9.7	19.1
4 1	10 28.17	+ 9 25.1	1.604	2.482	13.7	19.4

114504 2003 AR_{77} 3 1.9 291°.24 9°.4/21.7 18

1 22	11 20.18	+28 34.6	1.748	2.556	15.3	19.3
2 1	11 16.96	+30 8.0	1.669	2.542	12.8	19.1
2 11	11 10.72	+31 40.4	1.612	2.527	10.5	18.9
2 21	11 1.98	+33 0.6	1.580	2.512	9.5	18.8
3 2	10 51.77	+33 57.6	1.573	2.498	10.3	18.8
3 12	10 41.48	+34 23.5	1.590	2.484	12.6	18.9
3 22	10 32.49	+34 16.0	1.630	2.469	15.4	19.1
4 1	10 25.89	+33 37.4	1.690	2.455	18.1	19.2

86621 2000 EB_{121} 3 1.9 288°.99 3°.1/28.5 17

1 22	11 16.23	+ 9 36.7	1.428	2.233	18.2	19.9
2 1	11 14.29	+10 30.3	1.327	2.211	14.6	19.6
2 11	11 9.23	+11 42.9	1.247	2.189	10.2	19.2
2 21	11 1.42	+13 8.3	1.189	2.167	5.3	18.9
3 2	10 51.78	+14 36.5	1.158	2.145	3.4	18.7
3 12	10 41.72	+15 55.5	1.152	2.122	7.9	18.9
3 22	10 32.78	+16 55.4	1.171	2.100	13.2	19.1
4 1	10 26.27	+17 30.3	1.211	2.078	18.1	19.3

470389 2007 TU_{346} 3 1.9 147°.36 4°.6/25.3 16

1 22	11 17.72	+21 9.1	2.669	3.454	11.2	22.0
2 1	11 13.50	+22 8.0	2.593	3.462	8.9	21.9
2 11	11 7.43	+23 8.3	2.542	3.469	6.5	21.7
2 21	10 59.98	+24 4.4	2.519	3.476	4.8	21.6
3 2	10 51.79	+24 50.6	2.525	3.483	4.9	21.6
3 12	10 43.67	+25 22.4	2.561	3.489	6.8	21.8
3 22	10 36.35	+25 37.5	2.624	3.495	9.2	21.9
4 1	10 30.46	+25 35.6	2.711	3.500	11.4	22.1

207003 2004 TO_{269} 3 1.9 89°.96 1°.6/ 3.3 18

1 22	11 18.28	− 0 25.9	1.577	2.338	18.7	21.0
2 1	11 15.04	− 0 4.0	1.503	2.354	15.1	20.8
2 11	11 9.08	+ 0 39.9	1.448	2.371	10.9	20.6
2 21	11 1.00	+ 1 42.5	1.417	2.387	6.1	20.3
3 2	10 51.79	+ 2 57.6	1.413	2.402	1.8	20.1
3 12	10 42.70	+ 4 16.4	1.436	2.418	4.7	20.3
3 22	10 34.88	+ 5 29.9	1.487	2.433	9.4	20.6
4 1	10 29.25	+ 6 31.3	1.561	2.448	13.5	20.9

431591 2007 VC_{124} 3 1.9 170°.03 3°.2/ 5.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 14.15	− 6 13.0	2.656	3.358	13.3	21.5
2 1	11 10.71	− 6 10.4	2.554	3.360	11.1	21.4
2 11	11 5.55	− 5 51.7	2.472	3.362	8.5	21.2
2 21	10 59.05	− 5 17.6	2.417	3.364	5.7	21.0
3 2	10 51.80	− 4 30.2	2.389	3.366	3.4	20.9
3 12	10 44.50	− 3 33.5	2.391	3.367	3.8	20.9
3 22	10 37.85	− 2 32.4	2.423	3.368	6.4	21.0
4 1	10 32.45	− 1 32.3	2.482	3.368	9.2	21.2

522666 2016 GZ_{264} 3 1.9 271°.10 2°.7/28.4 17

1 22	11 16.83	+11 57.0	1.966	2.754	14.5	21.9
2 1	11 13.57	+12 38.4	1.874	2.748	11.5	21.7
2 11	11 7.94	+13 29.9	1.804	2.742	7.9	21.4
2 21	11 0.42	+14 25.9	1.760	2.735	4.2	21.2
3 2	10 51.79	+15 19.6	1.744	2.729	2.9	21.1
3 12	10 43.10	+16 4.2	1.756	2.722	6.1	21.3
3 22	10 35.36	+16 34.7	1.796	2.716	10.0	21.5
4 1	10 29.41	+16 48.4	1.859	2.709	13.5	21.7

414858 2010 VD_{86} 3 1.9 124°.53 3°.3/27.5 18

1 22	11 21.55	+14 46.2	2.335	3.110	12.9	22.0
2 1	11 16.62	+15 41.7	2.265	3.131	10.1	21.8
2 11	11 9.62	+16 42.9	2.219	3.151	7.0	21.6
2 21	11 1.10	+17 44.0	2.200	3.171	4.1	21.5
3 2	10 51.81	+18 38.6	2.212	3.190	3.5	21.5
3 12	10 42.67	+19 21.5	2.255	3.208	6.0	21.7
3 22	10 34.52	+19 49.2	2.325	3.225	9.0	21.9
4 1	10 28.02	+20 0.8	2.421	3.241	11.7	22.1

197582 2004 HP_{4} 3 1.9 264°.59 4°.0/28.0 18

1 22	11 20.45	+13 10.5	1.469	2.273	17.9	20.4
2 1	11 17.43	+13 57.4	1.379	2.262	14.2	20.2
2 11	11 11.24	+14 57.0	1.310	2.251	9.9	19.9
2 21	11 2.35	+16 2.0	1.265	2.240	5.6	19.6
3 2	10 51.80	+17 2.4	1.246	2.229	4.4	19.5
3 12	10 41.07	+17 48.3	1.253	2.217	8.2	19.7
3 22	10 31.65	+18 13.3	1.285	2.206	13.0	19.9
4 1	10 24.75	+18 14.8	1.339	2.194	17.3	20.2

28573 2000 EG_{81} 3 1.9 218°.85 1°.9/29.2 18

1 22	11 19.10	+ 9 54.4	2.111	2.885	14.2	19.4
2 1	11 15.20	+10 30.3	2.012	2.877	11.2	19.2
2 11	11 9.00	+11 17.0	1.935	2.870	7.7	19.0
2 21	11 0.95	+12 9.8	1.886	2.861	4.0	18.7
3 2	10 51.81	+13 2.7	1.865	2.853	2.0	18.6
3 12	10 42.57	+13 49.3	1.874	2.843	5.4	18.8
3 22	10 34.20	+14 24.5	1.910	2.833	9.2	19.0
4 1	10 27.54	+14 45.3	1.972	2.823	12.7	19.2

458884 2011 UZ_{164} 3 1.9 157°.16 0°.4/ 2.4 18

1 22	11 19.70	+ 2 7.8	2.103	2.849	15.1	22.3
2 1	11 15.52	+ 2 43.3	2.013	2.858	12.1	22.1
2 11	11 9.10	+ 3 35.1	1.945	2.867	8.5	21.9
2 21	11 0.95	+ 4 39.7	1.903	2.874	4.5	21.7
3 2	10 51.82	+ 5 51.6	1.890	2.881	0.5	21.4
3 12	10 42.69	+ 7 4.0	1.908	2.887	4.2	21.7
3 22	10 34.50	+ 8 10.2	1.955	2.892	8.2	21.9
4 1	10 28.01	+ 9 5.2	2.028	2.896	11.7	22.2

372707 2009 WM_{256} 3 1.9 99°.78 0°.0/ 1.9 17

1 22	11 16.44	+ 4 36.4	2.021	2.786	15.0	21.5
2 1	11 13.03	+ 4 59.0	1.935	2.793	12.0	21.3
2 11	11 7.42	+ 5 35.5	1.871	2.800	8.3	21.1
2 21	11 0.10	+ 6 22.4	1.832	2.806	4.3	20.8
3 2	10 51.82	+ 7 14.7	1.822	2.813	0.0	20.5
3 12	10 43.57	+ 8 6.0	1.840	2.819	4.3	20.9
3 22	10 36.26	+ 8 50.9	1.887	2.825	8.3	21.1
4 1	10 30.64	+ 9 25.1	1.959	2.832	11.9	21.3

47954 2000 QF_{40} 3 1.9 55°.33 1°.8/29.5 18

1 22	11 15.48	+ 6 4.7	1.372	2.172	19.1	19.1
2 1	11 13.28	+ 7 5.9	1.303	2.183	15.1	18.9
2 11	11 8.12	+ 8 27.7	1.254	2.195	10.3	18.7
2 21	11 0.61	+10 2.8	1.229	2.206	5.1	18.4
3 2	10 51.82	+11 40.7	1.229	2.218	2.0	18.2
3 12	10 43.15	+13 9.6	1.256	2.231	6.6	18.5
3 22	10 35.89	+14 20.3	1.308	2.243	11.5	18.8
4 1	10 31.01	+15 7.8	1.383	2.256	15.8	19.1

231831 2000 OR_{10} 3 1.9 204°.65 3°.4/ 5.6 18

1 22	11 19.23	− 5 49.3	2.758	3.448	13.1	21.3
2 1	11 14.71	− 6 3.1	2.643	3.441	11.0	21.1
2 11	11 8.35	− 6 2.5	2.549	3.434	8.5	20.9
2 21	11 0.53	− 5 47.7	2.482	3.426	5.7	20.7
3 2	10 51.83	− 5 19.9	2.443	3.417	3.6	20.6
3 12	10 42.99	− 4 42.1	2.435	3.408	4.1	20.6
3 22	10 34.75	− 3 58.5	2.457	3.397	6.6	20.7
4 1	10 27.79	− 3 13.7	2.508	3.386	9.4	20.9

