2020	α_{2000}	δ_{2000}	Δ	r	β	V
90785 1994 JU_2			7 11.9 282°.23		6°.2/13.6 18	
	h m	° ′			°	m
6 10	19 48.97	− 7 9.9	1.773	2.629	14.5	19.4
6 20	19 43.69	− 6 30.9	1.690	2.613	11.6	19.1
6 30	19 36.34	− 6 5.4	1.628	2.597	8.6	18.9
7 10	19 27.63	− 5 55.1	1.590	2.581	6.4	18.8
7 20	19 18.48	− 6 0.2	1.578	2.565	6.9	18.7
7 30	19 9.95	− 6 19.7	1.591	2.549	9.5	18.9
8 9	19 3.03	− 6 50.5	1.627	2.533	12.9	19.0
8 19	18 58.40	− 7 28.9	1.684	2.517	16.0	19.2
470630 2008 SM_{42}			7 11.9 320°.84		1°.9/11.5 18	
6 10	19 48.73	−24 57.1	1.332	2.238	15.2	21.4
6 20	19 44.38	−25 17.8	1.249	2.212	11.2	21.1
6 30	19 37.12	−25 40.9	1.186	2.186	6.5	20.8
7 10	19 27.80	−26 2.0	1.146	2.161	2.1	20.4
7 20	19 17.72	−26 16.5	1.130	2.137	5.1	20.5
7 30	19 8.48	−26 21.7	1.138	2.114	10.4	20.8
8 9	19 1.55	−26 17.1	1.166	2.091	15.3	21.0
8 19	18 57.90	−26 4.1	1.213	2.070	19.6	21.2
21302 Shirakamisanchi			7 11.9 341°.88		2°.6/12.5 18	
6 10	19 49.97	−17 21.8	1.206	2.107	16.9	18.1
6 20	19 45.06	−16 59.0	1.142	2.100	12.5	17.8
6 30	19 37.33	−16 44.6	1.098	2.095	7.5	17.6
7 10	19 27.80	−16 37.7	1.076	2.090	3.0	17.3
7 20	19 17.87	−16 36.8	1.078	2.085	5.0	17.4
7 30	19 9.06	−16 40.4	1.103	2.082	10.1	17.7
8 9	19 2.70	−16 46.6	1.148	2.079	15.0	17.9
8 19	18 59.54	−16 54.0	1.213	2.077	19.1	18.2
75458 1999 XS_{147}			7 11.9 64°.46		1°.8/11.4 18	R
6 10	19 52.81	−23 56.6	1.362	2.261	15.5	19.2
6 20	19 46.78	−24 35.5	1.314	2.273	11.1	19.0
6 30	19 38.12	−25 17.0	1.287	2.286	6.3	18.7
7 10	19 27.92	−25 55.6	1.284	2.299	1.9	18.5
7 20	19 17.53	−26 26.6	1.306	2.311	4.8	18.7
7 30	19 8.43	−26 47.2	1.352	2.324	9.5	19.0
8 9	19 1.75	−26 57.5	1.422	2.337	13.7	19.3
8 19	18 58.13	−26 58.9	1.510	2.351	17.2	19.6
231248 2005 YJ_{131}			7 11.9 301°.98		1°.0/12.4 18	
6 10	19 48.80	−17 19.6	1.527	2.418	14.6	20.5
6 20	19 44.06	−17 52.3	1.440	2.395	10.7	20.2
6 30	19 36.79	−18 36.4	1.375	2.372	6.3	19.9
7 10	19 27.75	−19 28.6	1.334	2.349	1.6	19.5
7 20	19 17.99	−20 24.5	1.318	2.327	4.1	19.6
7 30	19 8.87	−21 19.5	1.328	2.304	9.1	19.8
8 9	19 1.64	−22 9.7	1.361	2.282	13.7	20.0
8 19	18 57.22	−22 52.9	1.413	2.261	17.8	20.2
252203 2001 FG_{107}			7 11.9 159°.56		2°.3/10.9 18	
6 10	19 48.87	−28 33.3	2.666	3.544	9.5	20.6
6 20	19 43.06	−29 5.5	2.599	3.547	6.9	20.4
6 30	19 35.74	−29 35.9	2.558	3.551	4.2	20.3
7 10	19 27.51	−30 1.5	2.544	3.554	2.3	20.1
7 20	19 19.11	−30 20.2	2.559	3.556	3.7	20.2
7 30	19 11.30	−30 30.6	2.602	3.559	6.4	20.4
8 9	19 4.79	−30 32.9	2.671	3.561	9.0	20.6
8 19	19 0.06	−30 28.0	2.763	3.563	11.3	20.8
381853 2009 WK_{259}			7 11.9 214°.17		1°.9/12.7 18	
6 10	19 51.01	−15 48.5	2.285	3.150	11.4	22.6
6 20	19 44.76	−15 49.3	2.201	3.141	8.4	22.4
6 30	19 36.78	−15 56.4	2.142	3.132	5.1	22.2
7 10	19 27.71	−16 8.6	2.111	3.123	2.1	21.9
7 20	19 18.33	−16 24.2	2.107	3.112	3.4	22.0
7 30	19 9.52	−16 41.7	2.132	3.101	6.8	22.2
8 9	19 2.08	−16 59.7	2.184	3.090	10.1	22.4
8 19	18 56.59	−17 17.0	2.258	3.077	12.9	22.6
476587 2008 RP_{137}			7 11.9 225°.95		11°.5/17.5 18	
6 10	19 47.69	+ 9 55.1	1.938	2.704	16.7	21.3
6 20	19 42.55	+10 36.6	1.868	2.701	14.9	21.1
6 30	19 35.60	+10 52.7	1.816	2.698	13.1	21.0
7 10	19 27.51	+10 40.0	1.785	2.695	11.9	20.9
7 20	19 19.11	+ 9 57.8	1.776	2.691	11.6	20.9
7 30	19 11.34	+ 8 48.6	1.790	2.688	12.4	21.0
8 9	19 5.04	+ 7 17.9	1.826	2.684	14.0	21.1
8 19	19 0.81	+ 5 32.9	1.883	2.680	16.0	21.2
3790 Raywilson			7 11.9 248°.37		0°.1/11.9 18	
6 10	19 47.86	−21 29.8	2.593	3.469	9.8	18.2
6 20	19 42.39	−21 43.2	2.508	3.457	7.1	18.0
6 30	19 35.41	−21 59.2	2.448	3.444	4.0	17.8
7 10	19 27.47	−22 15.8	2.416	3.432	0.7	17.5
7 20	19 19.27	−22 31.0	2.412	3.419	2.7	17.7
7 30	19 11.56	−22 43.7	2.437	3.407	6.0	17.9
8 9	19 5.05	−22 52.9	2.488	3.393	9.0	18.0
8 19	19 0.24	−22 58.6	2.563	3.380	11.6	18.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
132593 2002 JX_{132}			7 11.9 7°.91		3°.6/12.6 18	
	h m	° ′			°	m
6 10	19 50.05	−16 8.3	1.134	2.036	17.6	18.8
6 20	19 45.10	−15 30.8	1.079	2.037	13.1	18.6
6 30	19 37.32	−15 2.9	1.042	2.038	8.1	18.3
7 10	19 27.81	−14 45.0	1.028	2.040	3.9	18.1
7 20	19 18.02	−14 36.2	1.036	2.043	5.6	18.2
7 30	19 9.50	−14 35.3	1.068	2.046	10.5	18.5
8 9	19 3.53	−14 40.2	1.119	2.051	15.2	18.7
8 19	19 0.79	−14 48.8	1.189	2.056	19.2	19.0
281107 2006 XR_{73}			7 11.9 150°.03		0°.1/11.9 18	
6 10	19 49.00	−18 34.2	2.749	3.616	9.6	20.6
6 20	19 43.10	−19 38.4	2.679	3.623	6.9	20.4
6 30	19 35.77	−20 48.1	2.635	3.630	3.9	20.3
7 10	19 27.54	−22 0.0	2.620	3.636	0.6	20.0
7 20	19 19.06	−23 10.4	2.635	3.642	2.6	20.2
7 30	19 11.06	−24 16.3	2.681	3.647	5.7	20.4
8 9	19 4.18	−25 15.4	2.755	3.653	8.5	20.6
8 19	18 58.93	−26 6.8	2.852	3.658	10.9	20.8
380812 2005 YS_{56}			7 11.9 306°.44		0°.2/12.0 17	
6 10	19 52.22	−21 52.9	1.625	2.515	13.9	21.0
6 20	19 46.12	−21 42.5	1.557	2.512	10.1	20.7
6 30	19 37.70	−21 34.2	1.512	2.510	5.7	20.5
7 10	19 27.87	−21 26.1	1.491	2.508	1.0	20.1
7 20	19 17.78	−21 16.6	1.497	2.505	3.8	20.3
7 30	19 8.66	−21 5.0	1.529	2.503	8.4	20.6
8 9	19 1.57	−20 51.5	1.585	2.501	12.5	20.8
8 19	18 57.15	−20 36.6	1.661	2.499	16.0	21.1
418221 2008 CY_{181}			7 11.9 30°.02		3°.6/13.7 17	
6 10	19 49.24	−10 5.9	1.402	2.280	16.4	20.1
6 20	19 44.20	−10 50.8	1.339	2.282	12.4	19.9
6 30	19 36.74	−11 55.2	1.297	2.285	8.0	19.6
7 10	19 27.73	−13 15.8	1.279	2.289	4.1	19.4
7 20	19 18.32	−14 46.7	1.287	2.292	4.9	19.5
7 30	19 9.84	−16 20.8	1.319	2.296	9.1	19.7
8 9	19 3.42	−17 51.6	1.375	2.300	13.4	20.0
8 19	18 59.78	−19 14.5	1.452	2.304	17.2	20.2
479991 2014 KQ_{22}			7 11.9 68°.36		3°.4/13.0 16	
6 10	19 48.78	−12 59.4	2.037	2.904	12.5	20.9
6 20	19 43.16	−12 33.0	1.971	2.909	9.4	20.7
6 30	19 35.85	−12 14.9	1.929	2.914	6.1	20.5
7 10	19 27.56	−12 5.0	1.913	2.919	3.6	20.4
7 20	19 19.10	−12 2.8	1.924	2.924	4.4	20.4
7 30	19 11.38	−12 7.1	1.962	2.929	7.4	20.6
8 9	19 5.15	−12 16.4	2.025	2.935	10.5	20.8
8 19	19 0.93	−12 28.9	2.110	2.940	13.3	21.0
255030 2005 TJ_{74}			7 12.0 214°.97		3°.2/13.7 18	
6 10	19 46.37	− 9 25.5	2.889	3.734	9.8	21.3
6 20	19 41.13	− 9 29.1	2.804	3.726	7.6	21.1
6 30	19 34.64	− 9 41.6	2.744	3.718	5.2	21.0
7 10	19 27.36	−10 2.4	2.711	3.710	3.4	20.8
7 20	19 19.86	−10 30.4	2.706	3.701	3.7	20.9
7 30	19 12.76	−11 3.9	2.730	3.692	5.9	21.0
8 9	19 6.65	−11 40.9	2.781	3.682	8.3	21.1
8 19	19 1.96	−12 19.4	2.856	3.672	10.6	21.3
23210 2000 SA_{293}			7 12.0 353°.94		6°.2/10.4 18	
6 10	19 53.48	−38 28.4	1.887	2.764	12.9	18.3
6 20	19 47.04	−38 56.8	1.825	2.762	10.1	18.2
6 30	19 38.20	−39 14.3	1.786	2.760	7.5	18.0
7 10	19 27.96	−39 15.9	1.771	2.759	6.2	17.9
7 20	19 17.54	−38 58.8	1.782	2.758	7.3	18.0
7 30	19 8.23	−38 23.4	1.818	2.757	9.9	18.1
8 9	19 1.10	−37 32.9	1.877	2.757	12.7	18.3
8 19	18 56.74	−36 32.0	1.957	2.757	15.3	18.5
371591 2006 WQ_{49}			7 12.0 278°.89		2°.2/11.1 18	
6 10	19 51.90	−24 13.6	1.553	2.447	14.2	21.2
6 20	19 46.38	−25 7.6	1.471	2.429	10.3	20.9
6 30	19 38.15	−26 6.7	1.412	2.410	6.0	20.6
7 10	19 28.02	−27 5.2	1.378	2.392	2.3	20.3
7 20	19 17.18	−27 56.9	1.369	2.373	5.0	20.5
7 30	19 7.08	−28 37.6	1.386	2.354	9.7	20.7
8 9	18 59.06	−29 5.4	1.426	2.335	14.1	20.9
8 19	18 54.03	−29 21.2	1.485	2.316	17.9	21.1
394349 2007 AH_{28}			7 12.0 15°.10		2°.6/13.8 18	
6 10	19 48.35	− 8 45.6	1.777	2.639	14.2	19.4
6 20	19 43.22	−10 19.4	1.708	2.643	10.7	19.1
6 30	19 36.08	−12 13.0	1.662	2.648	6.8	18.9
7 10	19 27.64	−14 21.3	1.643	2.653	3.1	18.7
7 20	19 18.82	−16 36.8	1.653	2.659	3.9	18.8
7 30	19 10.66	−18 51.2	1.691	2.666	7.7	19.0
8 9	19 4.13	−20 57.5	1.756	2.673	11.5	19.3
8 19	18 59.88	−22 51.0	1.845	2.681	14.8	19.5

418176 2008 BU_{30} 7 12.0 132°.09 0°.3/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 54.12	−21 50.1	1.712	2.596	13.6	22.1
6 20	19 47.32	−22 5.7	1.654	2.606	9.8	21.9
6 30	19 38.30	−22 24.3	1.619	2.616	5.5	21.7
7 10	19 28.00	−22 42.8	1.610	2.626	0.9	21.4
7 20	19 17.53	−22 58.2	1.628	2.635	3.7	21.6
7 30	19 8.08	−23 8.8	1.673	2.644	8.1	21.9
8 9	19 0.65	−23 14.3	1.742	2.652	11.9	22.1
8 19	18 55.82	−23 15.2	1.832	2.660	15.2	22.4

180516 2004 DL_{30} 7 12.0 135°.55 1°.7/11.4 17

6 10	19 54.28	−25 0.3	1.786	2.670	13.1	21.1
6 20	19 47.43	−25 32.3	1.728	2.681	9.4	20.9
6 30	19 38.38	−26 5.0	1.694	2.691	5.4	20.6
7 10	19 28.02	−26 33.9	1.686	2.700	1.9	20.4
7 20	19 17.47	−26 55.8	1.705	2.709	4.2	20.6
7 30	19 7.93	−27 8.8	1.751	2.718	8.2	20.9
8 9	19 0.38	−27 13.0	1.822	2.726	11.8	21.1
8 19	18 55.42	−27 9.9	1.914	2.733	14.9	21.3

281797 2009 VA_{39} 7 12.0 195°.81 4°.7/ 9.9 18

6 10	19 54.19	−32 45.2	2.000	2.879	12.1	21.4
6 20	19 47.51	−33 47.2	1.933	2.877	9.1	21.2
6 30	19 38.53	−34 44.9	1.890	2.875	6.2	21.1
7 10	19 28.06	−35 32.4	1.874	2.872	4.7	21.0
7 20	19 17.21	−36 5.0	1.885	2.869	6.2	21.0
7 30	19 7.20	−36 20.9	1.922	2.865	9.2	21.2
8 9	18 59.09	−36 21.0	1.983	2.861	12.2	21.4
8 19	18 53.60	−36 8.2	2.065	2.857	14.9	21.6

383288 2006 DL_{201} 7 12.0 171°.93 3°.4/10.3 18

6 10	19 52.74	−28 43.0	2.074	2.956	11.7	21.4
6 20	19 46.32	−29 51.8	2.009	2.958	8.5	21.2
6 30	19 37.80	−30 59.8	1.969	2.960	5.3	21.0
7 10	19 27.95	−32 1.4	1.956	2.962	3.4	20.8
7 20	19 17.73	−32 51.9	1.971	2.963	5.1	21.0
7 30	19 8.25	−33 28.6	2.013	2.964	8.3	21.2
8 9	19 0.50	−33 51.2	2.080	2.965	11.4	21.4
8 19	18 55.12	−34 1.4	2.168	2.965	14.1	21.5

77419 2001 FC_{191} 7 12.0 310°.02 0°.8/12.3 18

6 10	19 48.51	−17 52.5	1.709	2.596	13.5	19.2
6 20	19 43.49	−18 24.2	1.635	2.588	9.8	19.0
6 30	19 36.30	−19 4.6	1.583	2.580	5.7	18.7
7 10	19 27.71	−19 50.6	1.557	2.572	1.3	18.4
7 20	19 18.70	−20 38.3	1.556	2.565	3.6	18.6
7 30	19 10.41	−21 23.8	1.582	2.557	8.1	18.8
8 9	19 3.88	−22 4.6	1.632	2.550	12.1	19.0
8 19	18 59.80	−22 39.2	1.703	2.543	15.6	19.2

54590 2000 QA_{202} 7 12.0 127°.59 0°.1/12.1 18

6 10	19 48.73	−20 14.9	2.294	3.171	10.9	19.1
6 20	19 43.08	−20 37.1	2.229	3.178	7.8	18.9
6 30	19 35.81	−21 3.1	2.189	3.185	4.4	18.7
7 10	19 27.60	−21 30.5	2.175	3.192	0.8	18.4
7 20	19 19.21	−21 56.9	2.191	3.198	2.9	18.6
7 30	19 11.48	−22 20.5	2.234	3.204	6.4	18.9
8 9	19 5.14	−22 40.0	2.302	3.210	9.5	19.1
8 19	19 0.69	−22 55.2	2.394	3.216	12.2	19.3

477102 2009 BP_{154} 7 12.0 276°.26 1°.9/11.4 18

6 10	19 50.90	−26 11.5	1.906	2.794	12.3	21.6
6 20	19 45.11	−26 34.3	1.828	2.782	8.9	21.3
6 30	19 37.17	−26 56.9	1.774	2.771	5.2	21.1
7 10	19 27.86	−27 15.9	1.746	2.760	2.0	20.9
7 20	19 18.16	−27 28.1	1.745	2.748	4.2	21.0
7 30	19 9.22	−27 31.9	1.770	2.737	8.1	21.2
8 9	19 2.04	−27 27.5	1.820	2.726	11.7	21.4
8 19	18 57.29	−27 16.0	1.890	2.714	14.9	21.6

503333 2016 BG_{19} 7 12.0 60°.88 1°.3/11.8 17

6 10	19 55.73	−24 36.0	1.143	2.047	17.4	21.0
6 20	19 49.14	−24 37.8	1.099	2.061	12.5	20.7
6 30	19 39.53	−24 40.1	1.076	2.076	7.0	20.5
7 10	19 28.24	−24 38.7	1.075	2.090	1.7	20.2
7 20	19 16.92	−24 30.9	1.097	2.105	4.9	20.4
7 30	19 7.26	−24 16.3	1.144	2.120	10.2	20.8
8 9	19 0.48	−23 56.4	1.211	2.135	14.9	21.1
8 19	18 57.18	−23 33.2	1.297	2.150	18.8	21.4

121515 1999 US_{10} 7 12.0 171°.99 15°.6/ 6.3 18

6 10	20 12.79	−52 55.1	1.356	2.194	19.1	18.5
6 20	20 3.46	−55 8.1	1.317	2.197	17.1	18.4
6 30	19 48.58	−56 54.3	1.296	2.200	15.8	18.3
7 10	19 29.88	−57 58.2	1.296	2.202	15.7	18.3
7 20	19 10.34	−58 11.3	1.316	2.204	16.7	18.4
7 30	18 53.43	−57 35.3	1.355	2.204	18.5	18.5
8 9	18 41.61	−56 21.2	1.410	2.204	20.6	18.7
8 19	18 35.72	−54 42.4	1.480	2.203	22.6	18.8

264062 2009 SX_{101} 7 12.0 312°.08 1°.4/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 48.33	−25 12.8	2.138	3.024	11.2	20.4
6 20	19 43.03	−25 28.2	2.061	3.014	8.1	20.2
6 30	19 35.91	−25 43.9	2.007	3.005	4.6	20.0
7 10	19 27.65	−25 57.2	1.980	2.995	1.5	19.8
7 20	19 19.10	−26 5.8	1.980	2.985	3.5	19.9
7 30	19 11.21	−26 8.3	2.008	2.976	7.1	20.1
8 9	19 4.82	−26 4.7	2.060	2.967	10.5	20.3
8 19	19 0.53	−25 55.7	2.134	2.959	13.4	20.5

144372 2004 DN_{51} 7 12.0 201°.38 1°.2/12.5 18

6 10	19 52.11	−17 14.9	1.887	2.762	12.9	21.0
6 20	19 45.87	−17 33.2	1.812	2.759	9.5	20.8
6 30	19 37.56	−17 59.0	1.761	2.755	5.5	20.6
7 10	19 27.94	−18 29.6	1.736	2.751	1.6	20.3
7 20	19 17.97	−19 2.3	1.738	2.746	3.5	20.4
7 30	19 8.72	−19 34.3	1.768	2.740	7.6	20.7
8 9	19 1.17	−20 3.7	1.823	2.734	11.4	20.9
8 19	18 55.96	−20 29.3	1.899	2.727	14.7	21.1

106757 2000 XW_5 7 12.0 197°.00 0°.6/11.8 18 R

6 10	19 49.58	−23 56.3	2.588	3.464	9.8	19.7
6 20	19 43.58	−23 59.3	2.513	3.462	7.1	19.5
6 30	19 36.07	−24 2.5	2.463	3.460	4.0	19.3
7 10	19 27.67	−24 4.1	2.441	3.457	0.9	19.1
7 20	19 19.10	−24 2.8	2.448	3.454	2.8	19.2
7 30	19 11.12	−23 57.7	2.483	3.451	6.0	19.4
8 9	19 4.44	−23 49.0	2.545	3.448	8.9	19.6
8 19	18 59.52	−23 37.2	2.630	3.444	11.5	19.8

346810 2009 CD_{40} 7 12.0 185°.85 1°.9/11.1 17

6 10	19 50.50	−25 12.8	2.250	3.130	10.9	21.1
6 20	19 44.53	−26 1.2	2.179	3.130	7.9	20.9
6 30	19 36.74	−26 51.0	2.134	3.129	4.5	20.7
7 10	19 27.80	−27 38.1	2.116	3.129	1.9	20.5
7 20	19 18.57	−28 19.0	2.126	3.128	3.8	20.7
7 30	19 9.97	−28 51.2	2.164	3.126	7.1	20.9
8 9	19 2.86	−29 14.1	2.228	3.124	10.3	21.1
8 19	18 57.83	−29 28.1	2.314	3.122	13.0	21.3

476246 2007 VT_{74} 7 12.0 303°.14 2°.8/10.9 18

6 10	19 50.40	−27 30.7	1.857	2.747	12.4	21.8
6 20	19 44.80	−28 11.6	1.787	2.742	9.0	21.6
6 30	19 37.02	−28 52.2	1.741	2.737	5.4	21.3
7 10	19 27.86	−29 27.8	1.721	2.732	2.8	21.2
7 20	19 18.36	−29 54.4	1.728	2.728	4.8	21.3
7 30	19 9.66	−30 10.0	1.760	2.723	8.4	21.5
8 9	19 2.78	−30 14.5	1.817	2.719	11.9	21.7
8 19	18 58.38	−30 9.5	1.894	2.714	15.0	21.9

51380 2001 BM_{44} 7 12.0 77°.38 1°.4/11.5 17

6 10	19 54.06	−22 47.8	1.414	2.309	15.3	19.0
6 20	19 47.57	−23 33.2	1.371	2.328	10.9	18.8
6 30	19 38.55	−24 22.1	1.349	2.348	6.1	18.6
7 10	19 28.11	−25 8.8	1.353	2.368	1.6	18.3
7 20	19 17.58	−25 48.3	1.382	2.388	4.5	18.6
7 30	19 8.33	−26 17.9	1.436	2.407	9.1	18.9
8 9	19 1.46	−26 37.0	1.513	2.426	13.2	19.2
8 19	18 57.56	−26 46.8	1.610	2.445	16.5	19.5

206083 2002 RK_{81} 7 12.0 319°.80 2°.4/12.9 18

6 10	19 47.81	−15 0.1	1.706	2.588	13.7	19.9
6 20	19 42.95	−15 5.0	1.630	2.579	10.2	19.7
6 30	19 36.00	−15 19.7	1.577	2.570	6.3	19.4
7 10	19 27.71	−15 42.9	1.549	2.561	2.7	19.2
7 20	19 19.03	−16 12.0	1.546	2.552	4.1	19.3
7 30	19 11.06	−16 44.3	1.569	2.544	8.1	19.5
8 9	19 4.81	−17 17.2	1.616	2.536	12.0	19.7
8 19	19 0.94	−17 48.6	1.684	2.529	15.5	19.9

496219 2011 WR_{56} 7 12.0 190°.19 4°.0/13.0 16

6 10	19 52.73	−13 21.5	1.393	2.274	16.3	21.9
6 20	19 46.75	−13 2.1	1.328	2.274	12.3	21.6
6 30	19 38.21	−12 54.6	1.285	2.274	7.9	21.4
7 10	19 28.09	−12 58.4	1.264	2.273	4.3	21.2
7 20	19 17.61	−13 12.2	1.269	2.273	5.4	21.2
7 30	19 8.16	−13 33.4	1.299	2.272	9.7	21.5
8 9	19 0.91	−13 59.0	1.351	2.271	14.0	21.7
8 19	18 56.58	−14 26.6	1.422	2.270	17.7	22.0

195121 2002 CB_{154} 7 12.0 345°.79 0°.8/12.3 17

6 10	19 49.97	−18 43.2	1.680	2.567	13.7	20.5
6 20	19 44.49	−18 57.9	1.613	2.566	9.9	20.2
6 30	19 36.84	−19 19.2	1.569	2.566	5.7	20.0
7 10	19 27.85	−19 44.5	1.550	2.565	1.4	19.7
7 20	19 18.55	−20 10.9	1.556	2.565	3.7	19.9
7 30	19 10.10	−20 35.8	1.589	2.564	8.1	20.1
8 9	19 3.50	−20 57.4	1.646	2.564	12.0	20.4
8 19	18 59.39	−21 14.9	1.724	2.563	15.4	20.6

336880 2011 GS_{49} 7 12.0 77°.84 2°.3/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 50.67	−15 52.6	1.660	2.541	14.1	20.8
6 20	19 44.87	−15 49.9	1.601	2.549	10.4	20.6
6 30	19 36.98	−15 55.7	1.565	2.558	6.3	20.4
7 10	19 27.86	−16 8.3	1.554	2.566	2.6	20.2
7 20	19 18.57	−16 25.6	1.569	2.575	4.0	20.3
7 30	19 10.21	−16 45.5	1.609	2.583	8.1	20.6
8 9	19 3.72	−17 5.9	1.674	2.592	11.9	20.8
8 19	18 59.68	−17 25.3	1.760	2.600	15.2	21.0

281537 2008 TS_{177} 7 12.0 80°.19 5°.8/ 9.7 17

6 10	19 53.52	−34 20.6	1.739	2.625	13.3	20.3
6 20	19 47.29	−35 28.9	1.682	2.628	10.2	20.1
6 30	19 38.52	−36 30.9	1.649	2.631	7.2	19.9
7 10	19 28.16	−37 19.6	1.640	2.634	5.8	19.8
7 20	19 17.46	−37 50.1	1.657	2.638	7.3	19.9
7 30	19 7.80	−38 0.7	1.699	2.641	10.3	20.1
8 9	19 0.34	−37 53.1	1.764	2.644	13.4	20.3
8 19	18 55.80	−37 31.2	1.849	2.648	16.1	20.5

333845 1991 TD_{10} 7 12.0 283°.28 6°.5/14.4 16

6 10	19 48.12	− 4 55.7	1.768	2.617	14.9	21.2
6 20	19 43.07	− 4 34.9	1.693	2.610	12.0	21.0
6 30	19 36.03	− 4 31.1	1.639	2.603	9.0	20.8
7 10	19 27.74	− 4 45.2	1.609	2.596	6.8	20.6
7 20	19 19.08	− 5 16.5	1.604	2.589	7.0	20.6
7 30	19 11.09	− 6 2.4	1.624	2.582	9.4	20.7
8 9	19 4.70	− 6 58.4	1.667	2.575	12.5	20.9
8 19	19 0.54	− 8 0.1	1.732	2.568	15.5	21.1

22444 1996 TK_{12} 7 12.0 315°.59 1°.6/11.6 18

6 10	19 49.60	−23 42.2	1.167	2.078	16.6	18.0
6 20	19 45.38	−24 5.1	1.088	2.053	12.2	17.7
6 30	19 37.92	−24 32.8	1.027	2.029	7.0	17.3
7 10	19 28.12	−25 0.4	0.989	2.005	1.9	16.9
7 20	19 17.43	−25 22.6	0.974	1.982	5.4	17.1
7 30	19 7.65	−25 35.8	0.981	1.959	11.2	17.3
8 9	19 0.46	−25 38.9	1.008	1.938	16.6	17.5
8 19	18 56.92	−25 33.1	1.052	1.918	21.3	17.8

253381 2003 JK_{1} 7 12.0 357°.15 10°.8/15.1 18

6 10	19 44.19	+ 1 58.6	1.576	2.409	17.2	18.8
6 20	19 40.35	+ 3 11.5	1.513	2.404	14.7	18.6
6 30	19 34.53	+ 4 2.2	1.469	2.400	12.5	18.5
7 10	19 27.48	+ 4 26.4	1.446	2.398	11.0	18.4
7 20	19 20.13	+ 4 22.7	1.445	2.396	11.0	18.4
7 30	19 13.52	+ 3 52.6	1.465	2.396	12.4	18.5
8 9	19 8.58	+ 3 0.8	1.507	2.397	14.7	18.6
8 19	19 5.93	+ 1 54.0	1.568	2.400	17.1	18.8

91632 1999 TB_{68} 7 12.0 19°.94 0°.4/11.9 18

6 10	19 47.58	−21 41.5	1.880	2.769	12.3	19.0
6 20	19 42.58	−22 4.0	1.818	2.774	8.8	18.8
6 30	19 35.68	−22 30.2	1.780	2.779	4.9	18.6
7 10	19 27.67	−22 57.1	1.768	2.784	0.9	18.3
7 20	19 19.44	−23 21.8	1.783	2.790	3.4	18.5
7 30	19 12.01	−23 42.1	1.823	2.796	7.3	18.8
8 9	19 6.23	−23 57.1	1.888	2.803	10.9	19.0
8 19	19 2.66	−24 6.6	1.975	2.810	13.9	19.2

472810 2015 FT_{161} 7 12.0 1°.23 1°.8/11.4 16

6 10	19 48.29	−23 17.6	1.405	2.308	14.8	20.1
6 20	19 43.71	−24 6.4	1.345	2.307	10.7	19.8
6 30	19 36.58	−24 59.9	1.306	2.306	6.0	19.6
7 10	19 27.84	−25 52.8	1.291	2.306	1.9	19.3
7 20	19 18.72	−26 39.5	1.301	2.307	4.7	19.5
7 30	19 10.60	−27 16.0	1.335	2.308	9.4	19.8
8 9	19 4.66	−27 41.1	1.391	2.311	13.7	20.0
8 19	19 1.64	−27 55.2	1.467	2.314	17.3	20.3

211355 2002 TY_{164} 7 12.0 242°.45 2°.4/10.9 18

6 10	19 50.92	−27 7.5	2.342	3.221	10.6	20.4
6 20	19 44.93	−27 54.6	2.257	3.207	7.7	20.1
6 30	19 37.05	−28 42.2	2.198	3.192	4.6	19.9
7 10	19 27.92	−29 26.3	2.166	3.177	2.4	19.8
7 20	19 18.38	−30 3.0	2.163	3.161	4.1	19.8
7 30	19 9.37	−30 30.2	2.187	3.146	7.3	20.0
8 9	19 1.77	−30 47.2	2.237	3.129	10.5	20.2
8 19	18 56.25	−30 54.9	2.310	3.112	13.2	20.4

486970 2014 NN_{18} 7 12.0 55°.13 1°.0/12.5 18

6 10	19 47.15	−16 51.5	2.226	3.101	11.2	21.3
6 20	19 42.05	−17 23.7	2.157	3.104	8.2	21.1
6 30	19 35.33	−18 3.0	2.112	3.106	4.8	20.9
7 10	19 27.62	−18 47.0	2.094	3.108	1.4	20.7
7 20	19 19.67	−19 32.6	2.103	3.111	3.0	20.8
7 30	19 12.32	−20 17.1	2.141	3.114	6.5	21.0
8 9	19 6.31	−20 58.3	2.204	3.116	9.7	21.2
8 19	19 2.18	−21 34.8	2.290	3.119	12.5	21.4

7193 Yamaoka 7 12.0 318°.94 4°.9/10.3 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 51.49	−35 17.1	2.141	3.020	11.5	17.0
6 20	19 45.44	−35 50.9	2.074	3.015	8.8	16.8
6 30	19 37.33	−36 17.8	2.030	3.011	6.2	16.6
7 10	19 27.97	−36 33.2	2.012	3.007	4.9	16.5
7 20	19 18.36	−36 34.4	2.020	3.003	6.0	16.6
7 30	19 9.59	−36 20.7	2.055	2.999	8.6	16.7
8 9	19 2.61	−35 53.8	2.114	2.995	11.4	16.9
8 19	18 58.01	−35 16.8	2.194	2.992	14.0	17.1

471690 2012 TS_{225} 7 12.0 72°.62 1°.9/12.7 17

6 10	19 49.48	−16 3.9	1.807	2.686	13.2	21.5
6 20	19 43.98	−16 9.5	1.741	2.688	9.7	21.3
6 30	19 36.51	−16 23.2	1.697	2.690	5.8	21.1
7 10	19 27.83	−16 43.3	1.679	2.692	2.3	20.8
7 20	19 18.90	−17 7.4	1.687	2.694	3.7	20.9
7 30	19 10.76	−17 33.1	1.722	2.696	7.6	21.2
8 9	19 4.31	−17 58.4	1.781	2.698	11.3	21.4
8 19	19 0.16	−18 21.8	1.862	2.700	14.5	21.6

207683 2007 QJ_{10} 7 12.0 186°.97 1°.1/11.6 18

6 10	19 51.52	−24 40.8	2.196	3.075	11.2	21.1
6 20	19 45.23	−24 55.4	2.124	3.075	8.1	20.9
6 30	19 37.13	−25 10.2	2.078	3.074	4.6	20.7
7 10	19 27.93	−25 22.6	2.058	3.073	1.3	20.5
7 20	19 18.51	−25 30.3	2.067	3.072	3.4	20.6
7 30	19 9.82	−25 32.3	2.103	3.070	7.0	20.9
8 9	19 2.67	−25 28.6	2.165	3.068	10.2	21.1
8 19	18 57.65	−25 20.0	2.249	3.066	13.1	21.3

393077 2013 AY_{93} 7 12.0 27°.04 3°.8/14.2 17

6 10	19 46.60	− 8 17.0	1.828	2.690	13.9	19.8
6 20	19 41.87	− 9 0.0	1.764	2.697	10.6	19.6
6 30	19 35.30	− 9 59.6	1.723	2.704	7.1	19.4
7 10	19 27.63	−11 13.3	1.707	2.712	4.2	19.2
7 20	19 19.70	−12 36.9	1.718	2.720	4.5	19.2
7 30	19 12.47	−14 4.9	1.756	2.729	7.6	19.4
8 9	19 6.79	−15 32.2	1.819	2.738	11.0	19.7
8 19	19 3.23	−16 54.5	1.905	2.747	14.1	19.9

440281 2004 RZ_{186} 7 12.0 275°.88 4°.2/13.5 17

6 10	19 47.02	− 9 12.9	2.421	3.271	11.3	21.1
6 20	19 41.91	− 8 51.7	2.329	3.253	8.8	20.9
6 30	19 35.26	− 8 39.9	2.262	3.235	6.2	20.7
7 10	19 27.63	− 8 37.9	2.220	3.216	4.3	20.6
7 20	19 19.67	− 8 45.4	2.206	3.198	4.7	20.5
7 30	19 12.16	− 9 1.3	2.219	3.179	7.1	20.7
8 9	19 5.80	− 9 23.6	2.258	3.160	9.9	20.8
8 19	19 1.14	− 9 50.4	2.319	3.142	12.5	21.0

188743 2005 UU_{142} 7 12.0 115°.54 0°.3/11.9 18

6 10	19 48.52	−21 59.4	2.380	3.259	10.5	21.2
6 20	19 42.91	−22 15.6	2.315	3.266	7.5	21.0
6 30	19 35.76	−22 34.1	2.275	3.272	4.2	20.8
7 10	19 27.70	−22 52.5	2.262	3.278	0.7	20.6
7 20	19 19.48	−23 9.0	2.278	3.284	2.9	20.8
7 30	19 11.91	−23 22.0	2.321	3.291	6.2	21.0
8 9	19 5.69	−23 30.9	2.390	3.297	9.3	21.2
8 19	19 1.31	−23 35.8	2.482	3.302	11.9	21.4

326298 1998 SW_{56} 7 12.0 296°.34 4°.4/10.7 17

6 10	19 53.34	−29 57.2	1.455	2.352	14.8	20.4
6 20	19 47.80	−30 40.8	1.369	2.326	11.1	20.1
6 30	19 39.18	−31 22.9	1.305	2.299	7.1	19.8
7 10	19 28.37	−31 56.7	1.265	2.273	4.5	19.6
7 20	19 16.70	−32 16.3	1.249	2.247	6.7	19.6
7 30	19 5.86	−32 18.4	1.258	2.221	11.1	19.8
8 9	18 57.40	−32 4.1	1.288	2.195	15.5	20.0
8 19	18 52.33	−31 36.7	1.337	2.169	19.5	20.2

93111 2000 SJ_{55} 7 12.0 204°.49 3°.0/11.1 18

6 10	19 53.49	−28 54.0	1.902	2.786	12.5	20.0
6 20	19 46.98	−29 23.0	1.832	2.783	9.1	19.7
6 30	19 38.25	−29 49.4	1.787	2.781	5.5	19.5
7 10	19 28.15	−30 9.0	1.768	2.778	3.0	19.4
7 20	19 17.75	−30 18.6	1.775	2.774	4.8	19.5
7 30	19 8.24	−30 16.8	1.810	2.771	8.4	19.7
8 9	19 0.62	−30 4.7	1.868	2.767	11.9	19.9
8 19	18 55.55	−29 44.4	1.948	2.762	14.9	20.1

153352 2001 PP_{21} 7 12.0 282°.08 1°.8/11.5 18

6 10	19 52.52	−24 49.9	1.638	2.529	13.7	20.1
6 20	19 46.78	−25 17.8	1.550	2.506	10.0	19.8
6 30	19 38.41	−25 48.0	1.485	2.483	5.8	19.5
7 10	19 28.22	−26 16.1	1.445	2.460	1.9	19.2
7 20	19 17.36	−26 37.9	1.431	2.436	4.6	19.3
7 30	19 7.21	−26 50.7	1.443	2.412	9.2	19.5
8 9	18 59.05	−26 54.0	1.478	2.389	13.6	19.7
8 19	18 53.76	−26 49.0	1.532	2.365	17.4	19.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
129902 1999 TO_{61}			7 12.0 184.°72		1.°4/11.6 18	
	h m	° ′			°	m
6 10	19 52.09	−25 9.4	1.998	2.881	12.0	20.5
6 20	19 45.80	−25 28.4	1.929	2.881	8.7	20.3
6 30	19 37.52	−25 47.6	1.884	2.881	4.9	20.1
7 10	19 28.03	−26 3.8	1.866	2.881	1.6	19.9
7 20	19 18.28	−26 14.4	1.875	2.880	3.8	20.0
7 30	19 9.34	−26 18.0	1.912	2.879	7.5	20.2
8 9	19 2.12	−26 14.8	1.973	2.878	11.0	20.5
8 19	18 57.22	−26 5.8	2.056	2.876	14.0	20.7
479220 2013 CR_{177}			7 12.0 344.°16		2.°7/11.4 18	
6 10	19 51.94	−30 2.7	2.020	2.903	11.8	20.4
6 20	19 45.68	−30 4.8	1.951	2.901	8.7	20.2
6 30	19 37.43	−30 2.4	1.906	2.900	5.3	19.9
7 10	19 28.00	−29 52.5	1.888	2.898	2.8	19.8
7 20	19 18.41	−29 33.4	1.896	2.896	4.4	19.9
7 30	19 9.70	−29 5.2	1.932	2.895	7.8	20.1
8 9	19 2.79	−28 29.6	1.992	2.894	11.1	20.3
8 19	18 58.22	−27 49.0	2.074	2.893	13.9	20.5
480696 2015 PS_{120}			7 12.0 354.°22		2.°7/11.2 18	
6 10	19 49.87	−28 16.8	1.866	2.756	12.3	20.9
6 20	19 44.37	−28 39.4	1.800	2.754	9.0	20.7
6 30	19 36.77	−28 59.9	1.757	2.753	5.4	20.5
7 10	19 27.91	−29 14.6	1.740	2.752	2.7	20.3
7 20	19 18.79	−29 20.6	1.749	2.751	4.6	20.4
7 30	19 10.54	−29 16.8	1.785	2.750	8.1	20.6
8 9	19 4.11	−29 4.0	1.844	2.750	11.6	20.8
8 19	19 0.10	−28 43.9	1.925	2.750	14.6	21.0
396996 2005 SP_{215}			7 12.0 320.°97		1.°1/12.3 18	
6 10	19 48.78	−19 58.5	1.771	2.659	13.0	20.4
6 20	19 43.69	−19 40.4	1.688	2.642	9.5	20.2
6 30	19 36.47	−19 25.5	1.628	2.625	5.5	19.9
7 10	19 27.88	−19 12.7	1.593	2.609	1.5	19.6
7 20	19 18.89	−19 1.2	1.585	2.593	3.7	19.7
7 30	19 10.63	−18 50.1	1.602	2.577	8.0	19.9
8 9	19 4.08	−18 39.2	1.643	2.562	12.0	20.1
8 19	18 59.92	−18 28.5	1.705	2.548	15.5	20.3
62492 2000 ST_{224}			7 12.0 34.°73		3.°7/13.4 17	R
6 10	19 47.48	−11 28.8	1.917	2.785	13.1	19.1
6 20	19 42.40	−11 17.8	1.854	2.791	9.9	18.9
6 30	19 35.57	−11 17.5	1.813	2.796	6.6	18.7
7 10	19 27.70	−11 27.5	1.797	2.802	4.0	18.6
7 20	19 19.65	−11 46.5	1.808	2.808	4.6	18.6
7 30	19 12.32	−12 12.2	1.845	2.814	7.6	18.8
8 9	19 6.52	−12 42.0	1.906	2.820	10.8	19.0
8 19	19 2.78	−13 13.6	1.989	2.827	13.7	19.2
504063 2005 YZ_{92}			7 12.0 213.°59		0.°6/12.3 17	
6 10	19 51.04	−19 5.9	1.908	2.787	12.6	22.4
6 20	19 45.13	−19 23.1	1.834	2.783	9.2	22.2
6 30	19 37.21	−19 46.0	1.783	2.779	5.3	21.9
7 10	19 28.01	−20 12.0	1.759	2.775	1.2	21.6
7 20	19 18.48	−20 38.4	1.762	2.770	3.4	21.8
7 30	19 9.67	−21 2.8	1.792	2.765	7.5	22.0
8 9	19 2.53	−21 23.7	1.847	2.759	11.3	22.2
8 19	18 57.69	−21 40.5	1.924	2.754	14.5	22.4
234217 2000 SC_{113}			7 12.0 244.°71		5.°1/13.9 18	
6 10	19 49.77	− 6 50.5	2.167	3.009	12.8	21.1
6 20	19 44.06	− 6 36.0	2.075	2.992	10.1	20.9
6 30	19 36.57	− 6 34.1	2.007	2.974	7.4	20.7
7 10	19 27.91	− 6 45.6	1.965	2.957	5.3	20.6
7 20	19 18.83	− 7 9.6	1.950	2.938	5.6	20.5
7 30	19 10.23	− 7 44.4	1.961	2.919	8.1	20.7
8 9	19 2.95	− 8 27.1	1.998	2.899	11.1	20.8
8 19	18 57.61	− 9 14.3	2.058	2.879	14.0	21.0
349381 2007 WX_{9}			7 12.0 315.°66		0.°4/12.2 16	
6 10	19 49.37	−20 8.8	1.825	2.711	12.8	21.3
6 20	19 43.99	−20 21.0	1.754	2.707	9.3	21.1
6 30	19 36.58	−20 37.9	1.706	2.703	5.3	20.9
7 10	19 27.90	−20 57.1	1.683	2.699	1.0	20.5
7 20	19 18.91	−21 16.1	1.687	2.695	3.4	20.7
7 30	19 10.69	−21 32.8	1.718	2.692	7.6	21.0
8 9	19 4.18	−21 46.1	1.772	2.688	11.4	21.2
8 19	19 0.00	−21 55.4	1.848	2.685	14.7	21.4
429500 2011 AX_{68}			7 12.0 220.°26		0.°6/12.2 17	
6 10	19 52.54	−19 34.0	1.866	2.745	12.9	22.1
6 20	19 46.28	−19 44.3	1.788	2.738	9.4	21.9
6 30	19 37.89	−19 59.7	1.734	2.730	5.4	21.6
7 10	19 28.14	−20 17.6	1.706	2.722	1.2	21.3
7 20	19 18.01	−20 35.5	1.706	2.714	3.5	21.5
7 30	19 8.62	−20 51.5	1.733	2.705	7.8	21.7
8 9	19 0.97	−21 4.4	1.784	2.695	11.6	21.9
8 19	18 55.72	−21 13.9	1.857	2.685	15.0	22.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
262856 2007 BP_{33}			7 12.1 235.°67		0.°7/11.8 18	
	h m	° ′			°	m
6 10	19 50.00	−24 7.7	2.331	3.211	10.7	20.6
6 20	19 44.07	−24 8.3	2.256	3.206	7.7	20.4
6 30	19 36.48	−24 9.1	2.205	3.201	4.3	20.2
7 10	19 27.88	−24 8.1	2.181	3.196	1.0	20.0
7 20	19 19.06	−24 3.8	2.185	3.192	3.1	20.1
7 30	19 10.91	−23 55.5	2.217	3.187	6.5	20.3
8 9	19 4.18	−23 43.4	2.276	3.181	9.7	20.5
8 19	18 59.40	−23 28.2	2.356	3.176	12.5	20.7
199895 2007 FK_{38}			7 12.1 64.°84		0.°3/12.1 17	
6 10	19 54.76	−20 56.0	1.500	2.388	14.9	20.2
6 20	19 47.74	−20 58.4	1.464	2.418	10.7	20.0
6 30	19 38.53	−21 4.6	1.450	2.448	6.0	19.8
7 10	19 28.20	−21 11.7	1.462	2.478	1.1	19.6
7 20	19 18.01	−21 17.5	1.500	2.508	3.8	19.8
7 30	19 9.15	−21 20.6	1.563	2.537	8.2	20.2
8 9	19 2.53	−21 20.8	1.650	2.566	12.1	20.5
8 19	18 58.64	−21 18.3	1.758	2.595	15.3	20.7
387781 2003 UH_{118}			7 12.1 305.°57		0.°7/12.2 18	
6 10	19 50.19	−20 19.9	1.682	2.571	13.6	20.7
6 20	19 44.78	−20 14.9	1.605	2.559	9.9	20.4
6 30	19 37.12	−20 13.8	1.550	2.547	5.7	20.1
7 10	19 28.01	−20 15.0	1.520	2.536	1.3	19.8
7 20	19 18.51	−20 16.4	1.517	2.525	3.7	20.0
7 30	19 9.81	−20 16.7	1.539	2.514	8.2	20.2
8 9	19 2.96	−20 15.4	1.585	2.503	12.4	20.4
8 19	18 58.66	−20 12.3	1.651	2.493	15.9	20.6
440269 2004 RO_{114}			7 12.1 63.°70		3.°3/11.0 18	
6 10	19 51.31	−31 35.8	2.234	3.114	11.0	21.1
6 20	19 45.12	−31 52.7	2.169	3.116	8.1	20.9
6 30	19 37.08	−32 4.8	2.128	3.118	5.2	20.7
7 10	19 27.98	−32 8.9	2.114	3.120	3.3	20.6
7 20	19 18.72	−32 2.8	2.127	3.122	4.6	20.7
7 30	19 10.28	−31 46.2	2.168	3.124	7.5	20.9
8 9	19 3.49	−31 20.5	2.233	3.126	10.4	21.1
8 19	18 58.87	−30 48.0	2.320	3.128	13.0	21.3
278303 2007 HY			7 12.1 135.°43		4.°3/13.7 17	
6 10	19 50.12	− 9 32.5	1.866	2.725	13.8	21.2
6 20	19 44.34	− 9 29.7	1.802	2.732	10.6	21.0
6 30	19 36.70	− 9 39.9	1.760	2.739	7.2	20.8
7 10	19 27.93	−10 2.5	1.743	2.745	4.6	20.7
7 20	19 18.94	−10 35.5	1.753	2.751	5.1	20.7
7 30	19 10.71	−11 16.1	1.790	2.756	8.0	20.9
8 9	19 4.10	−12 0.8	1.851	2.762	11.3	21.1
8 19	18 59.68	−12 46.7	1.934	2.767	14.3	21.3
405765 2005 YW_{185}			7 12.1 161.°99		1.°0/11.8 17	
6 10	19 55.31	−22 34.9	1.496	2.385	14.9	22.2
6 20	19 48.63	−23 5.2	1.434	2.389	10.8	22.0
6 30	19 39.33	−23 39.4	1.394	2.392	6.1	21.7
7 10	19 28.41	−24 12.6	1.380	2.396	1.3	21.4
7 20	19 17.15	−24 40.7	1.392	2.398	4.3	21.6
7 30	19 7.00	−25 1.0	1.429	2.401	9.1	21.9
8 9	18 59.12	−25 13.0	1.490	2.402	13.4	22.1
8 19	18 54.25	−25 17.5	1.570	2.403	17.0	22.4
121457 1999 TU_{206}			7 12.1 258.°41		11.°8/11.5 18	
6 10	20 11.80	−45 43.8	1.140	2.010	19.9	19.3
6 20	20 2.19	−46 10.2	1.076	2.000	16.6	19.1
6 30	19 47.57	−46 10.3	1.029	1.989	13.5	18.8
7 10	19 29.85	−45 31.1	1.004	1.978	11.8	18.7
7 20	19 11.85	−44 6.7	1.000	1.967	12.8	18.7
7 30	18 56.52	−42 2.3	1.019	1.956	15.9	18.9
8 9	18 45.86	−39 32.3	1.058	1.944	19.7	19.1
8 19	18 40.50	−36 52.2	1.114	1.933	23.4	19.3
198575 2004 YM			7 12.1 227.°22		12.°6/ 3.7 18	
6 10	20 9.61	−59 20.8	2.295	3.071	14.1	20.1
6 20	20 0.25	−61 6.2	2.242	3.062	13.2	20.1
6 30	19 46.55	−62 30.6	2.211	3.051	12.6	20.0
7 10	19 29.74	−63 24.5	2.201	3.040	12.7	20.0
7 20	19 11.88	−63 42.5	2.212	3.029	13.4	20.0
7 30	18 55.56	−63 24.3	2.243	3.017	14.5	20.1
8 9	18 42.86	−62 35.6	2.292	3.004	15.8	20.2
8 19	18 34.90	−61 24.5	2.357	2.991	17.1	20.2
241907 2001 YN_{104}			7 12.1 294.°29		0.°8/12.5 18	
6 10	19 47.69	−17 12.9	2.073	2.952	11.8	20.0
6 20	19 42.66	−17 50.4	1.996	2.944	8.6	19.7
6 30	19 35.81	−18 35.9	1.942	2.937	5.0	19.5
7 10	19 27.81	−19 26.7	1.915	2.930	1.3	19.2
7 20	19 19.46	−20 19.2	1.915	2.923	3.1	19.4
7 30	19 11.68	−21 10.1	1.943	2.916	7.0	19.6
8 9	19 5.32	−21 56.7	1.996	2.909	10.5	19.8
8 19	19 1.00	−22 37.6	2.072	2.903	13.5	20.0

216335 2007 VK_{235} 7 12.1 98°.26 1°.8/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 53.39	−17 6.3	1.472	2.357	15.3	20.6
6 20	19 47.06	−17 9.9	1.418	2.369	11.2	20.4
6 30	19 38.34	−17 21.8	1.386	2.381	6.6	20.2
7 10	19 28.24	−17 39.7	1.378	2.392	2.2	19.9
7 20	19 17.97	−18 0.7	1.396	2.404	4.1	20.1
7 30	19 8.83	−18 22.2	1.440	2.415	8.7	20.4
8 9	19 1.87	−18 42.4	1.507	2.426	12.8	20.7
8 19	18 57.69	−19 0.1	1.594	2.437	16.4	20.9

358353 2006 WZ_{103} 7 12.1 222°.01 0°.2/12.2 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 48.78	−20 17.2	2.383	3.259	10.6	22.0
6 20	19 43.21	−20 31.1	2.306	3.254	7.6	21.8
6 30	19 36.02	−20 48.6	2.253	3.248	4.3	21.6
7 10	19 27.84	−21 7.6	2.227	3.243	0.8	21.3
7 20	19 19.41	−21 26.1	2.229	3.237	2.8	21.5
7 30	19 11.55	−21 42.5	2.260	3.231	6.3	21.7
8 9	19 4.99	−21 55.9	2.317	3.224	9.5	21.9
8 19	19 0.28	−22 5.9	2.396	3.218	12.2	22.1

511850 2015 FB_{336} 7 12.1 72°.01 9°.3/15.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 48.38	+ 2 13.4	1.856	2.668	15.7	20.9
6 20	19 43.05	+ 3 3.7	1.798	2.678	13.3	20.8
6 30	19 35.96	+ 3 33.2	1.761	2.688	11.0	20.7
7 10	19 27.83	+ 3 39.6	1.747	2.698	9.5	20.6
7 20	19 19.52	+ 3 22.6	1.757	2.708	9.4	20.6
7 30	19 11.97	+ 2 44.5	1.790	2.718	10.7	20.7
8 9	19 5.97	+ 1 50.1	1.847	2.728	12.8	20.9
8 19	19 2.07	+ 0 44.8	1.924	2.738	15.1	21.0

476540 2008 HC_{24} 7 12.1 232°.18 0°.4/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 47.61	−18 21.2	2.338	3.214	10.8	21.4
6 20	19 42.40	−18 56.4	2.263	3.211	7.8	21.2
6 30	19 35.59	−19 37.6	2.213	3.208	4.5	20.9
7 10	19 27.77	−20 22.2	2.189	3.205	1.0	20.7
7 20	19 19.68	−21 7.2	2.194	3.202	2.8	20.8
7 30	19 12.13	−21 50.0	2.228	3.199	6.3	21.1
8 9	19 5.86	−22 28.6	2.287	3.196	9.5	21.2
8 19	19 1.41	−23 2.0	2.369	3.193	12.3	21.4

512116 2015 OP_{84} 7 12.1 6°.92 1°.2/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 48.87	−19 14.7	2.078	2.958	11.7	20.3
6 20	19 43.35	−18 56.1	2.009	2.958	8.5	20.1
6 30	19 36.11	−18 40.8	1.964	2.959	5.0	19.8
7 10	19 27.86	−18 28.1	1.945	2.960	1.5	19.6
7 20	19 19.44	−18 17.2	1.954	2.961	3.2	19.7
7 30	19 11.75	−18 7.4	1.990	2.962	6.9	20.0
8 9	19 5.56	−17 58.4	2.050	2.964	10.2	20.2
8 19	19 1.40	−17 50.0	2.134	2.966	13.1	20.4

414442 2009 EK_{20} 7 12.1 28°.62 5°.2/10.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 52.57	−29 53.7	1.109	2.020	17.2	20.1
6 20	19 47.35	−30 52.9	1.064	2.027	12.7	19.8
6 30	19 38.84	−31 48.4	1.039	2.035	8.0	19.6
7 10	19 28.36	−32 31.8	1.036	2.044	5.2	19.5
7 20	19 17.60	−32 56.7	1.055	2.053	7.5	19.6
7 30	19 8.43	−33 1.2	1.097	2.064	11.9	19.9
8 9	19 2.24	−32 47.7	1.159	2.074	16.1	20.2
8 19	18 59.73	−32 20.7	1.238	2.086	19.8	20.5

471787 2012 VA_{28} 7 12.1 203°.35 3°.7/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 52.99	−31 10.2	1.955	2.838	12.2	21.2
6 20	19 46.62	−31 42.6	1.889	2.837	9.0	21.0
6 30	19 38.09	−32 10.7	1.846	2.836	5.8	20.8
7 10	19 28.22	−32 30.1	1.829	2.834	3.8	20.6
7 20	19 18.08	−32 37.5	1.839	2.833	5.3	20.7
7 30	19 8.83	−32 32.0	1.875	2.831	8.5	20.9
8 9	19 1.47	−32 14.9	1.936	2.829	11.7	21.1
8 19	18 56.62	−31 48.7	2.017	2.827	14.6	21.3

383164 2005 UD_{486} 7 12.1 279°.66 2°.1/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 53.61	−26 21.2	1.677	2.566	13.6	21.8
6 20	19 47.55	−26 38.9	1.589	2.543	10.0	21.5
6 30	19 38.87	−26 56.4	1.523	2.520	5.8	21.2
7 10	19 28.40	−27 9.5	1.483	2.497	2.2	20.9
7 20	19 17.31	−27 14.7	1.469	2.474	4.7	21.0
7 30	19 6.97	−27 10.1	1.481	2.450	9.2	21.2
8 9	18 58.64	−26 56.3	1.517	2.426	13.4	21.4
8 19	18 53.17	−26 35.3	1.573	2.402	17.2	21.6

107022 2000 YL_{116} 7 12.1 196°.04 1°.1/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 51.66	−23 45.2	2.225	3.103	11.1	20.7
6 20	19 45.41	−24 11.8	2.151	3.100	8.0	20.5
6 30	19 37.32	−24 40.0	2.101	3.098	4.5	20.3
7 10	19 28.10	−25 6.6	2.079	3.094	1.2	20.0
7 20	19 18.59	−25 29.0	2.085	3.090	3.4	20.2
7 30	19 9.75	−25 45.4	2.119	3.086	6.9	20.4
8 9	19 2.41	−25 55.2	2.179	3.081	10.2	20.6
8 19	18 57.17	−25 58.9	2.261	3.076	13.1	20.8

286459 2002 AA_{111} 7 12.1 111°.34 0°.2/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 48.43	−19 23.1	2.341	3.216	10.7	20.7
6 20	19 42.92	−19 58.0	2.277	3.226	7.7	20.5
6 30	19 35.84	−20 37.6	2.239	3.235	4.4	20.3
7 10	19 27.83	−21 19.3	2.228	3.244	0.8	20.0
7 20	19 19.64	−22 0.0	2.245	3.253	2.8	20.2
7 30	19 12.08	−22 37.5	2.291	3.261	6.2	20.4
8 9	19 5.84	−23 10.1	2.362	3.270	9.3	20.7
8 19	19 1.45	−23 37.3	2.457	3.278	12.0	20.9

121392 1999 TU_{118} 7 12.1 285°.95 0°.2/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 48.79	−21 44.6	2.261	3.141	10.9	20.8
6 20	19 43.44	−21 58.5	2.168	3.118	7.9	20.6
6 30	19 36.29	−22 15.5	2.099	3.095	4.5	20.4
7 10	19 27.94	−22 33.3	2.056	3.072	0.8	20.0
7 20	19 19.18	−22 49.6	2.042	3.049	3.1	20.2
7 30	19 10.90	−23 2.7	2.055	3.026	6.8	20.4
8 9	19 3.98	−23 11.7	2.094	3.002	10.3	20.6
8 19	18 59.02	−23 16.6	2.155	2.979	13.3	20.7

293245 2007 BZ_{78} 7 12.1 233°.46 0°.6/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 48.30	−19 14.3	2.598	3.470	10.0	22.0
6 20	19 42.78	−19 24.9	2.514	3.460	7.2	21.8
6 30	19 35.78	−19 39.4	2.455	3.450	4.2	21.6
7 10	19 27.84	−19 56.1	2.424	3.439	1.0	21.4
7 20	19 19.64	−20 13.2	2.421	3.428	2.7	21.5
7 30	19 11.92	−20 29.3	2.446	3.417	5.9	21.7
8 9	19 5.37	−20 43.4	2.499	3.405	8.9	21.9
8 19	19 0.51	−20 55.0	2.574	3.393	11.5	22.0

137555 1999 VE_{86} 7 12.1 157°.20 1°.5/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 54.77	−24 45.4	1.800	2.683	13.1	20.0
6 20	19 47.90	−25 11.6	1.737	2.689	9.4	19.8
6 30	19 38.81	−25 38.6	1.698	2.695	5.4	19.5
7 10	19 28.37	−26 2.3	1.685	2.700	1.7	19.3
7 20	19 17.69	−26 19.6	1.700	2.704	4.1	19.5
7 30	19 7.97	−26 28.7	1.741	2.708	8.1	19.7
8 9	19 0.22	−26 29.8	1.807	2.712	11.8	20.0
8 19	18 55.06	−26 24.3	1.894	2.715	15.0	20.2

112755 2002 PV_{135} 7 12.1 269°.80 1°.2/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 50.84	−23 46.8	2.088	2.970	11.6	20.2
6 20	19 45.09	−24 13.9	1.997	2.949	8.4	19.9
6 30	19 37.30	−24 43.5	1.931	2.928	4.8	19.7
7 10	19 28.13	−25 12.1	1.891	2.906	1.3	19.4
7 20	19 18.48	−25 36.8	1.879	2.885	3.6	19.5
7 30	19 9.38	−25 55.1	1.894	2.862	7.5	19.7
8 9	19 1.80	−26 6.4	1.935	2.840	11.2	19.9
8 19	18 56.45	−26 10.9	1.997	2.817	14.4	20.1

258426 2001 XK_{198} 7 12.1 221°.00 0°.6/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 48.07	−17 5.6	2.198	3.073	11.4	20.0
6 20	19 42.83	−17 53.1	2.125	3.072	8.3	19.8
6 30	19 35.89	−18 48.5	2.076	3.071	4.8	19.6
7 10	19 27.87	−19 48.7	2.055	3.070	1.1	19.4
7 20	19 19.55	−20 49.8	2.062	3.070	3.0	19.5
7 30	19 11.79	−21 48.3	2.097	3.069	6.6	19.7
8 9	19 5.40	−22 41.7	2.158	3.068	10.0	19.9
8 19	19 0.94	−23 28.4	2.242	3.067	12.8	20.1

318375 2004 VL_{71} 7 12.1 320°.95 3°.1/13.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 47.21	−13 28.2	2.136	3.005	11.9	20.1
6 20	19 42.19	−13 6.6	2.057	2.996	9.0	19.9
6 30	19 35.51	−12 52.7	2.003	2.989	5.8	19.6
7 10	19 27.80	−12 46.2	1.974	2.981	3.3	19.5
7 20	19 19.83	−12 46.6	1.972	2.973	4.1	19.5
7 30	19 12.46	−12 52.9	1.997	2.966	7.1	19.7
8 9	19 6.44	−13 3.4	2.047	2.959	10.3	19.9
8 19	19 2.34	−13 16.7	2.119	2.953	13.2	20.1

166575 2002 RV_{127} 7 12.1 341°.89 3°.6/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 51.01	−14 38.2	1.782	2.656	13.6	19.5
6 20	19 45.11	−13 52.8	1.712	2.654	10.3	19.2
6 30	19 37.20	−13 14.2	1.665	2.652	6.6	19.0
7 10	19 28.09	−12 42.9	1.643	2.651	3.8	18.8
7 20	19 18.75	−12 19.5	1.648	2.649	4.8	18.9
7 30	19 10.24	−12 3.7	1.679	2.648	8.3	19.1
8 9	19 3.46	−11 54.7	1.734	2.647	11.9	19.3
8 19	18 59.01	−11 51.1	1.811	2.646	15.0	19.5

265466 2005 AH_{39} 7 12.1 234°.74 4°.3/15.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 46.04	− 3 54.6	2.795	3.618	10.7	20.8
6 20	19 41.04	− 4 21.6	2.709	3.611	8.6	20.6
6 30	19 34.76	− 5 2.1	2.646	3.605	6.3	20.5
7 10	19 27.67	− 5 55.4	2.611	3.597	4.6	20.4
7 20	19 20.33	− 6 59.5	2.604	3.590	4.6	20.4
7 30	19 13.37	− 8 11.7	2.626	3.583	6.3	20.5
8 9	19 7.39	− 9 28.2	2.675	3.575	8.6	20.6
8 19	19 2.85	−10 45.9	2.749	3.568	10.9	20.7

343332 2010 CP_{22} 7 12.1 324.°13 2.°4/11.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 51.76	−27 2.9	1.704	2.595	13.3	20.9
6 20	19 45.94	−27 23.7	1.637	2.592	9.6	20.7
6 30	19 37.79	−27 43.3	1.592	2.589	5.7	20.4
7 10	19 28.21	−27 57.8	1.573	2.586	2.4	20.2
7 20	19 18.32	−28 4.1	1.579	2.583	4.6	20.4
7 30	19 9.37	−28 0.8	1.612	2.580	8.6	20.6
8 9	19 2.41	−27 48.7	1.668	2.577	12.4	20.8
8 19	18 58.12	−27 29.6	1.745	2.575	15.7	21.0

220958 2005 MF_{8} 7 12.1 15.°90 1.°2/12.4 17

6 10	19 48.49	−18 35.3	1.124	2.032	17.2	20.0
6 20	19 44.14	−18 45.0	1.073	2.036	12.6	19.7
6 30	19 36.96	−19 4.2	1.042	2.042	7.2	19.5
7 10	19 28.08	−19 29.7	1.033	2.048	1.8	19.2
7 20	19 18.92	−19 57.3	1.046	2.056	4.5	19.4
7 30	19 11.04	−20 23.6	1.082	2.064	9.9	19.7
8 9	19 5.69	−20 46.0	1.140	2.074	14.7	20.0
8 19	19 3.53	−21 3.4	1.215	2.084	18.7	20.3

421735 2014 PO_{41} 7 12.1 305.°63 3.°5/10.7 18

6 10	19 49.15	−33 0.2	2.560	3.437	9.9	20.6
6 20	19 43.52	−33 24.2	2.486	3.430	7.4	20.4
6 30	19 36.23	−33 43.5	2.437	3.423	4.9	20.2
7 10	19 27.94	−33 54.9	2.415	3.416	3.5	20.1
7 20	19 19.43	−33 56.4	2.420	3.409	4.7	20.2
7 30	19 11.55	−33 47.0	2.452	3.402	7.1	20.3
8 9	19 5.07	−33 27.8	2.510	3.395	9.7	20.5
8 19	19 0.52	−33 0.7	2.590	3.389	12.0	20.6

478721 2012 UK_{55} 7 12.1 296.°44 7.°8/13.5 18

6 10	19 49.26	− 4 43.7	1.731	2.578	15.2	21.0
6 20	19 44.17	− 3 46.1	1.638	2.552	12.5	20.7
6 30	19 36.90	− 3 2.6	1.566	2.525	9.7	20.5
7 10	19 28.10	− 2 36.3	1.518	2.498	7.9	20.4
7 20	19 18.70	− 2 29.0	1.494	2.471	8.3	20.3
7 30	19 9.80	− 2 40.6	1.494	2.444	10.8	20.4
8 9	19 2.48	− 3 8.3	1.517	2.417	14.0	20.5
8 19	18 57.53	− 3 48.2	1.560	2.391	17.2	20.7

466295 2013 PW_{68} 7 12.1 4.°86 0.°3/12.1 17

6 10	19 50.97	−22 35.9	1.089	2.000	17.4	20.2
6 20	19 46.06	−22 10.1	1.034	1.999	12.7	19.9
6 30	19 38.09	−21 46.2	0.998	1.999	7.2	19.6
7 10	19 28.29	−21 22.5	0.985	2.001	1.3	19.3
7 20	19 18.21	−20 57.9	0.994	2.003	4.7	19.5
7 30	19 9.55	−20 32.3	1.025	2.007	10.4	19.8
8 9	19 3.63	−20 6.6	1.077	2.012	15.4	20.1
8 19	19 1.14	−19 41.8	1.147	2.017	19.6	20.4

35079 1990 QR_{7} 7 12.1 302.°55 1.°9/11.6 18

6 10	19 52.09	−24 34.3	1.242	2.147	16.2	19.0
6 20	19 47.09	−24 57.4	1.164	2.126	11.9	18.7
6 30	19 38.91	−25 23.7	1.106	2.106	6.9	18.3
7 10	19 28.48	−25 47.9	1.070	2.086	2.1	18.0
7 20	19 17.24	−26 5.2	1.059	2.066	5.3	18.1
7 30	19 6.96	−26 12.3	1.070	2.046	10.9	18.4
8 9	18 59.22	−26 9.1	1.102	2.027	16.0	18.6
8 19	18 55.04	−25 57.3	1.152	2.008	20.5	18.8

383320 2006 HH_{120} 7 12.1 81.°57 2.°7/11.1 17

6 10	19 52.11	−26 58.2	1.796	2.684	12.9	21.0
6 20	19 46.00	−27 43.4	1.743	2.697	9.3	20.8
6 30	19 37.73	−28 27.8	1.714	2.709	5.5	20.6
7 10	19 28.21	−29 6.8	1.710	2.722	2.7	20.4
7 20	19 18.51	−29 36.4	1.734	2.734	4.7	20.6
7 30	19 9.77	−29 54.6	1.783	2.747	8.3	20.8
8 9	19 2.97	−30 1.8	1.857	2.759	11.7	21.1
8 19	18 58.70	−29 59.5	1.952	2.771	14.7	21.3

67475 2000 RY_{7} 7 12.1 100.°24 4.°9/13.6 18

6 10	19 51.54	−10 8.3	1.427	2.300	16.4	18.4
6 20	19 45.85	− 9 58.0	1.367	2.306	12.6	18.1
6 30	19 37.77	−10 3.5	1.328	2.311	8.5	17.9
7 10	19 28.24	−10 24.2	1.312	2.316	5.3	17.7
7 20	19 18.41	−10 57.8	1.321	2.321	5.9	17.8
7 30	19 9.59	−11 40.8	1.355	2.326	9.5	18.0
8 9	19 2.85	−12 28.7	1.411	2.331	13.5	18.3
8 19	18 58.86	−13 17.6	1.488	2.336	17.0	18.5

521470 2015 OK_{92} 7 12.1 216.°17 0.°8/11.9 18

6 10	19 50.49	−24 50.2	2.388	3.266	10.5	21.4
6 20	19 44.40	−24 43.2	2.315	3.265	7.5	21.2
6 30	19 36.69	−24 35.5	2.267	3.263	4.3	21.0
7 10	19 28.03	−24 25.4	2.246	3.261	1.0	20.8
7 20	19 19.21	−24 11.7	2.253	3.259	3.0	20.9
7 30	19 11.07	−23 54.2	2.289	3.257	6.4	21.2
8 9	19 4.35	−23 33.4	2.350	3.255	9.5	21.3
8 19	18 59.55	−23 10.2	2.435	3.253	12.1	21.5

100506 1997 AG_{9} 7 12.1 234.°50 1.°0/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 50.61	−25 4.2	2.386	3.264	10.5	20.6
6 20	19 44.57	−25 7.9	2.307	3.257	7.6	20.4
6 30	19 36.83	−25 11.3	2.253	3.249	4.3	20.2
7 10	19 28.07	−25 12.0	2.226	3.241	1.2	20.0
7 20	19 19.07	−25 8.6	2.228	3.233	3.1	20.1
7 30	19 10.70	−25 0.2	2.257	3.225	6.5	20.3
8 9	19 3.74	−24 47.3	2.313	3.216	9.7	20.5
8 19	18 58.72	−24 30.6	2.391	3.208	12.4	20.7

442153 2010 VO_{188} 7 12.1 329.°96 2.°8/11.1 18

6 10	19 49.85	−29 30.3	2.125	3.010	11.3	20.8
6 20	19 44.24	−29 50.4	2.054	3.005	8.3	20.6
6 30	19 36.73	−30 7.6	2.007	3.000	5.1	20.4
7 10	19 28.06	−30 18.4	1.987	2.996	2.8	20.3
7 20	19 19.15	−30 20.5	1.993	2.992	4.4	20.4
7 30	19 10.99	−30 12.9	2.026	2.988	7.6	20.6
8 9	19 4.46	−29 56.5	2.084	2.984	10.7	20.7
8 19	19 0.12	−29 33.1	2.164	2.981	13.5	20.9

337122 1999 TX_{38} 7 12.1 293.°01 5.°1/13.3 18

6 10	19 50.45	− 9 36.9	1.833	2.693	14.0	20.9
6 20	19 45.08	− 9 11.7	1.727	2.657	11.0	20.6
6 30	19 37.47	− 8 58.0	1.643	2.620	7.8	20.3
7 10	19 28.25	− 8 56.9	1.583	2.583	5.3	20.1
7 20	19 18.27	− 9 8.5	1.550	2.545	5.9	20.0
7 30	19 8.68	− 9 31.4	1.542	2.507	9.2	20.2
8 9	19 0.55	−10 3.3	1.559	2.468	13.1	20.3
8 19	18 54.76	−10 41.0	1.596	2.429	16.8	20.4

318291 2004 TV_{55} 7 12.1 216.°63 1.°7/12.9 18

6 10	19 46.89	−15 17.6	2.764	3.627	9.7	21.2
6 20	19 41.68	−15 22.0	2.683	3.622	7.2	21.1
6 30	19 35.14	−15 32.3	2.627	3.616	4.4	20.9
7 10	19 27.78	−15 47.2	2.599	3.610	1.9	20.7
7 20	19 20.22	−16 5.4	2.599	3.604	2.8	20.8
7 30	19 13.11	−16 25.6	2.628	3.598	5.6	20.9
8 9	19 7.06	−16 46.4	2.684	3.591	8.4	21.1
8 19	19 2.53	−17 6.6	2.763	3.585	10.8	21.3

474161 1999 RH_{114} 7 12.1 337.°80 11.°1/15.2 17

6 10	19 42.87	− 0 38.0	1.214	2.079	19.3	19.6
6 20	19 40.09	+ 0 18.4	1.139	2.057	16.4	19.3
6 30	19 34.80	+ 0 49.4	1.082	2.037	13.5	19.1
7 10	19 27.78	+ 0 49.9	1.044	2.018	11.4	18.9
7 20	19 20.12	+ 0 17.7	1.025	2.001	11.4	18.9
7 30	19 13.21	− 0 44.9	1.028	1.985	13.6	18.9
8 9	19 8.31	− 2 10.9	1.049	1.971	16.9	19.1
8 19	19 6.32	− 3 50.9	1.088	1.959	20.3	19.3

451861 2014 GM_{17} 7 12.1 295.°59 22.°9/14.6 17

6 10	19 49.67	+18 8.9	1.165	1.925	26.0	21.2
6 20	19 45.28	+20 48.9	1.107	1.911	24.7	21.1
6 30	19 37.88	+22 51.4	1.062	1.896	23.6	20.9
7 10	19 28.34	+24 4.2	1.031	1.882	23.0	20.8
7 20	19 17.95	+24 19.2	1.013	1.868	23.1	20.8
7 30	19 8.36	+23 34.6	1.010	1.854	23.8	20.8
8 9	19 1.10	+21 56.8	1.019	1.841	25.1	20.8
8 19	18 57.21	+19 37.6	1.041	1.828	26.7	20.9

381878 2010 AD_{56} 7 12.1 167.°80 1.°8/11.4 18

6 10	19 53.40	−26 50.6	2.429	3.302	10.5	21.9
6 20	19 46.49	−27 10.3	2.360	3.307	7.6	21.7
6 30	19 37.88	−27 28.7	2.318	3.312	4.4	21.5
7 10	19 28.27	−27 42.7	2.303	3.316	1.8	21.3
7 20	19 18.48	−27 50.3	2.317	3.319	3.5	21.5
7 30	19 9.41	−27 50.5	2.360	3.322	6.7	21.7
8 9	19 1.83	−27 43.8	2.429	3.324	9.6	21.9
8 19	18 56.26	−27 31.4	2.521	3.325	12.2	22.0

191654 2004 PQ_{71} 7 12.1 273.°18 5.°1/10.9 18

6 10	19 58.40	−35 17.7	1.849	2.724	13.2	20.7
6 20	19 50.95	−35 31.6	1.760	2.701	10.1	20.4
6 30	19 40.78	−35 36.3	1.695	2.678	7.0	20.2
7 10	19 28.82	−35 26.5	1.655	2.654	5.1	20.0
7 20	19 16.34	−34 58.8	1.641	2.630	6.5	20.1
7 30	19 4.81	−34 13.3	1.654	2.605	9.8	20.2
8 9	18 55.50	−33 13.5	1.692	2.581	13.4	20.4
8 19	18 49.21	−32 4.3	1.750	2.555	16.7	20.5

429601 2011 EJ_{77} 7 12.1 157.°59 4.°4/11.1 17

6 10	19 57.02	−33 17.5	1.817	2.697	13.2	21.0
6 20	19 49.62	−33 36.3	1.755	2.700	9.9	20.8
6 30	19 39.82	−33 47.7	1.716	2.703	6.5	20.6
7 10	19 28.61	−33 47.0	1.703	2.706	4.4	20.5
7 20	19 17.24	−33 31.7	1.717	2.709	5.8	20.6
7 30	19 7.01	−33 1.9	1.757	2.711	9.1	20.8
8 9	18 58.99	−32 20.7	1.821	2.713	12.4	21.0
8 19	18 53.78	−31 31.9	1.906	2.715	15.4	21.2

296279 2009 DG_{58} 7 12.1 329.°20 1.°4/11.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 49.62	−24 10.6	1.828	2.718	12.6	20.5
6 20	19 44.29	−24 37.8	1.758	2.714	9.1	20.3
6 30	19 36.87	−25 7.0	1.711	2.709	5.2	20.1
7 10	19 28.13	−25 34.5	1.690	2.705	1.5	19.8
7 20	19 19.06	−25 57.1	1.696	2.701	3.9	20.0
7 30	19 10.78	−26 12.6	1.727	2.698	7.9	20.2
8 9	19 4.25	−26 20.5	1.783	2.694	11.6	20.4
8 19	19 0.13	−26 21.5	1.860	2.691	14.8	20.6

136698 1995 SO_{63} 7 12.1 342.°31 2.°2/12.5 18

6 10	19 36.64	−18 49.6	0.778	1.718	19.1	18.7
6 20	19 36.60	−18 30.9	0.708	1.687	14.3	18.3
6 30	19 33.28	−18 22.0	0.654	1.659	8.6	17.9
7 10	19 27.58	−18 22.6	0.618	1.633	2.8	17.4
7 20	19 20.96	−18 30.9	0.599	1.610	5.7	17.5
7 30	19 15.42	−18 43.9	0.597	1.591	12.3	17.7
8 9	19 12.79	−18 58.1	0.612	1.575	18.5	18.0
8 19	19 14.24	−19 10.1	0.640	1.563	23.9	18.2

77584 2001 KP_{14} 7 12.1 48.°98 3.°7/10.5 18

6 10	19 51.27	−28 41.2	1.749	2.641	13.0	19.0
6 20	19 45.61	−29 45.6	1.692	2.646	9.5	18.8
6 30	19 37.65	−30 49.0	1.658	2.652	5.9	18.6
7 10	19 28.27	−31 45.1	1.650	2.658	3.7	18.5
7 20	19 18.58	−32 29.2	1.668	2.664	5.6	18.6
7 30	19 9.80	−32 58.4	1.712	2.670	9.0	18.8
8 9	19 2.99	−33 13.0	1.779	2.676	12.4	19.0
8 19	18 58.82	−33 14.9	1.867	2.683	15.4	19.2

423050 2003 UT_{230} 7 12.1 304.°66 4.°2/10.9 17

6 10	19 52.62	−28 45.3	1.276	2.180	15.9	20.8
6 20	19 47.65	−29 27.5	1.193	2.154	11.9	20.5
6 30	19 39.35	−30 9.7	1.131	2.128	7.4	20.1
7 10	19 28.65	−30 44.8	1.092	2.102	4.3	19.9
7 20	19 16.98	−31 6.1	1.076	2.077	6.8	20.0
7 30	19 6.21	−31 10.0	1.083	2.052	11.7	20.1
8 9	18 58.05	−30 57.1	1.111	2.027	16.6	20.4
8 19	18 53.58	−30 30.9	1.156	2.003	21.0	20.6

248121 2004 RR_{198} 7 12.1 343.°41 4.°2/13.5 18

6 10	19 46.96	−10 16.9	2.063	2.924	12.6	20.0
6 20	19 42.05	− 9 54.2	1.990	2.921	9.7	19.9
6 30	19 35.48	− 9 41.8	1.940	2.918	6.7	19.7
7 10	19 27.88	− 9 40.1	1.915	2.915	4.4	19.5
7 20	19 20.05	− 9 48.3	1.917	2.912	4.9	19.5
7 30	19 12.84	−10 5.1	1.945	2.910	7.6	19.7
8 9	19 7.01	−10 28.2	1.997	2.908	10.6	19.9
8 19	19 3.11	−10 55.1	2.072	2.906	13.4	20.1

516184 2016 QF_{88} 7 12.1 266.°54 1.°6/11.3 18

6 10	19 49.22	−23 58.9	2.160	3.044	11.2	21.5
6 20	19 43.84	−24 49.1	2.083	3.035	8.1	21.3
6 30	19 36.58	−25 42.3	2.030	3.027	4.6	21.0
7 10	19 28.09	−26 34.5	2.004	3.018	1.7	20.8
7 20	19 19.22	−27 21.9	2.006	3.010	3.7	21.0
7 30	19 10.93	−28 1.4	2.036	3.001	7.3	21.2
8 9	19 4.10	−28 31.7	2.091	2.993	10.6	21.4
8 19	18 59.37	−28 53.0	2.167	2.984	13.5	21.5

19210 Higayoshihiro 7 12.1 286.°01 1.°7/12.7 18

6 10	19 50.26	−16 25.3	1.748	2.628	13.6	18.6
6 20	19 44.99	−16 37.1	1.655	2.604	10.1	18.3
6 30	19 37.43	−16 58.0	1.585	2.579	6.1	18.0
7 10	19 28.27	−17 26.2	1.540	2.554	2.1	17.7
7 20	19 18.48	−17 58.9	1.521	2.529	3.9	17.8
7 30	19 9.24	−18 33.2	1.529	2.503	8.3	18.0
8 9	19 1.66	−19 6.5	1.560	2.478	12.6	18.2
8 19	18 56.57	−19 37.1	1.612	2.452	16.3	18.4

473876 2016 EC_{139} 7 12.1 130.°10 5.°6/10.6 17

6 10	19 57.05	−32 42.5	1.391	2.284	15.6	20.8
6 20	19 50.32	−33 34.1	1.335	2.287	11.7	20.5
6 30	19 40.51	−34 19.4	1.301	2.290	7.8	20.3
7 10	19 28.79	−34 50.6	1.290	2.293	5.7	20.2
7 20	19 16.74	−35 2.5	1.304	2.295	7.4	20.3
7 30	19 6.07	−34 53.9	1.342	2.298	11.2	20.5
8 9	18 58.13	−34 28.0	1.402	2.300	15.0	20.8
8 19	18 53.69	−33 49.7	1.481	2.303	18.4	21.0

36088 1999 RD_{92} 7 12.1 351.°18 6.°1/10.5 18

6 10	19 52.14	−36 56.5	1.741	2.626	13.4	18.1
6 20	19 46.37	−37 26.6	1.678	2.621	10.4	17.9
6 30	19 38.12	−37 47.0	1.637	2.617	7.5	17.7
7 10	19 28.36	−37 52.1	1.620	2.613	6.1	17.6
7 20	19 18.35	−37 39.0	1.629	2.610	7.3	17.7
7 30	19 9.44	−37 7.5	1.662	2.608	10.1	17.8
8 9	19 2.74	−36 20.9	1.717	2.607	13.2	18.0
8 19	18 58.89	−35 23.5	1.793	2.606	16.0	18.2

156376 2001 YB_{28} 7 12.1 126.°53 0.°5/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 53.00	−19 59.9	1.925	2.803	12.6	21.1
6 20	19 46.42	−20 6.7	1.866	2.815	9.1	20.9
6 30	19 37.92	−20 17.5	1.831	2.827	5.2	20.7
7 10	19 28.32	−20 29.9	1.822	2.838	1.1	20.4
7 20	19 18.57	−20 41.8	1.841	2.849	3.3	20.6
7 30	19 9.72	−20 51.7	1.888	2.860	7.2	20.9
8 9	19 2.61	−20 58.8	1.959	2.870	10.8	21.1
8 19	18 57.79	−21 3.1	2.053	2.879	13.8	21.3

207871 2007 VQ_{216} 7 12.1 327.°83 0.°7/11.9 18

6 10	19 49.71	−23 1.0	1.730	2.621	13.1	20.3
6 20	19 44.45	−23 15.2	1.658	2.615	9.5	20.1
6 30	19 37.01	−23 32.1	1.610	2.608	5.4	19.9
7 10	19 28.19	−23 48.5	1.586	2.602	1.1	19.5
7 20	19 19.03	−24 1.5	1.589	2.596	3.8	19.7
7 30	19 10.68	−24 9.4	1.617	2.591	8.1	20.0
8 9	19 4.16	−24 11.7	1.669	2.585	12.0	20.2
8 19	19 0.14	−24 8.8	1.742	2.581	15.4	20.4

33113 Julabeth 7 12.1 60.°65 0.°2/12.1 18

6 10	19 52.64	−21 22.4	1.525	2.416	14.6	18.5
6 20	19 46.48	−21 23.4	1.475	2.431	10.5	18.3
6 30	19 38.04	−21 27.9	1.448	2.446	5.9	18.1
7 10	19 28.35	−21 33.3	1.446	2.462	1.1	17.8
7 20	19 18.57	−21 37.3	1.470	2.478	3.8	18.1
7 30	19 9.96	−21 38.6	1.519	2.494	8.3	18.4
8 9	19 3.48	−21 36.8	1.591	2.510	12.3	18.6
8 19	18 59.69	−21 32.3	1.684	2.526	15.7	18.9

497033 2003 SF_{1} 7 12.1 218.°19 2.°8/11.4 17

6 10	19 56.21	−28 4.3	1.607	2.495	14.1	21.8
6 20	19 49.36	−28 23.2	1.537	2.490	10.4	21.6
6 30	19 39.86	−28 39.7	1.490	2.485	6.2	21.3
7 10	19 28.70	−28 49.0	1.468	2.480	2.9	21.1
7 20	19 17.17	−28 47.7	1.472	2.474	5.0	21.2
7 30	19 6.69	−28 35.0	1.502	2.468	9.3	21.5
8 9	18 58.48	−28 12.4	1.555	2.461	13.3	21.7
8 19	18 53.26	−27 42.8	1.629	2.454	16.8	21.9

346683 2008 YL_{78} 7 12.1 229.°63 1.°2/12.5 18

6 10	19 50.53	−17 59.1	2.270	3.140	11.2	22.1
6 20	19 44.60	−18 1.4	2.186	3.130	8.2	21.8
6 30	19 36.94	−18 8.5	2.126	3.120	4.8	21.6
7 10	19 28.18	−18 19.1	2.094	3.109	1.5	21.4
7 20	19 19.10	−18 31.4	2.090	3.097	3.1	21.5
7 30	19 10.59	−18 43.9	2.114	3.085	6.7	21.7
8 9	19 3.44	−18 55.6	2.164	3.073	10.0	21.9
8 19	18 58.25	−19 5.8	2.237	3.060	12.9	22.0

392139 2009 HX_{5} 7 12.1 202.°15 16.°7/17.6 18

6 10	19 53.33	+11 48.3	1.295	2.077	22.8	20.9
6 20	19 47.52	+13 14.6	1.234	2.075	20.6	20.8
6 30	19 38.96	+14 5.8	1.189	2.072	18.5	20.6
7 10	19 28.57	+14 14.3	1.161	2.068	17.0	20.5
7 20	19 17.62	+13 36.7	1.152	2.064	16.7	20.5
7 30	19 7.61	+12 15.7	1.162	2.059	17.6	20.5
8 9	18 59.85	+10 20.2	1.191	2.054	19.6	20.6
8 19	18 55.18	+ 8 2.3	1.236	2.048	21.9	20.8

501783 2014 VL_{16} 7 12.1 242.°32 1.°9/11.5 17

6 10	19 55.55	−25 15.5	1.671	2.557	13.8	22.9
6 20	19 48.94	−25 42.9	1.590	2.543	10.1	22.7
6 30	19 39.71	−26 11.6	1.531	2.528	5.8	22.4
7 10	19 28.70	−26 37.0	1.498	2.512	2.0	22.1
7 20	19 17.12	−26 55.1	1.491	2.496	4.6	22.3
7 30	19 6.35	−27 3.5	1.511	2.479	9.1	22.5
8 9	18 57.64	−27 2.4	1.555	2.462	13.3	22.7
8 19	18 51.83	−26 53.3	1.619	2.444	17.0	22.9

338804 2003 VX_{5} 7 12.1 217.°32 3.°2/13.3 18

6 10	19 49.61	−11 42.0	2.402	3.256	11.3	21.7
6 20	19 43.82	−11 32.9	2.318	3.248	8.6	21.5
6 30	19 36.45	−11 32.2	2.259	3.240	5.7	21.3
7 10	19 28.09	−11 39.6	2.226	3.230	3.4	21.1
7 20	19 19.46	−11 53.9	2.222	3.221	4.0	21.1
7 30	19 11.33	−12 13.9	2.245	3.211	6.7	21.3
8 9	19 4.44	−12 37.6	2.295	3.200	9.7	21.5
8 19	18 59.33	−13 3.2	2.368	3.189	12.4	21.6

