2020	α_{2000}	δ_{2000}	Δ	r	β	V
271865 2004 TM_{305}			7 30.9	42°.16	3°.0/29.4	17
	h m	° ′			°	m
6 30	21 6.62	−24 3.4	1.583	2.490	13.3	20.1
7 10	21 0.51	−24 40.1	1.528	2.492	9.4	19.8
7 20	20 52.16	−25 17.5	1.495	2.495	5.4	19.6
7 30	20 42.50	−25 49.4	1.488	2.499	3.0	19.5
8 9	20 32.78	−26 10.9	1.507	2.502	5.8	19.6
8 19	20 24.19	−26 19.3	1.551	2.505	9.8	19.9
8 29	20 17.77	−26 14.1	1.618	2.509	13.6	20.1
9 8	20 14.14	−25 56.8	1.704	2.512	16.7	20.4
377637 2005 TV_{75}			7 30.9	257°.68	6°.0/ 3.1	18
6 30	21 5.88	− 2 26.7	1.922	2.766	14.1	21.3
7 10	20 59.84	− 1 56.3	1.831	2.746	11.3	21.1
7 20	20 51.83	− 1 41.4	1.761	2.726	8.4	20.9
7 30	20 42.49	− 1 43.1	1.717	2.705	6.2	20.7
8 9	20 32.76	− 2 0.6	1.699	2.683	6.5	20.7
8 19	20 23.61	− 2 31.0	1.707	2.661	9.1	20.8
8 29	20 16.02	− 3 10.4	1.740	2.639	12.3	20.9
9 8	20 10.70	− 3 53.8	1.794	2.616	15.5	21.1
147351 2003 BB_{81}			7 30.9	204°.23	2°.0/31.9	18
6 30	21 8.51	−13 25.5	1.820	2.700	13.2	19.9
7 10	21 1.60	−13 8.9	1.748	2.697	9.6	19.7
7 20	20 52.68	−13 0.0	1.700	2.694	5.6	19.5
7 30	20 42.56	−12 57.2	1.678	2.690	2.1	19.2
8 9	20 32.28	−12 58.2	1.684	2.686	4.1	19.4
8 19	20 22.90	−13 0.8	1.717	2.682	8.2	19.6
8 29	20 15.37	−13 2.9	1.775	2.677	12.0	19.8
9 8	20 10.30	−13 2.9	1.854	2.672	15.2	20.0
119780 2002 AA_{46}			7 30.9	5°.78	0°.5/30.7	18
6 30	21 2.14	−17 48.1	1.846	2.746	12.1	19.5
7 10	20 57.10	−18 20.5	1.784	2.746	8.5	19.2
7 20	20 50.26	−18 59.2	1.745	2.746	4.5	19.0
7 30	20 42.34	−19 39.8	1.732	2.747	0.6	18.7
8 9	20 34.31	−20 18.1	1.746	2.749	4.0	19.0
8 19	20 27.10	−20 50.2	1.787	2.750	8.0	19.2
8 29	20 21.57	−21 13.7	1.851	2.752	11.6	19.4
9 8	20 18.30	−21 27.6	1.936	2.754	14.6	19.7
74701 1999 RT_{145}			7 30.9	300°.02	1°.3/31.5	18
6 30	21 6.03	−14 55.1	1.335	2.237	15.6	19.2
7 10	21 0.72	−14 54.6	1.249	2.211	11.4	18.9
7 20	20 52.64	−15 4.6	1.184	2.184	6.5	18.6
7 30	20 42.60	−15 22.2	1.143	2.157	1.6	18.2
8 9	20 31.91	−15 43.2	1.126	2.130	5.0	18.3
8 19	20 22.07	−16 3.1	1.132	2.104	10.6	18.6
8 29	20 14.51	−16 18.4	1.161	2.077	15.7	18.8
9 8	20 10.21	−16 26.7	1.208	2.052	20.1	19.0
88232 2001 BN_{72}			7 30.9	181°.14	2°.0/ 1.9	18
6 30	21 0.55	− 8 42.4	2.569	3.433	10.4	19.8
7 10	20 55.58	− 9 16.7	2.496	3.434	7.7	19.6
7 20	20 49.31	−10 1.7	2.447	3.434	4.8	19.4
7 30	20 42.27	−10 55.0	2.425	3.434	2.3	19.3
8 9	20 35.11	−11 53.1	2.432	3.434	3.2	19.3
8 19	20 28.47	−12 52.5	2.468	3.433	6.0	19.5
8 29	20 22.97	−13 49.6	2.531	3.433	8.8	19.7
9 8	20 19.07	−14 41.4	2.617	3.432	11.4	19.9
405745 2005 YW_{77}			7 30.9	208°.47	0°.6/31.3	17
6 30	21 9.43	−16 14.6	1.378	2.277	15.4	21.4
7 10	21 2.76	−16 19.6	1.315	2.275	11.1	21.2
7 20	20 53.51	−16 33.0	1.273	2.273	6.1	20.9
7 30	20 42.67	−16 50.8	1.255	2.270	0.9	20.5
8 9	20 31.64	−17 8.6	1.263	2.267	4.8	20.8
8 19	20 21.81	−17 22.7	1.296	2.264	9.9	21.1
8 29	20 14.39	−17 30.8	1.352	2.261	14.5	21.3
9 8	20 10.10	−17 31.6	1.427	2.257	18.3	21.6
359806 2011 US_{251}			7 30.9	210°.19	0°.8/31.7	18
6 30	21 2.26	−13 46.3	2.659	3.535	9.7	22.5
7 10	20 56.78	−14 9.2	2.581	3.529	7.0	22.3
7 20	20 49.97	−14 38.9	2.528	3.523	3.9	22.1
7 30	20 42.35	−15 12.9	2.502	3.516	1.0	21.9
8 9	20 34.59	−15 48.4	2.506	3.509	2.9	22.0
8 19	20 27.34	−16 22.6	2.539	3.502	6.0	22.2
8 29	20 21.24	−16 53.2	2.598	3.494	8.9	22.4
9 8	20 16.77	−17 18.6	2.681	3.486	11.4	22.6
478607 2012 TX_{143}			7 30.9	163°.94	2°.6/ 1.7	17
6 30	21 4.09	− 9 48.6	1.941	2.815	12.7	21.8
7 10	20 58.37	− 9 56.9	1.874	2.817	9.4	21.6
7 20	20 50.92	−10 16.8	1.830	2.819	5.8	21.4
7 30	20 42.44	−10 46.3	1.812	2.821	2.8	21.2
8 9	20 33.83	−11 22.0	1.821	2.822	4.0	21.3
8 19	20 26.00	−12 0.1	1.857	2.823	7.5	21.5
8 29	20 19.76	−12 37.0	1.918	2.824	11.0	21.8
9 8	20 15.68	−13 9.8	2.002	2.825	14.0	22.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
298127 2002 RF_{251}			7 31.0	63°.45	3°.1/ 2.4	16
	h m	° ′			°	m
6 30	21 1.92	− 6 43.0	1.776	2.647	13.9	20.4
7 10	20 56.93	− 7 21.5	1.715	2.655	10.4	20.2
7 20	20 50.18	− 8 16.8	1.676	2.662	6.6	19.9
7 30	20 42.37	− 9 25.6	1.663	2.670	3.5	19.8
8 9	20 34.46	−10 42.4	1.676	2.678	4.3	19.8
8 19	20 27.35	−12 1.2	1.717	2.686	7.8	20.1
8 29	20 21.91	−13 16.2	1.782	2.694	11.4	20.3
9 8	20 18.68	−14 23.2	1.869	2.702	14.5	20.5
514053 2014 OM_{129}			7 31.0	7°.17	3°.3/ 2.5	18
6 30	20 59.96	− 6 37.5	1.880	2.752	13.2	20.7
7 10	20 55.52	− 7 3.4	1.813	2.752	10.0	20.5
7 20	20 49.41	− 7 45.0	1.768	2.753	6.5	20.3
7 30	20 42.31	− 8 39.9	1.749	2.755	3.6	20.2
8 9	20 35.06	− 9 43.8	1.756	2.757	4.3	20.2
8 19	20 28.53	−10 51.4	1.790	2.759	7.5	20.4
8 29	20 23.52	−11 57.7	1.848	2.762	10.9	20.6
9 8	20 20.58	−12 58.1	1.929	2.765	14.0	20.8
328529 2009 QA_{62}			7 31.0	342°.32	4°.2/28.8	17
6 30	20 57.19	−22 14.2	0.943	1.882	16.8	19.2
7 10	20 55.01	−23 25.4	0.882	1.863	12.0	18.9
7 20	20 49.74	−24 46.3	0.840	1.845	6.9	18.6
7 30	20 42.38	−26 6.4	0.817	1.829	4.2	18.4
8 9	20 34.52	−27 14.0	0.816	1.814	8.3	18.5
8 19	20 27.94	−28 0.4	0.834	1.802	13.8	18.8
8 29	20 24.25	−28 21.4	0.870	1.793	19.0	19.0
9 8	20 24.38	−28 17.6	0.921	1.785	23.3	19.3
89162 2001 UA_{49}			7 31.0	287°.64	1°.1/30.3	18
6 30	21 3.17	−19 34.2	1.993	2.891	11.4	19.6
7 10	20 57.87	−20 8.9	1.918	2.879	8.1	19.4
7 20	20 50.73	−20 48.6	1.866	2.867	4.3	19.1
7 30	20 42.46	−21 28.9	1.840	2.855	1.1	18.9
8 9	20 33.94	−22 5.4	1.842	2.842	4.2	19.1
8 19	20 26.12	−22 34.8	1.871	2.830	8.0	19.3
8 29	20 19.90	−22 54.7	1.924	2.818	11.6	19.5
9 8	20 15.89	−23 4.4	1.999	2.807	14.6	19.7
128136 2003 QR_{50}			7 31.0	65°.03	1°.0/30.2	18
6 30	21 1.67	−19 22.3	2.303	3.197	10.2	19.7
7 10	20 56.51	−20 1.8	2.241	3.201	7.2	19.5
7 20	20 49.87	−20 45.4	2.204	3.204	3.8	19.3
7 30	20 42.37	−21 29.0	2.194	3.208	1.0	19.1
8 9	20 34.78	−22 9.0	2.212	3.212	3.6	19.3
8 19	20 27.86	−22 42.3	2.258	3.216	7.0	19.5
8 29	20 22.32	−23 7.0	2.329	3.219	10.0	19.7
9 8	20 18.64	−23 22.3	2.423	3.223	12.6	19.9
291547 2006 EP_{54}			7 31.0	98°.12	1°.1/31.8	17
6 30	21 4.85	−13 5.5	1.826	2.712	12.9	20.9
7 10	20 58.92	−13 35.7	1.773	2.726	9.3	20.7
7 20	20 51.20	−14 15.6	1.744	2.741	5.2	20.5
7 30	20 42.50	−15 1.7	1.741	2.755	1.4	20.3
8 9	20 33.78	−15 49.1	1.765	2.769	3.7	20.5
8 19	20 25.98	−16 33.7	1.816	2.782	7.7	20.8
8 29	20 19.92	−17 12.2	1.892	2.796	11.2	21.0
9 8	20 16.14	−17 42.5	1.990	2.809	14.2	21.2
446438 2014 JJ_{43}			7 31.0	352°.65	3°.8/28.2	18
6 30	21 1.00	−24 22.9	1.706	2.618	12.2	20.0
7 10	20 56.59	−25 44.2	1.647	2.614	8.7	19.8
7 20	20 50.14	−27 8.1	1.611	2.610	5.2	19.6
7 30	20 42.42	−28 27.3	1.601	2.607	3.9	19.5
8 9	20 34.47	−29 34.5	1.617	2.604	6.4	19.6
8 19	20 27.39	−30 25.1	1.658	2.602	10.0	19.8
8 29	20 22.16	−30 56.9	1.721	2.601	13.5	20.0
9 8	20 19.44	−31 10.6	1.804	2.601	16.4	20.2
131536 2001 UW_{112}			7 31.0	214°.40	1°.6/31.8	18
6 30	21 8.24	−13 34.5	1.454	2.346	15.2	19.8
7 10	21 1.85	−13 39.4	1.387	2.343	11.0	19.5
7 20	20 53.03	−13 55.2	1.343	2.340	6.3	19.3
7 30	20 42.70	−14 18.9	1.322	2.336	1.9	19.0
8 9	20 32.13	−14 46.1	1.328	2.332	4.6	19.2
8 19	20 22.64	−15 12.5	1.359	2.327	9.5	19.4
8 29	20 15.37	−15 34.8	1.413	2.322	13.9	19.7
9 8	20 11.05	−15 50.7	1.486	2.317	17.6	19.9
33114 1998 BH_{5}			7 31.0	321°.88	0°.2/30.9	18
6 30	21 3.37	−16 6.1	1.528	2.431	13.9	18.9
7 10	20 58.36	−16 49.7	1.462	2.425	9.9	18.7
7 20	20 51.14	−17 43.6	1.418	2.419	5.4	18.4
7 30	20 42.52	−18 42.7	1.399	2.414	0.5	18.0
8 9	20 33.65	−19 40.5	1.405	2.408	4.5	18.3
8 19	20 25.70	−20 31.4	1.437	2.403	9.2	18.6
8 29	20 19.76	−21 11.6	1.491	2.399	13.5	18.8
9 8	20 16.51	−21 39.3	1.566	2.394	17.0	19.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
376131 2011 AH_{56}			7 31.0 232.°82		0.°0/30.9 18	
	h m	° ′			°	m
6 30	21 7.13	−17 7.6	1.689	2.583	13.3	21.7
7 10	21 0.87	−17 25.1	1.618	2.577	9.5	21.4
7 20	20 52.44	−17 49.3	1.570	2.570	5.2	21.2
7 30	20 42.65	−18 16.5	1.547	2.562	0.5	20.8
8 9	20 32.64	−18 42.3	1.552	2.555	4.3	21.1
8 19	20 23.53	−19 3.2	1.583	2.547	8.8	21.3
8 29	20 16.38	−19 16.9	1.637	2.539	12.8	21.5
9 8	20 11.86	−19 22.4	1.712	2.530	16.2	21.8
346550 2008 UQ_{324}			7 31.0 196.°89		1.°0/31.7 18	
6 30	21 5.13	−14 14.4	2.175	3.055	11.3	21.9
7 10	20 59.02	−14 25.8	2.102	3.053	8.2	21.7
7 20	20 51.28	−14 44.4	2.054	3.050	4.6	21.5
7 30	20 42.54	−15 7.6	2.033	3.047	1.2	21.2
8 9	20 33.67	−15 32.5	2.041	3.044	3.4	21.4
8 19	20 25.49	−15 56.0	2.076	3.040	7.0	21.6
8 29	20 18.80	−16 16.0	2.137	3.035	10.4	21.8
9 8	20 14.14	−16 30.9	2.220	3.031	13.2	22.0
2222 Lermontov			7 31.0 249.°07		0.°6/30.6 18	R
6 30	21 2.39	−18 35.4	2.524	3.413	9.7	16.6
7 10	20 57.01	−19 5.8	2.444	3.401	6.8	16.4
7 20	20 50.18	−19 40.6	2.388	3.388	3.6	16.2
7 30	20 42.45	−20 16.4	2.361	3.376	0.6	15.9
8 9	20 34.53	−20 50.1	2.362	3.363	3.3	16.1
8 19	20 27.15	−21 18.9	2.391	3.350	6.6	16.3
8 29	20 21.00	−21 40.7	2.447	3.336	9.6	16.5
9 8	20 16.61	−21 54.9	2.525	3.323	12.2	16.7
340463 2006 HH_{19}			7 31.0 98.°27		0.°1/31.1 17	
6 30	21 4.12	−15 44.6	1.802	2.696	12.6	20.9
7 10	20 58.53	−16 21.1	1.743	2.701	9.0	20.7
7 20	20 51.08	−17 5.9	1.707	2.706	4.9	20.4
7 30	20 42.54	−17 54.6	1.697	2.712	0.5	20.1
8 9	20 33.89	−18 42.1	1.714	2.717	3.9	20.4
8 19	20 26.12	−19 24.4	1.758	2.722	8.0	20.7
8 29	20 20.10	−19 58.4	1.826	2.728	11.7	20.9
9 8	20 16.42	−20 22.6	1.915	2.733	14.8	21.1
254176 2004 RB_{6}			7 31.0 294.°42		0.°0/31.1 18	
6 30	21 1.06	−14 35.7	2.135	3.024	11.2	20.6
7 10	20 56.37	−15 33.5	2.047	3.003	8.0	20.4
7 20	20 49.97	−16 41.9	1.983	2.983	4.4	20.1
7 30	20 42.44	−17 56.6	1.947	2.962	0.4	19.8
8 9	20 34.58	−19 12.4	1.939	2.942	3.6	20.0
8 19	20 27.22	−20 23.9	1.958	2.921	7.5	20.2
8 29	20 21.23	−21 27.1	2.003	2.901	11.0	20.4
9 8	20 17.24	−22 19.2	2.070	2.880	14.1	20.6
183756 2004 AK_{5}			7 31.0 224.°90		0.°9/30.4 18	
6 30	21 7.44	−18 33.8	1.906	2.797	12.2	21.2
7 10	21 1.00	−19 14.2	1.828	2.786	8.6	20.9
7 20	20 52.50	−20 0.8	1.774	2.774	4.6	20.7
7 30	20 42.68	−20 48.8	1.748	2.762	0.9	20.4
8 9	20 32.55	−21 33.2	1.749	2.749	4.3	20.6
8 19	20 23.18	−22 9.9	1.778	2.736	8.5	20.8
8 29	20 15.56	−22 36.3	1.831	2.721	12.3	21.0
9 8	20 10.38	−22 51.8	1.906	2.706	15.5	21.2
183928 2004 DY_{1}			7 31.0 214.°02		0.°2/31.2 18	
6 30	21 3.58	−15 47.0	2.390	3.273	10.3	21.5
7 10	20 57.88	−16 18.4	2.313	3.266	7.4	21.3
7 20	20 50.66	−16 56.3	2.261	3.259	4.0	21.1
7 30	20 42.51	−17 37.4	2.237	3.252	0.5	20.8
8 9	20 34.17	−18 18.3	2.241	3.244	3.2	21.0
8 19	20 26.41	−18 55.7	2.274	3.235	6.7	21.2
8 29	20 19.97	−19 27.1	2.333	3.226	9.8	21.4
9 8	20 15.38	−19 51.2	2.415	3.217	12.5	21.6
65957 1998 FO_{147}			7 31.0 243.°76		4.°5/ 2.4 18	
6 30	21 5.52	− 6 22.4	1.544	2.417	15.5	19.2
7 10	20 59.86	− 6 20.4	1.471	2.409	11.9	19.0
7 20	20 51.96	− 6 36.1	1.419	2.402	8.0	18.7
7 30	20 42.64	− 7 8.2	1.390	2.394	4.8	18.5
8 9	20 33.00	− 7 53.1	1.388	2.386	5.6	18.5
8 19	20 24.23	− 8 45.8	1.410	2.378	9.3	18.7
8 29	20 17.42	− 9 40.6	1.456	2.369	13.4	19.0
9 8	20 13.30	−10 32.3	1.522	2.360	17.0	19.2
143874 2003 YO_{24}			7 31.0 295.°45		1.°1/30.4 18	
6 30	21 4.15	−17 7.7	1.381	2.289	14.8	19.6
7 10	20 59.24	−18 9.7	1.310	2.276	10.5	19.3
7 20	20 51.79	−19 23.9	1.260	2.262	5.7	19.0
7 30	20 42.63	−20 43.3	1.235	2.250	1.1	18.7
8 9	20 33.04	−21 59.6	1.235	2.237	5.4	18.9
8 19	20 24.39	−23 5.5	1.259	2.224	10.5	19.2
8 29	20 17.95	−23 56.0	1.306	2.212	15.1	19.4
9 8	20 14.58	−24 29.6	1.371	2.199	19.0	19.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
371471 2006 TE_{14}			7 31.0 296.°80		6.°6/28.2 17	
	h m	° ′			°	m
6 30	21 10.91	−31 43.8	1.382	2.289	14.8	20.9
7 10	21 4.26	−32 24.5	1.313	2.272	11.2	20.7
7 20	20 54.57	−32 58.2	1.266	2.256	7.8	20.4
7 30	20 42.91	−33 16.0	1.242	2.239	6.6	20.3
8 9	20 30.90	−33 11.6	1.243	2.223	9.0	20.4
8 19	20 20.24	−32 43.2	1.267	2.206	12.9	20.6
8 29	20 12.36	−31 53.4	1.312	2.190	16.9	20.8
9 8	20 8.09	−30 47.4	1.374	2.175	20.4	21.0
81289 2000 FC_{65}			7 31.0 257.°05		1.°3/31.8 18	R
6 30	21 4.85	−12 52.6	1.619	2.509	14.0	19.5
7 10	20 59.35	−13 21.2	1.546	2.501	10.2	19.3
7 20	20 51.69	−14 2.1	1.496	2.493	5.8	19.0
7 30	20 42.64	−14 51.7	1.471	2.484	1.6	18.7
8 9	20 33.30	−15 44.7	1.472	2.476	4.2	18.9
8 19	20 24.80	−16 35.8	1.499	2.467	8.8	19.1
8 29	20 18.20	−17 20.5	1.549	2.458	13.0	19.4
9 8	20 14.22	−17 56.2	1.620	2.449	16.5	19.6
331337 2012 BY_{52}			7 31.0 148.°99		0.°8/30.6 17	
6 30	21 10.56	−19 32.9	1.723	2.615	13.2	21.4
7 10	21 3.12	−19 49.6	1.666	2.624	9.3	21.2
7 20	20 53.57	−20 9.9	1.632	2.632	5.0	21.0
7 30	20 42.83	−20 29.5	1.625	2.640	0.9	20.7
8 9	20 32.06	−20 44.5	1.646	2.647	4.4	21.0
8 19	20 22.41	−20 52.4	1.693	2.653	8.7	21.3
8 29	20 14.84	−20 52.1	1.765	2.659	12.5	21.5
9 8	20 9.94	−20 44.0	1.858	2.664	15.6	21.7
311535 2005 YB_{112}			7 31.0 150.°89		1.°1/30.1 18	
6 30	21 2.01	−19 57.5	2.558	3.448	9.5	21.2
7 10	20 56.68	−20 40.5	2.494	3.452	6.6	21.0
7 20	20 49.98	−21 26.7	2.456	3.456	3.5	20.8
7 30	20 42.49	−22 12.5	2.446	3.460	1.1	20.6
8 9	20 34.90	−22 54.3	2.465	3.463	3.5	20.8
8 19	20 27.90	−23 29.3	2.512	3.466	6.5	21.0
8 29	20 22.16	−23 55.8	2.585	3.469	9.3	21.2
9 8	20 18.14	−24 13.2	2.681	3.472	11.7	21.4
222491 2001 SJ_{234}			7 31.0 270.°72		2.°2/29.8 18	
6 30	21 6.20	−21 41.1	1.618	2.522	13.2	20.6
7 10	21 0.38	−22 22.9	1.550	2.514	9.4	20.4
7 20	20 52.27	−23 8.8	1.504	2.505	5.2	20.1
7 30	20 42.72	−23 52.7	1.485	2.497	2.2	19.9
8 9	20 32.90	−24 29.0	1.491	2.488	5.4	20.1
8 19	20 24.04	−24 53.6	1.523	2.480	9.7	20.3
8 29	20 17.24	−25 4.9	1.577	2.471	13.7	20.5
9 8	20 13.21	−25 3.2	1.652	2.463	17.0	20.8
489817 2008 DM_{86}			7 31.0 53.°01		4.°0/28.7 18	
6 30	21 6.27	−28 39.3	1.984	2.884	11.4	21.5
7 10	20 59.98	−29 11.4	1.932	2.890	8.2	21.3
7 20	20 51.84	−29 39.5	1.903	2.896	5.2	21.1
7 30	20 42.66	−29 58.8	1.901	2.903	4.0	21.1
8 9	20 33.49	−30 5.8	1.926	2.909	5.9	21.2
8 19	20 25.32	−29 59.1	1.976	2.916	9.0	21.4
8 29	20 18.99	−29 39.3	2.051	2.923	11.9	21.6
9 8	20 15.03	−29 8.4	2.146	2.930	14.5	21.8
493808 2015 VV_{67}			7 31.0 213.°19		18.°7/10.7 17	
6 30	21 7.14	+19 28.1	1.261	2.012	24.8	21.2
7 10	21 1.54	+21 11.6	1.201	2.009	22.9	21.0
7 20	20 53.13	+22 15.4	1.154	2.006	21.0	20.9
7 30	20 42.82	+22 30.2	1.122	2.002	19.4	20.7
8 9	20 32.00	+21 52.4	1.107	1.998	18.7	20.7
8 19	20 22.22	+20 25.0	1.110	1.994	19.1	20.7
8 29	20 14.88	+18 17.9	1.130	1.989	20.4	20.8
9 8	20 10.93	+15 46.1	1.167	1.983	22.4	20.9
264801 2002 OW_{29}			7 31.0 305.°17		3.°0/ 1.6 17	
6 30	21 3.08	− 9 58.2	1.321	2.216	16.2	20.7
7 10	20 58.68	−10 14.3	1.233	2.188	12.2	20.4
7 20	20 51.64	−10 49.2	1.165	2.160	7.5	20.0
7 30	20 42.69	−11 40.6	1.121	2.132	3.3	19.7
8 9	20 33.04	−12 43.4	1.100	2.104	5.2	19.8
8 19	20 24.11	−13 50.6	1.102	2.076	10.4	20.0
8 29	20 17.32	−14 55.3	1.127	2.049	15.6	20.2
9 8	20 13.69	−15 51.5	1.170	2.023	20.1	20.4
169902 2002 RL_{207}			7 31.0 68.°35		1.°7/30.0 18	
6 30	21 5.41	−21 34.5	1.831	2.731	12.1	19.9
7 10	20 59.47	−22 3.4	1.773	2.735	8.5	19.7
7 20	20 51.62	−22 34.8	1.738	2.739	4.6	19.5
7 30	20 42.66	−23 4.0	1.730	2.743	1.7	19.3
8 9	20 33.64	−23 26.9	1.749	2.747	4.6	19.5
8 19	20 25.55	−23 40.7	1.794	2.751	8.5	19.7
8 29	20 19.30	−23 44.3	1.863	2.755	12.0	20.0
9 8	20 15.45	−23 38.1	1.952	2.760	14.9	20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
266232 2006 XO_{17}			7 31.0 166.°80		1.°4/30.2 17	
	h m	° ′			°	m
6 30	21 7.96	−20 31.5	1.863	2.758	12.2	21.3
7 10	21 1.26	−21 2.0	1.802	2.761	8.6	21.1
7 20	20 52.58	−21 35.8	1.764	2.765	4.6	20.8
7 30	20 42.76	−22 8.2	1.754	2.767	1.4	20.6
8 9	20 32.83	−22 34.9	1.771	2.770	4.4	20.8
8 19	20 23.84	−22 53.0	1.814	2.772	8.4	21.1
8 29	20 16.73	−23 1.1	1.883	2.773	12.0	21.3
9 8	20 12.07	−22 59.6	1.972	2.774	15.0	21.5
190614 2000 VJ_{54}			7 31.0 287.°06		0.°7/31.4 18	
6 30	21 5.93	−15 49.3	1.704	2.597	13.3	19.5
7 10	21 0.19	−15 56.2	1.616	2.574	9.6	19.2
7 20	20 52.22	−16 10.8	1.551	2.550	5.4	18.9
7 30	20 42.75	−16 30.4	1.512	2.527	0.9	18.6
8 9	20 32.84	−16 51.0	1.499	2.503	4.2	18.7
8 19	20 23.65	−17 9.3	1.512	2.479	8.9	19.0
8 29	20 16.30	−17 22.4	1.549	2.455	13.1	19.2
9 8	20 11.56	−17 28.9	1.607	2.431	16.8	19.4
159140 2004 XJ_{21}			7 31.0 209.°92		1.°3/29.9 18	
6 30	21 1.97	−20 58.1	2.622	3.514	9.2	20.5
7 10	20 56.67	−21 36.0	2.552	3.511	6.5	20.4
7 20	20 50.00	−22 16.3	2.508	3.508	3.5	20.2
7 30	20 42.52	−22 55.8	2.492	3.505	1.3	20.0
8 9	20 34.91	−23 31.0	2.504	3.501	3.6	20.2
8 19	20 27.87	−23 59.4	2.544	3.497	6.5	20.3
8 29	20 22.04	−24 19.5	2.611	3.494	9.3	20.5
9 8	20 17.91	−24 30.8	2.700	3.490	11.7	20.7
469910 2005 YW_{49}			7 31.0 216.°10		0.°3/30.9 17	
6 30	21 5.42	−16 38.5	2.156	3.042	11.2	22.6
7 10	20 59.37	−17 19.4	2.078	3.034	8.0	22.4
7 20	20 51.58	−18 7.3	2.026	3.025	4.3	22.1
7 30	20 42.68	−18 58.1	2.001	3.016	0.4	21.8
8 9	20 33.54	−19 47.5	2.004	3.006	3.7	22.0
8 19	20 25.04	−20 31.5	2.035	2.995	7.5	22.3
8 29	20 18.04	−21 7.4	2.092	2.984	10.9	22.5
9 8	20 13.14	−21 33.8	2.171	2.972	13.8	22.6
218531 2004 TA_{358}			7 31.0 266.°06		10.°8/ 9.7 18	
6 30	21 1.17	+20 6.7	2.748	3.424	14.2	20.3
7 10	20 56.19	+20 58.8	2.657	3.406	13.1	20.1
7 20	20 49.81	+21 29.4	2.584	3.389	12.0	20.0
7 30	20 42.52	+21 35.3	2.531	3.371	11.2	19.9
8 9	20 34.94	+21 15.6	2.499	3.353	10.8	19.9
8 19	20 27.77	+20 31.2	2.491	3.335	11.1	19.9
8 29	20 21.67	+19 25.7	2.504	3.316	12.0	19.9
9 8	20 17.18	+18 4.6	2.538	3.298	13.1	20.0
513961 2014 EB_{194}			7 31.0 240.°53		0.°6/31.4 18	
6 30	21 6.12	−15 16.9	2.215	3.095	11.2	22.6
7 10	20 59.87	−15 33.5	2.127	3.079	8.0	22.3
7 20	20 51.87	−15 56.8	2.064	3.061	4.5	22.1
7 30	20 42.73	−16 24.2	2.029	3.043	0.8	21.8
8 9	20 33.29	−16 52.4	2.022	3.024	3.4	22.0
8 19	20 24.45	−17 18.2	2.043	3.005	7.3	22.2
8 29	20 17.05	−17 39.4	2.090	2.985	10.7	22.4
9 8	20 11.71	−17 54.4	2.159	2.964	13.8	22.5
136856 1998 FA_{6}			7 31.0 126.°47		5.°1/27.6 18	
6 30	21 7.27	−32 49.6	2.230	3.122	10.6	20.2
7 10	21 0.62	−33 33.4	2.178	3.128	8.0	20.0
7 20	20 52.18	−34 10.7	2.151	3.134	5.8	19.9
7 30	20 42.74	−34 36.3	2.151	3.139	5.2	19.9
8 9	20 33.29	−34 46.8	2.178	3.145	6.7	20.0
8 19	20 24.78	−34 41.0	2.231	3.150	9.2	20.1
8 29	20 18.03	−34 20.0	2.308	3.155	11.7	20.3
9 8	20 13.57	−33 46.3	2.405	3.160	13.9	20.5
373790 2002 UQ_{41}			7 31.0 298.°94		1.°3/30.4 18	
6 30	21 4.91	−18 33.5	1.403	2.312	14.6	20.7
7 10	20 59.92	−19 16.4	1.321	2.287	10.4	20.4
7 20	20 52.28	−20 9.2	1.260	2.263	5.7	20.0
7 30	20 42.78	−21 5.8	1.224	2.238	1.3	19.7
8 9	20 32.70	−21 59.2	1.212	2.214	5.4	19.9
8 19	20 23.44	−22 43.1	1.225	2.190	10.7	20.1
8 29	20 16.39	−23 13.7	1.259	2.166	15.5	20.3
9 8	20 12.47	−23 29.6	1.312	2.142	19.6	20.5
407731 2011 UP_{338}			7 31.0 237.°44		1.°2/31.6 17	
6 30	21 8.21	−14 31.5	1.328	2.227	15.9	21.4
7 10	21 2.06	−14 42.3	1.263	2.223	11.5	21.1
7 20	20 53.29	−15 4.4	1.220	2.219	6.5	20.9
7 30	20 42.87	−15 34.0	1.200	2.214	1.5	20.5
8 9	20 32.17	−16 5.7	1.205	2.209	4.8	20.7
8 19	20 22.64	−16 34.8	1.235	2.205	10.1	21.0
8 29	20 15.50	−16 57.8	1.287	2.199	14.8	21.3
9 8	20 11.53	−17 12.6	1.358	2.194	18.7	21.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
471704 2012 TH_{263}			7 31.0 354.°92		6.°2/29.2 16	
	h m	° ′			°	m
6 30	21 10.26	−32 2.4	1.240	2.153	15.7	20.4
7 10	21 3.72	−32 6.2	1.185	2.148	11.7	20.1
7 20	20 54.18	−31 59.2	1.151	2.144	7.9	19.9
7 30	20 42.94	−31 34.7	1.140	2.141	6.2	19.8
8 9	20 31.74	−30 49.2	1.152	2.139	8.5	19.9
8 19	20 22.23	−29 44.1	1.187	2.138	12.5	20.2
8 29	20 15.69	−28 23.9	1.244	2.139	16.5	20.4
9 8	20 12.73	−26 54.3	1.318	2.140	20.0	20.6
428539 2008 BF_{49}			7 31.0 233.°52		1.°6/30.2 17	
6 30	21 9.57	−21 5.4	1.793	2.687	12.7	22.2
7 10	21 2.65	−21 31.0	1.715	2.674	9.0	21.9
7 20	20 53.50	−21 59.8	1.661	2.661	4.9	21.6
7 30	20 42.90	−22 26.9	1.634	2.647	1.6	21.4
8 9	20 31.99	−22 47.9	1.634	2.633	4.8	21.6
8 19	20 21.94	−22 59.7	1.661	2.618	9.1	21.8
8 29	20 13.85	−23 1.0	1.712	2.602	13.0	22.0
9 8	20 8.44	−22 52.2	1.784	2.586	16.3	22.2
362372 2010 NG_{50}			7 31.0 251.°94		5.°3/ 4.6 18	
6 30	21 0.41	+ 0 23.3	2.290	3.120	12.6	21.0
7 10	20 55.68	+ 0 12.6	2.213	3.117	10.2	20.8
7 20	20 49.53	− 0 15.5	2.158	3.114	7.6	20.7
7 30	20 42.51	− 1 0.4	2.128	3.111	5.6	20.6
8 9	20 35.32	− 1 59.3	2.124	3.107	5.5	20.5
8 19	20 28.69	− 3 8.2	2.148	3.104	7.4	20.7
8 29	20 23.31	− 4 22.1	2.198	3.101	9.9	20.8
9 8	20 19.67	− 5 36.1	2.271	3.098	12.5	21.0
288033 2003 UB_{242}			7 31.0 302.°93		2.°8/29.3 18	
6 30	21 4.43	−22 53.8	1.697	2.603	12.6	20.4
7 10	20 59.09	−23 44.4	1.628	2.593	8.9	20.1
7 20	20 51.59	−24 38.3	1.583	2.584	5.1	19.9
7 30	20 42.71	−25 29.2	1.563	2.574	2.8	19.7
8 9	20 33.57	−26 11.3	1.570	2.565	5.6	19.9
8 19	20 25.31	−26 40.6	1.602	2.555	9.6	20.1
8 29	20 18.98	−26 55.2	1.657	2.546	13.4	20.3
9 8	20 15.28	−26 55.7	1.732	2.538	16.6	20.5
358939 2008 HS_{62}			7 31.0 33.°96		7.°6/23.7 18	
6 30	21 4.90	−33 42.2	1.829	2.731	12.0	19.0
7 10	20 59.53	−36 13.2	1.792	2.742	9.4	18.9
7 20	20 51.87	−38 37.1	1.781	2.753	7.7	18.8
7 30	20 42.75	−40 43.1	1.798	2.764	8.0	18.8
8 9	20 33.32	−42 23.0	1.840	2.776	9.9	19.0
8 19	20 24.83	−43 33.3	1.907	2.789	12.4	19.2
8 29	20 18.39	−44 14.4	1.995	2.801	14.8	19.4
9 8	20 14.72	−44 30.1	2.101	2.814	16.8	19.6
280546 2004 RJ_{138}			7 31.0 272.°56		7.°9/ 4.7 18	
6 30	21 3.54	+ 3 1.0	1.868	2.691	15.3	20.5
7 10	20 58.32	+ 3 26.7	1.777	2.670	12.8	20.2
7 20	20 51.16	+ 3 31.5	1.706	2.650	10.2	20.0
7 30	20 42.69	+ 3 13.5	1.659	2.628	8.2	19.9
8 9	20 33.79	+ 2 33.5	1.636	2.607	8.1	19.8
8 19	20 25.46	+ 1 34.9	1.638	2.585	10.0	19.9
8 29	20 18.65	+ 0 23.3	1.665	2.563	12.8	20.0
9 8	20 14.09	− 0 54.2	1.713	2.541	15.8	20.2
290046 2005 QX_{45}			7 31.1 241.°53		7.°8/27.4 18	
6 30	21 13.96	−36 54.1	1.642	2.533	13.8	20.4
7 10	21 6.02	−37 36.9	1.585	2.529	10.8	20.2
7 20	20 55.34	−38 7.5	1.550	2.524	8.4	20.0
7 30	20 43.08	−38 17.8	1.540	2.519	7.9	20.0
8 9	20 30.77	−38 3.2	1.556	2.514	9.6	20.1
8 19	20 19.93	−37 23.8	1.595	2.509	12.5	20.3
8 29	20 11.78	−36 23.4	1.656	2.504	15.5	20.4
9 8	20 6.96	−35 7.9	1.736	2.499	18.2	20.6
146029 2000 DK_{65}			7 31.1 83.°74		1.°4/30.3 17	
6 30	21 8.24	−19 53.9	1.511	2.413	14.1	19.9
7 10	21 1.63	−20 26.4	1.466	2.429	9.9	19.7
7 20	20 52.83	−21 3.2	1.444	2.445	5.3	19.5
7 30	20 42.83	−21 38.8	1.447	2.461	1.4	19.2
8 9	20 32.90	−22 7.9	1.477	2.477	4.9	19.5
8 19	20 24.24	−22 27.3	1.532	2.493	9.3	19.8
8 29	20 17.81	−22 35.9	1.610	2.509	13.2	20.1
9 8	20 14.17	−22 33.8	1.708	2.524	16.4	20.4
390197 2012 WV_{26}			7 31.1 300.°36		2.°5/29.4 18	
6 30	21 4.02	−22 8.3	1.754	2.658	12.3	20.7
7 10	20 58.74	−23 2.7	1.686	2.650	8.7	20.4
7 20	20 51.39	−24 1.1	1.641	2.642	4.9	20.2
7 30	20 42.72	−24 57.3	1.623	2.634	2.5	20.0
8 9	20 33.80	−25 45.6	1.630	2.626	5.4	20.2
8 19	20 25.72	−26 21.6	1.664	2.618	9.3	20.4
8 29	20 19.50	−26 43.4	1.721	2.610	13.0	20.6
9 8	20 15.79	−26 51.1	1.798	2.603	16.1	20.8

473235 2015 *LO* 7 31.1 10°.68 6°.8/ 5.1 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 0.65	+ 1 25.5	1.582	2.429	16.5	20.5
7 10	20 56.32	+ 1 11.0	1.517	2.430	13.4	20.3
7 20	20 50.05	+ 0 30.9	1.471	2.431	10.1	20.1
7 30	20 42.60	− 0 34.0	1.447	2.433	7.4	20.0
8 9	20 34.96	− 1 59.2	1.449	2.436	7.1	20.0
8 19	20 28.15	− 3 37.6	1.475	2.439	9.4	20.1
8 29	20 23.10	− 5 20.8	1.525	2.442	12.6	20.3
9 8	20 20.44	− 7 0.9	1.597	2.446	15.8	20.5

187333 2005 UQ_{96} 7 31.1 143°.06 4°.2/27.6 18

6 30	21 4.58	−29 57.5	2.437	3.331	9.7	20.6
7 10	20 58.66	−30 54.1	2.382	3.336	7.2	20.4
7 20	20 51.14	−31 47.1	2.353	3.341	4.9	20.3
7 30	20 42.70	−32 31.7	2.352	3.346	4.2	20.3
8 9	20 34.17	−33 3.9	2.378	3.350	5.8	20.4
8 19	20 26.38	−33 21.8	2.431	3.354	8.3	20.5
8 29	20 20.09	−33 25.2	2.508	3.358	10.8	20.7
9 8	20 15.80	−33 15.6	2.606	3.362	12.9	20.9

333660 2008 ST_{161} 7 31.1 8°.02 2°.1/ 1.2 16

6 30	20 56.39	−11 51.9	0.929	1.855	18.4	19.2
7 10	20 54.09	−12 17.6	0.886	1.857	13.4	19.0
7 20	20 49.10	−13 3.2	0.860	1.862	7.8	18.7
7 30	20 42.52	−14 3.4	0.854	1.868	2.5	18.4
8 9	20 35.85	−15 9.5	0.870	1.877	5.2	18.6
8 19	20 30.55	−16 12.8	0.906	1.888	10.8	18.9
8 29	20 27.82	−17 6.0	0.962	1.901	15.8	19.3
9 8	20 28.30	−17 44.9	1.035	1.916	20.0	19.6

255162 2005 UL_{190} 7 31.1 165°.97 0°.7/30.6 18

6 30	21 3.03	−19 1.5	2.541	3.429	9.6	21.6
7 10	20 57.42	−19 28.8	2.475	3.432	6.8	21.5
7 20	20 50.43	−19 59.4	2.434	3.434	3.6	21.3
7 30	20 42.65	−20 30.4	2.422	3.436	0.7	21.0
8 9	20 34.77	−20 58.6	2.438	3.438	3.2	21.2
8 19	20 27.52	−21 21.6	2.482	3.440	6.4	21.4
8 29	20 21.53	−21 38.0	2.552	3.441	9.3	21.6
9 8	20 17.29	−21 47.0	2.645	3.442	11.7	21.8

506943 2008 HL_6 7 31.1 8°.91 1°.3/30.5 17

6 30	21 3.24	−19 23.8	1.092	2.015	16.5	20.6
7 10	20 58.80	−19 48.0	1.044	2.017	11.7	20.3
7 20	20 51.60	−20 19.3	1.015	2.019	6.3	20.0
7 30	20 42.78	−20 51.7	1.008	2.023	1.3	19.7
8 9	20 33.87	−21 18.6	1.024	2.028	5.7	20.0
8 19	20 26.39	−21 35.5	1.062	2.034	11.0	20.4
8 29	20 21.56	−21 40.2	1.121	2.041	15.8	20.7
9 8	20 20.04	−21 32.7	1.197	2.050	19.7	20.9

450346 2004 TD_{307} 7 31.1 0°.50 14°.4/12.9 17

6 30	20 59.40	+21 2.4	1.873	2.580	19.1	20.2
7 10	20 55.35	+22 11.3	1.808	2.578	17.7	20.1
7 20	20 49.52	+22 49.1	1.759	2.577	16.3	20.0
7 30	20 42.58	+22 51.3	1.726	2.577	15.1	19.9
8 9	20 35.41	+22 16.8	1.713	2.578	14.5	19.8
8 19	20 28.95	+21 8.1	1.719	2.579	14.5	19.9
8 29	20 24.05	+19 31.3	1.745	2.581	15.3	19.9
9 8	20 21.35	+17 35.4	1.790	2.584	16.6	20.0

342674 2008 VE_{35} 7 31.1 231°.56 11°.4/ 7.8 16

6 30	21 3.76	+13 16.3	2.001	2.754	16.7	20.8
7 10	20 58.32	+14 20.0	1.928	2.751	14.9	20.7
7 20	20 51.11	+14 58.9	1.874	2.748	13.1	20.5
7 30	20 42.77	+15 9.3	1.841	2.744	11.8	20.4
8 9	20 34.18	+14 50.5	1.830	2.741	11.4	20.4
8 19	20 26.23	+14 4.9	1.842	2.737	12.1	20.4
8 29	20 19.80	+12 57.6	1.877	2.733	13.6	20.5
9 8	20 15.50	+11 36.3	1.931	2.729	15.4	20.7

249614 1999 TT_4 7 31.1 263°.12 9°.7/21.1 18

6 30	21 16.81	−53 14.3	2.812	3.626	10.9	21.0
7 10	21 7.90	−54 19.4	2.747	3.601	10.1	20.9
7 20	20 56.41	−55 8.0	2.705	3.576	9.7	20.9
7 30	20 43.29	−55 33.6	2.687	3.550	9.9	20.8
8 9	20 29.90	−55 32.4	2.692	3.523	10.8	20.9
8 19	20 17.61	−55 4.2	2.719	3.496	12.1	20.9
8 29	20 7.64	−54 11.7	2.767	3.469	13.5	21.0
9 8	20 0.72	−53 0.2	2.832	3.441	14.8	21.1

264028 2009 QV_{13} 7 31.1 191°.95 4°.2/ 3.9 18

6 30	21 0.25	− 2 1.7	2.585	3.421	11.2	20.4
7 10	20 55.45	− 2 11.0	2.509	3.420	8.8	20.3
7 20	20 49.41	− 2 34.2	2.456	3.419	6.4	20.1
7 30	20 42.60	− 3 10.3	2.429	3.419	4.5	20.0
8 9	20 35.68	− 3 57.1	2.430	3.418	4.6	20.0
8 19	20 29.25	− 4 51.2	2.458	3.416	6.5	20.1
8 29	20 23.93	− 5 48.9	2.514	3.415	8.9	20.3
9 8	20 20.17	− 6 46.2	2.592	3.414	11.3	20.4

296324 2009 ES_{15} 7 31.1 256°.90 3°.2/ 2.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 2.82	− 7 10.5	2.078	2.942	12.4	21.6
7 10	20 57.62	− 7 24.5	1.994	2.929	9.5	21.4
7 20	20 50.73	− 7 52.3	1.933	2.916	6.2	21.1
7 30	20 42.76	− 8 32.1	1.898	2.903	3.5	20.9
8 9	20 34.51	− 9 20.8	1.891	2.890	4.2	21.0
8 19	20 26.85	−10 14.2	1.910	2.876	7.4	21.1
8 29	20 20.60	−11 8.1	1.956	2.863	10.8	21.3
9 8	20 16.37	−11 58.6	2.023	2.849	13.8	21.5

80248 1999 WL_7 7 31.1 261°.60 1°.9/ 1.0 18

6 30	21 7.08	−12 35.1	1.682	2.566	13.9	20.6
7 10	21 1.05	−12 41.7	1.597	2.548	10.2	20.3
7 20	20 52.77	−12 59.3	1.534	2.529	6.0	20.0
7 30	20 42.97	−13 25.4	1.496	2.509	2.1	19.7
8 9	20 32.73	−13 56.4	1.486	2.489	4.3	19.8
8 19	20 23.23	−14 28.1	1.501	2.468	8.9	20.0
8 29	20 15.58	−14 56.9	1.540	2.447	13.1	20.2
9 8	20 10.58	−15 20.0	1.600	2.426	16.8	20.4

444716 2007 ES_{194} 7 31.1 253°.60 0°.1/31.1 18

6 30	21 2.43	−16 26.8	2.394	3.280	10.2	21.4
7 10	20 57.16	−16 51.8	2.315	3.270	7.3	21.2
7 20	20 50.40	−17 22.7	2.262	3.261	4.0	21.0
7 30	20 42.72	−17 56.4	2.236	3.251	0.4	20.7
8 9	20 34.87	−18 29.7	2.239	3.241	3.2	20.9
8 19	20 27.58	−18 59.7	2.269	3.232	6.6	21.1
8 29	20 21.58	−19 24.2	2.325	3.222	9.8	21.3
9 8	20 17.39	−19 41.7	2.404	3.211	12.5	21.5

95498 2002 EG_{35} 7 31.1 30°.46 1°.4/ 1.3 18

6 30	21 0.70	−10 12.5	1.980	2.860	12.3	18.8
7 10	20 56.10	−11 15.1	1.916	2.865	8.9	18.6
7 20	20 49.87	−12 31.1	1.875	2.870	5.2	18.4
7 30	20 42.67	−13 56.2	1.862	2.875	1.7	18.2
8 9	20 35.33	−15 24.3	1.876	2.881	3.4	18.3
8 19	20 28.67	−16 49.7	1.918	2.886	7.2	18.5
8 29	20 23.48	−18 7.3	1.986	2.893	10.7	18.8
9 8	20 20.31	−19 13.7	2.077	2.899	13.6	19.0

180211 2003 TE_5 7 31.1 290°.73 5°.0/28.4 18

6 30	21 7.62	−26 23.5	1.370	2.283	14.5	19.9
7 10	21 2.02	−27 27.7	1.297	2.264	10.6	19.6
7 20	20 53.53	−28 33.5	1.247	2.244	6.7	19.3
7 30	20 43.06	−29 31.7	1.220	2.225	5.0	19.2
8 9	20 32.06	−30 14.1	1.218	2.206	8.0	19.3
8 19	20 22.11	−30 35.5	1.240	2.187	12.4	19.5
8 29	20 14.69	−30 35.1	1.282	2.168	16.7	19.7
9 8	20 10.70	−30 15.4	1.341	2.150	20.4	19.9

253740 2003 WC_{42} 7 31.1 317°.49 0°.1/31.0 18

6 30	21 2.35	−15 54.2	1.143	2.060	16.4	20.0
7 10	20 58.50	−16 31.6	1.065	2.035	11.9	19.7
7 20	20 51.74	−17 24.1	1.007	2.010	6.6	19.3
7 30	20 42.89	−18 26.3	0.971	1.986	0.6	18.8
8 9	20 33.37	−19 30.0	0.958	1.963	5.6	19.1
8 19	20 24.77	−20 27.2	0.967	1.941	11.6	19.4
8 29	20 18.68	−21 11.8	0.996	1.919	17.0	19.6
9 8	20 16.13	−21 40.7	1.042	1.899	21.7	19.8

37497 1330 $T\text{-}_2$ 7 31.1 224°.01 0°.1/31.0 18

6 30	21 8.25	−16 55.0	1.533	2.430	14.3	19.2
7 10	21 1.93	−17 18.6	1.464	2.424	10.2	18.9
7 20	20 53.22	−17 50.3	1.418	2.418	5.5	18.6
7 30	20 43.02	−18 25.5	1.397	2.412	0.5	18.2
8 9	20 32.54	−18 59.1	1.402	2.406	4.6	18.5
8 19	20 23.08	−19 26.8	1.433	2.399	9.4	18.8
8 29	20 15.76	−19 45.9	1.488	2.392	13.7	19.0
9 8	20 11.32	−19 55.3	1.562	2.384	17.3	19.3

5502 Brashear 7 31.1 65°.89 5°.9/28.5 18

6 30	21 11.62	−32 42.4	1.637	2.535	13.4	16.8
7 10	21 4.05	−33 12.3	1.595	2.548	10.0	16.6
7 20	20 54.17	−33 33.1	1.575	2.561	7.0	16.4
7 30	20 43.09	−33 38.6	1.581	2.575	5.9	16.4
8 9	20 32.19	−33 25.4	1.612	2.588	7.8	16.6
8 19	20 22.75	−32 53.6	1.669	2.601	10.8	16.8
8 29	20 15.77	−32 6.2	1.748	2.615	13.9	17.0
9 8	20 11.74	−31 7.3	1.847	2.628	16.6	17.2

386829 2010 GG_{161} 7 31.1 114°.91 2°.2/29.5 18

6 30	21 5.04	−21 51.1	1.967	2.865	11.5	20.5
7 10	20 59.19	−22 49.1	1.912	2.874	8.1	20.3
7 20	20 51.54	−23 49.9	1.883	2.882	4.5	20.1
7 30	20 42.84	−24 47.8	1.880	2.891	2.2	19.9
8 9	20 34.06	−25 37.7	1.905	2.899	4.8	20.1
8 19	20 26.13	−26 16.0	1.957	2.908	8.3	20.4
8 29	20 19.91	−26 41.3	2.033	2.916	11.6	20.6
9 8	20 15.95	−26 53.6	2.130	2.923	14.3	20.8

80988 2000 EK_{19} 7 31.1 216°.45 0°.7/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 7.01	−17 49.7	1.875	2.767	12.3	20.4
7 10	21 0.76	−18 28.5	1.802	2.760	8.8	20.2
7 20	20 52.49	−19 14.0	1.752	2.752	4.7	19.9
7 30	20 42.95	−20 1.6	1.729	2.744	0.7	19.6
8 9	20 33.15	−20 46.2	1.734	2.735	4.2	19.9
8 19	20 24.13	−21 23.9	1.766	2.726	8.4	20.1
8 29	20 16.87	−21 51.9	1.823	2.716	12.1	20.3
9 8	20 12.03	−22 9.3	1.900	2.706	15.3	20.5

331537 2000 SR_{314} 7 31.1 315°.50 8°.2/ 2.9 18

6 30	21 5.61	− 1 52.5	1.487	2.344	16.8	19.6
7 10	21 0.13	− 0 38.6	1.409	2.329	13.7	19.4
7 20	20 52.32	+ 0 18.4	1.351	2.313	10.6	19.1
7 30	20 42.95	+ 0 54.7	1.317	2.299	8.5	19.0
8 9	20 33.16	+ 1 9.3	1.306	2.285	8.8	19.0
8 19	20 24.20	+ 1 3.9	1.318	2.271	11.3	19.1
8 29	20 17.20	+ 0 42.5	1.353	2.258	14.7	19.2
9 8	20 12.99	+ 0 11.5	1.407	2.245	18.1	19.4

270357 2001 YA_{51} 7 31.1 93°.37 0°.9/31.6 17

6 30	21 6.97	−15 8.0	1.671	2.562	13.6	20.5
7 10	21 0.66	−15 15.3	1.615	2.571	9.7	20.3
7 20	20 52.36	−15 30.6	1.583	2.581	5.4	20.1
7 30	20 42.93	−15 50.6	1.576	2.591	1.2	19.8
8 9	20 33.48	−16 11.5	1.596	2.600	4.0	20.1
8 19	20 25.07	−16 30.3	1.643	2.610	8.3	20.3
8 29	20 18.61	−16 44.3	1.713	2.619	12.1	20.6
9 8	20 14.67	−16 52.3	1.805	2.628	15.3	20.8

471577 2012 RV_{2} 7 31.1 256°.14 3°.1/29.5 18

6 30	21 10.30	−26 26.7	1.924	2.819	11.9	21.1
7 10	21 3.13	−26 42.5	1.846	2.804	8.6	20.9
7 20	20 53.79	−26 55.9	1.792	2.788	5.1	20.6
7 30	20 43.09	−27 2.0	1.764	2.772	3.1	20.5
8 9	20 32.14	−26 57.1	1.764	2.756	5.5	20.6
8 19	20 22.09	−26 39.9	1.791	2.739	9.2	20.8
8 29	20 13.99	−26 10.7	1.842	2.722	12.7	21.0
9 8	20 8.51	−25 31.7	1.915	2.705	15.8	21.1

517132 2013 HG_{117} 7 31.1 217°.60 4°.0/ 3.5 18

6 30	21 1.51	− 2 52.0	2.722	3.557	10.7	22.7
7 10	20 56.34	− 2 56.3	2.637	3.549	8.4	22.5
7 20	20 49.91	− 3 13.1	2.576	3.541	6.0	22.4
7 30	20 42.70	− 3 41.8	2.542	3.533	4.2	22.2
8 9	20 35.32	− 4 20.4	2.536	3.524	4.3	22.2
8 19	20 28.40	− 5 6.1	2.558	3.515	6.3	22.4
8 29	20 22.53	− 5 55.5	2.607	3.505	8.8	22.5
9 8	20 18.19	− 6 45.2	2.679	3.495	11.1	22.6

500125 2012 CB_{14} 7 31.1 134°.80 0°.5/30.8 17

6 30	21 8.90	−17 47.3	1.586	2.482	13.9	22.3
7 10	21 2.16	−18 15.8	1.531	2.491	9.9	22.0
7 20	20 53.23	−18 50.7	1.499	2.499	5.3	21.8
7 30	20 43.02	−19 27.3	1.492	2.507	0.6	21.5
8 9	20 32.76	−20 0.3	1.512	2.515	4.5	21.8
8 19	20 23.62	−20 26.1	1.559	2.522	9.0	22.1
8 29	20 16.61	−20 42.6	1.629	2.529	13.0	22.3
9 8	20 12.36	−20 49.3	1.719	2.535	16.3	22.6

180167 2003 HP_{10} 7 31.1 114°.67 0°.2/31.2 18

6 30	21 3.02	−15 27.4	2.493	3.374	10.0	20.6
7 10	20 57.39	−16 5.1	2.438	3.390	7.1	20.4
7 20	20 50.44	−16 48.5	2.408	3.406	3.8	20.2
7 30	20 42.75	−17 34.6	2.406	3.421	0.5	20.0
8 9	20 35.02	−18 19.7	2.433	3.436	3.0	20.2
8 19	20 27.95	−19 0.8	2.489	3.450	6.2	20.4
8 29	20 22.15	−19 35.6	2.571	3.464	9.0	20.7
9 8	20 18.08	−20 2.9	2.676	3.478	11.5	20.8

470293 2007 EF_{224} 7 31.1 319°.07 9°.9/ 6.2 16

6 30	21 1.37	+ 5 46.3	1.519	2.345	18.1	20.7
7 10	20 57.05	+ 6 15.6	1.444	2.334	15.4	20.5
7 20	20 50.62	+ 6 17.2	1.387	2.324	12.6	20.3
7 30	20 42.78	+ 5 48.4	1.350	2.313	10.4	20.1
8 9	20 34.59	+ 4 50.3	1.336	2.303	10.0	20.1
8 19	20 27.17	+ 3 28.1	1.346	2.294	11.5	20.2
8 29	20 21.57	+ 1 49.9	1.377	2.285	14.3	20.3
9 8	20 18.54	+ 0 5.4	1.429	2.277	17.3	20.5

251657 1994 AH_{8} 7 31.1 164°.55 0°.1/31.2 18

6 30	21 1.91	−16 13.5	2.695	3.577	9.3	22.0
7 10	20 56.60	−16 39.0	2.627	3.580	6.6	21.9
7 20	20 50.02	−17 9.6	2.584	3.583	3.6	21.7
7 30	20 42.71	−17 42.5	2.570	3.585	0.4	21.4
8 9	20 35.31	−18 14.9	2.584	3.587	2.8	21.6
8 19	20 28.45	−18 44.2	2.627	3.589	5.9	21.8
8 29	20 22.76	−19 8.6	2.697	3.591	8.7	22.0
9 8	20 18.66	−19 26.9	2.790	3.592	11.0	22.2

512624 2016 TZ_{41} 7 31.1 221°.94 3°.3/28.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 6.05	−26 31.6	2.150	3.047	10.7	22.0
7 10	20 59.90	−27 10.4	2.084	3.042	7.7	21.8
7 20	20 51.94	−27 47.8	2.043	3.038	4.7	21.6
7 30	20 42.90	−28 19.0	2.028	3.033	3.3	21.5
8 9	20 33.72	−28 40.0	2.042	3.029	5.3	21.6
8 19	20 25.34	−28 48.7	2.082	3.024	8.5	21.8
8 29	20 18.61	−28 44.6	2.146	3.018	11.5	22.0
9 8	20 14.10	−28 29.0	2.232	3.013	14.1	22.1

198154 2004 TJ_{55} 7 31.1 277°.80 1°.0/30.5 18

6 30	21 5.40	−18 53.8	1.752	2.651	12.7	20.6
7 10	20 59.82	−19 27.6	1.672	2.634	9.0	20.3
7 20	20 52.09	−20 7.7	1.616	2.617	4.9	20.0
7 30	20 42.94	−20 49.6	1.585	2.599	1.0	19.7
8 9	20 33.43	−21 28.1	1.581	2.582	4.5	19.9
8 19	20 24.67	−21 59.0	1.603	2.564	8.9	20.2
8 29	20 17.74	−22 19.8	1.648	2.547	12.9	20.4
9 8	20 13.37	−22 29.6	1.715	2.529	16.4	20.6

479132 2013 BM_{39} 7 31.1 102°.83 0°.6/31.6 18

6 30	21 2.42	−13 42.3	2.143	3.027	11.3	21.4
7 10	20 57.20	−14 23.9	2.081	3.034	8.1	21.2
7 20	20 50.43	−15 14.3	2.044	3.041	4.5	21.0
7 30	20 42.76	−16 9.7	2.034	3.048	0.9	20.7
8 9	20 34.99	−17 5.7	2.051	3.055	3.3	20.9
8 19	20 27.91	−17 58.3	2.097	3.062	6.9	21.2
8 29	20 22.26	−18 44.3	2.168	3.068	10.2	21.4
9 8	20 18.56	−19 21.6	2.261	3.075	12.9	21.6

121299 1999 RL_{202} 7 31.1 297°.71 4°.6/ 2.9 18

6 30	21 1.82	− 4 36.5	2.107	2.962	12.7	19.6
7 10	20 56.92	− 4 23.6	2.019	2.944	9.9	19.4
7 20	20 50.38	− 4 24.5	1.954	2.927	7.0	19.2
7 30	20 42.78	− 4 39.2	1.914	2.910	4.8	19.0
8 9	20 34.89	− 5 5.8	1.900	2.892	5.1	19.0
8 19	20 27.55	− 5 41.3	1.913	2.875	7.7	19.2
8 29	20 21.56	− 6 22.1	1.952	2.858	10.8	19.3
9 8	20 17.53	− 7 3.8	2.012	2.841	13.7	19.5

300790 2007 VF_{318} 7 31.1 346°.66 0°.6/31.4 18

6 30	21 5.05	−16 2.2	1.764	2.658	12.9	21.0
7 10	20 59.34	−16 5.8	1.698	2.656	9.2	20.8
7 20	20 51.70	−16 16.3	1.656	2.654	5.1	20.5
7 30	20 42.90	−16 30.7	1.638	2.653	0.9	20.2
8 9	20 33.97	−16 45.7	1.648	2.652	3.9	20.5
8 19	20 25.93	−16 58.5	1.684	2.651	8.1	20.7
8 29	20 19.68	−17 6.8	1.744	2.650	11.9	20.9
9 8	20 15.84	−17 9.4	1.825	2.650	15.1	21.2

252843 2002 GB_{125} 7 31.1 129°.83 1°.9/29.7 18

6 30	21 4.67	−23 29.1	2.420	3.313	9.9	21.1
7 10	20 58.65	−23 55.1	2.361	3.320	6.9	20.9
7 20	20 51.16	−24 21.3	2.328	3.326	3.9	20.7
7 30	20 42.84	−24 44.2	2.322	3.333	1.9	20.6
8 9	20 34.49	−25 0.8	2.344	3.339	4.0	20.7
8 19	20 26.86	−25 9.2	2.395	3.345	7.0	20.9
8 29	20 20.66	−25 8.7	2.470	3.351	9.9	21.1
9 8	20 16.35	−24 59.9	2.569	3.357	12.3	21.3

511590 2015 AV_{30} 7 31.1 75°.11 1°.1/31.7 17

6 30	21 7.61	−14 28.1	1.462	2.357	14.9	20.9
7 10	21 1.25	−14 40.2	1.415	2.373	10.7	20.7
7 20	20 52.71	−15 2.0	1.391	2.389	6.0	20.5
7 30	20 43.00	−15 29.8	1.391	2.405	1.4	20.2
8 9	20 33.33	−15 58.8	1.417	2.421	4.3	20.5
8 19	20 24.90	−16 25.0	1.469	2.437	8.9	20.8
8 29	20 18.66	−16 45.7	1.543	2.453	12.9	21.1
9 8	20 15.17	−16 59.1	1.638	2.469	16.3	21.3

252076 2000 SL_{284} 7 31.1 300°.69 3°.5/ 1.4 18

6 30	21 7.04	−11 21.0	1.292	2.186	16.5	20.3
7 10	21 1.42	−10 55.8	1.219	2.173	12.4	20.1
7 20	20 53.12	−10 43.3	1.167	2.161	7.7	19.8
7 30	20 43.07	−10 42.7	1.138	2.148	3.7	19.5
8 9	20 32.60	−10 51.4	1.133	2.135	5.5	19.6
8 19	20 23.18	−11 5.6	1.152	2.123	10.4	19.8
8 29	20 16.11	−11 21.7	1.192	2.112	15.1	20.0
9 8	20 12.24	−11 35.8	1.251	2.100	19.3	20.3

356367 2010 MQ_{79} 7 31.1 16°.21 2°.9/29.9 18

6 30	21 9.81	−27 1.5	1.817	2.715	12.3	20.0
7 10	21 2.61	−26 51.5	1.758	2.717	8.8	19.8
7 20	20 53.38	−26 37.2	1.723	2.721	5.2	19.6
7 30	20 43.07	−26 15.0	1.715	2.724	2.9	19.4
8 9	20 32.82	−25 42.9	1.734	2.728	5.2	19.6
8 19	20 23.73	−25 1.1	1.779	2.732	8.8	19.8
8 29	20 16.70	−24 11.0	1.849	2.737	12.3	20.1
9 8	20 12.28	−23 15.1	1.940	2.742	15.2	20.3

207487 2006 HS_{51} 7 31.1 72°.65 6°.0/ 3.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 6.64	− 3 30.9	1.743	2.595	15.0	19.7
7 10	21 0.31	− 2 46.3	1.687	2.608	11.8	19.5
7 20	20 52.15	− 2 17.9	1.654	2.621	8.6	19.4
7 30	20 42.95	− 2 6.4	1.645	2.634	6.3	19.3
8 9	20 33.73	− 2 10.5	1.662	2.647	6.5	19.3
8 19	20 25.47	− 2 27.2	1.704	2.660	9.0	19.5
8 29	20 19.01	− 2 52.5	1.771	2.673	12.0	19.7
9 8	20 14.90	− 3 21.6	1.859	2.686	14.8	19.9

380281 2002 AW_{142} 7 31.1 178°.51 0°.5/31.4 18

6 30	21 6.19	−15 35.3	1.866	2.754	12.5	21.3
7 10	21 0.08	−15 54.3	1.800	2.755	9.0	21.1
7 20	20 52.08	−16 20.9	1.757	2.756	4.9	20.8
7 30	20 42.96	−16 51.4	1.741	2.756	0.8	20.5
8 9	20 33.69	−17 22.0	1.753	2.756	3.8	20.8
8 19	20 25.27	−17 49.3	1.791	2.756	7.9	21.0
8 29	20 18.59	−18 10.6	1.854	2.755	11.6	21.2
9 8	20 14.24	−18 24.7	1.938	2.754	14.7	21.5

478816 2012 VB_{11} 7 31.1 254°.06 3°.9/ 2.6 18

6 30	21 3.97	− 6 0.2	2.041	2.899	12.9	22.3
7 10	20 58.50	− 6 2.0	1.954	2.884	9.9	22.1
7 20	20 51.27	− 6 17.9	1.890	2.869	6.7	21.9
7 30	20 42.89	− 6 47.0	1.851	2.853	4.2	21.7
8 9	20 34.20	− 7 26.7	1.840	2.837	4.7	21.7
8 19	20 26.10	− 8 13.3	1.856	2.820	7.7	21.8
8 29	20 19.43	− 9 2.4	1.897	2.803	11.1	22.0
9 8	20 14.85	− 9 50.1	1.961	2.786	14.2	22.2

349215 2007 RG_{312} 7 31.1 322°.86 4°.0/28.8 18

6 30	21 4.96	−25 48.7	1.573	2.484	13.1	20.5
7 10	20 59.70	−26 38.1	1.507	2.473	9.5	20.3
7 20	20 52.08	−27 27.9	1.464	2.462	5.8	20.0
7 30	20 42.98	−28 11.1	1.445	2.452	4.0	19.9
8 9	20 33.61	−28 41.7	1.452	2.442	6.6	20.1
8 19	20 25.23	−28 56.3	1.483	2.433	10.6	20.3
8 29	20 18.98	−28 53.9	1.536	2.424	14.3	20.5
9 8	20 15.57	−28 36.3	1.609	2.416	17.6	20.7

143908 2003 YR_{65} 7 31.1 141°.30 1°.9/ 1.0 17

6 30	21 8.12	−13 11.1	1.581	2.468	14.4	20.1
7 10	21 1.63	−13 6.7	1.520	2.472	10.5	19.8
7 20	20 52.99	−13 12.3	1.480	2.476	6.1	19.6
7 30	20 43.06	−13 25.3	1.467	2.479	2.2	19.4
8 9	20 33.03	−13 42.3	1.479	2.483	4.3	19.5
8 19	20 24.04	−13 59.9	1.518	2.486	8.7	19.8
8 29	20 17.12	−14 15.3	1.580	2.488	12.8	20.0
9 8	20 12.87	−14 26.3	1.663	2.491	16.2	20.3

165196 2000 RD_{19} 7 31.1 347°.05 6°.1/ 2.4 18

6 30	21 0.85	− 7 53.8	0.947	1.858	19.6	18.4
7 10	20 57.47	− 7 10.8	0.888	1.847	15.2	18.1
7 20	20 51.15	− 6 48.6	0.846	1.837	10.3	17.8
7 30	20 42.90	− 6 48.3	0.823	1.829	6.5	17.6
8 9	20 34.27	− 7 7.6	0.821	1.822	7.4	17.6
8 19	20 26.91	− 7 41.0	0.839	1.817	12.0	17.8
8 29	20 22.27	− 8 21.3	0.875	1.814	17.0	18.1
9 8	20 21.21	− 9 1.0	0.928	1.813	21.4	18.4

206626 2003 WM_{145} 7 31.1 318°.57 3°.5/ 2.1 18

6 30	21 2.83	− 8 38.7	1.629	2.511	14.4	20.0
7 10	20 57.98	− 8 36.3	1.554	2.500	10.9	19.7
7 20	20 51.08	− 8 48.4	1.501	2.489	7.0	19.5
7 30	20 42.88	− 9 13.8	1.472	2.479	3.8	19.3
8 9	20 34.40	− 9 49.1	1.468	2.469	4.8	19.3
8 19	20 26.70	−10 29.8	1.489	2.459	8.6	19.5
8 29	20 20.78	−11 11.5	1.534	2.450	12.6	19.7
9 8	20 17.34	−11 49.9	1.600	2.442	16.1	19.9

477169 2009 EF_{29} 7 31.1 238°.83 2°.9/29.1 18

6 30	21 6.94	−25 57.4	2.289	3.181	10.3	21.7
7 10	21 0.52	−26 32.1	2.211	3.168	7.4	21.5
7 20	20 52.32	−27 5.9	2.159	3.155	4.5	21.3
7 30	20 43.01	−27 34.4	2.134	3.141	2.9	21.1
8 9	20 33.47	−27 53.8	2.138	3.126	5.0	21.2
8 19	20 24.63	−28 1.8	2.169	3.111	8.1	21.4
8 29	20 17.33	−27 57.8	2.225	3.096	11.2	21.6
9 8	20 12.18	−27 43.0	2.302	3.080	13.8	21.7

288458 2004 EP_{76} 7 31.1 210°.72 1°.8/ 1.3 18

6 30	21 6.09	−11 11.3	1.881	2.758	13.0	21.6
7 10	21 0.08	−11 39.1	1.805	2.752	9.5	21.4
7 20	20 52.15	−12 19.1	1.753	2.746	5.6	21.2
7 30	20 43.00	−13 8.0	1.727	2.739	2.0	20.9
8 9	20 33.58	−14 1.4	1.729	2.732	3.9	21.0
8 19	20 24.90	−14 54.6	1.757	2.724	7.9	21.3
8 29	20 17.88	−15 43.4	1.812	2.715	11.7	21.5
9 8	20 13.18	−16 24.9	1.887	2.706	14.9	21.7

62891 2000 UK_{100} 7 31.1 324°.41 4°.9/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 6.89	−26 24.0	1.115	2.038	16.3	18.6
7 10	21 1.83	−27 0.6	1.051	2.022	11.8	18.3
7 20	20 53.56	−27 36.4	1.006	2.007	7.2	18.0
7 30	20 43.16	−28 2.8	0.984	1.992	4.9	17.8
8 9	20 32.33	−28 12.3	0.984	1.978	8.1	17.9
8 19	20 22.90	−28 1.5	1.005	1.965	13.1	18.1
8 29	20 16.40	−27 30.9	1.047	1.954	17.9	18.4
9 8	20 13.73	−26 44.2	1.104	1.943	22.0	18.6

148370 2000 SE_{119} 7 31.1 215°.48 4°.8/27.5 18

6 30	21 6.19	−32 6.2	2.373	3.265	10.1	20.1
7 10	20 59.95	−32 55.6	2.311	3.261	7.6	19.9
7 20	20 51.98	−33 40.0	2.274	3.257	5.4	19.8
7 30	20 42.98	−34 14.2	2.264	3.253	4.9	19.7
8 9	20 33.85	−34 34.4	2.282	3.249	6.4	19.8
8 19	20 25.49	−34 39.0	2.326	3.244	8.9	20.0
8 29	20 18.72	−34 28.3	2.393	3.239	11.4	20.1
9 8	20 14.11	−34 4.3	2.482	3.234	13.6	20.3

310682 2002 GC_{37} 7 31.1 73°.46 6°.2/28.3 17

6 30	21 12.50	−29 54.2	1.282	2.192	15.6	20.4
7 10	21 5.05	−30 58.2	1.252	2.214	11.4	20.2
7 20	20 54.86	−31 54.6	1.244	2.236	7.6	20.1
7 30	20 43.25	−32 34.6	1.259	2.258	6.3	20.1
8 9	20 31.92	−32 52.2	1.299	2.279	8.6	20.2
8 19	20 22.36	−32 46.7	1.362	2.301	12.3	20.5
8 29	20 15.72	−32 21.1	1.447	2.322	15.8	20.8
9 8	20 12.48	−31 40.0	1.549	2.343	18.7	21.1

212952 2009 BP_{40} 7 31.1 51°.19 0°.7/30.6 18

6 30	21 3.52	−17 35.0	1.883	2.779	12.1	20.0
7 10	20 58.24	−18 23.2	1.819	2.779	8.5	19.8
7 20	20 51.12	−19 18.4	1.779	2.780	4.5	19.6
7 30	20 42.90	−20 15.8	1.766	2.781	0.8	19.3
8 9	20 34.51	−21 10.0	1.780	2.782	4.1	19.5
8 19	20 26.92	−21 56.8	1.821	2.782	8.0	19.8
8 29	20 20.99	−22 33.2	1.886	2.783	11.6	20.0
9 8	20 17.31	−22 58.2	1.972	2.784	14.6	20.2

211419 2002 WS_{14} 7 31.1 308°.72 0°.9/31.8 18

6 30	21 1.73	−12 51.2	1.721	2.614	13.2	19.4
7 10	20 57.23	−13 34.2	1.639	2.596	9.6	19.2
7 20	20 50.72	−14 30.6	1.580	2.578	5.5	18.9
7 30	20 42.88	−15 36.4	1.546	2.561	1.3	18.6
8 9	20 34.65	−16 45.8	1.539	2.543	4.0	18.7
8 19	20 27.10	−17 53.0	1.558	2.527	8.4	19.0
8 29	20 21.22	−18 52.8	1.600	2.510	12.6	19.2
9 8	20 17.75	−19 41.9	1.664	2.494	16.1	19.4

161031 2002 GA_{65} 7 31.1 46°.39 1°.3/30.4 17

6 30	21 4.92	−19 4.8	1.480	2.387	14.1	19.7
7 10	20 59.44	−19 48.5	1.434	2.400	9.9	19.5
7 20	20 51.82	−20 38.0	1.411	2.413	5.3	19.3
7 30	20 42.98	−21 27.4	1.413	2.427	1.3	19.1
8 9	20 34.14	−22 10.9	1.440	2.441	4.9	19.3
8 19	20 26.46	−22 44.1	1.492	2.456	9.3	19.6
8 29	20 20.91	−23 5.1	1.567	2.471	13.2	19.9
9 8	20 18.05	−23 13.6	1.662	2.486	16.4	20.2

316499 2010 VC_{111} 7 31.1 233°.52 3°.4/ 3.0 18

6 30	21 0.93	− 5 0.4	2.447	3.298	11.2	20.8
7 10	20 56.07	− 5 17.5	2.367	3.292	8.7	20.7
7 20	20 49.85	− 5 47.7	2.311	3.287	5.9	20.5
7 30	20 42.79	− 6 29.6	2.282	3.282	3.7	20.3
8 9	20 35.57	− 7 20.4	2.281	3.276	4.0	20.3
8 19	20 28.85	− 8 16.5	2.307	3.270	6.5	20.5
8 29	20 23.31	− 9 14.0	2.360	3.264	9.3	20.7
9 8	20 19.43	−10 9.2	2.436	3.258	11.9	20.8

238669 2005 EQ_{163} 7 31.1 353°.46 0°.0/30.9 18

6 30	21 3.68	−16 34.3	1.693	2.591	13.0	20.6
7 10	20 58.49	−17 1.9	1.629	2.590	9.3	20.3
7 20	20 51.32	−17 37.3	1.588	2.588	5.0	20.1
7 30	20 42.94	−18 16.4	1.572	2.587	0.5	19.7
8 9	20 34.40	−18 54.5	1.583	2.587	4.1	20.0
8 19	20 26.75	−19 27.4	1.619	2.586	8.4	20.3
8 29	20 20.91	−19 52.4	1.680	2.586	12.3	20.5
9 8	20 17.53	−20 7.9	1.761	2.586	15.6	20.7