246366 2007 TE_{392} 3 1.9 272.°94 2.°5/ 4.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 12.70	− 3 39.2	2.256	2.986	14.6	20.8
2 1	11 9.95	− 3 22.6	2.153	2.982	12.1	20.6
2 11	11 5.26	− 2 47.6	2.071	2.978	9.0	20.4
2 21	10 59.00	− 1 55.7	2.014	2.974	5.6	20.1
3 2	10 51.84	− 0 50.1	1.985	2.970	2.7	19.9
3 12	10 44.59	+ 0 23.4	1.985	2.966	3.8	20.0
3 22	10 38.07	+ 1 38.4	2.014	2.961	7.2	20.2
4 1	10 32.99	+ 2 48.5	2.069	2.957	10.6	20.4

284863 2009 CL_2 3 1.9 311.°91 3.°6/26.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.71	+14 24.3	2.230	3.023	12.9	20.6
2 1	11 10.79	+15 31.2	2.143	3.021	10.1	20.4
2 11	11 5.84	+16 46.3	2.081	3.019	7.0	20.2
2 21	10 59.29	+18 3.3	2.045	3.017	4.2	20.0
3 2	10 51.84	+19 15.2	2.039	3.015	3.9	20.0
3 12	10 44.37	+20 15.3	2.061	3.013	6.5	20.2
3 22	10 37.70	+20 59.0	2.110	3.011	9.7	20.3
4 1	10 32.57	+21 24.0	2.183	3.010	12.6	20.5

460346 2014 RM_{25} 3 1.9 91.°10 2.°3/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.00	− 1 51.2	1.711	2.460	17.9	21.8
2 1	11 14.61	− 1 39.1	1.634	2.476	14.6	21.6
2 11	11 8.69	− 1 6.0	1.577	2.492	10.6	21.3
2 21	11 0.79	− 0 14.1	1.543	2.508	6.3	21.1
3 2	10 51.84	+ 0 51.5	1.536	2.524	2.5	20.9
3 12	10 42.99	+ 2 3.2	1.558	2.539	4.5	21.1
3 22	10 35.30	+ 3 13.1	1.607	2.554	8.7	21.4
4 1	10 29.63	+ 4 14.1	1.681	2.569	12.6	21.6

83693 2001 TY_{65} 3 1.9 171.°99 1.°2/ 3.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.47	+ 0 1.0	3.001	3.726	11.4	20.6
2 1	11 10.71	+ 0 17.6	2.899	3.729	9.3	20.5
2 11	11 5.42	+ 0 45.9	2.821	3.732	6.7	20.3
2 21	10 58.96	+ 1 24.2	2.769	3.734	3.8	20.1
3 2	10 51.85	+ 2 9.7	2.748	3.736	1.3	19.9
3 12	10 44.72	+ 2 58.4	2.757	3.737	2.9	20.1
3 22	10 38.16	+ 3 46.4	2.797	3.738	5.8	20.3
4 1	10 32.70	+ 4 29.9	2.865	3.739	8.5	20.4

172958 2005 LH_{11} 3 1.9 177.°85 5.°8/ 8.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.67	−12 42.2	2.570	3.231	14.5	20.0
2 1	11 12.08	−13 21.2	2.466	3.231	12.6	19.9
2 11	11 6.61	−13 42.7	2.381	3.232	10.3	19.7
2 21	10 59.67	−13 45.2	2.320	3.232	8.0	19.5
3 2	10 51.85	−13 28.8	2.286	3.232	6.2	19.4
3 12	10 43.93	−12 55.6	2.279	3.232	6.0	19.4
3 22	10 36.67	−12 9.8	2.301	3.232	7.5	19.5
4 1	10 30.76	−11 17.0	2.349	3.232	9.7	19.6

211873 2004 HQ_{24} 3 1.9 234.°25 0.°8/ 2.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.33	+ 1 22.9	2.671	3.412	12.3	21.3
2 1	11 10.12	+ 1 49.6	2.562	3.403	9.9	21.1
2 11	11 5.19	+ 2 29.6	2.475	3.394	7.1	20.9
2 21	10 58.92	+ 3 20.6	2.415	3.385	3.9	20.7
3 2	10 51.86	+ 4 19.1	2.385	3.375	0.9	20.5
3 12	10 44.69	+ 5 20.2	2.385	3.365	3.3	20.6
3 22	10 38.12	+ 6 18.9	2.415	3.355	6.6	20.8
4 1	10 32.77	+ 7 10.8	2.471	3.344	9.7	21.0

465203 2007 LC_{21} 3 1.9 215.°63 1.°4/29.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.35	+ 7 44.7	2.208	2.980	13.7	21.7
2 1	11 12.09	+ 8 29.5	2.112	2.976	10.8	21.5
2 11	11 6.76	+ 9 26.6	2.038	2.972	7.4	21.2
2 21	10 59.78	+10 31.8	1.992	2.968	3.7	21.0
3 2	10 51.85	+11 38.9	1.974	2.963	1.5	20.8
3 12	10 43.85	+12 41.5	1.986	2.958	4.9	21.1
3 22	10 36.64	+13 34.0	2.027	2.953	8.6	21.3
4 1	10 30.98	+14 12.6	2.092	2.948	11.9	21.5

289335 2005 AY_{78} 3 1.9 291.°49 0.°6/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 18.05	+ 4 46.2	2.095	2.855	14.7	21.1
2 1	11 14.34	+ 4 42.2	1.995	2.849	11.8	20.9
2 11	11 8.38	+ 4 49.8	1.918	2.844	8.4	20.7
2 21	11 0.64	+ 5 6.9	1.866	2.838	4.5	20.4
3 2	10 51.85	+ 5 29.9	1.842	2.833	0.6	20.1
3 12	10 42.98	+ 5 54.2	1.848	2.828	4.1	20.4
3 22	10 34.97	+ 6 15.3	1.882	2.823	8.1	20.6
4 1	10 28.64	+ 6 29.4	1.941	2.818	11.8	20.8

8483 Kinwalaniihsia 3 1.9 247.°61 4.°7/27.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 20.45	+16 1.2	1.699	2.498	16.0	18.1
2 1	11 16.94	+16 54.3	1.611	2.491	12.7	17.9
2 11	11 10.58	+17 55.9	1.545	2.483	9.0	17.6
2 21	11 1.90	+18 58.4	1.505	2.475	5.6	17.4
3 2	10 51.85	+19 52.8	1.491	2.468	5.1	17.4
3 12	10 41.72	+20 30.8	1.505	2.460	8.2	17.5
3 22	10 32.78	+20 47.8	1.544	2.451	12.2	17.7
4 1	10 26.06	+20 42.4	1.606	2.443	15.8	17.9

302440 2002 EQ_{40} 3 1.9 311.°15 1.°9/29.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 20.46	+10 18.6	1.471	2.268	18.2	20.1
2 1	11 17.35	+10 28.7	1.382	2.260	14.5	19.8
2 11	11 11.11	+10 50.8	1.312	2.251	10.1	19.5
2 21	11 2.26	+11 20.1	1.267	2.244	5.2	19.2
3 2	10 51.85	+11 49.5	1.247	2.236	2.0	19.0
3 12	10 41.31	+12 11.6	1.254	2.229	6.5	19.2
3 22	10 32.09	+12 21.0	1.286	2.222	11.6	19.5
4 1	10 25.34	+12 14.5	1.340	2.215	16.1	19.7

319469 2006 PY_2 3 1.9 225.°51 1.°0/29.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.38	+ 6 23.6	2.488	3.253	12.5	21.1
2 1	11 10.30	+ 7 14.2	2.386	3.247	9.9	20.9
2 11	11 5.39	+ 8 17.1	2.309	3.241	6.8	20.7
2 21	10 59.05	+ 9 28.5	2.259	3.234	3.4	20.4
3 2	10 51.87	+10 43.1	2.238	3.228	1.1	20.3
3 12	10 44.61	+11 54.5	2.248	3.221	4.3	20.5
3 22	10 38.01	+12 57.5	2.287	3.214	7.7	20.7
4 1	10 32.74	+13 48.1	2.352	3.207	10.8	20.9

125748 2001 XH_{121} 3 1.9 197.°35 2.°4/ 4.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.02	− 2 46.0	2.132	2.863	15.3	20.9
2 1	11 12.70	− 2 35.4	2.031	2.861	12.6	20.7
2 11	11 7.24	− 2 6.5	1.951	2.859	9.4	20.5
2 21	11 0.06	− 1 20.8	1.896	2.857	5.7	20.2
3 2	10 51.86	− 0 21.6	1.869	2.854	2.6	20.0
3 12	10 43.58	+ 0 45.4	1.871	2.851	4.0	20.1
3 22	10 36.10	+ 1 53.5	1.901	2.847	7.7	20.3
4 1	10 30.22	+ 2 56.4	1.958	2.844	11.3	20.5

518907 2010 FW_{107} 3 1.9 259.°98 1.°0/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 14.70	+ 6 36.5	2.037	2.812	14.6	21.6
2 1	11 11.75	+ 7 17.0	1.945	2.810	11.5	21.4
2 11	11 6.61	+ 8 11.3	1.875	2.809	8.0	21.2
2 21	10 59.74	+ 9 15.1	1.831	2.807	4.0	20.9
3 2	10 51.87	+10 22.2	1.815	2.805	1.1	20.7
3 12	10 43.95	+11 25.6	1.828	2.803	4.9	21.0
3 22	10 36.90	+12 19.4	1.869	2.801	8.8	21.2
4 1	10 31.50	+12 59.2	1.935	2.800	12.4	21.4