317312 2002 GA_{170} 7 12.1 17.°30 0.°6/12.2 17

6 10	19 48.06	−20 13.5	0.949	1.868	18.6	20.0
6 20	19 44.16	−20 16.5	0.905	1.875	13.5	19.7
6 30	19 37.11	−20 27.6	0.880	1.882	7.7	19.4
7 10	19 28.22	−20 43.1	0.876	1.892	1.5	19.1
7 20	19 19.12	−20 59.2	0.892	1.903	4.9	19.4
7 30	19 11.54	−21 12.8	0.930	1.915	10.7	19.7
8 9	19 6.81	−21 22.2	0.988	1.929	15.7	20.1
8 19	19 5.56	−21 27.0	1.062	1.943	20.0	20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
294553 2007 YD_{27}			7 12.1 222°.09		1°.5/11.4 18	
	h m	° ′			°	m
6 10	19 49.90	−24 12.8	2.365	3.243	10.5	21.0
6 20	19 44.19	−24 57.3	2.287	3.237	7.6	20.8
6 30	19 36.73	−25 44.0	2.234	3.230	4.3	20.6
7 10	19 28.15	−26 29.4	2.209	3.223	1.5	20.4
7 20	19 19.24	−27 9.9	2.212	3.215	3.5	20.5
7 30	19 10.87	−27 43.4	2.243	3.208	6.8	20.7
8 9	19 3.86	−28 8.6	2.301	3.200	9.9	20.9
8 19	18 58.80	−28 25.9	2.381	3.191	12.6	21.1
254266 2004 RY_{183}			7 12.1 293°.06		4°.3/10.6 18	
6 10	19 51.67	−34 22.7	2.246	3.123	11.1	19.9
6 20	19 45.57	−34 50.1	2.175	3.118	8.4	19.7
6 30	19 37.52	−35 11.2	2.129	3.112	5.8	19.6
7 10	19 28.29	−35 22.1	2.108	3.106	4.3	19.5
7 20	19 18.80	−35 20.3	2.115	3.101	5.5	19.5
7 30	19 10.11	−35 5.1	2.148	3.095	8.1	19.7
8 9	19 3.08	−34 38.0	2.206	3.090	10.9	19.9
8 19	18 58.32	−34 1.9	2.285	3.085	13.4	20.0
276902 2004 SE_{12}			7 12.1 271°.11		1°.8/11.2 18	
6 10	19 51.19	−22 30.6	1.749	2.637	13.2	20.2
6 20	19 45.70	−23 42.4	1.672	2.626	9.5	19.9
6 30	19 37.86	−25 1.1	1.618	2.615	5.4	19.7
7 10	19 28.39	−26 20.9	1.590	2.604	1.9	19.4
7 20	19 18.33	−27 35.5	1.589	2.593	4.4	19.6
7 30	19 8.92	−28 39.8	1.615	2.582	8.7	19.8
8 9	19 1.32	−29 31.3	1.665	2.570	12.7	20.0
8 19	18 56.32	−30 9.8	1.736	2.559	16.1	20.2
391001 2005 SZ_{107}			7 12.1 353°.71		5°.6/10.3 18	
6 10	19 51.12	−34 58.5	1.741	2.630	13.2	20.2
6 20	19 45.65	−35 41.6	1.679	2.626	10.1	20.0
6 30	19 37.75	−36 17.3	1.640	2.623	7.1	19.8
7 10	19 28.35	−36 40.0	1.625	2.621	5.6	19.7
7 20	19 18.64	−36 45.9	1.635	2.619	7.0	19.8
7 30	19 9.96	−36 34.0	1.670	2.618	9.9	19.9
8 9	19 3.38	−36 6.6	1.727	2.618	13.1	20.1
8 19	18 59.59	−35 27.3	1.805	2.618	15.9	20.3
105704 2000 SF_{69}			7 12.1 248°.40		0°.2/12.2 18	
6 10	19 49.00	−20 20.1	2.475	3.349	10.3	20.6
6 20	19 43.44	−20 32.4	2.388	3.336	7.5	20.3
6 30	19 36.27	−20 48.1	2.326	3.322	4.3	20.1
7 10	19 28.09	−21 5.3	2.292	3.308	0.8	19.8
7 20	19 19.59	−21 22.1	2.286	3.293	2.8	20.0
7 30	19 11.58	−21 37.1	2.308	3.278	6.2	20.2
8 9	19 4.81	−21 49.1	2.356	3.263	9.4	20.4
8 19	18 59.83	−21 57.9	2.428	3.248	12.1	20.5
276561 2003 SL_{194}			7 12.1 286°.21		2°.4/11.7 18	
6 10	19 55.03	−27 8.5	1.397	2.293	15.3	20.9
6 20	19 48.89	−27 13.9	1.322	2.280	11.3	20.6
6 30	19 39.79	−27 17.2	1.269	2.266	6.6	20.3
7 10	19 28.74	−27 13.9	1.239	2.253	2.5	20.0
7 20	19 17.15	−27 0.7	1.234	2.239	5.1	20.1
7 30	19 6.64	−26 37.1	1.254	2.226	10.0	20.4
8 9	18 58.60	−26 5.0	1.296	2.212	14.7	20.6
8 19	18 53.87	−25 27.4	1.357	2.199	18.7	20.8
5011 Ptah			7 12.1 158°.96		5°.2/10.8 18	R
6 10	20 13.53	−31 50.8	1.522	2.386	16.1	20.1
6 20	20 2.04	−32 55.0	1.466	2.403	12.0	19.9
6 30	19 47.07	−33 52.0	1.433	2.418	7.8	19.7
7 10	19 30.00	−34 32.2	1.428	2.430	5.2	19.5
7 20	19 12.68	−34 49.8	1.451	2.440	7.1	19.7
7 30	18 57.08	−34 44.0	1.502	2.447	11.1	19.9
8 9	18 44.72	−34 19.8	1.577	2.452	15.0	20.2
8 19	18 36.33	−33 43.7	1.672	2.454	18.2	20.4
338520 2003 QN_{66}			7 12.1 276°.40		4°.3/14.0 18	
6 10	19 48.88	− 8 34.9	1.896	2.753	13.7	20.6
6 20	19 43.78	− 8 50.9	1.805	2.734	10.7	20.3
6 30	19 36.67	− 9 22.4	1.737	2.715	7.3	20.1
7 10	19 28.18	−10 8.7	1.693	2.695	4.6	19.9
7 20	19 19.18	−11 7.4	1.676	2.675	5.0	19.9
7 30	19 10.66	−12 14.7	1.686	2.655	8.2	20.0
8 9	19 3.60	−13 26.0	1.721	2.635	11.8	20.2
8 19	18 58.73	−14 37.3	1.778	2.615	15.2	20.4
48778 Shokoyukako			7 12.1 307°.80		4°.2/13.8 18	
6 10	19 47.30	− 9 44.3	1.754	2.622	14.1	18.5
6 20	19 42.72	− 9 52.5	1.670	2.606	10.9	18.3
6 30	19 36.09	−10 15.6	1.608	2.590	7.4	18.0
7 10	19 28.09	−10 53.0	1.570	2.574	4.6	17.8
7 20	19 19.61	−11 42.3	1.558	2.559	5.1	17.8
7 30	19 11.71	−12 40.1	1.572	2.544	8.4	18.0
8 9	19 5.38	−13 41.9	1.610	2.529	12.1	18.2
8 19	19 1.33	−14 43.9	1.669	2.515	15.6	18.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
147571 2004 FH_{55}			7 12.1 337°.86		1°.5/11.6 18	
	h m	° ′			°	m
6 10	19 48.93	−24 10.6	1.704	2.598	13.1	19.5
6 20	19 43.98	−24 41.4	1.634	2.591	9.5	19.3
6 30	19 36.80	−25 14.6	1.586	2.585	5.4	19.0
7 10	19 28.20	−25 46.4	1.564	2.579	1.7	18.7
7 20	19 19.24	−26 13.0	1.568	2.574	4.1	18.9
7 30	19 11.08	−26 31.9	1.597	2.569	8.3	19.1
8 9	19 4.77	−26 42.4	1.650	2.564	12.2	19.4
8 19	19 0.99	−26 45.0	1.723	2.560	15.6	19.6
137024 1998 TH_{15}			7 12.1 166°.79		0°.3/12.2 17	
6 10	19 53.14	−20 4.4	1.898	2.776	12.8	21.5
6 20	19 46.67	−20 18.8	1.831	2.780	9.2	21.2
6 30	19 38.17	−20 37.7	1.788	2.783	5.3	21.0
7 10	19 28.43	−20 58.3	1.770	2.786	1.0	20.7
7 20	19 18.44	−21 18.1	1.781	2.789	3.4	20.9
7 30	19 9.28	−21 35.0	1.819	2.791	7.5	21.2
8 9	19 1.86	−21 48.1	1.882	2.792	11.2	21.4
8 19	18 56.79	−21 57.3	1.967	2.793	14.3	21.6
142451 2002 TG_{1}			7 12.1 342°.78		6°.2/10.2 17	
6 10	19 47.60	−30 37.4	1.037	1.957	17.3	19.6
6 20	19 44.31	−31 44.4	0.976	1.943	13.0	19.3
6 30	19 37.54	−32 49.8	0.934	1.931	8.6	19.0
7 10	19 28.39	−33 44.0	0.913	1.919	6.2	18.8
7 20	19 18.51	−34 18.4	0.913	1.910	8.5	18.9
7 30	19 9.94	−34 29.1	0.933	1.902	13.1	19.1
8 9	19 4.36	−34 17.4	0.972	1.895	17.8	19.4
8 19	19 2.72	−33 47.6	1.027	1.890	21.9	19.6
89945 2002 GZ_{33}			7 12.1 311°.85		0°.6/12.4 18	
6 10	19 47.51	−17 49.9	2.109	2.987	11.6	19.4
6 20	19 42.58	−18 29.0	2.032	2.981	8.5	19.2
6 30	19 35.87	−19 15.6	1.979	2.975	4.9	19.0
7 10	19 28.04	−20 6.7	1.954	2.969	1.1	18.7
7 20	19 19.87	−20 58.8	1.955	2.963	3.1	18.8
7 30	19 12.26	−21 48.8	1.984	2.958	6.8	19.1
8 9	19 6.05	−22 34.1	2.039	2.952	10.3	19.3
8 19	19 1.83	−23 13.3	2.116	2.947	13.3	19.4
315775 2008 FP_{102}			7 12.1 318°.27		2°.4/10.9 18	
6 10	19 48.58	−26 21.8	2.069	2.956	11.4	20.6
6 20	19 43.49	−27 13.7	1.995	2.949	8.3	20.4
6 30	19 36.45	−28 6.8	1.945	2.941	4.9	20.2
7 10	19 28.14	−28 56.9	1.922	2.934	2.5	20.0
7 20	19 19.47	−29 39.7	1.926	2.927	4.3	20.1
7 30	19 11.42	−30 12.6	1.957	2.920	7.7	20.3
8 9	19 4.92	−30 34.7	2.013	2.913	11.0	20.5
8 19	19 0.62	−30 46.6	2.090	2.907	13.9	20.7
432811 2011 GT_{61}			7 12.1 95°.32		15°.0/23.1 17	
6 10	19 50.09	+22 27.9	2.053	2.715	18.8	21.4
6 20	19 44.28	+23 35.9	2.010	2.734	17.5	21.3
6 30	19 36.72	+24 12.6	1.983	2.753	16.3	21.3
7 10	19 28.17	+24 14.2	1.972	2.771	15.4	21.2
7 20	19 19.49	+23 39.9	1.980	2.789	15.0	21.2
7 30	19 11.60	+22 32.2	2.007	2.807	15.1	21.3
8 9	19 5.27	+20 56.8	2.053	2.825	15.7	21.4
8 19	19 1.04	+19 1.6	2.117	2.842	16.6	21.5
101910 1999 RR_{8}			7 12.1 156°.50		3°.4/13.4 18	
6 10	19 52.63	−11 57.7	1.787	2.652	14.1	19.9
6 20	19 46.33	−12 2.4	1.722	2.658	10.6	19.7
6 30	19 38.00	−12 18.9	1.679	2.664	6.8	19.5
7 10	19 28.42	−12 45.7	1.662	2.669	3.7	19.3
7 20	19 18.58	−13 20.4	1.672	2.674	4.5	19.3
7 30	19 9.56	−14 0.0	1.708	2.678	8.0	19.6
8 9	19 2.29	−14 41.4	1.770	2.682	11.6	19.8
8 19	18 57.38	−15 22.1	1.853	2.685	14.8	20.0
319023 2005 VF_{5}			7 12.1 234°.11		0°.8/11.8 17	
6 10	19 49.41	−24 9.0	2.802	3.675	9.3	22.7
6 20	19 43.59	−24 21.2	2.715	3.662	6.7	22.5
6 30	19 36.31	−24 33.9	2.654	3.649	3.8	22.3
7 10	19 28.11	−24 45.1	2.620	3.636	1.0	22.0
7 20	19 19.66	−24 53.2	2.616	3.622	2.7	22.2
7 30	19 11.68	−24 57.0	2.641	3.608	5.8	22.4
8 9	19 4.84	−24 56.4	2.693	3.593	8.6	22.5
8 19	18 59.65	−24 51.6	2.768	3.578	11.1	22.7
162392 2000 CG_{45}			7 12.1 231°.22		3°.5/13.6 18	
6 10	19 49.25	−10 3.7	2.412	3.261	11.4	20.9
6 20	19 43.62	−10 4.9	2.323	3.249	8.8	20.7
6 30	19 36.40	−10 16.3	2.258	3.235	5.9	20.5
7 10	19 28.15	−10 37.2	2.220	3.222	3.7	20.3
7 20	19 19.57	−11 6.5	2.210	3.207	4.2	20.3
7 30	19 11.44	−11 42.0	2.228	3.192	6.8	20.5
8 9	19 4.50	−12 21.3	2.272	3.177	9.8	20.6
8 19	18 59.31	−13 2.1	2.339	3.161	12.5	20.8

423913 2006 SY_{323} 7 12.1 306°.44 0°.7/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 50.16	−19 13.8	1.308	2.208	15.9	21.3
6 20	19 45.55	−19 28.4	1.226	2.185	11.8	21.0
6 30	19 38.05	−19 51.9	1.164	2.163	6.8	20.6
7 10	19 28.50	−20 21.2	1.126	2.141	1.5	20.2
7 20	19 18.16	−20 52.4	1.111	2.120	4.5	20.4
7 30	19 8.61	−21 21.8	1.120	2.099	10.0	20.6
8 9	19 1.30	−21 46.7	1.150	2.078	15.1	20.8
8 19	18 57.21	−22 6.1	1.199	2.058	19.6	21.0

437986 2003 SO_{296} 7 12.1 204°.73 9°.6/15.9 18

6 10	19 49.35	+10 21.6	2.719	3.453	13.1	21.8
6 20	19 43.51	+11 21.7	2.641	3.447	11.8	21.7
6 30	19 36.26	+12 4.1	2.583	3.441	10.5	21.6
7 10	19 28.12	+12 25.7	2.549	3.433	9.7	21.5
7 20	19 19.72	+12 25.4	2.539	3.426	9.7	21.5
7 30	19 11.73	+12 3.7	2.553	3.417	10.3	21.6
8 9	19 4.82	+11 23.4	2.590	3.408	11.6	21.6
8 19	18 59.47	+10 28.6	2.648	3.398	13.0	21.7

485505 2011 SY_{254} 7 12.1 325°.36 5°.6/14.5 18

6 10	19 45.36	− 6 51.6	1.478	2.349	16.1	20.2
6 20	19 41.71	− 7 8.1	1.390	2.324	12.8	19.9
6 30	19 35.73	− 7 46.4	1.321	2.299	9.1	19.6
7 10	19 28.08	− 8 46.7	1.275	2.276	6.1	19.4
7 20	19 19.75	−10 6.2	1.253	2.252	6.3	19.3
7 30	19 11.96	−11 39.4	1.255	2.230	9.7	19.5
8 9	19 5.93	−13 19.2	1.281	2.209	13.9	19.7
8 19	19 2.52	−14 58.7	1.326	2.189	17.9	19.8

353720 2011 WY 7 12.1 317°.51 1°.7/11.4 17

6 10	19 49.24	−25 13.2	2.024	2.911	11.7	20.7
6 20	19 43.93	−25 46.8	1.953	2.907	8.4	20.5
6 30	19 36.68	−26 21.6	1.905	2.902	4.9	20.2
7 10	19 28.21	−26 54.0	1.884	2.898	1.8	20.0
7 20	19 19.43	−27 20.6	1.889	2.893	3.9	20.1
7 30	19 11.35	−27 39.4	1.922	2.889	7.5	20.4
8 9	19 4.86	−27 49.9	1.979	2.885	10.9	20.6
8 19	19 0.58	−27 52.7	2.058	2.881	13.9	20.8

499534 2010 RU_{81} 7 12.1 319°.47 9°.9/ 9.7 17

6 10	19 55.72	−39 51.1	1.179	2.075	17.6	20.7
6 20	19 50.38	−40 53.5	1.113	2.058	14.2	20.4
6 30	19 41.08	−41 42.3	1.066	2.041	11.2	20.2
7 10	19 29.06	−42 6.3	1.039	2.025	9.9	20.1
7 20	19 16.26	−41 57.9	1.034	2.009	11.4	20.1
7 30	19 5.00	−41 16.0	1.050	1.995	14.8	20.2
8 9	18 57.15	−40 6.7	1.085	1.981	18.7	20.4
8 19	18 53.65	−38 39.0	1.137	1.968	22.3	20.6

510493 2011 YF_{15} 7 12.1 187°.06 0°.6/11.8 18

6 10	19 48.32	−21 31.6	2.749	3.622	9.4	21.8
6 20	19 42.83	−22 18.6	2.674	3.621	6.8	21.6
6 30	19 35.90	−23 9.0	2.624	3.620	3.8	21.4
7 10	19 28.07	−24 0.0	2.604	3.619	0.8	21.2
7 20	19 19.98	−24 48.5	2.612	3.618	2.7	21.4
7 30	19 12.35	−25 32.2	2.650	3.616	5.8	21.6
8 9	19 5.84	−26 9.6	2.714	3.614	8.5	21.7
8 19	19 0.95	−26 40.3	2.803	3.612	11.0	21.9

487709 2015 RS_{37} 7 12.1 297°.06 7°.1/ 9.1 18

6 10	19 54.62	−41 53.7	2.234	3.095	11.8	20.9
6 20	19 48.17	−42 42.2	2.147	3.067	9.6	20.7
6 30	19 39.26	−43 20.6	2.083	3.040	7.8	20.6
7 10	19 28.70	−43 42.8	2.044	3.013	7.1	20.5
7 20	19 17.59	−43 44.8	2.031	2.985	8.1	20.5
7 30	19 7.24	−43 25.3	2.043	2.958	10.3	20.6
8 9	18 58.80	−42 46.5	2.078	2.930	12.8	20.7
8 19	18 53.05	−41 52.7	2.134	2.903	15.2	20.8

9428 Angelalouise 7 12.1 292°.39 5°.9/14.9 18

6 10	19 48.02	− 4 16.2	1.820	2.665	14.7	17.5
6 20	19 43.24	− 4 34.8	1.729	2.645	11.8	17.2
6 30	19 36.42	− 5 13.6	1.660	2.626	8.7	17.0
7 10	19 28.20	− 6 12.5	1.615	2.606	6.3	16.8
7 20	19 19.44	− 7 29.2	1.596	2.587	6.3	16.8
7 30	19 11.16	− 8 59.2	1.603	2.568	8.9	16.9
8 9	19 4.36	−10 36.4	1.634	2.549	12.3	17.0
8 19	18 59.78	−12 14.9	1.688	2.530	15.7	17.2

172051 2001 XA_{125} 7 12.1 178°.08 0°.4/12.3 18

6 10	19 49.01	−19 30.7	2.581	3.452	10.0	21.5
6 20	19 43.32	−19 47.6	2.508	3.453	7.3	21.3
6 30	19 36.17	−20 8.2	2.459	3.454	4.1	21.1
7 10	19 28.13	−20 30.6	2.439	3.455	0.9	20.9
7 20	19 19.88	−20 52.9	2.447	3.455	2.6	21.0
7 30	19 12.18	−21 13.5	2.484	3.455	5.8	21.2
8 9	19 5.69	−21 31.2	2.548	3.454	8.8	21.4
8 19	19 0.90	−21 45.7	2.635	3.453	11.3	21.6

189787 2002 EA_2 7 12.1 32°.64 1°.0/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 51.64	−23 0.6	1.690	2.579	13.5	20.9
6 20	19 45.88	−23 25.1	1.624	2.580	9.7	20.6
6 30	19 37.86	−23 52.6	1.582	2.580	5.5	20.4
7 10	19 28.45	−24 19.3	1.564	2.580	1.3	20.1
7 20	19 18.72	−24 41.7	1.573	2.580	3.9	20.3
7 30	19 9.88	−24 57.8	1.608	2.580	8.2	20.6
8 9	19 2.98	−25 6.7	1.667	2.581	12.2	20.8
8 19	18 58.66	−25 9.2	1.747	2.581	15.5	21.0

16364 1979 MA_5 7 12.1 270°.63 2°.3/12.8 18 R

6 10	19 49.34	−15 53.7	2.171	3.041	11.7	18.2
6 20	19 43.80	−15 35.4	2.089	3.031	8.7	18.0
6 30	19 36.54	−15 22.7	2.031	3.021	5.4	17.8
7 10	19 28.21	−15 15.3	2.000	3.011	2.5	17.6
7 20	19 19.58	−15 12.2	1.996	3.001	3.6	17.6
7 30	19 11.55	−15 12.7	2.020	2.991	6.9	17.8
8 9	19 4.91	−15 15.7	2.069	2.980	10.3	18.0
8 19	19 0.23	−15 20.3	2.140	2.970	13.2	18.2

371641 2007 BZ_{26} 7 12.1 262°.39 0°.4/12.3 18

6 10	19 52.65	−19 35.9	1.779	2.660	13.3	21.4
6 20	19 46.74	−19 54.3	1.690	2.640	9.8	21.2
6 30	19 38.48	−20 19.0	1.623	2.620	5.6	20.9
7 10	19 28.59	−20 47.1	1.583	2.598	1.1	20.5
7 20	19 18.11	−21 15.4	1.569	2.577	3.7	20.7
7 30	19 8.23	−21 41.1	1.582	2.555	8.3	20.9
8 9	19 0.10	−22 2.6	1.619	2.532	12.5	21.1
8 19	18 54.52	−22 19.2	1.677	2.509	16.2	21.3

346628 2008 WD_{125} 7 12.1 241°.63 0°.6/11.9 18

6 10	19 51.67	−23 2.7	2.017	2.898	12.0	21.9
6 20	19 45.66	−23 11.6	1.939	2.890	8.7	21.6
6 30	19 37.67	−23 22.1	1.885	2.882	4.9	21.4
7 10	19 28.43	−23 31.8	1.857	2.873	1.0	21.1
7 20	19 18.86	−23 38.3	1.857	2.864	3.4	21.3
7 30	19 10.00	−23 40.5	1.884	2.855	7.3	21.5
8 9	19 2.76	−23 37.9	1.937	2.846	11.0	21.7
8 19	18 57.78	−23 31.3	2.011	2.837	14.1	21.9

375740 2009 RU_{58} 7 12.1 170°.81 7°.8/ 8.8 17

6 10	19 59.58	−43 12.2	2.152	3.004	12.5	21.8
6 20	19 51.68	−44 23.6	2.096	3.008	10.2	21.7
6 30	19 41.18	−45 22.5	2.063	3.011	8.4	21.5
7 10	19 29.06	−46 2.1	2.056	3.014	7.9	21.5
7 20	19 16.58	−46 18.3	2.075	3.016	8.8	21.6
7 30	19 5.17	−46 10.5	2.119	3.017	10.7	21.7
8 9	18 56.00	−45 42.0	2.185	3.018	12.9	21.9
8 19	18 49.80	−44 57.9	2.272	3.018	15.0	22.0

316817 1999 VO_{207} 7 12.1 247°.98 4°.4/13.8 18

6 10	19 47.38	− 7 42.2	2.564	3.405	11.0	21.7
6 20	19 42.17	− 7 17.3	2.479	3.395	8.7	21.5
6 30	19 35.55	− 7 2.1	2.417	3.384	6.3	21.4
7 10	19 28.04	− 6 57.2	2.382	3.373	4.6	21.2
7 20	19 20.28	− 7 2.3	2.375	3.362	4.9	21.2
7 30	19 12.97	− 7 16.5	2.395	3.350	6.9	21.3
8 9	19 6.75	− 7 37.8	2.440	3.339	9.4	21.5
8 19	19 2.13	− 8 4.2	2.509	3.327	11.8	21.6

126047 2001 YW_{72} 7 12.1 186°.26 0°.8/11.8 18

6 10	19 52.20	−22 15.5	1.985	2.865	12.2	20.4
6 20	19 46.05	−22 49.0	1.915	2.865	8.8	20.2
6 30	19 37.89	−23 26.0	1.868	2.865	5.0	20.0
7 10	19 28.47	−24 2.9	1.848	2.864	1.1	19.7
7 20	19 18.74	−24 36.2	1.856	2.863	3.5	19.9
7 30	19 9.73	−25 3.5	1.892	2.861	7.4	20.1
8 9	19 2.39	−25 23.6	1.952	2.859	11.0	20.3
8 19	18 57.33	−25 36.9	2.035	2.856	14.1	20.5

519530 2012 JW_{67} 7 12.1 12°.43 1°.0/12.4 17

6 10	19 48.49	−18 31.6	1.187	2.093	16.7	20.6
6 20	19 44.16	−18 48.9	1.133	2.095	12.2	20.3
6 30	19 37.09	−19 15.9	1.099	2.099	7.0	20.0
7 10	19 28.34	−19 49.0	1.088	2.104	1.7	19.7
7 20	19 19.27	−20 23.8	1.100	2.109	4.4	19.9
7 30	19 11.38	−20 56.4	1.134	2.116	9.6	20.2
8 9	19 5.90	−21 24.1	1.191	2.123	14.4	20.5
8 19	19 3.52	−21 45.8	1.265	2.132	18.3	20.8

381583 2008 UW_{239} 7 12.1 84°.86 1°.0/11.9 17

6 10	19 53.13	−24 37.4	1.802	2.688	13.0	20.5
6 20	19 46.71	−24 37.2	1.743	2.696	9.3	20.3
6 30	19 38.21	−24 36.8	1.707	2.705	5.3	20.1
7 10	19 28.53	−24 33.7	1.698	2.713	1.3	19.8
7 20	19 18.71	−24 26.1	1.715	2.722	3.7	20.0
7 30	19 9.88	−24 13.5	1.759	2.730	7.7	20.3
8 9	19 2.96	−23 56.5	1.827	2.739	11.4	20.5
8 19	18 58.51	−23 36.4	1.917	2.747	14.5	20.7

6408 Saijo 7 12.1 351°.88 0°.9/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 49.31	−18 47.0	1.889	2.772	12.6	16.6
6 20	19 43.98	−18 54.5	1.820	2.771	9.2	16.4
6 30	19 36.71	−19 7.5	1.774	2.770	5.3	16.2
7 10	19 28.27	−19 24.0	1.754	2.769	1.4	15.9
7 20	19 19.57	−19 41.8	1.761	2.769	3.3	16.1
7 30	19 11.61	−19 58.9	1.794	2.768	7.3	16.3
8 9	19 5.27	−20 13.9	1.852	2.768	11.0	16.5
8 19	19 1.15	−20 26.2	1.931	2.768	14.1	16.7

86165 1999 RZ_{207} 7 12.1 9°.51 0°.6/11.9 18

6 10	19 50.52	−24 9.9	1.973	2.858	12.0	18.7
6 20	19 44.76	−24 0.8	1.906	2.859	8.7	18.5
6 30	19 37.10	−23 51.6	1.862	2.860	4.9	18.2
7 10	19 28.34	−23 40.6	1.845	2.861	1.0	18.0
7 20	19 19.41	−23 26.3	1.856	2.863	3.3	18.2
7 30	19 11.30	−23 8.6	1.893	2.865	7.2	18.4
8 9	19 4.87	−22 47.9	1.955	2.867	10.7	18.6
8 19	19 0.66	−22 25.2	2.038	2.870	13.7	18.8

521236 2015 HK_{189} 7 12.1 303°.15 0°.2/12.1 17

6 10	19 51.40	−22 27.5	1.732	2.620	13.3	21.5
6 20	19 45.70	−22 27.2	1.659	2.613	9.6	21.2
6 30	19 37.78	−22 29.0	1.609	2.606	5.5	21.0
7 10	19 28.48	−22 30.5	1.584	2.600	1.0	20.6
7 20	19 18.85	−22 29.7	1.585	2.594	3.6	20.8
7 30	19 10.06	−22 25.5	1.613	2.587	8.0	21.1
8 9	19 3.13	−22 17.7	1.665	2.581	12.0	21.3
8 19	18 58.73	−22 6.9	1.738	2.575	15.4	21.5

184719 2005 SC_{162} 7 12.1 334°.56 5°.1/10.5 18

6 10	19 51.63	−34 21.4	1.857	2.743	12.6	20.3
6 20	19 45.96	−34 57.5	1.789	2.735	9.6	20.1
6 30	19 37.97	−35 26.9	1.744	2.729	6.7	19.9
7 10	19 28.54	−35 44.6	1.724	2.722	5.1	19.8
7 20	19 18.77	−35 47.0	1.730	2.716	6.4	19.9
7 30	19 9.93	−35 33.4	1.761	2.711	9.4	20.0
8 9	19 3.07	−35 5.5	1.815	2.706	12.5	20.2
8 19	18 58.87	−34 26.7	1.890	2.701	15.4	20.4

500148 2012 DS_{45} 7 12.1 70°.78 1°.4/11.7 17

6 10	19 54.21	−23 19.7	1.384	2.280	15.5	21.5
6 20	19 47.92	−23 55.8	1.339	2.297	11.1	21.3
6 30	19 39.05	−24 34.9	1.316	2.315	6.2	21.1
7 10	19 28.71	−25 11.5	1.317	2.333	1.7	20.9
7 20	19 18.26	−25 41.3	1.344	2.350	4.5	21.1
7 30	19 9.11	−26 1.8	1.395	2.368	9.2	21.4
8 9	19 2.35	−26 12.7	1.470	2.386	13.3	21.7
8 19	18 58.59	−26 15.4	1.564	2.404	16.7	22.0

431057 2006 BL_{135} 7 12.1 24°.51 1°.4/11.8 17

6 10	19 50.20	−23 57.1	1.316	2.220	15.5	20.3
6 20	19 45.19	−24 17.6	1.267	2.229	11.2	20.0
6 30	19 37.59	−24 40.2	1.238	2.238	6.3	19.8
7 10	19 28.47	−25 0.8	1.233	2.249	1.7	19.5
7 20	19 19.16	−25 15.7	1.252	2.260	4.5	19.8
7 30	19 11.08	−25 22.8	1.295	2.272	9.3	20.1
8 9	19 5.36	−25 22.2	1.361	2.285	13.6	20.3
8 19	19 2.60	−25 15.0	1.445	2.298	17.2	20.6

425630 2010 VO_{101} 7 12.1 194°.90 1°.0/12.5 17

6 10	19 53.43	−18 22.4	1.854	2.730	13.1	22.4
6 20	19 47.02	−18 30.9	1.781	2.728	9.6	22.2
6 30	19 38.49	−18 45.2	1.732	2.726	5.6	21.9
7 10	19 28.64	−19 3.2	1.708	2.723	1.5	21.6
7 20	19 18.46	−19 22.4	1.712	2.720	3.5	21.8
7 30	19 9.05	−19 40.7	1.743	2.716	7.7	22.0
8 9	19 1.40	−19 56.8	1.799	2.711	11.5	22.2
8 19	18 56.14	−20 10.1	1.877	2.706	14.8	22.5

181849 1998 UM_{17} 7 12.1 307°.12 5°.7/10.2 18

6 10	19 53.02	−31 54.4	1.402	2.300	15.1	19.6
6 20	19 47.72	−32 56.9	1.331	2.286	11.4	19.3
6 30	19 39.33	−33 56.3	1.281	2.272	7.7	19.1
7 10	19 28.84	−34 44.6	1.255	2.258	5.7	18.9
7 20	19 17.65	−35 14.9	1.253	2.244	7.6	19.0
7 30	19 7.49	−35 24.2	1.275	2.231	11.6	19.2
8 9	18 59.85	−35 13.9	1.317	2.218	15.6	19.4
8 19	18 55.66	−34 47.8	1.378	2.206	19.2	19.6

186859 2004 GW_{56} 7 12.1 309°.01 5°.9/10.4 18

6 10	19 53.91	−33 8.8	1.418	2.314	15.2	19.6
6 20	19 48.30	−34 1.0	1.350	2.303	11.5	19.4
6 30	19 39.62	−34 47.8	1.303	2.291	7.9	19.1
7 10	19 28.89	−35 21.4	1.279	2.280	5.9	19.0
7 20	19 17.58	−35 36.1	1.279	2.269	7.7	19.1
7 30	19 7.39	−35 29.8	1.303	2.259	11.4	19.2
8 9	18 59.77	−35 4.8	1.348	2.249	15.4	19.5
8 19	18 55.58	−34 25.7	1.412	2.239	18.9	19.7

285153 1995 UA_{70} 7 12.1 288°.88 5°.2/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 47.93	− 7 47.2	2.115	2.965	12.7	20.4
6 20	19 42.86	− 7 15.2	2.032	2.952	10.1	20.2
6 30	19 36.08	− 6 54.5	1.971	2.940	7.3	20.0
7 10	19 28.22	− 6 46.2	1.936	2.928	5.4	19.9
7 20	19 20.03	− 6 50.2	1.927	2.915	5.7	19.9
7 30	19 12.38	− 7 5.4	1.944	2.903	8.1	20.0
8 9	19 6.05	− 7 29.4	1.986	2.890	11.0	20.2
8 19	19 1.63	− 7 59.7	2.050	2.878	13.8	20.3

395855 2013 AN_{1} 7 12.2 186°.72 1°.1/11.7 18

6 10	19 50.38	−24 0.6	2.264	3.144	10.9	21.9
6 20	19 44.56	−24 24.0	2.193	3.144	7.9	21.7
6 30	19 37.00	−24 48.6	2.147	3.143	4.5	21.5
7 10	19 28.39	−25 11.7	2.128	3.143	1.2	21.3
7 20	19 19.53	−25 30.7	2.136	3.142	3.3	21.5
7 30	19 11.32	−25 44.0	2.173	3.141	6.7	21.7
8 9	19 4.56	−25 51.1	2.235	3.139	9.9	21.9
8 19	18 59.81	−25 52.7	2.319	3.138	12.7	22.1

434226 2003 SB_{226} 7 12.2 307°.42 4°.3/10.6 18

6 10	19 51.63	−29 57.9	1.588	2.483	13.9	20.7
6 20	19 46.52	−30 44.9	1.501	2.456	10.4	20.4
6 30	19 38.62	−31 31.0	1.436	2.429	6.7	20.1
7 10	19 28.75	−32 9.8	1.395	2.402	4.3	19.9
7 20	19 18.10	−32 35.7	1.379	2.376	6.3	20.0
7 30	19 8.18	−32 45.6	1.388	2.350	10.4	20.1
8 9	19 0.36	−32 39.7	1.419	2.324	14.5	20.3
8 19	18 55.61	−32 20.6	1.469	2.298	18.2	20.5

216647 2003 QZ_{103} 7 12.2 322°.37 4°.4/10.9 18

6 10	19 51.28	−28 26.8	1.168	2.078	16.6	19.5
6 20	19 46.78	−29 16.4	1.099	2.063	12.3	19.2
6 30	19 38.95	−30 6.3	1.050	2.048	7.6	18.9
7 10	19 28.81	−30 48.8	1.024	2.034	4.4	18.7
7 20	19 17.93	−31 16.8	1.020	2.021	6.9	18.8
7 30	19 8.19	−31 26.7	1.038	2.009	11.8	19.0
8 9	19 1.21	−31 19.2	1.076	1.997	16.7	19.3
8 19	18 57.98	−30 57.7	1.132	1.986	20.8	19.5

150632 2001 BY_{6} 7 12.2 257°.85 2°.1/11.2 18

6 10	19 49.79	−26 57.4	2.421	3.301	10.3	20.2
6 20	19 44.19	−27 30.2	2.338	3.288	7.5	20.0
6 30	19 36.85	−28 2.8	2.281	3.275	4.4	19.8
7 10	19 28.39	−28 31.9	2.250	3.262	2.1	19.6
7 20	19 19.59	−28 54.9	2.248	3.248	3.7	19.7
7 30	19 11.33	−29 9.8	2.273	3.235	6.9	19.8
8 9	19 4.41	−29 16.4	2.324	3.221	9.9	20.0
8 19	18 59.43	−29 15.4	2.397	3.207	12.6	20.2

445531 2011 BH_{11} 7 12.2 294°.62 5°.6/12.7 17

6 10	19 51.77	− 8 49.9	2.204	3.049	12.5	20.5
6 20	19 45.62	− 7 33.8	2.109	3.027	9.9	20.3
6 30	19 37.67	− 6 24.5	2.039	3.004	7.4	20.1
7 10	19 28.55	− 5 24.5	1.995	2.982	5.7	19.9
7 20	19 19.03	− 4 35.9	1.979	2.960	6.3	19.9
7 30	19 10.01	− 4 0.0	1.991	2.938	8.7	20.0
8 9	19 2.33	− 3 36.5	2.027	2.916	11.5	20.2
8 19	18 56.60	− 3 24.0	2.086	2.894	14.3	20.3

305412 2008 CP_{105} 7 12.2 217°.79 4°.4/10.5 18

6 10	19 53.27	−34 49.1	2.305	3.178	11.0	21.2
6 20	19 46.77	−35 20.4	2.235	3.174	8.3	21.0
6 30	19 38.31	−35 45.3	2.189	3.170	5.8	20.9
7 10	19 28.65	−35 59.7	2.170	3.166	4.4	20.8
7 20	19 18.74	−36 0.8	2.178	3.162	5.6	20.8
7 30	19 9.62	−35 48.0	2.213	3.157	8.1	21.0
8 9	19 2.17	−35 22.9	2.273	3.152	10.8	21.2
8 19	18 56.99	−34 48.3	2.354	3.147	13.3	21.3

32410 2000 RH_{19} 7 12.2 222°.12 0°.2/12.2 18

6 10	19 50.64	−21 32.8	2.292	3.168	10.9	19.2
6 20	19 44.68	−21 25.1	2.216	3.164	7.9	19.0
6 30	19 37.06	−21 19.1	2.165	3.160	4.5	18.8
7 10	19 28.43	−21 13.4	2.141	3.157	0.9	18.5
7 20	19 19.58	−21 6.6	2.145	3.153	2.9	18.6
7 30	19 11.39	−20 58.3	2.177	3.148	6.5	18.9
8 9	19 4.61	−20 48.3	2.235	3.144	9.7	19.1
8 19	18 59.77	−20 36.9	2.316	3.140	12.5	19.3

304508 2006 UP_{195} 7 12.2 243°.96 1°.2/11.7 18

6 10	19 50.13	−24 20.8	2.149	3.032	11.3	21.5
6 20	19 44.51	−24 45.0	2.076	3.027	8.2	21.3
6 30	19 37.05	−25 10.5	2.026	3.023	4.6	21.0
7 10	19 28.44	−25 34.3	2.004	3.019	1.4	20.8
7 20	19 19.55	−25 53.6	2.009	3.014	3.5	20.9
7 30	19 11.32	−26 6.7	2.041	3.010	7.0	21.2
8 9	19 4.60	−26 13.2	2.099	3.005	10.4	21.4
8 19	18 59.98	−26 13.6	2.178	3.000	13.3	21.5

338634 2003 SE_{283} 7 12.2 304.°62 5.°0/13.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 51.17	−11 33.6	1.708	2.576	14.4	19.8
6 20	19 45.49	−10 39.1	1.633	2.568	11.2	19.6
6 30	19 37.70	− 9 53.6	1.579	2.560	7.7	19.4
7 10	19 28.57	− 9 18.9	1.551	2.552	5.2	19.2
7 20	19 19.10	− 8 55.9	1.549	2.544	6.0	19.2
7 30	19 10.40	− 8 44.4	1.572	2.536	9.1	19.4
8 9	19 3.44	− 8 43.0	1.618	2.529	12.7	19.6
8 19	18 58.88	− 8 49.6	1.686	2.521	15.9	19.8

164180 2004 BD_{52} 7 12.2 236.°56 2.°0/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 49.19	−14 1.1	2.227	3.092	11.6	20.3
6 20	19 43.77	−14 22.8	2.143	3.082	8.7	20.1
6 30	19 36.64	−14 53.7	2.084	3.073	5.4	19.9
7 10	19 28.39	−15 32.1	2.051	3.062	2.4	19.7
7 20	19 19.79	−16 15.3	2.046	3.052	3.3	19.7
7 30	19 11.70	−17 0.6	2.069	3.041	6.7	19.9
8 9	19 4.92	−17 45.5	2.119	3.030	10.0	20.1
8 19	19 0.04	−18 27.7	2.191	3.019	13.0	20.3

279745 1998 KG_{39} 7 12.2 33.°51 6.°5/13.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 51.02	− 9 11.0	1.501	2.370	16.0	19.5
6 20	19 45.40	− 8 5.2	1.446	2.378	12.6	19.3
6 30	19 37.61	− 7 12.6	1.412	2.386	9.1	19.1
7 10	19 28.55	− 6 35.9	1.401	2.395	6.7	19.0
7 20	19 19.34	− 6 15.8	1.415	2.404	7.2	19.1
7 30	19 11.12	− 6 11.7	1.453	2.414	10.0	19.3
8 9	19 4.87	− 6 20.7	1.514	2.424	13.4	19.5
8 19	19 1.16	− 6 39.2	1.594	2.435	16.4	19.7

169560 2002 ES_{139} 7 12.2 107.°20 1.°0/12.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 53.30	−18 5.4	1.439	2.327	15.4	20.1
6 20	19 47.31	−18 25.5	1.380	2.333	11.3	19.8
6 30	19 38.81	−18 54.2	1.344	2.340	6.5	19.6
7 10	19 28.79	−19 27.9	1.331	2.347	1.6	19.3
7 20	19 18.47	−20 2.7	1.344	2.353	4.0	19.5
7 30	19 9.21	−20 35.3	1.383	2.359	8.8	19.8
8 9	19 2.16	−21 3.5	1.445	2.365	13.2	20.0
8 19	18 57.98	−21 26.3	1.526	2.371	16.8	20.3

509357 2007 AZ_{19} 7 12.2 117.°60 0.°6/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 49.13	−21 54.9	2.544	3.418	10.0	21.9
6 20	19 43.46	−22 34.4	2.482	3.431	7.2	21.8
6 30	19 36.33	−23 16.5	2.447	3.443	4.0	21.6
7 10	19 28.32	−23 58.5	2.439	3.455	0.9	21.4
7 20	19 20.14	−24 37.4	2.460	3.466	2.8	21.5
7 30	19 12.54	−25 11.3	2.510	3.477	6.0	21.8
8 9	19 6.21	−25 39.1	2.586	3.488	8.8	22.0
8 19	19 1.62	−26 0.5	2.685	3.499	11.3	22.2

107689 2001 FE_{13} 7 12.2 84.°02 1.°5/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 53.23	−17 8.7	1.462	2.348	15.4	19.6
6 20	19 47.10	−17 23.9	1.411	2.362	11.2	19.4
6 30	19 38.61	−17 47.9	1.381	2.377	6.6	19.2
7 10	19 28.75	−18 17.8	1.376	2.391	2.0	18.9
7 20	19 18.71	−18 49.8	1.397	2.405	4.0	19.1
7 30	19 9.80	−19 20.9	1.443	2.420	8.6	19.4
8 9	19 3.05	−19 48.9	1.513	2.434	12.7	19.7
8 19	18 59.07	−20 12.6	1.603	2.447	16.2	19.9

61440 2000 QE_{23} 7 12.2 331.°99 6.°0/14.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 46.60	− 6 4.0	1.817	2.671	14.3	18.8
6 20	19 42.13	− 5 46.4	1.741	2.662	11.4	18.6
6 30	19 35.79	− 5 44.5	1.687	2.654	8.4	18.4
7 10	19 28.25	− 5 59.1	1.656	2.647	6.2	18.3
7 20	19 20.37	− 6 29.3	1.651	2.640	6.4	18.3
7 30	19 13.11	− 7 12.5	1.670	2.633	8.8	18.4
8 9	19 7.34	− 8 4.8	1.714	2.627	11.9	18.6
8 19	19 3.71	− 9 1.9	1.778	2.621	14.9	18.8

424253 2007 RG_{299} 7 12.2 233.°30 0.°1/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 54.86	−21 17.8	1.592	2.477	14.4	22.3
6 20	19 48.48	−21 26.1	1.516	2.469	10.5	22.0
6 30	19 39.56	−21 38.5	1.462	2.459	6.0	21.7
7 10	19 28.96	−21 51.9	1.434	2.450	1.1	21.4
7 20	19 17.88	−22 3.4	1.431	2.439	3.9	21.6
7 30	19 7.69	−22 10.9	1.455	2.429	8.8	21.8
8 9	18 59.56	−22 14.0	1.503	2.418	13.1	22.1
8 19	18 54.28	−22 13.0	1.570	2.406	16.9	22.3

358429 2007 DK_{15} 7 12.2 39.°53 4.°0/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 51.43	−32 57.5	2.172	3.052	11.3	20.7
6 20	19 45.48	−33 27.8	2.110	3.055	8.4	20.5
6 30	19 37.59	−33 52.9	2.072	3.058	5.6	20.4
7 10	19 28.57	−34 8.6	2.060	3.061	4.0	20.3
7 20	19 19.36	−34 12.3	2.075	3.065	5.3	20.4
7 30	19 10.97	−34 3.5	2.117	3.068	8.0	20.5
8 9	19 4.28	−33 43.5	2.183	3.072	10.8	20.7
8 19	18 59.83	−33 14.6	2.271	3.075	13.3	20.9

195265 2002 EX_{56} 7 12.2 49.°67 1.°7/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 50.81	−17 9.0	1.609	2.493	14.3	20.2
6 20	19 45.28	−17 10.1	1.548	2.499	10.5	20.0
6 30	19 37.58	−17 18.8	1.510	2.505	6.2	19.8
7 10	19 28.58	−17 33.4	1.497	2.511	2.2	19.5
7 20	19 19.35	−17 51.3	1.510	2.517	3.8	19.7
7 30	19 11.05	−18 10.4	1.548	2.524	8.1	19.9
8 9	19 4.65	−18 28.8	1.610	2.531	12.1	20.2
8 19	19 0.78	−18 45.3	1.693	2.537	15.5	20.4

36720 2000 RE_{42} 7 12.2 206.°24 3.°1/11.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 55.52	−30 29.0	2.094	2.971	11.8	19.2
6 20	19 48.48	−30 45.7	2.020	2.966	8.7	19.0
6 30	19 39.34	−30 58.0	1.971	2.962	5.4	18.8
7 10	19 28.90	−31 2.3	1.948	2.956	3.1	18.6
7 20	19 18.19	−30 56.0	1.953	2.951	4.7	18.7
7 30	19 8.33	−30 38.7	1.986	2.944	7.9	18.9
8 9	19 0.27	−30 11.8	2.044	2.938	11.2	19.1
8 19	18 54.64	−29 38.0	2.123	2.931	14.1	19.3

292402 2006 SG_{283} 7 12.2 302.°04 2.°3/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 51.95	−24 54.6	1.339	2.240	15.5	20.9
6 20	19 47.04	−25 30.7	1.256	2.217	11.4	20.6
6 30	19 39.08	−26 10.7	1.194	2.193	6.7	20.3
7 10	19 28.93	−26 49.1	1.155	2.169	2.5	20.0
7 20	19 17.91	−27 20.2	1.141	2.146	5.3	20.1
7 30	19 7.70	−27 40.0	1.150	2.123	10.6	20.3
8 9	18 59.85	−27 47.6	1.180	2.101	15.5	20.5
8 19	18 55.37	−27 44.5	1.229	2.079	19.8	20.7

290935 2005 WT_{140} 7 12.2 176.°63 1.°6/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 54.63	−19 30.8	1.833	2.710	13.2	20.4
6 20	19 47.82	−18 55.9	1.763	2.710	9.7	20.1
6 30	19 38.94	−18 23.6	1.717	2.711	5.7	19.9
7 10	19 28.83	−17 53.3	1.697	2.711	1.9	19.6
7 20	19 18.52	−17 25.0	1.705	2.712	3.7	19.8
7 30	19 9.11	−16 58.8	1.740	2.712	7.8	20.0
8 9	19 1.54	−16 35.2	1.800	2.711	11.5	20.2
8 19	18 56.40	−16 14.3	1.881	2.711	14.7	20.5

241736 2000 WC_{136} 7 12.2 284.°12 1.°8/11.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 54.11	−24 50.3	1.408	2.304	15.2	20.7
6 20	19 48.42	−25 9.6	1.327	2.284	11.2	20.4
6 30	19 39.76	−25 30.9	1.266	2.265	6.5	20.1
7 10	19 29.04	−25 49.4	1.230	2.245	2.0	19.7
7 20	19 17.59	−26 1.0	1.218	2.225	4.9	19.9
7 30	19 7.02	−26 3.1	1.231	2.205	10.0	20.1
8 9	18 58.77	−25 55.9	1.267	2.185	14.8	20.3
8 19	18 53.79	−25 41.3	1.321	2.165	19.0	20.5

159632 2002 CB_{18} 7 12.2 130.°06 1.°3/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 52.61	−23 39.8	1.836	2.720	12.8	20.4
6 20	19 46.48	−24 13.3	1.774	2.727	9.2	20.2
6 30	19 38.23	−24 49.1	1.736	2.733	5.2	20.0
7 10	19 28.71	−25 23.1	1.724	2.739	1.5	19.8
7 20	19 18.94	−25 51.8	1.739	2.745	3.8	20.0
7 30	19 10.03	−26 12.9	1.781	2.751	7.8	20.2
8 9	19 2.95	−26 25.9	1.848	2.756	11.5	20.4
8 19	18 58.32	−26 31.5	1.936	2.761	14.6	20.7

255849 2006 SS_{142} 7 12.2 16.°50 2.°7/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 49.68	−25 16.4	1.015	1.933	17.8	19.6
6 20	19 45.47	−25 51.5	0.969	1.938	12.9	19.3
6 30	19 38.06	−26 28.6	0.943	1.944	7.4	19.1
7 10	19 28.70	−27 1.3	0.937	1.952	2.8	18.8
7 20	19 19.06	−27 23.9	0.954	1.961	5.8	19.0
7 30	19 10.92	−27 33.6	0.992	1.971	11.1	19.3
8 9	19 5.67	−27 31.2	1.050	1.982	15.9	19.7
8 19	19 3.99	−27 18.6	1.125	1.994	19.9	20.0

402293 2005 SB_{207} 7 12.2 292.°49 4.°2/13.5 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 48.13	−10 8.4	2.112	2.970	12.4	21.4
6 20	19 43.14	− 9 48.1	2.019	2.948	9.7	21.2
6 30	19 36.37	− 9 37.9	1.948	2.925	6.7	21.0
7 10	19 28.40	− 9 38.3	1.903	2.903	4.5	20.8
7 20	19 20.00	− 9 48.9	1.884	2.880	5.0	20.8
7 30	19 12.07	−10 8.2	1.892	2.858	7.8	20.9
8 9	19 5.44	−10 34.3	1.925	2.835	11.0	21.1
8 19	19 0.76	−11 4.5	1.980	2.812	14.0	21.2

127267 2002 JY_{53} 7 12.2 97.°35 1.°9/11.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 53.19	−25 53.6	1.819	2.705	12.8	19.9
6 20	19 46.86	−26 20.6	1.763	2.716	9.3	19.7
6 30	19 38.42	−26 47.4	1.731	2.728	5.3	19.5
7 10	19 28.75	−27 9.9	1.725	2.739	2.1	19.3
7 20	19 18.91	−27 25.2	1.746	2.750	4.1	19.5
7 30	19 10.05	−27 31.8	1.794	2.761	7.9	19.7
8 9	19 3.09	−27 30.0	1.866	2.772	11.5	20.0
8 19	18 58.62	−27 21.4	1.959	2.783	14.5	20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
482328 2011 UH_{297}			7 12.2 270°.77		1°.4/12.7 18	
	h m	° ′			°	m
6 10	19 48.82	−16 58.8	2.104	2.979	11.8	21.8
6 20	19 43.55	−17 6.3	2.029	2.975	8.7	21.6
6 30	19 36.53	−17 20.4	1.977	2.970	5.2	21.4
7 10	19 28.42	−17 39.2	1.952	2.966	1.8	21.1
7 20	19 20.03	−18 0.9	1.955	2.962	3.2	21.2
7 30	19 12.26	−18 23.3	1.984	2.958	6.8	21.5
8 9	19 5.92	−18 44.9	2.039	2.954	10.2	21.7
8 19	19 1.57	−19 4.5	2.117	2.949	13.2	21.8
382938 2004 TK_{194}			7 12.2 184°.32		4°.4/13.9 18	
6 10	19 50.48	− 7 27.3	2.496	3.332	11.5	21.9
6 20	19 44.43	− 7 8.9	2.419	3.332	9.0	21.7
6 30	19 36.91	− 7 1.0	2.366	3.332	6.5	21.6
7 10	19 28.48	− 7 3.8	2.340	3.331	4.6	21.5
7 20	19 19.84	− 7 16.7	2.342	3.330	4.9	21.5
7 30	19 11.72	− 7 38.4	2.372	3.327	7.0	21.6
8 9	19 4.80	− 8 6.5	2.428	3.324	9.6	21.8
8 19	18 59.58	− 8 38.7	2.507	3.321	12.0	21.9
158401 2001 YZ_{111}			7 12.2 67°.31		6°.0/ 9.8 17	
6 10	19 56.01	−33 4.2	1.556	2.445	14.5	19.3
6 20	19 49.30	−34 32.0	1.521	2.468	10.9	19.2
6 30	19 39.94	−35 52.7	1.508	2.492	7.5	19.0
7 10	19 29.04	−36 58.2	1.520	2.516	6.0	19.0
7 20	19 17.98	−37 43.1	1.557	2.539	7.5	19.1
7 30	19 8.24	−38 5.6	1.619	2.563	10.6	19.4
8 9	19 0.96	−38 8.2	1.704	2.586	13.7	19.6
8 19	18 56.75	−37 55.1	1.808	2.609	16.4	19.8
41509 2000 QL_{169}			7 12.2 136°.84		2°.4/13.0 18	
6 10	19 51.85	−14 47.3	1.917	2.786	13.0	19.4
6 20	19 45.74	−14 44.9	1.853	2.794	9.7	19.2
6 30	19 37.75	−14 50.8	1.813	2.802	6.0	19.0
7 10	19 28.64	−15 3.6	1.798	2.809	2.8	18.8
7 20	19 19.34	−15 21.5	1.811	2.816	3.8	18.9
7 30	19 10.82	−15 42.4	1.851	2.823	7.4	19.1
8 9	19 3.95	−16 4.5	1.916	2.829	10.9	19.4
8 19	18 59.28	−16 26.2	2.003	2.835	13.9	19.6
186007 Guilleminet			7 12.2 346°.36		0°.3/12.1 17	
6 10	19 47.77	−21 49.4	1.121	2.034	16.9	20.1
6 20	19 44.03	−21 58.8	1.057	2.024	12.3	19.8
6 30	19 37.30	−22 14.0	1.013	2.015	7.0	19.5
7 10	19 28.61	−22 31.2	0.991	2.007	1.3	19.1
7 20	19 19.39	−22 46.6	0.990	2.000	4.7	19.3
7 30	19 11.30	−22 57.2	1.012	1.995	10.3	19.6
8 9	19 5.76	−23 1.9	1.055	1.991	15.4	19.9
8 19	19 3.59	−23 0.8	1.114	1.988	19.7	20.1
440996 2007 DX_{33}			7 12.2 101°.51		3°.5/13.9 18	
6 10	19 46.91	− 9 20.0	2.402	3.253	11.4	20.7
6 20	19 41.92	− 9 27.8	2.333	3.258	8.7	20.5
6 30	19 35.51	− 9 46.3	2.287	3.263	6.0	20.3
7 10	19 28.23	−10 14.8	2.268	3.269	3.8	20.2
7 20	19 20.77	−10 51.4	2.276	3.274	4.1	20.2
7 30	19 13.85	−11 33.9	2.312	3.279	6.5	20.4
8 9	19 8.12	−12 19.5	2.375	3.284	9.2	20.6
8 19	19 4.05	−13 5.7	2.460	3.289	11.7	20.8
238268 2003 WY_{58}			7 12.2 299°.46		3°.0/13.0 17	
6 10	19 49.81	−14 25.7	1.802	2.677	13.5	20.6
6 20	19 44.49	−14 10.9	1.727	2.671	10.1	20.4
6 30	19 37.15	−14 4.6	1.675	2.664	6.4	20.1
7 10	19 28.55	−14 6.4	1.649	2.658	3.3	19.9
7 20	19 19.62	−14 14.9	1.648	2.652	4.3	20.0
7 30	19 11.41	−14 28.6	1.673	2.646	7.9	20.2
8 9	19 4.84	−14 45.5	1.723	2.640	11.6	20.4
8 19	19 0.56	−15 3.8	1.794	2.635	14.9	20.6
187629 2007 BY_{43}			7 12.2 276°.28		1°.2/12.6 18	
6 10	19 52.06	−18 0.9	1.665	2.548	14.0	20.6
6 20	19 46.52	−18 12.9	1.575	2.526	10.4	20.4
6 30	19 38.53	−18 32.9	1.508	2.504	6.1	20.1
7 10	19 28.85	−18 58.4	1.466	2.481	1.7	19.7
7 20	19 18.50	−19 26.4	1.450	2.458	3.9	19.8
7 30	19 8.77	−19 54.2	1.460	2.435	8.6	20.0
8 9	19 0.85	−20 19.5	1.494	2.412	13.0	20.2
8 19	18 55.57	−20 41.1	1.549	2.389	16.9	20.4
318251 2004 RQ_{315}			7 12.2 296°.50		8°.9/ 7.4 18	
6 10	19 55.59	−45 53.7	2.169	3.020	12.4	20.3
6 20	19 49.22	−47 10.0	2.095	2.999	10.6	20.2
6 30	19 40.12	−48 14.2	2.043	2.979	9.2	20.0
7 10	19 29.14	−48 58.8	2.015	2.958	8.9	20.0
7 20	19 17.51	−49 19.0	2.012	2.938	9.9	20.0
7 30	19 6.71	−49 13.2	2.033	2.918	11.7	20.1
8 9	18 58.06	−48 43.9	2.075	2.898	13.9	20.2
8 19	18 52.41	−47 55.9	2.136	2.878	16.0	20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
360125 2013 CA_{30}			7 12.2 226°.69		0°.7/11.9 18	
	h m	° ′			°	m
6 10	19 49.52	−22 33.4	2.197	3.077	11.1	21.1
6 20	19 44.05	−23 0.0	2.124	3.075	8.0	20.9
6 30	19 36.82	−23 29.2	2.076	3.073	4.5	20.7
7 10	19 28.50	−23 58.3	2.055	3.071	1.0	20.5
7 20	19 19.90	−24 24.5	2.062	3.068	3.2	20.6
7 30	19 11.94	−24 45.8	2.096	3.066	6.8	20.8
8 9	19 5.41	−25 1.3	2.155	3.063	10.1	21.0
8 19	19 0.89	−25 11.0	2.237	3.061	12.9	21.2
333295 2000 SE_{11}			7 12.2 314°.33		12°.2/16.4 16	
6 10	19 46.89	+ 5 38.3	1.532	2.344	18.5	20.4
6 20	19 42.74	+ 6 32.3	1.454	2.327	16.3	20.2
6 30	19 36.36	+ 6 59.8	1.393	2.310	14.1	20.0
7 10	19 28.45	+ 6 55.8	1.353	2.294	12.5	19.9
7 20	19 19.99	+ 6 18.5	1.333	2.278	12.3	19.8
7 30	19 12.14	+ 5 9.7	1.335	2.263	13.6	19.9
8 9	19 6.00	+ 3 35.9	1.358	2.248	16.0	20.0
8 19	19 2.36	+ 1 45.5	1.400	2.234	18.7	20.1
220303 2003 EC_{13}			7 12.2 83°.15		0°.7/11.9 17	
6 10	19 55.30	−23 17.6	1.652	2.537	14.0	20.9
6 20	19 48.34	−23 27.0	1.607	2.560	10.0	20.7
6 30	19 39.21	−23 37.7	1.585	2.582	5.6	20.5
7 10	19 28.91	−23 46.5	1.588	2.604	1.2	20.3
7 20	19 18.62	−23 51.1	1.619	2.626	3.7	20.5
7 30	19 9.50	−23 50.5	1.676	2.648	8.0	20.8
8 9	19 2.49	−23 45.0	1.757	2.669	11.7	21.1
8 19	18 58.10	−23 35.6	1.859	2.690	14.8	21.3
103751 2000 CE_{117}			7 12.2 19°.22		1°.0/12.5 18	
6 10	19 49.65	−18 58.1	1.167	2.072	17.0	19.1
6 20	19 45.07	−19 7.1	1.116	2.078	12.4	18.9
6 30	19 37.71	−19 24.7	1.084	2.084	7.1	18.6
7 10	19 28.68	−19 47.8	1.075	2.091	1.7	18.3
7 20	19 19.38	−20 12.5	1.089	2.099	4.4	18.5
7 30	19 11.32	−20 35.4	1.127	2.108	9.7	18.8
8 9	19 5.73	−20 54.6	1.185	2.118	14.4	19.1
8 19	19 3.29	−21 8.9	1.262	2.128	18.4	19.4
504867 2010 UD_{74}			7 12.2 318°.83		1°.2/11.9 17	
6 10	19 51.81	−24 31.2	1.184	2.091	16.6	21.2
6 20	19 47.06	−24 27.5	1.109	2.072	12.2	20.8
6 30	19 39.12	−24 24.5	1.053	2.054	7.1	20.5
7 10	19 29.00	−24 18.4	1.020	2.036	1.7	20.1
7 20	19 18.16	−24 6.3	1.010	2.019	4.9	20.3
7 30	19 8.39	−23 47.1	1.023	2.003	10.7	20.5
8 9	19 1.23	−23 21.9	1.056	1.987	15.9	20.8
8 19	18 57.64	−22 52.8	1.107	1.973	20.5	21.0
425985 2011 HO_{77}			7 12.2 9°.57		11°.7/18.0 17	
6 10	19 43.93	+ 3 57.4	1.216	2.059	20.6	19.9
6 20	19 40.77	+ 4 21.4	1.163	2.062	17.6	19.7
6 30	19 35.24	+ 4 11.9	1.126	2.066	14.6	19.6
7 10	19 28.25	+ 3 26.1	1.108	2.071	12.3	19.4
7 20	19 20.94	+ 2 5.7	1.111	2.078	11.7	19.4
7 30	19 14.58	+ 0 17.4	1.134	2.087	13.1	19.5
8 9	19 10.26	− 1 48.4	1.179	2.097	15.7	19.7
8 19	19 8.66	− 4 0.7	1.242	2.108	18.6	19.9
442602 2012 DE_{56}			7 12.2 207°.05		4°.0/14.9 18	
6 10	19 47.82	− 4 41.2	2.846	3.668	10.6	21.5
6 20	19 42.47	− 5 13.4	2.759	3.664	8.4	21.3
6 30	19 35.81	− 5 58.6	2.698	3.659	6.1	21.1
7 10	19 28.34	− 6 55.8	2.663	3.653	4.3	21.0
7 20	19 20.60	− 8 3.0	2.658	3.647	4.3	21.0
7 30	19 13.24	− 9 17.2	2.682	3.641	6.1	21.1
8 9	19 6.86	−10 34.8	2.734	3.635	8.5	21.3
8 19	19 1.92	−11 52.5	2.811	3.628	10.7	21.4
396729 2003 KG_{2}			7 12.2 31°.43		1°.0/11.7 18	
6 10	19 48.91	−21 32.9	2.116	2.998	11.4	20.3
6 20	19 43.70	−22 32.4	2.048	3.000	8.2	20.1
6 30	19 36.68	−23 36.9	2.005	3.002	4.6	19.9
7 10	19 28.51	−24 42.1	1.989	3.004	1.2	19.7
7 20	19 20.03	−25 43.7	2.001	3.006	3.4	19.8
7 30	19 12.15	−26 38.2	2.040	3.009	7.0	20.1
8 9	19 5.74	−27 23.7	2.105	3.011	10.4	20.3
8 19	19 1.38	−27 59.5	2.193	3.014	13.2	20.5
283205 2010 FV_{48}			7 12.2 9°.59		2°.7/13.2 16	
6 10	19 48.63	−14 5.9	1.634	2.515	14.3	20.3
6 20	19 43.77	−14 12.4	1.569	2.515	10.7	20.1
6 30	19 36.80	−14 30.0	1.526	2.517	6.7	19.8
7 10	19 28.54	−14 57.0	1.507	2.518	3.1	19.6
7 20	19 19.97	−15 30.7	1.514	2.520	4.2	19.7
7 30	19 12.23	−16 8.0	1.547	2.523	8.1	19.9
8 9	19 6.25	−16 45.9	1.603	2.526	12.0	20.2
8 19	19 2.68	−17 21.8	1.680	2.529	15.4	20.4

458012 2009 WW_{105} 7 12.2 106°.92 3°.8/13.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	20 1.55	−13 23.9	1.704	2.559	15.1	21.9
6 20	19 52.52	−12 47.1	1.661	2.593	11.2	21.8
6 30	19 41.44	−12 19.3	1.642	2.625	7.2	21.6
7 10	19 29.36	−12 0.5	1.650	2.656	4.0	21.5
7 20	19 17.42	−11 50.0	1.686	2.685	4.9	21.6
7 30	19 6.78	−11 46.9	1.750	2.714	8.4	21.9
8 9	18 58.30	−11 49.6	1.839	2.741	11.8	22.1
8 19	18 52.45	−11 56.3	1.950	2.766	14.8	22.4

131681 2001 XK_{189} 7 12.2 177°.14 0°.3/12.3 17

6 10	19 54.92	−20 33.2	1.495	2.383	15.0	21.0
6 20	19 48.55	−20 42.7	1.430	2.384	10.9	20.7
6 30	19 39.61	−20 57.4	1.387	2.385	6.2	20.5
7 10	19 29.08	−21 13.8	1.369	2.385	1.2	20.1
7 20	19 18.20	−21 29.1	1.377	2.385	4.0	20.3
7 30	19 8.36	−21 41.0	1.410	2.385	8.8	20.6
8 9	19 0.71	−21 48.7	1.467	2.385	13.2	20.9
8 19	18 55.97	−21 52.3	1.543	2.384	16.9	21.1

226374 2003 JQ_{11} 7 12.2 47°.65 3°.8/11.1 17

6 10	19 53.78	−28 21.3	1.336	2.236	15.6	19.7
6 20	19 47.80	−29 9.4	1.297	2.256	11.3	19.5
6 30	19 39.14	−29 54.8	1.281	2.277	6.9	19.3
7 10	19 28.97	−30 31.0	1.288	2.298	3.8	19.2
7 20	19 18.74	−30 53.5	1.319	2.319	5.9	19.4
7 30	19 9.94	−31 0.9	1.375	2.341	9.9	19.7
8 9	19 3.66	−30 54.7	1.453	2.364	13.8	20.0
8 19	19 0.49	−30 38.1	1.549	2.386	17.0	20.2

88143 2000 WN_{177} 7 12.2 238°.78 2°.2/13.5 18

6 10	19 47.96	−12 22.8	2.426	3.285	11.0	20.3
6 20	19 42.81	−12 56.8	2.343	3.278	8.3	20.1
6 30	19 36.12	−13 40.9	2.285	3.271	5.2	19.9
7 10	19 28.44	−14 33.2	2.253	3.263	2.5	19.7
7 20	19 20.44	−15 31.0	2.251	3.255	3.2	19.7
7 30	19 12.89	−16 31.1	2.276	3.248	6.2	19.9
8 9	19 6.51	−17 30.5	2.329	3.240	9.3	20.1
8 19	19 1.83	−18 26.8	2.405	3.231	12.0	20.3

140344 2001 TO_{11} 7 12.2 330°.00 1°.0/11.9 18 R

6 10	19 49.95	−23 32.9	1.839	2.727	12.6	19.7
6 20	19 44.67	−23 50.9	1.767	2.722	9.1	19.5
6 30	19 37.32	−24 11.1	1.719	2.717	5.2	19.3
7 10	19 28.66	−24 30.2	1.697	2.712	1.3	19.0
7 20	19 19.69	−24 45.5	1.701	2.708	3.6	19.2
7 30	19 11.48	−24 55.1	1.731	2.704	7.7	19.4
8 9	19 5.00	−24 58.6	1.786	2.700	11.5	19.6
8 19	19 0.88	−24 56.4	1.862	2.696	14.7	19.8

273822 2007 GE_{19} 7 12.2 124°.15 7°.3/ 9.4 17

6 10	19 57.51	−39 5.3	1.845	2.716	13.4	19.9
6 20	19 50.41	−40 16.9	1.793	2.724	10.6	19.7
6 30	19 40.65	−41 17.9	1.766	2.732	8.2	19.6
7 10	19 29.27	−42 1.1	1.763	2.740	7.3	19.6
7 20	19 17.60	−42 21.9	1.785	2.748	8.4	19.6
7 30	19 7.07	−42 19.6	1.833	2.756	10.8	19.8
8 9	18 58.89	−41 57.2	1.903	2.763	13.4	20.0
8 19	18 53.72	−41 19.8	1.992	2.769	15.9	20.2

282429 2003 WW_{78} 7 12.2 235°.82 2°.2/12.8 18

6 10	19 51.21	−16 7.3	2.119	2.987	12.0	20.6
6 20	19 45.30	−15 51.2	2.038	2.979	8.9	20.4
6 30	19 37.57	−15 40.9	1.980	2.970	5.5	20.2
7 10	19 28.71	−15 35.6	1.949	2.961	2.4	20.0
7 20	19 19.54	−15 34.4	1.946	2.952	3.6	20.0
7 30	19 10.99	−15 36.4	1.971	2.942	7.1	20.2
8 9	19 3.90	−15 40.4	2.021	2.932	10.5	20.4
8 19	18 58.85	−15 45.7	2.093	2.921	13.5	20.6

344787 2003 XM_{33} 7 12.2 288°.62 2°.3/11.3 18

6 10	19 51.01	−25 44.0	1.825	2.714	12.7	21.4
6 20	19 45.58	−26 28.0	1.751	2.705	9.2	21.2
6 30	19 37.91	−27 13.7	1.700	2.696	5.4	20.9
7 10	19 28.79	−27 56.4	1.674	2.687	2.4	20.7
7 20	19 19.23	−28 32.0	1.676	2.679	4.5	20.9
7 30	19 10.39	−28 57.4	1.703	2.670	8.4	21.1
8 9	19 3.34	−29 12.1	1.755	2.661	12.1	21.3
8 19	18 58.79	−29 17.1	1.827	2.653	15.3	21.5

19708 1999 TM_{32} 7 12.2 261°.23 2°.5/12.9 18

6 10	19 53.16	−15 18.6	1.737	2.610	14.0	19.2
6 20	19 47.22	−15 16.0	1.646	2.589	10.5	18.9
6 30	19 38.93	−15 22.3	1.577	2.568	6.5	18.6
7 10	19 29.00	−15 36.3	1.534	2.545	2.8	18.4
7 20	19 18.44	−15 56.0	1.517	2.523	4.2	18.4
7 30	19 8.47	−16 19.2	1.526	2.499	8.5	18.6
8 9	19 0.23	−16 43.8	1.560	2.475	12.7	18.8
8 19	18 54.53	−17 7.9	1.615	2.451	16.5	19.0

362805 2011 YZ_{4} 7 12.2 147°.41 1°.4/11.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 49.19	−25 15.1	2.633	3.509	9.7	21.1
6 20	19 43.58	−25 46.3	2.566	3.515	7.0	20.9
6 30	19 36.48	−26 17.9	2.524	3.520	4.0	20.7
7 10	19 28.50	−26 47.1	2.511	3.524	1.5	20.5
7 20	19 20.33	−27 11.7	2.526	3.529	3.1	20.7
7 30	19 12.72	−27 29.9	2.569	3.533	6.0	20.9
8 9	19 6.36	−27 41.6	2.638	3.537	8.8	21.0
8 19	19 1.72	−27 46.9	2.731	3.541	11.2	21.2

393121 2013 BM_{31} 7 12.2 344°.27 4°.3/11.2 18

6 10	19 50.18	−31 12.0	1.477	2.377	14.4	19.7
6 20	19 45.40	−31 32.2	1.409	2.366	10.7	19.5
6 30	19 37.95	−31 47.2	1.362	2.356	6.9	19.2
7 10	19 28.81	−31 51.9	1.338	2.346	4.3	19.1
7 20	19 19.27	−31 42.9	1.339	2.338	6.1	19.2
7 30	19 10.78	−31 19.5	1.364	2.330	10.0	19.4
8 9	19 4.56	−30 43.8	1.411	2.324	13.9	19.6
8 19	19 1.34	−29 59.2	1.477	2.319	17.4	19.8

502115 2015 BZ_{5} 7 12.2 262°.27 0°.8/11.9 17

6 10	19 52.75	−21 1.4	1.570	2.459	14.3	21.4
6 20	19 47.16	−21 47.7	1.492	2.446	10.5	21.2
6 30	19 38.98	−22 41.6	1.435	2.433	6.0	20.9
7 10	19 29.02	−23 38.2	1.404	2.420	1.2	20.5
7 20	19 18.43	−24 32.2	1.399	2.407	4.2	20.7
7 30	19 8.59	−25 19.0	1.420	2.393	9.0	21.0
8 9	19 0.74	−25 56.3	1.465	2.379	13.4	21.2
8 19	18 55.74	−26 23.7	1.529	2.365	17.2	21.4

239480 2007 UW_{37} 7 12.2 301°.18 0°.1/12.3 18

6 10	19 49.67	−19 30.1	1.824	2.709	12.9	20.4
6 20	19 44.51	−20 4.8	1.750	2.703	9.4	20.2
6 30	19 37.27	−20 46.2	1.700	2.697	5.3	19.9
7 10	19 28.69	−21 31.0	1.675	2.691	1.0	19.6
7 20	19 19.71	−22 15.4	1.678	2.686	3.4	19.8
7 30	19 11.43	−22 56.1	1.706	2.680	7.7	20.0
8 9	19 4.81	−23 30.9	1.760	2.675	11.5	20.3
8 19	19 0.53	−23 58.9	1.834	2.670	14.8	20.5

119869 2002 CY_{162} 7 12.2 57°.09 1°.9/11.4 18

6 10	19 49.87	−25 35.2	2.054	2.940	11.6	19.4
6 20	19 44.39	−26 13.3	1.995	2.948	8.4	19.2
6 30	19 37.06	−26 52.0	1.961	2.957	4.8	19.0
7 10	19 28.63	−27 27.4	1.952	2.965	2.0	18.8
7 20	19 20.00	−27 56.4	1.971	2.974	3.8	19.0
7 30	19 12.12	−28 17.0	2.017	2.983	7.3	19.2
8 9	19 5.85	−28 28.8	2.088	2.992	10.5	19.4
8 19	19 1.73	−28 32.7	2.180	3.001	13.3	19.7

250677 2005 PC_{22} 7 12.2 17°.96 4°.0/11.4 18

6 10	19 53.46	−32 32.5	1.736	2.623	13.3	19.8
6 20	19 47.27	−32 40.5	1.677	2.626	9.9	19.6
6 30	19 38.77	−32 41.4	1.640	2.631	6.4	19.4
7 10	19 28.95	−32 31.5	1.629	2.635	4.1	19.2
7 20	19 18.99	−32 8.7	1.644	2.640	5.5	19.3
7 30	19 10.14	−31 33.5	1.684	2.646	8.9	19.5
8 9	19 3.41	−30 48.6	1.748	2.652	12.3	19.8
8 19	18 59.38	−29 57.5	1.833	2.658	15.3	20.0

434379 2004 TP_{369} 7 12.2 188°.41 10°.4/15.4 18

6 10	19 50.36	+ 5 57.4	2.054	2.836	15.4	21.1
6 20	19 44.67	+ 7 10.8	1.986	2.835	13.5	20.9
6 30	19 37.22	+ 8 4.0	1.938	2.835	11.7	20.8
7 10	19 28.68	+ 8 33.6	1.913	2.834	10.6	20.7
7 20	19 19.84	+ 8 37.8	1.911	2.833	10.6	20.7
7 30	19 11.62	+ 8 17.5	1.934	2.831	11.6	20.8
8 9	19 4.82	+ 7 36.5	1.978	2.830	13.3	20.9
8 19	19 0.00	+ 6 40.0	2.042	2.828	15.3	21.1

73599 3012 $T\text{-}_{2}$ 7 12.2 3°.48 3°.2/11.5 18

6 10	19 47.41	−26 6.3	0.820	1.751	19.4	17.7
6 20	19 44.46	−26 34.8	0.774	1.748	14.2	17.4
6 30	19 37.81	−27 4.5	0.745	1.748	8.3	17.0
7 10	19 28.83	−27 28.4	0.734	1.749	3.4	16.8
7 20	19 19.40	−27 40.4	0.744	1.752	6.5	17.0
7 30	19 11.64	−27 38.0	0.773	1.756	12.4	17.3
8 9	19 7.17	−27 22.4	0.819	1.763	17.7	17.6
8 19	19 6.72	−26 56.6	0.881	1.771	22.3	17.9

258430 2001 XE_{205} 7 12.2 230°.56 3°.2/10.6 18

6 10	19 50.92	−29 19.7	2.284	3.165	10.8	20.6
6 20	19 45.20	−30 13.1	2.212	3.160	7.9	20.4
6 30	19 37.58	−31 5.2	2.164	3.155	5.0	20.2
7 10	19 28.76	−31 51.6	2.143	3.150	3.2	20.1
7 20	19 19.58	−32 28.6	2.151	3.144	4.7	20.2
7 30	19 11.02	−32 54.0	2.185	3.139	7.6	20.3
8 9	19 3.94	−33 7.5	2.244	3.133	10.5	20.5
8 19	18 58.97	−33 10.4	2.326	3.128	13.1	20.7

67436 2000 QP_{121} 7 12.2 209°.44 1°.0/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 56.15	−24 9.8	1.578	2.465	14.4	19.6
6 20	19 49.44	−24 16.4	1.508	2.461	10.5	19.3
6 30	19 40.15	−24 23.9	1.460	2.458	6.0	19.0
7 10	19 29.24	−24 28.8	1.438	2.454	1.4	18.7
7 20	19 17.96	−24 28.2	1.442	2.449	4.1	18.9
7 30	19 7.69	−24 21.0	1.472	2.444	8.8	19.2
8 9	18 59.61	−24 7.9	1.526	2.439	13.1	19.4
8 19	18 54.44	−23 50.5	1.600	2.433	16.7	19.6

443609 2014 LX_{10} 7 12.2 356°.88 3°.8/14.0 18

6 10	19 47.19	− 9 17.6	2.151	3.007	12.3	20.9
6 20	19 42.35	− 9 28.1	2.078	3.007	9.5	20.7
6 30	19 35.90	− 9 51.0	2.028	3.006	6.5	20.5
7 10	19 28.44	−10 25.3	2.004	3.006	4.1	20.4
7 20	19 20.73	−11 8.9	2.007	3.006	4.4	20.4
7 30	19 13.59	−11 59.0	2.037	3.006	7.0	20.6
8 9	19 7.75	−12 52.1	2.093	3.006	10.1	20.7
8 19	19 3.75	−13 45.4	2.171	3.006	12.8	20.9

118446 1999 VK_{69} 7 12.2 151°.92 1°.2/12.8 18

6 10	19 48.32	−17 1.8	2.647	3.514	10.0	20.4
6 20	19 42.88	−17 7.6	2.577	3.519	7.3	20.2
6 30	19 36.08	−17 18.3	2.532	3.523	4.3	20.0
7 10	19 28.47	−17 32.5	2.514	3.528	1.5	19.8
7 20	19 20.70	−17 48.7	2.525	3.532	2.7	19.9
7 30	19 13.45	−18 5.6	2.565	3.536	5.6	20.1
8 9	19 7.36	−18 21.9	2.631	3.539	8.4	20.3
8 19	19 2.87	−18 36.9	2.720	3.543	10.9	20.5

37033 2000 UX_{8} 7 12.2 311°.13 3°.3/13.2 18 R

6 10	19 48.59	−13 15.8	2.037	2.905	12.4	18.0
6 20	19 43.46	−12 53.8	1.959	2.897	9.4	17.8
6 30	19 36.57	−12 39.9	1.904	2.890	6.1	17.6
7 10	19 28.58	−12 34.1	1.875	2.882	3.5	17.4
7 20	19 20.29	−12 35.6	1.873	2.875	4.3	17.4
7 30	19 12.62	−12 43.3	1.897	2.867	7.4	17.6
8 9	19 6.38	−12 55.7	1.947	2.860	10.7	17.8
8 19	19 2.14	−13 10.8	2.018	2.853	13.7	18.0

473024 2015 HL_{61} 7 12.2 138°.51 4°.8/10.4 17

6 10	19 55.93	−33 46.3	2.014	2.890	12.2	21.4
6 20	19 48.93	−34 36.6	1.958	2.899	9.2	21.2
6 30	19 39.70	−35 20.8	1.926	2.908	6.3	21.0
7 10	19 29.15	−35 53.4	1.920	2.917	4.8	21.0
7 20	19 18.37	−36 10.9	1.941	2.925	6.1	21.0
7 30	19 8.56	−36 12.2	1.988	2.933	8.9	21.2
8 9	19 0.71	−35 59.1	2.060	2.940	11.8	21.4
8 19	18 55.43	−35 34.7	2.153	2.947	14.3	21.6

144928 2005 CH_{52} 7 12.2 64°.28 1°.2/12.5 17

6 10	19 53.61	−18 37.3	1.313	2.207	16.3	20.1
6 20	19 47.65	−18 41.6	1.264	2.219	11.9	19.9
6 30	19 39.10	−18 53.6	1.235	2.232	6.9	19.6
7 10	19 29.04	−19 10.2	1.230	2.246	1.8	19.3
7 20	19 18.81	−19 28.5	1.250	2.259	4.2	19.5
7 30	19 9.85	−19 45.7	1.294	2.272	9.1	19.9
8 9	19 3.25	−20 0.4	1.361	2.286	13.5	20.1
8 19	18 59.65	−20 11.9	1.447	2.299	17.2	20.4

381914 2010 CP_{41} 7 12.2 189°.97 4°.9/10.0 17

6 10	19 55.64	−34 49.3	2.262	3.132	11.3	21.4
6 20	19 48.68	−35 44.8	2.194	3.131	8.6	21.3
6 30	19 39.58	−36 34.6	2.151	3.129	6.1	21.1
7 10	19 29.14	−37 13.2	2.134	3.127	4.9	21.0
7 20	19 18.34	−37 37.0	2.146	3.124	6.1	21.1
7 30	19 8.31	−37 44.6	2.184	3.120	8.6	21.3
8 9	19 0.03	−37 37.1	2.247	3.116	11.3	21.4
8 19	18 54.15	−37 17.5	2.331	3.112	13.7	21.6

417536 2006 TZ_{99} 7 12.2 162°.82 4°.1/13.5 17

6 10	19 53.11	−10 55.2	1.923	2.780	13.5	21.4
6 20	19 46.69	−10 35.3	1.855	2.785	10.4	21.2
6 30	19 38.37	−10 26.1	1.811	2.790	7.0	21.0
7 10	19 28.91	−10 27.3	1.792	2.794	4.4	20.9
7 20	19 19.21	−10 38.1	1.800	2.798	4.9	20.9
7 30	19 10.28	−10 56.7	1.835	2.801	7.9	21.1
8 9	19 2.97	−11 20.7	1.896	2.803	11.3	21.3
8 19	18 57.87	−11 47.7	1.978	2.805	14.2	21.5

70339 1999 RQ_{170} 7 12.2 192°.72 2°.8/11.4 18

6 10	19 56.66	−28 13.5	1.855	2.735	12.9	19.2
6 20	19 49.58	−28 41.6	1.785	2.734	9.4	19.0
6 30	19 40.15	−29 7.6	1.738	2.732	5.7	18.7
7 10	19 29.25	−29 27.0	1.718	2.729	2.8	18.6
7 20	19 18.01	−29 36.4	1.725	2.726	4.7	18.7
7 30	19 7.69	−29 34.4	1.759	2.722	8.5	18.9
8 9	18 59.35	−29 22.1	1.818	2.717	12.1	19.1
8 19	18 53.68	−29 1.8	1.898	2.712	15.2	19.3

96134 3027 $T\text{-}_{3}$ 7 12.2 299°.60 1°.3/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 49.35	−24 34.3	2.103	2.988	11.4	19.9
6 20	19 44.15	−24 56.4	2.020	2.973	8.3	19.7
6 30	19 37.03	−25 19.9	1.962	2.959	4.8	19.4
7 10	19 28.68	−25 41.7	1.930	2.944	1.5	19.2
7 20	19 19.95	−25 59.1	1.925	2.930	3.5	19.3
7 30	19 11.83	−26 10.4	1.947	2.916	7.2	19.5
8 9	19 5.19	−26 14.9	1.994	2.902	10.7	19.7
8 19	19 0.69	−26 13.2	2.062	2.889	13.7	19.9

383207 2005 YH_{90} 7 12.2 256°.49 0°.8/12.4 18

6 10	19 54.05	−21 5.1	1.747	2.629	13.5	21.2
6 20	19 47.65	−20 40.5	1.674	2.624	9.8	21.0
6 30	19 39.04	−20 17.6	1.623	2.619	5.7	20.7
7 10	19 29.06	−19 55.3	1.598	2.613	1.4	20.4
7 20	19 18.78	−19 32.8	1.600	2.608	3.6	20.5
7 30	19 9.39	−19 10.2	1.629	2.602	8.0	20.8
8 9	19 1.89	−18 47.9	1.682	2.597	12.0	21.0
8 19	18 56.92	−18 26.5	1.756	2.591	15.4	21.2

258940 2002 RA_{144} 7 12.2 241°.96 0°.5/12.1 17

6 10	19 54.50	−22 53.0	1.729	2.612	13.5	21.0
6 20	19 48.16	−23 0.4	1.650	2.602	9.8	20.7
6 30	19 39.43	−23 9.9	1.594	2.591	5.6	20.4
7 10	19 29.15	−23 18.4	1.564	2.579	1.1	20.1
7 20	19 18.42	−23 23.5	1.560	2.568	3.8	20.3
7 30	19 8.49	−23 23.5	1.583	2.555	8.3	20.5
8 9	19 0.49	−23 18.4	1.630	2.543	12.4	20.7
8 19	18 55.15	−23 9.1	1.698	2.530	16.0	20.9

494418 2016 UW_{74} 7 12.2 190°.59 3°.4/13.6 18

6 10	19 48.42	−11 17.7	2.211	3.069	11.9	21.6
6 20	19 43.19	−11 9.7	2.138	3.069	9.1	21.4
6 30	19 36.36	−11 11.4	2.088	3.069	6.1	21.2
7 10	19 28.57	−11 22.2	2.065	3.069	3.7	21.1
7 20	19 20.54	−11 40.9	2.069	3.068	4.2	21.1
7 30	19 13.09	−12 5.8	2.100	3.068	6.9	21.3
8 9	19 6.96	−12 34.5	2.156	3.067	9.9	21.4
8 19	19 2.66	−13 4.9	2.235	3.066	12.7	21.6

410216 2007 RG_{288} 7 12.2 131°.74 5°.0/11.0 17

6 10	19 58.26	−31 57.5	1.407	2.298	15.6	20.8
6 20	19 51.30	−32 34.2	1.350	2.302	11.6	20.6
6 30	19 41.31	−33 4.6	1.315	2.306	7.6	20.4
7 10	19 29.50	−33 22.0	1.304	2.310	5.0	20.2
7 20	19 17.39	−33 21.9	1.318	2.313	6.8	20.3
7 30	19 6.67	−33 3.9	1.357	2.317	10.7	20.6
8 9	18 58.65	−32 31.3	1.417	2.320	14.6	20.8
8 19	18 54.05	−31 48.6	1.497	2.323	18.0	21.0

120444 1981 EQ_{13} 7 12.2 80°.41 5°.7/11.1 17

6 10	20 0.21	−36 34.1	1.723	2.597	14.0	19.4
6 20	19 52.00	−36 59.2	1.684	2.622	10.7	19.2
6 30	19 41.35	−37 13.2	1.667	2.646	7.5	19.1
7 10	19 29.45	−37 10.9	1.676	2.671	5.7	19.0
7 20	19 17.69	−36 50.5	1.711	2.695	6.8	19.1
7 30	19 7.42	−36 13.2	1.772	2.718	9.6	19.3
8 9	18 59.64	−35 23.3	1.857	2.742	12.6	19.6
8 19	18 54.84	−34 25.7	1.963	2.765	15.2	19.8

433886 2015 BG_{391} 7 12.2 179°.54 0°.4/12.1 17

6 10	19 53.95	−21 30.8	1.894	2.773	12.7	22.3
6 20	19 47.50	−21 56.6	1.825	2.775	9.2	22.0
6 30	19 38.93	−22 26.2	1.779	2.775	5.2	21.8
7 10	19 29.05	−22 56.2	1.760	2.776	1.0	21.5
7 20	19 18.85	−23 23.5	1.768	2.776	3.5	21.7
7 30	19 9.45	−23 45.6	1.804	2.775	7.6	21.9
8 9	19 1.80	−24 1.7	1.865	2.774	11.3	22.2
8 19	18 56.56	−24 11.9	1.947	2.772	14.5	22.4

512990 2017 UD_{36} 7 12.2 266°.54 6°.5/10.2 18

6 10	19 58.51	−35 47.6	1.626	2.506	14.4	21.9
6 20	19 51.70	−36 40.1	1.544	2.486	11.2	21.6
6 30	19 41.76	−37 25.4	1.485	2.465	8.1	21.4
7 10	19 29.64	−37 55.5	1.450	2.444	6.5	21.2
7 20	19 16.76	−38 4.6	1.441	2.422	8.1	21.3
7 30	19 4.83	−37 50.4	1.456	2.400	11.4	21.4
8 9	18 55.38	−37 16.0	1.493	2.378	15.1	21.6
8 19	18 49.34	−36 26.5	1.550	2.355	18.5	21.8