438118 2005 NR_{85} 7 31.1 302°.62 1°.1/30.3 17

6 30	21 2.30	−18 3.5	1.873	2.772	12.0	21.3
7 10	20 57.54	−18 59.0	1.793	2.755	8.5	21.1
7 20	20 50.86	−20 2.6	1.737	2.739	4.6	20.8
7 30	20 42.91	−21 9.4	1.708	2.723	1.1	20.5
8 9	20 34.62	−22 13.3	1.706	2.706	4.4	20.7
8 19	20 26.98	−23 9.4	1.730	2.691	8.5	20.9
8 29	20 20.96	−23 54.0	1.778	2.675	12.2	21.1
9 8	20 17.24	−24 25.6	1.847	2.660	15.5	21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
267385 2001 XS_{236}			7 31.1 342°.43		1°.9/30.3 18	
	h m	° ′			°	m
6 30	20 58.02	−20 10.8	0.953	1.889	17.0	19.1
7 10	20 55.69	−20 34.2	0.888	1.867	12.2	18.7
7 20	20 50.33	−21 6.0	0.840	1.846	6.7	18.4
7 30	20 42.89	−21 40.1	0.813	1.827	1.9	18.0
8 9	20 34.95	−22 8.5	0.806	1.810	6.5	18.2
8 19	20 28.23	−22 25.4	0.819	1.796	12.5	18.5
8 29	20 24.31	−22 27.0	0.850	1.784	17.9	18.7
9 8	20 24.13	−22 12.9	0.897	1.775	22.6	19.0
264003 2009 OC_{9}			7 31.1 327°.57		2°.5/ 1.6 18	
6 30	21 2.06	−10 49.1	1.966	2.846	12.3	19.9
7 10	20 57.16	−10 44.8	1.890	2.836	9.2	19.7
7 20	20 50.55	−10 50.8	1.836	2.827	5.7	19.4
7 30	20 42.89	−11 5.6	1.808	2.818	2.7	19.2
8 9	20 35.03	−11 26.5	1.807	2.809	3.9	19.3
8 19	20 27.84	−11 50.6	1.832	2.800	7.4	19.5
8 29	20 22.14	−12 14.7	1.882	2.792	10.9	19.7
9 8	20 18.53	−12 36.0	1.953	2.785	14.0	19.9
13257 1998 QT_{8}			7 31.1 327°.94		3°.0/29.3 18	
6 30	21 4.31	−23 13.1	1.550	2.460	13.3	17.4
7 10	20 59.24	−24 2.6	1.485	2.451	9.5	17.1
7 20	20 51.87	−24 55.1	1.442	2.443	5.4	16.9
7 30	20 43.04	−25 44.1	1.424	2.435	3.0	16.7
8 9	20 33.95	−26 23.3	1.432	2.427	6.0	16.9
8 19	20 25.83	−26 48.7	1.464	2.420	10.2	17.1
8 29	20 19.79	−26 58.5	1.518	2.413	14.1	17.3
9 8	20 16.55	−26 53.6	1.592	2.406	17.4	17.5
446497 2014 KD_{57}			7 31.1 21°.04		0°.2/30.9 18	
6 30	21 1.63	−15 39.7	1.966	2.860	11.7	20.9
7 10	20 56.84	−16 32.4	1.903	2.862	8.3	20.7
7 20	20 50.37	−17 33.6	1.865	2.865	4.5	20.4
7 30	20 42.88	−18 38.7	1.852	2.867	0.4	20.1
8 9	20 35.24	−19 42.4	1.868	2.871	3.7	20.4
8 19	20 28.33	−20 40.1	1.910	2.874	7.5	20.6
8 29	20 22.95	−21 28.3	1.977	2.877	11.0	20.9
9 8	20 19.67	−22 5.3	2.066	2.881	13.9	21.1
376137 2011 AW_{68}			7 31.1 224°.77		0°.8/31.6 18	
6 30	21 6.05	−13 59.1	1.787	2.674	13.1	21.7
7 10	21 0.19	−14 31.9	1.713	2.667	9.4	21.4
7 20	20 52.29	−15 15.3	1.661	2.659	5.3	21.2
7 30	20 43.09	−16 5.2	1.637	2.651	1.1	20.8
8 9	20 33.62	−16 56.6	1.639	2.643	3.9	21.0
8 19	20 24.92	−17 44.8	1.668	2.634	8.3	21.3
8 29	20 17.98	−18 26.0	1.722	2.625	12.2	21.5
9 8	20 13.49	−18 58.0	1.796	2.615	15.6	21.7
66668 1999 TN_{14}			7 31.1 320°.32		5°.8/ 3.6 18	
6 30	21 0.50	− 2 31.9	1.806	2.663	14.4	18.9
7 10	20 56.30	− 2 16.3	1.715	2.638	11.5	18.7
7 20	20 50.23	− 2 18.4	1.645	2.614	8.5	18.5
7 30	20 42.89	− 2 39.0	1.599	2.590	6.2	18.3
8 9	20 35.16	− 3 16.2	1.577	2.567	6.3	18.2
8 19	20 27.99	− 4 6.4	1.581	2.544	8.9	18.3
8 29	20 22.33	− 5 4.6	1.608	2.522	12.3	18.5
9 8	20 18.89	− 6 4.8	1.657	2.500	15.6	18.6
342440 2008 UR_{94}			7 31.1 291°.48		0°.3/31.3 18	
6 30	21 5.31	−16 22.0	1.686	2.582	13.2	20.9
7 10	20 59.77	−16 35.3	1.611	2.570	9.5	20.6
7 20	20 52.10	−16 56.1	1.558	2.558	5.2	20.3
7 30	20 43.08	−17 21.2	1.531	2.546	0.7	20.0
8 9	20 33.77	−17 46.3	1.530	2.534	4.1	20.2
8 19	20 25.28	−18 7.8	1.555	2.522	8.6	20.5
8 29	20 18.65	−18 23.2	1.603	2.510	12.7	20.7
9 8	20 14.58	−18 31.0	1.672	2.498	16.2	20.9
392109 2009 EN_{20}			7 31.1 174°.09		1°.0/30.4 18	
6 30	21 4.27	−19 6.6	2.055	2.949	11.3	20.9
7 10	20 58.67	−19 43.9	1.990	2.950	8.0	20.7
7 20	20 51.34	−20 25.8	1.950	2.950	4.3	20.5
7 30	20 43.00	−21 8.2	1.936	2.951	1.0	20.2
8 9	20 34.51	−21 46.7	1.951	2.951	3.9	20.5
8 19	20 26.78	−22 18.1	1.992	2.951	7.6	20.7
8 29	20 20.62	−22 40.4	2.058	2.951	11.0	20.9
9 8	20 16.58	−22 52.9	2.146	2.951	13.8	21.1
478884 2012 WB_{8}			7 31.1 212°.04		3°.7/28.3 18	
6 30	21 6.69	−28 13.2	2.376	3.268	10.0	22.3
7 10	21 0.33	−29 3.1	2.307	3.262	7.3	22.1
7 20	20 52.24	−29 50.8	2.264	3.255	4.7	21.9
7 30	20 43.09	−30 31.5	2.248	3.248	3.7	21.9
8 9	20 33.76	−31 1.0	2.260	3.240	5.5	22.0
8 19	20 25.12	−31 17.0	2.300	3.231	8.3	22.1
8 29	20 18.02	−31 19.1	2.364	3.223	11.1	22.3
9 8	20 13.01	−31 8.7	2.450	3.213	13.5	22.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
173758 2001 RF_{105}			7 31.1 27°.66		2°.1/ 1.7 18	
	h m	° ′			°	m
6 30	21 1.69	− 9 38.6	1.693	2.577	13.8	19.9
7 10	20 57.03	−10 19.1	1.633	2.582	10.1	19.7
7 20	20 50.54	−11 14.5	1.595	2.588	6.1	19.5
7 30	20 42.93	−12 21.0	1.582	2.594	2.5	19.2
8 9	20 35.19	−13 32.8	1.596	2.600	4.0	19.4
8 19	20 28.28	−14 43.9	1.635	2.606	7.9	19.6
8 29	20 23.09	−15 49.3	1.700	2.613	11.7	19.9
9 8	20 20.19	−16 45.0	1.785	2.621	15.0	20.1
221479 2006 BW_{247}			7 31.1 288°.87		0°.1/31.0 18	
6 30	21 2.19	−16 56.0	2.267	3.156	10.6	20.9
7 10	20 57.17	−17 23.6	2.184	3.141	7.5	20.7
7 20	20 50.56	−17 57.2	2.127	3.126	4.1	20.5
7 30	20 42.95	−18 33.8	2.096	3.111	0.4	20.2
8 9	20 35.11	−19 9.7	2.094	3.096	3.4	20.4
8 19	20 27.83	−19 41.7	2.118	3.081	7.0	20.6
8 29	20 21.88	−20 7.5	2.169	3.067	10.3	20.8
9 8	20 17.84	−20 25.5	2.241	3.052	13.1	20.9
192849 1999 VS_{161}			7 31.1 232°.60		6°.6/25.9 18	
6 30	21 9.90	−36 48.5	2.255	3.138	10.9	20.6
7 10	21 2.89	−37 56.1	2.189	3.126	8.6	20.5
7 20	20 53.77	−38 55.7	2.147	3.113	7.0	20.3
7 30	20 43.29	−39 40.6	2.132	3.100	6.8	20.3
8 9	20 32.53	−40 5.9	2.143	3.086	8.3	20.4
8 19	20 22.62	−40 9.8	2.179	3.072	10.6	20.5
8 29	20 14.57	−39 53.4	2.239	3.057	13.0	20.6
9 8	20 9.07	−39 20.0	2.318	3.041	15.2	20.8
160211 2002 CQ_{196}			7 31.1 128°.09		0°.1/31.1 18	
6 30	21 2.21	−15 43.3	2.219	3.106	10.8	20.6
7 10	20 57.11	−16 30.3	2.153	3.109	7.7	20.4
7 20	20 50.49	−17 24.7	2.111	3.111	4.1	20.2
7 30	20 42.94	−18 22.5	2.098	3.113	0.4	19.9
8 9	20 35.26	−19 19.2	2.112	3.115	3.4	20.1
8 19	20 28.21	−20 10.9	2.154	3.117	6.9	20.3
8 29	20 22.55	−20 54.7	2.222	3.118	10.1	20.6
9 8	20 18.79	−21 28.8	2.312	3.120	12.9	20.7
131089 2000 YY_{134}			7 31.1 251°.73		5°.5/ 2.8 18	
6 30	21 6.61	− 4 1.2	1.940	2.789	13.8	20.1
7 10	21 0.46	− 3 23.2	1.856	2.776	10.9	19.8
7 20	20 52.42	− 2 58.9	1.795	2.763	7.9	19.6
7 30	20 43.15	− 2 49.3	1.758	2.749	5.8	19.5
8 9	20 33.58	− 2 53.6	1.749	2.735	6.1	19.5
8 19	20 24.65	− 3 9.5	1.765	2.721	8.7	19.6
8 29	20 17.30	− 3 33.7	1.807	2.707	11.9	19.8
9 8	20 12.18	− 4 1.8	1.870	2.692	14.9	19.9
429775 2012 FT_{52}			7 31.1 237°.87		2°.1/ 1.4 17	
6 30	21 6.33	−10 48.7	1.597	2.481	14.5	21.5
7 10	21 0.60	−11 15.8	1.521	2.471	10.7	21.3
7 20	20 52.62	−11 57.6	1.468	2.462	6.4	21.0
7 30	20 43.18	−12 50.8	1.439	2.451	2.4	20.7
8 9	20 33.38	−13 50.0	1.437	2.441	4.4	20.8
8 19	20 24.40	−14 49.5	1.461	2.430	8.9	21.1
8 29	20 17.34	−15 44.1	1.509	2.419	13.2	21.3
9 8	20 12.96	−16 30.2	1.577	2.407	16.9	21.5
393308 2013 YQ_{124}			7 31.1 263°.63		1°.9/29.9 18	
6 30	21 5.84	−21 0.4	1.813	2.713	12.3	21.1
7 10	21 0.14	−21 45.6	1.737	2.699	8.7	20.8
7 20	20 52.32	−22 35.5	1.685	2.686	4.8	20.6
7 30	20 43.15	−23 24.6	1.659	2.672	1.9	20.4
8 9	20 33.65	−24 7.7	1.660	2.658	4.9	20.5
8 19	20 24.92	−24 40.4	1.688	2.644	9.0	20.8
8 29	20 17.99	−25 0.7	1.739	2.630	12.8	21.0
9 8	20 13.58	−25 8.3	1.811	2.615	16.0	21.1
434173 2002 TP_{170}			7 31.1 346°.72		0°.2/31.2 18	
6 30	21 5.40	−19 28.4	1.260	2.174	15.5	19.5
7 10	21 0.29	−18 55.0	1.194	2.161	11.1	19.2
7 20	20 52.55	−18 24.2	1.148	2.150	6.1	18.9
7 30	20 43.17	−17 53.9	1.125	2.140	0.7	18.5
8 9	20 33.57	−17 21.9	1.126	2.131	4.9	18.8
8 19	20 25.16	−16 47.7	1.151	2.124	10.2	19.1
8 29	20 19.20	−16 10.9	1.197	2.119	14.9	19.4
9 8	20 16.41	−15 31.7	1.262	2.115	18.9	19.6
131561 2001 VN_{42}			7 31.1 175°.97		2°.6/29.8 17	
6 30	21 9.30	−21 54.3	1.436	2.342	14.5	19.7
7 10	21 2.85	−22 42.1	1.378	2.343	10.3	19.5
7 20	20 53.86	−23 33.8	1.343	2.344	5.7	19.2
7 30	20 43.31	−24 22.3	1.332	2.344	2.6	19.1
8 9	20 32.57	−25 0.9	1.347	2.344	5.9	19.3
8 19	20 23.03	−25 25.6	1.387	2.344	10.4	19.5
8 29	20 15.88	−25 35.1	1.449	2.344	14.6	19.8
9 8	20 11.82	−25 30.5	1.531	2.343	18.1	20.0

321844 2010 RG_{110} 7 31.1 292°.18 4°.7/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 0.79	− 2 20.0	2.150	2.996	12.8	20.9
7 10	20 56.21	− 2 30.6	2.065	2.983	10.1	20.7
7 20	20 50.07	− 2 58.1	2.002	2.970	7.3	20.5
7 30	20 42.92	− 3 41.5	1.964	2.956	5.1	20.3
8 9	20 35.52	− 4 38.2	1.953	2.943	5.1	20.3
8 19	20 28.66	− 5 43.8	1.968	2.931	7.5	20.4
8 29	20 23.08	− 6 53.6	2.009	2.918	10.5	20.6
9 8	20 19.39	− 8 2.4	2.073	2.905	13.3	20.8

482937 2014 JO_{48} 7 31.1 31°.03 4°.9/27.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 5.01	−29 36.2	1.967	2.868	11.3	21.2
7 10	20 59.39	−30 43.6	1.913	2.870	8.4	21.0
7 20	20 51.83	−31 47.7	1.883	2.872	5.7	20.8
7 30	20 43.10	−32 42.0	1.879	2.874	5.0	20.8
8 9	20 34.23	−33 21.2	1.902	2.876	6.9	20.9
8 19	20 26.26	−33 42.9	1.951	2.879	9.8	21.1
8 29	20 20.10	−33 46.8	2.022	2.881	12.6	21.3
9 8	20 16.34	−33 35.0	2.114	2.884	15.1	21.5

273734 2007 EL_{106} 7 31.1 134°.56 1°.1/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 2.72	−19 37.5	2.443	3.334	9.8	20.5
7 10	20 57.36	−20 18.2	2.381	3.339	6.9	20.3
7 20	20 50.58	−21 2.4	2.344	3.344	3.7	20.1
7 30	20 42.97	−21 46.5	2.335	3.349	1.1	19.9
8 9	20 35.27	−22 26.7	2.354	3.353	3.5	20.1
8 19	20 28.20	−23 0.2	2.401	3.358	6.7	20.3
8 29	20 22.44	−23 25.2	2.475	3.362	9.6	20.5
9 8	20 18.46	−23 41.2	2.570	3.366	12.1	20.7

284878 2009 DX_{71} 7 31.1 287°.42 0°.9/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 2.60	−11 41.1	1.842	2.727	12.8	21.0
7 10	20 57.83	−12 43.5	1.755	2.708	9.4	20.7
7 20	20 51.10	−14 1.1	1.692	2.689	5.3	20.4
7 30	20 43.05	−15 29.4	1.655	2.670	1.2	20.1
8 9	20 34.57	−17 1.9	1.646	2.650	3.8	20.3
8 19	20 26.67	−18 31.9	1.664	2.631	8.2	20.5
8 29	20 20.34	−19 53.4	1.707	2.612	12.2	20.7
9 8	20 16.31	−21 2.4	1.772	2.593	15.7	20.9

426050 2012 AA_{14} 7 31.1 186°.78 0°.3/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 8.65	−16 54.8	1.702	2.593	13.4	22.1
7 10	21 2.08	−17 30.6	1.636	2.593	9.5	21.9
7 20	20 53.34	−18 14.1	1.593	2.593	5.1	21.6
7 30	20 43.27	−19 0.5	1.577	2.592	0.6	21.3
8 9	20 32.99	−19 44.5	1.587	2.590	4.3	21.6
8 19	20 23.64	−20 21.6	1.625	2.587	8.7	21.8
8 29	20 16.27	−20 49.3	1.686	2.584	12.7	22.0
9 8	20 11.53	−21 6.5	1.769	2.580	16.1	22.3

58515 1996 XY_{12} 7 31.1 256°.41 4°.2/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 4.69	−28 6.7	2.130	3.029	10.7	19.6
7 10	20 59.12	−29 15.8	2.064	3.022	7.8	19.4
7 20	20 51.69	−30 23.6	2.024	3.016	5.2	19.3
7 30	20 43.10	−31 24.0	2.011	3.009	4.3	19.2
8 9	20 34.27	−32 11.7	2.024	3.002	6.3	19.3
8 19	20 26.17	−32 43.6	2.064	2.994	9.2	19.5
8 29	20 19.70	−32 58.8	2.128	2.987	12.1	19.6
9 8	20 15.48	−32 58.4	2.212	2.980	14.6	19.8

328166 2008 CN_{196} 7 31.1 188°.02 2°.6/29.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 10.81	−23 52.8	1.613	2.512	13.5	21.3
7 10	21 3.71	−24 14.5	1.551	2.512	9.6	21.1
7 20	20 54.24	−24 36.1	1.512	2.512	5.4	20.8
7 30	20 43.38	−24 52.4	1.500	2.511	2.6	20.7
8 9	20 32.40	−24 59.0	1.513	2.510	5.5	20.8
8 19	20 22.57	−24 53.7	1.553	2.508	9.7	21.1
8 29	20 15.00	−24 36.7	1.616	2.507	13.6	21.3
9 8	20 10.32	−24 9.7	1.699	2.505	16.9	21.5

158449 2002 CF_{119} 7 31.1 65°.20 0°.3/31.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 4.70	−14 45.7	1.589	2.486	13.9	19.9
7 10	20 59.27	−15 26.5	1.535	2.494	9.9	19.7
7 20	20 51.80	−16 17.7	1.503	2.502	5.4	19.4
7 30	20 43.12	−17 14.2	1.496	2.511	0.7	19.1
8 9	20 34.35	−18 10.1	1.515	2.519	4.1	19.4
8 19	20 26.58	−19 0.4	1.560	2.528	8.6	19.7
8 29	20 20.74	−19 41.3	1.629	2.537	12.5	19.9
9 8	20 17.46	−20 11.1	1.719	2.546	15.8	20.2

44111 1998 HN_{6} 7 31.1 40°.59 1°.4/30.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 5.72	−18 24.7	1.101	2.019	16.8	18.7
7 10	21 0.49	−19 14.3	1.064	2.034	11.8	18.5
7 20	20 52.59	−20 12.3	1.047	2.051	6.3	18.2
7 30	20 43.21	−21 10.7	1.054	2.068	1.5	18.0
8 9	20 33.92	−22 1.6	1.083	2.086	5.7	18.3
8 19	20 26.17	−22 39.4	1.135	2.104	10.8	18.7
8 29	20 21.10	−23 1.8	1.209	2.123	15.4	19.0
9 8	20 19.29	−23 9.0	1.300	2.143	19.0	19.3

349311 2007 UW_{56} 7 31.1 272°.30 6°.6/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 3.00	+ 0 38.3	1.995	2.827	14.1	21.1
7 10	20 57.88	+ 1 0.3	1.912	2.815	11.6	20.9
7 20	20 51.04	+ 1 4.1	1.850	2.803	8.9	20.7
7 30	20 43.07	+ 0 48.8	1.812	2.790	6.9	20.5
8 9	20 34.82	+ 0 15.9	1.800	2.778	6.9	20.5
8 19	20 27.16	− 0 31.4	1.814	2.766	8.8	20.6
8 29	20 20.94	− 1 28.2	1.852	2.753	11.6	20.7
9 8	20 16.78	− 2 29.0	1.912	2.741	14.4	20.9

508320 2015 LL_{1} 7 31.1 116°.95 4°.6/ 3.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 2.93	− 2 17.0	1.843	2.693	14.4	21.1
7 10	20 57.83	− 2 51.5	1.776	2.698	11.2	20.9
7 20	20 50.97	− 3 46.1	1.731	2.703	7.8	20.7
7 30	20 43.06	− 4 58.5	1.711	2.708	5.1	20.6
8 9	20 34.98	− 6 23.8	1.718	2.713	5.1	20.6
8 19	20 27.65	− 7 55.6	1.751	2.718	7.9	20.7
8 29	20 21.90	− 9 27.3	1.811	2.722	11.2	21.0
9 8	20 18.33	−10 52.9	1.893	2.726	14.3	21.2

433233 2012 VK_{43} 7 31.1 353°.06 10°.1/23.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 3.42	−36 17.3	1.293	2.209	15.0	19.0
7 10	20 59.32	−38 20.7	1.248	2.203	12.1	18.8
7 20	20 52.23	−40 13.9	1.224	2.197	10.3	18.7
7 30	20 43.20	−41 44.3	1.223	2.193	10.5	18.7
8 9	20 33.84	−42 42.4	1.244	2.190	12.7	18.8
8 19	20 25.83	−43 4.8	1.285	2.188	15.7	19.0
8 29	20 20.62	−42 53.8	1.344	2.187	18.7	19.2
9 8	20 18.98	−42 15.2	1.419	2.187	21.3	19.4

251896 1999 VG_{111} 7 31.1 140°.71 5°.4/ 4.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 2.05	+ 2 12.1	2.843	3.648	11.1	20.8
7 10	20 56.67	+ 2 31.3	2.774	3.657	9.1	20.6
7 20	20 50.15	+ 2 36.7	2.728	3.666	7.1	20.5
7 30	20 42.97	+ 2 27.9	2.708	3.674	5.7	20.4
8 9	20 35.72	+ 2 6.3	2.716	3.682	5.5	20.4
8 19	20 28.96	+ 1 34.0	2.750	3.690	6.8	20.5
8 29	20 23.26	+ 0 54.3	2.811	3.697	8.6	20.7
9 8	20 19.01	+ 0 10.7	2.896	3.704	10.5	20.8

387769 2003 SK_{394} 7 31.1 248°.99 1°.5/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 4.89	−19 48.5	1.993	2.888	11.5	22.0
7 10	20 59.31	−20 37.5	1.917	2.877	8.2	21.8
7 20	20 51.84	−21 31.8	1.866	2.866	4.4	21.5
7 30	20 43.16	−22 26.6	1.842	2.855	1.5	21.3
8 9	20 34.20	−23 16.7	1.845	2.844	4.4	21.5
8 19	20 25.93	−23 58.0	1.875	2.832	8.2	21.7
8 29	20 19.27	−24 28.0	1.930	2.820	11.8	21.9
9 8	20 14.87	−24 46.1	2.007	2.808	14.8	22.1

19918 1977 PB 7 31.1 49°.92 0°.6/31.6 18 A

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 3.11	−12 5.9	1.521	2.415	14.5	16.6
7 10	20 58.21	−13 20.3	1.470	2.427	10.4	16.4
7 20	20 51.26	−14 49.3	1.441	2.439	5.8	16.2
7 30	20 43.10	−16 26.3	1.437	2.452	1.0	15.9
8 9	20 34.82	−18 3.0	1.460	2.465	4.1	16.2
8 19	20 27.53	−19 32.0	1.509	2.478	8.7	16.5
8 29	20 22.19	−20 47.8	1.582	2.491	12.7	16.7
9 8	20 19.40	−21 47.6	1.676	2.505	16.1	17.0

287165 2002 RF_{247} 7 31.1 316°.95 0°.2/31.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 3.34	−16 32.4	1.202	2.116	16.0	20.4
7 10	20 59.20	−17 0.9	1.123	2.092	11.6	20.1
7 20	20 52.22	−17 42.0	1.065	2.068	6.4	19.7
7 30	20 43.23	−18 30.6	1.029	2.044	0.7	19.2
8 9	20 33.60	−19 19.8	1.016	2.021	5.4	19.5
8 19	20 24.90	−20 2.8	1.026	1.999	11.2	19.8
8 29	20 18.62	−20 34.6	1.057	1.978	16.4	20.0
9 8	20 15.75	−20 52.9	1.105	1.958	21.0	20.2

182216 2000 WK_{163} 7 31.1 122°.83 3°.7/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 2.90	− 5 49.5	2.313	3.167	11.7	19.9
7 10	20 57.49	− 5 41.5	2.245	3.172	9.0	19.8
7 20	20 50.67	− 5 45.4	2.201	3.177	6.2	19.6
7 30	20 43.03	− 6 0.4	2.183	3.181	4.0	19.5
8 9	20 35.30	− 6 24.4	2.192	3.186	4.3	19.5
8 19	20 28.19	− 6 54.7	2.229	3.191	6.8	19.7
8 29	20 22.39	− 7 28.0	2.292	3.195	9.6	19.9
9 8	20 18.36	− 8 1.1	2.377	3.199	12.1	20.0

80284 1999 XH_{39} 7 31.1 291°.86 0°.4/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 4.55	−14 13.4	1.420	2.320	14.9	19.5
7 10	20 59.66	−14 57.5	1.343	2.304	10.8	19.2
7 20	20 52.29	−15 55.9	1.287	2.287	6.0	18.9
7 30	20 43.23	−17 3.6	1.256	2.271	0.9	18.5
8 9	20 33.68	−18 13.5	1.250	2.254	4.7	18.8
8 19	20 24.97	−19 18.6	1.268	2.238	9.9	19.0
8 29	20 18.36	−20 13.4	1.310	2.222	14.6	19.2
9 8	20 14.72	−20 54.7	1.370	2.206	18.6	19.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
207279 2005 FW_6			7 31.1 127°.85	4°.7/27.8 18		
	h m	° ′			°	m
6 30	21 7.31	−29 59.9	2.059	2.956	11.2	20.5
7 10	21 0.92	−31 0.8	2.009	2.964	8.2	20.3
7 20	20 52.63	−31 57.6	1.984	2.972	5.6	20.2
7 30	20 43.25	−32 44.0	1.985	2.979	4.8	20.2
8 9	20 33.79	−33 15.6	2.013	2.987	6.6	20.3
8 19	20 25.27	−33 30.3	2.067	2.994	9.4	20.5
8 29	20 18.57	−33 28.4	2.145	3.000	12.2	20.7
9 8	20 14.24	−33 12.0	2.243	3.007	14.5	20.9
509599 2008 EW_{13}			7 31.1 144°.19	2°.1/29.5 18		
6 30	21 4.71	−23 32.9	2.538	3.429	9.5	22.1
7 10	20 58.74	−24 12.0	2.480	3.437	6.7	22.0
7 20	20 51.33	−24 51.5	2.447	3.445	3.8	21.8
7 30	20 43.11	−25 27.6	2.443	3.453	2.1	21.7
8 9	20 34.83	−25 57.0	2.468	3.460	4.1	21.8
8 19	20 27.23	−26 17.5	2.520	3.467	6.9	22.0
8 29	20 20.98	−26 28.2	2.598	3.473	9.6	22.2
9 8	20 16.55	−26 29.2	2.699	3.480	11.9	22.4
523631 2009 SX_1			7 31.1 256°.78	3°.5/29.8 18		
6 30	21 22.11	−23 46.5	1.372	2.263	16.0	22.2
7 10	21 13.05	−24 27.0	1.273	2.230	11.7	21.9
7 20	21 0.10	−25 10.9	1.197	2.195	6.9	21.5
7 30	20 44.11	−25 49.2	1.147	2.157	3.5	21.2
8 9	20 26.78	−26 12.6	1.123	2.117	7.3	21.3
8 19	20 10.24	−26 15.8	1.126	2.075	13.1	21.5
8 29	19 56.55	−25 58.5	1.151	2.031	18.7	21.7
9 8	19 47.06	−25 24.7	1.194	1.984	23.4	21.9
471287 2011 GA_{26}			7 31.1 4°.46	5°.4/ 3.0 17		
6 30	21 3.32	− 5 15.0	1.434	2.310	16.3	21.0
7 10	20 58.48	− 4 59.2	1.372	2.309	12.7	20.8
7 20	20 51.48	− 5 2.4	1.329	2.310	8.8	20.5
7 30	20 43.14	− 5 24.2	1.310	2.310	5.8	20.4
8 9	20 34.61	− 6 1.2	1.315	2.312	6.2	20.4
8 19	20 27.05	− 6 48.5	1.345	2.314	9.5	20.6
8 29	20 21.48	− 7 40.0	1.396	2.316	13.3	20.8
9 8	20 18.58	− 8 30.1	1.468	2.319	16.8	21.1
113094 2002 RT_{72}			7 31.2 318°.65	0°.4/30.9 18		
6 30	21 4.85	−18 17.7	1.665	2.566	13.1	19.7
7 10	20 59.48	−18 32.1	1.594	2.556	9.4	19.5
7 20	20 52.00	−18 52.4	1.545	2.546	5.1	19.2
7 30	20 43.20	−19 14.6	1.522	2.537	0.6	18.8
8 9	20 34.16	−19 34.8	1.524	2.528	4.3	19.1
8 19	20 25.99	−19 49.5	1.553	2.519	8.7	19.4
8 29	20 19.71	−19 56.7	1.605	2.511	12.7	19.6
9 8	20 16.00	−19 55.6	1.677	2.503	16.2	19.8
283671 2002 PV_{163}			7 31.2 315°.23	1°.3/30.5 18		
6 30	21 7.55	−21 18.4	1.786	2.684	12.5	20.2
7 10	21 1.21	−21 24.5	1.721	2.681	8.9	20.0
7 20	20 52.85	−21 32.3	1.679	2.679	4.8	19.8
7 30	20 43.29	−21 38.3	1.663	2.677	1.3	19.5
8 9	20 33.61	−21 39.2	1.674	2.674	4.4	19.7
8 19	20 24.89	−21 33.1	1.711	2.672	8.5	20.0
8 29	20 18.09	−21 19.3	1.773	2.670	12.2	20.2
9 8	20 13.79	−20 58.3	1.855	2.668	15.4	20.4
504094 2006 DM_{78}			7 31.2 162°.69	0°.8/31.8 17		
6 30	21 5.52	−13 30.4	2.286	3.162	11.0	22.6
7 10	20 59.40	−14 1.4	2.220	3.168	7.9	22.4
7 20	20 51.74	−14 40.4	2.179	3.174	4.5	22.2
7 30	20 43.17	−15 24.2	2.165	3.179	1.1	22.0
8 9	20 34.49	−16 9.1	2.180	3.184	3.2	22.1
8 19	20 26.49	−16 51.6	2.224	3.187	6.7	22.4
8 29	20 19.90	−17 28.9	2.294	3.191	9.9	22.6
9 8	20 15.23	−17 59.2	2.387	3.193	12.6	22.8
97765 2000 JN_{27}			7 31.2 219°.09	7°.7/ 5.5 18		
6 30	21 3.56	+ 5 25.7	2.265	3.061	13.8	19.1
7 10	20 58.09	+ 6 2.1	2.185	3.056	11.7	18.9
7 20	20 51.09	+ 6 20.0	2.128	3.050	9.6	18.8
7 30	20 43.12	+ 6 17.7	2.094	3.045	8.1	18.7
8 9	20 34.93	+ 5 56.0	2.085	3.039	7.8	18.7
8 19	20 27.30	+ 5 17.2	2.102	3.033	9.0	18.7
8 29	20 20.98	+ 4 25.5	2.144	3.027	11.1	18.9
9 8	20 16.51	+ 3 26.5	2.208	3.020	13.3	19.0
344735 2003 UF_{150}			7 31.2 314°.47	7°.4/ 5.1 18		
6 30	21 0.98	+ 1 42.6	1.634	2.476	16.3	20.1
7 10	20 56.80	+ 1 45.5	1.551	2.460	13.4	19.9
7 20	20 50.61	+ 1 23.9	1.489	2.445	10.3	19.7
7 30	20 43.09	+ 0 37.0	1.449	2.431	7.9	19.5
8 9	20 35.21	− 0 32.6	1.433	2.417	7.6	19.4
8 19	20 27.99	− 1 59.2	1.442	2.403	9.8	19.5
8 29	20 22.44	− 3 35.2	1.474	2.390	13.1	19.7
9 8	20 19.30	− 5 12.3	1.528	2.377	16.4	19.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
91390 1999 KL			7 31.2 343°.38	4°.7/ 2.7 18		
	h m	° ′			°	m
6 30	20 54.03	− 7 15.2	0.986	1.901	18.6	17.6
7 10	20 52.69	− 7 26.8	0.914	1.877	14.4	17.3
7 20	20 48.71	− 8 5.3	0.860	1.854	9.5	16.9
7 30	20 42.91	− 9 10.0	0.825	1.834	5.2	16.6
8 9	20 36.58	−10 34.4	0.811	1.816	6.1	16.6
8 19	20 31.22	−12 8.9	0.816	1.801	11.2	16.8
8 29	20 28.29	−13 42.1	0.841	1.788	16.5	17.1
9 8	20 28.76	−15 4.1	0.883	1.778	21.3	17.3
265582 2005 QY_{146}			7 31.2 351°.72	1°.5/30.2 18		
6 30	21 4.00	−17 59.0	1.343	2.254	14.9	19.8
7 10	20 59.25	−19 4.2	1.284	2.252	10.6	19.6
7 20	20 52.02	−20 19.7	1.247	2.250	5.7	19.3
7 30	20 43.24	−21 38.0	1.234	2.248	1.5	19.0
8 9	20 34.19	−22 50.7	1.245	2.247	5.4	19.3
8 19	20 26.22	−23 51.0	1.281	2.246	10.3	19.6
8 29	20 20.50	−24 34.9	1.339	2.246	14.7	19.8
9 8	20 17.77	−25 1.5	1.416	2.246	18.4	20.1
513313 2007 DX_{47}			7 31.2 78°.62	3°.0/ 2.7 18		
6 30	21 1.13	− 6 30.4	2.275	3.135	11.7	21.1
7 10	20 56.30	− 6 56.4	2.208	3.141	8.8	20.9
7 20	20 50.08	− 7 35.6	2.166	3.147	5.8	20.7
7 30	20 43.04	− 8 25.6	2.149	3.154	3.3	20.6
8 9	20 35.88	− 9 22.9	2.161	3.160	3.8	20.6
8 19	20 29.34	−10 23.4	2.200	3.167	6.5	20.8
8 29	20 24.08	−11 23.0	2.265	3.173	9.5	21.0
9 8	20 20.58	−12 18.2	2.354	3.179	12.1	21.2
171272 2006 ED_{47}			7 31.2 3°.08	4°.7/29.3 17		
6 30	21 5.38	−25 12.6	0.958	1.889	17.5	19.6
7 10	21 0.88	−25 56.9	0.912	1.887	12.6	19.3
7 20	20 53.11	−26 41.6	0.884	1.886	7.5	19.1
7 30	20 43.36	−27 17.1	0.877	1.887	4.8	18.9
8 9	20 33.49	−27 35.6	0.892	1.889	8.2	19.1
8 19	20 25.30	−27 33.3	0.927	1.892	13.3	19.4
8 29	20 20.24	−27 11.1	0.981	1.896	18.0	19.7
9 8	20 19.02	−26 32.3	1.051	1.902	22.0	20.0
358442 2007 DF_{98}			7 31.2 11°.55	2°.8/29.6 18		
6 30	21 6.26	−25 47.5	2.011	2.909	11.3	20.1
7 10	21 0.14	−26 3.1	1.950	2.910	8.1	19.9
7 20	20 52.21	−26 16.8	1.914	2.912	4.7	19.7
7 30	20 43.26	−26 24.8	1.904	2.913	2.8	19.6
8 9	20 34.26	−26 23.9	1.922	2.915	4.9	19.8
8 19	20 26.17	−26 12.7	1.966	2.917	8.3	20.0
8 29	20 19.83	−25 51.3	2.034	2.919	11.5	20.2
9 8	20 15.78	−25 21.2	2.124	2.922	14.2	20.4
442595 2012 CJ_{43}			7 31.2 295°.03	5°.3/27.6 18		
6 30	21 6.88	−33 4.8	2.160	3.053	10.8	20.8
7 10	21 0.68	−33 46.3	2.095	3.044	8.2	20.6
7 20	20 52.57	−34 21.5	2.054	3.036	6.0	20.4
7 30	20 43.31	−34 45.1	2.040	3.028	5.4	20.4
8 9	20 33.90	−34 53.1	2.052	3.019	7.0	20.5
8 19	20 25.36	−34 44.0	2.090	3.011	9.6	20.6
8 29	20 18.59	−34 18.9	2.151	3.003	12.3	20.8
9 8	20 14.19	−33 40.1	2.233	2.995	14.6	20.9
392660 2011 UP_{245}			7 31.2 48°.00	5°.0/27.7 18		
6 30	21 5.66	−30 5.2	1.955	2.856	11.4	20.4
7 10	20 59.88	−31 7.1	1.903	2.860	8.5	20.3
7 20	20 52.15	−32 5.0	1.875	2.864	5.8	20.1
7 30	20 43.26	−32 52.5	1.873	2.868	5.1	20.1
8 9	20 34.27	−33 24.7	1.898	2.872	6.9	20.2
8 19	20 26.22	−33 39.5	1.948	2.876	9.8	20.4
8 29	20 20.01	−33 36.8	2.021	2.881	12.6	20.6
9 8	20 16.23	−33 19.1	2.114	2.885	15.1	20.8
440699 2005 YD_{96}			7 31.2 235°.00	0°.3/30.9 16		
6 30	21 4.37	−18 41.6	2.692	3.575	9.3	22.1
7 10	20 58.51	−18 51.1	2.610	3.564	6.6	21.9
7 20	20 51.26	−19 3.6	2.555	3.553	3.6	21.7
7 30	20 43.18	−19 16.6	2.527	3.542	0.4	21.5
8 9	20 34.94	−19 27.9	2.528	3.530	3.0	21.7
8 19	20 27.24	−19 35.6	2.559	3.518	6.1	21.8
8 29	20 20.73	−19 38.5	2.615	3.506	9.0	22.0
9 8	20 15.91	−19 36.0	2.696	3.493	11.5	22.2
244873 2003 UD_{246}			7 31.2 262°.54	2°.5/29.5 18		
6 30	21 5.05	−22 16.6	1.870	2.770	11.9	20.4
7 10	20 59.54	−23 12.2	1.801	2.763	8.4	20.2
7 20	20 52.04	−24 11.3	1.756	2.756	4.7	19.9
7 30	20 43.27	−25 8.2	1.737	2.748	2.5	19.8
8 9	20 34.25	−25 57.2	1.746	2.740	5.2	19.9
8 19	20 26.02	−26 34.3	1.781	2.733	8.9	20.1
8 29	20 19.53	−26 57.6	1.839	2.725	12.4	20.3
9 8	20 15.46	−27 7.0	1.919	2.717	15.5	20.5

175562 Ajsingh 7 31.2 72°.48 6°.0/26.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 6.34	−32 44.9	1.975	2.873	11.5	20.1
7 10	21 0.42	−34 0.3	1.925	2.877	8.7	19.9
7 20	20 52.47	−35 9.7	1.901	2.881	6.5	19.8
7 30	20 43.31	−36 5.9	1.902	2.886	6.1	19.8
8 9	20 34.03	−36 44.0	1.929	2.890	7.8	19.9
8 19	20 25.69	−37 1.6	1.981	2.895	10.4	20.1
8 29	20 19.27	−36 59.5	2.056	2.899	13.1	20.2
9 8	20 15.35	−36 40.3	2.150	2.904	15.4	20.4

291010 2005 XN_{115} 7 31.2 170°.58 0°.3/31.4 17

6 30	21 6.82	−16 3.2	1.914	2.801	12.3	21.3
7 10	21 0.59	−16 22.9	1.849	2.804	8.8	21.1
7 20	20 52.51	−16 49.4	1.807	2.806	4.8	20.8
7 30	20 43.33	−17 19.3	1.793	2.807	0.7	20.5
8 9	20 34.01	−17 48.6	1.805	2.809	3.7	20.8
8 19	20 25.53	−18 14.2	1.845	2.810	7.7	21.0
8 29	20 18.77	−18 33.7	1.910	2.810	11.3	21.2
9 8	20 14.29	−18 45.9	1.997	2.810	14.4	21.5

131055 2000 YP_{54} 7 31.2 271°.41 0°.6/30.8 18

6 30	21 5.72	−17 50.6	1.878	2.771	12.2	20.1
7 10	21 0.10	−18 26.2	1.792	2.750	8.7	19.9
7 20	20 52.41	−19 9.2	1.729	2.729	4.7	19.6
7 30	20 43.33	−19 55.1	1.693	2.708	0.7	19.2
8 9	20 33.85	−20 39.1	1.684	2.686	4.2	19.5
8 19	20 25.01	−21 16.7	1.702	2.664	8.5	19.7
8 29	20 17.84	−21 45.2	1.744	2.641	12.4	19.9
9 8	20 13.07	−22 3.1	1.807	2.619	15.8	20.0

92810 2000 QN_{166} 7 31.2 89°.51 1°.5/30.6 18

6 30	21 11.09	−22 15.9	1.644	2.541	13.4	19.1
7 10	21 3.71	−22 14.1	1.591	2.551	9.5	18.9
7 20	20 54.19	−22 12.6	1.562	2.562	5.2	18.6
7 30	20 43.51	−22 7.8	1.558	2.572	1.5	18.4
8 9	20 32.88	−21 56.8	1.581	2.582	4.6	18.7
8 19	20 23.50	−21 38.4	1.631	2.592	8.9	18.9
8 29	20 16.30	−21 12.9	1.705	2.601	12.7	19.2
9 8	20 11.85	−20 41.4	1.799	2.611	15.8	19.4

239095 2006 HE_{39} 7 31.2 356°.60 0°.6/30.8 18

6 30	21 4.15	−17 22.1	1.672	2.572	13.1	20.5
7 10	20 58.95	−18 2.2	1.609	2.571	9.3	20.3
7 20	20 51.73	−18 50.0	1.569	2.570	5.0	20.0
7 30	20 43.26	−19 40.7	1.555	2.570	0.7	19.7
8 9	20 34.61	−20 28.7	1.567	2.570	4.3	20.0
8 19	20 26.85	−21 9.4	1.605	2.570	8.6	20.3
8 29	20 20.95	−21 40.0	1.666	2.570	12.5	20.5
9 8	20 17.53	−21 59.2	1.748	2.570	15.8	20.7

491666 2012 TY_{304} 7 31.2 299°.04 1°.3/30.4 18

6 30	21 4.99	−18 52.4	1.631	2.533	13.2	22.0
7 10	20 59.92	−19 35.5	1.541	2.504	9.5	21.7
7 20	20 52.48	−20 27.0	1.473	2.474	5.2	21.3
7 30	20 43.36	−21 21.9	1.430	2.445	1.3	21.0
8 9	20 33.65	−22 13.8	1.414	2.415	5.0	21.2
8 19	20 24.59	−22 57.2	1.423	2.385	9.7	21.4
8 29	20 17.40	−23 28.6	1.455	2.356	14.2	21.6
9 8	20 12.97	−23 46.4	1.506	2.326	18.0	21.8

435124 2007 EC_{52} 7 31.2 110°.95 3°.6/29.4 17

6 30	21 11.89	−27 15.8	1.773	2.669	12.7	21.5
7 10	21 4.21	−27 39.3	1.725	2.683	9.1	21.3
7 20	20 54.43	−27 59.1	1.701	2.696	5.5	21.2
7 30	20 43.54	−28 9.9	1.703	2.709	3.6	21.1
8 9	20 32.74	−28 8.4	1.733	2.722	5.8	21.2
8 19	20 23.19	−27 53.5	1.789	2.735	9.3	21.5
8 29	20 15.82	−27 26.4	1.869	2.747	12.6	21.7
9 8	20 11.16	−26 49.6	1.970	2.759	15.4	21.9

455030 2015 TO_{339} 7 31.2 321°.28 7°.3/24.8 18

6 30	21 3.87	−34 50.3	1.893	2.795	11.7	19.8
7 10	20 59.06	−36 31.1	1.827	2.775	9.3	19.6
7 20	20 51.97	−38 6.9	1.784	2.757	7.6	19.5
7 30	20 43.33	−39 28.8	1.767	2.739	7.6	19.5
8 9	20 34.25	−40 29.8	1.774	2.721	9.5	19.5
8 19	20 25.95	−41 6.0	1.806	2.704	12.1	19.7
8 29	20 19.56	−41 17.2	1.859	2.687	14.9	19.8
9 8	20 15.90	−41 6.1	1.929	2.671	17.3	20.0

278328 2007 HX_{60} 7 31.2 66°.12 1°.6/30.2 17

6 30	21 6.58	−19 20.3	1.516	2.420	14.0	20.2
7 10	21 0.65	−20 15.1	1.475	2.439	9.8	20.0
7 20	20 52.60	−21 15.1	1.457	2.458	5.2	19.8
7 30	20 43.37	−22 14.0	1.464	2.478	1.6	19.6
8 9	20 34.19	−23 5.3	1.497	2.497	4.9	19.9
8 19	20 26.19	−23 44.9	1.555	2.516	9.2	20.2
8 29	20 20.33	−24 10.8	1.637	2.536	13.0	20.5
9 8	20 17.15	−24 23.2	1.739	2.555	16.1	20.7

205197 2000 EX_{81} 7 31.2 153°.60 5°.8/27.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 10.34	−35 16.7	2.250	3.135	10.8	20.8
7 10	21 3.03	−36 3.7	2.199	3.141	8.4	20.7
7 20	20 53.81	−36 42.3	2.173	3.147	6.4	20.6
7 30	20 43.53	−37 6.9	2.173	3.152	5.9	20.5
8 9	20 33.23	−37 14.1	2.200	3.157	7.3	20.6
8 19	20 23.92	−37 3.1	2.254	3.161	9.6	20.8
8 29	20 16.49	−36 35.5	2.331	3.165	12.0	21.0
9 8	20 11.48	−35 54.4	2.428	3.169	14.1	21.1

183064 2002 QO_{119} 7 31.2 98°.70 0°.6/30.9 17

6 30	21 9.07	−18 2.4	1.509	2.408	14.4	20.6
7 10	21 2.45	−18 30.3	1.461	2.421	10.1	20.4
7 20	20 53.61	−19 4.4	1.434	2.435	5.4	20.2
7 30	20 43.51	−19 39.7	1.433	2.448	0.7	19.9
8 9	20 33.43	−20 11.0	1.459	2.461	4.5	20.2
8 19	20 24.55	−20 34.7	1.509	2.474	9.1	20.5
8 29	20 17.89	−20 48.8	1.584	2.487	13.1	20.7
9 8	20 14.03	−20 53.0	1.678	2.499	16.4	21.0

475876 2007 CD_{36} 7 31.2 166°.74 0°.1/31.1 18

6 30	21 3.07	−16 52.8	2.633	3.515	9.5	22.4
7 10	20 57.59	−17 22.2	2.565	3.518	6.7	22.2
7 20	20 50.79	−17 56.5	2.523	3.521	3.6	22.0
7 30	20 43.22	−18 32.6	2.509	3.524	0.4	21.7
8 9	20 35.54	−19 7.6	2.524	3.526	2.9	21.9
8 19	20 28.43	−19 38.7	2.567	3.528	6.1	22.2
8 29	20 22.51	−20 4.0	2.637	3.529	8.9	22.3
9 8	20 18.25	−20 22.6	2.730	3.531	11.3	22.5

43511 Cima Ekar 7 31.2 154°.75 0°.4/31.5 18

6 30	21 2.85	−15 27.9	2.530	3.411	9.9	20.3
7 10	20 57.46	−15 51.4	2.463	3.414	7.1	20.1
7 20	20 50.73	−16 20.6	2.421	3.418	3.9	19.9
7 30	20 43.21	−16 52.9	2.407	3.421	0.6	19.7
8 9	20 35.60	−17 25.2	2.421	3.425	2.9	19.9
8 19	20 28.57	−17 54.9	2.464	3.427	6.1	20.1
8 29	20 22.78	−18 19.9	2.533	3.430	9.0	20.3
9 8	20 18.68	−18 38.9	2.626	3.433	11.5	20.5

257028 2008 FM_{35} 7 31.2 357°.95 4°.9/28.5 18

6 30	21 7.18	−30 41.4	1.874	2.774	11.9	20.3
7 10	21 1.02	−31 14.0	1.817	2.773	8.8	20.1
7 20	20 52.82	−31 41.2	1.783	2.772	6.0	19.9
7 30	20 43.44	−31 57.3	1.774	2.772	4.9	19.9
8 9	20 33.99	−31 58.6	1.792	2.771	6.8	20.0
8 19	20 25.58	−31 43.8	1.835	2.772	9.8	20.2
8 29	20 19.13	−31 14.0	1.902	2.772	12.8	20.4
9 8	20 15.23	−30 31.9	1.989	2.773	15.5	20.6

10881 1996 VA_5 7 31.2 41°.05 8°.6/ 5.7 18

6 30	21 3.08	+ 2 53.4	1.433	2.275	18.2	17.2
7 10	20 58.25	+ 3 16.0	1.381	2.287	14.9	17.0
7 20	20 51.37	+ 3 11.7	1.348	2.299	11.7	16.9
7 30	20 43.29	+ 2 39.8	1.337	2.312	9.1	16.8
8 9	20 35.13	+ 1 43.6	1.348	2.326	8.7	16.8
8 19	20 27.99	+ 0 29.5	1.383	2.340	10.6	16.9
8 29	20 22.82	− 0 54.4	1.441	2.354	13.5	17.1
9 8	20 20.21	− 2 19.7	1.519	2.369	16.4	17.4

428535 2008 BW_3 7 31.2 284°.53 2°.5/29.7 18

6 30	21 6.57	−20 35.7	1.401	2.310	14.5	21.4
7 10	21 1.30	−21 37.1	1.326	2.292	10.4	21.1
7 20	20 53.34	−22 46.9	1.272	2.274	5.8	20.8
7 30	20 43.53	−23 57.6	1.243	2.256	2.5	20.5
8 9	20 33.17	−25 0.7	1.240	2.238	6.1	20.7
8 19	20 23.72	−25 49.7	1.260	2.220	11.1	20.9
8 29	20 16.54	−26 21.3	1.303	2.201	15.6	21.1
9 8	20 12.55	−26 35.3	1.363	2.183	19.5	21.4

19831 2000 SV_{225} 7 31.2 40°.15 9°.3/25.3 18

6 30	21 7.62	−35 23.1	1.331	2.241	15.0	17.1
7 10	21 2.04	−37 20.3	1.303	2.256	11.8	17.0
7 20	20 53.61	−39 5.0	1.297	2.271	9.6	16.9
7 30	20 43.53	−40 25.6	1.314	2.287	9.6	16.9
8 9	20 33.44	−41 14.9	1.354	2.303	11.5	17.1
8 19	20 24.91	−41 31.3	1.415	2.320	14.4	17.3
8 29	20 19.19	−41 18.1	1.496	2.338	17.2	17.5
9 8	20 16.88	−40 41.6	1.593	2.355	19.6	17.8

442041 2010 RA_{10} 7 31.2 298°.26 5°.3/27.9 18

6 30	21 8.03	−32 8.0	1.996	2.891	11.5	21.4
7 10	21 1.76	−32 44.6	1.918	2.871	8.7	21.2
7 20	20 53.33	−33 15.6	1.865	2.850	6.2	21.0
7 30	20 43.52	−33 34.9	1.837	2.829	5.4	20.9
8 9	20 33.42	−33 38.3	1.836	2.809	7.2	21.0
8 19	20 24.18	−33 23.8	1.860	2.788	10.1	21.1
8 29	20 16.83	−32 52.4	1.907	2.768	13.2	21.3
9 8	20 12.06	−32 6.9	1.975	2.748	15.9	21.4

449977 2015 PU_{44} 7 31.2 317.°68 5.°8/27.7 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 7.05	−32 49.7	1.911	2.809	11.8	21.0
7 10	21 1.06	−33 34.1	1.846	2.799	9.0	20.8
7 20	20 52.92	−34 12.0	1.805	2.789	6.5	20.6
7 30	20 43.47	−34 37.3	1.790	2.779	5.8	20.5
8 9	20 33.85	−34 45.4	1.800	2.770	7.6	20.6
8 19	20 25.18	−34 34.8	1.835	2.760	10.4	20.8
8 29	20 18.49	−34 6.3	1.893	2.752	13.4	21.0
9 8	20 14.41	−33 23.2	1.971	2.743	16.0	21.1

472834 2015 FX_{220} 7 31.2 45.°47 1.°7/30.3 17

6 30	21 5.63	−19 46.2	1.435	2.343	14.3	20.4
7 10	21 0.16	−20 32.1	1.388	2.354	10.1	20.2
7 20	20 52.43	−21 23.5	1.364	2.366	5.4	20.0
7 30	20 43.42	−22 14.1	1.364	2.377	1.7	19.8
8 9	20 34.37	−22 57.7	1.389	2.390	5.1	20.0
8 19	20 26.51	−23 29.9	1.439	2.402	9.6	20.3
8 29	20 20.85	−23 48.9	1.512	2.415	13.6	20.6
9 8	20 17.98	−23 54.6	1.604	2.428	16.9	20.8

153216 2000 YR_{19} 7 31.2 193.°24 6.°3/25.0 18

6 30	21 7.89	−40 27.1	2.903	3.772	9.1	21.0
7 10	21 1.19	−41 30.3	2.849	3.770	7.5	20.9
7 20	20 52.83	−42 24.5	2.820	3.767	6.4	20.8
7 30	20 43.47	−43 4.5	2.818	3.764	6.4	20.8
8 9	20 33.96	−43 27.2	2.842	3.761	7.5	20.9
8 19	20 25.15	−43 31.5	2.892	3.757	9.1	21.0
8 29	20 17.85	−43 18.3	2.966	3.753	10.9	21.1
9 8	20 12.59	−42 50.4	3.059	3.748	12.5	21.2

135836 2002 SX_{9} 7 31.2 20.°99 1.°6/30.2 18

6 30	21 4.95	−20 27.8	1.797	2.697	12.3	19.5
7 10	20 59.44	−21 5.1	1.736	2.699	8.7	19.2
7 20	20 51.99	−21 46.4	1.699	2.700	4.7	19.0
7 30	20 43.38	−22 26.9	1.687	2.701	1.6	18.8
8 9	20 34.64	−23 1.8	1.703	2.702	4.5	19.0
8 19	20 26.78	−23 27.6	1.744	2.704	8.5	19.3
8 29	20 20.71	−23 42.6	1.810	2.706	12.1	19.5
9 8	20 17.05	−23 46.5	1.896	2.708	15.1	19.7

440583 2005 UA_{489} 7 31.2 314.°17 5.°6/ 3.4 15

6 30	21 2.73	− 3 5.1	1.949	2.800	13.7	21.2
7 10	20 57.78	− 2 36.1	1.868	2.788	10.9	21.0
7 20	20 51.09	− 2 22.2	1.809	2.776	8.0	20.8
7 30	20 43.29	− 2 24.2	1.774	2.764	5.9	20.6
8 9	20 35.23	− 2 40.7	1.766	2.752	6.0	20.6
8 19	20 27.79	− 3 9.0	1.782	2.741	8.4	20.7
8 29	20 21.81	− 3 45.1	1.824	2.730	11.4	20.9
9 8	20 17.93	− 4 24.4	1.887	2.720	14.4	21.1

130786 2000 TH_{16} 7 31.2 233.°74 1.°7/ 1.4 18

6 30	21 5.63	−11 15.3	2.320	3.188	11.2	21.2
7 10	20 59.68	−11 36.0	2.230	3.173	8.2	21.0
7 20	20 52.08	−12 6.5	2.165	3.156	4.9	20.8
7 30	20 43.41	−12 44.4	2.128	3.139	1.9	20.6
8 9	20 34.44	−13 26.6	2.119	3.122	3.4	20.6
8 19	20 25.99	−14 9.5	2.139	3.103	6.8	20.8
8 29	20 18.85	−14 49.9	2.185	3.084	10.2	21.0
9 8	20 13.62	−15 25.2	2.254	3.064	13.1	21.2

185350 2006 VQ_{61} 7 31.2 69.°06 0.°2/31.3 18

6 30	21 4.07	−16 23.5	2.059	2.948	11.5	20.8
7 10	20 58.59	−16 42.8	1.994	2.950	8.2	20.6
7 20	20 51.45	−17 8.2	1.953	2.952	4.5	20.4
7 30	20 43.34	−17 36.6	1.939	2.954	0.6	20.1
8 9	20 35.11	−18 4.6	1.952	2.956	3.4	20.3
8 19	20 27.62	−18 29.0	1.993	2.958	7.2	20.6
8 29	20 21.66	−18 47.7	2.058	2.960	10.6	20.8
9 8	20 17.77	−18 59.4	2.146	2.962	13.5	21.0

7560 Spudis 7 31.2 299.°38 6.°8/31.9 18

6 30	21 16.55	−11 19.3	1.015	1.910	19.9	16.4
7 10	21 8.94	− 9 19.5	0.946	1.898	15.4	16.1
7 20	20 57.72	− 7 25.2	0.896	1.885	10.4	15.8
7 30	20 44.06	− 5 41.8	0.869	1.873	7.0	15.6
8 9	20 29.84	− 4 14.5	0.865	1.860	8.8	15.6
8 19	20 17.10	− 3 6.8	0.884	1.849	13.8	15.9
8 29	20 7.57	− 2 18.5	0.923	1.837	19.0	16.1
9 8	20 2.24	− 1 45.6	0.978	1.826	23.5	16.4

134558 1999 RW_{173} 7 31.2 308.°47 4.°7/28.9 18

6 30	21 7.21	−25 38.5	1.238	2.155	15.4	19.9
7 10	21 2.26	−26 29.3	1.157	2.126	11.3	19.6
7 20	20 54.12	−27 23.0	1.097	2.096	6.9	19.2
7 30	20 43.68	−28 10.6	1.059	2.067	4.8	19.0
8 9	20 32.46	−28 43.4	1.045	2.038	8.0	19.1
8 19	20 22.20	−28 55.6	1.053	2.010	13.1	19.3
8 29	20 14.61	−28 45.8	1.082	1.982	18.0	19.5
9 8	20 10.76	−28 16.5	1.126	1.955	22.3	19.7

24210 Handsberry 7 31.2 319.°90 3.°0/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 5.80	−23 47.7	1.695	2.600	12.7	18.0
7 10	21 0.24	−24 34.7	1.632	2.596	9.0	17.7
7 20	20 52.52	−25 23.4	1.593	2.592	5.2	17.5
7 30	20 43.47	−26 7.8	1.579	2.588	3.0	17.4
8 9	20 34.23	−26 42.4	1.591	2.585	5.7	17.5
8 19	20 25.93	−27 3.7	1.629	2.581	9.5	17.7
8 29	20 19.59	−27 10.4	1.689	2.578	13.2	18.0
9 8	20 15.87	−27 3.6	1.770	2.575	16.3	18.2

513705 2012 CA_{44} 7 31.2 72.°35 3.°4/ 2.8 18

6 30	21 1.85	− 6 25.3	2.349	3.206	11.4	21.1
7 10	20 56.85	− 6 26.1	2.277	3.206	8.7	20.9
7 20	20 50.47	− 6 38.8	2.228	3.206	5.9	20.7
7 30	20 43.25	− 7 2.2	2.206	3.207	3.6	20.6
8 9	20 35.90	− 7 33.8	2.211	3.207	4.0	20.6
8 19	20 29.13	− 8 10.8	2.243	3.207	6.6	20.8
8 29	20 23.60	− 8 49.7	2.302	3.207	9.4	21.0
9 8	20 19.80	− 9 27.4	2.383	3.208	12.0	21.1

254494 2005 EZ_{44} 7 31.2 67.°28 0.°9/31.6 17

6 30	21 8.79	−14 49.8	1.284	2.184	16.2	20.3
7 10	21 2.43	−15 6.9	1.243	2.203	11.6	20.1
7 20	20 53.65	−15 34.7	1.223	2.222	6.4	19.9
7 30	20 43.59	−16 8.3	1.226	2.241	1.3	19.6
8 9	20 33.62	−16 42.2	1.255	2.260	4.6	19.9
8 19	20 25.06	−17 11.9	1.308	2.279	9.5	20.2
8 29	20 18.95	−17 34.2	1.384	2.298	13.8	20.5
9 8	20 15.85	−17 47.6	1.479	2.317	17.4	20.8

233178 2005 VG_{125} 7 31.2 126.°40 1.°2/31.9 18

6 30	21 9.06	−14 44.8	2.091	2.967	11.9	20.9
7 10	21 1.95	−14 38.1	2.033	2.981	8.5	20.7
7 20	20 53.20	−14 37.4	2.000	2.995	4.9	20.5
7 30	20 43.55	−14 40.7	1.995	3.008	1.4	20.3
8 9	20 33.90	−14 45.6	2.018	3.021	3.4	20.5
8 19	20 25.15	−14 50.1	2.070	3.034	7.1	20.7
8 29	20 18.05	−14 52.5	2.147	3.045	10.4	20.9
9 8	20 13.11	−14 51.8	2.247	3.057	13.1	21.2

147027 2002 RV_{20} 7 31.2 322.°02 4.°0/29.4 18

6 30	21 6.30	−24 39.6	1.217	2.136	15.5	19.2
7 10	21 1.36	−25 19.1	1.150	2.120	11.2	18.9
7 20	20 53.47	−26 0.5	1.103	2.104	6.6	18.6
7 30	20 43.61	−26 35.9	1.079	2.089	4.0	18.4
8 9	20 33.31	−26 58.1	1.078	2.074	7.2	18.6
8 19	20 24.20	−27 2.8	1.100	2.061	12.1	18.8
8 29	20 17.76	−26 49.2	1.142	2.048	16.8	19.0
9 8	20 14.83	−26 19.7	1.201	2.036	20.8	19.3

435617 2008 SL_{101} 7 31.2 307.°02 3.°3/29.3 16

6 30	21 5.28	−23 32.4	1.521	2.431	13.5	21.3
7 10	21 0.22	−24 26.2	1.446	2.413	9.7	21.0
7 20	20 52.70	−25 23.8	1.394	2.395	5.6	20.8
7 30	20 43.52	−26 18.2	1.367	2.377	3.4	20.6
8 9	20 33.91	−27 2.3	1.365	2.360	6.3	20.7
8 19	20 25.19	−27 31.5	1.388	2.343	10.7	20.9
8 29	20 18.59	−27 43.6	1.432	2.326	14.8	21.1
9 8	20 14.94	−27 39.4	1.496	2.310	18.4	21.3

361450 Houellebecq 7 31.2 319.°39 1.°9/30.1 18

6 30	21 5.93	−23 20.8	2.103	2.999	11.0	20.8
7 10	20 59.93	−23 35.0	2.036	2.996	7.8	20.6
7 20	20 52.20	−23 49.4	1.994	2.993	4.3	20.4
7 30	20 43.45	−24 0.5	1.978	2.990	1.9	20.2
8 9	20 34.59	−24 5.1	1.991	2.988	4.3	20.4
8 19	20 26.53	−24 1.5	2.030	2.985	7.8	20.6
8 29	20 20.10	−23 49.3	2.094	2.983	11.0	20.8
9 8	20 15.83	−23 29.0	2.179	2.980	13.8	21.0

143287 2003 AL_{30} 7 31.2 261.°20 0.°5/31.6 18

6 30	21 2.75	−13 49.9	2.057	2.942	11.7	20.0
7 10	20 57.73	−14 34.9	1.985	2.939	8.4	19.8
7 20	20 51.05	−15 29.6	1.937	2.935	4.7	19.6
7 30	20 43.33	−16 30.1	1.917	2.931	0.8	19.3
8 9	20 35.40	−17 31.7	1.924	2.927	3.4	19.5
8 19	20 28.11	−18 29.7	1.958	2.924	7.2	19.7
8 29	20 22.29	−19 20.5	2.018	2.920	10.7	19.9
9 8	20 18.50	−20 1.8	2.099	2.916	13.7	20.1

382134 2011 KM_{12} 7 31.2 134.°49 3.°0/28.6 18

6 30	21 6.47	−21 37.7	1.939	2.835	11.7	20.7
7 10	21 0.52	−23 23.5	1.883	2.844	8.3	20.5
7 20	20 52.62	−25 13.9	1.854	2.852	4.7	20.3
7 30	20 43.51	−27 0.7	1.852	2.860	3.0	20.2
8 9	20 34.16	−28 36.5	1.879	2.868	5.6	20.4
8 19	20 25.61	−29 55.6	1.934	2.875	9.1	20.6
8 29	20 18.79	−30 55.6	2.014	2.882	12.3	20.9
9 8	20 14.33	−31 36.8	2.114	2.888	15.0	21.1

335135 2004 UG_4 7 31.2 300°.81 20°.2/ 5.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 7.92	+14 51.1	1.100	1.894	25.4	19.7
7 10	21 2.74	+17 37.0	1.038	1.882	23.4	19.5
7 20	20 54.40	+19 49.4	0.991	1.869	21.7	19.3
7 30	20 43.75	+21 15.5	0.959	1.856	20.5	19.2
8 9	20 32.28	+21 47.4	0.944	1.844	20.3	19.1
8 19	20 21.75	+21 24.4	0.944	1.833	21.2	19.1
8 29	20 13.83	+20 13.9	0.960	1.821	23.0	19.2
9 8	20 9.68	+18 29.7	0.989	1.811	25.2	19.3

150281 1999 TT_{58} 7 31.2 140°.52 1°.8/ 1.7 18

6 30	21 2.37	−10 38.4	2.621	3.488	10.1	20.7
7 10	20 57.09	−10 54.9	2.554	3.495	7.4	20.5
7 20	20 50.55	−11 19.7	2.513	3.502	4.5	20.3
7 30	20 43.28	−11 50.9	2.498	3.508	2.0	20.1
8 9	20 35.93	−12 25.8	2.513	3.515	3.0	20.2
8 19	20 29.14	−13 1.7	2.555	3.521	5.8	20.4
8 29	20 23.50	−13 35.9	2.625	3.527	8.6	20.6
9 8	20 19.46	−14 6.2	2.718	3.532	11.0	20.8

157276 2004 RG_{231} 7 31.2 287°.80 0°.9/31.8 18

6 30	21 2.62	−14 13.6	2.239	3.122	10.9	20.7
7 10	20 57.56	−14 29.9	2.160	3.112	7.9	20.5
7 20	20 50.93	−14 53.7	2.104	3.101	4.5	20.3
7 30	20 43.33	−15 22.6	2.076	3.090	1.1	20.0
8 9	20 35.53	−15 53.3	2.075	3.079	3.2	20.1
8 19	20 28.30	−16 22.9	2.102	3.068	6.8	20.4
8 29	20 22.41	−16 48.7	2.154	3.058	10.1	20.5
9 8	20 18.41	−17 8.8	2.229	3.047	13.0	20.7

428091 2006 QH_4 7 31.2 226°.48 6°.6/27.9 18

6 30	21 14.27	−33 50.1	1.698	2.590	13.3	20.8
7 10	21 6.45	−34 33.8	1.634	2.583	10.2	20.6
7 20	20 55.97	−35 8.8	1.594	2.575	7.5	20.4
7 30	20 43.89	−35 27.4	1.579	2.567	6.6	20.3
8 9	20 31.63	−35 24.5	1.590	2.558	8.5	20.4
8 19	20 20.64	−34 59.2	1.626	2.549	11.7	20.6
8 29	20 12.13	−34 14.0	1.684	2.540	14.9	20.8
9 8	20 6.82	−33 13.8	1.762	2.530	17.7	21.0

316807 1999 VK_{99} 7 31.2 307°.31 3°.5/ 2.2 18

6 30	21 3.99	− 8 18.3	1.717	2.592	14.1	20.1
7 10	20 58.85	− 8 18.1	1.644	2.586	10.6	19.9
7 20	20 51.76	− 8 32.1	1.594	2.580	6.9	19.7
7 30	20 43.43	− 8 58.9	1.568	2.574	3.8	19.5
8 9	20 34.87	− 9 35.1	1.568	2.569	4.7	19.5
8 19	20 27.08	−10 16.5	1.594	2.563	8.3	19.7
8 29	20 21.01	−10 58.7	1.644	2.558	12.0	19.9
9 8	20 17.31	−11 37.6	1.715	2.553	15.4	20.2

238652 2005 EE_{58} 7 31.2 353°.85 4°.6/30.0 18

6 30	21 10.17	−29 22.5	1.259	2.172	15.5	18.7
7 10	21 3.83	−29 7.7	1.200	2.166	11.4	18.5
7 20	20 54.61	−28 44.4	1.163	2.160	7.1	18.2
7 30	20 43.74	−28 7.5	1.148	2.155	4.6	18.1
8 9	20 32.85	−27 14.4	1.158	2.152	7.1	18.2
8 19	20 23.51	−26 6.5	1.191	2.151	11.5	18.4
8 29	20 16.98	−24 47.7	1.245	2.150	15.7	18.7
9 8	20 13.88	−23 22.6	1.319	2.151	19.4	18.9

236490 2006 FP_{54} 7 31.2 250°.74 3°.9/28.8 18

6 30	21 7.04	−26 25.4	1.804	2.706	12.2	20.7
7 10	21 1.06	−27 16.3	1.742	2.703	8.8	20.5
7 20	20 52.96	−28 6.3	1.704	2.700	5.4	20.3
7 30	20 43.57	−28 49.3	1.692	2.697	3.9	20.2
8 9	20 33.99	−29 20.0	1.706	2.694	6.2	20.3
8 19	20 25.35	−29 35.4	1.747	2.691	9.7	20.5
8 29	20 18.66	−29 35.1	1.810	2.687	13.0	20.7
9 8	20 14.54	−29 20.7	1.893	2.684	15.9	20.9

156929 2003 FL_{73} 7 31.2 43°.53 6°.2/27.6 17

6 30	21 6.85	−28 41.9	1.322	2.237	14.8	19.4
7 10	21 1.32	−30 12.4	1.287	2.252	10.8	19.2
7 20	20 53.19	−31 38.4	1.275	2.268	7.3	19.0
7 30	20 43.58	−32 49.8	1.287	2.284	6.3	19.0
8 9	20 34.00	−33 39.1	1.323	2.301	8.7	19.2
8 19	20 25.86	−34 3.5	1.381	2.318	12.3	19.5
8 29	20 20.28	−34 4.0	1.461	2.336	15.7	19.7
9 8	20 17.86	−33 44.5	1.558	2.354	18.6	20.0

514132 2015 HS_{110} 7 31.2 333°.72 0°.7/30.7 18

6 30	20 59.94	−13 59.5	1.311	2.221	15.3	19.8
7 10	20 56.60	−15 33.2	1.238	2.205	10.9	19.5
7 20	20 50.82	−17 26.8	1.186	2.189	5.9	19.1
7 30	20 43.36	−19 32.1	1.159	2.174	0.8	18.7
8 9	20 35.39	−21 38.0	1.157	2.160	5.2	19.0
8 19	20 28.24	−23 33.3	1.179	2.148	10.6	19.3
8 29	20 23.21	−25 9.9	1.223	2.136	15.4	19.5
9 8	20 21.18	−26 23.5	1.286	2.126	19.4	19.8

390914 2005 EB_{178} 7 31.2 101°.08 0°.3/31.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 8.10	−18 47.5	1.932	2.822	12.1	20.9
7 10	21 1.43	−18 53.3	1.878	2.834	8.5	20.7
7 20	20 52.98	−19 2.7	1.847	2.847	4.6	20.5
7 30	20 43.56	−19 12.5	1.844	2.859	0.6	20.2
8 9	20 34.16	−19 19.8	1.868	2.871	3.7	20.5
8 19	20 25.71	−19 22.6	1.920	2.882	7.6	20.8
8 29	20 19.05	−19 19.7	1.996	2.894	11.0	21.0
9 8	20 14.66	−19 10.9	2.095	2.905	13.9	21.2

400853 2010 MM_{102} 7 31.2 323°.81 7°.2/24.4 18

6 30	21 5.09	−34 14.8	1.944	2.843	11.6	19.8
7 10	20 59.89	−36 15.6	1.888	2.836	9.1	19.7
7 20	20 52.46	−38 11.2	1.858	2.830	7.4	19.5
7 30	20 43.53	−39 52.4	1.854	2.823	7.5	19.5
8 9	20 34.19	−41 11.7	1.876	2.817	9.4	19.6
8 19	20 25.64	−42 5.3	1.922	2.811	11.9	19.8
8 29	20 18.98	−42 32.9	1.989	2.806	14.5	19.9
9 8	20 14.99	−42 37.4	2.075	2.800	16.7	20.1

46110 2001 FK_{23} 7 31.2 219°.96 0°.2/31.3 18

6 30	21 7.01	−15 12.7	1.707	2.597	13.4	19.6
7 10	21 1.08	−15 52.0	1.635	2.591	9.6	19.4
7 20	20 53.02	−16 41.3	1.586	2.585	5.3	19.1
7 30	20 43.59	−17 36.1	1.563	2.578	0.7	18.7
8 9	20 33.86	−18 30.7	1.567	2.571	4.1	19.0
8 19	20 24.95	−19 20.1	1.598	2.563	8.6	19.3
8 29	20 17.90	−20 0.6	1.653	2.555	12.7	19.5
9 8	20 13.42	−20 30.3	1.728	2.546	16.1	19.7

48296 2002 LB_{18} 7 31.2 74°.78 7°.6/ 5.9 18

6 30	21 3.05	+ 5 44.2	2.336	3.129	13.5	18.6
7 10	20 57.68	+ 6 26.8	2.273	3.140	11.4	18.5
7 20	20 50.91	+ 6 51.2	2.232	3.150	9.4	18.4
7 30	20 43.35	+ 6 56.1	2.214	3.161	7.9	18.3
8 9	20 35.69	+ 6 42.2	2.222	3.171	7.7	18.3
8 19	20 28.66	+ 6 11.9	2.255	3.182	8.7	18.4
8 29	20 22.91	+ 5 29.3	2.313	3.193	10.5	18.5
9 8	20 18.91	+ 4 39.4	2.393	3.203	12.4	18.7

118233 1997 BX_6 7 31.2 4°.59 0°.8/30.9 18

6 30	21 9.42	−18 52.7	1.166	2.077	16.6	18.5
7 10	21 3.39	−19 7.8	1.110	2.077	11.9	18.2
7 20	20 54.45	−19 30.0	1.075	2.077	6.4	17.9
7 30	20 43.75	−19 53.5	1.062	2.077	1.0	17.6
8 9	20 32.86	−20 12.7	1.074	2.078	5.4	17.9
8 19	20 23.38	−20 23.4	1.108	2.078	10.9	18.2
8 29	20 16.65	−20 23.9	1.164	2.079	15.8	18.5
9 8	20 13.38	−20 14.3	1.238	2.080	19.8	18.7

349787 2009 BB_{62} 7 31.2 184°.43 0°.1/31.3 18

6 30	21 5.67	−16 50.3	2.040	2.927	11.6	21.8
7 10	20 59.78	−17 6.4	1.972	2.927	8.3	21.6
7 20	20 52.15	−17 28.3	1.929	2.927	4.5	21.4
7 30	20 43.50	−17 52.7	1.912	2.927	0.5	21.0
8 9	20 34.71	−18 16.3	1.923	2.927	3.5	21.3
8 19	20 26.69	−18 36.1	1.962	2.926	7.4	21.5
8 29	20 20.24	−18 50.2	2.025	2.925	10.8	21.7
9 8	20 15.94	−18 57.6	2.111	2.924	13.7	21.9

90915 1997 HP_{13} 7 31.2 37°.42 3°.4/ 1.9 17

6 30	21 5.09	− 9 44.2	0.973	1.882	19.4	19.5
7 10	21 0.32	− 9 56.0	0.934	1.895	14.3	19.2
7 20	20 52.74	−10 28.8	0.913	1.909	8.8	19.0
7 30	20 43.57	−11 18.3	0.913	1.924	3.9	18.8
8 9	20 34.43	−12 16.7	0.935	1.940	5.6	18.9
8 19	20 26.85	−13 16.0	0.979	1.957	10.8	19.3
8 29	20 22.05	−14 9.3	1.043	1.974	15.6	19.6
9 8	20 20.62	−14 51.9	1.125	1.992	19.7	19.9