20586 Elizkolod 3 1.9 126.°13 1.°7/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 15.88	+ 8 39.5	2.110	2.887	14.1	19.1
2 1	11 12.52	+ 9 28.4	2.026	2.894	11.1	18.9
2 11	11 7.04	+10 29.1	1.965	2.900	7.6	18.7
2 21	10 59.91	+11 36.5	1.930	2.906	3.8	18.5
3 2	10 51.87	+12 44.2	1.924	2.912	1.9	18.4
3 12	10 43.85	+13 45.5	1.948	2.918	5.2	18.6
3 22	10 36.73	+14 35.0	1.999	2.923	8.8	18.8
4 1	10 31.25	+15 9.3	2.075	2.929	12.1	19.0

364749 2007 VC_{294} 3 1.9 238.°45 2.°6/ 4.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 16.58	− 2 41.0	1.833	2.576	17.1	22.0
2 1	11 13.63	− 2 30.0	1.729	2.566	14.1	21.7
2 11	11 8.19	− 1 57.7	1.644	2.557	10.5	21.5
2 21	11 0.68	− 1 5.2	1.584	2.547	6.4	21.2
3 2	10 51.87	+ 0 3.8	1.550	2.537	2.8	21.0
3 12	10 42.85	+ 1 22.3	1.545	2.526	4.6	21.1
3 22	10 34.74	+ 2 42.0	1.567	2.515	8.9	21.3
4 1	10 28.49	+ 3 54.9	1.615	2.503	13.0	21.5

66940 1999 WM_{11} 3 1.9 158.°89 2.°1/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 17.39	− 2 2.6	2.724	3.438	12.7	20.1
2 1	11 13.15	− 1 59.8	2.625	3.446	10.4	19.9
2 11	11 7.19	− 1 43.6	2.549	3.453	7.7	19.8
2 21	10 59.90	− 1 15.5	2.500	3.459	4.7	19.6
3 2	10 51.88	− 0 37.7	2.480	3.465	2.2	19.4
3 12	10 43.84	+ 0 5.7	2.491	3.470	3.3	19.5
3 22	10 36.47	+ 0 50.4	2.532	3.474	6.3	19.7
4 1	10 30.39	+ 1 32.4	2.600	3.478	9.1	19.9

255822 2006 SO_{70} 3 1.9 97.°07 1.°6/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 21.21	+ 8 59.8	1.894	2.668	15.5	21.8
2 1	11 16.79	+ 9 35.7	1.825	2.691	12.2	21.6
2 11	11 9.97	+10 22.8	1.779	2.713	8.3	21.4
2 21	11 1.36	+11 15.7	1.759	2.734	4.2	21.2
3 2	10 51.87	+12 7.9	1.767	2.756	1.8	21.1
3 12	10 42.58	+12 52.9	1.805	2.777	5.3	21.3
3 22	10 34.47	+13 25.9	1.870	2.797	9.2	21.6
4 1	10 28.30	+13 44.3	1.960	2.817	12.6	21.9

330061 2005 UH_{515} 3 1.9 294.°44 3.°4/27.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1 22	11 13.10	+10 19.7	1.751	2.550	15.6	20.9
2 1	11 11.10	+11 39.2	1.651	2.532	12.4	20.6
2 11	11 6.56	+13 15.8	1.573	2.514	8.5	20.4
2 21	10 59.90	+15 2.5	1.520	2.496	4.7	20.1
3 2	10 51.88	+16 49.6	1.495	2.478	3.8	20.0
3 12	10 43.61	+18 26.2	1.499	2.460	7.5	20.2
3 22	10 36.25	+19 43.6	1.528	2.443	11.7	20.4
4 1	10 30.81	+20 36.7	1.580	2.425	15.6	20.6

114123 2002 VX_{49} 3 1.9 172°.75 7°.7/22.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 21.93	+27 15.5	2.119	2.912	13.5	20.2
2 1	11 17.57	+28 47.6	2.050	2.915	11.0	20.1
2 11	11 10.69	+30 18.4	2.005	2.918	8.9	19.9
2 21	11 1.82	+31 38.5	1.986	2.920	7.7	19.9
3 2	10 51.88	+32 39.4	1.995	2.921	8.4	19.9
3 12	10 41.99	+33 14.9	2.031	2.922	10.3	20.0
3 22	10 33.24	+33 23.4	2.091	2.922	12.8	20.2
4 1	10 26.48	+33 6.2	2.172	2.922	15.1	20.3

93510 2000 TT_{56} 3 1.9 68°.00 4°.6/27.7 18

1 22	11 21.93	+15 19.7	1.437	2.244	18.1	19.1
2 1	11 18.31	+16 6.6	1.371	2.255	14.2	18.9
2 11	11 11.55	+17 2.1	1.326	2.266	9.9	18.6
2 21	11 2.35	+17 57.6	1.305	2.278	5.9	18.4
3 2	10 51.88	+18 43.6	1.310	2.289	5.0	18.4
3 12	10 41.63	+19 12.0	1.341	2.301	8.4	18.6
3 22	10 32.96	+19 18.9	1.397	2.313	12.5	18.9
4 1	10 26.85	+19 4.1	1.474	2.324	16.3	19.2

177506 2004 ED_{58} 3 1.9 226°.46 1°.4/29.7 18

1 22	11 17.61	+ 7 53.7	1.921	2.698	15.2	20.4
2 1	11 14.25	+ 8 29.0	1.826	2.693	12.1	20.2
2 11	11 8.48	+ 9 17.6	1.753	2.688	8.4	19.9
2 21	11 0.76	+10 15.0	1.706	2.682	4.2	19.7
3 2	10 51.89	+11 14.8	1.687	2.677	1.5	19.5
3 12	10 42.92	+12 9.8	1.697	2.670	5.3	19.7
3 22	10 34.91	+12 54.0	1.734	2.664	9.5	20.0
4 1	10 28.72	+13 23.5	1.795	2.658	13.3	20.2

24987 1998 KA_{65} 3 1.9 211°.27 1°.2/ 1.0 18

1 22	11 22.58	+ 7 38.7	1.816	2.586	16.3	19.0
2 1	11 18.41	+ 8 6.4	1.717	2.579	13.0	18.8
2 11	11 11.53	+ 8 47.9	1.640	2.572	9.1	18.5
2 21	11 2.39	+ 9 38.8	1.588	2.564	4.6	18.2
3 2	10 51.89	+10 32.9	1.565	2.555	1.3	18.0
3 12	10 41.23	+11 22.5	1.571	2.545	5.5	18.3
3 22	10 31.62	+12 1.6	1.604	2.535	10.1	18.5
4 1	10 24.07	+12 25.9	1.662	2.523	14.2	18.7

16511 1990 UR_{4} 3 1.9 358°.87 5°.2/27.1 18

1 22	11 17.09	+14 44.6	1.334	2.153	18.5	18.0
2 1	11 14.92	+15 49.3	1.260	2.152	14.6	17.8
2 11	11 9.51	+17 6.1	1.207	2.151	10.3	17.5
2 21	11 1.46	+18 25.7	1.177	2.150	6.2	17.3
3 2	10 51.90	+19 36.2	1.172	2.151	5.7	17.3
3 12	10 42.36	+20 27.1	1.192	2.151	9.3	17.5
3 22	10 34.31	+20 52.3	1.236	2.152	13.8	17.7
4 1	10 28.87	+20 50.5	1.300	2.153	17.9	18.0

428785 2008 SX_{275} 3 1.9 227°.16 0°.5/ 2.5 17

1 22	11 14.75	+ 2 33.5	2.125	2.883	14.6	22.2
2 1	11 11.70	+ 2 59.6	2.028	2.880	11.7	21.9
2 11	11 6.54	+ 3 41.1	1.953	2.878	8.3	21.7
2 21	10 59.71	+ 4 35.2	1.903	2.875	4.4	21.5
3 2	10 51.91	+ 5 37.0	1.882	2.872	0.6	21.2
3 12	10 44.04	+ 6 40.3	1.889	2.870	4.0	21.4
3 22	10 36.98	+ 7 38.9	1.926	2.867	8.0	21.7
4 1	10 31.49	+ 8 27.7	1.987	2.864	11.6	21.9

337849 2001 VH_{101} 3 1.9 119°.28 3°.2/27.5 17

1 22	11 17.78	+16 13.9	2.476	3.258	12.1	20.7
2 1	11 13.66	+16 51.1	2.394	3.265	9.5	20.5
2 11	11 7.63	+17 32.5	2.337	3.271	6.6	20.3
2 21	11 0.15	+18 13.2	2.308	3.278	4.0	20.2
3 2	10 51.91	+18 48.0	2.307	3.284	3.5	20.1
3 12	10 43.74	+19 12.3	2.336	3.290	5.7	20.3
3 22	10 36.40	+19 23.4	2.394	3.297	8.6	20.5
4 1	10 30.55	+19 20.3	2.476	3.302	11.3	20.7

456712 2007 RD_{290} 3 1.9 142°.94 2°.3/29.0 18

1 22	11 25.46	+12 23.5	2.055	2.823	14.7	21.9
2 1	11 20.07	+12 48.8	1.974	2.836	11.6	21.7
2 11	11 12.24	+13 21.4	1.916	2.848	8.0	21.5
2 21	11 2.56	+13 56.4	1.885	2.859	4.2	21.3
3 2	10 51.91	+14 28.0	1.884	2.870	2.5	21.2
3 12	10 41.38	+14 50.7	1.913	2.879	5.6	21.5
3 22	10 32.00	+15 1.3	1.970	2.888	9.3	21.7
4 1	10 24.56	+14 58.1	2.053	2.897	12.6	21.9