264860 2002 RR_{119} 7 12.2 334°.88 5°.0/11.4 16

6 10	19 49.81	−31 5.1	1.037	1.955	17.6	19.3
6 20	19 46.13	−31 18.6	0.967	1.933	13.2	18.9
6 30	19 38.86	−31 25.4	0.915	1.913	8.5	18.6
7 10	19 29.12	−31 18.6	0.883	1.894	5.0	18.3
7 20	19 18.60	−30 53.6	0.873	1.876	7.3	18.4
7 30	19 9.37	−30 9.8	0.884	1.860	12.4	18.6
8 9	19 3.17	−29 11.2	0.913	1.846	17.6	18.9
8 19	19 0.97	−28 3.4	0.959	1.834	22.1	19.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
139729 2001 QJ_{250}			7 12.2 285°.23		5°.9/ 9.7 18	
	h m	° ′			°	m
6 10	19 53.36	−36 7.4	1.992	2.869	12.3	19.6
6 20	19 47.42	−37 5.6	1.916	2.855	9.5	19.4
6 30	19 39.07	−37 57.5	1.864	2.841	7.0	19.2
7 10	19 29.12	−38 36.9	1.837	2.827	5.9	19.1
7 20	19 18.66	−38 59.3	1.837	2.812	7.2	19.2
7 30	19 8.97	−39 2.6	1.861	2.798	9.8	19.3
8 9	19 1.19	−38 48.4	1.909	2.784	12.8	19.5
8 19	18 56.08	−38 20.0	1.977	2.770	15.5	19.6
253698 2003 UP_{271}			7 12.2 216°.78		3°.4/11.0 17	
6 10	19 56.47	−28 56.9	1.865	2.745	12.8	21.9
6 20	19 49.60	−29 40.6	1.789	2.737	9.5	21.7
6 30	19 40.28	−30 22.7	1.737	2.729	5.9	21.4
7 10	19 29.35	−30 57.9	1.711	2.719	3.4	21.3
7 20	19 17.94	−31 21.7	1.712	2.709	5.2	21.4
7 30	19 7.34	−31 32.1	1.740	2.699	8.9	21.6
8 9	18 58.70	−31 29.6	1.793	2.687	12.5	21.8
8 19	18 52.76	−31 16.6	1.866	2.675	15.6	21.9
333493 2004 XG_{164}			7 12.2 211°.67		2°.0/11.7 18	
6 10	19 55.33	−28 25.6	2.411	3.282	10.7	21.2
6 20	19 48.19	−28 29.6	2.330	3.275	7.8	21.0
6 30	19 39.22	−28 30.4	2.274	3.267	4.6	20.8
7 10	19 29.13	−28 25.5	2.246	3.258	2.1	20.6
7 20	19 18.80	−28 13.0	2.247	3.249	3.6	20.7
7 30	19 9.16	−27 52.8	2.277	3.239	6.8	20.8
8 9	19 1.05	−27 26.0	2.333	3.228	9.9	21.0
8 19	18 55.04	−26 54.3	2.412	3.217	12.6	21.2
502079 2015 AR_{229}			7 12.2 223°.61		2°.9/12.9 17	
6 10	19 53.28	−15 14.8	1.698	2.572	14.2	21.5
6 20	19 47.17	−14 56.2	1.623	2.567	10.6	21.3
6 30	19 38.83	−14 45.4	1.572	2.561	6.6	21.0
7 10	19 29.08	−14 42.0	1.545	2.556	3.2	20.8
7 20	19 18.96	−14 44.8	1.545	2.550	4.4	20.9
7 30	19 9.65	−14 52.3	1.571	2.543	8.4	21.1
8 9	19 2.16	−15 2.9	1.621	2.537	12.3	21.3
8 19	18 57.19	−15 15.2	1.692	2.530	15.8	21.5
259906 2004 EG_{10}			7 12.2 103°.81		0°.4/12.4 17	
6 10	19 54.44	−20 17.2	1.620	2.504	14.3	21.0
6 20	19 47.93	−20 23.6	1.565	2.516	10.3	20.8
6 30	19 39.18	−20 34.5	1.532	2.529	5.9	20.6
7 10	19 29.12	−20 47.1	1.525	2.541	1.2	20.3
7 20	19 18.91	−20 59.0	1.545	2.553	3.6	20.5
7 30	19 9.76	−21 8.3	1.591	2.565	8.1	20.8
8 9	19 2.65	−21 14.4	1.660	2.576	12.0	21.1
8 19	18 58.18	−21 17.3	1.751	2.588	15.4	21.3
158312 2001 VX_{17}			7 12.2 199°.56		6°.5/ 9.0 18	
6 10	19 57.16	−37 27.0	2.052	2.921	12.3	20.5
6 20	19 50.17	−38 49.4	1.986	2.918	9.7	20.3
6 30	19 40.65	−40 4.7	1.945	2.914	7.4	20.2
7 10	19 29.45	−41 5.5	1.930	2.910	6.5	20.1
7 20	19 17.71	−41 46.6	1.942	2.906	7.8	20.2
7 30	19 6.79	−42 5.8	1.979	2.900	10.2	20.4
8 9	18 57.88	−42 4.8	2.040	2.895	12.9	20.5
8 19	18 51.77	−41 47.5	2.121	2.889	15.3	20.7
112175 2002 JP_{95}			7 12.2 78°.12		0°.6/12.1 17	
6 10	19 55.79	−22 44.0	1.361	2.255	15.8	20.1
6 20	19 49.20	−22 54.9	1.314	2.270	11.4	19.9
6 30	19 39.98	−23 8.5	1.288	2.286	6.4	19.6
7 10	19 29.29	−23 21.0	1.286	2.302	1.3	19.3
7 20	19 18.49	−23 29.3	1.309	2.317	4.2	19.6
7 30	19 9.03	−23 31.9	1.357	2.333	9.1	19.9
8 9	19 2.02	−23 28.9	1.428	2.348	13.4	20.2
8 19	18 58.06	−23 21.4	1.519	2.363	16.9	20.5
343563 2010 FL_{56}			7 12.2 199°.86		3°.4/13.6 18	
6 10	19 49.91	−11 12.9	2.131	2.989	12.4	20.7
6 20	19 44.36	−11 10.7	2.055	2.987	9.4	20.5
6 30	19 37.10	−11 18.8	2.003	2.984	6.3	20.3
7 10	19 28.77	−11 36.5	1.977	2.981	3.7	20.1
7 20	19 20.15	−12 2.3	1.978	2.978	4.2	20.1
7 30	19 12.14	−12 34.0	2.007	2.975	7.2	20.3
8 9	19 5.50	−13 9.1	2.061	2.971	10.3	20.5
8 19	19 0.81	−13 45.3	2.137	2.968	13.2	20.7
376894 2001 XX_{137}			7 12.2 284°.75		3°.2/10.7 18	
6 10	19 52.29	−25 32.7	1.623	2.515	13.8	20.2
6 20	19 46.88	−26 51.8	1.552	2.508	10.0	20.0
6 30	19 38.89	−28 15.2	1.504	2.500	6.0	19.7
7 10	19 29.14	−29 35.9	1.481	2.492	3.2	19.6
7 20	19 18.78	−30 47.0	1.484	2.484	5.5	19.7
7 30	19 9.19	−31 43.4	1.514	2.476	9.6	19.9
8 9	19 1.60	−32 23.6	1.566	2.469	13.5	20.1
8 19	18 56.86	−32 48.4	1.639	2.461	16.9	20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
267010 1994 CX_4			7 12.2 26°.74		3°.2/13.3 17	
	h m	° ′			°	m
6 10	19 49.92	−13 21.4	1.516	2.397	15.2	20.4
6 20	19 44.86	−13 23.9	1.455	2.400	11.4	20.2
6 30	19 37.55	−13 38.8	1.414	2.404	7.2	20.0
7 10	19 28.86	−14 4.6	1.398	2.408	3.6	19.8
7 20	19 19.88	−14 38.4	1.407	2.412	4.6	19.9
7 30	19 11.79	−15 16.9	1.441	2.417	8.6	20.1
8 9	19 5.63	−15 56.8	1.498	2.422	12.6	20.3
8 19	19 2.04	−16 35.1	1.576	2.427	16.1	20.6
291895 2006 QP_1			7 12.2 323°.17		2°.6/11.4 18	
6 10	19 49.24	−24 1.7	1.150	2.062	16.7	20.0
6 20	19 45.43	−24 54.4	1.076	2.042	12.2	19.6
6 30	19 38.42	−25 54.4	1.022	2.023	7.1	19.3
7 10	19 29.10	−26 54.9	0.990	2.005	2.7	19.0
7 20	19 18.90	−27 48.3	0.981	1.987	5.8	19.1
7 30	19 9.63	−28 28.8	0.994	1.971	11.3	19.4
8 9	19 2.95	−28 54.2	1.027	1.955	16.5	19.6
8 19	18 59.90	−29 5.2	1.077	1.941	21.0	19.8
448378 2009 KL_{24}			7 12.2 29°.56		5°.4/14.9 16	
6 10	19 47.11	− 5 36.7	1.819	2.671	14.4	20.7
6 20	19 42.49	− 5 45.0	1.757	2.678	11.4	20.6
6 30	19 36.08	− 6 10.6	1.717	2.685	8.2	20.4
7 10	19 28.58	− 6 52.8	1.700	2.693	5.8	20.3
7 20	19 20.86	− 7 49.2	1.709	2.701	5.8	20.3
7 30	19 13.84	− 8 55.6	1.744	2.710	8.2	20.4
8 9	19 8.34	−10 7.3	1.803	2.719	11.3	20.6
8 19	19 4.92	−11 19.7	1.885	2.728	14.2	20.9
437732 2014 DE_{138}			7 12.2 240°.76		4°.8/14.4 18	
6 10	19 49.58	− 6 33.3	2.178	3.019	12.7	21.4
6 20	19 44.18	− 6 36.0	2.090	3.006	10.1	21.2
6 30	19 37.05	− 6 52.6	2.026	2.993	7.3	21.0
7 10	19 28.78	− 7 23.2	1.986	2.980	5.1	20.9
7 20	19 20.12	− 8 6.2	1.974	2.966	5.3	20.9
7 30	19 11.93	− 8 58.9	1.990	2.951	7.7	21.0
8 9	19 5.02	− 9 57.7	2.030	2.937	10.7	21.2
8 19	19 0.01	−10 59.1	2.094	2.921	13.5	21.3
184855 2005 UK_{58}			7 12.2 26°.00		0°.1/12.3 18	
6 10	19 49.20	−20 57.3	2.019	2.902	11.9	20.3
6 20	19 43.93	−21 7.7	1.953	2.905	8.6	20.1
6 30	19 36.87	−21 21.7	1.911	2.908	4.9	19.8
7 10	19 28.73	−21 36.9	1.896	2.911	0.9	19.6
7 20	19 20.37	−21 51.2	1.907	2.915	3.1	19.7
7 30	19 12.74	−22 2.9	1.945	2.919	6.9	20.0
8 9	19 6.65	−22 11.2	2.008	2.923	10.3	20.2
8 19	19 2.65	−22 15.9	2.094	2.927	13.3	20.4
185775 1999 TE_{241}			7 12.2 296°.67		2°.7/10.9 18	
6 10	19 49.78	−27 12.2	2.117	3.002	11.3	20.3
6 20	19 44.63	−28 5.8	2.030	2.982	8.3	20.1
6 30	19 37.45	−29 0.9	1.968	2.962	5.0	19.9
7 10	19 28.87	−29 52.7	1.932	2.942	2.8	19.7
7 20	19 19.77	−30 37.1	1.923	2.922	4.5	19.7
7 30	19 11.19	−31 11.0	1.942	2.902	7.9	19.9
8 9	19 4.10	−31 33.2	1.984	2.882	11.3	20.1
8 19	18 59.22	−31 44.6	2.049	2.862	14.3	20.2
514513 2016 WT_{37}			7 12.2 240°.78		4°.2/10.1 18	
6 10	19 51.15	−33 1.0	2.419	3.295	10.4	21.6
6 20	19 45.38	−33 56.9	2.347	3.289	7.9	21.4
6 30	19 37.74	−34 49.1	2.300	3.283	5.4	21.2
7 10	19 28.91	−35 33.1	2.280	3.277	4.2	21.1
7 20	19 19.73	−36 5.2	2.288	3.271	5.4	21.2
7 30	19 11.14	−36 23.7	2.323	3.265	7.9	21.4
8 9	19 4.03	−36 28.8	2.382	3.259	10.5	21.5
8 19	18 59.00	−36 22.4	2.463	3.252	12.9	21.7
335144 2004 VP_{82}			7 12.2 224°.15		1°.9/11.5 18	
6 10	19 53.77	−26 49.6	2.366	3.240	10.7	22.3
6 20	19 47.20	−27 13.8	2.282	3.228	7.8	22.1
6 30	19 38.75	−27 37.2	2.222	3.216	4.6	21.9
7 10	19 29.10	−27 56.7	2.190	3.203	2.0	21.7
7 20	19 19.08	−28 9.6	2.187	3.189	3.7	21.8
7 30	19 9.66	−28 14.4	2.212	3.175	7.0	22.0
8 9	19 1.69	−28 11.3	2.264	3.160	10.2	22.1
8 19	18 55.79	−28 1.4	2.337	3.144	12.9	22.3
521525 2015 OW_{98}			7 12.2 341°.96		7°.0/ 9.9 18	
6 10	19 55.31	−41 58.8	2.140	3.001	12.2	21.1
6 20	19 48.62	−42 36.4	2.077	2.999	9.8	20.9
6 30	19 39.62	−43 1.9	2.038	2.997	7.9	20.8
7 10	19 29.25	−43 10.3	2.024	2.995	7.0	20.7
7 20	19 18.66	−42 58.5	2.035	2.993	7.9	20.8
7 30	19 9.10	−42 26.9	2.071	2.991	9.9	20.9
8 9	19 1.59	−41 38.4	2.131	2.990	12.3	21.1
8 19	18 56.75	−40 37.7	2.211	2.988	14.5	21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
212668 2006 UL_{256}			7 12.2 221°.09		1°.1/11.8 18	
	h m	° ′			°	m
6 10	19 50.55	−24 1.7	2.256	3.136	10.9	21.2
6 20	19 44.86	−24 26.8	2.181	3.132	7.9	21.0
6 30	19 37.41	−24 53.4	2.131	3.127	4.5	20.8
7 10	19 28.86	−25 18.5	2.108	3.123	1.3	20.6
7 20	19 20.01	−25 39.6	2.112	3.118	3.3	20.7
7 30	19 11.78	−25 54.9	2.145	3.113	6.8	20.9
8 9	19 4.99	−26 3.8	2.203	3.108	10.0	21.1
8 19	19 0.20	−26 6.7	2.283	3.103	12.8	21.3
217599 2008 HV_{7}			7 12.3 21°.80		1°.5/13.0 18	
6 10	19 47.79	−15 8.1	2.113	2.986	11.9	20.3
6 20	19 42.89	−15 44.3	2.043	2.987	8.7	20.1
6 30	19 36.30	−16 29.7	1.998	2.990	5.2	19.9
7 10	19 28.66	−17 21.7	1.978	2.992	1.9	19.7
7 20	19 20.74	−18 16.8	1.987	2.994	3.1	19.8
7 30	19 13.41	−19 11.7	2.022	2.997	6.6	20.0
8 9	19 7.46	−20 3.6	2.084	3.000	10.0	20.2
8 19	19 3.43	−20 50.5	2.168	3.003	12.9	20.4
115773 2003 UH_{209}			7 12.3 337°.63		9°.5/14.9 18	
6 10	19 48.02	− 0 21.7	1.632	2.466	16.6	19.2
6 20	19 43.41	+ 0 38.1	1.562	2.460	13.9	19.0
6 30	19 36.74	+ 1 17.8	1.512	2.454	11.4	18.8
7 10	19 28.75	+ 1 34.2	1.484	2.448	9.7	18.7
7 20	19 20.40	+ 1 26.1	1.480	2.443	9.7	18.7
7 30	19 12.74	+ 0 54.9	1.498	2.439	11.5	18.8
8 9	19 6.76	+ 0 5.2	1.538	2.435	14.1	19.0
8 19	19 3.10	− 0 57.1	1.598	2.431	16.8	19.1
290402 2005 TQ_{35}			7 12.3 4°.15		1°.7/12.8 17	
6 10	19 47.20	−17 2.9	1.103	2.012	17.5	20.0
6 20	19 43.57	−17 18.0	1.048	2.010	12.9	19.8
6 30	19 37.10	−17 45.6	1.012	2.011	7.6	19.5
7 10	19 28.84	−18 22.4	0.997	2.012	2.4	19.2
7 20	19 20.18	−19 3.7	1.005	2.015	4.6	19.3
7 30	19 12.67	−19 45.0	1.035	2.019	10.0	19.6
8 9	19 7.61	−20 22.3	1.086	2.025	14.9	19.9
8 19	19 5.76	−20 53.5	1.155	2.031	19.0	20.2
343638 2010 JB_{31}			7 12.3 146°.48		5°.7/15.0 18	
6 10	19 49.73	− 3 3.5	2.396	3.217	12.4	21.7
6 20	19 43.99	− 2 50.7	2.330	3.227	10.0	21.5
6 30	19 36.80	− 2 52.0	2.286	3.236	7.6	21.4
7 10	19 28.75	− 3 7.8	2.268	3.245	5.9	21.3
7 20	19 20.53	− 3 37.0	2.277	3.253	5.9	21.3
7 30	19 12.88	− 4 17.6	2.313	3.261	7.6	21.4
8 9	19 6.46	− 5 6.3	2.375	3.268	9.9	21.6
8 19	19 1.75	− 5 59.8	2.460	3.274	12.1	21.8
128760 2004 RU_{190}			7 12.3 201°.08		1°.1/11.9 18	
6 10	19 50.58	−25 37.4	2.605	3.480	9.8	20.4
6 20	19 44.64	−25 40.2	2.530	3.478	7.1	20.2
6 30	19 37.18	−25 42.2	2.481	3.476	4.1	20.0
7 10	19 28.82	−25 41.5	2.459	3.473	1.3	19.8
7 20	19 20.28	−25 36.6	2.466	3.471	2.9	20.0
7 30	19 12.34	−25 26.9	2.501	3.468	6.0	20.2
8 9	19 5.69	−25 12.8	2.563	3.465	8.9	20.3
8 19	19 0.80	−24 55.1	2.648	3.462	11.4	20.5
81069 2000 EW_{77}			7 12.3 198°.25		0°.2/12.3 18	
6 10	19 53.14	−19 50.8	1.735	2.617	13.6	19.7
6 20	19 47.12	−20 14.2	1.665	2.616	9.9	19.4
6 30	19 38.86	−20 43.5	1.617	2.614	5.6	19.2
7 10	19 29.17	−21 15.4	1.596	2.611	1.1	18.9
7 20	19 19.11	−21 46.6	1.601	2.609	3.6	19.0
7 30	19 9.85	−22 14.1	1.632	2.606	8.0	19.3
8 9	19 2.44	−22 36.5	1.688	2.603	12.0	19.5
8 19	18 57.56	−22 53.4	1.765	2.599	15.4	19.8
434702 2006 BN_{280}			7 12.3 149°.04		0°.8/11.9 18	
6 10	19 53.71	−23 41.6	2.138	3.014	11.6	22.1
6 20	19 47.10	−23 54.8	2.074	3.022	8.4	21.9
6 30	19 38.64	−24 8.9	2.034	3.030	4.7	21.7
7 10	19 29.11	−24 21.2	2.021	3.037	1.1	21.4
7 20	19 19.40	−24 29.5	2.037	3.044	3.2	21.6
7 30	19 10.48	−24 32.7	2.081	3.050	6.9	21.8
8 9	19 3.18	−24 30.7	2.150	3.056	10.2	22.0
8 19	18 58.04	−24 24.3	2.242	3.061	13.0	22.2
312455 2008 KV_{41}			7 12.3 104°.32		3°.9/13.8 17	
6 10	19 48.53	− 9 48.3	2.396	3.246	11.4	21.3
6 20	19 43.13	− 9 28.6	2.331	3.255	8.8	21.1
6 30	19 36.32	− 9 18.3	2.290	3.264	6.1	20.9
7 10	19 28.68	− 9 17.5	2.276	3.274	4.1	20.8
7 20	19 20.90	− 9 25.3	2.288	3.282	4.4	20.9
7 30	19 13.71	− 9 40.5	2.329	3.291	6.7	21.0
8 9	19 7.75	−10 1.1	2.395	3.300	9.3	21.2
8 19	19 3.48	−10 25.1	2.484	3.308	11.7	21.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
1940 Whipple			7 12.3 207°.87		1°.4/12.7 18	
	h m	° ′			°	m
6 10	19 49.63	−17 42.3	2.373	3.243	10.8	16.2
6 20	19 44.04	−17 35.5	2.297	3.240	7.9	16.0
6 30	19 36.89	−17 33.1	2.246	3.238	4.7	15.8
7 10	19 28.79	−17 34.1	2.222	3.236	1.7	15.6
7 20	19 20.48	−17 37.3	2.226	3.233	2.9	15.7
7 30	19 12.75	−17 41.7	2.258	3.230	6.2	15.9
8 9	19 6.31	−17 46.4	2.317	3.227	9.3	16.1
8 19	19 1.67	−17 50.7	2.398	3.224	12.1	16.3
101738 1999 FY_{4}			7 12.3 247°.21		2°.5/12.9 18	
6 10	19 53.61	−15 19.9	1.568	2.446	15.0	19.9
6 20	19 47.74	−15 21.9	1.488	2.434	11.2	19.6
6 30	19 39.36	−15 34.1	1.430	2.421	6.9	19.3
7 10	19 29.30	−15 54.7	1.396	2.408	2.9	19.0
7 20	19 18.67	−16 21.3	1.388	2.394	4.4	19.1
7 30	19 8.78	−16 51.0	1.406	2.380	8.9	19.3
8 9	19 0.84	−17 21.1	1.447	2.366	13.3	19.5
8 19	18 55.64	−17 49.7	1.509	2.351	17.1	19.8
357329 2003 LK			7 12.3 33°.12		2°.7/13.6 16	
6 10	19 47.61	−12 20.4	1.855	2.727	13.3	20.4
6 20	19 42.87	−12 49.1	1.795	2.736	9.9	20.2
6 30	19 36.33	−13 29.8	1.758	2.746	6.3	20.0
7 10	19 28.70	−14 20.3	1.746	2.756	3.1	19.8
7 20	19 20.85	−15 17.0	1.761	2.766	3.8	19.9
7 30	19 13.71	−16 16.1	1.802	2.777	7.2	20.1
8 9	19 8.12	−17 14.0	1.868	2.788	10.7	20.4
8 19	19 4.63	−18 7.8	1.956	2.800	13.7	20.6
288216 2003 YJ_{41}			7 12.3 279°.12		0°.5/12.1 18	
6 10	19 52.20	−20 14.8	1.495	2.386	14.8	20.6
6 20	19 46.93	−20 58.7	1.416	2.372	10.8	20.3
6 30	19 39.01	−21 51.4	1.360	2.359	6.2	20.0
7 10	19 29.25	−22 48.1	1.329	2.345	1.2	19.6
7 20	19 18.84	−23 43.4	1.323	2.331	4.2	19.8
7 30	19 9.17	−24 32.5	1.342	2.317	9.2	20.1
8 9	19 1.56	−25 12.6	1.384	2.303	13.8	20.3
8 19	18 56.87	−25 43.0	1.447	2.289	17.7	20.5
47306 1999 XB_{4}			7 12.3 116°.22		1°.1/11.9 18	
6 10	19 53.39	−21 59.3	1.522	2.413	14.6	18.4
6 20	19 47.54	−22 44.6	1.461	2.417	10.6	18.2
6 30	19 39.19	−23 35.2	1.423	2.421	6.0	18.0
7 10	19 29.26	−24 26.0	1.409	2.425	1.4	17.7
7 20	19 18.96	−25 12.0	1.421	2.428	4.2	17.9
7 30	19 9.63	−25 49.4	1.459	2.432	8.8	18.1
8 9	19 2.43	−26 16.9	1.520	2.435	13.0	18.4
8 19	18 58.08	−26 34.7	1.602	2.439	16.6	18.6
38493 1999 TT_{117}			7 12.3 52°.24		0°.6/12.1 18	
6 10	19 50.29	−23 29.9	2.192	3.073	11.2	18.8
6 20	19 44.64	−23 35.0	2.124	3.075	8.1	18.6
6 30	19 37.27	−23 41.1	2.080	3.077	4.6	18.4
7 10	19 28.88	−23 46.0	2.063	3.079	1.0	18.2
7 20	19 20.29	−23 48.1	2.073	3.081	3.1	18.3
7 30	19 12.41	−23 46.2	2.111	3.083	6.6	18.6
8 9	19 6.00	−23 40.3	2.175	3.085	9.9	18.8
8 19	19 1.60	−23 31.0	2.261	3.087	12.7	19.0
239141 2006 JC_{40}			7 12.3 340°.32		8°.5/14.4 18	
6 10	19 46.94	− 3 45.2	1.528	2.383	16.5	19.5
6 20	19 42.79	− 2 47.7	1.456	2.372	13.6	19.3
6 30	19 36.47	− 2 8.2	1.404	2.362	10.7	19.1
7 10	19 28.76	− 1 49.9	1.373	2.353	8.7	18.9
7 20	19 20.63	− 1 53.9	1.366	2.344	8.9	18.9
7 30	19 13.21	− 2 18.9	1.383	2.336	11.1	19.0
8 9	19 7.54	− 3 0.7	1.420	2.330	14.1	19.2
8 19	19 4.30	− 3 53.9	1.477	2.324	17.2	19.4
124583 2001 SF_{16}			7 12.3 343°.63		1°.5/12.7 18	
6 10	19 52.17	−17 55.2	1.171	2.072	17.3	20.0
6 20	19 47.16	−18 4.0	1.110	2.069	12.8	19.8
6 30	19 39.18	−18 23.1	1.068	2.066	7.5	19.5
7 10	19 29.28	−18 49.5	1.049	2.064	2.1	19.1
7 20	19 18.89	−19 19.0	1.052	2.062	4.6	19.3
7 30	19 9.64	−19 48.1	1.079	2.060	10.1	19.6
8 9	19 2.91	−20 14.0	1.128	2.059	15.1	19.9
8 19	18 59.52	−20 35.2	1.194	2.058	19.3	20.1
523000 2016 PG_{121}			7 12.3 292°.73		1°.8/12.9 18	
6 10	19 49.78	−16 4.3	1.760	2.640	13.5	21.6
6 20	19 44.74	−16 17.1	1.679	2.627	10.0	21.4
6 30	19 37.56	−16 39.1	1.621	2.614	6.1	21.1
7 10	19 28.97	−17 8.3	1.588	2.601	2.2	20.8
7 20	19 19.92	−17 42.1	1.581	2.589	3.7	20.9
7 30	19 11.50	−18 17.3	1.600	2.576	7.9	21.1
8 9	19 4.75	−18 51.5	1.644	2.564	11.9	21.3
8 19	19 0.37	−19 22.8	1.709	2.552	15.4	21.5

325705 2009 UB_{72} 7 12.3 250°.33 1°.8/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 47.35	−15 20.8	2.711	3.575	9.8	21.1
6 20	19 42.29	−15 16.9	2.629	3.567	7.3	20.9
6 30	19 35.87	−15 18.5	2.571	3.559	4.5	20.7
7 10	19 28.63	−15 24.8	2.540	3.551	2.1	20.5
7 20	19 21.15	−15 34.8	2.538	3.543	2.9	20.6
7 30	19 14.13	−15 47.3	2.564	3.535	5.7	20.7
8 9	19 8.16	−16 1.0	2.617	3.526	8.5	20.9
8 19	19 3.73	−16 15.0	2.693	3.518	10.9	21.1

139284 2001 JM_{6} 7 12.3 68°.32 2°.6/11.7 17

6 10	19 56.94	−27 18.4	1.370	2.264	15.7	18.9
6 20	19 50.05	−27 33.6	1.326	2.282	11.3	18.7
6 30	19 40.50	−27 46.3	1.304	2.301	6.6	18.5
7 10	19 29.48	−27 51.9	1.307	2.320	2.7	18.3
7 20	19 18.45	−27 47.6	1.334	2.339	5.0	18.5
7 30	19 8.87	−27 33.0	1.387	2.358	9.4	18.8
8 9	19 1.86	−27 10.3	1.462	2.376	13.5	19.1
8 19	18 57.97	−26 42.0	1.556	2.395	16.9	19.4

180439 2004 BN_{107} 7 12.3 107°.10 3°.5/11.2 17

6 10	19 56.60	−28 53.4	1.634	2.520	14.0	20.7
6 20	19 49.68	−29 34.3	1.583	2.535	10.2	20.5
6 30	19 40.29	−30 12.3	1.555	2.548	6.3	20.3
7 10	19 29.46	−30 41.8	1.552	2.562	3.5	20.1
7 20	19 18.46	−30 59.0	1.576	2.575	5.3	20.3
7 30	19 8.64	−31 2.6	1.626	2.588	9.1	20.5
8 9	19 1.06	−30 54.0	1.699	2.600	12.7	20.8
8 19	18 56.35	−30 36.0	1.792	2.612	15.8	21.0

163983 2003 UK_{129} 7 12.3 301°.69 6°.3/10.9 18

6 10	19 57.11	−37 35.5	1.727	2.604	13.8	19.3
6 20	19 50.34	−37 57.9	1.654	2.593	10.8	19.0
6 30	19 40.82	−38 9.3	1.604	2.581	7.9	18.8
7 10	19 29.59	−38 3.9	1.577	2.570	6.3	18.7
7 20	19 17.99	−37 38.4	1.577	2.559	7.5	18.8
7 30	19 7.53	−36 53.1	1.601	2.548	10.4	18.9
8 9	18 59.44	−35 51.9	1.649	2.537	13.7	19.1
8 19	18 54.44	−34 40.3	1.717	2.527	16.7	19.3

441437 2008 HM_{15} 7 12.3 307°.09 4°.8/ 9.5 18

6 10	19 50.75	−32 15.9	2.118	3.000	11.4	20.2
6 20	19 45.45	−33 36.5	2.043	2.989	8.6	20.0
6 30	19 38.00	−34 55.1	1.994	2.978	6.0	19.8
7 10	19 29.09	−36 5.7	1.970	2.967	4.8	19.7
7 20	19 19.66	−37 3.0	1.974	2.956	6.2	19.8
7 30	19 10.80	−37 43.7	2.005	2.945	9.0	20.0
8 9	19 3.56	−38 7.5	2.059	2.935	11.9	20.1
8 19	18 58.68	−38 16.2	2.133	2.925	14.5	20.3

246359 2007 TT_{335} 7 12.3 79°.40 1°.5/12.6 17

6 10	19 54.78	−18 35.7	1.311	2.203	16.4	20.4
6 20	19 48.65	−18 29.4	1.257	2.211	12.0	20.1
6 30	19 39.83	−18 30.3	1.223	2.219	7.0	19.9
7 10	19 29.42	−18 36.1	1.212	2.227	2.1	19.6
7 20	19 18.76	−18 44.3	1.227	2.235	4.3	19.8
7 30	19 9.34	−18 53.0	1.266	2.243	9.3	20.1
8 9	19 2.32	−19 0.7	1.327	2.252	13.8	20.4
8 19	18 58.36	−19 6.8	1.408	2.260	17.6	20.6

469537 2003 SZ_{298} 7 12.3 343°.54 8°.5/12.3 17

6 10	19 45.89	−11 8.0	1.080	1.980	18.5	19.4
6 20	19 42.78	− 9 16.5	1.008	1.958	14.8	19.1
6 30	19 36.82	− 7 33.3	0.955	1.938	11.0	18.8
7 10	19 28.91	− 6 5.1	0.922	1.919	8.6	18.6
7 20	19 20.36	− 4 57.5	0.911	1.903	9.6	18.6
7 30	19 12.74	− 4 14.2	0.920	1.889	13.2	18.8
8 9	19 7.47	− 3 54.4	0.948	1.877	17.5	19.0
8 19	19 5.42	− 3 54.1	0.992	1.868	21.5	19.2

181534 2006 UC_{152} 7 12.3 82°.35 0°.7/12.6 17

6 10	19 49.70	−18 51.6	2.086	2.963	11.8	20.7
6 20	19 44.28	−19 4.2	2.020	2.968	8.6	20.5
6 30	19 37.11	−19 21.9	1.978	2.973	4.9	20.3
7 10	19 28.91	−19 42.5	1.963	2.978	1.2	20.0
7 20	19 20.48	−20 3.9	1.975	2.983	3.0	20.2
7 30	19 12.75	−20 24.0	2.014	2.988	6.7	20.4
8 9	19 6.50	−20 41.7	2.079	2.993	10.1	20.6
8 19	19 2.27	−20 56.1	2.166	2.998	13.0	20.8

57845 2001 XN_{71} 7 12.3 33°.94 2°.6/13.5 18

6 10	19 48.27	−12 41.8	1.999	2.867	12.6	19.2
6 20	19 43.32	−13 2.2	1.931	2.870	9.5	19.0
6 30	19 36.61	−13 33.4	1.885	2.872	6.0	18.8
7 10	19 28.82	−14 13.8	1.866	2.875	3.0	18.7
7 20	19 20.77	−15 0.3	1.873	2.879	3.7	18.7
7 30	19 13.36	−15 49.9	1.908	2.882	7.0	18.9
8 9	19 7.38	−16 39.4	1.968	2.885	10.4	19.1
8 19	19 3.42	−17 26.4	2.050	2.889	13.4	19.3

443060 2013 FN_{15} 7 12.3 202°.71 4°.4/14.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 47.64	− 5 40.0	2.776	3.604	10.6	21.9
6 20	19 42.45	− 5 35.7	2.694	3.600	8.5	21.7
6 30	19 35.98	− 5 42.6	2.636	3.596	6.2	21.6
7 10	19 28.70	− 6 0.6	2.604	3.591	4.6	21.5
7 20	19 21.19	− 6 28.7	2.601	3.586	4.7	21.5
7 30	19 14.10	− 7 5.3	2.625	3.580	6.4	21.6
8 9	19 8.01	− 7 47.9	2.676	3.574	8.7	21.7
8 19	19 3.38	− 8 33.9	2.751	3.568	10.9	21.8

483166 2015 PB_{36} 7 12.3 324°.41 1°.7/13.1 18

6 10	19 47.36	−14 34.1	1.801	2.680	13.3	20.6
6 20	19 43.01	−15 16.8	1.718	2.665	9.9	20.3
6 30	19 36.62	−16 12.1	1.658	2.651	6.0	20.1
7 10	19 28.86	−17 17.1	1.624	2.637	2.2	19.8
7 20	19 20.60	−18 27.5	1.616	2.624	3.5	19.9
7 30	19 12.89	−19 38.7	1.634	2.611	7.7	20.1
8 9	19 6.72	−20 46.4	1.677	2.599	11.6	20.3
8 19	19 2.81	−21 47.6	1.742	2.587	15.1	20.5

43514 2001 DO_{5} 7 12.3 285°.53 4°.5/10.4 18

6 10	19 51.80	−34 36.5	2.312	3.188	10.9	19.2
6 20	19 45.91	−35 17.5	2.245	3.185	8.3	19.0
6 30	19 38.10	−35 52.8	2.202	3.183	5.8	18.9
7 10	19 29.11	−36 18.0	2.186	3.181	4.5	18.8
7 20	19 19.85	−36 30.3	2.196	3.179	5.6	18.9
7 30	19 11.31	−36 28.6	2.233	3.176	8.1	19.0
8 9	19 4.38	−36 13.9	2.295	3.174	10.7	19.2
8 19	18 59.64	−35 48.7	2.378	3.172	13.1	19.4

326324 1999 XP_{69} 7 12.3 283°.24 1°.3/12.6 17

6 10	19 53.49	−18 42.1	1.542	2.427	14.8	21.2
6 20	19 47.89	−18 38.0	1.451	2.402	11.0	20.9
6 30	19 39.62	−18 40.2	1.381	2.377	6.5	20.6
7 10	19 29.46	−18 46.9	1.337	2.352	1.9	20.2
7 20	19 18.55	−18 55.7	1.317	2.326	4.1	20.3
7 30	19 8.28	−19 4.8	1.324	2.300	9.2	20.5
8 9	18 59.98	−19 12.8	1.353	2.274	13.9	20.7
8 19	18 54.55	−19 19.2	1.402	2.247	18.0	20.9

168212 2006 JJ_{43} 7 12.3 350°.39 5°.6/14.3 17

6 10	19 47.39	− 8 22.3	1.494	2.366	15.9	19.7
6 20	19 43.16	− 8 10.3	1.426	2.361	12.5	19.5
6 30	19 36.72	− 8 15.3	1.378	2.357	8.8	19.3
7 10	19 28.87	− 8 37.5	1.353	2.353	5.9	19.1
7 20	19 20.64	− 9 15.3	1.353	2.350	6.2	19.1
7 30	19 13.19	−10 4.9	1.376	2.348	9.4	19.3
8 9	19 7.55	−11 1.6	1.422	2.347	13.1	19.5
8 19	19 4.41	−12 0.7	1.489	2.346	16.5	19.7

309688 2008 FD_{3} 7 12.3 291°.32 0°.2/12.2 18

6 10	19 49.43	−21 0.7	2.124	3.004	11.5	21.0
6 20	19 44.16	−21 24.7	2.051	3.002	8.3	20.8
6 30	19 37.11	−21 52.8	2.002	2.999	4.7	20.6
7 10	19 28.95	−22 22.2	1.980	2.996	0.9	20.3
7 20	19 20.49	−22 50.1	1.986	2.994	3.0	20.5
7 30	19 12.66	−23 14.5	2.019	2.991	6.8	20.7
8 9	19 6.28	−23 33.9	2.077	2.989	10.2	20.9
8 19	19 1.93	−23 48.2	2.157	2.986	13.1	21.1

511080 2013 TE_{80} 7 12.3 254°.46 0°.4/12.4 17

6 10	19 53.03	−19 35.8	1.773	2.654	13.4	22.3
6 20	19 47.19	−19 54.7	1.689	2.639	9.8	22.1
6 30	19 39.05	−20 20.0	1.627	2.623	5.7	21.8
7 10	19 29.36	−20 48.5	1.592	2.608	1.2	21.5
7 20	19 19.12	−21 17.1	1.583	2.592	3.6	21.6
7 30	19 9.53	−21 43.1	1.601	2.575	8.1	21.8
8 9	19 1.69	−22 4.7	1.643	2.558	12.2	22.1
8 19	18 56.38	−22 21.4	1.707	2.541	15.8	22.2

259041 2002 TR_{256} 7 12.3 294°.09 4°.8/10.7 18

6 10	19 54.39	−30 36.1	1.470	2.365	14.8	19.7
6 20	19 48.71	−31 27.5	1.401	2.355	11.1	19.5
6 30	19 40.11	−32 16.3	1.353	2.345	7.2	19.2
7 10	19 29.57	−32 55.5	1.329	2.335	4.8	19.1
7 20	19 18.44	−33 19.3	1.330	2.325	6.7	19.2
7 30	19 8.33	−33 25.2	1.355	2.316	10.6	19.4
8 9	19 0.61	−33 14.4	1.403	2.307	14.7	19.6
8 19	18 56.13	−32 50.5	1.469	2.298	18.2	19.8

272566 2005 UX_{493} 7 12.3 216°.56 3°.5/10.9 18

6 10	19 52.04	−32 22.1	2.489	3.363	10.2	20.9
6 20	19 45.93	−32 50.0	2.416	3.359	7.6	20.7
6 30	19 38.07	−33 13.4	2.369	3.355	5.0	20.5
7 10	19 29.13	−33 29.1	2.348	3.350	3.5	20.4
7 20	19 19.96	−33 34.5	2.355	3.346	4.6	20.5
7 30	19 11.44	−33 28.8	2.390	3.341	7.2	20.6
8 9	19 4.37	−33 12.8	2.450	3.336	9.9	20.8
8 19	18 59.32	−32 48.6	2.533	3.331	12.3	21.0

204634 2005 YB_{73} 7 12.3 81°.76 2°.1/11.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 55.67	−23 41.8	1.254	2.152	16.5	20.5
6 20	19 49.54	−24 33.1	1.205	2.164	11.9	20.3
6 30	19 40.47	−25 28.2	1.177	2.176	6.8	20.1
7 10	19 29.61	−26 20.3	1.173	2.187	2.3	19.8
7 20	19 18.47	−27 3.5	1.193	2.199	5.1	20.0
7 30	19 8.67	−27 33.9	1.238	2.210	10.1	20.3
8 9	19 1.50	−27 51.4	1.304	2.222	14.5	20.6
8 19	18 57.66	−27 57.7	1.389	2.233	18.2	20.9

125548 2001 XA_4 7 12.3 324°.96 3°.6/11.5 18

6 10	19 50.30	−27 22.9	1.011	1.929	17.8	18.4
6 20	19 46.66	−27 49.1	0.939	1.907	13.3	18.0
6 30	19 39.38	−28 15.5	0.885	1.886	8.0	17.7
7 10	19 29.49	−28 35.4	0.852	1.866	3.7	17.4
7 20	19 18.65	−28 42.7	0.840	1.846	6.6	17.5
7 30	19 8.96	−28 34.1	0.849	1.829	12.3	17.7
8 9	19 2.25	−28 11.0	0.877	1.812	17.9	17.9
8 19	18 59.62	−27 36.7	0.920	1.797	22.7	18.2

76176 2000 EK_{35} 7 12.3 188°.18 2°.3/11.4 18

6 10	19 51.98	−26 30.9	1.972	2.856	12.1	19.6
6 20	19 46.19	−27 8.4	1.905	2.856	8.8	19.4
6 30	19 38.34	−27 46.1	1.861	2.856	5.2	19.2
7 10	19 29.22	−28 19.7	1.844	2.856	2.4	19.0
7 20	19 19.78	−28 45.8	1.853	2.855	4.2	19.1
7 30	19 11.11	−29 2.3	1.890	2.855	7.8	19.3
8 9	19 4.13	−29 9.0	1.951	2.854	11.2	19.5
8 19	18 59.49	−29 7.3	2.034	2.854	14.1	19.7

369054 2008 CB_{197} 7 12.3 310°.90 4°.6/13.9 17

6 10	19 49.49	−10 38.8	1.337	2.218	16.8	20.7
6 20	19 45.07	−10 42.2	1.261	2.205	13.0	20.4
6 30	19 38.04	−11 3.1	1.205	2.191	8.7	20.1
7 10	19 29.20	−11 41.2	1.171	2.178	5.1	19.9
7 20	19 19.74	−12 33.5	1.162	2.165	5.7	19.9
7 30	19 11.04	−13 35.2	1.176	2.153	9.9	20.1
8 9	19 4.39	−14 40.9	1.212	2.141	14.4	20.3
8 19	19 0.67	−15 45.6	1.267	2.130	18.5	20.5

1970 Sumeria 7 12.3 131°.29 1°.3/11.9 18

6 10	19 53.74	−25 38.0	2.201	3.078	11.3	17.2
6 20	19 47.11	−25 47.5	2.140	3.088	8.2	17.0
6 30	19 38.69	−25 56.3	2.104	3.099	4.7	16.8
7 10	19 29.27	−26 1.7	2.095	3.109	1.5	16.6
7 20	19 19.71	−26 1.8	2.114	3.119	3.3	16.7
7 30	19 10.96	−25 55.9	2.161	3.128	6.8	17.0
8 9	19 3.82	−25 44.5	2.233	3.137	10.0	17.2
8 19	18 58.80	−25 28.7	2.329	3.145	12.7	17.4

434683 2006 BY_{25} 7 12.3 108°.53 0°.1/12.3 17

6 10	19 55.84	−22 27.8	1.939	2.815	12.6	21.1
6 20	19 48.66	−22 12.9	1.883	2.831	9.1	20.9
6 30	19 39.56	−21 58.9	1.852	2.847	5.2	20.7
7 10	19 29.43	−21 44.2	1.847	2.863	1.0	20.5
7 20	19 19.24	−21 27.8	1.870	2.878	3.2	20.7
7 30	19 10.05	−21 9.6	1.921	2.893	7.1	20.9
8 9	19 2.68	−20 50.0	1.998	2.907	10.7	21.2
8 19	18 57.64	−20 29.9	2.097	2.922	13.6	21.4

63038 2000 WP_{70} 7 12.3 229°.39 1°.6/12.8 18

6 10	19 50.19	−17 26.4	2.369	3.238	10.9	19.2
6 20	19 44.51	−17 11.6	2.291	3.233	8.0	19.0
6 30	19 37.24	−17 1.0	2.237	3.228	4.8	18.8
7 10	19 29.01	−16 54.0	2.210	3.223	1.9	18.6
7 20	19 20.54	−16 49.6	2.212	3.218	3.0	18.7
7 30	19 12.66	−16 47.0	2.241	3.213	6.3	18.9
8 9	19 6.06	−16 45.7	2.297	3.207	9.4	19.1
8 19	19 1.29	−16 45.0	2.375	3.201	12.2	19.2

179357 2001 XP_{154} 7 12.3 208°.65 0°.4/12.5 18

6 10	19 50.00	−19 59.7	2.586	3.456	10.0	21.2
6 20	19 44.30	−20 8.4	2.506	3.451	7.3	21.0
6 30	19 37.11	−20 20.3	2.452	3.446	4.2	20.8
7 10	19 28.99	−20 33.7	2.425	3.440	0.9	20.6
7 20	19 20.63	−20 46.9	2.426	3.434	2.6	20.7
7 30	19 12.78	−20 58.7	2.457	3.428	5.8	20.9
8 9	19 6.12	−21 8.1	2.514	3.421	8.8	21.1
8 19	19 1.17	−21 14.9	2.594	3.414	11.4	21.2

140090 2001 SL_{127} 7 12.3 264°.01 0°.0/12.3 18

6 10	19 50.52	−21 12.0	2.079	2.959	11.7	20.5
6 20	19 45.02	−21 23.8	2.002	2.952	8.5	20.2
6 30	19 37.66	−21 39.0	1.948	2.944	4.9	20.0
7 10	19 29.11	−21 55.3	1.921	2.937	0.9	19.7
7 20	19 20.24	−22 10.4	1.921	2.929	3.1	19.9
7 30	19 12.01	−22 22.5	1.949	2.922	7.0	20.1
8 9	19 5.27	−22 30.9	2.002	2.914	10.5	20.3
8 19	19 0.64	−22 35.4	2.076	2.907	13.5	20.5

127155 2002 GR_{135} 7 12.3 217°.54 1°.3/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 53.37	−24 41.0	2.082	2.961	11.8	20.9
6 20	19 47.12	−25 2.5	2.005	2.954	8.5	20.6
6 30	19 38.87	−25 25.0	1.951	2.947	4.9	20.4
7 10	19 29.35	−25 45.1	1.925	2.940	1.5	20.2
7 20	19 19.47	−26 0.1	1.927	2.932	3.6	20.3
7 30	19 10.28	−26 8.3	1.956	2.924	7.3	20.5
8 9	19 2.70	−26 9.6	2.010	2.915	10.8	20.7
8 19	18 57.37	−26 4.8	2.087	2.906	13.8	20.9

205431 2001 JD_8 7 12.3 19°.58 1°.3/12.7 17

6 10	19 49.49	−18 6.3	1.511	2.402	14.6	19.6
6 20	19 44.64	−18 13.1	1.453	2.407	10.7	19.4
6 30	19 37.54	−18 27.5	1.416	2.413	6.3	19.2
7 10	19 29.09	−18 47.2	1.404	2.419	1.8	18.9
7 20	19 20.38	−19 9.3	1.417	2.426	3.8	19.0
7 30	19 12.62	−19 31.2	1.455	2.433	8.2	19.3
8 9	19 6.82	−19 50.9	1.516	2.441	12.3	19.6
8 19	19 3.59	−20 7.4	1.597	2.450	15.8	19.8

307082 2002 AK_{101} 7 12.3 130°.37 1°.6/11.5 18

6 10	19 50.20	−24 29.4	2.261	3.141	10.9	20.4
6 20	19 44.68	−25 17.6	2.194	3.145	7.9	20.3
6 30	19 37.42	−26 7.7	2.152	3.148	4.5	20.0
7 10	19 29.06	−26 55.9	2.138	3.152	1.7	19.9
7 20	19 20.43	−27 38.5	2.151	3.155	3.5	20.0
7 30	19 12.42	−28 13.3	2.193	3.158	6.9	20.2
8 9	19 5.83	−28 39.2	2.260	3.161	10.0	20.4
8 19	19 1.23	−28 56.4	2.349	3.164	12.6	20.6

520377 2014 HC_{205} 7 12.3 331°.29 0°.7/11.9 18

6 10	19 49.12	−20 55.2	2.000	2.883	12.0	20.8
6 20	19 44.11	−21 45.5	1.927	2.880	8.6	20.6
6 30	19 37.19	−22 41.6	1.879	2.876	4.9	20.4
7 10	19 29.03	−23 39.5	1.857	2.873	1.1	20.1
7 20	19 20.50	−24 35.0	1.863	2.870	3.4	20.3
7 30	19 12.59	−25 24.6	1.895	2.867	7.2	20.5
8 9	19 6.19	−26 6.2	1.953	2.864	10.8	20.7
8 19	19 1.93	−26 39.0	2.033	2.862	13.8	20.9

395865 2013 AW_{14} 7 12.3 94°.45 1°.4/11.7 18

6 10	19 51.02	−25 2.9	2.248	3.128	11.0	21.3
6 20	19 45.15	−25 28.7	2.191	3.141	7.9	21.1
6 30	19 37.60	−25 54.8	2.158	3.154	4.5	21.0
7 10	19 29.08	−26 18.3	2.152	3.166	1.5	20.8
7 20	19 20.42	−26 36.6	2.174	3.179	3.3	20.9
7 30	19 12.48	−26 48.3	2.224	3.191	6.6	21.2
8 9	19 6.04	−26 53.3	2.299	3.203	9.7	21.4
8 19	19 1.59	−26 52.2	2.397	3.215	12.3	21.6

219513 2001 OZ_{29} 7 12.3 346°.72 4°.6/11.1 18

6 10	19 52.28	−29 54.0	1.252	2.157	16.1	19.9
6 20	19 47.41	−30 34.9	1.191	2.151	11.9	19.7
6 30	19 39.44	−31 12.8	1.151	2.146	7.6	19.4
7 10	19 29.48	−31 40.8	1.133	2.141	4.6	19.2
7 20	19 19.03	−31 53.4	1.138	2.138	6.7	19.3
7 30	19 9.81	−31 48.7	1.166	2.135	11.1	19.6
8 9	19 3.23	−31 28.6	1.215	2.133	15.4	19.8
8 19	19 0.11	−30 56.7	1.283	2.131	19.2	20.1

382981 2005 CA_2 7 12.3 196°.11 1°.8/11.8 18

6 10	19 54.71	−27 33.5	2.227	3.102	11.2	21.0
6 20	19 47.91	−27 38.1	2.153	3.100	8.2	20.8
6 30	19 39.23	−27 40.3	2.103	3.097	4.8	20.6
7 10	19 29.41	−27 37.4	2.081	3.094	2.0	20.4
7 20	19 19.36	−27 27.6	2.087	3.091	3.6	20.5
7 30	19 10.08	−27 10.4	2.122	3.087	7.1	20.7
8 9	19 2.41	−26 46.9	2.182	3.083	10.3	20.9
8 19	18 56.93	−26 18.9	2.265	3.078	13.1	21.1

510706 2012 UT_{178} 7 12.3 230°.50 2°.3/11.4 18

6 10	19 52.41	−26 52.4	2.057	2.939	11.7	22.1
6 20	19 46.49	−27 26.0	1.983	2.933	8.6	21.9
6 30	19 38.54	−27 59.4	1.933	2.928	5.1	21.7
7 10	19 29.30	−28 28.7	1.910	2.922	2.4	21.5
7 20	19 19.70	−28 50.5	1.914	2.915	4.1	21.6
7 30	19 10.80	−29 3.0	1.945	2.909	7.7	21.8
8 9	19 3.54	−29 6.1	2.001	2.902	11.0	22.0
8 19	18 58.56	−29 1.0	2.078	2.895	14.0	22.2

209474 2004 HK_1 7 12.3 129°.56 18°.2/15.7 18

6 10	19 55.89	+ 9 27.1	1.130	1.934	24.2	19.7
6 20	19 49.80	+11 53.5	1.083	1.939	21.8	19.6
6 30	19 40.72	+13 45.2	1.053	1.944	19.7	19.4
7 10	19 29.74	+14 52.3	1.039	1.948	18.4	19.4
7 20	19 18.30	+15 9.4	1.043	1.952	18.3	19.4
7 30	19 8.04	+14 37.8	1.065	1.956	19.4	19.5
8 9	19 0.34	+13 26.2	1.103	1.959	21.3	19.6
8 19	18 56.00	+11 46.6	1.157	1.963	23.4	19.8

432845 2011 HR_{47} 7 12.3 184°.92 1°.7/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 52.08	−16 11.0	1.995	2.865	12.6	21.4
6 20	19 46.13	−16 20.3	1.923	2.865	9.3	21.2
6 30	19 38.29	−16 37.0	1.874	2.865	5.6	21.0
7 10	19 29.27	−16 59.3	1.851	2.865	2.1	20.8
7 20	19 19.94	−17 24.8	1.856	2.863	3.4	20.9
7 30	19 11.30	−17 51.5	1.889	2.862	7.1	21.1
8 9	19 4.22	−18 17.2	1.947	2.860	10.7	21.3
8 19	18 59.29	−18 40.8	2.027	2.858	13.8	21.5

498987 2009 BA_{167} 7 12.3 172°.51 2°.3/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 54.15	−14 42.9	1.575	2.450	15.0	21.7
6 20	19 48.03	−15 0.8	1.508	2.452	11.2	21.4
6 30	19 39.53	−15 30.0	1.463	2.454	6.8	21.2
7 10	19 29.52	−16 8.1	1.443	2.456	2.8	20.9
7 20	19 19.12	−16 51.3	1.450	2.457	4.1	21.0
7 30	19 9.60	−17 36.1	1.482	2.457	8.5	21.3
8 9	19 2.06	−18 19.0	1.539	2.457	12.7	21.5
8 19	18 57.21	−18 58.1	1.616	2.457	16.3	21.8

25506 1999 XS_{95} 7 12.3 153°.79 3°.2/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 53.78	−30 8.4	2.302	3.177	10.9	19.0
6 20	19 47.27	−30 53.9	2.239	3.184	8.0	18.8
6 30	19 38.89	−31 36.6	2.202	3.191	5.1	18.7
7 10	19 29.38	−32 12.2	2.191	3.197	3.3	18.5
7 20	19 19.62	−32 37.6	2.209	3.202	4.6	18.6
7 30	19 10.59	−32 51.2	2.254	3.207	7.5	18.8
8 9	19 3.14	−32 53.5	2.325	3.212	10.3	19.0
8 19	18 57.84	−32 46.2	2.418	3.216	12.8	19.2

441419 2008 GS_{50} 7 12.3 110°.71 2°.9/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 51.23	−29 20.2	2.238	3.119	11.0	21.3
6 20	19 45.47	−29 54.7	2.173	3.121	8.0	21.1
6 30	19 37.89	−30 26.9	2.132	3.123	5.0	20.9
7 10	19 29.19	−30 53.0	2.118	3.126	2.9	20.8
7 20	19 20.26	−31 10.3	2.131	3.128	4.4	20.9
7 30	19 12.04	−31 17.3	2.172	3.131	7.3	21.1
8 9	19 5.35	−31 14.5	2.237	3.133	10.3	21.3
8 19	19 0.78	−31 3.3	2.325	3.135	12.9	21.5

188980 2008 FR_{15} 7 12.3 143°.18 2°.3/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 50.16	−26 43.3	2.273	3.154	10.8	20.4
6 20	19 44.71	−27 33.4	2.204	3.155	7.8	20.2
6 30	19 37.48	−28 23.8	2.161	3.155	4.7	20.0
7 10	19 29.13	−29 10.5	2.145	3.156	2.4	19.8
7 20	19 20.48	−29 50.1	2.157	3.157	4.0	19.9
7 30	19 12.44	−30 20.2	2.196	3.157	7.1	20.1
8 9	19 5.84	−30 40.1	2.261	3.158	10.1	20.3
8 19	19 1.26	−30 50.6	2.347	3.158	12.8	20.5

312744 2010 TM_{35} 7 12.3 345°.52 6°.5/ 9.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 52.38	−37 35.2	1.932	2.811	12.5	20.8
6 20	19 46.82	−38 38.2	1.869	2.807	9.8	20.6
6 30	19 38.88	−39 33.1	1.830	2.803	7.5	20.5
7 10	19 29.41	−40 13.8	1.816	2.800	6.5	20.4
7 20	19 19.56	−40 35.8	1.826	2.797	7.7	20.5
7 30	19 10.58	−40 37.6	1.862	2.794	10.1	20.6
8 9	19 3.59	−40 21.1	1.920	2.792	12.8	20.8
8 19	18 59.29	−39 50.0	1.998	2.790	15.3	21.0

162909 2001 KQ_{41} 7 12.3 83°.89 6°.0/14.4 17 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 49.97	− 5 56.1	1.892	2.737	14.2	19.7
6 20	19 44.56	− 5 26.7	1.830	2.745	11.3	19.5
6 30	19 37.36	− 5 12.1	1.789	2.753	8.4	19.3
7 10	19 29.10	− 5 12.9	1.774	2.761	6.3	19.2
7 20	19 20.64	− 5 28.7	1.784	2.769	6.4	19.3
7 30	19 12.91	− 5 57.2	1.819	2.777	8.6	19.4
8 9	19 6.71	− 6 35.1	1.879	2.785	11.4	19.6
8 19	19 2.59	− 7 18.6	1.961	2.793	14.2	19.8

340570 2006 KY_{115} 7 12.3 210°.57 4°.9/ 9.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 54.77	−33 48.7	2.210	3.084	11.4	20.8
6 20	19 48.31	−34 58.8	2.139	3.078	8.7	20.6
6 30	19 39.66	−36 4.7	2.093	3.073	6.1	20.4
7 10	19 29.57	−37 0.7	2.073	3.067	4.9	20.3
7 20	19 19.01	−37 42.1	2.081	3.060	6.2	20.4
7 30	19 9.11	−38 6.6	2.116	3.053	8.8	20.6
8 9	19 0.90	−38 14.7	2.176	3.046	11.6	20.7
8 19	18 55.10	−38 9.0	2.256	3.038	14.1	20.9

344741 2003 UT_{215} 7 12.3 219°.84 6°.0/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 55.82	−37 46.2	2.256	3.122	11.5	21.4
6 20	19 49.11	−38 51.7	2.185	3.115	9.0	21.3
6 30	19 40.13	−39 50.0	2.138	3.107	6.9	21.1
7 10	19 29.66	−40 35.2	2.118	3.099	6.0	21.1
7 20	19 18.72	−41 3.1	2.125	3.090	7.1	21.1
7 30	19 8.51	−41 11.8	2.157	3.081	9.4	21.2
8 9	19 0.09	−41 2.9	2.214	3.071	11.9	21.4
8 19	18 54.17	−40 39.7	2.291	3.062	14.2	21.5

475560 2006 TP_{93} 7 12.3 304°.32 3°.7/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 49.18	−12 27.8	1.912	2.780	13.1	20.8
6 20	19 44.16	−12 7.1	1.831	2.768	10.0	20.6
6 30	19 37.24	−11 55.7	1.773	2.756	6.6	20.3
7 10	19 29.10	−11 53.7	1.739	2.745	3.9	20.2
7 20	19 20.59	−12 0.4	1.733	2.734	4.6	20.2
7 30	19 12.68	−12 14.3	1.752	2.723	7.8	20.3
8 9	19 6.27	−12 33.5	1.796	2.712	11.3	20.5
8 19	19 1.98	−12 55.6	1.861	2.701	14.5	20.7

191695 2004 RK_{154} 7 12.3 10°.44 0°.6/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 52.93	−21 27.6	1.441	2.335	15.1	19.4
6 20	19 47.26	−21 6.7	1.380	2.336	11.0	19.1
6 30	19 39.10	−20 48.6	1.339	2.337	6.3	18.9
7 10	19 29.45	−20 31.5	1.323	2.339	1.4	18.5
7 20	19 19.54	−20 14.3	1.332	2.342	3.9	18.7
7 30	19 10.71	−19 56.7	1.367	2.344	8.7	19.0
8 9	19 4.07	−19 38.8	1.424	2.348	13.1	19.3
8 19	19 0.27	−19 21.1	1.500	2.352	16.8	19.5

347566 2000 VS_{1} 7 12.3 309°.83 9°.1/13.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 49.83	− 3 6.2	1.566	2.413	16.6	20.2
6 20	19 44.98	− 1 54.0	1.488	2.397	13.8	20.0
6 30	19 37.87	− 0 58.5	1.430	2.382	11.1	19.7
7 10	19 29.25	− 0 23.6	1.394	2.367	9.3	19.6
7 20	19 20.12	− 0 11.8	1.381	2.353	9.5	19.6
7 30	19 11.64	− 0 22.8	1.392	2.338	11.7	19.7
8 9	19 4.90	− 0 53.2	1.425	2.325	14.7	19.8
8 19	19 0.66	− 1 37.7	1.476	2.311	17.8	20.0

115644 2003 UO_{132} 7 12.3 91°.36 4°.9/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 55.38	−34 15.6	1.892	2.772	12.7	19.6
6 20	19 48.75	−34 51.6	1.837	2.780	9.6	19.4
6 30	19 39.84	−35 20.4	1.804	2.788	6.6	19.2
7 10	19 29.59	−35 37.1	1.797	2.795	4.9	19.1
7 20	19 19.16	−35 38.5	1.817	2.803	6.2	19.2
7 30	19 9.78	−35 24.2	1.862	2.811	9.0	19.4
8 9	19 2.44	−34 56.5	1.931	2.819	12.0	19.6
8 19	18 57.75	−34 18.8	2.021	2.827	14.7	19.8

24728 Scagell 7 12.3 288°.85 5°.2/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 54.54	−30 59.0	1.489	2.383	14.7	18.0
6 20	19 48.87	−32 6.0	1.421	2.374	11.0	17.7
6 30	19 40.29	−33 11.0	1.376	2.366	7.3	17.5
7 10	19 29.73	−34 5.9	1.355	2.358	5.2	17.4
7 20	19 18.57	−34 44.4	1.358	2.350	7.1	17.4
7 30	19 8.39	−35 3.2	1.386	2.343	10.9	17.6
8 9	19 0.58	−35 3.2	1.436	2.335	14.7	17.9
8 19	18 56.02	−34 47.8	1.505	2.327	18.1	18.1

222529 2001 UY_{23} 7 12.3 158°.24 2°.9/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 56.86	−29 58.4	2.139	3.013	11.7	20.6
6 20	19 49.53	−30 18.8	2.076	3.020	8.6	20.4
6 30	19 40.18	−30 35.1	2.036	3.027	5.3	20.2
7 10	19 29.66	−30 43.9	2.024	3.033	3.0	20.0
7 20	19 18.96	−30 42.5	2.040	3.038	4.4	20.2
7 30	19 9.15	−30 30.6	2.084	3.043	7.6	20.4
8 9	19 1.14	−30 9.5	2.154	3.047	10.7	20.6
8 19	18 55.48	−29 41.7	2.245	3.051	13.4	20.8

22247 4611 $T\text{-}_{3}$ 7 12.3 261°.17 4°.7/10.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 52.05	−34 36.1	2.366	3.240	10.7	19.4
6 20	19 46.22	−35 29.0	2.291	3.231	8.2	19.2
6 30	19 38.42	−36 17.2	2.242	3.221	5.8	19.1
7 10	19 29.35	−36 55.7	2.218	3.211	4.7	19.0
7 20	19 19.89	−37 21.1	2.222	3.201	5.8	19.0
7 30	19 11.05	−37 31.6	2.252	3.191	8.3	19.2
8 9	19 3.75	−37 28.0	2.307	3.181	10.9	19.3
8 19	18 58.64	−37 12.4	2.384	3.171	13.3	19.5

498353 2007 VE_{307} 7 12.3 283°.22 4°.0/10.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 54.26	−27 31.8	1.391	2.288	15.3	21.4
6 20	19 48.83	−28 36.6	1.318	2.276	11.3	21.1
6 30	19 40.36	−29 43.6	1.267	2.263	7.0	20.8
7 10	19 29.77	−30 45.1	1.240	2.250	4.0	20.6
7 20	19 18.43	−31 34.1	1.238	2.237	6.3	20.7
7 30	19 8.00	−32 6.0	1.260	2.225	10.8	20.9
8 9	18 59.99	−32 20.3	1.304	2.212	15.2	21.1
8 19	18 55.33	−32 19.6	1.366	2.200	19.0	21.4

280323 2003 RM_{26} 7 12.3 341°.99 8°.7/13.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 50.74	− 6 21.0	1.447	2.309	16.9	19.4
6 20	19 45.67	− 4 43.4	1.378	2.301	13.8	19.2
6 30	19 38.25	− 3 19.3	1.330	2.293	10.7	19.0
7 10	19 29.33	− 2 13.6	1.304	2.286	8.8	18.9
7 20	19 19.99	− 1 29.8	1.302	2.279	9.3	18.9
7 30	19 11.50	− 1 8.9	1.324	2.274	11.8	19.0
8 9	19 4.95	− 1 8.4	1.366	2.269	15.1	19.2
8 19	19 1.04	− 1 24.2	1.427	2.265	18.2	19.4

198689 2005 CO_{19} 7 12.3 122°.94 0°.9/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 51.94	−18 18.9	2.139	3.010	11.8	21.2
6 20	19 45.85	−18 31.5	2.078	3.023	8.6	21.0
6 30	19 38.05	−18 49.2	2.041	3.035	5.0	20.8
7 10	19 29.25	−19 10.0	2.032	3.047	1.4	20.5
7 20	19 20.30	−19 31.5	2.050	3.058	3.0	20.7
7 30	19 12.07	−19 52.0	2.097	3.069	6.6	20.9
8 9	19 5.35	−20 10.2	2.169	3.080	9.9	21.2
8 19	19 0.65	−20 25.4	2.263	3.090	12.7	21.4

551 Ortrud 7 12.3 223°.30 0°.2/12.3 18

6 10	19 50.39	−21 33.7	2.395	3.270	10.6	14.7
6 20	19 44.75	−21 49.0	2.316	3.263	7.7	14.5
6 30	19 37.47	−22 7.0	2.261	3.257	4.4	14.3
7 10	19 29.16	−22 25.5	2.234	3.250	0.8	14.0
7 20	19 20.56	−22 42.5	2.236	3.243	2.8	14.2
7 30	19 12.52	−22 56.3	2.265	3.236	6.3	14.4
8 9	19 5.78	−23 6.2	2.320	3.228	9.4	14.6
8 19	19 0.89	−23 12.1	2.399	3.221	12.2	14.7

18004 Krystosek 7 12.3 256°.70 0°.3/12.4 18

6 10	19 53.94	−18 49.5	1.553	2.437	14.7	18.7
6 20	19 48.23	−19 27.4	1.470	2.422	10.8	18.4
6 30	19 39.87	−20 14.8	1.410	2.406	6.3	18.1
7 10	19 29.67	−21 7.9	1.374	2.390	1.3	17.8
7 20	19 18.76	−22 1.5	1.365	2.373	4.0	17.9
7 30	19 8.53	−22 51.1	1.381	2.356	9.0	18.2
8 9	19 0.27	−23 33.7	1.421	2.338	13.6	18.4
8 19	18 54.89	−24 8.1	1.481	2.321	17.5	18.6

1477 Bonsdorffia 7 12.3 247°.67 3°.1/11.1 18

6 10	19 53.15	−33 4.8	2.898	3.764	9.2	17.4
6 20	19 46.62	−33 18.3	2.809	3.747	6.9	17.2
6 30	19 38.49	−33 26.9	2.745	3.729	4.6	17.0
7 10	19 29.35	−33 27.8	2.709	3.711	3.1	16.9
7 20	19 19.94	−33 19.2	2.702	3.692	4.1	17.0
7 30	19 11.07	−33 0.6	2.724	3.673	6.5	17.1
8 9	19 3.47	−32 33.1	2.772	3.654	9.0	17.2
8 19	18 57.67	−31 58.5	2.844	3.634	11.3	17.4

499718 2011 AL_{77} 7 12.3 162°.52 4°.7/10.6 17

6 10	19 57.18	−32 56.8	1.948	2.824	12.6	21.3
6 20	19 50.09	−33 47.9	1.887	2.830	9.4	21.2
6 30	19 40.65	−34 33.7	1.850	2.834	6.4	21.0
7 10	19 29.78	−35 8.5	1.839	2.838	4.7	20.9
7 20	19 18.60	−35 28.2	1.855	2.842	6.1	21.0
7 30	19 8.36	−35 31.6	1.898	2.845	9.0	21.2
8 9	19 0.13	−35 20.1	1.965	2.848	12.1	21.4
8 19	18 54.58	−34 57.2	2.052	2.849	14.8	21.6

120925 1998 SC_{107} 7 12.3 335°.89 1°.9/11.7 18

6 10	19 49.16	−26 0.4	1.817	2.709	12.5	18.9
6 20	19 44.38	−26 18.2	1.742	2.698	9.1	18.7
6 30	19 37.46	−26 36.1	1.689	2.686	5.3	18.4
7 10	19 29.18	−26 50.8	1.662	2.676	2.0	18.2
7 20	19 20.53	−26 59.4	1.660	2.666	4.0	18.3
7 30	19 12.61	−27 0.3	1.685	2.656	8.0	18.5
8 9	19 6.42	−26 53.6	1.733	2.648	11.7	18.7
8 19	19 2.63	−26 40.2	1.802	2.640	15.0	18.9

47992 2000 YY_{103} 7 12.3 71°.89 2°.1/11.7 18

6 10	19 55.69	−24 47.5	1.371	2.266	15.6	18.8
6 20	19 49.30	−25 25.9	1.327	2.284	11.3	18.6
6 30	19 40.26	−26 5.6	1.304	2.302	6.5	18.4
7 10	19 29.69	−26 40.9	1.306	2.320	2.3	18.2
7 20	19 19.01	−27 7.4	1.333	2.338	4.8	18.4
7 30	19 9.64	−27 22.8	1.385	2.357	9.3	18.7
8 9	19 2.74	−27 27.6	1.459	2.375	13.4	19.0
8 19	18 58.89	−27 23.6	1.553	2.393	16.9	19.2

512159 2015 RW_{25} 7 12.3 320°.22 2°.8/11.5 18

6 10	19 52.14	−30 8.0	2.153	3.033	11.3	20.9
6 20	19 46.20	−30 15.9	2.080	3.028	8.4	20.7
6 30	19 38.35	−30 19.8	2.031	3.023	5.2	20.5
7 10	19 29.34	−30 16.6	2.009	3.018	2.8	20.3
7 20	19 20.09	−30 4.6	2.014	3.013	4.3	20.4
7 30	19 11.62	−29 43.2	2.046	3.008	7.4	20.6
8 9	19 4.78	−29 13.9	2.103	3.004	10.6	20.8
8 19	19 0.14	−28 38.7	2.182	3.000	13.4	21.0

181702 Forcalquier 7 12.3 332°.05 4°.7/13.6 18

6 10	19 45.04	−12 29.9	1.033	1.939	18.6	19.1
6 20	19 42.50	−12 21.8	0.957	1.915	14.3	18.7
6 30	19 36.92	−12 32.1	0.899	1.893	9.5	18.4
7 10	19 29.15	−13 1.3	0.861	1.871	5.2	18.1
7 20	19 20.51	−13 47.1	0.844	1.851	6.2	18.0
7 30	19 12.68	−14 44.5	0.848	1.833	11.3	18.3
8 9	19 7.27	−15 47.2	0.870	1.816	16.7	18.5
8 19	19 5.36	−16 49.0	0.910	1.801	21.6	18.7

39733 1996 XJ_{21} 7 12.3 185°.27 1°.6/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 51.07	−14 7.2	1.897	2.767	13.1	19.3
6 20	19 45.57	−14 55.6	1.825	2.767	9.7	19.1
6 30	19 38.08	−15 55.9	1.776	2.767	5.9	18.8
7 10	19 29.31	−17 4.5	1.753	2.766	2.1	18.6
7 20	19 20.15	−18 17.2	1.758	2.766	3.4	18.7
7 30	19 11.63	−19 29.3	1.791	2.765	7.3	18.9
8 9	19 4.67	−20 36.8	1.849	2.764	11.1	19.1
8 19	18 59.94	−21 37.4	1.929	2.763	14.3	19.3

474883 2005 SO_{160} 7 12.3 232°.86 1°.9/11.5 16

6 10	19 51.18	−27 35.6	2.663	3.536	9.7	22.8
6 20	19 45.28	−27 58.5	2.579	3.525	7.0	22.6
6 30	19 37.76	−28 20.3	2.521	3.514	4.2	22.4
7 10	19 29.23	−28 38.2	2.491	3.502	2.0	22.2
7 20	19 20.41	−28 49.9	2.489	3.490	3.4	22.3
7 30	19 12.10	−28 54.3	2.516	3.477	6.3	22.5
8 9	19 5.04	−28 51.4	2.569	3.464	9.1	22.7
8 19	18 59.76	−28 42.2	2.645	3.451	11.6	22.8

167442 2003 XG_{6} 7 12.3 285°.46 0°.9/12.5 18

6 10	19 53.84	−21 3.3	1.892	2.770	12.8	19.5
6 20	19 47.47	−20 34.0	1.820	2.769	9.3	19.2
6 30	19 39.08	−20 6.2	1.772	2.767	5.4	19.0
7 10	19 29.48	−19 39.1	1.751	2.766	1.4	18.7
7 20	19 19.67	−19 12.2	1.757	2.765	3.4	18.9
7 30	19 10.71	−18 45.6	1.790	2.764	7.4	19.1
8 9	19 3.49	−18 20.0	1.849	2.763	11.1	19.3
8 19	18 58.60	−17 55.8	1.929	2.761	14.3	19.5

321904 2010 TF_{17} 7 12.3 19°.71 1°.4/12.6 17

6 10	19 52.61	−19 53.2	1.126	2.031	17.5	20.4
6 20	19 47.48	−19 32.7	1.074	2.035	12.8	20.2
6 30	19 39.40	−19 18.3	1.041	2.039	7.5	19.9
7 10	19 29.57	−19 8.2	1.030	2.045	2.1	19.6
7 20	19 19.46	−19 0.5	1.042	2.051	4.6	19.7
7 30	19 10.70	−18 54.1	1.077	2.059	10.0	20.1
8 9	19 4.57	−18 48.3	1.133	2.067	14.9	20.4
8 19	19 1.73	−18 42.5	1.207	2.075	18.9	20.7

470692 2008 TC_{32} 7 12.3 296°.53 12°.4/16.1 16

6 10	19 48.60	+ 7 51.5	1.747	2.533	17.6	21.4
6 20	19 43.96	+ 9 0.8	1.668	2.517	15.7	21.2
6 30	19 37.26	+ 9 46.0	1.607	2.501	13.9	21.0
7 10	19 29.17	+10 2.1	1.567	2.486	12.7	20.9
7 20	19 20.58	+ 9 46.5	1.548	2.471	12.5	20.9
7 30	19 12.53	+ 9 0.1	1.551	2.456	13.6	20.9
8 9	19 6.02	+ 7 47.8	1.575	2.441	15.5	21.0
8 19	19 1.77	+ 6 16.6	1.618	2.426	17.7	21.1

75259 1999 XG_{9} 7 12.3 316°.34 2°.1/12.8 18

6 10	19 51.15	−17 51.0	1.276	2.173	16.4	18.7
6 20	19 46.48	−17 35.3	1.200	2.157	12.2	18.4
6 30	19 38.97	−17 27.4	1.145	2.142	7.4	18.1
7 10	19 29.53	−17 26.1	1.112	2.127	2.7	17.8
7 20	19 19.44	−17 29.5	1.103	2.112	4.6	17.8
7 30	19 10.26	−17 35.9	1.118	2.098	9.9	18.1
8 9	19 3.35	−17 43.5	1.154	2.085	14.8	18.3
8 19	18 59.60	−17 51.2	1.208	2.072	19.2	18.6

232896 2004 XC_{36} 7 12.3 121°.68 0°.6/12.5 17

6 10	19 53.43	−19 42.1	2.237	3.106	11.4	21.5
6 20	19 46.82	−19 45.0	2.179	3.123	8.3	21.3
6 30	19 38.56	−19 51.3	2.146	3.140	4.7	21.2
7 10	19 29.39	−19 59.1	2.141	3.156	1.1	20.9
7 20	19 20.11	−20 6.8	2.164	3.172	2.8	21.1
7 30	19 11.61	−20 13.3	2.215	3.187	6.4	21.3
8 9	19 4.62	−20 17.8	2.293	3.201	9.5	21.6
8 19	18 59.61	−20 20.3	2.394	3.215	12.2	21.8

71938 2000 WO_{73} 7 12.3 96°.20 4°.6/11.1 18

6 10	19 58.24	−30 47.4	1.452	2.342	15.2	19.1
6 20	19 51.23	−31 33.7	1.404	2.356	11.3	18.9
6 30	19 41.41	−32 14.9	1.379	2.370	7.2	18.7
7 10	19 29.95	−32 44.5	1.378	2.384	4.6	18.6
7 20	19 18.32	−32 57.9	1.402	2.397	6.4	18.7
7 30	19 8.06	−32 54.3	1.451	2.411	10.1	19.0
8 9	19 0.37	−32 36.1	1.522	2.424	13.9	19.2
8 19	18 55.91	−32 7.3	1.613	2.436	17.1	19.5

499686 2010 WU_{22} 7 12.3 167°.80 0°.5/12.5 17

6 10	19 54.77	−19 37.9	2.004	2.876	12.4	22.9
6 20	19 48.08	−19 49.4	1.936	2.881	9.0	22.7
6 30	19 39.42	−20 5.2	1.891	2.886	5.2	22.5
7 10	19 29.57	−20 23.0	1.874	2.889	1.2	22.2
7 20	19 19.47	−20 40.3	1.884	2.892	3.2	22.4
7 30	19 10.13	−20 55.5	1.922	2.894	7.1	22.7
8 9	19 2.46	−21 7.4	1.986	2.896	10.7	22.9
8 19	18 57.04	−21 16.0	2.072	2.897	13.8	23.1

228590 2002 AE_{38} 7 12.3 243°.95 0°.8/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 52.10	−17 52.7	1.889	2.765	12.9	20.8
6 20	19 46.44	−18 21.5	1.807	2.754	9.5	20.6
6 30	19 38.65	−18 58.1	1.748	2.742	5.5	20.4
7 10	19 29.46	−19 39.8	1.715	2.730	1.4	20.0
7 20	19 19.78	−20 23.1	1.710	2.718	3.3	20.2
7 30	19 10.70	−21 4.5	1.731	2.705	7.6	20.4
8 9	19 3.23	−21 41.8	1.778	2.692	11.5	20.6
8 19	18 58.07	−22 13.7	1.846	2.679	14.9	20.8

125825 2001 XQ_{173} 7 12.3 142°.44 0°.3/12.4 18

6 10	19 53.20	−20 1.1	1.937	2.814	12.6	19.9
6 20	19 46.98	−20 17.7	1.873	2.822	9.1	19.7
6 30	19 38.81	−20 38.8	1.833	2.829	5.2	19.5
7 10	19 29.46	−21 1.6	1.820	2.835	1.1	19.2
7 20	19 19.88	−21 23.7	1.833	2.842	3.2	19.4
7 30	19 11.10	−21 42.8	1.875	2.848	7.2	19.7
8 9	19 4.00	−21 58.0	1.941	2.853	10.8	19.9
8 19	18 59.16	−22 9.0	2.029	2.858	13.8	20.1

73742 1993 TB_{19} 7 12.3 298°.04 1°.5/11.8 18

6 10	19 51.08	−24 13.4	1.786	2.674	12.9	19.9
6 20	19 45.89	−24 43.0	1.704	2.658	9.4	19.6
6 30	19 38.42	−25 15.3	1.645	2.642	5.4	19.3
7 10	19 29.42	−25 46.4	1.612	2.627	1.7	19.0
7 20	19 19.91	−26 12.5	1.605	2.611	4.0	19.2
7 30	19 11.08	−26 31.0	1.624	2.595	8.2	19.4
8 9	19 3.99	−26 41.2	1.667	2.580	12.2	19.6
8 19	18 59.42	−26 43.5	1.731	2.565	15.6	19.8

425038 2009 KN_{16} 7 12.3 348°.01 2°.8/11.3 17

6 10	19 50.35	−23 43.0	1.161	2.071	16.7	19.9
6 20	19 46.18	−24 51.8	1.100	2.065	12.2	19.6
6 30	19 38.90	−26 7.9	1.060	2.060	7.1	19.3
7 10	19 29.55	−27 23.3	1.042	2.056	2.9	19.1
7 20	19 19.55	−28 29.7	1.047	2.053	5.8	19.2
7 30	19 10.65	−29 21.2	1.075	2.050	11.0	19.5
8 9	19 4.35	−29 55.7	1.124	2.049	15.8	19.8
8 19	19 1.52	−30 14.1	1.191	2.048	19.8	20.0

336255 2008 SW_{147} 7 12.3 232°.82 4°.3/14.2 18

6 10	19 50.52	− 7 40.2	2.321	3.162	12.1	21.3
6 20	19 44.91	− 7 39.6	2.231	3.148	9.5	21.1
6 30	19 37.63	− 7 51.2	2.165	3.134	6.7	20.9
7 10	19 29.27	− 8 14.8	2.124	3.120	4.6	20.7
7 20	19 20.52	− 8 49.1	2.112	3.105	4.8	20.7
7 30	19 12.21	− 9 32.0	2.127	3.089	7.2	20.8
8 9	19 5.11	−10 20.4	2.168	3.072	10.2	21.0
8 19	18 59.81	−11 11.4	2.232	3.055	12.9	21.1

195365 2002 FM_{25} 7 12.3 36°.95 6°.7/ 9.5 17

6 10	19 53.45	−31 38.7	1.256	2.159	16.2	18.8
6 20	19 48.15	−33 32.8	1.223	2.180	12.1	18.7
6 30	19 39.83	−35 21.0	1.213	2.201	8.4	18.5
7 10	19 29.69	−36 52.6	1.226	2.224	6.7	18.5
7 20	19 19.30	−37 59.6	1.262	2.247	8.6	18.7
7 30	19 10.34	−38 39.3	1.322	2.271	12.0	18.9
8 9	19 4.13	−38 53.9	1.403	2.295	15.4	19.2
8 19	19 1.32	−38 48.5	1.501	2.321	18.3	19.5

240724 2005 GG_{172} 7 12.3 119°.47 1°.6/11.7 18

6 10	19 51.74	−24 33.7	1.975	2.858	12.1	20.7
6 20	19 46.01	−25 8.1	1.910	2.861	8.7	20.5
6 30	19 38.31	−25 44.0	1.868	2.865	5.0	20.3
7 10	19 29.39	−26 17.6	1.854	2.868	1.7	20.0
7 20	19 20.19	−26 45.6	1.866	2.871	3.7	20.2
7 30	19 11.75	−27 5.9	1.905	2.874	7.5	20.4
8 9	19 4.97	−27 17.8	1.969	2.877	10.9	20.6
8 19	19 0.45	−27 22.3	2.055	2.880	13.9	20.9

339310 2004 XY_{99} 7 12.3 269°.51 1°.5/11.7 18

6 10	19 52.42	−23 30.8	1.932	2.815	12.4	21.1
6 20	19 46.81	−24 16.5	1.843	2.795	9.0	20.9
6 30	19 38.96	−25 6.5	1.778	2.775	5.2	20.6
7 10	19 29.55	−25 56.5	1.739	2.754	1.7	20.3
7 20	19 19.54	−26 42.0	1.728	2.733	4.0	20.4
7 30	19 10.06	−27 19.7	1.744	2.712	8.1	20.6
8 9	19 2.19	−27 47.7	1.784	2.690	11.9	20.8
8 19	18 56.72	−28 6.4	1.846	2.669	15.3	21.0

395541 2011 UK_{161} 7 12.3 235°.00 4°.9/10.0 18

6 10	19 53.16	−35 19.9	2.319	3.191	11.0	20.8
6 20	19 47.06	−36 12.5	2.248	3.185	8.4	20.7
6 30	19 38.94	−36 59.3	2.201	3.179	6.1	20.5
7 10	19 29.52	−37 35.7	2.181	3.172	4.9	20.4
7 20	19 19.74	−37 57.8	2.188	3.166	6.1	20.5
7 30	19 10.64	−38 4.3	2.222	3.159	8.5	20.6
8 9	19 3.16	−37 56.2	2.280	3.152	11.1	20.8
8 19	18 57.95	−37 36.1	2.359	3.145	13.4	20.9

511622 2015 BS_{59} 7 12.3 200°.78 1°.2/11.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 55.72	−24 25.3	1.819	2.700	13.1	22.0
6 20	19 49.06	−24 40.9	1.747	2.697	9.5	21.8
6 30	19 40.13	−24 57.3	1.698	2.694	5.5	21.5
7 10	19 29.75	−25 11.2	1.675	2.690	1.5	21.3
7 20	19 19.02	−25 19.5	1.679	2.685	3.8	21.4
7 30	19 9.14	−25 21.0	1.710	2.681	8.0	21.7
8 9	19 1.15	−25 15.6	1.766	2.675	11.9	21.9
8 19	18 55.74	−25 4.8	1.844	2.669	15.2	22.1

3524 Schulz 7 12.3 130°.74 6°.5/15.3 18 R

6 10	19 50.68	− 2 44.0	2.002	2.830	14.2	17.8
6 20	19 45.03	− 2 30.7	1.938	2.839	11.5	17.6
6 30	19 37.66	− 2 34.5	1.896	2.849	8.8	17.5
7 10	19 29.26	− 2 55.8	1.879	2.858	6.8	17.4
7 20	19 20.65	− 3 33.3	1.888	2.866	6.8	17.4
7 30	19 12.72	− 4 24.2	1.922	2.874	8.6	17.5
8 9	19 6.25	− 5 24.2	1.982	2.882	11.2	17.7
8 19	19 1.77	− 6 28.9	2.064	2.889	13.8	17.9

26229 1998 OG_{7} 7 12.3 96°.13 2°.4/13.3 18

6 10	19 48.97	−13 58.9	2.358	3.221	11.1	18.1
6 20	19 43.61	−13 55.3	2.295	3.231	8.3	17.9
6 30	19 36.78	−13 58.9	2.255	3.241	5.2	17.8
7 10	19 29.09	−14 8.9	2.242	3.251	2.7	17.6
7 20	19 21.25	−14 23.9	2.257	3.260	3.3	17.7
7 30	19 14.02	−14 42.3	2.299	3.270	6.2	17.9
8 9	19 8.06	−15 2.5	2.368	3.280	9.1	18.1
8 19	19 3.84	−15 22.9	2.459	3.289	11.7	18.3

439251 2012 TR_{274} 7 12.3 275°.13 1°.0/12.6 17

6 10	19 51.74	−19 6.5	1.826	2.707	13.1	21.3
6 20	19 46.15	−19 3.7	1.749	2.699	9.6	21.1
6 30	19 38.46	−19 5.9	1.696	2.691	5.6	20.8
7 10	19 29.44	−19 11.3	1.668	2.683	1.6	20.6
7 20	19 20.06	−19 18.0	1.666	2.675	3.4	20.7
7 30	19 11.39	−19 24.5	1.691	2.666	7.6	20.9
8 9	19 4.42	−19 29.8	1.741	2.658	11.5	21.1
8 19	18 59.79	−19 33.5	1.812	2.650	14.9	21.3

144628 2004 FE_{77} 7 12.3 194°.29 0°.2/12.3 17

6 10	19 54.74	−21 26.0	1.942	2.818	12.6	21.6
6 20	19 48.22	−21 45.0	1.868	2.816	9.1	21.4
6 30	19 39.61	−22 7.5	1.818	2.814	5.2	21.2
7 10	19 29.66	−22 30.5	1.795	2.811	1.0	20.9
7 20	19 19.37	−22 51.2	1.799	2.807	3.3	21.0
7 30	19 9.82	−23 7.5	1.831	2.803	7.5	21.3
8 9	19 1.98	−23 18.6	1.888	2.797	11.2	21.5
8 19	18 56.50	−23 24.8	1.967	2.792	14.4	21.7

438393 2006 UK_{64} 7 12.3 242°.17 5°.3/10.2 18

6 10	19 55.01	−37 19.2	2.346	3.212	11.1	21.2
6 20	19 48.40	−37 57.9	2.270	3.202	8.6	21.0
6 30	19 39.71	−38 28.9	2.219	3.192	6.4	20.8
7 10	19 29.69	−38 47.7	2.194	3.181	5.3	20.8
7 20	19 19.32	−38 51.0	2.196	3.170	6.3	20.8
7 30	19 9.69	−38 38.1	2.224	3.158	8.6	20.9
8 9	19 1.77	−38 10.7	2.277	3.147	11.2	21.1
8 19	18 56.19	−37 31.9	2.352	3.135	13.6	21.2

164896 1999 VE_{116} 7 12.3 319°.35 2°.3/13.1 18

6 10	19 49.82	−15 46.6	1.603	2.487	14.4	20.2
6 20	19 45.00	−15 44.4	1.528	2.477	10.7	20.0
6 30	19 37.92	−15 51.5	1.474	2.466	6.6	19.7
7 10	19 29.37	−16 6.5	1.444	2.457	2.8	19.4
7 20	19 20.37	−16 27.3	1.440	2.447	4.1	19.5
7 30	19 12.10	−16 51.3	1.461	2.438	8.4	19.7
8 9	19 5.64	−17 16.3	1.505	2.429	12.5	20.0
8 19	19 1.71	−17 40.1	1.570	2.421	16.1	20.2

46650 1995 SR_{19} 7 12.3 193°.43 1°.4/11.9 18

6 10	19 55.61	−24 31.0	1.905	2.783	12.7	20.1
6 20	19 48.93	−24 57.0	1.832	2.782	9.2	19.9
6 30	19 40.05	−25 24.3	1.784	2.780	5.3	19.6
7 10	19 29.77	−25 49.0	1.762	2.777	1.7	19.4
7 20	19 19.13	−26 7.8	1.768	2.773	3.8	19.5
7 30	19 9.29	−26 18.9	1.801	2.769	7.8	19.7
8 9	19 1.27	−26 22.1	1.859	2.764	11.5	20.0
8 19	18 55.72	−26 18.6	1.938	2.759	14.7	20.2

472590 2015 DO_{125} 7 12.3 65°.03 4°.5/14.7 16

6 10	19 50.53	− 7 10.7	1.636	2.493	15.5	21.4
6 20	19 45.29	− 7 51.3	1.575	2.504	12.0	21.2
6 30	19 37.97	− 8 51.1	1.536	2.514	8.2	21.0
7 10	19 29.37	−10 7.6	1.522	2.524	5.0	20.8
7 20	19 20.47	−11 35.9	1.534	2.535	5.1	20.9
7 30	19 12.38	−13 9.8	1.572	2.545	8.3	21.1
8 9	19 6.05	−14 43.3	1.635	2.556	11.9	21.3
8 19	19 2.10	−16 11.4	1.720	2.567	15.2	21.6

302680 2002 TZ_{13} 7 12.3 322°.86 5°.3/10.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 52.16	−32 31.2	1.674	2.565	13.5	19.9
6 20	19 46.95	−33 31.7	1.605	2.555	10.2	19.7
6 30	19 39.15	−34 28.6	1.557	2.545	7.0	19.5
7 10	19 29.63	−35 15.1	1.535	2.535	5.3	19.4
7 20	19 19.58	−35 45.8	1.537	2.526	6.9	19.5
7 30	19 10.40	−35 58.2	1.565	2.517	10.2	19.6
8 9	19 3.30	−35 53.2	1.614	2.508	13.6	19.8
8 19	18 59.09	−35 33.8	1.683	2.500	16.7	20.0

405064 2001 TV_{153} 7 12.4 188°.40 0°.9/12.1 17

6 10	19 58.46	−24 5.6	1.699	2.578	13.9	21.2
6 20	19 51.14	−24 9.5	1.629	2.578	10.1	21.0
6 30	19 41.35	−24 13.9	1.581	2.577	5.8	20.7
7 10	19 30.03	−24 15.4	1.560	2.576	1.4	20.4
7 20	19 18.38	−24 11.6	1.566	2.573	3.9	20.6
7 30	19 7.71	−24 1.7	1.599	2.570	8.4	20.8
8 9	18 59.14	−23 46.4	1.656	2.566	12.5	21.1
8 19	18 53.37	−23 27.3	1.735	2.561	15.9	21.3

24186 Shivanisud 7 12.4 260°.78 3°.0/11.3 18

6 10	19 55.64	−27 11.9	1.666	2.552	13.8	18.7
6 20	19 49.51	−27 55.4	1.582	2.534	10.2	18.5
6 30	19 40.67	−28 39.8	1.521	2.516	6.2	18.2
7 10	19 29.95	−29 19.6	1.485	2.497	3.1	18.0
7 20	19 18.53	−29 49.4	1.476	2.477	5.2	18.0
7 30	19 7.84	−30 6.3	1.492	2.457	9.5	18.2
8 9	18 59.18	−30 10.1	1.532	2.437	13.6	18.4
8 19	18 53.46	−30 2.9	1.592	2.416	17.2	18.6

347827 2002 PM_{24} 7 12.4 271°.68 1°.5/11.9 18

6 10	19 54.65	−26 26.1	2.104	2.981	11.7	21.4
6 20	19 48.23	−26 27.3	2.010	2.958	8.6	21.2
6 30	19 39.69	−26 26.9	1.939	2.934	5.0	20.9
7 10	19 29.73	−26 22.1	1.896	2.910	1.7	20.6
7 20	19 19.29	−26 10.8	1.880	2.886	3.7	20.7
7 30	19 9.46	−25 52.4	1.892	2.861	7.5	20.9
8 9	19 1.23	−25 27.5	1.930	2.835	11.2	21.1
8 19	18 55.31	−24 58.1	1.990	2.810	14.4	21.3

238589 2004 YL_5 7 12.4 226°.31 4°.0/14.3 18

6 10	19 50.33	− 8 17.0	2.201	3.046	12.5	20.7
6 20	19 44.86	− 8 32.8	2.116	3.038	9.7	20.5
6 30	19 37.66	− 9 1.9	2.054	3.028	6.7	20.3
7 10	19 29.33	− 9 43.4	2.018	3.018	4.3	20.1
7 20	19 20.62	−10 35.3	2.010	3.008	4.5	20.1
7 30	19 12.39	−11 34.3	2.030	2.997	7.2	20.2
8 9	19 5.45	−12 36.7	2.076	2.986	10.3	20.4
8 19	19 0.40	−13 39.3	2.145	2.974	13.2	20.6

14220 Alexgibbs 7 12.4 12°.15 2°.4/12.1 18

6 10	19 54.66	−28 56.1	1.331	2.230	15.7	15.7
6 20	19 48.75	−28 34.1	1.275	2.233	11.5	15.5
6 30	19 40.06	−28 6.2	1.240	2.237	6.8	15.2
7 10	19 29.78	−27 29.8	1.228	2.242	2.7	15.0
7 20	19 19.35	−26 44.0	1.241	2.247	4.8	15.1
7 30	19 10.30	−25 50.6	1.278	2.254	9.5	15.4
8 9	19 3.79	−24 53.0	1.338	2.261	13.8	15.7
8 19	19 0.41	−23 54.6	1.418	2.270	17.5	16.0

119630 2001 XJ_5 7 12.4 317°.98 7°.3/ 8.7 18

6 10	19 54.89	−34 39.7	1.547	2.436	14.5	19.0
6 20	19 49.30	−36 31.0	1.486	2.432	11.3	18.8
6 30	19 40.69	−38 18.3	1.448	2.427	8.4	18.6
7 10	19 29.97	−39 51.2	1.435	2.423	7.4	18.5
7 20	19 18.51	−41 1.3	1.446	2.418	9.1	18.6
7 30	19 7.98	−41 44.4	1.482	2.414	12.2	18.8
8 9	18 59.86	−42 1.7	1.538	2.411	15.4	19.0
8 19	18 55.10	−41 57.5	1.613	2.407	18.3	19.2