348500 2005 TE_{52} 7 31.2 246°.48 2°.3/29.7 18

6 30	21 6.34	−20 55.8	1.689	2.590	12.9	20.4
7 10	21 0.71	−21 57.6	1.621	2.583	9.2	20.1
7 20	20 52.86	−23 5.1	1.576	2.576	5.1	19.9
7 30	20 43.60	−24 11.7	1.557	2.569	2.3	19.7
8 9	20 34.02	−25 10.8	1.564	2.561	5.3	19.9
8 19	20 25.29	−25 57.3	1.598	2.553	9.5	20.1
8 29	20 18.50	−26 28.7	1.655	2.545	13.4	20.3
9 8	20 14.36	−26 44.8	1.732	2.537	16.6	20.5

339354 2005 AY_{22} 7 31.2 300°.71 2°.6/29.6 18

6 30	21 5.37	−21 50.0	1.597	2.503	13.2	20.1
7 10	21 0.32	−22 42.3	1.511	2.476	9.5	19.8
7 20	20 52.82	−23 40.7	1.449	2.450	5.4	19.5
7 30	20 43.62	−24 38.8	1.411	2.423	2.6	19.3
8 9	20 33.86	−25 29.7	1.399	2.396	5.8	19.4
8 19	20 24.81	−26 8.0	1.412	2.370	10.3	19.6
8 29	20 17.73	−26 30.7	1.448	2.343	14.6	19.8
9 8	20 13.52	−26 37.6	1.503	2.317	18.3	20.0

196159 2002 VT_{17} 7 31.2 330°.23 0°.2/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 0.84	−15 23.7	2.255	3.144	10.6	20.0
7 10	20 56.31	−15 59.6	2.181	3.137	7.6	19.8
7 20	20 50.28	−16 43.0	2.132	3.130	4.2	19.6
7 30	20 43.32	−17 30.5	2.109	3.124	0.5	19.3
8 9	20 36.18	−18 18.2	2.114	3.118	3.2	19.5
8 19	20 29.62	−19 2.5	2.147	3.112	6.7	19.7
8 29	20 24.35	−19 40.5	2.205	3.107	10.0	19.9
9 8	20 20.92	−20 10.3	2.285	3.102	12.7	20.1

11904 1991 TR_{1} 7 31.2 312°.90 22°.1/10.3 18

6 30	21 4.40	+19 32.3	1.061	1.835	27.3	17.7
7 10	21 0.28	+21 59.8	1.002	1.824	25.6	17.5
7 20	20 53.08	+23 46.4	0.956	1.813	24.0	17.3
7 30	20 43.67	+24 39.7	0.923	1.802	22.7	17.2
8 9	20 33.52	+24 32.6	0.904	1.792	22.1	17.1
8 19	20 24.33	+23 25.4	0.899	1.783	22.5	17.1
8 29	20 17.78	+21 26.7	0.909	1.774	23.7	17.2
9 8	20 14.98	+18 52.5	0.932	1.766	25.5	17.2

255766 2006 RZ_{55} 7 31.2 270°.38 2°.7/ 1.7 18

6 30	21 6.23	− 9 52.3	1.642	2.521	14.4	21.1
7 10	21 0.75	−10 9.2	1.553	2.499	10.8	20.8
7 20	20 52.99	−10 41.3	1.486	2.478	6.7	20.5
7 30	20 43.64	−11 26.2	1.445	2.455	3.0	20.3
8 9	20 33.78	−12 19.5	1.429	2.432	4.5	20.3
8 19	20 24.57	−13 16.0	1.440	2.409	8.9	20.5
8 29	20 17.16	−14 10.2	1.474	2.386	13.3	20.7
9 8	20 12.39	−14 58.1	1.529	2.362	17.2	20.9

20165 1996 VT_{2} 7 31.2 184°.35 0°.9/31.8 18

6 30	21 8.43	−14 2.5	1.843	2.724	13.0	19.8
7 10	21 1.90	−14 24.7	1.774	2.725	9.4	19.5
7 20	20 53.39	−14 55.9	1.728	2.725	5.3	19.3
7 30	20 43.68	−15 32.8	1.710	2.724	1.2	19.0
8 9	20 33.76	−16 11.1	1.719	2.723	3.8	19.2
8 19	20 24.69	−16 46.8	1.755	2.720	8.0	19.5
8 29	20 17.39	−17 16.8	1.816	2.718	11.8	19.7
9 8	20 12.51	−17 39.4	1.899	2.714	15.0	19.9

515509 2014 EO_{14} 7 31.2 266°.63 2°.2/ 1.8 18

6 30	21 4.22	− 9 46.4	1.911	2.786	12.9	22.1
7 10	20 59.01	−10 14.2	1.824	2.768	9.6	21.8
7 20	20 51.90	−10 55.7	1.760	2.751	5.9	21.6
7 30	20 43.52	−11 48.4	1.722	2.733	2.5	21.3
8 9	20 34.77	−12 48.0	1.711	2.715	3.9	21.4
8 19	20 26.61	−13 49.4	1.728	2.696	7.8	21.6
8 29	20 19.97	−14 48.0	1.769	2.678	11.6	21.8
9 8	20 15.56	−15 39.9	1.832	2.659	15.0	22.0

384506 2010 CJ_{120} 7 31.2 201°.27 3°.4/29.3 18

6 30	21 10.31	−27 13.4	2.055	2.947	11.4	21.5
7 10	21 3.15	−27 38.2	1.989	2.944	8.2	21.3
7 20	20 54.03	−28 0.1	1.947	2.941	5.0	21.1
7 30	20 43.75	−28 14.5	1.932	2.937	3.4	21.0
8 9	20 33.34	−28 17.8	1.945	2.933	5.4	21.1
8 19	20 23.86	−28 8.5	1.985	2.928	8.7	21.3
8 29	20 16.22	−27 47.0	2.050	2.923	11.9	21.5
9 8	20 11.00	−27 15.2	2.136	2.918	14.6	21.7

263513 2008 ER_{141} 7 31.2 278°.31 5°.0/28.6 18

6 30	21 10.17	−27 35.9	1.503	2.408	14.0	20.5
7 10	21 3.93	−28 29.6	1.425	2.387	10.3	20.2
7 20	20 54.87	−29 22.8	1.370	2.365	6.6	20.0
7 30	20 43.87	−30 7.0	1.340	2.343	5.0	19.8
8 9	20 32.32	−30 35.2	1.335	2.321	7.7	19.9
8 19	20 21.75	−30 43.2	1.354	2.298	11.8	20.1
8 29	20 13.57	−30 30.9	1.395	2.275	15.9	20.3
9 8	20 8.68	−30 1.1	1.454	2.253	19.5	20.5

471670 2012 TW_{166} 7 31.2 271°.43 4°.5/28.3 18

6 30	21 7.01	−27 43.2	1.818	2.720	12.1	20.9
7 10	21 1.17	−28 42.3	1.749	2.709	8.8	20.7
7 20	20 53.12	−29 40.3	1.705	2.698	5.7	20.5
7 30	20 43.66	−30 30.3	1.686	2.687	4.5	20.4
8 9	20 33.90	−31 6.5	1.693	2.676	6.7	20.5
8 19	20 25.02	−31 25.7	1.726	2.665	10.1	20.7
8 29	20 18.06	−31 27.2	1.782	2.653	13.5	20.9
9 8	20 13.75	−31 13.0	1.858	2.642	16.4	21.0

462608 2009 HM_{90} 7 31.2 50°.53 2°.7/ 1.6 17

6 30	21 6.88	−10 41.6	1.133	2.033	17.9	20.9
7 10	21 1.27	−10 56.5	1.095	2.053	13.1	20.7
7 20	20 53.13	−11 28.5	1.077	2.073	7.8	20.5
7 30	20 43.64	−12 13.2	1.082	2.094	3.1	20.3
8 9	20 34.26	−13 4.0	1.110	2.115	5.0	20.5
8 19	20 26.36	−13 54.2	1.162	2.137	9.9	20.8
8 29	20 21.01	−14 38.6	1.235	2.159	14.4	21.1
9 8	20 18.77	−15 13.5	1.327	2.181	18.1	21.4

369555 2011 AJ_{60} 7 31.2 233°.42 0°.5/31.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 7.13	−14 44.4	1.802	2.688	13.0	22.1
7 10	21 1.15	−15 15.8	1.724	2.678	9.4	21.8
7 20	20 53.09	−15 56.9	1.669	2.666	5.2	21.6
7 30	20 43.68	−16 43.9	1.640	2.655	0.9	21.2
8 9	20 33.94	−17 31.8	1.639	2.643	3.9	21.4
8 19	20 24.93	−18 16.0	1.664	2.630	8.3	21.7
8 29	20 17.68	−18 53.0	1.715	2.617	12.3	21.9
9 8	20 12.89	−19 20.8	1.786	2.603	15.7	22.1

184746 2005 SU_{246} 7 31.2 109°.71 4°.3/ 3.5 18

6 30	21 2.46	− 3 44.5	2.239	3.085	12.3	21.1
7 10	20 57.37	− 3 42.2	2.169	3.089	9.6	21.0
7 20	20 50.82	− 3 54.0	2.123	3.092	6.8	20.8
7 30	20 43.42	− 4 19.1	2.102	3.096	4.6	20.7
8 9	20 35.89	− 4 55.1	2.108	3.099	4.8	20.7
8 19	20 28.98	− 5 38.7	2.141	3.102	7.0	20.8
8 29	20 23.37	− 6 25.9	2.200	3.106	9.8	21.0
9 8	20 19.57	− 7 12.9	2.282	3.109	12.4	21.2

337306 2000 YR_{53} 7 31.2 270°.20 1°.0/31.8 18

6 30	21 7.01	−15 3.1	1.842	2.728	12.8	20.3
7 10	21 1.04	−15 3.6	1.759	2.712	9.3	20.0
7 20	20 53.03	−15 11.6	1.699	2.695	5.3	19.7
7 30	20 43.68	−15 24.4	1.665	2.679	1.3	19.4
8 9	20 34.00	−15 39.0	1.658	2.662	3.8	19.6
8 19	20 25.04	−15 52.6	1.678	2.645	8.1	19.8
8 29	20 17.80	−16 2.6	1.722	2.627	12.1	20.0
9 8	20 12.96	−16 7.6	1.788	2.610	15.5	20.2

491043 2011 QW_{23} 7 31.2 265°.30 2°.1/ 1.7 18

6 30	21 3.75	−10 33.8	2.087	2.961	12.0	21.9
7 10	20 58.52	−10 51.9	2.001	2.946	8.9	21.7
7 20	20 51.58	−11 21.2	1.940	2.930	5.4	21.4
7 30	20 43.52	−11 59.6	1.904	2.915	2.3	21.2
8 9	20 35.16	−12 43.6	1.896	2.899	3.6	21.2
8 19	20 27.38	−13 29.3	1.916	2.883	7.2	21.4
8 29	20 20.99	−14 12.9	1.960	2.867	10.8	21.6
9 8	20 16.65	−14 51.4	2.028	2.851	13.9	21.8

46121 2001 FB_{36} 7 31.2 25°.81 2°.9/29.8 18

6 30	21 7.29	−24 14.8	1.607	2.512	13.2	18.6
7 10	21 1.31	−24 41.3	1.552	2.516	9.4	18.4
7 20	20 53.13	−25 7.8	1.520	2.520	5.4	18.2
7 30	20 43.68	−25 28.9	1.513	2.524	2.9	18.0
8 9	20 34.18	−25 40.4	1.532	2.528	5.5	18.2
8 19	20 25.78	−25 39.8	1.576	2.533	9.5	18.4
8 29	20 19.50	−25 27.0	1.644	2.538	13.2	18.7
9 8	20 15.93	−25 3.5	1.731	2.543	16.3	18.9

210744 2000 UE_{75} 7 31.2 347°.71 4°.7/28.6 17

6 30	20 52.47	−21 29.4	0.745	1.698	18.2	17.9
7 10	20 52.29	−22 53.9	0.691	1.678	13.0	17.5
7 20	20 48.88	−24 32.2	0.654	1.661	7.5	17.1
7 30	20 43.25	−26 11.8	0.635	1.647	4.8	16.9
8 9	20 37.11	−27 37.6	0.635	1.635	9.1	17.1
8 19	20 32.39	−28 37.7	0.652	1.627	15.1	17.4
8 29	20 30.80	−29 6.3	0.684	1.622	20.5	17.6
9 8	20 33.27	−29 3.5	0.730	1.619	25.1	17.9

506527 2004 TQ_{96} 7 31.2 220°.99 5°.7/26.9 18

6 30	21 10.89	−34 47.4	2.404	3.285	10.3	22.4
7 10	21 3.60	−35 44.1	2.334	3.274	8.0	22.3
7 20	20 54.33	−36 34.2	2.289	3.262	6.1	22.1
7 30	20 43.83	−37 11.7	2.271	3.249	5.8	22.1
8 9	20 33.09	−37 32.3	2.282	3.236	7.2	22.2
8 19	20 23.12	−37 34.4	2.318	3.222	9.6	22.3
8 29	20 14.86	−37 18.7	2.379	3.207	12.0	22.4
9 8	20 8.96	−36 47.9	2.460	3.191	14.2	22.6

296153 2009 BX_{109} 7 31.2 245°.64 1°.4/ 1.2 18

6 30	21 3.87	−12 24.2	1.991	2.872	12.2	20.9
7 10	20 58.59	−12 46.2	1.919	2.869	8.9	20.7
7 20	20 51.59	−13 18.3	1.871	2.865	5.2	20.5
7 30	20 43.53	−13 57.6	1.849	2.862	1.7	20.2
8 9	20 35.27	−14 40.2	1.854	2.858	3.5	20.4
8 19	20 27.71	−15 22.2	1.887	2.855	7.3	20.6
8 29	20 21.66	−16 0.2	1.944	2.851	10.8	20.8
9 8	20 17.72	−16 31.7	2.024	2.847	13.9	21.0

250321 2003 SX_{3} 7 31.2 267°.06 3°.8/29.5 17

6 30	21 10.28	−25 21.3	1.417	2.324	14.5	20.3
7 10	21 3.84	−25 58.0	1.355	2.319	10.5	20.1
7 20	20 54.70	−26 34.4	1.315	2.314	6.2	19.8
7 30	20 43.90	−27 3.5	1.299	2.308	3.8	19.6
8 9	20 32.85	−27 19.3	1.309	2.303	6.6	19.8
8 19	20 23.03	−27 18.9	1.343	2.297	11.0	20.0
8 29	20 15.70	−27 2.6	1.399	2.291	15.2	20.3
9 8	20 11.59	−26 32.7	1.473	2.286	18.7	20.5

373753 2002 TK_{155} 7 31.2 310°.61 7°.1/ 3.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 3.91	− 3 13.5	1.329	2.202	17.6	20.8
7 10	20 59.41	− 2 40.6	1.250	2.182	14.1	20.5
7 20	20 52.40	− 2 28.8	1.189	2.164	10.3	20.2
7 30	20 43.66	− 2 39.9	1.151	2.145	7.5	20.0
8 9	20 34.38	− 3 12.3	1.135	2.127	7.7	20.0
8 19	20 25.91	− 4 1.7	1.142	2.110	11.0	20.1
8 29	20 19.52	− 5 1.2	1.171	2.093	15.1	20.3
9 8	20 16.11	− 6 3.3	1.219	2.077	19.1	20.5

325446 2009 QD_{13} 7 31.2 297°.49 1°.7/ 1.4 18

6 30	21 2.03	−11 45.4	2.205	3.083	11.3	20.8
7 10	20 57.24	−12 1.0	2.119	3.066	8.3	20.5
7 20	20 50.86	−12 26.3	2.058	3.050	5.0	20.3
7 30	20 43.46	−12 59.2	2.022	3.034	1.9	20.1
8 9	20 35.81	−13 36.4	2.015	3.018	3.3	20.1
8 19	20 28.69	−14 14.6	2.035	3.003	6.8	20.3
8 29	20 22.88	−14 50.6	2.080	2.987	10.2	20.5
9 8	20 18.95	−15 21.6	2.148	2.971	13.2	20.7

53157 Akaishidake 7 31.2 41°.12 2°.5/ 2.3 18

6 30	21 5.39	− 2 57.7	1.094	1.976	19.8	16.8
7 10	21 0.17	− 5 34.2	1.066	2.013	14.6	16.6
7 20	20 52.54	− 8 39.5	1.059	2.050	8.7	16.4
7 30	20 43.64	−11 59.4	1.077	2.089	3.2	16.2
8 9	20 34.91	−15 15.9	1.122	2.127	4.7	16.4
8 19	20 27.68	−18 13.4	1.193	2.167	9.8	16.8
8 29	20 22.95	−20 42.2	1.288	2.206	14.3	17.2
9 8	20 21.23	−22 39.2	1.404	2.246	17.9	17.5

212406 2006 KJ_{23} 7 31.2 20°.39 3°.3/29.7 17

6 30	21 6.18	−22 18.5	1.078	2.001	16.7	19.8
7 10	21 1.24	−23 10.6	1.033	2.005	11.8	19.5
7 20	20 53.37	−24 7.2	1.007	2.010	6.6	19.2
7 30	20 43.75	−24 59.2	1.004	2.016	3.3	19.1
8 9	20 34.03	−25 38.6	1.023	2.022	6.9	19.3
8 19	20 25.83	−26 0.6	1.065	2.030	11.9	19.6
8 29	20 20.45	−26 4.1	1.127	2.038	16.5	19.9
9 8	20 18.56	−25 51.0	1.206	2.047	20.3	20.2

237026 2008 SY_{42} 7 31.2 227°.86 3°.5/28.9 18

6 30	21 8.71	−26 55.1	2.156	3.049	10.9	21.2
7 10	21 2.09	−27 35.7	2.082	3.038	7.9	21.0
7 20	20 53.53	−28 14.9	2.033	3.027	4.9	20.8
7 30	20 43.77	−28 47.5	2.012	3.016	3.5	20.7
8 9	20 33.78	−29 9.2	2.018	3.004	5.5	20.8
8 19	20 24.54	−29 17.8	2.051	2.991	8.7	20.9
8 29	20 16.98	−29 12.7	2.109	2.978	11.8	21.1
9 8	20 11.73	−28 55.5	2.188	2.965	14.5	21.3

389098 2008 XC_{48} 7 31.2 352°.61 2°.2/29.8 18

6 30	21 3.79	−20 19.0	1.613	2.520	13.1	20.4
7 10	20 58.93	−21 23.4	1.552	2.518	9.3	20.2
7 20	20 51.93	−22 34.0	1.514	2.516	5.1	19.9
7 30	20 43.60	−23 44.2	1.502	2.514	2.2	19.7
8 9	20 35.03	−24 47.1	1.515	2.513	5.3	19.9
8 19	20 27.37	−25 37.5	1.554	2.513	9.4	20.2
8 29	20 21.64	−26 12.5	1.616	2.512	13.3	20.4
9 8	20 18.50	−26 31.9	1.698	2.512	16.5	20.6

511293 2014 DU_{63} 7 31.2 179°.99 3°.8/28.8 18

6 30	21 8.24	−28 18.2	2.167	3.060	10.8	22.1
7 10	21 1.64	−28 56.3	2.106	3.061	7.9	21.9
7 20	20 53.23	−29 31.4	2.069	3.061	5.0	21.7
7 30	20 43.74	−29 58.5	2.060	3.062	3.8	21.7
8 9	20 34.15	−30 13.8	2.079	3.061	5.7	21.8
8 19	20 25.42	−30 15.6	2.124	3.061	8.6	22.0
8 29	20 18.39	−30 4.1	2.194	3.060	11.5	22.1
9 8	20 13.64	−29 40.8	2.284	3.059	14.0	22.3

71459 2000 BJ_{2} 7 31.2 123°.57 10°.9/24.9 18

6 30	21 23.49	−52 31.7	2.209	3.032	13.3	19.7
7 10	21 12.75	−53 24.2	2.178	3.044	11.9	19.6
7 20	20 59.24	−53 54.4	2.170	3.057	11.1	19.6
7 30	20 44.39	−53 55.6	2.185	3.069	11.1	19.6
8 9	20 29.94	−53 25.4	2.223	3.080	11.9	19.7
8 19	20 17.45	−52 26.2	2.283	3.092	13.2	19.8
8 29	20 8.04	−51 3.7	2.365	3.102	14.6	19.9
9 8	20 2.17	−49 25.1	2.464	3.113	16.0	20.1

349830 2009 CO_{15} 7 31.2 224°.52 2°.1/ 1.7 18

6 30	21 4.07	−10 35.6	1.973	2.849	12.5	21.4
7 10	20 58.74	−10 51.1	1.902	2.847	9.2	21.2
7 20	20 51.69	−11 17.9	1.854	2.845	5.6	21.0
7 30	20 43.58	−11 53.5	1.832	2.842	2.4	20.7
8 9	20 35.29	−12 34.5	1.837	2.840	3.7	20.8
8 19	20 27.70	−13 16.9	1.869	2.838	7.3	21.1
8 29	20 21.63	−13 56.9	1.927	2.835	10.8	21.3
9 8	20 17.67	−14 31.8	2.007	2.833	13.9	21.5

30952 1994 PX_{15} 7 31.3 213°.03 0°.8/31.7 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 8.72	−14 10.8	1.585	2.474	14.3	19.4
7 10	21 2.47	−14 39.6	1.514	2.468	10.4	19.1
7 20	20 53.91	−15 19.5	1.465	2.463	5.8	18.8
7 30	20 43.85	−16 6.4	1.442	2.456	1.2	18.5
8 9	20 33.49	−16 54.7	1.445	2.450	4.2	18.7
8 19	20 24.03	−17 39.3	1.475	2.442	9.0	19.0
8 29	20 16.59	−18 16.4	1.528	2.434	13.3	19.2
9 8	20 11.92	−18 43.9	1.602	2.426	16.9	19.4

94470 2001 TB_{169} 7 31.3 259°.99 1°.4/30.7 17

6 30	21 11.26	−20 46.1	1.368	2.271	15.2	19.5
7 10	21 4.59	−20 54.6	1.300	2.263	10.9	19.2
7 20	20 55.17	−21 6.6	1.253	2.255	6.0	18.9
7 30	20 44.00	−21 17.1	1.232	2.246	1.4	18.6
8 9	20 32.53	−21 21.3	1.235	2.237	5.3	18.8
8 19	20 22.25	−21 16.6	1.263	2.229	10.4	19.1
8 29	20 14.47	−21 2.1	1.314	2.220	15.0	19.4
9 8	20 9.96	−20 38.9	1.383	2.211	18.9	19.6

416771 2005 EJ_{261} 7 31.3 130°.80 1°.0/30.7 17

6 30	21 10.17	−19 12.2	1.646	2.541	13.6	21.8
7 10	21 3.25	−19 42.8	1.593	2.552	9.6	21.6
7 20	20 54.18	−20 18.3	1.563	2.563	5.2	21.3
7 30	20 43.88	−20 53.4	1.559	2.573	1.1	21.1
8 9	20 33.53	−21 23.4	1.582	2.583	4.5	21.3
8 19	20 24.30	−21 44.8	1.631	2.592	8.8	21.6
8 29	20 17.17	−21 56.2	1.704	2.601	12.7	21.9
9 8	20 12.72	−21 57.6	1.798	2.609	15.9	22.1

221764 2007 FE_{43} 7 31.3 93°.34 4°.9/ 3.6 18

6 30	21 4.14	− 2 40.8	2.400	3.236	11.9	19.9
7 10	20 58.44	− 2 10.4	2.336	3.246	9.5	19.7
7 20	20 51.39	− 1 52.8	2.295	3.255	7.0	19.6
7 30	20 43.57	− 1 48.2	2.280	3.265	5.1	19.5
8 9	20 35.67	− 1 55.5	2.292	3.275	5.2	19.5
8 19	20 28.41	− 2 12.4	2.332	3.284	7.1	19.6
8 29	20 22.41	− 2 35.9	2.397	3.294	9.5	19.8
9 8	20 18.15	− 3 2.7	2.485	3.303	11.8	20.0

400421 2008 CQ_{100} 7 31.3 115°.57 5°.7/ 4.2 18

6 30	21 5.94	+ 0 16.5	2.483	3.299	12.2	20.9
7 10	20 59.65	+ 0 54.3	2.422	3.314	9.9	20.8
7 20	20 52.03	+ 1 18.0	2.384	3.329	7.6	20.6
7 30	20 43.66	+ 1 27.0	2.372	3.344	6.0	20.6
8 9	20 35.25	+ 1 22.3	2.388	3.359	5.9	20.6
8 19	20 27.49	+ 1 5.8	2.431	3.373	7.4	20.7
8 29	20 21.00	+ 0 40.8	2.500	3.386	9.5	20.9
9 8	20 16.23	+ 0 10.9	2.592	3.400	11.6	21.0

245799 2006 HB_{67} 7 31.3 345°.07 9°.8/26.1 18

6 30	21 2.04	−32 20.7	0.908	1.845	17.6	18.6
7 10	20 59.17	−33 58.9	0.859	1.831	13.7	18.4
7 20	20 52.68	−35 30.9	0.827	1.818	10.5	18.2
7 30	20 43.77	−36 42.0	0.815	1.807	10.1	18.1
8 9	20 34.42	−37 20.0	0.822	1.798	12.9	18.2
8 19	20 26.72	−37 20.4	0.848	1.791	17.1	18.4
8 29	20 22.42	−36 45.3	0.889	1.786	21.2	18.6
9 8	20 22.35	−35 41.8	0.945	1.783	24.9	18.9

240805 2005 YL_{143} 7 31.3 18°.09 2°.7/29.7 17

6 30	21 1.72	−18 3.8	0.902	1.834	18.2	19.0
7 10	20 58.38	−19 38.5	0.862	1.839	12.8	18.8
7 20	20 51.97	−21 26.8	0.841	1.846	6.9	18.5
7 30	20 43.67	−23 16.4	0.840	1.854	2.7	18.2
8 9	20 35.22	−24 53.6	0.861	1.863	7.1	18.6
8 19	20 28.31	−26 8.9	0.903	1.873	12.7	18.9
8 29	20 24.35	−26 57.9	0.964	1.885	17.7	19.2
9 8	20 24.01	−27 21.2	1.041	1.898	21.8	19.5

143886 2003 YE_{35} 7 31.3 205°.81 2°.0/ 1.6 18

6 30	21 7.17	−10 25.5	1.923	2.795	13.0	20.7
7 10	21 1.06	−10 53.3	1.846	2.789	9.6	20.5
7 20	20 53.04	−11 33.7	1.793	2.784	5.8	20.3
7 30	20 43.80	−12 23.6	1.766	2.777	2.3	20.0
8 9	20 34.28	−13 18.7	1.767	2.770	3.8	20.1
8 19	20 25.46	−14 14.1	1.795	2.762	7.7	20.3
8 29	20 18.27	−15 5.8	1.849	2.753	11.5	20.5
9 8	20 13.35	−15 50.4	1.925	2.744	14.7	20.7

349283 2007 TF_{359} 7 31.3 234°.03 3°.7/ 3.0 18

6 30	21 3.91	− 5 8.4	2.373	3.220	11.7	21.9
7 10	20 58.49	− 5 16.1	2.285	3.208	9.0	21.7
7 20	20 51.54	− 5 37.0	2.220	3.195	6.2	21.5
7 30	20 43.63	− 6 9.9	2.182	3.181	3.9	21.4
8 9	20 35.46	− 6 52.5	2.173	3.167	4.3	21.4
8 19	20 27.78	− 7 41.3	2.191	3.153	6.8	21.5
8 29	20 21.33	− 8 32.5	2.235	3.138	9.8	21.7
9 8	20 16.65	− 9 22.5	2.303	3.123	12.5	21.8

512618 2016 TZ_{36} 7 31.3 208°.55 1°.2/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 5.10	−13 34.3	2.105	2.985	11.7	21.6
7 10	20 59.41	−13 44.9	2.033	2.982	8.5	21.4
7 20	20 52.05	−14 3.6	1.985	2.980	4.9	21.2
7 30	20 43.69	−14 27.7	1.963	2.977	1.5	20.9
8 9	20 35.16	−14 54.3	1.970	2.974	3.4	21.1
8 19	20 27.33	−15 20.3	2.004	2.971	7.0	21.3
8 29	20 20.96	−15 43.0	2.064	2.967	10.5	21.5
9 8	20 16.64	−16 0.7	2.145	2.964	13.4	21.7

424596 2008 GM_{123} 7 31.3 126°.06 4°.0/29.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 11.05	−26 44.2	1.655	2.555	13.2	21.7
7 10	21 3.98	−27 28.0	1.605	2.564	9.5	21.5
7 20	20 54.64	−28 9.5	1.578	2.573	5.8	21.3
7 30	20 43.99	−28 42.1	1.577	2.582	4.0	21.2
8 9	20 33.32	−29 0.9	1.602	2.590	6.4	21.4
8 19	20 23.86	−29 3.8	1.653	2.598	10.0	21.6
8 29	20 16.63	−28 51.3	1.727	2.606	13.5	21.8
9 8	20 12.24	−28 26.0	1.821	2.613	16.4	22.1

503746 2016 LY_{41} 7 31.3 97°.71 1°.8/30.2 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 7.60	−19 11.0	1.462	2.365	14.4	21.2
7 10	21 1.72	−20 13.5	1.410	2.374	10.1	21.0
7 20	20 53.49	−21 22.9	1.381	2.383	5.5	20.7
7 30	20 43.87	−22 32.0	1.378	2.391	1.8	20.5
8 9	20 34.12	−23 33.5	1.400	2.400	5.3	20.8
8 19	20 25.50	−24 22.0	1.448	2.408	9.8	21.0
8 29	20 19.10	−24 55.0	1.518	2.416	13.8	21.3
9 8	20 15.57	−25 12.6	1.608	2.424	17.2	21.6

7880 1992 OM_{7} 7 31.3 11°.47 0°.6/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 5.47	−15 50.7	1.766	2.658	12.9	17.0
7 10	20 59.89	−16 0.0	1.702	2.659	9.3	16.8
7 20	20 52.39	−16 16.6	1.661	2.660	5.1	16.6
7 30	20 43.75	−16 37.3	1.646	2.661	0.9	16.3
8 9	20 34.97	−16 58.5	1.657	2.662	3.8	16.5
8 19	20 27.06	−17 17.1	1.695	2.663	8.0	16.7
8 29	20 20.92	−17 30.6	1.757	2.665	11.7	17.0
9 8	20 17.16	−17 37.7	1.840	2.666	15.0	17.2

182759 2001 XL_{162} 7 31.3 167°.86 1°.2/30.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 4.41	−20 42.8	2.667	3.553	9.3	21.5
7 10	20 58.66	−21 19.8	2.601	3.557	6.5	21.3
7 20	20 51.55	−21 59.3	2.562	3.561	3.5	21.1
7 30	20 43.65	−22 37.7	2.550	3.564	1.2	21.0
8 9	20 35.64	−23 11.9	2.568	3.566	3.4	21.1
8 19	20 28.21	−23 39.3	2.615	3.568	6.4	21.3
8 29	20 22.01	−23 58.6	2.687	3.570	9.1	21.5
9 8	20 17.50	−24 9.4	2.783	3.571	11.4	21.7

268482 2005 XH_{69} 7 31.3 30°.68 6°.8/27.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 7.43	−30 28.1	1.249	2.166	15.3	19.6
7 10	21 1.95	−31 39.9	1.212	2.176	11.4	19.4
7 20	20 53.70	−32 45.1	1.196	2.188	7.9	19.2
7 30	20 43.89	−33 34.0	1.204	2.200	6.9	19.2
8 9	20 34.12	−33 59.7	1.234	2.213	9.2	19.4
8 19	20 25.89	−34 0.6	1.287	2.227	12.8	19.6
8 29	20 20.40	−33 38.6	1.361	2.241	16.3	19.9
9 8	20 18.22	−32 58.4	1.451	2.256	19.3	20.2

512869 2016 WB_{4} 7 31.3 205°.24 5°.6/27.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 7.70	−33 59.1	2.224	3.114	10.7	21.3
7 10	21 1.37	−34 51.9	2.167	3.113	8.2	21.1
7 20	20 53.16	−35 38.0	2.134	3.112	6.2	21.0
7 30	20 43.84	−36 11.6	2.128	3.110	5.7	21.0
8 9	20 34.40	−36 28.8	2.148	3.109	7.2	21.1
8 19	20 25.82	−36 28.2	2.194	3.107	9.6	21.2
8 29	20 19.00	−36 10.5	2.264	3.105	12.1	21.4
9 8	20 14.50	−35 38.5	2.353	3.103	14.3	21.5

363363 2002 SZ_{42} 7 31.3 284°.71 4°.4/ 3.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 3.35	− 4 59.2	1.931	2.789	13.5	20.7
7 10	20 58.41	− 4 58.7	1.844	2.772	10.5	20.5
7 20	20 51.65	− 5 13.9	1.778	2.754	7.3	20.3
7 30	20 43.68	− 5 44.2	1.738	2.737	4.7	20.1
8 9	20 35.37	− 6 26.9	1.724	2.719	5.1	20.1
8 19	20 27.63	− 7 18.2	1.736	2.702	8.0	20.2
8 29	20 21.36	− 8 13.1	1.773	2.684	11.5	20.4
9 8	20 17.22	− 9 7.0	1.832	2.666	14.7	20.6

362507 2010 TA_{79} 7 31.3 12°.87 6°.0/ 4.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 1.57	− 0 6.7	1.994	2.832	13.9	20.2
7 10	20 56.95	+ 0 3.2	1.925	2.833	11.2	20.0
7 20	20 50.74	− 0 5.1	1.878	2.835	8.5	19.8
7 30	20 43.57	− 0 31.7	1.854	2.837	6.4	19.7
8 9	20 36.24	− 1 14.0	1.856	2.839	6.2	19.7
8 19	20 29.58	− 2 8.3	1.885	2.842	8.1	19.8
8 29	20 24.33	− 3 9.4	1.937	2.845	10.8	20.0
9 8	20 21.04	− 4 11.9	2.012	2.848	13.5	20.2

79579 1998 QY_{102} 7 31.3 246°.78 4°.5/28.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 9.46	−27 7.5	1.625	2.528	13.2	19.4
7 10	21 3.13	−28 1.8	1.560	2.521	9.6	19.2
7 20	20 54.34	−28 55.1	1.518	2.513	6.1	19.0
7 30	20 43.99	−29 39.9	1.501	2.505	4.5	18.9
8 9	20 33.36	−30 10.0	1.510	2.496	7.0	19.0
8 19	20 23.75	−30 22.2	1.544	2.488	10.7	19.2
8 29	20 16.35	−30 16.4	1.601	2.479	14.4	19.4
9 8	20 11.89	−29 54.9	1.677	2.470	17.6	19.6

473038 2015 HG_{75} 7 31.3 258°.78 2°.8/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 5.26	− 9 36.4	1.742	2.619	13.8	20.8
7 10	20 59.84	− 9 43.5	1.669	2.613	10.3	20.6
7 20	20 52.43	−10 3.9	1.618	2.607	6.5	20.3
7 30	20 43.78	−10 35.6	1.592	2.601	3.1	20.1
8 9	20 34.86	−11 14.8	1.592	2.594	4.3	20.2
8 19	20 26.72	−11 57.3	1.619	2.588	8.2	20.4
8 29	20 20.29	−12 38.7	1.670	2.581	12.0	20.6
9 8	20 16.25	−13 15.6	1.742	2.575	15.4	20.8

515272 2012 TR_{26} 7 31.3 280°.99 1°.1/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 6.84	−19 24.7	1.829	2.724	12.4	22.5
7 10	21 1.12	−19 52.9	1.740	2.700	8.9	22.3
7 20	20 53.24	−20 26.6	1.676	2.676	4.9	22.0
7 30	20 43.88	−21 1.6	1.637	2.651	1.1	21.7
8 9	20 34.08	−21 33.1	1.625	2.627	4.4	21.8
8 19	20 24.93	−21 57.3	1.640	2.602	8.8	22.0
8 29	20 17.52	−22 11.8	1.679	2.577	12.8	22.2
9 8	20 12.61	−22 15.9	1.739	2.552	16.3	22.4

368656 2005 ER_{203} 7 31.3 103°.19 2°.1/30.3 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 11.71	−21 53.1	1.485	2.385	14.4	22.0
7 10	21 4.48	−22 21.4	1.439	2.400	10.2	21.7
7 20	20 54.91	−22 51.7	1.415	2.415	5.6	21.5
7 30	20 44.05	−23 18.3	1.417	2.430	2.1	21.3
8 9	20 33.24	−23 36.3	1.445	2.444	5.2	21.6
8 19	20 23.77	−23 43.1	1.498	2.458	9.6	21.9
8 29	20 16.69	−23 38.3	1.575	2.471	13.5	22.1
9 8	20 12.55	−23 23.3	1.671	2.484	16.8	22.4

287943 2003 UA_{74} 7 31.3 334°.85 1°.1/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 4.26	−18 28.0	1.594	2.498	13.4	20.5
7 10	20 59.31	−19 12.5	1.529	2.493	9.5	20.2
7 20	20 52.21	−20 4.5	1.486	2.488	5.1	20.0
7 30	20 43.76	−20 58.5	1.469	2.483	1.2	19.7
8 9	20 35.05	−21 48.6	1.477	2.479	4.6	19.9
8 19	20 27.24	−22 29.9	1.511	2.475	9.1	20.2
8 29	20 21.35	−22 59.3	1.567	2.472	13.1	20.4
9 8	20 18.08	−23 15.8	1.644	2.469	16.5	20.6

220387 2003 QN_{48} 7 31.3 304°.71 0°.2/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 2.95	−17 23.0	2.164	3.055	10.9	20.6
7 10	20 57.96	−17 44.4	2.084	3.041	7.8	20.4
7 20	20 51.33	−18 11.6	2.028	3.028	4.3	20.1
7 30	20 43.65	−18 41.3	1.999	3.014	0.5	19.8
8 9	20 35.75	−19 10.2	1.998	3.001	3.4	20.0
8 19	20 28.44	−19 35.0	2.023	2.988	7.2	20.2
8 29	20 22.53	−19 53.6	2.074	2.975	10.5	20.4
9 8	20 18.60	−20 4.8	2.146	2.962	13.5	20.6

92294 2000 EV_{112} 7 31.3 58°.08 2°.7/30.1 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 10.30	−21 54.4	1.113	2.029	16.9	18.8
7 10	21 3.99	−22 32.8	1.074	2.043	11.9	18.5
7 20	20 54.81	−23 14.4	1.055	2.057	6.6	18.3
7 30	20 44.04	−23 51.5	1.059	2.072	2.7	18.1
8 9	20 33.37	−24 17.3	1.087	2.087	6.3	18.4
8 19	20 24.38	−24 28.4	1.138	2.103	11.3	18.7
8 29	20 18.28	−24 24.4	1.210	2.118	15.8	19.0
9 8	20 15.64	−24 7.1	1.299	2.134	19.5	19.3

75857 2000 CQ_{8} 7 31.3 224°.38 1°.8/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 6.91	−13 9.0	1.976	2.855	12.4	19.8
7 10	21 0.78	−12 59.4	1.904	2.852	9.1	19.6
7 20	20 52.85	−12 57.6	1.855	2.848	5.4	19.4
7 30	20 43.84	−13 1.8	1.832	2.844	2.0	19.1
8 9	20 34.65	−13 9.8	1.837	2.840	3.7	19.2
8 19	20 26.22	−13 19.0	1.870	2.836	7.5	19.5
8 29	20 19.40	−13 27.4	1.927	2.832	11.0	19.7
9 8	20 14.78	−13 33.0	2.007	2.828	14.1	19.9

350977 2003 FS_{31} 7 31.3 144°.41 1°.0/30.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 5.02	−20 2.1	2.504	3.390	9.8	22.2
7 10	20 59.12	−20 31.4	2.443	3.398	6.9	22.0
7 20	20 51.82	−21 3.3	2.407	3.406	3.7	21.8
7 30	20 43.71	−21 34.6	2.399	3.413	1.0	21.6
8 9	20 35.53	−22 2.1	2.421	3.420	3.4	21.8
8 19	20 28.00	−22 23.4	2.470	3.427	6.5	22.0
8 29	20 21.80	−22 37.3	2.546	3.433	9.4	22.2
9 8	20 17.38	−22 43.4	2.644	3.439	11.8	22.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
218206 2002 TP_{217}			7 31.3 355.°90		3.°5/29.7 17	
	h m	° ′			°	m
6 30	21 2.62	−22 48.0	0.997	1.928	16.9	19.6
7 10	20 59.01	−23 29.2	0.946	1.922	12.1	19.3
7 20	20 52.36	−24 14.7	0.913	1.917	6.9	19.0
7 30	20 43.79	−24 56.1	0.902	1.914	3.5	18.8
8 9	20 34.99	−25 25.5	0.912	1.912	7.1	19.0
8 19	20 27.63	−25 37.8	0.943	1.912	12.4	19.3
8 29	20 23.12	−25 31.7	0.993	1.914	17.3	19.6
9 8	20 22.21	−25 8.9	1.059	1.917	21.4	19.9
391541 2007 SB_{14}			7 31.3 286.°96		6.°9/ 4.7 18	
6 30	21 3.03	+ 1 5.0	1.882	2.715	14.8	21.1
7 10	20 58.23	+ 1 21.2	1.796	2.699	12.2	20.9
7 20	20 51.58	+ 1 17.4	1.730	2.683	9.4	20.7
7 30	20 43.71	+ 0 52.7	1.688	2.667	7.3	20.5
8 9	20 35.48	+ 0 8.6	1.671	2.650	7.1	20.5
8 19	20 27.83	− 0 51.0	1.679	2.634	9.1	20.5
8 29	20 21.66	− 2 0.6	1.712	2.618	12.1	20.7
9 8	20 17.66	− 3 13.6	1.766	2.602	15.1	20.8
375482 2008 UY_{31}			7 31.3 204.°28		7.°7/25.9 17	
6 30	21 9.99	−36 50.8	1.858	2.749	12.4	20.4
7 10	21 3.43	−38 11.2	1.807	2.748	9.9	20.2
7 20	20 54.47	−39 22.0	1.779	2.746	8.1	20.1
7 30	20 44.03	−40 14.9	1.776	2.745	7.9	20.1
8 9	20 33.39	−40 44.5	1.799	2.743	9.5	20.2
8 19	20 23.85	−40 48.9	1.845	2.742	12.0	20.3
8 29	20 16.53	−40 30.0	1.913	2.740	14.6	20.5
9 8	20 12.11	−39 52.0	1.999	2.738	16.8	20.7
143832 2003 WQ_{159}			7 31.3 203.°78		1.°2/30.6 18	
6 30	21 8.33	−21 43.3	2.308	3.194	10.5	19.7
7 10	21 1.61	−21 51.3	2.235	3.191	7.5	19.5
7 20	20 53.24	−22 0.1	2.188	3.187	4.1	19.3
7 30	20 43.89	−22 6.9	2.169	3.182	1.2	19.1
8 9	20 34.41	−22 8.9	2.178	3.178	3.7	19.3
8 19	20 25.67	−22 4.5	2.216	3.173	7.1	19.5
8 29	20 18.44	−21 53.2	2.280	3.167	10.3	19.7
9 8	20 13.27	−21 35.4	2.366	3.161	13.0	19.8
23982 1999 LM_{12}			7 31.3 349.°86		8.°2/ 4.2 18	
6 30	20 58.93	− 2 18.2	1.115	2.002	19.2	17.0
7 10	20 56.04	− 1 35.4	1.051	1.990	15.5	16.8
7 20	20 50.65	− 1 17.9	1.004	1.979	11.7	16.5
7 30	20 43.61	− 1 28.0	0.977	1.970	8.7	16.3
8 9	20 36.20	− 2 3.9	0.971	1.964	8.7	16.3
8 19	20 29.80	− 3 0.0	0.986	1.958	11.6	16.4
8 29	20 25.65	− 4 7.9	1.021	1.955	15.6	16.7
9 8	20 24.58	− 5 18.2	1.074	1.954	19.5	16.9
260770 2005 NL			7 31.3 157.°18		1.°4/ 1.2 18	
6 30	21 6.30	−11 28.2	1.609	2.494	14.4	20.6
7 10	21 0.67	−12 12.8	1.546	2.497	10.5	20.4
7 20	20 52.92	−13 11.6	1.505	2.500	6.1	20.2
7 30	20 43.86	−14 20.0	1.489	2.503	1.8	19.9
8 9	20 34.58	−15 31.8	1.500	2.505	4.0	20.0
8 19	20 26.21	−16 40.6	1.538	2.507	8.5	20.3
8 29	20 19.74	−17 41.4	1.599	2.509	12.6	20.6
9 8	20 15.85	−18 31.0	1.682	2.510	16.1	20.8
508952 2004 TU_{38}			7 31.3 190.°48		6.°0/26.9 18	
6 30	21 11.37	−35 38.5	2.337	3.218	10.6	22.6
7 10	21 3.96	−36 35.2	2.278	3.216	8.3	22.4
7 20	20 54.59	−37 24.1	2.244	3.214	6.4	22.3
7 30	20 44.05	−37 59.0	2.237	3.212	6.1	22.3
8 9	20 33.36	−38 16.2	2.257	3.209	7.5	22.3
8 19	20 23.56	−38 14.1	2.304	3.205	9.7	22.5
8 29	20 15.58	−37 54.2	2.374	3.200	12.1	22.6
9 8	20 10.01	−37 19.4	2.465	3.195	14.2	22.8
111694 2002 CP_{10}			7 31.3 190.°33		6.°1/26.9 18	
6 30	21 10.92	−20 3.8	1.025	1.942	17.9	18.6
7 10	21 5.35	−23 27.3	0.972	1.942	12.7	18.3
7 20	20 56.13	−27 9.1	0.942	1.942	7.7	18.1
7 30	20 44.28	−30 47.3	0.937	1.941	6.4	18.0
8 9	20 31.60	−33 58.7	0.958	1.939	10.7	18.2
8 19	20 20.21	−36 28.2	1.002	1.938	15.9	18.5
8 29	20 12.05	−38 11.2	1.065	1.935	20.6	18.8
9 8	20 8.23	−39 12.4	1.144	1.933	24.4	19.1
257078 2008 FZ_{130}			7 31.3 334.°35		4.°0/ 3.1 18	
6 30	21 1.47	− 5 28.2	1.911	2.775	13.4	20.0
7 10	20 57.01	− 5 35.5	1.836	2.768	10.3	19.8
7 20	20 50.85	− 5 58.6	1.783	2.762	7.0	19.6
7 30	20 43.63	− 6 36.2	1.755	2.756	4.4	19.4
8 9	20 36.18	− 7 25.0	1.753	2.750	4.7	19.4
8 19	20 29.38	− 8 20.6	1.777	2.745	7.7	19.6
8 29	20 24.05	− 9 18.1	1.826	2.740	11.0	19.8
9 8	20 20.77	−10 13.0	1.897	2.736	14.1	20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
93859 2000 WM_{109}			7 31.3 263.°13		8.°4/25.3 18	
	h m	° ′			°	m
6 30	21 10.20	−37 41.3	1.783	2.674	12.9	18.7
7 10	21 3.79	−39 8.5	1.726	2.665	10.4	18.6
7 20	20 54.77	−40 25.9	1.692	2.656	8.7	18.5
7 30	20 44.09	−41 24.4	1.683	2.647	8.6	18.4
8 9	20 33.07	−41 57.5	1.698	2.638	10.3	18.5
8 19	20 23.15	−42 3.2	1.737	2.629	12.8	18.7
8 29	20 15.55	−41 43.2	1.797	2.620	15.5	18.8
9 8	20 11.06	−41 2.3	1.874	2.611	17.9	19.0
388955 2008 TW_{62}			7 31.3 257.°82		7.°4/ 5.2 18	
6 30	21 3.95	+ 3 6.4	1.952	2.771	14.9	21.7
7 10	20 58.81	+ 3 23.8	1.867	2.758	12.4	21.5
7 20	20 51.88	+ 3 20.4	1.802	2.745	9.8	21.3
7 30	20 43.76	+ 2 55.1	1.761	2.731	7.8	21.2
8 9	20 35.31	+ 2 9.2	1.745	2.717	7.6	21.1
8 19	20 27.43	+ 1 6.5	1.755	2.704	9.3	21.2
8 29	20 21.01	− 0 7.4	1.789	2.689	12.0	21.3
9 8	20 16.71	− 1 25.7	1.845	2.675	14.8	21.5
190526 2000 QC_{170}			7 31.3 313.°39		0.°5/31.5 18	
6 30	21 5.99	−16 32.6	1.428	2.331	14.7	19.9
7 10	21 0.87	−16 33.4	1.350	2.312	10.7	19.6
7 20	20 53.24	−16 42.3	1.293	2.293	6.0	19.3
7 30	20 43.94	−16 55.9	1.260	2.274	1.0	18.9
8 9	20 34.19	−17 10.2	1.251	2.256	4.5	19.1
8 19	20 25.34	−17 21.7	1.267	2.239	9.7	19.4
8 29	20 18.61	−17 27.4	1.306	2.222	14.3	19.6
9 8	20 14.85	−17 26.1	1.363	2.206	18.4	19.8
41841 2000 WF_{60}			7 31.3 256.°93		1.°9/ 1.5 18	
6 30	21 5.44	−11 28.8	1.916	2.793	12.7	19.0
7 10	20 59.93	−11 44.3	1.833	2.779	9.4	18.8
7 20	20 52.51	−12 11.2	1.773	2.765	5.6	18.5
7 30	20 43.85	−12 46.8	1.739	2.751	2.2	18.3
8 9	20 34.86	−13 27.4	1.733	2.736	3.8	18.3
8 19	20 26.52	−14 9.1	1.753	2.721	7.7	18.5
8 29	20 19.74	−14 48.1	1.799	2.706	11.5	18.7
9 8	20 15.21	−15 21.4	1.866	2.691	14.8	18.9
211794 2004 CY_{69}			7 31.3 235.°66		4.°6/27.9 18	
6 30	21 9.17	−31 41.4	2.403	3.290	10.1	21.2
7 10	21 2.39	−32 26.2	2.328	3.276	7.6	21.1
7 20	20 53.77	−33 6.5	2.278	3.262	5.4	20.9
7 30	20 43.99	−33 37.0	2.256	3.247	4.7	20.8
8 9	20 33.98	−33 53.7	2.262	3.232	6.3	20.9
8 19	20 24.67	−33 54.9	2.295	3.216	8.8	21.0
8 29	20 16.96	−33 40.7	2.352	3.200	11.5	21.2
9 8	20 11.46	−33 13.3	2.430	3.183	13.8	21.3
221709 2007 DK_{115}			7 31.3 42.°16		1.°2/ 1.2 18	
6 30	21 2.38	−12 38.0	2.013	2.897	11.9	20.3
7 10	20 57.50	−13 4.5	1.956	2.907	8.6	20.1
7 20	20 51.04	−13 40.6	1.921	2.917	5.0	19.9
7 30	20 43.67	−14 23.0	1.913	2.927	1.5	19.6
8 9	20 36.22	−15 7.8	1.933	2.937	3.3	19.8
8 19	20 29.52	−15 51.2	1.979	2.948	6.9	20.0
8 29	20 24.29	−16 29.7	2.050	2.959	10.3	20.3
9 8	20 21.04	−17 1.3	2.144	2.970	13.1	20.5
152183 2005 QK_{9}			7 31.3 266.°40		0.°2/31.4 18	
6 30	21 6.63	−15 31.0	1.715	2.606	13.3	20.8
7 10	21 1.03	−16 2.4	1.632	2.589	9.6	20.6
7 20	20 53.23	−16 43.6	1.572	2.571	5.3	20.3
7 30	20 43.96	−17 30.6	1.538	2.553	0.7	19.9
8 9	20 34.25	−18 18.2	1.531	2.535	4.1	20.1
8 19	20 25.25	−19 1.5	1.549	2.516	8.7	20.3
8 29	20 18.05	−19 36.9	1.592	2.497	12.9	20.6
9 8	20 13.42	−20 2.3	1.656	2.478	16.5	20.8
392529 2011 QU_{61}			7 31.3 326.°82		2.°8/ 1.9 18	
6 30	21 4.39	− 9 57.4	1.824	2.701	13.3	20.4
7 10	20 59.14	− 9 54.0	1.753	2.697	9.9	20.2
7 20	20 52.04	−10 2.3	1.705	2.694	6.2	20.0
7 30	20 43.81	−10 20.8	1.682	2.690	3.1	19.8
8 9	20 35.39	−10 46.6	1.685	2.687	4.2	19.9
8 19	20 27.72	−11 16.1	1.715	2.684	7.8	20.1
8 29	20 21.69	−11 45.7	1.769	2.681	11.4	20.3
9 8	20 17.89	−12 12.3	1.845	2.678	14.6	20.5
210206 2007 PL_{39}			7 31.3 333.°79		2.°8/ 1.7 18	
6 30	21 0.33	−10 24.8	0.984	1.900	18.6	19.4
7 10	20 57.47	−10 46.5	0.917	1.883	13.9	19.1
7 20	20 51.66	−11 31.4	0.868	1.866	8.5	18.7
7 30	20 43.81	−12 36.0	0.839	1.851	3.3	18.4
8 9	20 35.38	−13 52.6	0.831	1.838	5.5	18.5
8 19	20 28.03	−15 11.6	0.844	1.826	11.4	18.7
8 29	20 23.32	−16 23.6	0.877	1.815	17.0	19.0
9 8	20 22.21	−17 21.8	0.925	1.806	21.8	19.3

350945 2002 VT_{54} 7 31.3 297.°66 1.°4/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 7.44	−21 31.6	1.800	2.698	12.4	20.4
7 10	21 1.52	−21 40.0	1.719	2.679	8.9	20.1
7 20	20 53.45	−21 50.5	1.661	2.661	4.9	19.8
7 30	20 43.99	−21 59.2	1.629	2.643	1.4	19.6
8 9	20 34.22	−22 2.5	1.624	2.625	4.5	19.7
8 19	20 25.24	−21 58.0	1.645	2.607	8.7	20.0
8 29	20 18.09	−21 44.9	1.691	2.589	12.6	20.2
9 8	20 13.49	−21 23.6	1.756	2.572	16.0	20.3

337202 1999 XJ_{17} 7 31.3 259.°51 6.°0/ 2.9 18

6 30	21 10.10	− 2 9.9	2.283	3.108	12.8	20.6
7 10	21 3.06	− 1 11.4	2.183	3.084	10.4	20.4
7 20	20 54.19	− 0 24.1	2.106	3.060	7.9	20.2
7 30	20 44.09	+ 0 10.2	2.057	3.035	6.2	20.1
8 9	20 33.56	+ 0 30.7	2.035	3.010	6.4	20.0
8 19	20 23.49	+ 0 38.2	2.042	2.984	8.6	20.1
8 29	20 14.77	+ 0 34.8	2.074	2.957	11.4	20.2
9 8	20 8.06	+ 0 23.9	2.130	2.930	14.1	20.4

32484 2000 TV_{29} 7 31.3 45.°86 2.°2/30.8 18

6 30	21 16.09	−25 23.3	1.345	2.247	15.5	16.5
7 10	21 7.59	−24 49.2	1.303	2.264	11.1	16.2
7 20	20 56.56	−24 10.9	1.282	2.282	6.2	16.0
7 30	20 44.32	−23 25.4	1.287	2.300	2.3	15.8
8 9	20 32.44	−22 31.8	1.318	2.318	5.3	16.1
8 19	20 22.31	−21 31.8	1.374	2.338	9.9	16.4
8 29	20 14.95	−20 27.9	1.454	2.357	14.0	16.7
9 8	20 10.84	−19 22.8	1.554	2.377	17.4	17.0

452187 2015 RL_{92} 7 31.3 274.°90 1.°4/30.5 18

6 30	21 6.09	−21 46.6	2.187	3.079	10.8	20.6
7 10	21 0.12	−21 58.6	2.118	3.076	7.6	20.4
7 20	20 52.49	−22 11.9	2.074	3.073	4.2	20.2
7 30	20 43.87	−22 23.3	2.057	3.071	1.4	20.0
8 9	20 35.14	−22 29.9	2.068	3.068	3.9	20.2
8 19	20 27.15	−22 29.9	2.107	3.065	7.3	20.4
8 29	20 20.69	−22 22.3	2.170	3.062	10.5	20.6
9 8	20 16.30	−22 7.5	2.256	3.059	13.3	20.8

366457 2002 AU_{173} 7 31.3 90.°55 0.°5/31.0 17

6 30	21 9.80	−16 17.0	1.402	2.300	15.3	20.9
7 10	21 3.19	−17 11.2	1.361	2.321	10.8	20.7
7 20	20 54.27	−18 14.6	1.343	2.343	5.8	20.4
7 30	20 44.07	−19 20.1	1.349	2.364	0.7	20.1
8 9	20 33.93	−20 20.8	1.382	2.385	4.6	20.5
8 19	20 25.10	−21 11.2	1.440	2.405	9.4	20.8
8 29	20 18.60	−21 48.5	1.521	2.425	13.5	21.1
9 8	20 14.99	−22 12.1	1.622	2.444	16.8	21.4

183475 2003 CK_{2} 7 31.3 153.°72 1.°4/ 1.6 18

6 30	21 3.10	−10 38.2	2.696	3.560	9.9	21.3
7 10	20 57.72	−11 16.9	2.628	3.568	7.2	21.1
7 20	20 51.09	−12 4.5	2.585	3.575	4.3	20.9
7 30	20 43.71	−12 58.3	2.570	3.582	1.6	20.7
8 9	20 36.23	−13 54.9	2.585	3.588	2.8	20.8
8 19	20 29.26	−14 50.8	2.629	3.594	5.7	21.0
8 29	20 23.41	−15 43.0	2.700	3.599	8.5	21.2
9 8	20 19.13	−16 29.2	2.795	3.604	10.9	21.4

150652 2001 DG_{98} 7 31.3 75.°90 2.°6/ 2.9 18

6 30	21 2.42	− 5 3.2	2.278	3.130	11.9	19.6
7 10	20 57.38	− 6 10.0	2.217	3.146	9.0	19.4
7 20	20 50.95	− 7 32.1	2.180	3.161	5.8	19.3
7 30	20 43.70	− 9 5.6	2.171	3.177	3.0	19.1
8 9	20 36.35	−10 45.2	2.192	3.193	3.5	19.2
8 19	20 29.63	−12 25.1	2.241	3.209	6.3	19.4
8 29	20 24.20	−13 59.8	2.318	3.224	9.3	19.6
9 8	20 20.53	−15 25.4	2.419	3.240	12.0	19.8

302098 2001 FG_{31} 7 31.3 164.°11 5.°7/ 7.7 18

6 30	21 1.27	+10 27.5	3.923	4.656	9.5	23.0
7 10	20 56.12	+10 34.2	3.846	4.664	8.2	22.9
7 20	20 50.12	+10 27.3	3.790	4.670	6.9	22.9
7 30	20 43.61	+10 6.6	3.760	4.677	6.0	22.8
8 9	20 37.03	+ 9 32.7	3.757	4.682	5.7	22.8
8 19	20 30.79	+ 8 47.6	3.782	4.687	6.2	22.8
8 29	20 25.30	+ 7 53.8	3.834	4.691	7.2	22.9
9 8	20 20.89	+ 6 54.7	3.910	4.695	8.5	23.0

257258 2009 FP_{45} 7 31.3 59.°79 4.°1/ 2.6 17

6 30	21 6.44	− 7 14.4	1.245	2.132	17.6	20.3
7 10	21 1.02	− 7 26.2	1.198	2.145	13.3	20.1
7 20	20 53.19	− 7 58.3	1.170	2.158	8.5	19.9
7 30	20 43.98	− 8 47.7	1.164	2.172	4.6	19.7
8 9	20 34.70	− 9 48.2	1.183	2.185	5.4	19.8
8 19	20 26.67	−10 52.7	1.226	2.199	9.7	20.1
8 29	20 20.98	−11 54.5	1.291	2.214	14.0	20.4
9 8	20 18.24	−12 48.5	1.376	2.228	17.7	20.7

373536 2001 TM_{176} 7 31.3 296.°11 2.°8/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 5.56	−10 8.1	1.562	2.446	14.8	20.6
7 10	21 0.26	−10 13.0	1.492	2.440	11.0	20.4
7 20	20 52.79	−10 31.9	1.443	2.434	6.8	20.1
7 30	20 43.94	−11 2.8	1.419	2.429	3.2	19.9
8 9	20 34.82	−11 41.4	1.420	2.423	4.5	20.0
8 19	20 26.56	−12 23.1	1.447	2.418	8.7	20.2
8 29	20 20.21	−13 3.3	1.497	2.412	12.9	20.4
9 8	20 16.47	−13 38.3	1.567	2.407	16.5	20.7

398285 2010 UL_{71} 7 31.3 353.°85 1.°6/ 1.3 18

6 30	21 3.16	−12 33.4	1.914	2.798	12.4	21.1
7 10	20 58.20	−12 44.2	1.846	2.796	9.1	20.9
7 20	20 51.52	−13 4.7	1.801	2.795	5.3	20.6
7 30	20 43.79	−13 32.4	1.781	2.794	1.9	20.4
8 9	20 35.90	−14 3.9	1.789	2.793	3.6	20.5
8 19	20 28.74	−14 35.7	1.823	2.792	7.4	20.8
8 29	20 23.12	−15 4.5	1.881	2.792	10.9	21.0
9 8	20 19.64	−15 27.9	1.962	2.792	14.0	21.2

412224 2013 GR_{134} 7 31.3 137.°65 2.°2/ 1.5 17

6 30	21 7.78	−11 10.1	1.320	2.212	16.4	21.6
7 10	21 2.07	−11 33.6	1.260	2.214	12.1	21.4
7 20	20 53.86	−12 13.2	1.221	2.216	7.2	21.1
7 30	20 44.08	−13 4.8	1.206	2.219	2.6	20.8
8 9	20 34.07	−14 2.1	1.216	2.221	4.7	21.0
8 19	20 25.18	−14 58.5	1.250	2.222	9.6	21.3
8 29	20 18.60	−15 48.8	1.307	2.224	14.2	21.5
9 8	20 15.05	−16 29.2	1.383	2.226	18.1	21.8

26284 1998 SZ_{59} 7 31.3 42.°83 2.°4/ 1.8 18

6 30	21 4.68	− 9 47.1	1.364	2.256	16.0	18.1
7 10	20 59.75	−10 24.3	1.309	2.262	11.8	17.9
7 20	20 52.53	−11 19.3	1.274	2.268	7.1	17.6
7 30	20 43.93	−12 27.3	1.263	2.275	2.8	17.4
8 9	20 35.16	−13 41.6	1.277	2.282	4.5	17.5
8 19	20 27.45	−14 54.7	1.316	2.289	9.1	17.8
8 29	20 21.87	−16 0.5	1.377	2.297	13.5	18.1
9 8	20 19.07	−16 54.8	1.459	2.305	17.2	18.3

316339 2010 RZ_{128} 7 31.3 200.°52 1.°1/ 1.1 18

6 30	21 3.92	−13 40.6	2.534	3.409	10.1	21.6
7 10	20 58.41	−13 49.3	2.460	3.407	7.3	21.4
7 20	20 51.52	−14 4.5	2.410	3.404	4.2	21.2
7 30	20 43.81	−14 24.1	2.388	3.401	1.3	21.0
8 9	20 35.97	−14 45.8	2.395	3.398	2.9	21.2
8 19	20 28.69	−15 7.1	2.430	3.395	6.1	21.4
8 29	20 22.62	−15 25.9	2.491	3.392	9.0	21.5
9 8	20 18.24	−15 40.7	2.576	3.388	11.6	21.7

444231 2005 UX_{72} 7 31.3 304.°51 0.°9/30.7 17

6 30	21 4.48	−18 51.3	1.930	2.826	11.8	21.5
7 10	20 59.45	−19 21.6	1.834	2.794	8.5	21.2
7 20	20 52.39	−19 58.2	1.763	2.763	4.7	20.9
7 30	20 43.94	−20 37.2	1.717	2.732	1.0	20.6
8 9	20 35.01	−21 13.9	1.698	2.700	4.2	20.8
8 19	20 26.61	−21 44.5	1.706	2.669	8.4	21.0
8 29	20 19.77	−22 6.0	1.738	2.638	12.3	21.1
9 8	20 15.24	−22 17.3	1.791	2.607	15.7	21.3

155036 2005 QH_{133} 7 31.3 238.°41 0.°3/31.2 18

6 30	21 7.89	−17 20.0	1.808	2.699	12.8	21.2
7 10	21 1.80	−17 45.7	1.732	2.688	9.1	21.0
7 20	20 53.61	−18 18.3	1.678	2.678	5.0	20.7
7 30	20 44.08	−18 53.7	1.651	2.666	0.6	20.3
8 9	20 34.23	−19 27.3	1.651	2.655	4.0	20.6
8 19	20 25.15	−19 55.5	1.678	2.642	8.4	20.8
8 29	20 17.86	−20 15.6	1.730	2.630	12.3	21.0
9 8	20 13.06	−20 26.6	1.802	2.617	15.7	21.2

211822 2004 EV_{20} 7 31.3 265.°07 20.°7/16.9 18

6 30	21 27.21	−56 9.7	1.075	1.931	22.0	19.3
7 10	21 19.35	−58 47.9	1.045	1.922	20.9	19.2
7 20	21 4.76	−60 49.7	1.032	1.913	20.8	19.2
7 30	20 45.44	−61 55.0	1.034	1.904	21.5	19.2
8 9	20 25.49	−61 54.1	1.051	1.895	23.0	19.3
8 19	20 9.28	−60 50.5	1.082	1.885	24.9	19.4
8 29	19 59.61	−58 57.3	1.125	1.876	26.9	19.5
9 8	19 56.98	−56 30.5	1.179	1.866	28.7	19.7

264023 2009 QA_{8} 7 31.3 30.°80 3.°3/ 2.2 18

6 30	21 4.07	− 9 17.3	1.809	2.685	13.4	19.8
7 10	20 58.79	− 8 58.8	1.754	2.696	10.1	19.6
7 20	20 51.80	− 8 52.1	1.721	2.708	6.5	19.4
7 30	20 43.85	− 8 56.1	1.714	2.720	3.6	19.3
8 9	20 35.87	− 9 8.3	1.733	2.733	4.4	19.4
8 19	20 28.75	− 9 25.8	1.777	2.746	7.6	19.6
8 29	20 23.28	− 9 45.4	1.847	2.760	11.0	19.8
9 8	20 19.98	−10 4.0	1.938	2.774	13.9	20.0

294248 2007 UT_{58} 7 31.3 123°.86 2°.3/ 1.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 4.74	−10 38.4	1.933	2.809	12.7	20.8
7 10	20 59.30	−10 45.1	1.865	2.810	9.4	20.6
7 20	20 52.12	−11 2.8	1.820	2.811	5.8	20.4
7 30	20 43.90	−11 29.3	1.802	2.812	2.6	20.2
8 9	20 35.52	−12 1.4	1.810	2.813	3.8	20.3
8 19	20 27.88	−12 35.6	1.845	2.814	7.4	20.5
8 29	20 21.81	−13 8.2	1.905	2.815	10.9	20.7
9 8	20 17.88	−13 36.7	1.987	2.815	13.9	20.9

368564 2004 CB_{84} 7 31.3 238°.43 0°.5/31.6 18

6 30	21 7.79	−15 5.4	1.729	2.617	13.4	21.7
7 10	21 1.80	−15 31.9	1.652	2.607	9.7	21.4
7 20	20 53.66	−16 8.0	1.598	2.595	5.4	21.1
7 30	20 44.10	−16 49.6	1.569	2.584	0.9	20.8
8 9	20 34.18	−17 32.1	1.568	2.572	4.0	21.0
8 19	20 25.05	−18 10.8	1.593	2.559	8.5	21.2
8 29	20 17.74	−18 42.4	1.642	2.546	12.6	21.5
9 8	20 12.99	−19 5.1	1.712	2.533	16.1	21.7

163888 2003 SK_{191} 7 31.3 276°.94 1°.4/30.5 18

6 30	21 6.81	−20 36.6	1.819	2.716	12.4	20.4
7 10	21 1.02	−21 0.6	1.746	2.706	8.8	20.2
7 20	20 53.17	−21 28.2	1.696	2.696	4.8	19.9
7 30	20 44.04	−21 55.1	1.672	2.686	1.4	19.7
8 9	20 34.64	−22 17.1	1.675	2.676	4.4	19.8
8 19	20 26.06	−22 31.1	1.704	2.665	8.5	20.1
8 29	20 19.27	−22 35.5	1.758	2.655	12.3	20.3
9 8	20 14.93	−22 30.2	1.832	2.645	15.5	20.5

273355 2006 UN_{90} 7 31.3 283°.60 1°.8/30.4 18

6 30	21 8.35	−20 34.8	1.509	2.412	14.1	21.1
7 10	21 2.63	−21 7.8	1.427	2.390	10.1	20.8
7 20	20 54.31	−21 46.7	1.367	2.368	5.6	20.5
7 30	20 44.19	−22 25.7	1.332	2.346	1.8	20.2
8 9	20 33.53	−22 58.8	1.323	2.324	5.3	20.4
8 19	20 23.71	−23 21.4	1.339	2.301	10.2	20.6
8 29	20 16.03	−23 31.1	1.377	2.279	14.8	20.8
9 8	20 11.37	−23 28.0	1.434	2.256	18.6	21.0

366163 2012 FQ_{34} 7 31.3 307°.08 3°.6/ 3.4 18

6 30	21 0.63	− 4 35.6	2.384	3.235	11.5	20.1
7 10	20 56.19	− 4 54.5	2.304	3.228	8.9	20.0
7 20	20 50.37	− 5 27.4	2.247	3.221	6.1	19.8
7 30	20 43.70	− 6 12.7	2.216	3.215	3.9	19.6
8 9	20 36.84	− 7 7.6	2.212	3.208	4.1	19.6
8 19	20 30.48	− 8 8.2	2.236	3.202	6.5	19.8
8 29	20 25.28	− 9 10.3	2.287	3.196	9.3	19.9
9 8	20 21.75	−10 10.0	2.361	3.190	12.0	20.1

280038 2001 YH_{89} 7 31.3 138°.93 0°.1/31.3 18

6 30	21 8.40	−17 18.9	2.076	2.960	11.6	21.3
7 10	21 1.74	−17 38.9	2.018	2.971	8.3	21.1
7 20	20 53.38	−18 4.0	1.984	2.982	4.5	20.9
7 30	20 44.06	−18 30.6	1.978	2.993	0.5	20.6
8 9	20 34.68	−18 55.2	2.000	3.003	3.5	20.8
8 19	20 26.16	−19 15.2	2.050	3.012	7.2	21.1
8 29	20 19.26	−19 28.8	2.125	3.021	10.6	21.3
9 8	20 14.53	−19 35.3	2.223	3.029	13.4	21.5

521478 2015 OH_{93} 7 31.3 22°.02 7°.3/26.2 18

6 30	21 6.60	−36 3.2	1.857	2.754	12.2	20.6
7 10	21 0.96	−37 17.5	1.813	2.758	9.6	20.4
7 20	20 53.14	−38 22.6	1.792	2.763	7.7	20.3
7 30	20 44.03	−39 10.9	1.796	2.769	7.5	20.3
8 9	20 34.83	−39 37.6	1.825	2.775	9.0	20.4
8 19	20 26.70	−39 41.1	1.878	2.782	11.4	20.6
8 29	20 20.65	−39 23.1	1.952	2.789	13.9	20.8
9 8	20 17.26	−38 47.2	2.045	2.796	16.2	21.0

472844 2015 FM_{275} 7 31.3 48°.67 7°.2/27.3 17

6 30	21 9.72	−33 1.1	1.501	2.406	14.0	20.5
7 10	21 3.46	−34 13.1	1.457	2.412	10.7	20.3
7 20	20 54.60	−35 17.1	1.436	2.419	7.9	20.2
7 30	20 44.21	−36 3.9	1.438	2.425	7.3	20.1
8 9	20 33.76	−36 27.8	1.465	2.432	9.2	20.3
8 19	20 24.66	−36 26.8	1.515	2.439	12.3	20.5
8 29	20 18.08	−36 3.2	1.587	2.447	15.4	20.7
9 8	20 14.65	−35 21.6	1.676	2.454	18.2	20.9

15940 1997 YU_{13} 7 31.3 350°.06 0°.6/30.9 18

6 30	21 4.83	−18 35.1	1.886	2.782	12.1	17.8
7 10	20 59.46	−18 58.8	1.821	2.781	8.6	17.6
7 20	20 52.26	−19 27.6	1.779	2.779	4.6	17.4
7 30	20 43.95	−19 57.6	1.764	2.778	0.8	17.1
8 9	20 35.48	−20 24.9	1.775	2.777	3.9	17.3
8 19	20 27.81	−20 46.3	1.813	2.777	7.9	17.6
8 29	20 21.81	−20 59.7	1.875	2.776	11.4	17.8
9 8	20 18.07	−21 4.5	1.958	2.776	14.5	18.0

114902 2003 QN_{25} 7 31.3 128°.71 1°.2/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 9.03	−14 44.5	2.006	2.885	12.2	19.6
7 10	21 2.20	−14 37.5	1.946	2.895	8.8	19.5
7 20	20 53.65	−14 36.8	1.910	2.905	5.0	19.2
7 30	20 44.12	−14 40.4	1.902	2.915	1.4	19.0
8 9	20 34.56	−14 45.8	1.921	2.924	3.5	19.2
8 19	20 25.88	−14 50.8	1.968	2.933	7.2	19.4
8 29	20 18.88	−14 53.7	2.041	2.942	10.7	19.7
9 8	20 14.09	−14 53.4	2.136	2.950	13.6	19.9

284071 2005 EQ_{157} 7 31.3 278°.35 2°.5/ 1.9 18

6 30	21 4.11	− 9 49.3	1.865	2.742	13.1	21.2
7 10	20 59.00	−10 4.6	1.790	2.734	9.8	21.0
7 20	20 52.06	−10 32.7	1.737	2.727	6.1	20.8
7 30	20 43.95	−11 11.4	1.709	2.719	2.8	20.5
8 9	20 35.58	−11 56.7	1.709	2.712	3.9	20.6
8 19	20 27.90	−12 44.4	1.735	2.704	7.7	20.8
8 29	20 21.80	−13 30.3	1.786	2.697	11.4	21.0
9 8	20 17.91	−14 10.8	1.858	2.690	14.6	21.2

482952 2014 KP_{26} 7 31.3 14°.88 0°.5/31.7 18

6 30	21 2.88	−14 32.0	1.902	2.793	12.2	21.2
7 10	20 58.05	−15 3.6	1.839	2.794	8.8	21.0
7 20	20 51.48	−15 44.1	1.798	2.796	4.9	20.7
7 30	20 43.88	−16 29.9	1.784	2.799	0.9	20.4
8 9	20 36.12	−17 16.5	1.797	2.802	3.5	20.6
8 19	20 29.12	−17 59.7	1.836	2.805	7.4	20.9
8 29	20 23.68	−18 36.3	1.900	2.808	11.0	21.1
9 8	20 20.37	−19 4.4	1.986	2.811	14.0	21.3

247111 2000 TZ_{63} 7 31.3 297°.00 7°.3/ 4.9 18 R

6 30	21 2.83	+ 2 27.9	2.067	2.887	14.1	20.0
7 10	20 58.01	+ 3 0.7	1.980	2.871	11.8	19.8
7 20	20 51.50	+ 3 15.4	1.914	2.855	9.4	19.6
7 30	20 43.90	+ 3 10.3	1.872	2.840	7.6	19.5
8 9	20 35.97	+ 2 46.2	1.854	2.824	7.4	19.4
8 19	20 28.57	+ 2 5.7	1.863	2.808	9.0	19.5
8 29	20 22.52	+ 1 13.2	1.895	2.793	11.5	19.6
9 8	20 18.44	+ 0 14.3	1.949	2.777	14.2	19.8

476967 2008 YL_{13} 7 31.3 295°.51 6°.3/ 1.4 16

6 30	21 16.01	− 7 7.5	1.752	2.602	15.0	20.7
7 10	21 7.93	− 5 29.5	1.646	2.568	11.9	20.5
7 20	20 57.23	− 3 56.7	1.563	2.534	8.7	20.2
7 30	20 44.61	− 2 32.5	1.508	2.499	6.5	20.0
8 9	20 31.22	− 1 20.1	1.481	2.464	7.4	19.9
8 19	20 18.36	− 0 21.8	1.482	2.429	10.8	20.1
8 29	20 7.35	+ 0 22.4	1.508	2.393	14.7	20.2
9 8	19 59.15	+ 0 54.5	1.555	2.358	18.3	20.4

32986 1996 XQ_{6} 7 31.3 334°.24 11°.5/24.3 18

6 30	21 10.90	−42 17.1	1.411	2.304	15.5	17.1
7 10	21 4.96	−43 48.3	1.362	2.295	13.1	16.9
7 20	20 55.73	−45 2.8	1.334	2.286	11.7	16.8
7 30	20 44.40	−45 49.1	1.328	2.278	11.8	16.8
8 9	20 32.81	−46 0.2	1.343	2.271	13.5	16.9
8 19	20 22.79	−45 35.3	1.379	2.264	16.0	17.0
8 29	20 15.86	−44 38.7	1.433	2.258	18.7	17.2
9 8	20 12.78	−43 18.3	1.503	2.252	21.1	17.4