66 Maja 3 1.9 87°.83 0°.8/ 1.3 18 R

1 22	11 19.71	+ 7 1.9	1.881	2.653	15.7	13.7
2 1	11 15.67	+ 7 25.7	1.808	2.671	12.4	13.5
2 11	11 9.26	+ 8 1.9	1.757	2.689	8.5	13.3
2 21	11 1.05	+ 8 46.1	1.731	2.707	4.3	13.1
3 2	10 51.92	+ 9 32.6	1.734	2.724	0.8	12.9
3 12	10 42.94	+10 15.0	1.765	2.742	4.8	13.2
3 22	10 35.09	+10 48.2	1.825	2.759	8.9	13.5
4 1	10 29.15	+11 9.1	1.909	2.776	12.4	13.7

192737 1999 TR_{205} 3 1.9 166°.64 2°.9/27.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 19.55	+14 37.5	2.451	3.227	12.4	20.5
2 1	11 15.11	+15 14.7	2.364	3.231	9.7	20.4
2 11	11 8.67	+15 57.3	2.301	3.234	6.7	20.2
2 21	11 0.71	+16 40.7	2.265	3.237	3.8	20.0
3 2	10 51.92	+17 19.4	2.260	3.240	3.1	19.9
3 12	10 43.16	+17 48.6	2.284	3.242	5.5	20.1
3 22	10 35.25	+18 5.1	2.337	3.244	8.6	20.3
4 1	10 28.85	+18 7.6	2.415	3.245	11.4	20.5

497762 2006 SL_{303} 3 1.9 78°.24 0°.3/ 1.7 17

1 22	11 17.56	+ 6 59.1	2.342	3.104	13.3	21.3
2 1	11 13.56	+ 7 5.6	2.256	3.112	10.5	21.1
2 11	11 7.60	+ 7 21.6	2.192	3.121	7.3	20.9
2 21	11 0.16	+ 7 44.1	2.155	3.130	3.7	20.7
3 2	10 51.92	+ 8 9.3	2.147	3.138	0.3	20.4
3 12	10 43.74	+ 8 32.9	2.169	3.147	3.9	20.7
3 22	10 36.39	+ 8 51.3	2.220	3.155	7.4	21.0
4 1	10 30.55	+ 9 1.6	2.297	3.164	10.6	21.2

224294 2005 TW_{126} 3 1.9 328°.35 1°.0/ 1.1 18

1 22	11 17.03	+ 7 40.6	1.723	2.508	16.4	21.1
2 1	11 14.06	+ 8 0.7	1.633	2.504	13.1	20.8
2 11	11 8.50	+ 8 34.3	1.565	2.500	9.1	20.6
2 21	11 0.82	+ 9 17.3	1.520	2.497	4.6	20.3
3 2	10 51.92	+10 3.4	1.503	2.493	1.1	20.0
3 12	10 42.95	+10 45.6	1.513	2.490	5.4	20.3
3 22	10 35.06	+11 17.9	1.550	2.487	9.9	20.6
4 1	10 29.17	+11 36.3	1.611	2.484	13.9	20.8

40511 1999 RE_{88} 3 1.9 276°.83 0°.0/ 1.9 17 R

1 22	11 18.41	+ 5 3.0	1.681	2.457	17.1	19.8
2 1	11 15.45	+ 5 14.9	1.575	2.439	13.9	19.5
2 11	11 9.71	+ 5 43.0	1.489	2.421	9.8	19.2
2 21	11 1.59	+ 6 24.4	1.427	2.402	5.1	18.9
3 2	10 51.92	+ 7 13.8	1.392	2.383	0.0	18.4
3 12	10 41.94	+ 8 3.8	1.385	2.365	5.3	18.8
3 22	10 32.93	+ 8 47.3	1.404	2.346	10.3	19.0
4 1	10 26.01	+ 9 18.4	1.447	2.327	14.8	19.3

286423 2001 YT_{154} 3 1.9 76°.38 12°.5/18.4 18

1 22	11 21.14	−34 48.7	2.690	3.157	17.1	20.1
2 1	11 16.91	−36 41.1	2.602	3.165	16.2	20.0
2 11	11 10.33	−38 11.4	2.527	3.173	15.1	19.9
2 21	11 1.77	−39 14.4	2.469	3.182	14.1	19.8
3 2	10 51.93	−39 45.7	2.430	3.190	13.1	19.7
3 12	10 41.80	−39 44.2	2.412	3.198	12.6	19.7
3 22	10 32.40	−39 12.1	2.414	3.206	12.5	19.7
4 1	10 24.67	−38 14.5	2.438	3.214	12.9	19.7

354931 2006 DR_{186} 3 1.9 251°.41 2°.1/29.2 17

1 22	11 19.69	+ 9 18.2	1.832	2.612	15.8	21.3
2 1	11 16.23	+ 9 58.4	1.726	2.595	12.6	21.0
2 11	11 10.11	+10 52.5	1.642	2.578	8.7	20.7
2 21	11 1.74	+11 55.6	1.583	2.559	4.5	20.4
3 2	10 51.93	+13 0.4	1.553	2.541	2.3	20.2
3 12	10 41.85	+13 58.8	1.551	2.521	6.2	20.4
3 22	10 32.70	+14 43.9	1.575	2.501	10.7	20.7
4 1	10 25.52	+15 11.6	1.624	2.481	14.7	20.9

420972 2013 PX_{18} 3 1.9 104°.97 3°.0/ 4.6 18

1 22	11 21.94	− 2 1.3	2.153	2.874	15.5	21.3
2 1	11 17.15	− 2 27.8	2.068	2.891	12.7	21.1
2 11	11 10.17	− 2 39.5	2.005	2.908	9.5	21.0
2 21	11 1.50	− 2 37.0	1.967	2.924	6.0	20.8
3 2	10 51.94	− 2 22.2	1.958	2.940	3.2	20.6
3 12	10 42.44	− 1 58.9	1.978	2.955	4.3	20.7
3 22	10 33.92	− 1 31.8	2.027	2.971	7.5	20.9
4 1	10 27.12	− 1 5.5	2.103	2.985	10.8	21.2

21482 Patashnick 3 1.9 283°.58 1°.8/29.5 18

1 22	11 16.65	+ 7 58.1	1.629	2.420	17.0	18.5
2 1	11 14.16	+ 8 37.5	1.526	2.400	13.6	18.2
2 11	11 8.87	+ 9 33.7	1.443	2.381	9.5	17.9
2 21	11 1.18	+10 41.9	1.384	2.362	4.8	17.6
3 2	10 51.93	+11 54.5	1.353	2.342	2.0	17.3
3 12	10 42.37	+13 1.9	1.348	2.322	6.4	17.6
3 22	10 33.81	+13 56.0	1.370	2.302	11.3	17.8
4 1	10 27.37	+14 31.4	1.414	2.283	15.8	18.0

185497 2007 RJ_{260} 3 1.9 48°.29 1°.6/ 3.2 18

1 22	11 16.82	+ 0 55.8	1.418	2.196	19.7	20.9
2 1	11 14.23	+ 1 3.7	1.347	2.209	15.9	20.6
2 11	11 8.74	+ 1 33.1	1.295	2.222	11.4	20.4
2 21	11 0.96	+ 2 21.2	1.265	2.236	6.3	20.1
3 2	10 51.94	+ 3 21.8	1.260	2.250	1.7	19.9
3 12	10 43.05	+ 4 26.0	1.283	2.265	5.0	20.1
3 22	10 35.53	+ 5 25.4	1.330	2.280	10.0	20.5
4 1	10 30.35	+ 6 13.0	1.401	2.295	14.3	20.7

42889 1999 RW_{164} 3 1.9 249°.52 1°.7/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 20.16	+ 1 48.5	1.774	2.531	17.1	19.2
2 1	11 16.59	+ 1 38.7	1.672	2.521	14.0	18.9
2 11	11 10.33	+ 1 44.8	1.590	2.511	10.2	18.7
2 21	11 1.83	+ 2 5.4	1.532	2.501	5.8	18.4
3 2	10 51.94	+ 2 37.0	1.502	2.491	1.8	18.1
3 12	10 41.84	+ 3 14.2	1.499	2.480	4.7	18.3
3 22	10 32.73	+ 3 50.7	1.524	2.469	9.3	18.5
4 1	10 25.63	+ 4 20.9	1.573	2.458	13.6	18.7

494998 2010 JR_{31} 3 1.9 264°.55 1°.5/29.8 17

1 22	11 19.53	+ 7 54.2	1.679	2.461	16.9	22.5
2 1	11 16.38	+ 8 23.3	1.573	2.443	13.6	22.2
2 11	11 10.39	+ 9 7.9	1.489	2.424	9.5	21.9
2 21	11 1.96	+10 3.5	1.428	2.405	4.8	21.6
3 2	10 51.94	+11 3.1	1.395	2.385	1.6	21.3
3 12	10 41.60	+11 58.5	1.390	2.365	6.1	21.6
3 22	10 32.25	+12 42.1	1.412	2.345	11.0	21.8
4 1	10 25.05	+13 9.1	1.456	2.324	15.5	22.0

154635 2003 YX 3 1.9 29°.14 20°.3/12.6 18

1 22	11 25.68	−22 41.9	1.100	1.775	29.7	19.1
2 1	11 23.25	−26 16.6	1.034	1.778	27.5	19.0
2 11	11 16.48	−29 23.3	0.980	1.782	25.1	18.8
2 21	11 5.64	−31 47.1	0.941	1.786	22.8	18.6
3 2	10 51.93	−33 13.2	0.918	1.791	21.0	18.5
3 12	10 37.51	−33 35.2	0.911	1.797	20.3	18.5
3 22	10 24.83	−32 57.3	0.922	1.802	20.9	18.5
4 1	10 15.90	−31 33.8	0.949	1.809	22.4	18.6