211387 2002 UG_{21} 7 12.4 133°.80 3°.7/10.9 18

6 10	19 53.42	−31 9.5	2.134	3.012	11.5	20.2
6 20	19 47.20	−31 51.7	2.072	3.018	8.5	20.1
6 30	19 39.00	−32 30.2	2.035	3.023	5.5	19.9
7 10	19 29.58	−33 0.6	2.024	3.028	3.7	19.8
7 20	19 19.92	−33 19.5	2.041	3.033	5.1	19.9
7 30	19 11.06	−33 25.7	2.085	3.038	7.9	20.1
8 9	19 3.90	−33 20.0	2.153	3.043	10.9	20.3
8 19	18 59.03	−33 4.5	2.243	3.047	13.5	20.5

206021 2002 PW_{167} 7 12.4 318°.00 0°.8/12.7 18

6 10	19 48.90	−17 33.1	1.605	2.493	14.1	20.4
6 20	19 44.48	−18 9.3	1.524	2.477	10.4	20.1
6 30	19 37.73	−18 56.1	1.465	2.461	6.1	19.9
7 10	19 29.39	−19 50.1	1.431	2.446	1.5	19.5
7 20	19 20.47	−20 46.9	1.422	2.431	3.7	19.6
7 30	19 12.18	−21 41.9	1.439	2.417	8.4	19.9
8 9	19 5.67	−22 31.6	1.479	2.403	12.7	20.1
8 19	19 1.73	−23 14.0	1.540	2.390	16.5	20.3

85829 1998 XW_{56} 7 12.4 294°.67 0°.6/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 52.25	−19 42.6	1.495	2.385	14.8	19.4
6 20	19 47.15	−19 52.5	1.408	2.362	11.0	19.1
6 30	19 39.38	−20 9.1	1.342	2.339	6.4	18.8
7 10	19 29.73	−20 29.9	1.301	2.317	1.4	18.4
7 20	19 19.34	−20 51.6	1.285	2.294	4.0	18.5
7 30	19 9.63	−21 11.4	1.293	2.271	9.2	18.8
8 9	19 1.91	−21 27.3	1.325	2.249	13.9	19.0
8 19	18 57.10	−21 38.9	1.376	2.226	18.0	19.2

291045 2005 YU_{49} 7 12.4 172°.60 0°.1/12.3 18

6 10	19 49.57	−21 53.2	2.659	3.532	9.7	21.4
6 20	19 44.01	−22 0.8	2.587	3.533	7.0	21.2
6 30	19 37.03	−22 10.2	2.539	3.534	4.0	21.0
7 10	19 29.21	−22 19.7	2.519	3.535	0.8	20.8
7 20	19 21.19	−22 27.8	2.528	3.536	2.5	20.9
7 30	19 13.72	−22 33.4	2.566	3.537	5.6	21.1
8 9	19 7.43	−22 35.9	2.630	3.537	8.5	21.3
8 19	19 2.79	−22 35.5	2.717	3.537	11.0	21.5

207382 2005 QU_{28} 7 12.4 342°.23 3°.2/13.9 18

6 10	19 45.00	−10 30.5	2.520	3.377	10.7	19.6
6 20	19 40.81	−10 32.7	2.441	3.370	8.2	19.4
6 30	19 35.26	−10 44.4	2.385	3.364	5.6	19.3
7 10	19 28.87	−11 5.0	2.355	3.358	3.5	19.1
7 20	19 22.24	−11 33.2	2.353	3.352	3.8	19.1
7 30	19 16.05	−12 7.1	2.378	3.347	6.1	19.3
8 9	19 10.92	−12 44.4	2.429	3.342	8.8	19.4
8 19	19 7.33	−13 22.8	2.503	3.338	11.4	19.6

136706 1995 TT_4 7 12.4 144°.00 1°.0/12.8 18

6 10	19 49.90	−17 35.8	2.639	3.504	10.0	21.8
6 20	19 44.20	−17 43.7	2.571	3.512	7.3	21.6
6 30	19 37.12	−17 56.1	2.529	3.521	4.3	21.4
7 10	19 29.22	−18 11.6	2.515	3.529	1.4	21.2
7 20	19 21.17	−18 28.5	2.529	3.536	2.6	21.3
7 30	19 13.67	−18 45.4	2.572	3.544	5.6	21.5
8 9	19 7.35	−19 1.3	2.642	3.550	8.4	21.7
8 19	19 2.65	−19 15.4	2.735	3.557	10.9	21.9

390729 2003 JU_{12} 7 12.4 72°.24 3°.6/14.3 17

6 10	19 49.44	− 8 59.6	2.107	2.959	12.7	20.3
6 20	19 44.05	− 9 20.9	2.054	2.980	9.7	20.2
6 30	19 37.08	− 9 54.7	2.024	3.001	6.5	20.0
7 10	19 29.22	−10 39.5	2.021	3.023	4.0	19.9
7 20	19 21.25	−11 32.3	2.044	3.044	4.2	19.9
7 30	19 13.97	−12 29.9	2.096	3.065	6.8	20.1
8 9	19 8.09	−13 28.5	2.173	3.086	9.8	20.4
8 19	19 4.09	−14 25.5	2.273	3.107	12.4	20.6

419639 2010 TU_{19} 7 12.4 354°.32 2°.7/11.4 17

6 10	19 48.46	−22 56.3	1.018	1.936	17.8	19.7
6 20	19 45.09	−24 6.8	0.961	1.930	12.9	19.4
6 30	19 38.44	−25 26.6	0.924	1.926	7.5	19.1
7 10	19 29.58	−26 47.2	0.908	1.923	2.8	18.8
7 20	19 20.06	−27 59.2	0.914	1.921	6.0	19.0
7 30	19 11.75	−28 55.7	0.941	1.920	11.5	19.3
8 9	19 6.23	−29 34.1	0.988	1.921	16.6	19.6
8 19	19 4.39	−29 54.9	1.052	1.923	20.9	19.9

319619 2006 SY_{284} 7 12.4 351°.20 5°.7/10.3 17

6 10	19 44.46	−27 45.2	0.900	1.831	18.2	18.7
6 20	19 42.58	−29 9.1	0.845	1.819	13.5	18.4
6 30	19 37.19	−30 36.9	0.808	1.809	8.6	18.1
7 10	19 29.35	−31 57.8	0.791	1.800	5.7	17.9
7 20	19 20.76	−33 1.2	0.793	1.795	8.4	18.0
7 30	19 13.46	−33 40.3	0.816	1.791	13.4	18.3
8 9	19 9.22	−33 54.3	0.855	1.789	18.4	18.6
8 19	19 9.00	−33 46.2	0.910	1.790	22.6	18.8

56846 2000 QF_{53} 7 12.4 189°.52 3°.8/14.3 18

6 10	19 48.58	− 8 25.3	2.342	3.188	11.8	20.1
6 20	19 43.46	− 8 35.0	2.266	3.187	9.1	19.9
6 30	19 36.81	− 8 56.6	2.213	3.187	6.3	19.7
7 10	19 29.22	− 9 29.3	2.187	3.186	4.1	19.6
7 20	19 21.36	−10 11.4	2.188	3.185	4.3	19.6
7 30	19 14.02	−11 0.2	2.217	3.183	6.7	19.7
8 9	19 7.88	−11 52.5	2.272	3.182	9.5	19.9
8 19	19 3.46	−12 45.6	2.351	3.180	12.2	20.1

18922 2000 PU_{12} 7 12.4 199°.18 1°.4/12.7 18

6 10	19 54.59	−18 56.2	2.065	2.934	12.2	17.3
6 20	19 47.96	−18 34.7	1.988	2.932	9.0	17.1
6 30	19 39.42	−18 16.6	1.936	2.929	5.3	16.9
7 10	19 29.73	−18 0.7	1.911	2.925	1.8	16.7
7 20	19 19.77	−17 46.4	1.914	2.921	3.3	16.8
7 30	19 10.54	−17 33.3	1.945	2.917	7.1	17.0
8 9	19 2.91	−17 21.2	2.002	2.912	10.6	17.2
8 19	18 57.45	−17 10.1	2.081	2.907	13.7	17.4

168244 2006 KW_{98} 7 12.4 18°.75 6°.8/ 8.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 51.42	−30 47.4	1.334	2.237	15.4	18.3
6 20	19 46.87	−33 5.5	1.288	2.244	11.6	18.1
6 30	19 39.31	−35 22.1	1.265	2.253	8.1	17.9
7 10	19 29.76	−37 25.4	1.266	2.262	6.9	17.9
7 20	19 19.61	−39 5.1	1.291	2.272	8.9	18.0
7 30	19 10.57	−40 15.7	1.341	2.284	12.3	18.3
8 9	19 4.04	−40 57.7	1.411	2.296	15.8	18.5
8 19	19 0.90	−41 15.1	1.498	2.309	18.7	18.8

377145 2003 QM_{99} 7 12.4 270°.78 9°.4/16.2 18

6 10	19 52.74	+ 3 18.2	1.806	2.608	16.5	21.5
6 20	19 47.18	+ 3 28.7	1.703	2.578	14.2	21.2
6 30	19 39.32	+ 3 14.8	1.619	2.547	11.7	21.0
7 10	19 29.78	+ 2 33.2	1.557	2.516	9.8	20.8
7 20	19 19.41	+ 1 23.3	1.520	2.483	9.6	20.7
7 30	19 9.37	− 0 11.8	1.509	2.450	11.4	20.7
8 9	19 0.77	− 2 5.7	1.522	2.416	14.3	20.8
8 19	18 54.51	− 4 10.2	1.557	2.382	17.5	21.0

232778 2004 PH_{80} 7 12.4 278°.67 11°.5/ 9.8 18

6 10	20 12.69	−52 32.5	1.882	2.697	15.4	20.6
6 20	20 2.47	−53 11.9	1.800	2.673	13.6	20.4
6 30	19 48.25	−53 28.9	1.738	2.648	12.1	20.2
7 10	19 31.48	−53 13.6	1.700	2.623	11.5	20.2
7 20	19 14.28	−52 20.4	1.685	2.598	12.2	20.1
7 30	18 58.94	−50 50.5	1.694	2.572	14.0	20.2
8 9	18 47.19	−48 51.9	1.725	2.546	16.3	20.3
8 19	18 39.82	−46 35.0	1.775	2.520	18.6	20.4

508294 2015 KW_{24} 7 12.4 139°.45 1°.0/12.9 17

6 10	19 51.88	−16 33.0	2.134	3.003	11.9	21.9
6 20	19 45.96	−17 11.8	2.069	3.012	8.7	21.7
6 30	19 38.27	−17 58.3	2.028	3.021	5.1	21.5
7 10	19 29.51	−18 49.4	2.015	3.029	1.5	21.2
7 20	19 20.49	−19 41.7	2.029	3.037	3.0	21.4
7 30	19 12.13	−20 32.1	2.072	3.045	6.6	21.6
8 9	19 5.23	−21 18.0	2.141	3.052	10.0	21.8
8 19	19 0.34	−21 58.1	2.233	3.059	12.8	22.0

366822 2005 GT_{71} 7 12.4 339°.68 3°.3/13.4 17

6 10	19 50.37	−14 0.5	1.255	2.147	17.0	20.5
6 20	19 45.86	−14 0.8	1.189	2.141	12.8	20.2
6 30	19 38.63	−14 15.2	1.143	2.136	8.1	19.9
7 10	19 29.63	−14 42.1	1.119	2.131	3.8	19.6
7 20	19 20.11	−15 18.5	1.119	2.127	5.0	19.7
7 30	19 11.55	−16 0.2	1.143	2.123	9.7	20.0
8 9	19 5.24	−16 43.2	1.188	2.120	14.4	20.2
8 19	19 1.96	−17 24.0	1.252	2.117	18.5	20.5

107595 2001 DQ_{102} 7 12.4 47°.31 4°.7/10.8 17

6 10	19 55.00	−29 26.5	1.353	2.251	15.6	19.3
6 20	19 49.25	−30 30.3	1.300	2.256	11.5	19.0
6 30	19 40.55	−31 32.0	1.268	2.262	7.3	18.8
7 10	19 30.00	−32 24.0	1.260	2.267	4.7	18.7
7 20	19 19.04	−33 0.0	1.276	2.273	6.7	18.8
7 30	19 9.32	−33 17.3	1.316	2.279	10.7	19.1
8 9	19 2.15	−33 17.0	1.378	2.285	14.7	19.3
8 19	18 58.29	−33 2.9	1.459	2.291	18.1	19.6

6458 Nouda 7 12.4 316°.90 11°.2/15.6 18 R

6 10	19 48.24	+ 2 30.4	1.523	2.349	18.0	16.6
6 20	19 43.97	+ 3 32.1	1.447	2.335	15.5	16.4
6 30	19 37.45	+ 4 10.5	1.390	2.320	13.1	16.2
7 10	19 29.41	+ 4 21.0	1.353	2.307	11.4	16.1
7 20	19 20.83	+ 4 1.6	1.338	2.293	11.3	16.0
7 30	19 12.89	+ 3 13.9	1.345	2.280	12.9	16.1
8 9	19 6.67	+ 2 3.2	1.373	2.268	15.5	16.2
8 19	19 2.95	+ 0 37.1	1.419	2.256	18.3	16.4

96738 1999 NQ_{55} 7 12.4 343°.05 10°.9/14.9 18

6 10	19 46.01	− 1 4.5	1.280	2.138	18.9	18.1
6 20	19 42.61	+ 0 8.0	1.211	2.124	16.0	17.9
6 30	19 36.76	+ 0 57.6	1.161	2.112	13.2	17.7
7 10	19 29.28	+ 1 19.3	1.130	2.101	11.2	17.6
7 20	19 21.27	+ 1 10.7	1.121	2.092	11.2	17.5
7 30	19 14.04	+ 0 33.3	1.132	2.084	13.2	17.6
8 9	19 8.79	− 0 27.1	1.163	2.077	16.3	17.8
8 19	19 6.29	− 1 42.7	1.212	2.071	19.4	18.0

282901 2007 GV_{50} 7 12.4 10°.14 27°.0/19.0 18

6 10	19 38.70	+31 35.6	1.043	1.739	31.9	18.3
6 20	19 37.67	+34 12.0	1.026	1.745	31.1	18.3
6 30	19 34.00	+35 50.6	1.015	1.754	30.3	18.3
7 10	19 28.72	+36 24.4	1.011	1.767	29.4	18.2
7 20	19 23.13	+35 50.4	1.013	1.783	28.6	18.2
7 30	19 18.66	+34 11.2	1.024	1.801	27.8	18.3
8 9	19 16.50	+31 35.7	1.045	1.822	27.3	18.3
8 19	19 17.30	+28 16.8	1.077	1.846	27.0	18.4

255340 2005 WO_{63} 7 12.4 48°.45 2°.2/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 50.46	−26 39.9	2.105	2.989	11.4	20.4
6 20	19 45.06	−27 18.2	2.043	2.995	8.3	20.2
6 30	19 37.82	−27 56.3	2.006	3.001	4.9	20.0
7 10	19 29.46	−28 30.4	1.995	3.007	2.3	19.9
7 20	19 20.87	−28 57.4	2.012	3.014	4.0	20.0
7 30	19 13.00	−29 15.3	2.055	3.020	7.3	20.2
8 9	19 6.69	−29 24.1	2.124	3.027	10.4	20.4
8 19	19 2.50	−29 24.5	2.214	3.034	13.1	20.6

280576 2004 TN_{133} 7 12.4 274°.86 3°.6/13.5 18

6 10	19 52.18	−11 56.9	1.987	2.847	13.1	20.9
6 20	19 46.57	−11 46.4	1.886	2.818	10.1	20.7
6 30	19 38.88	−11 45.8	1.807	2.789	6.7	20.4
7 10	19 29.72	−11 55.2	1.754	2.759	3.9	20.2
7 20	19 19.93	−12 13.4	1.728	2.729	4.6	20.2
7 30	19 10.56	−12 38.7	1.729	2.698	8.0	20.3
8 9	19 2.58	−13 8.8	1.755	2.667	11.8	20.5
8 19	18 56.76	−13 41.3	1.803	2.635	15.2	20.6

115279 2003 SL_{188} 7 12.4 158°.73 2°.4/11.7 18

6 10	19 56.51	−26 13.2	1.592	2.479	14.3	20.0
6 20	19 49.93	−26 44.3	1.530	2.483	10.4	19.8
6 30	19 40.79	−27 15.4	1.490	2.486	6.1	19.5
7 10	19 30.07	−27 41.5	1.476	2.489	2.5	19.3
7 20	19 19.00	−27 58.7	1.488	2.492	4.7	19.4
7 30	19 8.99	−28 5.1	1.525	2.494	8.9	19.7
8 9	19 1.16	−28 1.2	1.586	2.496	12.9	19.9
8 19	18 56.24	−27 49.2	1.668	2.497	16.3	20.2

93585 2000 UE_{52} 7 12.4 74°.23 5°.3/ 9.9 18

6 10	19 53.04	−35 37.1	2.172	3.047	11.5	18.9
6 20	19 47.08	−36 35.7	2.113	3.051	8.8	18.7
6 30	19 39.04	−37 27.9	2.078	3.055	6.4	18.6
7 10	19 29.72	−38 8.4	2.069	3.059	5.3	18.5
7 20	19 20.10	−38 33.5	2.087	3.063	6.4	18.6
7 30	19 11.26	−38 41.9	2.130	3.066	8.8	18.8
8 9	19 4.17	−38 34.8	2.198	3.070	11.4	18.9
8 19	18 59.44	−38 15.1	2.286	3.074	13.8	19.1

148525 2001 QG 7 12.4 326°.96 0°.3/12.3 18

6 10	19 49.73	−21 37.3	1.229	2.135	16.3	19.7
6 20	19 45.71	−21 47.4	1.153	2.116	12.0	19.4
6 30	19 38.73	−22 3.4	1.098	2.098	6.9	19.0
7 10	19 29.72	−22 21.7	1.065	2.081	1.4	18.6
7 20	19 19.99	−22 38.6	1.055	2.064	4.5	18.8
7 30	19 11.17	−22 51.1	1.068	2.049	10.1	19.0
8 9	19 4.70	−22 57.7	1.101	2.035	15.2	19.3
8 19	19 1.52	−22 58.6	1.153	2.022	19.6	19.5

325922 2010 UT_{99} 7 12.4 340°.75 6°.9/10.5 18

6 10	19 53.88	−33 46.8	1.182	2.087	16.9	19.9
6 20	19 49.02	−34 44.5	1.122	2.079	12.9	19.6
6 30	19 40.71	−35 35.4	1.083	2.072	9.0	19.4
7 10	19 30.10	−36 10.4	1.065	2.065	6.9	19.2
7 20	19 18.90	−36 22.8	1.069	2.060	8.7	19.3
7 30	19 9.04	−36 10.5	1.095	2.055	12.7	19.5
8 9	19 2.15	−35 37.0	1.141	2.051	16.8	19.7
8 19	18 59.07	−34 48.1	1.204	2.048	20.5	20.0

383270 2006 DB_{82} 7 12.4 137°.18 1°.4/12.9 17

6 10	19 52.26	−16 51.5	2.006	2.877	12.5	21.5
6 20	19 46.31	−17 4.4	1.942	2.885	9.1	21.4
6 30	19 38.51	−17 24.2	1.901	2.893	5.4	21.1
7 10	19 29.62	−17 48.7	1.886	2.900	1.8	20.9
7 20	19 20.49	−18 15.5	1.900	2.907	3.2	21.0
7 30	19 12.10	−18 42.3	1.940	2.914	6.9	21.3
8 9	19 5.27	−19 7.4	2.006	2.920	10.4	21.5
8 19	19 0.57	−19 29.7	2.095	2.926	13.4	21.7

514251 2015 PK_{94} 7 12.4 294°.90 2°.5/13.6 18

6 10	19 48.53	−12 36.8	2.082	2.947	12.3	21.4
6 20	19 43.70	−13 3.0	2.001	2.939	9.3	21.2
6 30	19 37.10	−13 40.6	1.944	2.931	5.9	20.9
7 10	19 29.36	−14 27.5	1.913	2.923	2.9	20.7
7 20	19 21.25	−15 20.9	1.910	2.915	3.6	20.8
7 30	19 13.66	−16 17.5	1.933	2.907	6.9	21.0
8 9	19 7.41	−17 13.8	1.982	2.900	10.3	21.2
8 19	19 3.11	−18 7.2	2.054	2.892	13.4	21.3

396116 2013 CZ_{174} 7 12.4 61°.95 4°.2/14.4 18

6 10	19 47.94	− 7 57.8	2.226	3.074	12.2	21.1
6 20	19 43.06	− 8 0.5	2.155	3.077	9.5	20.9
6 30	19 36.64	− 8 15.6	2.108	3.080	6.7	20.8
7 10	19 29.26	− 8 42.7	2.086	3.082	4.5	20.6
7 20	19 21.66	− 9 20.0	2.090	3.085	4.7	20.7
7 30	19 14.60	−10 5.0	2.122	3.088	7.0	20.8
8 9	19 8.80	−10 54.5	2.180	3.091	9.8	21.0
8 19	19 4.78	−11 45.5	2.260	3.094	12.5	21.2

241498 2009 CV_{22} 7 12.4 318°.99 3°.3/13.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 49.10	−12 4.7	1.775	2.646	13.8	20.6
6 20	19 44.33	−12 12.6	1.699	2.639	10.5	20.3
6 30	19 37.55	−12 32.9	1.646	2.632	6.8	20.1
7 10	19 29.46	−13 4.4	1.618	2.626	3.7	19.9
7 20	19 20.99	−13 44.6	1.615	2.620	4.3	19.9
7 30	19 13.16	−14 30.3	1.639	2.614	7.9	20.1
8 9	19 6.92	−15 18.0	1.687	2.608	11.6	20.3
8 19	19 2.92	−16 4.6	1.756	2.603	14.9	20.5

332311 2006 VZ_{153} 7 12.4 214°.74 0°.1/12.4 17

6 10	19 54.12	−20 16.8	1.798	2.677	13.3	21.6
6 20	19 48.02	−20 41.2	1.723	2.672	9.7	21.3
6 30	19 39.68	−21 11.1	1.670	2.666	5.6	21.1
7 10	19 29.89	−21 43.2	1.644	2.660	1.1	20.8
7 20	19 19.65	−22 14.1	1.645	2.653	3.5	20.9
7 30	19 10.15	−22 41.0	1.673	2.646	7.9	21.2
8 9	19 2.43	−23 2.4	1.725	2.638	11.8	21.4
8 19	18 57.20	−23 18.2	1.799	2.630	15.2	21.6

103086 1999 XZ_{161} 7 12.4 259°.36 6°.5/ 9.5 18

6 10	19 56.47	−37 53.1	2.042	2.912	12.3	19.3
6 20	19 49.97	−38 56.1	1.964	2.896	9.8	19.1
6 30	19 40.93	−39 51.8	1.909	2.879	7.4	18.9
7 10	19 30.15	−40 33.5	1.880	2.863	6.5	18.8
7 20	19 18.79	−40 56.3	1.878	2.846	7.7	18.9
7 30	19 8.17	−40 58.2	1.901	2.829	10.2	19.0
8 9	18 59.51	−40 40.9	1.947	2.811	13.0	19.2
8 19	18 53.63	−40 8.3	2.013	2.793	15.6	19.3

212586 2006 SD_{161} 7 12.4 310°.46 0°.6/12.2 18

6 10	19 50.21	−22 0.0	1.886	2.772	12.5	20.4
6 20	19 45.13	−22 26.5	1.810	2.763	9.1	20.2
6 30	19 38.01	−22 57.0	1.758	2.755	5.2	20.0
7 10	19 29.56	−23 28.3	1.731	2.747	1.1	19.7
7 20	19 20.72	−23 57.3	1.731	2.739	3.4	19.8
7 30	19 12.54	−24 21.2	1.757	2.731	7.5	20.0
8 9	19 5.98	−24 38.9	1.808	2.724	11.3	20.3
8 19	19 1.71	−24 50.3	1.881	2.716	14.5	20.5

461651 2005 GM_{11} 7 12.4 63°.07 5°.0/10.7 17

6 10	19 56.26	−29 58.5	1.312	2.210	16.0	20.5
6 20	19 50.14	−31 8.3	1.268	2.224	11.8	20.3
6 30	19 41.03	−32 14.6	1.246	2.239	7.6	20.1
7 10	19 30.15	−33 9.1	1.248	2.254	5.1	20.0
7 20	19 19.01	−33 45.6	1.274	2.269	7.0	20.1
7 30	19 9.27	−34 2.0	1.324	2.284	10.9	20.4
8 9	19 2.22	−34 0.3	1.395	2.299	14.7	20.7
8 19	18 58.52	−33 44.3	1.485	2.315	18.0	20.9

376941 2002 CR_{265} 7 12.4 95°.07 2°.4/11.7 17

6 10	19 56.41	−27 39.5	1.792	2.674	13.2	21.1
6 20	19 49.45	−27 58.2	1.742	2.692	9.6	20.9
6 30	19 40.32	−28 14.5	1.715	2.710	5.7	20.7
7 10	19 29.99	−28 24.5	1.715	2.727	2.5	20.5
7 20	19 19.58	−28 25.8	1.741	2.744	4.3	20.7
7 30	19 10.25	−28 17.7	1.794	2.761	8.0	20.9
8 9	19 2.96	−28 1.4	1.872	2.777	11.5	21.2
8 19	18 58.24	−27 39.2	1.971	2.793	14.4	21.4

340487 2006 HV_{81} 7 12.4 249°.72 3°.5/10.9 18

6 10	19 53.24	−29 6.1	1.876	2.761	12.6	20.5
6 20	19 47.43	−29 55.2	1.807	2.758	9.3	20.3
6 30	19 39.36	−30 43.0	1.762	2.754	5.8	20.1
7 10	19 29.84	−31 24.2	1.743	2.750	3.5	19.9
7 20	19 19.92	−31 54.5	1.750	2.747	5.2	20.0
7 30	19 10.78	−32 11.5	1.784	2.743	8.6	20.2
8 9	19 3.47	−32 15.6	1.841	2.740	12.0	20.4
8 19	18 58.70	−32 8.6	1.920	2.736	15.0	20.6

485177 2010 SK_{23} 7 12.4 280°.77 6°.5/ 9.9 17

6 10	19 56.91	−41 6.0	2.313	3.171	11.5	21.2
6 20	19 50.06	−41 43.0	2.228	3.148	9.3	21.0
6 30	19 40.87	−42 9.7	2.166	3.126	7.4	20.9
7 10	19 30.14	−42 21.0	2.129	3.103	6.5	20.8
7 20	19 18.96	−42 13.2	2.120	3.080	7.4	20.8
7 30	19 8.55	−41 45.7	2.136	3.057	9.6	20.9
8 9	18 59.99	−41 0.9	2.175	3.034	12.1	21.0
8 19	18 54.00	−40 2.9	2.236	3.010	14.4	21.2

174225 2002 RO_{33} 7 12.4 274°.95 1°.8/12.9 18

6 10	19 50.86	−16 44.3	1.931	2.806	12.7	20.0
6 20	19 45.50	−16 41.9	1.852	2.797	9.4	19.8
6 30	19 38.18	−16 46.3	1.797	2.789	5.7	19.6
7 10	19 29.61	−16 56.1	1.767	2.780	2.2	19.3
7 20	19 20.68	−17 9.6	1.764	2.771	3.5	19.4
7 30	19 12.38	−17 25.0	1.788	2.762	7.3	19.6
8 9	19 5.63	−17 40.7	1.836	2.754	11.0	19.8
8 19	19 1.06	−17 55.5	1.907	2.745	14.2	20.0

358995 2008 SW_{287} 7 12.4 15°.69 2°.1/12.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 52.28	−18 29.9	0.974	1.885	19.0	20.7
6 20	19 47.67	−18 11.0	0.924	1.887	14.0	20.4
6 30	19 39.81	−18 1.2	0.892	1.891	8.3	20.1
7 10	19 29.95	−17 58.9	0.881	1.895	2.8	19.8
7 20	19 19.72	−18 1.5	0.891	1.901	5.0	20.0
7 30	19 10.96	−18 6.9	0.923	1.907	10.8	20.3
8 9	19 5.06	−18 13.2	0.974	1.914	16.0	20.6
8 19	19 2.76	−18 18.9	1.043	1.922	20.4	20.9

63525 2001 PU_{2} 7 12.4 275°.17 0°.6/12.6 18

6 10	19 51.26	−20 5.7	2.038	2.915	12.0	19.3
6 20	19 45.75	−20 5.8	1.955	2.903	8.8	19.1
6 30	19 38.32	−20 9.7	1.896	2.891	5.1	18.8
7 10	19 29.64	−20 15.6	1.863	2.878	1.2	18.5
7 20	19 20.59	−20 21.7	1.858	2.866	3.1	18.6
7 30	19 12.15	−20 26.6	1.879	2.854	7.1	18.9
8 9	19 5.22	−20 29.5	1.926	2.841	10.7	19.1
8 19	19 0.42	−20 30.3	1.995	2.828	13.9	19.3

509062 2005 TX_{96} 7 12.4 277°.47 5°.4/10.1 18

6 10	19 53.55	−36 40.8	2.214	3.087	11.4	21.5
6 20	19 47.53	−37 28.3	2.143	3.078	8.9	21.3
6 30	19 39.37	−38 8.8	2.095	3.069	6.5	21.1
7 10	19 29.85	−38 37.3	2.072	3.061	5.4	21.1
7 20	19 19.96	−38 50.3	2.077	3.052	6.5	21.1
7 30	19 10.80	−38 46.4	2.107	3.043	8.9	21.2
8 9	19 3.37	−38 27.3	2.162	3.035	11.6	21.4
8 19	18 58.33	−37 55.8	2.237	3.026	14.0	21.6

431943 2008 UG_{8} 7 12.4 72°.63 3°.6/11.3 17

6 10	19 54.60	−29 43.1	1.715	2.602	13.4	20.9
6 20	19 48.48	−30 16.7	1.653	2.604	9.9	20.7
6 30	19 39.97	−30 47.2	1.614	2.606	6.2	20.5
7 10	19 29.97	−31 9.6	1.599	2.608	3.6	20.3
7 20	19 19.66	−31 20.2	1.611	2.609	5.3	20.5
7 30	19 10.34	−31 17.6	1.649	2.611	8.9	20.7
8 9	19 3.07	−31 3.2	1.710	2.613	12.5	20.9
8 19	18 58.54	−30 39.6	1.792	2.615	15.6	21.1

371472 2006 TP_{17} 7 12.4 323°.63 2°.0/12.9 17

6 10	19 49.47	−17 0.9	1.196	2.098	16.9	20.7
6 20	19 45.54	−17 4.5	1.121	2.080	12.7	20.4
6 30	19 38.68	−17 19.5	1.066	2.063	7.7	20.1
7 10	19 29.78	−17 43.9	1.033	2.047	2.6	19.7
7 20	19 20.15	−18 14.3	1.022	2.031	4.6	19.8
7 30	19 11.38	−18 47.0	1.034	2.017	10.1	20.0
8 9	19 4.92	−19 18.4	1.067	2.003	15.3	20.3
8 19	19 1.73	−19 46.2	1.118	1.990	19.8	20.5

107808 2001 FH_{59} 7 12.4 191°.38 1°.1/11.9 18

6 10	19 55.10	−22 36.5	1.723	2.605	13.6	20.4
6 20	19 48.83	−23 14.5	1.653	2.605	9.9	20.2
6 30	19 40.20	−23 56.7	1.607	2.603	5.6	20.0
7 10	19 30.04	−24 38.4	1.586	2.602	1.5	19.7
7 20	19 19.45	−25 15.5	1.593	2.599	3.9	19.8
7 30	19 9.69	−25 44.9	1.626	2.597	8.3	20.1
8 9	19 1.86	−26 5.4	1.683	2.594	12.2	20.3
8 19	18 56.66	−26 17.7	1.761	2.590	15.6	20.6

183837 2004 BU_{108} 7 12.4 149°.25 5°.0/10.9 17

6 10	19 59.73	−34 26.9	1.934	2.805	12.8	21.3
6 20	19 52.00	−35 7.5	1.876	2.815	9.7	21.1
6 30	19 41.88	−35 40.6	1.843	2.824	6.7	21.0
7 10	19 30.34	−36 0.7	1.835	2.832	5.0	20.9
7 20	19 18.60	−36 4.7	1.855	2.840	6.2	21.0
7 30	19 7.94	−35 51.8	1.901	2.847	9.1	21.2
8 9	18 59.42	−35 24.8	1.972	2.853	12.1	21.4
8 19	18 53.66	−34 47.4	2.063	2.859	14.8	21.6

303908 2005 TL_{167} 7 12.4 110°.45 5°.1/14.7 16

6 10	19 48.81	− 5 7.8	2.471	3.301	11.8	21.4
6 20	19 43.49	− 4 44.9	2.407	3.312	9.4	21.2
6 30	19 36.81	− 4 34.1	2.367	3.323	7.0	21.1
7 10	19 29.34	− 4 35.7	2.352	3.334	5.4	21.0
7 20	19 21.72	− 4 49.3	2.364	3.345	5.4	21.0
7 30	19 14.66	− 5 13.3	2.404	3.356	7.1	21.2
8 9	19 8.76	− 5 45.1	2.469	3.366	9.4	21.3
8 19	19 4.48	− 6 21.9	2.557	3.376	11.6	21.5

257764 2000 BD_{52} 7 12.4 214°.40 0°.9/12.8 18

6 10	19 48.48	−17 48.4	2.713	3.580	9.7	21.3
6 20	19 43.31	−18 2.0	2.633	3.575	7.1	21.1
6 30	19 36.76	−18 20.4	2.579	3.571	4.2	20.9
7 10	19 29.35	−18 41.9	2.552	3.566	1.3	20.7
7 20	19 21.70	−19 4.8	2.554	3.561	2.5	20.8
7 30	19 14.50	−19 27.5	2.584	3.556	5.5	21.0
8 9	19 8.38	−19 48.7	2.641	3.551	8.4	21.1
8 19	19 3.82	−20 7.6	2.722	3.545	10.9	21.3

308178 2005 CK_{26} 7 12.4 205°.47 2°.6/11.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 54.18	−28 50.4	2.503	3.374	10.3	21.9
6 20	19 47.65	−29 26.5	2.425	3.368	7.6	21.7
6 30	19 39.33	−30 0.9	2.371	3.362	4.7	21.5
7 10	19 29.86	−30 30.1	2.346	3.354	2.6	21.4
7 20	19 20.06	−30 51.0	2.349	3.346	4.0	21.4
7 30	19 10.84	−31 2.2	2.381	3.338	6.9	21.6
8 9	19 3.01	−31 3.7	2.439	3.328	9.8	21.8
8 19	18 57.18	−30 57.0	2.519	3.319	12.3	21.9

512765 2016 UT_{54} 7 12.4 248°.58 1°.2/11.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 50.54	−23 53.1	2.335	3.213	10.7	21.6
6 20	19 45.10	−24 27.9	2.254	3.204	7.7	21.3
6 30	19 37.91	−25 5.0	2.198	3.194	4.5	21.1
7 10	19 29.59	−25 41.1	2.170	3.184	1.4	20.9
7 20	19 20.91	−26 13.3	2.169	3.175	3.2	21.0
7 30	19 12.76	−26 39.2	2.197	3.164	6.7	21.2
8 9	19 5.94	−26 58.0	2.250	3.154	9.9	21.4
8 19	19 1.05	−27 9.8	2.325	3.144	12.6	21.6

80526 2000 AC_{64} 7 12.4 179°.35 2°.0/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 56.59	−26 32.3	1.719	2.603	13.6	19.6
6 20	19 49.86	−26 45.0	1.652	2.603	9.9	19.4
6 30	19 40.74	−26 56.5	1.609	2.604	5.8	19.2
7 10	19 30.15	−27 2.9	1.591	2.604	2.2	18.9
7 20	19 19.27	−27 1.4	1.599	2.604	4.2	19.1
7 30	19 9.36	−26 51.3	1.634	2.604	8.4	19.3
8 9	19 1.50	−26 33.4	1.694	2.603	12.3	19.6
8 19	18 56.37	−26 9.9	1.774	2.602	15.6	19.8

249589 1996 TM_{19} 7 12.4 124°.56 2°.2/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 56.16	−25 28.3	1.523	2.412	14.7	20.6
6 20	19 49.76	−26 1.5	1.465	2.419	10.7	20.4
6 30	19 40.76	−26 35.5	1.429	2.425	6.2	20.2
7 10	19 30.17	−27 5.3	1.417	2.431	2.3	19.9
7 20	19 19.27	−27 26.7	1.432	2.437	4.6	20.1
7 30	19 9.46	−27 37.5	1.472	2.443	9.0	20.4
8 9	19 1.91	−27 38.0	1.536	2.448	13.1	20.6
8 19	18 57.30	−27 30.2	1.619	2.453	16.6	20.9

351544 2005 TD_{13} 7 12.4 171°.39 1°.2/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 50.79	−25 3.8	2.616	3.490	9.8	21.6
6 20	19 45.03	−25 23.7	2.545	3.492	7.1	21.5
6 30	19 37.75	−25 43.8	2.499	3.494	4.1	21.3
7 10	19 29.57	−26 1.7	2.481	3.495	1.4	21.1
7 20	19 21.17	−26 15.3	2.492	3.496	2.9	21.2
7 30	19 13.34	−26 23.5	2.531	3.497	6.0	21.4
8 9	19 6.76	−26 25.9	2.596	3.498	8.8	21.6
8 19	19 1.93	−26 23.2	2.685	3.498	11.3	21.8

274342 2008 RT_{34} 7 12.4 16°.38 0°.6/12.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 51.37	−19 58.9	1.404	2.299	15.3	20.5
6 20	19 46.34	−20 3.2	1.345	2.302	11.2	20.2
6 30	19 38.83	−20 13.4	1.308	2.306	6.4	20.0
7 10	19 29.81	−20 26.9	1.294	2.310	1.5	19.7
7 20	19 20.48	−20 40.9	1.305	2.314	3.9	19.9
7 30	19 12.18	−20 53.0	1.340	2.320	8.7	20.2
8 9	19 6.02	−21 1.9	1.398	2.325	13.1	20.4
8 19	19 2.68	−21 7.4	1.476	2.332	16.8	20.7

287057 2002 RG 7 12.4 350°.44 13°.3/14.9 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 43.14	+ 0 49.4	1.148	2.010	20.3	19.8
6 20	19 40.74	+ 2 32.5	1.085	1.995	17.7	19.6
6 30	19 35.83	+ 3 50.7	1.039	1.982	15.2	19.4
7 10	19 29.25	+ 4 36.5	1.011	1.972	13.5	19.3
7 20	19 22.13	+ 4 45.6	1.002	1.963	13.6	19.3
7 30	19 15.85	+ 4 18.5	1.012	1.956	15.2	19.3
8 9	19 11.63	+ 3 21.2	1.040	1.952	17.9	19.5
8 19	19 10.27	+ 2 2.6	1.085	1.950	20.8	19.7

284568 2007 TH_{54} 7 12.4 341°.23 12°.7/ 6.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 53.75	−45 59.0	1.345	2.223	16.9	18.9
6 20	19 49.42	−47 48.6	1.288	2.209	14.6	18.7
6 30	19 41.25	−49 21.6	1.250	2.195	13.0	18.6
7 10	19 30.36	−50 25.9	1.234	2.183	12.8	18.5
7 20	19 18.60	−50 53.3	1.237	2.171	14.0	18.5
7 30	19 8.21	−50 41.5	1.261	2.161	16.3	18.7
8 9	19 1.08	−49 55.6	1.302	2.153	19.0	18.8
8 19	18 58.23	−48 43.7	1.359	2.145	21.5	19.0

383934 2008 SJ_{203} 7 12.4 156°.45 3°.8/14.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 51.08	− 8 56.7	2.473	3.313	11.4	22.5
6 20	19 45.18	− 8 51.8	2.403	3.322	8.8	22.3
6 30	19 37.82	− 8 57.0	2.357	3.329	6.1	22.2
7 10	19 29.59	− 9 12.1	2.338	3.336	4.0	22.0
7 20	19 21.17	− 9 35.6	2.348	3.342	4.3	22.1
7 30	19 13.31	−10 5.8	2.385	3.348	6.5	22.2
8 9	19 6.65	−10 40.2	2.449	3.353	9.2	22.4
8 19	19 1.69	−11 16.7	2.537	3.357	11.6	22.6

250737 2005 SK_{91} 7 12.4 309°.73 4°.9/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 52.50	−33 44.7	1.976	2.858	12.2	20.3
6 20	19 46.96	−34 28.4	1.901	2.845	9.2	20.1
6 30	19 39.16	−35 7.1	1.850	2.834	6.4	19.9
7 10	19 29.89	−35 35.4	1.824	2.822	4.9	19.8
7 20	19 20.18	−35 49.6	1.824	2.810	6.2	19.8
7 30	19 11.23	−35 48.0	1.850	2.799	9.1	20.0
8 9	19 4.09	−35 31.7	1.899	2.788	12.2	20.2
8 19	18 59.46	−35 3.5	1.969	2.777	15.0	20.3

290913 2005 WR_{109} 7 12.4 148°.03 1°.4/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 50.26	−24 58.0	2.546	3.422	10.0	21.2
6 20	19 44.70	−25 29.2	2.479	3.427	7.2	21.1
6 30	19 37.59	−26 1.2	2.436	3.431	4.2	20.9
7 10	19 29.55	−26 31.1	2.421	3.435	1.5	20.7
7 20	19 21.30	−26 56.3	2.434	3.439	3.1	20.8
7 30	19 13.60	−27 15.3	2.476	3.442	6.1	21.0
8 9	19 7.18	−27 27.5	2.544	3.446	9.0	21.2
8 19	19 2.53	−27 33.3	2.635	3.449	11.4	21.4

171586 1999 VR_{164} 7 12.4 143°.98 1°.7/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 55.36	−17 4.6	1.834	2.705	13.5	20.6
6 20	19 48.68	−17 2.3	1.772	2.715	9.9	20.4
6 30	19 39.96	−17 6.6	1.732	2.724	5.9	20.1
7 10	19 30.03	−17 15.6	1.719	2.732	2.1	19.9
7 20	19 19.88	−17 27.4	1.733	2.740	3.5	20.0
7 30	19 10.60	−17 40.3	1.775	2.748	7.5	20.3
8 9	19 3.11	−17 52.9	1.841	2.755	11.2	20.5
8 19	18 57.99	−18 4.4	1.930	2.761	14.4	20.7

178979 2001 QT_{257} 7 12.4 260°.92 17°.3/21.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 52.25	+15 40.6	1.292	2.052	23.8	20.0
6 20	19 47.38	+16 25.8	1.220	2.042	21.9	19.8
6 30	19 39.70	+16 29.8	1.162	2.031	19.8	19.7
7 10	19 30.05	+15 44.7	1.119	2.019	18.1	19.5
7 20	19 19.65	+14 7.0	1.095	2.008	17.3	19.4
7 30	19 9.98	+11 40.4	1.090	1.996	17.9	19.4
8 9	19 2.45	+ 8 36.5	1.105	1.984	19.7	19.5
8 19	18 58.01	+ 5 10.8	1.139	1.972	22.1	19.6

394730 2008 ER_{142} 7 12.4 242°.69 3°.7/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 48.61	− 9 19.6	2.308	3.158	11.8	21.0
6 20	19 43.61	− 9 25.3	2.227	3.152	9.1	20.8
6 30	19 37.04	− 9 42.4	2.170	3.146	6.3	20.7
7 10	19 29.47	−10 10.3	2.139	3.140	4.0	20.5
7 20	19 21.60	−10 47.2	2.135	3.133	4.3	20.5
7 30	19 14.21	−11 30.7	2.159	3.127	6.8	20.7
8 9	19 8.03	−12 17.9	2.209	3.120	9.7	20.8
8 19	19 3.60	−13 6.2	2.281	3.113	12.4	21.0

149089 2002 CA_{131} 7 12.4 270°.64 0°.3/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 51.64	−23 7.5	2.213	3.090	11.2	20.5
6 20	19 45.90	−23 4.0	2.134	3.082	8.1	20.3
6 30	19 38.37	−23 1.3	2.079	3.074	4.7	20.0
7 10	19 29.73	−22 57.7	2.051	3.066	1.0	19.7
7 20	19 20.81	−22 51.7	2.051	3.059	3.0	19.9
7 30	19 12.53	−22 42.5	2.078	3.050	6.6	20.1
8 9	19 5.70	−22 30.2	2.131	3.042	10.0	20.3
8 19	19 0.88	−22 15.3	2.207	3.034	12.9	20.5

142344 2002 RM_{205} 7 12.4 128°.55 4°.5/14.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 53.22	− 9 41.2	1.700	2.559	14.9	20.0
6 20	19 47.24	− 9 34.6	1.638	2.568	11.5	19.8
6 30	19 39.20	− 9 41.9	1.598	2.577	7.8	19.6
7 10	19 29.90	−10 2.6	1.584	2.585	4.9	19.5
7 20	19 20.34	−10 34.4	1.595	2.593	5.3	19.5
7 30	19 11.63	−11 14.5	1.632	2.601	8.4	19.7
8 9	19 4.69	−11 59.0	1.694	2.609	11.9	19.9
8 19	19 0.14	−12 44.7	1.777	2.616	15.1	20.2

262185 2006 ST_{141} 7 12.4 247°.54 2°.1/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 55.73	−25 17.6	1.827	2.708	13.0	21.2
6 20	19 49.44	−25 56.7	1.741	2.691	9.6	21.0
6 30	19 40.69	−26 37.9	1.678	2.673	5.6	20.7
7 10	19 30.24	−27 16.7	1.642	2.655	2.2	20.5
7 20	19 19.15	−27 48.5	1.633	2.637	4.4	20.6
7 30	19 8.71	−28 10.3	1.650	2.617	8.5	20.8
8 9	19 0.09	−28 21.5	1.693	2.597	12.5	21.0
8 19	18 54.11	−28 23.4	1.756	2.577	16.0	21.1

216023 2005 VH 7 12.4 339°.93 1°.6/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 48.12	−17 59.0	1.608	2.498	14.0	19.5
6 20	19 43.89	−17 52.8	1.532	2.485	10.3	19.3
6 30	19 37.45	−17 53.5	1.478	2.473	6.2	19.0
7 10	19 29.58	−17 59.6	1.448	2.462	2.1	18.7
7 20	19 21.29	−18 9.2	1.443	2.452	3.7	18.8
7 30	19 13.72	−18 20.6	1.463	2.442	8.1	19.0
8 9	19 7.92	−18 31.9	1.506	2.433	12.3	19.3
8 19	19 4.58	−18 42.1	1.570	2.426	15.9	19.5

434695 2006 BN_{190} 7 12.4 170°.28 5°.2/10.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 58.34	−36 21.1	2.100	2.968	12.1	21.3
6 20	19 50.95	−36 53.8	2.036	2.971	9.3	21.1
6 30	19 41.31	−37 18.0	1.997	2.973	6.7	21.0
7 10	19 30.32	−37 28.9	1.983	2.975	5.2	20.9
7 20	19 19.10	−37 23.6	1.997	2.977	6.3	21.0
7 30	19 8.87	−37 1.8	2.037	2.978	8.9	21.1
8 9	19 0.61	−36 26.0	2.102	2.979	11.7	21.3
8 19	18 54.95	−35 40.3	2.188	2.979	14.2	21.5

188182 2002 JA_{116} 7 12.4 65°.84 2°.8/14.2 18

6 10	19 49.12	− 9 42.9	2.214	3.066	12.2	19.7
6 20	19 43.98	−10 32.9	2.146	3.075	9.2	19.5
6 30	19 37.24	−11 36.0	2.103	3.084	6.0	19.3
7 10	19 29.52	−12 49.6	2.087	3.093	3.2	19.2
7 20	19 21.54	−14 9.8	2.099	3.102	3.5	19.2
7 30	19 14.12	−15 32.4	2.139	3.112	6.5	19.4
8 9	19 8.00	−16 53.1	2.206	3.121	9.6	19.6
8 19	19 3.69	−18 8.7	2.297	3.130	12.3	19.8

477036 2009 AA_{22} 7 12.4 343°.75 0°.8/12.8 16

6 10	19 49.65	−16 3.0	1.628	2.512	14.2	20.7
6 20	19 45.01	−17 3.3	1.557	2.508	10.4	20.4
6 30	19 38.11	−18 16.4	1.508	2.504	6.1	20.2
7 10	19 29.73	−19 37.8	1.485	2.500	1.6	19.9
7 20	19 20.85	−21 1.6	1.488	2.497	3.5	20.0
7 30	19 12.66	−22 22.0	1.517	2.494	8.1	20.3
8 9	19 6.23	−23 34.3	1.570	2.492	12.3	20.5
8 19	19 2.31	−24 36.3	1.645	2.490	15.8	20.7

481055 2005 JP_{102} 7 12.4 345°.89 0°.9/11.9 18

6 10	19 49.83	−20 47.4	1.721	2.610	13.3	20.1
6 20	19 45.08	−21 46.7	1.652	2.606	9.6	19.9
6 30	19 38.12	−22 53.5	1.605	2.603	5.5	19.7
7 10	19 29.72	−24 2.7	1.584	2.600	1.3	19.4
7 20	19 20.87	−25 8.9	1.590	2.597	3.8	19.5
7 30	19 12.72	−26 7.7	1.621	2.595	8.1	19.8
8 9	19 6.31	−26 56.3	1.677	2.593	12.0	20.0
8 19	19 2.34	−27 34.0	1.754	2.591	15.3	20.2

207722 2007 RU_{144} 7 12.4 287°.35 2°.9/13.3 18

6 10	19 50.85	−14 18.0	1.839	2.711	13.4	20.6
6 20	19 45.60	−14 4.4	1.760	2.701	10.1	20.3
6 30	19 38.33	−13 59.4	1.703	2.691	6.4	20.1
7 10	19 29.76	−14 2.5	1.671	2.680	3.3	19.9
7 20	19 20.79	−14 12.3	1.666	2.670	4.2	19.9
7 30	19 12.46	−14 27.3	1.686	2.660	7.8	20.1
8 9	19 5.72	−14 45.5	1.732	2.650	11.5	20.3
8 19	19 1.22	−15 5.1	1.798	2.640	14.8	20.5

129358 3105 *P–L* 7 12.4 242°.57 5°.4/13.9 18

6 10	19 52.10	− 8 31.2	1.876	2.727	14.0	19.7
6 20	19 46.44	− 7 58.0	1.795	2.718	11.1	19.5
6 30	19 38.79	− 7 36.8	1.737	2.709	7.9	19.3
7 10	19 29.86	− 7 28.8	1.704	2.699	5.6	19.2
7 20	19 20.51	− 7 33.8	1.697	2.689	6.0	19.2
7 30	19 11.79	− 7 50.4	1.717	2.679	8.7	19.3
8 9	19 4.61	− 8 16.2	1.760	2.668	11.9	19.5
8 19	18 59.63	− 8 48.0	1.825	2.657	15.0	19.7

172113 2002 GA_{93} 7 12.4 293°.96 4°.6/13.4 18

6 10	19 52.45	−12 48.2	1.361	2.243	16.6	19.4
6 20	19 47.50	−12 19.7	1.276	2.221	12.8	19.1
6 30	19 39.78	−12 2.9	1.212	2.199	8.5	18.8
7 10	19 30.10	−11 58.7	1.170	2.178	5.0	18.5
7 20	19 19.65	−12 6.5	1.153	2.156	5.9	18.5
7 30	19 9.88	−12 24.6	1.159	2.134	10.3	18.7
8 9	19 2.19	−12 50.0	1.187	2.113	15.0	18.9
8 19	18 57.50	−13 19.7	1.234	2.092	19.2	19.1

473051 2015 HL_{84} 7 12.4 221°.33 1°.5/11.9 18

6 10	19 52.98	−24 6.8	1.856	2.740	12.7	21.2
6 20	19 47.21	−24 40.9	1.785	2.737	9.2	21.0
6 30	19 39.27	−25 17.4	1.738	2.734	5.3	20.7
7 10	19 29.95	−25 52.3	1.717	2.731	1.7	20.5
7 20	19 20.25	−26 21.7	1.722	2.728	3.8	20.6
7 30	19 11.30	−26 43.3	1.755	2.725	7.9	20.9
8 9	19 4.10	−26 56.3	1.812	2.721	11.6	21.1
8 19	18 59.33	−27 1.4	1.890	2.718	14.8	21.3

128988 2004 TR_{211} 7 12.4 74°.06 5°.5/11.1 18

6 10	19 58.70	−32 0.3	1.277	2.173	16.5	19.0
6 20	19 52.05	−32 46.8	1.230	2.184	12.3	18.8
6 30	19 42.23	−33 26.7	1.204	2.195	8.1	18.6
7 10	19 30.53	−33 52.4	1.201	2.206	5.5	18.5
7 20	19 18.61	−33 59.0	1.222	2.217	7.2	18.6
7 30	19 8.23	−33 45.9	1.267	2.229	11.1	18.8
8 9	19 0.74	−33 16.7	1.333	2.240	15.1	19.1
8 19	18 56.79	−32 36.3	1.418	2.251	18.5	19.4

328477 Eckstein 7 12.4 18°.62 0°.7/12.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 51.29	−22 21.1	1.046	1.959	17.9	20.8
6 20	19 46.88	−22 33.9	0.999	1.964	13.0	20.5
6 30	19 39.37	−22 51.8	0.970	1.971	7.4	20.2
7 10	19 29.98	−23 10.3	0.962	1.978	1.5	19.9
7 20	19 20.28	−23 25.1	0.977	1.987	4.7	20.1
7 30	19 12.00	−23 33.6	1.014	1.997	10.3	20.5
8 9	19 6.47	−23 35.4	1.072	2.008	15.3	20.8
8 19	19 4.37	−23 31.0	1.147	2.019	19.4	21.1

423677 2005 YB_{197} 7 12.4 102°.45 0°.8/12.2 17

6 10	19 53.98	−23 4.9	1.741	2.625	13.4	21.5
6 20	19 47.88	−23 19.9	1.680	2.632	9.7	21.3
6 30	19 39.60	−23 37.1	1.643	2.639	5.5	21.0
7 10	19 30.01	−23 53.2	1.631	2.646	1.3	20.8
7 20	19 20.19	−24 5.4	1.646	2.653	3.6	20.9
7 30	19 11.29	−24 12.1	1.687	2.660	7.8	21.2
8 9	19 4.29	−24 13.0	1.752	2.667	11.6	21.5
8 19	18 59.80	−24 8.9	1.839	2.673	14.8	21.7

122686 2000 SW_3 7 12.4 301°.40 7°.5/ 9.3 18

6 10	19 55.17	−36 23.4	1.562	2.449	14.5	19.6
6 20	19 49.67	−37 44.1	1.491	2.433	11.4	19.4
6 30	19 41.10	−38 58.7	1.441	2.418	8.6	19.2
7 10	19 30.38	−39 58.1	1.416	2.403	7.5	19.1
7 20	19 18.89	−40 35.2	1.414	2.389	9.0	19.1
7 30	19 8.32	−40 46.7	1.436	2.374	12.1	19.3
8 9	19 0.17	−40 34.7	1.480	2.360	15.5	19.5
8 19	18 55.41	−40 3.7	1.541	2.346	18.6	19.6

236572 2006 HK_{92} 7 12.4 274°.49 4°.5/14.0 18

6 10	19 50.28	− 9 27.8	1.932	2.788	13.5	21.0
6 20	19 45.17	− 9 18.5	1.844	2.772	10.5	20.8
6 30	19 38.12	− 9 21.8	1.779	2.755	7.3	20.6
7 10	19 29.75	− 9 37.8	1.738	2.738	4.8	20.4
7 20	19 20.91	−10 5.2	1.724	2.721	5.1	20.4
7 30	19 12.58	−10 41.8	1.736	2.704	8.1	20.5
8 9	19 5.69	−11 24.5	1.773	2.687	11.5	20.7
8 19	19 0.91	−12 10.0	1.831	2.670	14.7	20.9

130119 1999 XH_{81} 7 12.4 194°.14 3°.8/10.5 18

6 10	19 53.77	−29 6.6	2.027	2.907	11.9	19.9
6 20	19 47.81	−30 22.3	1.959	2.907	8.8	19.7
6 30	19 39.65	−31 37.6	1.916	2.905	5.6	19.5
7 10	19 30.06	−32 46.6	1.899	2.904	3.8	19.4
7 20	19 20.00	−33 43.9	1.911	2.902	5.4	19.5
7 30	19 10.61	−34 26.4	1.949	2.901	8.5	19.6
8 9	19 2.92	−34 53.5	2.012	2.898	11.7	19.8
8 19	18 57.63	−35 6.7	2.095	2.896	14.4	20.0

418934 2009 DL_{21} 7 12.4 358°.84 1°.9/11.9 17

6 10	19 52.66	−24 8.4	1.106	2.016	17.4	20.6
6 20	19 47.98	−24 36.5	1.049	2.013	12.7	20.3
6 30	19 40.11	−25 8.3	1.012	2.012	7.3	20.0
7 10	19 30.17	−25 38.0	0.996	2.011	2.2	19.7
7 20	19 19.74	−26 0.3	1.003	2.012	5.2	19.9
7 30	19 10.59	−26 12.2	1.033	2.012	10.7	20.2
8 9	19 4.19	−26 13.4	1.083	2.014	15.6	20.4
8 19	19 1.34	−26 5.6	1.151	2.016	19.8	20.7

435111 2007 DQ_{68} 7 12.4 350°.79 6°.8/10.9 15

6 10	19 56.34	−36 10.7	1.388	2.279	15.7	20.9
6 20	19 50.43	−36 45.4	1.328	2.275	12.2	20.6
6 30	19 41.39	−37 9.6	1.289	2.272	8.7	20.4
7 10	19 30.42	−37 16.1	1.273	2.270	6.8	20.3
7 20	19 19.08	−37 0.8	1.281	2.268	8.1	20.4
7 30	19 9.10	−36 23.6	1.312	2.267	11.5	20.6
8 9	19 1.85	−35 29.1	1.364	2.266	15.2	20.8
8 19	18 58.06	−34 23.1	1.436	2.266	18.5	21.0

382579 2002 CZ_{126} 7 12.4 99°.10 4°.7/14.9 17

6 10	19 51.09	− 6 43.1	1.771	2.621	14.8	20.5
6 20	19 45.72	− 7 12.2	1.706	2.629	11.5	20.3
6 30	19 38.38	− 7 59.3	1.663	2.636	8.0	20.1
7 10	19 29.82	− 9 2.5	1.645	2.644	5.2	19.9
7 20	19 20.95	−10 18.1	1.653	2.651	5.2	19.9
7 30	19 12.80	−11 41.0	1.688	2.659	8.1	20.1
8 9	19 6.28	−13 5.7	1.749	2.666	11.5	20.3
8 19	19 2.00	−14 27.5	1.831	2.673	14.6	20.6

458109 2010 CP_{58} 7 12.4 186°.29 8°.1/18.0 18

6 10	19 51.96	+ 7 14.5	2.442	3.200	13.9	21.5
6 20	19 45.94	+ 6 59.3	2.360	3.200	12.0	21.3
6 30	19 38.37	+ 6 22.3	2.299	3.199	10.0	21.2
7 10	19 29.82	+ 5 22.6	2.263	3.198	8.5	21.1
7 20	19 20.97	+ 4 1.8	2.253	3.196	8.1	21.1
7 30	19 12.61	+ 2 23.3	2.271	3.193	9.0	21.1
8 9	19 5.44	+ 0 32.8	2.315	3.190	10.8	21.2
8 19	19 0.00	− 1 23.8	2.384	3.186	12.9	21.4

98605 2000 WW_{70} 7 12.4 137°.44 4°.4/11.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 58.66	−31 12.0	1.482	2.370	15.1	19.4
6 20	19 51.79	−31 42.4	1.423	2.373	11.2	19.1
6 30	19 42.05	−32 7.4	1.386	2.377	7.2	18.9
7 10	19 30.56	−32 20.9	1.374	2.380	4.5	18.8
7 20	19 18.77	−32 19.0	1.386	2.384	6.2	18.9
7 30	19 8.24	−32 1.1	1.424	2.387	10.1	19.1
8 9	19 0.23	−31 30.0	1.485	2.389	14.0	19.3
8 19	18 55.46	−30 49.8	1.565	2.392	17.3	19.6

515230 2012 BZ_{99} 7 12.4 244°.87 1°.1/13.0 18

6 10	19 48.92	−16 22.3	2.531	3.396	10.4	21.7
6 20	19 43.82	−16 52.1	2.446	3.387	7.6	21.5
6 30	19 37.20	−17 29.0	2.386	3.377	4.6	21.3
7 10	19 29.59	−18 10.7	2.353	3.367	1.5	21.1
7 20	19 21.65	−18 54.7	2.349	3.357	2.6	21.2
7 30	19 14.14	−19 38.6	2.374	3.347	5.9	21.4
8 9	19 7.75	−20 20.2	2.425	3.337	8.9	21.5
8 19	19 3.03	−20 58.0	2.500	3.326	11.6	21.7

217014 2001 BX_1 7 12.4 80°.39 0°.4/12.5 17

6 10	20 5.77	−24 2.1	1.506	2.380	15.7	18.9
6 20	19 56.06	−23 6.7	1.465	2.412	11.3	18.7
6 30	19 44.00	−22 9.6	1.449	2.443	6.4	18.5
7 10	19 30.86	−21 10.6	1.458	2.474	1.3	18.3
7 20	19 18.08	−20 11.1	1.496	2.505	3.8	18.5
7 30	19 6.97	−19 13.3	1.562	2.534	8.4	18.9
8 9	18 58.47	−18 19.8	1.653	2.564	12.4	19.2
8 19	18 53.00	−17 32.1	1.765	2.592	15.7	19.5

64167 2001 TZ_{50} 7 12.4 179°.11 2°.4/11.7 18

6 10	19 58.30	−26 21.3	1.624	2.508	14.2	20.2
6 20	19 51.33	−26 54.4	1.559	2.509	10.4	19.9
6 30	19 41.75	−27 27.4	1.516	2.511	6.1	19.7
7 10	19 30.51	−27 55.2	1.498	2.511	2.6	19.5
7 20	19 18.88	−28 13.6	1.507	2.511	4.7	19.6
7 30	19 8.26	−28 20.7	1.543	2.510	9.0	19.8
8 9	18 59.84	−28 17.2	1.602	2.509	13.0	20.1
8 19	18 54.36	−28 5.1	1.682	2.507	16.4	20.3

36800 Katarinawitt 7 12.4 332°.28 4°.6/11.0 18

6 10	19 52.96	−28 25.2	1.160	2.068	16.8	18.2
6 20	19 48.38	−29 21.4	1.097	2.059	12.5	17.9
6 30	19 40.48	−30 18.0	1.054	2.051	7.8	17.6
7 10	19 30.31	−31 6.8	1.033	2.043	4.6	17.4
7 20	19 19.44	−31 40.6	1.035	2.036	6.9	17.5
7 30	19 9.76	−31 55.4	1.059	2.029	11.7	17.8
8 9	19 2.85	−31 52.1	1.103	2.023	16.4	18.0
8 19	18 59.64	−31 34.1	1.165	2.018	20.4	18.3

30573 2001 OR_{99} 7 12.4 9°.62 0°.4/12.3 17

6 10	19 49.52	−21 59.4	1.066	1.980	17.5	18.3
6 20	19 45.61	−22 9.8	1.016	1.982	12.7	18.1
6 30	19 38.69	−22 25.6	0.984	1.985	7.3	17.8
7 10	19 29.92	−22 42.9	0.974	1.990	1.5	17.4
7 20	19 20.79	−22 57.6	0.985	1.996	4.6	17.7
7 30	19 12.97	−23 7.0	1.019	2.003	10.1	18.0
8 9	19 7.79	−23 10.3	1.074	2.011	15.1	18.3
8 19	19 5.93	−23 7.7	1.146	2.021	19.2	18.6

478820 2012 VU_{18} 7 12.4 264°.55 2°.8/13.5 18

6 10	19 50.91	−13 26.2	2.007	2.873	12.7	21.8
6 20	19 45.60	−13 25.7	1.920	2.858	9.6	21.5
6 30	19 38.36	−13 34.6	1.856	2.843	6.2	21.3
7 10	19 29.85	−13 52.0	1.818	2.827	3.2	21.1
7 20	19 20.89	−14 16.3	1.807	2.811	3.9	21.1
7 30	19 12.46	−14 45.3	1.823	2.796	7.4	21.3
8 9	19 5.46	−15 16.5	1.864	2.780	11.0	21.5
8 19	19 0.55	−15 47.9	1.927	2.763	14.2	21.6

141867 2002 PY_{30} 7 12.4 11°.28 1°.8/12.9 17

6 10	19 49.54	−18 14.1	1.031	1.942	18.2	19.5
6 20	19 45.62	−18 5.9	0.981	1.944	13.4	19.3
6 30	19 38.70	−18 7.6	0.949	1.948	8.0	19.0
7 10	19 29.92	−18 16.9	0.938	1.953	2.5	18.7
7 20	19 20.81	−18 30.8	0.949	1.959	4.7	18.9
7 30	19 13.00	−18 46.3	0.982	1.967	10.2	19.2
8 9	19 7.81	−19 0.9	1.035	1.976	15.2	19.5
8 19	19 5.96	−19 13.1	1.106	1.986	19.4	19.8

36694 2000 RT_{15} 7 12.4 301°.32 4°.2/13.7 18

6 10	19 49.72	−10 55.2	2.018	2.877	12.9	18.7
6 20	19 44.63	−10 26.2	1.937	2.868	9.9	18.5
6 30	19 37.75	−10 6.8	1.880	2.858	6.9	18.3
7 10	19 29.73	− 9 57.5	1.848	2.849	4.5	18.1
7 20	19 21.36	− 9 58.2	1.843	2.840	4.9	18.1
7 30	19 13.58	−10 7.6	1.864	2.831	7.7	18.3
8 9	19 7.20	−10 23.7	1.909	2.822	10.9	18.4
8 19	19 2.82	−10 44.5	1.977	2.813	13.9	18.6

89559 2001 XT_{99} 7 12.4 225°.05 0°.5/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 55.48	−21 39.6	1.808	2.687	13.3	19.5
6 20	19 48.97	−21 20.2	1.734	2.683	9.7	19.3
6 30	19 40.28	−21 2.2	1.683	2.679	5.6	19.0
7 10	19 30.23	−20 44.2	1.658	2.674	1.2	18.7
7 20	19 19.87	−20 25.2	1.661	2.669	3.4	18.9
7 30	19 10.36	−20 5.0	1.690	2.665	7.7	19.1
8 9	19 2.69	−19 44.0	1.745	2.660	11.6	19.3
8 19	18 57.51	−19 22.9	1.821	2.654	15.0	19.6

95707 2002 KZ_1 7 12.4 184°.20 10°.7/ 6.7 18

6 10	20 1.50	−48 7.7	1.915	2.757	14.2	19.3
6 20	19 54.33	−49 57.4	1.864	2.757	12.3	19.2
6 30	19 43.81	−51 31.1	1.837	2.757	11.0	19.1
7 10	19 30.99	−52 39.4	1.833	2.757	10.8	19.1
7 20	19 17.44	−53 16.3	1.852	2.757	11.7	19.2
7 30	19 5.03	−53 20.6	1.894	2.756	13.5	19.3
8 9	18 55.35	−52 56.7	1.955	2.756	15.4	19.4
8 19	18 49.35	−52 11.1	2.034	2.755	17.3	19.6

291585 2006 GD_6 7 12.4 152°.29 0°.2/12.5 17

6 10	19 52.43	−19 39.0	1.981	2.857	12.4	21.1
6 20	19 46.62	−20 7.8	1.913	2.861	9.0	20.9
6 30	19 38.88	−20 42.1	1.870	2.865	5.2	20.7
7 10	19 29.95	−21 18.7	1.853	2.869	1.1	20.4
7 20	19 20.72	−21 54.5	1.864	2.872	3.1	20.6
7 30	19 12.20	−22 26.7	1.902	2.875	7.1	20.8
8 9	19 5.27	−22 53.9	1.965	2.878	10.6	21.0
8 19	19 0.53	−23 15.3	2.051	2.881	13.7	21.2

302240 2001 WY_{59} 7 12.4 166°.09 3°.0/13.3 17

6 10	19 56.22	−14 40.0	1.632	2.502	14.9	21.1
6 20	19 49.60	−14 26.8	1.566	2.506	11.1	20.9
6 30	19 40.67	−14 22.7	1.522	2.510	7.0	20.6
7 10	19 30.31	−14 26.8	1.503	2.513	3.4	20.4
7 20	19 19.64	−14 37.4	1.511	2.516	4.4	20.5
7 30	19 9.88	−14 52.5	1.545	2.518	8.4	20.7
8 9	19 2.08	−15 10.2	1.603	2.519	12.4	21.0
8 19	18 56.90	−15 28.7	1.682	2.520	15.9	21.2

359436 2010 MT_{56} 7 12.4 333°.07 0°.4/12.6 18

6 10	19 51.35	−21 25.1	1.969	2.850	12.2	20.3
6 20	19 45.85	−21 11.1	1.895	2.845	8.9	20.1
6 30	19 38.44	−20 59.3	1.845	2.840	5.1	19.8
7 10	19 29.86	−20 48.0	1.820	2.836	1.1	19.5
7 20	19 21.01	−20 36.3	1.823	2.832	3.1	19.7
7 30	19 12.88	−20 23.5	1.852	2.828	7.1	19.9
8 9	19 6.33	−20 9.7	1.907	2.824	10.7	20.1
8 19	19 1.97	−19 55.0	1.983	2.820	13.8	20.3

386280 2008 QS_{25} 7 12.5 315°.06 1°.2/12.3 18

6 10	19 54.83	−26 2.5	1.416	2.311	15.2	20.7
6 20	19 49.26	−25 38.6	1.332	2.289	11.2	20.4
6 30	19 40.81	−25 11.3	1.270	2.268	6.6	20.1
7 10	19 30.39	−24 37.9	1.231	2.246	1.7	19.7
7 20	19 19.35	−23 57.2	1.217	2.226	4.3	19.8
7 30	19 9.23	−23 9.9	1.228	2.205	9.6	20.1
8 9	19 1.41	−22 18.6	1.261	2.186	14.4	20.3
8 19	18 56.77	−21 26.3	1.314	2.167	18.6	20.5

115882 2003 UM_{293} 7 12.5 300°.28 3°.0/13.9 18

6 10	19 49.91	−10 53.5	1.743	2.610	14.2	19.4
6 20	19 45.13	−11 36.1	1.662	2.599	10.8	19.2
6 30	19 38.22	−12 34.9	1.602	2.588	7.0	18.9
7 10	19 29.86	−13 47.7	1.568	2.578	3.5	18.7
7 20	19 20.97	−15 9.9	1.561	2.567	4.1	18.7
7 30	19 12.64	−16 36.1	1.580	2.556	7.9	18.9
8 9	19 5.90	−18 0.8	1.624	2.546	11.9	19.1
8 19	19 1.49	−19 20.0	1.690	2.536	15.4	19.3

107581 2001 DA_{97} 7 12.5 50°.37 2°.3/11.8 17

6 10	19 55.27	−25 19.5	1.217	2.119	16.7	19.2
6 20	19 49.42	−25 51.8	1.175	2.135	12.1	19.0
6 30	19 40.70	−26 24.9	1.154	2.152	7.0	18.8
7 10	19 30.32	−26 53.0	1.155	2.169	2.6	18.6
7 20	19 19.80	−27 11.7	1.181	2.187	5.0	18.8
7 30	19 10.73	−27 19.0	1.230	2.205	9.9	19.1
8 9	19 4.31	−27 15.7	1.301	2.223	14.2	19.4
8 19	19 1.14	−27 4.1	1.391	2.242	17.8	19.7

504162 2006 SP_{316} 7 12.5 248°.58 1°.8/11.8 17

6 10	19 55.49	−24 34.6	1.759	2.642	13.4	22.6
6 20	19 49.34	−25 8.2	1.676	2.627	9.8	22.4
6 30	19 40.71	−25 44.4	1.616	2.612	5.7	22.1
7 10	19 30.38	−26 18.7	1.581	2.596	2.0	21.8
7 20	19 19.44	−26 46.8	1.574	2.579	4.2	21.9
7 30	19 9.19	−27 5.9	1.593	2.562	8.6	22.1
8 9	19 0.81	−27 15.4	1.636	2.545	12.6	22.3
8 19	18 55.12	−27 16.2	1.700	2.527	16.2	22.5

329942 2005 QG_{14} 7 12.5 328.°88 8.°6/16.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 48.22	− 0 17.8	1.345	2.192	18.7	20.0
6 20	19 44.32	− 0 30.2	1.269	2.181	15.5	19.8
6 30	19 37.93	− 1 12.6	1.212	2.170	12.1	19.5
7 10	19 29.83	− 2 26.2	1.176	2.159	9.3	19.3
7 20	19 21.11	− 4 8.4	1.163	2.150	8.8	19.3
7 30	19 13.08	− 6 11.9	1.173	2.141	11.1	19.4
8 9	19 6.97	− 8 26.7	1.206	2.132	14.8	19.6
8 19	19 3.63	−10 42.5	1.259	2.125	18.5	19.8

352525 2008 CR_{137} 7 12.5 105.°17 0.°8/12.8 18

6 10	19 50.24	−18 8.6	2.245	3.117	11.3	21.1
6 20	19 44.81	−18 28.8	2.181	3.126	8.2	20.9
6 30	19 37.77	−18 54.5	2.141	3.134	4.8	20.7
7 10	19 29.75	−19 23.5	2.127	3.142	1.3	20.5
7 20	19 21.53	−19 53.3	2.142	3.150	2.8	20.6
7 30	19 13.94	−20 21.8	2.185	3.159	6.3	20.9
8 9	19 7.71	−20 47.5	2.253	3.166	9.4	21.1
8 19	19 3.36	−21 9.4	2.344	3.174	12.2	21.3

168330 1993 TZ_{7} 7 12.5 7.°68 2.°4/11.8 18

6 10	19 52.17	−27 0.0	1.521	2.417	14.3	19.4
6 20	19 46.96	−27 16.8	1.461	2.418	10.4	19.2
6 30	19 39.27	−27 32.4	1.423	2.420	6.2	19.0
7 10	19 30.08	−27 42.7	1.408	2.422	2.6	18.7
7 20	19 20.59	−27 44.7	1.419	2.424	4.6	18.9
7 30	19 12.13	−27 37.0	1.455	2.428	8.9	19.1
8 9	19 5.81	−27 20.8	1.513	2.432	12.9	19.4
8 19	19 2.28	−26 57.8	1.592	2.436	16.3	19.6

444979 2008 EY_{152} 7 12.5 349.°75 12.°3/17.8 16

6 10	19 46.99	+11 22.5	1.979	2.735	16.8	20.5
6 20	19 42.70	+12 30.3	1.912	2.731	15.1	20.3
6 30	19 36.68	+13 13.4	1.863	2.727	13.6	20.2
7 10	19 29.56	+13 28.1	1.834	2.724	12.6	20.1
7 20	19 22.12	+13 12.5	1.826	2.721	12.4	20.1
7 30	19 15.24	+12 28.0	1.839	2.719	13.0	20.2
8 9	19 9.72	+11 19.2	1.873	2.718	14.3	20.2
8 19	19 6.15	+ 9 52.5	1.927	2.716	15.9	20.4

314514 2005 XX_{70} 7 12.5 199.°24 2.°2/13.8 18

6 10	19 48.73	−11 42.9	2.878	3.726	9.8	21.5
6 20	19 43.49	−12 11.1	2.795	3.722	7.4	21.3
6 30	19 36.96	−12 47.8	2.737	3.719	4.8	21.1
7 10	19 29.61	−13 31.7	2.707	3.715	2.5	21.0
7 20	19 21.99	−14 20.7	2.707	3.710	2.9	21.0
7 30	19 14.76	−15 12.3	2.736	3.705	5.4	21.2
8 9	19 8.50	−16 4.1	2.792	3.700	8.0	21.3
8 19	19 3.68	−16 54.1	2.873	3.695	10.4	21.5

296335 2009 EM_{25} 7 12.5 297.°23 0.°9/12.8 18

6 10	19 50.68	−18 46.8	1.915	2.795	12.6	20.6
6 20	19 45.49	−18 54.6	1.838	2.787	9.2	20.4
6 30	19 38.33	−19 8.2	1.784	2.779	5.4	20.1
7 10	19 29.91	−19 25.4	1.756	2.771	1.5	19.8
7 20	19 21.11	−19 44.0	1.755	2.763	3.2	19.9
7 30	19 12.96	−20 2.0	1.780	2.756	7.3	20.2
8 9	19 6.37	−20 17.8	1.830	2.748	11.0	20.4
8 19	19 1.99	−20 30.8	1.902	2.741	14.2	20.6

19493 1998 JY_{1} 7 12.5 286.°28 0.°9/12.2 18

6 10	19 53.81	−24 9.2	1.742	2.628	13.3	17.5
6 20	19 48.02	−24 10.4	1.662	2.614	9.7	17.2
6 30	19 39.90	−24 12.1	1.605	2.601	5.6	17.0
7 10	19 30.25	−24 11.8	1.572	2.588	1.4	16.6
7 20	19 20.14	−24 7.1	1.567	2.575	3.7	16.8
7 30	19 10.81	−23 56.9	1.588	2.562	8.1	17.0
8 9	19 3.33	−23 41.6	1.632	2.549	12.2	17.2
8 19	18 58.44	−23 22.5	1.698	2.536	15.7	17.4

424082 2007 DY_{39} 7 12.5 174.°91 1.°8/12.0 17

6 10	19 57.32	−26 40.4	1.948	2.824	12.6	22.0
6 20	19 50.22	−26 47.6	1.879	2.827	9.1	21.8
6 30	19 40.98	−26 53.0	1.834	2.829	5.4	21.6
7 10	19 30.44	−26 53.4	1.816	2.830	2.0	21.4
7 20	19 19.65	−26 46.7	1.826	2.831	3.8	21.5
7 30	19 9.75	−26 32.3	1.863	2.831	7.6	21.8
8 9	19 1.71	−26 11.3	1.926	2.831	11.2	22.0
8 19	18 56.14	−25 45.6	2.010	2.830	14.3	22.2

396883 2004 TN_{262} 7 12.5 315.°38 3.°3/10.9 18

6 10	19 50.09	−27 33.2	1.891	2.781	12.3	20.5
6 20	19 45.43	−28 35.0	1.805	2.758	9.1	20.3
6 30	19 38.50	−29 39.0	1.742	2.736	5.6	20.0
7 10	19 29.99	−30 39.7	1.704	2.713	3.3	19.9
7 20	19 20.85	−31 31.9	1.694	2.692	5.1	19.9
7 30	19 12.23	−32 11.7	1.709	2.671	8.7	20.1
8 9	19 5.24	−32 37.8	1.748	2.650	12.4	20.3
8 19	19 0.70	−32 50.8	1.808	2.629	15.6	20.4

272203 2005 QZ_{20} 7 12.5 335.°37 1.°5/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 49.13	−19 20.4	1.142	2.050	17.1	19.5
6 20	19 45.45	−19 5.5	1.070	2.033	12.7	19.1
6 30	19 38.78	−18 57.7	1.018	2.017	7.5	18.8
7 10	19 30.07	−18 55.1	0.987	2.002	2.2	18.4
7 20	19 20.68	−18 55.9	0.979	1.989	4.6	18.5
7 30	19 12.27	−18 58.1	0.992	1.977	10.2	18.8
8 9	19 6.28	−19 0.2	1.027	1.966	15.4	19.1
8 19	19 3.62	−19 1.2	1.078	1.956	20.0	19.3

140958 2001 VT_{103} 7 12.5 253.°93 4.°8/10.4 18

6 10	19 53.48	−33 59.1	2.133	3.010	11.6	19.6
6 20	19 47.58	−34 51.7	2.065	3.006	8.8	19.5
6 30	19 39.55	−35 39.2	2.021	3.003	6.2	19.3
7 10	19 30.18	−36 16.5	2.004	2.999	4.8	19.2
7 20	19 20.43	−36 39.8	2.013	2.996	6.0	19.3
7 30	19 11.43	−36 47.5	2.049	2.993	8.6	19.4
8 9	19 4.14	−36 40.5	2.108	2.989	11.5	19.6
8 19	18 59.22	−36 21.4	2.189	2.986	14.0	19.8

92134 1999 XX_{111} 7 12.5 332.°39 7.°3/ 8.3 18

6 10	19 50.75	−35 27.6	1.679	2.569	13.5	18.3
6 20	19 46.40	−37 13.4	1.606	2.550	10.6	18.0
6 30	19 39.29	−38 56.3	1.555	2.532	8.1	17.8
7 10	19 30.19	−40 27.0	1.529	2.515	7.3	17.8
7 20	19 20.27	−41 37.7	1.528	2.498	8.9	17.8
7 30	19 11.01	−42 23.7	1.551	2.482	11.8	17.9
8 9	19 3.82	−42 45.0	1.595	2.467	15.0	18.1
8 19	18 59.69	−42 44.6	1.657	2.453	17.8	18.3

425556 2010 RY_{125} 7 12.5 257.°45 2.°0/11.8 17

6 10	19 55.40	−24 43.2	1.539	2.428	14.5	21.7
6 20	19 49.53	−25 19.6	1.463	2.417	10.7	21.4
6 30	19 40.94	−25 58.9	1.408	2.405	6.2	21.1
7 10	19 30.50	−26 36.0	1.379	2.393	2.2	20.8
7 20	19 19.43	−27 5.9	1.375	2.381	4.6	21.0
7 30	19 9.19	−27 25.6	1.397	2.368	9.3	21.2
8 9	19 1.08	−27 34.4	1.442	2.355	13.7	21.4
8 19	18 55.96	−27 33.7	1.506	2.342	17.5	21.7

137706 1999 XB_{83} 7 12.5 271.°28 0.°6/12.3 18

6 10	19 54.46	−21 20.9	1.643	2.527	14.1	20.6
6 20	19 48.80	−21 50.8	1.553	2.505	10.3	20.3
6 30	19 40.54	−22 27.0	1.487	2.483	6.0	20.0
7 10	19 30.44	−23 5.5	1.445	2.461	1.3	19.6
7 20	19 19.57	−23 41.9	1.429	2.438	3.9	19.8
7 30	19 9.31	−24 12.8	1.440	2.414	8.8	20.0
8 9	19 0.92	−24 36.2	1.474	2.391	13.3	20.2
8 19	18 55.31	−24 52.1	1.529	2.367	17.2	20.4

183965 2004 DD_{77} 7 12.5 130.°38 0.°9/12.2 17

6 10	19 55.91	−22 54.5	1.736	2.617	13.6	20.7
6 20	19 49.34	−23 16.3	1.676	2.627	9.8	20.5
6 30	19 40.53	−23 40.7	1.640	2.636	5.6	20.2
7 10	19 30.38	−24 3.8	1.630	2.646	1.3	20.0
7 20	19 20.00	−24 22.5	1.647	2.655	3.6	20.1
7 30	19 10.57	−24 34.9	1.691	2.663	7.9	20.4
8 9	19 3.10	−24 40.6	1.759	2.671	11.7	20.7
8 19	18 58.19	−24 40.6	1.848	2.678	14.9	20.9

418057 2007 VS_{159} 7 12.5 36.°15 1.°3/12.0 17

6 10	19 52.90	−21 17.3	1.171	2.075	17.1	20.5
6 20	19 47.97	−22 11.6	1.121	2.082	12.4	20.3
6 30	19 40.07	−23 13.8	1.091	2.091	7.0	20.0
7 10	19 30.33	−24 17.3	1.084	2.099	1.7	19.7
7 20	19 20.19	−25 15.1	1.100	2.109	4.7	19.9
7 30	19 11.30	−26 2.1	1.140	2.119	10.0	20.3
8 9	19 4.98	−26 36.2	1.202	2.129	14.7	20.6
8 19	19 1.97	−26 57.9	1.282	2.140	18.7	20.8

430940 2005 UE_{139} 7 12.5 274.°00 1.°3/12.0 17

6 10	19 53.27	−23 7.2	1.640	2.528	13.9	22.0
6 20	19 47.76	−23 40.7	1.567	2.521	10.1	21.7
6 30	19 39.82	−24 18.2	1.517	2.514	5.8	21.5
7 10	19 30.28	−24 55.3	1.492	2.507	1.6	21.2
7 20	19 20.25	−25 27.7	1.492	2.499	4.0	21.3
7 30	19 11.02	−25 52.5	1.519	2.492	8.5	21.6
8 9	19 3.72	−26 8.6	1.569	2.485	12.7	21.8
8 19	18 59.11	−26 16.4	1.640	2.478	16.2	22.0

12486 1997 GP_{6} 7 12.5 93.°03 3.°3/11.4 18

6 10	19 56.24	−27 56.5	1.524	2.414	14.6	17.7
6 20	19 49.94	−28 38.6	1.470	2.423	10.7	17.5
6 30	19 41.02	−29 19.2	1.437	2.432	6.5	17.3
7 10	19 30.51	−29 52.6	1.430	2.440	3.4	17.1
7 20	19 19.71	−30 14.2	1.448	2.449	5.3	17.3
7 30	19 10.05	−30 22.2	1.491	2.457	9.3	17.5
8 9	19 2.68	−30 17.6	1.557	2.466	13.2	17.8
8 19	18 58.28	−30 3.0	1.644	2.474	16.5	18.0

310229 2011 SP_{234} 7 12.5 303°.04 0°.8/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 50.79	−19 9.6	1.846	2.728	12.9	20.9
6 20	19 45.70	−19 14.6	1.766	2.716	9.5	20.6
6 30	19 38.53	−19 25.1	1.709	2.705	5.5	20.4
7 10	19 30.03	−19 39.2	1.678	2.693	1.5	20.1
7 20	19 21.10	−19 54.4	1.673	2.682	3.3	20.2
7 30	19 12.82	−20 9.0	1.694	2.671	7.5	20.4
8 9	19 6.15	−20 21.4	1.740	2.660	11.4	20.6
8 19	19 1.77	−20 31.1	1.807	2.649	14.7	20.8

308546 2005 UP_{235} 7 12.5 86°.74 3°.6/10.7 18

6 10	19 51.75	−30 16.0	2.248	3.127	11.0	20.4
6 20	19 46.15	−31 13.3	2.185	3.131	8.1	20.2
6 30	19 38.69	−32 8.5	2.147	3.135	5.3	20.1
7 10	19 30.04	−32 56.8	2.135	3.139	3.6	20.0
7 20	19 21.09	−33 34.6	2.152	3.143	4.9	20.1
7 30	19 12.80	−33 59.8	2.195	3.147	7.7	20.2
8 9	19 6.04	−34 12.3	2.263	3.151	10.5	20.4
8 19	19 1.39	−34 13.6	2.353	3.155	13.0	20.6

58061 2769 P–L 7 12.5 8°.17 8°.9/15.8 18

6 10	19 48.97	− 1 35.9	1.425	2.272	17.9	18.6
6 20	19 44.61	− 1 3.5	1.363	2.273	14.8	18.4
6 30	19 37.98	− 0 54.5	1.320	2.274	11.6	18.2
7 10	19 29.92	− 1 11.2	1.298	2.276	9.3	18.1
7 20	19 21.48	− 1 52.7	1.299	2.278	9.1	18.1
7 30	19 13.88	− 2 55.1	1.323	2.281	11.2	18.2
8 9	19 8.15	− 4 12.0	1.370	2.284	14.2	18.4
8 19	19 4.97	− 5 36.2	1.435	2.288	17.3	18.6

33240 1998 HC_3 7 12.5 175°.56 5°.5/15.3 18

6 10	19 48.78	− 2 52.7	2.517	3.336	11.9	19.7
6 20	19 43.64	− 2 43.2	2.442	3.338	9.7	19.6
6 30	19 37.11	− 2 47.6	2.390	3.339	7.4	19.4
7 10	19 29.72	− 3 6.0	2.363	3.340	5.8	19.3
7 20	19 22.10	− 3 37.6	2.364	3.340	5.7	19.3
7 30	19 14.95	− 4 20.5	2.391	3.340	7.3	19.4
8 9	19 8.90	− 5 11.4	2.444	3.340	9.5	19.6
8 19	19 4.44	− 6 7.2	2.521	3.340	11.8	19.7

141071 2001 XM_{17} 7 12.5 239°.60 4°.0/10.6 18

6 10	19 52.84	−32 4.3	2.238	3.115	11.1	19.8
6 20	19 47.04	−32 54.7	2.167	3.110	8.3	19.6
6 30	19 39.25	−33 41.6	2.120	3.105	5.6	19.4
7 10	19 30.19	−34 20.4	2.100	3.101	4.0	19.3
7 20	19 20.75	−34 47.5	2.107	3.096	5.3	19.4
7 30	19 11.98	−35 1.0	2.141	3.090	8.0	19.6
8 9	19 4.77	−35 1.4	2.200	3.085	10.9	19.7
8 19	18 59.78	−34 50.6	2.280	3.080	13.4	19.9

435706 2008 TT_{172} 7 12.5 272°.23 0°.9/12.7 18

6 10	19 52.79	−19 36.2	1.823	2.703	13.1	21.2
6 20	19 47.07	−19 30.4	1.751	2.700	9.6	21.0
6 30	19 39.27	−19 29.0	1.703	2.698	5.6	20.8
7 10	19 30.19	−19 30.2	1.680	2.695	1.5	20.5
7 20	19 20.80	−19 32.3	1.684	2.693	3.3	20.6
7 30	19 12.17	−19 34.0	1.715	2.690	7.5	20.9
8 9	19 5.26	−19 34.5	1.770	2.688	11.3	21.1
8 19	19 0.69	−19 33.7	1.846	2.685	14.6	21.3

318565 2005 GX_{118} 7 12.5 207°.10 0°.9/12.2 17

6 10	19 56.11	−22 39.1	1.811	2.689	13.2	21.9
6 20	19 49.64	−23 9.5	1.735	2.685	9.6	21.7
6 30	19 40.85	−23 43.5	1.683	2.679	5.5	21.4
7 10	19 30.53	−24 17.1	1.658	2.673	1.4	21.1
7 20	19 19.76	−24 46.4	1.659	2.666	3.7	21.3
7 30	19 9.73	−25 8.9	1.688	2.659	8.0	21.5
8 9	19 1.54	−25 23.7	1.741	2.651	12.0	21.7
8 19	18 55.91	−25 31.3	1.816	2.642	15.3	22.0

383869 2008 RA_{26} 7 12.5 250°.33 1°.5/12.1 18

6 10	19 56.89	−26 31.6	2.131	3.004	11.8	21.5
6 20	19 50.01	−26 31.4	2.039	2.985	8.6	21.3
6 30	19 40.99	−26 29.3	1.972	2.966	5.1	21.1
7 10	19 30.57	−26 22.5	1.931	2.946	1.7	20.8
7 20	19 19.69	−26 9.1	1.919	2.925	3.6	20.9
7 30	19 9.45	−25 48.3	1.936	2.903	7.4	21.1
8 9	19 0.85	−25 21.4	1.978	2.882	11.0	21.3
8 19	18 54.56	−24 50.0	2.042	2.859	14.2	21.4

52714 1998 FP_{115} 7 12.5 95°.86 3°.8/11.1 18

6 10	19 54.98	−33 2.9	2.289	3.161	11.1	19.6
6 20	19 48.30	−33 33.6	2.239	3.179	8.3	19.4
6 30	19 39.80	−33 58.6	2.213	3.197	5.5	19.3
7 10	19 30.28	−34 14.1	2.214	3.214	3.9	19.2
7 20	19 20.67	−34 18.0	2.243	3.232	5.0	19.3
7 30	19 11.93	−34 9.6	2.298	3.249	7.5	19.5
8 9	19 4.86	−33 50.5	2.379	3.265	10.1	19.7
8 19	18 59.97	−33 23.2	2.483	3.282	12.5	19.9

387960 2005 GV_{106} 7 12.5 136°.97 2°.5/11.6 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 53.23	−27 29.9	1.950	2.833	12.2	21.4
6 20	19 47.39	−28 0.7	1.884	2.834	8.9	21.2
6 30	19 39.46	−28 30.6	1.841	2.835	5.4	21.0
7 10	19 30.24	−28 55.4	1.825	2.836	2.6	20.8
7 20	19 20.72	−29 11.9	1.835	2.837	4.3	21.0
7 30	19 12.00	−29 18.6	1.872	2.838	7.8	21.2
8 9	19 5.01	−29 15.8	1.934	2.839	11.2	21.4
8 19	19 0.38	−29 4.8	2.017	2.839	14.2	21.6