365747 2010 WB_{33} 7 31.3 305°.07 3°.1/28.8 18

6 30	21 3.92	−25 34.7	2.262	3.159	10.2	20.8
7 10	20 58.69	−26 29.0	2.197	3.156	7.3	20.6
7 20	20 51.81	−27 23.4	2.158	3.154	4.5	20.5
7 30	20 43.93	−28 12.9	2.146	3.151	3.1	20.4
8 9	20 35.86	−28 53.2	2.161	3.148	5.1	20.5
8 19	20 28.47	−29 21.4	2.203	3.145	8.1	20.7
8 29	20 22.54	−29 36.4	2.270	3.142	10.9	20.8
9 8	20 18.62	−29 38.5	2.357	3.140	13.4	21.0

232279 2002 RV_{41} 7 31.3 24°.42 11°.4/29.9 17

6 30	21 18.39	−42 50.8	1.017	1.918	19.4	18.3
7 10	21 9.81	−42 51.2	0.999	1.942	15.7	18.2
7 20	20 57.83	−42 24.7	1.000	1.968	12.7	18.1
7 30	20 44.57	−41 24.5	1.020	1.995	11.4	18.1
8 9	20 32.40	−39 51.5	1.063	2.024	12.6	18.3
8 19	20 23.09	−37 53.5	1.126	2.055	15.2	18.6
8 29	20 17.60	−35 40.7	1.210	2.087	18.1	18.9
9 8	20 16.05	−33 22.8	1.311	2.120	20.8	19.1

5835 Mainfranken 7 31.3 222°.33 1°.6/ 1.7 18

6 30	21 3.01	−11 24.3	2.732	3.598	9.7	18.3
7 10	20 57.74	−11 32.0	2.651	3.591	7.2	18.1
7 20	20 51.19	−11 47.2	2.595	3.584	4.3	17.9
7 30	20 43.87	−12 8.2	2.567	3.577	1.9	17.7
8 9	20 36.38	−12 32.8	2.567	3.569	2.9	17.8
8 19	20 29.37	−12 58.8	2.596	3.561	5.7	18.0
8 29	20 23.45	−13 23.7	2.652	3.553	8.5	18.2
9 8	20 19.07	−13 45.7	2.732	3.545	11.0	18.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
99655 2002 HL_6			7 31.3 126°.66		0°.2/31.2 17	
	h m	° ′			°	m
6 30	21 10.98	−17 59.3	1.474	2.370	14.7	20.0
7 10	21 4.15	−18 9.8	1.418	2.377	10.5	19.8
7 20	20 54.93	−18 26.4	1.384	2.384	5.7	19.6
7 30	20 44.32	−18 44.7	1.375	2.390	0.7	19.2
8 9	20 33.63	−19 0.3	1.393	2.396	4.5	19.5
8 19	20 24.15	−19 10.2	1.435	2.402	9.3	19.8
8 29	20 16.95	−19 12.6	1.502	2.408	13.5	20.1
9 8	20 12.68	−19 7.4	1.588	2.413	17.0	20.3
476122 2007 TO_{215}			7 31.3 351°.40		3°.2/29.5 18	
6 30	21 7.36	−25 29.6	1.858	2.757	12.0	21.2
7 10	21 1.35	−26 4.7	1.797	2.757	8.6	21.0
7 20	20 53.34	−26 39.2	1.760	2.757	5.1	20.8
7 30	20 44.13	−27 7.7	1.749	2.757	3.2	20.6
8 9	20 34.79	−27 25.9	1.765	2.756	5.5	20.8
8 19	20 26.38	−27 31.4	1.806	2.756	9.0	21.0
8 29	20 19.83	−27 24.0	1.872	2.756	12.3	21.2
9 8	20 15.75	−27 4.8	1.958	2.756	15.2	21.4
188537 2004 RX_{291}			7 31.3 291°.17		4°.6/ 3.6 18	
6 30	21 2.41	− 3 23.2	2.249	3.094	12.3	20.0
7 10	20 57.55	− 3 12.8	2.167	3.085	9.7	19.9
7 20	20 51.19	− 3 16.4	2.109	3.076	7.0	19.7
7 30	20 43.89	− 3 33.8	2.075	3.067	4.9	19.5
8 9	20 36.37	− 4 3.1	2.069	3.059	5.0	19.5
8 19	20 29.39	− 4 41.3	2.089	3.050	7.2	19.7
8 29	20 23.67	− 5 24.7	2.135	3.041	10.0	19.8
9 8	20 19.75	− 6 9.3	2.204	3.033	12.7	20.0
88906 Moutier			7 31.3 356°.79		1°.9/31.9 18	
6 30	21 7.22	−16 25.4	1.116	2.028	17.1	18.0
7 10	21 2.02	−15 40.5	1.058	2.023	12.5	17.7
7 20	20 53.98	−15 2.3	1.020	2.020	7.2	17.4
7 30	20 44.23	−14 29.7	1.004	2.017	2.2	17.1
8 9	20 34.29	−14 1.2	1.011	2.016	5.1	17.3
8 19	20 25.72	−13 35.4	1.040	2.017	10.6	17.6
8 29	20 19.81	−13 11.0	1.091	2.018	15.5	17.9
9 8	20 17.26	−12 46.4	1.159	2.021	19.6	18.1
260071 2004 HK_{56}			7 31.3 187°.12		0°.4/31.6 18	
6 30	21 6.29	−14 6.2	1.665	2.554	13.7	20.2
7 10	21 0.73	−14 54.9	1.599	2.554	9.8	20.0
7 20	20 53.09	−15 55.1	1.556	2.554	5.5	19.7
7 30	20 44.12	−17 1.9	1.539	2.554	0.8	19.4
8 9	20 34.91	−18 9.1	1.549	2.553	4.0	19.7
8 19	20 26.55	−19 10.7	1.585	2.552	8.5	19.9
8 29	20 20.05	−20 2.7	1.645	2.551	12.5	20.2
9 8	20 16.08	−20 42.7	1.726	2.549	15.9	20.4
164362 2005 EH_{13}			7 31.3 351°.76		0°.4/31.6 18	
6 30	21 4.41	−15 15.7	1.608	2.505	13.7	20.0
7 10	20 59.43	−15 44.0	1.543	2.503	9.8	19.8
7 20	20 52.38	−16 22.1	1.501	2.501	5.5	19.5
7 30	20 44.04	−17 5.7	1.484	2.499	0.8	19.2
8 9	20 35.49	−17 49.8	1.493	2.498	4.0	19.4
8 19	20 27.83	−18 29.6	1.528	2.497	8.5	19.7
8 29	20 22.04	−19 1.7	1.586	2.497	12.6	19.9
9 8	20 18.77	−19 24.0	1.664	2.497	16.0	20.2
523730 2014 OH_{394}			7 31.3 319°.76		0°.1/ 1.2 17	
6 30	20 45.33	−14 42.2	40.097	40.967	0.7	22.3
7 10	20 44.61	−14 44.3	40.018	40.963	0.5	22.3
7 20	20 43.83	−14 46.7	39.967	40.960	0.3	22.2
7 30	20 43.02	−14 49.4	39.943	40.956	0.1	22.2
8 9	20 42.20	−14 52.2	39.949	40.953	0.2	22.2
8 19	20 41.41	−14 55.1	39.984	40.949	0.4	22.3
8 29	20 40.67	−14 57.9	40.046	40.946	0.7	22.3
9 8	20 40.02	−15 0.5	40.135	40.942	0.9	22.3
150622 2000 YD_{81}			7 31.3 157°.23		3°.5/ 3.2 18	
6 30	21 3.45	− 5 1.0	2.752	3.592	10.4	20.4
7 10	20 57.98	− 4 55.5	2.680	3.598	8.1	20.3
7 20	20 51.31	− 5 0.7	2.633	3.603	5.6	20.1
7 30	20 43.92	− 5 15.7	2.613	3.608	3.7	20.0
8 9	20 36.44	− 5 38.9	2.621	3.613	3.9	20.0
8 19	20 29.48	− 6 7.9	2.658	3.617	6.0	20.2
8 29	20 23.60	− 6 39.9	2.721	3.621	8.4	20.3
9 8	20 19.23	− 7 12.1	2.809	3.624	10.6	20.5
98374 2000 TD_{23}			7 31.3 189°.92		0°.1/31.4 18	
6 30	21 9.38	−16 6.7	1.620	2.511	14.0	20.6
7 10	21 2.99	−16 33.5	1.554	2.511	10.0	20.4
7 20	20 54.35	−17 8.9	1.511	2.510	5.5	20.1
7 30	20 44.31	−17 48.4	1.493	2.508	0.7	19.8
8 9	20 34.04	−18 26.9	1.502	2.506	4.2	20.1
8 19	20 24.72	−19 0.0	1.538	2.504	8.8	20.3
8 29	20 17.43	−19 24.9	1.597	2.501	12.9	20.6
9 8	20 12.84	−19 40.3	1.677	2.498	16.4	20.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
507150 2009 WB_{248}			7 31.3 256°.55		0°.8/30.9 18	
	h m	° ′			°	m
6 30	21 8.32	−18 50.3	1.875	2.765	12.4	22.0
7 10	21 2.20	−19 17.8	1.790	2.747	8.9	21.8
7 20	20 53.95	−19 51.0	1.729	2.728	4.8	21.5
7 30	20 44.28	−20 25.7	1.694	2.709	0.9	21.2
8 9	20 34.21	−20 57.2	1.687	2.689	4.2	21.4
8 19	20 24.82	−21 21.9	1.707	2.669	8.5	21.6
8 29	20 17.16	−21 37.5	1.751	2.648	12.4	21.8
9 8	20 11.97	−21 43.4	1.817	2.626	15.8	22.0
321380 2009 OE_{19}			7 31.3 350°.89		1°.6/30.6 18	
6 30	21 7.14	−22 53.3	1.795	2.695	12.4	19.8
7 10	21 1.21	−22 47.0	1.729	2.690	8.8	19.5
7 20	20 53.28	−22 40.7	1.686	2.686	4.9	19.3
7 30	20 44.18	−22 31.0	1.669	2.683	1.6	19.1
8 9	20 34.98	−22 15.4	1.679	2.680	4.4	19.3
8 19	20 26.72	−21 52.8	1.715	2.677	8.4	19.5
8 29	20 20.33	−21 23.2	1.775	2.676	12.0	19.7
9 8	20 16.40	−20 47.6	1.856	2.675	15.1	19.9
21064 Yangliwei			7 31.3 53°.77		1°.0/30.7 18	
6 30	21 4.14	−19 16.6	2.042	2.937	11.3	18.6
7 10	20 58.82	−19 49.9	1.989	2.948	8.0	18.4
7 20	20 51.88	−20 27.2	1.959	2.960	4.3	18.2
7 30	20 44.01	−21 4.6	1.957	2.971	1.0	18.0
8 9	20 36.09	−21 38.0	1.982	2.983	3.8	18.2
8 19	20 28.97	−22 4.5	2.034	2.995	7.3	18.5
8 29	20 23.41	−22 22.3	2.111	3.008	10.6	18.7
9 8	20 19.89	−22 30.9	2.209	3.020	13.3	18.9
320563 2008 AT_{78}			7 31.3 154°.59		0°.3/31.2 17	
6 30	21 9.49	−17 13.8	1.705	2.595	13.4	21.6
7 10	21 2.92	−17 41.0	1.644	2.601	9.5	21.4
7 20	20 54.24	−18 14.9	1.607	2.606	5.2	21.1
7 30	20 44.31	−18 51.1	1.596	2.611	0.6	20.8
8 9	20 34.24	−19 24.8	1.613	2.616	4.1	21.1
8 19	20 25.16	−19 52.3	1.655	2.620	8.5	21.4
8 29	20 18.04	−20 11.3	1.723	2.623	12.3	21.6
9 8	20 13.50	−20 21.1	1.811	2.626	15.6	21.8
377780 2005 YQ_{218}			7 31.4 121°.29		2°.7/29.6 18	
6 30	21 8.05	−23 7.3	1.881	2.778	12.0	21.1
7 10	21 1.77	−24 1.5	1.829	2.789	8.5	20.9
7 20	20 53.55	−24 57.2	1.801	2.800	4.8	20.7
7 30	20 44.22	−25 48.6	1.801	2.810	2.7	20.6
8 9	20 34.81	−26 30.5	1.827	2.820	5.1	20.8
8 19	20 26.33	−26 59.6	1.880	2.830	8.7	21.0
8 29	20 19.70	−27 15.0	1.957	2.840	12.0	21.2
9 8	20 15.46	−27 17.5	2.055	2.849	14.7	21.5
255842 2006 SG_{111}			7 31.4 121°.24		2°.4/ 1.5 17	
6 30	21 9.45	−12 2.9	1.508	2.393	15.1	20.6
7 10	21 3.01	−11 56.6	1.449	2.399	11.1	20.4
7 20	20 54.33	−12 1.8	1.412	2.405	6.7	20.2
7 30	20 44.32	−12 16.2	1.400	2.411	2.7	19.9
8 9	20 34.19	−12 36.2	1.413	2.417	4.5	20.1
8 19	20 25.14	−12 58.0	1.452	2.422	8.8	20.3
8 29	20 18.21	−13 18.3	1.515	2.428	13.0	20.6
9 8	20 14.04	−13 34.4	1.598	2.433	16.5	20.8
447277 2005 UK_{454}			7 31.4 318°.20		1°.7/ 1.1 17	
6 30	21 5.81	−14 35.4	1.754	2.643	13.1	21.0
7 10	21 0.45	−14 13.8	1.667	2.621	9.7	20.7
7 20	20 53.00	−13 58.9	1.603	2.599	5.7	20.5
7 30	20 44.18	−13 49.2	1.565	2.578	1.9	20.2
8 9	20 34.98	−13 42.8	1.553	2.557	4.0	20.3
8 19	20 26.48	−13 37.6	1.566	2.536	8.3	20.5
8 29	20 19.71	−13 31.9	1.604	2.516	12.4	20.7
9 8	20 15.39	−13 24.0	1.663	2.497	15.9	20.9
40573 1999 RE_{130}			7 31.4 265°.84		2°.0/29.9 18	
6 30	21 6.64	−23 45.0	2.465	3.354	9.8	18.7
7 10	21 0.60	−24 6.9	2.377	3.333	7.0	18.5
7 20	20 52.91	−24 29.3	2.315	3.313	4.0	18.3
7 30	20 44.16	−24 48.6	2.280	3.291	2.0	18.1
8 9	20 35.15	−25 1.6	2.274	3.270	4.1	18.2
8 19	20 26.69	−25 6.3	2.296	3.248	7.3	18.4
8 29	20 19.58	−25 1.8	2.344	3.225	10.3	18.6
9 8	20 14.40	−24 48.5	2.414	3.203	13.0	18.7
491094 2011 SN_{23}			7 31.4 298°.30		5°.7/ 3.5 16	
6 30	21 3.88	− 3 5.6	1.855	2.707	14.2	21.1
7 10	20 59.01	− 2 44.5	1.763	2.684	11.4	20.9
7 20	20 52.21	− 2 39.8	1.692	2.660	8.3	20.6
7 30	20 44.09	− 2 52.2	1.645	2.637	6.0	20.5
8 9	20 35.54	− 3 20.3	1.624	2.613	6.1	20.4
8 19	20 27.52	− 4 0.8	1.628	2.590	8.8	20.5
8 29	20 21.00	− 4 49.1	1.656	2.567	12.2	20.7
9 8	20 16.71	− 5 40.1	1.706	2.544	15.5	20.8

476055 2007 RF_{316} 7 31.4 273°.76 0°.0/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 5.94	−16 26.3	1.944	2.833	12.1	21.7
7 10	21 0.42	−16 49.4	1.858	2.814	8.7	21.5
7 20	20 52.94	−17 20.0	1.796	2.795	4.8	21.2
7 30	20 44.18	−17 54.5	1.761	2.776	0.6	20.9
8 9	20 35.04	−18 28.8	1.752	2.756	3.7	21.1
8 19	20 26.53	−18 59.3	1.771	2.736	7.9	21.3
8 29	20 19.60	−19 23.2	1.814	2.716	11.7	21.5
9 8	20 14.95	−19 38.8	1.879	2.696	15.0	21.7

238162 2003 SB_{86} 7 31.4 331°.61 9°.4/27.0 18

6 30	21 11.74	−38 44.7	1.437	2.335	15.0	19.8
7 10	21 5.35	−39 33.3	1.377	2.321	12.1	19.6
7 20	20 55.88	−40 7.8	1.339	2.309	9.9	19.4
7 30	20 44.52	−40 18.6	1.323	2.297	9.5	19.3
8 9	20 32.97	−40 0.2	1.330	2.286	11.2	19.4
8 19	20 22.91	−39 12.2	1.360	2.275	14.1	19.6
8 29	20 15.74	−37 59.0	1.409	2.266	17.2	19.7
9 8	20 12.17	−36 27.5	1.476	2.257	20.1	19.9

509740 2008 TA_{20} 7 31.4 285°.13 2°.1/30.2 18

6 30	21 6.98	−21 37.5	1.714	2.615	12.8	22.0
7 10	21 1.39	−22 13.1	1.636	2.598	9.1	21.8
7 20	20 53.56	−22 52.7	1.582	2.582	5.1	21.5
7 30	20 44.26	−23 31.0	1.553	2.565	2.1	21.2
8 9	20 34.57	−24 2.7	1.550	2.549	5.0	21.4
8 19	20 25.69	−24 23.9	1.573	2.533	9.3	21.6
8 29	20 18.70	−24 32.8	1.620	2.516	13.3	21.8
9 8	20 14.34	−24 29.5	1.687	2.500	16.7	22.0

311128 2004 QZ_{26} 7 31.4 207°.02 0°.4/31.6 18

6 30	21 5.05	−16 22.5	2.414	3.295	10.3	20.9
7 10	20 59.32	−16 27.1	2.342	3.293	7.4	20.7
7 20	20 52.13	−16 36.4	2.294	3.291	4.1	20.5
7 30	20 44.07	−16 48.3	2.275	3.289	0.7	20.2
8 9	20 35.89	−17 0.2	2.283	3.287	3.0	20.4
8 19	20 28.32	−17 10.2	2.320	3.284	6.4	20.6
8 29	20 22.07	−17 16.6	2.383	3.282	9.4	20.8
9 8	20 17.62	−17 18.4	2.469	3.279	12.1	21.0

243382 2008 YZ_{17} 7 31.4 192°.64 0°.9/30.6 18

6 30	21 5.50	−18 27.1	2.343	3.228	10.4	21.3
7 10	20 59.76	−19 16.4	2.271	3.227	7.4	21.1
7 20	20 52.43	−20 10.9	2.226	3.225	4.0	20.8
7 30	20 44.11	−21 6.4	2.208	3.222	0.9	20.6
8 9	20 35.60	−21 58.6	2.219	3.219	3.6	20.8
8 19	20 27.69	−22 43.9	2.258	3.215	7.0	21.0
8 29	20 21.14	−23 19.9	2.323	3.211	10.1	21.2
9 8	20 16.50	−23 45.6	2.411	3.206	12.8	21.4

46687 1997 AP_{18} 7 31.4 121°.15 1°.6/30.5 18

6 30	21 9.74	−19 49.7	1.640	2.536	13.5	19.6
7 10	21 3.12	−20 34.6	1.588	2.548	9.5	19.4
7 20	20 54.35	−21 24.3	1.561	2.561	5.2	19.1
7 30	20 44.34	−22 12.8	1.559	2.572	1.6	18.9
8 9	20 34.27	−22 54.5	1.584	2.584	4.7	19.2
8 19	20 25.29	−23 25.5	1.635	2.595	9.0	19.4
8 29	20 18.39	−23 44.3	1.710	2.605	12.7	19.7
9 8	20 14.16	−23 51.0	1.806	2.615	15.9	19.9

469919 2005 YS_{161} 7 31.4 241°.96 2°.9/ 1.9 18

6 30	21 6.37	− 9 53.5	1.728	2.605	13.9	21.5
7 10	21 0.72	− 9 51.2	1.658	2.602	10.4	21.2
7 20	20 53.07	−10 1.3	1.610	2.599	6.6	21.0
7 30	20 44.20	−10 22.2	1.587	2.596	3.2	20.8
8 9	20 35.10	−10 50.5	1.591	2.593	4.3	20.9
8 19	20 26.81	−11 22.6	1.621	2.590	8.2	21.1
8 29	20 20.29	−11 54.5	1.675	2.587	12.0	21.3
9 8	20 16.17	−12 23.0	1.750	2.584	15.3	21.5

187978 2001 QT_{218} 7 31.4 321°.05 6°.0/ 4.6 18

6 30	21 1.58	− 0 43.9	1.378	2.241	17.6	19.8
7 10	20 57.79	− 1 17.7	1.300	2.228	14.0	19.5
7 20	20 51.71	− 2 20.8	1.242	2.215	10.1	19.2
7 30	20 44.05	− 3 52.2	1.205	2.202	6.7	19.0
8 9	20 35.94	− 5 45.7	1.193	2.190	6.5	19.0
8 19	20 28.59	− 7 51.9	1.206	2.179	9.8	19.1
8 29	20 23.19	− 9 59.7	1.241	2.168	14.0	19.3
9 8	20 20.55	−11 59.2	1.298	2.158	18.0	19.6

331887 2004 EL_{67} 7 31.4 106°.07 0°.6/31.7 17

6 30	21 8.49	−14 41.8	1.629	2.518	14.0	21.4
7 10	21 2.18	−15 8.4	1.576	2.531	10.0	21.2
7 20	20 53.82	−15 44.3	1.547	2.545	5.6	20.9
7 30	20 44.28	−16 25.1	1.543	2.558	1.0	20.6
8 9	20 34.70	−17 6.0	1.566	2.571	3.9	20.9
8 19	20 26.16	−17 42.6	1.615	2.583	8.3	21.2
8 29	20 19.62	−18 11.9	1.689	2.595	12.2	21.4
9 8	20 15.63	−18 32.4	1.783	2.607	15.5	21.7

220470 2004 BV_{97} 7 31.4 243°.09 2°.4/ 1.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 5.91	− 9 37.6	1.634	2.513	14.5	20.7
7 10	21 0.56	−10 6.7	1.560	2.506	10.8	20.4
7 20	20 53.08	−10 51.4	1.508	2.499	6.6	20.2
7 30	20 44.22	−11 48.6	1.481	2.492	2.8	19.9
8 9	20 35.02	−12 52.9	1.480	2.484	4.2	20.0
8 19	20 26.60	−13 58.5	1.506	2.476	8.5	20.2
8 29	20 20.00	−14 59.9	1.555	2.468	12.6	20.5
9 8	20 15.95	−15 52.9	1.626	2.460	16.2	20.7

29103 1981 EC_{22} 7 31.4 139°.20 1°.0/31.9 18

6 30	21 8.93	−14 2.8	1.311	2.208	16.1	19.3
7 10	21 3.00	−14 27.6	1.252	2.211	11.7	19.0
7 20	20 54.49	−15 5.1	1.215	2.213	6.6	18.7
7 30	20 44.39	−15 50.5	1.201	2.216	1.4	18.4
8 9	20 34.07	−16 37.6	1.213	2.218	4.6	18.6
8 19	20 24.91	−17 20.6	1.248	2.220	9.8	19.0
8 29	20 18.15	−17 55.5	1.307	2.222	14.4	19.2
9 8	20 14.48	−18 19.8	1.384	2.223	18.3	19.5

439737 2015 FM_{212} 7 31.4 352°.46 9°.8/24.5 17

6 30	21 7.96	−37 27.0	1.445	2.349	14.5	19.8
7 10	21 2.69	−39 20.2	1.400	2.346	11.8	19.6
7 20	20 54.49	−41 2.3	1.377	2.343	10.0	19.5
7 30	20 44.40	−42 21.7	1.377	2.341	10.1	19.5
8 9	20 34.00	−43 10.2	1.400	2.340	12.0	19.6
8 19	20 24.90	−43 25.4	1.444	2.339	14.8	19.8
8 29	20 18.51	−43 9.6	1.507	2.338	17.6	20.0
9 8	20 15.58	−42 28.8	1.587	2.339	20.0	20.1

373696 2002 RE_{141} 7 31.4 270°.74 7°.5/26.7 18

6 30	21 11.81	−34 0.9	1.619	2.517	13.6	20.8
7 10	21 5.30	−35 17.8	1.548	2.498	10.6	20.6
7 20	20 55.92	−36 28.5	1.500	2.479	8.1	20.4
7 30	20 44.59	−37 23.4	1.476	2.459	7.7	20.3
8 9	20 32.74	−37 54.9	1.477	2.439	9.8	20.4
8 19	20 21.91	−37 59.5	1.502	2.418	13.0	20.6
8 29	20 13.53	−37 38.5	1.548	2.397	16.3	20.7
9 8	20 8.48	−36 56.4	1.612	2.376	19.3	20.9

322593 2012 BE_{21} 7 31.4 190°.14 2°.2/ 2.2 18

6 30	21 2.80	− 9 3.8	2.767	3.625	9.9	21.9
7 10	20 57.59	− 9 11.4	2.690	3.624	7.4	21.8
7 20	20 51.16	− 9 27.7	2.639	3.623	4.7	21.6
7 30	20 43.98	− 9 51.3	2.614	3.621	2.5	21.5
8 9	20 36.68	−10 20.0	2.619	3.619	3.1	21.5
8 19	20 29.86	−10 51.3	2.652	3.617	5.7	21.7
8 29	20 24.10	−11 22.8	2.712	3.614	8.3	21.8
9 8	20 19.85	−11 52.0	2.796	3.612	10.7	22.0

46174 2001 FB_{93} 7 31.4 321°.29 1°.6/ 1.6 18

6 30	21 2.41	− 9 51.6	1.591	2.478	14.4	18.7
7 10	20 58.16	−10 52.3	1.516	2.467	10.6	18.4
7 20	20 51.81	−12 11.3	1.463	2.458	6.3	18.2
7 30	20 44.08	−13 43.9	1.435	2.448	2.1	17.9
8 9	20 35.98	−15 22.6	1.434	2.439	4.0	18.0
8 19	20 28.61	−16 59.7	1.458	2.430	8.6	18.2
8 29	20 23.00	−18 27.9	1.507	2.422	12.8	18.5
9 8	20 19.90	−19 42.7	1.576	2.414	16.5	18.7

501837 2014 WL_{135} 7 31.4 45°.09 1°.3/ 1.1 17

6 30	21 6.74	−12 55.7	1.261	2.161	16.5	21.0
7 10	21 1.47	−13 26.6	1.206	2.166	11.9	20.7
7 20	20 53.66	−14 12.3	1.172	2.170	6.8	20.4
7 30	20 44.30	−15 7.8	1.161	2.175	1.7	20.1
8 9	20 34.76	−16 6.0	1.174	2.180	4.6	20.3
8 19	20 26.39	−17 0.5	1.212	2.185	9.8	20.7
8 29	20 20.39	−17 46.1	1.272	2.191	14.4	20.9
9 8	20 17.45	−18 20.1	1.350	2.197	18.3	21.2

2502 Nummela 7 31.4 145°.61 6°.6/26.2 18

6 30	21 11.99	−40 31.5	2.618	3.485	10.1	17.1
7 10	21 4.32	−41 22.1	2.574	3.495	8.2	16.9
7 20	20 54.87	−42 1.7	2.555	3.505	6.9	16.9
7 30	20 44.44	−42 25.3	2.562	3.514	6.7	16.9
8 9	20 34.02	−42 30.0	2.596	3.523	7.8	17.0
8 19	20 24.55	−42 15.5	2.655	3.531	9.5	17.1
8 29	20 16.86	−41 43.8	2.739	3.538	11.4	17.2
9 8	20 11.46	−40 58.1	2.842	3.545	13.0	17.4

243629 1999 RX_{201} 7 31.4 351°.44 3°.5/ 1.4 18

6 30	21 7.58	−13 6.8	1.295	2.193	16.3	18.8
7 10	21 2.05	−12 10.4	1.231	2.187	12.1	18.6
7 20	20 53.99	−11 22.8	1.187	2.181	7.5	18.3
7 30	20 44.36	−10 44.1	1.167	2.177	3.7	18.1
8 9	20 34.51	−10 14.0	1.170	2.173	5.4	18.2
8 19	20 25.80	− 9 51.1	1.198	2.171	9.9	18.4
8 29	20 19.41	− 9 33.6	1.248	2.169	14.4	18.7
9 8	20 16.07	− 9 18.9	1.316	2.169	18.3	18.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V
471110 2010 CT_{19}			7 31.4 158°.76		1°.5/30.2 18	
	h m	° ′			°	m
6 30	21 6.36	−18 58.8	2.039	2.930	11.5	21.7
7 10	21 0.54	−20 5.8	1.977	2.935	8.1	21.5
7 20	20 52.94	−21 18.6	1.940	2.939	4.4	21.3
7 30	20 44.23	−22 31.6	1.930	2.944	1.5	21.1
8 9	20 35.34	−23 39.1	1.949	2.947	4.2	21.3
8 19	20 27.17	−24 36.5	1.995	2.951	7.9	21.5
8 29	20 20.60	−25 21.2	2.067	2.953	11.2	21.7
9 8	20 16.20	−25 52.5	2.160	2.956	14.0	21.9
147825 2005 SE_{206}			7 31.4 10°.49		0°.9/30.7 18	
6 30	21 2.85	−17 42.6	1.711	2.613	12.8	19.2
7 10	20 58.27	−18 33.3	1.652	2.614	9.0	19.0
7 20	20 51.77	−19 31.7	1.616	2.617	4.9	18.7
7 30	20 44.10	−20 32.4	1.605	2.619	1.0	18.5
8 9	20 36.26	−21 29.6	1.620	2.623	4.2	18.7
8 19	20 29.26	−22 18.4	1.662	2.627	8.4	19.0
8 29	20 24.00	−22 55.7	1.727	2.631	12.1	19.2
9 8	20 21.10	−23 20.4	1.813	2.636	15.3	19.4
349365 2007 VT_{223}			7 31.4 264°.23		1°.9/29.9 18	
6 30	21 5.73	−21 13.1	2.040	2.935	11.3	20.9
7 10	21 0.25	−22 2.3	1.960	2.920	8.1	20.7
7 20	20 52.88	−22 56.0	1.905	2.904	4.5	20.4
7 30	20 44.25	−23 49.1	1.876	2.889	1.9	20.2
8 9	20 35.29	−24 36.4	1.876	2.873	4.5	20.4
8 19	20 26.96	−25 14.1	1.902	2.857	8.3	20.5
8 29	20 20.19	−25 39.8	1.953	2.840	11.7	20.7
9 8	20 15.65	−25 53.1	2.025	2.824	14.7	20.9
267060 1998 WH_{42}			7 31.4 201°.42		3°.8/ 2.6 18	
6 30	21 7.25	− 6 59.6	1.877	2.738	13.7	21.0
7 10	21 1.26	− 6 56.6	1.803	2.735	10.5	20.8
7 20	20 53.38	− 7 7.7	1.751	2.732	7.0	20.6
7 30	20 44.31	− 7 31.6	1.725	2.728	4.1	20.4
8 9	20 35.01	− 8 5.4	1.726	2.724	4.7	20.5
8 19	20 26.43	− 8 45.3	1.753	2.719	7.9	20.7
8 29	20 19.49	− 9 27.0	1.806	2.714	11.5	20.9
9 8	20 14.81	−10 6.7	1.881	2.708	14.6	21.1
360400 2002 EH_{158}			7 31.4 131°.37		0°.2/31.5 18	
6 30	21 4.22	−16 1.5	2.410	3.292	10.3	22.0
7 10	20 58.74	−16 25.7	2.347	3.299	7.3	21.8
7 20	20 51.84	−16 55.5	2.308	3.306	4.0	21.6
7 30	20 44.11	−17 27.9	2.297	3.312	0.6	21.3
8 9	20 36.30	−17 59.9	2.315	3.318	3.0	21.5
8 19	20 29.12	−18 28.7	2.361	3.325	6.3	21.8
8 29	20 23.23	−18 52.1	2.432	3.330	9.3	22.0
9 8	20 19.13	−19 9.0	2.527	3.336	11.9	22.1
306630 2000 QF_{178}			7 31.4 358°.09		2°.1/30.9 16	
6 30	21 12.92	−24 51.6	1.265	2.174	15.8	19.4
7 10	21 5.93	−24 18.3	1.206	2.171	11.4	19.1
7 20	20 56.12	−23 40.9	1.168	2.169	6.4	18.8
7 30	20 44.66	−22 56.0	1.154	2.168	2.2	18.5
8 9	20 33.18	−22 1.9	1.165	2.167	5.5	18.8
8 19	20 23.21	−20 59.9	1.201	2.168	10.6	19.0
8 29	20 16.01	−19 52.8	1.258	2.170	15.1	19.3
9 8	20 12.21	−18 43.2	1.335	2.172	18.9	19.6
338090 2002 PM_{177}			7 31.4 172°.97		2°.4/30.1 18	
6 30	21 11.52	−25 44.6	2.303	3.187	10.6	20.8
7 10	21 3.97	−25 51.7	2.237	3.190	7.6	20.6
7 20	20 54.71	−25 56.5	2.197	3.192	4.4	20.4
7 30	20 44.49	−25 55.5	2.185	3.194	2.4	20.3
8 9	20 34.22	−25 46.2	2.202	3.195	4.4	20.4
8 19	20 24.82	−25 27.7	2.247	3.196	7.5	20.6
8 29	20 17.07	−25 0.5	2.319	3.197	10.5	20.8
9 8	20 11.51	−24 26.0	2.413	3.197	13.1	21.0
198254 2004 TJ_{224}			7 31.4 5°.37		1°.0/31.9 16	
6 30	21 5.11	−14 54.6	1.334	2.238	15.5	20.6
7 10	21 0.24	−15 3.4	1.276	2.238	11.2	20.4
7 20	20 52.99	−15 22.9	1.239	2.239	6.3	20.1
7 30	20 44.29	−15 49.4	1.226	2.240	1.4	19.8
8 9	20 35.41	−16 18.0	1.236	2.242	4.4	20.0
8 19	20 27.62	−16 44.2	1.271	2.245	9.4	20.3
8 29	20 22.04	−17 4.4	1.328	2.248	13.8	20.6
9 8	20 19.35	−17 16.6	1.404	2.252	17.6	20.8
485734 2012 BG_{73}			7 31.4 219°.42		0°.7/ 1.1 18	
6 30	21 2.48	−12 30.2	2.406	3.282	10.5	21.2
7 10	20 57.60	−13 21.6	2.331	3.279	7.6	21.0
7 20	20 51.29	−14 22.7	2.281	3.276	4.3	20.8
7 30	20 44.08	−15 29.9	2.259	3.273	1.0	20.5
8 9	20 36.67	−16 38.8	2.266	3.270	2.9	20.7
8 19	20 29.78	−17 45.2	2.301	3.266	6.3	20.9
8 29	20 24.10	−18 45.4	2.362	3.263	9.4	21.1
9 8	20 20.15	−19 37.0	2.447	3.259	12.1	21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
514674 2005 UE_{369}			7 31.4 240°.25		0°.1/31.3 18	
	h m	° ′			°	m
6 30	21 3.86	−16 50.3	2.540	3.423	9.8	22.7
7 10	20 58.55	−17 19.5	2.459	3.412	7.0	22.5
7 20	20 51.80	−17 54.1	2.403	3.401	3.8	22.3
7 30	20 44.14	−18 31.2	2.374	3.389	0.5	22.0
8 9	20 36.27	−19 7.5	2.374	3.377	3.0	22.2
8 19	20 28.90	−19 40.2	2.403	3.365	6.3	22.4
8 29	20 22.72	−20 6.9	2.458	3.353	9.3	22.6
9 8	20 18.26	−20 26.5	2.536	3.340	12.0	22.8
119432 2001 TL_{131}			7 31.4 343°.22		2°.5/29.9 18	
6 30	21 2.85	−19 39.1	1.196	2.116	15.6	19.4
7 10	20 59.05	−20 48.7	1.135	2.107	11.1	19.1
7 20	20 52.54	−22 8.7	1.095	2.098	6.1	18.8
7 30	20 44.26	−23 30.4	1.078	2.091	2.5	18.5
8 9	20 35.58	−24 44.1	1.084	2.084	6.3	18.8
8 19	20 28.00	−25 42.3	1.113	2.079	11.4	19.0
8 29	20 22.84	−26 20.8	1.163	2.075	16.1	19.3
9 8	20 20.93	−26 39.2	1.230	2.071	20.0	19.5
482371 2011 YH_{35}			7 31.4 140°.81		0°.6/31.8 18	
6 30	21 6.66	−16 27.2	2.460	3.338	10.3	21.2
7 10	21 0.41	−16 17.6	2.392	3.342	7.4	21.0
7 20	20 52.74	−16 11.9	2.349	3.345	4.1	20.8
7 30	20 44.26	−16 8.5	2.335	3.349	0.9	20.6
8 9	20 35.72	−16 5.4	2.349	3.352	2.9	20.8
8 19	20 27.84	−16 1.2	2.391	3.356	6.2	21.0
8 29	20 21.31	−15 54.9	2.461	3.359	9.2	21.2
9 8	20 16.58	−15 45.7	2.553	3.362	11.8	21.4
201516 2003 OE_{29}			7 31.4 316°.75		2°.8/30.0 18	
6 30	21 8.93	−24 23.9	1.671	2.572	13.0	19.8
7 10	21 2.72	−24 44.6	1.607	2.568	9.3	19.6
7 20	20 54.27	−25 5.2	1.566	2.565	5.4	19.4
7 30	20 44.47	−25 20.5	1.550	2.561	2.8	19.2
8 9	20 34.50	−25 26.3	1.561	2.557	5.4	19.3
8 19	20 25.56	−25 20.5	1.597	2.554	9.4	19.6
8 29	20 18.68	−25 3.0	1.657	2.551	13.1	19.8
9 8	20 14.51	−24 35.2	1.737	2.548	16.3	20.0
403897 2011 YX			7 31.4 318°.45		4°.1/27.8 18	
6 30	21 4.28	−26 31.6	2.086	2.986	10.8	20.5
7 10	20 59.23	−27 57.9	2.023	2.983	7.9	20.3
7 20	20 52.32	−29 24.8	1.986	2.979	5.1	20.1
7 30	20 44.24	−30 45.5	1.976	2.976	4.2	20.0
8 9	20 35.89	−31 53.9	1.994	2.973	6.2	20.1
8 19	20 28.22	−32 45.9	2.037	2.969	9.2	20.3
8 29	20 22.13	−33 20.0	2.105	2.966	12.1	20.5
9 8	20 18.24	−33 36.8	2.193	2.963	14.6	20.7
46028 2001 DT_{21}			7 31.4 147°.39		1°.5/30.2 18	
6 30	21 6.30	−19 35.6	2.159	3.049	11.0	19.6
7 10	21 0.42	−20 35.9	2.100	3.057	7.8	19.4
7 20	20 52.87	−21 40.7	2.065	3.064	4.2	19.2
7 30	20 44.30	−22 45.1	2.058	3.071	1.5	19.0
8 9	20 35.59	−23 43.8	2.080	3.078	4.0	19.2
8 19	20 27.59	−24 33.1	2.129	3.084	7.5	19.4
8 29	20 21.11	−25 10.7	2.204	3.089	10.7	19.6
9 8	20 16.70	−25 36.2	2.301	3.095	13.4	19.8
482143 2010 SE_{20}			7 31.4 284°.91		5°.9/ 4.9 18	
6 30	21 2.16	+ 0 45.7	2.206	3.033	13.1	21.5
7 10	20 57.50	+ 0 52.5	2.121	3.021	10.7	21.3
7 20	20 51.30	+ 0 41.8	2.058	3.010	8.2	21.1
7 30	20 44.12	+ 0 13.5	2.019	2.998	6.3	21.0
8 9	20 36.68	− 0 30.7	2.007	2.987	6.1	21.0
8 19	20 29.74	− 1 27.3	2.021	2.976	7.9	21.1
8 29	20 24.07	− 2 31.5	2.060	2.964	10.4	21.2
9 8	20 20.21	− 3 38.2	2.122	2.953	13.1	21.3
522782 2016 NM_{77}			7 31.4 14°.31		6°.4/26.8 18	
6 30	21 7.47	−30 5.5	1.589	2.496	13.3	20.3
7 10	21 1.98	−31 47.1	1.538	2.496	9.9	20.1
7 20	20 54.00	−33 25.7	1.510	2.497	7.1	19.9
7 30	20 44.46	−34 51.4	1.508	2.498	6.6	19.9
8 9	20 34.62	−35 56.3	1.530	2.499	8.8	20.0
8 19	20 25.84	−36 36.1	1.577	2.500	12.0	20.2
8 29	20 19.29	−36 51.0	1.645	2.501	15.2	20.4
9 8	20 15.71	−36 44.0	1.731	2.502	17.9	20.6
432824 2011 HM_{5}			7 31.4 41°.11		1°.0/ 1.1 16	
6 30	21 3.99	− 9 53.8	1.250	2.147	16.8	19.8
7 10	20 59.34	−11 30.6	1.215	2.173	12.1	19.6
7 20	20 52.42	−13 25.9	1.201	2.199	6.8	19.4
7 30	20 44.25	−15 30.4	1.212	2.226	1.5	19.2
8 9	20 36.10	−17 32.8	1.248	2.253	4.4	19.4
8 19	20 29.19	−19 23.4	1.309	2.281	9.3	19.8
8 29	20 24.52	−20 55.8	1.393	2.310	13.6	20.1
9 8	20 22.62	−22 7.2	1.498	2.339	17.0	20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
322405 2011 RB_{18}			7 31.4 258°.13		0°.3/31.6 18	
	h m	° ′			°	m
6 30	21 5.28	−15 55.9	2.023	2.910	11.8	21.6
7 10	20 59.80	−16 14.8	1.950	2.905	8.4	21.3
7 20	20 52.58	−16 40.6	1.902	2.900	4.7	21.1
7 30	20 44.28	−17 10.2	1.880	2.894	0.7	20.8
8 9	20 35.78	−17 39.8	1.885	2.889	3.4	21.0
8 19	20 27.97	−18 6.3	1.918	2.884	7.3	21.2
8 29	20 21.69	−18 27.2	1.975	2.879	10.9	21.5
9 8	20 17.53	−18 41.0	2.055	2.873	13.9	21.6
160321 2003 KP_{13}			7 31.4 59°.03		4°.6/27.7 18	
6 30	21 5.33	−28 7.8	1.990	2.891	11.3	19.6
7 10	20 59.93	−29 29.5	1.943	2.901	8.2	19.4
7 20	20 52.66	−30 49.0	1.921	2.912	5.5	19.3
7 30	20 44.28	−31 59.4	1.926	2.922	4.7	19.3
8 9	20 35.78	−32 55.2	1.957	2.933	6.6	19.4
8 19	20 28.13	−33 33.3	2.014	2.944	9.4	19.6
8 29	20 22.20	−33 53.1	2.095	2.955	12.2	19.8
9 8	20 18.58	−33 56.2	2.196	2.966	14.6	20.0
307557 2003 EX_{48}			7 31.4 178°.93		1°.0/30.9 17	
6 30	21 9.77	−17 42.2	1.457	2.355	14.8	20.8
7 10	21 3.54	−18 29.1	1.396	2.356	10.5	20.6
7 20	20 54.83	−19 24.8	1.357	2.357	5.7	20.3
7 30	20 44.57	−20 22.9	1.343	2.357	1.1	20.0
8 9	20 34.05	−21 16.5	1.355	2.357	4.9	20.2
8 19	20 24.60	−22 0.3	1.392	2.357	9.7	20.5
8 29	20 17.39	−22 31.3	1.453	2.356	14.0	20.8
9 8	20 13.16	−22 48.7	1.533	2.355	17.7	21.0
443020 2013 EX_{10}			7 31.4 355°.71		2°.9/30.4 18	
6 30	21 13.46	−27 40.6	1.798	2.690	12.7	19.5
7 10	21 5.70	−27 17.0	1.732	2.688	9.2	19.3
7 20	20 55.78	−26 47.6	1.690	2.686	5.4	19.0
7 30	20 44.67	−26 9.0	1.676	2.685	2.9	18.9
8 9	20 33.57	−25 19.8	1.688	2.684	5.1	19.0
8 19	20 23.67	−24 20.9	1.728	2.684	8.9	19.2
8 29	20 15.92	−23 14.6	1.793	2.684	12.5	19.5
9 8	20 10.89	−22 4.0	1.880	2.684	15.5	19.7
479472 2014 AV_{1}			7 31.4 290°.81		2°.1/30.2 18	
6 30	21 7.34	−21 28.3	1.593	2.496	13.4	21.4
7 10	21 1.86	−22 4.6	1.516	2.479	9.6	21.1
7 20	20 53.97	−22 45.6	1.461	2.461	5.4	20.8
7 30	20 44.47	−23 25.4	1.431	2.444	2.1	20.6
8 9	20 34.55	−23 58.5	1.427	2.426	5.3	20.7
8 19	20 25.47	−24 20.5	1.448	2.409	9.8	21.0
8 29	20 18.40	−24 29.4	1.492	2.391	14.0	21.2
9 8	20 14.16	−24 25.3	1.556	2.374	17.6	21.4
15511 1999 TD_{185}			7 31.4 4°.22		10°.5/ 4.4 18	
6 30	21 5.33	+ 1 15.0	1.290	2.143	19.1	16.4
7 10	21 0.43	+ 2 52.8	1.232	2.143	16.0	16.2
7 20	20 53.14	+ 4 7.7	1.193	2.143	13.0	16.0
7 30	20 44.36	+ 4 54.5	1.175	2.145	10.9	15.9
8 9	20 35.34	+ 5 11.9	1.179	2.147	10.8	15.9
8 19	20 27.35	+ 5 2.2	1.204	2.151	12.7	16.0
8 29	20 21.55	+ 4 31.4	1.250	2.156	15.6	16.2
9 8	20 18.63	+ 3 47.7	1.314	2.163	18.5	16.4
136749 1995 WM_{23}			7 31.4 144°.49		1°.0/30.9 17	
6 30	21 9.69	−18 51.1	1.731	2.624	13.1	21.3
7 10	21 3.09	−19 23.7	1.674	2.631	9.3	21.0
7 20	20 54.41	−20 1.5	1.639	2.639	5.0	20.8
7 30	20 44.51	−20 39.6	1.631	2.646	1.0	20.5
8 9	20 34.50	−21 13.2	1.650	2.652	4.3	20.8
8 19	20 25.48	−21 38.8	1.696	2.658	8.5	21.1
8 29	20 18.41	−21 54.4	1.766	2.664	12.3	21.3
9 8	20 13.91	−22 0.0	1.857	2.669	15.4	21.5
385791 2006 BN_{114}			7 31.4 237°.80		5°.8/29.1 18	
6 30	21 17.59	−34 27.4	1.878	2.760	12.7	20.6
7 10	21 8.78	−34 37.3	1.810	2.753	9.7	20.4
7 20	20 57.54	−34 36.6	1.766	2.746	7.0	20.2
7 30	20 44.90	−34 19.5	1.748	2.739	5.8	20.2
8 9	20 32.22	−33 43.0	1.758	2.731	7.4	20.2
8 19	20 20.83	−32 47.5	1.794	2.723	10.4	20.4
8 29	20 11.83	−31 36.8	1.855	2.715	13.6	20.6
9 8	20 5.82	−30 15.6	1.937	2.706	16.3	20.8
288932 2004 SJ_{33}			7 31.4 309°.24		7°.1/26.0 18	
6 30	21 7.43	−35 58.3	1.969	2.862	11.7	19.8
7 10	21 1.85	−37 6.2	1.893	2.837	9.3	19.6
7 20	20 53.94	−38 7.2	1.840	2.811	7.5	19.4
7 30	20 44.48	−38 53.7	1.812	2.786	7.3	19.3
8 9	20 34.57	−39 20.0	1.809	2.760	9.0	19.4
8 19	20 25.46	−39 23.3	1.830	2.735	11.6	19.5
8 29	20 18.28	−39 4.1	1.874	2.711	14.4	19.6
9 8	20 13.82	−38 25.6	1.935	2.686	16.9	19.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
523106 2016 RZ_{49}			7 31.4 331°.03		2°.4/ 1.8 18	
	h m	° ′			°	m
6 30	21 5.22	−11 9.5	1.782	2.662	13.4	21.6
7 10	20 59.90	−11 10.4	1.712	2.660	9.9	21.3
7 20	20 52.69	−11 22.4	1.666	2.657	6.1	21.1
7 30	20 44.31	−11 43.6	1.644	2.655	2.7	20.9
8 9	20 35.73	−12 10.7	1.649	2.652	4.0	21.0
8 19	20 27.93	−12 40.1	1.680	2.650	7.8	21.2
8 29	20 21.81	−13 8.2	1.736	2.648	11.6	21.4
9 8	20 18.00	−13 32.3	1.813	2.647	14.8	21.6
258994 2002 TH_{60}			7 31.4 245°.75		13°.9/28.2 15	
6 30	21 33.11	−46 0.5	1.139	2.012	19.8	20.5
7 10	21 21.73	−46 44.6	1.083	2.003	16.9	20.3
7 20	21 5.28	−47 0.1	1.046	1.994	14.6	20.1
7 30	20 45.87	−46 31.0	1.030	1.984	13.9	20.0
8 9	20 26.66	−45 10.7	1.035	1.974	15.4	20.1
8 19	20 10.61	−43 4.8	1.062	1.964	18.3	20.2
8 29	19 59.61	−40 27.4	1.109	1.953	21.7	20.4
9 8	19 54.14	−37 34.5	1.172	1.942	24.8	20.6
319171 2005 YS_{110}			7 31.4 299°.14		2°.6/ 2.0 17	
6 30	21 3.96	−10 14.9	2.124	2.996	11.9	21.2
7 10	20 58.85	−10 7.4	2.040	2.981	8.9	21.0
7 20	20 52.08	−10 9.7	1.979	2.966	5.6	20.8
7 30	20 44.24	−10 20.6	1.944	2.952	2.9	20.6
8 9	20 36.15	−10 37.9	1.936	2.937	3.8	20.6
8 19	20 28.62	−10 59.0	1.955	2.923	7.1	20.8
8 29	20 22.47	−11 20.9	2.000	2.909	10.5	21.0
9 8	20 18.28	−11 41.0	2.067	2.895	13.5	21.2
335091 2004 TE_{60}			7 31.4 298°.02		3°.8/ 2.4 17	
6 30	21 5.11	− 7 51.1	1.620	2.495	14.8	21.3
7 10	21 0.29	− 7 54.0	1.523	2.465	11.4	21.0
7 20	20 53.18	− 8 13.3	1.448	2.434	7.5	20.7
7 30	20 44.42	− 8 48.2	1.396	2.403	4.1	20.4
8 9	20 35.02	− 9 35.3	1.371	2.372	5.0	20.4
8 19	20 26.14	−10 29.9	1.370	2.341	9.1	20.5
8 29	20 18.99	−11 26.3	1.393	2.310	13.5	20.7
9 8	20 14.45	−12 19.3	1.436	2.279	17.5	20.9
39041 2000 UW_{89}			7 31.4 312°.88		5°.3/27.0 18	
6 30	21 4.63	−29 8.6	1.910	2.814	11.5	18.3
7 10	20 59.73	−30 38.2	1.843	2.802	8.6	18.1
7 20	20 52.73	−32 7.1	1.801	2.789	6.0	17.9
7 30	20 44.34	−33 27.5	1.784	2.777	5.4	17.8
8 9	20 35.59	−34 32.4	1.794	2.766	7.5	17.9
8 19	20 27.55	−35 17.7	1.830	2.754	10.5	18.1
8 29	20 21.28	−35 42.0	1.887	2.743	13.5	18.3
9 8	20 17.49	−35 46.7	1.964	2.733	16.2	18.4
77058 2001 DM_{12}			7 31.4 125°.18		2°.0/30.3 18	
6 30	21 10.34	−21 10.1	1.587	2.485	13.8	20.0
7 10	21 3.70	−21 48.6	1.533	2.494	9.7	19.7
7 20	20 54.80	−22 30.5	1.503	2.503	5.4	19.5
7 30	20 44.59	−23 9.9	1.499	2.512	2.0	19.3
8 9	20 34.29	−23 41.4	1.521	2.520	5.0	19.5
8 19	20 25.12	−24 1.7	1.569	2.528	9.3	19.8
8 29	20 18.11	−24 9.6	1.640	2.535	13.2	20.1
9 8	20 13.88	−24 5.8	1.731	2.542	16.4	20.3
282297 2002 QW_{79}			7 31.4 292°.87		0°.9/ 1.1 18	
6 30	21 3.64	−11 16.7	1.799	2.682	13.2	20.1
7 10	20 59.03	−12 26.0	1.709	2.660	9.7	19.8
7 20	20 52.39	−13 52.2	1.642	2.637	5.6	19.5
7 30	20 44.32	−15 30.6	1.601	2.615	1.3	19.2
8 9	20 35.74	−17 14.1	1.588	2.592	3.8	19.3
8 19	20 27.68	−18 55.2	1.602	2.570	8.3	19.5
8 29	20 21.18	−20 27.2	1.641	2.548	12.5	19.7
9 8	20 17.03	−21 45.4	1.702	2.525	16.1	19.9
243857 2000 WR_{102}			7 31.4 241°.19		2°.1/29.7 18	
6 30	21 5.25	−23 37.0	2.551	3.441	9.5	21.0
7 10	20 59.62	−24 16.4	2.472	3.429	6.8	20.8
7 20	20 52.45	−24 57.1	2.419	3.416	3.9	20.6
7 30	20 44.32	−25 35.0	2.394	3.403	2.2	20.5
8 9	20 35.96	−26 6.6	2.397	3.390	4.1	20.6
8 19	20 28.14	−26 29.3	2.428	3.377	7.1	20.8
8 29	20 21.60	−26 41.8	2.485	3.363	9.9	21.0
9 8	20 16.87	−26 44.2	2.565	3.348	12.4	21.1
159045 2004 TU_{115}			7 31.4 180°.70		1°.7/29.9 18	
6 30	21 3.94	−22 26.3	2.786	3.674	8.9	20.4
7 10	20 58.51	−23 8.5	2.719	3.675	6.3	20.2
7 20	20 51.77	−23 52.3	2.678	3.675	3.5	20.0
7 30	20 44.23	−24 34.0	2.665	3.675	1.7	19.9
8 9	20 36.57	−25 10.4	2.681	3.675	3.6	20.0
8 19	20 29.43	−25 39.1	2.725	3.675	6.3	20.2
8 29	20 23.44	−25 58.9	2.796	3.674	8.9	20.4
9 8	20 19.08	−26 9.3	2.889	3.672	11.2	20.5

311973 2007 EF_{52} 7 31.4 150°.55 2°.1/29.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 6.50	−24 59.4	2.718	3.605	9.1	21.3
7 10	21 0.28	−25 21.5	2.657	3.611	6.5	21.1
7 20	20 52.70	−25 42.7	2.622	3.618	3.8	20.9
7 30	20 44.34	−25 59.8	2.615	3.624	2.1	20.8
8 9	20 35.94	−26 10.2	2.637	3.629	3.9	21.0
8 19	20 28.20	−26 12.4	2.688	3.635	6.5	21.1
8 29	20 21.74	−26 6.2	2.764	3.640	9.1	21.3
9 8	20 17.02	−25 52.0	2.864	3.644	11.3	21.5

396191 2013 HX_{49} 7 31.4 182°.45 4°.2/ 3.6 18

6 30	21 3.05	− 3 54.6	2.437	3.279	11.6	20.9
7 10	20 57.95	− 3 45.9	2.362	3.279	9.1	20.8
7 20	20 51.49	− 3 49.8	2.311	3.279	6.5	20.6
7 30	20 44.20	− 4 5.9	2.286	3.279	4.4	20.5
8 9	20 36.77	− 4 32.2	2.289	3.279	4.6	20.5
8 19	20 29.88	− 5 6.0	2.318	3.278	6.7	20.6
8 29	20 24.18	− 5 44.1	2.374	3.278	9.3	20.8
9 8	20 20.15	− 6 23.0	2.453	3.278	11.7	20.9

135196 2001 RF_{38} 7 31.4 62°.69 1°.4/30.6 18

6 30	21 6.85	−20 54.8	1.897	2.792	12.0	19.7
7 10	21 0.97	−21 16.5	1.838	2.797	8.5	19.5
7 20	20 53.25	−21 40.8	1.802	2.802	4.6	19.3
7 30	20 44.45	−22 3.7	1.794	2.807	1.4	19.1
8 9	20 35.57	−22 21.6	1.812	2.813	4.1	19.3
8 19	20 27.56	−22 31.7	1.857	2.818	8.0	19.6
8 29	20 21.30	−22 33.1	1.926	2.823	11.4	19.8
9 8	20 17.33	−22 25.8	2.017	2.829	14.4	20.0

445804 2012 BJ_{67} 7 31.4 226°.47 2°.4/ 1.9 18

6 30	21 5.64	−10 39.8	2.385	3.250	11.0	21.5
7 10	20 59.82	−10 22.5	2.309	3.247	8.2	21.3
7 20	20 52.54	−10 13.2	2.257	3.243	5.2	21.2
7 30	20 44.38	−10 10.8	2.232	3.240	2.7	21.0
8 9	20 36.06	−10 13.7	2.236	3.236	3.5	21.0
8 19	20 28.35	−10 20.1	2.268	3.233	6.5	21.2
8 29	20 21.92	−10 28.1	2.325	3.229	9.5	21.4
9 8	20 17.29	−10 35.4	2.406	3.225	12.1	21.6

345021 2005 EF_{72} 7 31.4 179°.40 1°.2/30.5 18

6 30	21 5.71	−18 40.4	2.090	2.981	11.3	20.8
7 10	21 0.13	−19 38.5	2.024	2.981	8.0	20.6
7 20	20 52.82	−20 42.6	1.982	2.982	4.3	20.3
7 30	20 44.42	−21 47.5	1.968	2.982	1.2	20.1
8 9	20 35.81	−22 48.1	1.982	2.982	4.0	20.3
8 19	20 27.89	−23 40.0	2.024	2.982	7.6	20.6
8 29	20 21.49	−24 20.7	2.091	2.981	11.0	20.8
9 8	20 17.19	−24 49.1	2.180	2.980	13.8	21.0

477160 2009 DR_{133} 7 31.4 247°.99 0°.2/31.3 18

6 30	21 6.35	−17 23.0	2.179	3.064	11.1	21.6
7 10	21 0.58	−17 43.2	2.097	3.051	8.0	21.4
7 20	20 53.07	−18 8.9	2.040	3.038	4.4	21.1
7 30	20 44.46	−18 36.8	2.010	3.025	0.5	20.8
8 9	20 35.58	−19 3.6	2.008	3.011	3.4	21.0
8 19	20 27.30	−19 26.2	2.034	2.997	7.2	21.3
8 29	20 20.47	−19 42.6	2.085	2.983	10.6	21.4
9 8	20 15.69	−19 51.7	2.158	2.968	13.6	21.6

56439 2000 GD_{52} 7 31.4 325°.56 7°.4/27.9 18

6 30	21 7.10	−29 24.6	1.023	1.949	17.0	17.1
7 10	21 2.81	−30 35.8	0.962	1.932	12.8	16.8
7 20	20 54.99	−31 45.0	0.921	1.916	8.9	16.5
7 30	20 44.73	−32 40.1	0.900	1.900	7.6	16.4
8 9	20 33.89	−33 10.3	0.900	1.886	10.5	16.5
8 19	20 24.48	−33 10.7	0.921	1.872	15.1	16.7
8 29	20 18.26	−32 42.4	0.959	1.860	19.7	16.9
9 8	20 16.18	−31 50.6	1.013	1.848	23.7	17.2

66328 1999 JK_{58} 7 31.4 13°.10 3°.8/ 1.9 18

6 30	21 5.72	−11 2.2	1.040	1.947	18.5	17.8
7 10	21 1.09	−10 38.6	0.989	1.949	13.8	17.5
7 20	20 53.66	−10 31.6	0.958	1.953	8.6	17.3
7 30	20 44.53	−10 39.7	0.947	1.958	4.2	17.0
8 9	20 35.25	−10 58.8	0.959	1.963	5.7	17.1
8 19	20 27.34	−11 23.7	0.992	1.970	10.7	17.4
8 29	20 22.08	−11 49.1	1.046	1.978	15.5	17.7
9 8	20 20.17	−12 10.5	1.117	1.987	19.7	18.0

296533 2009 OM_{12} 7 31.4 315°.86 4°.0/ 2.9 18

6 30	21 3.38	− 6 20.3	2.109	2.968	12.5	20.2
7 10	20 58.43	− 6 4.5	2.029	2.959	9.6	20.0
7 20	20 51.87	− 6 1.0	1.973	2.950	6.6	19.8
7 30	20 44.31	− 6 9.5	1.942	2.942	4.3	19.7
8 9	20 36.52	− 6 28.1	1.938	2.934	4.6	19.7
8 19	20 29.32	− 6 54.1	1.961	2.926	7.3	19.8
8 29	20 23.49	− 7 24.1	2.009	2.918	10.4	20.0
9 8	20 19.57	− 7 54.6	2.079	2.911	13.3	20.2

286920 2002 PG_{104} 7 31.4 278°.46 4°.3/ 2.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 5.58	− 6 20.8	1.925	2.785	13.5	20.2
7 10	21 0.18	− 6 2.0	1.840	2.770	10.4	20.0
7 20	20 52.93	− 5 56.6	1.778	2.756	7.2	19.8
7 30	20 44.45	− 6 4.2	1.741	2.741	4.6	19.6
8 9	20 35.65	− 6 23.1	1.730	2.726	5.1	19.6
8 19	20 27.46	− 6 50.3	1.746	2.711	8.1	19.7
8 29	20 20.78	− 7 22.2	1.787	2.696	11.5	19.9
9 8	20 16.29	− 7 54.8	1.849	2.681	14.7	20.1

292816 2006 UZ_{254} 7 31.4 209°.11 1°.9/30.3 17

6 30	21 9.50	−21 8.7	1.874	2.766	12.3	21.6
7 10	21 3.05	−21 50.2	1.803	2.761	8.7	21.4
7 20	20 54.51	−22 35.5	1.756	2.755	4.8	21.1
7 30	20 44.65	−23 19.3	1.736	2.749	1.9	20.9
8 9	20 34.52	−23 56.5	1.744	2.742	4.7	21.1
8 19	20 25.21	−24 23.5	1.778	2.734	8.6	21.3
8 29	20 17.71	−24 38.7	1.837	2.726	12.3	21.5
9 8	20 12.69	−24 42.1	1.917	2.718	15.4	21.7

490147 2008 UZ_{158} 7 31.4 309°.55 3°.9/29.5 16

6 30	21 8.55	−25 24.2	1.467	2.375	14.1	21.9
7 10	21 3.21	−25 59.9	1.375	2.339	10.3	21.6
7 20	20 55.02	−26 37.1	1.306	2.304	6.3	21.3
7 30	20 44.76	−27 8.9	1.260	2.269	3.9	21.0
8 9	20 33.72	−27 28.4	1.239	2.234	6.8	21.1
8 19	20 23.43	−27 31.2	1.243	2.199	11.5	21.3
8 29	20 15.39	−27 16.2	1.268	2.164	16.1	21.5
9 8	20 10.61	−26 45.0	1.311	2.130	20.2	21.6

435740 2008 UB_{132} 7 31.4 320°.57 4°.6/28.9 18

6 30	21 6.99	−26 44.4	1.471	2.382	13.9	20.9
7 10	21 1.80	−27 35.1	1.404	2.369	10.1	20.7
7 20	20 54.04	−28 25.6	1.359	2.356	6.4	20.4
7 30	20 44.61	−29 8.2	1.339	2.344	4.6	20.3
8 9	20 34.82	−29 36.3	1.343	2.332	7.2	20.4
8 19	20 26.05	−29 46.3	1.370	2.321	11.2	20.6
8 29	20 19.56	−29 37.5	1.420	2.310	15.1	20.8
9 8	20 16.12	−29 12.3	1.488	2.300	18.6	21.0

156345 2001 XX_{168} 7 31.4 208°.42 1°.1/ 1.1 18

6 30	21 7.62	−13 46.0	2.062	2.939	12.0	20.6
7 10	21 1.50	−14 1.7	1.986	2.934	8.7	20.4
7 20	20 53.58	−14 25.7	1.934	2.928	5.0	20.2
7 30	20 44.54	−14 55.2	1.909	2.922	1.4	19.9
8 9	20 35.27	−15 26.8	1.911	2.915	3.4	20.1
8 19	20 26.67	−15 57.1	1.942	2.908	7.3	20.3
8 29	20 19.61	−16 23.4	1.998	2.900	10.8	20.5
9 8	20 14.69	−16 43.6	2.077	2.892	13.9	20.7

66723 1999 TE_{107} 7 31.4 236°.63 3°.7/ 2.3 18

6 30	21 8.45	− 8 39.4	1.984	2.846	13.0	18.6
7 10	21 2.12	− 8 10.2	1.904	2.838	9.9	18.4
7 20	20 53.94	− 7 51.5	1.847	2.829	6.6	18.2
7 30	20 44.60	− 7 42.8	1.817	2.821	3.9	18.0
8 9	20 34.99	− 7 42.8	1.814	2.812	4.6	18.0
8 19	20 26.08	− 7 49.5	1.839	2.803	7.8	18.2
8 29	20 18.75	− 8 0.1	1.889	2.793	11.2	18.4
9 8	20 13.62	− 8 11.9	1.960	2.783	14.3	18.6

50813 2000 FJ_{30} 7 31.4 173°.47 0°.5/31.8 18

6 30	21 5.06	−14 39.6	2.041	2.925	11.8	19.2
7 10	20 59.65	−15 10.9	1.973	2.926	8.5	19.0
7 20	20 52.55	−15 50.5	1.929	2.926	4.7	18.8
7 30	20 44.41	−16 34.8	1.912	2.927	0.9	18.5
8 9	20 36.10	−17 19.7	1.923	2.927	3.3	18.7
8 19	20 28.49	−18 1.3	1.961	2.928	7.2	18.9
8 29	20 22.38	−18 36.6	2.024	2.928	10.6	19.1
9 8	20 18.34	−19 3.9	2.110	2.928	13.6	19.3

357213 2002 GX_{147} 7 31.4 92°.09 4°.6/28.3 18

6 30	21 8.37	−31 39.0	2.299	3.189	10.4	20.6
7 10	21 1.84	−32 19.6	2.253	3.203	7.8	20.4
7 20	20 53.64	−32 54.5	2.233	3.217	5.4	20.3
7 30	20 44.54	−33 19.0	2.239	3.231	4.6	20.3
8 9	20 35.45	−33 29.8	2.273	3.245	6.1	20.4
8 19	20 27.27	−33 25.9	2.334	3.259	8.5	20.6
8 29	20 20.75	−33 8.2	2.418	3.272	11.0	20.8
9 8	20 16.38	−32 38.7	2.524	3.286	13.1	21.0

316269 2010 PG_{30} 7 31.4 275°.25 2°.4/ 2.1 18

6 30	21 3.70	− 9 42.6	2.306	3.173	11.3	21.2
7 10	20 58.60	− 9 45.2	2.220	3.159	8.5	21.0
7 20	20 51.96	− 9 57.7	2.158	3.144	5.4	20.8
7 30	20 44.35	−10 18.8	2.122	3.130	2.7	20.6
8 9	20 36.47	−10 46.1	2.114	3.115	3.5	20.6
8 19	20 29.11	−11 16.5	2.133	3.100	6.6	20.8
8 29	20 23.00	−11 47.3	2.178	3.085	9.8	21.0
9 8	20 18.70	−12 15.6	2.247	3.071	12.7	21.1

200550 2001 FL_{163} 7 31.4 207.°96 0.°3/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 5.69	−14 7.9	2.387	3.262	10.6	21.4
7 10	20 59.99	−14 57.4	2.307	3.256	7.7	21.2
7 20	20 52.72	−15 55.5	2.253	3.249	4.3	21.0
7 30	20 44.44	−16 58.5	2.226	3.241	0.7	20.7
8 9	20 35.91	−18 1.9	2.229	3.233	3.1	20.9
8 19	20 27.91	−19 1.7	2.261	3.224	6.6	21.1
8 29	20 21.18	−19 54.5	2.320	3.215	9.8	21.3
9 8	20 16.30	−20 38.2	2.402	3.205	12.6	21.5

313336 2002 GC_{26} 7 31.4 184.°73 8.°8/ 7.7 17

6 30	21 6.88	+ 9 13.0	1.913	2.692	16.6	21.3
7 10	21 1.07	+ 9 5.6	1.836	2.693	14.1	21.2
7 20	20 53.39	+ 8 30.8	1.777	2.692	11.6	21.0
7 30	20 44.54	+ 7 27.6	1.742	2.692	9.5	20.9
8 9	20 35.41	+ 5 58.5	1.732	2.690	8.8	20.8
8 19	20 26.96	+ 4 9.4	1.748	2.687	10.0	20.9
8 29	20 20.09	+ 2 8.5	1.790	2.684	12.3	21.0
9 8	20 15.44	+ 0 4.8	1.855	2.680	14.9	21.2

193353 2000 UU_{32} 7 31.4 203.°87 0.°2/31.3 18

6 30	21 6.92	−16 48.7	2.010	2.896	11.8	20.6
7 10	21 1.05	−17 21.1	1.939	2.893	8.5	20.4
7 20	20 53.36	−18 0.2	1.891	2.890	4.6	20.2
7 30	20 44.53	−18 42.1	1.871	2.886	0.6	19.9
8 9	20 35.48	−19 22.6	1.878	2.882	3.6	20.1
8 19	20 27.15	−19 57.8	1.913	2.877	7.6	20.3
8 29	20 20.40	−20 25.4	1.973	2.872	11.1	20.6
9 8	20 15.84	−20 43.9	2.055	2.867	14.1	20.8

476656 2008 SE_{290} 7 31.4 248.°15 1.°1/30.7 18

6 30	21 7.98	−19 49.6	2.039	2.929	11.6	22.0
7 10	21 1.90	−20 17.5	1.957	2.914	8.3	21.8
7 20	20 53.88	−20 49.6	1.899	2.898	4.5	21.5
7 30	20 44.61	−21 22.0	1.868	2.882	1.2	21.2
8 9	20 35.01	−21 50.4	1.865	2.866	4.0	21.4
8 19	20 26.06	−22 11.7	1.889	2.849	7.9	21.6
8 29	20 18.71	−22 24.0	1.939	2.832	11.6	21.8
9 8	20 13.63	−22 26.9	2.010	2.814	14.7	22.0

445432 2010 UB_{42} 7 31.4 283.°49 5.°9/26.9 18

6 30	21 7.43	−34 12.6	2.186	3.077	10.8	21.3
7 10	21 1.53	−35 11.3	2.122	3.068	8.4	21.1
7 20	20 53.66	−36 3.6	2.082	3.059	6.4	21.0
7 30	20 44.57	−36 43.6	2.068	3.049	6.0	21.0
8 9	20 35.25	−37 6.8	2.081	3.040	7.5	21.0
8 19	20 26.73	−37 11.0	2.119	3.030	10.0	21.2
8 29	20 19.94	−36 57.0	2.180	3.021	12.5	21.3
9 8	20 15.52	−36 27.3	2.261	3.012	14.8	21.5

519767 2013 ED_{132} 7 31.4 275.°30 0.°3/31.7 18

6 30	21 4.22	−15 36.3	2.150	3.035	11.2	21.8
7 10	20 59.08	−16 1.1	2.071	3.025	8.1	21.6
7 20	20 52.27	−16 33.1	2.017	3.015	4.5	21.3
7 30	20 44.41	−17 9.2	1.990	3.005	0.7	21.0
8 9	20 36.30	−17 45.8	1.990	2.994	3.3	21.2
8 19	20 28.80	−18 19.3	2.018	2.984	7.0	21.4
8 29	20 22.70	−18 47.2	2.071	2.974	10.5	21.6
9 8	20 18.58	−19 7.7	2.146	2.963	13.4	21.8

65354 2002 NG_{43} 7 31.4 81.°47 3.°9/29.5 18

6 30	21 12.39	−25 19.9	1.398	2.302	14.8	19.5
7 10	21 5.31	−26 7.9	1.360	2.322	10.6	19.3
7 20	20 55.74	−26 54.4	1.344	2.342	6.3	19.1
7 30	20 44.83	−27 32.0	1.353	2.361	3.9	19.0
8 9	20 34.04	−27 55.0	1.388	2.380	6.5	19.2
8 19	20 24.73	−28 1.2	1.447	2.399	10.6	19.5
8 29	20 17.96	−27 51.5	1.528	2.418	14.3	19.7
9 8	20 14.27	−27 28.3	1.629	2.436	17.4	20.0

336153 2008 RH 7 31.4 304.°93 0.°1/31.3 18

6 30	21 4.47	−15 20.7	1.543	2.442	14.0	20.5
7 10	20 59.84	−16 11.3	1.467	2.428	10.1	20.2
7 20	20 52.94	−17 14.3	1.414	2.414	5.6	19.9
7 30	20 44.52	−18 24.4	1.385	2.400	0.7	19.5
8 9	20 35.67	−19 34.7	1.382	2.387	4.4	19.8
8 19	20 27.58	−20 38.7	1.405	2.373	9.2	20.0
8 29	20 21.40	−21 31.5	1.450	2.360	13.6	20.3
9 8	20 17.92	−22 10.5	1.516	2.348	17.3	20.5

135566 2002 GT_{13} 7 31.4 72.°74 4.°8/ 3.1 17

6 30	21 6.98	− 5 49.5	1.364	2.239	17.0	20.0
7 10	21 1.53	− 5 51.0	1.308	2.247	13.1	19.8
7 20	20 53.77	− 6 12.6	1.271	2.254	8.8	19.6
7 30	20 44.61	− 6 52.6	1.258	2.261	5.3	19.4
8 9	20 35.28	− 7 46.1	1.269	2.269	5.7	19.5
8 19	20 27.03	− 8 46.9	1.305	2.276	9.4	19.7
8 29	20 20.93	− 9 48.4	1.363	2.284	13.5	19.9
9 8	20 17.64	−10 44.9	1.442	2.291	17.1	20.2

44693 1999 RH_{234} 7 31.4 316.°33 0.°1/31.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 4.31	−14 42.5	1.258	2.165	16.0	18.5
7 10	21 0.10	−15 40.0	1.187	2.152	11.5	18.2
7 20	20 53.24	−16 53.6	1.138	2.139	6.4	17.9
7 30	20 44.57	−18 17.0	1.112	2.127	0.8	17.5
8 9	20 35.39	−19 41.3	1.110	2.115	5.0	17.8
8 19	20 27.15	−20 57.7	1.132	2.104	10.5	18.1
8 29	20 21.19	−22 0.0	1.175	2.093	15.4	18.3
9 8	20 18.40	−22 44.9	1.237	2.083	19.6	18.5

521422 2015 MN_{147} 7 31.4 17.°24 3.°1/ 2.9 18

6 30	21 2.84	− 6 24.4	1.981	2.844	13.0	21.5
7 10	20 58.12	− 6 57.4	1.910	2.845	9.9	21.3
7 20	20 51.75	− 7 46.1	1.862	2.845	6.4	21.1
7 30	20 44.36	− 8 47.8	1.841	2.846	3.5	20.9
8 9	20 36.77	− 9 58.0	1.846	2.847	4.0	21.0
8 19	20 29.83	−11 11.6	1.878	2.848	7.2	21.2
8 29	20 24.33	−12 23.2	1.936	2.849	10.6	21.4
9 8	20 20.84	−13 28.6	2.017	2.850	13.6	21.6

521639 2015 QU_{16} 7 31.4 53.°02 1.°5/30.5 18

6 30	21 6.22	−22 5.8	2.157	3.050	10.9	21.4
7 10	21 0.39	−22 22.4	2.095	3.053	7.7	21.2
7 20	20 52.92	−22 40.4	2.058	3.057	4.2	21.0
7 30	20 44.50	−22 56.1	2.048	3.060	1.6	20.8
8 9	20 36.00	−23 6.5	2.065	3.064	3.9	21.0
8 19	20 28.27	−23 9.7	2.110	3.068	7.3	21.2
8 29	20 22.08	−23 4.9	2.180	3.072	10.5	21.4
9 8	20 17.96	−22 52.2	2.271	3.076	13.2	21.6

114170 2002 VW_{74} 7 31.4 71.°46 2.°8/ 2.1 18

6 30	21 6.10	− 9 5.9	1.473	2.356	15.6	19.5
7 10	21 0.81	− 9 32.5	1.415	2.363	11.6	19.2
7 20	20 53.34	−10 15.8	1.379	2.370	7.1	19.0
7 30	20 44.56	−11 12.2	1.368	2.378	3.2	18.8
8 9	20 35.62	−12 15.9	1.381	2.386	4.4	18.9
8 19	20 27.68	−13 20.5	1.421	2.393	8.7	19.2
8 29	20 21.74	−14 20.3	1.483	2.401	12.8	19.4
9 8	20 18.45	−15 11.4	1.567	2.409	16.4	19.7

38475 1999 TT_{89} 7 31.4 348.°96 7.°9/26.8 18

6 30	21 6.87	−36 0.5	1.582	2.485	13.5	17.6
7 10	21 1.68	−37 0.6	1.527	2.477	10.7	17.4
7 20	20 53.94	−37 50.7	1.494	2.470	8.5	17.2
7 30	20 44.65	−38 22.7	1.484	2.463	8.1	17.2
8 9	20 35.16	−38 31.1	1.499	2.458	9.8	17.3
8 19	20 26.86	−38 14.3	1.535	2.453	12.6	17.4
8 29	20 20.92	−37 34.4	1.593	2.450	15.6	17.6
9 8	20 18.02	−36 36.1	1.669	2.447	18.2	17.8