448142 2008 SG_{137} 3 1.9 152°.33 2°.2/29.0 18

1 22	11 24.40	+10 50.1	2.059	2.825	14.7	22.7
2 1	11 19.27	+11 29.2	1.976	2.838	11.6	22.6
2 11	11 11.73	+12 17.9	1.917	2.849	8.0	22.3
2 21	11 2.34	+13 10.9	1.884	2.859	4.1	22.1
3 2	10 51.95	+14 1.6	1.881	2.868	2.3	22.0
3 12	10 41.64	+14 43.9	1.909	2.876	5.6	22.2
3 22	10 32.42	+15 13.2	1.965	2.883	9.3	22.5
4 1	10 25.10	+15 27.4	2.046	2.889	12.7	22.7

208278 2001 AH_{49} 3 1.9 83°.22 1°.5/29.9 18

1 22	11 21.06	+ 8 1.5	1.582	2.366	17.7	20.6
2 1	11 17.21	+ 8 32.4	1.514	2.384	13.9	20.4
2 11	11 10.58	+ 9 17.2	1.467	2.402	9.6	20.2
2 21	11 1.81	+10 10.4	1.444	2.420	4.8	19.9
3 2	10 51.95	+11 4.5	1.448	2.438	1.6	19.7
3 12	10 42.30	+11 51.6	1.481	2.456	5.8	20.1
3 22	10 34.03	+12 26.0	1.540	2.473	10.3	20.4
4 1	10 28.02	+12 44.4	1.622	2.490	14.1	20.6

365100 2009 BG_{159} 3 1.9 3°.80 0°.4/ 2.3 16

1 22	11 14.85	+ 3 58.3	1.297	2.096	20.1	21.4
2 1	11 13.12	+ 4 7.4	1.218	2.095	16.2	21.1
2 11	11 8.28	+ 4 37.0	1.158	2.095	11.4	20.8
2 21	11 0.87	+ 5 23.6	1.120	2.096	6.0	20.5
3 2	10 51.96	+ 6 20.3	1.106	2.097	0.4	20.1
3 12	10 43.01	+ 7 17.8	1.118	2.100	5.7	20.5
3 22	10 35.45	+ 8 7.1	1.154	2.103	11.2	20.8
4 1	10 30.40	+ 8 41.6	1.211	2.107	15.9	21.1

61611 2000 QR_{96} 3 1.9 141°.91 1°.1/29.8 18

1 22	11 18.11	+ 7 41.2	2.392	3.153	13.0	20.4
2 1	11 13.97	+ 8 19.5	2.306	3.164	10.3	20.2
2 11	11 7.88	+ 9 8.3	2.245	3.175	7.0	20.0
2 21	11 0.32	+10 3.4	2.210	3.186	3.5	19.8
3 2	10 51.97	+10 59.7	2.206	3.196	1.2	19.6
3 12	10 43.66	+11 51.6	2.232	3.205	4.3	19.9
3 22	10 36.17	+12 34.5	2.287	3.214	7.8	20.1
4 1	10 30.17	+13 5.5	2.368	3.222	10.8	20.3

192130 2006 DZ_{101} 3 1.9 103°.12 1°.1/29.9 18

1 22	11 16.00	+ 6 52.1	2.105	2.877	14.3	20.8
2 1	11 12.60	+ 7 34.2	2.024	2.887	11.3	20.6
2 11	11 7.09	+ 8 28.9	1.965	2.898	7.7	20.4
2 21	10 59.96	+ 9 31.7	1.933	2.909	3.8	20.2
3 2	10 51.97	+10 36.6	1.930	2.920	1.2	20.0
3 12	10 44.03	+11 36.9	1.956	2.930	4.7	20.3
3 22	10 37.00	+12 27.2	2.010	2.940	8.4	20.5
4 1	10 31.59	+13 3.9	2.089	2.950	11.7	20.8

349980 2010 EH_{110} 3 1.9 13°.23 0°.3/ 1.8 18

1 22	11 17.54	+ 6 1.4	1.222	2.027	20.7	21.0
2 1	11 15.45	+ 6 7.7	1.148	2.029	16.6	20.7
2 11	11 10.00	+ 6 32.6	1.092	2.031	11.6	20.4
2 21	11 1.78	+ 7 12.1	1.057	2.034	6.0	20.1
3 2	10 51.97	+ 7 58.5	1.046	2.037	0.4	19.7
3 12	10 42.18	+ 8 42.7	1.061	2.042	6.2	20.2
3 22	10 33.95	+ 9 16.6	1.099	2.047	11.8	20.5
4 1	10 28.44	+ 9 34.7	1.159	2.052	16.7	20.8

362111 2009 CR_{39} 3 1.9 289°.54 1°.0/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 15.05	+ 4 58.0	1.560	2.347	17.7	20.8
2 1	11 12.85	+ 5 43.9	1.468	2.341	14.2	20.6
2 11	11 7.88	+ 6 50.0	1.398	2.334	9.9	20.3
2 21	11 0.62	+ 8 11.7	1.351	2.327	5.0	20.0
3 2	10 51.97	+ 9 40.5	1.330	2.321	1.1	19.7
3 12	10 43.17	+11 6.3	1.337	2.315	5.9	20.0
3 22	10 35.48	+12 19.8	1.370	2.308	10.9	20.3
4 1	10 29.94	+13 14.4	1.426	2.302	15.3	20.5

372394 2009 QW_{34} 3 1.9 160°.85 10°.2/11.5 14 C

1 22	11 20.85	−21 18.5	2.187	2.793	18.1	21.1
2 1	11 16.79	−22 45.0	2.090	2.796	16.4	20.9
2 11	11 10.29	−23 49.8	2.010	2.798	14.4	20.8
2 21	11 1.77	−24 28.1	1.949	2.801	12.3	20.6
3 2	10 51.98	−24 36.4	1.912	2.803	10.7	20.5
3 12	10 41.96	−24 15.1	1.899	2.805	10.2	20.5
3 22	10 32.78	−23 28.3	1.912	2.806	10.9	20.5
4 1	10 25.39	−22 23.1	1.949	2.808	12.5	20.6

178924 2001 QR_{27} 3 1.9 178°.64 0°.2/ 2.2 18

1 22	11 19.41	+ 4 8.1	2.669	3.408	12.4	21.5
2 1	11 14.83	+ 4 28.2	2.569	3.411	9.9	21.4
2 11	11 8.43	+ 4 59.3	2.491	3.412	7.0	21.2
2 21	11 0.61	+ 5 38.7	2.442	3.413	3.6	20.9
3 2	10 51.99	+ 6 22.8	2.422	3.413	0.2	20.7
3 12	10 43.33	+ 7 7.0	2.434	3.413	3.5	20.9
3 22	10 35.37	+ 7 47.2	2.477	3.411	6.8	21.1
4 1	10 28.74	+ 8 19.9	2.547	3.409	9.8	21.3

89778 2002 AK_{94} 3 1.9 240°.15 4°.7/ 6.1 17

1 22	11 19.19	− 6 56.5	2.248	2.947	15.5	20.2
2 1	11 15.26	− 7 31.4	2.134	2.936	13.1	20.0
2 11	11 9.11	− 7 50.0	2.041	2.924	10.3	19.7
2 21	11 1.13	− 7 51.0	1.972	2.912	7.3	19.5
3 2	10 51.99	− 7 34.9	1.930	2.899	5.0	19.4
3 12	10 42.63	− 7 4.4	1.917	2.886	5.3	19.4
3 22	10 33.97	− 6 24.2	1.932	2.873	8.0	19.5
4 1	10 26.88	− 5 40.1	1.973	2.859	11.2	19.7

82111 2001 FP_{50} 3 1.9 291°.66 0°.6/ 2.4 17

1 22	11 17.33	+ 3 55.2	1.663	2.438	17.3	19.4
2 1	11 14.70	+ 4 0.5	1.552	2.415	14.1	19.1
2 11	11 9.28	+ 4 22.6	1.462	2.391	10.1	18.8
2 21	11 1.45	+ 4 59.4	1.394	2.368	5.4	18.4
3 2	10 51.99	+ 5 46.3	1.353	2.344	0.6	18.0
3 12	10 42.15	+ 6 36.1	1.340	2.321	5.2	18.3
3 22	10 33.20	+ 7 21.6	1.353	2.297	10.3	18.5
4 1	10 26.34	+ 7 56.3	1.389	2.274	15.0	18.7

317061 2001 SK_{117} 3 1.9 180°.69 1°.8/ 3.9 17

1 22	11 17.09	− 0 1.9	2.603	3.331	12.9	20.9
2 1	11 13.08	− 0 8.5	2.501	3.331	10.5	20.8
2 11	11 7.26	− 0 3.0	2.422	3.332	7.7	20.6
2 21	11 0.03	+ 0 13.5	2.369	3.332	4.6	20.4
3 2	10 52.00	+ 0 38.5	2.345	3.331	2.0	20.2
3 12	10 43.92	+ 1 8.6	2.351	3.331	3.4	20.3
3 22	10 36.51	+ 1 39.6	2.387	3.330	6.6	20.5
4 1	10 30.43	+ 2 7.9	2.450	3.329	9.6	20.7

497832 2006 UV_{29} 3 1.9 135°.77 1°.6/ 4.1 17

1 22	11 14.21	− 1 27.6	2.906	3.627	11.8	23.1
2 1	11 10.55	− 1 13.0	2.812	3.637	9.6	23.0
2 11	11 5.35	− 0 45.6	2.740	3.648	7.0	22.8
2 21	10 58.99	− 0 7.3	2.696	3.657	4.2	22.6
3 2	10 52.00	+ 0 39.3	2.681	3.667	1.8	22.5
3 12	10 45.02	+ 1 30.0	2.696	3.676	3.0	22.6
3 22	10 38.65	+ 2 20.8	2.742	3.685	5.8	22.8
4 1	10 33.43	+ 3 7.6	2.815	3.693	8.5	23.0