40169 1998 QG_{105} 7 12.5 343°.73 1°.0/12.0 18

6 10	19 49.27	−22 43.5	1.961	2.847	12.0	18.5
6 20	19 44.52	−23 20.2	1.889	2.842	8.7	18.2
6 30	19 37.84	−24 0.7	1.841	2.838	5.0	18.0
7 10	19 29.92	−24 41.3	1.819	2.834	1.3	17.7
7 20	19 21.64	−25 18.6	1.823	2.830	3.4	17.9
7 30	19 14.01	−25 49.6	1.854	2.827	7.3	18.1
8 9	19 7.91	−26 13.2	1.910	2.824	10.8	18.3
8 19	19 3.97	−26 29.1	1.987	2.822	13.9	18.5

260168 2004 RH_{70} 7 12.5 219°.92 6°.5/ 9.7 18

6 10	19 56.62	−43 1.7	2.575	3.423	10.8	20.5
6 20	19 49.70	−43 43.1	2.508	3.419	8.8	20.4
6 30	19 40.72	−44 13.8	2.465	3.414	7.2	20.3
7 10	19 30.50	−44 29.2	2.447	3.409	6.5	20.2
7 20	19 20.00	−44 26.3	2.457	3.405	7.3	20.2
7 30	19 10.31	−44 5.1	2.492	3.399	9.0	20.3
8 9	19 2.36	−43 27.7	2.551	3.394	11.0	20.5
8 19	18 56.76	−42 37.8	2.631	3.389	12.9	20.6

14581 1998 RT_4 7 12.5 279°.69 12°.6/17.9 18

6 10	19 51.49	+17 28.8	2.399	3.085	15.8	19.3
6 20	19 46.03	+18 9.2	2.291	3.049	14.7	19.1
6 30	19 38.75	+18 25.2	2.200	3.012	13.6	19.0
7 10	19 30.15	+18 12.2	2.128	2.975	12.8	18.9
7 20	19 20.93	+17 27.5	2.079	2.937	12.6	18.8
7 30	19 11.95	+16 11.2	2.051	2.898	13.2	18.7
8 9	19 4.07	+14 27.1	2.046	2.859	14.4	18.7
8 19	18 57.99	+12 21.6	2.062	2.818	16.0	18.8

83092 2001 QZ_{232} 7 12.5 238°.98 0°.4/12.3 18

6 10	19 51.71	−22 19.4	2.120	2.999	11.6	19.9
6 20	19 46.13	−22 34.3	2.046	2.995	8.4	19.7
6 30	19 38.70	−22 51.8	1.995	2.990	4.8	19.5
7 10	19 30.11	−23 9.2	1.970	2.986	1.0	19.2
7 20	19 21.21	−23 24.3	1.974	2.982	3.1	19.4
7 30	19 12.94	−23 35.4	2.004	2.977	6.8	19.6
8 9	19 6.16	−23 41.8	2.060	2.972	10.3	19.8
8 19	19 1.46	−23 43.6	2.139	2.968	13.2	20.0

383261 2006 DE_{20} 7 12.5 315°.63 1°.6/13.1 17

6 10	19 51.35	−15 59.0	1.703	2.582	13.9	21.4
6 20	19 46.19	−16 21.1	1.633	2.580	10.3	21.2
6 30	19 38.87	−16 53.1	1.585	2.578	6.2	20.9
7 10	19 30.17	−17 32.3	1.562	2.576	2.2	20.7
7 20	19 21.07	−18 15.4	1.566	2.574	3.6	20.8
7 30	19 12.70	−18 58.8	1.595	2.572	7.8	21.0
8 9	19 6.06	−19 39.5	1.649	2.571	11.8	21.3
8 19	19 1.84	−20 15.8	1.724	2.569	15.2	21.5

29572 1998 FH_{30} 7 12.5 217°.66 4°.8/14.7 18

6 10	19 49.17	− 6 21.0	2.354	3.190	12.0	18.9
6 20	19 44.07	− 6 10.7	2.275	3.186	9.6	18.7
6 30	19 37.44	− 6 12.8	2.219	3.182	7.0	18.6
7 10	19 29.86	− 6 27.4	2.188	3.178	5.1	18.4
7 20	19 22.00	− 6 53.7	2.185	3.173	5.2	18.4
7 30	19 14.62	− 7 29.5	2.209	3.168	7.2	18.6
8 9	19 8.43	− 8 12.2	2.258	3.163	9.8	18.7
8 19	19 3.93	− 8 58.8	2.331	3.158	12.3	18.9

445380 2010 RM_{65} 7 12.5 199°.68 17°.9/19.8 18

6 10	19 54.98	+15 28.9	1.307	2.063	23.8	21.3
6 20	19 49.36	+16 49.9	1.246	2.061	21.8	21.1
6 30	19 40.94	+17 32.7	1.200	2.059	19.9	21.0
7 10	19 30.64	+17 29.3	1.169	2.055	18.5	20.9
7 20	19 19.72	+16 36.0	1.156	2.052	17.9	20.8
7 30	19 9.67	+14 55.4	1.162	2.047	18.5	20.8
8 9	19 1.83	+12 37.4	1.186	2.042	20.1	20.9
8 19	18 57.08	+ 9 54.9	1.227	2.036	22.2	21.1

398245 2010 RX_{112} 7 12.5 288°.02 4°.7/14.1 18

6 10	19 49.10	− 8 28.2	2.213	3.062	12.3	21.1
6 20	19 44.12	− 8 2.5	2.133	3.054	9.7	20.9
6 30	19 37.52	− 7 47.5	2.076	3.046	6.9	20.7
7 10	19 29.90	− 7 43.9	2.044	3.038	4.9	20.6
7 20	19 21.98	− 7 51.3	2.039	3.030	5.1	20.6
7 30	19 14.56	− 8 8.4	2.060	3.022	7.4	20.7
8 9	19 8.40	− 8 33.0	2.107	3.014	10.3	20.9
8 19	19 4.04	− 9 2.5	2.176	3.007	13.0	21.0

314088 2005 CO_{60} 7 12.5 258°.22 1°.3/12.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 57.14	−24 35.4	1.546	2.432	14.7	21.3
6 20	19 50.83	−24 43.3	1.465	2.418	10.8	21.0
6 30	19 41.76	−24 52.0	1.406	2.403	6.3	20.7
7 10	19 30.81	−24 57.8	1.372	2.387	1.7	20.4
7 20	19 19.24	−24 57.5	1.364	2.372	4.2	20.5
7 30	19 8.53	−24 49.5	1.382	2.355	9.1	20.8
8 9	18 59.99	−24 34.5	1.423	2.339	13.7	21.0
8 19	18 54.46	−24 14.2	1.484	2.322	17.6	21.2

514202 2015 MS_{135} 7 12.5 268°.16 0°.4/12.3 18

6 10	19 50.53	−21 13.7	2.225	3.102	11.2	21.5
6 20	19 45.31	−21 43.6	2.141	3.090	8.1	21.3
6 30	19 38.28	−22 17.8	2.082	3.077	4.7	21.0
7 10	19 30.08	−22 53.5	2.049	3.065	1.0	20.7
7 20	19 21.47	−23 27.6	2.045	3.053	3.0	20.9
7 30	19 13.37	−23 57.7	2.068	3.040	6.7	21.1
8 9	19 6.61	−24 22.4	2.116	3.028	10.1	21.3
8 19	19 1.82	−24 41.2	2.188	3.015	13.0	21.5

388966 2008 TY_{93} 7 12.5 248°.14 1°.6/13.1 18

6 10	19 52.37	−16 22.2	2.039	2.908	12.4	21.9
6 20	19 46.75	−16 33.0	1.952	2.894	9.2	21.7
6 30	19 39.16	−16 51.3	1.889	2.880	5.6	21.4
7 10	19 30.27	−17 15.5	1.851	2.865	2.1	21.2
7 20	19 20.91	−17 43.1	1.842	2.850	3.3	21.2
7 30	19 12.09	−18 11.9	1.860	2.834	7.1	21.4
8 9	19 4.71	−18 39.7	1.903	2.818	10.8	21.6
8 19	18 59.46	−19 5.2	1.969	2.801	14.1	21.8

323625 2004 VC_{57} 7 12.5 236°.06 0°.3/12.7 18

6 10	19 49.41	−18 46.4	2.949	3.813	9.1	21.2
6 20	19 44.13	−19 22.1	2.858	3.800	6.7	21.0
6 30	19 37.48	−20 2.7	2.793	3.786	3.9	20.8
7 10	19 29.92	−20 46.0	2.756	3.772	0.9	20.5
7 20	19 22.04	−21 29.6	2.749	3.757	2.3	20.6
7 30	19 14.50	−22 11.3	2.771	3.742	5.3	20.8
8 9	19 7.91	−22 49.3	2.821	3.727	8.0	21.0
8 19	19 2.78	−23 22.9	2.895	3.711	10.5	21.1

231252 2005 YV_{152} 7 12.5 295°.39 4°.1/10.5 18

6 10	19 53.36	−27 3.6	1.601	2.493	13.9	19.7
6 20	19 48.22	−28 34.3	1.525	2.480	10.3	19.4
6 30	19 40.36	−30 9.3	1.472	2.466	6.5	19.2
7 10	19 30.58	−31 40.8	1.445	2.453	4.1	19.0
7 20	19 20.01	−33 0.8	1.444	2.440	6.2	19.1
7 30	19 10.10	−34 3.5	1.468	2.427	10.2	19.3
8 9	19 2.20	−34 47.0	1.515	2.414	14.1	19.5
8 19	18 57.26	−35 12.7	1.582	2.401	17.5	19.7

65695 1991 SC_{3} 7 12.5 269°.99 4°.7/13.9 18

6 10	19 52.40	−10 36.3	1.595	2.462	15.3	19.6
6 20	19 47.14	−10 21.3	1.515	2.450	11.9	19.4
6 30	19 39.55	−10 19.8	1.456	2.437	8.1	19.1
7 10	19 30.39	−10 32.0	1.422	2.425	5.0	18.9
7 20	19 20.68	−10 56.6	1.412	2.412	5.5	18.9
7 30	19 11.64	−11 30.9	1.428	2.400	9.1	19.1
8 9	19 4.39	−12 11.5	1.467	2.387	13.1	19.3
8 19	18 59.69	−12 54.7	1.527	2.374	16.7	19.5

373150 2012 BG_{55} 7 12.5 38°.19 3°.5/14.1 17

6 10	19 51.37	−10 54.2	1.273	2.156	17.4	20.1
6 20	19 46.63	−11 33.2	1.218	2.163	13.2	19.9
6 30	19 39.30	−12 31.7	1.182	2.171	8.5	19.6
7 10	19 30.33	−13 46.2	1.169	2.179	4.2	19.4
7 20	19 20.96	−15 10.5	1.181	2.188	4.8	19.5
7 30	19 12.61	−16 37.4	1.217	2.197	9.2	19.8
8 9	19 6.45	−18 0.6	1.275	2.206	13.7	20.0
8 19	19 3.21	−19 15.5	1.354	2.216	17.6	20.3

442145 2010 VZ_{48} 7 12.5 225°.28 1°.7/13.1 18

6 10	19 50.31	−16 43.0	2.505	3.370	10.5	20.7
6 20	19 44.83	−16 27.6	2.427	3.366	7.8	20.5
6 30	19 37.87	−16 16.7	2.374	3.363	4.8	20.3
7 10	19 30.01	−16 9.7	2.348	3.359	2.0	20.1
7 20	19 21.92	−16 5.9	2.350	3.356	2.9	20.2
7 30	19 14.37	−16 4.4	2.380	3.352	6.0	20.4
8 9	19 8.00	−16 4.4	2.437	3.348	8.9	20.6
8 19	19 3.33	−16 5.3	2.517	3.344	11.5	20.7

146100 2000 PM_{26} 7 12.5 294°.15 2°.8/13.1 18

6 10	19 51.82	−15 26.9	2.056	2.923	12.4	19.3
6 20	19 46.33	−14 53.2	1.963	2.902	9.3	19.1
6 30	19 38.93	−14 24.7	1.893	2.880	6.0	18.9
7 10	19 30.25	−14 1.5	1.849	2.859	3.1	18.6
7 20	19 21.14	−13 43.7	1.833	2.837	4.0	18.6
7 30	19 12.53	−13 30.9	1.844	2.815	7.4	18.8
8 9	19 5.35	−13 22.6	1.880	2.794	11.0	19.0
8 19	19 0.23	−13 18.0	1.938	2.772	14.2	19.2

269032 2007 FL_{15} 7 12.5 44°.97 5°.5/14.3 18

6 10	19 51.58	− 9 20.8	1.421	2.292	16.6	20.0
6 20	19 46.42	− 8 56.6	1.369	2.304	12.9	19.8
6 30	19 39.00	− 8 48.5	1.338	2.317	8.9	19.6
7 10	19 30.25	− 8 56.6	1.330	2.330	5.9	19.4
7 20	19 21.29	− 9 19.2	1.346	2.344	6.2	19.5
7 30	19 13.34	− 9 53.2	1.387	2.358	9.3	19.7
8 9	19 7.39	−10 34.2	1.450	2.373	13.0	19.9
8 19	19 4.04	−11 18.1	1.533	2.387	16.3	20.2

25790 2000 CW_{57} 7 12.5 322°.01 5°.0/14.5 18

6 10	19 48.44	− 8 34.2	1.638	2.504	15.0	17.1
6 20	19 44.23	− 8 34.9	1.558	2.490	11.8	16.9
6 30	19 37.86	− 8 52.0	1.498	2.476	8.3	16.6
7 10	19 30.06	− 9 25.5	1.462	2.463	5.4	16.4
7 20	19 21.74	−10 13.3	1.451	2.450	5.6	16.4
7 30	19 14.01	−11 11.8	1.464	2.437	8.8	16.6
8 9	19 7.91	−12 16.1	1.501	2.426	12.5	16.8
8 19	19 4.18	−13 21.7	1.560	2.415	16.0	16.9

123230 2000 UL_{53} 7 12.5 224°.89 0°.5/12.7 18

6 10	19 53.15	−19 10.1	2.152	3.022	11.8	20.4
6 20	19 47.23	−19 29.0	2.068	3.013	8.6	20.2
6 30	19 39.41	−19 53.3	2.009	3.003	5.0	19.9
7 10	19 30.35	−20 20.4	1.977	2.992	1.2	19.6
7 20	19 20.89	−20 47.7	1.973	2.981	3.0	19.8
7 30	19 11.98	−21 13.1	1.997	2.970	6.8	20.0
8 9	19 4.50	−21 35.0	2.046	2.957	10.4	20.2
8 19	18 59.09	−21 52.8	2.118	2.945	13.4	20.4

91198 1998 SS_{137} 7 12.5 266°.54 0°.9/12.1 18

6 10	19 49.93	−23 9.2	2.461	3.337	10.3	19.7
6 20	19 44.75	−23 37.1	2.378	3.326	7.5	19.5
6 30	19 37.92	−24 7.4	2.319	3.315	4.3	19.3
7 10	19 30.05	−24 37.4	2.288	3.303	1.1	19.1
7 20	19 21.83	−25 4.5	2.285	3.292	2.9	19.2
7 30	19 14.08	−25 26.7	2.310	3.280	6.2	19.4
8 9	19 7.57	−25 43.2	2.361	3.268	9.3	19.6
8 19	19 2.85	−25 53.8	2.435	3.256	12.0	19.7

83572 2001 SS_{225} 7 12.5 233°.46 0°.9/12.9 18

6 10	19 50.87	−18 21.4	2.091	2.966	11.9	20.1
6 20	19 45.53	−18 32.6	2.018	2.964	8.7	19.9
6 30	19 38.39	−18 49.5	1.969	2.962	5.1	19.7
7 10	19 30.14	−19 9.9	1.946	2.961	1.5	19.4
7 20	19 21.60	−19 31.7	1.950	2.959	3.0	19.5
7 30	19 13.68	−19 52.9	1.982	2.957	6.7	19.7
8 9	19 7.19	−20 12.0	2.039	2.955	10.2	20.0
8 19	19 2.73	−20 28.1	2.119	2.953	13.1	20.1

391598 2007 UX_{26} 7 12.5 280°.54 7°.6/ 9.4 18

6 10	19 57.48	−40 20.7	1.908	2.775	13.2	20.9
6 20	19 51.12	−41 24.1	1.832	2.758	10.7	20.7
6 30	19 41.97	−42 17.8	1.779	2.741	8.5	20.5
7 10	19 30.93	−42 54.5	1.750	2.724	7.6	20.4
7 20	19 19.25	−43 8.9	1.747	2.707	8.8	20.5
7 30	19 8.43	−42 59.3	1.768	2.690	11.2	20.6
8 9	18 59.81	−42 28.2	1.811	2.673	13.9	20.7
8 19	18 54.22	−41 40.5	1.874	2.656	16.6	20.9

225808 2001 VQ_{98} 7 12.5 202°.32 5°.0/14.7 18

6 10	19 52.06	− 5 57.0	2.286	3.117	12.5	20.7
6 20	19 46.24	− 5 46.6	2.204	3.112	10.0	20.5
6 30	19 38.77	− 5 49.1	2.145	3.107	7.3	20.4
7 10	19 30.24	− 6 4.8	2.113	3.101	5.3	20.2
7 20	19 21.38	− 6 32.7	2.107	3.095	5.4	20.2
7 30	19 13.03	− 7 10.9	2.130	3.087	7.5	20.3
8 9	19 5.93	− 7 56.2	2.178	3.079	10.3	20.5
8 19	19 0.65	− 8 45.6	2.249	3.071	12.9	20.7

293875 2007 RZ_{270} 7 12.5 5°.72 0°.6/12.4 17

6 10	19 51.35	−23 40.8	0.937	1.856	18.8	19.6
6 20	19 47.38	−23 28.7	0.887	1.855	13.8	19.3
6 30	19 40.01	−23 18.6	0.854	1.856	7.9	19.0
7 10	19 30.53	−23 7.4	0.842	1.858	1.7	18.6
7 20	19 20.65	−22 52.4	0.851	1.862	4.9	18.8
7 30	19 12.28	−22 33.1	0.881	1.867	10.9	19.2
8 9	19 6.90	−22 10.3	0.930	1.873	16.3	19.5
8 19	19 5.21	−21 45.3	0.996	1.881	20.7	19.8

38434 1999 RX_{236} 7 12.5 349°.03 8°.8/17.8 18

6 10	19 47.69	+ 5 36.9	2.133	2.919	14.8	18.3
6 20	19 43.16	+ 5 45.5	2.059	2.917	12.8	18.1
6 30	19 37.03	+ 5 31.9	2.005	2.915	10.7	18.0
7 10	19 29.89	+ 4 54.7	1.973	2.914	9.2	17.9
7 20	19 22.46	+ 3 54.7	1.966	2.913	8.8	17.9
7 30	19 15.54	+ 2 35.0	1.983	2.912	9.8	17.9
8 9	19 9.89	+ 1 0.9	2.025	2.911	11.7	18.1
8 19	19 6.03	− 0 41.5	2.090	2.911	13.8	18.2

442022 2010 OO_{104} 7 12.5 250°.06 0°.9/12.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 50.05	−22 27.7	2.400	3.276	10.5	21.0
6 20	19 44.86	−23 9.1	2.322	3.271	7.6	20.8
6 30	19 38.02	−23 53.9	2.269	3.265	4.4	20.6
7 10	19 30.10	−24 38.9	2.244	3.259	1.2	20.4
7 20	19 21.84	−25 21.1	2.247	3.253	3.0	20.5
7 30	19 14.08	−25 57.7	2.277	3.247	6.3	20.7
8 9	19 7.58	−26 27.6	2.334	3.241	9.5	20.9
8 19	19 2.90	−26 50.2	2.414	3.235	12.2	21.1

248436 2005 TN_{23} 7 12.5 243°.08 10°.2/ 5.2 18

6 10	20 2.44	−54 0.4	2.551	3.354	12.2	20.5
6 20	19 54.90	−55 38.0	2.493	3.344	11.0	20.4
6 30	19 44.27	−56 59.9	2.458	3.335	10.3	20.3
7 10	19 31.44	−57 58.8	2.447	3.325	10.3	20.3
7 20	19 17.79	−58 29.8	2.459	3.315	11.0	20.3
7 30	19 4.97	−58 32.1	2.493	3.305	12.2	20.4
8 9	18 54.51	−58 8.8	2.547	3.294	13.6	20.5
8 19	18 47.37	−57 25.2	2.618	3.283	15.0	20.6

23919 1998 SV_{134} 7 12.5 325°.44 0°.1/12.6 18

6 10	19 48.80	−20 25.6	1.854	2.741	12.6	17.7
6 20	19 44.39	−20 41.8	1.770	2.723	9.2	17.4
6 30	19 37.93	−21 3.3	1.709	2.706	5.3	17.2
7 10	19 30.10	−21 27.6	1.673	2.689	1.1	16.8
7 20	19 21.81	−21 51.8	1.663	2.672	3.2	17.0
7 30	19 14.08	−22 13.6	1.679	2.656	7.5	17.2
8 9	19 7.91	−22 31.4	1.720	2.641	11.4	17.4
8 19	19 3.99	−22 44.4	1.781	2.627	14.8	17.6

116947 2004 GH_{66} 7 12.5 334°.70 0°.5/12.7 18

6 10	19 50.42	−19 54.2	1.798	2.683	13.0	20.3
6 20	19 45.49	−20 2.3	1.725	2.677	9.5	20.0
6 30	19 38.51	−20 15.5	1.675	2.671	5.5	19.8
7 10	19 30.21	−20 31.5	1.650	2.665	1.3	19.5
7 20	19 21.55	−20 47.8	1.651	2.660	3.3	19.6
7 30	19 13.59	−21 2.5	1.678	2.655	7.5	19.9
8 9	19 7.30	−21 14.3	1.729	2.651	11.3	20.1
8 19	19 3.31	−21 22.7	1.802	2.647	14.7	20.3

172712 2004 BT_{56} 7 12.5 111°.64 0°.5/12.7 17

6 10	19 52.40	−19 32.2	2.205	3.076	11.5	20.8
6 20	19 46.45	−19 42.5	2.145	3.090	8.3	20.6
6 30	19 38.84	−19 56.8	2.109	3.103	4.8	20.4
7 10	19 30.26	−20 13.1	2.100	3.116	1.2	20.1
7 20	19 21.52	−20 29.3	2.120	3.128	2.8	20.3
7 30	19 13.49	−20 43.9	2.167	3.141	6.3	20.6
8 9	19 6.91	−20 55.9	2.240	3.152	9.5	20.8
8 19	19 2.29	−21 4.8	2.336	3.164	12.3	21.0

322087 2010 VQ_{123} 7 12.5 291°.19 6°.4/ 9.2 18

6 10	19 54.04	−39 33.5	2.294	3.159	11.3	20.2
6 20	19 48.13	−40 38.9	2.227	3.153	9.1	20.0
6 30	19 40.05	−41 36.2	2.185	3.147	7.2	19.9
7 10	19 30.55	−42 19.7	2.168	3.142	6.4	19.9
7 20	19 20.62	−42 45.3	2.178	3.136	7.4	19.9
7 30	19 11.40	−42 51.6	2.213	3.131	9.4	20.0
8 9	19 3.91	−42 40.0	2.271	3.125	11.8	20.2
8 19	18 58.84	−42 13.9	2.349	3.120	13.9	20.3

94442 2001 TL_{72} 7 12.5 301°.65 5°.7/13.9 18

6 10	19 51.68	−10 34.2	1.225	2.108	17.9	19.9
6 20	19 47.28	−10 10.6	1.146	2.089	14.0	19.6
6 30	19 39.97	−10 3.6	1.086	2.071	9.7	19.3
7 10	19 30.60	−10 14.3	1.048	2.052	6.1	19.0
7 20	19 20.40	−10 41.7	1.032	2.034	6.7	19.0
7 30	19 10.95	−11 22.8	1.040	2.017	10.9	19.2
8 9	19 3.70	−12 12.7	1.068	2.000	15.7	19.4
8 19	18 59.64	−13 6.2	1.114	1.983	20.1	19.6

361887 2008 FZ_{81} 7 12.5 225°.50 4°.8/14.8 18

6 10	19 48.98	− 5 34.9	2.501	3.332	11.6	21.7
6 20	19 43.93	− 5 27.2	2.418	3.325	9.3	21.5
6 30	19 37.42	− 5 31.7	2.358	3.318	6.9	21.4
7 10	19 30.00	− 5 48.6	2.324	3.311	5.1	21.3
7 20	19 22.28	− 6 17.1	2.318	3.303	5.1	21.2
7 30	19 15.00	− 6 55.3	2.338	3.296	7.0	21.4
8 9	19 8.81	− 7 40.3	2.385	3.287	9.5	21.5
8 19	19 4.22	− 8 29.3	2.455	3.279	11.9	21.6

186340 2002 EO_{58} 7 12.5 7°.56 5°.0/14.7 18

6 10	19 48.22	− 7 4.9	2.011	2.861	13.3	19.9
6 20	19 43.62	− 6 58.1	1.941	2.861	10.5	19.7
6 30	19 37.32	− 7 5.4	1.893	2.862	7.6	19.5
7 10	19 29.98	− 7 26.6	1.869	2.863	5.3	19.4
7 20	19 22.36	− 8 0.4	1.872	2.865	5.4	19.4
7 30	19 15.32	− 8 44.2	1.901	2.866	7.7	19.5
8 9	19 9.65	− 9 34.2	1.954	2.868	10.6	19.7
8 19	19 5.90	−10 27.1	2.030	2.870	13.4	19.9

354516 2004 RK_{44} 7 12.5 359°.79 6°.4/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 46.97	− 5 22.9	1.694	2.550	15.1	20.1
6 20	19 42.97	− 5 5.8	1.627	2.547	12.1	19.9
6 30	19 37.06	− 5 6.2	1.580	2.546	9.1	19.7
7 10	19 29.93	− 5 24.9	1.556	2.546	6.7	19.6
7 20	19 22.48	− 6 0.5	1.557	2.546	6.7	19.6
7 30	19 15.71	− 6 50.1	1.582	2.547	9.0	19.7
8 9	19 10.48	− 7 49.0	1.630	2.549	12.1	19.9
8 19	19 7.43	− 8 52.4	1.700	2.552	15.1	20.1

272601 2005 VA_{135} 7 12.5 110°.49 2°.1/11.8 17

6 10	19 55.05	−25 38.6	1.731	2.616	13.4	21.4
6 20	19 48.89	−26 11.1	1.671	2.623	9.8	21.1
6 30	19 40.45	−26 44.1	1.635	2.631	5.7	20.9
7 10	19 30.62	−27 13.2	1.624	2.638	2.2	20.7
7 20	19 20.52	−27 34.7	1.640	2.645	4.2	20.9
7 30	19 11.36	−27 46.6	1.683	2.652	8.2	21.1
8 9	19 4.15	−27 49.2	1.749	2.659	11.9	21.4
8 19	18 59.54	−27 43.8	1.836	2.665	15.1	21.6

259939 2004 EP_{50} 7 12.5 61°.60 1°.2/12.2 17

6 10	19 55.08	−23 17.4	1.394	2.288	15.5	20.7
6 20	19 49.18	−23 44.0	1.345	2.301	11.2	20.4
6 30	19 40.69	−24 13.5	1.317	2.315	6.4	20.2
7 10	19 30.68	−24 41.3	1.314	2.329	1.7	19.9
7 20	19 20.46	−25 3.4	1.335	2.343	4.2	20.2
7 30	19 11.43	−25 17.5	1.382	2.358	8.9	20.5
8 9	19 4.73	−25 23.4	1.451	2.372	13.1	20.8
8 19	19 0.97	−25 22.1	1.540	2.387	16.7	21.0

422965 2003 EK_{56} 7 12.5 46°.38 2°.2/11.7 17

6 10	19 53.36	−23 16.1	1.347	2.245	15.7	20.4
6 20	19 48.03	−24 21.7	1.304	2.262	11.3	20.1
6 30	19 40.08	−25 31.5	1.282	2.280	6.5	19.9
7 10	19 30.56	−26 38.6	1.284	2.298	2.3	19.7
7 20	19 20.80	−27 36.5	1.311	2.317	4.8	19.9
7 30	19 12.22	−28 21.3	1.363	2.336	9.3	20.2
8 9	19 5.97	−28 51.9	1.437	2.355	13.4	20.5
8 19	19 2.70	−29 9.5	1.531	2.375	16.8	20.8

249553 2010 JV_{136} 7 12.5 354°.40 4°.2/12.3 18

6 10	19 55.39	−33 27.8	1.406	2.300	15.4	18.9
6 20	19 49.63	−33 2.6	1.340	2.293	11.6	18.6
6 30	19 41.04	−32 26.3	1.296	2.287	7.5	18.4
7 10	19 30.76	−31 35.5	1.274	2.283	4.3	18.2
7 20	19 20.25	−30 29.5	1.278	2.280	5.8	18.3
7 30	19 11.05	−29 11.0	1.306	2.278	9.8	18.5
8 9	19 4.38	−27 45.3	1.357	2.277	13.9	18.7
8 19	19 0.87	−26 17.8	1.428	2.278	17.5	19.0

165993 2002 AN_{6} 7 12.5 191°.58 0°.4/12.5 17

6 10	19 57.22	−22 47.3	1.447	2.335	15.4	20.2
6 20	19 50.82	−22 47.3	1.381	2.335	11.2	19.9
6 30	19 41.72	−22 49.6	1.337	2.334	6.5	19.7
7 10	19 30.91	−22 51.0	1.318	2.333	1.4	19.3
7 20	19 19.72	−22 48.9	1.324	2.332	4.0	19.5
7 30	19 9.61	−22 42.1	1.355	2.331	9.0	19.8
8 9	19 1.79	−22 30.8	1.410	2.330	13.5	20.1
8 19	18 56.99	−22 16.4	1.484	2.329	17.3	20.3

523065 2016 QA_{92} 7 12.5 314°.63 0°.1/12.6 18

6 10	19 51.19	−20 35.2	1.795	2.679	13.1	21.5
6 20	19 46.11	−20 53.6	1.720	2.672	9.5	21.2
6 30	19 38.91	−21 17.1	1.669	2.665	5.5	21.0
7 10	19 30.34	−21 42.9	1.643	2.659	1.1	20.7
7 20	19 21.36	−22 7.9	1.643	2.652	3.3	20.8
7 30	19 13.08	−22 29.6	1.670	2.646	7.6	21.1
8 9	19 6.49	−22 46.6	1.720	2.640	11.5	21.3
8 19	19 2.25	−22 58.6	1.792	2.634	14.9	21.5

193633 2001 CY_{39} 7 12.5 281°.91 3°.4/10.8 18

6 10	19 53.36	−26 28.9	1.781	2.668	13.0	19.1
6 20	19 48.02	−27 47.6	1.700	2.652	9.6	18.9
6 30	19 40.21	−29 10.4	1.644	2.637	5.9	18.7
7 10	19 30.65	−30 30.4	1.613	2.622	3.4	18.5
7 20	19 20.38	−31 41.0	1.609	2.607	5.4	18.6
7 30	19 10.68	−32 37.5	1.631	2.592	9.2	18.7
8 9	19 2.78	−33 17.9	1.678	2.576	13.0	18.9
8 19	18 57.53	−33 43.2	1.744	2.561	16.3	19.1

288066 2003 UX_{349} 7 12.5 210°.32 2°.0/11.8 17

6 10	19 56.59	−25 1.3	1.731	2.613	13.6	21.4
6 20	19 50.20	−25 40.3	1.658	2.608	9.9	21.1
6 30	19 41.34	−26 21.4	1.608	2.603	5.8	20.9
7 10	19 30.86	−26 59.7	1.583	2.597	2.2	20.6
7 20	19 19.88	−27 30.6	1.586	2.591	4.3	20.8
7 30	19 9.70	−27 51.4	1.615	2.584	8.5	21.0
8 9	19 1.48	−28 1.7	1.669	2.577	12.5	21.2
8 19	18 55.98	−28 2.9	1.743	2.569	15.9	21.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
92203 1999 XT_{251}			7 12.5 339°.18		0°.2/12.6 18	
	h m	° ′			°	m
6 10	19 49.55	−20 2.9	2.058	2.938	11.8	19.9
6 20	19 44.67	−20 21.5	1.984	2.934	8.6	19.7
6 30	19 37.97	−20 44.8	1.935	2.930	5.0	19.5
7 10	19 30.14	−21 10.6	1.911	2.927	1.1	19.2
7 20	19 21.99	−21 36.1	1.915	2.924	2.9	19.3
7 30	19 14.45	−21 59.3	1.945	2.921	6.8	19.6
8 9	19 8.36	−22 18.6	2.001	2.918	10.3	19.8
8 19	19 4.29	−22 33.5	2.079	2.916	13.3	20.0
442151 2010 VW_{121}			7 12.5 309°.44		4°.9/10.5 15	
6 10	19 52.74	−34 33.9	2.141	3.018	11.5	21.2
6 20	19 47.18	−35 19.7	2.069	3.009	8.8	21.0
6 30	19 39.50	−36 0.1	2.020	3.001	6.2	20.8
7 10	19 30.47	−36 30.1	1.997	2.992	4.9	20.7
7 20	19 21.04	−36 46.2	2.001	2.984	6.0	20.8
7 30	19 12.32	−36 46.9	2.031	2.976	8.7	20.9
8 9	19 5.29	−36 33.2	2.084	2.968	11.5	21.1
8 19	19 0.60	−36 7.7	2.159	2.960	14.1	21.2
89595 2001 XC_{148}			7 12.5 290°.73		1°.7/11.7 18	
6 10	19 51.05	−23 35.1	2.042	2.924	11.8	19.0
6 20	19 45.94	−24 33.1	1.963	2.915	8.6	18.8
6 30	19 38.82	−25 35.3	1.910	2.905	5.0	18.5
7 10	19 30.35	−26 37.3	1.882	2.896	1.8	18.3
7 20	19 21.41	−27 34.4	1.882	2.887	3.8	18.4
7 30	19 13.02	−28 23.0	1.910	2.878	7.5	18.6
8 9	19 6.12	−29 1.2	1.962	2.869	11.0	18.8
8 19	19 1.41	−29 29.0	2.037	2.860	14.0	19.0
43857 1993 VP_{2}			7 12.5 318°.72		13°.4/13.9 18	
6 10	19 50.45	+ 6 56.7	1.710	2.499	17.8	17.2
6 20	19 45.67	+ 8 54.0	1.633	2.482	15.9	17.0
6 30	19 38.74	+10 30.6	1.576	2.465	14.4	16.9
7 10	19 30.35	+11 39.9	1.539	2.449	13.4	16.8
7 20	19 21.39	+12 17.3	1.524	2.433	13.6	16.7
7 30	19 12.97	+12 21.4	1.530	2.417	14.7	16.8
8 9	19 6.11	+11 55.6	1.555	2.402	16.6	16.8
8 19	19 1.56	+11 5.5	1.598	2.388	18.6	17.0
299386 2005 WP_{20}			7 12.5 239°.05		1°.0/12.3 17	
6 10	19 57.58	−23 10.1	1.428	2.316	15.5	21.6
6 20	19 51.32	−23 27.1	1.354	2.308	11.4	21.4
6 30	19 42.17	−23 47.4	1.301	2.298	6.6	21.1
7 10	19 31.07	−24 6.7	1.273	2.288	1.6	20.7
7 20	19 19.35	−24 21.0	1.270	2.278	4.3	20.9
7 30	19 8.58	−24 27.9	1.292	2.268	9.5	21.2
8 9	19 0.12	−24 27.3	1.338	2.257	14.2	21.4
8 19	18 54.84	−24 20.3	1.402	2.245	18.2	21.6
190589 2000 TY_{3}			7 12.5 4°.66		2°.9/11.7 17	
6 10	19 54.83	−27 47.7	1.614	2.504	14.0	20.1
6 20	19 48.98	−28 14.6	1.551	2.504	10.3	19.9
6 30	19 40.63	−28 40.1	1.509	2.504	6.2	19.7
7 10	19 30.72	−28 59.3	1.492	2.504	3.0	19.5
7 20	19 20.46	−29 8.7	1.501	2.504	4.9	19.6
7 30	19 11.17	−29 6.8	1.536	2.505	8.9	19.8
8 9	19 4.00	−28 54.4	1.594	2.505	12.8	20.1
8 19	18 59.62	−28 33.8	1.672	2.506	16.1	20.3
342232 2008 SC_{269}			7 12.5 338°.92		1°.8/12.3 16	
6 10	19 53.30	−27 4.9	1.292	2.194	15.9	19.5
6 20	19 48.36	−26 47.1	1.221	2.181	11.7	19.2
6 30	19 40.49	−26 25.5	1.170	2.169	6.9	18.9
7 10	19 30.72	−25 57.2	1.143	2.158	2.2	18.6
7 20	19 20.45	−25 20.6	1.139	2.147	4.6	18.7
7 30	19 11.29	−24 36.3	1.159	2.138	9.8	19.0
8 9	19 4.59	−23 47.0	1.201	2.130	14.5	19.3
8 19	19 1.14	−22 55.9	1.262	2.124	18.6	19.5
310605 2001 XF_{135}			7 12.6 295°.15		3°.6/13.2 18	
6 10	19 54.00	−15 33.3	1.271	2.160	17.0	20.4
6 20	19 49.01	−15 3.3	1.187	2.138	12.9	20.1
6 30	19 41.01	−14 42.3	1.124	2.116	8.3	19.8
7 10	19 30.87	−14 30.4	1.083	2.094	4.0	19.4
7 20	19 19.87	−14 27.1	1.066	2.072	5.4	19.5
7 30	19 9.62	−14 31.0	1.072	2.051	10.4	19.7
8 9	19 1.63	−14 40.3	1.100	2.029	15.5	19.9
8 19	18 56.88	−14 52.9	1.145	2.008	20.1	20.1
472183 2014 DX_{104}			7 12.6 167°.35		1°.8/13.3 18	
6 10	19 51.57	−15 19.8	2.224	3.088	11.7	22.0
6 20	19 45.94	−15 33.1	2.152	3.091	8.7	21.8
6 30	19 38.64	−15 53.8	2.105	3.094	5.3	21.6
7 10	19 30.30	−16 20.3	2.084	3.096	2.2	21.4
7 20	19 21.69	−16 50.4	2.091	3.098	3.1	21.5
7 30	19 13.68	−17 21.8	2.126	3.099	6.4	21.7
8 9	19 7.01	−17 52.5	2.187	3.101	9.7	21.9
8 19	19 2.24	−18 21.0	2.271	3.101	12.5	22.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
18620 1998 DS_{10}			7 12.6 213°.83		0°.2/12.5 17	
	h m	° ′			°	m
6 10	19 56.93	−20 49.1	2.129	2.996	12.0	20.9
6 20	19 50.08	−21 15.1	2.043	2.986	8.8	20.7
6 30	19 41.16	−21 45.5	1.981	2.975	5.1	20.5
7 10	19 30.85	−22 17.0	1.947	2.963	1.0	20.2
7 20	19 20.06	−22 46.5	1.942	2.950	3.1	20.3
7 30	19 9.84	−23 11.7	1.966	2.936	7.1	20.5
8 9	19 1.15	−23 31.4	2.015	2.921	10.8	20.7
8 19	18 54.69	−23 45.4	2.088	2.905	13.9	20.9
347501 1998 SH_{50}			7 12.6 304°.89		7°.4/ 9.6 18	
6 10	19 55.72	−37 17.3	1.674	2.555	14.0	20.2
6 20	19 50.24	−38 23.6	1.588	2.527	11.1	19.9
6 30	19 41.73	−39 23.4	1.524	2.499	8.5	19.7
7 10	19 31.03	−40 8.5	1.484	2.471	7.4	19.6
7 20	19 19.43	−40 32.2	1.469	2.443	8.8	19.6
7 30	19 8.56	−40 31.4	1.478	2.415	11.8	19.7
8 9	18 59.95	−40 7.7	1.508	2.388	15.2	19.8
8 19	18 54.60	−39 25.8	1.556	2.361	18.4	20.0
499677 2010 VT_{204}			7 12.6 236°.15		4°.9/10.9 17	
6 10	19 57.76	−31 35.4	1.611	2.496	14.3	21.8
6 20	19 51.38	−32 27.2	1.541	2.489	10.7	21.6
6 30	19 42.17	−33 15.3	1.493	2.481	7.1	21.4
7 10	19 31.09	−33 53.0	1.470	2.474	4.9	21.2
7 20	19 19.44	−34 14.8	1.473	2.466	6.5	21.3
7 30	19 8.75	−34 18.4	1.501	2.458	10.2	21.5
8 9	19 0.33	−34 5.5	1.552	2.449	13.9	21.7
8 19	18 55.03	−33 39.7	1.623	2.441	17.2	21.9
383906 2008 ST_{75}			7 12.6 95°.10		2°.3/13.3 17	
6 10	19 52.93	−15 20.0	1.766	2.639	13.8	21.1
6 20	19 47.19	−15 18.7	1.705	2.648	10.2	20.9
6 30	19 39.44	−15 26.0	1.667	2.657	6.3	20.7
7 10	19 30.48	−15 40.4	1.654	2.665	2.7	20.5
7 20	19 21.29	−15 59.8	1.667	2.674	3.7	20.6
7 30	19 12.92	−16 21.9	1.707	2.682	7.6	20.8
8 9	19 6.28	−16 44.6	1.771	2.691	11.2	21.1
8 19	19 1.96	−17 6.4	1.858	2.699	14.4	21.3
4656 Huchra			7 12.6 242°.49		0°.9/12.2 18	
6 10	19 52.36	−23 23.4	2.101	2.980	11.7	18.1
6 20	19 46.73	−23 42.3	2.025	2.974	8.5	17.9
6 30	19 39.19	−24 3.2	1.973	2.968	4.9	17.7
7 10	19 30.44	−24 23.2	1.947	2.962	1.2	17.4
7 20	19 21.35	−24 39.7	1.949	2.956	3.2	17.5
7 30	19 12.90	−24 50.9	1.978	2.950	7.0	17.7
8 9	19 5.95	−24 56.4	2.033	2.944	10.4	17.9
8 19	19 1.13	−24 56.4	2.109	2.937	13.4	18.1
98218 2000 SG_{142}			7 12.6 213°.02		0°.6/12.4 18	
6 10	19 57.55	−23 25.9	1.506	2.393	15.0	18.9
6 20	19 51.03	−23 21.8	1.438	2.390	11.0	18.7
6 30	19 41.86	−23 18.9	1.391	2.388	6.3	18.4
7 10	19 31.01	−23 14.2	1.369	2.385	1.4	18.1
7 20	19 19.77	−23 5.5	1.373	2.382	3.9	18.2
7 30	19 9.56	−22 51.8	1.403	2.378	8.8	18.5
8 9	19 1.58	−22 34.0	1.456	2.375	13.2	18.8
8 19	18 56.57	−22 13.4	1.529	2.371	17.0	19.0
438632 2008 AV_{94}			7 12.6 79°.59		2°.4/11.9 18	
6 10	19 55.20	−29 17.8	2.073	2.950	11.9	20.9
6 20	19 48.68	−29 17.4	2.009	2.956	8.7	20.7
6 30	19 40.22	−29 13.0	1.970	2.962	5.3	20.5
7 10	19 30.64	−29 2.0	1.957	2.968	2.5	20.3
7 20	19 20.91	−28 42.8	1.972	2.974	4.0	20.4
7 30	19 12.07	−28 15.5	2.014	2.980	7.3	20.6
8 9	19 4.97	−27 41.6	2.081	2.986	10.5	20.8
8 19	19 0.14	−27 3.5	2.171	2.992	13.3	21.0
397762 2008 GJ_{13}			7 12.6 358°.12		6°.7/10.2 18	
6 10	19 54.52	−38 47.8	1.905	2.779	12.9	20.3
6 20	19 48.71	−39 36.8	1.845	2.778	10.2	20.1
6 30	19 40.47	−40 15.8	1.807	2.777	7.8	20.0
7 10	19 30.72	−40 39.3	1.794	2.776	6.7	19.9
7 20	19 20.65	−40 43.3	1.806	2.776	7.7	20.0
7 30	19 11.55	−40 27.2	1.842	2.776	10.1	20.1
8 9	19 4.52	−39 53.6	1.902	2.777	12.8	20.3
8 19	19 0.22	−39 6.7	1.982	2.778	15.3	20.4
249657 1999 UF_{45}			7 12.6 284°.02		4°.9/13.8 18	
6 10	19 50.58	− 8 30.1	2.319	3.162	12.0	20.4
6 20	19 45.30	− 7 49.4	2.223	3.140	9.5	20.1
6 30	19 38.35	− 7 17.6	2.150	3.117	6.9	19.9
7 10	19 30.29	− 6 56.2	2.104	3.095	5.1	19.8
7 20	19 21.82	− 6 45.4	2.084	3.072	5.4	19.8
7 30	19 13.76	− 6 45.1	2.092	3.049	7.7	19.9
8 9	19 6.87	− 6 53.8	2.124	3.026	10.5	20.0
8 19	19 1.75	− 7 9.4	2.180	3.003	13.2	20.1

437458 2013 YJ_{17} 7 12.6 202.°00 0.°8/12.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 52.47	−18 18.2	1.981	2.855	12.5	21.7
6 20	19 46.84	−18 34.1	1.908	2.853	9.1	21.5
6 30	19 39.27	−18 56.2	1.858	2.851	5.4	21.3
7 10	19 30.48	−19 22.1	1.834	2.849	1.5	21.0
7 20	19 21.34	−19 49.2	1.838	2.847	3.1	21.1
7 30	19 12.86	−20 15.2	1.869	2.844	7.0	21.3
8 9	19 5.93	−20 38.3	1.925	2.841	10.7	21.6
8 19	19 1.16	−20 57.8	2.004	2.838	13.8	21.8

451386 2011 BY_{63} 7 12.6 357.°63 14.°8/12.6 17

6 10	20 14.64	−50 25.2	1.003	1.868	22.4	20.0
6 20	20 5.58	−51 0.6	0.954	1.867	19.3	19.8
6 30	19 50.86	−51 2.8	0.921	1.866	16.5	19.7
7 10	19 32.86	−50 17.1	0.907	1.866	14.9	19.6
7 20	19 14.97	−48 38.2	0.912	1.866	15.5	19.6
7 30	19 0.46	−46 13.7	0.937	1.866	17.8	19.7
8 9	18 51.25	−43 20.9	0.981	1.867	21.0	19.9
8 19	18 47.67	−40 17.5	1.041	1.868	24.2	20.2

501972 2014 YE_{24} 7 12.6 161.°92 1.°9/12.0 17

6 10	19 58.24	−26 10.0	1.778	2.657	13.4	21.9
6 20	19 51.19	−26 25.5	1.714	2.662	9.8	21.7
6 30	19 41.80	−26 40.2	1.672	2.667	5.7	21.5
7 10	19 31.00	−26 50.2	1.657	2.671	2.1	21.3
7 20	19 19.92	−26 52.6	1.669	2.674	4.1	21.4
7 30	19 9.81	−26 46.4	1.708	2.677	8.1	21.7
8 9	19 1.71	−26 32.6	1.772	2.680	11.9	21.9
8 19	18 56.27	−26 13.0	1.857	2.681	15.1	22.1

132977 2002 TM_{177} 7 12.6 261.°89 15.°1/10.6 18

6 10	20 14.90	−50 14.4	1.113	1.971	21.1	19.7
6 20	20 6.06	−51 20.3	1.055	1.961	18.4	19.5
6 30	19 51.46	−51 58.3	1.014	1.951	16.1	19.4
7 10	19 33.08	−51 52.0	0.992	1.941	15.1	19.3
7 20	19 14.09	−50 52.4	0.989	1.931	15.9	19.3
7 30	18 58.00	−49 2.9	1.007	1.920	18.3	19.4
8 9	18 47.12	−46 37.6	1.043	1.910	21.5	19.5
8 19	18 42.13	−43 53.6	1.095	1.899	24.6	19.7

70171 1999 OL_2 7 12.6 199.°16 5.°4/11.4 18

6 10	20 5.85	−38 23.9	2.181	3.032	12.3	19.0
6 20	19 56.56	−38 36.9	2.104	3.028	9.6	18.9
6 30	19 44.82	−38 38.5	2.053	3.023	7.0	18.7
7 10	19 31.61	−38 23.8	2.028	3.017	5.5	18.6
7 20	19 18.19	−37 50.4	2.032	3.010	6.4	18.6
7 30	19 5.87	−36 59.2	2.064	3.002	8.9	18.8
8 9	18 55.74	−35 54.2	2.122	2.994	11.8	18.9
8 19	18 48.44	−34 40.7	2.203	2.984	14.4	19.1

157348 2004 TX_{67} 7 12.6 171.°55 3.°2/10.8 18

6 10	19 51.58	−30 15.4	2.544	3.419	10.0	19.7
6 20	19 45.99	−31 7.9	2.476	3.420	7.4	19.6
6 30	19 38.71	−31 58.4	2.433	3.421	4.8	19.4
7 10	19 30.36	−32 42.9	2.417	3.421	3.2	19.3
7 20	19 21.71	−33 18.3	2.430	3.422	4.4	19.4
7 30	19 13.61	−33 42.5	2.471	3.422	7.0	19.6
8 9	19 6.83	−33 55.4	2.537	3.423	9.6	19.7
8 19	19 1.94	−33 58.3	2.625	3.423	11.9	19.9

395485 2011 UX_{55} 7 12.6 292.°55 4.°1/10.6 18

6 10	19 52.53	−30 51.9	2.048	2.930	11.8	20.4
6 20	19 47.11	−31 49.9	1.975	2.922	8.8	20.2
6 30	19 39.55	−32 45.9	1.925	2.913	5.8	20.0
7 10	19 30.56	−33 34.7	1.901	2.904	4.1	19.9
7 20	19 21.11	−34 11.8	1.905	2.896	5.5	20.0
7 30	19 12.31	−34 34.7	1.934	2.887	8.5	20.1
8 9	19 5.16	−34 43.4	1.988	2.879	11.6	20.3
8 19	19 0.36	−34 39.6	2.063	2.871	14.4	20.5

326373 2000 XT_{14} 7 12.6 163.°94 5.°3/13.3 17

6 10	19 59.89	−10 13.0	1.950	2.791	14.0	20.8
6 20	19 52.01	− 9 3.6	1.880	2.797	10.9	20.6
6 30	19 42.13	− 8 2.7	1.834	2.803	7.7	20.4
7 10	19 31.07	− 7 12.3	1.815	2.808	5.5	20.3
7 20	19 19.78	− 6 33.9	1.825	2.813	6.0	20.3
7 30	19 9.34	− 6 8.0	1.862	2.816	8.7	20.5
8 9	19 0.62	− 5 53.6	1.925	2.819	11.8	20.7
8 19	18 54.23	− 5 48.8	2.010	2.820	14.6	20.9

351010 2003 QA_{28} 7 12.6 277.°43 1.°2/12.3 18

6 10	19 56.11	−25 43.5	1.873	2.753	12.8	20.9
6 20	19 49.75	−25 33.2	1.785	2.734	9.4	20.7
6 30	19 41.08	−25 21.2	1.720	2.715	5.5	20.4
7 10	19 30.89	−25 4.7	1.682	2.697	1.6	20.1
7 20	19 20.21	−24 42.4	1.670	2.678	3.6	20.2
7 30	19 10.26	−24 13.8	1.686	2.658	7.9	20.4
8 9	19 2.11	−23 40.3	1.727	2.639	11.9	20.6
8 19	18 56.49	−23 3.9	1.789	2.620	15.3	20.8

224194 2005 RL_{13} 7 12.6 314.°54 2.°1/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 51.50	−23 58.7	1.282	2.186	15.9	20.0
6 20	19 47.42	−24 36.9	1.197	2.158	11.8	19.7
6 30	19 40.26	−25 21.2	1.131	2.130	6.9	19.3
7 10	19 30.80	−26 6.2	1.088	2.103	2.4	19.0
7 20	19 20.33	−26 45.8	1.069	2.077	5.2	19.1
7 30	19 10.54	−27 15.0	1.073	2.051	10.6	19.3
8 9	19 3.04	−27 32.0	1.098	2.026	15.8	19.5
8 19	18 58.94	−27 37.3	1.141	2.001	20.3	19.7

175139 2005 EM_9 7 12.6 95.°52 1.°7/13.0 17

6 10	19 55.86	−17 23.0	1.473	2.355	15.5	20.9
6 20	19 49.61	−17 25.5	1.419	2.368	11.4	20.6
6 30	19 40.93	−17 36.2	1.387	2.381	6.8	20.4
7 10	19 30.83	−17 52.5	1.379	2.393	2.3	20.1
7 20	19 20.52	−18 11.7	1.397	2.406	3.9	20.3
7 30	19 11.29	−18 31.3	1.441	2.418	8.4	20.6
8 9	19 4.20	−18 49.4	1.508	2.430	12.6	20.9
8 19	18 59.89	−19 5.0	1.595	2.442	16.2	21.1

164765 1998 XM_1 7 12.6 326.°93 4.°9/13.5 18

6 10	19 48.43	−13 1.9	1.344	2.233	16.3	19.8
6 20	19 44.83	−12 22.7	1.254	2.202	12.6	19.5
6 30	19 38.58	−11 53.9	1.184	2.172	8.6	19.1
7 10	19 30.43	−11 37.1	1.135	2.142	5.2	18.9
7 20	19 21.46	−11 32.7	1.110	2.113	6.1	18.8
7 30	19 13.06	−11 40.0	1.108	2.086	10.3	19.0
8 9	19 6.59	−11 56.6	1.127	2.060	15.0	19.2
8 19	19 3.03	−12 19.5	1.164	2.035	19.3	19.3

382222 2012 QV_{47} 7 12.6 332.°56 0.°4/12.4 17

6 10	19 51.78	−21 29.3	1.472	2.367	14.8	20.9
6 20	19 46.96	−21 50.3	1.403	2.359	10.8	20.7
6 30	19 39.62	−22 16.8	1.354	2.352	6.2	20.4
7 10	19 30.61	−22 45.0	1.330	2.346	1.3	20.1
7 20	19 21.11	−23 11.2	1.330	2.340	3.9	20.2
7 30	19 12.46	−23 32.4	1.356	2.334	8.8	20.5
8 9	19 5.86	−23 47.1	1.404	2.329	13.2	20.7
8 19	19 2.07	−23 55.3	1.472	2.325	17.0	21.0

42066 2000 YF_{129} 7 12.6 294.°94 3.°3/11.5 18

6 10	19 54.68	−26 44.2	1.368	2.265	15.5	18.9
6 20	19 49.53	−27 30.7	1.292	2.249	11.5	18.6
6 30	19 41.34	−28 19.4	1.237	2.233	7.0	18.3
7 10	19 31.01	−29 3.8	1.206	2.218	3.4	18.1
7 20	19 19.89	−29 37.6	1.199	2.202	5.7	18.2
7 30	19 9.64	−29 57.0	1.216	2.186	10.5	18.4
8 9	19 1.76	−30 1.7	1.254	2.171	15.1	18.6
8 19	18 57.21	−29 53.9	1.312	2.156	19.1	18.8

91191 1998 SE_{55} 7 12.6 100.°10 6.°1/10.2 18

6 10	19 55.99	−40 37.4	2.385	3.243	11.2	17.9
6 20	19 49.34	−41 16.7	2.327	3.248	8.9	17.8
6 30	19 40.66	−41 46.0	2.293	3.253	7.0	17.7
7 10	19 30.79	−42 0.6	2.284	3.258	6.1	17.6
7 20	19 20.71	−41 58.0	2.302	3.264	6.9	17.7
7 30	19 11.52	−41 38.1	2.347	3.268	8.8	17.8
8 9	19 4.10	−41 3.1	2.415	3.273	11.0	18.0
8 19	18 59.03	−40 16.6	2.504	3.278	13.1	18.1

162406 2000 DV_{93} 7 12.6 193.°19 4.°8/10.9 18

6 10	19 57.44	−35 41.5	2.235	3.102	11.5	20.2
6 20	19 50.44	−36 10.5	2.166	3.101	8.8	20.0
6 30	19 41.33	−36 32.1	2.121	3.099	6.2	19.9
7 10	19 30.94	−36 41.9	2.103	3.097	4.8	19.8
7 20	19 20.28	−36 37.0	2.112	3.094	5.8	19.8
7 30	19 10.46	−36 17.2	2.148	3.092	8.3	20.0
8 9	19 2.43	−35 44.4	2.209	3.088	11.1	20.2
8 19	18 56.80	−35 2.0	2.291	3.085	13.6	20.3

93325 2000 SB_{226} 7 12.6 339.°82 10.°9/ 6.4 18

6 10	19 46.69	−35 55.2	1.046	1.963	17.5	18.0
6 20	19 44.81	−38 24.4	0.981	1.939	14.1	17.7
6 30	19 39.20	−40 53.1	0.935	1.916	11.5	17.5
7 10	19 30.66	−43 5.7	0.911	1.895	11.1	17.4
7 20	19 20.79	−44 47.3	0.906	1.876	13.4	17.4
7 30	19 11.88	−45 48.8	0.921	1.859	17.1	17.6
8 9	19 6.10	−46 9.9	0.953	1.844	21.0	17.8
8 19	19 4.81	−45 56.3	0.998	1.832	24.5	17.9

74002 1998 FL_{47} 7 12.6 13.°40 1.°0/12.4 18

6 10	19 50.50	−23 32.8	0.955	1.874	18.5	18.0
6 20	19 46.72	−23 35.5	0.910	1.878	13.5	17.7
6 30	19 39.66	−23 41.3	0.883	1.884	7.8	17.5
7 10	19 30.63	−23 46.2	0.876	1.891	1.8	17.1
7 20	19 21.29	−23 46.6	0.890	1.900	4.8	17.4
7 30	19 13.44	−23 40.7	0.926	1.911	10.6	17.7
8 9	19 8.47	−23 29.0	0.981	1.922	15.7	18.0
8 19	19 7.05	−23 12.4	1.053	1.936	20.0	18.3

1913 Sekanina 7 12.6 265°.78 0°.8/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 52.14	−23 8.1	2.058	2.938	11.8	16.2
6 20	19 46.64	−23 25.6	1.981	2.931	8.6	16.0
6 30	19 39.20	−23 45.4	1.927	2.923	5.0	15.8
7 10	19 30.53	−24 4.5	1.900	2.916	1.2	15.5
7 20	19 21.49	−24 20.5	1.900	2.908	3.2	15.6
7 30	19 13.08	−24 31.5	1.928	2.900	7.1	15.9
8 9	19 6.20	−24 36.9	1.980	2.893	10.6	16.1
8 19	19 1.47	−24 37.0	2.055	2.885	13.7	16.3

13180 Fourcroy 7 12.6 216°.46 2°.8/13.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 49.18	−12 15.2	2.650	3.502	10.4	19.1
6 20	19 44.05	−12 8.2	2.569	3.497	7.9	18.9
6 30	19 37.53	−12 8.6	2.513	3.493	5.2	18.7
7 10	19 30.16	−12 16.0	2.483	3.488	3.0	18.6
7 20	19 22.55	−12 29.4	2.482	3.483	3.4	18.6
7 30	19 15.38	−12 47.5	2.509	3.478	5.9	18.8
8 9	19 9.28	−13 8.6	2.562	3.472	8.6	18.9
8 19	19 4.72	−13 31.2	2.639	3.466	11.1	19.1

515820 2015 MX_{90} 7 12.6 257°.46 9°.2/17.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 48.00	+12 5.3	2.895	3.615	12.7	21.7
6 20	19 43.19	+12 34.7	2.802	3.596	11.5	21.5
6 30	19 37.07	+12 45.5	2.729	3.578	10.3	21.4
7 10	19 30.08	+12 35.3	2.677	3.559	9.4	21.3
7 20	19 22.78	+12 3.6	2.650	3.539	9.2	21.3
7 30	19 15.78	+11 11.2	2.647	3.520	9.7	21.3
8 9	19 9.69	+10 1.2	2.667	3.500	10.9	21.3
8 19	19 4.99	+ 8 37.8	2.710	3.479	12.3	21.4

221732 2007 EG_{75} 7 12.6 295°.69 6°.6/15.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 47.85	− 1 20.7	2.313	3.131	12.8	20.3
6 20	19 43.27	− 0 57.1	2.231	3.122	10.6	20.1
6 30	19 37.18	− 0 48.7	2.171	3.112	8.5	19.9
7 10	19 30.11	− 0 56.7	2.134	3.103	6.9	19.8
7 20	19 22.72	− 1 21.1	2.124	3.093	6.8	19.8
7 30	19 15.77	− 2 0.1	2.139	3.084	8.3	19.9
8 9	19 9.97	− 2 50.4	2.180	3.075	10.5	20.0
8 19	19 5.84	− 3 48.1	2.242	3.066	12.9	20.1

387918 2004 YD_{27} 7 12.6 216°.48 1°.0/13.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 52.22	−17 6.3	2.223	3.090	11.6	21.4
6 20	19 46.56	−17 28.9	2.141	3.083	8.5	21.2
6 30	19 39.12	−17 58.4	2.084	3.076	5.1	21.0
7 10	19 30.52	−18 32.5	2.054	3.069	1.6	20.7
7 20	19 21.55	−19 8.6	2.052	3.061	2.9	20.8
7 30	19 13.11	−19 44.2	2.079	3.052	6.5	21.0
8 9	19 6.00	−20 17.2	2.131	3.044	9.9	21.2
8 19	19 0.85	−20 46.4	2.206	3.035	12.9	21.4

325976 2010 VF_{162} 7 12.6 289°.40 3°.7/13.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 52.25	−12 26.8	1.413	2.292	16.2	20.8
6 20	19 47.43	−12 32.9	1.335	2.278	12.4	20.6
6 30	19 40.00	−12 54.0	1.276	2.264	8.1	20.3
7 10	19 30.75	−13 29.1	1.241	2.251	4.2	20.0
7 20	19 20.83	−14 15.1	1.231	2.237	5.0	20.0
7 30	19 11.62	−15 7.7	1.245	2.223	9.4	20.2
8 9	19 4.39	−16 2.5	1.282	2.210	13.9	20.5
8 19	19 0.02	−16 55.5	1.338	2.196	18.0	20.7

138941 2001 BU_{28} 7 12.6 89°.26 0°.4/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 56.38	−19 13.1	1.489	2.373	15.3	20.1
6 20	19 49.96	−19 39.1	1.441	2.392	11.1	19.9
6 30	19 41.14	−20 11.9	1.415	2.411	6.4	19.7
7 10	19 30.93	−20 47.6	1.413	2.429	1.4	19.4
7 20	19 20.54	−21 21.9	1.438	2.447	3.6	19.6
7 30	19 11.29	−21 52.0	1.489	2.465	8.3	19.9
8 9	19 4.21	−22 16.3	1.563	2.483	12.4	20.2
8 19	18 59.90	−22 34.4	1.658	2.500	15.8	20.5

358343 2006 VR_{135} 7 12.6 98°.09 0°.2/12.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 51.56	−21 32.3	2.167	3.044	11.4	21.1
6 20	19 46.02	−21 46.3	2.101	3.049	8.3	20.9
6 30	19 38.74	−22 3.3	2.060	3.055	4.7	20.7
7 10	19 30.43	−22 20.9	2.045	3.060	1.0	20.4
7 20	19 21.89	−22 36.7	2.057	3.066	2.9	20.6
7 30	19 14.03	−22 49.3	2.098	3.071	6.5	20.8
8 9	19 7.61	−22 57.9	2.164	3.077	9.8	21.1
8 19	19 3.18	−23 2.4	2.252	3.082	12.6	21.3

280617 2004 XC_{63} 7 12.6 302°.79 0°.8/12.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 52.01	−19 56.0	1.599	2.487	14.2	20.0
6 20	19 47.37	−20 56.9	1.502	2.456	10.5	19.7
6 30	19 40.09	−22 9.4	1.427	2.424	6.1	19.4
7 10	19 30.81	−23 29.0	1.377	2.393	1.4	19.0
7 20	19 20.56	−24 49.1	1.354	2.362	4.1	19.1
7 30	19 10.69	−26 3.4	1.356	2.331	9.2	19.3
8 9	19 2.56	−27 7.5	1.382	2.300	13.9	19.5
8 19	18 57.21	−27 59.3	1.427	2.269	18.0	19.7

480706 2015 PX_{284} 7 12.6 35°.16 2°.8/11.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 51.50	−27 55.4	2.038	2.922	11.7	20.6
6 20	19 46.19	−28 38.4	1.976	2.927	8.6	20.4
6 30	19 38.93	−29 20.5	1.939	2.932	5.2	20.2
7 10	19 30.48	−29 57.5	1.928	2.937	2.8	20.1
7 20	19 21.76	−30 25.8	1.943	2.943	4.4	20.2
7 30	19 13.76	−30 43.6	1.986	2.949	7.6	20.4
8 9	19 7.39	−30 50.6	2.052	2.955	10.8	20.6
8 19	19 3.22	−30 48.3	2.141	2.961	13.5	20.8

186348 2002 ED_{143} 7 12.6 359°.41 4°.4/14.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 48.35	− 8 12.8	2.041	2.894	13.0	19.6
6 20	19 43.78	− 8 15.0	1.969	2.893	10.2	19.4
6 30	19 37.52	− 8 30.7	1.919	2.893	7.1	19.2
7 10	19 30.20	− 8 59.3	1.894	2.892	4.7	19.1
7 20	19 22.59	− 9 39.0	1.896	2.893	4.9	19.1
7 30	19 15.54	−10 27.1	1.924	2.893	7.4	19.3
8 9	19 9.83	−11 19.8	1.977	2.893	10.4	19.5
8 19	19 6.02	−12 13.9	2.052	2.894	13.2	19.6

205528 2001 SU_{118} 7 12.6 242°.86 0°.6/12.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 57.11	−20 9.8	1.497	2.380	15.2	21.0
6 20	19 50.89	−20 9.4	1.419	2.369	11.2	20.7
6 30	19 41.95	−20 14.2	1.363	2.358	6.6	20.4
7 10	19 31.17	−20 21.5	1.331	2.346	1.6	20.1
7 20	19 19.79	−20 28.6	1.325	2.334	3.9	20.2
7 30	19 9.26	−20 33.6	1.345	2.322	9.0	20.5
8 9	19 0.87	−20 35.7	1.388	2.309	13.6	20.7
8 19	18 55.44	−20 35.1	1.451	2.295	17.6	20.9

512148 2015 PR_{178} 7 12.6 2°.99 5°.1/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 53.75	−34 21.4	1.835	2.717	12.9	20.9
6 20	19 48.11	−34 55.6	1.773	2.717	9.8	20.8
6 30	19 40.14	−35 23.0	1.733	2.717	6.8	20.6
7 10	19 30.76	−35 38.4	1.719	2.718	5.1	20.5
7 20	19 21.08	−35 38.7	1.731	2.718	6.3	20.5
7 30	19 12.34	−35 23.1	1.767	2.720	9.2	20.7
8 9	19 5.59	−34 53.6	1.827	2.722	12.3	20.9
8 19	19 1.46	−34 13.6	1.908	2.724	15.1	21.1

38169 1999 JE_{98} 7 12.6 344°.07 1°.8/11.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 48.16	−21 10.2	1.210	2.119	16.3	18.3
6 20	19 44.88	−22 23.2	1.142	2.107	11.9	18.0
6 30	19 38.71	−23 47.8	1.095	2.096	6.9	17.7
7 10	19 30.53	−25 17.0	1.071	2.086	2.1	17.4
7 20	19 21.62	−26 42.2	1.070	2.078	5.0	17.6
7 30	19 13.57	−27 55.9	1.092	2.070	10.3	17.8
8 9	19 7.83	−28 53.9	1.135	2.065	15.2	18.1
8 19	19 5.33	−29 35.0	1.196	2.060	19.3	18.3

218245 2002 XN_{79} 7 12.6 262°.93 1°.9/11.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 55.66	−24 56.1	1.756	2.639	13.4	20.5
6 20	19 49.71	−25 27.5	1.670	2.621	9.8	20.2
6 30	19 41.25	−26 1.2	1.606	2.601	5.8	20.0
7 10	19 31.05	−26 32.8	1.568	2.582	2.1	19.7
7 20	19 20.19	−26 58.0	1.556	2.562	4.2	19.8
7 30	19 9.96	−27 14.1	1.571	2.541	8.6	20.0
8 9	19 1.58	−27 20.5	1.610	2.520	12.7	20.2
8 19	18 55.88	−27 18.3	1.670	2.499	16.3	20.4

120435 3310 $T\text{-}_3$ 7 12.6 193°.75 1°.9/11.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 51.65	−26 59.7	2.523	3.398	10.1	20.3
6 20	19 46.01	−27 28.9	2.450	3.397	7.4	20.1
6 30	19 38.75	−27 57.5	2.403	3.395	4.4	19.9
7 10	19 30.48	−28 22.5	2.382	3.394	2.0	19.8
7 20	19 21.94	−28 41.5	2.390	3.392	3.4	19.9
7 30	19 13.96	−28 53.0	2.426	3.390	6.4	20.1
8 9	19 7.27	−28 56.8	2.488	3.388	9.2	20.2
8 19	19 2.42	−28 53.7	2.573	3.386	11.7	20.4

389185 2009 BQ_{171} 7 12.6 312°.63 1°.9/13.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 50.20	−15 11.1	1.792	2.669	13.5	20.5
6 20	19 45.46	−15 33.5	1.715	2.660	10.0	20.2
6 30	19 38.65	−16 6.4	1.660	2.651	6.1	20.0
7 10	19 30.49	−16 47.5	1.630	2.643	2.4	19.7
7 20	19 21.87	−17 33.6	1.627	2.635	3.5	19.8
7 30	19 13.87	−18 21.1	1.650	2.627	7.5	20.0
8 9	19 7.45	−19 6.8	1.697	2.619	11.4	20.2
8 19	19 3.30	−19 48.5	1.766	2.612	14.8	20.4

368085 2012 TE_{296} 7 12.6 282°.39 3°.6/11.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 10	19 54.39	−29 45.2	1.840	2.724	12.8	20.8
6 20	19 48.57	−30 23.2	1.772	2.721	9.5	20.5
6 30	19 40.45	−30 58.7	1.726	2.717	6.0	20.3
7 10	19 30.86	−31 26.7	1.707	2.714	3.6	20.2
7 20	19 20.89	−31 43.6	1.713	2.711	5.1	20.3
7 30	19 11.74	−31 47.5	1.746	2.708	8.6	20.5
8 9	19 4.46	−31 39.2	1.803	2.705	12.0	20.7
8 19	18 59.76	−31 21.0	1.880	2.701	15.1	20.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
138986 2001 DB_{12}			7 12.6	98°.62	3°.1/11.7	18
	h m	° ′			°	m
6 10	19 59.21	−28 3.1	1.572	2.456	14.6	20.1
6 20	19 52.04	−28 38.3	1.525	2.475	10.6	19.9
6 30	19 42.36	−29 11.1	1.501	2.494	6.4	19.7
7 10	19 31.23	−29 36.1	1.502	2.512	3.2	19.5
7 20	19 19.98	−29 49.5	1.529	2.531	5.0	19.7
7 30	19 9.96	−29 50.2	1.582	2.548	8.9	19.9
8 9	19 2.28	−29 39.7	1.659	2.565	12.6	20.2
8 19	18 57.51	−29 20.8	1.757	2.582	15.8	20.4
295571 2008 SA_{96}			7 12.6	238°.24	2°.2/13.3	18
6 10	19 52.89	−15 18.0	2.113	2.977	12.2	21.2
6 20	19 47.14	−15 15.9	2.027	2.965	9.1	21.0
6 30	19 39.52	−15 21.0	1.965	2.953	5.7	20.8
7 10	19 30.67	−15 32.3	1.929	2.940	2.5	20.5
7 20	19 21.41	−15 48.2	1.921	2.927	3.5	20.6
7 30	19 12.67	−16 6.9	1.940	2.913	7.0	20.8
8 9	19 5.34	−16 26.7	1.985	2.899	10.5	21.0
8 19	19 0.04	−16 46.3	2.052	2.884	13.6	21.1
317369 2002 NP_{60}			7 12.6	22°.62	1°.4/12.9	17
6 10	19 51.72	−18 59.9	1.046	1.954	18.2	20.1
6 20	19 47.32	−18 52.7	1.000	1.962	13.4	19.8
6 30	19 39.93	−18 54.1	0.973	1.972	7.9	19.6
7 10	19 30.75	−19 1.6	0.967	1.982	2.3	19.3
7 20	19 21.32	−19 12.2	0.983	1.994	4.5	19.5
7 30	19 13.26	−19 23.2	1.022	2.006	9.9	19.8
8 9	19 7.84	−19 32.8	1.081	2.020	14.9	20.1
8 19	19 5.73	−19 39.8	1.158	2.035	19.0	20.4
446784 1995 SQ_{12}			7 12.6	308°.70	2°.9/13.7	18
6 10	19 49.55	−13 14.0	1.919	2.788	13.0	21.3
6 20	19 44.87	−13 13.5	1.836	2.775	9.9	21.1
6 30	19 38.28	−13 23.2	1.776	2.762	6.4	20.8
7 10	19 30.42	−13 42.0	1.741	2.749	3.3	20.6
7 20	19 22.14	−14 8.4	1.732	2.737	4.0	20.6
7 30	19 14.40	−14 39.9	1.750	2.725	7.4	20.8
8 9	19 8.11	−15 13.8	1.792	2.713	11.0	21.0
8 19	19 3.91	−15 47.8	1.856	2.701	14.3	21.2
123978 2001 FF_{37}			7 12.6	133°.74	0°.9/13.0	18
6 10	19 50.12	−18 5.9	2.622	3.488	10.1	20.6
6 20	19 44.72	−18 12.2	2.554	3.495	7.4	20.4
6 30	19 37.94	−18 22.8	2.510	3.502	4.3	20.2
7 10	19 30.33	−18 36.2	2.494	3.508	1.4	20.0
7 20	19 22.54	−18 50.8	2.507	3.515	2.5	20.1
7 30	19 15.28	−19 5.4	2.547	3.521	5.5	20.3
8 9	19 9.17	−19 18.9	2.615	3.527	8.4	20.5
8 19	19 4.68	−19 30.5	2.706	3.533	10.8	20.7
11456 Cotto–Figueroa			7 12.6	336°.31	0°.1/12.6	18
6 10	19 50.96	−21 20.8	1.972	2.853	12.2	18.3
6 20	19 45.82	−21 25.0	1.898	2.849	8.9	18.1
6 30	19 38.77	−21 32.4	1.849	2.844	5.1	17.8
7 10	19 30.53	−21 40.9	1.825	2.840	1.1	17.5
7 20	19 21.97	−21 48.4	1.828	2.837	3.0	17.7
7 30	19 14.09	−21 53.4	1.858	2.833	7.0	17.9
8 9	19 7.75	−21 55.4	1.912	2.830	10.6	18.1
8 19	19 3.56	−21 54.2	1.989	2.827	13.7	18.3
26715 South Dakota			7 12.6	240°.42	1°.5/13.2	18
6 10	19 52.00	−16 24.3	2.035	2.905	12.4	19.7
6 20	19 46.56	−16 37.0	1.954	2.897	9.2	19.5
6 30	19 39.22	−16 57.3	1.897	2.888	5.6	19.2
7 10	19 30.64	−17 23.3	1.867	2.880	2.0	19.0
7 20	19 21.67	−17 52.6	1.863	2.871	3.2	19.1
7 30	19 13.26	−18 22.7	1.887	2.862	7.0	19.3
8 9	19 6.30	−18 51.7	1.936	2.853	10.6	19.5
8 19	19 1.43	−19 18.0	2.008	2.844	13.7	19.7
243342 2008 UF_{107}			7 12.6	226°.96	2°.4/11.7	17
6 10	19 54.94	−27 26.8	2.076	2.953	11.8	21.4
6 20	19 48.77	−27 54.4	1.998	2.946	8.7	21.1
6 30	19 40.51	−28 21.2	1.945	2.938	5.2	20.9
7 10	19 30.91	−28 43.2	1.918	2.930	2.5	20.7
7 20	19 20.92	−28 57.4	1.919	2.921	4.1	20.8
7 30	19 11.61	−29 2.1	1.947	2.912	7.6	21.0
8 9	19 3.93	−28 57.6	2.000	2.903	11.0	21.2
8 19	18 58.55	−28 45.3	2.075	2.893	14.0	21.4
53526 2000 AJ_{162}			7 12.6	74°.94	1°.8/12.3	18
6 10	19 58.77	−25 22.5	1.216	2.113	17.1	18.6
6 20	19 52.30	−25 30.1	1.164	2.122	12.4	18.3
6 30	19 42.76	−25 37.7	1.134	2.131	7.2	18.0
7 10	19 31.39	−25 40.7	1.126	2.141	2.2	17.8
7 20	19 19.79	−25 35.7	1.142	2.150	4.8	18.0
7 30	19 9.62	−25 22.0	1.183	2.159	9.9	18.3
8 9	19 2.21	−25 1.2	1.245	2.169	14.6	18.6
8 19	18 58.23	−24 35.7	1.326	2.178	18.5	18.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
295786 2008 UG_{229}			7 12.6	205°.36	3°.0/11.3	17
	h m	° ′			°	m
6 10	19 54.88	−28 58.0	2.187	3.062	11.4	22.0
6 20	19 48.67	−29 39.7	2.113	3.059	8.4	21.8
6 30	19 40.44	−30 19.8	2.064	3.054	5.2	21.6
7 10	19 30.92	−30 54.2	2.042	3.050	3.0	21.5
7 20	19 21.03	−31 19.1	2.047	3.044	4.5	21.6
7 30	19 11.78	−31 32.8	2.080	3.039	7.6	21.7
8 9	19 4.12	−31 35.5	2.138	3.033	10.7	21.9
8 19	18 58.69	−31 28.6	2.218	3.027	13.5	22.1
498048 2007 QX_{10}			7 12.6	343°.65	3°.2/13.4	17
6 10	19 47.38	−15 40.8	0.938	1.853	19.2	20.9
6 20	19 44.70	−15 31.8	0.875	1.840	14.5	20.6
6 30	19 38.79	−15 37.6	0.830	1.828	9.1	20.2
7 10	19 30.65	−15 57.2	0.805	1.818	3.9	19.9
7 20	19 21.76	−16 27.3	0.800	1.810	5.4	19.9
7 30	19 13.96	−17 3.5	0.815	1.803	11.1	20.2
8 9	19 8.85	−17 41.0	0.849	1.798	16.6	20.5
8 19	19 7.36	−18 15.8	0.899	1.794	21.4	20.8
128108 2003 QP_{13}			7 12.6	339°.35	10°.1/17.1	18
6 10	19 44.47	+ 0 32.9	1.232	2.088	19.6	18.5
6 20	19 42.00	+ 0 45.8	1.154	2.068	16.6	18.3
6 30	19 37.02	+ 0 27.7	1.094	2.048	13.4	18.0
7 10	19 30.27	− 0 24.8	1.052	2.031	10.8	17.8
7 20	19 22.81	− 1 51.4	1.032	2.015	10.3	17.7
7 30	19 16.00	− 3 46.4	1.033	2.000	12.3	17.8
8 9	19 11.11	− 5 59.7	1.054	1.987	15.8	18.0
8 19	19 9.07	− 8 19.8	1.095	1.976	19.5	18.2
279486 2010 XM_{4}			7 12.6	288°.93	1°.0/12.9	18
6 10	19 53.18	−17 47.4	1.425	2.313	15.6	20.9
6 20	19 48.27	−18 12.8	1.343	2.295	11.6	20.7
6 30	19 40.62	−18 48.9	1.282	2.278	6.9	20.3
7 10	19 31.04	−19 32.7	1.245	2.260	1.9	20.0
7 20	19 20.68	−20 19.5	1.233	2.243	4.0	20.1
7 30	19 11.02	−21 4.9	1.246	2.225	9.2	20.3
8 9	19 3.38	−21 45.5	1.281	2.208	14.0	20.6
8 19	18 58.72	−22 19.5	1.336	2.191	18.2	20.8
511222 2014 AK_{56}			7 12.6	216°.52	0°.1/12.6	17
6 10	19 54.18	−21 17.2	2.200	3.071	11.5	23.0
6 20	19 48.06	−21 30.5	2.119	3.064	8.4	22.7
6 30	19 40.06	−21 47.0	2.061	3.056	4.9	22.5
7 10	19 30.86	−22 4.2	2.031	3.047	1.0	22.2
7 20	19 21.29	−22 19.8	2.030	3.038	2.9	22.4
7 30	19 12.30	−22 32.1	2.056	3.028	6.7	22.6
8 9	19 4.76	−22 40.4	2.108	3.018	10.2	22.8
8 19	18 59.28	−22 44.6	2.183	3.008	13.2	23.0
215733 2004 CU_{102}			7 12.6	179°.10	1°.6/13.0	18
6 10	19 55.79	−18 6.5	1.697	2.573	14.1	20.6
6 20	19 49.51	−17 55.1	1.628	2.574	10.4	20.4
6 30	19 40.99	−17 49.5	1.582	2.574	6.2	20.1
7 10	19 31.06	−17 48.1	1.561	2.574	2.1	19.9
7 20	19 20.80	−17 49.3	1.566	2.574	3.6	20.0
7 30	19 11.39	−17 51.7	1.598	2.574	7.9	20.2
8 9	19 3.86	−17 54.5	1.655	2.573	11.9	20.5
8 19	18 58.86	−17 56.9	1.733	2.572	15.4	20.7
498317 2007 VU_{155}			7 12.6	276°.20	0°.3/12.5	17
6 10	19 55.99	−21 56.0	1.452	2.341	15.3	21.8
6 20	19 50.34	−22 5.2	1.368	2.322	11.3	21.5
6 30	19 41.82	−22 18.7	1.306	2.303	6.6	21.2
7 10	19 31.30	−22 33.2	1.268	2.284	1.4	20.8
7 20	19 20.01	−22 45.1	1.255	2.264	4.1	20.9
7 30	19 9.48	−22 52.0	1.267	2.244	9.4	21.2
8 9	19 1.11	−22 53.3	1.302	2.224	14.2	21.4
8 19	18 55.82	−22 49.4	1.356	2.204	18.4	21.6
414448 2009 FG_{60}			7 12.6	209°.16	0°.9/12.9	17
6 10	19 55.93	−17 53.1	1.674	2.550	14.3	22.1
6 20	19 49.80	−18 18.0	1.599	2.545	10.5	21.8
6 30	19 41.27	−18 51.2	1.546	2.540	6.2	21.6
7 10	19 31.15	−19 29.7	1.519	2.534	1.7	21.2
7 20	19 20.51	−20 9.5	1.519	2.528	3.5	21.4
7 30	19 10.62	−20 47.3	1.545	2.521	8.1	21.6
8 9	19 2.59	−21 20.5	1.596	2.513	12.4	21.9
8 19	18 57.19	−21 48.3	1.668	2.505	16.0	22.1
416050 2002 GJ_{39}			7 12.6	46°.30	5°.9/14.2	17
6 10	19 53.69	−10 14.6	1.137	2.021	19.0	20.2
6 20	19 48.42	− 9 41.8	1.094	2.037	14.6	20.0
6 30	19 40.45	− 9 27.0	1.071	2.054	10.0	19.8
7 10	19 30.94	− 9 30.7	1.068	2.071	6.4	19.6
7 20	19 21.27	− 9 50.8	1.089	2.090	6.8	19.7
7 30	19 12.91	−10 23.6	1.132	2.108	10.4	20.0
8 9	19 6.99	−11 4.0	1.197	2.127	14.5	20.2
8 19	19 4.11	−11 47.1	1.280	2.147	18.2	20.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
166926 2003 GL_3			7 12.6	60°.61	1°.6/12.2	17
	h m	° ′			°	m
6 10	19 57.07	−24 0.1	1.178	2.078	17.3	20.2
6 20	19 51.10	−24 23.1	1.131	2.090	12.5	19.9
6 30	19 42.10	−24 48.6	1.104	2.103	7.2	19.7
7 10	19 31.30	−25 11.4	1.100	2.116	2.1	19.4
7 20	19 20.26	−25 26.8	1.120	2.129	4.7	19.6
7 30	19 10.66	−25 33.0	1.164	2.142	9.9	19.9
8 9	19 3.78	−25 30.2	1.229	2.155	14.6	20.2
8 19	19 0.28	−25 20.3	1.313	2.169	18.4	20.5
318970 2005 UD_{290}			7 12.6	50°.93	2°.1/13.3	16
6 10	19 51.27	−16 19.6	2.010	2.881	12.4	20.8
6 20	19 45.85	−16 4.1	1.951	2.893	9.2	20.6
6 30	19 38.70	−15 54.8	1.915	2.905	5.6	20.4
7 10	19 30.56	−15 51.0	1.905	2.917	2.5	20.2
7 20	19 22.27	−15 51.5	1.922	2.929	3.4	20.3
7 30	19 14.72	−15 55.1	1.966	2.941	6.8	20.5
8 9	19 8.68	−16 0.6	2.036	2.954	10.1	20.7
8 19	19 4.64	−16 6.9	2.127	2.966	12.9	21.0
445275 2009 TH_5			7 12.6	156°.98	16°.9/ 6.4	18
6 10	20 22.05	−58 58.7	1.491	2.290	19.5	21.3
6 20	20 11.86	−61 8.8	1.458	2.297	18.0	21.2
6 30	19 55.27	−62 48.5	1.443	2.303	17.1	21.1
7 10	19 34.19	−63 42.6	1.447	2.308	17.0	21.1
7 20	19 12.19	−63 43.4	1.470	2.313	17.7	21.2
7 30	18 53.33	−62 53.6	1.510	2.317	19.0	21.3
8 9	18 40.34	−61 25.1	1.567	2.320	20.5	21.4
8 19	18 33.95	−59 31.8	1.638	2.323	22.0	21.6
301368 2009 CX_{49}			7 12.6	100°.60	5°.4/11.2	18
6 10	19 58.57	−37 12.9	2.034	2.902	12.5	20.5
6 20	19 51.38	−37 37.0	1.978	2.911	9.6	20.3
6 30	19 41.95	−37 51.5	1.945	2.920	6.9	20.2
7 10	19 31.25	−37 51.8	1.938	2.929	5.5	20.1
7 20	19 20.42	−37 35.5	1.957	2.937	6.4	20.2
7 30	19 10.66	−37 3.2	2.003	2.946	8.9	20.4
8 9	19 2.94	−36 17.6	2.073	2.954	11.6	20.5
8 19	18 57.82	−35 23.0	2.165	2.963	14.1	20.7
477705 2010 RY_{143}			7 12.6	216°.90	3°.5/14.3	18
6 10	19 49.16	− 8 49.2	2.871	3.708	10.1	22.3
6 20	19 44.01	− 8 39.6	2.785	3.701	7.9	22.1
6 30	19 37.58	− 8 38.7	2.724	3.693	5.6	22.0
7 10	19 30.34	− 8 46.4	2.689	3.685	3.8	21.8
7 20	19 22.86	− 9 2.1	2.683	3.676	3.9	21.8
7 30	19 15.75	− 9 24.4	2.705	3.667	5.9	21.9
8 9	19 9.60	− 9 51.5	2.754	3.658	8.3	22.1
8 19	19 4.86	−10 21.6	2.827	3.648	10.6	22.2
131735 2001 YG_{113}			7 12.6	160°.88	2°.4/13.5	17
6 10	19 55.86	−14 26.9	1.677	2.545	14.6	20.3
6 20	19 49.58	−14 40.9	1.611	2.551	10.9	20.1
6 30	19 41.05	−15 5.5	1.567	2.556	6.8	19.8
7 10	19 31.09	−15 38.6	1.548	2.560	2.9	19.6
7 20	19 20.78	−16 17.0	1.557	2.564	3.9	19.7
7 30	19 11.29	−16 57.3	1.592	2.567	8.0	19.9
8 9	19 3.67	−17 36.6	1.651	2.569	12.0	20.2
8 19	18 58.57	−18 12.8	1.732	2.571	15.4	20.4
241214 2007 TP_{61}			7 12.6	328°.00	2°.5/13.4	16
6 10	19 51.19	−15 14.7	1.759	2.635	13.7	20.8
6 20	19 46.17	−15 8.4	1.686	2.630	10.3	20.6
6 30	19 39.09	−15 10.7	1.635	2.625	6.4	20.4
7 10	19 30.69	−15 20.6	1.609	2.621	2.9	20.1
7 20	19 21.93	−15 36.3	1.610	2.617	3.9	20.2
7 30	19 13.86	−15 55.7	1.636	2.613	7.7	20.4
8 9	19 7.44	−16 16.8	1.687	2.609	11.5	20.6
8 19	19 3.32	−16 37.8	1.758	2.606	14.9	20.8
500819 2013 GF_{99}			7 12.6	54°.25	5°.2/11.4	17
6 10	19 58.27	−30 34.5	1.156	2.058	17.4	21.1
6 20	19 52.21	−31 22.7	1.112	2.070	12.9	20.9
6 30	19 42.84	−32 5.9	1.089	2.082	8.3	20.7
7 10	19 31.49	−32 36.1	1.087	2.094	5.2	20.5
7 20	19 19.89	−32 47.9	1.109	2.107	7.1	20.7
7 30	19 9.89	−32 40.2	1.154	2.121	11.3	20.9
8 9	19 2.88	−32 16.2	1.219	2.134	15.5	21.2
8 19	18 59.51	−31 40.8	1.303	2.148	19.2	21.5
167812 2005 CG			7 12.6	139°.10	4°.3/14.6	18
6 10	19 51.31	− 8 13.4	2.126	2.971	12.8	20.2
6 20	19 45.86	− 8 14.5	2.058	2.978	10.0	20.0
6 30	19 38.74	− 8 28.3	2.013	2.984	7.0	19.8
7 10	19 30.61	− 8 54.1	1.993	2.991	4.6	19.7
7 20	19 22.22	− 9 30.4	2.001	2.996	4.7	19.7
7 30	19 14.44	−10 14.2	2.036	3.002	7.2	19.9
8 9	19 8.02	−11 2.5	2.096	3.007	10.1	20.1
8 19	19 3.50	−11 52.2	2.179	3.012	12.9	20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
452503 2004 RT_{84}			7 12.6	290°.78	15°.7/12.1	15
	h m	° ′			°	m
6 10	20 18.50	−52 10.9	1.079	1.930	22.1	20.4
6 20	20 9.01	−52 53.5	1.016	1.917	19.4	20.1
6 30	19 53.36	−53 3.5	0.970	1.903	17.0	19.9
7 10	19 33.76	−52 23.5	0.941	1.890	15.8	19.8
7 20	19 13.76	−50 44.8	0.933	1.877	16.4	19.8
7 30	18 57.10	−48 12.6	0.944	1.863	18.7	19.9
8 9	18 46.06	−45 4.6	0.975	1.851	21.9	20.0
8 19	18 41.16	−41 40.7	1.022	1.838	25.2	20.2
350286 2012 TL_{286}			7 12.6	266°.17	0°.1/12.6	18
6 10	19 52.95	−21 7.6	1.900	2.780	12.7	21.7
6 20	19 47.44	−21 21.0	1.821	2.770	9.3	21.4
6 30	19 39.84	−21 38.5	1.765	2.761	5.4	21.2
7 10	19 30.88	−21 57.4	1.735	2.751	1.1	20.9
7 20	19 21.49	−22 14.9	1.732	2.741	3.2	21.0
7 30	19 12.74	−22 29.2	1.756	2.731	7.4	21.2
8 9	19 5.62	−22 39.2	1.804	2.721	11.2	21.5
8 19	19 0.80	−22 44.7	1.875	2.711	14.5	21.6
108399 2001 KE_{28}			7 12.6	326°.11	2°.5/11.6	18
6 10	19 52.78	−26 0.1	1.788	2.675	13.0	19.4
6 20	19 47.48	−26 46.6	1.719	2.672	9.5	19.1
6 30	19 39.92	−27 34.5	1.674	2.669	5.6	18.9
7 10	19 30.90	−28 19.0	1.654	2.666	2.6	18.7
7 20	19 21.45	−28 55.7	1.660	2.663	4.4	18.8
7 30	19 12.76	−29 21.7	1.693	2.661	8.3	19.0
8 9	19 5.86	−29 36.4	1.749	2.658	12.0	19.3
8 19	19 1.46	−29 40.8	1.827	2.656	15.1	19.5
131479 2001 RG_{99}			7 12.6	253°.85	2°.7/13.5	17
6 10	19 55.75	−14 21.6	1.561	2.434	15.3	21.2
6 20	19 49.96	−14 29.6	1.474	2.416	11.6	21.0
6 30	19 41.56	−14 49.5	1.408	2.398	7.3	20.7
7 10	19 31.29	−15 19.7	1.367	2.378	3.2	20.4
7 20	19 20.27	−15 57.3	1.351	2.359	4.4	20.4
7 30	19 9.85	−16 38.8	1.362	2.338	9.0	20.6
8 9	19 1.30	−17 20.8	1.396	2.317	13.5	20.8
8 19	18 55.53	−18 0.6	1.451	2.296	17.6	21.0
382079 2011 FE_{33}			7 12.6	119°.25	7°.6/15.9	17
6 10	19 51.61	− 1 14.8	1.819	2.644	15.5	21.1
6 20	19 46.30	− 0 52.4	1.754	2.650	12.8	20.9
6 30	19 39.09	− 0 49.4	1.710	2.656	10.0	20.7
7 10	19 30.71	− 1 7.1	1.689	2.662	8.0	20.6
7 20	19 22.04	− 1 44.6	1.693	2.667	7.8	20.6
7 30	19 14.07	− 2 38.9	1.723	2.673	9.5	20.7
8 9	19 7.64	− 3 44.8	1.776	2.678	12.2	20.9
8 19	19 3.36	− 4 57.2	1.851	2.683	14.8	21.1
381179 2007 JU_{30}			7 12.6	5°.01	21°.1/14.5	15
6 10	19 55.49	+ 9 47.1	0.975	1.793	26.3	20.5
6 20	19 50.37	+12 56.7	0.932	1.793	24.1	20.3
6 30	19 41.97	+15 30.2	0.902	1.793	22.2	20.2
7 10	19 31.38	+17 14.0	0.889	1.793	21.2	20.1
7 20	19 20.15	+17 59.7	0.891	1.794	21.2	20.2
7 30	19 10.08	+17 47.2	0.908	1.795	22.3	20.2
8 9	19 2.73	+16 45.0	0.940	1.796	24.1	20.4
8 19	18 59.03	+15 6.4	0.984	1.798	26.1	20.5
260526 2005 EV_{117}			7 12.6	194°.50	1°.3/13.1	17
6 10	19 55.54	−17 19.2	1.708	2.583	14.1	21.3
6 20	19 49.43	−17 35.0	1.636	2.581	10.4	21.1
6 30	19 41.03	−17 58.8	1.587	2.579	6.2	20.8
7 10	19 31.14	−18 28.1	1.563	2.577	1.9	20.6
7 20	19 20.82	−18 59.7	1.565	2.574	3.5	20.7
7 30	19 11.27	−19 30.6	1.595	2.571	7.9	20.9
8 9	19 3.55	−19 58.7	1.649	2.567	12.0	21.2
8 19	18 58.36	−20 22.8	1.724	2.562	15.5	21.4
157732 2006 BB_{138}			7 12.6	259°.87	3°.3/14.4	18
6 10	19 48.59	− 9 36.9	2.563	3.409	10.9	20.2
6 20	19 43.79	− 9 45.1	2.475	3.397	8.4	20.0
6 30	19 37.56	−10 3.7	2.411	3.386	5.8	19.8
7 10	19 30.39	−10 31.9	2.374	3.374	3.6	19.7
7 20	19 22.91	−11 8.2	2.364	3.363	3.8	19.7
7 30	19 15.81	−11 50.4	2.383	3.351	6.2	19.8
8 9	19 9.76	−12 36.0	2.428	3.339	8.9	19.9
8 19	19 5.27	−13 22.6	2.496	3.327	11.5	20.1
464847 2005 EM_{252}			7 12.6	27°.11	7°.4/15.0	17
6 10	19 49.96	− 7 15.9	1.056	1.942	19.9	20.9
6 20	19 45.92	− 6 45.5	1.013	1.954	15.7	20.6
6 30	19 39.14	− 6 38.4	0.988	1.966	11.3	20.4
7 10	19 30.73	− 6 55.5	0.982	1.980	8.0	20.3
7 20	19 22.08	− 7 34.2	0.998	1.995	7.9	20.4
7 30	19 14.66	− 8 29.3	1.036	2.012	11.1	20.6
8 9	19 9.65	− 9 33.5	1.094	2.029	15.1	20.9
8 19	19 7.69	−10 40.1	1.170	2.047	18.8	21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
376814 2000 YN_{48}			7 12.6 207°.23		0°.7/12.3 18	
	h m	° ′			°	m
6 10	19 53.82	−20 47.7	2.255	3.125	11.3	21.2
6 20	19 47.86	−21 41.1	2.174	3.119	8.2	21.0
6 30	19 40.02	−22 40.0	2.119	3.113	4.7	20.8
7 10	19 30.93	−23 40.5	2.092	3.107	1.1	20.5
7 20	19 21.40	−24 38.6	2.093	3.100	3.1	20.7
7 30	19 12.37	−25 30.8	2.123	3.093	6.7	20.9
8 9	19 4.70	−26 15.1	2.179	3.084	10.1	21.1
8 19	18 59.05	−26 50.8	2.259	3.076	13.0	21.3
1751 Herget			7 12.6 299°.37		4°.0/13.6 18	
6 10	19 51.47	−12 29.8	1.813	2.680	13.8	16.1
6 20	19 46.44	−11 59.8	1.726	2.662	10.6	15.9
6 30	19 39.32	−11 38.9	1.661	2.644	7.1	15.6
7 10	19 30.80	−11 27.6	1.621	2.626	4.3	15.4
7 20	19 21.79	−11 25.8	1.607	2.608	4.9	15.4
7 30	19 13.34	−11 32.3	1.619	2.591	8.3	15.6
8 9	19 6.43	−11 45.3	1.655	2.573	12.0	15.8
8 19	19 1.77	−12 2.7	1.712	2.556	15.3	16.0
91033 1998 ES_{19}			7 12.6 108°.38		3°.3/11.7 18	
6 10	19 57.46	−30 1.8	1.796	2.677	13.2	19.6
6 20	19 50.71	−30 23.8	1.739	2.687	9.8	19.4
6 30	19 41.66	−30 41.8	1.705	2.696	6.1	19.2
7 10	19 31.26	−30 51.2	1.697	2.706	3.4	19.0
7 20	19 20.66	−30 49.4	1.715	2.715	4.9	19.2
7 30	19 11.11	−30 35.8	1.760	2.724	8.4	19.4
8 9	19 3.59	−30 12.0	1.830	2.733	11.8	19.6
8 19	18 58.72	−29 40.9	1.920	2.741	14.8	19.8
476929 2008 WV_{122}			7 12.6 319°.85		0°.2/12.7 18	
6 10	19 50.66	−19 43.8	1.437	2.332	15.1	21.0
6 20	19 46.42	−20 8.4	1.357	2.313	11.1	20.7
6 30	19 39.57	−20 41.6	1.298	2.295	6.5	20.4
7 10	19 30.90	−21 19.7	1.262	2.278	1.4	20.0
7 20	19 21.53	−21 58.7	1.251	2.261	3.9	20.1
7 30	19 12.87	−22 34.4	1.265	2.245	9.0	20.4
8 9	19 6.19	−23 4.2	1.301	2.229	13.7	20.6
8 19	19 2.38	−23 26.9	1.356	2.215	17.8	20.8
88544 2001 QM_{191}			7 12.6 219°.23		0°.3/12.8 18	
6 10	19 53.82	−18 46.9	1.672	2.553	14.0	19.7
6 20	19 48.27	−19 20.5	1.601	2.551	10.3	19.4
6 30	19 40.42	−20 2.1	1.553	2.548	6.0	19.2
7 10	19 31.05	−20 48.1	1.530	2.545	1.4	18.8
7 20	19 21.21	−21 34.2	1.533	2.542	3.4	19.0
7 30	19 12.13	−22 16.6	1.563	2.539	8.0	19.3
8 9	19 4.87	−22 53.1	1.617	2.536	12.1	19.5
8 19	19 0.17	−23 22.5	1.691	2.532	15.6	19.7
323800 2005 QK_{155}			7 12.6 349°.74		4°.2/11.4 17	
6 10	19 48.57	−27 27.9	1.029	1.949	17.5	19.4
6 20	19 45.64	−28 16.7	0.970	1.938	12.9	19.1
6 30	19 39.38	−29 6.9	0.929	1.929	8.0	18.8
7 10	19 30.87	−29 50.9	0.909	1.921	4.3	18.6
7 20	19 21.68	−30 21.4	0.911	1.915	6.7	18.7
7 30	19 13.69	−30 34.5	0.933	1.911	11.7	19.0
8 9	19 8.48	−30 30.4	0.975	1.908	16.6	19.2
8 19	19 6.96	−30 11.7	1.033	1.908	20.9	19.5
137526 1999 VB_{51}			7 12.6 330°.56		3°.6/11.8 18	
6 10	19 53.25	−28 8.8	1.162	2.070	16.9	19.3
6 20	19 48.87	−28 32.9	1.093	2.055	12.5	19.0
6 30	19 41.19	−28 55.6	1.045	2.042	7.7	18.7
7 10	19 31.26	−29 10.8	1.017	2.030	3.8	18.4
7 20	19 20.61	−29 13.3	1.013	2.018	6.0	18.5
7 30	19 11.10	−29 1.0	1.031	2.007	11.1	18.8
8 9	19 4.28	−28 35.5	1.069	1.998	16.0	19.0
8 19	19 1.09	−28 0.3	1.125	1.989	20.3	19.3
520017 2013 UB_{21}			7 12.6 181°.70		1°.7/13.3 17	
6 10	19 53.97	−16 17.4	2.153	3.017	12.0	22.4
6 20	19 47.86	−16 21.4	2.079	3.018	8.9	22.2
6 30	19 39.95	−16 31.9	2.029	3.018	5.4	22.0
7 10	19 30.93	−16 47.3	2.005	3.018	2.1	21.8
7 20	19 21.61	−17 5.9	2.010	3.017	3.1	21.8
7 30	19 12.91	−17 25.7	2.043	3.016	6.7	22.1
8 9	19 5.65	−17 45.2	2.101	3.014	10.1	22.3
8 19	19 0.40	−18 3.3	2.183	3.012	13.0	22.5
509392 2007 CA_{43}			7 12.6 165°.20		3°.5/11.4 18	
6 10	19 55.65	−34 21.6	2.823	3.684	9.6	21.9
6 20	19 48.79	−34 34.2	2.755	3.689	7.2	21.8
6 30	19 40.35	−34 40.9	2.712	3.692	4.9	21.6
7 10	19 31.00	−34 38.8	2.697	3.696	3.5	21.5
7 20	19 21.51	−34 26.5	2.711	3.699	4.3	21.6
7 30	19 12.70	−34 3.7	2.753	3.701	6.5	21.7
8 9	19 5.28	−33 32.0	2.822	3.704	8.9	21.9
8 19	18 59.72	−32 53.4	2.914	3.705	11.0	22.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
180403 2004 BC_{24}			7 12.6 192°.92		1°.1/13.1 18	
	h m	° ′			°	m
6 10	19 54.83	−17 16.0	1.744	2.618	13.9	20.6
6 20	19 48.91	−17 40.6	1.672	2.617	10.2	20.4
6 30	19 40.75	−18 13.7	1.623	2.616	6.1	20.1
7 10	19 31.14	−18 52.4	1.599	2.614	1.8	19.8
7 20	19 21.10	−19 33.0	1.603	2.612	3.4	19.9
7 30	19 11.80	−20 12.2	1.633	2.609	7.8	20.2
8 9	19 4.26	−20 47.6	1.688	2.606	11.8	20.4
8 19	18 59.19	−21 17.9	1.764	2.602	15.2	20.7
519167 2010 OA_{2}			7 12.6 300°.75		2°.1/11.9 18	
6 10	19 52.08	−27 2.2	2.074	2.957	11.6	21.0
6 20	19 46.79	−27 23.9	1.992	2.942	8.6	20.8
6 30	19 39.49	−27 45.1	1.934	2.928	5.1	20.6
7 10	19 30.87	−28 2.4	1.901	2.914	2.3	20.4
7 20	19 21.84	−28 12.9	1.896	2.899	3.9	20.5
7 30	19 13.41	−28 15.1	1.917	2.885	7.4	20.7
8 9	19 6.52	−28 8.9	1.963	2.872	10.9	20.8
8 19	19 1.84	−27 55.6	2.031	2.858	13.9	21.0
357780 2005 SQ_{231}			7 12.6 280°.23		4°.5/14.4 18	
6 10	19 49.61	− 8 23.4	2.227	3.073	12.3	20.3
6 20	19 44.67	− 8 3.9	2.148	3.067	9.7	20.1
6 30	19 38.13	− 7 55.7	2.092	3.062	6.9	19.9
7 10	19 30.57	− 7 58.9	2.061	3.056	4.8	19.8
7 20	19 22.71	− 8 12.9	2.058	3.050	5.0	19.8
7 30	19 15.35	− 8 36.2	2.081	3.044	7.3	19.9
8 9	19 9.23	− 9 6.3	2.129	3.039	10.1	20.1
8 19	19 4.90	− 9 40.5	2.200	3.033	12.8	20.3
357844 2005 UC_{184}			7 12.6 309°.48		0°.5/12.8 16	
6 10	19 50.47	−19 46.3	1.957	2.837	12.3	21.1
6 20	19 45.65	−19 55.8	1.872	2.821	9.1	20.8
6 30	19 38.85	−20 10.3	1.810	2.805	5.3	20.6
7 10	19 30.74	−20 27.8	1.774	2.789	1.3	20.3
7 20	19 22.18	−20 45.9	1.765	2.774	3.1	20.4
7 30	19 14.18	−21 2.6	1.782	2.759	7.2	20.6
8 9	19 7.66	−21 16.5	1.824	2.744	10.9	20.8
8 19	19 3.29	−21 26.9	1.888	2.729	14.2	21.0
325859 2010 TB_{86}			7 12.6 171°.26		0°.8/12.4 17	
6 10	19 56.74	−22 18.4	1.754	2.632	13.6	22.0
6 20	19 50.29	−22 47.1	1.687	2.635	9.9	21.8
6 30	19 41.53	−23 19.4	1.643	2.638	5.7	21.5
7 10	19 31.31	−23 51.5	1.625	2.640	1.4	21.2
7 20	19 20.71	−24 19.5	1.634	2.641	3.6	21.4
7 30	19 10.95	−24 41.0	1.670	2.642	7.9	21.7
8 9	19 3.09	−24 55.1	1.730	2.643	11.9	21.9
8 19	18 57.80	−25 2.4	1.812	2.643	15.2	22.1
316640 2011 YA_{23}			7 12.6 271°.96		1°.5/11.8 18	
6 10	19 51.10	−24 3.5	2.275	3.153	10.9	20.9
6 20	19 45.93	−24 50.8	2.195	3.144	7.9	20.7
6 30	19 38.94	−25 41.2	2.139	3.134	4.6	20.4
7 10	19 30.76	−26 30.7	2.110	3.124	1.7	20.2
7 20	19 22.16	−27 15.7	2.109	3.114	3.4	20.3
7 30	19 14.05	−27 53.5	2.136	3.104	6.8	20.5
8 9	19 7.27	−28 22.6	2.189	3.094	10.1	20.7
8 19	19 2.46	−28 43.0	2.264	3.084	12.9	20.9
255294 2005 VS_{112}			7 12.6 295°.90		0°.2/12.6 18	
6 10	19 51.38	−21 56.2	2.122	3.000	11.6	20.6
6 20	19 46.17	−22 1.4	2.038	2.986	8.5	20.4
6 30	19 39.08	−22 9.1	1.978	2.973	4.9	20.2
7 10	19 30.79	−22 17.2	1.944	2.960	1.0	19.9
7 20	19 22.12	−22 23.8	1.938	2.947	2.9	20.0
7 30	19 14.01	−22 27.6	1.959	2.933	6.8	20.2
8 9	19 7.33	−22 27.8	2.005	2.920	10.3	20.4
8 19	19 2.69	−22 24.6	2.073	2.908	13.4	20.6
22640 Shalilabaena			7 12.6 350°.66		1°.3/12.1 18	
6 10	19 51.06	−21 7.1	1.193	2.099	16.7	17.5
6 20	19 47.03	−22 5.0	1.132	2.094	12.2	17.2
6 30	19 40.03	−23 12.7	1.090	2.089	7.0	16.9
7 10	19 31.04	−24 23.7	1.071	2.086	1.8	16.6
7 20	19 21.41	−25 30.7	1.075	2.083	4.7	16.8
7 30	19 12.78	−26 27.3	1.102	2.082	10.1	17.1
8 9	19 6.57	−27 10.5	1.151	2.081	15.0	17.3
8 19	19 3.64	−27 39.8	1.218	2.081	19.1	17.6
220247 2002 XK_{64}			7 12.7 242°.47		0°.9/12.3 18	
6 10	19 54.47	−21 28.6	1.710	2.593	13.7	20.4
6 20	19 48.85	−22 15.7	1.634	2.585	10.0	20.2
6 30	19 40.83	−23 9.1	1.580	2.577	5.8	19.9
7 10	19 31.19	−24 4.3	1.553	2.568	1.4	19.6
7 20	19 20.98	−24 56.3	1.552	2.559	3.8	19.7
7 30	19 11.46	−25 40.9	1.577	2.550	8.3	20.0
8 9	19 3.75	−26 16.2	1.627	2.541	12.4	20.2
8 19	18 58.65	−26 41.9	1.697	2.531	15.9	20.4