241421 2008 UA_{244} 7 31.4 62.°37 3.°6/29.6 17

6 30	21 9.66	−26 22.5	1.672	2.573	13.0	20.3
7 10	21 3.20	−26 52.7	1.621	2.582	9.4	20.1
7 20	20 54.57	−27 20.6	1.594	2.590	5.6	19.9
7 30	20 44.72	−27 40.7	1.592	2.599	3.6	19.8
8 9	20 34.84	−27 48.9	1.616	2.607	5.9	20.0
8 19	20 26.11	−27 43.2	1.665	2.616	9.5	20.2
8 29	20 19.50	−27 24.3	1.738	2.625	13.0	20.5
9 8	20 15.59	−26 54.2	1.831	2.634	15.9	20.7

293922 2007 SR_{18} 7 31.4 328.°36 3.°3/29.4 18

6 30	21 5.90	−24 1.3	1.629	2.535	13.0	20.3
7 10	21 0.76	−24 52.7	1.564	2.528	9.3	20.1
7 20	20 53.38	−25 46.2	1.522	2.521	5.5	19.9
7 30	20 44.59	−26 35.4	1.506	2.515	3.3	19.7
8 9	20 35.52	−27 14.2	1.515	2.509	5.9	19.9
8 19	20 27.36	−27 38.6	1.549	2.503	9.9	20.1
8 29	20 21.20	−27 47.3	1.606	2.498	13.6	20.3
9 8	20 17.72	−27 41.2	1.683	2.493	16.8	20.5

22401 Egisto 7 31.4 107.°59 3.°1/ 3.4 18

6 30	21 2.25	− 4 59.3	2.491	3.338	11.2	18.5
7 10	20 57.38	− 5 30.9	2.424	3.348	8.6	18.3
7 20	20 51.22	− 6 15.5	2.382	3.358	5.7	18.2
7 30	20 44.31	− 7 11.2	2.366	3.367	3.4	18.0
8 9	20 37.29	− 8 14.4	2.379	3.377	3.6	18.1
8 19	20 30.82	− 9 21.1	2.420	3.386	6.0	18.2
8 29	20 25.50	−10 27.3	2.488	3.395	8.8	18.4
9 8	20 21.79	−11 29.4	2.580	3.404	11.2	18.6

221751 2007 EO_{202} 7 31.4 211.°02 0.°4/31.8 18

6 30	21 3.67	−15 9.1	2.407	3.288	10.4	21.0
7 10	20 58.50	−15 31.9	2.335	3.286	7.4	20.8
7 20	20 51.88	−16 1.1	2.288	3.285	4.2	20.6
7 30	20 44.40	−16 34.0	2.268	3.283	0.8	20.3
8 9	20 36.76	−17 7.5	2.277	3.281	2.9	20.5
8 19	20 29.70	−17 38.6	2.313	3.279	6.3	20.7
8 29	20 23.89	−18 5.1	2.375	3.276	9.4	20.9
9 8	20 19.83	−18 25.2	2.461	3.274	12.0	21.1

364476 2007 DP_{34} 7 31.4 162.°82 2.°9/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 6.80	−26 41.9	2.430	3.321	9.9	21.4
7 10	21 0.72	−27 9.0	2.367	3.323	7.1	21.2
7 20	20 53.09	−27 34.1	2.330	3.324	4.3	21.0
7 30	20 44.55	−27 53.6	2.320	3.326	2.9	20.9
8 9	20 35.93	−28 4.3	2.338	3.327	4.6	21.1
8 19	20 28.02	−28 4.7	2.384	3.328	7.4	21.2
8 29	20 21.56	−27 54.6	2.455	3.329	10.2	21.4
9 8	20 17.05	−27 35.0	2.548	3.330	12.5	21.6

328071 2007 VM_{330} 7 31.4 182.°54 1.°9/30.4 17

6 30	21 10.99	−21 25.7	1.750	2.644	13.0	21.9
7 10	21 4.18	−21 59.4	1.686	2.645	9.2	21.7
7 20	20 55.18	−22 36.1	1.646	2.645	5.1	21.4
7 30	20 44.84	−23 10.6	1.632	2.645	1.9	21.2
8 9	20 34.31	−23 37.8	1.645	2.644	4.8	21.4
8 19	20 24.74	−23 54.8	1.685	2.643	8.9	21.6
8 29	20 17.17	−24 0.2	1.749	2.641	12.7	21.9
9 8	20 12.24	−23 54.7	1.834	2.638	15.9	22.1

282551 2004 TG_{215} 7 31.4 299.°09 2.°0/ 1.8 18

6 30	21 3.40	−11 17.2	2.140	3.015	11.7	21.1
7 10	20 58.51	−11 25.1	2.058	3.003	8.7	20.8
7 20	20 52.00	−11 42.8	1.999	2.990	5.3	20.6
7 30	20 44.44	−12 8.4	1.966	2.977	2.2	20.4
8 9	20 36.63	−12 39.0	1.961	2.964	3.4	20.5
8 19	20 29.38	−13 11.4	1.983	2.952	6.9	20.7
8 29	20 23.48	−13 42.5	2.030	2.939	10.3	20.8
9 8	20 19.52	−14 9.5	2.100	2.927	13.3	21.0

488547 2001 TW_{69} 7 31.4 307.°59 0.°0/31.4 18

6 30	21 6.46	−16 48.6	1.395	2.299	14.9	21.5
7 10	21 1.58	−17 3.3	1.312	2.275	10.9	21.2
7 20	20 54.08	−17 27.2	1.250	2.250	6.1	20.8
7 30	20 44.74	−17 56.6	1.212	2.227	0.8	20.4
8 9	20 34.81	−18 26.1	1.198	2.203	4.7	20.6
8 19	20 25.68	−18 51.0	1.208	2.180	10.0	20.9
8 29	20 18.69	−19 7.8	1.241	2.157	14.9	21.1
9 8	20 14.76	−19 14.8	1.292	2.135	19.1	21.3

373616 2002 EU_{110} 7 31.5 133.°07 3.°8/28.8 18

6 30	21 9.52	−27 1.4	2.016	2.910	11.5	20.8
7 10	21 2.91	−27 57.9	1.965	2.921	8.3	20.7
7 20	20 54.39	−28 52.3	1.939	2.932	5.2	20.5
7 30	20 44.76	−29 38.9	1.940	2.942	3.9	20.4
8 9	20 35.05	−30 12.9	1.968	2.952	5.8	20.6
8 19	20 26.27	−30 31.9	2.023	2.961	8.9	20.8
8 29	20 19.30	−30 35.7	2.102	2.970	11.9	21.0
9 8	20 14.70	−30 26.0	2.202	2.979	14.4	21.2

279018 2008 UP_{295} 7 31.5 22.°96 3.°8/ 2.2 17

6 30	21 4.74	− 9 53.1	1.211	2.108	17.2	19.4
7 10	21 0.06	− 9 35.6	1.164	2.118	12.8	19.2
7 20	20 53.00	− 9 34.5	1.138	2.130	8.1	19.0
7 30	20 44.59	− 9 48.0	1.134	2.143	4.2	18.8
8 9	20 36.14	−10 12.0	1.153	2.156	5.3	18.9
8 19	20 28.92	−10 41.7	1.195	2.171	9.6	19.2
8 29	20 23.99	−11 11.9	1.260	2.187	13.8	19.5
9 8	20 21.96	−11 38.3	1.343	2.204	17.5	19.8

190676 2001 BO_{34} 7 31.5 267.°77 0.°4/31.2 18

6 30	21 9.06	−18 14.3	2.094	2.977	11.6	20.0
7 10	21 2.77	−18 30.9	1.997	2.950	8.3	19.7
7 20	20 54.47	−18 52.5	1.924	2.922	4.6	19.4
7 30	20 44.81	−19 15.9	1.879	2.894	0.6	19.1
8 9	20 34.68	−19 37.3	1.862	2.864	3.7	19.3
8 19	20 25.08	−19 53.8	1.872	2.834	7.8	19.5
8 29	20 16.99	−20 3.3	1.909	2.804	11.6	19.7
9 8	20 11.15	−20 5.1	1.967	2.773	14.9	19.8

390401 2013 YU_{5} 7 31.5 271.°88 3.°3/29.0 18

6 30	21 6.69	−22 26.5	1.722	2.624	12.7	20.9
7 10	21 1.43	−23 50.5	1.646	2.609	9.1	20.7
7 20	20 53.87	−25 20.8	1.594	2.593	5.3	20.4
7 30	20 44.74	−26 49.6	1.569	2.577	3.3	20.3
8 9	20 35.13	−28 9.0	1.570	2.561	6.1	20.4
8 19	20 26.22	−29 12.7	1.597	2.545	10.1	20.6
8 29	20 19.16	−29 57.6	1.648	2.529	13.9	20.8
9 8	20 14.77	−30 23.7	1.718	2.513	17.1	21.0

66388 1999 KF_{1} 7 31.5 2.°49 14.°3/22.3 17

6 30	21 4.43	−42 53.1	1.046	1.960	17.9	17.9
7 10	21 1.13	−45 3.3	1.015	1.957	15.6	17.7
7 20	20 54.12	−46 51.1	1.003	1.957	14.4	17.7
7 30	20 44.77	−48 2.0	1.009	1.958	14.8	17.7
8 9	20 35.21	−48 27.5	1.034	1.961	16.7	17.8
8 19	20 27.55	−48 7.4	1.077	1.965	19.2	18.0
8 29	20 23.40	−47 8.1	1.135	1.972	21.8	18.2
9 8	20 23.42	−45 38.9	1.206	1.980	24.1	18.4

507264 2011 CE_{62} 7 31.5 159.°39 0.°8/31.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 8.15	−14 4.4	1.852	2.734	12.9	22.3
7 10	21 2.00	−14 28.9	1.788	2.739	9.3	22.1
7 20	20 53.94	−15 2.5	1.747	2.743	5.3	21.8
7 30	20 44.74	−15 41.7	1.733	2.747	1.2	21.6
8 9	20 35.37	−16 22.0	1.746	2.751	3.6	21.8
8 19	20 26.84	−16 59.5	1.787	2.754	7.7	22.0
8 29	20 20.03	−17 31.0	1.852	2.756	11.4	22.2
9 8	20 15.55	−17 54.9	1.939	2.758	14.6	22.5

302735 2002 TC_{382} 7 31.5 325.°09 3.°5/29.6 18

6 30	21 6.35	−25 6.2	1.550	2.459	13.4	20.2
7 10	21 1.26	−25 41.4	1.479	2.443	9.7	19.9
7 20	20 53.78	−26 17.3	1.430	2.429	5.8	19.7
7 30	20 44.73	−26 47.6	1.406	2.415	3.5	19.5
8 9	20 35.34	−27 6.9	1.407	2.401	6.2	19.6
8 19	20 26.89	−27 11.7	1.432	2.388	10.3	19.8
8 29	20 20.54	−27 1.4	1.480	2.376	14.2	20.0
9 8	20 17.04	−26 37.3	1.546	2.365	17.7	20.2

349277 2007 TH_{319} 7 31.5 217.°84 1.°1/30.7 18

6 30	21 6.32	−19 49.7	2.412	3.298	10.2	22.2
7 10	21 0.48	−20 24.2	2.335	3.290	7.2	22.0
7 20	20 53.05	−21 2.3	2.283	3.282	3.9	21.7
7 30	20 44.63	−21 40.5	2.259	3.273	1.1	21.5
8 9	20 35.99	−22 14.9	2.264	3.264	3.5	21.7
8 19	20 27.92	−22 42.9	2.297	3.254	6.9	21.9
8 29	20 21.19	−23 2.5	2.356	3.244	10.0	22.1
9 8	20 16.33	−23 13.2	2.437	3.233	12.6	22.2

99546 2002 EB_{104} 7 31.5 48.°91 2.°8/ 2.6 18

6 30	21 4.11	− 7 3.3	1.689	2.561	14.4	19.3
7 10	20 59.29	− 7 52.3	1.623	2.564	10.9	19.1
7 20	20 52.54	− 8 59.6	1.579	2.566	6.9	18.9
7 30	20 44.58	−10 21.3	1.560	2.569	3.3	18.6
8 9	20 36.39	−11 51.2	1.568	2.571	4.1	18.7
8 19	20 28.96	−13 22.2	1.602	2.574	8.0	18.9
8 29	20 23.25	−14 47.7	1.661	2.577	11.8	19.2
9 8	20 19.86	−16 2.9	1.742	2.580	15.2	19.4

472910 2015 FA_{344} 7 31.5 64.°32 2.°3/30.3 17

6 30	21 9.07	−22 23.7	1.565	2.468	13.7	20.8
7 10	21 2.89	−22 53.5	1.515	2.478	9.7	20.6
7 20	20 54.49	−23 25.2	1.488	2.488	5.4	20.4
7 30	20 44.84	−23 53.3	1.486	2.498	2.3	20.2
8 9	20 35.15	−24 13.0	1.510	2.509	5.1	20.4
8 19	20 26.61	−24 21.6	1.560	2.520	9.3	20.7
8 29	20 20.21	−24 18.4	1.632	2.530	13.0	20.9
9 8	20 16.55	−24 4.5	1.725	2.541	16.2	21.2

216963 2000 BX_{36} 7 31.5 312.°90 0.°1/31.4 15

6 30	21 6.21	−17 6.0	1.281	2.189	15.7	19.9
7 10	21 1.56	−17 24.1	1.204	2.169	11.4	19.6
7 20	20 54.15	−17 52.3	1.148	2.149	6.3	19.2
7 30	20 44.84	−18 26.0	1.114	2.129	0.8	18.8
8 9	20 34.96	−18 59.1	1.105	2.110	4.9	19.1
8 19	20 26.00	−19 26.5	1.119	2.092	10.5	19.3
8 29	20 19.35	−19 44.4	1.154	2.074	15.5	19.5
9 8	20 15.95	−19 51.2	1.208	2.057	19.8	19.8

299690 2006 QT_{104} 7 31.5 238.°52 1.°6/ 1.6 18

6 30	21 4.83	−11 45.2	2.007	2.885	12.3	21.0
7 10	20 59.60	−12 7.6	1.934	2.881	9.0	20.8
7 20	20 52.65	−12 40.7	1.884	2.877	5.3	20.6
7 30	20 44.63	−13 21.6	1.861	2.873	1.9	20.4
8 9	20 36.38	−14 6.4	1.865	2.869	3.4	20.5
8 19	20 28.79	−14 51.2	1.896	2.865	7.2	20.7
8 29	20 22.69	−15 32.3	1.952	2.861	10.7	20.9
9 8	20 18.66	−16 7.1	2.031	2.856	13.8	21.1

343852 2011 HY_{44} 7 31.5 46.°15 6.°6/ 4.9 17

6 30	21 4.37	+ 0 2.8	1.619	2.464	16.3	21.4
7 10	20 59.49	+ 0 7.4	1.556	2.469	13.1	21.2
7 20	20 52.66	− 0 10.5	1.512	2.474	9.8	21.0
7 30	20 44.63	− 0 50.8	1.492	2.479	7.2	20.9
8 9	20 36.41	− 1 49.9	1.497	2.484	6.9	20.9
8 19	20 29.02	− 3 2.3	1.527	2.489	9.2	21.0
8 29	20 23.39	− 4 20.8	1.580	2.495	12.4	21.2
9 8	20 20.13	− 5 38.7	1.655	2.501	15.5	21.4

475852 2007 BE_{57} 7 31.5 206.°23 0.°9/30.7 18

6 30	21 3.86	−17 58.7	2.469	3.354	10.0	21.1
7 10	20 58.72	−18 56.7	2.396	3.351	7.0	20.9
7 20	20 52.10	−20 0.5	2.349	3.348	3.8	20.7
7 30	20 44.56	−21 5.9	2.331	3.345	0.9	20.5
8 9	20 36.80	−22 8.3	2.341	3.341	3.4	20.7
8 19	20 29.57	−23 4.0	2.379	3.337	6.7	20.9
8 29	20 23.57	−23 50.3	2.444	3.333	9.6	21.1
9 8	20 19.33	−24 25.9	2.532	3.329	12.2	21.3

60331 2000 AS_{29} 7 31.5 85°.77 3°.2/29.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 7.93	−24 51.8	1.845	2.744	12.1	18.8
7 10	21 1.89	−25 41.9	1.795	2.755	8.6	18.6
7 20	20 53.90	−26 31.8	1.770	2.767	5.1	18.4
7 30	20 44.79	−27 15.7	1.771	2.778	3.2	18.3
8 9	20 35.62	−27 48.8	1.799	2.790	5.5	18.4
8 19	20 27.43	−28 8.3	1.853	2.801	8.9	18.7
8 29	20 21.09	−28 13.6	1.931	2.813	12.1	18.9
9 8	20 17.19	−28 6.1	2.029	2.824	14.9	19.1

174597 2003 QD_{67} 7 31.5 17°.34 1°.9/30.5 17

6 30	21 4.42	−18 5.4	1.035	1.958	17.3	19.5
7 10	21 0.38	−19 11.2	0.989	1.962	12.3	19.3
7 20	20 53.45	−20 28.7	0.963	1.967	6.6	19.0
7 30	20 44.75	−21 48.5	0.958	1.973	1.9	18.7
8 9	20 35.86	−23 0.5	0.977	1.980	6.1	19.0
8 19	20 28.35	−23 56.8	1.017	1.988	11.5	19.3
8 29	20 23.55	−24 33.7	1.077	1.997	16.3	19.6
9 8	20 22.16	−24 50.8	1.154	2.006	20.3	19.9

361492 2007 EA_{12} 7 31.5 121°.80 6°.1/27.4 18

6 30	21 11.21	−37 44.1	2.430	3.307	10.4	20.6
7 10	21 3.96	−38 19.2	2.380	3.313	8.2	20.5
7 20	20 54.94	−38 44.6	2.355	3.320	6.5	20.4
7 30	20 44.94	−38 55.4	2.356	3.326	6.1	20.3
8 9	20 34.96	−38 48.9	2.384	3.332	7.3	20.4
8 19	20 25.96	−38 24.8	2.438	3.338	9.3	20.6
8 29	20 18.73	−37 45.0	2.516	3.344	11.4	20.7
9 8	20 13.78	−36 52.8	2.614	3.350	13.4	20.9

42711 1998 QY_{25} 7 31.5 329°.27 5°.0/ 4.8 18

6 30	21 1.06	− 0 37.2	2.015	2.855	13.7	18.7
7 10	20 56.96	− 1 8.6	1.933	2.847	10.9	18.5
7 20	20 51.24	− 2 0.3	1.874	2.838	7.9	18.3
7 30	20 44.48	− 3 11.1	1.839	2.830	5.5	18.1
8 9	20 37.46	− 4 36.8	1.831	2.823	5.2	18.1
8 19	20 30.99	− 6 11.9	1.849	2.816	7.5	18.2
8 29	20 25.86	− 7 49.6	1.894	2.809	10.6	18.4
9 8	20 22.66	− 9 23.8	1.961	2.802	13.6	18.6

312120 2007 TW_{210} 7 31.5 103°.45 4°.9/ 2.8 17

6 30	21 9.72	− 6 53.5	1.416	2.289	16.7	20.4
7 10	21 3.48	− 6 30.2	1.359	2.297	12.8	20.2
7 20	20 54.92	− 6 23.9	1.322	2.304	8.6	20.0
7 30	20 44.97	− 6 33.9	1.309	2.312	5.3	19.8
8 9	20 34.87	− 6 57.3	1.321	2.319	5.8	19.9
8 19	20 25.87	− 7 29.6	1.357	2.326	9.5	20.1
8 29	20 19.05	− 8 5.7	1.417	2.333	13.4	20.4
9 8	20 15.05	− 8 40.9	1.497	2.340	17.0	20.6

80439 1999 XH_{259} 7 31.5 291°.56 1°.3/ 1.2 18

6 30	21 6.64	−13 15.5	1.439	2.333	15.2	20.1
7 10	21 1.67	−13 38.1	1.356	2.312	11.2	19.8
7 20	20 54.18	−14 14.5	1.294	2.291	6.5	19.5
7 30	20 44.91	−15 1.3	1.256	2.270	1.7	19.1
8 9	20 35.07	−15 52.7	1.243	2.249	4.4	19.2
8 19	20 25.96	−16 43.0	1.255	2.228	9.6	19.5
8 29	20 18.90	−17 26.9	1.290	2.207	14.4	19.7
9 8	20 14.77	−18 1.1	1.343	2.186	18.6	19.9

149837 2005 OX_{20} 7 31.5 303°.60 0°.0/31.3 18

6 30	21 5.17	−14 50.7	1.434	2.335	14.8	19.6
7 10	21 0.54	−15 42.9	1.361	2.322	10.7	19.3
7 20	20 53.49	−16 48.9	1.310	2.310	6.0	19.0
7 30	20 44.81	−18 3.1	1.283	2.298	0.8	18.6
8 9	20 35.69	−19 17.9	1.281	2.286	4.5	18.8
8 19	20 27.39	−20 26.1	1.305	2.275	9.6	19.1
8 29	20 21.14	−21 22.5	1.350	2.263	14.2	19.3
9 8	20 17.75	−22 4.1	1.416	2.252	18.1	19.6

513578 2010 VX_{217} 7 31.5 349°.13 8°.3/25.5 18

6 30	21 8.96	−39 54.7	1.944	2.829	12.2	20.6
7 10	21 2.95	−41 3.9	1.893	2.826	10.1	20.5
7 20	20 54.65	−42 1.2	1.866	2.823	8.6	20.4
7 30	20 44.94	−42 39.3	1.863	2.820	8.5	20.4
8 9	20 35.08	−42 53.6	1.885	2.818	9.9	20.5
8 19	20 26.29	−42 43.0	1.930	2.816	12.0	20.6
8 29	20 19.64	−42 9.7	1.996	2.815	14.3	20.8
9 8	20 15.78	−41 17.9	2.080	2.814	16.4	20.9

314058 2005 AU_{45} 7 31.5 231°.73 1°.2/30.8 17

6 30	21 8.57	−17 49.5	1.510	2.409	14.3	20.8
7 10	21 2.86	−18 42.8	1.442	2.403	10.2	20.6
7 20	20 54.71	−19 45.4	1.397	2.397	5.6	20.3
7 30	20 44.97	−20 51.0	1.377	2.391	1.2	20.0
8 9	20 34.87	−21 52.4	1.382	2.385	4.8	20.2
8 19	20 25.69	−22 43.8	1.414	2.378	9.6	20.5
8 29	20 18.61	−23 21.6	1.468	2.371	14.0	20.7
9 8	20 14.41	−23 44.8	1.542	2.363	17.6	20.9

221901 2008 KZ_{32} 7 31.5 246°.21 3°.2/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 6.33	− 8 5.1	1.674	2.547	14.5	20.6
7 10	21 1.01	− 8 22.6	1.598	2.539	11.0	20.3
7 20	20 53.60	− 8 56.3	1.544	2.531	7.0	20.1
7 30	20 44.82	− 9 43.7	1.515	2.523	3.6	19.9
8 9	20 35.71	−10 40.5	1.512	2.515	4.5	19.9
8 19	20 27.34	−11 41.3	1.536	2.506	8.4	20.1
8 29	20 20.72	−12 40.6	1.583	2.498	12.4	20.3
9 8	20 16.58	−13 34.0	1.652	2.489	15.9	20.5

255200 2005 UE_{320} 7 31.5 91°.14 4°.1/ 3.6 18

6 30	21 3.32	− 4 15.3	2.243	3.090	12.2	20.7
7 10	20 58.33	− 4 16.3	2.174	3.095	9.5	20.6
7 20	20 51.89	− 4 31.3	2.128	3.100	6.7	20.4
7 30	20 44.59	− 4 59.1	2.108	3.104	4.4	20.3
8 9	20 37.15	− 5 37.3	2.115	3.109	4.5	20.3
8 19	20 30.31	− 6 22.3	2.149	3.113	6.9	20.4
8 29	20 24.76	− 7 10.4	2.210	3.118	9.7	20.6
9 8	20 20.99	− 7 57.6	2.293	3.122	12.3	20.8

278671 2008 RN_{93} 7 31.5 2°.98 2°.4/ 1.9 17

6 30	21 5.24	−10 16.9	1.596	2.479	14.5	20.7
7 10	21 0.22	−10 37.3	1.531	2.479	10.8	20.5
7 20	20 53.13	−11 12.1	1.487	2.479	6.6	20.2
7 30	20 44.76	−11 58.2	1.468	2.479	2.8	20.0
8 9	20 36.16	−12 50.8	1.475	2.480	4.1	20.1
8 19	20 28.41	−13 44.5	1.508	2.480	8.3	20.3
8 29	20 22.50	−14 34.4	1.564	2.481	12.4	20.6
9 8	20 19.08	−15 16.8	1.642	2.482	15.8	20.8

376213 2011 DO_{29} 7 31.5 270°.96 0°.3/31.3 17

6 30	21 8.81	−17 47.1	1.578	2.474	14.0	21.5
7 10	21 2.94	−18 2.8	1.504	2.463	10.1	21.2
7 20	20 54.72	−18 25.2	1.453	2.453	5.6	20.9
7 30	20 44.98	−18 50.4	1.427	2.442	0.7	20.5
8 9	20 34.89	−19 13.7	1.427	2.431	4.3	20.8
8 19	20 25.69	−19 31.3	1.453	2.420	9.1	21.0
8 29	20 18.52	−19 40.9	1.502	2.410	13.4	21.3
9 8	20 14.12	−19 41.8	1.571	2.399	17.0	21.5

394660 2008 BC_{51} 7 31.5 173°.86 0°.7/31.0 18 R

6 30	21 6.03	−18 47.5	2.207	3.095	10.9	21.8
7 10	21 0.33	−19 12.4	2.140	3.096	7.7	21.6
7 20	20 53.02	−19 41.4	2.098	3.097	4.2	21.3
7 30	20 44.74	−20 11.2	2.083	3.097	0.8	21.1
8 9	20 36.31	−20 38.2	2.096	3.098	3.5	21.3
8 19	20 28.58	−20 59.6	2.136	3.098	7.0	21.5
8 29	20 22.29	−21 13.8	2.202	3.098	10.2	21.7
9 8	20 17.99	−21 20.0	2.290	3.098	13.0	21.9

244825 2003 UX_{4} 7 31.5 323°.29 15°.1/14.7 18

6 30	21 9.48	−48 10.1	1.413	2.292	16.3	19.0
7 10	21 5.28	−51 26.8	1.364	2.268	15.2	18.9
7 20	20 56.98	−54 26.0	1.338	2.244	15.3	18.8
7 30	20 45.36	−56 50.4	1.334	2.221	16.5	18.8
8 9	20 32.29	−58 28.2	1.349	2.199	18.5	18.9
8 19	20 20.29	−59 15.5	1.381	2.177	20.7	19.0
8 29	20 11.86	−59 16.1	1.426	2.157	22.9	19.1
9 8	20 8.48	−58 38.6	1.482	2.137	24.8	19.3

252144 2001 AR_{33} 7 31.5 206°.27 2°.8/29.9 17

6 30	21 10.38	−22 41.2	1.661	2.559	13.3	20.7
7 10	21 4.00	−23 32.7	1.595	2.556	9.5	20.5
7 20	20 55.27	−24 27.3	1.553	2.552	5.4	20.2
7 30	20 45.06	−25 18.5	1.537	2.548	2.8	20.1
8 9	20 34.55	−26 0.2	1.547	2.543	5.5	20.2
8 19	20 25.00	−26 28.2	1.583	2.537	9.7	20.5
8 29	20 17.51	−26 41.1	1.643	2.532	13.5	20.7
9 8	20 12.81	−26 39.8	1.723	2.526	16.8	20.9

208368 2001 RD_{153} 7 31.5 19°.87 0°.4/31.3 18

6 30	21 5.89	−18 13.0	1.515	2.418	14.0	19.4
7 10	21 0.69	−18 24.1	1.461	2.424	10.0	19.2
7 20	20 53.37	−18 41.3	1.430	2.430	5.5	18.9
7 30	20 44.80	−19 0.4	1.423	2.438	0.7	18.6
8 9	20 36.15	−19 17.4	1.441	2.446	4.2	18.9
8 19	20 28.55	−19 28.9	1.484	2.454	8.7	19.2
8 29	20 22.97	−19 33.1	1.551	2.463	12.7	19.5
9 8	20 20.01	−19 29.4	1.637	2.473	16.1	19.7

131030 2000 XG_{46} 7 31.5 206°.48 11°.4/19.5 18

6 30	21 18.31	−52 5.8	2.258	3.088	12.8	20.5
7 10	21 10.25	−54 3.8	2.219	3.083	11.8	20.4
7 20	20 59.00	−55 42.9	2.203	3.077	11.4	20.4
7 30	20 45.58	−56 54.3	2.211	3.071	11.9	20.4
8 9	20 31.56	−57 32.5	2.240	3.065	12.9	20.4
8 19	20 18.72	−57 37.2	2.290	3.058	14.3	20.5
8 29	20 8.60	−57 12.0	2.358	3.051	15.8	20.6
9 8	20 2.13	−56 23.3	2.441	3.043	17.1	20.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V
60147 1999 TC_{320}			7 31.5	1°.21	3°.4/29.6	18
	h m	° ′			°	m
6 30	21 7.39	−26 42.5	1.890	2.790	11.8	18.5
7 10	21 1.56	−27 5.2	1.830	2.789	8.5	18.3
7 20	20 53.79	−27 25.8	1.793	2.789	5.2	18.1
7 30	20 44.86	−27 39.4	1.782	2.789	3.4	18.0
8 9	20 35.84	−27 42.6	1.798	2.789	5.4	18.1
8 19	20 27.74	−27 33.6	1.839	2.790	8.8	18.3
8 29	20 21.47	−27 12.6	1.905	2.791	12.1	18.6
9 8	20 17.60	−26 41.3	1.991	2.793	14.9	18.8
218942 2008 CK_{165}			7 31.5	37°.01	1°.8/ 1.3	18 R
6 30	21 8.40	−13 55.5	1.257	2.157	16.5	19.5
7 10	21 2.74	−13 48.2	1.207	2.166	12.0	19.2
7 20	20 54.58	−13 52.4	1.178	2.175	7.0	19.0
7 30	20 44.97	−14 4.9	1.171	2.184	2.2	18.7
8 9	20 35.30	−14 21.6	1.189	2.195	4.6	18.9
8 19	20 26.91	−14 38.4	1.231	2.205	9.5	19.2
8 29	20 20.91	−14 52.0	1.295	2.216	14.0	19.5
9 8	20 17.94	−15 0.1	1.378	2.228	17.8	19.8
279541 2011 CZ_{17}			7 31.5	208°.72	1°.0/30.9	18
6 30	21 9.65	−19 10.6	1.906	2.795	12.3	21.6
7 10	21 3.21	−19 40.3	1.833	2.789	8.8	21.3
7 20	20 54.75	−20 14.9	1.785	2.784	4.8	21.1
7 30	20 45.01	−20 50.1	1.763	2.778	1.1	20.8
8 9	20 35.01	−21 21.2	1.769	2.771	4.1	21.0
8 19	20 25.80	−21 45.0	1.802	2.763	8.2	21.3
8 29	20 18.34	−21 59.5	1.860	2.755	11.9	21.5
9 8	20 13.28	−22 4.3	1.940	2.747	15.0	21.7
159198 2005 UB_{238}			7 31.5	196°.39	0°.3/31.7	18
6 30	21 7.34	−14 58.3	1.940	2.823	12.4	21.0
7 10	21 1.49	−15 33.8	1.869	2.822	8.9	20.8
7 20	20 53.77	−16 18.0	1.822	2.819	5.0	20.6
7 30	20 44.88	−17 7.1	1.802	2.816	0.8	20.3
8 9	20 35.75	−17 56.2	1.809	2.813	3.5	20.5
8 19	20 27.34	−18 41.2	1.844	2.810	7.6	20.7
8 29	20 20.55	−19 18.7	1.904	2.805	11.3	20.9
9 8	20 16.00	−19 47.2	1.985	2.801	14.4	21.1
137921 2000 BV_{17}			7 31.5	235°.77	0°.4/31.3	18
6 30	21 10.11	−18 7.9	1.691	2.582	13.4	20.1
7 10	21 3.74	−18 22.3	1.617	2.574	9.7	19.8
7 20	20 55.13	−18 42.4	1.567	2.566	5.3	19.6
7 30	20 45.08	−19 4.3	1.542	2.557	0.7	19.2
8 9	20 34.72	−19 23.8	1.544	2.547	4.2	19.4
8 19	20 25.24	−19 37.6	1.572	2.538	8.7	19.7
8 29	20 17.70	−19 43.9	1.625	2.528	12.8	19.9
9 8	20 12.83	−19 42.0	1.698	2.518	16.3	20.1
195596 2002 JT_{139}			7 31.5	1°.71	4°.1/ 2.5	17
6 30	21 6.61	− 8 36.0	1.561	2.438	15.1	19.1
7 10	21 1.21	− 8 8.9	1.496	2.438	11.5	18.9
7 20	20 53.69	− 7 55.5	1.452	2.437	7.6	18.7
7 30	20 44.88	− 7 55.3	1.433	2.437	4.5	18.5
8 9	20 35.87	− 8 6.0	1.438	2.438	5.2	18.6
8 19	20 27.77	− 8 24.3	1.469	2.439	8.8	18.8
8 29	20 21.57	− 8 46.3	1.523	2.440	12.6	19.0
9 8	20 17.92	− 9 8.2	1.598	2.442	16.0	19.2
212385 2006 HL_{84}			7 31.5	79°.66	3°.7/ 2.5	17
6 30	21 7.73	− 8 8.5	1.339	2.222	16.8	20.8
7 10	21 2.22	− 8 19.0	1.283	2.228	12.7	20.5
7 20	20 54.33	− 8 47.9	1.246	2.235	8.1	20.3
7 30	20 44.97	− 9 32.4	1.233	2.241	4.1	20.1
8 9	20 35.43	−10 27.1	1.245	2.248	5.1	20.2
8 19	20 26.98	−11 25.7	1.281	2.254	9.4	20.4
8 29	20 20.74	−12 22.0	1.340	2.261	13.7	20.7
9 8	20 17.39	−13 11.3	1.419	2.267	17.4	21.0
205502 2001 RX_{26}			7 31.5	303°.48	3°.7/30.1	17
6 30	21 10.46	−24 14.9	1.163	2.078	16.4	20.3
7 10	21 4.98	−24 43.8	1.092	2.060	11.9	20.0
7 20	20 56.25	−25 14.7	1.041	2.041	7.0	19.7
7 30	20 45.27	−25 39.8	1.012	2.023	3.7	19.4
8 9	20 33.69	−25 51.7	1.007	2.005	7.1	19.5
8 19	20 23.30	−25 46.5	1.024	1.988	12.4	19.8
8 29	20 15.75	−25 23.9	1.061	1.971	17.4	20.0
9 8	20 11.98	−24 46.4	1.115	1.955	21.7	20.2
121637 Druscillaperry			7 31.5	281°.83	1°.2/30.7	18
6 30	21 5.55	−20 40.7	2.237	3.128	10.6	20.0
7 10	21 0.10	−21 2.0	2.159	3.116	7.6	19.8
7 20	20 52.98	−21 26.1	2.105	3.104	4.2	19.6
7 30	20 44.81	−21 49.7	2.078	3.092	1.2	19.3
8 9	20 36.41	−22 9.4	2.079	3.080	3.7	19.5
8 19	20 28.63	−22 22.6	2.108	3.068	7.2	19.7
8 29	20 22.26	−22 27.9	2.161	3.055	10.5	19.9
9 8	20 17.88	−22 25.0	2.237	3.043	13.3	20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
149580 2004 BQ_{97}			7 31.5	233°.12	0°.8/ 1.0	18
	h m	° ′			°	m
6 30	21 7.64	−13 19.7	1.716	2.600	13.6	21.1
7 10	21 2.00	−14 1.0	1.639	2.591	9.9	20.9
7 20	20 54.21	−14 54.7	1.585	2.582	5.7	20.6
7 30	20 45.00	−15 56.3	1.557	2.572	1.2	20.3
8 9	20 35.40	−17 0.2	1.557	2.561	3.9	20.5
8 19	20 26.54	−18 0.6	1.582	2.551	8.4	20.7
8 29	20 19.47	−18 53.1	1.633	2.539	12.5	20.9
9 8	20 14.91	−19 34.8	1.704	2.528	16.1	21.1
129299 2005 SU_{148}			7 31.5	326°.03	4°.2/ 3.5	18
6 30	21 2.62	− 4 50.4	1.948	2.807	13.4	19.8
7 10	20 58.13	− 4 57.5	1.871	2.800	10.4	19.6
7 20	20 51.94	− 5 20.5	1.817	2.793	7.2	19.4
7 30	20 44.69	− 5 58.4	1.787	2.786	4.6	19.2
8 9	20 37.18	− 6 48.0	1.783	2.780	4.8	19.2
8 19	20 30.29	− 7 45.0	1.806	2.774	7.6	19.3
8 29	20 24.83	− 8 44.4	1.854	2.769	10.8	19.5
9 8	20 21.39	− 9 41.5	1.924	2.764	13.9	19.7
316453 2010 US_{76}			7 31.5	177°.95	4°.0/ 3.8	18
6 30	21 3.56	− 3 2.3	2.846	3.676	10.4	21.0
7 10	20 58.29	− 2 50.2	2.770	3.677	8.2	20.8
7 20	20 51.83	− 2 49.2	2.717	3.678	6.0	20.7
7 30	20 44.66	− 2 59.2	2.691	3.679	4.3	20.6
8 9	20 37.36	− 3 18.6	2.693	3.679	4.3	20.6
8 19	20 30.53	− 3 45.3	2.723	3.679	6.0	20.7
8 29	20 24.70	− 4 16.7	2.780	3.678	8.3	20.8
9 8	20 20.33	− 4 49.8	2.861	3.678	10.4	21.0
370009 1999 WD_{25}			7 31.5	276°.89	1°.4/ 1.2	13 C
6 30	21 8.98	−13 26.7	1.634	2.519	14.2	22.5
7 10	21 3.24	−13 40.1	1.541	2.492	10.5	22.2
7 20	20 55.06	−14 5.0	1.469	2.464	6.2	21.9
7 30	20 45.13	−14 38.4	1.422	2.436	1.8	21.5
8 9	20 34.56	−15 16.0	1.402	2.407	4.2	21.6
8 19	20 24.58	−15 53.3	1.408	2.378	9.1	21.8
8 29	20 16.44	−16 26.0	1.438	2.348	13.7	22.0
9 8	20 11.04	−16 51.4	1.488	2.318	17.7	22.2
385476 2003 UC_{331}			7 31.5	194°.58	5°.8/ 4.4	18
6 30	21 6.34	− 0 31.3	2.144	2.971	13.5	21.1
7 10	21 0.61	− 0 9.9	2.067	2.969	10.9	20.9
7 20	20 53.25	− 0 4.6	2.013	2.967	8.2	20.8
7 30	20 44.87	− 0 15.9	1.984	2.965	6.2	20.6
8 9	20 36.27	− 0 42.3	1.981	2.962	6.1	20.6
8 19	20 28.28	− 1 20.6	2.006	2.959	8.0	20.7
8 29	20 21.67	− 2 6.8	2.055	2.955	10.7	20.9
9 8	20 17.02	− 2 56.2	2.127	2.951	13.3	21.1
43400 2000 WE_{97}			7 31.5	219°.08	2°.4/30.1	18
6 30	21 9.38	−21 4.8	1.524	2.425	14.0	19.1
7 10	21 3.45	−22 0.4	1.460	2.422	10.0	18.9
7 20	20 55.07	−23 1.4	1.418	2.418	5.6	18.6
7 30	20 45.13	−24 1.1	1.402	2.414	2.4	18.4
8 9	20 34.86	−24 52.2	1.412	2.410	5.5	18.6
8 19	20 25.58	−25 30.0	1.447	2.406	10.0	18.9
8 29	20 18.47	−25 52.2	1.505	2.401	14.1	19.1
9 8	20 14.27	−25 59.2	1.583	2.396	17.6	19.3
252866 2002 HJ_{17}			7 31.5	181°.37	1°.9/30.1	18
6 30	21 5.81	−22 55.8	2.480	3.370	9.8	20.8
7 10	21 0.11	−23 28.0	2.414	3.370	6.9	20.7
7 20	20 52.92	−24 1.4	2.372	3.370	3.9	20.5
7 30	20 44.84	−24 32.1	2.359	3.370	1.9	20.3
8 9	20 36.62	−24 56.9	2.374	3.370	3.9	20.5
8 19	20 29.04	−25 13.5	2.417	3.369	6.9	20.7
8 29	20 22.78	−25 20.9	2.486	3.368	9.7	20.8
9 8	20 18.35	−25 19.2	2.577	3.368	12.2	21.0
442119 2010 TR_{174}			7 31.5	254°.87	6°.4/25.3	18
6 30	21 8.52	−37 56.3	2.603	3.481	9.8	21.0
7 10	21 2.37	−39 11.4	2.533	3.463	7.9	20.9
7 20	20 54.33	−40 19.5	2.487	3.446	6.6	20.8
7 30	20 45.04	−41 14.4	2.469	3.428	6.6	20.7
8 9	20 35.40	−41 51.8	2.477	3.409	7.9	20.8
8 19	20 26.37	−42 9.3	2.511	3.391	9.8	20.9
8 29	20 18.84	−42 7.2	2.568	3.372	11.9	21.0
9 8	20 13.50	−41 48.1	2.644	3.352	13.8	21.1
145482 2005 UD_{130}			7 31.5	169°.37	1°.4/30.3	18 R
6 30	21 4.36	−20 2.5	2.530	3.418	9.7	20.4
7 10	20 59.08	−20 57.7	2.464	3.420	6.8	20.2
7 20	20 52.36	−21 56.8	2.423	3.422	3.7	20.0
7 30	20 44.77	−22 55.5	2.411	3.424	1.4	19.9
8 9	20 37.00	−23 49.6	2.427	3.425	3.6	20.0
8 19	20 29.79	−24 35.9	2.472	3.426	6.6	20.2
8 29	20 23.81	−25 12.3	2.543	3.427	9.5	20.4
9 8	20 19.58	−25 38.0	2.637	3.428	11.9	20.6

13341 1998 ST_{123} 7 31.5 236°.12 4°.5/ 3.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 4.55	− 3 41.5	2.044	2.892	13.3	18.4
7 10	20 59.44	− 3 46.7	1.965	2.886	10.4	18.2
7 20	20 52.66	− 4 8.0	1.909	2.880	7.3	18.0
7 30	20 44.81	− 4 44.5	1.878	2.874	4.9	17.9
8 9	20 36.71	− 5 33.1	1.874	2.868	5.0	17.9
8 19	20 29.21	− 6 30.0	1.896	2.861	7.5	18.0
8 29	20 23.11	− 7 30.1	1.945	2.855	10.7	18.2
9 8	20 19.00	− 8 28.9	2.015	2.848	13.6	18.4

192893 1999 XM_{122} 7 31.5 296°.92 0°.4/31.3 18

6 30	21 7.94	−18 29.4	1.677	2.573	13.3	19.5
7 10	21 2.37	−18 38.2	1.591	2.550	9.6	19.3
7 20	20 54.51	−18 52.4	1.528	2.528	5.3	19.0
7 30	20 45.08	−19 8.6	1.490	2.505	0.8	18.6
8 9	20 35.20	−19 22.7	1.479	2.483	4.2	18.8
8 19	20 26.03	−19 31.5	1.493	2.460	8.9	19.0
8 29	20 18.73	−19 33.0	1.531	2.438	13.2	19.2
9 8	20 14.08	−19 26.4	1.589	2.416	16.9	19.4

103928 2000 DL_{64} 7 31.5 10°.89 3°.1/ 2.5 18

6 30	21 3.63	− 8 29.5	1.628	2.508	14.5	18.4
7 10	20 59.05	− 8 46.2	1.564	2.509	10.9	18.2
7 20	20 52.53	− 9 18.6	1.522	2.511	6.9	17.9
7 30	20 44.81	−10 4.0	1.505	2.513	3.5	17.7
8 9	20 36.88	−10 57.9	1.512	2.516	4.3	17.8
8 19	20 29.78	−11 55.0	1.546	2.519	8.1	18.0
8 29	20 24.42	−12 50.0	1.603	2.522	11.9	18.3
9 8	20 21.42	−13 38.7	1.682	2.527	15.3	18.5

365893 2011 WB_{3} 7 31.5 312°.34 3°.8/29.8 17 R

6 30	21 7.15	−22 42.5	1.066	1.989	16.9	20.8
7 10	21 2.86	−23 33.8	0.995	1.967	12.2	20.5
7 20	20 55.24	−24 32.2	0.943	1.945	7.1	20.1
7 30	20 45.22	−25 28.8	0.913	1.924	3.8	19.9
8 9	20 34.44	−26 13.6	0.905	1.904	7.5	20.0
8 19	20 24.76	−26 39.8	0.918	1.884	13.1	20.3
8 29	20 17.96	−26 44.6	0.950	1.866	18.5	20.5
9 8	20 15.08	−26 29.4	0.999	1.848	23.0	20.7

111734 2002 CB_{65} 7 31.5 330°.41 5°.3/27.9 18

6 30	21 7.74	−31 42.7	1.998	2.894	11.5	19.4
7 10	21 1.91	−32 32.1	1.938	2.890	8.6	19.2
7 20	20 54.07	−33 16.3	1.902	2.887	6.1	19.1
7 30	20 45.02	−33 49.2	1.892	2.883	5.4	19.0
8 9	20 35.79	−34 6.5	1.908	2.880	7.0	19.1
8 19	20 27.45	−34 6.2	1.949	2.877	9.8	19.3
8 29	20 20.94	−33 49.0	2.014	2.874	12.6	19.5
9 8	20 16.87	−33 17.2	2.098	2.871	15.1	19.6

472328 2015 AF_{149} 7 31.5 66°.74 1°.8/30.7 17

6 30	21 10.76	−21 16.5	1.426	2.329	14.7	20.6
7 10	21 4.22	−21 40.1	1.383	2.345	10.4	20.4
7 20	20 55.35	−22 6.5	1.361	2.361	5.7	20.2
7 30	20 45.18	−22 30.3	1.364	2.377	1.9	20.0
8 9	20 35.06	−22 46.7	1.392	2.394	5.0	20.2
8 19	20 26.27	−22 52.9	1.446	2.410	9.5	20.5
8 29	20 19.81	−22 48.3	1.523	2.426	13.5	20.8
9 8	20 16.26	−22 33.8	1.619	2.442	16.8	21.1

321991 2010 UM_{63} 7 31.5 230°.26 3°.4/28.9 18

6 30	21 7.01	−28 18.9	2.516	3.405	9.6	21.5
7 10	21 1.03	−28 52.6	2.446	3.399	7.0	21.3
7 20	20 53.47	−29 23.8	2.402	3.393	4.5	21.2
7 30	20 44.95	−29 48.4	2.385	3.386	3.4	21.1
8 9	20 36.27	−30 3.1	2.397	3.380	5.0	21.2
8 19	20 28.24	−30 6.2	2.435	3.373	7.6	21.3
8 29	20 21.61	−29 57.5	2.499	3.366	10.3	21.5
9 8	20 16.91	−29 38.1	2.585	3.358	12.6	21.6

233834 2008 UA_{267} 7 31.5 62°.49 1°.5/30.7 17

6 30	21 8.21	−20 46.8	1.708	2.606	13.0	20.6
7 10	21 2.29	−21 13.0	1.648	2.609	9.2	20.4
7 20	20 54.30	−21 42.6	1.612	2.611	5.1	20.1
7 30	20 45.06	−22 11.0	1.601	2.614	1.6	19.9
8 9	20 35.68	−22 33.6	1.616	2.617	4.5	20.1
8 19	20 27.26	−22 47.4	1.658	2.620	8.6	20.4
8 29	20 20.76	−22 51.2	1.723	2.623	12.4	20.6
9 8	20 16.79	−22 44.9	1.809	2.626	15.6	20.8

137333 1999 TN_{63} 7 31.5 100°.70 5°.1/28.7 18

6 30	21 11.20	−27 44.1	1.490	2.394	14.1	19.8
7 10	21 4.74	−28 50.3	1.443	2.403	10.3	19.6
7 20	20 55.75	−29 54.0	1.418	2.411	6.6	19.4
7 30	20 45.26	−30 46.6	1.418	2.420	5.2	19.3
8 9	20 34.67	−31 21.6	1.444	2.428	7.5	19.5
8 19	20 25.34	−31 36.3	1.494	2.436	11.1	19.7
8 29	20 18.42	−31 31.1	1.566	2.444	14.7	19.9
9 8	20 14.55	−31 9.3	1.657	2.452	17.7	20.2

36033 Viseggi 7 31.5 354°.94 2°.4/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 0.80	− 9 32.6	1.522	2.413	14.7	18.4
7 10	20 57.21	−10 5.2	1.455	2.407	11.0	18.2
7 20	20 51.60	−10 54.7	1.410	2.403	6.7	18.0
7 30	20 44.72	−11 57.5	1.388	2.399	2.9	17.7
8 9	20 37.57	−13 8.0	1.392	2.397	4.1	17.8
8 19	20 31.21	−14 19.4	1.420	2.396	8.4	18.0
8 29	20 26.62	−15 25.9	1.472	2.396	12.5	18.3
9 8	20 24.47	−16 22.6	1.544	2.396	16.0	18.5

431111 2006 GQ_{39} 7 31.5 55°.06 7°.0/ 6.3 17

6 30	21 4.33	+ 3 27.3	1.577	2.407	17.3	20.4
7 10	20 59.42	+ 2 56.8	1.529	2.430	14.0	20.2
7 20	20 52.66	+ 1 59.1	1.500	2.453	10.6	20.1
7 30	20 44.85	+ 0 36.4	1.495	2.476	7.8	20.0
8 9	20 37.01	− 1 5.3	1.514	2.499	7.1	20.0
8 19	20 30.11	− 2 57.8	1.559	2.523	9.0	20.2
8 29	20 25.02	− 4 52.2	1.629	2.546	11.9	20.4
9 8	20 22.25	− 6 40.5	1.722	2.570	14.9	20.7

282063 1999 VJ_{44} 7 31.5 299°.33 11°.4/ 6.9 18

6 30	21 4.37	+ 9 49.6	1.753	2.540	17.6	20.1
7 10	20 59.74	+10 50.8	1.666	2.519	15.5	19.9
7 20	20 53.05	+11 27.2	1.596	2.499	13.4	19.7
7 30	20 44.94	+11 34.4	1.547	2.478	11.9	19.5
8 9	20 36.32	+11 10.8	1.520	2.458	11.5	19.5
8 19	20 28.23	+10 18.6	1.516	2.438	12.5	19.5
8 29	20 21.71	+ 9 3.3	1.534	2.418	14.5	19.6
9 8	20 17.55	+ 7 33.3	1.571	2.399	17.0	19.7

400940 2010 VG_{31} 7 31.5 309°.72 5°.6/ 4.2 17

6 30	21 2.67	− 1 43.0	1.986	2.830	13.7	20.6
7 10	20 58.25	− 1 30.9	1.897	2.811	11.1	20.4
7 20	20 52.10	− 1 35.8	1.829	2.792	8.2	20.2
7 30	20 44.80	− 1 58.1	1.785	2.773	6.0	20.0
8 9	20 37.14	− 2 36.2	1.768	2.755	6.0	20.0
8 19	20 30.00	− 3 26.4	1.776	2.737	8.2	20.1
8 29	20 24.23	− 4 24.1	1.808	2.720	11.3	20.3
9 8	20 20.47	− 5 23.8	1.863	2.702	14.3	20.4

471011 2009 SD_{261} 7 31.5 319°.35 2°.4/ 1.8 17

6 30	21 4.97	−11 52.5	1.984	2.862	12.3	20.5
7 10	20 59.86	−11 34.6	1.900	2.846	9.2	20.3
7 20	20 52.96	−11 25.1	1.839	2.830	5.7	20.0
7 30	20 44.91	−11 23.1	1.804	2.814	2.6	19.8
8 9	20 36.57	−11 26.5	1.796	2.799	3.8	19.9
8 19	20 28.85	−11 33.4	1.814	2.784	7.4	20.1
8 29	20 22.60	−11 41.1	1.858	2.769	11.0	20.2
9 8	20 18.46	−11 47.5	1.923	2.755	14.2	20.4

382585 2002 CM_{207} 7 31.5 238°.16 0°.6/31.9 18

6 30	21 7.01	−13 57.1	2.040	2.919	12.0	21.6
7 10	21 1.33	−14 32.3	1.956	2.906	8.7	21.4
7 20	20 53.79	−15 17.2	1.897	2.892	5.0	21.1
7 30	20 45.03	−16 8.3	1.864	2.878	1.0	20.8
8 9	20 35.91	−17 1.1	1.859	2.863	3.4	21.0
8 19	20 27.37	−17 51.2	1.882	2.848	7.5	21.2
8 29	20 20.33	−18 35.0	1.930	2.832	11.1	21.4
9 8	20 15.43	−19 10.2	2.001	2.816	14.3	21.6

429990 2013 PL_{37} 7 31.5 9°.84 8°.0/ 3.0 17

6 30	21 8.24	− 5 16.6	1.117	2.001	19.3	19.7
7 10	21 2.92	− 3 49.0	1.064	2.003	15.4	19.5
7 20	20 54.88	− 2 40.4	1.029	2.005	11.3	19.3
7 30	20 45.17	− 1 54.4	1.015	2.009	8.4	19.1
8 9	20 35.26	− 1 31.8	1.023	2.013	8.7	19.2
8 19	20 26.63	− 1 30.2	1.053	2.019	11.9	19.4
8 29	20 20.53	− 1 44.2	1.104	2.026	15.8	19.6
9 8	20 17.69	− 2 6.8	1.172	2.034	19.5	19.9

352215 2007 TN_{18} 7 31.5 307°.01 3°.6/29.2 18

6 30	21 5.89	−23 53.9	1.625	2.532	13.0	20.5
7 10	21 1.13	−24 57.3	1.542	2.506	9.4	20.3
7 20	20 53.95	−26 5.6	1.481	2.480	5.6	20.0
7 30	20 45.07	−27 11.3	1.446	2.454	3.6	19.8
8 9	20 35.61	−28 7.3	1.436	2.429	6.4	19.9
8 19	20 26.84	−28 47.9	1.451	2.403	10.6	20.1
8 29	20 20.01	−29 10.4	1.489	2.379	14.6	20.3
9 8	20 15.98	−29 15.0	1.545	2.354	18.1	20.4