20901 Mattmuehler 3 1.9 262°.58 1°.4/29.9 18

1 22	11 21.02	+ 8 58.4	1.683	2.466	16.8	18.5
2 1	11 17.46	+ 9 12.9	1.585	2.454	13.5	18.2
2 11	11 11.05	+ 9 39.8	1.507	2.442	9.4	18.0
2 21	11 2.26	+10 14.9	1.454	2.430	4.8	17.7
3 2	10 52.00	+10 52.0	1.428	2.418	1.5	17.4
3 12	10 41.54	+11 24.1	1.430	2.406	5.8	17.6
3 22	10 32.18	+11 45.4	1.459	2.393	10.6	17.9
4 1	10 24.99	+11 52.3	1.511	2.381	14.9	18.1

463898 2014 UH_{108} 3 1.9 206°.26 6°.1/25.6 16

1 22	11 22.99	+21 24.3	1.903	2.697	14.7	21.8
2 1	11 18.66	+22 26.5	1.820	2.693	11.8	21.6
2 11	11 11.62	+23 31.8	1.760	2.690	8.8	21.4
2 21	11 2.42	+24 31.9	1.727	2.685	6.5	21.2
3 2	10 52.00	+25 18.0	1.721	2.681	6.6	21.2
3 12	10 41.59	+25 43.3	1.743	2.676	9.1	21.4
3 22	10 32.35	+25 45.2	1.790	2.670	12.3	21.5
4 1	10 25.25	+25 23.9	1.860	2.664	15.3	21.7

435937 2009 BS_{179} 3 1.9 58°.33 1°.8/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 12.95	+ 7 21.0	2.036	2.817	14.4	20.9
2 1	11 10.26	+ 8 33.6	1.962	2.833	11.2	20.7
2 11	11 5.50	+10 0.1	1.911	2.848	7.6	20.5
2 21	10 59.17	+11 34.3	1.888	2.864	3.8	20.3
3 2	10 52.00	+13 8.5	1.893	2.880	2.0	20.2
3 12	10 44.91	+14 34.6	1.927	2.897	5.3	20.5
3 22	10 38.74	+15 46.5	1.990	2.913	8.9	20.7
4 1	10 34.16	+16 40.3	2.077	2.929	12.1	21.0

23773 Sarugaku 3 1.9 156°.37 6°.0/24.5 18

1 22	11 19.61	+20 20.9	2.030	2.826	13.9	18.5
2 1	11 15.74	+21 55.4	1.958	2.833	11.0	18.3
2 11	11 9.45	+23 34.5	1.909	2.839	8.1	18.1
2 21	11 1.25	+25 9.3	1.888	2.844	6.2	18.0
3 2	10 52.01	+26 30.4	1.895	2.850	6.6	18.1
3 12	10 42.79	+27 30.5	1.931	2.854	9.0	18.2
3 22	10 34.63	+28 6.1	1.992	2.858	11.8	18.4
4 1	10 28.37	+28 16.8	2.075	2.861	14.5	18.6

44620 1999 RS_{43} 3 1.9 148°.22 1°.0/ 2.8 18

1 22	11 20.51	+ 0 53.8	1.711	2.466	17.7	19.7
2 1	11 16.75	+ 1 22.3	1.626	2.476	14.3	19.4
2 11	11 10.32	+ 2 11.1	1.562	2.485	10.2	19.2
2 21	11 1.77	+ 3 16.7	1.522	2.493	5.5	18.9
3 2	10 52.01	+ 4 33.0	1.510	2.500	1.1	18.6
3 12	10 42.26	+ 5 51.5	1.526	2.507	4.7	18.9
3 22	10 33.67	+ 7 3.9	1.570	2.513	9.4	19.2
4 1	10 27.18	+ 8 3.6	1.639	2.518	13.5	19.5

118096 2125 T-3 3 1.9 172°.28 0°.3/ 1.7 18

1 22	11 21.80	+ 6 13.7	1.951	2.713	15.6	21.0
2 1	11 17.46	+ 6 26.8	1.859	2.716	12.4	20.8
2 11	11 10.65	+ 6 52.6	1.790	2.718	8.7	20.5
2 21	11 1.89	+ 7 27.5	1.746	2.720	4.4	20.3
3 2	10 52.01	+ 8 6.5	1.730	2.721	0.3	19.9
3 12	10 42.11	+ 8 43.7	1.744	2.722	4.7	20.3
3 22	10 33.23	+ 9 14.0	1.787	2.722	8.9	20.5
4 1	10 26.25	+ 9 33.5	1.854	2.722	12.7	20.8

229747 2007 JV_{18} 3 1.9 183°.90 2°.7/27.8 17

1 22	11 17.04	+13 8.3	2.502	3.279	12.1	21.2
2 1	11 13.16	+14 0.3	2.411	3.279	9.5	21.0
2 11	11 7.38	+14 59.7	2.344	3.279	6.6	20.8
2 21	11 0.12	+16 1.5	2.305	3.278	3.7	20.6
3 2	10 52.02	+17 0.0	2.296	3.277	2.9	20.6
3 12	10 43.89	+17 49.5	2.317	3.275	5.5	20.7
3 22	10 36.52	+18 26.1	2.366	3.273	8.5	20.9
4 1	10 30.57	+18 47.7	2.441	3.271	11.3	21.1

275008 2009 TY_{46} 3 1.9 75°.98 2°.6/29.0 18

1 22	11 23.46	+13 30.5	1.878	2.659	15.4	20.5
2 1	11 18.68	+13 43.9	1.805	2.674	12.1	20.3
2 11	11 11.38	+14 3.6	1.754	2.689	8.3	20.1
2 21	11 2.17	+14 24.6	1.729	2.703	4.4	19.9
3 2	10 52.02	+14 41.2	1.732	2.718	2.7	19.9
3 12	10 42.06	+14 48.6	1.765	2.733	5.9	20.1
3 22	10 33.35	+14 43.9	1.825	2.747	9.6	20.3
4 1	10 26.69	+14 26.2	1.909	2.762	13.0	20.6

4555 Josefapérez 3 1.9 235°.11 0°.3/ 1.8 18

1 22	11 18.09	+ 3 24.7	1.842	2.606	16.3	18.3
2 1	11 14.91	+ 4 8.0	1.736	2.593	13.1	18.0
2 11	11 9.17	+ 5 10.7	1.651	2.580	9.3	17.8
2 21	11 1.28	+ 6 29.1	1.591	2.565	4.8	17.5
3 2	10 52.02	+ 7 56.6	1.559	2.550	0.3	17.1
3 12	10 42.50	+ 9 24.4	1.557	2.535	5.1	17.4
3 22	10 33.88	+10 43.8	1.582	2.518	9.8	17.6
4 1	10 27.14	+11 48.2	1.632	2.501	14.0	17.9

283597 2001 YE_{58} 3 1.9 119°.96 2°.6/ 4.1 18

1 22	11 21.51	− 1 38.4	1.758	2.498	17.8	21.3
2 1	11 17.38	− 1 39.9	1.677	2.514	14.6	21.1
2 11	11 10.66	− 1 22.1	1.616	2.529	10.7	20.9
2 21	11 1.89	− 0 46.4	1.580	2.543	6.4	20.7
3 2	10 52.02	+ 0 3.1	1.570	2.557	2.8	20.5
3 12	10 42.22	+ 0 59.8	1.589	2.570	4.6	20.7
3 22	10 33.60	+ 1 56.7	1.636	2.582	8.7	20.9
4 1	10 27.04	+ 2 47.1	1.708	2.594	12.6	21.2

437615 2014 BJ_{16} 3 1.9 107°.50 2°.8/ 4.9 17

1 22	11 19.07	− 2 43.7	2.548	3.260	13.5	21.5
2 1	11 14.58	− 3 4.6	2.459	3.275	11.2	21.3
2 11	11 8.24	− 3 12.3	2.392	3.290	8.4	21.2
2 21	11 0.51	− 3 7.4	2.350	3.304	5.4	21.0
3 2	10 52.02	− 2 51.6	2.338	3.318	3.0	20.9
3 12	10 43.58	− 2 28.2	2.356	3.332	3.8	20.9
3 22	10 35.90	− 2 1.1	2.403	3.346	6.5	21.1
4 1	10 29.64	− 1 34.3	2.478	3.359	9.4	21.3

70634 1999 TR_{223} 3 1.9 156°.22 5°.0/25.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 22.75	+19 23.3	2.211	2.994	13.3	20.8
2 1	11 17.91	+20 30.1	2.135	3.004	10.5	20.6
2 11	11 10.78	+21 40.7	2.083	3.013	7.6	20.4
2 21	11 1.87	+22 47.7	2.059	3.020	5.3	20.3
3 2	10 52.02	+23 43.6	2.064	3.028	5.3	20.3
3 12	10 42.25	+24 22.7	2.098	3.034	7.6	20.5
3 22	10 33.52	+24 42.0	2.160	3.039	10.5	20.7
4 1	10 26.60	+24 41.1	2.245	3.044	13.2	20.8