380211 2001 HT_{45} 7 12.7 115°.94 3°.7/10.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 56.54	−30 45.4	2.220	3.092	11.4	21.0
6 20	19 49.77	−31 45.0	2.169	3.111	8.4	20.8
6 30	19 41.07	−32 41.1	2.143	3.129	5.5	20.7
7 10	19 31.19	−33 28.9	2.144	3.146	3.7	20.6
7 20	19 21.10	−34 4.5	2.173	3.164	5.0	20.7
7 30	19 11.81	−34 26.3	2.230	3.180	7.7	20.9
8 9	19 4.19	−34 34.9	2.312	3.196	10.5	21.1
8 19	18 58.82	−34 32.4	2.416	3.212	12.9	21.3

314010 2004 VO_{23} 7 12.7 296°.06 4°.3/13.4 18

6 10	19 54.20	−14 20.0	1.284	2.170	17.1	19.9
6 20	19 49.23	−13 42.8	1.203	2.150	13.1	19.6
6 30	19 41.32	−13 15.4	1.141	2.130	8.6	19.3
7 10	19 31.34	−12 58.5	1.101	2.110	4.7	19.0
7 20	19 20.54	−12 52.1	1.085	2.090	5.8	19.0
7 30	19 10.49	−12 55.1	1.093	2.070	10.4	19.2
8 9	19 2.65	−13 5.6	1.121	2.051	15.4	19.5
8 19	18 57.98	−13 21.2	1.169	2.032	19.8	19.7

312402 2008 FD_{48} 7 12.7 243°.68 1°.7/11.9 18

6 10	19 52.02	−25 49.7	2.228	3.107	11.1	21.3
6 20	19 46.53	−26 15.5	2.157	3.105	8.1	21.1
6 30	19 39.23	−26 41.5	2.109	3.104	4.7	20.9
7 10	19 30.82	−27 4.7	2.089	3.102	1.9	20.7
7 20	19 22.10	−27 22.2	2.096	3.100	3.5	20.8
7 30	19 14.01	−27 32.6	2.130	3.098	6.8	21.0
8 9	19 7.37	−27 35.6	2.190	3.097	10.0	21.2
8 19	19 2.75	−27 31.8	2.272	3.095	12.8	21.4

351910 2006 SP_{355} 7 12.7 213°.01 4°.1/11.2 18

6 10	19 54.97	−33 14.8	2.209	3.083	11.4	21.0
6 20	19 48.77	−33 44.8	2.140	3.081	8.6	20.8
6 30	19 40.55	−34 9.5	2.095	3.079	5.8	20.6
7 10	19 31.10	−34 24.7	2.076	3.077	4.1	20.5
7 20	19 21.35	−34 27.6	2.085	3.075	5.2	20.6
7 30	19 12.36	−34 17.5	2.121	3.072	7.9	20.7
8 9	19 5.04	−33 55.6	2.181	3.070	10.8	20.9
8 19	18 59.99	−33 24.5	2.263	3.068	13.4	21.1

179714 2002 RD_{62} 7 12.7 352°.72 9°.3/ 9.7 17

6 10	19 45.70	−34 28.4	0.874	1.802	18.9	18.4
6 20	19 44.18	−35 55.5	0.823	1.790	14.8	18.1
6 30	19 38.83	−37 15.5	0.789	1.780	11.0	17.8
7 10	19 30.83	−38 16.2	0.773	1.772	9.3	17.7
7 20	19 22.04	−38 47.3	0.776	1.767	11.2	17.8
7 30	19 14.72	−38 45.1	0.798	1.764	15.2	18.0
8 9	19 10.71	−38 12.7	0.836	1.763	19.5	18.2
8 19	19 10.93	−37 17.1	0.889	1.765	23.4	18.5

41581 2000 SY_{22} 7 12.7 250°.88 3°.7/13.9 18

6 10	19 52.87	−11 27.7	1.998	2.855	13.1	19.5
6 20	19 47.32	−11 16.1	1.910	2.840	10.1	19.3
6 30	19 39.80	−11 14.8	1.845	2.825	6.8	19.1
7 10	19 30.97	−11 23.7	1.805	2.809	4.1	18.9
7 20	19 21.67	−11 41.5	1.792	2.793	4.5	18.9
7 30	19 12.87	−12 6.5	1.806	2.776	7.7	19.0
8 9	19 5.50	−12 36.3	1.845	2.759	11.2	19.2
8 19	19 0.23	−13 8.3	1.907	2.742	14.4	19.4

105437 2000 QR_{178} 7 12.7 306°.84 5°.5/14.8 18

6 10	19 49.28	− 6 27.9	1.980	2.826	13.6	19.5
6 20	19 44.65	− 6 10.8	1.899	2.816	10.9	19.3
6 30	19 38.23	− 6 7.8	1.840	2.806	8.0	19.1
7 10	19 30.63	− 6 19.7	1.805	2.796	5.8	19.0
7 20	19 22.65	− 6 45.7	1.797	2.786	5.9	19.0
7 30	19 15.18	− 7 23.6	1.814	2.777	8.2	19.1
8 9	19 9.07	− 8 10.1	1.855	2.768	11.2	19.2
8 19	19 4.94	− 9 1.3	1.918	2.759	14.1	19.4

217351 2004 RD_{220} 7 12.7 285°.47 2°.3/12.1 18

6 10	19 54.62	−29 29.0	2.298	3.172	11.0	19.9
6 20	19 48.40	−29 24.9	2.216	3.160	8.1	19.7
6 30	19 40.31	−29 16.8	2.157	3.149	5.0	19.5
7 10	19 31.06	−29 2.3	2.126	3.137	2.4	19.3
7 20	19 21.52	−28 39.8	2.123	3.125	3.7	19.4
7 30	19 12.66	−28 9.3	2.148	3.114	6.9	19.5
8 9	19 5.32	−27 32.1	2.198	3.102	10.1	19.7
8 19	19 0.08	−26 50.4	2.272	3.090	12.9	19.9

154941 2004 TP_{54} 7 12.7 220°.54 0°.5/12.4 18

6 10	19 50.44	−22 25.1	2.729	3.599	9.6	20.4
6 20	19 45.11	−22 44.7	2.648	3.593	6.9	20.2
6 30	19 38.34	−23 6.5	2.593	3.587	4.0	20.0
7 10	19 30.65	−23 28.1	2.566	3.581	0.9	19.8
7 20	19 22.69	−23 47.8	2.567	3.575	2.5	19.9
7 30	19 15.18	−24 3.9	2.597	3.568	5.6	20.1
8 9	19 8.78	−24 15.7	2.653	3.561	8.4	20.3
8 19	19 3.99	−24 23.1	2.733	3.554	10.9	20.4

473286 2015 PD_{30} 7 12.7 297°.61 1°.1/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 52.88	−25 14.7	2.117	2.996	11.6	21.1
6 20	19 47.26	−25 13.3	2.035	2.985	8.5	20.9
6 30	19 39.72	−25 11.4	1.978	2.973	4.9	20.7
7 10	19 30.96	−25 6.6	1.946	2.961	1.4	20.4
7 20	19 21.85	−24 57.4	1.942	2.949	3.2	20.5
7 30	19 13.39	−24 42.9	1.965	2.938	7.0	20.7
8 9	19 6.44	−24 23.7	2.014	2.926	10.4	20.9
8 19	19 1.62	−24 0.9	2.085	2.915	13.5	21.1

257373 2009 PQ_{20} 7 12.7 7°.18 9°.9/ 9.6 18

6 10	19 58.95	−47 52.0	1.870	2.718	14.2	19.1
6 20	19 52.38	−48 46.0	1.819	2.719	12.2	19.0
6 30	19 42.88	−49 22.6	1.788	2.721	10.5	18.9
7 10	19 31.63	−49 34.8	1.781	2.723	9.9	18.9
7 20	19 20.12	−49 19.1	1.796	2.726	10.6	18.9
7 30	19 9.96	−48 36.2	1.834	2.729	12.3	19.0
8 9	19 2.41	−47 30.8	1.894	2.733	14.4	19.2
8 19	18 58.11	−46 9.6	1.973	2.738	16.4	19.3

37202 2000 WK_{95} 7 12.7 251°.65 2°.4/11.7 18

6 10	19 54.42	−26 2.6	1.888	2.770	12.6	18.6
6 20	19 48.70	−26 45.8	1.810	2.760	9.3	18.4
6 30	19 40.71	−27 30.5	1.756	2.750	5.5	18.2
7 10	19 31.20	−28 12.0	1.727	2.739	2.5	17.9
7 20	19 21.17	−28 46.0	1.726	2.729	4.3	18.0
7 30	19 11.81	−29 9.8	1.751	2.718	8.1	18.3
8 9	19 4.16	−29 22.7	1.801	2.707	11.8	18.5
8 19	18 58.99	−29 25.7	1.871	2.695	15.0	18.6

514637 2004 VD_{47} 7 12.7 286°.48 1°.9/11.9 18

6 10	19 54.54	−24 9.4	1.798	2.681	13.1	21.6
6 20	19 49.10	−24 52.9	1.700	2.651	9.7	21.3
6 30	19 41.14	−25 41.0	1.625	2.620	5.7	21.0
7 10	19 31.34	−26 29.1	1.575	2.589	2.1	20.7
7 20	19 20.68	−27 12.4	1.553	2.558	4.3	20.8
7 30	19 10.46	−27 46.8	1.557	2.527	8.7	21.0
8 9	19 1.91	−28 10.6	1.585	2.495	12.9	21.1
8 19	18 55.97	−28 24.1	1.634	2.463	16.6	21.3

263161 2007 VQ_{305} 7 12.7 159°.34 1°.2/12.3 17

6 10	19 57.50	−23 50.7	1.711	2.592	13.8	21.8
6 20	19 50.87	−24 12.4	1.647	2.597	10.0	21.6
6 30	19 41.89	−24 35.9	1.606	2.601	5.8	21.4
7 10	19 31.43	−24 57.3	1.590	2.605	1.6	21.1
7 20	19 20.65	−25 13.3	1.601	2.609	3.8	21.3
7 30	19 10.79	−25 21.9	1.639	2.612	8.1	21.5
8 9	19 2.92	−25 23.1	1.702	2.614	12.0	21.8
8 19	18 57.71	−25 18.1	1.785	2.616	15.4	22.0

21556 Christineli 7 12.7 25°.63 7°.4/14.4 18

6 10	19 50.65	− 9 27.3	0.983	1.878	20.3	16.2
6 20	19 46.52	− 8 27.2	0.945	1.892	15.9	16.0
6 30	19 39.53	− 7 47.7	0.925	1.908	11.3	15.8
7 10	19 30.92	− 7 31.1	0.924	1.924	7.9	15.7
7 20	19 22.16	− 7 36.6	0.945	1.943	8.1	15.8
7 30	19 14.78	− 8 0.8	0.986	1.962	11.5	16.0
8 9	19 9.95	− 8 37.6	1.047	1.983	15.6	16.3
8 19	19 8.27	− 9 21.0	1.126	2.005	19.2	16.6

248202 2005 EV_{35} 7 12.7 119°.54 3°.6/14.1 17

6 10	19 52.33	−10 41.7	2.160	3.011	12.5	20.8
6 20	19 46.57	−10 34.3	2.098	3.024	9.5	20.6
6 30	19 39.18	−10 37.1	2.059	3.036	6.4	20.5
7 10	19 30.84	−10 49.6	2.046	3.048	3.9	20.3
7 20	19 22.31	−11 10.2	2.061	3.060	4.2	20.4
7 30	19 14.43	−11 37.1	2.103	3.071	6.9	20.6
8 9	19 7.94	−12 7.7	2.170	3.082	9.8	20.8
8 19	19 3.34	−12 39.8	2.261	3.092	12.5	21.0

254350 2004 TL_{32} 7 12.7 303°.04 1°.4/13.2 18

6 10	19 50.29	−17 30.0	2.257	3.127	11.3	20.7
6 20	19 45.20	−17 28.1	2.180	3.123	8.3	20.5
6 30	19 38.47	−17 31.4	2.127	3.118	5.0	20.3
7 10	19 30.71	−17 38.7	2.100	3.113	1.8	20.1
7 20	19 22.66	−17 48.6	2.101	3.109	2.9	20.2
7 30	19 15.17	−17 59.5	2.129	3.104	6.3	20.4
8 9	19 8.97	−18 10.4	2.183	3.100	9.5	20.6
8 19	19 4.61	−18 20.2	2.260	3.096	12.4	20.8

187616 2007 AK_{17} 7 12.7 117°.16 0°.6/13.0 18

6 10	19 50.71	−17 37.4	2.576	3.441	10.3	21.0
6 20	19 45.27	−18 9.7	2.513	3.453	7.5	20.8
6 30	19 38.40	−18 47.4	2.474	3.466	4.4	20.7
7 10	19 30.68	−19 28.1	2.463	3.478	1.2	20.4
7 20	19 22.77	−20 9.4	2.482	3.490	2.4	20.6
7 30	19 15.38	−20 48.9	2.529	3.502	5.6	20.8
8 9	19 9.16	−21 24.8	2.602	3.514	8.4	21.0
8 19	19 4.59	−21 56.3	2.700	3.525	10.9	21.2

181804 1998 QO_{81} 7 12.7 349°.81 10°.1/17.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 45.70	+ 3 21.3	1.631	2.452	17.2	18.8
6 20	19 42.35	+ 3 50.1	1.559	2.443	14.8	18.6
6 30	19 37.03	+ 3 53.8	1.505	2.434	12.4	18.5
7 10	19 30.43	+ 3 29.5	1.472	2.427	10.5	18.3
7 20	19 23.40	+ 2 37.4	1.461	2.421	10.1	18.3
7 30	19 16.97	+ 1 20.6	1.472	2.416	11.4	18.4
8 9	19 12.08	− 0 14.3	1.506	2.412	13.7	18.5
8 19	19 9.38	− 1 59.7	1.561	2.409	16.3	18.7

148683 2001 SG_{227} 7 12.7 345°.77 1°.4/12.2 18 R

6 10	19 51.93	−24 10.1	1.797	2.684	12.9	19.4
6 20	19 46.82	−24 34.7	1.728	2.681	9.4	19.2
6 30	19 39.57	−25 1.4	1.682	2.678	5.5	18.9
7 10	19 30.96	−25 26.4	1.661	2.676	1.7	18.7
7 20	19 21.98	−25 46.7	1.666	2.673	3.7	18.8
7 30	19 13.76	−26 0.1	1.698	2.671	7.7	19.0
8 9	19 7.27	−26 5.9	1.753	2.670	11.5	19.3
8 19	19 3.17	−26 4.9	1.830	2.669	14.7	19.5

95822 2003 FM_{82} 7 12.7 357°.89 0°.7/12.4 18

6 10	19 48.92	−20 17.6	1.195	2.102	16.5	18.9
6 20	19 45.41	−21 5.6	1.135	2.098	12.1	18.6
6 30	19 39.09	−22 3.7	1.095	2.095	7.0	18.3
7 10	19 30.91	−23 6.3	1.077	2.093	1.5	18.0
7 20	19 22.17	−24 6.7	1.083	2.093	4.4	18.2
7 30	19 14.43	−24 59.2	1.112	2.094	9.7	18.5
8 9	19 9.00	−25 40.6	1.162	2.096	14.5	18.7
8 19	19 6.71	−26 9.9	1.230	2.099	18.6	19.0

23451 1988 CO_{7} 7 12.7 280°.07 0°.4/12.6 18

6 10	19 55.92	−21 8.1	1.233	2.130	16.9	18.3
6 20	19 50.58	−21 30.0	1.164	2.122	12.4	18.0
6 30	19 42.14	−21 59.0	1.116	2.114	7.2	17.7
7 10	19 31.58	−22 30.6	1.090	2.106	1.6	17.3
7 20	19 20.33	−22 59.9	1.088	2.098	4.4	17.5
7 30	19 10.09	−23 23.1	1.110	2.090	10.0	17.8
8 9	19 2.35	−23 38.8	1.154	2.082	15.1	18.0
8 19	18 58.02	−23 47.1	1.216	2.075	19.4	18.3

384026 2008 UT_{113} 7 12.7 152°.94 0°.5/12.8 18

6 10	19 53.88	−20 20.5	1.826	2.705	13.1	21.0
6 20	19 48.11	−20 22.0	1.758	2.706	9.6	20.8
6 30	19 40.26	−20 27.6	1.712	2.707	5.6	20.6
7 10	19 31.12	−20 35.1	1.692	2.708	1.3	20.3
7 20	19 21.67	−20 42.5	1.699	2.708	3.2	20.4
7 30	19 13.00	−20 48.0	1.733	2.709	7.4	20.7
8 9	19 6.05	−20 51.1	1.791	2.710	11.2	20.9
8 19	19 1.45	−20 51.6	1.871	2.710	14.4	21.1

192866 1999 WS_{16} 7 12.7 187°.86 3°.1/11.4 18

6 10	19 55.85	−30 3.6	2.318	3.190	11.0	20.5
6 20	19 49.34	−30 40.8	2.247	3.189	8.1	20.3
6 30	19 40.90	−31 15.2	2.200	3.188	5.2	20.2
7 10	19 31.26	−31 43.0	2.180	3.186	3.2	20.0
7 20	19 21.29	−32 1.0	2.189	3.184	4.4	20.1
7 30	19 11.98	−32 7.8	2.225	3.182	7.3	20.3
8 9	19 4.21	−32 3.8	2.287	3.178	10.3	20.5
8 19	18 58.59	−31 50.8	2.371	3.175	12.9	20.6

500172 2012 FP_{34} 7 12.7 121°.02 4°.5/11.2 17

6 10	19 57.36	−30 3.6	1.500	2.389	14.9	21.4
6 20	19 51.24	−30 56.8	1.440	2.392	11.1	21.2
6 30	19 42.32	−31 47.2	1.403	2.394	7.1	21.0
7 10	19 31.59	−32 28.2	1.390	2.396	4.5	20.8
7 20	19 20.41	−32 54.2	1.402	2.398	6.2	20.9
7 30	19 10.31	−33 3.0	1.439	2.400	10.0	21.1
8 9	19 2.58	−32 55.9	1.498	2.402	13.9	21.4
8 19	18 57.98	−32 36.3	1.577	2.404	17.2	21.6

437733 2014 ET_{1} 7 12.7 224°.78 3°.5/14.4 18

6 10	19 51.53	− 9 33.5	2.196	3.043	12.4	21.0
6 20	19 46.19	− 9 52.3	2.112	3.036	9.6	20.8
6 30	19 39.11	−10 23.7	2.051	3.028	6.5	20.6
7 10	19 30.88	−11 6.4	2.017	3.020	3.9	20.4
7 20	19 22.27	−11 58.3	2.010	3.011	4.1	20.4
7 30	19 14.12	−12 56.0	2.031	3.002	6.9	20.5
8 9	19 7.24	−13 56.0	2.079	2.992	10.1	20.7
8 19	19 2.24	−14 55.3	2.149	2.982	13.0	20.9

61672 2000 QQ_{120} 7 12.7 295°.52 2°.1/13.4 18

6 10	19 50.97	−15 53.4	2.047	2.917	12.3	18.7
6 20	19 45.88	−15 44.3	1.966	2.907	9.2	18.5
6 30	19 38.96	−15 42.0	1.907	2.897	5.7	18.3
7 10	19 30.85	−15 45.6	1.875	2.887	2.5	18.0
7 20	19 22.38	−15 53.7	1.870	2.877	3.4	18.1
7 30	19 14.47	−16 4.9	1.891	2.867	7.0	18.3
8 9	19 7.97	−16 17.7	1.938	2.857	10.5	18.5
8 19	19 3.49	−16 30.8	2.007	2.847	13.6	18.7

235271 2003 TX_{37} 7 12.7 69°.71 2°.5/13.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 53.89	−16 13.1	1.759	2.632	13.8	20.2
6 20	19 48.03	−15 50.3	1.698	2.641	10.3	20.0
6 30	19 40.16	−15 34.4	1.661	2.650	6.4	19.8
7 10	19 31.10	−15 24.8	1.649	2.660	2.9	19.6
7 20	19 21.84	−15 20.4	1.663	2.669	3.8	19.7
7 30	19 13.45	−15 20.1	1.703	2.678	7.6	19.9
8 9	19 6.80	−15 22.7	1.768	2.688	11.2	20.2
8 19	19 2.47	−15 27.0	1.855	2.697	14.4	20.4

442516 2011 WE_{79} 7 12.7 119°.60 2°.7/13.6 18

6 10	19 51.38	−14 12.4	2.222	3.083	11.8	21.2
6 20	19 45.94	−13 55.3	2.151	3.086	8.9	21.0
6 30	19 38.87	−13 45.3	2.104	3.089	5.7	20.8
7 10	19 30.83	−13 41.9	2.083	3.091	3.0	20.6
7 20	19 22.56	−13 44.1	2.090	3.094	3.6	20.7
7 30	19 14.89	−13 51.0	2.125	3.097	6.6	20.9
8 9	19 8.55	−14 0.9	2.185	3.099	9.7	21.1
8 19	19 4.06	−14 12.6	2.268	3.102	12.4	21.3

68640 2002 CX_{38} 7 12.7 12°.09 15°.1/24.3 18

6 10	19 48.56	+16 57.9	1.430	2.176	22.5	18.9
6 20	19 44.63	+17 0.5	1.369	2.179	20.4	18.8
6 30	19 38.42	+16 21.5	1.322	2.183	18.3	18.6
7 10	19 30.77	+14 56.3	1.291	2.188	16.4	18.5
7 20	19 22.74	+12 45.9	1.281	2.195	15.2	18.5
7 30	19 15.52	+ 9 56.8	1.291	2.202	15.3	18.5
8 9	19 10.19	+ 6 41.6	1.324	2.210	16.6	18.6
8 19	19 7.41	+ 3 15.0	1.379	2.219	18.6	18.8

397023 2005 TN_{163} 7 12.7 240°.47 4°.8/14.6 18

6 10	19 49.86	− 7 0.5	2.392	3.229	11.9	21.5
6 20	19 44.80	− 6 38.1	2.311	3.223	9.4	21.3
6 30	19 38.23	− 6 26.9	2.253	3.217	6.9	21.1
7 10	19 30.71	− 6 27.3	2.221	3.211	5.0	21.0
7 20	19 22.90	− 6 38.9	2.216	3.204	5.1	21.0
7 30	19 15.55	− 7 0.4	2.239	3.198	7.1	21.1
8 9	19 9.35	− 7 29.5	2.286	3.191	9.7	21.3
8 19	19 4.82	− 8 3.5	2.357	3.184	12.2	21.4

1084 Tamariwa 7 12.7 355°.29 2°.9/13.6 18 R

6 10	19 50.30	−14 39.7	1.455	2.340	15.5	14.3
6 20	19 45.92	−14 35.9	1.389	2.337	11.6	14.0
6 30	19 39.18	−14 43.5	1.343	2.334	7.3	13.8
7 10	19 30.94	−15 1.1	1.321	2.333	3.4	13.6
7 20	19 22.28	−15 26.3	1.324	2.331	4.3	13.6
7 30	19 14.46	−15 56.2	1.351	2.331	8.6	13.9
8 9	19 8.54	−16 27.5	1.401	2.331	12.8	14.1
8 19	19 5.25	−16 57.9	1.471	2.332	16.5	14.3

234030 1998 SR_{78} 7 12.7 305°.70 9°.5/15.7 18

6 10	19 49.46	+ 0 56.8	1.726	2.548	16.3	20.1
6 20	19 45.15	+ 1 42.3	1.638	2.527	13.9	19.9
6 30	19 38.73	+ 2 7.5	1.570	2.506	11.5	19.7
7 10	19 30.86	+ 2 8.9	1.524	2.485	9.8	19.5
7 20	19 22.40	+ 1 45.0	1.501	2.464	9.7	19.5
7 30	19 14.41	+ 0 57.4	1.501	2.443	11.3	19.5
8 9	19 7.90	− 0 9.5	1.524	2.423	14.0	19.6
8 19	19 3.63	− 1 29.3	1.566	2.403	16.9	19.8

161747 2006 SY_{272} 7 12.7 341°.93 2°.2/13.2 17

6 10	19 46.92	−17 9.9	0.993	1.908	18.4	19.1
6 20	19 44.40	−17 7.9	0.927	1.892	13.8	18.8
6 30	19 38.75	−17 18.5	0.878	1.877	8.4	18.5
7 10	19 30.91	−17 40.1	0.849	1.864	3.0	18.1
7 20	19 22.30	−18 9.1	0.841	1.852	4.8	18.2
7 30	19 14.68	−18 41.3	0.854	1.842	10.7	18.5
8 9	19 9.62	−19 12.6	0.886	1.834	16.2	18.7
8 19	19 8.07	−19 39.9	0.935	1.828	21.0	19.0

446495 2014 KE_{54} 7 12.7 40°.92 7°.7/15.6 16

6 10	19 49.65	− 0 57.1	2.037	2.857	14.2	21.2
6 20	19 44.75	− 0 9.1	1.975	2.865	11.8	21.1
6 30	19 38.22	+ 0 22.1	1.935	2.873	9.5	21.0
7 10	19 30.71	+ 0 34.8	1.919	2.882	7.9	20.9
7 20	19 22.98	+ 0 28.6	1.927	2.891	7.8	20.9
7 30	19 15.88	+ 0 5.1	1.960	2.900	9.3	21.0
8 9	19 10.14	− 0 32.2	2.017	2.909	11.4	21.1
8 19	19 6.27	− 1 19.0	2.096	2.919	13.7	21.3

427496 2002 BF_{32} 7 12.7 139°.56 4°.7/14.3 17

6 10	19 54.42	− 8 32.5	2.140	2.980	13.0	22.0
6 20	19 48.10	− 8 2.6	2.076	2.992	10.1	21.8
6 30	19 40.10	− 7 43.8	2.035	3.003	7.2	21.7
7 10	19 31.10	− 7 36.5	2.020	3.013	5.0	21.5
7 20	19 21.92	− 7 40.1	2.032	3.023	5.2	21.6
7 30	19 13.42	− 7 53.4	2.072	3.033	7.5	21.7
8 9	19 6.36	− 8 14.1	2.138	3.041	10.3	21.9
8 19	19 1.24	− 8 39.5	2.226	3.050	13.0	22.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
139022 2001 DL_{64}			7 12.7 188°.02		2°.2/12.2 18	
	h m	° ′			°	m
6 10	19 58.39	−26 56.5	1.576	2.461	14.5	19.6
6 20	19 51.78	−27 7.9	1.510	2.461	10.7	19.3
6 30	19 42.54	−27 17.6	1.466	2.460	6.3	19.1
7 10	19 31.66	−27 21.5	1.446	2.460	2.5	18.8
7 20	19 20.41	−27 16.7	1.454	2.459	4.5	19.0
7 30	19 10.20	−27 2.2	1.486	2.458	8.8	19.2
8 9	19 2.22	−26 39.4	1.543	2.457	13.0	19.5
8 19	18 57.16	−26 10.9	1.620	2.455	16.5	19.7
497264 2005 JF_{106}			7 12.7 115°.55		0°.1/12.7 17	
6 10	19 56.51	−19 57.8	1.605	2.486	14.5	21.9
6 20	19 50.18	−20 22.1	1.549	2.498	10.6	21.7
6 30	19 41.52	−20 52.4	1.514	2.510	6.1	21.5
7 10	19 31.43	−21 24.7	1.505	2.521	1.3	21.2
7 20	19 21.08	−21 55.5	1.523	2.532	3.5	21.4
7 30	19 11.71	−22 21.9	1.567	2.543	8.0	21.7
8 9	19 4.35	−22 42.5	1.635	2.553	12.1	21.9
8 19	18 59.66	−22 57.2	1.724	2.563	15.5	22.2
102199 1999 SE_{13}			7 12.7 204°.73		5°.0/10.1 18	
6 10	19 57.20	−35 19.4	2.402	3.267	10.9	20.2
6 20	19 50.50	−36 23.4	2.329	3.261	8.4	20.0
6 30	19 41.69	−37 22.3	2.281	3.255	6.1	19.8
7 10	19 31.49	−38 10.7	2.260	3.249	5.0	19.8
7 20	19 20.83	−38 44.5	2.267	3.242	6.1	19.8
7 30	19 10.77	−39 1.6	2.302	3.234	8.4	19.9
8 9	19 2.30	−39 2.9	2.361	3.226	11.0	20.1
8 19	18 56.09	−38 51.0	2.441	3.217	13.3	20.2
489591 2007 TM_{137}			7 12.7 261°.64		3°.5/13.8 18	
6 10	19 52.73	−11 46.1	2.293	3.144	11.8	21.9
6 20	19 47.09	−11 27.1	2.195	3.121	9.1	21.7
6 30	19 39.68	−11 16.3	2.120	3.098	6.2	21.5
7 10	19 31.07	−11 13.8	2.072	3.075	3.8	21.3
7 20	19 22.00	−11 19.0	2.051	3.051	4.2	21.3
7 30	19 13.32	−11 30.8	2.059	3.026	7.1	21.4
8 9	19 5.85	−11 47.7	2.092	3.001	10.3	21.5
8 19	19 0.24	−12 7.8	2.148	2.976	13.2	21.7
443038 2013 EZ_{67}			7 12.7 78°.54		3°.8/14.6 16	
6 10	19 49.70	− 8 56.7	2.307	3.154	11.9	21.2
6 20	19 44.63	− 8 55.8	2.246	3.167	9.2	21.1
6 30	19 38.09	− 9 6.0	2.208	3.181	6.4	20.9
7 10	19 30.70	− 9 26.6	2.196	3.195	4.2	20.8
7 20	19 23.14	− 9 56.1	2.212	3.208	4.3	20.8
7 30	19 16.16	−10 32.3	2.254	3.222	6.6	21.0
8 9	19 10.41	−11 12.3	2.323	3.235	9.3	21.2
8 19	19 6.37	−11 53.7	2.415	3.249	11.8	21.4
479980 2014 JE_{58}			7 12.7 140°.04		2°.1/13.8 18	
6 10	19 50.39	−13 20.6	2.212	3.074	11.8	21.0
6 20	19 45.32	−13 50.2	2.140	3.075	8.9	20.8
6 30	19 38.60	−14 29.7	2.091	3.077	5.6	20.6
7 10	19 30.83	−15 16.9	2.068	3.079	2.5	20.4
7 20	19 22.76	−16 9.1	2.074	3.081	3.1	20.4
7 30	19 15.21	−17 2.9	2.107	3.082	6.4	20.7
8 9	19 8.96	−17 55.5	2.167	3.084	9.6	20.9
8 19	19 4.55	−18 44.5	2.249	3.085	12.4	21.0
142844 2002 VQ_{21}			7 12.7 149°.94		11°.3/15.8 18	
6 10	19 54.96	+ 5 56.5	1.880	2.660	16.7	19.7
6 20	19 48.76	+ 7 24.7	1.818	2.666	14.6	19.5
6 30	19 40.62	+ 8 31.3	1.777	2.671	12.7	19.4
7 10	19 31.27	+ 9 12.1	1.757	2.677	11.5	19.4
7 20	19 21.61	+ 9 24.9	1.762	2.682	11.4	19.4
7 30	19 12.65	+ 9 10.5	1.789	2.686	12.4	19.4
8 9	19 5.26	+ 8 33.1	1.838	2.690	14.2	19.6
8 19	19 0.06	+ 7 38.4	1.907	2.694	16.1	19.7
238703 2005 FR_{4}			7 12.7 111°.92		6°.2/15.2 18	
6 10	19 52.05	− 3 47.4	2.105	2.931	13.6	20.5
6 20	19 46.42	− 3 18.7	2.043	2.944	11.0	20.4
6 30	19 39.16	− 3 5.0	2.005	2.957	8.4	20.2
7 10	19 30.94	− 3 6.9	1.991	2.969	6.5	20.2
7 20	19 22.54	− 3 24.1	2.003	2.981	6.5	20.2
7 30	19 14.78	− 3 54.3	2.042	2.993	8.2	20.3
8 9	19 8.41	− 4 34.4	2.105	3.004	10.7	20.5
8 19	19 3.92	− 5 20.6	2.191	3.015	13.1	20.7
92161 1999 XV_{144}			7 12.7 195°.00		3°.4/10.9 18	
6 10	19 52.58	−30 53.3	2.473	3.347	10.3	19.7
6 20	19 46.95	−31 41.1	2.403	3.346	7.7	19.6
6 30	19 39.55	−32 26.3	2.358	3.345	5.0	19.4
7 10	19 31.05	−33 5.0	2.341	3.344	3.4	19.3
7 20	19 22.22	−33 34.0	2.351	3.342	4.6	19.4
7 30	19 13.97	−33 51.5	2.389	3.341	7.1	19.5
8 9	19 7.09	−33 57.6	2.452	3.339	9.8	19.7
8 19	19 2.16	−33 53.7	2.537	3.338	12.2	19.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
390831 2004 PF_{44}			7 12.7 27°.04		5°.7/16.0 17	
	h m	° ′			°	m
6 10	19 48.65	− 4 10.8	1.526	2.380	16.6	19.9
6 20	19 44.45	− 4 49.0	1.475	2.396	13.1	19.7
6 30	19 38.22	− 5 49.8	1.443	2.413	9.4	19.5
7 10	19 30.76	− 7 11.1	1.436	2.431	6.4	19.4
7 20	19 23.07	− 8 47.6	1.453	2.450	6.0	19.4
7 30	19 16.21	−10 32.5	1.495	2.469	8.6	19.6
8 9	19 11.09	−12 18.3	1.562	2.490	11.9	19.9
8 19	19 8.29	−13 59.1	1.651	2.511	15.1	20.1
361455 2007 CQ_{18}			7 12.7 72°.37		3°.7/11.4 18	
6 10	19 54.21	−32 43.4	2.262	3.136	11.1	21.3
6 20	19 48.17	−33 7.5	2.197	3.138	8.3	21.2
6 30	19 40.25	−33 26.6	2.156	3.141	5.5	21.0
7 10	19 31.19	−33 36.9	2.141	3.143	3.8	20.9
7 20	19 21.91	−33 36.1	2.154	3.146	4.9	21.0
7 30	19 13.39	−33 23.4	2.194	3.149	7.5	21.1
8 9	19 6.46	−33 0.3	2.259	3.151	10.3	21.3
8 19	19 1.70	−32 29.0	2.346	3.154	12.9	21.5
338546 2003 SB_{35}			7 12.7 288°.16		0°.4/12.6 18	
6 10	19 53.21	−21 59.8	1.777	2.661	13.2	21.1
6 20	19 47.93	−22 15.3	1.694	2.645	9.7	20.9
6 30	19 40.36	−22 34.7	1.633	2.629	5.6	20.6
7 10	19 31.26	−22 54.9	1.598	2.614	1.2	20.3
7 20	19 21.62	−23 13.0	1.589	2.598	3.4	20.4
7 30	19 12.62	−23 26.6	1.607	2.582	7.9	20.6
8 9	19 5.33	−23 34.8	1.648	2.567	12.0	20.9
8 19	19 0.51	−23 37.7	1.711	2.551	15.5	21.1
462480 2008 UO_{291}			7 12.7 249°.34		3°.1/13.4 17	
6 10	19 56.39	−15 40.9	1.329	2.212	16.8	21.9
6 20	19 50.63	−15 21.0	1.259	2.207	12.6	21.7
6 30	19 42.06	−15 10.8	1.210	2.202	7.9	21.4
7 10	19 31.64	−15 9.4	1.184	2.196	3.6	21.1
7 20	19 20.66	−15 15.3	1.183	2.190	4.8	21.2
7 30	19 10.64	−15 26.6	1.206	2.184	9.6	21.4
8 9	19 2.88	−15 40.9	1.251	2.178	14.3	21.7
8 19	18 58.21	−15 56.5	1.316	2.172	18.4	21.9
359593 2010 VD_{59}			7 12.7 337°.93		2°.6/11.8 18	
6 10	19 53.31	−29 27.7	2.241	3.118	11.1	20.6
6 20	19 47.51	−29 41.0	2.171	3.117	8.2	20.4
6 30	19 39.87	−29 51.2	2.124	3.116	5.0	20.2
7 10	19 31.12	−29 55.3	2.105	3.114	2.7	20.1
7 20	19 22.12	−29 51.3	2.113	3.113	4.0	20.2
7 30	19 13.82	−29 38.5	2.148	3.113	7.0	20.3
8 9	19 7.06	−29 17.6	2.209	3.112	10.1	20.5
8 19	19 2.38	−28 50.6	2.292	3.111	12.8	20.7
364548 2007 GN_{21}			7 12.7 180°.00		7°.6/16.9 18	
6 10	19 48.82	+ 8 38.1	3.305	4.039	11.0	21.7
6 20	19 43.70	+ 9 19.6	3.229	4.040	9.7	21.6
6 30	19 37.49	+ 9 46.5	3.175	4.041	8.5	21.5
7 10	19 30.60	+ 9 57.2	3.145	4.041	7.7	21.5
7 20	19 23.52	+ 9 51.0	3.141	4.041	7.6	21.5
7 30	19 16.78	+ 9 28.8	3.162	4.040	8.2	21.5
8 9	19 10.87	+ 8 52.7	3.207	4.039	9.2	21.6
8 19	19 6.18	+ 8 5.9	3.274	4.038	10.5	21.7
521559 2015 OW_{103}			7 12.7 307°.08		2°.3/11.4 17	
6 10	19 51.60	−24 5.8	1.995	2.878	12.0	20.8
6 20	19 46.82	−25 18.9	1.897	2.848	8.8	20.6
6 30	19 39.82	−26 38.6	1.823	2.819	5.3	20.3
7 10	19 31.19	−27 59.7	1.777	2.789	2.4	20.0
7 20	19 21.78	−29 16.3	1.757	2.760	4.4	20.1
7 30	19 12.69	−30 23.3	1.765	2.730	8.2	20.3
8 9	19 5.03	−31 17.8	1.798	2.701	12.0	20.5
8 19	18 59.65	−31 59.2	1.852	2.673	15.3	20.6
478031 2011 SH_{240}			7 12.7 244°.01		0°.9/12.3 18	
6 10	19 52.81	−23 29.8	2.118	2.995	11.6	21.7
6 20	19 47.25	−23 49.4	2.042	2.990	8.5	21.5
6 30	19 39.79	−24 10.9	1.990	2.985	4.9	21.3
7 10	19 31.13	−24 31.6	1.964	2.979	1.3	21.0
7 20	19 22.12	−24 48.6	1.966	2.974	3.2	21.2
7 30	19 13.73	−25 0.3	1.996	2.968	6.9	21.4
8 9	19 6.83	−25 6.1	2.051	2.962	10.3	21.6
8 19	19 2.02	−25 6.3	2.128	2.956	13.3	21.8
440745 2006 BQ_{254}			7 12.7 261°.91		3°.8/14.8 18	
6 10	19 49.43	− 7 10.1	2.726	3.559	10.7	21.8
6 20	19 44.47	− 7 21.4	2.626	3.538	8.5	21.6
6 30	19 38.10	− 7 44.1	2.550	3.517	6.0	21.4
7 10	19 30.77	− 8 18.0	2.501	3.495	4.1	21.3
7 20	19 23.06	− 9 1.6	2.480	3.474	4.2	21.3
7 30	19 15.64	− 9 52.7	2.487	3.451	6.2	21.4
8 9	19 9.18	−10 48.5	2.522	3.429	8.8	21.5
8 19	19 4.18	−11 46.2	2.580	3.406	11.3	21.6

480656 2015 OP_{15} 7 12.7 260°.80 0°.6/12.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 51.20	−21 14.2	2.276	3.151	11.0	20.8
6 20	19 46.04	−21 57.6	2.195	3.142	8.0	20.6
6 30	19 39.10	−22 45.8	2.138	3.132	4.6	20.3
7 10	19 30.99	−23 35.5	2.107	3.123	1.1	20.1
7 20	19 22.46	−24 23.3	2.106	3.113	2.9	20.2
7 30	19 14.41	−25 6.2	2.132	3.103	6.5	20.4
8 9	19 7.66	−25 42.4	2.184	3.094	9.9	20.6
8 19	19 2.82	−26 11.1	2.258	3.084	12.7	20.8

512750 2016 UF_{35} 7 12.7 292°.93 4°.7/10.5 18

6 10	19 53.61	−33 12.9	2.107	2.985	11.7	21.2
6 20	19 48.07	−34 11.6	2.036	2.978	8.9	21.0
6 30	19 40.38	−35 6.3	1.989	2.972	6.2	20.8
7 10	19 31.28	−35 51.8	1.969	2.966	4.7	20.7
7 20	19 21.73	−36 23.8	1.975	2.959	6.0	20.8
7 30	19 12.85	−36 40.0	2.007	2.953	8.7	21.0
8 9	19 5.64	−36 41.1	2.063	2.947	11.6	21.1
8 19	19 0.78	−36 29.2	2.140	2.941	14.2	21.3

282782 2006 KK_{18} 7 12.7 254°.72 7°.8/15.9 17

6 10	19 50.83	+ 0 5.2	2.023	2.836	14.6	20.8
6 20	19 45.83	+ 0 31.1	1.939	2.825	12.2	20.6
6 30	19 39.01	+ 0 38.7	1.877	2.814	9.8	20.5
7 10	19 30.98	+ 0 26.2	1.838	2.803	8.1	20.3
7 20	19 22.53	− 0 6.4	1.824	2.791	7.9	20.3
7 30	19 14.56	− 0 57.0	1.836	2.780	9.5	20.4
8 9	19 7.93	− 2 1.4	1.872	2.768	12.0	20.5
8 19	19 3.25	− 3 14.5	1.929	2.756	14.6	20.6

349377 2007 VC_{323} 7 12.7 255°.90 4°.7/10.8 18

6 10	19 56.03	−34 0.3	2.176	3.048	11.6	21.1
6 20	19 49.83	−34 44.5	2.095	3.034	8.9	20.9
6 30	19 41.41	−35 23.9	2.038	3.019	6.2	20.7
7 10	19 31.51	−35 53.4	2.007	3.004	4.7	20.6
7 20	19 21.12	−36 9.1	2.003	2.988	5.9	20.6
7 30	19 11.37	−36 9.4	2.026	2.972	8.6	20.8
8 9	19 3.30	−35 55.2	2.073	2.956	11.5	20.9
8 19	18 57.63	−35 29.2	2.142	2.940	14.2	21.1

149537 2003 GE_{42} 7 12.7 9°.52 23°.4/12.8 18

6 10	19 36.64	+31 28.5	0.931	1.648	33.7	16.9
6 20	19 36.73	+31 55.1	0.897	1.654	32.3	16.8
6 30	19 34.14	+31 15.8	0.869	1.665	30.5	16.7
7 10	19 29.94	+29 22.6	0.848	1.680	28.4	16.6
7 20	19 25.43	+26 13.1	0.837	1.698	26.2	16.6
7 30	19 22.04	+21 54.4	0.841	1.719	24.4	16.5
8 9	19 20.91	+16 45.8	0.861	1.744	23.5	16.6
8 19	19 22.67	+11 13.4	0.901	1.771	23.6	16.7

435843 2008 WC_{106} 7 12.7 82°.76 7°.5/ 9.6 17

6 10	19 58.25	−39 14.7	1.824	2.695	13.5	20.6
6 20	19 51.75	−40 32.8	1.775	2.704	10.8	20.5
6 30	19 42.59	−41 40.5	1.749	2.714	8.4	20.4
7 10	19 31.76	−42 30.4	1.748	2.723	7.5	20.3
7 20	19 20.55	−42 57.7	1.771	2.733	8.6	20.4
7 30	19 10.42	−43 1.2	1.819	2.742	10.9	20.6
8 9	19 2.55	−42 43.6	1.890	2.751	13.5	20.8
8 19	18 57.65	−42 9.9	1.980	2.761	15.8	21.0

312288 2008 BP_{21} 7 12.7 315°.36 3°.8/11.6 18

6 10	19 54.85	−31 54.1	1.970	2.850	12.3	20.5
6 20	19 48.94	−32 11.4	1.897	2.842	9.2	20.3
6 30	19 40.84	−32 23.6	1.847	2.835	6.0	20.1
7 10	19 31.37	−32 26.7	1.823	2.829	3.8	19.9
7 20	19 21.57	−32 18.0	1.826	2.822	5.1	20.0
7 30	19 12.58	−31 56.9	1.855	2.816	8.2	20.2
8 9	19 5.39	−31 25.2	1.909	2.810	11.5	20.4
8 19	19 0.65	−30 45.5	1.983	2.804	14.4	20.5

253843 2003 YK_{128} 7 12.7 205°.38 3°.3/11.7 17

6 10	19 59.05	−29 33.0	1.864	2.740	13.0	21.6
6 20	19 52.11	−30 2.5	1.790	2.736	9.7	21.4
6 30	19 42.74	−30 29.0	1.741	2.731	6.1	21.2
7 10	19 31.81	−30 47.9	1.717	2.725	3.4	21.0
7 20	19 20.44	−30 55.3	1.720	2.719	4.9	21.1
7 30	19 9.92	−30 50.0	1.750	2.712	8.5	21.3
8 9	19 1.37	−30 33.2	1.805	2.705	12.1	21.5
8 19	18 55.50	−30 7.5	1.881	2.697	15.3	21.7

384876 2012 SO_{46} 7 12.7 83°.38 2°.2/13.5 17

6 10	19 52.70	−15 29.3	1.783	2.656	13.7	21.4
6 20	19 47.32	−15 31.0	1.715	2.658	10.2	21.1
6 30	19 39.90	−15 41.4	1.669	2.659	6.3	20.9
7 10	19 31.19	−15 58.9	1.648	2.660	2.7	20.7
7 20	19 22.15	−16 21.4	1.654	2.661	3.6	20.8
7 30	19 13.84	−16 46.3	1.686	2.662	7.5	21.0
8 9	19 7.20	−17 11.6	1.742	2.663	11.3	21.2
8 19	19 2.84	−17 35.5	1.820	2.665	14.6	21.4

278145 2007 CD_{66} 7 12.7 118°.13 9°.8/ 9.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	20 7.82	−55 35.5	2.592	3.380	12.4	20.7
6 20	19 58.40	−56 21.7	2.547	3.390	11.1	20.6
6 30	19 46.22	−56 48.9	2.524	3.400	10.1	20.5
7 10	19 32.52	−56 51.7	2.524	3.409	9.8	20.5
7 20	19 18.79	−56 27.6	2.548	3.418	10.2	20.6
7 30	19 6.55	−55 37.9	2.595	3.427	11.2	20.6
8 9	18 56.96	−54 27.3	2.664	3.436	12.5	20.8
8 19	18 50.58	−53 1.8	2.753	3.445	13.8	20.9

118846 2000 SU_{245} 7 12.7 278°.77 0°.3/12.6 18

6 10	19 53.61	−21 6.9	1.702	2.586	13.7	20.2
6 20	19 48.30	−21 30.4	1.623	2.574	10.0	20.0
6 30	19 40.63	−21 59.3	1.566	2.562	5.8	19.7
7 10	19 31.39	−22 30.2	1.534	2.550	1.3	19.3
7 20	19 21.59	−22 59.6	1.528	2.537	3.5	19.5
7 30	19 12.46	−23 24.4	1.549	2.525	8.1	19.7
8 9	19 5.12	−23 43.2	1.593	2.513	12.3	19.9
8 19	19 0.33	−23 55.6	1.658	2.500	15.9	20.2

20848 2000 UA_{105} 7 12.7 10°.88 12°.3/ 7.8 18

6 10	19 51.96	−41 7.1	1.045	1.950	18.6	16.2
6 20	19 48.68	−43 18.4	1.009	1.953	15.4	16.0
6 30	19 41.45	−45 13.1	0.992	1.959	13.0	15.9
7 10	19 31.60	−46 37.2	0.996	1.966	12.4	15.9
7 20	19 21.13	−47 21.8	1.018	1.975	13.9	16.0
7 30	19 12.34	−47 25.2	1.060	1.986	16.5	16.2
8 9	19 7.00	−46 53.7	1.119	1.998	19.4	16.4
8 19	19 5.90	−45 55.9	1.193	2.012	22.1	16.7

248214 2005 ED_{117} 7 12.7 225°.10 2°.1/13.6 16

6 10	19 52.00	−14 55.8	2.023	2.890	12.6	21.3
6 20	19 46.67	−15 3.3	1.947	2.886	9.4	21.1
6 30	19 39.49	−15 19.3	1.894	2.883	5.8	20.8
7 10	19 31.12	−15 42.2	1.868	2.879	2.6	20.6
7 20	19 22.41	−16 9.9	1.868	2.875	3.4	20.7
7 30	19 14.28	−16 40.1	1.896	2.871	6.9	20.9
8 9	19 7.60	−17 10.4	1.949	2.867	10.4	21.1
8 19	19 2.96	−17 39.1	2.025	2.863	13.5	21.3

311441 2005 UV_{232} 7 12.7 49°.34 10°.3/16.5 17

6 10	19 50.40	+ 6 32.1	2.115	2.890	15.2	20.1
6 20	19 45.32	+ 7 46.4	2.055	2.898	13.4	20.0
6 30	19 38.61	+ 8 40.5	2.016	2.906	11.7	19.9
7 10	19 30.92	+ 9 11.0	1.999	2.914	10.5	19.8
7 20	19 23.00	+ 9 16.7	2.006	2.923	10.4	19.8
7 30	19 15.66	+ 8 58.6	2.035	2.931	11.2	19.9
8 9	19 9.66	+ 8 20.3	2.087	2.940	12.7	20.0
8 19	19 5.49	+ 7 26.9	2.159	2.949	14.4	20.1

211546 2003 SN_{40} 7 12.7 358°.50 2°.7/13.1 17

6 10	19 51.43	−18 33.4	1.004	1.914	18.6	19.0
6 20	19 47.53	−17 53.9	0.948	1.910	13.9	18.7
6 30	19 40.47	−17 21.7	0.910	1.907	8.5	18.4
7 10	19 31.38	−16 56.6	0.892	1.906	3.3	18.1
7 20	19 21.82	−16 38.2	0.896	1.906	5.0	18.2
7 30	19 13.52	−16 25.6	0.922	1.907	10.6	18.5
8 9	19 7.91	−16 17.8	0.967	1.910	15.8	18.8
8 19	19 5.76	−16 13.2	1.030	1.914	20.2	19.1

123364 2000 WN_{31} 7 12.7 253°.00 5°.0/14.7 18

6 10	19 49.84	− 6 30.8	2.355	3.192	12.1	19.9
6 20	19 44.87	− 6 10.0	2.273	3.184	9.6	19.7
6 30	19 38.37	− 6 0.8	2.215	3.177	7.1	19.6
7 10	19 30.89	− 6 3.8	2.181	3.169	5.2	19.4
7 20	19 23.09	− 6 18.7	2.174	3.161	5.3	19.4
7 30	19 15.76	− 6 43.9	2.195	3.154	7.3	19.5
8 9	19 9.58	− 7 17.0	2.241	3.146	9.9	19.7
8 19	19 5.08	− 7 55.1	2.309	3.138	12.4	19.8

225950 2002 CC_{2} 7 12.7 248°.77 4°.5/11.4 18

6 10	19 58.93	−33 15.4	1.936	2.809	12.7	20.5
6 20	19 52.12	−33 42.7	1.854	2.795	9.7	20.3
6 30	19 42.82	−34 4.0	1.797	2.781	6.5	20.1
7 10	19 31.88	−34 14.4	1.765	2.766	4.5	19.9
7 20	19 20.44	−34 10.1	1.759	2.751	5.8	20.0
7 30	19 9.80	−33 50.3	1.781	2.736	9.0	20.1
8 9	19 1.12	−33 17.0	1.827	2.720	12.4	20.3
8 19	18 55.15	−32 33.6	1.894	2.703	15.4	20.5

222477 2001 SG_{84} 7 12.7 296°.59 3°.7/13.7 17

6 10	19 52.52	−13 14.4	1.519	2.396	15.4	20.7
6 20	19 47.74	−13 1.9	1.432	2.374	11.8	20.4
6 30	19 40.46	−13 1.0	1.366	2.353	7.8	20.1
7 10	19 31.40	−13 11.5	1.323	2.332	4.2	19.8
7 20	19 21.64	−13 32.2	1.306	2.311	4.9	19.8
7 30	19 12.46	−14 0.3	1.313	2.290	9.1	20.0
8 9	19 5.09	−14 32.9	1.343	2.269	13.5	20.2
8 19	19 0.42	−15 7.1	1.393	2.249	17.5	20.4

463949 2014 US_{215} 7 12.7 192°.82 3°.5/13.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 55.46	−11 54.9	1.724	2.585	14.6	21.7
6 20	19 49.45	−11 59.6	1.651	2.584	11.2	21.4
6 30	19 41.21	−12 16.7	1.599	2.582	7.3	21.2
7 10	19 31.53	−12 45.1	1.573	2.580	3.9	21.0
7 20	19 21.41	−13 22.2	1.573	2.577	4.5	21.0
7 30	19 12.00	−14 4.8	1.600	2.573	8.1	21.2
8 9	19 4.33	−14 49.4	1.651	2.569	12.0	21.5
8 19	18 59.09	−15 33.3	1.725	2.565	15.4	21.7

279261 2009 VZ_{70} 7 12.7 358°.20 5°.3/10.6 18

6 10	19 48.79	−27 43.7	1.089	2.005	17.0	18.7
6 20	19 45.80	−29 12.8	1.034	2.000	12.6	18.4
6 30	19 39.60	−30 45.0	0.999	1.997	8.0	18.2
7 10	19 31.23	−32 10.2	0.986	1.995	5.3	18.0
7 20	19 22.19	−33 18.9	0.995	1.994	7.6	18.1
7 30	19 14.28	−34 5.0	1.026	1.996	12.1	18.4
8 9	19 9.06	−34 27.9	1.076	1.998	16.5	18.6
8 19	19 7.40	−34 30.2	1.143	2.003	20.3	18.9

268747 2006 QK_{48} 7 12.7 244°.71 10°.1/ 9.0 18

6 10	20 10.37	−49 5.6	2.065	2.888	14.0	21.6
6 20	20 1.09	−50 6.4	1.985	2.869	12.1	21.4
6 30	19 48.30	−50 50.5	1.927	2.848	10.6	21.3
7 10	19 33.11	−51 9.1	1.894	2.826	10.1	21.2
7 20	19 17.21	−50 56.3	1.885	2.803	10.9	21.2
7 30	19 2.54	−50 11.7	1.900	2.780	12.7	21.3
8 9	18 50.73	−49 0.3	1.938	2.755	14.9	21.4
8 19	18 42.70	−47 30.1	1.995	2.730	17.2	21.5

513790 2013 BH_{61} 7 12.7 107°.20 3°.6/11.6 18

6 10	19 57.17	−34 4.0	2.511	3.375	10.5	21.4
6 20	19 50.04	−34 15.0	2.456	3.391	7.9	21.3
6 30	19 41.22	−34 19.5	2.426	3.407	5.3	21.1
7 10	19 31.49	−34 14.5	2.423	3.423	3.7	21.0
7 20	19 21.70	−33 58.7	2.449	3.439	4.5	21.1
7 30	19 12.75	−33 32.2	2.503	3.454	6.9	21.3
8 9	19 5.39	−32 56.7	2.583	3.469	9.4	21.5
8 19	19 0.09	−32 15.0	2.685	3.483	11.7	21.7

483891 2006 AB_{4} 7 12.7 280°.99 2°.3/11.5 17

6 10	19 52.99	−26 33.9	2.421	3.295	10.5	21.9
6 20	19 47.50	−27 22.4	2.320	3.266	7.7	21.6
6 30	19 40.09	−28 12.8	2.245	3.237	4.7	21.4
7 10	19 31.31	−29 1.1	2.196	3.207	2.4	21.2
7 20	19 21.94	−29 43.4	2.176	3.177	3.9	21.3
7 30	19 12.89	−30 17.0	2.184	3.146	7.1	21.4
8 9	19 5.07	−30 40.6	2.218	3.115	10.3	21.6
8 19	18 59.21	−30 54.4	2.275	3.084	13.2	21.7

156414 2002 AS_{67} 7 12.7 57°.06 1°.9/11.9 17

6 10	19 55.29	−21 55.2	1.432	2.323	15.4	19.5
6 20	19 49.55	−23 15.1	1.391	2.346	11.0	19.3
6 30	19 41.29	−24 40.5	1.372	2.369	6.3	19.0
7 10	19 31.54	−26 3.9	1.378	2.393	2.1	18.8
7 20	19 21.55	−27 18.3	1.410	2.416	4.5	19.1
7 30	19 12.69	−28 18.9	1.468	2.440	8.9	19.4
8 9	19 6.05	−29 4.4	1.549	2.464	12.8	19.7
8 19	19 2.26	−29 35.4	1.651	2.488	16.1	19.9

123337 2000 VE_{46} 7 12.7 134°.93 4°.0/14.1 17

6 10	19 54.63	−10 25.8	2.212	3.056	12.4	20.5
6 20	19 48.25	− 9 59.6	2.148	3.069	9.6	20.3
6 30	19 40.25	− 9 42.8	2.108	3.082	6.6	20.2
7 10	19 31.30	− 9 35.6	2.095	3.094	4.3	20.0
7 20	19 22.18	− 9 37.4	2.110	3.106	4.6	20.1
7 30	19 13.73	− 9 46.9	2.153	3.117	7.0	20.3
8 9	19 6.69	−10 2.1	2.221	3.127	9.9	20.5
8 19	19 1.56	−10 21.2	2.312	3.137	12.5	20.6

286268 2001 VN_{51} 7 12.7 311°.43 6°.7/10.2 18

6 10	19 56.47	−38 48.9	1.956	2.826	12.8	19.8
6 20	19 50.40	−39 40.9	1.890	2.821	10.1	19.6
6 30	19 41.84	−40 23.7	1.846	2.815	7.8	19.4
7 10	19 31.68	−40 51.0	1.828	2.809	6.7	19.4
7 20	19 21.10	−40 58.8	1.835	2.804	7.7	19.4
7 30	19 11.42	−40 46.2	1.867	2.799	10.1	19.5
8 9	19 3.78	−40 15.3	1.921	2.793	12.8	19.7
8 19	18 58.88	−39 30.5	1.996	2.788	15.3	19.9

438822 2009 AG_{12} 7 12.7 258°.66 0°.4/12.6 18

6 10	19 53.00	−21 23.5	1.958	2.836	12.4	21.8
6 20	19 47.58	−21 48.1	1.879	2.828	9.1	21.5
6 30	19 40.11	−22 17.0	1.824	2.819	5.2	21.3
7 10	19 31.31	−22 47.2	1.795	2.810	1.2	21.0
7 20	19 22.07	−23 15.6	1.793	2.802	3.2	21.1
7 30	19 13.44	−23 39.6	1.818	2.793	7.2	21.4
8 9	19 6.37	−23 58.0	1.868	2.784	11.0	21.6
8 19	19 1.53	−24 10.4	1.940	2.775	14.2	21.8

49135 1998 SP_{28} 7 12.7 253°.63 4°.4/11.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 55.33	−31 50.5	1.910	2.790	12.6	19.1
6 20	19 49.45	−32 39.1	1.842	2.787	9.5	18.9
6 30	19 41.25	−33 24.0	1.798	2.784	6.3	18.7
7 10	19 31.56	−33 59.7	1.779	2.781	4.4	18.6
7 20	19 21.46	−34 22.1	1.787	2.778	5.8	18.6
7 30	19 12.15	−34 29.2	1.821	2.775	8.8	18.8
8 9	19 4.70	−34 22.1	1.878	2.772	12.0	19.0
8 19	18 59.80	−34 3.2	1.957	2.769	14.9	19.2

11584 Ferenczi 7 12.7 233°.12 2°.5/11.9 18

6 10	19 54.25	−29 20.4	2.342	3.216	10.8	18.7
6 20	19 48.20	−29 34.4	2.266	3.211	8.0	18.5
6 30	19 40.33	−29 45.5	2.215	3.205	4.9	18.3
7 10	19 31.35	−29 50.8	2.190	3.200	2.6	18.1
7 20	19 22.08	−29 48.0	2.194	3.194	3.9	18.2
7 30	19 13.46	−29 36.5	2.225	3.189	6.9	18.4
8 9	19 6.31	−29 17.0	2.282	3.183	9.9	18.5
8 19	19 1.20	−28 51.2	2.362	3.177	12.6	18.7

442570 2012 BG_{30} 7 12.7 204°.77 1°.1/13.3 18

6 10	19 50.13	−16 14.9	2.528	3.391	10.5	21.5
6 20	19 45.05	−16 40.4	2.450	3.389	7.7	21.3
6 30	19 38.47	−17 12.5	2.396	3.386	4.7	21.1
7 10	19 30.94	−17 49.3	2.370	3.384	1.6	20.9
7 20	19 23.13	−18 28.5	2.373	3.381	2.6	21.0
7 30	19 15.76	−19 7.7	2.403	3.378	5.7	21.2
8 9	19 9.53	−19 44.9	2.461	3.375	8.7	21.4
8 19	19 4.94	−20 18.7	2.542	3.372	11.4	21.6

398966 2013 ES_{14} 7 12.7 195°.95 1°.6/13.4 18

6 10	19 50.58	−15 50.5	2.291	3.157	11.3	21.4
6 20	19 45.47	−16 2.0	2.217	3.156	8.4	21.2
6 30	19 38.74	−16 20.4	2.166	3.156	5.1	21.0
7 10	19 31.00	−16 44.2	2.142	3.155	2.0	20.8
7 20	19 22.99	−17 11.3	2.147	3.154	2.9	20.9
7 30	19 15.50	−17 39.7	2.178	3.153	6.2	21.1
8 9	19 9.28	−18 7.5	2.236	3.153	9.4	21.3
8 19	19 4.85	−18 33.3	2.317	3.152	12.2	21.4

472019 2013 XW_{17} 7 12.7 247°.02 0°.5/12.9 17

6 10	19 53.73	−17 14.6	1.939	2.810	12.8	21.9
6 20	19 48.21	−18 4.5	1.854	2.798	9.5	21.7
6 30	19 40.56	−19 4.3	1.792	2.785	5.6	21.4
7 10	19 31.44	−20 10.3	1.756	2.771	1.4	21.1
7 20	19 21.74	−21 18.0	1.749	2.758	3.1	21.2
7 30	19 12.52	−22 22.9	1.769	2.744	7.4	21.5
8 9	19 4.81	−23 21.6	1.814	2.729	11.3	21.7
8 19	18 59.34	−24 12.3	1.882	2.714	14.6	21.9

116501 2004 BP_{22} 7 12.7 359°.26 1°.5/13.3 18

6 10	19 50.84	−15 39.6	1.213	2.109	17.1	19.1
6 20	19 46.81	−16 18.4	1.151	2.107	12.7	18.9
6 30	19 39.99	−17 12.4	1.110	2.106	7.7	18.6
7 10	19 31.33	−18 17.4	1.091	2.105	2.5	18.3
7 20	19 22.12	−19 27.2	1.095	2.105	4.1	18.4
7 30	19 13.85	−20 35.4	1.123	2.106	9.4	18.7
8 9	19 7.85	−21 36.9	1.173	2.108	14.3	19.0
8 19	19 4.94	−22 28.8	1.241	2.111	18.4	19.2

482955 2014 KB_{42} 7 12.7 348°.22 2°.6/11.2 18

6 10	19 51.58	−24 38.8	1.931	2.816	12.3	21.0
6 20	19 46.69	−26 1.2	1.861	2.813	8.9	20.8
6 30	19 39.69	−27 27.9	1.815	2.810	5.3	20.6
7 10	19 31.27	−28 53.0	1.796	2.807	2.6	20.4
7 20	19 22.34	−30 10.6	1.804	2.805	4.5	20.5
7 30	19 13.98	−31 16.2	1.840	2.803	8.1	20.7
8 9	19 7.21	−32 7.5	1.900	2.802	11.5	20.9
8 19	19 2.74	−32 44.7	1.981	2.801	14.5	21.1

481117 2005 TM_{140} 7 12.7 293°.00 2°.4/13.7 16

6 10	19 50.35	−14 14.8	2.097	2.963	12.2	21.6
6 20	19 45.55	−14 19.1	2.008	2.946	9.2	21.4
6 30	19 38.93	−14 32.2	1.942	2.929	5.9	21.1
7 10	19 31.09	−14 53.0	1.901	2.912	2.8	20.9
7 20	19 22.80	−15 19.7	1.888	2.895	3.5	20.9
7 30	19 14.98	−15 50.1	1.902	2.878	6.9	21.1
8 9	19 8.46	−16 21.8	1.941	2.861	10.4	21.3
8 19	19 3.90	−16 52.9	2.003	2.844	13.6	21.5

10995 1978 NS 7 12.7 322°.29 0°.2/12.7 18

6 10	19 50.54	−21 21.8	1.750	2.638	13.2	18.5
6 20	19 46.07	−21 35.7	1.666	2.619	9.7	18.2
6 30	19 39.39	−21 54.3	1.604	2.600	5.6	18.0
7 10	19 31.21	−22 14.7	1.567	2.582	1.2	17.6
7 20	19 22.49	−22 34.2	1.555	2.565	3.4	17.7
7 30	19 14.37	−22 50.4	1.570	2.548	7.8	18.0
8 9	19 7.90	−23 1.8	1.608	2.532	11.9	18.2
8 19	19 3.83	−23 8.1	1.667	2.516	15.5	18.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
388665 2007 TF_{354}			7 12.7 327.°15		6.°3/ 9.6 18	
	h m	° ′			°	m
6 10	19 51.78	−31 6.4	1.433	2.332	14.8	19.3
6 20	19 47.78	−32 46.8	1.357	2.312	11.3	19.1
6 30	19 40.79	−34 29.0	1.304	2.293	7.9	18.8
7 10	19 31.59	−36 3.4	1.275	2.274	6.3	18.7
7 20	19 21.43	−37 20.6	1.269	2.256	8.2	18.8
7 30	19 11.97	−38 14.6	1.287	2.239	11.9	18.9
8 9	19 4.75	−38 44.1	1.327	2.223	15.8	19.1
8 19	19 0.84	−38 51.6	1.384	2.208	19.3	19.3
431180 2006 SG_{41}			7 12.7 272.°53		0.°6/12.9 18	
6 10	19 55.11	−19 8.7	1.594	2.476	14.6	21.8
6 20	19 49.65	−19 24.8	1.507	2.456	10.8	21.5
6 30	19 41.60	−19 48.5	1.442	2.437	6.4	21.2
7 10	19 31.73	−20 16.9	1.401	2.417	1.6	20.9
7 20	19 21.12	−20 46.3	1.387	2.396	3.7	21.0
7 30	19 11.13	−21 13.7	1.398	2.376	8.6	21.2
8 9	19 3.00	−21 36.9	1.433	2.355	13.2	21.4
8 19	18 57.63	−21 55.1	1.488	2.334	17.2	21.6
167297 2003 UD_{211}			7 12.7 343.°70		8.°6/ 9.1 17	
6 10	19 55.75	−39 8.6	1.551	2.433	14.9	19.5
6 20	19 50.53	−40 35.0	1.492	2.427	12.0	19.3
6 30	19 42.23	−41 51.8	1.454	2.422	9.5	19.2
7 10	19 31.86	−42 49.7	1.440	2.417	8.6	19.1
7 20	19 20.85	−43 22.1	1.449	2.413	9.9	19.2
7 30	19 10.90	−43 26.8	1.482	2.410	12.5	19.3
8 9	19 3.46	−43 6.6	1.535	2.407	15.5	19.5
8 19	18 59.40	−42 26.9	1.606	2.404	18.2	19.7
385557 2004 TF_{74}			7 12.7 299.°17		1.°7/13.3 16	
6 10	19 52.70	−17 14.2	1.637	2.518	14.3	21.4
6 20	19 47.66	−17 16.0	1.559	2.507	10.6	21.1
6 30	19 40.31	−17 25.9	1.503	2.496	6.4	20.9
7 10	19 31.42	−17 41.9	1.471	2.485	2.3	20.6
7 20	19 22.02	−18 1.7	1.465	2.474	3.6	20.6
7 30	19 13.30	−18 22.8	1.485	2.464	8.1	20.9
8 9	19 6.36	−18 43.2	1.529	2.453	12.3	21.1
8 19	19 1.95	−19 1.5	1.593	2.443	16.0	21.3
235860 2005 AD_{42}			7 12.7 294.°06		6.°3/ 9.6 18	
6 10	19 55.74	−33 49.5	1.707	2.591	13.6	19.7
6 20	19 50.40	−35 14.7	1.625	2.568	10.6	19.5
6 30	19 42.20	−36 37.8	1.565	2.546	7.7	19.3
7 10	19 31.89	−37 50.7	1.530	2.523	6.3	19.1
7 20	19 20.67	−38 45.7	1.521	2.501	7.9	19.2
7 30	19 10.04	−39 18.7	1.536	2.478	11.1	19.3
8 9	19 1.45	−39 29.4	1.574	2.455	14.6	19.5
8 19	18 55.94	−39 21.1	1.630	2.433	17.8	19.6
166524 2002 QL_{101}			7 12.7 324.°45		0.°6/13.0 18	
6 10	19 51.20	−17 39.8	1.692	2.575	13.8	19.6
6 20	19 46.53	−18 17.6	1.617	2.567	10.2	19.3
6 30	19 39.64	−19 5.0	1.565	2.560	6.0	19.1
7 10	19 31.28	−19 58.6	1.538	2.553	1.5	18.8
7 20	19 22.42	−20 53.9	1.537	2.547	3.3	18.9
7 30	19 14.21	−21 46.8	1.563	2.541	7.8	19.1
8 9	19 7.70	−22 34.2	1.612	2.535	11.9	19.4
8 19	19 3.60	−23 14.2	1.682	2.530	15.4	19.6
10447 Bloembergen			7 12.7 253.°52		1.°1/12.3 18	
6 10	19 53.09	−23 57.4	2.060	2.939	11.9	18.2
6 20	19 47.55	−24 18.1	1.986	2.935	8.6	18.0
6 30	19 40.07	−24 40.6	1.935	2.930	5.0	17.8
7 10	19 31.36	−25 1.7	1.911	2.926	1.5	17.5
7 20	19 22.29	−25 18.7	1.914	2.921	3.3	17.7
7 30	19 13.87	−25 29.7	1.944	2.917	7.0	17.9
8 9	19 6.98	−25 34.4	2.000	2.912	10.5	18.1
8 19	19 2.25	−25 33.2	2.077	2.907	13.5	18.3
445258 2009 RD_{29}			7 12.7 173.°17		1.°6/12.1 18	
6 10	19 51.71	−26 47.4	2.716	3.588	9.6	21.4
6 20	19 46.12	−27 1.4	2.644	3.589	7.0	21.2
6 30	19 39.06	−27 14.4	2.597	3.590	4.1	21.0
7 10	19 31.12	−27 24.2	2.578	3.590	1.7	20.8
7 20	19 22.96	−27 29.0	2.587	3.591	3.0	20.9
7 30	19 15.34	−27 27.9	2.625	3.591	5.8	21.1
8 9	19 8.93	−27 20.9	2.689	3.592	8.5	21.3
8 19	19 4.19	−27 8.9	2.776	3.592	10.9	21.5
488373 2016 WK_{36}			7 12.7 302.°64		5.°2/10.3 18	
6 10	19 53.81	−33 53.2	2.013	2.892	12.1	20.1
6 20	19 48.43	−34 53.5	1.938	2.880	9.3	19.9
6 30	19 40.76	−35 49.7	1.887	2.869	6.6	19.7
7 10	19 31.55	−36 36.0	1.862	2.857	5.2	19.6
7 20	19 21.81	−37 7.6	1.863	2.846	6.4	19.6
7 30	19 12.73	−37 22.2	1.889	2.834	9.2	19.8
8 9	19 5.40	−37 20.4	1.939	2.823	12.2	19.9
8 19	19 0.55	−37 4.8	2.010	2.812	14.9	20.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
9859 Van Lierde			7 12.7 130.°62		0.°5/12.9 18	
	h m	° ′			°	m
6 10	19 52.53	−19 47.5	2.014	2.890	12.2	17.3
6 20	19 47.10	−19 56.4	1.944	2.890	8.9	17.1
6 30	19 39.79	−20 9.7	1.897	2.891	5.2	16.8
7 10	19 31.31	−20 25.5	1.876	2.891	1.3	16.6
7 20	19 22.53	−20 41.4	1.882	2.892	2.9	16.7
7 30	19 14.42	−20 55.5	1.916	2.892	6.8	16.9
8 9	19 7.82	−21 6.9	1.975	2.893	10.3	17.1
8 19	19 3.33	−21 15.1	2.056	2.893	13.4	17.3
24491 2000 YT_{123}			7 12.7 55.°98		0.°1/12.7 18	
6 10	19 51.00	−21 2.0	2.181	3.057	11.4	18.6
6 20	19 45.82	−21 21.7	2.120	3.068	8.2	18.4
6 30	19 38.96	−21 45.0	2.083	3.078	4.7	18.2
7 10	19 31.12	−22 9.2	2.073	3.089	1.0	18.0
7 20	19 23.07	−22 32.0	2.091	3.100	2.7	18.1
7 30	19 15.68	−22 51.5	2.136	3.111	6.3	18.4
8 9	19 9.69	−23 6.7	2.206	3.122	9.5	18.6
8 19	19 5.61	−23 17.3	2.299	3.133	12.3	18.8
318089 2004 GX_{66}			7 12.7 129.°93		0.°9/12.5 17	
6 10	19 56.94	−22 58.6	1.752	2.631	13.6	21.1
6 20	19 50.49	−23 20.7	1.692	2.641	9.9	20.9
6 30	19 41.80	−23 45.3	1.655	2.650	5.7	20.7
7 10	19 31.76	−24 8.8	1.644	2.659	1.4	20.4
7 20	19 21.44	−24 27.8	1.659	2.667	3.5	20.6
7 30	19 12.04	−24 40.5	1.702	2.676	7.7	20.8
8 9	19 4.55	−24 46.5	1.769	2.683	11.6	21.1
8 19	18 59.60	−24 46.5	1.858	2.691	14.8	21.3
37541 1981 EW_{7}			7 12.7 46.°03		8.°1/15.9 18	
6 10	19 51.38	− 2 30.1	1.537	2.379	17.0	18.8
6 20	19 46.50	− 1 57.9	1.482	2.390	13.9	18.6
6 30	19 39.51	− 1 46.8	1.447	2.402	10.8	18.5
7 10	19 31.26	− 1 58.4	1.435	2.413	8.5	18.4
7 20	19 22.75	− 2 31.5	1.446	2.425	8.3	18.4
7 30	19 15.09	− 3 22.7	1.481	2.438	10.2	18.5
8 9	19 9.21	− 4 26.3	1.538	2.450	13.1	18.7
8 19	19 5.72	− 5 36.3	1.617	2.463	16.0	19.0
342612 2008 UN_{327}			7 12.8 163.°91		11.°7/16.9 18	
6 10	19 51.85	+ 8 34.9	1.950	2.717	16.6	20.1
6 20	19 46.60	+ 9 49.7	1.885	2.717	14.8	20.0
6 30	19 39.52	+10 41.7	1.838	2.718	13.1	19.9
7 10	19 31.27	+11 6.7	1.813	2.719	11.9	19.8
7 20	19 22.68	+11 3.1	1.810	2.720	11.7	19.8
7 30	19 14.68	+10 31.8	1.829	2.720	12.5	19.8
8 9	19 8.12	+ 9 37.4	1.870	2.721	14.1	19.9
8 19	19 3.60	+ 8 25.8	1.931	2.721	15.9	20.1
207454 2006 FU_{40}			7 12.8 83.°78		2.°2/13.4 17	
6 10	19 56.25	−15 41.4	1.331	2.215	16.8	20.9
6 20	19 50.37	−15 51.8	1.279	2.227	12.4	20.7
6 30	19 41.87	−16 13.6	1.248	2.240	7.6	20.5
7 10	19 31.79	−16 44.0	1.240	2.253	2.9	20.2
7 20	19 21.42	−17 19.1	1.257	2.266	4.2	20.3
7 30	19 12.19	−17 55.1	1.299	2.278	8.9	20.7
8 9	19 5.23	−18 29.1	1.363	2.291	13.3	20.9
8 19	19 1.22	−18 59.2	1.448	2.303	17.0	21.2
87907 2000 SQ_{310}			7 12.8 261.°76		9.°6/11.0 18	
6 10	20 7.97	−47 13.4	1.811	2.651	14.9	18.8
6 20	19 59.14	−47 43.5	1.744	2.644	12.6	18.7
6 30	19 47.02	−47 54.6	1.698	2.637	10.6	18.5
7 10	19 32.91	−47 39.1	1.675	2.629	9.6	18.5
7 20	19 18.56	−46 53.1	1.678	2.622	10.3	18.5
7 30	19 5.81	−45 38.5	1.704	2.614	12.3	18.6
8 9	18 56.04	−44 1.8	1.754	2.606	14.7	18.7
8 19	18 49.94	−42 11.4	1.823	2.598	17.2	18.9
429205 2009 WG_{186}			7 12.8 165.°72		0.°3/12.7 17	
6 10	19 55.54	−22 8.6	1.732	2.613	13.6	21.3
6 20	19 49.55	−22 17.3	1.664	2.614	9.9	21.0
6 30	19 41.32	−22 28.9	1.620	2.615	5.7	20.8
7 10	19 31.68	−22 40.7	1.600	2.616	1.3	20.5
7 20	19 21.69	−22 49.8	1.608	2.617	3.4	20.6
7 30	19 12.55	−22 54.8	1.642	2.618	7.8	20.9
8 9	19 5.26	−22 55.1	1.700	2.618	11.7	21.2
8 19	19 0.50	−22 51.2	1.780	2.618	15.1	21.4
53572 2000 CM_{38}			7 12.8 161.°77		2.°4/12.2 18	
6 10	19 59.51	−26 28.4	1.315	2.208	16.3	19.2
6 20	19 53.09	−26 43.4	1.254	2.209	12.0	18.9
6 30	19 43.62	−26 57.7	1.214	2.210	7.1	18.7
7 10	19 32.20	−27 6.1	1.197	2.211	2.7	18.4
7 20	19 20.36	−27 4.8	1.205	2.211	4.9	18.5
7 30	19 9.75	−26 52.7	1.237	2.212	9.9	18.8
8 9	19 1.74	−26 31.2	1.292	2.212	14.4	19.1
8 19	18 57.10	−26 3.4	1.366	2.213	18.3	19.3