220971 2005 MX_{45} 7 31.5 8°.71 3°.3/ 2.3 17

6 30	21 1.85	− 9 32.9	1.040	1.948	18.4	19.4
7 10	20 58.51	− 9 47.0	0.989	1.950	13.8	19.1
7 20	20 52.51	−10 22.2	0.957	1.952	8.6	18.8
7 30	20 44.85	−11 15.0	0.945	1.956	3.9	18.6
8 9	20 36.99	−12 18.2	0.956	1.962	5.2	18.7
8 19	20 30.34	−13 23.6	0.988	1.969	10.3	19.0
8 29	20 26.16	−14 23.6	1.041	1.978	15.2	19.3
9 8	20 25.16	−15 12.6	1.112	1.987	19.3	19.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
501668 2014 TB_6			7 31.5 178°.53	5°.4/28.6 17		
	h m	° ′			°	m
6 30	21 13.19	−28 42.6	1.533	2.434	14.0	21.4
7 10	21 6.25	−29 45.4	1.477	2.435	10.3	21.1
7 20	20 56.65	−30 45.0	1.445	2.436	6.8	20.9
7 30	20 45.41	−31 33.0	1.437	2.436	5.4	20.9
8 9	20 33.96	−32 2.7	1.455	2.436	7.7	21.0
8 19	20 23.72	−32 11.4	1.497	2.436	11.4	21.2
8 29	20 15.94	−31 59.9	1.562	2.435	15.0	21.4
9 8	20 11.31	−31 31.6	1.645	2.434	18.0	21.6
319624 2006 SU_{306}			7 31.5 348°.84	0°.4/31.3 17		
6 30	21 0.73	−16 19.4	0.965	1.892	17.7	19.3
7 10	20 58.08	−16 56.2	0.907	1.881	12.8	19.0
7 20	20 52.46	−17 48.0	0.867	1.871	7.1	18.7
7 30	20 44.87	−18 48.3	0.848	1.863	0.9	18.2
8 9	20 36.86	−19 48.0	0.850	1.857	5.5	18.5
8 19	20 30.07	−20 38.9	0.873	1.852	11.6	18.9
8 29	20 25.96	−21 15.1	0.914	1.849	16.9	19.1
9 8	20 25.40	−21 34.3	0.973	1.848	21.4	19.4
75533 1999 XM_{226}			7 31.5 175°.75	1°.3/30.7 18		
6 30	21 9.75	−19 29.5	1.887	2.776	12.4	19.6
7 10	21 3.30	−20 11.3	1.822	2.779	8.8	19.4
7 20	20 54.85	−20 57.9	1.782	2.781	4.8	19.2
7 30	20 45.17	−21 44.4	1.768	2.782	1.3	18.9
8 9	20 35.30	−22 25.8	1.782	2.783	4.2	19.2
8 19	20 26.26	−22 58.3	1.824	2.783	8.2	19.4
8 29	20 19.00	−23 20.0	1.890	2.782	11.8	19.6
9 8	20 14.16	−23 30.5	1.977	2.781	14.9	19.8
70506 1999 TX_{101}			7 31.5 176°.48	7°.2/25.7 18		
6 30	21 11.39	−37 41.8	2.197	3.078	11.2	18.9
7 10	21 4.56	−39 5.3	2.147	3.080	9.0	18.8
7 20	20 55.58	−40 19.6	2.121	3.081	7.5	18.7
7 30	20 45.28	−41 17.5	2.121	3.082	7.3	18.7
8 9	20 34.74	−41 54.1	2.148	3.082	8.7	18.8
8 19	20 25.10	−42 7.7	2.199	3.083	10.9	18.9
8 29	20 17.37	−41 59.4	2.273	3.082	13.1	19.1
9 8	20 12.22	−41 33.0	2.365	3.081	15.1	19.2
478287 2011 WK_{10}			7 31.5 219°.56	1°.2/30.7 18		
6 30	21 5.58	−19 55.8	2.244	3.134	10.6	22.1
7 10	21 0.11	−20 30.3	2.174	3.131	7.6	21.9
7 20	20 53.02	−21 8.7	2.128	3.127	4.1	21.7
7 30	20 44.93	−21 47.0	2.110	3.124	1.2	21.5
8 9	20 36.65	−22 21.3	2.120	3.120	3.7	21.6
8 19	20 29.01	−22 48.8	2.157	3.116	7.1	21.9
8 29	20 22.78	−23 7.4	2.220	3.112	10.3	22.1
9 8	20 18.51	−23 16.8	2.305	3.108	13.0	22.2
74013 1998 FJ_{109}			7 31.5 29°.24	3°.3/30.3 18		
6 30	21 11.68	−24 36.9	1.211	2.123	16.1	18.7
7 10	21 5.35	−24 51.3	1.162	2.128	11.5	18.5
7 20	20 56.18	−25 4.8	1.134	2.134	6.6	18.2
7 30	20 45.35	−25 11.2	1.128	2.140	3.3	18.0
8 9	20 34.50	−25 5.6	1.147	2.146	6.3	18.2
8 19	20 25.17	−24 46.4	1.190	2.153	11.1	18.5
8 29	20 18.60	−24 14.8	1.253	2.161	15.5	18.8
9 8	20 15.43	−23 33.1	1.335	2.169	19.1	19.1
336196 2008 RY_{144}			7 31.5 17°.06	2°.2/ 1.7 18		
6 30	21 6.40	−11 49.8	1.483	2.373	15.1	20.2
7 10	21 1.19	−11 53.6	1.422	2.374	11.1	19.9
7 20	20 53.79	−12 10.0	1.383	2.377	6.7	19.7
7 30	20 45.05	−12 36.5	1.367	2.379	2.6	19.4
8 9	20 36.11	−13 8.7	1.377	2.382	4.3	19.6
8 19	20 28.15	−13 42.2	1.412	2.385	8.7	19.8
8 29	20 22.19	−14 12.8	1.470	2.389	12.9	20.1
9 8	20 18.88	−14 37.5	1.549	2.393	16.4	20.3
345893 2007 RA_{84}			7 31.5 345°.90	8°.7/27.3 18		
6 30	21 11.88	−37 47.2	1.509	2.406	14.5	20.0
7 10	21 5.50	−38 38.5	1.456	2.400	11.6	19.8
7 20	20 56.30	−39 16.9	1.424	2.395	9.3	19.7
7 30	20 45.39	−39 33.8	1.415	2.391	8.8	19.6
8 9	20 34.36	−39 23.9	1.430	2.387	10.4	19.7
8 19	20 24.74	−38 46.9	1.468	2.384	13.2	19.9
8 29	20 17.82	−37 46.4	1.526	2.381	16.2	20.1
9 8	20 14.24	−36 28.5	1.603	2.379	18.9	20.3
384005 2008 UT_{45}			7 31.5 150°.43	5°.6/ 5.1 18		
6 30	21 5.81	+ 1 18.2	2.364	3.177	12.8	21.6
7 10	21 0.08	+ 1 21.6	2.295	3.186	10.4	21.5
7 20	20 52.93	+ 1 8.3	2.248	3.195	7.9	21.3
7 30	20 44.93	+ 0 38.6	2.227	3.203	6.0	21.2
8 9	20 36.80	− 0 5.3	2.233	3.211	5.8	21.2
8 19	20 29.27	− 0 59.9	2.267	3.218	7.4	21.3
8 29	20 23.00	− 2 0.7	2.327	3.224	9.7	21.5
9 8	20 18.50	− 3 3.2	2.410	3.230	12.0	21.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
427438 2001 FQ_{40}			7 31.5 71°.01	3°.5/ 3.1 17		
	h m	° ′			°	m
6 30	21 6.43	− 6 17.5	1.751	2.614	14.4	20.8
7 10	21 0.75	− 6 41.4	1.705	2.639	10.9	20.6
7 20	20 53.34	− 7 21.1	1.683	2.665	7.1	20.5
7 30	20 44.98	− 8 13.8	1.685	2.690	3.9	20.3
8 9	20 36.63	− 9 14.6	1.714	2.714	4.3	20.4
8 19	20 29.21	−10 18.0	1.770	2.739	7.6	20.7
8 29	20 23.52	−11 19.1	1.850	2.764	10.9	20.9
9 8	20 20.05	−12 13.9	1.953	2.788	13.9	21.2
31755 1999 JA_{96}			7 31.5 320°.16	1°.0/ 1.3 18		
6 30	21 3.21	−11 54.3	1.919	2.802	12.5	18.2
7 10	20 58.65	−12 47.4	1.846	2.796	9.1	18.0
7 20	20 52.32	−13 53.4	1.796	2.791	5.3	17.7
7 30	20 44.86	−15 7.9	1.772	2.786	1.4	17.5
8 9	20 37.13	−16 25.4	1.776	2.781	3.4	17.6
8 19	20 30.02	−17 40.2	1.806	2.776	7.4	17.8
8 29	20 24.40	−18 47.4	1.862	2.771	11.1	18.1
9 8	20 20.90	−19 43.8	1.940	2.767	14.3	18.3
357292 2002 UF_{35}			7 31.5 308°.70	0°.3/31.8 18		
6 30	21 3.80	−14 0.3	1.758	2.649	13.0	20.2
7 10	20 59.27	−14 52.2	1.681	2.637	9.4	20.0
7 20	20 52.75	−15 56.3	1.627	2.625	5.3	19.7
7 30	20 44.93	−17 8.0	1.599	2.614	0.9	19.3
8 9	20 36.75	−18 21.2	1.598	2.603	3.8	19.5
8 19	20 29.23	−19 30.0	1.623	2.592	8.2	19.8
8 29	20 23.35	−20 29.4	1.672	2.581	12.2	20.0
9 8	20 19.82	−21 16.7	1.743	2.571	15.6	20.2
447304 2005 WJ_{140}			7 31.5 251°.36	4°.4/27.4 18		
6 30	21 5.55	−29 15.2	2.410	3.304	9.9	20.7
7 10	21 0.21	−30 35.7	2.342	3.295	7.3	20.6
7 20	20 53.16	−31 54.7	2.300	3.287	5.1	20.4
7 30	20 44.98	−33 6.4	2.286	3.278	4.5	20.4
8 9	20 36.51	−34 5.6	2.300	3.269	6.2	20.5
8 19	20 28.61	−34 48.9	2.340	3.260	8.7	20.6
8 29	20 22.11	−35 15.3	2.404	3.251	11.3	20.8
9 8	20 17.61	−35 25.6	2.490	3.242	13.5	20.9
240940 2006 GF_{21}			7 31.5 199°.15	2°.0/ 1.9 17		
6 30	21 6.95	−10 20.8	2.325	3.188	11.3	21.8
7 10	21 1.02	−10 37.8	2.246	3.184	8.4	21.7
7 20	20 53.52	−11 4.8	2.192	3.179	5.2	21.4
7 30	20 45.03	−11 39.6	2.164	3.174	2.3	21.2
8 9	20 36.33	−12 19.1	2.166	3.169	3.3	21.3
8 19	20 28.19	−12 59.8	2.196	3.162	6.5	21.5
8 29	20 21.36	−13 38.7	2.252	3.155	9.7	21.7
9 8	20 16.40	−14 13.2	2.332	3.147	12.5	21.9
266975 2010 VQ_{137}			7 31.5 320°.44	0°.0/31.5 18		
6 30	21 5.19	−16 30.8	1.138	2.052	16.7	20.0
7 10	21 1.19	−16 47.4	1.062	2.030	12.2	19.7
7 20	20 54.23	−17 15.9	1.006	2.008	6.9	19.3
7 30	20 45.18	−17 51.9	0.971	1.986	1.0	18.9
8 9	20 35.44	−18 28.8	0.960	1.966	5.2	19.1
8 19	20 26.66	−19 0.5	0.970	1.946	11.1	19.4
8 29	20 20.39	−19 22.5	1.001	1.928	16.6	19.6
9 8	20 17.62	−19 32.4	1.048	1.911	21.2	19.8
42236 2001 EP_{19}			7 31.5 275°.31	6°.3/ 5.8 18		
6 30	21 2.40	+ 3 17.2	2.356	3.164	13.0	19.4
7 10	20 57.76	+ 3 26.3	2.277	3.160	10.8	19.3
7 20	20 51.72	+ 3 17.5	2.219	3.157	8.5	19.1
7 30	20 44.79	+ 2 50.5	2.186	3.153	6.8	19.0
8 9	20 37.67	+ 2 7.0	2.179	3.149	6.4	19.0
8 19	20 31.05	+ 1 10.2	2.198	3.145	7.8	19.1
8 29	20 25.61	+ 0 4.7	2.243	3.142	9.9	19.2
9 8	20 21.86	− 1 4.3	2.311	3.138	12.3	19.3
257161 2008 HO_{54}			7 31.5 198°.49	3°.9/ 3.6 18		
6 30	21 3.38	− 4 18.8	2.415	3.259	11.6	20.8
7 10	20 58.40	− 4 20.3	2.339	3.258	9.0	20.6
7 20	20 52.04	− 4 34.8	2.287	3.257	6.3	20.4
7 30	20 44.84	− 5 1.5	2.260	3.256	4.2	20.3
8 9	20 37.46	− 5 37.9	2.261	3.254	4.3	20.3
8 19	20 30.61	− 6 21.0	2.290	3.253	6.5	20.5
8 29	20 24.93	− 7 7.2	2.344	3.251	9.2	20.6
9 8	20 20.94	− 7 52.9	2.422	3.249	11.8	20.8
119049 2001 HB_{63}			7 31.5 25°.35	0°.9/31.2 17		
6 30	21 8.97	−18 7.3	1.051	1.967	17.6	19.3
7 10	21 3.72	−18 35.6	1.002	1.971	12.6	19.0
7 20	20 55.44	−19 13.5	0.972	1.974	6.9	18.7
7 30	20 45.31	−19 54.3	0.964	1.979	1.2	18.4
8 9	20 34.99	−20 30.4	0.979	1.984	5.5	18.7
8 19	20 26.15	−20 56.5	1.016	1.989	11.2	19.0
8 29	20 20.15	−21 9.7	1.073	1.995	16.2	19.3
9 8	20 17.70	−21 9.8	1.148	2.001	20.4	19.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
277943 2006 QG_1			7 31.5	30°.62	5°.8/29.0	16
	h m	° ′			°	m
6 30	21 9.11	−29 47.1	1.278	2.193	15.3	19.2
7 10	21 3.31	−30 29.2	1.248	2.211	11.2	19.0
7 20	20 54.93	−31 4.5	1.238	2.231	7.4	18.8
7 30	20 45.21	−31 25.4	1.251	2.252	5.8	18.8
8 9	20 35.68	−31 27.4	1.288	2.274	8.0	19.0
8 19	20 27.72	−31 9.7	1.348	2.296	11.5	19.3
8 29	20 22.38	−30 34.7	1.429	2.320	15.0	19.5
9 8	20 20.15	−29 46.4	1.529	2.344	18.0	19.8
380665 2005 EF_{224}			7 31.5	288°.55	15°.4/19.8	18
6 30	21 31.14	−53 7.8	1.594	2.427	17.1	19.9
7 10	21 21.37	−54 54.0	1.515	2.385	15.9	19.8
7 20	21 6.21	−56 18.5	1.455	2.342	15.4	19.6
7 30	20 46.89	−57 4.4	1.416	2.298	16.0	19.5
8 9	20 26.12	−56 59.8	1.397	2.254	17.6	19.5
8 19	20 7.22	−56 2.3	1.398	2.208	19.9	19.5
8 29	19 52.98	−54 18.9	1.415	2.161	22.4	19.6
9 8	19 44.68	−52 2.6	1.446	2.114	24.9	19.7
353141 2009 HK_8			7 31.5	119°.55	0°.5/31.2	18
6 30	21 5.31	−17 8.0	2.148	3.035	11.2	21.1
7 10	20 59.92	−17 50.9	2.087	3.042	7.9	20.9
7 20	20 52.93	−18 39.9	2.050	3.049	4.3	20.7
7 30	20 44.97	−19 31.0	2.040	3.055	0.7	20.4
8 9	20 36.88	−20 19.7	2.059	3.061	3.4	20.6
8 19	20 29.47	−21 2.4	2.104	3.067	7.0	20.9
8 29	20 23.51	−21 36.5	2.176	3.073	10.3	21.1
9 8	20 19.54	−22 0.9	2.269	3.079	13.0	21.3
119001 2000 YX_{60}			7 31.6	140°.66	1°.4/ 1.7	18
6 30	21 4.64	−12 17.4	2.603	3.471	10.1	20.0
7 10	20 59.18	−12 27.9	2.537	3.479	7.4	19.9
7 20	20 52.42	−12 45.6	2.495	3.486	4.4	19.7
7 30	20 44.90	−13 8.4	2.481	3.493	1.6	19.5
8 9	20 37.29	−13 34.1	2.496	3.499	2.8	19.6
8 19	20 30.25	−14 0.0	2.539	3.505	5.8	19.8
8 29	20 24.37	−14 24.0	2.608	3.511	8.6	20.0
9 8	20 20.11	−14 44.2	2.702	3.517	11.0	20.2
396986 2005 SF_{149}			7 31.6	350°.58	1°.2/30.8	18
6 30	21 4.63	−19 19.3	1.886	2.783	12.0	20.8
7 10	20 59.68	−19 55.9	1.820	2.781	8.5	20.6
7 20	20 52.90	−20 37.7	1.779	2.779	4.7	20.4
7 30	20 44.98	−21 20.2	1.763	2.777	1.2	20.1
8 9	20 36.87	−21 58.7	1.774	2.775	4.0	20.3
8 19	20 29.51	−22 29.7	1.811	2.774	7.9	20.6
8 29	20 23.77	−22 50.8	1.873	2.773	11.5	20.8
9 8	20 20.27	−23 1.3	1.955	2.773	14.5	21.0
388653 2007 TS_{253}			7 31.6	325°.22	3°.3/ 2.7	17
6 30	21 4.64	− 7 47.3	1.786	2.656	13.8	21.5
7 10	20 59.72	− 7 57.1	1.714	2.653	10.5	21.3
7 20	20 52.95	− 8 21.7	1.665	2.650	6.8	21.0
7 30	20 44.99	− 8 59.2	1.641	2.647	3.7	20.8
8 9	20 36.80	− 9 45.8	1.643	2.644	4.3	20.9
8 19	20 29.32	−10 37.1	1.671	2.642	7.8	21.1
8 29	20 23.46	−11 28.1	1.724	2.639	11.5	21.3
9 8	20 19.83	−12 14.8	1.798	2.637	14.7	21.5
507187 2010 RA_{48}			7 31.6	291°.25	2°.4/ 1.8	17
6 30	21 7.33	−11 16.7	1.379	2.269	15.9	22.1
7 10	21 2.39	−11 27.6	1.292	2.245	11.9	21.8
7 20	20 54.79	−11 54.2	1.227	2.221	7.3	21.5
7 30	20 45.28	−12 34.1	1.185	2.197	2.9	21.2
8 9	20 35.09	−13 22.5	1.167	2.172	4.8	21.2
8 19	20 25.60	−14 13.5	1.174	2.148	9.9	21.5
8 29	20 18.20	−15 1.4	1.203	2.123	14.9	21.7
9 8	20 13.87	−15 41.6	1.251	2.099	19.3	21.9
225843 2001 XS_{123}			7 31.6	161°.92	2°.4/29.8	17
6 30	21 9.43	−23 11.9	2.170	3.059	11.0	21.8
7 10	21 2.90	−24 3.2	2.110	3.066	7.8	21.6
7 20	20 54.59	−24 55.9	2.075	3.072	4.5	21.4
7 30	20 45.21	−25 44.8	2.067	3.077	2.4	21.3
8 9	20 35.69	−26 25.4	2.089	3.082	4.6	21.4
8 19	20 26.93	−26 54.7	2.137	3.086	7.9	21.7
8 29	20 19.78	−27 11.5	2.211	3.089	11.0	21.9
9 8	20 14.80	−27 16.3	2.307	3.091	13.6	22.0
40371 1999 NF_{30}			7 31.6	344°.52	1°.3/31.9	18
6 30	21 4.98	−16 51.7	0.963	1.886	18.2	17.4
7 10	21 1.18	−16 23.5	0.902	1.873	13.3	17.1
7 20	20 54.24	−16 3.5	0.858	1.861	7.6	16.8
7 30	20 45.21	−15 49.6	0.835	1.850	1.8	16.4
8 9	20 35.74	−15 38.3	0.834	1.841	5.3	16.6
8 19	20 27.59	−15 26.7	0.853	1.834	11.4	16.9
8 29	20 22.27	−15 12.5	0.891	1.828	16.9	17.2
9 8	20 20.66	−14 54.0	0.945	1.824	21.6	17.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V
10520 1990 RS_2			7 31.6	295°.55	0°.5/31.8	18
	h m	° ′			°	m
6 30	21 8.70	−16 4.5	1.294	2.197	15.9	17.6
7 10	21 3.43	−16 14.5	1.219	2.180	11.6	17.3
7 20	20 55.36	−16 34.7	1.164	2.163	6.6	17.0
7 30	20 45.37	−17 1.1	1.132	2.147	1.1	16.6
8 9	20 34.83	−17 28.5	1.124	2.130	4.8	16.8
8 19	20 25.24	−17 52.0	1.141	2.114	10.3	17.1
8 29	20 17.99	−18 8.1	1.179	2.098	15.3	17.3
9 8	20 14.01	−18 15.0	1.235	2.082	19.6	17.5
399787 2005 OZ_{16}			7 31.6	301°.76	2°.8/ 1.9	18
6 30	21 8.28	−11 33.1	1.963	2.835	12.7	20.3
7 10	21 2.21	−10 58.0	1.882	2.824	9.5	20.1
7 20	20 54.29	−10 30.5	1.826	2.813	6.0	19.8
7 30	20 45.20	−10 10.4	1.795	2.803	3.1	19.6
8 9	20 35.85	− 9 56.5	1.792	2.792	4.1	19.7
8 19	20 27.20	− 9 47.3	1.815	2.782	7.6	19.9
8 29	20 20.13	− 9 41.1	1.865	2.772	11.2	20.1
9 8	20 15.26	− 9 35.8	1.935	2.762	14.3	20.2
357154 2002 CZ_{29}			7 31.6	199°.40	2°.9/29.2	18
6 30	21 6.86	−26 38.6	2.613	3.502	9.4	21.6
7 10	21 0.91	−27 19.1	2.545	3.499	6.8	21.5
7 20	20 53.46	−27 58.4	2.502	3.495	4.2	21.3
7 30	20 45.09	−28 32.5	2.488	3.491	2.9	21.2
8 9	20 36.55	−28 57.9	2.501	3.487	4.6	21.3
8 19	20 28.62	−29 12.6	2.543	3.483	7.2	21.5
8 29	20 22.00	−29 15.9	2.610	3.478	9.8	21.6
9 8	20 17.21	−29 8.6	2.700	3.473	12.1	21.8
208865 2002 SA_{63}			7 31.6	238°.56	1°.1/30.8	18
6 30	21 6.21	−19 3.6	2.011	2.902	11.6	20.6
7 10	21 0.78	−19 46.6	1.939	2.897	8.3	20.4
7 20	20 53.52	−20 35.1	1.892	2.891	4.5	20.2
7 30	20 45.10	−21 24.5	1.871	2.885	1.2	19.9
8 9	20 36.44	−22 10.2	1.878	2.879	4.0	20.1
8 19	20 28.45	−22 48.1	1.912	2.873	7.8	20.4
8 29	20 22.03	−23 16.0	1.971	2.867	11.3	20.6
9 8	20 17.78	−23 32.8	2.052	2.860	14.3	20.7
218252 2003 AW_5			7 31.6	244°.94	0°.0/31.4	18
6 30	21 11.73	−18 4.5	1.905	2.788	12.5	20.4
7 10	21 4.85	−18 4.2	1.820	2.773	9.1	20.1
7 20	20 55.84	−18 8.1	1.759	2.757	5.1	19.9
7 30	20 45.44	−18 13.2	1.725	2.740	0.7	19.5
8 9	20 34.67	−18 16.5	1.719	2.723	3.8	19.7
8 19	20 24.64	−18 15.7	1.740	2.705	8.1	19.9
8 29	20 16.37	−18 9.5	1.787	2.686	12.0	20.1
9 8	20 10.56	−17 57.6	1.855	2.667	15.4	20.3
82780 2001 QF_{18}			7 31.6	209°.30	0°.5/31.9	18
6 30	21 5.40	−14 48.8	2.041	2.925	11.8	19.4
7 10	21 0.10	−15 14.9	1.972	2.924	8.5	19.2
7 20	20 53.10	−15 48.9	1.927	2.923	4.8	19.0
7 30	20 45.05	−16 27.8	1.908	2.922	0.9	18.7
8 9	20 36.81	−17 7.3	1.917	2.921	3.3	18.9
8 19	20 29.25	−17 44.0	1.953	2.920	7.1	19.1
8 29	20 23.18	−18 14.9	2.014	2.919	10.6	19.3
9 8	20 19.17	−18 38.3	2.097	2.918	13.6	19.5
260042 2004 GY_{52}			7 31.6	123°.65	3°.2/29.8	17
6 30	21 10.14	−24 4.6	1.572	2.474	13.7	20.6
7 10	21 3.92	−24 49.4	1.516	2.477	9.8	20.4
7 20	20 55.36	−25 35.3	1.482	2.480	5.7	20.2
7 30	20 45.36	−26 15.8	1.474	2.483	3.2	20.0
8 9	20 35.20	−26 45.0	1.492	2.486	5.8	20.2
8 19	20 26.13	−26 59.8	1.534	2.489	9.9	20.5
8 29	20 19.24	−26 59.6	1.600	2.492	13.7	20.7
9 8	20 15.19	−26 45.9	1.686	2.494	16.9	20.9
34267 Haniya			7 31.6	5°.31	0°.6/ 1.0	18
6 30	21 4.89	−14 44.3	1.990	2.876	12.0	19.1
7 10	20 59.76	−15 5.9	1.923	2.876	8.6	18.9
7 20	20 52.92	−15 35.6	1.879	2.876	4.9	18.7
7 30	20 45.03	−16 10.2	1.862	2.876	1.0	18.4
8 9	20 36.98	−16 45.9	1.872	2.877	3.3	18.6
8 19	20 29.62	−17 19.0	1.909	2.877	7.2	18.8
8 29	20 23.78	−17 46.8	1.970	2.878	10.7	19.0
9 8	20 20.02	−18 7.6	2.054	2.879	13.7	19.2
342088 2008 SQ_{46}			7 31.6	261°.99	2°.2/30.2	18
6 30	21 8.15	−21 59.7	1.823	2.719	12.4	21.2
7 10	21 2.39	−22 38.9	1.748	2.708	8.8	21.0
7 20	20 54.52	−23 21.6	1.698	2.697	5.0	20.7
7 30	20 45.27	−24 2.5	1.673	2.685	2.2	20.5
8 9	20 35.69	−24 36.3	1.675	2.673	4.9	20.7
8 19	20 26.88	−24 59.5	1.704	2.661	8.8	20.9
8 29	20 19.86	−25 10.3	1.757	2.649	12.6	21.1
9 8	20 15.34	−25 9.0	1.830	2.637	15.8	21.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
340434 2006 FH_{46}			7 31.6	73°.52	2°.3/30.2	17
	h m	° ′			°	m
6 30	21 8.84	−21 59.7	1.682	2.581	13.1	20.3
7 10	21 2.69	−22 45.1	1.638	2.599	9.2	20.1
7 20	20 54.53	−23 32.6	1.618	2.618	5.1	19.9
7 30	20 45.24	−24 16.5	1.624	2.636	2.3	19.7
8 9	20 35.96	−24 51.7	1.657	2.654	4.9	19.9
8 19	20 27.77	−25 15.0	1.715	2.673	8.8	20.2
8 29	20 21.56	−25 25.4	1.797	2.691	12.3	20.5
9 8	20 17.88	−25 23.7	1.900	2.709	15.2	20.7
75474 1999 XQ_{165}			7 31.6	183°.30	3°.1/29.5	18
6 30	21 9.60	−23 2.1	1.764	2.661	12.7	19.2
7 10	21 3.43	−24 8.4	1.702	2.662	9.1	19.0
7 20	20 55.08	−25 17.7	1.664	2.662	5.3	18.8
7 30	20 45.34	−26 23.1	1.652	2.661	3.1	18.6
8 9	20 35.34	−27 18.2	1.668	2.661	5.6	18.8
8 19	20 26.22	−27 58.6	1.710	2.659	9.4	19.0
8 29	20 19.03	−28 22.7	1.775	2.658	13.0	19.2
9 8	20 14.45	−28 31.3	1.861	2.656	16.0	19.4
463202 2012 CG_{25}			7 31.6	347°.01	6°.1/ 3.5	17
6 30	21 4.15	− 5 13.8	1.126	2.015	18.9	20.4
7 10	21 0.18	− 4 55.1	1.063	2.008	14.8	20.2
7 20	20 53.54	− 4 59.8	1.019	2.002	10.3	19.9
7 30	20 45.15	− 5 28.1	0.996	1.998	6.7	19.7
8 9	20 36.38	− 6 15.8	0.994	1.994	6.9	19.7
8 19	20 28.66	− 7 16.5	1.015	1.991	10.8	19.9
8 29	20 23.31	− 8 21.8	1.056	1.989	15.4	20.2
9 8	20 21.15	− 9 24.0	1.116	1.988	19.5	20.4
516021 2015 SY_{7}			7 31.6	335°.78	3°.4/29.8	18
6 30	21 9.11	−27 54.3	2.029	2.924	11.4	20.2
7 10	21 2.81	−28 4.8	1.962	2.918	8.3	20.0
7 20	20 54.61	−28 11.6	1.919	2.913	5.1	19.8
7 30	20 45.28	−28 10.7	1.903	2.908	3.4	19.6
8 9	20 35.83	−27 59.0	1.914	2.904	5.3	19.8
8 19	20 27.27	−27 35.7	1.951	2.900	8.5	19.9
8 29	20 20.48	−27 1.4	2.013	2.896	11.7	20.1
9 8	20 16.03	−26 18.1	2.096	2.892	14.4	20.3
20361 Romanishin			7 31.6	14°.81	8°.9/25.6	18
6 30	21 6.53	−33 46.3	1.321	2.235	14.9	17.3
7 10	21 1.95	−35 43.3	1.282	2.238	11.6	17.1
7 20	20 54.51	−37 31.8	1.264	2.243	9.3	17.0
7 30	20 45.28	−38 59.9	1.270	2.249	9.1	17.0
8 9	20 35.82	−39 58.8	1.298	2.255	11.2	17.1
8 19	20 27.68	−40 25.3	1.348	2.262	14.3	17.3
8 29	20 22.19	−40 21.3	1.417	2.270	17.3	17.6
9 8	20 20.06	−39 52.1	1.503	2.279	20.0	17.8
343541 2010 FA_{7}			7 31.6	264°.42	3°.6/29.4	17
6 30	21 8.83	−26 1.5	1.802	2.702	12.3	20.4
7 10	21 2.84	−26 43.9	1.740	2.700	8.9	20.2
7 20	20 54.72	−27 25.5	1.702	2.697	5.4	20.0
7 30	20 45.31	−28 0.4	1.689	2.695	3.6	19.8
8 9	20 35.70	−28 23.9	1.703	2.693	5.8	20.0
8 19	20 27.01	−28 33.2	1.743	2.691	9.4	20.2
8 29	20 20.24	−28 27.8	1.806	2.689	12.8	20.4
9 8	20 16.03	−28 9.5	1.889	2.687	15.7	20.6
137707 1999 XJ_{83}			7 31.6	271°.20	1°.5/30.7	18
6 30	21 8.92	−19 19.4	1.597	2.495	13.7	19.6
7 10	21 3.29	−20 3.0	1.515	2.475	9.9	19.3
7 20	20 55.20	−20 54.3	1.456	2.456	5.5	19.0
7 30	20 45.41	−21 47.6	1.422	2.436	1.6	18.7
8 9	20 35.07	−22 36.4	1.414	2.415	4.9	18.9
8 19	20 25.47	−23 15.5	1.432	2.394	9.7	19.1
8 29	20 17.85	−23 41.7	1.473	2.373	14.0	19.3
9 8	20 13.07	−23 54.3	1.534	2.352	17.8	19.5
163381 2002 PV_{101}			7 31.6	288°.91	4°.5/ 3.6	18
6 30	21 4.22	− 4 26.7	1.856	2.713	14.0	19.6
7 10	20 59.53	− 4 34.8	1.768	2.695	11.0	19.4
7 20	20 52.95	− 5 0.4	1.702	2.677	7.7	19.1
7 30	20 45.09	− 5 42.6	1.660	2.659	4.9	18.9
8 9	20 36.83	− 6 38.4	1.644	2.641	5.1	18.9
8 19	20 29.12	− 7 42.9	1.655	2.623	8.1	19.1
8 29	20 22.90	− 8 50.8	1.690	2.605	11.7	19.2
9 8	20 18.88	− 9 56.4	1.748	2.588	15.0	19.4
136843 1997 YX_{5}			7 31.6	235°.15	1°.0/ 1.2	18
6 30	21 6.82	−14 25.4	2.401	3.274	10.6	20.2
7 10	21 0.97	−14 29.8	2.317	3.263	7.8	20.0
7 20	20 53.55	−14 40.5	2.258	3.252	4.5	19.8
7 30	20 45.16	−14 55.4	2.226	3.240	1.3	19.6
8 9	20 36.53	−15 11.9	2.224	3.228	3.0	19.7
8 19	20 28.45	−15 27.9	2.249	3.215	6.4	19.9
8 29	20 21.65	−15 41.1	2.301	3.202	9.6	20.1
9 8	20 16.68	−15 50.3	2.376	3.189	12.4	20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
418274 2008 EB_{82}			7 31.6	85°.61	4°.2/29.7	17
	h m	° ′			°	m
6 30	21 13.96	−27 11.0	1.494	2.394	14.3	20.6
7 10	21 6.56	−27 42.3	1.451	2.410	10.4	20.4
7 20	20 56.73	−28 9.9	1.431	2.426	6.3	20.2
7 30	20 45.58	−28 27.4	1.436	2.442	4.2	20.1
8 9	20 34.53	−28 30.3	1.467	2.458	6.5	20.3
8 19	20 24.90	−28 17.5	1.523	2.473	10.3	20.5
8 29	20 17.75	−27 50.5	1.602	2.489	13.9	20.8
9 8	20 13.63	−27 12.3	1.700	2.504	16.9	21.0
416704 2005 AK_{64}			7 31.6	170°.55	0°.7/31.9	17
6 30	21 10.53	−15 6.7	1.553	2.442	14.6	22.0
7 10	21 4.17	−15 22.1	1.490	2.444	10.5	21.8
7 20	20 55.51	−15 46.7	1.449	2.446	6.0	21.5
7 30	20 45.44	−16 16.8	1.433	2.447	1.2	21.2
8 9	20 35.15	−16 47.5	1.443	2.448	4.1	21.4
8 19	20 25.87	−17 14.9	1.480	2.449	8.8	21.7
8 29	20 18.66	−17 36.0	1.540	2.449	13.0	21.9
9 8	20 14.21	−17 49.1	1.621	2.449	16.5	22.2
72437 2001 CV_{44}			7 31.6	248°.32	4°.8/27.8	18
6 30	21 7.53	−27 23.2	1.856	2.757	12.0	19.1
7 10	21 2.04	−28 54.7	1.793	2.751	8.8	18.9
7 20	20 54.38	−30 26.6	1.754	2.746	5.9	18.7
7 30	20 45.29	−31 50.8	1.742	2.740	4.9	18.6
8 9	20 35.85	−33 0.0	1.757	2.734	7.1	18.7
8 19	20 27.18	−33 49.8	1.798	2.728	10.3	18.9
8 29	20 20.35	−34 18.8	1.861	2.723	13.5	19.1
9 8	20 16.07	−34 28.4	1.944	2.716	16.2	19.3
34035 2000 OV_{27}			7 31.6	338°.72	4°.1/ 3.7	18
6 30	21 1.95	− 3 47.6	1.366	2.241	17.0	16.8
7 10	20 58.35	− 4 45.7	1.293	2.232	13.2	16.6
7 20	20 52.46	− 6 11.5	1.240	2.224	8.8	16.3
7 30	20 45.05	− 8 1.5	1.211	2.216	4.9	16.1
8 9	20 37.21	−10 7.4	1.206	2.210	5.1	16.1
8 19	20 30.17	−12 18.5	1.227	2.204	9.2	16.3
8 29	20 25.06	−14 24.1	1.271	2.199	13.7	16.5
9 8	20 22.70	−16 15.6	1.336	2.194	17.7	16.8
166636 2002 SZ_{38}			7 31.6	305°.01	3°.0/29.7	18
6 30	21 7.00	−24 0.5	1.784	2.686	12.3	20.0
7 10	21 1.61	−24 45.1	1.716	2.678	8.9	19.8
7 20	20 54.11	−25 31.4	1.672	2.670	5.2	19.6
7 30	20 45.27	−26 13.7	1.653	2.662	3.0	19.4
8 9	20 36.16	−26 46.6	1.660	2.654	5.4	19.6
8 19	20 27.87	−27 6.8	1.693	2.647	9.2	19.8
8 29	20 21.41	−27 12.9	1.750	2.640	12.8	20.0
9 8	20 17.47	−27 5.6	1.827	2.633	15.8	20.2
478760 2012 UD_{107}			7 31.6	38°.32	9°.7/27.1	16
6 30	21 14.37	−40 25.1	1.477	2.368	15.1	20.3
7 10	21 7.20	−41 21.9	1.444	2.380	12.3	20.1
7 20	20 57.19	−42 1.8	1.431	2.392	10.2	20.0
7 30	20 45.66	−42 16.2	1.442	2.405	9.8	20.0
8 9	20 34.32	−42 1.1	1.475	2.419	11.2	20.2
8 19	20 24.70	−41 17.8	1.531	2.433	13.6	20.3
8 29	20 17.98	−40 11.3	1.607	2.448	16.2	20.5
9 8	20 14.66	−38 48.4	1.701	2.463	18.5	20.8
254414 2004 UR_{4}			7 31.6	225°.37	8°.5/ 7.1	18
6 30	21 5.30	+11 36.8	2.830	3.566	12.7	20.0
7 10	20 59.73	+12 34.0	2.745	3.558	11.2	19.8
7 20	20 52.84	+13 14.1	2.681	3.550	9.8	19.7
7 30	20 45.09	+13 34.8	2.641	3.542	8.8	19.7
8 9	20 37.10	+13 35.7	2.626	3.534	8.5	19.6
8 19	20 29.50	+13 17.8	2.636	3.525	9.1	19.7
8 29	20 22.93	+12 44.0	2.671	3.517	10.3	19.7
9 8	20 17.88	+11 58.6	2.727	3.507	11.8	19.8
33108 1997 YJ_{18}			7 31.6	314°.73	0°.7/31.1	18
6 30	21 6.30	−18 46.3	1.915	2.808	12.0	18.4
7 10	21 0.89	−19 9.9	1.847	2.805	8.6	18.2
7 20	20 53.61	−19 38.6	1.802	2.801	4.7	17.9
7 30	20 45.20	−20 8.4	1.783	2.798	0.9	17.6
8 9	20 36.58	−20 35.4	1.792	2.795	3.8	17.9
8 19	20 28.72	−20 56.3	1.827	2.792	7.8	18.1
8 29	20 22.49	−21 9.1	1.887	2.789	11.4	18.3
9 8	20 18.51	−21 13.2	1.968	2.786	14.4	18.5
51627 2001 HK_{38}			7 31.6	348°.75	6°.3/ 4.0	18
6 30	21 2.69	− 3 19.8	1.446	2.315	16.6	17.8
7 10	20 58.70	− 2 55.4	1.377	2.307	13.2	17.6
7 20	20 52.58	− 2 51.3	1.327	2.300	9.6	17.4
7 30	20 45.07	− 3 8.2	1.300	2.295	6.8	17.2
8 9	20 37.25	− 3 43.6	1.297	2.290	6.8	17.2
8 19	20 30.24	− 4 32.8	1.317	2.286	9.6	17.3
8 29	20 25.10	− 5 29.4	1.359	2.283	13.3	17.5
9 8	20 22.53	− 6 26.9	1.422	2.281	16.8	17.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
314315 2005 SJ_{190}			7 31.6 245°.71		2°.3/ 2.5 18	
	h m	° ′			°	m
6 30	21 4.10	− 8 48.5	2.582	3.440	10.5	21.5
7 10	20 58.99	− 9 3.8	2.492	3.426	7.9	21.3
7 20	20 52.48	− 9 29.2	2.427	3.411	5.1	21.1
7 30	20 45.07	−10 3.2	2.389	3.396	2.6	20.9
8 9	20 37.40	−10 43.0	2.379	3.381	3.2	20.9
8 19	20 30.16	−11 25.8	2.398	3.365	6.0	21.1
8 29	20 24.02	−12 8.4	2.444	3.349	9.0	21.3
9 8	20 19.49	−12 47.9	2.513	3.332	11.6	21.4
478397 2012 BX_{86}			7 31.6 189°.05		5°.0/26.5 18	
6 30	21 6.96	−34 22.4	2.848	3.730	8.9	21.7
7 10	21 1.06	−35 31.6	2.789	3.729	6.9	21.6
7 20	20 53.62	−36 35.5	2.757	3.728	5.3	21.5
7 30	20 45.22	−37 29.3	2.752	3.726	5.1	21.5
8 9	20 36.62	−38 9.1	2.775	3.724	6.3	21.6
8 19	20 28.59	−38 33.1	2.824	3.722	8.3	21.7
8 29	20 21.86	−38 41.1	2.898	3.719	10.3	21.8
9 8	20 16.97	−38 34.7	2.993	3.716	12.1	22.0
142381 2002 SE_{5}			7 31.6 269°.04		1°.5/ 1.6 18	
6 30	21 5.26	−11 52.2	2.017	2.894	12.2	20.2
7 10	21 0.16	−12 16.8	1.933	2.879	9.0	19.9
7 20	20 53.26	−12 52.4	1.872	2.865	5.4	19.7
7 30	20 45.19	−13 36.4	1.838	2.850	1.9	19.4
8 9	20 36.78	−14 24.7	1.831	2.835	3.4	19.5
8 19	20 28.94	−15 13.1	1.851	2.821	7.3	19.7
8 29	20 22.54	−15 57.7	1.897	2.806	11.0	19.9
9 8	20 18.22	−16 35.6	1.964	2.790	14.2	20.1
165970 2001 XH_{232}			7 31.6 169°.91		2°.3/30.4 17	
6 30	21 11.08	−21 4.9	1.415	2.317	14.9	20.3
7 10	21 4.84	−21 49.9	1.356	2.319	10.6	20.1
7 20	20 56.01	−22 39.9	1.320	2.320	5.9	19.8
7 30	20 45.57	−23 27.9	1.308	2.321	2.3	19.6
8 9	20 34.89	−24 7.2	1.322	2.322	5.5	19.8
8 19	20 25.35	−24 33.4	1.361	2.322	10.2	20.1
8 29	20 18.17	−24 45.0	1.422	2.322	14.5	20.3
9 8	20 14.07	−24 42.6	1.502	2.322	18.0	20.5
469670 2004 VJ_{12}			7 31.6 297°.64		1°.1/ 1.2 18	
6 30	21 5.92	−13 22.0	1.608	2.498	14.1	21.1
7 10	21 1.12	−13 47.0	1.519	2.473	10.4	20.8
7 20	20 54.03	−14 24.8	1.452	2.449	6.0	20.5
7 30	20 45.32	−15 11.9	1.410	2.424	1.6	20.2
8 9	20 36.05	−16 3.4	1.394	2.399	4.1	20.3
8 19	20 27.40	−16 53.8	1.403	2.375	8.9	20.5
8 29	20 20.54	−17 38.4	1.436	2.351	13.4	20.7
9 8	20 16.32	−18 13.8	1.489	2.327	17.3	20.9
468621 2008 FB_{45}			7 31.6 27°.86		2°.8/ 2.1 16	
6 30	21 4.05	− 9 51.6	1.080	1.985	18.2	20.6
7 10	20 59.98	−10 19.0	1.038	1.997	13.5	20.4
7 20	20 53.33	−11 6.4	1.015	2.010	8.2	20.1
7 30	20 45.19	−12 8.9	1.013	2.025	3.3	19.9
8 9	20 36.98	−13 18.5	1.034	2.040	4.9	20.0
8 19	20 30.07	−14 26.9	1.078	2.057	9.9	20.4
8 29	20 25.61	−15 27.4	1.143	2.074	14.5	20.7
9 8	20 24.22	−16 15.4	1.226	2.093	18.5	21.0
45778 2000 OG_{5}			7 31.6 328°.74		1°.7/ 1.3 18	
6 30	21 8.26	−14 33.7	1.436	2.331	15.1	18.1
7 10	21 2.77	−14 16.3	1.366	2.322	11.1	17.8
7 20	20 54.86	−14 7.7	1.318	2.314	6.5	17.5
7 30	20 45.42	−14 5.8	1.294	2.307	2.1	17.2
8 9	20 35.67	−14 7.8	1.294	2.300	4.4	17.4
8 19	20 26.89	−14 10.8	1.320	2.293	9.2	17.6
8 29	20 20.23	−14 12.2	1.368	2.287	13.6	17.9
9 8	20 16.43	−14 10.1	1.436	2.281	17.4	18.1
500909 2013 NZ_{20}			7 31.6 56°.54		1°.7/30.6 17	
6 30	21 8.41	−18 33.5	1.243	2.152	16.0	21.0
7 10	21 3.01	−19 33.8	1.197	2.162	11.3	20.8
7 20	20 55.01	−20 42.8	1.171	2.173	6.2	20.5
7 30	20 45.43	−21 52.4	1.170	2.184	1.8	20.3
8 9	20 35.74	−22 54.3	1.193	2.195	5.4	20.5
8 19	20 27.33	−23 42.4	1.240	2.206	10.4	20.8
8 29	20 21.39	−24 14.0	1.308	2.218	14.8	21.1
9 8	20 18.58	−24 29.1	1.396	2.229	18.4	21.4
158949 2004 RL_{127}			7 31.6 103°.98		2°.4/ 2.2 17	
6 30	21 7.59	− 9 40.4	1.783	2.655	13.8	20.9
7 10	21 1.74	−10 0.8	1.727	2.669	10.2	20.7
7 20	20 54.05	−10 34.2	1.694	2.683	6.3	20.5
7 30	20 45.30	−11 17.5	1.687	2.697	2.8	20.3
8 9	20 36.45	−12 6.5	1.707	2.710	3.8	20.4
8 19	20 28.48	−12 56.3	1.753	2.723	7.6	20.6
8 29	20 22.24	−13 42.8	1.825	2.736	11.2	20.9
9 8	20 18.28	−14 23.0	1.918	2.748	14.3	21.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
132550 2002 JX_{75}			7 31.6 133°.31		4°.3/ 3.3 18	
	h m	° ′			°	m
6 30	21 6.41	− 5 41.5	1.809	2.668	14.2	19.7
7 10	21 0.97	− 5 36.3	1.741	2.671	11.0	19.5
7 20	20 53.68	− 5 46.5	1.696	2.673	7.5	19.3
7 30	20 45.26	− 6 11.3	1.675	2.675	4.7	19.2
8 9	20 36.63	− 6 47.5	1.680	2.677	5.0	19.2
8 19	20 28.77	− 7 31.1	1.712	2.679	8.0	19.4
8 29	20 22.53	− 8 17.5	1.768	2.681	11.4	19.6
9 8	20 18.54	− 9 2.3	1.846	2.683	14.5	19.8
86898 2000 HE_{40}			7 31.6 347°.76		2°.3/30.4 18	
6 30	21 2.74	−20 1.2	1.093	2.017	16.4	18.3
7 10	20 59.42	−20 49.3	1.034	2.007	11.7	18.0
7 20	20 53.25	−21 46.6	0.994	1.997	6.5	17.7
7 30	20 45.22	−22 45.3	0.976	1.989	2.3	17.4
8 9	20 36.79	−23 36.8	0.980	1.983	6.1	17.6
8 19	20 29.52	−24 14.3	1.006	1.978	11.5	17.9
8 29	20 24.80	−24 34.3	1.052	1.974	16.4	18.2
9 8	20 23.46	−24 36.5	1.115	1.972	20.6	18.4
255352 2005 WW_{83}			7 31.6 206°.58		1°.5/30.5 18	
6 30	21 5.60	−21 18.3	2.313	3.204	10.3	20.8
7 10	21 0.16	−21 50.5	2.246	3.203	7.3	20.6
7 20	20 53.14	−22 25.3	2.203	3.201	4.1	20.4
7 30	20 45.18	−22 58.7	2.187	3.200	1.5	20.2
8 9	20 37.06	−23 27.3	2.200	3.199	3.8	20.4
8 19	20 29.57	−23 48.4	2.240	3.197	7.0	20.6
8 29	20 23.47	−24 0.6	2.306	3.196	10.1	20.8
9 8	20 19.28	−24 3.6	2.394	3.194	12.7	21.0
377605 2005 QV_{180}			7 31.6 333°.07		12°.5/24.9 16	
6 30	21 13.24	−42 57.8	1.269	2.164	16.8	19.7
7 10	21 7.36	−44 24.2	1.219	2.152	14.3	19.5
7 20	20 57.79	−45 32.0	1.189	2.141	12.8	19.4
7 30	20 45.85	−46 8.4	1.179	2.131	12.8	19.4
8 9	20 33.58	−46 5.9	1.190	2.121	14.5	19.4
8 19	20 23.08	−45 23.8	1.220	2.113	17.1	19.6
8 29	20 16.01	−44 8.0	1.269	2.105	19.9	19.7
9 8	20 13.13	−42 27.6	1.332	2.098	22.6	19.9
3449 Abell			7 31.6 268°.77		0°.7/31.1 18	
6 30	21 5.10	−18 37.8	2.322	3.209	10.4	17.8
7 10	20 59.88	−19 7.5	2.240	3.195	7.5	17.6
7 20	20 53.04	−19 42.0	2.182	3.181	4.1	17.4
7 30	20 45.17	−20 17.9	2.152	3.167	0.8	17.1
8 9	20 37.04	−20 51.6	2.151	3.153	3.4	17.3
8 19	20 29.45	−21 20.0	2.176	3.138	6.9	17.5
8 29	20 23.16	−21 40.9	2.228	3.124	10.1	17.7
9 8	20 18.77	−21 53.5	2.302	3.109	12.9	17.8
117106 2004 OT_{6}			7 31.6 358°.36		0°.2/31.8 18	
6 30	21 1.38	−15 58.0	2.806	3.687	9.0	19.8
7 10	20 56.92	−16 22.2	2.735	3.686	6.5	19.6
7 20	20 51.28	−16 51.5	2.689	3.686	3.6	19.4
7 30	20 44.92	−17 23.5	2.671	3.685	0.6	19.2
8 9	20 38.44	−17 55.5	2.681	3.685	2.5	19.3
8 19	20 32.42	−18 25.1	2.720	3.685	5.5	19.6
8 29	20 27.44	−18 50.2	2.785	3.686	8.2	19.7
9 8	20 23.91	−19 9.6	2.873	3.686	10.5	19.9
389944 2012 TV_{157}			7 31.6 211°.26		4°.9/ 4.4 18	
6 30	21 5.37	− 1 15.3	2.254	3.084	12.8	21.4
7 10	21 0.01	− 1 19.5	2.172	3.078	10.2	21.2
7 20	20 53.10	− 1 40.1	2.112	3.072	7.5	21.0
7 30	20 45.19	− 2 16.4	2.078	3.065	5.3	20.9
8 9	20 37.03	− 3 6.0	2.071	3.058	5.2	20.8
8 19	20 29.40	− 4 5.2	2.092	3.051	7.3	21.0
8 29	20 23.04	− 5 9.3	2.138	3.043	10.1	21.1
9 8	20 18.51	− 6 13.5	2.208	3.035	12.8	21.3
134019 Nathanmogk			7 31.6 179°.76		3°.7/29.7 18	
6 30	21 10.96	−23 49.1	1.380	2.286	14.9	19.8
7 10	21 4.87	−24 45.5	1.323	2.287	10.7	19.6
7 20	20 56.09	−25 44.3	1.288	2.287	6.3	19.3
7 30	20 45.62	−26 37.5	1.278	2.287	3.7	19.2
8 9	20 34.89	−27 17.8	1.292	2.287	6.6	19.4
8 19	20 25.35	−27 40.8	1.331	2.287	11.0	19.6
8 29	20 18.26	−27 45.9	1.392	2.287	15.1	19.9
9 8	20 14.36	−27 34.7	1.471	2.286	18.6	20.1
249655 1999 TW_{317}			7 31.6 266°.64		3°.4/29.4 18	
6 30	21 7.92	−27 28.0	2.237	3.129	10.6	20.4
7 10	21 1.92	−27 57.1	2.168	3.123	7.7	20.2
7 20	20 54.16	−28 24.0	2.124	3.117	4.8	20.0
7 30	20 45.34	−28 44.3	2.107	3.111	3.4	19.9
8 9	20 36.35	−28 54.4	2.117	3.105	5.1	20.0
8 19	20 28.10	−28 52.7	2.155	3.098	8.1	20.2
8 29	20 21.40	−28 38.9	2.217	3.092	11.0	20.4
9 8	20 16.85	−28 14.4	2.300	3.086	13.6	20.5

398999 2013 FS_1 7 31.6 303°.27 3°.0/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 4.81	−23 9.1	1.983	2.883	11.4	20.3
7 10	20 59.96	−24 21.2	1.912	2.873	8.1	20.1
7 20	20 53.21	−25 37.2	1.865	2.863	4.8	19.8
7 30	20 45.22	−26 50.6	1.845	2.853	3.0	19.7
8 9	20 36.91	−27 55.4	1.853	2.844	5.3	19.8
8 19	20 29.24	−28 47.0	1.887	2.835	8.8	20.0
8 29	20 23.15	−29 22.9	1.945	2.826	12.1	20.2
9 8	20 19.29	−29 43.1	2.023	2.817	14.9	20.4

97915 2000 QX_{90} 7 31.6 225°.19 1°.9/ 1.5 18

6 30	21 10.88	−12 59.8	1.571	2.453	14.8	19.7
7 10	21 4.53	−12 58.1	1.498	2.447	10.9	19.4
7 20	20 55.82	−13 6.9	1.447	2.440	6.5	19.1
7 30	20 45.59	−13 23.7	1.421	2.433	2.3	18.9
8 9	20 35.03	−13 45.0	1.421	2.426	4.2	19.0
8 19	20 25.36	−14 6.9	1.447	2.418	8.8	19.2
8 29	20 17.71	−14 26.2	1.498	2.409	13.1	19.5
9 8	20 12.83	−14 40.5	1.568	2.400	16.8	19.7

470709 2008 TU_{164} 7 31.6 36°.68 4°.2/ 2.5 17

6 30	21 8.17	− 9 2.8	1.417	2.299	16.1	20.2
7 10	21 2.48	− 8 30.9	1.365	2.309	12.2	20.0
7 20	20 54.58	− 8 13.5	1.333	2.319	8.0	19.8
7 30	20 45.40	− 8 9.8	1.325	2.330	4.6	19.6
8 9	20 36.15	− 8 17.4	1.341	2.341	5.3	19.7
8 19	20 28.00	− 8 32.7	1.382	2.353	9.1	20.0
8 29	20 21.95	− 8 51.9	1.446	2.366	13.0	20.2
9 8	20 18.61	− 9 10.8	1.530	2.378	16.4	20.5

267664 2002 TK_{186} 7 31.6 269°.80 0°.6/31.3 17

6 30	21 10.15	−18 8.8	1.682	2.574	13.5	21.2
7 10	21 4.12	−18 30.1	1.595	2.552	9.8	20.9
7 20	20 55.69	−18 58.3	1.530	2.529	5.4	20.6
7 30	20 45.60	−19 29.0	1.491	2.505	0.9	20.2
8 9	20 34.96	−19 57.5	1.478	2.482	4.3	20.4
8 19	20 25.02	−20 19.8	1.492	2.458	9.1	20.6
8 29	20 16.96	−20 33.1	1.530	2.433	13.4	20.8
9 8	20 11.63	−20 36.7	1.588	2.408	17.2	21.0

309078 2006 VC_{46} 7 31.6 270°.20 5°.3/ 4.0 18

6 30	21 5.12	− 2 34.5	2.108	2.948	13.2	21.0
7 10	20 59.90	− 2 11.9	2.032	2.944	10.5	20.9
7 20	20 53.06	− 2 4.2	1.977	2.940	7.7	20.7
7 30	20 45.21	− 2 11.5	1.948	2.936	5.6	20.5
8 9	20 37.13	− 2 32.3	1.946	2.932	5.6	20.5
8 19	20 29.65	− 3 3.9	1.969	2.928	7.7	20.7
8 29	20 23.54	− 3 42.4	2.018	2.924	10.6	20.8
9 8	20 19.36	− 4 23.4	2.090	2.920	13.3	21.0

472284 2014 WP_{49} 7 31.6 162°.56 0°.2/31.5 17

6 30	21 10.31	−16 23.4	1.717	2.604	13.5	22.2
7 10	21 3.89	−17 1.5	1.655	2.610	9.7	22.0
7 20	20 55.36	−17 47.8	1.616	2.614	5.3	21.8
7 30	20 45.53	−18 37.4	1.603	2.618	0.7	21.4
8 9	20 35.50	−19 24.8	1.618	2.622	4.0	21.7
8 19	20 26.39	−20 5.6	1.659	2.625	8.4	22.0
8 29	20 19.18	−20 37.0	1.725	2.627	12.3	22.2
9 8	20 14.52	−20 57.6	1.812	2.628	15.6	22.4

23518 1992 SP_1 7 31.6 334°.22 6°.9/28.7 18

6 30	21 13.59	−36 40.4	1.789	2.677	13.0	17.9
7 10	21 6.44	−36 52.2	1.721	2.663	10.2	17.7
7 20	20 56.81	−36 51.9	1.674	2.650	7.8	17.5
7 30	20 45.73	−36 33.5	1.653	2.637	6.9	17.4
8 9	20 34.53	−35 53.6	1.658	2.625	8.3	17.5
8 19	20 24.56	−34 52.8	1.687	2.613	11.1	17.6
8 29	20 16.91	−33 34.4	1.740	2.603	14.2	17.8
9 8	20 12.23	−32 3.9	1.813	2.593	16.9	18.0

40584 1999 RJ_{140} 7 31.6 223°.93 4°.6/ 4.1 18

6 30	21 5.56	− 2 26.8	2.154	2.992	13.0	19.5
7 10	21 0.25	− 2 36.8	2.070	2.983	10.3	19.3
7 20	20 53.28	− 3 3.3	2.008	2.975	7.4	19.1
7 30	20 45.25	− 3 45.6	1.973	2.965	5.0	19.0
8 9	20 36.93	− 4 40.8	1.964	2.956	5.0	18.9
8 19	20 29.14	− 5 44.6	1.983	2.945	7.4	19.1
8 29	20 22.68	− 6 52.3	2.027	2.935	10.4	19.2
9 8	20 18.14	− 7 58.8	2.095	2.924	13.3	19.4

306109 2010 JZ_{32} 7 31.6 272°.57 5°.5/ 3.1 17

6 30	21 8.69	− 5 52.3	1.299	2.175	17.7	21.0
7 10	21 3.29	− 5 32.7	1.230	2.168	13.8	20.7
7 20	20 55.28	− 5 33.0	1.180	2.161	9.5	20.5
7 30	20 45.55	− 5 53.0	1.153	2.155	6.0	20.2
8 9	20 35.39	− 6 29.6	1.149	2.148	6.4	20.3
8 19	20 26.19	− 7 17.4	1.170	2.141	10.3	20.5
8 29	20 19.24	− 8 9.9	1.212	2.134	14.7	20.7
9 8	20 15.36	− 9 0.8	1.274	2.128	18.7	20.9

381882 2010 AR_{69} 7 31.6 186°.27 4°.2/28.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 9.61	−27 45.1	2.105	2.997	11.1	21.2
7 10	21 3.28	−28 51.9	2.043	2.997	8.1	21.0
7 20	20 54.99	−29 57.2	2.006	2.996	5.3	20.8
7 30	20 45.49	−30 54.9	1.996	2.995	4.2	20.8
8 9	20 35.74	−31 39.5	2.014	2.993	6.1	20.9
8 19	20 26.77	−32 8.1	2.058	2.991	9.1	21.1
8 29	20 19.50	−32 20.1	2.127	2.989	12.0	21.2
9 8	20 14.56	−32 16.9	2.217	2.985	14.5	21.4

11759 Sunyaev 7 31.6 240°.67 0°.1/31.5 18

6 30	21 8.98	−16 53.2	1.689	2.580	13.5	19.5
7 10	21 3.09	−17 17.3	1.617	2.573	9.7	19.2
7 20	20 55.00	−17 49.1	1.566	2.565	5.4	19.0
7 30	20 45.50	−18 24.4	1.542	2.557	0.7	18.6
8 9	20 35.67	−18 58.5	1.544	2.548	4.0	18.8
8 19	20 26.66	−19 27.3	1.573	2.540	8.6	19.1
8 29	20 19.53	−19 48.0	1.625	2.531	12.7	19.3
9 8	20 14.99	−19 59.4	1.698	2.522	16.1	19.5

141707 2002 LD_7 7 31.6 32°.10 4°.6/ 3.2 18

6 30	21 5.97	− 6 14.3	1.249	2.133	17.7	19.6
7 10	21 1.24	− 6 23.1	1.194	2.138	13.6	19.3
7 20	20 54.06	− 6 53.8	1.157	2.143	9.0	19.1
7 30	20 45.36	− 7 43.9	1.144	2.149	5.1	18.9
8 9	20 36.45	− 8 47.7	1.153	2.155	5.6	18.9
8 19	20 28.64	− 9 57.8	1.187	2.162	9.7	19.2
8 29	20 23.06	−11 6.8	1.243	2.169	14.0	19.5
9 8	20 20.42	−12 8.6	1.318	2.177	17.9	19.7

402425 2006 AO_{26} 7 31.6 215°.90 1°.5/ 1.6 16

6 30	21 6.62	−12 59.4	2.737	3.601	9.8	22.3
7 10	21 0.66	−12 48.8	2.655	3.595	7.2	22.1
7 20	20 53.36	−12 43.7	2.599	3.589	4.3	21.9
7 30	20 45.26	−12 43.1	2.571	3.582	1.7	21.7
8 9	20 37.00	−12 45.2	2.572	3.575	2.8	21.8
8 19	20 29.24	−12 48.6	2.602	3.567	5.7	22.0
8 29	20 22.62	−12 51.6	2.660	3.560	8.5	22.2
9 8	20 17.60	−12 53.0	2.741	3.552	11.0	22.3

90314 2003 FL_{36} 7 31.6 9°.96 6°.6/28.2 18

6 30	21 9.50	−33 59.5	1.657	2.557	13.2	18.5
7 10	21 3.52	−34 38.4	1.608	2.559	10.1	18.3
7 20	20 55.19	−35 8.3	1.580	2.562	7.5	18.2
7 30	20 45.51	−35 22.5	1.577	2.565	6.6	18.1
8 9	20 35.80	−35 17.0	1.599	2.570	8.3	18.2
8 19	20 27.31	−34 50.9	1.645	2.575	11.2	18.4
8 29	20 21.06	−34 6.6	1.713	2.580	14.1	18.6
9 8	20 17.67	−33 8.2	1.800	2.586	16.8	18.8

8949 1997 CM_{28} 7 31.6 348°.10 1°.2/ 1.3 18

6 30	21 5.27	−13 28.6	1.514	2.409	14.5	17.7
7 10	21 0.54	−13 51.3	1.449	2.405	10.6	17.5
7 20	20 53.62	−14 26.0	1.405	2.402	6.1	17.2
7 30	20 45.32	−15 9.0	1.385	2.399	1.6	16.9
8 9	20 36.75	−15 55.0	1.391	2.397	4.0	17.1
8 19	20 29.07	−16 38.9	1.422	2.395	8.6	17.4
8 29	20 23.30	−17 16.5	1.476	2.394	12.9	17.6
9 8	20 20.16	−17 45.0	1.551	2.393	16.5	17.8

264210 2010 PF_{22} 7 31.6 196°.63 7°.0/ 8.8 18

6 30	21 2.54	+13 2.0	3.455	4.172	10.9	21.8
7 10	20 57.60	+13 18.0	3.368	4.168	9.6	21.7
7 20	20 51.63	+13 17.8	3.302	4.164	8.3	21.6
7 30	20 45.03	+13 0.6	3.260	4.159	7.3	21.5
8 9	20 38.28	+12 26.9	3.244	4.154	7.0	21.5
8 19	20 31.86	+11 38.4	3.253	4.148	7.4	21.5
8 29	20 26.27	+10 38.1	3.289	4.142	8.4	21.6
9 8	20 21.88	+ 9 30.0	3.349	4.135	9.7	21.6

469440 2002 GK_{81} 7 31.6 65°.95 6°.5/27.9 17

6 30	21 11.12	−32 3.6	1.597	2.498	13.6	20.6
7 10	21 4.65	−33 13.2	1.561	2.514	10.2	20.4
7 20	20 55.79	−34 15.3	1.547	2.531	7.4	20.3
7 30	20 45.60	−35 1.8	1.559	2.548	6.5	20.3
8 9	20 35.44	−35 27.3	1.595	2.565	8.4	20.4
8 19	20 26.58	−35 30.4	1.656	2.582	11.3	20.7
8 29	20 20.06	−35 12.8	1.738	2.599	14.3	20.9
9 8	20 16.46	−34 38.7	1.839	2.616	16.8	21.1

219137 1998 WO_8 7 31.6 298°.90 2°.0/30.5 18

6 30	21 7.59	−20 14.9	1.440	2.346	14.4	20.4
7 10	21 2.64	−20 59.3	1.358	2.322	10.4	20.1
7 20	20 55.03	−21 51.6	1.298	2.299	5.8	19.7
7 30	20 45.56	−22 45.4	1.263	2.276	2.1	19.4
8 9	20 35.47	−23 33.6	1.252	2.253	5.5	19.6
8 19	20 26.15	−24 10.4	1.266	2.230	10.5	19.8
8 29	20 18.96	−24 32.4	1.301	2.207	15.1	20.0
9 8	20 14.85	−24 39.2	1.356	2.185	19.1	20.2

342450 2008 UF_{110} 7 31.6 96°.88 0°.7/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 8.99	−15 17.5	1.837	2.720	12.9	21.2
7 10	21 2.72	−15 25.9	1.782	2.734	9.3	21.0
7 20	20 54.61	−15 41.4	1.751	2.747	5.2	20.7
7 30	20 45.46	−16 1.1	1.745	2.760	1.1	20.5
8 9	20 36.26	−16 21.4	1.768	2.772	3.5	20.7
8 19	20 27.98	−16 39.3	1.817	2.785	7.5	21.0
8 29	20 21.46	−16 52.8	1.891	2.797	11.1	21.2
9 8	20 17.25	−17 0.4	1.987	2.810	14.1	21.4

501674 2014 TU_{28} 7 31.6 315°.40 4°.0/29.6 17

6 30	21 6.63	−22 33.8	1.056	1.980	16.9	21.1
7 10	21 2.62	−23 36.6	0.987	1.960	12.3	20.8
7 20	20 55.30	−24 47.8	0.938	1.940	7.2	20.4
7 30	20 45.62	−25 57.7	0.910	1.921	4.0	20.2
8 9	20 35.19	−26 55.3	0.905	1.903	7.7	20.3
8 19	20 25.88	−27 33.1	0.920	1.886	13.3	20.6
8 29	20 19.42	−27 47.6	0.955	1.869	18.5	20.8
9 8	20 16.85	−27 40.1	1.005	1.854	23.0	21.0

218848 2006 UQ_{327} 7 31.6 342°.14 3°.4/30.1 18

6 30	21 1.39	−22 3.7	0.969	1.902	17.1	18.9
7 10	20 58.83	−22 46.0	0.906	1.883	12.4	18.6
7 20	20 53.15	−23 35.5	0.862	1.866	7.1	18.3
7 30	20 45.31	−24 23.9	0.838	1.850	3.4	18.0
8 9	20 36.92	−25 2.2	0.835	1.837	7.1	18.2
8 19	20 29.74	−25 23.5	0.852	1.825	12.8	18.4
8 29	20 25.37	−25 25.1	0.887	1.816	18.0	18.7
9 8	20 24.73	−25 7.4	0.938	1.808	22.5	18.9

242159 2003 FK_{28} 7 31.6 7°.54 3°.3/28.9 18

6 30	21 1.81	−25 5.4	2.086	2.990	10.7	18.1
7 10	20 57.66	−26 6.7	2.031	2.992	7.7	18.0
7 20	20 51.87	−27 8.6	2.000	2.996	4.7	17.8
7 30	20 45.09	−28 5.8	1.995	3.000	3.3	17.7
8 9	20 38.15	−28 53.4	2.017	3.006	5.2	17.8
8 19	20 31.92	−29 28.1	2.065	3.012	8.2	18.0
8 29	20 27.15	−29 48.5	2.137	3.018	11.2	18.2
9 8	20 24.39	−29 55.1	2.230	3.026	13.7	18.4

281355 2007 VB_{147} 7 31.6 335°.94 3°.4/ 2.7 18

6 30	21 4.97	− 8 4.3	1.790	2.661	13.8	20.1
7 10	21 0.04	− 8 4.2	1.719	2.657	10.5	19.9
7 20	20 53.25	− 8 18.0	1.669	2.654	6.9	19.6
7 30	20 45.29	− 8 44.2	1.645	2.651	3.8	19.5
8 9	20 37.10	− 9 19.7	1.647	2.648	4.4	19.5
8 19	20 29.62	−10 0.4	1.675	2.645	7.8	19.7
8 29	20 23.75	−10 42.0	1.727	2.643	11.4	19.9
9 8	20 20.11	−11 20.6	1.801	2.641	14.7	20.1

275465 2011 DH_{4} 7 31.6 228°.36 3°.2/ 2.8 18

6 30	21 7.29	− 6 56.9	1.938	2.797	13.4	21.1
7 10	21 1.69	− 7 21.4	1.854	2.786	10.2	20.9
7 20	20 54.19	− 8 1.5	1.793	2.775	6.7	20.7
7 30	20 45.44	− 8 55.0	1.758	2.764	3.6	20.5
8 9	20 36.31	− 9 57.9	1.750	2.751	4.2	20.5
8 19	20 27.78	−11 5.1	1.770	2.738	7.6	20.7
8 29	20 20.75	−12 11.4	1.815	2.725	11.3	20.9
9 8	20 15.93	−13 12.4	1.883	2.711	14.6	21.1

283850 2003 UL_{181} 7 31.6 332°.00 3°.2/ 2.2 17

6 30	21 1.82	−10 18.0	1.030	1.941	18.4	20.0
7 10	20 58.94	−10 24.9	0.959	1.921	13.9	19.6
7 20	20 53.16	−10 53.0	0.905	1.902	8.7	19.3
7 30	20 45.33	−11 40.1	0.872	1.884	3.8	18.9
8 9	20 36.85	−12 40.1	0.861	1.867	5.4	19.0
8 19	20 29.33	−13 45.0	0.870	1.852	11.1	19.2
8 29	20 24.31	−14 46.5	0.899	1.839	16.6	19.5
9 8	20 22.80	−15 37.8	0.945	1.827	21.4	19.7

311920 2007 BM_{32} 7 31.6 276°.76 1°.0/ 1.2 18

6 30	21 6.99	−14 57.8	2.162	3.041	11.4	21.1
7 10	21 1.28	−14 52.1	2.081	3.030	8.3	20.9
7 20	20 53.87	−14 52.3	2.024	3.018	4.8	20.6
7 30	20 45.39	−14 56.7	1.994	3.007	1.4	20.4
8 9	20 36.67	−15 2.8	1.992	2.996	3.2	20.5
8 19	20 28.58	−15 8.6	2.017	2.985	6.9	20.7
8 29	20 21.90	−15 12.2	2.068	2.974	10.3	20.9
9 8	20 17.24	−15 12.2	2.142	2.963	13.3	21.1

37951 1998 HE_{42} 7 31.6 166°.84 0°.9/ 1.3 18 R

6 30	21 7.49	−13 19.2	2.182	3.056	11.6	19.7
7 10	21 1.55	−13 50.4	2.114	3.060	8.4	19.5
7 20	20 53.97	−14 30.2	2.070	3.064	4.8	19.3
7 30	20 45.40	−15 15.5	2.054	3.068	1.2	19.1
8 9	20 36.66	−16 2.1	2.066	3.071	3.1	19.2
8 19	20 28.57	−16 46.5	2.106	3.073	6.8	19.5
8 29	20 21.93	−17 25.5	2.173	3.075	10.1	19.7
9 8	20 17.26	−17 57.1	2.262	3.076	12.9	19.9

450941 2008 FD_{97} 7 31.6 35°.48 8°.9/ 7.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 2.79	+ 7 52.1	1.937	2.730	15.9	20.4
7 10	20 58.29	+ 8 20.1	1.878	2.741	13.6	20.2
7 20	20 52.20	+ 8 24.3	1.838	2.753	11.3	20.1
7 30	20 45.15	+ 8 3.3	1.821	2.766	9.5	20.0
8 9	20 37.99	+ 7 18.9	1.827	2.779	8.9	20.0
8 19	20 31.53	+ 6 15.2	1.857	2.792	9.8	20.1
8 29	20 26.52	+ 4 58.2	1.911	2.806	11.6	20.3
9 8	20 23.48	+ 3 35.0	1.987	2.820	13.8	20.4

356746 2011 UT_{216} 7 31.6 153°.16 1°.6/ 1.9 18

6 30	21 5.45	−11 39.7	2.591	3.456	10.2	22.0
7 10	20 59.86	−11 49.2	2.523	3.463	7.5	21.8
7 20	20 52.95	−12 6.2	2.479	3.468	4.5	21.7
7 30	20 45.26	−12 29.0	2.463	3.474	1.8	21.5
8 9	20 37.46	−12 55.1	2.476	3.479	2.9	21.6
8 19	20 30.22	−13 21.9	2.517	3.484	5.8	21.8
8 29	20 24.16	−13 47.1	2.586	3.489	8.6	22.0
9 8	20 19.73	−14 8.8	2.677	3.493	11.1	22.1

62131 2000 SH_{4} 7 31.6 303°.97 6°.0/27.5 18

6 30	21 8.58	−33 20.5	1.979	2.873	11.6	18.6
7 10	21 2.78	−34 16.9	1.914	2.863	8.9	18.4
7 20	20 54.83	−35 7.3	1.873	2.853	6.7	18.2
7 30	20 45.55	−35 45.2	1.857	2.843	6.1	18.2
8 9	20 36.00	−36 5.4	1.868	2.833	7.7	18.3
8 19	20 27.31	−36 6.0	1.903	2.823	10.4	18.4
8 29	20 20.50	−35 47.5	1.961	2.814	13.2	18.6
9 8	20 16.23	−35 12.8	2.039	2.805	15.7	18.7

380772 2005 UZ_{215} 7 31.6 266°.19 3°.5/29.4 18

6 30	21 10.42	−24 52.4	1.869	2.764	12.2	22.1
7 10	21 4.28	−25 47.0	1.782	2.740	8.9	21.8
7 20	20 55.81	−26 43.9	1.719	2.715	5.4	21.6
7 30	20 45.71	−27 36.7	1.682	2.689	3.5	21.4
8 9	20 35.06	−28 19.2	1.673	2.663	5.9	21.5
8 19	20 25.05	−28 47.1	1.690	2.637	9.7	21.7
8 29	20 16.84	−28 58.8	1.731	2.610	13.4	21.9
9 8	20 11.25	−28 55.1	1.792	2.582	16.7	22.0

16973 Gaspari 7 31.6 119°.18 1°.6/ 1.4 18

6 30	21 11.89	−13 35.2	1.440	2.328	15.6	18.0
7 10	21 5.22	−13 37.9	1.385	2.337	11.4	17.8
7 20	20 56.18	−13 51.3	1.352	2.347	6.6	17.5
7 30	20 45.73	−14 12.1	1.343	2.356	2.0	17.2
8 9	20 35.18	−14 36.1	1.360	2.365	4.3	17.4
8 19	20 25.79	−14 59.2	1.402	2.373	9.0	17.7
8 29	20 18.65	−15 18.3	1.468	2.381	13.2	18.0
9 8	20 14.39	−15 31.3	1.554	2.389	16.8	18.2

104835 2000 HQ_{68} 7 31.6 109°.79 1°.1/ 1.3 17

6 30	21 9.17	−13 30.2	1.701	2.584	13.8	20.3
7 10	21 3.00	−13 54.0	1.647	2.597	10.0	20.1
7 20	20 54.85	−14 27.9	1.615	2.610	5.7	19.9
7 30	20 45.54	−15 8.0	1.609	2.623	1.5	19.6
8 9	20 36.15	−15 49.6	1.630	2.635	3.7	19.8
8 19	20 27.72	−16 28.4	1.678	2.648	7.9	20.1
8 29	20 21.16	−17 1.2	1.751	2.659	11.7	20.4
9 8	20 17.05	−17 25.9	1.844	2.671	14.9	20.6

316246 2010 OZ_{40} 7 31.6 178°.94 6°.0/27.4 18

6 30	21 10.99	−37 6.7	2.421	3.299	10.4	20.7
7 10	21 4.10	−37 45.8	2.365	3.300	8.2	20.5
7 20	20 55.38	−38 16.1	2.333	3.300	6.5	20.4
7 30	20 45.62	−38 32.4	2.328	3.300	6.1	20.4
8 9	20 35.79	−38 31.6	2.350	3.300	7.3	20.5
8 19	20 26.85	−38 13.0	2.397	3.300	9.3	20.6
8 29	20 19.63	−37 38.2	2.469	3.300	11.5	20.8
9 8	20 14.68	−36 50.1	2.561	3.299	13.5	20.9

328128 2008 BN_{2} 7 31.6 200°.92 3°.2/30.0 17

6 30	21 13.17	−25 2.2	1.703	2.597	13.2	21.7
7 10	21 6.12	−25 33.5	1.637	2.595	9.5	21.5
7 20	20 56.70	−26 4.4	1.595	2.592	5.6	21.2
7 30	20 45.82	−26 28.9	1.579	2.588	3.2	21.1
8 9	20 34.72	−26 42.3	1.590	2.584	5.6	21.2
8 19	20 24.65	−26 42.0	1.627	2.580	9.6	21.4
8 29	20 16.70	−26 28.2	1.688	2.575	13.3	21.7
9 8	20 11.58	−26 2.8	1.769	2.569	16.5	21.9

113161 2002 RF_{98} 7 31.6 332°.27 4°.2/ 2.8 18

6 30	21 2.15	− 7 55.8	1.132	2.031	18.0	18.8
7 10	20 58.96	− 8 3.1	1.059	2.014	13.8	18.5
7 20	20 53.09	− 8 33.0	1.006	1.997	9.0	18.2
7 30	20 45.34	− 9 23.9	0.973	1.982	4.8	17.9
8 9	20 37.04	−10 30.4	0.962	1.967	5.6	17.9
8 19	20 29.62	−11 44.5	0.974	1.954	10.5	18.2
8 29	20 24.51	−12 57.6	1.006	1.942	15.6	18.4
9 8	20 22.63	−14 2.2	1.056	1.932	20.1	18.7

49148 1998 SB_{49} 7 31.6 296°.17 1°.8/ 1.6 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 6.63	−12 11.2	1.449	2.341	15.2	19.5
7 10	21 1.75	−12 31.1	1.373	2.327	11.3	19.2
7 20	20 54.46	−13 5.3	1.318	2.313	6.7	18.9
7 30	20 45.53	−13 50.5	1.287	2.300	2.2	18.6
8 9	20 36.15	−14 41.4	1.281	2.287	4.3	18.7
8 19	20 27.56	−15 32.2	1.300	2.274	9.2	19.0
8 29	20 20.99	−16 17.8	1.342	2.261	13.8	19.2
9 8	20 17.24	−16 54.5	1.403	2.248	17.8	19.4

33445 1999 FB_{21} 7 31.6 67°.27 0°.0/31.7 18

6 30	21 5.66	−15 55.2	1.968	2.855	12.0	18.7
7 10	21 0.42	−16 26.4	1.902	2.857	8.6	18.5
7 20	20 53.43	−17 5.1	1.860	2.858	4.8	18.2
7 30	20 45.36	−17 47.5	1.845	2.860	0.7	17.9
8 9	20 37.12	−18 29.3	1.857	2.862	3.4	18.2
8 19	20 29.60	−19 6.7	1.896	2.863	7.3	18.4
8 29	20 23.63	−19 37.0	1.960	2.865	10.9	18.6
9 8	20 19.78	−19 58.6	2.046	2.867	13.9	18.8

512518 2016 RO_{31} 7 31.6 214°.44 5°.1/ 4.0 18

6 30	21 6.56	− 2 7.1	2.314	3.144	12.5	21.8
7 10	21 0.87	− 1 44.5	2.232	3.138	10.0	21.6
7 20	20 53.62	− 1 35.7	2.174	3.132	7.4	21.4
7 30	20 45.40	− 1 41.1	2.141	3.126	5.4	21.3
8 9	20 36.95	− 1 59.2	2.135	3.119	5.4	21.3
8 19	20 29.02	− 2 27.7	2.156	3.112	7.4	21.4
8 29	20 22.37	− 3 3.1	2.204	3.104	10.1	21.5
9 8	20 17.53	− 3 41.4	2.274	3.096	12.6	21.7

205069 1999 RF_{101} 7 31.6 290°.53 3°.7/ 2.2 18

6 30	21 9.18	− 9 58.6	1.713	2.585	14.2	19.4
7 10	21 3.26	− 9 22.7	1.629	2.569	10.8	19.2
7 20	20 55.17	− 8 56.9	1.567	2.553	7.1	18.9
7 30	20 45.64	− 8 41.1	1.531	2.537	4.0	18.7
8 9	20 35.70	− 8 34.2	1.521	2.521	4.9	18.7
8 19	20 26.48	− 8 34.3	1.537	2.504	8.6	18.9
8 29	20 19.02	− 8 38.6	1.577	2.488	12.6	19.1
9 8	20 14.08	− 8 44.3	1.637	2.473	16.1	19.3

79717 1998 SE_{109} 7 31.6 328°.78 8°.2/28.7 18

6 30	21 11.05	−33 33.9	1.103	2.020	16.9	18.1
7 10	21 5.94	−34 5.9	1.034	1.996	13.2	17.8
7 20	20 57.19	−34 27.5	0.984	1.973	9.6	17.6
7 30	20 45.95	−34 28.0	0.955	1.951	8.3	17.4
8 9	20 34.12	−33 59.8	0.947	1.930	10.6	17.5
8 19	20 23.75	−33 1.5	0.960	1.910	14.8	17.6
8 29	20 16.61	−31 37.5	0.992	1.892	19.3	17.8
9 8	20 13.64	−29 55.5	1.040	1.876	23.3	18.1

188244 2002 VF_{78} 7 31.6 331°.49 3°.8/29.4 18

6 30	21 5.49	−22 32.9	1.224	2.143	15.5	19.1
7 10	21 1.35	−23 45.3	1.161	2.131	11.1	18.9
7 20	20 54.40	−25 4.5	1.119	2.120	6.5	18.6
7 30	20 45.54	−26 21.4	1.100	2.110	3.9	18.4
8 9	20 36.21	−27 26.3	1.104	2.100	7.1	18.5
8 19	20 27.94	−28 12.4	1.131	2.091	11.9	18.8
8 29	20 22.13	−28 36.7	1.179	2.084	16.4	19.0
9 8	20 19.66	−28 40.1	1.243	2.077	20.3	19.3

391932 2008 UW_{338} 7 31.6 204°.84 2°.5/ 2.4 17

6 30	21 7.24	− 9 8.5	2.336	3.193	11.5	22.3
7 10	21 1.34	− 9 13.4	2.255	3.188	8.6	22.1
7 20	20 53.88	− 9 28.5	2.199	3.183	5.5	21.9
7 30	20 45.44	− 9 52.3	2.170	3.177	2.8	21.7
8 9	20 36.78	−10 22.1	2.169	3.170	3.5	21.7
8 19	20 28.67	−10 55.1	2.196	3.162	6.6	21.9
8 29	20 21.85	−11 28.1	2.250	3.154	9.7	22.1
9 8	20 16.88	−11 58.6	2.327	3.146	12.5	22.3

346499 2008 UF_{86} 7 31.6 344°.96 5°.5/ 3.7 16

6 30	21 5.46	− 4 17.3	1.580	2.444	15.7	20.6
7 10	21 0.60	− 3 57.8	1.511	2.440	12.4	20.4
7 20	20 53.67	− 3 56.5	1.463	2.437	8.8	20.2
7 30	20 45.42	− 4 13.4	1.438	2.434	6.0	20.0
8 9	20 36.91	− 4 45.8	1.438	2.432	6.1	20.0
8 19	20 29.19	− 5 29.4	1.462	2.430	9.0	20.2
8 29	20 23.26	− 6 18.9	1.510	2.429	12.6	20.4
9 8	20 19.81	− 7 8.5	1.579	2.427	16.0	20.6

365410 2010 DC_{41} 7 31.6 224°.84 1°.3/30.9 18

6 30	21 10.14	−21 5.2	2.039	2.927	11.6	21.4
7 10	21 3.66	−21 23.2	1.964	2.919	8.3	21.2
7 20	20 55.26	−21 43.5	1.913	2.911	4.6	20.9
7 30	20 45.65	−22 2.4	1.888	2.902	1.4	20.7
8 9	20 35.79	−22 16.2	1.892	2.893	4.0	20.9
8 19	20 26.68	−22 22.6	1.924	2.883	7.8	21.1
8 29	20 19.22	−22 20.4	1.980	2.873	11.3	21.3
9 8	20 14.04	−22 9.8	2.058	2.863	14.4	21.5

288093 2003 WK_{13} 7 31.6 230°.69 2°.2/ 1.8 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 9.56	−11 35.9	1.630	2.509	14.5	20.9
7 10	21 3.57	−11 40.1	1.556	2.502	10.8	20.6
7 20	20 55.35	−11 56.3	1.503	2.495	6.5	20.4
7 30	20 45.68	−12 22.2	1.476	2.487	2.6	20.1
8 9	20 35.66	−12 53.8	1.475	2.479	4.2	20.2
8 19	20 26.45	−13 27.0	1.500	2.471	8.5	20.4
8 29	20 19.14	−13 57.9	1.549	2.462	12.7	20.7
9 8	20 14.46	−14 23.5	1.619	2.453	16.3	20.9

424199 2007 MY_{6} 7 31.6 34°.71 3°.3/ 3.0 18

6 30	21 3.63	− 6 2.2	1.336	2.218	16.9	20.1
7 10	20 59.44	− 6 59.8	1.286	2.231	12.7	19.8
7 20	20 53.05	− 8 20.2	1.256	2.244	8.1	19.6
7 30	20 45.34	− 9 58.1	1.249	2.258	3.9	19.4
8 9	20 37.49	−11 44.8	1.268	2.272	4.6	19.5
8 19	20 30.65	−13 31.0	1.311	2.288	8.8	19.8
8 29	20 25.85	−15 8.3	1.378	2.303	13.0	20.1
9 8	20 23.71	−16 31.1	1.466	2.320	16.7	20.3

99439 2002 CA_{1} 7 31.6 123°.99 3°.8/ 2.6 18

6 30	21 10.58	− 8 8.0	1.513	2.384	15.9	20.0
7 10	21 4.21	− 8 2.3	1.455	2.394	12.0	19.8
7 20	20 55.62	− 8 12.3	1.419	2.404	7.8	19.6
7 30	20 45.71	− 8 36.1	1.407	2.413	4.2	19.4
8 9	20 35.65	− 9 9.9	1.421	2.422	5.0	19.5
8 19	20 26.63	− 9 49.0	1.460	2.430	8.8	19.7
8 29	20 19.68	−10 28.7	1.524	2.438	12.8	20.0
9 8	20 15.42	−11 4.8	1.608	2.446	16.2	20.2

22550 Jonsellon 7 31.6 29°.98 6°.4/ 3.8 18

6 30	21 6.58	− 4 24.8	1.181	2.061	18.8	17.8
7 10	21 1.75	− 3 58.1	1.130	2.068	14.7	17.6
7 20	20 54.41	− 3 54.3	1.097	2.076	10.4	17.4
7 30	20 45.54	− 4 13.3	1.086	2.085	7.0	17.2
8 9	20 36.51	− 4 51.5	1.098	2.094	7.1	17.2
8 19	20 28.67	− 5 42.5	1.132	2.104	10.4	17.4
8 29	20 23.17	− 6 39.2	1.188	2.115	14.5	17.7
9 8	20 20.68	− 7 34.3	1.262	2.126	18.2	18.0

505914 2015 EE_{28} 7 31.6 254°.07 6°.6/ 5.6 18

6 30	21 5.69	+ 2 5.0	1.674	2.505	16.4	21.0
7 10	21 0.81	+ 1 40.1	1.590	2.494	13.4	20.8
7 20	20 53.85	+ 0 48.7	1.527	2.483	10.1	20.5
7 30	20 45.48	− 0 29.1	1.486	2.472	7.3	20.4
8 9	20 36.67	− 2 8.9	1.472	2.460	6.8	20.3
8 19	20 28.49	− 4 3.4	1.483	2.448	9.2	20.4
8 29	20 21.98	− 6 3.6	1.520	2.436	12.7	20.6
9 8	20 17.89	− 8 0.5	1.579	2.424	16.1	20.8

98848 2001 AT_{30} 7 31.6 89°.23 4°.7/28.4 18

6 30	21 10.22	−28 2.2	1.826	2.724	12.3	19.0
7 10	21 3.78	−29 19.0	1.788	2.744	9.0	18.9
7 20	20 55.30	−30 32.5	1.774	2.765	5.9	18.7
7 30	20 45.66	−31 35.5	1.787	2.785	4.8	18.7
8 9	20 35.98	−32 22.4	1.826	2.805	6.7	18.9
8 19	20 27.36	−32 50.6	1.891	2.824	9.7	19.1
8 29	20 20.73	−33 0.3	1.980	2.843	12.7	19.3
9 8	20 16.63	−32 53.8	2.088	2.862	15.1	19.5

41204 1999 WX_{8} 7 31.6 154°.39 4°.8/27.1 18 R

6 30	21 6.63	−31 42.0	2.534	3.423	9.6	18.1
7 10	21 0.99	−32 56.3	2.479	3.426	7.3	18.0
7 20	20 53.72	−34 6.6	2.449	3.430	5.3	17.9
7 30	20 45.44	−35 7.4	2.448	3.433	4.9	17.8
8 9	20 36.97	−35 54.3	2.474	3.436	6.3	17.9
8 19	20 29.14	−36 25.1	2.526	3.438	8.5	18.1
8 29	20 22.71	−36 39.3	2.603	3.441	10.8	18.2
9 8	20 18.25	−36 38.4	2.701	3.443	12.8	18.4

170919 2004 XM_{162} 7 31.6 279°.42 3°.1/29.9 18

6 30	21 9.57	−21 46.8	1.405	2.311	14.7	20.1
7 10	21 4.21	−22 50.3	1.326	2.290	10.6	19.8
7 20	20 56.02	−24 1.5	1.269	2.269	6.1	19.5
7 30	20 45.82	−25 12.4	1.237	2.248	3.1	19.2
8 9	20 34.93	−26 14.3	1.229	2.226	6.4	19.4
8 19	20 24.86	−27 0.4	1.246	2.204	11.3	19.6
8 29	20 17.06	−27 27.6	1.285	2.182	15.9	19.8
9 8	20 12.51	−27 36.1	1.342	2.160	19.9	20.0

101545 1998 YH_{23} 7 31.6 335°.62 4°.9/29.1 18

6 30	21 2.24	−24 10.9	1.027	1.958	16.6	18.1
7 10	20 59.50	−25 15.9	0.960	1.935	12.1	17.8
7 20	20 53.61	−26 27.4	0.912	1.914	7.4	17.4
7 30	20 45.49	−27 35.2	0.885	1.894	4.9	17.2
8 9	20 36.70	−28 28.6	0.879	1.875	8.3	17.4
8 19	20 29.02	−29 0.0	0.893	1.859	13.6	17.6
8 29	20 24.12	−29 6.4	0.926	1.844	18.6	17.8
9 8	20 23.00	−28 49.2	0.974	1.831	22.9	18.0

249750 2000 SK_{282} 7 31.6 323°.10 5°.3/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 6.79	− 8 9.3	1.162	2.054	18.1	19.7
7 10	21 2.25	− 7 35.1	1.092	2.041	14.0	19.4
7 20	20 54.92	− 7 18.6	1.040	2.028	9.5	19.1
7 30	20 45.67	− 7 20.2	1.010	2.015	5.7	18.9
8 9	20 35.90	− 7 37.7	1.002	2.004	6.5	18.9
8 19	20 27.12	− 8 6.5	1.017	1.993	10.9	19.1
8 29	20 20.72	− 8 41.0	1.053	1.982	15.7	19.4
9 8	20 17.63	− 9 15.1	1.106	1.973	20.0	19.6

409572 2005 UK_{182} 7 31.6 292°.00 3°.9/29.8 17

6 30	21 10.38	−23 23.6	1.190	2.104	16.2	21.3
7 10	21 5.19	−24 17.5	1.116	2.083	11.8	20.9
7 20	20 56.74	−25 17.1	1.061	2.061	7.0	20.6
7 30	20 45.95	−26 13.6	1.030	2.040	3.9	20.4
8 9	20 34.39	−26 57.7	1.021	2.018	7.3	20.5
8 19	20 23.85	−27 22.9	1.036	1.997	12.6	20.7
8 29	20 16.01	−27 27.1	1.070	1.976	17.7	21.0
9 8	20 11.94	−27 12.0	1.122	1.955	22.0	21.2

364023 2005 VS_{75} 7 31.6 166°.37 4°.8/ 4.8 18

6 30	21 4.52	+ 0 19.3	2.964	3.772	10.6	21.2
7 10	20 59.10	+ 0 36.3	2.888	3.776	8.6	21.1
7 20	20 52.54	+ 0 41.0	2.836	3.780	6.6	20.9
7 30	20 45.29	+ 0 33.3	2.810	3.784	5.1	20.9
8 9	20 37.92	+ 0 14.2	2.813	3.787	4.9	20.9
8 19	20 30.99	− 0 14.1	2.843	3.790	6.2	20.9
8 29	20 25.04	− 0 48.8	2.900	3.792	8.2	21.1
9 8	20 20.49	− 1 26.8	2.982	3.794	10.2	21.2

210836 2001 PB_{46} 7 31.6 318°.33 9°.5/25.8 18

6 30	21 12.63	−41 11.4	1.721	2.604	13.6	19.2
7 10	21 6.18	−42 14.7	1.661	2.591	11.4	19.1
7 20	20 56.95	−43 4.2	1.623	2.578	9.8	18.9
7 30	20 45.95	−43 31.2	1.609	2.565	9.7	18.9
8 9	20 34.67	−43 30.0	1.618	2.552	11.1	19.0
8 19	20 24.64	−42 59.9	1.649	2.540	13.5	19.1
8 29	20 17.14	−42 3.9	1.702	2.528	16.1	19.2
9 8	20 12.91	−40 48.1	1.771	2.517	18.5	19.4

37110 2000 UF_{103} 7 31.6 222°.66 3°.6/28.9 18

6 30	21 7.65	−28 18.9	2.435	3.325	9.9	19.0
7 10	21 1.71	−28 59.4	2.367	3.320	7.3	18.8
7 20	20 54.13	−29 37.6	2.324	3.314	4.7	18.6
7 30	20 45.54	−30 9.0	2.308	3.308	3.6	18.6
8 9	20 36.76	−30 29.9	2.320	3.302	5.2	18.7
8 19	20 28.64	−30 38.5	2.360	3.296	7.9	18.8
8 29	20 21.96	−30 34.2	2.424	3.290	10.6	19.0
9 8	20 17.27	−30 18.4	2.510	3.283	12.9	19.1

48801 Penninger 7 31.6 296°.25 4°.4/ 3.4 18

6 30	21 4.68	− 5 17.8	1.858	2.717	13.9	19.1
7 10	21 0.01	− 5 17.6	1.765	2.694	10.9	18.9
7 20	20 53.40	− 5 33.5	1.693	2.670	7.6	18.6
7 30	20 45.46	− 6 5.2	1.647	2.647	4.8	18.4
8 9	20 37.05	− 6 50.0	1.626	2.623	5.0	18.4
8 19	20 29.16	− 7 43.7	1.631	2.600	8.2	18.5
8 29	20 22.73	− 8 41.4	1.661	2.577	11.8	18.7
9 8	20 18.52	− 9 37.8	1.713	2.554	15.3	18.8

504608 2008 UL_{160} 7 31.6 211°.35 6°.2/26.8 18

6 30	21 11.16	−34 54.1	2.213	3.098	11.0	21.8
7 10	21 4.53	−36 5.0	2.151	3.092	8.6	21.6
7 20	20 55.82	−37 9.2	2.114	3.086	6.7	21.5
7 30	20 45.79	−38 0.0	2.104	3.079	6.3	21.4
8 9	20 35.48	−38 32.5	2.120	3.072	7.8	21.5
8 19	20 25.97	−38 44.5	2.162	3.064	10.2	21.7
8 29	20 18.25	−38 36.6	2.227	3.056	12.7	21.8
9 8	20 12.99	−38 11.8	2.312	3.048	14.9	22.0

326675 2002 VC_{108} 7 31.6 336°.98 6°.0/ 2.9 17

6 30	21 3.38	− 7 44.6	1.071	1.971	18.7	20.0
7 10	20 59.97	− 6 58.6	1.000	1.953	14.6	19.7
7 20	20 53.72	− 6 30.9	0.948	1.936	10.1	19.4
7 30	20 45.52	− 6 23.1	0.916	1.920	6.5	19.1
8 9	20 36.75	− 6 33.7	0.905	1.906	7.1	19.1
8 19	20 28.95	− 6 58.8	0.915	1.893	11.4	19.3
8 29	20 23.58	− 7 32.2	0.945	1.882	16.3	19.5
9 8	20 21.59	− 8 7.2	0.992	1.872	20.7	19.8

490587 2009 WT_{127} 7 31.6 200°.07 3°.0/29.4 18

6 30	21 9.65	−24 40.1	2.190	3.079	10.9	22.3
7 10	21 3.30	−25 36.5	2.121	3.076	7.8	22.1
7 20	20 55.08	−26 34.0	2.076	3.071	4.7	21.9
7 30	20 45.69	−27 26.9	2.059	3.066	3.0	21.8
8 9	20 36.03	−28 10.4	2.071	3.060	5.1	21.9
8 19	20 27.05	−28 41.2	2.110	3.054	8.3	22.1
8 29	20 19.65	−28 58.2	2.174	3.047	11.3	22.3
9 8	20 14.45	−29 1.9	2.260	3.039	14.0	22.5

49964 1999 XQ_{228} 7 31.6 72°.86 1°.3/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 10.06	−18 53.8	1.417	2.318	14.9	18.7
7 10	21 3.95	−19 33.3	1.372	2.334	10.6	18.5
7 20	20 55.50	−20 18.9	1.349	2.350	5.8	18.3
7 30	20 45.73	−21 4.6	1.351	2.366	1.4	18.0
8 9	20 35.94	−21 44.2	1.379	2.382	4.7	18.3
8 19	20 27.38	−22 13.6	1.432	2.398	9.3	18.6
8 29	20 21.08	−22 30.9	1.507	2.414	13.4	18.9
9 8	20 17.65	−22 36.1	1.603	2.429	16.8	19.1

304384 2006 SD_{393} 7 31.6 272°.10 6°.0/ 4.5 18

6 30	21 5.14	− 0 20.9	2.148	2.976	13.4	20.9
7 10	21 0.05	+ 0 2.7	2.059	2.961	10.9	20.7
7 20	20 53.29	+ 0 10.2	1.993	2.946	8.3	20.5
7 30	20 45.44	+ 0 1.0	1.951	2.931	6.4	20.4
8 9	20 37.26	− 0 24.1	1.935	2.916	6.2	20.3
8 19	20 29.57	− 1 2.1	1.946	2.900	8.1	20.4
8 29	20 23.18	− 1 49.0	1.981	2.884	10.9	20.6
9 8	20 18.70	− 2 40.0	2.040	2.869	13.6	20.7