65466 2002 XR_{21} 3 1.9 1°.19 2°.8/28.9 18

1 22	11 15.11	+11 2.8	1.358	2.172	18.5	18.7
2 1	11 13.22	+11 32.2	1.282	2.170	14.7	18.4
2 11	11 8.28	+12 15.0	1.225	2.169	10.1	18.2
2 21	11 0.86	+13 4.7	1.191	2.169	5.3	17.9
3 2	10 52.02	+13 52.7	1.183	2.170	3.0	17.8
3 12	10 43.21	+14 30.1	1.199	2.172	7.2	18.0
3 22	10 35.78	+14 50.6	1.240	2.175	12.0	18.3
4 1	10 30.79	+14 51.4	1.302	2.179	16.4	18.5

422175 2014 RJ_{19} 3 1.9 95°.86 3°.6/28.2 18

1 22	11 25.30	+15 44.5	1.860	2.643	15.5	21.8
2 1	11 20.12	+16 14.0	1.792	2.662	12.2	21.6
2 11	11 12.35	+16 48.5	1.748	2.682	8.4	21.4
2 21	11 2.65	+17 21.9	1.729	2.701	4.9	21.3
3 2	10 52.02	+17 47.6	1.739	2.719	3.8	21.2
3 12	10 41.66	+18 0.3	1.778	2.738	6.7	21.4
3 22	10 32.64	+17 57.5	1.844	2.755	10.2	21.7
4 1	10 25.75	+17 39.0	1.934	2.773	13.5	21.9

31940 Sutthiluk 3 1.9 249°.27 0°.8/ 1.3 18

1 22	11 17.94	+ 5 11.0	1.682	2.460	17.1	19.7
2 1	11 15.05	+ 5 50.9	1.581	2.447	13.7	19.4
2 11	11 9.42	+ 6 49.6	1.499	2.433	9.6	19.1
2 21	11 1.46	+ 8 3.1	1.443	2.419	4.9	18.8
3 2	10 52.02	+ 9 24.0	1.413	2.404	0.9	18.5
3 12	10 42.32	+10 43.1	1.412	2.389	5.7	18.8
3 22	10 33.61	+11 51.5	1.438	2.373	10.6	19.0
4 1	10 26.97	+12 43.1	1.487	2.358	15.0	19.3

341286 2007 RN_{293} 3 1.9 84°.03 0°.7/ 2.8 17

1 22	11 13.73	+ 1 40.2	2.221	2.974	14.2	21.1
2 1	11 10.75	+ 2 9.3	2.130	2.979	11.4	20.9
2 11	11 5.81	+ 2 53.7	2.061	2.985	8.1	20.7
2 21	10 59.34	+ 3 50.5	2.019	2.990	4.3	20.5
3 2	10 52.03	+ 4 55.0	2.005	2.995	0.8	20.2
3 12	10 44.70	+ 6 1.0	2.020	3.000	3.7	20.5
3 22	10 38.18	+ 7 2.8	2.064	3.006	7.5	20.7
4 1	10 33.13	+ 7 55.2	2.134	3.011	10.8	20.9

216035 2006 BA_{168} 3 1.9 68°.94 1°.4/29.9 18

1 22	11 18.53	+ 6 2.0	1.372	2.166	19.4	20.7
2 1	11 15.65	+ 6 50.9	1.308	2.184	15.3	20.5
2 11	11 9.74	+ 7 59.1	1.264	2.202	10.5	20.3
2 21	11 1.49	+ 9 19.6	1.243	2.220	5.2	20.0
3 2	10 52.02	+10 42.8	1.248	2.238	1.5	19.8
3 12	10 42.77	+11 57.9	1.281	2.257	6.3	20.2
3 22	10 35.02	+12 56.9	1.338	2.275	11.2	20.5
4 1	10 29.73	+13 35.2	1.418	2.293	15.4	20.8

59612 1999 JZ_{67} 3 1.9 350°.44 3°.4/28.5 18

1 22	11 13.26	+10 6.9	1.216	2.039	19.7	18.4
2 1	11 12.17	+10 59.3	1.140	2.033	15.6	18.1
2 11	11 7.82	+12 10.2	1.082	2.029	10.8	17.8
2 21	11 0.73	+13 31.7	1.047	2.025	5.7	17.5
3 2	10 52.02	+14 52.3	1.036	2.022	3.7	17.4
3 12	10 43.25	+15 59.9	1.049	2.021	8.2	17.6
3 22	10 35.94	+16 45.5	1.086	2.020	13.5	17.9
4 1	10 31.28	+17 5.0	1.142	2.020	18.1	18.2

160744 2000 RO_{91} 3 1.9 139°.20 0°.8/ 2.7 18

1 22	11 21.01	+ 1 58.6	2.017	2.763	15.6	21.3
2 1	11 16.64	+ 2 20.1	1.933	2.777	12.6	21.1
2 11	11 9.96	+ 2 57.5	1.869	2.790	8.9	20.9
2 21	11 1.49	+ 3 47.7	1.832	2.802	4.8	20.7
3 2	10 52.05	+ 4 45.7	1.824	2.814	0.9	20.4
3 12	10 42.65	+ 5 45.1	1.845	2.825	4.1	20.7
3 22	10 34.28	+ 6 39.6	1.895	2.835	8.2	20.9
4 1	10 27.71	+ 7 24.4	1.971	2.844	11.8	21.2

155650 2000 GK_{92} 3 1.9 216°.39 1°.0/ 2.9 18

1 22	11 18.02	+ 0 17.7	1.811	2.564	16.9	20.1
2 1	11 14.83	+ 0 50.6	1.709	2.557	13.8	19.9
2 11	11 9.09	+ 1 44.5	1.628	2.550	9.9	19.6
2 21	11 1.22	+ 2 56.8	1.571	2.542	5.4	19.4
3 2	10 52.05	+ 4 21.9	1.543	2.533	1.1	19.0
3 12	10 42.68	+ 5 51.1	1.543	2.524	4.6	19.3
3 22	10 34.25	+ 7 15.6	1.571	2.513	9.3	19.5
4 1	10 27.74	+ 8 28.0	1.624	2.503	13.6	19.7

182718 2001 WR_{47} 3 1.9 124°.05 4°.2/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 15.89	− 9 6.6	2.158	2.856	16.1	21.0
2 1	11 12.52	− 8 57.3	2.067	2.868	13.5	20.8
2 11	11 7.08	− 8 26.1	1.997	2.880	10.5	20.7
2 21	11 0.02	− 7 33.4	1.950	2.891	7.3	20.5
3 2	10 52.06	− 6 22.0	1.930	2.902	4.6	20.3
3 12	10 44.12	− 4 57.8	1.939	2.913	4.7	20.4
3 22	10 37.04	− 3 28.2	1.977	2.923	7.4	20.5
4 1	10 31.55	− 2 0.8	2.042	2.933	10.6	20.8

519978 2013 TD_{167} 3 1.9 174°.08 1°.3/ 3.3 17

1 22	11 17.17	+ 1 1.9	2.379	3.117	13.7	22.2
2 1	11 13.35	+ 1 10.5	2.280	3.119	11.1	22.1
2 11	11 7.56	+ 1 32.6	2.204	3.121	8.0	21.9
2 21	11 0.25	+ 2 6.5	2.154	3.122	4.5	21.6
3 2	10 52.07	+ 2 48.6	2.134	3.123	1.4	21.4
3 12	10 43.84	+ 3 34.3	2.143	3.123	3.6	21.6
3 22	10 36.36	+ 4 18.6	2.181	3.123	7.1	21.8
4 1	10 30.34	+ 4 57.2	2.246	3.123	10.4	22.0

378891 2008 UV_{10} 3 1.9 232°.47 1°.5/29.6 17

1 22	11 19.52	+10 17.8	2.289	3.058	13.3	21.2
2 1	11 15.37	+10 37.7	2.187	3.049	10.6	21.0
2 11	11 9.08	+11 6.2	2.107	3.040	7.3	20.8
2 21	11 1.08	+11 39.3	2.055	3.030	3.7	20.5
3 2	10 52.07	+12 12.4	2.032	3.021	1.6	20.3
3 12	10 42.96	+12 40.3	2.039	3.010	4.8	20.6
3 22	10 34.66	+12 59.1	2.074	3.000	8.5	20.8
4 1	10 27.93	+13 6.2	2.135	2.989	11.8	20.9

39386 4039 *P–L* 3 1.9 209°.59 0°.6/ 2.6 18

1 22	11 19.64	+ 2 22.6	2.111	2.858	15.0	20.6
2 1	11 15.69	+ 2 44.8	2.006	2.851	12.1	20.4
2 11	11 9.45	+ 3 22.7	1.922	2.844	8.7	20.2
2 21	11 1.33	+ 4 13.6	1.864	2.835	4.7	19.9
3 2	10 52.07	+ 5 13.1	1.836	2.826	0.7	19.6
3 12	10 42.65	+ 6 14.7	1.837	2.817	4.2	19.8
3 22	10 34.06	+ 7 12.2	1.867	2.806	8.4	20.1
4 1	10 27.16	+ 8 0.3	1.923	2.794	12.1	20.3

410345 2007 UR_{103} 3 1.9 48°.76 0°.9/ 2.7 18

1 22	11 16.61	+ 2 3.8	1.439	2.221	19.3	21.2
2 1	11 14.07	+ 2 20.5	1.367	2.232	15.5	21.0
2 11	11 8.65	+ 2 58.0	1.314	2.245	11.0	20.7
2 21	11 0.97	+ 3 52.8	1.284	2.258	5.9	20.5
3 2	10 52.07	+ 4 58.1	1.280	2.271	1.0	20.2
3 12	10 43.27	+ 6 4.7	1.302	2.284	5.1	20.5
3 22	10 35.82	+ 7 4.4	1.350	2.298	10.0	20.8
4 1	10 30.66	+ 7 50.5	1.421	2.312	14.4	21.1