91934 1999 VM_{54} 7 12.8 265°.20 0°.3/12.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 51.53	−21 49.1	2.448	3.320	10.5	20.2
6 20	19 46.24	−22 5.0	2.359	3.305	7.6	20.0
6 30	19 39.29	−22 23.8	2.295	3.290	4.4	19.8
7 10	19 31.24	−22 43.1	2.258	3.274	1.0	19.5
7 20	19 22.81	−23 0.9	2.250	3.258	2.7	19.6
7 30	19 14.83	−23 15.6	2.269	3.242	6.1	19.8
8 9	19 8.07	−23 26.1	2.314	3.226	9.3	20.0
8 19	19 3.09	−23 32.3	2.383	3.209	12.1	20.1

89775 2002 AJ_{90} 7 12.8 229°.94 2°.6/13.6 18

6 10	19 54.18	−14 10.6	2.106	2.965	12.4	20.2
6 20	19 48.31	−14 4.9	2.020	2.954	9.4	20.0
6 30	19 40.54	−14 7.2	1.958	2.943	6.0	19.8
7 10	19 31.52	−14 16.6	1.921	2.930	3.0	19.6
7 20	19 22.08	−14 31.8	1.913	2.918	3.7	19.6
7 30	19 13.15	−14 50.8	1.932	2.904	7.0	19.8
8 9	19 5.63	−15 12.0	1.977	2.891	10.5	20.0
8 19	19 0.14	−15 33.7	2.044	2.876	13.6	20.1

387030 2012 SS_{15} 7 12.8 246°.66 2°.4/12.0 16

6 10	19 55.65	−27 42.4	1.879	2.760	12.7	20.9
6 20	19 49.61	−27 59.1	1.808	2.757	9.3	20.7
6 30	19 41.35	−28 13.9	1.760	2.754	5.6	20.5
7 10	19 31.69	−28 23.3	1.738	2.750	2.6	20.3
7 20	19 21.69	−28 24.5	1.743	2.747	4.2	20.4
7 30	19 12.49	−28 16.4	1.775	2.743	7.9	20.6
8 9	19 5.10	−27 59.7	1.831	2.740	11.5	20.8
8 19	19 0.19	−27 36.3	1.908	2.736	14.6	21.0

154319 2002 VM_{27} 7 12.8 17°.70 1°.8/12.3 18

6 10	19 57.48	−24 9.7	1.203	2.102	17.1	19.5
6 20	19 51.81	−24 34.9	1.144	2.102	12.5	19.2
6 30	19 42.98	−25 3.2	1.105	2.103	7.3	19.0
7 10	19 32.09	−25 29.1	1.088	2.103	2.2	18.7
7 20	19 20.69	−25 47.7	1.096	2.104	4.8	18.8
7 30	19 10.51	−25 56.1	1.127	2.105	10.2	19.1
8 9	19 2.99	−25 54.6	1.179	2.105	15.0	19.4
8 19	18 58.95	−25 45.0	1.250	2.106	19.1	19.7

294558 2007 YH_{32} 7 12.8 192°.31 1°.3/12.3 17

6 10	19 57.76	−23 39.0	1.794	2.671	13.4	22.0
6 20	19 51.23	−24 10.4	1.722	2.670	9.8	21.8
6 30	19 42.35	−24 44.5	1.674	2.668	5.7	21.5
7 10	19 31.94	−25 17.0	1.651	2.666	1.7	21.2
7 20	19 21.07	−25 44.1	1.656	2.663	3.8	21.4
7 30	19 10.99	−26 3.2	1.688	2.659	8.0	21.6
8 9	19 2.78	−26 13.9	1.744	2.655	11.9	21.8
8 19	18 57.16	−26 16.8	1.822	2.650	15.2	22.1

127218 2002 JE 7 12.8 93°.50 2°.9/11.6 18

6 10	19 56.98	−27 22.7	1.861	2.740	12.9	20.1
6 20	19 50.43	−28 16.1	1.813	2.761	9.4	19.9
6 30	19 41.73	−29 8.3	1.790	2.782	5.7	19.7
7 10	19 31.77	−29 54.2	1.792	2.802	3.0	19.6
7 20	19 21.61	−30 29.7	1.822	2.822	4.6	19.8
7 30	19 12.40	−30 52.7	1.879	2.841	8.0	20.0
8 9	19 5.09	−31 3.5	1.960	2.861	11.3	20.2
8 19	19 0.26	−31 3.9	2.063	2.879	14.1	20.5

133398 2003 SV_{164} 7 12.8 306°.31 3°.0/13.9 18

6 10	19 51.42	−12 55.9	1.750	2.620	14.0	19.7
6 20	19 46.58	−13 2.4	1.674	2.613	10.7	19.5
6 30	19 39.65	−13 20.7	1.620	2.606	6.9	19.2
7 10	19 31.35	−13 49.3	1.591	2.600	3.5	19.0
7 20	19 22.61	−14 26.0	1.588	2.593	4.1	19.0
7 30	19 14.50	−15 7.6	1.610	2.587	7.8	19.3
8 9	19 7.99	−15 50.7	1.657	2.581	11.6	19.5
8 19	19 3.76	−16 32.6	1.726	2.575	15.0	19.7

55999 1998 SK_{144} 7 12.8 212°.07 4°.4/11.4 18

6 10	19 59.83	−29 52.2	1.473	2.360	15.2	18.9
6 20	19 53.33	−30 42.3	1.407	2.356	11.4	18.7
6 30	19 43.82	−31 30.2	1.362	2.353	7.3	18.5
7 10	19 32.30	−32 8.8	1.341	2.348	4.5	18.3
7 20	19 20.18	−32 32.2	1.346	2.343	6.3	18.4
7 30	19 9.11	−32 38.0	1.376	2.338	10.3	18.6
8 9	19 0.48	−32 27.6	1.428	2.333	14.4	18.8
8 19	18 55.15	−32 4.7	1.500	2.327	18.0	19.0

293371 2007 ED_{18} 7 12.8 264°.65 3°.7/14.5 18

6 10	19 49.46	− 9 24.6	2.391	3.237	11.6	21.2
6 20	19 44.66	− 9 23.2	2.308	3.230	9.0	21.0
6 30	19 38.34	− 9 32.5	2.249	3.223	6.2	20.8
7 10	19 31.06	− 9 52.0	2.217	3.216	4.0	20.6
7 20	19 23.46	−10 20.4	2.211	3.209	4.2	20.6
7 30	19 16.30	−10 55.7	2.233	3.201	6.5	20.8
8 9	19 10.28	−11 35.4	2.281	3.194	9.4	20.9
8 19	19 5.91	−12 16.9	2.352	3.187	12.0	21.1

251431 2008 BY_{32} 7 12.8 149°.25 2°.9/14.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 50.61	−11 19.6	2.334	3.186	11.6	21.4
6 20	19 45.47	−11 30.3	2.262	3.190	8.8	21.2
6 30	19 38.79	−11 50.9	2.213	3.193	5.8	21.0
7 10	19 31.15	−12 20.3	2.191	3.196	3.3	20.9
7 20	19 23.26	−12 56.6	2.196	3.199	3.6	20.9
7 30	19 15.88	−13 37.2	2.230	3.202	6.3	21.1
8 9	19 9.71	−14 19.7	2.290	3.204	9.3	21.2
8 19	19 5.27	−15 1.6	2.373	3.207	11.9	21.4

69889 1998 SU_{110} 7 12.8 225°.61 1°.1/13.1 18

6 10	19 55.39	−18 20.2	1.766	2.641	13.7	20.3
6 20	19 49.50	−18 26.2	1.689	2.635	10.1	20.1
6 30	19 41.36	−18 38.6	1.635	2.628	6.0	19.8
7 10	19 31.75	−18 55.3	1.607	2.621	1.8	19.5
7 20	19 21.68	−19 13.7	1.605	2.614	3.4	19.6
7 30	19 12.31	−19 31.5	1.630	2.606	7.7	19.9
8 9	19 4.69	−19 47.3	1.679	2.598	11.8	20.1
8 19	18 59.52	−20 0.4	1.750	2.590	15.2	20.3

256673 2007 YG_{15} 7 12.8 61°.40 0°.7/12.6 17

6 10	19 56.89	−22 40.5	1.304	2.198	16.3	20.6
6 20	19 50.95	−22 53.8	1.254	2.210	11.9	20.3
6 30	19 42.26	−23 10.5	1.225	2.222	6.8	20.1
7 10	19 31.93	−23 26.5	1.219	2.235	1.6	19.8
7 20	19 21.36	−23 38.4	1.238	2.248	4.1	20.0
7 30	19 12.05	−23 44.1	1.282	2.261	9.1	20.3
8 9	19 5.18	−23 43.4	1.348	2.274	13.6	20.6
8 19	19 1.40	−23 37.5	1.433	2.287	17.3	20.9

472144 2014 CH_{3} 7 12.8 243°.55 3°.7/14.6 17

6 10	19 52.47	− 9 13.5	2.037	2.886	13.2	21.6
6 20	19 47.17	− 9 35.1	1.950	2.874	10.2	21.4
6 30	19 39.96	−10 10.9	1.885	2.862	7.0	21.2
7 10	19 31.46	−10 59.7	1.846	2.849	4.2	21.0
7 20	19 22.47	−11 58.8	1.835	2.836	4.3	21.0
7 30	19 13.94	−13 4.6	1.851	2.823	7.4	21.1
8 9	19 6.75	−14 12.8	1.893	2.809	10.8	21.3
8 19	19 1.60	−15 19.9	1.958	2.795	14.0	21.5

246088 2007 AW_{8} 7 12.8 225°.90 1°.1/12.2 18

6 10	19 51.56	−22 35.3	2.268	3.144	11.0	20.7
6 20	19 46.36	−23 22.4	2.195	3.143	8.0	20.5
6 30	19 39.41	−24 13.1	2.146	3.141	4.6	20.2
7 10	19 31.32	−25 3.9	2.125	3.140	1.4	20.0
7 20	19 22.88	−25 51.2	2.132	3.138	3.1	20.1
7 30	19 14.97	−26 32.1	2.167	3.137	6.6	20.4
8 9	19 8.39	−27 5.1	2.227	3.135	9.8	20.6
8 19	19 3.74	−27 29.9	2.310	3.134	12.5	20.7

329828 2004 RV_{261} 7 12.8 210°.01 4°.8/10.6 18

6 10	19 55.94	−38 25.5	2.803	3.659	9.8	22.0
6 20	19 49.39	−38 57.9	2.730	3.654	7.7	21.8
6 30	19 41.07	−39 22.8	2.682	3.648	5.8	21.7
7 10	19 31.67	−39 36.6	2.661	3.643	4.8	21.6
7 20	19 22.01	−39 36.8	2.667	3.637	5.6	21.7
7 30	19 12.97	−39 22.8	2.701	3.631	7.5	21.8
8 9	19 5.36	−38 56.2	2.760	3.624	9.6	21.9
8 19	18 59.72	−38 19.4	2.842	3.617	11.7	22.1

444064 2004 RN_{182} 7 12.8 329°.61 8°.6/10.4 18

6 10	19 59.03	−44 23.3	1.880	2.737	13.8	20.3
6 20	19 52.56	−44 59.9	1.810	2.725	11.5	20.2
6 30	19 43.26	−45 21.7	1.762	2.712	9.5	20.0
7 10	19 32.19	−45 22.2	1.737	2.701	8.6	19.9
7 20	19 20.72	−44 57.6	1.737	2.690	9.4	20.0
7 30	19 10.39	−44 8.1	1.760	2.679	11.4	20.1
8 9	19 2.45	−42 58.0	1.806	2.669	13.9	20.2
8 19	18 57.64	−41 33.5	1.872	2.660	16.4	20.4

379215 2009 SC_{141} 7 12.8 288°.38 1°.0/13.1 15

6 10	19 54.43	−19 1.3	1.564	2.447	14.7	21.6
6 20	19 49.22	−19 2.8	1.477	2.427	10.9	21.4
6 30	19 41.43	−19 10.8	1.411	2.406	6.5	21.1
7 10	19 31.83	−19 23.2	1.370	2.385	1.9	20.7
7 20	19 21.52	−19 37.4	1.355	2.364	3.7	20.8
7 30	19 11.83	−19 51.0	1.365	2.343	8.6	21.0
8 9	19 4.03	−20 2.6	1.398	2.322	13.2	21.2
8 19	18 58.98	−20 11.4	1.451	2.302	17.3	21.4

288404 2004 DO_{16} 7 12.8 109°.70 3°.8/13.9 17

6 10	19 55.23	−12 33.9	1.609	2.476	15.2	21.0
6 20	19 49.31	−12 18.0	1.548	2.485	11.5	20.8
6 30	19 41.18	−12 13.5	1.510	2.494	7.6	20.6
7 10	19 31.72	−12 19.8	1.495	2.502	4.2	20.4
7 20	19 21.97	−12 35.3	1.507	2.510	4.8	20.5
7 30	19 13.11	−12 57.7	1.544	2.518	8.3	20.7
8 9	19 6.12	−13 24.2	1.605	2.526	12.1	21.0
8 19	19 1.63	−13 52.3	1.688	2.533	15.5	21.2

6258 Rodin 7 12.8 146°.93 1°.1/13.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 56.55	−17 25.9	1.526	2.405	15.2	17.3
6 20	19 50.52	−17 49.3	1.463	2.410	11.2	17.0
6 30	19 42.02	−18 21.9	1.422	2.415	6.7	16.8
7 10	19 31.93	−19 0.3	1.405	2.420	1.9	16.5
7 20	19 21.45	−19 40.4	1.415	2.424	3.6	16.6
7 30	19 11.87	−20 18.5	1.450	2.428	8.3	16.9
8 9	19 4.33	−20 52.2	1.510	2.432	12.6	17.2
8 19	18 59.56	−21 20.3	1.590	2.435	16.3	17.4

209988 2006 HL_{86} 7 12.8 91°.91 4°.3/14.2 17

6 10	19 55.58	−11 29.3	1.378	2.251	16.9	20.4
6 20	19 49.84	−11 21.5	1.322	2.260	12.9	20.1
6 30	19 41.61	−11 28.7	1.286	2.270	8.6	19.9
7 10	19 31.84	−11 49.9	1.274	2.280	4.9	19.7
7 20	19 21.75	−12 22.3	1.286	2.290	5.3	19.8
7 30	19 12.68	−13 2.2	1.323	2.299	9.2	20.0
8 9	19 5.74	−13 45.6	1.383	2.309	13.3	20.3
8 19	19 1.63	−14 28.8	1.463	2.318	16.9	20.6

392740 2012 SS_{27} 7 12.8 284°.86 7°.9/10.0 18

6 10	19 59.66	−40 24.2	1.774	2.642	14.0	20.9
6 20	19 53.22	−41 19.9	1.699	2.626	11.3	20.6
6 30	19 43.81	−42 4.9	1.646	2.610	8.9	20.5
7 10	19 32.37	−42 31.5	1.617	2.593	7.9	20.4
7 20	19 20.28	−42 34.4	1.612	2.577	9.0	20.4
7 30	19 9.15	−42 12.2	1.632	2.561	11.5	20.5
8 9	19 0.39	−41 28.1	1.674	2.544	14.5	20.7
8 19	18 54.85	−40 27.7	1.735	2.528	17.3	20.8

116678 2004 CX_{67} 7 12.8 46°.90 1°.5/12.4 17

6 10	19 55.58	−23 41.1	1.284	2.182	16.3	19.7
6 20	19 50.07	−24 8.3	1.237	2.195	11.8	19.5
6 30	19 41.79	−24 38.4	1.211	2.209	6.8	19.2
7 10	19 31.88	−25 6.3	1.208	2.223	2.0	19.0
7 20	19 21.73	−25 27.9	1.229	2.237	4.4	19.2
7 30	19 12.83	−25 40.5	1.275	2.252	9.2	19.5
8 9	19 6.37	−25 44.1	1.342	2.268	13.6	19.8
8 19	19 2.99	−25 40.1	1.429	2.283	17.3	20.1

510905 2013 CH_{224} 7 12.8 102°.22 4°.1/14.6 18

6 10	19 50.28	− 9 2.5	2.208	3.056	12.3	21.9
6 20	19 45.32	− 8 55.4	2.136	3.058	9.6	21.7
6 30	19 38.76	− 8 59.8	2.086	3.059	6.7	21.5
7 10	19 31.21	− 9 15.3	2.062	3.061	4.4	21.4
7 20	19 23.39	− 9 40.6	2.065	3.062	4.5	21.4
7 30	19 16.10	−10 13.7	2.096	3.063	6.9	21.6
8 9	19 10.08	−10 51.7	2.151	3.065	9.8	21.7
8 19	19 5.84	−11 32.0	2.229	3.066	12.5	21.9

509295 2006 VL_{98} 7 12.8 310°.28 1°.7/12.3 17

6 10	19 53.56	−23 43.7	1.306	2.206	15.9	21.6
6 20	19 49.09	−24 11.3	1.226	2.185	11.8	21.3
6 30	19 41.60	−24 43.8	1.166	2.165	7.0	20.9
7 10	19 31.93	−25 16.1	1.129	2.144	2.1	20.6
7 20	19 21.40	−25 43.2	1.116	2.125	4.7	20.7
7 30	19 11.64	−26 1.2	1.127	2.106	10.1	20.9
8 9	19 4.17	−26 9.1	1.159	2.087	15.1	21.2
8 19	19 0.00	−26 7.5	1.209	2.069	19.4	21.4

183205 2002 TX_{19} 7 12.8 299°.20 2°.0/12.1 18

6 10	19 54.62	−24 21.0	1.409	2.303	15.3	20.4
6 20	19 49.78	−24 55.6	1.323	2.279	11.3	20.1
6 30	19 41.98	−25 34.8	1.258	2.255	6.7	19.8
7 10	19 32.02	−26 13.4	1.217	2.231	2.3	19.4
7 20	19 21.14	−26 45.8	1.201	2.208	4.8	19.5
7 30	19 10.93	−27 8.2	1.208	2.184	9.9	19.8
8 9	19 2.87	−27 19.1	1.238	2.161	14.8	20.0
8 19	18 57.99	−27 19.5	1.287	2.138	19.0	20.2

512170 2015 RF_{95} 7 12.8 11°.10 3°.1/12.1 18

6 10	19 55.12	−30 48.6	1.843	2.726	12.9	20.4
6 20	19 49.19	−30 46.4	1.780	2.728	9.5	20.2
6 30	19 41.10	−30 38.8	1.740	2.731	6.0	20.0
7 10	19 31.73	−30 22.6	1.725	2.734	3.2	19.8
7 20	19 22.16	−29 56.4	1.736	2.738	4.5	19.9
7 30	19 13.54	−29 20.4	1.774	2.742	8.0	20.1
8 9	19 6.83	−28 36.7	1.836	2.747	11.4	20.3
8 19	19 2.59	−27 48.3	1.920	2.752	14.4	20.5

468650 2008 UH_{73} 7 12.8 196°.32 9°.1/14.9 18

6 10	19 53.91	+ 1 3.3	2.011	2.814	15.0	21.2
6 20	19 48.07	+ 2 23.5	1.940	2.813	12.8	21.0
6 30	19 40.41	+ 3 27.3	1.890	2.812	10.7	20.9
7 10	19 31.59	+ 4 11.0	1.865	2.811	9.3	20.8
7 20	19 22.44	+ 4 32.6	1.864	2.809	9.4	20.8
7 30	19 13.87	+ 4 32.4	1.888	2.808	10.7	20.9
8 9	19 6.73	+ 4 13.2	1.935	2.806	12.8	21.0
8 19	19 1.62	+ 3 39.3	2.003	2.804	15.0	21.2

387362 2012 XZ_{62} 7 12.8 321°.58 3°.2/14.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 51.14	−12 10.8	1.802	2.669	13.8	20.7
6 20	19 46.33	−12 17.0	1.728	2.664	10.5	20.5
6 30	19 39.52	−12 35.3	1.676	2.660	6.9	20.3
7 10	19 31.42	−13 4.4	1.648	2.656	3.7	20.1
7 20	19 22.91	−13 41.9	1.647	2.652	4.2	20.1
7 30	19 15.02	−14 24.9	1.672	2.648	7.6	20.3
8 9	19 8.68	−15 9.8	1.722	2.645	11.3	20.5
8 19	19 4.55	−15 53.9	1.793	2.641	14.6	20.7

301440 2009 DY_{79} 7 12.8 189°.86 0°.5/12.9 18

6 10	19 52.36	−19 8.5	2.043	2.918	12.1	20.8
6 20	19 47.03	−19 27.2	1.971	2.917	8.9	20.6
6 30	19 39.84	−19 51.4	1.923	2.917	5.2	20.4
7 10	19 31.47	−20 18.6	1.902	2.917	1.3	20.1
7 20	19 22.79	−20 46.2	1.907	2.917	2.9	20.2
7 30	19 14.72	−21 11.8	1.940	2.916	6.7	20.5
8 9	19 8.12	−21 33.9	1.998	2.916	10.3	20.7
8 19	19 3.59	−21 51.8	2.079	2.915	13.3	20.9

376335 2011 GG_{79} 7 12.8 17°.40 0°.2/12.9 18

6 10	19 48.36	−20 18.0	2.460	3.336	10.3	20.8
6 20	19 43.83	−20 30.7	2.394	3.341	7.5	20.7
6 30	19 37.86	−20 46.8	2.352	3.346	4.3	20.5
7 10	19 31.02	−21 4.6	2.336	3.352	1.0	20.2
7 20	19 23.98	−21 22.3	2.349	3.358	2.4	20.4
7 30	19 17.47	−21 38.1	2.389	3.365	5.7	20.6
8 9	19 12.14	−21 51.3	2.455	3.372	8.6	20.8
8 19	19 8.45	−22 1.1	2.544	3.379	11.2	21.0

414408 2009 BJ_{107} 7 12.8 252°.21 0°.3/12.9 17 R

6 10	19 56.77	−20 25.5	1.410	2.298	15.7	21.5
6 20	19 51.04	−20 35.8	1.338	2.291	11.6	21.2
6 30	19 42.51	−20 52.1	1.287	2.283	6.8	21.0
7 10	19 32.11	−21 11.2	1.260	2.276	1.6	20.6
7 20	19 21.12	−21 29.5	1.258	2.268	3.9	20.7
7 30	19 11.03	−21 44.4	1.282	2.260	9.1	21.0
8 9	19 3.14	−21 54.6	1.327	2.252	13.8	21.3
8 19	18 58.30	−22 0.0	1.393	2.244	17.8	21.5

349341 2007 VE_{82} 7 12.8 312°.88 3°.1/13.8 16

6 10	19 51.93	−13 31.7	1.857	2.724	13.5	21.1
6 20	19 46.84	−13 19.0	1.782	2.720	10.2	20.9
6 30	19 39.78	−13 15.6	1.731	2.716	6.6	20.7
7 10	19 31.48	−13 21.0	1.704	2.712	3.5	20.5
7 20	19 22.81	−13 33.9	1.703	2.708	4.1	20.5
7 30	19 14.78	−13 52.3	1.729	2.704	7.5	20.7
8 9	19 8.29	−14 14.2	1.779	2.700	11.1	20.9
8 19	19 3.97	−14 37.5	1.851	2.696	14.3	21.1

462105 2007 QS_{5} 7 12.8 335°.38 6°.7/14.8 17

6 10	19 47.25	− 8 53.9	0.987	1.885	20.0	20.2
6 20	19 44.76	− 8 38.6	0.918	1.868	15.9	19.9
6 30	19 39.20	− 8 46.9	0.866	1.852	11.2	19.6
7 10	19 31.43	− 9 20.5	0.833	1.837	7.3	19.4
7 20	19 22.80	−10 17.4	0.820	1.824	7.4	19.3
7 30	19 15.02	−11 31.8	0.828	1.812	11.6	19.5
8 9	19 9.67	−12 55.4	0.854	1.802	16.7	19.7
8 19	19 7.80	−14 19.7	0.898	1.793	21.4	20.0

154387 2003 AQ_{11} 7 12.8 243°.82 3°.0/13.6 18

6 10	19 56.52	−14 9.8	2.077	2.932	12.7	21.6
6 20	19 50.14	−13 47.2	1.982	2.913	9.7	21.3
6 30	19 41.73	−13 31.5	1.910	2.894	6.3	21.1
7 10	19 31.93	−13 22.3	1.866	2.873	3.3	20.9
7 20	19 21.61	−13 19.1	1.849	2.852	4.0	20.9
7 30	19 11.77	−13 21.1	1.860	2.830	7.5	21.0
8 9	19 3.36	−13 26.9	1.897	2.808	11.1	21.2
8 19	18 57.08	−13 35.5	1.957	2.784	14.3	21.4

22255 1978 VX_{4} 7 12.8 324°.92 2°.9/11.9 18

6 10	19 52.93	−25 4.5	1.205	2.111	16.6	18.1
6 20	19 48.78	−25 52.1	1.135	2.097	12.2	17.8
6 30	19 41.46	−26 44.4	1.085	2.084	7.3	17.5
7 10	19 31.93	−27 34.9	1.058	2.071	3.1	17.2
7 20	19 21.59	−28 16.7	1.053	2.059	5.5	17.3
7 30	19 12.19	−28 45.1	1.072	2.048	10.7	17.6
8 9	19 5.28	−28 58.7	1.111	2.038	15.6	17.8
8 19	19 1.84	−28 59.1	1.168	2.029	19.9	18.1

222464 2001 RH_{84} 7 12.8 305°.61 1°.3/13.2 17

6 10	19 53.76	−18 17.5	1.501	2.387	15.1	20.4
6 20	19 48.66	−18 18.8	1.427	2.378	11.2	20.1
6 30	19 41.06	−18 27.6	1.375	2.369	6.7	19.9
7 10	19 31.80	−18 41.7	1.346	2.361	2.1	19.6
7 20	19 22.00	−18 58.5	1.343	2.353	3.7	19.6
7 30	19 13.00	−19 15.5	1.365	2.345	8.5	19.9
8 9	19 5.96	−19 31.0	1.410	2.337	13.0	20.2
8 19	19 1.67	−19 43.8	1.475	2.330	16.8	20.4

451396 2011 ED_{18} 7 12.8 189°.63 15°.8/21.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 55.27	+14 23.6	1.358	2.116	23.0	21.2
6 20	19 49.88	+14 59.9	1.293	2.116	20.8	21.0
6 30	19 41.83	+14 57.0	1.243	2.116	18.5	20.9
7 10	19 31.98	+14 8.7	1.209	2.115	16.6	20.7
7 20	19 21.54	+12 33.6	1.195	2.113	15.8	20.7
7 30	19 11.93	+10 16.8	1.202	2.111	16.3	20.7
8 9	19 4.40	+ 7 29.6	1.230	2.109	18.0	20.8
8 19	18 59.80	+ 4 26.1	1.277	2.106	20.4	21.0

395744 2012 UJ_{126} 7 12.8 218°.66 3°.5/11.2 18

6 10	19 55.89	−31 21.6	2.410	3.279	10.7	21.9
6 20	19 49.58	−32 2.5	2.331	3.271	8.0	21.7
6 30	19 41.34	−32 40.3	2.277	3.262	5.3	21.5
7 10	19 31.84	−33 11.0	2.250	3.253	3.5	21.4
7 20	19 21.94	−33 31.2	2.252	3.243	4.7	21.4
7 30	19 12.61	−33 39.3	2.281	3.233	7.4	21.6
8 9	19 4.75	−33 35.7	2.335	3.222	10.3	21.7
8 19	18 58.97	−33 22.2	2.412	3.211	12.8	21.9

289341 2005 BH_{3} 7 12.8 253°.97 5°.2/11.1 18

6 10	20 0.13	−36 4.8	2.156	3.020	12.0	21.3
6 20	19 53.01	−36 34.8	2.069	3.001	9.3	21.1
6 30	19 43.48	−36 57.5	2.005	2.981	6.7	20.9
7 10	19 32.34	−37 7.6	1.968	2.961	5.2	20.8
7 20	19 20.67	−37 1.5	1.957	2.940	6.2	20.8
7 30	19 9.72	−36 38.2	1.974	2.918	8.9	20.9
8 9	19 0.61	−35 59.9	2.016	2.896	11.9	21.1
8 19	18 54.09	−35 10.3	2.079	2.874	14.7	21.2

471700 2012 TP_{255} 7 12.8 317°.15 1°.0/13.1 18

6 10	19 50.73	−17 53.5	1.426	2.318	15.3	20.6
6 20	19 46.82	−18 15.3	1.336	2.290	11.5	20.3
6 30	19 40.24	−18 48.0	1.266	2.263	6.9	20.0
7 10	19 31.69	−19 28.9	1.220	2.235	1.9	19.6
7 20	19 22.27	−20 14.2	1.198	2.209	3.9	19.7
7 30	19 13.36	−20 59.2	1.201	2.183	9.1	19.9
8 9	19 6.35	−21 40.3	1.225	2.157	14.1	20.1
8 19	19 2.24	−22 15.3	1.269	2.133	18.4	20.3

114206 2002 VB_{106} 7 12.8 267°.16 1°.4/13.1 18

6 10	19 55.92	−18 53.6	1.642	2.521	14.4	19.7
6 20	19 50.14	−18 41.7	1.560	2.507	10.7	19.4
6 30	19 41.90	−18 35.0	1.500	2.493	6.4	19.2
7 10	19 32.02	−18 31.8	1.464	2.479	2.0	18.8
7 20	19 21.57	−18 30.6	1.455	2.464	3.6	18.9
7 30	19 11.83	−18 29.9	1.472	2.450	8.3	19.2
8 9	19 3.95	−18 29.0	1.513	2.435	12.6	19.4
8 19	18 58.72	−18 27.6	1.575	2.420	16.4	19.6

116896 2004 FQ_{139} 7 12.8 78°.75 1°.7/13.5 17

6 10	19 52.03	−15 43.7	2.032	2.900	12.4	20.0
6 20	19 46.69	−15 54.8	1.971	2.912	9.2	19.8
6 30	19 39.60	−16 13.6	1.934	2.923	5.6	19.6
7 10	19 31.47	−16 38.2	1.922	2.935	2.2	19.4
7 20	19 23.11	−17 6.3	1.938	2.946	3.1	19.5
7 30	19 15.44	−17 35.5	1.981	2.957	6.6	19.7
8 9	19 9.24	−18 3.8	2.050	2.969	10.0	20.0
8 19	19 5.03	−18 29.7	2.141	2.980	12.9	20.2

442157 2010 VT_{198} 7 12.8 281°.54 2°.5/11.6 18

6 10	19 52.36	−27 52.2	2.304	3.182	10.8	21.0
6 20	19 47.08	−28 29.0	2.221	3.168	8.0	20.8
6 30	19 39.94	−29 5.5	2.163	3.155	4.9	20.6
7 10	19 31.58	−29 38.0	2.131	3.141	2.6	20.4
7 20	19 22.78	−30 3.2	2.128	3.128	4.0	20.5
7 30	19 14.50	−30 19.2	2.151	3.114	7.1	20.7
8 9	19 7.60	−30 25.5	2.199	3.101	10.2	20.8
8 19	19 2.70	−30 23.1	2.270	3.087	13.0	21.0

89500 2001 XK_{48} 7 12.8 247°.12 3°.3/11.8 18

6 10	19 56.24	−31 28.9	2.129	3.004	11.7	18.8
6 20	19 49.91	−31 42.0	2.057	3.000	8.7	18.6
6 30	19 41.54	−31 50.3	2.008	2.996	5.6	18.4
7 10	19 31.92	−31 50.3	1.986	2.992	3.4	18.3
7 20	19 22.00	−31 39.5	1.991	2.988	4.6	18.4
7 30	19 12.86	−31 17.7	2.023	2.984	7.6	18.6
8 9	19 5.42	−30 46.4	2.081	2.980	10.8	18.7
8 19	19 0.28	−30 8.0	2.160	2.976	13.6	18.9

182797 2002 AP_{58} 7 12.8 211°.07 1°.6/13.7 18

6 10	19 50.91	−14 47.7	2.550	3.408	10.6	20.7
6 20	19 45.71	−15 11.8	2.468	3.403	7.9	20.5
6 30	19 39.02	−15 43.4	2.411	3.399	4.9	20.3
7 10	19 31.36	−16 20.8	2.382	3.393	2.0	20.1
7 20	19 23.39	−17 1.8	2.381	3.388	2.7	20.1
7 30	19 15.84	−17 43.9	2.408	3.382	5.7	20.3
8 9	19 9.40	−18 24.9	2.462	3.376	8.7	20.5
8 19	19 4.59	−19 3.2	2.541	3.370	11.4	20.7

262575 2006 VS_{63} 7 12.8 228°.00 3°.1/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 51.84	−12 34.7	2.343	3.197	11.5	20.9
6 20	19 46.44	−12 15.5	2.262	3.191	8.8	20.7
6 30	19 39.45	−12 4.0	2.206	3.186	5.8	20.5
7 10	19 31.46	−11 59.9	2.176	3.180	3.4	20.3
7 20	19 23.17	−12 2.7	2.173	3.174	3.8	20.3
7 30	19 15.38	−12 11.2	2.199	3.168	6.5	20.5
8 9	19 8.83	−12 23.9	2.250	3.162	9.5	20.7
8 19	19 4.02	−12 39.2	2.324	3.156	12.2	20.9

381539 2008 SG_{302} 7 12.8 229°.73 0°.4/12.7 17

6 10	19 53.92	−20 52.0	1.913	2.791	12.7	21.4
6 20	19 48.39	−21 23.8	1.838	2.786	9.3	21.2
6 30	19 40.77	−22 1.0	1.786	2.781	5.4	20.9
7 10	19 31.77	−22 39.9	1.760	2.776	1.2	20.6
7 20	19 22.34	−23 17.1	1.761	2.770	3.2	20.8
7 30	19 13.54	−23 49.5	1.790	2.764	7.3	21.0
8 9	19 6.34	−24 15.5	1.843	2.759	11.1	21.2
8 19	19 1.43	−24 34.8	1.918	2.753	14.3	21.4

263682 2008 GO_{131} 7 12.8 344°.81 3°.0/11.6 18

6 10	19 51.14	−27 54.2	1.823	2.713	12.6	20.5
6 20	19 46.54	−28 33.5	1.753	2.705	9.3	20.3
6 30	19 39.75	−29 12.5	1.705	2.698	5.7	20.1
7 10	19 31.56	−29 46.6	1.682	2.692	3.1	19.9
7 20	19 22.93	−30 11.9	1.685	2.686	4.7	20.0
7 30	19 15.01	−30 26.1	1.714	2.681	8.2	20.2
8 9	19 8.81	−30 29.0	1.766	2.677	11.8	20.4
8 19	19 5.02	−30 21.9	1.840	2.673	14.9	20.6

504916 2011 BH_{29} 7 12.8 214°.45 2°.1/12.1 17

6 10	19 57.56	−26 0.0	1.899	2.775	12.8	22.8
6 20	19 51.14	−26 30.2	1.822	2.769	9.4	22.5
6 30	19 42.41	−27 1.0	1.769	2.762	5.6	22.3
7 10	19 32.16	−27 28.0	1.742	2.755	2.3	22.1
7 20	19 21.44	−27 47.6	1.742	2.747	4.0	22.2
7 30	19 11.44	−27 57.8	1.770	2.738	7.9	22.4
8 9	19 3.21	−27 58.5	1.822	2.729	11.7	22.6
8 19	18 57.50	−27 51.2	1.896	2.720	14.9	22.8

27764 von Flüe 7 12.8 67°.38 1°.1/12.4 18

6 10	19 53.43	−23 52.3	1.960	2.841	12.3	18.2
6 20	19 47.89	−24 13.9	1.897	2.847	8.9	18.0
6 30	19 40.38	−24 37.1	1.857	2.852	5.2	17.7
7 10	19 31.69	−24 58.9	1.844	2.858	1.5	17.5
7 20	19 22.72	−25 16.3	1.857	2.864	3.3	17.7
7 30	19 14.50	−25 27.6	1.897	2.870	7.1	17.9
8 9	19 7.91	−25 32.5	1.963	2.877	10.6	18.1
8 19	19 3.53	−25 31.4	2.050	2.883	13.6	18.3

251469 2008 DT_{13} 7 12.8 349°.05 5°.3/15.2 18

6 10	19 49.81	− 5 59.0	2.018	2.860	13.5	20.8
6 20	19 45.17	− 5 52.6	1.944	2.859	10.8	20.6
6 30	19 38.81	− 6 1.2	1.893	2.857	7.9	20.4
7 10	19 31.35	− 6 24.7	1.866	2.856	5.7	20.3
7 20	19 23.56	− 7 1.9	1.865	2.855	5.6	20.3
7 30	19 16.33	− 7 49.9	1.890	2.854	7.8	20.4
8 9	19 10.43	− 8 45.1	1.940	2.854	10.7	20.6
8 19	19 6.44	− 9 43.5	2.012	2.853	13.5	20.8

238212 2003 UC_{72} 7 12.8 158°.69 7°.2/ 9.3 18

6 10	19 59.08	−40 6.6	2.104	2.965	12.4	20.5
6 20	19 52.38	−41 26.4	2.047	2.968	10.0	20.4
6 30	19 43.18	−42 36.7	2.013	2.972	8.0	20.2
7 10	19 32.34	−43 30.8	2.005	2.975	7.2	20.2
7 20	19 21.04	−44 3.8	2.024	2.978	8.2	20.3
7 30	19 10.58	−44 14.2	2.067	2.980	10.3	20.4
8 9	19 2.11	−44 4.0	2.133	2.982	12.6	20.6
8 19	18 56.39	−43 37.5	2.220	2.984	14.8	20.7

509992 2009 UT_{143} 7 12.8 213°.90 0°.9/12.4 18

6 10	19 55.15	−22 34.4	2.118	2.990	11.8	22.2
6 20	19 49.17	−23 8.9	2.038	2.984	8.6	22.0
6 30	19 41.19	−23 46.8	1.983	2.977	5.0	21.8
7 10	19 31.90	−24 24.7	1.954	2.970	1.3	21.5
7 20	19 22.16	−24 59.1	1.954	2.962	3.2	21.6
7 30	19 13.00	−25 27.4	1.982	2.953	7.0	21.9
8 9	19 5.32	−25 48.6	2.035	2.944	10.5	22.1
8 19	18 59.80	−26 2.5	2.111	2.934	13.6	22.2

144308 2004 DV_{11} 7 12.8 208°.88 0°.3/12.7 18

6 10	19 56.92	−21 38.9	1.851	2.726	13.2	21.0
6 20	19 50.63	−21 55.6	1.774	2.721	9.6	20.8
6 30	19 42.10	−22 16.0	1.721	2.716	5.6	20.5
7 10	19 32.11	−22 37.0	1.694	2.710	1.3	20.2
7 20	19 21.66	−22 55.5	1.694	2.703	3.3	20.3
7 30	19 11.93	−23 9.5	1.722	2.696	7.6	20.6
8 9	19 3.94	−23 18.1	1.774	2.689	11.5	20.8
8 19	18 58.41	−23 21.6	1.849	2.681	14.9	21.0

394863 2008 TE_{116} 7 12.8 229°.80 4°.8/11.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 58.48	−34 34.1	2.103	2.972	12.0	21.7
6 20	19 51.78	−35 11.6	2.026	2.963	9.2	21.5
6 30	19 42.77	−35 43.0	1.974	2.953	6.5	21.3
7 10	19 32.26	−36 3.2	1.947	2.944	4.9	21.2
7 20	19 21.31	−36 8.6	1.948	2.933	6.0	21.3
7 30	19 11.12	−35 58.0	1.975	2.923	8.7	21.4
8 9	19 2.74	−35 33.1	2.027	2.911	11.7	21.6
8 19	18 56.88	−34 57.1	2.100	2.900	14.4	21.7

21229 Sušil 7 12.8 304°.97 0°.3/12.7 18 R

6 10	19 53.44	−21 25.4	1.662	2.547	13.9	19.8
6 20	19 48.32	−21 44.8	1.587	2.539	10.2	19.6
6 30	19 40.86	−22 9.0	1.535	2.531	5.9	19.3
7 10	19 31.85	−22 34.9	1.507	2.523	1.3	19.0
7 20	19 22.34	−22 59.0	1.505	2.515	3.5	19.1
7 30	19 13.56	−23 18.5	1.530	2.507	8.0	19.4
8 9	19 6.60	−23 32.3	1.577	2.499	12.2	19.6
8 19	19 2.21	−23 40.3	1.646	2.492	15.8	19.8

85466 Krastins 7 12.8 27°.88 2°.8/13.8 18

6 10	19 52.40	−14 19.1	1.686	2.560	14.3	19.2
6 20	19 47.32	−14 12.9	1.621	2.563	10.8	19.0
6 30	19 40.15	−14 16.6	1.578	2.566	6.8	18.7
7 10	19 31.67	−14 29.1	1.560	2.570	3.3	18.5
7 20	19 22.88	−14 48.5	1.567	2.574	4.0	18.6
7 30	19 14.85	−15 12.3	1.600	2.578	7.8	18.8
8 9	19 8.54	−15 38.0	1.658	2.582	11.6	19.1
8 19	19 4.57	−16 3.7	1.736	2.586	14.9	19.3

303969 2006 AH_{80} 7 12.8 198°.73 0°.6/13.0 17

6 10	19 57.48	−18 42.0	1.527	2.406	15.2	21.3
6 20	19 51.40	−19 7.4	1.456	2.404	11.2	21.0
6 30	19 42.70	−19 41.2	1.408	2.402	6.6	20.7
7 10	19 32.28	−20 19.5	1.384	2.399	1.7	20.4
7 20	19 21.32	−20 58.2	1.386	2.396	3.6	20.6
7 30	19 11.20	−21 33.7	1.414	2.392	8.6	20.8
8 9	19 3.13	−22 3.5	1.466	2.387	13.0	21.1
8 19	18 57.91	−22 27.1	1.539	2.383	16.8	21.3

8083 Mayeda 7 12.8 300°.61 5°.2/10.6 18 R

6 10	19 55.00	−32 28.7	1.786	2.669	13.2	17.6
6 20	19 49.77	−33 28.4	1.699	2.645	10.1	17.3
6 30	19 41.90	−34 25.9	1.635	2.620	7.0	17.1
7 10	19 32.14	−35 14.6	1.596	2.596	5.2	16.9
7 20	19 21.59	−35 48.6	1.583	2.571	6.7	17.0
7 30	19 11.62	−36 4.5	1.594	2.547	10.0	17.1
8 9	19 3.56	−36 2.7	1.629	2.523	13.6	17.3
8 19	18 58.30	−35 45.7	1.684	2.499	16.8	17.4

512882 2016 WQ_{19} 7 12.8 47°.40 5°.7/14.6 18

6 10	19 51.20	− 6 3.2	2.222	3.056	12.7	21.0
6 20	19 45.98	− 5 16.3	2.153	3.061	10.2	20.9
6 30	19 39.19	− 4 41.1	2.107	3.065	7.7	20.7
7 10	19 31.46	− 4 19.1	2.087	3.069	5.9	20.6
7 20	19 23.50	− 4 10.4	2.093	3.073	6.0	20.6
7 30	19 16.11	− 4 14.4	2.125	3.078	7.9	20.7
8 9	19 9.98	− 4 28.9	2.183	3.083	10.3	20.9
8 19	19 5.64	− 4 51.2	2.262	3.087	12.7	21.1

321142 2008 UV_{186} 7 12.8 303°.47 1°.0/13.1 18

6 10	19 52.56	−18 26.3	1.621	2.505	14.2	20.6
6 20	19 47.80	−18 36.9	1.537	2.487	10.6	20.3
6 30	19 40.65	−18 55.2	1.474	2.469	6.3	20.0
7 10	19 31.85	−19 18.8	1.436	2.451	1.8	19.7
7 20	19 22.41	−19 44.9	1.424	2.433	3.5	19.7
7 30	19 13.57	−20 10.5	1.437	2.416	8.2	20.0
8 9	19 6.51	−20 33.4	1.473	2.399	12.6	20.2
8 19	19 2.02	−20 52.5	1.530	2.382	16.4	20.4

378204 Bettyhesser 7 12.8 221°.69 4°.9/14.5 18

6 10	19 53.67	− 8 57.2	1.790	2.643	14.5	21.6
6 20	19 48.22	− 8 43.9	1.714	2.638	11.4	21.4
6 30	19 40.70	− 8 44.3	1.659	2.634	8.0	21.2
7 10	19 31.83	− 8 58.4	1.630	2.629	5.3	21.0
7 20	19 22.52	− 9 25.0	1.626	2.623	5.4	21.0
7 30	19 13.85	−10 1.6	1.649	2.618	8.3	21.2
8 9	19 6.76	−10 44.6	1.695	2.612	11.8	21.3
8 19	19 1.94	−11 30.6	1.764	2.606	15.1	21.5

471302 2011 HS_{30} 7 12.8 55°.90 1°.5/12.2 17

6 10	19 55.75	−22 3.7	1.451	2.341	15.3	20.9
6 20	19 49.93	−23 5.5	1.412	2.366	11.0	20.7
6 30	19 41.68	−24 11.9	1.395	2.392	6.3	20.5
7 10	19 32.02	−25 16.5	1.403	2.418	1.9	20.3
7 20	19 22.20	−26 13.5	1.437	2.444	4.1	20.5
7 30	19 13.52	−26 59.3	1.497	2.471	8.5	20.8
8 9	19 7.03	−27 32.6	1.579	2.497	12.4	21.1
8 19	19 3.32	−27 54.2	1.683	2.524	15.7	21.4

19488 Abramcoley 7 12.8 158°.73 0°.2/12.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 57.15	−19 50.0	1.803	2.676	13.5	19.1
6 20	19 50.78	−20 31.9	1.737	2.683	9.9	18.9
6 30	19 42.19	−21 20.2	1.694	2.688	5.7	18.6
7 10	19 32.17	−22 10.8	1.678	2.694	1.3	18.4
7 20	19 21.76	−22 59.2	1.689	2.698	3.3	18.5
7 30	19 12.12	−23 41.9	1.728	2.702	7.6	18.8
8 9	19 4.27	−24 17.0	1.792	2.706	11.5	19.0
8 19	18 58.88	−24 44.2	1.878	2.708	14.7	19.3

358897 2008 GA_{50} 7 12.8 335°.03 5°.7/14.9 18

6 10	19 49.30	− 6 12.3	1.991	2.836	13.6	20.1
6 20	19 44.87	− 5 47.3	1.914	2.829	10.9	20.0
6 30	19 38.68	− 5 36.1	1.859	2.822	8.1	19.8
7 10	19 31.38	− 5 39.8	1.828	2.816	6.0	19.6
7 20	19 23.73	− 5 57.7	1.822	2.810	6.0	19.6
7 30	19 16.60	− 6 28.2	1.842	2.805	8.2	19.7
8 9	19 10.81	− 7 8.0	1.887	2.799	11.0	19.9
8 19	19 6.95	− 7 53.5	1.953	2.795	13.8	20.1

372379 2009 PW_9 7 12.8 320°.53 5°.7/13.8 16

6 10	19 50.18	−12 8.1	1.182	2.073	17.9	20.6
6 20	19 46.83	−11 27.2	1.092	2.041	14.0	20.2
6 30	19 40.50	−10 59.0	1.022	2.009	9.7	19.9
7 10	19 31.90	−10 45.6	0.972	1.977	6.1	19.6
7 20	19 22.23	−10 47.9	0.944	1.947	6.8	19.5
7 30	19 13.09	−11 4.9	0.937	1.918	11.3	19.7
8 9	19 6.06	−11 33.4	0.951	1.889	16.5	19.9
8 19	19 2.31	−12 9.2	0.982	1.863	21.2	20.0

158226 2001 SK_{217} 7 12.8 245°.80 1°.5/12.3 18

6 10	19 56.74	−24 42.9	1.956	2.831	12.5	21.9
6 20	19 50.59	−25 8.8	1.869	2.816	9.2	21.6
6 30	19 42.16	−25 36.4	1.806	2.800	5.4	21.4
7 10	19 32.19	−26 2.0	1.769	2.783	1.8	21.1
7 20	19 21.66	−26 22.0	1.760	2.766	3.7	21.2
7 30	19 11.70	−26 34.2	1.778	2.748	7.7	21.4
8 9	19 3.40	−26 38.2	1.821	2.730	11.6	21.6
8 19	18 57.51	−26 34.8	1.885	2.711	14.9	21.8

216283 2006 XF_{26} 7 12.8 271°.40 0°.6/13.1 18

6 10	19 51.52	−18 11.0	2.166	3.038	11.7	20.6
6 20	19 46.49	−18 39.1	2.083	3.027	8.6	20.4
6 30	19 39.65	−19 14.0	2.023	3.016	5.1	20.2
7 10	19 31.61	−19 53.2	1.990	3.005	1.4	19.9
7 20	19 23.15	−20 33.7	1.984	2.994	2.8	20.0
7 30	19 15.16	−21 12.6	2.007	2.983	6.5	20.2
8 9	19 8.49	−21 47.9	2.055	2.971	10.0	20.4
8 19	19 3.77	−22 18.3	2.125	2.960	13.1	20.6

421839 2014 QD_{121} 7 12.8 112°.38 1°.8/13.4 17

6 10	19 57.65	−15 50.6	1.372	2.252	16.6	21.3
6 20	19 51.51	−16 13.7	1.317	2.264	12.3	21.1
6 30	19 42.72	−16 48.3	1.283	2.275	7.4	20.9
7 10	19 32.30	−17 31.0	1.273	2.287	2.6	20.6
7 20	19 21.53	−18 17.1	1.288	2.297	3.9	20.7
7 30	19 11.83	−19 2.4	1.329	2.308	8.8	21.0
8 9	19 4.39	−19 43.6	1.393	2.318	13.2	21.3
8 19	18 59.90	−20 19.1	1.477	2.328	17.0	21.6

457592 2009 AD_{44} 7 12.8 52°.41 2°.2/13.6 17

6 10	19 55.90	−14 36.8	1.090	1.984	18.9	20.7
6 20	19 50.42	−15 9.2	1.055	2.008	13.9	20.5
6 30	19 42.08	−15 56.8	1.039	2.033	8.4	20.3
7 10	19 32.13	−16 54.6	1.045	2.058	3.1	20.1
7 20	19 22.06	−17 56.1	1.074	2.084	4.3	20.2
7 30	19 13.41	−18 55.5	1.127	2.110	9.4	20.6
8 9	19 7.38	−19 48.5	1.202	2.136	14.1	20.9
8 19	19 4.53	−20 32.9	1.296	2.163	17.9	21.3

120672 1997 AK 7 12.8 138°.31 0°.5/12.6 18

6 10	19 56.16	−22 33.6	2.359	3.226	11.0	21.3
6 20	19 49.53	−22 50.6	2.297	3.240	8.0	21.1
6 30	19 41.23	−23 9.3	2.260	3.254	4.6	20.9
7 10	19 31.94	−23 27.2	2.251	3.267	1.1	20.7
7 20	19 22.48	−23 42.0	2.271	3.279	2.7	20.8
7 30	19 13.70	−23 52.4	2.320	3.291	6.1	21.1
8 9	19 6.35	−23 58.0	2.395	3.302	9.2	21.3
8 19	19 0.95	−23 59.2	2.493	3.312	11.9	21.5

212291 2005 MC_{11} 7 12.8 275°.86 0°.2/12.8 18

6 10	19 52.62	−20 43.8	1.991	2.868	12.3	20.5
6 20	19 47.38	−21 8.4	1.917	2.865	9.0	20.3
6 30	19 40.19	−21 37.7	1.867	2.862	5.2	20.1
7 10	19 31.75	−22 8.8	1.843	2.859	1.2	19.8
7 20	19 22.93	−22 38.7	1.847	2.856	3.0	19.9
7 30	19 14.74	−23 4.8	1.877	2.853	7.0	20.2
8 9	19 8.06	−23 25.8	1.933	2.850	10.6	20.4
8 19	19 3.53	−23 41.2	2.011	2.847	13.7	20.6

434727 2006 DA_{190} 7 12.8 108°.08 1°.4/13.4 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 54.94	−16 33.9	2.028	2.893	12.6	22.3
6 20	19 48.79	−16 49.1	1.972	2.912	9.3	22.1
6 30	19 40.85	−17 11.3	1.940	2.930	5.6	21.9
7 10	19 31.87	−17 38.2	1.934	2.947	2.0	21.7
7 20	19 22.71	−18 7.2	1.956	2.965	3.0	21.8
7 30	19 14.31	−18 35.9	2.006	2.981	6.6	22.1
8 9	19 7.47	−19 2.6	2.081	2.997	10.0	22.3
8 19	19 2.70	−19 26.3	2.180	3.013	12.9	22.5

107199 2001 BA_{32} 7 12.8 245°.90 0°.9/13.2 18

6 10	19 56.56	−17 54.4	1.792	2.663	13.7	20.5
6 20	19 50.61	−18 18.0	1.702	2.646	10.2	20.2
6 30	19 42.27	−18 50.0	1.636	2.628	6.1	19.9
7 10	19 32.26	−19 27.4	1.595	2.610	1.7	19.6
7 20	19 21.57	−20 6.7	1.582	2.591	3.4	19.7
7 30	19 11.41	−20 44.6	1.595	2.571	7.9	19.9
8 9	19 2.91	−21 18.4	1.634	2.551	12.2	20.1
8 19	18 56.92	−21 47.1	1.694	2.530	15.8	20.3

120702 1997 JC_5 7 12.8 214°.71 6°.1/16.1 18

6 10	19 49.43	− 0 20.0	2.618	3.421	11.9	20.4
6 20	19 44.60	− 0 6.6	2.537	3.416	9.9	20.2
6 30	19 38.40	− 0 7.9	2.478	3.412	7.9	20.1
7 10	19 31.34	− 0 24.5	2.444	3.407	6.4	20.0
7 20	19 24.00	− 0 55.9	2.436	3.403	6.3	20.0
7 30	19 17.06	− 1 40.4	2.456	3.397	7.5	20.0
8 9	19 11.14	− 2 34.8	2.500	3.392	9.5	20.2
8 19	19 6.70	− 3 35.5	2.569	3.387	11.6	20.3

257941 2000 XB_2 7 12.8 252°.36 9°.9/13.2 18

6 10	19 59.43	− 2 6.8	1.712	2.531	16.6	20.3
6 20	19 52.64	− 0 15.9	1.626	2.515	14.0	20.1
6 30	19 43.43	+ 1 22.4	1.562	2.498	11.5	19.9
7 10	19 32.53	+ 2 42.4	1.522	2.480	10.1	19.7
7 20	19 20.96	+ 3 39.3	1.508	2.462	10.4	19.7
7 30	19 9.95	+ 4 10.9	1.518	2.443	12.5	19.8
8 9	19 0.66	+ 4 18.9	1.552	2.424	15.3	19.9
8 19	18 53.89	+ 4 7.1	1.604	2.404	18.2	20.1

365514 2010 RL_{107} 7 12.8 166°.68 4°.1/11.1 18

6 10	19 54.49	−33 42.1	2.390	3.261	10.7	20.8
6 20	19 48.58	−34 19.5	2.323	3.261	8.1	20.7
6 30	19 40.81	−34 51.8	2.281	3.262	5.6	20.5
7 10	19 31.90	−35 15.2	2.265	3.263	4.1	20.4
7 20	19 22.69	−35 26.7	2.277	3.263	5.1	20.5
7 30	19 14.16	−35 25.2	2.316	3.264	7.6	20.6
8 9	19 7.14	−35 11.8	2.379	3.264	10.2	20.8
8 19	19 2.20	−34 48.6	2.465	3.265	12.6	21.0

336221 2008 SJ_{63} 7 12.8 261°.66 1°.1/12.5 18

6 10	19 56.32	−24 4.2	2.071	2.945	12.0	22.0
6 20	19 50.23	−24 19.9	1.976	2.922	8.9	21.7
6 30	19 41.97	−24 37.1	1.905	2.899	5.2	21.4
7 10	19 32.20	−24 52.8	1.861	2.875	1.5	21.1
7 20	19 21.85	−25 4.1	1.844	2.851	3.4	21.2
7 30	19 11.99	−25 9.3	1.855	2.826	7.4	21.4
8 9	19 3.65	−25 7.9	1.891	2.801	11.1	21.6
8 19	18 57.58	−25 0.7	1.950	2.775	14.5	21.8

91731 1999 TJ_{164} 7 12.8 96°.50 4°.7/14.7 18

6 10	19 50.59	− 7 32.8	2.303	3.143	12.2	19.5
6 20	19 45.55	− 7 8.6	2.231	3.146	9.6	19.4
6 30	19 38.99	− 6 55.5	2.183	3.148	7.0	19.2
7 10	19 31.49	− 6 54.1	2.160	3.151	5.0	19.1
7 20	19 23.75	− 7 3.8	2.164	3.153	5.1	19.1
7 30	19 16.53	− 7 23.3	2.194	3.156	7.1	19.2
8 9	19 10.53	− 7 50.0	2.250	3.158	9.7	19.4
8 19	19 6.23	− 8 21.5	2.329	3.160	12.2	19.6

86069 1999 RO_{32} 7 12.8 213°.01 4°.1/10.7 18

6 10	19 55.49	−36 51.5	3.110	3.965	8.9	19.5
6 20	19 49.03	−37 24.3	3.031	3.956	7.0	19.3
6 30	19 40.98	−37 51.2	2.978	3.948	5.1	19.2
7 10	19 31.94	−38 8.9	2.952	3.939	4.1	19.1
7 20	19 22.61	−38 15.2	2.955	3.929	4.9	19.1
7 30	19 13.79	−38 9.2	2.986	3.919	6.7	19.2
8 9	19 6.18	−37 51.8	3.043	3.908	8.8	19.4
8 19	19 0.32	−37 24.9	3.123	3.897	10.7	19.5

391671 2007 YJ_{61} 7 12.8 262°.23 5°.3/15.8 17

6 10	19 57.49	− 3 23.4	1.202	2.055	20.2	20.6
6 20	19 52.23	− 4 52.3	1.118	2.043	16.1	20.3
6 30	19 43.71	− 7 0.4	1.054	2.030	11.2	19.9
7 10	19 32.70	− 9 44.9	1.013	2.017	6.5	19.6
7 20	19 20.48	−12 55.7	0.998	2.003	6.0	19.6
7 30	19 8.80	−16 17.0	1.009	1.990	10.7	19.8
8 9	18 59.35	−19 31.8	1.045	1.976	16.1	20.0
8 19	18 53.37	−22 28.4	1.103	1.962	21.0	20.3

265021 2003 HP_{22} 7 12.8 63°.92 2°.4/13.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 54.88	−15 53.7	1.541	2.419	15.2	20.2
6 20	19 49.20	−15 44.9	1.487	2.432	11.3	20.0
6 30	19 41.27	−15 45.1	1.455	2.445	7.0	19.8
7 10	19 32.01	−15 52.7	1.446	2.458	3.0	19.6
7 20	19 22.53	−16 5.7	1.464	2.472	3.9	19.7
7 30	19 14.03	−16 21.8	1.507	2.485	8.1	19.9
8 9	19 7.48	−16 39.0	1.574	2.499	12.0	20.2
8 19	19 3.48	−16 55.8	1.661	2.512	15.4	20.5

338708 2003 UK_{54} 7 12.8 211°.67 1°.8/12.1 18

6 10	19 55.93	−27 18.3	2.657	3.522	10.0	22.7
6 20	19 49.44	−27 36.6	2.573	3.514	7.3	22.5
6 30	19 41.26	−27 53.7	2.514	3.505	4.4	22.3
7 10	19 32.02	−28 6.8	2.483	3.495	1.9	22.1
7 20	19 22.45	−28 13.7	2.482	3.485	3.2	22.2
7 30	19 13.39	−28 13.3	2.510	3.474	6.2	22.4
8 9	19 5.61	−28 5.9	2.564	3.462	9.1	22.5
8 19	18 59.65	−27 52.4	2.642	3.450	11.6	22.7

135625 2002 JR_{71} 7 12.8 42°.02 0°.9/12.5 17

6 10	19 54.44	−20 0.5	1.105	2.008	17.9	19.3
6 20	19 49.62	−21 1.1	1.063	2.024	13.0	19.0
6 30	19 41.81	−22 11.4	1.041	2.040	7.4	18.8
7 10	19 32.17	−23 23.9	1.041	2.057	1.7	18.5
7 20	19 22.21	−24 30.9	1.065	2.075	4.5	18.7
7 30	19 13.59	−25 26.7	1.112	2.093	9.9	19.1
8 9	19 7.58	−26 8.9	1.181	2.112	14.6	19.4
8 19	19 4.88	−26 37.5	1.268	2.131	18.5	19.7

486810 2014 JS 7 12.8 283°.09 2°.7/11.5 18

6 10	19 52.76	−26 59.6	2.147	3.027	11.4	20.7
6 20	19 47.57	−27 54.3	2.068	3.016	8.4	20.5
6 30	19 40.39	−28 50.3	2.013	3.005	5.2	20.2
7 10	19 31.86	−29 42.9	1.985	2.995	2.8	20.1
7 20	19 22.85	−30 28.0	1.984	2.984	4.3	20.1
7 30	19 14.35	−31 2.6	2.011	2.973	7.5	20.3
8 9	19 7.31	−31 25.7	2.062	2.963	10.8	20.5
8 19	19 2.41	−31 38.0	2.135	2.952	13.7	20.7

242699 2005 TY_{54} 7 12.8 282°.63 2°.7/11.4 18

6 10	19 52.77	−26 51.4	2.189	3.068	11.3	20.0
6 20	19 47.59	−27 50.8	2.105	3.053	8.3	19.8
6 30	19 40.42	−28 52.0	2.046	3.038	5.1	19.6
7 10	19 31.88	−29 50.3	2.013	3.023	2.8	19.4
7 20	19 22.79	−30 41.4	2.008	3.008	4.3	19.5
7 30	19 14.17	−31 21.9	2.031	2.993	7.6	19.7
8 9	19 6.95	−31 50.6	2.079	2.978	10.8	19.8
8 19	19 1.85	−32 7.9	2.148	2.963	13.7	20.0

177735 2005 JC_{25} 7 12.9 83°.03 4°.7/14.2 17

6 10	19 54.99	−11 14.1	1.472	2.341	16.3	20.3
6 20	19 49.44	−10 51.7	1.411	2.347	12.5	20.0
6 30	19 41.51	−10 42.9	1.371	2.353	8.4	19.8
7 10	19 32.10	−10 47.6	1.354	2.358	5.1	19.6
7 20	19 22.35	−11 4.3	1.363	2.364	5.5	19.7
7 30	19 13.51	−11 30.6	1.396	2.370	9.0	19.9
8 9	19 6.65	−12 2.8	1.452	2.376	12.9	20.1
8 19	19 2.44	−12 37.6	1.529	2.381	16.4	20.4

140625 2001 UZ_{12} 7 12.9 196°.44 0°.7/12.5 18

6 10	19 52.75	−23 8.6	2.776	3.643	9.5	20.8
6 20	19 47.04	−23 33.2	2.697	3.640	6.9	20.6
6 30	19 39.84	−23 59.5	2.643	3.636	4.0	20.4
7 10	19 31.72	−24 25.2	2.617	3.632	1.1	20.2
7 20	19 23.31	−24 48.0	2.621	3.628	2.5	20.3
7 30	19 15.35	−25 6.4	2.653	3.623	5.5	20.5
8 9	19 8.50	−25 19.6	2.712	3.618	8.4	20.6
8 19	19 3.28	−25 27.8	2.796	3.612	10.8	20.8

444670 2007 DK_{23} 7 12.9 72°.23 1°.5/12.3 18

6 10	19 53.13	−25 59.1	2.254	3.131	11.1	21.1
6 20	19 47.50	−26 13.6	2.192	3.139	8.0	21.0
6 30	19 40.14	−26 27.6	2.154	3.147	4.7	20.8
7 10	19 31.77	−26 38.4	2.142	3.156	1.8	20.6
7 20	19 23.21	−26 44.0	2.159	3.164	3.2	20.7
7 30	19 15.33	−26 43.3	2.203	3.173	6.5	20.9
8 9	19 8.90	−26 36.5	2.272	3.181	9.6	21.1
8 19	19 4.45	−26 24.5	2.364	3.190	12.2	21.3

335775 2007 EH_{180} 7 12.9 8°.41 9°.4/10.9 17

6 10	19 58.63	−41 5.8	1.299	2.184	17.0	19.5
6 20	19 53.01	−41 55.8	1.249	2.185	13.7	19.3
6 30	19 43.92	−42 30.0	1.218	2.187	10.8	19.1
7 10	19 32.67	−42 39.5	1.209	2.190	9.4	19.0
7 20	19 21.08	−42 19.7	1.222	2.194	10.4	19.1
7 30	19 11.08	−41 31.4	1.257	2.199	13.1	19.3
8 9	19 4.13	−40 20.8	1.313	2.204	16.3	19.5
8 19	19 0.94	−38 55.7	1.386	2.211	19.3	19.7

241740 2000 XF_{22} 7 12.9 222°.31 1°.0/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 56.52	−19 23.7	2.264	3.127	11.5	20.9
6 20	19 50.02	−19 9.1	2.177	3.117	8.5	20.6
6 30	19 41.68	−18 57.3	2.115	3.106	5.1	20.4
7 10	19 32.15	−18 47.2	2.081	3.095	1.6	20.1
7 20	19 22.26	−18 37.8	2.075	3.083	2.9	20.2
7 30	19 12.93	−18 28.5	2.097	3.071	6.5	20.4
8 9	19 5.00	−18 18.9	2.146	3.058	9.9	20.6
8 19	18 59.08	−18 9.1	2.219	3.044	12.9	20.8

287206 2002 SK_{44} 7 12.9 246°.91 3°.2/11.6 18

6 10	19 58.04	−28 10.7	1.831	2.709	13.1	21.0
6 20	19 51.80	−28 55.3	1.747	2.694	9.8	20.8
6 30	19 43.04	−29 39.9	1.687	2.678	6.1	20.5
7 10	19 32.51	−30 19.0	1.652	2.662	3.3	20.3
7 20	19 21.32	−30 47.9	1.645	2.645	5.0	20.4
7 30	19 10.77	−31 3.8	1.664	2.627	8.8	20.6
8 9	19 2.07	−31 6.4	1.707	2.609	12.6	20.8
8 19	18 56.06	−30 58.0	1.771	2.591	15.9	21.0

427588 2003 SF_{67} 7 12.9 273°.21 2°.9/12.2 17

6 10	19 58.87	−27 53.7	1.464	2.352	15.2	20.8
6 20	19 52.78	−28 7.9	1.387	2.339	11.3	20.6
6 30	19 43.73	−28 20.0	1.332	2.326	6.9	20.3
7 10	19 32.68	−28 25.1	1.301	2.313	3.1	20.0
7 20	19 20.98	−28 19.4	1.295	2.300	5.0	20.1
7 30	19 10.22	−28 1.6	1.314	2.286	9.6	20.3
8 9	19 1.80	−27 33.3	1.356	2.273	14.1	20.5
8 19	18 56.57	−26 57.6	1.417	2.260	18.0	20.8

352452 2008 AF_{68} 7 12.9 6°.91 2°.5/14.2 18

6 10	19 50.82	−12 15.0	1.999	2.861	12.9	20.7
6 20	19 46.03	−12 45.3	1.926	2.861	9.7	20.5
6 30	19 39.43	−13 27.6	1.877	2.862	6.2	20.3
7 10	19 31.67	−14 19.7	1.853	2.862	3.0	20.1
7 20	19 23.54	−15 18.3	1.856	2.863	3.5	20.2
7 30	19 15.98	−16 19.7	1.887	2.863	6.8	20.4
8 9	19 9.81	−17 20.2	1.943	2.864	10.3	20.6
8 19	19 5.62	−18 16.9	2.022	2.865	13.3	20.8

443096 2013 HE_{21} 7 12.9 149°.53 3°.6/14.7 18

6 10	19 50.31	− 8 27.3	2.833	3.666	10.3	22.2
6 20	19 45.11	− 8 18.8	2.761	3.674	8.0	22.1
6 30	19 38.66	− 8 19.5	2.713	3.680	5.7	22.0
7 10	19 31.47	− 8 29.1	2.693	3.687	3.9	21.8
7 20	19 24.09	− 8 46.6	2.700	3.693	3.9	21.9
7 30	19 17.15	− 9 10.7	2.736	3.699	5.8	22.0
8 9	19 11.20	− 9 39.4	2.799	3.704	8.1	22.1
8 19	19 6.67	−10 10.8	2.885	3.709	10.3	22.3

320262 2007 RA 7 12.9 298°.63 2°.3/13.8 18

6 10	19 51.72	−13 53.2	1.744	2.616	14.0	20.4
6 20	19 47.04	−14 15.5	1.662	2.603	10.6	20.1
6 30	19 40.19	−14 50.0	1.602	2.591	6.7	19.9
7 10	19 31.87	−15 34.8	1.567	2.578	2.9	19.6
7 20	19 23.00	−16 26.4	1.558	2.566	3.7	19.7
7 30	19 14.68	−17 20.9	1.575	2.553	7.7	19.9
8 9	19 7.95	−18 14.6	1.616	2.541	11.8	20.1
8 19	19 3.53	−19 4.6	1.679	2.530	15.3	20.3

33871 Locastillo 7 12.9 73°.95 1°.1/12.6 18

6 10	19 58.25	−23 30.0	1.283	2.177	16.6	18.9
6 20	19 52.28	−23 41.1	1.225	2.181	12.1	18.7
6 30	19 43.36	−23 54.8	1.188	2.185	7.1	18.4
7 10	19 32.58	−24 7.0	1.174	2.189	1.8	18.1
7 20	19 21.39	−24 13.8	1.184	2.193	4.3	18.3
7 30	19 11.40	−24 13.5	1.219	2.197	9.5	18.6
8 9	19 3.93	−24 6.4	1.275	2.201	14.2	18.8
8 19	18 59.71	−23 53.9	1.351	2.205	18.1	19.1

206537 2003 UY_{187} 7 12.9 282°.56 1°.2/12.5 18

6 10	19 54.82	−24 18.5	1.847	2.728	12.9	20.4
6 20	19 49.29	−24 31.4	1.762	2.712	9.5	20.1
6 30	19 41.49	−24 45.8	1.701	2.696	5.6	19.9
7 10	19 32.17	−24 58.5	1.665	2.680	1.6	19.6
7 20	19 22.31	−25 6.5	1.657	2.664	3.6	19.7
7 30	19 13.09	−25 8.2	1.674	2.648	7.8	19.9
8 9	19 5.57	−25 3.2	1.716	2.632	11.7	20.1
8 19	19 0.49	−24 52.6	1.780	2.616	15.2	20.3

417864 2007 KQ_{3} 7 12.9 50°.50 1°.6/12.1 17

6 10	19 54.42	−20 46.7	1.463	2.352	15.2	20.0
6 20	19 49.20	−22 10.0	1.412	2.366	11.0	19.8
6 30	19 41.47	−23 41.3	1.384	2.381	6.3	19.6
7 10	19 32.15	−25 13.2	1.381	2.396	1.9	19.3
7 20	19 22.44	−26 38.2	1.404	2.411	4.2	19.5
7 30	19 13.69	−27 50.6	1.452	2.426	8.8	19.8
8 9	19 7.03	−28 47.8	1.525	2.442	12.9	20.1
8 19	19 3.18	−29 29.8	1.617	2.458	16.3	20.4

187388 2005 UM_{461} 7 12.9 7°.12 4°.3/10.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 53.31	−31 40.9	2.047	2.927	11.9	19.9
6 20	19 48.04	−32 37.2	1.983	2.927	8.9	19.7
6 30	19 40.67	−33 30.4	1.942	2.928	6.0	19.5
7 10	19 31.96	−34 15.3	1.928	2.929	4.3	19.4
7 20	19 22.88	−34 47.8	1.940	2.930	5.5	19.5
7 30	19 14.49	−35 5.8	1.979	2.931	8.3	19.7
8 9	19 7.76	−35 9.7	2.041	2.933	11.3	19.9
8 19	19 3.35	−35 1.3	2.125	2.935	14.0	20.1

30011 2000 CM_{56} 7 12.9 3°.86 5°.7/11.5 18

6 10	19 52.79	−29 48.8	0.912	1.832	19.1	17.7
6 20	19 49.31	−30 41.1	0.863	1.830	14.3	17.4
6 30	19 42.06	−31 30.7	0.833	1.830	9.2	17.1
7 10	19 32.34	−32 8.1	0.822	1.831	5.8	16.9
7 20	19 22.02	−32 26.0	0.832	1.834	7.8	17.1
7 30	19 13.25	−32 21.6	0.861	1.837	12.7	17.3
8 9	19 7.71	−31 57.6	0.909	1.843	17.6	17.6
8 19	19 6.21	−31 19.1	0.973	1.849	21.8	17.9

506587 2005 WE_{88} 7 12.9 218°.54 2°.2/11.8 18

6 10	19 55.72	−24 8.9	1.934	2.812	12.6	21.9
6 20	19 49.91	−25 15.9	1.859	2.807	9.2	21.7
6 30	19 41.85	−26 27.1	1.807	2.801	5.4	21.5
7 10	19 32.26	−27 37.1	1.782	2.795	2.3	21.2
7 20	19 22.12	−28 40.6	1.785	2.788	4.1	21.4
7 30	19 12.55	−29 33.3	1.815	2.781	8.0	21.6
8 9	19 4.62	−30 13.5	1.870	2.774	11.6	21.8
8 19	18 59.08	−30 41.4	1.947	2.766	14.7	22.0

498331 2007 VS_{226} 7 12.9 233°.53 4°.6/11.1 17

6 10	19 59.47	−30 13.9	1.646	2.528	14.2	21.7
6 20	19 53.14	−31 18.1	1.571	2.518	10.7	21.5
6 30	19 43.95	−32 21.3	1.519	2.508	7.0	21.2
7 10	19 32.77	−33 16.2	1.492	2.496	4.7	21.1
7 20	19 20.85	−33 56.3	1.491	2.485	6.3	21.1
7 30	19 9.73	−34 18.4	1.516	2.473	10.0	21.3
8 9	19 0.76	−34 22.8	1.564	2.460	13.9	21.5
8 19	18 54.85	−34 12.4	1.631	2.447	17.2	21.7

440484 2005 TO_{47} 7 12.9 296°.22 2°.8/13.8 15

6 10	19 51.35	−13 49.0	2.076	2.940	12.4	21.8
6 20	19 46.51	−13 39.5	1.981	2.917	9.4	21.5
6 30	19 39.79	−13 38.4	1.910	2.895	6.1	21.3
7 10	19 31.80	−13 45.1	1.864	2.872	3.2	21.1
7 20	19 23.30	−13 58.5	1.845	2.850	3.8	21.1
7 30	19 15.22	−14 16.9	1.853	2.827	7.1	21.2
8 9	19 8.45	−14 38.6	1.885	2.805	10.7	21.4
8 19	19 3.65	−15 1.5	1.941	2.782	13.9	21.6

94549 2001 VV_{5} 7 12.9 333°.93 3°.1/11.8 18

6 10	19 50.62	−23 55.7	0.987	1.904	18.2	18.7
6 20	19 47.67	−24 58.7	0.921	1.889	13.5	18.4
6 30	19 41.22	−26 11.0	0.874	1.875	8.1	18.0
7 10	19 32.22	−27 24.3	0.848	1.862	3.3	17.7
7 20	19 22.22	−28 29.3	0.843	1.850	6.2	17.8
7 30	19 13.24	−29 18.5	0.859	1.839	12.0	18.1
8 9	19 7.08	−29 49.0	0.893	1.830	17.4	18.4
8 19	19 4.84	−30 1.7	0.944	1.822	22.1	18.6

158384 2001 XV_{224} 7 12.9 156°.64 2°.3/11.9 17

6 10	19 57.21	−26 38.8	2.038	2.912	12.2	21.3
6 20	19 50.72	−27 13.8	1.973	2.919	8.9	21.1
6 30	19 42.16	−27 48.5	1.932	2.924	5.3	20.9
7 10	19 32.31	−28 18.8	1.918	2.930	2.4	20.7
7 20	19 22.15	−28 41.2	1.932	2.935	3.9	20.8
7 30	19 12.76	−28 54.0	1.973	2.939	7.4	21.1
8 9	19 5.05	−28 57.2	2.039	2.943	10.8	21.3
8 19	18 59.67	−28 52.2	2.128	2.946	13.7	21.5

293113 2006 XA_{29} 7 12.9 257°.22 2°.1/11.8 18

6 10	19 53.03	−25 39.5	2.254	3.130	11.1	21.3
6 20	19 47.69	−26 28.2	2.173	3.120	8.1	21.1
6 30	19 40.45	−27 18.8	2.117	3.110	4.9	20.9
7 10	19 31.95	−28 7.2	2.088	3.100	2.2	20.7
7 20	19 22.99	−28 49.7	2.086	3.089	3.7	20.8
7 30	19 14.53	−29 23.3	2.113	3.079	7.0	21.0
8 9	19 7.43	−29 47.2	2.165	3.068	10.3	21.2
8 19	19 2.36	−30 1.6	2.239	3.057	13.1	21.3

103072 1999 XJ_{151} 7 12.9 182°.11 2°.9/11.4 18

6 10	19 56.47	−30 53.6	2.823	3.685	9.5	21.5
6 20	19 49.79	−31 29.1	2.749	3.686	7.1	21.4
6 30	19 41.48	−32 1.6	2.702	3.687	4.6	21.2
7 10	19 32.16	−32 27.7	2.683	3.686	2.9	21.1
7 20	19 22.56	−32 45.0	2.692	3.685	3.9	21.1
7 30	19 13.49	−32 52.2	2.731	3.683	6.4	21.3
8 9	19 5.69	−32 49.7	2.796	3.681	8.9	21.5
8 19	18 59.69	−32 38.9	2.885	3.678	11.1	21.6

8752 Flammeus 7 12.9 37°.57 3°.0/12.2 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 56.42	−26 29.1	1.061	1.969	18.1	17.2
6 20	19 51.19	−26 57.7	1.022	1.984	13.2	17.0
6 30	19 42.76	−27 25.9	1.003	2.001	7.8	16.8
7 10	19 32.46	−27 47.4	1.005	2.018	3.3	16.6
7 20	19 21.99	−27 57.4	1.030	2.036	5.5	16.8
7 30	19 13.10	−27 54.6	1.077	2.055	10.4	17.1
8 9	19 7.09	−27 40.5	1.145	2.075	15.0	17.4
8 19	19 4.57	−27 18.1	1.231	2.095	18.9	17.7

433182 2012 TV_{314} 7 12.9 301°.27 18°.3/23.0 16

6 10	19 50.73	+25 42.3	1.836	2.482	21.1	20.6
6 20	19 46.40	+26 55.0	1.760	2.464	20.3	20.5
6 30	19 39.89	+27 33.8	1.696	2.447	19.4	20.4
7 10	19 31.86	+27 31.8	1.647	2.429	18.7	20.3
7 20	19 23.22	+26 45.0	1.612	2.412	18.3	20.2
7 30	19 15.08	+25 12.8	1.595	2.395	18.4	20.2
8 9	19 8.49	+23 0.4	1.595	2.378	19.0	20.2
8 19	19 4.23	+20 16.4	1.612	2.362	20.1	20.2

470647 2008 SY_{117} 7 12.9 242°.72 0°.3/12.8 18

6 10	19 55.14	−21 36.7	2.116	2.988	11.9	22.2
6 20	19 49.27	−21 53.4	2.029	2.974	8.7	22.0
6 30	19 41.39	−22 13.6	1.966	2.960	5.1	21.7
7 10	19 32.18	−22 34.6	1.930	2.945	1.2	21.4
7 20	19 22.49	−22 53.7	1.921	2.930	3.0	21.6
7 30	19 13.32	−23 8.9	1.940	2.914	6.9	21.8
8 9	19 5.60	−23 19.4	1.985	2.898	10.6	22.0
8 19	19 0.02	−23 25.0	2.052	2.881	13.7	22.1

415739 2000 CW_{64} 7 12.9 109°.81 1°.3/13.5 17

6 10	19 55.92	−15 39.1	1.683	2.554	14.5	20.9
6 20	19 49.94	−16 18.9	1.626	2.568	10.7	20.7
6 30	19 41.77	−17 9.1	1.591	2.582	6.4	20.5
7 10	19 32.25	−18 6.0	1.581	2.595	2.1	20.2
7 20	19 22.42	−19 5.1	1.599	2.608	3.3	20.3
7 30	19 13.43	−20 1.9	1.643	2.621	7.6	20.6
8 9	19 6.27	−20 53.3	1.713	2.633	11.5	20.9
8 19	19 1.58	−21 37.7	1.804	2.645	14.8	21.1

512361 2016 NY_{45} 7 12.9 251°.70 4°.4/15.4 18

6 10	19 53.13	− 6 4.0	1.878	2.719	14.5	20.8
6 20	19 47.91	− 6 50.2	1.795	2.712	11.4	20.5
6 30	19 40.67	− 7 56.1	1.734	2.705	8.0	20.3
7 10	19 32.03	− 9 19.8	1.698	2.697	5.0	20.1
7 20	19 22.86	−10 57.1	1.689	2.689	4.8	20.1
7 30	19 14.18	−12 42.2	1.709	2.682	7.8	20.3
8 9	19 6.96	−14 28.6	1.754	2.674	11.3	20.5
8 19	19 1.89	−16 10.8	1.823	2.665	14.6	20.7

250718 2005 SK_{12} 7 12.9 359°.09 3°.0/12.2 18

6 10	19 54.24	−29 20.9	1.675	2.564	13.6	19.2
6 20	19 48.93	−29 27.4	1.610	2.562	10.1	19.0
6 30	19 41.26	−29 30.2	1.567	2.560	6.2	18.8
7 10	19 32.14	−29 25.6	1.549	2.559	3.1	18.6
7 20	19 22.71	−29 11.2	1.556	2.559	4.6	18.7
7 30	19 14.22	−28 46.6	1.589	2.560	8.4	18.9
8 9	19 7.71	−28 13.6	1.645	2.562	12.1	19.2
8 19	19 3.82	−27 34.6	1.723	2.564	15.4	19.4

399853 2005 UA_{269} 7 12.9 273°.50 4°.2/10.9 18

6 10	19 54.41	−32 38.6	2.235	3.109	11.2	20.9
6 20	19 48.79	−33 24.8	2.158	3.099	8.5	20.7
6 30	19 41.13	−34 7.5	2.104	3.088	5.8	20.5
7 10	19 32.13	−34 41.8	2.078	3.077	4.2	20.4
7 20	19 22.67	−35 4.2	2.078	3.066	5.4	20.5
7 30	19 13.81	−35 12.9	2.105	3.056	8.1	20.6
8 9	19 6.50	−35 8.1	2.157	3.045	10.9	20.8
8 19	19 1.39	−34 52.1	2.230	3.034	13.6	20.9

16852 Nuredduna 7 12.9 295°.12 3°.7/13.8 18 R

6 10	19 54.27	−14 7.9	1.334	2.217	16.7	17.2
6 20	19 49.57	−13 51.7	1.249	2.195	12.8	16.9
6 30	19 42.02	−13 47.3	1.184	2.174	8.4	16.6
7 10	19 32.40	−13 54.5	1.142	2.152	4.3	16.3
7 20	19 21.90	−14 12.0	1.124	2.130	5.1	16.3
7 30	19 12.04	−14 37.0	1.129	2.109	9.9	16.5
8 9	19 4.24	−15 6.4	1.156	2.087	14.8	16.7
8 19	18 59.50	−15 37.2	1.202	2.067	19.2	17.0

469682 2004 XL_{103} 7 12.9 251°.60 3°.1/11.5 18

6 10	19 56.63	−28 43.9	2.095	2.970	11.9	21.9
6 20	19 50.56	−29 28.6	2.008	2.953	8.8	21.7
6 30	19 42.25	−30 13.0	1.945	2.935	5.6	21.4
7 10	19 32.40	−30 52.1	1.908	2.916	3.2	21.2
7 20	19 21.96	−31 21.8	1.899	2.897	4.7	21.3
7 30	19 12.04	−31 39.5	1.917	2.878	8.0	21.5
8 9	19 3.71	−31 44.9	1.960	2.858	11.4	21.6
8 19	18 57.73	−31 39.7	2.025	2.837	14.5	21.8

445472 2010 VA_{89} 7 12.9 279°.77 4°.6/10.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 54.12	−34 8.3	2.350	3.221	10.9	21.1
6 20	19 48.58	−35 1.5	2.269	3.206	8.3	20.9
6 30	19 41.02	−35 50.8	2.213	3.192	5.9	20.7
7 10	19 32.11	−36 31.2	2.183	3.177	4.6	20.6
7 20	19 22.71	−36 58.8	2.180	3.162	5.7	20.6
7 30	19 13.83	−37 11.8	2.204	3.147	8.2	20.8
8 9	19 6.43	−37 10.3	2.252	3.132	10.9	20.9
8 19	19 1.18	−36 56.4	2.322	3.117	13.4	21.1

167330 2003 UT_{276} 7 12.9 59°.48 0°.5/13.0 18

6 10	19 54.60	−20 30.4	1.816	2.694	13.2	19.7
6 20	19 48.92	−20 27.1	1.749	2.696	9.7	19.5
6 30	19 41.16	−20 27.5	1.705	2.699	5.7	19.3
7 10	19 32.12	−20 29.7	1.686	2.701	1.4	19.0
7 20	19 22.78	−20 31.8	1.695	2.704	3.1	19.1
7 30	19 14.23	−20 32.5	1.730	2.707	7.3	19.4
8 9	19 7.40	−20 31.2	1.789	2.710	11.1	19.6
8 19	19 2.89	−20 27.8	1.870	2.712	14.3	19.8

147888 2006 RY_{30} 7 12.9 292°.31 4°.4/13.9 18

6 10	19 54.41	−12 51.8	1.438	2.314	16.2	20.2
6 20	19 49.36	−12 23.0	1.360	2.301	12.5	19.9
6 30	19 41.72	−12 5.5	1.302	2.287	8.3	19.6
7 10	19 32.32	−11 59.9	1.268	2.274	4.8	19.4
7 20	19 22.27	−12 5.4	1.258	2.261	5.4	19.4
7 30	19 12.96	−12 20.3	1.272	2.248	9.4	19.6
8 9	19 5.59	−12 42.0	1.309	2.236	13.8	19.8
8 19	19 1.03	−13 7.4	1.366	2.223	17.7	20.0

179395 2001 YX_{114} 7 12.9 149°.46 0°.0/12.9 18

6 10	19 52.02	−19 24.8	2.271	3.141	11.2	20.2
6 20	19 46.78	−20 3.8	2.199	3.144	8.2	20.0
6 30	19 39.85	−20 48.3	2.152	3.146	4.8	19.8
7 10	19 31.85	−21 35.3	2.132	3.148	1.1	19.5
7 20	19 23.52	−22 21.6	2.141	3.150	2.6	19.6
7 30	19 15.72	−23 4.4	2.177	3.152	6.2	19.9
8 9	19 9.22	−23 41.8	2.240	3.154	9.5	20.1
8 19	19 4.60	−24 12.8	2.325	3.155	12.3	20.3

440314 2004 ST_{50} 7 12.9 300°.36 3°.8/11.3 18

6 10	19 53.94	−32 17.1	2.256	3.131	11.1	21.2
6 20	19 48.35	−32 51.8	2.184	3.126	8.4	21.1
6 30	19 40.83	−33 22.6	2.136	3.121	5.6	20.9
7 10	19 32.07	−33 45.2	2.115	3.116	3.9	20.8
7 20	19 22.98	−33 56.7	2.120	3.112	5.0	20.8
7 30	19 14.53	−33 55.8	2.152	3.107	7.7	21.0
8 9	19 7.61	−33 43.3	2.209	3.102	10.5	21.1
8 19	19 2.84	−33 21.1	2.288	3.098	13.1	21.3

511246 2014 BT_{35} 7 12.9 202°.50 0°.6/13.2 17

6 10	19 54.30	−18 26.3	2.383	3.246	11.0	22.9
6 20	19 48.39	−18 47.2	2.302	3.242	8.1	22.7
6 30	19 40.78	−19 13.5	2.245	3.236	4.8	22.5
7 10	19 32.06	−19 42.8	2.216	3.230	1.3	22.3
7 20	19 22.99	−20 12.8	2.215	3.224	2.6	22.3
7 30	19 14.40	−20 41.3	2.243	3.217	6.1	22.6
8 9	19 7.08	−21 6.7	2.298	3.209	9.4	22.8
8 19	19 1.60	−21 28.3	2.376	3.201	12.2	22.9

190601 2000 UP_{75} 7 12.9 320°.10 3°.4/13.9 18

6 10	19 50.61	−13 38.8	1.383	2.269	16.1	19.6
6 20	19 46.77	−13 37.8	1.299	2.247	12.3	19.3
6 30	19 40.34	−13 50.4	1.235	2.225	8.0	19.0
7 10	19 32.04	−14 15.9	1.194	2.204	4.0	18.7
7 20	19 22.97	−14 51.9	1.176	2.184	4.7	18.7
7 30	19 14.49	−15 34.7	1.183	2.164	9.3	18.9
8 9	19 7.92	−16 20.4	1.211	2.146	14.0	19.1
8 19	19 4.18	−17 5.1	1.259	2.128	18.2	19.3