280118 2002 JV_{1} 7 31.6 76°.06 8°.9/ 8.5 18

6 30	21 4.16	+10 49.7	2.334	3.092	14.5	19.9
7 10	20 59.09	+11 27.5	2.273	3.105	12.6	19.8
7 20	20 52.62	+11 43.9	2.232	3.119	10.8	19.7
7 30	20 45.33	+11 37.3	2.214	3.133	9.4	19.6
8 9	20 37.93	+11 8.5	2.219	3.147	8.9	19.6
8 19	20 31.12	+10 20.4	2.249	3.161	9.5	19.7
8 29	20 25.58	+ 9 17.6	2.304	3.174	10.8	19.8
9 8	20 21.77	+ 8 6.2	2.380	3.188	12.5	19.9

506603 2006 BS_{19} 7 31.7 140°.29 0°.5/ 1.0 17

6 30	21 8.61	−14 58.8	1.984	2.865	12.3	22.2
7 10	21 2.47	−15 20.7	1.923	2.873	8.8	22.0
7 20	20 54.57	−15 50.2	1.886	2.881	5.0	21.8
7 30	20 45.61	−16 23.8	1.875	2.889	1.0	21.5
8 9	20 36.54	−16 57.7	1.892	2.897	3.3	21.7
8 19	20 28.25	−17 28.4	1.937	2.904	7.2	22.0
8 29	20 21.59	−17 53.4	2.007	2.910	10.7	22.2
9 8	20 17.10	−18 11.3	2.099	2.916	13.7	22.4

495033 2010 VE_{131} 7 31.7 267°.70 7°.1/25.5 18

6 30	21 10.84	−40 15.3	2.482	3.353	10.4	21.6
7 10	21 4.28	−41 16.2	2.411	3.335	8.6	21.4
7 20	20 55.69	−42 7.6	2.365	3.316	7.3	21.3
7 30	20 45.79	−42 43.6	2.346	3.297	7.3	21.3
8 9	20 35.58	−42 59.7	2.351	3.278	8.5	21.3
8 19	20 26.10	−42 54.6	2.382	3.259	10.4	21.4
8 29	20 18.33	−42 29.3	2.436	3.240	12.5	21.5
9 8	20 12.94	−41 47.0	2.509	3.220	14.4	21.6

278964 2008 UV_{98} 7 31.7 319°.32 2°.0/30.5 18

6 30	21 4.85	−19 38.3	1.375	2.286	14.6	19.8
7 10	21 0.78	−20 28.2	1.295	2.262	10.6	19.5
7 20	20 54.10	−21 27.6	1.237	2.238	5.9	19.2
7 30	20 45.59	−22 30.0	1.202	2.216	2.0	18.9
8 9	20 36.48	−23 27.7	1.192	2.193	5.5	19.0
8 19	20 28.14	−24 14.1	1.205	2.172	10.6	19.3
8 29	20 21.93	−24 45.1	1.240	2.151	15.3	19.5
9 8	20 18.78	−24 59.5	1.293	2.132	19.4	19.7

95538 2002 EC_{84} 7 31.7 18°.55 1°.6/ 1.8 18

6 30	21 3.45	−11 44.4	1.817	2.701	13.0	19.2
7 10	20 58.94	−12 10.5	1.755	2.705	9.5	19.0
7 20	20 52.68	−12 48.2	1.716	2.710	5.7	18.8
7 30	20 45.35	−13 34.2	1.703	2.715	2.0	18.6
8 9	20 37.87	−14 24.1	1.716	2.721	3.5	18.7
8 19	20 31.13	−15 13.3	1.755	2.727	7.4	18.9
8 29	20 25.97	−15 57.8	1.819	2.734	11.0	19.2
9 8	20 22.94	−16 34.6	1.905	2.742	14.1	19.4

352545 2008 CD_{193} 7 31.7 161°.05 0°.9/ 1.4 18

6 30	21 5.44	−13 33.0	2.431	3.305	10.5	22.1
7 10	21 0.00	−13 54.6	2.362	3.308	7.6	21.9
7 20	20 53.14	−14 23.5	2.318	3.312	4.4	21.7
7 30	20 45.42	−14 57.1	2.301	3.315	1.2	21.5
8 9	20 37.56	−15 32.4	2.313	3.318	2.8	21.6
8 19	20 30.28	−16 6.3	2.353	3.320	6.1	21.8
8 29	20 24.24	−16 36.4	2.420	3.322	9.2	22.0
9 8	20 19.95	−17 0.9	2.509	3.324	11.8	22.2

30424 2000 LS_{4} 7 31.7 85°.99 2°.8/ 2.3 18

6 30	21 9.31	− 9 1.7	1.297	2.182	17.1	17.5
7 10	21 3.55	− 9 33.4	1.249	2.197	12.7	17.2
7 20	20 55.37	−10 23.5	1.220	2.211	7.8	17.0
7 30	20 45.75	−11 27.6	1.215	2.226	3.3	16.8
8 9	20 36.03	−12 38.5	1.235	2.240	4.6	16.9
8 19	20 27.50	−13 48.9	1.280	2.254	9.3	17.2
8 29	20 21.28	−14 52.5	1.348	2.268	13.7	17.5
9 8	20 17.99	−15 45.2	1.436	2.282	17.4	17.8

509135 2006 AB_{35} 7 31.7 127°.38 1°.5/30.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 4.27	−19 50.1	2.468	3.356	9.9	21.4
7 10	20 59.24	−20 53.8	2.405	3.361	7.0	21.3
7 20	20 52.75	−22 1.7	2.367	3.366	3.8	21.1
7 30	20 45.38	−23 9.3	2.357	3.370	1.5	20.9
8 9	20 37.83	−24 12.0	2.377	3.374	3.7	21.1
8 19	20 30.84	−25 6.3	2.424	3.378	6.8	21.3
8 29	20 25.09	−25 49.7	2.498	3.383	9.6	21.5
9 8	20 21.08	−26 21.4	2.594	3.386	12.0	21.6

445512 2010 WS_{22} 7 31.7 184°.07 1°.3/ 1.7 18

6 30	21 4.30	−12 29.1	2.726	3.594	9.7	22.2
7 10	20 59.08	−12 40.6	2.652	3.594	7.1	22.0
7 20	20 52.60	−12 59.0	2.603	3.594	4.2	21.8
7 30	20 45.36	−13 22.5	2.581	3.593	1.5	21.6
8 9	20 37.97	−13 48.6	2.589	3.593	2.7	21.7
8 19	20 31.08	−14 15.0	2.624	3.592	5.6	21.9
8 29	20 25.28	−14 39.5	2.687	3.590	8.3	22.1
9 8	20 21.01	−15 0.2	2.774	3.589	10.8	22.3

154802 2004 PF_{85} 7 31.7 320°.98 1°.0/ 1.3 18

6 30	21 3.25	−13 30.0	1.813	2.702	12.8	19.7
7 10	20 59.03	−13 53.9	1.727	2.681	9.4	19.4
7 20	20 52.88	−14 28.7	1.663	2.659	5.5	19.2
7 30	20 45.42	−15 11.6	1.624	2.638	1.5	18.9
8 9	20 37.56	−15 58.1	1.612	2.618	3.6	19.0
8 19	20 30.28	−16 43.8	1.626	2.598	7.9	19.2
8 29	20 24.53	−17 24.4	1.664	2.579	11.9	19.4
9 8	20 21.04	−17 57.1	1.723	2.560	15.3	19.6

447343 2005 YQ_{148} 7 31.7 260°.73 0°.8/31.1 18

6 30	21 6.73	−20 13.5	2.348	3.235	10.4	21.3
7 10	21 1.02	−20 24.3	2.274	3.229	7.4	21.1
7 20	20 53.75	−20 37.6	2.225	3.223	4.1	20.8
7 30	20 45.53	−20 50.4	2.204	3.218	0.9	20.6
8 9	20 37.14	−21 0.0	2.210	3.212	3.3	20.8
8 19	20 29.38	−21 4.4	2.245	3.207	6.7	21.0
8 29	20 22.98	−21 2.6	2.305	3.201	9.8	21.2
9 8	20 18.48	−20 54.2	2.388	3.195	12.5	21.4

188934 2007 CC_{42} 7 31.7 272°.68 2°.8/ 2.3 18

6 30	21 6.74	− 9 13.6	1.611	2.488	14.7	20.5
7 10	21 1.66	− 9 32.3	1.532	2.476	11.1	20.3
7 20	20 54.40	−10 7.0	1.475	2.464	7.0	20.0
7 30	20 45.66	−10 55.1	1.442	2.452	3.2	19.8
8 9	20 36.50	−11 51.8	1.435	2.439	4.3	19.8
8 19	20 28.05	−12 51.7	1.454	2.427	8.5	20.0
8 29	20 21.40	−13 49.2	1.497	2.414	12.8	20.2
9 8	20 17.30	−14 39.8	1.561	2.402	16.5	20.5

173520 2000 VZ_{14} 7 31.7 266°.34 3°.8/ 2.7 18

6 30	21 8.56	− 7 27.0	1.591	2.460	15.3	20.4
7 10	21 3.11	− 7 32.8	1.502	2.440	11.8	20.1
7 20	20 55.29	− 7 55.8	1.434	2.418	7.8	19.9
7 30	20 45.80	− 8 34.7	1.391	2.397	4.3	19.6
8 9	20 35.71	− 9 25.8	1.373	2.374	5.0	19.6
8 19	20 26.24	−10 23.7	1.381	2.352	9.1	19.8
8 29	20 18.58	−11 22.7	1.413	2.329	13.5	20.0
9 8	20 13.60	−12 17.6	1.465	2.305	17.4	20.2

157640 Baumeler 7 31.7 133°.36 3°.2/ 3.2 18

6 30	21 4.75	− 6 28.8	2.609	3.456	10.7	20.3
7 10	20 59.40	− 6 22.3	2.540	3.463	8.2	20.1
7 20	20 52.77	− 6 26.1	2.495	3.470	5.6	19.9
7 30	20 45.40	− 6 39.3	2.478	3.477	3.5	19.8
8 9	20 37.92	− 7 0.1	2.488	3.484	3.7	19.8
8 19	20 30.98	− 7 26.0	2.526	3.490	6.0	20.0
8 29	20 25.17	− 7 54.3	2.592	3.496	8.6	20.2
9 8	20 20.93	− 8 22.3	2.680	3.502	10.9	20.3

19055 1066 $T\text{-}_2$ 7 31.7 337°.33 2°.2/ 2.1 18 R

6 30	21 3.99	−10 55.7	1.839	2.720	13.1	18.4
7 10	20 59.41	−11 5.9	1.766	2.713	9.7	18.1
7 20	20 53.00	−11 27.8	1.715	2.707	6.0	17.9
7 30	20 45.46	−11 59.2	1.690	2.701	2.5	17.7
8 9	20 37.65	−12 36.5	1.691	2.695	3.7	17.7
8 19	20 30.53	−13 15.7	1.717	2.690	7.5	18.0
8 29	20 24.95	−13 52.9	1.769	2.685	11.2	18.2
9 8	20 21.54	−14 25.0	1.842	2.681	14.4	18.4

36760 2000 RS_{76} 7 31.7 300°.28 1°.2/30.9 18

6 30	21 5.64	−19 29.0	1.947	2.841	11.8	19.0
7 10	21 0.61	−20 4.6	1.871	2.829	8.4	18.8
7 20	20 53.69	−20 45.4	1.818	2.818	4.6	18.5
7 30	20 45.56	−21 27.2	1.792	2.806	1.3	18.3
8 9	20 37.13	−22 5.4	1.793	2.794	4.0	18.5
8 19	20 29.36	−22 36.2	1.820	2.783	7.9	18.7
8 29	20 23.15	−22 57.2	1.872	2.772	11.6	18.9
9 8	20 19.17	−23 7.6	1.945	2.761	14.7	19.1

521568 2015 OA_{105} 7 31.7 207°.66 3°.9/ 4.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 2.97	− 2 5.2	2.659	3.488	11.1	21.5
7 10	20 58.21	− 2 28.2	2.576	3.485	8.7	21.4
7 20	20 52.17	− 3 5.4	2.517	3.481	6.3	21.2
7 30	20 45.33	− 3 55.6	2.485	3.477	4.3	21.1
8 9	20 38.31	− 4 55.9	2.481	3.472	4.1	21.1
8 19	20 31.72	− 6 2.9	2.505	3.468	6.1	21.2
8 29	20 26.16	− 7 12.4	2.557	3.463	8.6	21.3
9 8	20 22.12	− 8 20.3	2.633	3.458	11.0	21.5

354715 2005 SY_{41} 7 31.7 39°.64 3°.4/29.6 18

6 30	21 8.58	−27 3.2	2.009	2.904	11.4	20.2
7 10	21 2.56	−27 31.5	1.951	2.908	8.3	20.0
7 20	20 54.67	−27 57.6	1.917	2.911	5.1	19.9
7 30	20 45.69	−28 16.6	1.910	2.915	3.4	19.8
8 9	20 36.62	−28 25.0	1.929	2.919	5.3	19.9
8 19	20 28.44	−28 21.0	1.975	2.923	8.5	20.1
8 29	20 21.99	−28 4.9	2.045	2.927	11.6	20.3
9 8	20 17.84	−27 38.0	2.137	2.931	14.2	20.5

292049 2006 QF_{187} 7 31.7 223°.10 4°.2/ 3.1 17

6 30	21 7.83	− 6 12.9	1.603	2.469	15.4	20.9
7 10	21 2.38	− 6 19.3	1.531	2.465	11.8	20.7
7 20	20 54.76	− 6 43.4	1.480	2.461	7.9	20.5
7 30	20 45.75	− 7 23.8	1.453	2.457	4.6	20.3
8 9	20 36.40	− 8 16.3	1.452	2.452	5.1	20.3
8 19	20 27.83	− 9 15.6	1.476	2.447	8.7	20.5
8 29	20 21.11	−10 15.9	1.525	2.442	12.6	20.7
9 8	20 16.92	−11 11.9	1.595	2.436	16.2	20.9

491732 2012 VO_3 7 31.7 311°.34 3°.0/ 2.4 18

6 30	21 5.46	− 9 18.5	1.635	2.514	14.5	21.3
7 10	21 0.69	− 9 25.9	1.559	2.504	10.9	21.0
7 20	20 53.85	− 9 48.0	1.505	2.494	6.9	20.8
7 30	20 45.64	−10 22.7	1.476	2.484	3.4	20.6
8 9	20 37.08	−11 6.2	1.472	2.475	4.3	20.6
8 19	20 29.25	−11 53.7	1.493	2.466	8.3	20.8
8 29	20 23.17	−12 40.2	1.538	2.457	12.4	21.0
9 8	20 19.53	−13 21.6	1.604	2.449	15.9	21.2

231268 2006 AG_{21} 7 31.7 53°.05 5°.9/27.6 18

6 30	21 8.33	−28 15.1	1.528	2.435	13.7	19.2
7 10	21 2.94	−29 56.5	1.485	2.445	10.0	19.0
7 20	20 55.12	−31 35.7	1.465	2.455	6.9	18.9
7 30	20 45.81	−33 2.8	1.470	2.466	6.0	18.9
8 9	20 36.31	−34 9.9	1.501	2.476	8.2	19.0
8 19	20 27.92	−34 53.0	1.555	2.487	11.5	19.2
8 29	20 21.76	−35 11.8	1.632	2.498	14.8	19.5
9 8	20 18.51	−35 9.3	1.726	2.509	17.5	19.7

481751 2008 HQ_{37} 7 31.7 63°.31 6°.9/ 5.9 18

6 30	21 4.59	+ 3 12.5	2.150	2.960	14.0	20.4
7 10	20 59.51	+ 3 40.8	2.089	2.973	11.6	20.3
7 20	20 52.93	+ 3 50.5	2.049	2.985	9.2	20.1
7 30	20 45.49	+ 3 41.0	2.033	2.997	7.4	20.1
8 9	20 37.94	+ 3 13.8	2.042	3.009	7.0	20.1
8 19	20 31.03	+ 2 32.1	2.077	3.022	8.3	20.2
8 29	20 25.47	+ 1 40.4	2.137	3.034	10.5	20.3
9 8	20 21.75	+ 0 43.9	2.220	3.047	12.7	20.5

257817 2000 GS_{36} 7 31.7 126°.80 2°.2/30.3 17

6 30	21 10.68	−21 30.0	1.744	2.638	13.0	20.7
7 10	21 4.23	−22 18.3	1.691	2.649	9.2	20.5
7 20	20 55.68	−23 9.6	1.661	2.660	5.1	20.3
7 30	20 45.91	−23 58.2	1.658	2.670	2.2	20.1
8 9	20 36.02	−24 38.6	1.682	2.680	4.8	20.3
8 19	20 27.12	−25 7.2	1.732	2.689	8.8	20.5
8 29	20 20.17	−25 22.7	1.807	2.698	12.3	20.8
9 8	20 15.77	−25 25.6	1.902	2.707	15.4	21.0

179281 2001 VT_4 7 31.7 193°.42 13°.2/ 6.3 17

6 30	21 13.13	+ 8 55.8	1.400	2.196	20.8	20.1
7 10	21 6.50	+10 31.0	1.334	2.195	18.1	19.9
7 20	20 57.23	+11 38.0	1.285	2.194	15.6	19.7
7 30	20 46.18	+12 10.4	1.257	2.192	13.7	19.6
8 9	20 34.65	+12 5.8	1.250	2.189	13.3	19.6
8 19	20 24.03	+11 27.0	1.266	2.186	14.6	19.6
8 29	20 15.64	+10 21.2	1.301	2.181	16.9	19.8
9 8	20 10.32	+ 8 59.1	1.356	2.177	19.6	19.9

285421 1999 VT_{76} 7 31.7 313°.58 3°.0/ 2.8 18

6 30	21 3.99	− 8 11.2	2.117	2.982	12.2	21.0
7 10	20 59.23	− 8 14.4	2.039	2.974	9.3	20.8
7 20	20 52.88	− 8 29.6	1.984	2.967	6.1	20.6
7 30	20 45.52	− 8 55.4	1.955	2.960	3.3	20.4
8 9	20 37.93	− 9 29.1	1.953	2.954	3.9	20.5
8 19	20 30.91	−10 7.3	1.978	2.947	6.9	20.6
8 29	20 25.22	−10 46.3	2.028	2.941	10.1	20.8
9 8	20 21.43	−11 22.8	2.101	2.935	13.1	21.0

126559 2002 CG_{104} 7 31.7 79°.20 0°.2/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 5.55	−16 48.9	2.178	3.063	11.1	20.0
7 10	21 0.22	−17 18.8	2.120	3.074	7.9	19.8
7 20	20 53.35	−17 54.3	2.088	3.085	4.3	19.6
7 30	20 45.58	−18 32.1	2.082	3.097	0.6	19.4
8 9	20 37.72	−19 8.3	2.104	3.108	3.2	19.6
8 19	20 30.57	−19 39.9	2.153	3.119	6.7	19.8
8 29	20 24.84	−20 4.7	2.229	3.130	9.9	20.1
9 8	20 21.03	−20 21.5	2.326	3.141	12.6	20.3

25567 1999 XJ_{178} 7 31.7 322°.16 0°.3/31.8 18

6 30	21 8.75	−18 4.6	1.176	2.087	16.6	17.3
7 10	21 3.88	−17 46.1	1.100	2.065	12.1	17.0
7 20	20 56.00	−17 33.3	1.044	2.045	6.9	16.7
7 30	20 46.02	−17 23.2	1.010	2.025	1.1	16.2
8 9	20 35.43	−17 12.4	0.999	2.005	5.0	16.4
8 19	20 25.87	−16 58.1	1.011	1.987	10.8	16.7
8 29	20 18.85	−16 38.8	1.044	1.970	16.1	16.9
9 8	20 15.32	−16 14.1	1.094	1.954	20.7	17.2

131898 2002 BB_{1} 7 31.7 202°.09 1°.2/ 1.7 18

6 30	21 6.69	−10 38.8	1.980	2.852	12.6	19.9
7 10	21 1.31	−11 37.7	1.905	2.849	9.3	19.7
7 20	20 54.10	−12 50.4	1.853	2.845	5.5	19.5
7 30	20 45.72	−14 12.5	1.829	2.842	1.7	19.2
8 9	20 37.02	−15 38.2	1.833	2.838	3.4	19.3
8 19	20 28.95	−17 1.5	1.865	2.833	7.3	19.5
8 29	20 22.36	−18 17.3	1.923	2.828	11.0	19.8
9 8	20 17.91	−19 22.0	2.003	2.823	14.2	20.0

311150 2004 RB_{339} 7 31.7 290°.63 0°.8/ 1.4 18

6 30	21 3.63	−12 25.4	2.163	3.041	11.5	20.4
7 10	20 59.07	−13 13.3	2.078	3.026	8.4	20.2
7 20	20 52.85	−14 12.6	2.017	3.011	4.9	19.9
7 30	20 45.55	−15 19.7	1.982	2.996	1.3	19.6
8 9	20 37.91	−16 29.9	1.976	2.981	3.1	19.8
8 19	20 30.76	−17 38.2	1.998	2.966	6.9	20.0
8 29	20 24.90	−18 40.4	2.045	2.952	10.4	20.2
9 8	20 20.96	−19 33.5	2.115	2.937	13.4	20.3

510102 2010 RK_{11} 7 31.7 14°.98 4°.8/ 4.2 18

6 30	21 3.63	− 2 59.8	2.006	2.853	13.5	21.2
7 10	20 59.00	− 3 1.4	1.936	2.855	10.6	21.0
7 20	20 52.76	− 3 19.5	1.888	2.856	7.6	20.8
7 30	20 45.53	− 3 53.3	1.864	2.858	5.2	20.7
8 9	20 38.10	− 4 39.9	1.867	2.860	5.1	20.7
8 19	20 31.31	− 5 35.2	1.896	2.862	7.5	20.8
8 29	20 25.90	− 6 34.3	1.951	2.864	10.5	21.0
9 8	20 22.45	− 7 32.5	2.028	2.867	13.3	21.2

512583 2016 SO_{40} 7 31.7 247°.73 3°.9/ 3.5 18

6 30	21 5.00	− 5 9.4	1.963	2.818	13.4	21.6
7 10	21 0.07	− 5 23.4	1.887	2.815	10.4	21.4
7 20	20 53.40	− 5 53.4	1.834	2.811	7.1	21.2
7 30	20 45.64	− 6 37.8	1.806	2.807	4.3	21.0
8 9	20 37.62	− 7 33.1	1.805	2.803	4.5	21.0
8 19	20 30.21	− 8 34.8	1.830	2.799	7.4	21.2
8 29	20 24.26	− 9 37.7	1.881	2.795	10.8	21.4
9 8	20 20.35	−10 37.2	1.954	2.790	13.8	21.6

74352 1998 VA_{55} 7 31.7 274°.95 3°.0/29.7 18

6 30	21 8.16	−24 27.9	1.909	2.806	11.9	19.6
7 10	21 2.55	−25 11.9	1.835	2.794	8.6	19.3
7 20	20 54.88	−25 57.3	1.785	2.782	5.1	19.1
7 30	20 45.87	−26 38.5	1.761	2.769	3.0	18.9
8 9	20 36.54	−27 10.5	1.764	2.757	5.3	19.1
8 19	20 27.94	−27 29.8	1.793	2.745	8.9	19.3
8 29	20 21.07	−27 35.4	1.847	2.732	12.4	19.5
9 8	20 16.62	−27 27.8	1.920	2.720	15.4	19.6

375718 2009 QU_{20} 7 31.7 7°.71 2°.7/30.8 17

6 30	21 12.55	−24 25.5	1.206	2.117	16.2	20.0
7 10	21 6.27	−24 19.6	1.152	2.117	11.7	19.7
7 20	20 57.10	−24 12.3	1.118	2.118	6.7	19.5
7 30	20 46.20	−23 58.2	1.108	2.120	2.8	19.2
8 9	20 35.21	−23 33.8	1.121	2.123	5.9	19.4
8 19	20 25.70	−22 58.3	1.158	2.126	10.8	19.7
8 29	20 18.94	−22 13.3	1.217	2.130	15.4	20.0
9 8	20 15.61	−21 21.2	1.294	2.135	19.2	20.3

429582 2011 EE_{23} 7 31.7 99°.97 3°.8/29.4 17

6 30	21 12.50	−26 22.7	1.836	2.729	12.5	21.7
7 10	21 5.39	−27 16.4	1.797	2.752	9.0	21.6
7 20	20 56.27	−28 7.8	1.781	2.775	5.5	21.4
7 30	20 46.06	−28 50.6	1.792	2.797	3.8	21.4
8 9	20 35.89	−29 20.3	1.831	2.818	5.8	21.5
8 19	20 26.83	−29 34.7	1.896	2.839	9.1	21.8
8 29	20 19.78	−29 34.1	1.985	2.860	12.2	22.0
9 8	20 15.27	−29 20.4	2.094	2.879	14.8	22.2

275775 2001 PX_{56} 7 31.7 343°.95 1°.2/ 1.2 14 C

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 3.27	−15 11.5	1.050	1.969	17.4	20.2
7 10	20 59.99	−15 8.4	0.986	1.954	12.8	19.9
7 20	20 53.84	−15 17.7	0.940	1.941	7.4	19.5
7 30	20 45.76	−15 36.1	0.915	1.929	1.8	19.2
8 9	20 37.20	−15 58.5	0.912	1.919	4.9	19.3
8 19	20 29.76	−16 19.7	0.930	1.911	10.7	19.6
8 29	20 24.85	−16 35.2	0.968	1.904	16.0	19.9
9 8	20 23.36	−16 42.1	1.023	1.899	20.6	20.2

478672 2012 TB_{282} 7 31.7 348°.11 8°.0/ 3.4 16

6 30	21 6.74	− 4 11.4	1.279	2.153	18.0	20.6
7 10	21 2.00	− 2 50.2	1.212	2.144	14.5	20.4
7 20	20 54.76	− 1 46.2	1.165	2.136	10.9	20.2
7 30	20 45.88	− 1 3.1	1.139	2.129	8.3	20.0
8 9	20 36.63	− 0 41.9	1.136	2.124	8.5	20.0
8 19	20 28.32	− 0 40.9	1.156	2.119	11.4	20.1
8 29	20 22.19	− 0 55.4	1.196	2.116	15.1	20.4
9 8	20 19.03	− 1 19.3	1.255	2.114	18.6	20.6

400961 2010 VC_{204} 7 31.7 352°.03 3°.9/29.8 18

6 30	21 9.65	−28 11.4	1.790	2.689	12.4	20.3
7 10	21 3.58	−28 25.0	1.728	2.685	9.1	20.0
7 20	20 55.39	−28 34.8	1.688	2.682	5.7	19.8
7 30	20 45.95	−28 35.7	1.675	2.680	3.9	19.7
8 9	20 36.39	−28 24.5	1.687	2.678	5.8	19.8
8 19	20 27.82	−28 0.1	1.725	2.676	9.3	20.0
8 29	20 21.22	−27 23.4	1.787	2.675	12.6	20.2
9 8	20 17.20	−26 36.7	1.869	2.675	15.6	20.4

34370 2000 RY_{42} 7 31.7 358°.88 0°.1/31.8 18

6 30	21 8.40	−18 5.1	1.853	2.743	12.5	18.0
7 10	21 2.53	−17 56.1	1.786	2.742	9.0	17.8
7 20	20 54.77	−17 51.2	1.743	2.741	5.0	17.5
7 30	20 45.86	−17 47.9	1.726	2.741	0.8	17.2
8 9	20 36.82	−17 43.7	1.736	2.741	3.5	17.4
8 19	20 28.61	−17 36.7	1.772	2.741	7.6	17.7
8 29	20 22.13	−17 25.8	1.834	2.742	11.3	17.9
9 8	20 17.96	−17 10.5	1.917	2.743	14.5	18.1

365262 2009 PN_{21} 7 31.7 317°.69 0°.0/31.5 18

6 30	21 2.92	−14 45.0	1.994	2.883	11.8	20.0
7 10	20 58.71	−15 40.7	1.912	2.867	8.5	19.8
7 20	20 52.74	−16 47.2	1.853	2.851	4.8	19.5
7 30	20 45.59	−18 0.2	1.821	2.836	0.7	19.2
8 9	20 38.08	−19 13.9	1.816	2.821	3.5	19.4
8 19	20 31.10	−20 23.2	1.838	2.806	7.5	19.6
8 29	20 25.53	−21 23.5	1.886	2.792	11.2	19.8
9 8	20 22.02	−22 12.2	1.955	2.778	14.3	20.0

261817 2006 CX_{14} 7 31.7 214°.54 1°.0/ 1.6 18

6 30	21 3.97	−12 44.8	2.605	3.475	10.0	20.8
7 10	20 59.00	−13 10.7	2.528	3.472	7.3	20.6
7 20	20 52.70	−13 44.4	2.475	3.468	4.3	20.4
7 30	20 45.57	−14 23.4	2.450	3.463	1.3	20.2
8 9	20 38.25	−15 4.7	2.454	3.459	2.7	20.3
8 19	20 31.41	−15 45.2	2.487	3.454	5.8	20.5
8 29	20 25.69	−16 22.4	2.546	3.450	8.7	20.7
9 8	20 21.56	−16 54.0	2.629	3.445	11.3	20.9

508222 2015 GB_{40} 7 31.7 181°.97 8°.9/25.6 17

6 30	21 14.36	−39 45.5	1.828	2.709	13.1	21.7
7 10	21 7.31	−41 9.5	1.780	2.709	10.7	21.6
7 20	20 57.63	−42 21.2	1.754	2.710	9.1	21.5
7 30	20 46.30	−43 11.8	1.754	2.709	9.0	21.5
8 9	20 34.75	−43 35.6	1.778	2.709	10.5	21.6
8 19	20 24.39	−43 31.3	1.825	2.708	12.8	21.7
8 29	20 16.43	−43 1.7	1.894	2.708	15.2	21.9
9 8	20 11.60	−42 12.0	1.980	2.706	17.3	22.1

74881 1999 TE_{105} 7 31.7 165°.00 2°.0/ 1.7 18

6 30	21 10.11	−12 29.2	1.554	2.437	14.9	19.1
7 10	21 4.04	−12 31.4	1.489	2.439	11.0	18.9
7 20	20 55.73	−12 45.1	1.447	2.440	6.5	18.6
7 30	20 46.03	−13 7.4	1.429	2.441	2.4	18.4
8 9	20 36.09	−13 34.3	1.437	2.442	4.1	18.5
8 19	20 27.11	−14 2.0	1.471	2.443	8.6	18.8
8 29	20 20.13	−14 26.6	1.529	2.444	12.7	19.0
9 8	20 15.84	−14 45.8	1.608	2.444	16.3	19.3

501790 2014 VB_{25} 7 31.7 274°.05 2°.4/30.4 17

6 30	21 10.13	−20 46.1	1.371	2.276	15.1	22.0
7 10	21 4.63	−21 36.3	1.299	2.262	10.9	21.7
7 20	20 56.34	−22 33.7	1.248	2.248	6.1	21.4
7 30	20 46.15	−23 31.2	1.221	2.234	2.4	21.1
8 9	20 35.40	−24 20.9	1.219	2.219	5.8	21.3
8 19	20 25.60	−24 57.1	1.241	2.204	10.8	21.6
8 29	20 18.13	−25 17.0	1.286	2.190	15.4	21.8
9 8	20 13.88	−25 20.7	1.349	2.175	19.4	22.0

155788 2000 SR_{366} 7 31.7 23°.41 4°.8/ 3.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 4.03	− 3 52.4	1.398	2.269	16.9	19.5
7 10	20 59.82	− 4 21.0	1.339	2.274	13.1	19.3
7 20	20 53.44	− 5 13.3	1.299	2.279	9.0	19.1
7 30	20 45.70	− 6 26.4	1.283	2.285	5.4	18.9
8 9	20 37.72	− 7 54.0	1.291	2.292	5.4	18.9
8 19	20 30.66	− 9 27.9	1.324	2.299	8.9	19.1
8 29	20 25.55	−11 0.0	1.380	2.306	12.9	19.4
9 8	20 23.05	−12 23.3	1.457	2.314	16.6	19.6

365304 2009 RE_{69} 7 31.7 327°.46 7°.8/ 6.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 1.45	+ 4 23.0	1.903	2.721	15.3	20.0
7 10	20 57.68	+ 4 35.1	1.816	2.703	12.9	19.8
7 20	20 52.18	+ 4 24.6	1.749	2.686	10.4	19.6
7 30	20 45.52	+ 3 50.0	1.704	2.670	8.3	19.5
8 9	20 38.50	+ 2 53.0	1.683	2.654	7.8	19.4
8 19	20 32.00	+ 1 37.5	1.687	2.639	9.3	19.5
8 29	20 26.87	+ 0 9.8	1.715	2.625	11.8	19.6
9 8	20 23.76	− 1 22.8	1.765	2.611	14.6	19.7

254178 2004 RQ_{8} 7 31.7 2°.20 3°.9/ 3.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 5.13	− 7 24.4	1.866	2.732	13.5	19.9
7 10	21 0.18	− 7 4.8	1.798	2.732	10.4	19.7
7 20	20 53.48	− 6 58.1	1.751	2.732	7.0	19.5
7 30	20 45.70	− 7 3.7	1.730	2.732	4.3	19.4
8 9	20 37.74	− 7 19.5	1.735	2.733	4.7	19.4
8 19	20 30.48	− 7 42.5	1.765	2.734	7.7	19.6
8 29	20 24.77	− 8 9.1	1.821	2.736	11.0	19.8
9 8	20 21.17	− 8 35.7	1.898	2.738	14.0	20.0

161829 2006 XQ_{8} 7 31.7 343°.03 3°.3/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 5.90	−24 26.5	1.981	2.880	11.4	19.7
7 10	21 0.84	−25 35.1	1.918	2.878	8.2	19.5
7 20	20 53.90	−26 45.6	1.881	2.877	4.9	19.3
7 30	20 45.77	−27 51.6	1.869	2.875	3.4	19.2
8 9	20 37.40	−28 47.5	1.885	2.874	5.5	19.3
8 19	20 29.75	−29 29.4	1.927	2.873	8.8	19.5
8 29	20 23.71	−29 55.5	1.994	2.872	11.9	19.7
9 8	20 19.92	−30 6.3	2.080	2.872	14.7	19.9

91369 1999 JW_{90} 7 31.7 67°.96 8°.4/ 6.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 5.97	+ 4 27.4	1.622	2.443	17.3	19.6
7 10	21 0.91	+ 4 43.8	1.565	2.455	14.4	19.4
7 20	20 53.92	+ 4 34.4	1.527	2.467	11.4	19.3
7 30	20 45.77	+ 3 58.6	1.510	2.479	9.0	19.2
8 9	20 37.47	+ 2 59.3	1.518	2.491	8.4	19.2
8 19	20 30.02	+ 1 42.2	1.550	2.503	10.0	19.3
8 29	20 24.34	+ 0 14.8	1.606	2.515	12.6	19.5
9 8	20 21.02	− 1 14.8	1.683	2.527	15.3	19.7

425593 2010 TD_{171} 7 31.7 254°.00 4°.3/29.6 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 13.06	−26 38.3	1.528	2.429	14.1	21.5
7 10	21 6.50	−27 17.4	1.460	2.419	10.3	21.3
7 20	20 57.26	−27 55.3	1.414	2.409	6.4	21.1
7 30	20 46.29	−28 24.9	1.392	2.398	4.3	20.9
8 9	20 34.95	−28 40.2	1.397	2.388	6.7	21.0
8 19	20 24.67	−28 38.4	1.426	2.377	10.8	21.2
8 29	20 16.73	−28 19.5	1.478	2.366	14.8	21.4
9 8	20 11.91	−27 46.5	1.549	2.355	18.2	21.7

359871 2011 WO_{8} 7 31.7 183°.03 0°.2/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 6.07	−17 19.5	2.718	3.595	9.4	22.4
7 10	21 0.44	−17 43.3	2.646	3.595	6.7	22.2
7 20	20 53.47	−18 11.4	2.599	3.595	3.7	22.0
7 30	20 45.70	−18 41.0	2.580	3.595	0.5	21.7
8 9	20 37.79	−19 9.4	2.591	3.594	2.7	21.9
8 19	20 30.39	−19 34.1	2.630	3.593	5.8	22.1
8 29	20 24.13	−19 53.5	2.696	3.591	8.6	22.3
9 8	20 19.49	−20 6.5	2.786	3.589	11.0	22.5

177174 2003 SM_{169} 7 31.7 299°.73 3°.3/30.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 9.16	−22 38.0	1.296	2.207	15.3	19.8
7 10	21 4.16	−23 26.5	1.219	2.185	11.1	19.5
7 20	20 56.21	−24 20.8	1.164	2.164	6.5	19.2
7 30	20 46.16	−25 13.1	1.132	2.143	3.3	18.9
8 9	20 35.45	−25 55.4	1.124	2.122	6.6	19.1
8 19	20 25.65	−26 21.8	1.140	2.102	11.6	19.3
8 29	20 18.29	−26 29.9	1.176	2.082	16.4	19.5
9 8	20 14.36	−26 20.6	1.230	2.062	20.6	19.7

59583 1999 JM_{55} 7 31.7 123°.25 4°.6/28.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 11.70	−28 32.1	2.019	2.910	11.6	20.0
7 10	21 4.86	−29 49.2	1.975	2.927	8.5	19.8
7 20	20 56.06	−31 3.2	1.956	2.944	5.7	19.7
7 30	20 46.10	−32 7.0	1.964	2.960	4.7	19.6
8 9	20 36.04	−32 55.4	2.000	2.976	6.5	19.8
8 19	20 26.92	−33 25.7	2.063	2.991	9.3	20.0
8 29	20 19.66	−33 38.0	2.149	3.005	12.1	20.2
9 8	20 14.82	−33 34.4	2.256	3.019	14.5	20.4

305485 2008 DL_{88} 7 31.7 119°.53 1°.3/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 6.51	−20 24.6	2.388	3.274	10.2	21.3
7 10	21 0.87	−21 2.5	2.330	3.285	7.2	21.1
7 20	20 53.75	−21 43.2	2.298	3.296	4.0	21.0
7 30	20 45.78	−22 22.9	2.293	3.306	1.3	20.8
8 9	20 37.70	−22 58.0	2.317	3.316	3.5	21.0
8 19	20 30.29	−23 25.9	2.368	3.326	6.7	21.2
8 29	20 24.22	−23 44.9	2.446	3.336	9.6	21.4
9 8	20 20.00	−23 54.8	2.546	3.345	12.1	21.6

13419 1999 VJ_{10} 7 31.7 217°.65 0°.0/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 5.15	−16 51.5	2.697	3.575	9.5	19.5
7 10	20 59.85	−17 14.8	2.619	3.569	6.8	19.4
7 20	20 53.19	−17 42.8	2.566	3.562	3.8	19.2
7 30	20 45.71	−18 13.0	2.541	3.556	0.6	18.9
8 9	20 38.04	−18 42.4	2.545	3.549	2.7	19.1
8 19	20 30.85	−19 8.8	2.578	3.542	5.9	19.3
8 29	20 24.77	−19 29.9	2.637	3.534	8.7	19.4
9 8	20 20.30	−19 44.9	2.720	3.526	11.2	19.6

84430 2002 TL_{224} 7 31.7 127°.17 9°.0/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 16.91	−39 8.7	1.653	2.537	14.1	19.4
7 10	21 9.18	−40 18.8	1.610	2.544	11.4	19.3
7 20	20 58.66	−41 15.0	1.590	2.551	9.4	19.2
7 30	20 46.52	−41 48.5	1.594	2.558	9.1	19.2
8 9	20 34.33	−41 54.0	1.623	2.565	10.5	19.3
8 19	20 23.62	−41 31.5	1.674	2.571	13.0	19.4
8 29	20 15.61	−40 44.7	1.747	2.577	15.6	19.6
9 8	20 10.94	−39 39.9	1.838	2.583	17.9	19.8

418090 2007 VB_{328} 7 31.7 354°.11 4°.2/ 2.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 9.25	−11 29.8	1.096	1.997	18.3	19.9
7 10	21 4.10	−10 41.7	1.037	1.993	13.8	19.7
7 20	20 56.05	−10 6.8	0.997	1.990	8.8	19.4
7 30	20 46.16	− 9 45.5	0.978	1.987	4.6	19.1
8 9	20 35.95	− 9 35.8	0.983	1.986	5.9	19.2
8 19	20 27.00	− 9 35.0	1.009	1.986	10.8	19.5
8 29	20 20.68	− 9 39.1	1.056	1.986	15.6	19.8
9 8	20 17.74	− 9 44.1	1.121	1.987	19.8	20.0

438719 2008 SF_{102} 7 31.7 226°.84 1°.5/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 8.30	−20 9.3	2.058	2.947	11.5	21.3
7 10	21 2.51	−20 53.5	1.982	2.938	8.2	21.1
7 20	20 54.85	−21 42.4	1.931	2.930	4.6	20.9
7 30	20 45.97	−22 31.3	1.907	2.921	1.5	20.6
8 9	20 36.79	−23 15.4	1.912	2.911	4.1	20.8
8 19	20 28.25	−23 50.8	1.943	2.901	7.9	21.0
8 29	20 21.27	−24 15.4	2.000	2.891	11.3	21.2
9 8	20 16.49	−24 28.6	2.078	2.880	14.3	21.4

262977 2007 EX_{17} 7 31.7 235°.00 2°.7/ 3.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 3.72	− 7 15.0	2.417	3.273	11.2	21.0
7 10	20 58.93	− 7 34.3	2.338	3.268	8.5	20.8
7 20	20 52.73	− 8 5.7	2.283	3.264	5.6	20.6
7 30	20 45.65	− 8 47.1	2.254	3.259	3.1	20.4
8 9	20 38.35	− 9 35.7	2.253	3.254	3.5	20.5
8 19	20 31.55	−10 28.0	2.281	3.249	6.2	20.6
8 29	20 25.91	−11 20.1	2.334	3.244	9.1	20.8
9 8	20 21.94	−12 8.8	2.412	3.239	11.8	21.0

242471 2004 SB_{53} 7 31.7 351°.98 3°.1/ 1.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 5.53	−11 51.2	0.977	1.890	19.0	19.7
7 10	21 1.69	−11 38.7	0.920	1.884	14.2	19.4
7 20	20 54.82	−11 43.4	0.881	1.879	8.7	19.1
7 30	20 45.99	−12 3.1	0.863	1.875	3.7	18.8
8 9	20 36.76	−12 32.7	0.865	1.872	5.5	18.9
8 19	20 28.80	−13 6.2	0.889	1.871	11.0	19.2
8 29	20 23.56	−13 37.5	0.933	1.870	16.3	19.5
9 8	20 21.87	−14 1.9	0.993	1.872	20.8	19.8

210316 2007 TZ_{213} 7 31.7 271°.97 1°.2/ 1.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 7.09	−13 50.7	1.934	2.815	12.5	20.9
7 10	21 1.68	−13 59.7	1.856	2.805	9.1	20.7
7 20	20 54.40	−14 17.4	1.801	2.795	5.3	20.4
7 30	20 45.92	−14 41.1	1.772	2.785	1.6	20.2
8 9	20 37.14	−15 7.6	1.770	2.775	3.4	20.3
8 19	20 29.03	−15 33.4	1.795	2.765	7.4	20.5
8 29	20 22.46	−15 55.7	1.845	2.755	11.2	20.7
9 8	20 18.10	−16 12.5	1.917	2.745	14.4	20.9

514666 2005 UZ_{262} 7 31.7 359°.78 3°.4/ 3.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 0.67	− 6 2.5	2.269	3.128	11.7	20.5
7 10	20 56.81	− 6 11.7	2.196	3.126	9.0	20.3
7 20	20 51.57	− 6 33.9	2.147	3.125	6.1	20.1
7 30	20 45.48	− 7 7.6	2.123	3.124	3.7	20.0
8 9	20 39.23	− 7 50.1	2.126	3.124	3.9	20.0
8 19	20 33.51	− 8 38.0	2.156	3.125	6.4	20.1
8 29	20 28.96	− 9 27.3	2.211	3.127	9.3	20.3
9 8	20 26.08	−10 14.4	2.289	3.129	11.9	20.5

63098 2000 WC_{146} 7 31.7 200°.16 1°.3/ 1.9 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 4.29	−11 3.2	2.471	3.338	10.6	19.9
7 10	20 59.33	−11 43.2	2.394	3.336	7.8	19.7
7 20	20 52.95	−12 33.2	2.343	3.333	4.7	19.5
7 30	20 45.69	−13 30.2	2.319	3.331	1.6	19.2
8 9	20 38.23	−14 30.4	2.323	3.328	2.8	19.3
8 19	20 31.26	−15 30.0	2.356	3.325	6.0	19.5
8 29	20 25.44	−16 25.4	2.416	3.321	9.1	19.7
9 8	20 21.30	−17 13.9	2.500	3.318	11.7	19.9

260276 2004 TQ_{7} 7 31.7 287°.85 3°.9/28.5 18

6 30	21 6.18	−27 7.6	2.244	3.139	10.4	20.1
7 10	21 1.06	−28 12.8	2.163	3.119	7.6	19.9
7 20	20 54.09	−29 18.6	2.107	3.099	5.0	19.7
7 30	20 45.88	−30 19.1	2.078	3.078	3.9	19.6
8 9	20 37.28	−31 9.1	2.076	3.057	5.8	19.7
8 19	20 29.22	−31 45.0	2.101	3.037	8.7	19.8
8 29	20 22.58	−32 5.2	2.150	3.016	11.7	20.0
9 8	20 18.06	−32 10.1	2.220	2.995	14.3	20.1

344720 2003 UJ_{76} 7 31.7 18°.06 8°.9/ 4.8 17

6 30	21 6.46	− 0 26.6	1.318	2.176	18.5	19.5
7 10	21 1.60	+ 0 45.7	1.265	2.182	15.2	19.3
7 20	20 54.46	+ 1 35.2	1.231	2.190	11.8	19.2
7 30	20 45.93	+ 1 58.8	1.219	2.198	9.3	19.1
8 9	20 37.23	+ 1 57.2	1.229	2.208	9.1	19.1
8 19	20 29.59	+ 1 33.9	1.262	2.219	11.3	19.2
8 29	20 24.05	+ 0 55.1	1.316	2.231	14.3	19.4
9 8	20 21.26	+ 0 8.6	1.389	2.243	17.4	19.7

61301 2000 ON_{47} 7 31.7 306°.89 6°.2/ 4.9 18

6 30	21 3.73	− 0 32.6	1.542	2.394	16.6	18.4
7 10	20 59.72	− 0 49.7	1.456	2.375	13.4	18.2
7 20	20 53.54	− 1 32.4	1.390	2.357	9.9	17.9
7 30	20 45.83	− 2 40.7	1.346	2.339	6.9	17.7
8 9	20 37.60	− 4 10.6	1.327	2.321	6.5	17.6
8 19	20 29.97	− 5 54.9	1.333	2.303	9.4	17.8
8 29	20 24.06	− 7 44.6	1.362	2.286	13.3	17.9
9 8	20 20.70	− 9 30.9	1.413	2.270	17.0	18.1

307576 2003 FR_{113} 7 31.7 69°.94 4°.5/30.0 17

6 30	21 15.22	−26 39.3	1.212	2.121	16.4	19.8
7 10	21 8.17	−27 9.0	1.168	2.131	11.9	19.6
7 20	20 58.17	−27 35.7	1.145	2.142	7.2	19.4
7 30	20 46.48	−27 51.6	1.145	2.153	4.5	19.3
8 9	20 34.83	−27 51.3	1.169	2.164	7.1	19.4
8 19	20 24.83	−27 33.3	1.217	2.175	11.6	19.7
8 29	20 17.73	−26 59.8	1.286	2.186	15.7	20.0
9 8	20 14.14	−26 14.3	1.374	2.197	19.2	20.3

32363 2000 QX_{136} 7 31.7 44°.13 0°.5/31.5 18

6 30	21 6.75	−15 36.8	1.314	2.217	15.7	17.4
7 10	21 1.84	−16 35.2	1.271	2.233	11.2	17.2
7 20	20 54.58	−17 44.8	1.249	2.249	6.1	16.9
7 30	20 45.95	−18 58.6	1.251	2.266	0.9	16.6
8 9	20 37.25	−20 8.6	1.278	2.283	4.5	16.9
8 19	20 29.73	−21 8.3	1.330	2.301	9.4	17.3
8 29	20 24.42	−21 54.0	1.404	2.319	13.6	17.5
9 8	20 21.95	−22 24.2	1.498	2.337	17.1	17.8

474636 2004 VE_{63} 7 31.7 291°.07 1°.5/ 1.5 18

6 30	21 8.37	−13 32.2	1.698	2.583	13.8	21.8
7 10	21 3.02	−13 37.1	1.604	2.555	10.2	21.5
7 20	20 55.38	−13 52.3	1.533	2.527	6.1	21.2
7 30	20 46.12	−14 15.4	1.486	2.499	1.9	20.9
8 9	20 36.27	−14 42.7	1.465	2.471	4.0	21.0
8 19	20 26.97	−15 10.3	1.471	2.442	8.6	21.2
8 29	20 19.40	−15 34.6	1.501	2.414	13.0	21.4
9 8	20 14.40	−15 53.0	1.551	2.385	16.9	21.5

136721 1995 UC_{25} 7 31.7 69°.67 2°.0/30.6 17

6 30	21 10.52	−19 49.8	1.363	2.267	15.2	19.6
7 10	21 4.47	−20 44.8	1.323	2.286	10.8	19.4
7 20	20 56.01	−21 45.3	1.304	2.305	5.9	19.2
7 30	20 46.18	−22 43.9	1.311	2.324	2.0	19.0
8 9	20 36.35	−23 33.6	1.342	2.343	5.2	19.2
8 19	20 27.81	−24 10.0	1.399	2.362	9.8	19.5
8 29	20 21.62	−24 31.3	1.478	2.381	13.8	19.8
9 8	20 18.36	−24 38.1	1.576	2.400	17.1	20.1

62966 2000 VB_{45} 7 31.7 150°.45 3°.7/ 4.2 18

6 30	21 4.77	− 2 56.1	2.928	3.753	10.3	20.7
7 10	20 59.41	− 2 55.5	2.857	3.763	8.1	20.5
7 20	20 52.90	− 3 6.3	2.810	3.771	5.8	20.4
7 30	20 45.72	− 3 27.6	2.790	3.780	4.0	20.3
8 9	20 38.44	− 3 57.8	2.799	3.787	4.0	20.3
8 19	20 31.62	− 4 34.3	2.837	3.795	5.7	20.4
8 29	20 25.80	− 5 14.3	2.901	3.801	7.9	20.6
9 8	20 21.39	− 5 54.9	2.990	3.808	10.0	20.7

252794 Maironis 7 31.7 93°.60 7°.2/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 13.24	−40 37.5	2.332	3.202	11.1	20.2
7 10	21 5.88	−41 25.5	2.293	3.216	9.0	20.0
7 20	20 56.59	−42 1.4	2.278	3.229	7.5	20.0
7 30	20 46.26	−42 19.9	2.289	3.243	7.3	20.0
8 9	20 35.98	−42 18.1	2.325	3.256	8.4	20.1
8 19	20 26.78	−41 55.8	2.387	3.270	10.2	20.2
8 29	20 19.51	−41 15.5	2.471	3.283	12.1	20.4
9 8	20 14.69	−40 21.1	2.576	3.296	13.9	20.5

885 Ulrike 7 31.7 329°.22 0°.7/ 1.2 18 R

6 30	21 3.74	−14 23.4	1.791	2.683	12.8	14.9
7 10	20 59.45	−14 48.0	1.713	2.669	9.3	14.6
7 20	20 53.26	−15 22.7	1.658	2.655	5.4	14.4
7 30	20 45.80	−16 4.1	1.628	2.642	1.2	14.0
8 9	20 38.02	−16 47.8	1.624	2.629	3.5	14.2
8 19	20 30.88	−17 29.3	1.645	2.617	7.8	14.4
8 29	20 25.32	−18 4.9	1.692	2.606	11.7	14.6
9 8	20 22.02	−18 32.1	1.759	2.595	15.1	14.8

161361 2003 SS_{165} 7 31.7 253°.72 4°.2/ 3.9 18

6 30	21 5.31	− 3 37.1	2.037	2.884	13.3	20.3
7 10	21 0.37	− 3 56.1	1.951	2.872	10.5	20.1
7 20	20 53.70	− 4 32.3	1.888	2.860	7.3	19.9
7 30	20 45.88	− 5 24.5	1.850	2.847	4.7	19.7
8 9	20 37.71	− 6 29.2	1.838	2.835	4.7	19.7
8 19	20 30.07	− 7 41.7	1.854	2.822	7.5	19.8
8 29	20 23.80	− 8 56.4	1.896	2.809	10.8	20.0
9 8	20 19.52	−10 8.2	1.961	2.795	13.8	20.2

91843 1999 UF_{1} 7 31.7 242°.84 6°.7/25.7 18

6 30	21 10.85	−40 4.0	2.677	3.545	9.8	19.8
7 10	21 4.27	−41 3.7	2.610	3.532	8.1	19.7
7 20	20 55.82	−41 54.3	2.569	3.519	6.9	19.6
7 30	20 46.19	−42 30.5	2.554	3.505	6.8	19.6
8 9	20 36.30	−42 48.4	2.565	3.491	7.9	19.6
8 19	20 27.10	−42 46.7	2.602	3.477	9.7	19.7
8 29	20 19.47	−42 26.2	2.661	3.462	11.6	19.8
9 8	20 14.03	−41 49.8	2.741	3.447	13.4	20.0

371869 2008 CJ_{24} 7 31.7 148°.52 0°.3/31.9 17

6 30	21 10.08	−14 34.5	1.851	2.730	13.0	21.6
7 10	21 3.78	−15 17.1	1.790	2.740	9.4	21.4
7 20	20 55.55	−16 9.0	1.753	2.749	5.3	21.1
7 30	20 46.15	−17 5.6	1.742	2.757	0.9	20.9
8 9	20 36.57	−18 1.6	1.760	2.764	3.5	21.1
8 19	20 27.82	−18 52.4	1.805	2.771	7.7	21.3
8 29	20 20.82	−19 34.6	1.875	2.777	11.4	21.6
9 8	20 16.15	−20 6.6	1.967	2.783	14.5	21.8

519194 2010 PE_{50} 7 31.7 129°.97 6°.9/ 6.6 18

6 30	21 6.44	+ 5 19.6	2.350	3.139	13.6	22.1
7 10	21 0.81	+ 5 34.7	2.285	3.152	11.3	22.0
7 20	20 53.76	+ 5 31.0	2.242	3.166	9.1	21.9
7 30	20 45.87	+ 5 7.9	2.223	3.178	7.4	21.8
8 9	20 37.87	+ 4 27.3	2.230	3.190	7.0	21.8
8 19	20 30.47	+ 3 32.5	2.264	3.202	8.1	21.9
8 29	20 24.34	+ 2 28.2	2.323	3.213	10.0	22.0
9 8	20 19.97	+ 1 19.8	2.406	3.224	12.1	22.2

477931 2011 QX_{58} 7 31.7 19°.44 0°.4/31.9 17

6 30	21 9.26	−17 22.1	1.561	2.456	14.1	20.1
7 10	21 3.42	−17 10.4	1.502	2.460	10.2	19.9
7 20	20 55.42	−17 4.2	1.466	2.464	5.7	19.6
7 30	20 46.14	−17 0.9	1.454	2.469	1.0	19.3
8 9	20 36.74	−16 57.6	1.469	2.474	3.9	19.6
8 19	20 28.37	−16 52.1	1.508	2.480	8.4	19.8
8 29	20 22.03	−16 43.0	1.572	2.486	12.5	20.1
9 8	20 18.31	−16 29.5	1.656	2.493	15.9	20.3

413741 2006 BN_{243} 7 31.7 61°.27 3°.8/30.4 17

6 30	21 15.11	−25 16.4	1.150	2.061	16.9	20.4
7 10	21 8.09	−25 40.3	1.112	2.076	12.1	20.1
7 20	20 58.11	−26 2.5	1.094	2.092	7.1	19.9
7 30	20 46.53	−26 15.6	1.098	2.108	3.8	19.8
8 9	20 35.09	−26 14.4	1.127	2.125	6.7	20.0
8 19	20 25.39	−25 57.6	1.179	2.141	11.3	20.3
8 29	20 18.65	−25 26.8	1.253	2.158	15.6	20.6
9 8	20 15.42	−24 45.4	1.344	2.175	19.2	20.9

362829 2012 AS_{12} 7 31.7 141°.03 4°.1/29.1 18

6 30	21 10.83	−31 23.6	2.453	3.337	10.1	20.3
7 10	21 4.01	−31 44.2	2.393	3.340	7.5	20.2
7 20	20 55.55	−31 59.4	2.359	3.344	5.1	20.0
7 30	20 46.15	−32 5.0	2.352	3.347	4.1	20.0
8 9	20 36.72	−31 58.6	2.373	3.350	5.5	20.0
8 19	20 28.10	−31 39.3	2.422	3.353	7.9	20.2
8 29	20 21.05	−31 8.0	2.495	3.356	10.5	20.4
9 8	20 16.08	−30 26.9	2.591	3.359	12.7	20.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
44229 1998 QH_{22}			7 31.8 322°.11	0°.7/ 1.1 18		
	h m	° ′			°	m
6 30	21 9.70	−16 25.1	1.739	2.627	13.3	18.9
7 10	21 3.66	−16 14.8	1.670	2.624	9.7	18.6
7 20	20 55.55	−16 10.4	1.624	2.621	5.5	18.4
7 30	20 46.18	−16 9.5	1.604	2.618	1.2	18.1
8 9	20 36.60	−16 9.3	1.610	2.615	3.7	18.3
8 19	20 27.88	−16 7.6	1.642	2.612	8.0	18.5
8 29	20 20.99	−16 2.8	1.700	2.610	11.9	18.8
9 8	20 16.57	−15 53.9	1.778	2.608	15.2	19.0
309565 2008 AZ_{25}			7 31.8 317°.15	2°.1/30.7 18		
6 30	21 8.95	−23 15.1	1.820	2.717	12.4	20.2
7 10	21 3.17	−23 27.2	1.748	2.707	8.9	20.0
7 20	20 55.31	−23 39.9	1.699	2.697	5.1	19.7
7 30	20 46.15	−23 49.2	1.676	2.688	2.1	19.5
8 9	20 36.74	−23 51.3	1.680	2.679	4.6	19.7
8 19	20 28.17	−23 44.2	1.710	2.671	8.5	19.9
8 29	20 21.41	−23 27.4	1.764	2.662	12.2	20.1
9 8	20 17.12	−23 1.7	1.839	2.654	15.4	20.3
171741 2000 WX_{119}			7 31.8 206°.26	3°.7/29.6 18		
6 30	21 12.30	−24 53.0	1.669	2.566	13.3	20.3
7 10	21 5.79	−25 47.3	1.604	2.562	9.6	20.1
7 20	20 56.87	−26 42.8	1.563	2.558	5.8	19.9
7 30	20 46.40	−27 32.3	1.547	2.554	3.7	19.7
8 9	20 35.62	−28 9.6	1.557	2.549	6.1	19.9
8 19	20 25.79	−28 31.1	1.594	2.543	10.0	20.1
8 29	20 18.06	−28 35.9	1.654	2.537	13.7	20.3
9 8	20 13.16	−28 25.6	1.733	2.531	16.9	20.5
414410 2009 BJ_{111}			7 31.8 182°.04	3°.0/30.3 17		
6 30	21 13.92	−23 45.0	1.511	2.409	14.4	20.8
7 10	21 7.02	−24 19.0	1.450	2.410	10.3	20.6
7 20	20 57.56	−24 54.2	1.412	2.410	6.0	20.3
7 30	20 46.50	−25 24.0	1.399	2.410	3.0	20.1
8 9	20 35.22	−25 42.9	1.412	2.409	5.7	20.3
8 19	20 25.08	−25 47.9	1.451	2.408	10.1	20.6
8 29	20 17.28	−25 38.7	1.513	2.407	14.1	20.8
9 8	20 12.52	−25 17.3	1.594	2.405	17.5	21.0
123724 2000 YK_{135}			7 31.8 198°.54	5°.7/26.8 18		
6 30	21 11.19	−38 26.7	2.888	3.757	9.2	20.7
7 10	21 4.27	−39 11.4	2.827	3.753	7.4	20.6
7 20	20 55.73	−39 47.7	2.792	3.750	6.0	20.5
7 30	20 46.21	−40 11.3	2.783	3.745	5.8	20.4
8 9	20 36.56	−40 19.1	2.802	3.741	6.8	20.5
8 19	20 27.61	−40 10.3	2.848	3.735	8.6	20.6
8 29	20 20.13	−39 45.7	2.918	3.730	10.4	20.7
9 8	20 14.64	−39 8.0	3.008	3.724	12.2	20.9
480539 2015 MV_{44}			7 31.8 24°.72	3°.3/29.2 18		
6 30	21 5.96	−23 57.6	1.862	2.763	11.9	20.1
7 10	21 1.00	−25 9.2	1.805	2.766	8.5	19.9
7 20	20 54.09	−26 23.0	1.772	2.769	5.1	19.7
7 30	20 45.98	−27 32.3	1.766	2.773	3.4	19.6
8 9	20 37.65	−28 31.0	1.786	2.777	5.6	19.7
8 19	20 30.11	−29 15.0	1.832	2.781	9.0	19.9
8 29	20 24.28	−29 42.6	1.902	2.785	12.3	20.2
9 8	20 20.78	−29 54.2	1.993	2.789	15.0	20.4
442004 2010 OJ_{20}			7 31.8 243°.76	4°.8/ 4.8 18		
6 30	21 3.95	− 0 48.5	2.500	3.325	11.8	21.1
7 10	20 59.12	− 0 46.2	2.414	3.316	9.5	20.9
7 20	20 52.90	− 0 58.6	2.351	3.306	7.1	20.8
7 30	20 45.80	− 1 25.5	2.313	3.297	5.2	20.6
8 9	20 38.46	− 2 5.0	2.303	3.287	5.1	20.6
8 19	20 31.57	− 2 54.2	2.320	3.277	6.8	20.7
8 29	20 25.77	− 3 49.1	2.363	3.267	9.3	20.9
9 8	20 21.58	− 4 45.6	2.430	3.257	11.7	21.0
325045 2008 CW_{136}			7 31.8 121°.09	0°.6/ 1.1 17		
6 30	21 10.45	−14 32.0	1.628	2.514	14.2	22.0
7 10	21 4.21	−15 0.1	1.572	2.525	10.2	21.8
7 20	20 55.86	−15 37.9	1.539	2.536	5.8	21.5
7 30	20 46.26	−16 21.2	1.532	2.546	1.2	21.2
8 9	20 36.52	−17 4.6	1.551	2.556	3.8	21.4
8 19	20 27.76	−17 43.9	1.596	2.566	8.2	21.7
8 29	20 20.97	−18 15.6	1.666	2.575	12.2	22.0
9 8	20 16.75	−18 38.2	1.757	2.584	15.5	22.2
378697 2008 LS			7 31.8 220°.67	4°.1/29.3 18		
6 30	21 10.37	−25 24.5	1.548	2.451	13.8	20.8
7 10	21 4.52	−26 26.0	1.489	2.450	10.0	20.6
7 20	20 56.20	−27 28.4	1.453	2.449	6.1	20.3
7 30	20 46.32	−28 23.8	1.442	2.448	4.2	20.2
8 9	20 36.16	−29 5.6	1.457	2.447	6.6	20.4
8 19	20 27.04	−29 29.8	1.497	2.446	10.5	20.6
8 29	20 20.11	−29 35.6	1.559	2.445	14.2	20.8
9 8	20 16.09	−29 24.9	1.640	2.444	17.4	21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V
234213 2000 SH_{63}			7 31.8 276°.72	3°.2/29.8 18		
	h m	° ′			°	m
6 30	21 10.61	−24 31.9	1.843	2.737	12.3	21.0
7 10	21 4.63	−25 16.8	1.754	2.711	9.0	20.7
7 20	20 56.32	−26 4.0	1.689	2.685	5.4	20.4
7 30	20 46.37	−26 47.3	1.650	2.658	3.2	20.2
8 9	20 35.85	−27 21.0	1.638	2.630	5.7	20.3
8 19	20 25.96	−27 41.1	1.652	2.603	9.6	20.5
8 29	20 17.87	−27 46.0	1.690	2.574	13.4	20.7
9 8	20 12.40	−27 36.5	1.748	2.546	16.8	20.8
374778 2006 TC_{2}			7 31.8 323°.00	2°.2/30.7 17		
6 30	21 6.24	−20 21.2	1.145	2.063	16.3	20.2
7 10	21 2.29	−20 57.1	1.072	2.042	11.8	19.9
7 20	20 55.33	−21 41.4	1.019	2.022	6.7	19.6
7 30	20 46.23	−22 27.4	0.988	2.002	2.2	19.2
8 9	20 36.48	−23 7.2	0.980	1.983	6.0	19.4
8 19	20 27.71	−23 34.3	0.994	1.965	11.6	19.7
8 29	20 21.49	−23 45.5	1.028	1.949	16.8	19.9
9 8	20 18.80	−23 40.4	1.078	1.933	21.3	20.1
39458 4198 $T\text{-}_{3}$			7 31.8 149°.96	5°.1/ 5.7 18		
6 30	21 3.70	+ 1 52.4	2.673	3.480	11.6	19.4
7 10	20 58.80	+ 1 46.0	2.599	3.486	9.5	19.2
7 20	20 52.66	+ 1 24.1	2.548	3.491	7.3	19.1
7 30	20 45.78	+ 0 47.2	2.523	3.497	5.5	19.0
8 9	20 38.76	− 0 2.6	2.525	3.502	5.2	19.0
8 19	20 32.21	− 1 2.2	2.554	3.506	6.6	19.1
8 29	20 26.71	− 2 7.3	2.611	3.511	8.7	19.2
9 8	20 22.72	− 3 13.8	2.691	3.515	10.8	19.4
288164 2003 WY_{149}			7 31.8 252°.17	0°.0/31.7 18		
6 30	21 9.86	−15 30.3	1.703	2.590	13.6	21.9
7 10	21 4.08	−16 6.9	1.619	2.573	9.9	21.6
7 20	20 56.00	−16 53.9	1.558	2.555	5.6	21.4
7 30	20 46.33	−17 47.0	1.523	2.537	0.9	21.0
8 9	20 36.14	−18 40.4	1.514	2.519	4.0	21.2
8 19	20 26.61	−19 28.9	1.532	2.500	8.7	21.4
8 29	20 18.89	−20 8.6	1.575	2.480	13.0	21.6
9 8	20 13.78	−20 37.3	1.638	2.460	16.7	21.8
452141 2015 QY_{10}			7 31.8 268°.49	0°.4/31.5 18		
6 30	21 7.76	−18 57.3	2.244	3.129	10.9	21.2
7 10	21 2.01	−19 4.7	2.164	3.117	7.8	21.0
7 20	20 54.59	−19 15.6	2.108	3.106	4.3	20.8
7 30	20 46.10	−19 27.2	2.080	3.095	0.7	20.5
8 9	20 37.37	−19 36.6	2.080	3.083	3.3	20.7
8 19	20 29.26	−19 41.8	2.107	3.071	6.9	20.9
8 29	20 22.54	−19 41.2	2.160	3.060	10.2	21.1
9 8	20 17.81	−19 34.5	2.236	3.048	13.1	21.2
183360 2002 VN_{140}			7 31.8 271°.65	0°.5/31.5 18		
6 30	21 6.83	−17 36.9	1.970	2.859	11.9	20.7
7 10	21 1.53	−18 5.5	1.898	2.853	8.6	20.5
7 20	20 54.38	−18 40.4	1.849	2.847	4.7	20.2
7 30	20 46.07	−19 17.8	1.826	2.841	0.8	19.9
8 9	20 37.51	−19 53.3	1.830	2.834	3.6	20.1
8 19	20 29.62	−20 23.5	1.862	2.828	7.5	20.3
8 29	20 23.28	−20 45.7	1.918	2.821	11.1	20.6
9 8	20 19.12	−20 59.0	1.996	2.815	14.2	20.8
60157 1999 UT_{23}			7 31.8 181°.59	5°.5/ 5.8 18		
6 30	21 4.35	+ 3 12.2	2.942	3.735	11.0	19.5
7 10	20 59.19	+ 3 27.9	2.863	3.736	9.1	19.4
7 20	20 52.87	+ 3 29.5	2.806	3.736	7.2	19.2
7 30	20 45.84	+ 3 16.8	2.774	3.736	5.8	19.1
8 9	20 38.64	+ 2 50.9	2.770	3.735	5.6	19.1
8 19	20 31.86	+ 2 13.9	2.794	3.734	6.6	19.2
8 29	20 26.04	+ 1 28.9	2.844	3.733	8.4	19.3
9 8	20 21.61	+ 0 39.7	2.918	3.731	10.3	19.4
355751 2008 JO_{22}			7 31.8 22°.28	12°.3/27.9 17		
6 30	21 24.06	−50 51.4	1.662	2.507	15.9	19.2
7 10	21 14.27	−51 17.4	1.629	2.518	14.0	19.1
7 20	21 1.37	−51 17.7	1.617	2.530	12.6	19.0
7 30	20 47.07	−50 44.7	1.627	2.543	12.3	19.0
8 9	20 33.42	−49 36.7	1.659	2.557	13.1	19.1
8 19	20 22.12	−47 57.9	1.713	2.572	14.7	19.2
8 29	20 14.26	−45 56.3	1.788	2.587	16.5	19.4
9 8	20 10.17	−43 40.9	1.883	2.604	18.3	19.6
79738 1998 ST_{138}			7 31.8 312°.75	5°.7/29.2 18	R	
6 30	21 11.35	−28 56.3	1.344	2.253	15.0	18.5
7 10	21 5.70	−29 39.1	1.277	2.238	11.2	18.3
7 20	20 57.09	−30 18.6	1.231	2.224	7.4	18.0
7 30	20 46.52	−30 46.4	1.208	2.210	5.7	17.9
8 9	20 35.51	−30 55.7	1.210	2.197	8.1	18.0
8 19	20 25.67	−30 43.6	1.234	2.184	12.2	18.2
8 29	20 18.41	−30 11.0	1.280	2.172	16.3	18.4
9 8	20 14.58	−29 21.9	1.343	2.160	19.9	18.6

152518 2006 BH_{47} 7 31.8 309°.22 0°.5/31.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 5.17	−17 26.7	2.048	2.937	11.5	20.5
7 10	21 0.31	−17 59.3	1.973	2.929	8.3	20.3
7 20	20 53.71	−18 38.5	1.922	2.921	4.6	20.0
7 30	20 46.00	−19 20.3	1.898	2.913	0.7	19.7
8 9	20 38.03	−20 0.6	1.901	2.905	3.5	19.9
8 19	20 30.68	−20 35.7	1.931	2.897	7.3	20.2
8 29	20 24.78	−21 3.0	1.986	2.890	10.8	20.4
9 8	20 20.93	−21 21.0	2.063	2.882	13.8	20.6

331758 2002 XH_{9} 7 31.8 304°.99 3°.1/30.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 8.01	−22 2.0	1.383	2.292	14.7	20.4
7 10	21 3.19	−23 0.1	1.312	2.278	10.6	20.1
7 20	20 55.68	−24 4.6	1.263	2.263	6.1	19.9
7 30	20 46.33	−25 7.8	1.237	2.248	3.1	19.6
8 9	20 36.46	−26 1.6	1.236	2.234	6.2	19.8
8 19	20 27.50	−26 40.2	1.259	2.220	10.9	20.0
8 29	20 20.78	−27 0.7	1.304	2.207	15.3	20.2
9 8	20 17.19	−27 3.6	1.367	2.193	19.2	20.5

514434 2016 UK_{22} 7 31.8 301°.06 3°.9/29.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 7.88	−25 28.2	1.743	2.645	12.6	20.9
7 10	21 2.62	−26 26.7	1.675	2.636	9.1	20.6
7 20	20 55.14	−27 26.4	1.631	2.626	5.6	20.4
7 30	20 46.23	−28 20.5	1.612	2.617	3.9	20.3
8 9	20 36.98	−29 3.0	1.619	2.608	6.1	20.4
8 19	20 28.53	−29 30.0	1.651	2.600	9.8	20.6
8 29	20 21.97	−29 40.0	1.707	2.591	13.3	20.8
9 8	20 18.00	−29 34.2	1.782	2.583	16.4	21.0

171151 2005 GD_{75} 7 31.8 19°.02 4°.5/29.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 9.01	−27 42.7	1.608	2.512	13.3	19.3
7 10	21 3.40	−28 24.8	1.556	2.516	9.7	19.1
7 20	20 55.51	−29 4.2	1.526	2.520	6.2	18.9
7 30	20 46.27	−29 34.5	1.521	2.524	4.5	18.8
8 9	20 36.90	−29 50.6	1.541	2.529	6.6	19.0
8 19	20 28.62	−29 50.3	1.586	2.534	10.1	19.2
8 29	20 22.45	−29 33.9	1.653	2.540	13.5	19.4
9 8	20 19.02	−29 3.8	1.741	2.546	16.5	19.6

336309 2008 TX_{27} 7 31.8 151°.10 2°.3/30.5 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 12.31	−24 0.5	2.015	2.902	11.8	21.4
7 10	21 5.32	−24 21.9	1.955	2.909	8.4	21.2
7 20	20 56.41	−24 42.9	1.919	2.915	4.8	21.0
7 30	20 46.40	−24 59.4	1.911	2.921	2.4	20.8
8 9	20 36.30	−25 7.6	1.930	2.927	4.5	21.0
8 19	20 27.11	−25 6.0	1.977	2.932	8.0	21.2
8 29	20 19.69	−24 54.1	2.050	2.936	11.3	21.4
9 8	20 14.63	−24 33.2	2.143	2.940	14.1	21.6

327834 2006 WT_{70} 7 31.8 37°.97 5°.0/29.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 10.85	−26 47.5	1.313	2.224	15.2	20.4
7 10	21 5.08	−27 43.2	1.266	2.230	11.1	20.1
7 20	20 56.58	−28 37.3	1.240	2.236	7.0	19.9
7 30	20 46.45	−29 21.3	1.237	2.242	5.0	19.8
8 9	20 36.17	−29 48.4	1.259	2.249	7.4	20.0
8 19	20 27.23	−29 55.5	1.304	2.256	11.5	20.2
8 29	20 20.85	−29 43.2	1.371	2.264	15.4	20.5
9 8	20 17.70	−29 14.7	1.456	2.272	18.7	20.8

478878 2012 VA_{106} 7 31.8 229°.91 2°.1/ 2.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 7.30	−10 42.5	2.094	2.962	12.2	21.9
7 10	21 1.76	−10 49.5	2.015	2.955	9.1	21.7
7 20	20 54.50	−11 6.9	1.959	2.947	5.6	21.5
7 30	20 46.14	−11 32.6	1.930	2.940	2.5	21.2
8 9	20 37.51	−12 3.7	1.928	2.932	3.5	21.3
8 19	20 29.48	−12 36.9	1.954	2.924	7.0	21.5
8 29	20 22.87	−13 8.9	2.006	2.915	10.4	21.7
9 8	20 18.28	−13 37.0	2.080	2.906	13.5	21.9

172672 2003 YV_{125} 7 31.8 265°.77 7°.6/26.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 11.69	−37 1.9	1.962	2.848	12.1	20.0
7 10	21 5.45	−38 20.6	1.897	2.835	9.7	19.8
7 20	20 56.78	−39 31.1	1.856	2.821	8.0	19.7
7 30	20 46.50	−40 25.3	1.840	2.807	7.8	19.6
8 9	20 35.82	−40 57.3	1.849	2.793	9.3	19.7
8 19	20 26.01	−41 4.5	1.883	2.779	11.8	19.8
8 29	20 18.24	−40 48.0	1.938	2.765	14.4	20.0
9 8	20 13.28	−40 11.7	2.012	2.750	16.8	20.1

90650 1112 $T\text{-}_{3}$ 7 31.8 17°.90 9°.2/ 6.0 16

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 6.23	+ 3 41.4	1.589	2.415	17.4	19.4
7 10	21 1.31	+ 4 35.4	1.526	2.417	14.6	19.3
7 20	20 54.36	+ 5 5.9	1.482	2.420	11.8	19.1
7 30	20 46.13	+ 5 10.4	1.460	2.424	9.7	19.0
8 9	20 37.65	+ 4 49.6	1.461	2.428	9.3	19.0
8 19	20 29.98	+ 4 7.1	1.486	2.432	10.8	19.1
8 29	20 24.09	+ 3 9.1	1.533	2.437	13.4	19.2
9 8	20 20.63	+ 2 3.2	1.600	2.443	16.1	19.4

231814 2000 GT_{74} 7 31.8 13°.08 3°.4/ 2.6 15

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	20 58.37	−10 9.3	0.910	1.831	19.2	18.7
7 10	20 56.38	−10 11.1	0.878	1.844	14.2	18.5
7 20	20 51.79	−10 34.1	0.863	1.860	8.9	18.2
7 30	20 45.72	−11 14.1	0.868	1.879	4.1	18.0
8 9	20 39.64	−12 4.0	0.894	1.901	5.1	18.2
8 19	20 34.91	−12 55.8	0.940	1.925	10.0	18.5
8 29	20 32.59	−13 42.5	1.006	1.951	14.6	18.9
9 8	20 33.21	−14 19.1	1.091	1.980	18.5	19.2