113174 2002 RU_{102} 3 1.9 121°.04 0°.7/ 1.2 18

1 22	11 16.92	+ 7 9.9	2.708	3.463	11.8	20.6
2 1	11 12.75	+ 7 39.1	2.626	3.480	9.3	20.4
2 11	11 6.91	+ 8 17.2	2.568	3.496	6.4	20.3
2 21	10 59.82	+ 9 1.0	2.537	3.512	3.2	20.1
3 2	10 52.08	+ 9 46.2	2.537	3.527	0.7	19.9
3 12	10 44.41	+10 28.5	2.568	3.542	3.7	20.1
3 22	10 37.47	+11 4.1	2.628	3.557	6.8	20.4
4 1	10 31.82	+11 30.3	2.715	3.571	9.5	20.6

68557 2001 XF_{109} 3 1.9 292°.17 5°.5/26.7 18

1 22	11 18.12	+15 52.0	1.503	2.314	17.2	18.7
2 1	11 15.73	+16 55.8	1.407	2.293	13.7	18.4
2 11	11 10.22	+18 11.7	1.331	2.272	9.8	18.1
2 21	11 2.02	+19 31.0	1.280	2.252	6.3	17.9
3 2	10 52.07	+20 42.7	1.255	2.231	6.0	17.8
3 12	10 41.81	+21 36.0	1.256	2.210	9.5	17.9
3 22	10 32.72	+22 3.9	1.280	2.190	14.0	18.1
4 1	10 26.05	+22 4.1	1.326	2.169	18.2	18.3

365872 2011 UC_{295} 3 1.9 129°.30 0°.7/ 2.6 18

1 22	11 18.35	+ 1 40.9	1.723	2.485	17.3	21.2
2 1	11 15.02	+ 2 10.0	1.639	2.493	13.9	21.0
2 11	11 9.12	+ 2 58.5	1.576	2.502	9.9	20.7
2 21	11 1.18	+ 4 2.8	1.538	2.510	5.3	20.5
3 2	10 52.08	+ 5 16.7	1.527	2.517	0.8	20.2
3 12	10 43.00	+ 6 31.8	1.544	2.525	4.7	20.5
3 22	10 35.05	+ 7 40.3	1.589	2.531	9.2	20.7
4 1	10 29.10	+ 8 35.9	1.658	2.538	13.3	21.0

277172 2005 *OB* 3 1.9 236°.96 2°.8/ 4.2 17

1 22	11 23.48	− 2 8.1	2.050	2.772	16.1	22.2
2 1	11 19.04	− 2 14.7	1.928	2.752	13.5	22.0
2 11	11 12.03	− 2 4.2	1.826	2.731	10.1	21.7
2 21	11 2.80	− 1 36.6	1.750	2.709	6.3	21.5
3 2	10 52.09	− 0 54.1	1.701	2.686	3.0	21.2
3 12	10 40.96	− 0 1.6	1.683	2.661	4.6	21.3
3 22	10 30.57	+ 0 54.5	1.693	2.636	8.8	21.4
4 1	10 21.97	+ 1 47.6	1.730	2.608	12.9	21.6

467174 2016 EU_{110} 3 1.9 91°.87 6°.2/ 8.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
1 22	11 14.53	−12 27.4	1.734	2.435	19.3	20.9
2 1	11 12.12	−12 35.0	1.644	2.440	16.7	20.7
2 11	11 7.20	−12 14.4	1.570	2.445	13.4	20.5
2 21	11 0.24	−11 24.0	1.518	2.449	9.9	20.3
3 2	10 52.08	−10 5.5	1.490	2.454	6.9	20.1
3 12	10 43.86	− 8 25.5	1.489	2.458	6.5	20.1
3 22	10 36.66	− 6 33.9	1.515	2.463	9.1	20.3
4 1	10 31.42	− 4 41.6	1.566	2.467	12.6	20.5

179932 2002 VL_{78} 3 2.0 131°.77 0°.6/ 1.4 18

2 1	11 14.71	+ 6 11.9	1.922	2.781	12.0	20.6
2 11	11 8.66	+ 7 2.0	1.861	2.792	8.3	20.4
2 21	11 0.85	+ 8 1.7	1.827	2.802	4.2	20.1
3 2	10 52.09	+ 9 5.1	1.821	2.812	0.7	19.9
3 12	10 43.38	+10 5.3	1.845	2.821	4.6	20.2
3 22	10 35.65	+10 56.5	1.897	2.831	8.6	20.4
4 1	10 29.68	+11 34.6	1.974	2.839	12.1	20.7
4 11	10 25.95	+11 57.6	2.073	2.847	15.0	20.9

224566 2005 WA_{192} 3 2.0 54°.27 2°.5/ 4.4 18

2 1	11 11.86	− 3 12.4	1.563	2.406	15.1	20.5
2 11	11 6.86	− 2 22.7	1.513	2.427	11.1	20.3
2 21	10 59.97	− 1 11.6	1.485	2.449	6.6	20.1
3 2	10 52.09	+ 0 14.7	1.484	2.471	2.8	19.9
3 12	10 44.35	+ 1 47.1	1.511	2.493	4.5	20.1
3 22	10 37.79	+ 3 16.5	1.565	2.515	8.6	20.4
4 1	10 33.20	+ 4 34.8	1.643	2.538	12.5	20.6
4 11	10 31.02	+ 5 37.0	1.743	2.560	15.8	20.9

69356 1994 CA_{17} 3 2.0 16°.33 1°.9/29.5 18

2 1	11 14.09	+ 8 50.6	1.348	2.229	14.6	18.8
2 11	11 8.82	+ 9 45.2	1.290	2.230	10.1	18.5
2 21	11 1.15	+10 50.5	1.255	2.232	5.1	18.3
3 2	10 52.09	+11 57.8	1.246	2.235	2.1	18.1
3 12	10 43.04	+12 57.3	1.263	2.238	6.6	18.4
3 22	10 35.31	+13 41.5	1.305	2.241	11.5	18.6
4 1	10 29.94	+14 6.1	1.369	2.244	15.8	18.9
4 11	10 27.50	+14 10.0	1.451	2.248	19.4	19.1

500636 2012 *VH* 3 2.0 156°.24 1°.1/29.6 17

2 1	11 10.38	+ 7 51.9	2.575	3.434	9.3	22.0
2 11	11 5.38	+ 8 55.7	2.507	3.438	6.4	21.8
2 21	10 59.10	+10 6.3	2.467	3.443	3.2	21.6
3 2	10 52.10	+11 18.6	2.458	3.447	1.2	21.4
3 12	10 45.08	+12 27.0	2.479	3.451	4.1	21.6
3 22	10 38.72	+13 26.8	2.530	3.454	7.2	21.8
4 1	10 33.60	+14 14.5	2.607	3.458	10.0	22.0
4 11	10 30.13	+14 48.3	2.706	3.461	12.4	22.2

314681 2006 QL_{136} 3 2.0 231°.97 3°.0/ 4.9 17

2 1	11 14.79	− 4 18.5	2.143	2.960	12.5	21.6
2 11	11 8.81	− 3 57.9	2.047	2.946	9.5	21.3
2 21	11 1.03	− 3 19.6	1.975	2.930	6.1	21.1
3 2	10 52.10	− 2 26.1	1.932	2.914	3.3	20.9
3 12	10 42.94	− 1 22.2	1.919	2.897	4.2	20.9
3 22	10 34.46	− 0 14.0	1.934	2.879	7.7	21.1
4 1	10 27.51	+ 0 51.8	1.977	2.860	11.3	21.3
4 11	10 22.70	+ 1 49.7	2.042	2.841	14.5	21.4

104171 2000 EK_{81} 3 2.0 123°.70 2°.5/29.2 18

2 1	11 20.66	+11 53.5	1.506	2.377	14.0	19.5
2 11	11 13.12	+12 29.7	1.452	2.388	9.6	19.2
2 21	11 3.24	+13 10.4	1.423	2.399	5.0	19.0
3 2	10 52.11	+13 48.1	1.422	2.410	2.7	18.9
3 12	10 41.14	+14 15.6	1.449	2.420	6.5	19.1
3 22	10 31.63	+14 28.4	1.503	2.429	11.0	19.4
4 1	10 24.55	+14 24.6	1.579	2.438	14.9	19.7
4 11	10 20.41	+14 4.8	1.675	2.447	18.2	19.9

374147 2004 TY_{212} 3 2.0 178°.79 5°.5/ 9.2 17

2 1	11 12.05	−15 29.2	2.678	3.425	12.2	21.7
2 11	11 6.57	−15 15.8	2.589	3.427	10.0	21.6
2 21	10 59.73	−14 41.8	2.524	3.428	7.8	21.4
3 2	10 52.11	−13 48.0	2.485	3.429	5.9	21.3
3 12	10 44.42	−12 37.7	2.476	3.429	5.5	21.3
3 22	10 37.35	−11 16.1	2.496	3.428	6.9	21.4
4 1	10 31.54	− 9 49.5	2.544	3.427	9.1	21.5
4 11	10 27.42	− 8 24.1	2.617	3.425	11.4	21.7

26631 2000 GE_{136} 3 2.0 163°.09 1°.3/ 3.7 18

2 1	11 10.48	− 0 33.3	2.563	3.395	10.3	18.6
2 11	11 5.46	+ 0 10.0	2.487	3.399	7.4	18.4
2 21	10 59.16	+ 1 5.7	2.438	3.403	4.3	18.2
3 2	10 52.12	+ 2 10.1	2.418	3.406	1.5	18.0
3 12	10 45.05	+ 3 18.3	2.428	3.409	3.2	18.1
3 22	10 38.63	+ 4 25.0	2.469	3.412	6.4	18.3
4 1	10 33.44	+ 5 25.5	2.537	3.414	9.3	18.5
4 11	10 29.89	+ 6 16.2	2.628	3.416	11.9	18.7