20794 Ryanolson 7 12.9 278°.62 1°.0/12.7 18

6 10	19 57.89	−24 1.7	1.473	2.360	15.2	18.8
6 20	19 52.10	−24 5.0	1.389	2.342	11.3	18.6
6 30	19 43.42	−24 9.8	1.327	2.323	6.6	18.2
7 10	19 32.74	−24 12.5	1.289	2.304	1.8	17.9
7 20	19 21.30	−24 9.9	1.277	2.286	4.1	18.0
7 30	19 10.64	−24 0.4	1.289	2.267	9.2	18.2
8 9	19 2.15	−23 44.4	1.325	2.247	14.0	18.5
8 19	18 56.75	−23 23.6	1.380	2.228	18.1	18.7

316710 1997 GQ_2 7 12.9 26°.53 2°.2/12.3 17

6 10	19 54.28	−24 54.6	1.106	2.014	17.5	20.0
6 20	19 49.63	−25 19.4	1.061	2.024	12.8	19.7
6 30	19 41.91	−25 46.1	1.036	2.035	7.5	19.5
7 10	19 32.34	−26 9.2	1.032	2.047	2.6	19.2
7 20	19 22.49	−26 23.9	1.051	2.060	4.9	19.4
7 30	19 14.01	−26 28.2	1.093	2.074	10.0	19.7
8 9	19 8.21	−26 22.5	1.156	2.088	14.7	20.0
8 19	19 5.76	−26 8.7	1.237	2.104	18.6	20.3

383921 2008 SM_{152} 7 12.9 171.°70 10.°4/17.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 52.69	+ 8 9.9	2.183	2.942	15.3	20.6
6 20	19 47.24	+ 9 8.1	2.114	2.944	13.5	20.5
6 30	19 40.11	+ 9 45.4	2.065	2.946	11.8	20.3
7 10	19 31.92	+ 9 58.6	2.039	2.948	10.6	20.3
7 20	19 23.42	+ 9 46.6	2.035	2.949	10.4	20.3
7 30	19 15.44	+ 9 10.7	2.055	2.950	11.2	20.3
8 9	19 8.76	+ 8 14.9	2.098	2.950	12.7	20.4
8 19	19 3.92	+ 7 4.6	2.162	2.950	14.4	20.5

249453 2009 HD_{39} 7 12.9 311.°02 0.°8/12.5 18

6 10	19 51.48	−20 50.0	1.895	2.777	12.6	20.0
6 20	19 46.86	−21 40.2	1.812	2.763	9.2	19.7
6 30	19 40.13	−22 37.5	1.753	2.749	5.4	19.5
7 10	19 31.96	−23 37.7	1.720	2.735	1.3	19.1
7 20	19 23.24	−24 36.3	1.714	2.722	3.3	19.3
7 30	19 15.02	−25 29.2	1.734	2.709	7.5	19.5
8 9	19 8.32	−26 13.8	1.780	2.697	11.3	19.7
8 19	19 3.86	−26 49.0	1.846	2.684	14.6	19.9

240613 2004 XW_{33} 7 12.9 211.°89 1.°0/12.5 18

6 10	19 54.80	−22 45.5	1.988	2.864	12.3	21.3
6 20	19 49.09	−23 16.8	1.913	2.861	9.0	21.1
6 30	19 41.32	−23 51.4	1.863	2.857	5.2	20.9
7 10	19 32.23	−24 25.8	1.838	2.853	1.4	20.6
7 20	19 22.71	−24 56.5	1.841	2.849	3.3	20.7
7 30	19 13.83	−25 21.1	1.872	2.845	7.2	21.0
8 9	19 6.53	−25 38.4	1.927	2.840	10.8	21.2
8 19	19 1.48	−25 48.7	2.005	2.835	13.9	21.4

261082 2005 SP_{226} 7 12.9 232.°18 0.°1/12.9 18

6 10	19 52.43	−21 14.0	2.517	3.386	10.3	21.6
6 20	19 46.99	−21 27.5	2.434	3.377	7.6	21.4
6 30	19 39.96	−21 43.9	2.375	3.369	4.4	21.2
7 10	19 31.91	−22 1.2	2.344	3.360	1.0	20.9
7 20	19 23.53	−22 17.3	2.342	3.351	2.5	21.0
7 30	19 15.61	−22 30.8	2.367	3.341	5.9	21.3
8 9	19 8.89	−22 40.8	2.420	3.332	8.9	21.4
8 19	19 3.90	−22 47.0	2.495	3.322	11.6	21.6

254416 2004 VK 7 12.9 289.°70 0.°4/13.1 18

6 10	19 51.01	−18 58.0	2.265	3.137	11.2	20.4
6 20	19 46.20	−19 24.7	2.174	3.119	8.3	20.1
6 30	19 39.62	−19 57.4	2.108	3.101	4.9	19.9
7 10	19 31.85	−20 33.7	2.069	3.084	1.2	19.6
7 20	19 23.62	−21 11.0	2.057	3.066	2.7	19.7
7 30	19 15.81	−21 46.5	2.073	3.049	6.4	19.9
8 9	19 9.23	−22 18.4	2.114	3.031	9.8	20.1
8 19	19 4.51	−22 45.4	2.179	3.014	12.8	20.2

491853 2013 AH_{107} 7 12.9 150.°55 1.°0/13.3 18

6 10	19 52.19	−17 30.0	2.292	3.159	11.3	22.0
6 20	19 46.85	−17 46.2	2.221	3.162	8.3	21.8
6 30	19 39.88	−18 8.3	2.174	3.165	5.0	21.6
7 10	19 31.89	−18 34.3	2.154	3.168	1.6	21.4
7 20	19 23.63	−19 2.0	2.162	3.171	2.6	21.5
7 30	19 15.92	−19 29.3	2.198	3.174	6.1	21.7
8 9	19 9.50	−19 54.5	2.260	3.176	9.3	21.9
8 19	19 4.90	−20 16.6	2.345	3.178	12.1	22.1

158354 2001 XU_{112} 7 12.9 197.°53 2.°8/13.9 18

6 10	19 54.75	−13 19.5	2.112	2.968	12.5	20.8
6 20	19 48.84	−13 16.6	2.034	2.965	9.5	20.6
6 30	19 41.11	−13 22.4	1.979	2.962	6.1	20.4
7 10	19 32.19	−13 36.1	1.950	2.958	3.2	20.2
7 20	19 22.91	−13 56.0	1.950	2.954	3.7	20.2
7 30	19 14.20	−14 20.2	1.976	2.949	6.9	20.4
8 9	19 6.89	−14 46.5	2.029	2.944	10.3	20.6
8 19	19 1.59	−15 13.2	2.105	2.938	13.3	20.8

440941 2006 YO_{33} 7 12.9 213.°96 1.°9/12.1 18

6 10	19 53.75	−27 19.3	2.557	3.428	10.1	22.0
6 20	19 47.97	−27 42.4	2.479	3.423	7.4	21.8
6 30	19 40.54	−28 4.5	2.426	3.417	4.5	21.6
7 10	19 32.06	−28 22.9	2.400	3.412	2.1	21.4
7 20	19 23.27	−28 35.1	2.403	3.406	3.3	21.5
7 30	19 15.01	−28 40.0	2.434	3.399	6.3	21.7
8 9	19 8.02	−28 37.5	2.491	3.393	9.1	21.8
8 19	19 2.86	−28 28.5	2.572	3.386	11.7	22.0

25495 Michaelroddy 7 12.9 219.°82 1.°3/12.4 18

6 10	19 53.96	−23 1.1	1.912	2.792	12.6	18.5
6 20	19 48.56	−23 42.3	1.842	2.791	9.2	18.3
6 30	19 41.06	−24 27.1	1.795	2.790	5.3	18.0
7 10	19 32.21	−25 11.6	1.774	2.789	1.6	17.8
7 20	19 22.94	−25 51.7	1.780	2.787	3.5	17.9
7 30	19 14.33	−26 24.5	1.814	2.786	7.4	18.2
8 9	19 7.35	−26 48.6	1.872	2.785	11.1	18.4
8 19	19 2.65	−27 4.2	1.951	2.783	14.2	18.6

319232 2006 AO_{23} 7 12.9 206.°53 1.°5/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 53.80	−27 1.4	2.644	3.513	9.9	21.8
6 20	19 47.90	−27 6.0	2.567	3.510	7.2	21.6
6 30	19 40.44	−27 9.1	2.515	3.507	4.3	21.4
7 10	19 32.04	−27 8.5	2.492	3.504	1.7	21.2
7 20	19 23.40	−27 2.7	2.496	3.501	2.9	21.3
7 30	19 15.32	−26 51.1	2.530	3.498	5.9	21.5
8 9	19 8.49	−26 34.1	2.589	3.494	8.7	21.7
8 19	19 3.41	−26 12.8	2.673	3.490	11.2	21.8

472809 2015 FP_{161} 7 12.9 359.°69 0.°1/12.9 17

6 10	19 53.04	−19 35.1	1.584	2.470	14.4	21.1
6 20	19 48.16	−20 7.6	1.517	2.469	10.6	20.8
6 30	19 40.94	−20 47.7	1.473	2.468	6.2	20.6
7 10	19 32.19	−21 31.6	1.453	2.468	1.4	20.3
7 20	19 22.99	−22 15.0	1.458	2.468	3.4	20.4
7 30	19 14.57	−22 54.0	1.490	2.469	8.0	20.7
8 9	19 8.02	−23 26.4	1.545	2.470	12.2	20.9
8 19	19 4.04	−23 51.4	1.621	2.471	15.8	21.2

57511 2001 ST_{280} 7 12.9 284.°52 1.°1/13.3 18

6 10	19 52.19	−17 45.3	2.037	2.909	12.3	19.5
6 20	19 47.12	−17 54.6	1.958	2.901	9.1	19.3
6 30	19 40.17	−18 10.2	1.902	2.894	5.5	19.0
7 10	19 32.00	−18 30.3	1.872	2.886	1.8	18.8
7 20	19 23.44	−18 52.7	1.869	2.878	2.9	18.9
7 30	19 15.44	−19 15.1	1.893	2.870	6.8	19.1
8 9	19 8.85	−19 36.0	1.943	2.863	10.4	19.3
8 19	19 4.31	−19 54.2	2.014	2.855	13.5	19.5

444446 2006 DH_{45} 7 12.9 188.°65 14.°3/21.4 17

6 10	19 56.24	+12 4.3	1.206	1.989	24.1	20.9
6 20	19 51.02	+11 58.6	1.139	1.989	21.3	20.7
6 30	19 42.86	+11 8.0	1.087	1.989	18.3	20.5
7 10	19 32.67	+ 9 27.1	1.052	1.989	15.7	20.4
7 20	19 21.78	+ 6 57.1	1.037	1.988	14.4	20.3
7 30	19 11.75	+ 3 47.6	1.045	1.987	15.1	20.3
8 9	19 4.01	+ 0 15.0	1.076	1.986	17.6	20.5
8 19	18 59.48	− 3 23.2	1.128	1.984	20.8	20.7

478391 2012 BN_{32} 7 12.9 132.°73 0.°5/12.6 18

6 10	19 51.83	−20 11.7	2.462	3.331	10.5	21.0
6 20	19 46.61	−21 9.8	2.390	3.334	7.6	20.9
6 30	19 39.78	−22 13.1	2.344	3.337	4.4	20.7
7 10	19 31.91	−23 18.1	2.325	3.341	1.0	20.4
7 20	19 23.72	−24 21.2	2.336	3.344	2.7	20.5
7 30	19 15.98	−25 18.9	2.375	3.347	6.0	20.8
8 9	19 9.43	−26 9.2	2.441	3.349	9.0	21.0
8 19	19 4.63	−26 51.3	2.531	3.352	11.6	21.2

302433 2002 DZ_{9} 7 12.9 96.°82 4.°4/10.5 18

6 10	19 55.66	−33 7.8	2.385	3.254	10.8	20.6
6 20	19 49.51	−34 18.8	2.334	3.271	8.2	20.5
6 30	19 41.49	−35 25.3	2.309	3.288	5.7	20.4
7 10	19 32.30	−36 22.3	2.311	3.305	4.4	20.3
7 20	19 22.84	−37 6.0	2.341	3.321	5.5	20.4
7 30	19 14.05	−37 34.4	2.398	3.338	7.8	20.6
8 9	19 6.79	−37 48.2	2.480	3.354	10.2	20.8
8 19	19 1.64	−37 49.3	2.583	3.369	12.4	20.9

231258 2005 YS_{199} 7 12.9 92.°78 1.°3/12.6 18

6 10	19 59.09	−26 3.4	1.771	2.649	13.5	19.8
6 20	19 52.17	−25 53.4	1.713	2.661	9.9	19.6
6 30	19 43.04	−25 41.6	1.679	2.673	5.8	19.4
7 10	19 32.65	−25 25.4	1.670	2.685	1.8	19.2
7 20	19 22.12	−25 3.6	1.689	2.696	3.5	19.3
7 30	19 12.62	−24 36.3	1.734	2.708	7.6	19.6
8 9	19 5.11	−24 4.9	1.805	2.719	11.3	19.9
8 19	19 0.16	−23 31.3	1.897	2.731	14.5	20.1

107534 2001 DR_{67} 7 12.9 219.°75 2.°8/13.9 18

6 10	19 55.69	−13 31.2	1.728	2.593	14.4	20.1
6 20	19 49.96	−13 39.8	1.650	2.586	10.9	19.8
6 30	19 41.98	−13 59.7	1.594	2.580	7.0	19.6
7 10	19 32.48	−14 29.5	1.563	2.573	3.3	19.3
7 20	19 22.46	−15 6.4	1.558	2.565	4.0	19.4
7 30	19 13.08	−15 47.2	1.581	2.557	7.9	19.6
8 9	19 5.40	−16 28.7	1.628	2.548	12.0	19.8
8 19	19 0.15	−17 8.4	1.696	2.539	15.5	20.0

437532 2013 YZ_{112} 7 12.9 271.°01 2.°7/11.7 18

6 10	19 56.07	−25 49.7	1.810	2.691	13.1	21.1
6 20	19 50.52	−26 45.2	1.722	2.671	9.7	20.8
6 30	19 42.47	−27 44.2	1.657	2.650	5.9	20.6
7 10	19 32.63	−28 41.2	1.617	2.629	2.8	20.3
7 20	19 22.01	−29 30.8	1.605	2.607	4.7	20.4
7 30	19 11.91	−30 8.7	1.619	2.586	8.7	20.6
8 9	19 3.53	−30 33.7	1.657	2.564	12.7	20.8
8 19	18 57.76	−30 46.4	1.716	2.541	16.1	21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
483216 2015 RF_{23}			7 12.9 221°.25		1°.0/13.3 18	
	h m	° ′			°	m
6 10	19 51.30	−17 57.9	2.546	3.410	10.4	21.7
6 20	19 46.13	−18 3.4	2.467	3.407	7.6	21.5
6 30	19 39.47	−18 13.6	2.412	3.403	4.6	21.3
7 10	19 31.87	−18 27.0	2.385	3.399	1.5	21.0
7 20	19 24.00	−18 42.0	2.386	3.395	2.5	21.1
7 30	19 16.59	−18 57.1	2.415	3.390	5.6	21.3
8 9	19 10.33	−19 11.3	2.471	3.386	8.6	21.5
8 19	19 5.71	−19 23.7	2.550	3.382	11.3	21.7
128961 2004 TY_{144}			7 12.9 275°.11		1°.7/13.6 18	
6 10	19 51.19	−16 5.0	2.428	3.291	10.9	20.1
6 20	19 46.18	−16 3.4	2.338	3.276	8.1	19.9
6 30	19 39.57	−16 7.7	2.273	3.261	5.1	19.7
7 10	19 31.92	−16 17.0	2.234	3.246	2.1	19.4
7 20	19 23.89	−16 29.8	2.223	3.230	2.9	19.5
7 30	19 16.29	−16 44.7	2.240	3.215	6.0	19.7
8 9	19 9.83	−17 0.3	2.283	3.199	9.2	19.8
8 19	19 5.08	−17 15.5	2.349	3.184	12.0	20.0
75974 2000 CC_{117}			7 12.9 86°.80		0°.2/12.8 18	R
6 10	19 53.76	−21 6.5	1.902	2.780	12.7	19.6
6 20	19 48.35	−21 27.3	1.833	2.781	9.3	19.4
6 30	19 40.93	−21 52.4	1.787	2.782	5.4	19.1
7 10	19 32.23	−22 18.8	1.768	2.783	1.2	18.8
7 20	19 23.18	−22 43.6	1.775	2.784	3.0	19.0
7 30	19 14.82	−23 4.4	1.809	2.785	7.1	19.2
8 9	19 8.07	−23 20.0	1.868	2.786	10.8	19.5
8 19	19 3.57	−23 30.3	1.949	2.787	14.0	19.7
433337 2013 RN_{40}			7 12.9 219°.30		0°.9/12.6 17	
6 10	19 56.93	−22 54.5	1.919	2.794	12.8	22.3
6 20	19 50.78	−23 19.8	1.840	2.787	9.4	22.1
6 30	19 42.42	−23 48.1	1.785	2.779	5.5	21.8
7 10	19 32.59	−24 15.9	1.755	2.770	1.5	21.5
7 20	19 22.28	−24 39.9	1.754	2.762	3.4	21.7
7 30	19 12.61	−24 57.7	1.779	2.752	7.5	21.9
8 9	19 4.61	−25 8.5	1.830	2.742	11.3	22.1
8 19	18 59.00	−25 12.7	1.902	2.732	14.6	22.3
83586 2001 SA_{241}			7 12.9 343°.09		1°.0/12.5 18	
6 10	19 52.91	−22 55.7	1.895	2.777	12.6	19.5
6 20	19 47.80	−23 23.4	1.825	2.775	9.2	19.2
6 30	19 40.64	−23 54.2	1.778	2.773	5.3	19.0
7 10	19 32.17	−24 24.9	1.756	2.771	1.5	18.7
7 20	19 23.32	−24 52.0	1.762	2.770	3.3	18.9
7 30	19 15.14	−25 13.1	1.794	2.768	7.3	19.1
8 9	19 8.57	−25 27.3	1.850	2.767	11.0	19.3
8 19	19 4.27	−25 34.7	1.928	2.766	14.1	19.5
206694 2003 YJ_{170}			7 12.9 46°.14		2°.4/12.2 18	
6 10	19 55.55	−27 34.6	1.838	2.720	12.9	20.3
6 20	19 49.75	−27 53.8	1.774	2.723	9.5	20.0
6 30	19 41.76	−28 11.4	1.733	2.726	5.7	19.8
7 10	19 32.42	−28 23.7	1.718	2.730	2.6	19.6
7 20	19 22.79	−28 27.8	1.729	2.733	4.1	19.7
7 30	19 14.01	−28 22.6	1.767	2.737	7.8	20.0
8 9	19 7.05	−28 8.8	1.829	2.741	11.4	20.2
8 19	19 2.53	−27 48.2	1.913	2.745	14.5	20.4
343957 2011 KQ_{33}			7 12.9 311°.81		0°.5/12.7 18	
6 10	19 53.72	−19 55.4	1.741	2.621	13.6	20.1
6 20	19 48.57	−20 45.3	1.670	2.620	9.9	19.8
6 30	19 41.18	−21 42.8	1.623	2.618	5.8	19.6
7 10	19 32.32	−22 43.5	1.601	2.617	1.3	19.3
7 20	19 22.98	−23 42.4	1.606	2.616	3.4	19.4
7 30	19 14.31	−24 35.3	1.638	2.614	7.7	19.7
8 9	19 7.35	−25 19.6	1.694	2.613	11.7	19.9
8 19	19 2.83	−25 54.4	1.772	2.612	15.1	20.2
303713 2005 PV_{21}			7 12.9 344°.87		3°.1/12.0 18	
6 10	19 53.90	−28 53.7	1.721	2.609	13.3	20.0
6 20	19 48.78	−29 13.8	1.652	2.603	9.9	19.8
6 30	19 41.31	−29 31.5	1.605	2.598	6.1	19.6
7 10	19 32.35	−29 42.5	1.583	2.593	3.2	19.4
7 20	19 22.98	−29 43.9	1.586	2.589	4.7	19.5
7 30	19 14.45	−29 34.2	1.615	2.585	8.4	19.7
8 9	19 7.82	−29 14.5	1.668	2.582	12.1	19.9
8 19	19 3.77	−28 47.0	1.741	2.580	15.4	20.1
199722 2006 HS_{85}			7 12.9 12°.01		1°.0/13.3 18	
6 10	19 53.38	−18 18.7	1.674	2.555	14.0	20.4
6 20	19 48.28	−18 31.0	1.607	2.555	10.3	20.1
6 30	19 40.97	−18 50.4	1.562	2.556	6.2	19.9
7 10	19 32.27	−19 14.6	1.542	2.557	1.8	19.6
7 20	19 23.19	−19 40.4	1.549	2.558	3.3	19.7
7 30	19 14.87	−20 5.4	1.581	2.560	7.6	20.0
8 9	19 8.32	−20 27.4	1.637	2.562	11.6	20.2
8 19	19 4.20	−20 45.6	1.714	2.564	15.1	20.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
497870 2006 UT_{195}			7 12.9 292°.31		5°.4/14.4 17	
	h m	° ′			°	m
6 10	19 53.58	− 9 54.0	1.444	2.313	16.5	21.5
6 20	19 48.82	− 9 31.2	1.365	2.299	13.0	21.2
6 30	19 41.51	− 9 23.4	1.305	2.284	9.1	21.0
7 10	19 32.44	− 9 31.5	1.268	2.270	5.9	20.8
7 20	19 22.70	− 9 54.5	1.256	2.256	6.1	20.7
7 30	19 13.60	−10 30.0	1.267	2.242	9.7	20.9
8 9	19 6.39	−11 13.8	1.301	2.228	13.9	21.1
8 19	19 1.92	−12 1.5	1.355	2.214	17.8	21.3
471580 2012 RX_{3}			7 12.9 281°.30		2°.5/13.8 18	
6 10	19 53.49	−14 23.6	1.815	2.683	13.7	21.5
6 20	19 48.43	−14 27.8	1.723	2.662	10.4	21.3
6 30	19 41.16	−14 42.2	1.653	2.640	6.6	21.0
7 10	19 32.35	−15 5.5	1.608	2.619	3.1	20.7
7 20	19 22.90	−15 35.6	1.589	2.597	3.8	20.7
7 30	19 13.91	−16 9.7	1.597	2.575	7.8	20.9
8 9	19 6.45	−16 45.1	1.630	2.552	11.8	21.1
8 19	19 1.29	−17 19.5	1.684	2.530	15.5	21.3
71191 1999 XX_{229}			7 12.9 174°.33		3°.2/11.8 18	
6 10	19 57.59	−30 40.5	2.245	3.114	11.4	19.5
6 20	19 50.97	−31 7.1	2.176	3.117	8.5	19.3
6 30	19 42.38	−31 30.1	2.131	3.118	5.4	19.2
7 10	19 32.58	−31 45.6	2.114	3.120	3.3	19.0
7 20	19 22.48	−31 51.0	2.124	3.121	4.4	19.1
7 30	19 13.12	−31 45.2	2.162	3.121	7.4	19.3
8 9	19 5.37	−31 29.2	2.226	3.121	10.4	19.5
8 19	18 59.82	−31 5.2	2.312	3.121	13.0	19.7
418379 2008 HK_{6}			7 12.9 112°.58		3°.6/11.7 17	
6 10	19 59.29	−29 2.7	1.668	2.549	14.0	21.5
6 20	19 52.65	−29 48.4	1.614	2.562	10.4	21.3
6 30	19 43.51	−30 31.8	1.583	2.574	6.5	21.1
7 10	19 32.84	−31 6.9	1.578	2.586	3.7	21.0
7 20	19 21.88	−31 29.5	1.598	2.597	5.3	21.1
7 30	19 11.96	−31 37.9	1.645	2.608	8.9	21.4
8 9	19 4.19	−31 33.0	1.716	2.619	12.4	21.6
8 19	18 59.24	−31 17.7	1.807	2.630	15.5	21.8
522830 2016 NR_{82}			7 12.9 326°.70		1°.3/12.4 17	
6 10	19 51.60	−22 16.4	1.416	2.314	15.1	20.5
6 20	19 47.59	−22 58.0	1.339	2.297	11.1	20.2
6 30	19 40.90	−23 46.7	1.283	2.281	6.5	19.9
7 10	19 32.31	−24 37.6	1.250	2.266	1.8	19.6
7 20	19 23.00	−25 25.2	1.242	2.251	4.2	19.7
7 30	19 14.39	−26 5.0	1.258	2.237	9.2	20.0
8 9	19 7.81	−26 34.4	1.297	2.224	13.8	20.2
8 19	19 4.15	−26 53.1	1.354	2.212	17.9	20.4
320380 2007 UR_{4}			7 12.9 202°.02		3°.2/11.7 18	
6 10	19 56.07	−29 54.2	2.109	2.985	11.8	20.7
6 20	19 50.02	−30 28.2	2.039	2.983	8.7	20.5
6 30	19 41.91	−30 59.6	1.992	2.981	5.6	20.3
7 10	19 32.49	−31 24.3	1.972	2.979	3.3	20.2
7 20	19 22.70	−31 38.8	1.979	2.976	4.6	20.2
7 30	19 13.62	−31 41.8	2.013	2.973	7.7	20.4
8 9	19 6.17	−31 33.9	2.072	2.970	10.8	20.6
8 19	19 1.00	−31 16.8	2.152	2.967	13.6	20.8
513318 2007 EB_{2}			7 12.9 227°.81		3°.4/11.5 18	
6 10	19 54.67	−32 1.7	2.531	3.400	10.3	21.7
6 20	19 48.75	−32 29.4	2.455	3.395	7.7	21.6
6 30	19 41.07	−32 53.2	2.404	3.389	5.1	21.4
7 10	19 32.29	−33 9.7	2.380	3.383	3.4	21.3
7 20	19 23.20	−33 16.4	2.384	3.376	4.4	21.3
7 30	19 14.68	−33 12.3	2.416	3.370	6.9	21.5
8 9	19 7.54	−32 58.0	2.473	3.363	9.6	21.6
8 19	19 2.35	−32 35.2	2.552	3.357	12.0	21.8
218534 2004 VW_{4}			7 12.9 311°.07		2°.9/13.6 17	
6 10	19 51.90	−15 3.9	1.998	2.866	12.6	20.6
6 20	19 47.06	−14 36.0	1.903	2.842	9.6	20.4
6 30	19 40.26	−14 14.4	1.832	2.818	6.2	20.1
7 10	19 32.14	−13 59.0	1.785	2.794	3.2	19.9
7 20	19 23.51	−13 49.5	1.766	2.771	3.9	19.9
7 30	19 15.34	−13 45.3	1.773	2.747	7.4	20.1
8 9	19 8.54	−13 45.4	1.804	2.724	11.0	20.2
8 19	19 3.80	−13 48.6	1.858	2.702	14.3	20.4
175591 2006 UU_{23}			7 12.9 120°.61		0°.7/12.7 17	
6 10	19 53.92	−23 0.9	2.225	3.098	11.3	20.8
6 20	19 48.20	−23 15.9	2.159	3.105	8.2	20.6
6 30	19 40.73	−23 32.6	2.118	3.112	4.8	20.4
7 10	19 32.22	−23 48.5	2.103	3.119	1.2	20.2
7 20	19 23.46	−24 1.5	2.117	3.125	2.8	20.3
7 30	19 15.36	−24 10.0	2.158	3.131	6.4	20.5
8 9	19 8.69	−24 13.7	2.225	3.138	9.6	20.7
8 19	19 3.99	−24 12.8	2.315	3.144	12.4	20.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
437357 2013 TF_{138}			7 12.9 170°.01		0°.6/13.1 17	
	h m	° ′			°	m
6 10	19 56.08	−19 34.1	1.976	2.846	12.7	22.0
6 20	19 49.96	−19 42.6	1.906	2.849	9.3	21.8
6 30	19 41.85	−19 55.8	1.859	2.852	5.5	21.6
7 10	19 32.49	−20 11.4	1.839	2.854	1.4	21.3
7 20	19 22.81	−20 27.0	1.846	2.855	2.9	21.4
7 30	19 13.83	−20 40.8	1.881	2.857	6.9	21.7
8 9	19 6.44	−20 51.7	1.941	2.857	10.6	21.9
8 19	19 1.27	−20 59.5	2.024	2.858	13.7	22.1
274090 2008 CJ_{52}			7 12.9 114°.71		0°.6/12.7 17	
6 10	19 56.54	−20 20.7	1.523	2.406	15.0	20.9
6 20	19 50.80	−21 6.4	1.462	2.413	11.0	20.6
6 30	19 42.55	−21 59.4	1.424	2.419	6.4	20.4
7 10	19 32.68	−22 54.7	1.410	2.425	1.5	20.1
7 20	19 22.37	−23 47.0	1.422	2.431	3.7	20.2
7 30	19 12.97	−24 32.0	1.460	2.437	8.4	20.5
8 9	19 5.61	−25 7.7	1.522	2.443	12.7	20.8
8 19	19 1.04	−25 33.8	1.605	2.448	16.2	21.0
236782 2007 PD_{16}			7 12.9 336°.00		2°.8/14.2 17	
6 10	19 50.63	−12 37.6	1.521	2.399	15.3	19.6
6 20	19 46.55	−13 8.7	1.446	2.390	11.6	19.3
6 30	19 40.14	−13 55.5	1.392	2.381	7.4	19.0
7 10	19 32.15	−14 55.6	1.362	2.373	3.4	18.8
7 20	19 23.59	−16 4.7	1.358	2.366	4.0	18.8
7 30	19 15.67	−17 17.2	1.378	2.359	8.3	19.0
8 9	19 9.51	−18 28.0	1.422	2.353	12.6	19.3
8 19	19 5.89	−19 33.2	1.487	2.348	16.3	19.5
509661 2008 GE_{138}			7 12.9 135°.44		0°.4/13.1 18	
6 10	19 51.59	−18 22.9	2.414	3.281	10.8	21.8
6 20	19 46.44	−18 58.8	2.343	3.285	7.9	21.6
6 30	19 39.72	−19 40.6	2.297	3.289	4.6	21.4
7 10	19 32.00	−20 25.4	2.278	3.293	1.2	21.1
7 20	19 24.00	−21 10.5	2.287	3.297	2.5	21.3
7 30	19 16.50	−21 53.2	2.325	3.300	5.8	21.5
8 9	19 10.20	−22 31.5	2.389	3.303	8.9	21.7
8 19	19 5.64	−23 4.3	2.477	3.307	11.6	21.9
379773 2011 HB_{29}			7 12.9 74°.28		1°.5/12.4 17	
6 10	19 55.92	−23 52.5	1.646	2.531	14.0	20.8
6 20	19 50.14	−24 26.7	1.592	2.543	10.2	20.6
6 30	19 42.05	−25 3.2	1.559	2.555	5.9	20.4
7 10	19 32.55	−25 37.6	1.552	2.567	1.9	20.1
7 20	19 22.77	−26 6.0	1.571	2.579	3.8	20.3
7 30	19 13.93	−26 26.0	1.617	2.591	8.0	20.6
8 9	19 7.05	−26 37.0	1.686	2.603	11.9	20.8
8 19	19 2.76	−26 39.9	1.776	2.614	15.1	21.1
137693 1999 XG_{63}			7 12.9 258°.56		1°.0/12.6 18	
6 10	19 56.98	−22 29.3	1.685	2.565	14.0	21.3
6 20	19 51.23	−22 58.7	1.600	2.549	10.3	21.0
6 30	19 42.92	−23 32.9	1.537	2.532	6.1	20.7
7 10	19 32.82	−24 7.8	1.499	2.515	1.6	20.4
7 20	19 22.02	−24 39.2	1.488	2.497	3.7	20.5
7 30	19 11.82	−25 3.8	1.504	2.479	8.4	20.7
8 9	19 3.47	−25 20.3	1.543	2.460	12.7	20.9
8 19	18 57.81	−25 28.9	1.603	2.441	16.5	21.1
72633 Randygroth			7 12.9 266°.28		1°.0/13.3 18	
6 10	19 53.80	−18 24.2	1.897	2.771	12.9	19.5
6 20	19 48.48	−18 32.0	1.818	2.762	9.6	19.2
6 30	19 41.10	−18 46.0	1.761	2.754	5.7	19.0
7 10	19 32.37	−19 4.1	1.730	2.745	1.7	18.7
7 20	19 23.19	−19 24.0	1.726	2.736	3.1	18.8
7 30	19 14.61	−19 43.5	1.749	2.727	7.2	19.0
8 9	19 7.59	−20 0.9	1.797	2.718	11.0	19.2
8 19	19 2.80	−20 15.3	1.867	2.709	14.3	19.4
202912 1997 MK_8			7 12.9 41°.52		1°.7/13.6 18	
6 10	19 52.73	−15 55.1	1.797	2.671	13.6	20.2
6 20	19 47.67	−16 9.3	1.731	2.674	10.1	20.0
6 30	19 40.59	−16 32.5	1.687	2.678	6.2	19.8
7 10	19 32.24	−17 2.4	1.669	2.682	2.4	19.5
7 20	19 23.55	−17 36.2	1.677	2.685	3.3	19.6
7 30	19 15.56	−18 10.9	1.711	2.689	7.2	19.8
8 9	19 9.19	−18 44.1	1.770	2.693	11.0	20.1
8 19	19 5.05	−19 14.1	1.851	2.698	14.2	20.3
385 Ilmatar			7 12.9 100°.66		5°.8/11.3 18	R
6 10	20 0.37	−38 9.6	2.060	2.923	12.5	12.1
6 20	19 53.16	−38 41.0	2.006	2.934	9.8	12.0
6 30	19 43.70	−39 2.3	1.976	2.946	7.2	11.8
7 10	19 32.93	−39 8.8	1.971	2.958	5.8	11.8
7 20	19 22.01	−38 57.8	1.993	2.969	6.7	11.9
7 30	19 12.13	−38 29.6	2.042	2.980	9.0	12.0
8 9	19 4.29	−37 47.1	2.114	2.991	11.6	12.2
8 19	18 59.06	−36 54.5	2.208	3.002	14.0	12.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
181843 1998 TK_{20}			7 12.9 274°.69		1°.2/13.4 18	
	h m	° ′			°	m
6 10	19 53.82	−17 48.5	2.003	2.873	12.5	20.9
6 20	19 48.51	−17 53.1	1.911	2.854	9.3	20.7
6 30	19 41.15	−18 3.9	1.843	2.834	5.7	20.4
7 10	19 32.40	−18 19.4	1.800	2.814	1.9	20.2
7 20	19 23.11	−18 37.3	1.784	2.793	3.1	20.2
7 30	19 14.28	−18 55.7	1.796	2.773	7.1	20.4
8 9	19 6.89	−19 12.9	1.833	2.752	10.9	20.6
8 19	19 1.64	−19 28.0	1.892	2.731	14.3	20.8
249678 1999 VC_{211}			7 12.9 194°.73		0°.1/13.0 18	
6 10	19 51.61	−20 15.5	2.798	3.663	9.5	21.7
6 20	19 46.29	−20 32.4	2.719	3.661	7.0	21.5
6 30	19 39.58	−20 52.6	2.666	3.658	4.1	21.3
7 10	19 32.00	−21 14.2	2.640	3.656	1.0	21.1
7 20	19 24.16	−21 35.2	2.644	3.653	2.2	21.2
7 30	19 16.74	−21 54.3	2.676	3.650	5.3	21.4
8 9	19 10.38	−22 10.3	2.735	3.646	8.1	21.6
8 19	19 5.56	−22 22.9	2.818	3.642	10.5	21.7
174017 2001 YJ_{93}			7 12.9 192°.88		0°.3/13.1 18	
6 10	19 53.32	−20 15.4	2.239	3.109	11.4	20.8
6 20	19 47.81	−20 25.2	2.165	3.109	8.3	20.6
6 30	19 40.57	−20 38.9	2.115	3.108	4.9	20.4
7 10	19 32.25	−20 54.2	2.091	3.107	1.2	20.1
7 20	19 23.62	−21 9.2	2.096	3.105	2.6	20.2
7 30	19 15.56	−21 22.2	2.128	3.104	6.3	20.5
8 9	19 8.86	−21 32.2	2.187	3.102	9.6	20.7
8 19	19 4.09	−21 39.0	2.268	3.101	12.5	20.9
488286 2016 UN_9			7 12.9 322°.77		3°.1/13.2 18	
6 10	19 55.94	−18 2.6	1.525	2.406	15.1	19.7
6 20	19 50.45	−16 58.0	1.442	2.389	11.4	19.4
6 30	19 42.42	−15 55.4	1.382	2.372	7.2	19.1
7 10	19 32.72	−14 56.0	1.345	2.356	3.5	18.8
7 20	19 22.46	−14 1.4	1.334	2.340	4.7	18.9
7 30	19 12.97	−13 13.5	1.349	2.326	9.0	19.1
8 9	19 5.44	−12 33.3	1.387	2.311	13.4	19.3
8 19	19 0.64	−12 1.0	1.445	2.298	17.2	19.5
471085 2009 XW_{22}			7 12.9 295°.14		0°.1/12.9 18	
6 10	19 57.60	−23 14.1	1.681	2.561	14.0	20.9
6 20	19 51.42	−22 51.2	1.607	2.555	10.3	20.6
6 30	19 42.86	−22 28.5	1.555	2.550	6.0	20.4
7 10	19 32.79	−22 4.1	1.529	2.545	1.4	20.0
7 20	19 22.34	−21 37.1	1.530	2.539	3.4	20.2
7 30	19 12.77	−21 7.7	1.556	2.534	7.9	20.4
8 9	19 5.13	−20 36.8	1.608	2.529	12.1	20.7
8 19	19 0.12	−20 5.7	1.680	2.524	15.6	20.9
186313 2002 CY_{216}			7 12.9 233°.76		0°.8/12.5 18	
6 10	19 53.07	−23 23.0	2.775	3.641	9.6	21.6
6 20	19 47.47	−23 46.8	2.685	3.627	7.0	21.4
6 30	19 40.34	−24 12.3	2.620	3.613	4.1	21.2
7 10	19 32.20	−24 37.2	2.584	3.599	1.2	20.9
7 20	19 23.70	−24 59.3	2.577	3.584	2.6	21.0
7 30	19 15.59	−25 16.9	2.599	3.569	5.6	21.2
8 9	19 8.56	−25 29.3	2.647	3.553	8.5	21.4
8 19	19 3.15	−25 36.4	2.720	3.537	11.1	21.5
473066 2015 HC_{94}			7 12.9 306°.54		2°.3/13.8 17	
6 10	19 52.54	−14 34.2	1.708	2.582	14.2	20.3
6 20	19 47.73	−14 46.5	1.632	2.574	10.7	20.1
6 30	19 40.74	−15 9.7	1.578	2.567	6.7	19.8
7 10	19 32.32	−15 42.0	1.548	2.560	2.9	19.6
7 20	19 23.41	−16 20.5	1.545	2.553	3.7	19.6
7 30	19 15.13	−17 1.8	1.567	2.546	7.7	19.9
8 9	19 8.49	−17 42.9	1.614	2.540	11.7	20.1
8 19	19 4.21	−18 21.2	1.682	2.533	15.2	20.3
51674 2001 KE_7			7 12.9 341°.24		3°.4/11.6 18	
6 10	19 54.54	−25 41.1	1.336	2.234	15.7	18.4
6 20	19 49.89	−26 48.4	1.272	2.229	11.6	18.2
6 30	19 42.30	−27 59.9	1.229	2.225	7.0	17.9
7 10	19 32.72	−29 8.1	1.209	2.221	3.5	17.7
7 20	19 22.46	−30 5.7	1.214	2.218	5.6	17.8
7 30	19 13.12	−30 47.6	1.244	2.215	10.2	18.1
8 9	19 6.10	−31 12.7	1.294	2.212	14.6	18.3
8 19	19 2.29	−31 22.6	1.364	2.211	18.4	18.5
233690 2008 SZ_5			7 12.9 204°.67		5°.4/15.5 18	
6 10	19 52.84	− 4 42.5	2.157	2.985	13.3	20.8
6 20	19 47.50	− 4 40.7	2.077	2.981	10.7	20.6
6 30	19 40.43	− 4 54.0	2.019	2.977	8.0	20.5
7 10	19 32.24	− 5 22.7	1.986	2.973	5.8	20.3
7 20	19 23.68	− 6 5.2	1.981	2.968	5.7	20.3
7 30	19 15.60	− 6 59.0	2.002	2.963	7.7	20.4
8 9	19 8.79	− 8 0.0	2.049	2.957	10.5	20.6
8 19	19 3.85	− 9 4.4	2.118	2.951	13.2	20.7

290223 2005 SS_{54} 7 12.9 15°.56 5°.2/15.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 50.66	− 6 47.1	2.064	2.907	13.3	21.1
6 20	19 45.92	− 6 28.9	1.993	2.908	10.5	20.9
6 30	19 39.49	− 6 24.0	1.944	2.909	7.7	20.7
7 10	19 32.01	− 6 32.9	1.920	2.910	5.5	20.6
7 20	19 24.24	− 6 54.7	1.922	2.912	5.5	20.6
7 30	19 17.02	− 7 27.3	1.950	2.914	7.7	20.7
8 9	19 11.12	− 8 7.6	2.003	2.916	10.5	20.9
8 19	19 7.09	− 8 52.2	2.078	2.918	13.2	21.1

386418 2008 UD_{345} 7 12.9 241°.33 0°.1/12.9 16

6 10	19 54.97	−21 9.7	1.919	2.794	12.7	21.7
6 20	19 49.32	−21 19.5	1.842	2.789	9.3	21.5
6 30	19 41.59	−21 33.0	1.788	2.783	5.5	21.2
7 10	19 32.52	−21 47.7	1.761	2.776	1.3	20.9
7 20	19 23.03	−22 1.1	1.761	2.770	3.0	21.0
7 30	19 14.19	−22 11.5	1.787	2.764	7.2	21.3
8 9	19 6.96	−22 17.8	1.839	2.757	11.0	21.5
8 19	19 2.01	−22 20.2	1.912	2.750	14.2	21.7

183485 2003 DY_{18} 7 12.9 135°.15 5°.1/11.3 18

6 10	19 58.05	−36 22.6	2.162	3.028	11.9	20.2
6 20	19 51.48	−36 49.9	2.097	3.030	9.2	20.0
6 30	19 42.77	−37 9.2	2.056	3.032	6.6	19.9
7 10	19 32.77	−37 16.1	2.041	3.034	5.1	19.8
7 20	19 22.51	−37 7.9	2.053	3.035	6.0	19.8
7 30	19 13.12	−36 44.3	2.092	3.037	8.4	20.0
8 9	19 5.53	−36 7.5	2.155	3.039	11.1	20.2
8 19	19 0.36	−35 21.1	2.239	3.040	13.6	20.4

376890 2001 XA_{95} 7 12.9 219°.17 1°.6/12.3 18

6 10	19 57.12	−24 58.5	2.283	3.151	11.3	22.3
6 20	19 50.74	−25 32.3	2.198	3.141	8.3	22.1
6 30	19 42.39	−26 7.5	2.137	3.130	4.9	21.8
7 10	19 32.73	−26 40.6	2.104	3.118	1.8	21.6
7 20	19 22.58	−27 8.2	2.100	3.105	3.4	21.7
7 30	19 12.95	−27 28.1	2.124	3.091	6.9	21.9
8 9	19 4.73	−27 39.7	2.174	3.077	10.2	22.1
8 19	18 58.61	−27 43.8	2.247	3.062	13.1	22.3

300712 2007 VV_{114} 7 12.9 130°.74 1°.3/13.5 16

6 10	19 53.19	−17 8.7	2.106	2.974	12.1	20.8
6 20	19 47.76	−17 16.6	2.037	2.978	8.9	20.6
6 30	19 40.57	−17 30.9	1.992	2.982	5.4	20.4
7 10	19 32.28	−17 49.7	1.973	2.986	1.9	20.2
7 20	19 23.71	−18 10.9	1.981	2.990	2.9	20.3
7 30	19 15.75	−18 32.6	2.017	2.994	6.5	20.5
8 9	19 9.21	−18 53.0	2.078	2.997	9.9	20.7
8 19	19 4.64	−19 11.2	2.163	3.001	12.8	20.9

85311 1994 WK_{8} 7 12.9 115°.29 0°.5/13.2 18

6 10	19 53.96	−18 13.2	2.000	2.871	12.5	19.5
6 20	19 48.42	−18 47.4	1.936	2.879	9.2	19.3
6 30	19 40.99	−19 28.4	1.895	2.888	5.4	19.1
7 10	19 32.38	−20 13.1	1.881	2.896	1.4	18.9
7 20	19 23.47	−20 57.9	1.894	2.904	2.8	19.0
7 30	19 15.22	−21 39.8	1.936	2.912	6.7	19.3
8 9	19 8.48	−22 16.7	2.002	2.920	10.2	19.5
8 19	19 3.85	−22 47.5	2.091	2.927	13.2	19.7

289350 2005 BM_{16} 7 12.9 170°.52 0°.6/12.6 17

6 10	19 55.04	−21 38.6	2.479	3.344	10.6	22.2
6 20	19 48.97	−22 19.0	2.407	3.348	7.7	22.0
6 30	19 41.23	−23 2.8	2.359	3.352	4.5	21.8
7 10	19 32.44	−23 46.8	2.340	3.355	1.1	21.5
7 20	19 23.32	−24 28.1	2.350	3.357	2.7	21.7
7 30	19 14.72	−25 4.1	2.389	3.359	6.0	21.9
8 9	19 7.39	−25 33.5	2.454	3.360	9.1	22.1
8 19	19 1.88	−25 56.2	2.543	3.361	11.7	22.3

366308 2013 CV_{109} 7 12.9 340°.68 0°.8/13.3 18

6 10	19 51.19	−17 2.9	1.942	2.816	12.7	20.1
6 20	19 46.56	−17 42.4	1.867	2.813	9.3	19.9
6 30	19 40.00	−18 30.9	1.816	2.809	5.6	19.7
7 10	19 32.18	−19 25.3	1.791	2.806	1.6	19.4
7 20	19 23.93	−20 21.6	1.793	2.803	2.9	19.5
7 30	19 16.25	−21 16.1	1.822	2.800	6.9	19.8
8 9	19 10.01	−22 5.8	1.876	2.798	10.6	20.0
8 19	19 5.87	−22 48.9	1.952	2.796	13.8	20.2

468616 2008 DL_{46} 7 12.9 72°.72 2°.6/12.1 17

6 10	19 57.76	−25 38.1	1.430	2.320	15.4	21.3
6 20	19 51.80	−26 22.4	1.380	2.334	11.2	21.0
6 30	19 43.17	−27 7.8	1.352	2.347	6.7	20.8
7 10	19 32.90	−27 48.5	1.347	2.360	2.8	20.6
7 20	19 22.33	−28 19.5	1.368	2.374	4.8	20.8
7 30	19 12.89	−28 38.1	1.415	2.387	9.1	21.1
8 9	19 5.76	−28 44.6	1.484	2.400	13.2	21.3
8 19	19 1.62	−28 40.8	1.573	2.414	16.6	21.6

136172 2003 US_{123} 7 12.9 354°.63 7°.6/15.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 50.69	− 5 42.9	1.458	2.317	16.9	19.7
6 20	19 46.53	− 4 52.6	1.392	2.313	13.7	19.5
6 30	19 40.10	− 4 19.8	1.345	2.310	10.4	19.3
7 10	19 32.21	− 4 7.2	1.321	2.308	8.0	19.2
7 20	19 23.89	− 4 15.2	1.319	2.306	8.0	19.2
7 30	19 16.31	− 4 41.7	1.341	2.305	10.4	19.3
8 9	19 10.53	− 5 22.6	1.385	2.305	13.7	19.5
8 19	19 7.24	− 6 12.5	1.449	2.306	16.9	19.7

519808 2013 HP_{58} 7 12.9 297°.03 3°.9/11.5 18

6 10	19 54.60	−32 45.4	2.268	3.141	11.1	21.5
6 20	19 48.94	−33 14.1	2.193	3.133	8.4	21.3
6 30	19 41.33	−33 38.2	2.142	3.126	5.7	21.1
7 10	19 32.48	−33 53.9	2.117	3.118	3.9	21.0
7 20	19 23.27	−33 58.3	2.119	3.111	5.0	21.0
7 30	19 14.71	−33 50.3	2.149	3.104	7.7	21.2
8 9	19 7.69	−33 30.8	2.203	3.096	10.5	21.3
8 19	19 2.82	−33 2.2	2.279	3.089	13.1	21.5

468636 2008 SJ_{92} 7 12.9 152°.19 8°.7/16.9 18

6 10	19 52.76	+ 3 14.2	2.082	2.873	14.9	21.0
6 20	19 47.42	+ 3 52.3	2.014	2.878	12.7	20.9
6 30	19 40.37	+ 4 10.8	1.966	2.883	10.6	20.7
7 10	19 32.25	+ 4 7.6	1.942	2.887	9.1	20.7
7 20	19 23.83	+ 3 42.6	1.942	2.891	8.8	20.6
7 30	19 15.98	+ 2 57.9	1.967	2.894	9.9	20.7
8 9	19 9.47	+ 1 57.8	2.015	2.897	11.9	20.9
8 19	19 4.85	+ 0 47.4	2.086	2.900	14.0	21.0

55022 2001 QQ_{38} 7 12.9 255°.90 1°.6/12.4 18

6 10	19 57.10	−24 23.2	1.768	2.648	13.5	19.5
6 20	19 51.24	−24 50.1	1.684	2.633	9.9	19.3
6 30	19 42.91	−25 19.5	1.623	2.618	5.9	19.0
7 10	19 32.90	−25 47.2	1.588	2.602	1.9	18.7
7 20	19 22.25	−26 9.4	1.579	2.586	3.9	18.8
7 30	19 12.23	−26 23.4	1.597	2.570	8.2	19.0
8 9	19 4.02	−26 28.6	1.639	2.553	12.3	19.2
8 19	18 58.42	−26 26.1	1.702	2.536	15.9	19.4

31625 1999 GR_{20} 7 12.9 4°.45 7°.8/10.1 18

6 10	19 56.93	−36 20.2	1.409	2.299	15.6	17.5
6 20	19 51.76	−37 40.5	1.354	2.298	12.3	17.3
6 30	19 43.44	−38 52.7	1.321	2.298	9.2	17.1
7 10	19 33.03	−39 47.6	1.310	2.299	7.8	17.0
7 20	19 22.04	−40 18.4	1.323	2.300	9.1	17.1
7 30	19 12.20	−40 22.8	1.359	2.302	12.2	17.3
8 9	19 4.96	−40 3.7	1.416	2.305	15.5	17.5
8 19	19 1.16	−39 26.4	1.490	2.308	18.5	17.7

7437 Torricelli 7 12.9 246°.08 1°.2/13.4 18 R

6 10	19 55.50	−16 45.8	1.592	2.469	14.8	18.0
6 20	19 50.12	−17 14.5	1.515	2.461	11.0	17.7
6 30	19 42.28	−17 53.8	1.461	2.453	6.7	17.5
7 10	19 32.76	−18 40.5	1.431	2.445	2.1	17.2
7 20	19 22.64	−19 30.4	1.427	2.437	3.5	17.2
7 30	19 13.18	−20 19.1	1.449	2.428	8.2	17.5
8 9	19 5.58	−21 3.6	1.496	2.420	12.6	17.7
8 19	19 0.62	−21 41.8	1.563	2.411	16.4	18.0

503500 2016 EJ_{199} 7 12.9 86°.82 3°.4/12.1 17

6 10	20 0.82	−28 2.7	1.359	2.248	16.1	21.3
6 20	19 54.14	−28 37.1	1.311	2.263	11.8	21.1
6 30	19 44.55	−29 9.4	1.284	2.278	7.2	20.9
7 10	19 33.24	−29 33.3	1.282	2.293	3.6	20.7
7 20	19 21.69	−29 44.6	1.304	2.307	5.4	20.8
7 30	19 11.48	−29 41.9	1.352	2.322	9.7	21.1
8 9	19 3.85	−29 27.0	1.421	2.336	13.8	21.4
8 19	18 59.45	−29 3.2	1.511	2.350	17.3	21.7

48362 2184 $T\text{-}_{2}$ 7 12.9 342°.90 3°.0/12.2 18

6 10	19 49.94	−25 37.3	1.012	1.930	17.8	18.7
6 20	19 47.18	−26 9.4	0.947	1.915	13.2	18.4
6 30	19 41.04	−26 44.8	0.901	1.901	8.0	18.0
7 10	19 32.53	−27 17.2	0.875	1.889	3.3	17.7
7 20	19 23.21	−27 40.4	0.871	1.879	5.7	17.8
7 30	19 14.96	−27 50.2	0.887	1.870	11.3	18.1
8 9	19 9.45	−27 46.3	0.922	1.863	16.6	18.4
8 19	19 7.65	−27 30.4	0.974	1.858	21.1	18.6

404860 2014 KO_{20} 7 12.9 323°.42 1°.2/12.3 18

6 10	19 51.48	−21 13.5	1.935	2.817	12.4	20.5
6 20	19 46.94	−22 18.1	1.855	2.806	9.1	20.3
6 30	19 40.33	−23 30.0	1.799	2.795	5.3	20.0
7 10	19 32.31	−24 44.5	1.769	2.784	1.5	19.8
7 20	19 23.74	−25 56.4	1.767	2.774	3.5	19.9
7 30	19 15.65	−27 1.1	1.792	2.765	7.5	20.1
8 9	19 9.04	−27 55.6	1.841	2.755	11.2	20.3
8 19	19 4.63	−28 38.9	1.912	2.747	14.4	20.5

313962 2004 RT_{312} 7 12.9 209°.46 5°.5/10.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	20 0.66	−43 28.8	3.166	3.998	9.4	21.4
6 20	19 52.93	−43 49.7	3.090	3.991	7.7	21.3
6 30	19 43.47	−44 0.5	3.039	3.984	6.2	21.2
7 10	19 32.98	−43 57.7	3.015	3.976	5.5	21.1
7 20	19 22.30	−43 39.5	3.020	3.968	6.0	21.2
7 30	19 12.31	−43 5.8	3.051	3.960	7.5	21.3
8 9	19 3.80	−42 18.8	3.109	3.951	9.2	21.4
8 19	18 57.29	−41 21.6	3.190	3.942	11.0	21.5

150079 2006 TM_{71} 7 12.9 263°.35 0°.8/13.2 18

6 10	19 56.86	−19 29.4	1.657	2.535	14.3	20.9
6 20	19 51.14	−19 32.4	1.571	2.518	10.6	20.7
6 30	19 42.90	−19 41.2	1.507	2.501	6.4	20.4
7 10	19 32.93	−19 53.4	1.468	2.483	1.7	20.0
7 20	19 22.29	−20 6.3	1.455	2.465	3.5	20.1
7 30	19 12.27	−20 17.9	1.469	2.447	8.2	20.4
8 9	19 4.08	−20 26.8	1.506	2.428	12.7	20.6
8 19	18 58.54	−20 32.6	1.565	2.409	16.5	20.8

321946 2010 TD_{162} 7 12.9 284°.89 1°.9/12.1 18

6 10	19 52.59	−25 30.7	2.252	3.129	11.1	20.8
6 20	19 47.51	−26 9.6	2.169	3.116	8.1	20.6
6 30	19 40.55	−26 50.2	2.109	3.102	4.8	20.4
7 10	19 32.35	−27 28.8	2.076	3.089	2.0	20.2
7 20	19 23.70	−28 2.1	2.071	3.075	3.5	20.3
7 30	19 15.51	−28 27.6	2.094	3.062	6.9	20.4
8 9	19 8.68	−28 44.3	2.141	3.048	10.2	20.6
8 19	19 3.83	−28 52.6	2.211	3.035	13.0	20.8

450013 2015 PY_{308} 7 12.9 331°.60 9°.4/16.9 18

6 10	19 48.62	+ 2 52.0	1.847	2.656	15.9	20.4
6 20	19 44.74	+ 3 27.0	1.767	2.643	13.7	20.2
6 30	19 38.99	+ 3 40.5	1.706	2.631	11.4	20.1
7 10	19 31.99	+ 3 29.7	1.667	2.619	9.8	19.9
7 20	19 24.55	+ 2 54.1	1.651	2.608	9.5	19.9
7 30	19 17.58	+ 1 55.8	1.659	2.597	10.7	19.9
8 9	19 11.98	+ 0 39.7	1.690	2.587	12.9	20.1
8 19	19 8.39	− 0 47.8	1.741	2.578	15.4	20.2

342769 2008 WS_{98} 7 12.9 292°.54 0°.4/12.9 18

6 10	19 54.99	−22 26.5	1.721	2.603	13.6	20.3
6 20	19 49.63	−22 32.8	1.641	2.592	10.0	20.1
6 30	19 41.94	−22 42.0	1.584	2.580	5.9	19.8
7 10	19 32.69	−22 51.3	1.553	2.568	1.4	19.5
7 20	19 22.93	−22 58.1	1.547	2.556	3.4	19.6
7 30	19 13.85	−23 0.7	1.568	2.545	7.9	19.9
8 9	19 6.57	−22 58.5	1.612	2.534	12.0	20.1
8 19	19 1.80	−22 52.1	1.678	2.522	15.6	20.3

503922 2002 UF_4 7 12.9 306°.50 8°.3/12.0 18

6 10	20 1.21	−11 27.5	1.370	2.234	17.5	20.1
6 20	19 54.87	− 9 13.0	1.272	2.201	14.2	19.8
6 30	19 45.40	− 6 57.9	1.196	2.167	10.6	19.5
7 10	19 33.59	− 4 48.7	1.144	2.134	8.4	19.3
7 20	19 20.68	− 2 52.9	1.117	2.101	9.5	19.3
7 30	19 8.29	− 1 17.9	1.116	2.069	13.3	19.4
8 9	18 57.97	− 0 6.8	1.137	2.036	17.7	19.5
8 19	18 50.84	+ 0 40.6	1.175	2.005	21.8	19.7

261190 2005 TT_{144} 7 12.9 158°.27 7°.5/17.7 18

6 10	19 50.16	+ 7 6.8	2.993	3.741	11.8	21.8
6 20	19 45.12	+ 7 34.1	2.921	3.747	10.3	21.7
6 30	19 38.89	+ 7 45.3	2.871	3.753	8.8	21.6
7 10	19 31.94	+ 7 39.2	2.844	3.759	7.8	21.5
7 20	19 24.79	+ 7 15.8	2.843	3.764	7.5	21.5
7 30	19 18.03	+ 6 36.5	2.868	3.768	8.2	21.5
8 9	19 12.17	+ 5 44.0	2.917	3.772	9.4	21.6
8 19	19 7.65	+ 4 42.0	2.990	3.776	10.9	21.7

158463 2002 CP_{214} 7 12.9 351°.62 1°.8/12.4 18

6 10	19 54.55	−24 25.4	1.536	2.427	14.5	19.7
6 20	19 49.49	−24 55.3	1.470	2.425	10.6	19.4
6 30	19 41.91	−25 27.8	1.427	2.423	6.3	19.2
7 10	19 32.69	−25 58.3	1.407	2.421	2.1	18.9
7 20	19 23.01	−26 22.7	1.413	2.420	4.1	19.0
7 30	19 14.19	−26 38.4	1.444	2.419	8.6	19.3
8 9	19 7.40	−26 44.6	1.498	2.419	12.8	19.5
8 19	19 3.36	−26 42.5	1.572	2.419	16.3	19.8

178428 1998 SS_{151} 7 12.9 294°.20 2°.2/12.2 18

6 10	19 55.53	−24 29.3	1.471	2.363	15.0	19.8
6 20	19 50.49	−25 12.3	1.396	2.350	11.1	19.6
6 30	19 42.67	−25 59.6	1.342	2.338	6.6	19.3
7 10	19 32.91	−26 45.5	1.312	2.326	2.5	19.0
7 20	19 22.43	−27 24.6	1.307	2.314	4.6	19.1
7 30	19 12.71	−27 52.9	1.327	2.302	9.3	19.3
8 9	19 5.10	−28 9.2	1.370	2.290	13.8	19.6
8 19	19 0.48	−28 14.4	1.432	2.278	17.7	19.8

253153 2002 VM_{94} 7 12.9 154°.63 0°.3/13.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 57.70	−20 32.8	1.875	2.747	13.2	20.7
6 20	19 51.24	−20 37.6	1.809	2.753	9.7	20.5
6 30	19 42.69	−20 46.1	1.766	2.759	5.7	20.3
7 10	19 32.85	−20 56.0	1.749	2.764	1.4	20.0
7 20	19 22.70	−21 4.9	1.759	2.769	3.0	20.1
7 30	19 13.35	−21 11.4	1.797	2.773	7.2	20.4
8 9	19 5.73	−21 14.8	1.860	2.777	10.9	20.6
8 19	19 0.47	−21 15.2	1.945	2.780	14.1	20.9

511473 2014 KY_{98} 7 12.9 39°.51 2°.3/13.7 18

6 10	19 53.02	−16 3.9	1.978	2.847	12.7	21.1
6 20	19 47.69	−15 44.0	1.912	2.852	9.5	20.9
6 30	19 40.56	−15 30.5	1.870	2.858	5.9	20.7
7 10	19 32.34	−15 22.8	1.853	2.864	2.7	20.5
7 20	19 23.89	−15 19.9	1.864	2.870	3.4	20.6
7 30	19 16.12	−15 20.7	1.901	2.877	6.8	20.8
8 9	19 9.85	−15 24.1	1.963	2.884	10.2	21.0
8 19	19 5.63	−15 28.9	2.048	2.890	13.2	21.2

20610 1999 RK_{235} 7 12.9 140°.87 2°.8/14.3 18 R

6 10	19 53.42	−12 2.1	1.912	2.771	13.5	18.4
6 20	19 48.12	−12 24.8	1.842	2.775	10.2	18.2
6 30	19 40.89	−12 59.6	1.795	2.779	6.6	18.0
7 10	19 32.44	−13 44.5	1.774	2.782	3.3	17.8
7 20	19 23.63	−14 36.5	1.779	2.785	3.7	17.8
7 30	19 15.44	−15 31.9	1.812	2.788	7.1	18.0
8 9	19 8.74	−16 27.0	1.870	2.791	10.6	18.3
8 19	19 4.16	−17 19.2	1.951	2.794	13.8	18.5

35626 1998 KD_9 7 12.9 96°.87 5°.0/15.4 18

6 10	19 53.79	− 6 19.0	1.863	2.704	14.6	18.7
6 20	19 48.28	− 6 27.4	1.804	2.719	11.4	18.6
6 30	19 40.92	− 6 52.1	1.767	2.734	8.2	18.4
7 10	19 32.43	− 7 32.1	1.755	2.749	5.5	18.3
7 20	19 23.70	− 8 24.7	1.769	2.764	5.4	18.3
7 30	19 15.69	− 9 26.2	1.810	2.778	7.8	18.5
8 9	19 9.22	−10 32.0	1.876	2.792	10.9	18.7
8 19	19 4.85	−11 38.0	1.965	2.806	13.8	18.9

263998 2009 OZ_3 7 12.9 355°.72 1°.9/13.9 18

6 10	19 49.46	−13 58.1	1.739	2.615	13.8	19.5
6 20	19 45.47	−14 36.1	1.667	2.611	10.4	19.3
6 30	19 39.46	−15 26.9	1.618	2.608	6.4	19.0
7 10	19 32.13	−16 27.6	1.594	2.606	2.6	18.8
7 20	19 24.36	−17 34.0	1.595	2.604	3.3	18.8
7 30	19 17.19	−18 41.4	1.623	2.604	7.3	19.1
8 9	19 11.57	−19 45.7	1.675	2.604	11.2	19.3
8 19	19 8.15	−20 43.7	1.749	2.605	14.6	19.5

489965 2008 SA_{43} 7 12.9 320°.55 6°.8/14.9 16

6 10	19 51.31	− 6 48.8	1.502	2.362	16.5	21.7
6 20	19 47.10	− 6 14.7	1.423	2.348	13.2	21.5
6 30	19 40.55	− 5 57.4	1.365	2.334	9.8	21.3
7 10	19 32.41	− 5 58.7	1.329	2.321	7.2	21.1
7 20	19 23.67	− 6 18.7	1.316	2.309	7.2	21.0
7 30	19 15.55	− 6 55.2	1.328	2.297	10.0	21.2
8 9	19 9.17	− 7 43.7	1.362	2.285	13.6	21.3
8 19	19 5.32	− 8 39.3	1.415	2.274	17.2	21.5

473000 2015 HU_{29} 7 12.9 172°.15 3°.0/14.2 17

6 10	19 54.07	−12 37.6	1.885	2.746	13.6	21.1
6 20	19 48.62	−12 41.5	1.813	2.747	10.3	20.8
6 30	19 41.20	−12 56.4	1.765	2.748	6.7	20.6
7 10	19 32.52	−13 20.8	1.741	2.749	3.5	20.4
7 20	19 23.48	−13 52.6	1.745	2.750	3.9	20.5
7 30	19 15.08	−14 29.0	1.775	2.750	7.3	20.7
8 9	19 8.22	−15 7.2	1.830	2.750	10.9	20.9
8 19	19 3.52	−15 44.7	1.907	2.750	14.1	21.1

25181 1998 SN_{108} 7 12.9 270°.37 3°.5/14.4 18

6 10	19 50.67	−10 37.7	2.415	3.263	11.4	19.0
6 20	19 45.82	−10 25.8	2.332	3.255	8.8	18.8
6 30	19 39.45	−10 23.0	2.273	3.248	6.1	18.6
7 10	19 32.11	−10 29.1	2.239	3.240	3.8	18.5
7 20	19 24.45	−10 43.4	2.234	3.232	4.0	18.5
7 30	19 17.23	−11 4.4	2.255	3.225	6.4	18.6
8 9	19 11.13	−11 29.9	2.303	3.217	9.2	18.8
8 19	19 6.68	−11 58.1	2.374	3.209	11.9	18.9

442546 2011 YE_{34} 7 12.9 193°.79 1°.0/12.4 18

6 10	19 52.16	−22 52.4	2.445	3.318	10.5	21.3
6 20	19 46.97	−23 32.8	2.371	3.317	7.6	21.1
6 30	19 40.14	−24 16.1	2.322	3.316	4.4	20.9
7 10	19 32.27	−24 59.1	2.301	3.315	1.3	20.7
7 20	19 24.07	−25 38.9	2.307	3.314	2.8	20.8
7 30	19 16.35	−26 13.0	2.342	3.313	6.1	21.0
8 9	19 9.87	−26 40.1	2.403	3.312	9.1	21.2
8 19	19 5.16	−27 0.1	2.488	3.311	11.8	21.4

94053 2000 YO_6 7 12.9 314.°55 1.°4/12.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 57.30	−26 23.3	1.469	2.359	15.1	18.4
6 20	19 51.78	−26 1.4	1.385	2.338	11.2	18.1
6 30	19 43.41	−25 36.2	1.321	2.317	6.7	17.8
7 10	19 33.10	−25 4.8	1.282	2.297	2.0	17.5
7 20	19 22.12	−24 25.8	1.268	2.278	4.1	17.6
7 30	19 11.99	−23 39.6	1.280	2.258	9.1	17.8
8 9	19 4.05	−22 48.8	1.314	2.240	13.8	18.0
8 19	18 59.17	−21 56.4	1.368	2.222	17.9	18.2

432752 2011 EH_{56} 7 12.9 112.°69 5.°3/15.7 17

6 10	19 53.54	− 5 23.6	1.730	2.573	15.4	20.9
6 20	19 48.34	− 5 46.0	1.662	2.578	12.2	20.7
6 30	19 41.09	− 6 27.8	1.616	2.583	8.8	20.5
7 10	19 32.51	− 7 27.8	1.593	2.588	5.9	20.3
7 20	19 23.55	− 8 42.6	1.597	2.593	5.7	20.3
7 30	19 15.25	−10 7.0	1.627	2.598	8.3	20.5
8 9	19 8.56	−11 35.1	1.682	2.603	11.7	20.7
8 19	19 4.14	−13 1.6	1.760	2.607	14.8	20.9

58768 1998 FQ_{40} 7 12.9 21.°99 5.°7/14.8 18

6 10	19 53.05	− 9 28.3	1.226	2.104	18.2	19.2
6 20	19 48.58	− 9 11.0	1.169	2.108	14.2	19.0
6 30	19 41.45	− 9 12.4	1.131	2.112	9.9	18.7
7 10	19 32.62	− 9 32.4	1.115	2.117	6.3	18.5
7 20	19 23.36	−10 8.9	1.121	2.123	6.4	18.6
7 30	19 15.08	−10 57.4	1.151	2.129	10.0	18.8
8 9	19 8.99	−11 52.5	1.202	2.135	14.2	19.1
8 19	19 5.82	−12 48.9	1.272	2.142	18.0	19.3

14431 1992 DX_8 7 12.9 208.°50 1.°2/12.5 18

6 10	19 56.86	−23 14.8	1.781	2.660	13.4	19.0
6 20	19 50.94	−23 47.0	1.708	2.656	9.8	18.7
6 30	19 42.69	−24 22.6	1.658	2.653	5.8	18.5
7 10	19 32.91	−24 57.4	1.634	2.649	1.7	18.2
7 20	19 22.65	−25 27.5	1.637	2.645	3.6	18.3
7 30	19 13.11	−25 50.2	1.667	2.640	7.9	18.6
8 9	19 5.37	−26 4.5	1.721	2.636	11.8	18.8
8 19	19 0.16	−26 11.0	1.797	2.630	15.2	19.0

147834 2005 TZ_{54} 7 12.9 311.°24 0.°8/12.6 18

6 10	19 51.73	−21 0.8	1.951	2.831	12.4	19.4
6 20	19 47.12	−21 51.3	1.868	2.817	9.1	19.2
6 30	19 40.47	−22 48.6	1.809	2.804	5.3	19.0
7 10	19 32.40	−23 48.7	1.775	2.791	1.4	18.7
7 20	19 23.79	−24 46.9	1.769	2.778	3.3	18.8
7 30	19 15.66	−25 39.4	1.790	2.765	7.3	19.0
8 9	19 8.99	−26 23.6	1.836	2.752	11.1	19.2
8 19	19 4.50	−26 58.6	1.903	2.740	14.3	19.4

23617 Duna 7 12.9 260.°88 7.°4/16.1 18

6 10	19 50.12	+ 1 45.6	2.527	3.319	12.6	18.3
6 20	19 45.37	+ 2 25.3	2.443	3.310	10.7	18.1
6 30	19 39.19	+ 2 50.1	2.382	3.300	8.9	18.0
7 10	19 32.07	+ 2 57.9	2.344	3.291	7.6	17.9
7 20	19 24.64	+ 2 48.4	2.331	3.281	7.5	17.9
7 30	19 17.58	+ 2 22.5	2.345	3.272	8.6	17.9
8 9	19 11.55	+ 1 42.9	2.383	3.262	10.4	18.0
8 19	19 7.07	+ 0 53.1	2.443	3.252	12.4	18.1

192829 1999 VL_{100} 7 12.9 179.°64 3.°7/14.3 18

6 10	19 54.15	−10 44.7	2.277	3.122	12.1	21.1
6 20	19 48.36	−10 26.8	2.201	3.123	9.4	20.9
6 30	19 40.93	−10 18.0	2.150	3.124	6.4	20.7
7 10	19 32.47	−10 18.5	2.124	3.124	4.0	20.6
7 20	19 23.73	−10 27.3	2.126	3.124	4.2	20.6
7 30	19 15.52	−10 43.0	2.156	3.124	6.8	20.8
8 9	19 8.59	−11 3.8	2.212	3.123	9.7	20.9
8 19	19 3.49	−11 27.6	2.291	3.121	12.4	21.1

74756 1999 RN_{199} 7 12.9 287.°71 1.°3/13.3 18

6 10	19 56.38	−19 12.0	1.452	2.336	15.5	19.1
6 20	19 51.10	−19 1.9	1.368	2.318	11.6	18.8
6 30	19 43.04	−18 57.7	1.305	2.299	7.0	18.5
7 10	19 33.05	−18 57.4	1.266	2.280	2.2	18.2
7 20	19 22.30	−18 59.1	1.252	2.261	3.8	18.2
7 30	19 12.25	−19 1.0	1.262	2.243	9.0	18.5
8 9	19 4.24	−19 2.0	1.296	2.224	13.8	18.7
8 19	18 59.16	−19 1.7	1.349	2.205	18.0	18.9

131649 2001 XK_{101} 7 12.9 109.°83 2.°0/12.5 18

6 10	20 0.04	−25 35.1	1.394	2.282	15.9	19.7
6 20	19 53.60	−25 50.0	1.336	2.288	11.6	19.4
6 30	19 44.33	−26 5.0	1.299	2.295	6.9	19.2
7 10	19 33.30	−26 15.5	1.287	2.301	2.4	18.9
7 20	19 21.91	−26 18.1	1.300	2.307	4.4	19.1
7 30	19 11.70	−26 11.2	1.337	2.313	9.2	19.4
8 9	19 3.91	−25 56.1	1.398	2.319	13.5	19.6
8 19	18 59.26	−25 34.9	1.479	2.324	17.2	19.9

354501 2004 PW_5 7 12.9 287.°62 3.°1/12.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 58.17	−31 56.2	2.212	3.081	11.5	20.0
6 20	19 51.47	−31 50.3	2.137	3.077	8.6	19.8
6 30	19 42.80	−31 38.4	2.085	3.072	5.5	19.6
7 10	19 32.92	−31 17.5	2.061	3.068	3.2	19.4
7 20	19 22.81	−30 46.4	2.064	3.063	4.2	19.5
7 30	19 13.49	−30 5.4	2.095	3.059	7.2	19.7
8 9	19 5.85	−29 16.7	2.152	3.054	10.4	19.9
8 19	19 0.45	−28 23.0	2.232	3.050	13.1	20.0

370903 2005 GU_{56} 7 12.9 6.°80 2.°5/12.3 17

6 10	19 52.16	−24 27.8	1.052	1.965	17.8	20.2
6 20	19 48.52	−25 6.9	1.000	1.965	13.0	19.9
6 30	19 41.67	−25 50.2	0.967	1.966	7.7	19.6
7 10	19 32.73	−26 31.2	0.954	1.969	2.8	19.4
7 20	19 23.25	−27 3.6	0.964	1.973	5.2	19.5
7 30	19 15.02	−27 23.5	0.996	1.978	10.6	19.8
8 9	19 9.47	−27 30.3	1.048	1.984	15.5	20.1
8 19	19 7.41	−27 25.6	1.118	1.992	19.7	20.4

428283 2007 ET_{96} 7 12.9 352.°93 9.°8/10.3 16

6 10	19 58.31	−41 16.6	1.328	2.212	16.8	20.2
6 20	19 53.13	−42 21.7	1.272	2.207	13.7	20.0
6 30	19 44.41	−43 12.4	1.237	2.203	11.0	19.9
7 10	19 33.38	−43 38.9	1.223	2.200	9.8	19.8
7 20	19 21.78	−43 35.4	1.230	2.197	10.9	19.8
7 30	19 11.59	−43 1.1	1.260	2.196	13.6	20.0
8 9	19 4.39	−42 1.6	1.310	2.196	16.7	20.2
8 19	19 0.99	−40 44.3	1.377	2.196	19.7	20.4

189541 2000 QJ_{173} 7 12.9 171.°91 3.°4/12.2 18

6 10	20 1.09	−31 21.6	1.906	2.778	13.0	19.7
6 20	19 53.84	−31 27.7	1.838	2.780	9.7	19.5
6 30	19 44.27	−31 28.0	1.794	2.782	6.2	19.3
7 10	19 33.28	−31 18.7	1.775	2.783	3.5	19.1
7 20	19 22.03	−30 57.6	1.784	2.784	4.7	19.2
7 30	19 11.75	−30 24.7	1.821	2.784	8.1	19.4
8 9	19 3.46	−29 42.6	1.882	2.785	11.6	19.6
8 19	18 57.80	−28 54.5	1.965	2.785	14.6	19.8

2204 Lyyli 7 12.9 235.°64 6.°3/16.3 18 R

6 10	19 53.87	+ 0 48.6	2.666	3.453	12.1	17.8
6 20	19 48.13	+ 0 54.2	2.564	3.433	10.2	17.6
6 30	19 40.84	+ 0 44.2	2.486	3.413	8.2	17.4
7 10	19 32.51	+ 0 17.7	2.432	3.392	6.7	17.3
7 20	19 23.73	− 0 24.9	2.406	3.370	6.5	17.2
7 30	19 15.23	− 1 21.6	2.408	3.347	7.8	17.3
8 9	19 7.72	− 2 29.2	2.437	3.323	9.9	17.4
8 19	19 1.75	− 3 43.6	2.490	3.299	12.2	17.5

266713 2009 QL_{47} 7 12.9 317.°54 5.°3/11.3 18

6 10	19 57.03	−31 24.3	1.430	2.322	15.3	19.9
6 20	19 51.76	−32 17.9	1.363	2.314	11.6	19.7
6 30	19 43.48	−33 8.3	1.317	2.306	7.7	19.5
7 10	19 33.17	−33 48.2	1.295	2.299	5.3	19.3
7 20	19 22.20	−34 11.5	1.297	2.292	6.9	19.4
7 30	19 12.22	−34 15.5	1.323	2.285	10.7	19.6
8 9	19 4.62	−34 1.6	1.371	2.279	14.7	19.8
8 19	19 0.28	−33 33.7	1.438	2.273	18.2	20.0

263480 2008 EP_{79} 7 12.9 163.°29 3.°1/13.9 17

6 10	19 56.72	−13 30.6	1.802	2.663	14.1	21.2
6 20	19 50.60	−13 22.7	1.733	2.667	10.7	21.0
6 30	19 42.39	−13 24.6	1.687	2.671	6.9	20.8
7 10	19 32.86	−13 35.3	1.666	2.674	3.5	20.6
7 20	19 22.99	−13 53.0	1.672	2.677	4.1	20.6
7 30	19 13.85	−14 15.6	1.705	2.680	7.6	20.8
8 9	19 6.39	−14 40.7	1.763	2.681	11.3	21.1
8 19	19 1.26	−15 6.2	1.843	2.683	14.6	21.3

134685 1999 XJ_{43} 7 12.9 241.°86 0.°6/12.8 17

6 10	19 57.46	−22 5.5	1.703	2.581	13.9	20.6
6 20	19 51.54	−22 25.4	1.623	2.571	10.3	20.4
6 30	19 43.15	−22 49.4	1.565	2.560	6.0	20.1
7 10	19 33.08	−23 14.0	1.533	2.548	1.5	19.8
7 20	19 22.42	−23 35.7	1.527	2.536	3.5	19.9
7 30	19 12.44	−23 51.8	1.548	2.524	8.1	20.1
8 9	19 4.32	−24 1.5	1.593	2.511	12.3	20.3
8 19	18 58.83	−24 5.0	1.659	2.498	16.0	20.6

38712 2000 QP_{103} 7 12.9 236.°15 0.°3/13.1 18

6 10	19 56.94	−19 2.1	1.541	2.422	15.0	19.4
6 20	19 51.32	−19 32.2	1.466	2.414	11.1	19.1
6 30	19 43.09	−20 10.9	1.412	2.407	6.6	18.9
7 10	19 33.08	−20 54.3	1.383	2.399	1.6	18.5
7 20	19 22.43	−21 38.0	1.380	2.390	3.6	18.6
7 30	19 12.51	−22 17.9	1.403	2.382	8.5	18.9
8 9	19 4.55	−22 51.4	1.450	2.373	13.0	19.1
8 19	18 59.40	−23 17.8	1.517	2.364	16.8	19.4

311458 2005 UB_{386} 7 12.9 253°.26 4°.7/10.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 55.01	−34 10.2	2.354	3.224	10.9	20.8
6 20	19 49.37	−35 12.2	2.281	3.217	8.4	20.6
6 30	19 41.72	−36 10.1	2.232	3.210	6.0	20.4
7 10	19 32.73	−36 58.9	2.210	3.203	4.7	20.4
7 20	19 23.28	−37 34.6	2.215	3.195	5.8	20.4
7 30	19 14.37	−37 55.0	2.247	3.188	8.2	20.5
8 9	19 6.95	−38 0.3	2.303	3.180	10.8	20.7
8 19	19 1.67	−37 52.6	2.381	3.172	13.2	20.9

509975 2009 TW_{9} 7 12.9 309°.38 7°.7/ 9.7 18

6 10	19 56.42	−34 9.3	1.346	2.240	15.9	20.7
6 20	19 52.03	−35 38.2	1.261	2.210	12.5	20.4
6 30	19 44.11	−37 6.3	1.197	2.180	9.2	20.1
7 10	19 33.44	−38 22.9	1.156	2.150	7.7	19.9
7 20	19 21.42	−39 18.0	1.137	2.120	9.5	19.9
7 30	19 10.02	−39 45.4	1.142	2.091	13.4	20.1
8 9	19 1.13	−39 45.0	1.166	2.063	17.6	20.2
8 19	18 56.08	−39 21.3	1.207	2.035	21.4	20.4

89764 2002 AW_{61} 7 13.0 313°.31 3°.7/12.4 18

6 10	19 59.69	−31 25.3	1.552	2.436	14.8	18.1
6 20	19 53.39	−31 21.2	1.477	2.425	11.1	17.9
6 30	19 44.27	−31 10.0	1.424	2.415	7.1	17.6
7 10	19 33.35	−30 47.4	1.396	2.405	3.9	17.4
7 20	19 21.97	−30 11.1	1.393	2.395	5.3	17.5
7 30	19 11.63	−29 21.8	1.416	2.386	9.3	17.7
8 9	19 3.60	−28 22.7	1.462	2.377	13.4	17.9
8 19	18 58.64	−27 18.4	1.529	2.369	17.1	18.1

464884 2005 LY_{1} 7 13.0 347°.47 4°.3/14.4 17

6 10	19 45.87	−12 35.4	0.971	1.880	19.2	19.9
6 20	19 44.03	−12 35.6	0.907	1.866	14.8	19.6
6 30	19 39.18	−12 55.9	0.860	1.853	9.8	19.2
7 10	19 32.22	−13 35.8	0.832	1.842	5.1	19.0
7 20	19 24.49	−14 31.4	0.824	1.834	5.6	18.9
7 30	19 17.67	−15 36.5	0.838	1.827	10.6	19.2
8 9	19 13.27	−16 43.8	0.870	1.822	15.9	19.5
8 19	19 12.25	−17 47.2	0.919	1.819	20.6	19.7

418333 2008 GH_{7} 7 13.0 154°.53 1°.8/13.7 17

6 10	19 57.14	−15 30.5	2.014	2.874	12.9	22.6
6 20	19 50.73	−15 40.9	1.947	2.883	9.6	22.4
6 30	19 42.40	−15 59.1	1.903	2.891	5.9	22.2
7 10	19 32.89	−16 23.3	1.886	2.898	2.4	22.0
7 20	19 23.08	−16 50.9	1.897	2.905	3.2	22.0
7 30	19 13.96	−17 19.7	1.936	2.911	6.8	22.3
8 9	19 6.39	−17 47.5	2.001	2.916	10.3	22.5
8 19	19 0.97	−18 13.0	2.088	2.921	13.4	22.7

478305 2011 WA_{59} 7 13.0 203°.33 0°.4/12.8 18

6 10	19 52.72	−21 28.0	2.392	3.262	10.7	22.1
6 20	19 47.42	−21 57.7	2.316	3.260	7.8	21.9
6 30	19 40.46	−22 30.9	2.265	3.258	4.6	21.7
7 10	19 32.44	−23 5.1	2.240	3.256	1.1	21.5
7 20	19 24.09	−23 37.3	2.244	3.253	2.6	21.6
7 30	19 16.23	−24 5.5	2.277	3.250	6.1	21.8
8 9	19 9.62	−24 28.3	2.335	3.247	9.2	22.0
8 19	19 4.83	−24 45.5	2.417	3.244	11.9	22.2

193699 2001 FQ_{52} 7 13.0 159°.65 4°.4/11.3 18

6 10	19 58.84	−34 6.4	2.272	3.138	11.4	20.4
6 20	19 52.03	−34 44.9	2.209	3.143	8.7	20.2
6 30	19 43.18	−35 17.6	2.169	3.148	6.0	20.0
7 10	19 33.07	−35 40.0	2.157	3.153	4.4	20.0
7 20	19 22.68	−35 49.0	2.172	3.157	5.4	20.0
7 30	19 13.05	−35 43.7	2.214	3.161	7.9	20.2
8 9	19 5.11	−35 25.6	2.281	3.164	10.6	20.4
8 19	18 59.46	−34 57.4	2.370	3.167	13.1	20.5

185721 1998 SS_{92} 7 13.0 263°.37 4°.1/11.7 18

6 10	19 58.90	−30 22.9	1.646	2.528	14.1	20.2
6 20	19 52.85	−31 0.1	1.568	2.516	10.6	20.0
6 30	19 44.04	−31 34.5	1.513	2.503	6.9	19.7
7 10	19 33.33	−32 0.2	1.483	2.490	4.2	19.5
7 20	19 21.98	−32 12.5	1.478	2.476	5.7	19.6
7 30	19 11.44	−32 9.3	1.499	2.463	9.5	19.8
8 9	19 3.02	−31 51.8	1.544	2.449	13.4	20.0
8 19	18 57.57	−31 23.0	1.608	2.436	16.9	20.2

68023 2000 YW_{18} 7 13.0 114°.35 6°.0/11.4 18

6 10	20 1.06	−41 45.1	2.456	3.303	11.3	18.5
6 20	19 53.51	−42 1.0	2.394	3.308	9.1	18.4
6 30	19 43.95	−42 5.4	2.355	3.312	7.0	18.3
7 10	19 33.23	−41 54.3	2.343	3.317	6.0	18.2
7 20	19 22.39	−41 26.0	2.357	3.321	6.6	18.3
7 30	19 12.52	−40 41.0	2.399	3.325	8.4	18.4
8 9	19 4.49	−39 42.4	2.466	3.330	10.6	18.5
8 19	18 58.83	−38 34.5	2.555	3.334	12.7	18.7

479218 2013 CC_{169} 7 13.0 122°.23 1°.8/13.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 10	19 51.72	−14 9.3	2.338	3.197	11.4	21.7
6 20	19 46.63	−14 36.7	2.268	3.202	8.5	21.5
6 30	19 39.97	−15 12.8	2.221	3.208	5.3	21.3
7 10	19 32.33	−15 55.4	2.202	3.213	2.3	21.1
7 20	19 24.40	−16 42.0	2.210	3.218	2.8	21.2
7 30	19 16.98	−17 29.6	2.247	3.223	5.9	21.4
8 9	19 10.78	−18 15.7	2.310	3.228	9.0	21.6
8 19	19 6.31	−18 58.5	2.397	3.233	11.8	21.8

233523 2007 HD_{7} 7 13.0 66°.58 1°.2/13.4 17

6 10	19 55.84	−18 20.7	1.571	2.451	14.8	20.4
6 20	19 50.13	−18 24.8	1.518	2.465	10.9	20.1
6 30	19 42.15	−18 35.7	1.486	2.479	6.5	19.9
7 10	19 32.84	−18 51.1	1.479	2.494	2.0	19.7
7 20	19 23.29	−19 8.3	1.498	2.508	3.4	19.8
7 30	19 14.71	−19 24.9	1.543	2.522	7.8	20.1
8 9	19 8.07	−19 39.4	1.611	2.537	11.8	20.4
8 19	19 3.99	−19 51.1	1.701	2.551	15.2	20.6

26208 1997 QJ_{3} 7 13.0 336°.71 5°.1/14.5 18

6 10	19 52.08	−10 46.7	1.346	2.223	17.0	18.0
6 20	19 47.88	−10 27.3	1.275	2.215	13.2	17.7
6 30	19 41.12	−10 23.4	1.225	2.208	9.1	17.5
7 10	19 32.66	−10 35.4	1.197	2.201	5.6	17.3
7 20	19 23.62	−11 1.7	1.192	2.195	5.8	17.3
7 30	19 15.36	−11 39.3	1.211	2.190	9.6	17.4
8 9	19 9.07	−12 23.7	1.252	2.185	13.8	17.7
8 19	19 5.57	−13 10.5	1.313	2.181	17.7	17.9

307100 2002 CJ_{7} 7 13.0 127°.41 12°.9/ 9.0 16

6 10	20 17.00	−54 2.6	1.778	2.587	16.4	21.2
6 20	20 6.85	−55 37.3	1.744	2.603	14.6	21.1
6 30	19 52.40	−56 47.8	1.730	2.620	13.3	21.1
7 10	19 35.27	−57 23.6	1.739	2.635	12.9	21.1
7 20	19 17.80	−57 19.9	1.769	2.650	13.5	21.1
7 30	19 2.47	−56 38.6	1.821	2.663	14.8	21.3
8 9	18 51.06	−55 27.8	1.893	2.676	16.4	21.4
8 19	18 44.28	−53 57.4	1.982	2.689	18.1	21.6

479306 2013 JD_{33} 7 13.0 109°.52 9°.2/ 7.4 18

6 10	20 3.63	−51 55.6	2.646	3.454	11.7	21.1
6 20	19 55.99	−53 24.1	2.608	3.469	10.3	21.0
6 30	19 45.71	−54 37.1	2.594	3.483	9.4	21.0
7 10	19 33.71	−55 28.4	2.604	3.498	9.2	21.0
7 20	19 21.23	−55 54.4	2.637	3.511	9.8	21.1
7 30	19 9.67	−55 55.0	2.695	3.525	10.9	21.2
8 9	19 0.23	−55 33.3	2.773	3.539	12.2	21.3
8 19	18 53.68	−54 54.0	2.870	3.552	13.5	21.4

392884 2012 US_{174} 7 13.0 214°.07 0°.1/12.9 18

6 10	19 55.10	−21 24.3	2.384	3.250	10.9	22.5
6 20	19 49.16	−21 34.4	2.301	3.243	8.0	22.3
6 30	19 41.49	−21 47.3	2.243	3.236	4.7	22.1
7 10	19 32.70	−22 0.6	2.212	3.228	1.1	21.8
7 20	19 23.56	−22 12.6	2.210	3.219	2.6	21.9
7 30	19 14.93	−22 21.6	2.237	3.210	6.1	22.2
8 9	19 7.60	−22 27.0	2.289	3.201	9.4	22.3
8 19	19 2.14	−22 28.9	2.365	3.191	12.2	22.5

66669 Aradac 7 13.0 227°.38 5°.6/15.3 18

6 10	19 52.95	− 5 28.6	2.062	2.895	13.6	20.0
6 20	19 47.74	− 5 11.8	1.981	2.889	11.0	19.8
6 30	19 40.73	− 5 9.5	1.922	2.882	8.2	19.6
7 10	19 32.53	− 5 22.2	1.888	2.875	6.0	19.4
7 20	19 23.94	− 5 49.3	1.881	2.868	5.9	19.4
7 30	19 15.84	− 6 28.5	1.900	2.861	8.1	19.5
8 9	19 9.07	− 7 16.4	1.944	2.853	10.9	19.7
8 19	19 4.24	− 8 9.2	2.010	2.845	13.7	19.9

443625 2014 MM_{34} 7 13.0 293°.24 1°.0/12.4 18

6 10	19 52.70	−21 16.7	2.167	3.042	11.5	20.4
6 20	19 47.64	−22 19.9	2.092	3.038	8.4	20.2
6 30	19 40.71	−23 29.0	2.040	3.035	4.9	20.0
7 10	19 32.54	−24 39.7	2.016	3.031	1.4	19.7
7 20	19 23.92	−25 47.4	2.021	3.028	3.1	19.8
7 30	19 15.77	−26 48.1	2.053	3.024	6.8	20.1
8 9	19 8.98	−27 39.6	2.111	3.021	10.2	20.3
8 19	19 4.18	−28 20.9	2.192	3.018	13.1	20.5

446810 1999 VT_{135} 7 13.0 242°.66 18°.1/ 3.5 17

6 10	20 15.14	−54 9.4	1.219	2.059	20.8	20.7
6 20	20 8.31	−56 59.7	1.174	2.050	19.1	20.6
6 30	19 54.94	−59 25.2	1.146	2.041	18.2	20.5
7 10	19 36.20	−61 6.4	1.138	2.031	18.4	20.5
7 20	19 15.19	−61 49.9	1.147	2.021	19.6	20.5
7 30	18 56.29	−61 33.9	1.173	2.011	21.5	20.6
8 9	18 43.10	−60 29.3	1.213	2.000	23.7	20.7
8 19	18 37.02	−58 51.2	1.265	1.989	25.8	20.9