262581 2006 VU_{73} 7 31.8 260°.40 0°.3/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 9.04	−15 17.3	1.628	2.517	14.0	21.3
7 10	21 3.52	−15 45.7	1.550	2.505	10.2	21.0
7 20	20 55.70	−16 24.3	1.495	2.492	5.8	20.7
7 30	20 46.35	−17 9.0	1.464	2.479	1.0	20.4
8 9	20 36.56	−17 54.5	1.461	2.466	4.0	20.5
8 19	20 27.52	−18 35.9	1.483	2.452	8.7	20.8
8 29	20 20.35	−19 9.3	1.529	2.439	13.0	21.0
9 8	20 15.83	−19 32.7	1.595	2.425	16.7	21.2

69591 1998 EV_{13} 7 31.8 115°.28 2°.2/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 12.80	−21 25.9	1.565	2.461	14.1	18.9
7 10	21 6.02	−22 9.1	1.516	2.475	10.0	18.7
7 20	20 56.94	−22 55.5	1.490	2.488	5.6	18.5
7 30	20 46.53	−23 38.9	1.489	2.502	2.2	18.3
8 9	20 36.03	−24 13.4	1.515	2.514	5.0	18.5
8 19	20 26.70	−24 35.7	1.567	2.526	9.3	18.8
8 29	20 19.55	−24 44.7	1.642	2.538	13.1	19.1
9 8	20 15.22	−24 41.3	1.738	2.549	16.3	19.3

400944 2010 VF_{64} 7 31.8 117°.68 3°.2/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 6.11	−25 55.3	2.347	3.240	10.1	20.4
7 10	21 0.83	−26 52.4	2.286	3.242	7.3	20.2
7 20	20 53.95	−27 49.2	2.251	3.244	4.5	20.0
7 30	20 46.08	−28 40.9	2.243	3.247	3.2	19.9
8 9	20 38.03	−29 23.1	2.263	3.249	5.0	20.1
8 19	20 30.62	−29 53.0	2.309	3.251	7.8	20.2
8 29	20 24.61	−30 9.6	2.381	3.253	10.5	20.4
9 8	20 20.53	−30 13.4	2.474	3.255	12.9	20.6

494424 2016 UK_{82} 7 31.8 234°.93 2°.8/ 2.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 6.20	− 8 55.6	2.097	2.961	12.3	21.6
7 10	21 0.94	− 8 56.6	2.023	2.959	9.3	21.4
7 20	20 54.03	− 9 8.9	1.972	2.956	6.0	21.2
7 30	20 46.10	− 9 31.1	1.947	2.953	3.2	21.0
8 9	20 37.96	−10 0.4	1.949	2.950	3.8	21.1
8 19	20 30.42	−10 33.6	1.978	2.947	6.9	21.2
8 29	20 24.28	−11 7.2	2.033	2.944	10.2	21.4
9 8	20 20.09	−11 38.3	2.110	2.941	13.1	21.6

428226 2006 WW_{47} 7 31.8 166°.96 1°.4/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 11.23	−20 8.0	1.858	2.746	12.6	22.5
7 10	21 4.73	−20 42.6	1.795	2.750	9.0	22.3
7 20	20 56.20	−21 21.3	1.755	2.754	5.0	22.0
7 30	20 46.44	−21 59.1	1.743	2.757	1.5	21.8
8 9	20 36.48	−22 31.5	1.758	2.759	4.2	22.0
8 19	20 27.38	−22 55.0	1.800	2.761	8.2	22.3
8 29	20 20.10	−23 8.1	1.867	2.762	11.8	22.5
9 8	20 15.26	−23 10.7	1.955	2.763	14.9	22.7

78848 2003 QH_{61} 7 31.8 239°.30 2°.6/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 6.47	− 7 4.8	2.371	3.222	11.6	19.9
7 10	21 1.11	− 7 35.9	2.278	3.206	8.8	19.7
7 20	20 54.15	− 8 20.3	2.208	3.189	5.7	19.5
7 30	20 46.13	− 9 16.0	2.166	3.172	3.0	19.3
8 9	20 37.76	−10 19.6	2.152	3.154	3.5	19.3
8 19	20 29.81	−11 26.7	2.167	3.135	6.5	19.5
8 29	20 23.04	−12 33.0	2.209	3.116	9.7	19.6
9 8	20 18.05	−13 34.7	2.275	3.096	12.6	19.8

93108 2000 SA_{50} 7 31.8 197°.39 0°.8/ 1.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 9.58	−14 46.2	2.094	2.970	11.9	20.1
7 10	21 3.38	−14 58.4	2.020	2.967	8.6	19.9
7 20	20 55.41	−15 17.8	1.970	2.964	5.0	19.7
7 30	20 46.32	−15 41.6	1.947	2.960	1.2	19.4
8 9	20 37.01	−16 6.6	1.952	2.956	3.2	19.5
8 19	20 28.37	−16 29.7	1.984	2.952	7.0	19.8
8 29	20 21.24	−16 48.5	2.043	2.947	10.6	20.0
9 8	20 16.22	−17 1.6	2.124	2.941	13.6	20.2

70465 1999 TS_{30} 7 31.8 9°.03 0°.6/ 1.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 7.21	−15 18.2	1.493	2.389	14.6	19.1
7 10	21 2.16	−15 31.5	1.432	2.390	10.6	18.8
7 20	20 54.89	−15 54.4	1.393	2.391	6.0	18.6
7 30	20 46.25	−16 23.0	1.379	2.393	1.3	18.3
8 9	20 37.40	−16 52.8	1.389	2.395	3.9	18.5
8 19	20 29.49	−17 19.5	1.425	2.398	8.6	18.8
8 29	20 23.59	−17 40.0	1.484	2.401	12.8	19.0
9 8	20 20.33	−17 52.3	1.563	2.405	16.4	19.3

313378 2002 KT_{13} 7 31.8 40°.43 5°.8/28.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 9.92	−26 30.7	1.094	2.014	16.8	20.1
7 10	21 4.68	−27 50.5	1.060	2.028	12.1	19.9
7 20	20 56.45	−29 8.5	1.046	2.043	7.7	19.7
7 30	20 46.48	−30 13.7	1.054	2.059	5.8	19.6
8 9	20 36.50	−30 57.6	1.086	2.075	8.5	19.8
8 19	20 28.12	−31 16.5	1.139	2.092	12.7	20.1
8 29	20 22.62	−31 11.7	1.212	2.109	16.7	20.4
9 8	20 20.60	−30 46.9	1.302	2.127	20.0	20.7

479648 2014 DW_{57} 7 31.8 156°.07 1°.1/31.1 18

6 30	21 6.95	−18 31.4	1.925	2.816	12.1	21.4
7 10	21 1.65	−19 16.3	1.860	2.817	8.6	21.2
7 20	20 54.50	−20 7.3	1.818	2.817	4.7	21.0
7 30	20 46.19	−20 59.7	1.804	2.818	1.1	20.7
8 9	20 37.67	−21 48.2	1.816	2.818	3.9	20.9
8 19	20 29.87	−22 29.0	1.855	2.819	7.8	21.1
8 29	20 23.68	−22 59.4	1.920	2.819	11.3	21.4
9 8	20 19.70	−23 18.5	2.005	2.819	14.3	21.6

422707 2000 SX_{128} 7 31.8 277°.04 14°.2/ 4.8 18

6 30	21 12.22	+12 8.2	1.675	2.438	19.2	20.4
7 10	21 6.10	+14 2.2	1.579	2.408	17.4	20.2
7 20	20 57.40	+15 34.3	1.502	2.379	15.6	20.0
7 30	20 46.71	+16 36.6	1.445	2.348	14.4	19.9
8 9	20 35.08	+17 3.9	1.409	2.317	14.3	19.8
8 19	20 23.78	+16 54.7	1.395	2.285	15.5	19.8
8 29	20 14.15	+16 12.7	1.402	2.253	17.6	19.8
9 8	20 7.24	+15 6.2	1.426	2.221	20.0	19.9

510163 2010 XJ_{77} 7 31.8 335°.74 6°.8/ 5.2 18

6 30	21 5.19	+ 1 50.8	2.214	3.029	13.5	20.5
7 10	21 0.16	+ 2 32.5	2.138	3.026	11.2	20.3
7 20	20 53.59	+ 2 57.9	2.084	3.023	8.9	20.2
7 30	20 46.06	+ 3 5.8	2.054	3.020	7.1	20.1
8 9	20 38.30	+ 2 56.6	2.049	3.018	6.9	20.1
8 19	20 31.08	+ 2 32.5	2.071	3.015	8.3	20.2
8 29	20 25.14	+ 1 57.2	2.117	3.013	10.6	20.3
9 8	20 21.02	+ 1 15.4	2.185	3.011	12.9	20.4

374876 2006 VC_{128} 7 31.8 15°.60 1°.1/ 1.2 17

6 30	21 9.62	−15 43.9	1.236	2.139	16.5	20.7
7 10	21 4.18	−15 35.5	1.181	2.142	12.0	20.4
7 20	20 56.12	−15 36.5	1.146	2.145	6.9	20.2
7 30	20 46.45	−15 43.6	1.134	2.148	1.6	19.8
8 9	20 36.59	−15 52.9	1.146	2.152	4.5	20.1
8 19	20 27.96	−16 0.6	1.181	2.157	9.7	20.4
8 29	20 21.75	−16 4.1	1.239	2.162	14.4	20.7
9 8	20 18.66	−16 1.7	1.315	2.168	18.3	20.9

316503 2010 VN_{117} 7 31.8 164°.11 4°.5/ 4.1 18

6 30	21 5.70	− 2 47.5	2.615	3.443	11.3	20.4
7 10	21 0.29	− 2 23.0	2.540	3.445	9.0	20.2
7 20	20 53.57	− 2 10.3	2.488	3.447	6.6	20.1
7 30	20 46.06	− 2 9.5	2.463	3.449	4.8	20.0
8 9	20 38.40	− 2 19.5	2.466	3.451	4.8	20.0
8 19	20 31.24	− 2 38.3	2.496	3.452	6.5	20.1
8 29	20 25.18	− 3 3.1	2.553	3.453	8.9	20.2
9 8	20 20.71	− 3 30.8	2.634	3.454	11.1	20.4

22346 Katsumatatakashi 7 31.8 299°.19 7°.3/28.5 18

6 30	21 14.07	−32 11.4	1.343	2.247	15.3	17.5
7 10	21 7.99	−33 1.8	1.267	2.223	11.8	17.3
7 20	20 58.60	−33 46.2	1.212	2.199	8.5	17.0
7 30	20 46.89	−34 14.7	1.180	2.175	7.3	16.9
8 9	20 34.50	−34 19.2	1.172	2.151	9.6	16.9
8 19	20 23.23	−33 56.6	1.187	2.127	13.6	17.1
8 29	20 14.74	−33 8.7	1.222	2.103	17.7	17.3
9 8	20 10.02	−32 1.3	1.274	2.080	21.4	17.5

123493 2000 WU_{171} 7 31.8 273°.83 2°.1/30.2 18

6 30	21 7.05	−19 6.4	1.720	2.617	12.9	19.3
7 10	21 2.08	−20 27.8	1.647	2.607	9.2	19.1
7 20	20 54.93	−21 58.2	1.598	2.597	5.2	18.8
7 30	20 46.30	−23 30.7	1.575	2.587	2.1	18.6
8 9	20 37.23	−24 57.3	1.579	2.577	5.0	18.8
8 19	20 28.84	−26 11.4	1.609	2.567	9.2	19.0
8 29	20 22.22	−27 8.9	1.664	2.557	13.1	19.2
9 8	20 18.13	−27 48.7	1.738	2.547	16.4	19.4

19438 Khaki 7 31.8 307°.59 0°.5/31.5 18

6 30	21 8.04	−16 11.2	1.339	2.241	15.6	17.7
7 10	21 3.13	−16 59.0	1.273	2.235	11.2	17.5
7 20	20 55.62	−17 58.9	1.229	2.229	6.3	17.2
7 30	20 46.41	−19 4.9	1.209	2.223	1.0	16.8
8 9	20 36.79	−20 9.1	1.213	2.218	4.7	17.1
8 19	20 28.13	−21 4.9	1.242	2.213	9.9	17.3
8 29	20 21.69	−21 47.7	1.293	2.208	14.6	17.6
9 8	20 18.29	−22 15.6	1.363	2.203	18.5	17.8

282252 2002 GJ_{183} 7 31.8 277°.21 3°.2/29.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 7.15	−26 2.1	2.252	3.145	10.5	20.2
7 10	21 1.72	−26 44.9	2.177	3.133	7.6	20.0
7 20	20 54.54	−27 27.6	2.127	3.122	4.7	19.8
7 30	20 46.23	−28 5.3	2.105	3.110	3.2	19.7
8 9	20 37.66	−28 33.9	2.109	3.098	5.0	19.8
8 19	20 29.71	−28 50.7	2.141	3.086	8.1	20.0
8 29	20 23.21	−28 54.7	2.197	3.074	11.0	20.1
9 8	20 18.77	−28 46.5	2.274	3.062	13.7	20.3

309633 2008 CH_{152} 7 31.8 95°.84 1°.2/ 1.7 18

6 30	21 6.61	−13 11.2	2.171	3.045	11.6	21.0
7 10	21 1.13	−13 22.1	2.108	3.054	8.4	20.8
7 20	20 54.09	−13 41.0	2.070	3.063	4.9	20.6
7 30	20 46.15	−14 5.5	2.059	3.071	1.6	20.4
8 9	20 38.10	−14 32.4	2.075	3.080	3.0	20.5
8 19	20 30.73	−14 58.8	2.119	3.088	6.5	20.8
8 29	20 24.76	−15 22.1	2.189	3.097	9.7	21.0
9 8	20 20.70	−15 40.6	2.281	3.105	12.5	21.2

510884 2013 CQ_{143} 7 31.8 140°.51 0°.5/31.4 18

6 30	21 7.65	−18 50.4	2.365	3.247	10.5	22.0
7 10	21 1.80	−19 6.3	2.300	3.253	7.5	21.8
7 20	20 54.45	−19 25.6	2.261	3.258	4.1	21.6
7 30	20 46.22	−19 45.4	2.248	3.263	0.7	21.4
8 9	20 37.87	−20 2.8	2.265	3.268	3.1	21.6
8 19	20 30.17	−20 15.6	2.309	3.273	6.5	21.8
8 29	20 23.84	−20 22.4	2.380	3.277	9.5	22.0
9 8	20 19.37	−20 22.7	2.473	3.281	12.1	22.2

277691 2006 CW_{3} 7 31.8 34°.32 2°.0/ 2.2 17

6 30	21 4.86	− 9 18.3	1.398	2.286	15.9	19.8
7 10	21 0.52	−10 13.8	1.346	2.296	11.7	19.6
7 20	20 54.01	−11 27.7	1.314	2.307	7.1	19.3
7 30	20 46.16	−12 54.7	1.306	2.318	2.6	19.1
8 9	20 38.13	−14 26.7	1.324	2.330	4.0	19.2
8 19	20 31.07	−15 55.6	1.367	2.343	8.6	19.5
8 29	20 25.99	−17 14.7	1.433	2.355	12.9	19.8
9 8	20 23.53	−18 19.9	1.520	2.369	16.4	20.1

361928 2008 GC_{134} 7 31.8 298°.40 0°.2/31.7 18

6 30	21 4.33	−15 35.1	2.174	3.059	11.1	20.7
7 10	20 59.67	−16 25.3	2.099	3.052	8.0	20.5
7 20	20 53.39	−17 24.0	2.048	3.046	4.5	20.3
7 30	20 46.07	−18 26.9	2.024	3.039	0.7	20.0
8 9	20 38.48	−19 29.4	2.028	3.033	3.2	20.2
8 19	20 31.44	−20 27.1	2.060	3.026	6.9	20.4
8 29	20 25.72	−21 16.4	2.118	3.020	10.3	20.6
9 8	20 21.92	−21 55.4	2.197	3.014	13.2	20.8

395665 2011 WV_{89} 7 31.8 264°.30 1°.3/30.8 18

6 30	21 5.63	−18 48.0	2.137	3.027	11.1	20.6
7 10	21 0.65	−19 43.3	2.064	3.020	7.9	20.4
7 20	20 53.96	−20 44.8	2.015	3.014	4.4	20.2
7 30	20 46.16	−21 47.6	1.993	3.007	1.3	20.0
8 9	20 38.08	−22 46.9	1.999	3.000	3.8	20.1
8 19	20 30.58	−23 38.1	2.033	2.993	7.4	20.4
8 29	20 24.48	−24 18.6	2.092	2.986	10.8	20.6
9 8	20 20.40	−24 47.2	2.173	2.979	13.6	20.7

60182 1999 VS_{10} 7 31.8 270°.57 1°.9/30.6 18

6 30	21 8.63	−19 2.8	1.516	2.416	14.2	17.6
7 10	21 3.45	−20 6.2	1.444	2.405	10.2	17.4
7 20	20 55.79	−21 18.8	1.394	2.394	5.7	17.1
7 30	20 46.47	−22 33.7	1.369	2.383	1.9	16.8
8 9	20 36.66	−23 43.0	1.371	2.371	5.2	17.0
8 19	20 27.66	−24 40.4	1.397	2.360	9.9	17.2
8 29	20 20.70	−25 21.9	1.447	2.348	14.2	17.5
9 8	20 16.59	−25 46.8	1.516	2.337	17.8	17.7

318397 2004 XP_{82} 7 31.8 274°.08 1°.1/31.1 18

6 30	21 8.93	−19 20.1	1.822	2.714	12.6	21.2
7 10	21 3.35	−19 49.7	1.739	2.696	9.1	21.0
7 20	20 55.62	−20 25.1	1.679	2.678	5.1	20.7
7 30	20 46.44	−21 1.7	1.645	2.659	1.2	20.4
8 9	20 36.83	−21 34.8	1.638	2.641	4.2	20.6
8 19	20 27.87	−22 0.4	1.658	2.622	8.5	20.8
8 29	20 20.63	−22 16.2	1.702	2.603	12.4	21.0
9 8	20 15.85	−22 21.4	1.766	2.584	15.8	21.2

509767 2008 UQ_{46} 7 31.8 237°.57 2°.5/30.2 18

6 30	21 9.91	−23 38.0	2.029	2.920	11.5	22.1
7 10	21 3.84	−24 15.4	1.954	2.910	8.3	21.9
7 20	20 55.78	−24 54.2	1.903	2.900	4.8	21.6
7 30	20 46.45	−25 29.6	1.879	2.889	2.5	21.4
8 9	20 36.82	−25 56.9	1.883	2.878	4.8	21.6
8 19	20 27.90	−26 13.3	1.913	2.866	8.3	21.8
8 29	20 20.62	−26 17.5	1.969	2.855	11.7	22.0
9 8	20 15.65	−26 10.1	2.045	2.843	14.7	22.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
210336 2007 TT_{380}			7 31.8 230.°23		1.°6/ 1.9 18	
	h m	° ′			°	m
6 30	21 6.62	−11 48.9	2.047	2.921	12.2	20.9
7 10	21 1.34	−12 8.3	1.972	2.916	9.0	20.7
7 20	20 54.34	−12 38.0	1.920	2.912	5.4	20.5
7 30	20 46.24	−13 15.3	1.895	2.907	2.0	20.2
8 9	20 37.88	−13 56.7	1.897	2.901	3.3	20.3
8 19	20 30.14	−14 38.2	1.926	2.896	7.0	20.6
8 29	20 23.84	−15 16.4	1.981	2.891	10.5	20.8
9 8	20 19.58	−15 48.6	2.058	2.885	13.6	21.0
396057 2013 CM_{49}			7 31.8 46.°26		2.°1/ 2.7 18	
6 30	21 4.20	− 7 57.8	2.001	2.867	12.8	20.6
7 10	20 59.60	− 8 52.4	1.933	2.871	9.5	20.4
7 20	20 53.36	−10 2.1	1.889	2.876	5.9	20.2
7 30	20 46.10	−11 23.0	1.871	2.881	2.6	20.0
8 9	20 38.62	−12 49.8	1.882	2.886	3.4	20.1
8 19	20 31.77	−14 16.5	1.919	2.891	6.9	20.3
8 29	20 26.33	−15 37.6	1.983	2.897	10.3	20.6
9 8	20 22.86	−16 49.2	2.070	2.902	13.3	20.8
171138 2005 GX_{54}			7 31.8 168.°29		3.°9/ 3.8 16	
6 30	21 6.30	− 4 42.3	2.171	3.017	12.7	21.1
7 10	21 0.97	− 4 50.2	2.099	3.019	9.8	20.9
7 20	20 54.08	− 5 12.5	2.049	3.022	6.8	20.8
7 30	20 46.21	− 5 47.9	2.025	3.023	4.3	20.6
8 9	20 38.14	− 6 33.4	2.029	3.025	4.4	20.6
8 19	20 30.67	− 7 25.3	2.060	3.026	6.9	20.8
8 29	20 24.54	− 8 19.3	2.117	3.027	9.9	21.0
9 8	20 20.28	− 9 11.2	2.198	3.028	12.7	21.2
336163 2008 RN_{22}			7 31.8 12.°46		3.°9/ 3.7 17	
6 30	21 3.20	− 4 22.7	1.322	2.199	17.3	19.9
7 10	20 59.52	− 5 21.7	1.261	2.202	13.3	19.7
7 20	20 53.56	− 6 47.1	1.220	2.205	8.8	19.4
7 30	20 46.15	− 8 34.3	1.202	2.209	4.6	19.2
8 9	20 38.44	−10 34.6	1.209	2.213	4.8	19.2
8 19	20 31.63	−12 37.3	1.241	2.219	9.0	19.5
8 29	20 26.82	−14 32.5	1.296	2.225	13.4	19.8
9 8	20 24.71	−16 12.8	1.372	2.232	17.2	20.0
424368 2007 VB_{244}			7 31.8 221.°46		3.°9/ 2.7 17	
6 30	21 10.45	− 8 22.8	1.535	2.407	15.7	21.1
7 10	21 4.54	− 8 11.1	1.464	2.403	11.9	20.9
7 20	20 56.31	− 8 14.4	1.414	2.399	7.8	20.6
7 30	20 46.59	− 8 31.6	1.389	2.394	4.3	20.4
8 9	20 36.52	− 8 59.4	1.388	2.390	5.0	20.4
8 19	20 27.31	− 9 33.7	1.414	2.385	8.9	20.6
8 29	20 20.07	−10 9.7	1.463	2.380	13.0	20.9
9 8	20 15.53	−10 43.4	1.533	2.374	16.7	21.1
158398 2001 YO_{105}			7 31.8 110.°94		0.°7/ 1.3 17	
6 30	21 8.04	−13 45.5	1.726	2.611	13.6	20.2
7 10	21 2.55	−14 18.7	1.665	2.617	9.8	19.9
7 20	20 55.07	−15 2.4	1.626	2.622	5.6	19.7
7 30	20 46.38	−15 52.5	1.614	2.628	1.3	19.4
8 9	20 37.50	−16 43.8	1.628	2.633	3.6	19.6
8 19	20 29.45	−17 31.5	1.668	2.639	7.9	19.9
8 29	20 23.16	−18 12.0	1.734	2.644	11.7	20.1
9 8	20 19.26	−18 43.1	1.820	2.649	15.0	20.3
50156 2000 AN_{142}			7 31.8 147.°15		3.°3/ 2.7 18	
6 30	21 10.42	− 8 37.9	1.781	2.645	14.2	18.6
7 10	21 4.15	− 8 31.8	1.716	2.652	10.7	18.4
7 20	20 55.93	− 8 38.7	1.674	2.658	6.9	18.2
7 30	20 46.52	− 8 57.0	1.658	2.664	3.7	18.0
8 9	20 36.93	− 9 23.7	1.668	2.669	4.4	18.0
8 19	20 28.18	− 9 55.1	1.706	2.675	7.9	18.3
8 29	20 21.18	−10 27.3	1.768	2.679	11.5	18.5
9 8	20 16.54	−10 57.0	1.852	2.683	14.7	18.7
199287 2006 BX_{54}			7 31.8 3.°98		2.°0/ 1.9 16	
6 30	21 6.80	−11 45.8	1.526	2.414	14.8	20.3
7 10	21 1.88	−12 0.2	1.463	2.414	11.0	20.0
7 20	20 54.80	−12 27.7	1.420	2.414	6.6	19.8
7 30	20 46.35	−13 5.3	1.402	2.414	2.4	19.5
8 9	20 37.65	−13 48.2	1.409	2.415	4.0	19.6
8 19	20 29.82	−14 31.4	1.442	2.416	8.4	19.9
8 29	20 23.90	−15 10.5	1.498	2.417	12.6	20.1
9 8	20 20.55	−15 42.1	1.574	2.419	16.2	20.4
400236 2007 HS_{53}			7 31.8 252.°55		1.°5/30.6 18	
6 30	21 5.41	−20 38.7	2.388	3.277	10.1	21.1
7 10	21 0.34	−21 19.9	2.317	3.273	7.2	20.9
7 20	20 53.74	−22 4.6	2.271	3.269	4.0	20.7
7 30	20 46.18	−22 48.7	2.252	3.265	1.5	20.5
8 9	20 38.42	−23 28.5	2.261	3.260	3.6	20.7
8 19	20 31.21	−24 0.9	2.298	3.256	6.8	20.9
8 29	20 25.29	−24 24.0	2.361	3.252	9.8	21.1
9 8	20 21.19	−24 37.2	2.445	3.247	12.4	21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
370672 2004 DQ_{37}			7 31.8 191.°92		3.°8/29.6 17	
	h m	° ′			°	m
6 30	21 13.69	−26 52.6	1.918	2.807	12.2	21.0
7 10	21 6.61	−27 34.1	1.852	2.806	8.9	20.8
7 20	20 57.36	−28 13.8	1.811	2.804	5.5	20.6
7 30	20 46.75	−28 46.0	1.797	2.801	3.8	20.5
8 9	20 35.92	−29 5.7	1.810	2.798	5.8	20.6
8 19	20 26.00	−29 10.7	1.850	2.794	9.2	20.8
8 29	20 18.00	−29 1.0	1.914	2.790	12.5	21.0
9 8	20 12.59	−28 38.5	1.999	2.785	15.4	21.2
312674 2010 MF_{20}			7 31.8 344.°30		0.°3/ 1.0 18	
6 30	21 5.92	−15 54.2	1.853	2.743	12.5	20.5
7 10	21 0.99	−16 9.8	1.784	2.738	9.1	20.3
7 20	20 54.21	−16 32.9	1.737	2.735	5.1	20.0
7 30	20 46.26	−17 0.3	1.717	2.731	0.9	19.7
8 9	20 38.09	−17 28.2	1.723	2.728	3.4	19.9
8 19	20 30.65	−17 53.0	1.755	2.726	7.5	20.1
8 29	20 24.80	−18 12.2	1.812	2.724	11.2	20.4
9 8	20 21.17	−18 24.1	1.891	2.722	14.4	20.6
445392 2010 SU_{2}			7 31.8 296.°56		6.°8/ 5.7 18	
6 30	21 4.14	+ 2 43.9	2.174	2.987	13.8	21.1
7 10	20 59.54	+ 3 6.4	2.089	2.976	11.4	20.9
7 20	20 53.35	+ 3 10.9	2.026	2.965	9.1	20.7
7 30	20 46.14	+ 2 56.2	1.986	2.954	7.3	20.6
8 9	20 38.63	+ 2 23.4	1.972	2.943	6.9	20.5
8 19	20 31.60	+ 1 35.5	1.983	2.932	8.4	20.6
8 29	20 25.82	+ 0 37.1	2.019	2.921	10.7	20.7
9 8	20 21.88	− 0 26.6	2.078	2.911	13.2	20.9
398225 2010 PR_{27}			7 31.8 97.°65		2.°3/30.5 18	
6 30	21 10.03	−25 18.2	2.290	3.177	10.6	20.6
7 10	21 3.58	−25 26.6	2.227	3.180	7.6	20.4
7 20	20 55.49	−25 33.4	2.188	3.184	4.4	20.2
7 30	20 46.45	−25 35.3	2.178	3.187	2.3	20.1
8 9	20 37.34	−25 29.7	2.195	3.191	4.2	20.2
8 19	20 29.02	−25 15.6	2.241	3.194	7.3	20.4
8 29	20 22.23	−24 52.9	2.312	3.198	10.2	20.6
9 8	20 17.49	−24 22.8	2.405	3.201	12.8	20.8
358933 2008 HD_{50}			7 31.8 63.°11		0.°7/31.4 18	
6 30	21 6.15	−18 11.5	2.093	2.982	11.3	21.2
7 10	21 0.90	−18 44.5	2.038	2.994	8.1	21.0
7 20	20 54.03	−19 22.4	2.007	3.006	4.4	20.8
7 30	20 46.23	−20 1.4	2.004	3.018	0.8	20.5
8 9	20 38.34	−20 37.4	2.027	3.031	3.4	20.8
8 19	20 31.19	−21 7.4	2.078	3.043	7.0	21.0
8 29	20 25.51	−21 29.3	2.154	3.055	10.2	21.2
9 8	20 21.82	−21 42.3	2.253	3.068	12.9	21.5
25701 Alexkeeler			7 31.8 270.°35		1.°5/ 1.9 18	
6 30	21 6.57	−11 49.6	1.952	2.828	12.6	18.8
7 10	21 1.50	−12 15.1	1.867	2.813	9.3	18.5
7 20	20 54.55	−12 52.2	1.805	2.798	5.6	18.3
7 30	20 46.35	−13 38.0	1.769	2.782	1.9	18.0
8 9	20 37.76	−14 28.4	1.761	2.766	3.4	18.1
8 19	20 29.73	−15 19.0	1.779	2.750	7.4	18.3
8 29	20 23.17	−16 5.5	1.823	2.734	11.2	18.5
9 8	20 18.76	−16 45.0	1.888	2.717	14.5	18.7
314582 2005 YJ_{274}			7 31.8 287.°19		1.°1/31.1 18	
6 30	21 7.72	−21 4.4	2.259	3.147	10.7	20.2
7 10	21 2.05	−21 14.7	2.183	3.138	7.6	20.0
7 20	20 54.73	−21 27.0	2.131	3.129	4.3	19.8
7 30	20 46.37	−21 38.1	2.106	3.120	1.2	19.6
8 9	20 37.81	−21 45.3	2.110	3.111	3.5	19.7
8 19	20 29.87	−21 46.6	2.140	3.102	7.0	19.9
8 29	20 23.35	−21 40.8	2.197	3.094	10.2	20.1
9 8	20 18.81	−21 28.0	2.276	3.085	13.0	20.3
130907 2000 VQ_{44}			7 31.8 193.°12		6.°0/27.2 18	
6 30	21 12.68	−34 27.8	2.269	3.151	10.9	21.1
7 10	21 5.80	−35 36.3	2.209	3.149	8.4	20.9
7 20	20 56.90	−36 38.3	2.174	3.146	6.5	20.8
7 30	20 46.72	−37 27.4	2.166	3.143	6.1	20.7
8 9	20 36.28	−37 58.8	2.185	3.139	7.5	20.8
8 19	20 26.64	−38 10.4	2.230	3.135	9.8	21.0
8 29	20 18.74	−38 2.9	2.299	3.130	12.3	21.1
9 8	20 13.25	−37 39.1	2.387	3.124	14.4	21.3
234786 2002 QY_{3}			7 31.8 47.°57		0.°5/31.6 18	
6 30	21 12.42	−20 7.3	1.595	2.489	14.0	19.5
7 10	21 5.67	−19 52.4	1.544	2.501	10.0	19.3
7 20	20 56.77	−19 39.9	1.514	2.513	5.5	19.1
7 30	20 46.68	−19 26.9	1.511	2.526	0.9	18.8
8 9	20 36.60	−19 11.0	1.534	2.538	4.0	19.0
8 19	20 27.69	−18 51.0	1.583	2.552	8.4	19.3
8 29	20 20.88	−18 26.6	1.656	2.565	12.3	19.6
9 8	20 16.75	−17 58.1	1.750	2.579	15.5	19.8

479481 2014 AQ_{22} 7 31.8 191°.83 5°.0/27.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 10.44	−29 51.2	2.112	3.003	11.2	21.2
7 10	21 4.27	−31 10.4	2.051	3.002	8.3	21.0
7 20	20 56.08	−32 27.0	2.015	3.000	5.8	20.9
7 30	20 46.60	−33 34.1	2.007	2.998	5.1	20.8
8 9	20 36.81	−34 25.9	2.025	2.996	6.8	20.9
8 19	20 27.77	−34 59.3	2.070	2.992	9.6	21.1
8 29	20 20.43	−35 13.7	2.139	2.989	12.4	21.3
9 8	20 15.45	−35 11.1	2.227	2.985	14.8	21.4

478548 2012 TE_{32} 7 31.8 290°.80 0°.7/ 1.2 18

6 30	21 7.74	−14 58.2	1.702	2.591	13.5	21.5
7 10	21 2.57	−15 14.3	1.622	2.576	9.9	21.2
7 20	20 55.24	−15 39.8	1.564	2.561	5.7	21.0
7 30	20 46.48	−16 11.4	1.531	2.546	1.2	20.6
8 9	20 37.31	−16 44.9	1.525	2.530	3.7	20.8
8 19	20 28.82	−17 15.9	1.544	2.516	8.3	21.0
8 29	20 22.08	−17 41.3	1.588	2.501	12.4	21.2
9 8	20 17.83	−17 58.9	1.652	2.486	16.0	21.4

26042 4242 $T\text{-}_1$ 7 31.8 220°.61 2°.9/ 3.6 18

6 30	21 3.56	− 5 30.1	2.823	3.664	10.2	19.0
7 10	20 58.81	− 5 49.6	2.738	3.658	7.8	18.9
7 20	20 52.84	− 6 20.4	2.677	3.651	5.3	18.7
7 30	20 46.09	− 7 1.1	2.643	3.643	3.2	18.5
8 9	20 39.14	− 7 49.3	2.638	3.636	3.4	18.5
8 19	20 32.59	− 8 41.9	2.662	3.628	5.6	18.7
8 29	20 27.01	− 9 35.6	2.713	3.620	8.1	18.8
9 8	20 22.85	−10 27.3	2.788	3.611	10.5	19.0

156318 2001 XF_{76} 7 31.8 102°.48 0°.7/ 1.2 17

6 30	21 11.05	−15 4.0	1.811	2.692	13.2	20.1
7 10	21 4.50	−15 18.4	1.760	2.710	9.5	19.9
7 20	20 56.07	−15 40.3	1.733	2.728	5.4	19.7
7 30	20 46.59	−16 6.3	1.731	2.746	1.2	19.5
8 9	20 37.07	−16 32.6	1.758	2.763	3.4	19.7
8 19	20 28.52	−16 56.0	1.811	2.780	7.5	20.0
8 29	20 21.77	−17 14.0	1.890	2.796	11.1	20.2
9 8	20 17.37	−17 25.5	1.990	2.812	14.1	20.4

210346 2007 UM_1 7 31.8 240°.50 0°.1/31.7 18

6 30	21 7.80	−17 0.8	1.974	2.860	12.0	20.9
7 10	21 2.29	−17 24.2	1.902	2.856	8.7	20.7
7 20	20 54.94	−17 54.0	1.854	2.851	4.8	20.4
7 30	20 46.44	−18 26.7	1.832	2.847	0.7	20.1
8 9	20 37.69	−18 58.2	1.838	2.842	3.4	20.3
8 19	20 29.62	−19 25.2	1.871	2.838	7.4	20.6
8 29	20 23.13	−19 45.2	1.929	2.833	11.0	20.8
9 8	20 18.81	−19 57.1	2.008	2.828	14.1	21.0

481182 2005 UK_{307} 7 31.8 240°.42 1°.3/30.9 18

6 30	21 6.62	−20 34.0	2.293	3.181	10.5	21.9
7 10	21 1.26	−21 4.6	2.221	3.177	7.5	21.7
7 20	20 54.29	−21 38.4	2.175	3.173	4.2	21.5
7 30	20 46.33	−22 11.6	2.155	3.169	1.3	21.3
8 9	20 38.17	−22 40.7	2.164	3.165	3.6	21.4
8 19	20 30.61	−23 2.8	2.201	3.161	7.0	21.6
8 29	20 24.42	−23 16.4	2.262	3.156	10.1	21.8
9 8	20 20.14	−23 21.0	2.347	3.152	12.8	22.0

253666 2003 UE_{186} 7 31.8 318°.95 4°.6/30.1 18

6 30	21 10.42	−26 2.3	1.146	2.064	16.4	19.6
7 10	21 5.53	−26 30.6	1.075	2.043	12.1	19.2
7 20	20 57.34	−26 58.6	1.024	2.022	7.4	18.9
7 30	20 46.87	−27 18.3	0.994	2.003	4.6	18.7
8 9	20 35.74	−27 22.2	0.987	1.984	7.5	18.8
8 19	20 25.78	−27 6.7	1.002	1.966	12.6	19.0
8 29	20 18.63	−26 32.3	1.037	1.949	17.5	19.2
9 8	20 15.26	−25 42.2	1.089	1.933	21.8	19.5

276483 2003 OH_9 7 31.8 14°.22 9°.4/ 5.9 18

6 30	21 4.81	+ 1 44.7	1.294	2.146	19.2	19.5
7 10	21 0.65	+ 2 39.9	1.239	2.151	15.9	19.3
7 20	20 54.20	+ 3 8.8	1.203	2.156	12.6	19.1
7 30	20 46.33	+ 3 8.8	1.187	2.163	10.0	19.0
8 9	20 38.24	+ 2 41.4	1.192	2.170	9.5	19.0
8 19	20 31.13	+ 1 51.5	1.220	2.179	11.4	19.1
8 29	20 26.08	+ 0 46.9	1.269	2.189	14.4	19.3
9 8	20 23.75	− 0 23.7	1.337	2.199	17.5	19.6

92905 2000 RT_6 7 31.8 291°.79 9°.3/ 7.2 18

6 30	21 5.03	+ 6 46.1	1.720	2.525	17.1	19.5
7 10	21 0.58	+ 7 7.7	1.638	2.513	14.7	19.3
7 20	20 54.14	+ 7 3.1	1.574	2.500	12.1	19.1
7 30	20 46.34	+ 6 30.1	1.531	2.488	10.0	19.0
8 9	20 38.12	+ 5 29.7	1.512	2.476	9.3	18.9
8 19	20 30.48	+ 4 6.3	1.517	2.463	10.6	18.9
8 29	20 24.42	+ 2 27.3	1.545	2.451	13.2	19.1
9 8	20 20.68	+ 0 41.7	1.595	2.439	16.0	19.2

149735 2004 LC_{11} 7 31.8 341°.29 1°.9/ 2.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 2.12	−11 25.8	1.474	2.369	14.8	19.1
7 10	20 58.73	−11 49.4	1.399	2.354	11.0	18.9
7 20	20 53.19	−12 28.4	1.344	2.339	6.7	18.6
7 30	20 46.19	−13 19.6	1.313	2.326	2.4	18.3
8 9	20 38.79	−14 17.7	1.307	2.313	4.0	18.4
8 19	20 32.11	−15 16.6	1.325	2.302	8.6	18.6
8 29	20 27.24	−16 10.6	1.366	2.292	13.0	18.8
9 8	20 24.93	−16 55.4	1.426	2.284	16.9	19.1

320672 2008 CK_{188} 7 31.8 114°.28 3°.3/ 2.7 17

6 30	21 10.65	− 8 38.3	1.620	2.489	15.1	21.4
7 10	21 4.44	− 8 39.3	1.563	2.502	11.4	21.2
7 20	20 56.16	− 8 54.7	1.528	2.514	7.3	21.0
7 30	20 46.65	− 9 22.5	1.518	2.525	3.8	20.8
8 9	20 37.02	− 9 58.6	1.534	2.537	4.5	20.8
8 19	20 28.34	−10 38.7	1.577	2.547	8.2	21.1
8 29	20 21.57	−11 18.3	1.643	2.558	12.0	21.3
9 8	20 17.33	−11 53.6	1.731	2.568	15.3	21.6

211524 2003 QE_{67} 7 31.8 323°.89 0°.0/31.8 18

6 30	21 5.96	−14 32.4	1.188	2.096	16.7	19.5
7 10	21 1.97	−15 19.4	1.120	2.084	12.2	19.2
7 20	20 55.21	−16 22.7	1.072	2.073	6.9	18.8
7 30	20 46.55	−17 36.2	1.047	2.062	1.1	18.4
8 9	20 37.34	−18 51.5	1.045	2.051	4.8	18.7
8 19	20 29.09	−19 59.9	1.066	2.042	10.5	19.0
8 29	20 23.19	−20 55.3	1.109	2.033	15.6	19.2
9 8	20 20.55	−21 34.4	1.169	2.025	19.9	19.5

275732 2001 DO_{79} 7 31.8 162°.70 4°.4/ 4.0 17

6 30	21 8.50	− 3 12.8	2.405	3.235	12.1	21.8
7 10	21 2.42	− 2 58.7	2.333	3.241	9.5	21.6
7 20	20 54.88	− 2 57.6	2.285	3.247	6.9	21.5
7 30	20 46.45	− 3 9.1	2.262	3.252	4.8	21.3
8 9	20 37.87	− 3 31.6	2.268	3.256	4.8	21.4
8 19	20 29.86	− 4 2.4	2.302	3.260	6.8	21.5
8 29	20 23.11	− 4 38.1	2.363	3.263	9.4	21.7
9 8	20 18.14	− 5 15.2	2.446	3.266	11.9	21.8

253796 2003 XP_6 7 31.8 260°.70 2°.2/30.5 18

6 30	21 10.95	−20 40.5	1.668	2.562	13.4	20.9
7 10	21 5.12	−21 33.2	1.584	2.543	9.7	20.7
7 20	20 56.83	−22 32.6	1.524	2.522	5.5	20.4
7 30	20 46.81	−23 32.5	1.489	2.502	2.2	20.1
8 9	20 36.19	−24 26.1	1.481	2.480	5.2	20.3
8 19	20 26.26	−25 8.0	1.499	2.459	9.7	20.5
8 29	20 18.23	−25 35.2	1.541	2.436	13.9	20.7
9 8	20 12.99	−25 47.5	1.603	2.414	17.5	20.9

397121 2005 VS_{126} 7 31.8 10°.83 5°.3/28.7 18

6 30	21 9.39	−30 59.2	1.808	2.706	12.4	20.6
7 10	21 3.65	−31 44.2	1.754	2.708	9.3	20.4
7 20	20 55.77	−32 24.0	1.723	2.709	6.4	20.2
7 30	20 46.60	−32 52.2	1.717	2.712	5.4	20.2
8 9	20 37.30	−33 4.3	1.737	2.714	7.1	20.3
8 19	20 28.98	−32 58.6	1.781	2.717	10.1	20.5
8 29	20 22.64	−32 35.9	1.849	2.720	13.1	20.7
9 8	20 18.88	−31 59.0	1.936	2.724	15.7	20.9

86683 2000 FF_{35} 7 31.8 181°.13 0°.0/31.7 18

6 30	21 9.80	−15 48.8	1.846	2.730	12.9	20.3
7 10	21 3.82	−16 25.8	1.778	2.731	9.3	20.0
7 20	20 55.85	−17 11.2	1.734	2.731	5.2	19.8
7 30	20 46.63	−18 0.7	1.716	2.731	0.8	19.5
8 9	20 37.15	−18 49.2	1.726	2.731	3.6	19.7
8 19	20 28.44	−19 32.2	1.763	2.730	7.8	20.0
8 29	20 21.43	−20 6.8	1.825	2.728	11.6	20.2
9 8	20 16.79	−20 31.4	1.908	2.726	14.8	20.4

245281 2005 CY_1 7 31.8 134°.08 0°.2/31.9 18

6 30	21 10.20	−16 57.1	2.037	2.918	12.0	20.3
7 10	21 3.84	−17 1.2	1.974	2.925	8.6	20.1
7 20	20 55.74	−17 10.3	1.936	2.932	4.8	19.9
7 30	20 46.60	−17 21.6	1.924	2.938	0.8	19.6
8 9	20 37.34	−17 32.4	1.940	2.945	3.2	19.8
8 19	20 28.89	−17 40.2	1.984	2.951	7.1	20.1
8 29	20 22.04	−17 43.4	2.053	2.956	10.5	20.3
9 8	20 17.34	−17 41.4	2.145	2.962	13.4	20.5

506955 2008 MO_1 7 31.9 79°.50 3°.9/28.3 18

6 30	21 6.66	−26 13.0	2.220	3.114	10.6	20.8
7 10	21 1.40	−27 41.6	2.169	3.124	7.6	20.6
7 20	20 54.43	−29 10.1	2.143	3.135	4.9	20.5
7 30	20 46.41	−30 31.9	2.146	3.146	3.9	20.4
8 9	20 38.18	−31 41.5	2.177	3.156	5.7	20.5
8 19	20 30.64	−32 35.3	2.234	3.167	8.5	20.7
8 29	20 24.57	−33 11.8	2.316	3.177	11.2	20.9
9 8	20 20.55	−33 31.9	2.419	3.188	13.5	21.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V
498527 2008 EU_{161}			7 31.9	83°.31	2°.9/ 2.6 17	
	h m	° ′			°	m
6 30	21 8.55	− 9 8.1	1.497	2.376	15.6	21.1
7 10	21 3.15	− 9 23.5	1.438	2.382	11.7	20.9
7 20	20 55.55	− 9 54.9	1.400	2.389	7.4	20.7
7 30	20 46.60	−10 39.2	1.386	2.396	3.4	20.4
8 9	20 37.44	−11 31.5	1.398	2.402	4.4	20.5
8 19	20 29.23	−12 26.1	1.435	2.409	8.5	20.8
8 29	20 22.99	−13 17.7	1.496	2.416	12.6	21.0
9 8	20 19.37	−14 2.2	1.578	2.423	16.1	21.3
418123 2007 YY_{47}			7 31.9	237°.08	0°.0/31.7 17	
6 30	21 10.98	−15 54.9	1.687	2.573	13.8	22.3
7 10	21 4.98	−16 27.0	1.608	2.561	10.0	22.0
7 20	20 56.66	−17 8.6	1.552	2.549	5.6	21.7
7 30	20 46.80	−17 55.3	1.521	2.536	0.9	21.4
8 9	20 36.47	−18 41.7	1.517	2.522	4.0	21.6
8 19	20 26.87	−19 23.0	1.540	2.508	8.6	21.8
8 29	20 19.13	−19 55.5	1.587	2.493	12.9	22.0
9 8	20 14.02	−20 17.6	1.655	2.477	16.5	22.2
443601 2014 KA_{98}			7 31.9	50°.10	3°.2/29.7 18	
6 30	21 7.43	−25 8.3	1.966	2.863	11.6	20.9
7 10	21 2.02	−25 56.2	1.914	2.872	8.3	20.7
7 20	20 54.78	−26 44.1	1.886	2.882	5.0	20.5
7 30	20 46.47	−27 26.4	1.885	2.892	3.2	20.4
8 9	20 38.05	−27 58.6	1.910	2.901	5.2	20.5
8 19	20 30.46	−28 18.1	1.962	2.912	8.4	20.8
8 29	20 24.55	−28 24.1	2.038	2.922	11.5	21.0
9 8	20 20.87	−28 17.5	2.134	2.932	14.1	21.2
471023 2009 SY_{293}			7 31.9	147°.68	4°.2/ 3.7 17	
6 30	21 8.03	− 4 59.1	1.738	2.595	14.8	21.5
7 10	21 2.57	− 5 11.3	1.672	2.599	11.5	21.3
7 20	20 55.17	− 5 41.2	1.627	2.603	7.8	21.1
7 30	20 46.55	− 6 27.0	1.606	2.607	4.7	20.9
8 9	20 37.69	− 7 24.6	1.612	2.611	4.9	20.9
8 19	20 29.60	− 8 28.7	1.645	2.614	8.0	21.1
8 29	20 23.20	− 9 33.6	1.702	2.617	11.6	21.4
9 8	20 19.12	−10 34.3	1.781	2.620	14.8	21.6
247368 2001 XO_{51}			7 31.9	341°.89	9°.4/24.2 18	
6 30	21 7.95	−37 56.9	1.625	2.523	13.5	19.5
7 10	21 3.27	−39 52.7	1.574	2.515	11.1	19.4
7 20	20 55.88	−41 38.9	1.546	2.507	9.6	19.3
7 30	20 46.69	−43 4.8	1.541	2.500	9.7	19.3
8 9	20 37.03	−44 2.7	1.560	2.494	11.5	19.4
8 19	20 28.37	−44 29.1	1.601	2.488	14.0	19.5
8 29	20 22.05	−44 25.3	1.662	2.483	16.6	19.7
9 8	20 18.87	−43 56.2	1.739	2.479	18.9	19.8
160220 2002 FP_{20}			7 31.9	69°.18	6°.8/27.8 17	
6 30	21 12.75	−32 51.3	1.606	2.504	13.7	19.5
7 10	21 6.18	−34 7.2	1.572	2.523	10.4	19.4
7 20	20 57.19	−35 14.5	1.562	2.543	7.7	19.2
7 30	20 46.85	−36 5.1	1.576	2.562	6.9	19.2
8 9	20 36.52	−36 33.5	1.616	2.582	8.6	19.4
8 19	20 27.51	−36 38.4	1.679	2.601	11.5	19.6
8 29	20 20.85	−36 21.6	1.765	2.621	14.3	19.8
9 8	20 17.12	−35 47.6	1.869	2.640	16.8	20.1
383183 2005 WE_{177}			7 31.9	189°.14	0°.8/31.4 17	
6 30	21 10.15	−18 42.3	1.914	2.801	12.3	22.0
7 10	21 4.03	−19 7.9	1.846	2.800	8.8	21.8
7 20	20 55.96	−19 38.6	1.801	2.799	4.9	21.5
7 30	20 46.68	−20 10.2	1.784	2.798	1.0	21.2
8 9	20 37.17	−20 38.6	1.794	2.797	3.8	21.5
8 19	20 28.44	−21 0.5	1.830	2.795	7.8	21.7
8 29	20 21.40	−21 13.9	1.892	2.792	11.4	21.9
9 8	20 16.68	−21 18.4	1.976	2.790	14.5	22.1
390585 2001 QV_{333}			7 31.9	351°.96	12°.8/30.4 14 C	
6 30	21 30.53	−43 1.3	0.926	1.821	21.4	20.3
7 10	21 20.70	−43 11.1	0.879	1.818	17.7	20.0
7 20	21 5.85	−42 51.0	0.848	1.815	14.4	19.8
7 30	20 48.22	−41 46.9	0.836	1.814	12.8	19.8
8 9	20 31.00	−39 54.8	0.846	1.812	14.2	19.8
8 19	20 17.01	−37 23.5	0.876	1.812	17.6	20.0
8 29	20 7.99	−34 28.7	0.925	1.812	21.5	20.3
9 8	20 4.30	−31 26.4	0.991	1.813	25.1	20.5
40193 1998 RF_{77}			7 31.9	355°.65	4°.1/29.2 18	
6 30	21 7.10	−27 38.1	1.871	2.771	11.9	17.5
7 10	21 1.97	−28 21.9	1.811	2.769	8.7	17.3
7 20	20 54.85	−29 3.8	1.774	2.767	5.6	17.1
7 30	20 46.51	−29 38.2	1.763	2.765	4.1	17.0
8 9	20 37.97	−30 0.3	1.778	2.764	6.0	17.1
8 19	20 30.28	−30 7.6	1.818	2.764	9.2	17.3
8 29	20 24.35	−29 59.9	1.882	2.764	12.4	17.5
9 8	20 20.81	−29 38.7	1.966	2.764	15.1	17.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
96293 1996 HV_{22}			7 31.9	357°.82	5°.0/29.5 17	
	h m	° ′			°	m
6 30	21 5.62	−24 11.6	0.957	1.887	17.6	18.2
7 10	21 2.16	−25 17.8	0.908	1.882	12.7	17.9
7 20	20 55.45	−26 28.0	0.878	1.879	7.7	17.6
7 30	20 46.63	−27 31.4	0.869	1.878	5.0	17.5
8 9	20 37.45	−28 17.7	0.880	1.877	8.2	17.7
8 19	20 29.71	−28 40.9	0.912	1.878	13.3	17.9
8 29	20 24.94	−28 39.9	0.963	1.881	18.0	18.2
9 8	20 23.91	−28 17.4	1.030	1.885	22.1	18.5
75043 1999 UE_{39}			7 31.9	340°.12	4°.8/30.0 18	
6 30	21 11.12	−26 50.7	1.169	2.084	16.3	17.9
7 10	21 5.79	−27 18.1	1.110	2.076	11.9	17.6
7 20	20 57.36	−27 43.2	1.071	2.069	7.4	17.4
7 30	20 46.94	−27 58.3	1.054	2.062	4.8	17.2
8 9	20 36.17	−27 57.1	1.060	2.056	7.4	17.3
8 19	20 26.77	−27 37.1	1.089	2.051	12.1	17.6
8 29	20 20.17	−26 59.5	1.138	2.047	16.6	17.8
9 8	20 17.15	−26 8.1	1.205	2.043	20.5	18.1
153299 2001 FB_{154}			7 31.9	154°.40	5°.3/ 6.6 18	
6 30	21 3.70	+ 4 18.8	2.932	3.719	11.2	21.1
7 10	20 58.85	+ 4 7.3	2.856	3.725	9.3	21.0
7 20	20 52.86	+ 3 40.2	2.802	3.732	7.3	20.8
7 30	20 46.20	+ 2 57.8	2.775	3.737	5.7	20.7
8 9	20 39.39	+ 2 2.2	2.774	3.743	5.3	20.7
8 19	20 33.02	+ 0 56.3	2.802	3.748	6.4	20.8
8 29	20 27.59	− 0 15.7	2.857	3.753	8.2	20.9
9 8	20 23.53	− 1 29.6	2.937	3.757	10.1	21.1
132121 2002 CW_{233}			7 31.9	84°.61	1°.7/30.9 17	
6 30	21 10.63	−21 7.3	1.697	2.592	13.2	20.1
7 10	21 4.47	−21 31.9	1.641	2.600	9.4	19.9
7 20	20 56.22	−21 59.4	1.609	2.608	5.3	19.6
7 30	20 46.74	−22 25.1	1.603	2.616	1.7	19.4
8 9	20 37.15	−22 44.5	1.623	2.624	4.4	19.6
8 19	20 28.55	−22 55.0	1.669	2.633	8.5	19.9
8 29	20 21.90	−22 55.3	1.740	2.641	12.2	20.1
9 8	20 17.80	−22 46.0	1.831	2.649	15.4	20.4
4076 Dörffel			7 31.9	266°.76	0°.4/31.6 18	
6 30	21 7.59	−17 55.5	2.011	2.899	11.8	16.7
7 10	21 2.18	−18 18.5	1.937	2.892	8.5	16.5
7 20	20 54.94	−18 47.1	1.887	2.885	4.7	16.3
7 30	20 46.55	−19 17.8	1.864	2.878	0.8	16.0
8 9	20 37.90	−19 46.6	1.867	2.871	3.5	16.2
8 19	20 29.91	−20 10.2	1.898	2.864	7.4	16.4
8 29	20 23.46	−20 26.6	1.954	2.858	11.0	16.6
9 8	20 19.15	−20 34.7	2.032	2.851	14.0	16.8
246760 2009 CY_{6}			7 31.9	349°.55	1°.1/ 1.6 18	
6 30	21 5.35	−13 2.2	1.619	2.509	14.0	20.5
7 10	21 0.86	−13 32.2	1.552	2.505	10.2	20.3
7 20	20 54.31	−14 14.6	1.507	2.502	6.0	20.1
7 30	20 46.45	−15 5.3	1.486	2.500	1.6	19.8
8 9	20 38.31	−15 59.1	1.491	2.498	3.7	19.9
8 19	20 30.95	−16 50.7	1.522	2.496	8.1	20.2
8 29	20 25.34	−17 35.7	1.577	2.495	12.2	20.4
9 8	20 22.17	−18 11.2	1.653	2.494	15.7	20.6
442577 2012 BA_{83}			7 31.9	215°.49	0°.6/31.4 18	
6 30	21 6.03	−18 26.8	2.660	3.540	9.5	22.4
7 10	21 0.70	−18 57.0	2.582	3.534	6.8	22.2
7 20	20 53.98	−19 31.3	2.531	3.528	3.8	22.0
7 30	20 46.39	−20 6.8	2.507	3.521	0.8	21.8
8 9	20 38.60	−20 40.1	2.512	3.514	2.9	21.9
8 19	20 31.29	−21 8.7	2.545	3.507	6.0	22.1
8 29	20 25.12	−21 30.8	2.606	3.500	8.9	22.3
9 8	20 20.58	−21 45.3	2.689	3.492	11.4	22.5
516221 2016 TA_{97}			7 31.9	213°.13	4°.5/28.7 18	
6 30	21 9.94	−30 50.3	2.303	3.190	10.5	21.5
7 10	21 3.75	−31 32.5	2.239	3.188	7.8	21.3
7 20	20 55.76	−32 10.3	2.200	3.184	5.4	21.2
7 30	20 46.67	−32 38.9	2.187	3.181	4.5	21.1
8 9	20 37.41	−32 54.3	2.203	3.178	6.0	21.2
8 19	20 28.90	−32 54.9	2.244	3.174	8.6	21.4
8 29	20 21.96	−32 40.9	2.310	3.170	11.2	21.5
9 8	20 17.19	−32 14.2	2.398	3.166	13.6	21.7
195159 2002 CY_{222}			7 31.9	79°.37	1°.3/ 1.6 17	
6 30	21 9.00	−13 13.4	1.668	2.552	14.0	20.5
7 10	21 3.25	−13 31.4	1.615	2.565	10.2	20.3
7 20	20 55.53	−13 59.7	1.584	2.578	5.9	20.1
7 30	20 46.64	−14 34.9	1.578	2.591	1.8	19.9
8 9	20 37.66	−15 12.5	1.599	2.605	3.6	20.0
8 19	20 29.62	−15 48.1	1.646	2.618	7.8	20.3
8 29	20 23.41	−16 18.6	1.718	2.631	11.6	20.6
9 8	20 19.63	−16 41.7	1.810	2.644	14.9	20.8

257510 1996 VD_{33} 7 31.9 13°.95 0°.3/ 1.0 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 8.33	−15 41.3	1.186	2.093	16.8	20.6
7 10	21 3.50	−16 3.5	1.131	2.094	12.2	20.3
7 20	20 55.97	−16 37.5	1.097	2.097	6.9	20.0
7 30	20 46.74	−17 18.0	1.085	2.099	1.2	19.7
8 9	20 37.25	−17 58.5	1.096	2.103	4.6	19.9
8 19	20 28.96	−18 33.4	1.131	2.107	10.0	20.2
8 29	20 23.11	−18 58.8	1.188	2.112	14.8	20.5
9 8	20 20.44	−19 12.7	1.263	2.117	18.8	20.8

101351 1998 TM_{29} 7 31.9 173°.03 0°.3/31.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 5.77	−17 57.9	2.771	3.649	9.2	21.0
7 10	21 0.42	−18 21.2	2.701	3.651	6.6	20.9
7 20	20 53.78	−18 48.2	2.656	3.652	3.6	20.7
7 30	20 46.37	−19 16.3	2.639	3.654	0.6	20.4
8 9	20 38.82	−19 42.9	2.651	3.655	2.7	20.6
8 19	20 31.77	−20 5.6	2.692	3.656	5.7	20.8
8 29	20 25.83	−20 22.9	2.760	3.656	8.4	21.0
9 8	20 21.45	−20 33.7	2.852	3.656	10.8	21.2

66832 1999 UE_{45} 7 31.9 351°.75 0°.9/ 1.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 10.84	−17 38.4	1.353	2.253	15.6	17.9
7 10	21 5.08	−17 2.3	1.288	2.248	11.3	17.6
7 20	20 56.77	−16 30.7	1.245	2.243	6.5	17.3
7 30	20 46.87	−16 1.8	1.225	2.239	1.5	17.0
8 9	20 36.73	−15 34.0	1.230	2.237	4.3	17.2
8 19	20 27.71	−15 6.0	1.260	2.235	9.3	17.5
8 29	20 20.98	−14 37.3	1.313	2.234	13.9	17.7
9 8	20 17.27	−14 7.3	1.385	2.234	17.7	18.0

103311 2000 AH_{56} 7 31.9 173°.44 1°.7/30.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 9.68	−19 7.2	1.633	2.529	13.6	18.9
7 10	21 4.02	−20 7.2	1.571	2.530	9.7	18.6
7 20	20 56.11	−21 14.4	1.532	2.531	5.4	18.4
7 30	20 46.77	−22 22.4	1.518	2.531	1.8	18.1
8 9	20 37.14	−23 24.2	1.531	2.532	4.7	18.3
8 19	20 28.38	−24 14.5	1.570	2.532	9.1	18.6
8 29	20 21.57	−24 50.6	1.633	2.532	13.0	18.8
9 8	20 17.40	−25 11.8	1.717	2.532	16.3	19.1

303676 2005 MW_{50} 7 31.9 316°.27 0°.0/31.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 9.66	−18 19.2	1.977	2.863	12.1	20.6
7 10	21 3.62	−18 13.2	1.906	2.860	8.7	20.4
7 20	20 55.72	−18 10.9	1.859	2.857	4.9	20.1
7 30	20 46.70	−18 9.8	1.839	2.854	0.8	19.8
8 9	20 37.50	−18 7.4	1.846	2.851	3.4	20.0
8 19	20 29.07	−18 1.8	1.881	2.848	7.3	20.3
8 29	20 22.26	−17 51.9	1.940	2.846	10.9	20.5
9 8	20 17.67	−17 37.3	2.022	2.843	14.0	20.7

162017 1994 UB_{11} 7 31.9 247°.72 2°.0/30.9 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 13.88	−21 35.7	1.475	2.372	14.7	20.4
7 10	21 7.35	−21 56.3	1.403	2.362	10.6	20.2
7 20	20 58.12	−22 20.2	1.352	2.351	6.0	19.9
7 30	20 47.11	−22 41.8	1.327	2.340	2.0	19.6
8 9	20 35.68	−22 55.9	1.328	2.329	5.1	19.8
8 19	20 25.25	−22 59.2	1.353	2.318	10.0	20.0
8 29	20 17.11	−22 50.6	1.402	2.306	14.4	20.3
9 8	20 12.07	−22 31.1	1.470	2.294	18.2	20.5

244668 2003 KF_{6} 7 31.9 258°.78 7°.9/25.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 11.57	−40 40.9	2.244	3.118	11.3	20.5
7 10	21 5.25	−41 54.5	2.188	3.111	9.4	20.4
7 20	20 56.75	−42 57.4	2.156	3.104	8.1	20.3
7 30	20 46.88	−43 42.8	2.149	3.097	8.0	20.3
8 9	20 36.72	−44 6.1	2.167	3.091	9.3	20.3
8 19	20 27.43	−44 5.7	2.210	3.083	11.2	20.5
8 29	20 20.02	−43 43.1	2.274	3.076	13.3	20.6
9 8	20 15.18	−43 2.2	2.356	3.069	15.2	20.7

298719 2004 FF_{62} 7 31.9 258°.70 7°.3/26.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 13.41	−38 16.4	2.133	3.010	11.6	20.1
7 10	21 6.59	−39 11.9	2.067	2.999	9.4	20.0
7 20	20 57.51	−39 57.7	2.025	2.987	7.7	19.9
7 30	20 47.00	−40 27.0	2.009	2.975	7.4	19.8
8 9	20 36.21	−40 35.3	2.019	2.962	8.7	19.9
8 19	20 26.33	−40 21.2	2.053	2.950	10.9	20.0
8 29	20 18.42	−39 46.2	2.110	2.937	13.4	20.1
9 8	20 13.17	−38 54.5	2.187	2.925	15.6	20.3

445438 2010 UY_{63} 7 31.9 273°.71 4°.4/28.4 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 7.90	−29 36.5	2.260	3.152	10.5	21.3
7 10	21 2.41	−30 32.4	2.189	3.141	7.8	21.1
7 20	20 55.10	−31 26.0	2.143	3.130	5.4	21.0
7 30	20 46.62	−32 11.7	2.124	3.120	4.5	20.9
8 9	20 37.85	−32 44.8	2.133	3.109	6.1	21.0
8 19	20 29.72	−33 2.8	2.167	3.098	8.8	21.1
8 29	20 23.10	−33 5.0	2.226	3.087	11.5	21.3
9 8	20 18.62	−32 52.8	2.305	3.076	14.0	21.5

444259 2005 UT_{236} 7 31.9 313°.91 2°.1/ 2.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 4.68	−10 38.2	1.933	2.809	12.7	21.3
7 10	21 0.19	−10 53.7	1.851	2.795	9.5	21.1
7 20	20 53.90	−11 21.2	1.792	2.782	5.9	20.9
7 30	20 46.43	−11 58.5	1.759	2.769	2.5	20.6
8 9	20 38.64	−12 41.8	1.752	2.756	3.5	20.7
8 19	20 31.41	−13 27.2	1.771	2.744	7.3	20.9
8 29	20 25.63	−14 10.5	1.816	2.732	10.9	21.1
9 8	20 21.92	−14 48.4	1.882	2.720	14.2	21.3

512833 2016 UM_{114} 7 31.9 180°.24 1°.8/30.3 18 R

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 6.98	−23 8.2	2.965	3.846	8.6	22.8
7 10	21 1.26	−23 43.8	2.895	3.847	6.1	22.6
7 20	20 54.26	−24 20.3	2.852	3.848	3.5	22.4
7 30	20 46.48	−24 54.4	2.838	3.848	1.8	22.3
8 9	20 38.55	−25 23.1	2.853	3.848	3.4	22.4
8 19	20 31.11	−25 44.5	2.897	3.847	6.0	22.6
8 29	20 24.76	−25 57.3	2.968	3.846	8.5	22.8
9 8	20 19.96	−26 1.6	3.062	3.844	10.6	22.9

72299 2001 BC_{29} 7 31.9 275°.26 0°.1/31.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 10.39	−15 41.0	1.537	2.428	14.6	20.1
7 10	21 4.89	−16 8.9	1.449	2.405	10.7	19.8
7 20	20 56.83	−16 47.9	1.384	2.381	6.1	19.5
7 30	20 46.94	−17 33.6	1.343	2.357	1.0	19.1
8 9	20 36.38	−18 20.3	1.328	2.333	4.3	19.2
8 19	20 26.47	−19 2.5	1.338	2.308	9.4	19.5
8 29	20 18.51	−19 36.1	1.372	2.283	14.1	19.7
9 8	20 13.43	−19 58.8	1.425	2.258	18.2	19.9

144948 2005 EB_{32} 7 31.9 37°.57 4°.7/ 4.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 4.36	− 2 40.4	1.530	2.391	16.3	19.3
7 10	21 0.07	− 3 17.2	1.476	2.404	12.7	19.1
7 20	20 53.83	− 4 16.8	1.443	2.418	8.8	18.9
7 30	20 46.42	− 5 36.2	1.433	2.433	5.4	18.8
8 9	20 38.87	− 7 8.8	1.449	2.448	5.2	18.8
8 19	20 32.18	− 8 47.0	1.490	2.464	8.2	19.0
8 29	20 27.27	−10 22.9	1.556	2.480	11.9	19.3
9 8	20 24.73	−11 50.0	1.643	2.497	15.2	19.5

97526 2000 DA_{25} 7 31.9 278°.74 1°.0/31.2 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 7.28	−20 27.1	2.372	3.258	10.3	19.5
7 10	21 1.77	−20 40.2	2.292	3.246	7.4	19.3
7 20	20 54.67	−20 55.8	2.236	3.234	4.1	19.1
7 30	20 46.56	−21 11.0	2.208	3.222	1.1	18.8
8 9	20 38.22	−21 22.8	2.208	3.210	3.3	19.0
8 19	20 30.44	−21 29.2	2.235	3.198	6.7	19.2
8 29	20 23.98	−21 28.9	2.289	3.185	9.9	19.4
9 8	20 19.39	−21 21.5	2.365	3.173	12.6	19.5

108624 2001 MX_{27} 7 31.9 338°.84 1°.6/30.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 5.77	−17 50.9	1.265	2.176	15.6	19.0
7 10	21 1.74	−18 53.5	1.202	2.168	11.2	18.7
7 20	20 55.08	−20 7.9	1.159	2.161	6.2	18.4
7 30	20 46.66	−21 26.6	1.140	2.154	1.7	18.1
8 9	20 37.80	−22 40.7	1.144	2.148	5.3	18.3
8 19	20 29.90	−23 42.6	1.173	2.142	10.5	18.6
8 29	20 24.26	−24 27.6	1.223	2.138	15.2	18.8
9 8	20 21.72	−24 54.2	1.291	2.134	19.1	19.1

331401 2012 FU_{39} 7 31.9 154°.32 2°.8/ 2.4 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 10.88	−10 15.3	1.593	2.467	15.0	20.5
7 10	21 4.79	−10 14.6	1.528	2.471	11.2	20.3
7 20	20 56.51	−10 27.0	1.486	2.475	7.0	20.0
7 30	20 46.87	−10 50.4	1.468	2.478	3.3	19.8
8 9	20 37.00	−11 21.0	1.477	2.480	4.3	19.9
8 19	20 28.03	−11 54.6	1.511	2.483	8.4	20.2
8 29	20 21.00	−12 27.2	1.570	2.485	12.4	20.4
9 8	20 16.58	−12 55.3	1.650	2.487	15.9	20.6

179783 2002 SD_{66} 7 31.9 300°.41 2°.2/30.6 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 8.61	−19 58.5	1.400	2.305	14.8	20.2
7 10	21 3.66	−20 55.2	1.332	2.296	10.6	19.9
7 20	20 56.12	−22 0.1	1.286	2.287	6.0	19.6
7 30	20 46.83	−23 5.9	1.264	2.277	2.3	19.4
8 9	20 37.09	−24 4.9	1.267	2.268	5.5	19.5
8 19	20 28.26	−24 50.9	1.295	2.259	10.3	19.8
8 29	20 21.61	−25 20.6	1.345	2.251	14.7	20.0
9 8	20 17.99	−25 33.8	1.413	2.242	18.5	20.3

343280 2010 AQ_{37} 7 31.9 217°.40 1°.3/31.0 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
6 30	21 8.10	−18 37.0	1.752	2.645	12.9	21.0
7 10	21 2.78	−19 27.2	1.686	2.645	9.2	20.8
7 20	20 55.39	−20 24.2	1.645	2.644	5.1	20.5
7 30	20 46.70	−21 22.8	1.629	2.643	1.4	20.3
8 9	20 37.73	−22 16.9	1.640	2.642	4.2	20.5
8 19	20 29.54	−23 1.9	1.677	2.641	8.4	20.7
8 29	20 23.13	−23 34.9	1.738	2.640	12.2	20.9
9 8	20 19.15	−23 55.0	1.821	2.639	15.4	21.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
168777 2000 RD_{37}			7 31.9 141°.10		8°.9/29.4 17	
	h m	° ′			°	m
6 30	21 29.97	−40 56.7	1.587	2.453	15.5	19.5
7 10	21 18.63	−41 13.0	1.537	2.460	12.5	19.3
7 20	21 4.15	−41 10.0	1.508	2.468	10.0	19.2
7 30	20 48.05	−40 39.5	1.505	2.475	8.9	19.2
8 9	20 32.32	−39 38.6	1.528	2.481	10.2	19.2
8 19	20 18.72	−38 10.9	1.577	2.487	12.8	19.4
8 29	20 8.49	−36 24.0	1.649	2.493	15.7	19.6
9 8	20 2.15	−34 26.7	1.741	2.498	18.4	19.8
386543 2009 DZ_{2}			7 31.9 14°.44		4°.2/29.1 18	
6 30	21 8.53	−25 42.9	1.674	2.576	12.9	20.3
7 10	21 3.23	−26 51.6	1.617	2.577	9.4	20.1
7 20	20 55.69	−28 1.0	1.583	2.578	5.9	19.9
7 30	20 46.75	−29 3.6	1.575	2.579	4.2	19.8
8 9	20 37.54	−29 53.0	1.593	2.580	6.4	20.0
8 19	20 29.25	−30 25.1	1.635	2.582	10.0	20.2
8 29	20 22.92	−30 38.9	1.701	2.583	13.5	20.4
9 8	20 19.24	−30 35.7	1.786	2.585	16.4	20.6
477166 2009 EX_{19}			7 31.9 267°.87		1°.7/30.9 18	
6 30	21 10.26	−21 59.8	1.944	2.835	12.0	21.5
7 10	21 4.23	−22 16.6	1.866	2.823	8.6	21.3
7 20	20 56.18	−22 35.4	1.813	2.810	4.9	21.0
7 30	20 46.83	−22 52.1	1.785	2.798	1.8	20.8
8 9	20 37.18	−23 3.0	1.785	2.786	4.2	21.0
8 19	20 28.25	−23 5.4	1.812	2.773	8.1	21.2
8 29	20 21.01	−22 58.5	1.864	2.760	11.8	21.4
9 8	20 16.13	−22 42.7	1.937	2.748	14.9	21.6
286964 2002 PS_{192}			7 31.9 288°.76		0°.7/ 1.3 18	
6 30	21 8.01	−15 12.7	1.830	2.715	12.9	20.9
7 10	21 2.64	−15 23.3	1.755	2.707	9.4	20.7
7 20	20 55.30	−15 41.8	1.703	2.699	5.4	20.5
7 30	20 46.70	−16 5.3	1.677	2.692	1.2	20.1
8 9	20 37.80	−16 30.2	1.678	2.684	3.5	20.3
8 19	20 29.62	−16 52.9	1.706	2.676	7.7	20.5
8 29	20 23.08	−17 10.9	1.758	2.669	11.5	20.8
9 8	20 18.85	−17 22.4	1.831	2.661	14.9	21.0
315004 2007 AE_{28}			7 31.9 322°.61		0°.8/ 1.3 18	
6 30	21 7.94	−15 45.8	1.942	2.826	12.3	20.2
7 10	21 2.46	−15 38.6	1.867	2.818	9.0	20.0
7 20	20 55.14	−15 37.4	1.815	2.811	5.2	19.8
7 30	20 46.67	−15 40.0	1.790	2.804	1.3	19.5
8 9	20 37.96	−15 44.0	1.792	2.797	3.3	19.6
8 19	20 29.94	−15 47.1	1.820	2.791	7.3	19.9
8 29	20 23.50	−15 47.4	1.874	2.785	11.0	20.1
9 8	20 19.24	−15 43.7	1.949	2.779	14.1	20.3
340683 2006 RS_{83}			7 31.9 20°.16		2°.2/ 1.9 17	
6 30	21 6.37	−12 15.6	1.050	1.959	18.3	20.3
7 10	21 2.21	−12 23.9	1.004	1.965	13.5	20.1
7 20	20 55.29	−12 49.1	0.975	1.973	8.0	19.8
7 30	20 46.70	−13 26.8	0.969	1.981	2.8	19.5
8 9	20 37.93	−14 10.7	0.984	1.991	4.8	19.7
8 19	20 30.47	−14 54.1	1.022	2.002	10.1	20.0
8 29	20 25.55	−15 31.4	1.080	2.014	15.0	20.3
9 8	20 23.87	−15 58.9	1.156	2.026	19.1	20.6
385794 2006 BY_{181}			7 31.9 232°.43		0°.4/ 1.2 17	
6 30	21 7.93	−14 16.5	1.873	2.755	12.8	21.8
7 10	21 2.58	−14 54.2	1.798	2.749	9.3	21.6
7 20	20 55.27	−15 42.1	1.746	2.742	5.3	21.3
7 30	20 46.70	−16 36.2	1.721	2.735	1.1	21.0
8 9	20 37.81	−17 31.4	1.723	2.728	3.5	21.2
8 19	20 29.57	−18 23.0	1.752	2.721	7.7	21.4
8 29	20 22.93	−19 7.1	1.806	2.713	11.5	21.7
9 8	20 18.56	−19 41.5	1.882	2.706	14.8	21.9
376895 2001 XF_{142}			7 31.9 210°.41		1°.2/ 1.7 17	
6 30	21 9.55	−13 14.8	2.046	2.919	12.3	22.0
7 10	21 3.57	−13 30.9	1.968	2.913	9.0	21.8
7 20	20 55.76	−13 55.9	1.914	2.907	5.3	21.6
7 30	20 46.78	−14 27.1	1.887	2.900	1.6	21.3
8 9	20 37.52	−15 0.9	1.888	2.893	3.3	21.4
8 19	20 28.89	−15 33.9	1.917	2.885	7.1	21.6
8 29	20 21.76	−16 2.9	1.971	2.877	10.7	21.8
9 8	20 16.76	−16 26.0	2.048	2.868	13.8	22.0
384601 2010 OW_{101}			7 31.9 108°.85		1°.2/ 1.8 17	
6 30	21 6.88	−11 37.2	1.980	2.854	12.5	21.5
7 10	21 1.59	−12 20.5	1.919	2.864	9.2	21.3
7 20	20 54.61	−13 15.1	1.882	2.874	5.4	21.1
7 30	20 46.59	−14 17.1	1.871	2.884	1.7	20.9
8 9	20 38.40	−15 21.6	1.887	2.893	3.2	21.0
8 19	20 30.92	−16 23.6	1.932	2.902	7.0	21.3
8 29	20 24.94	−17 19.1	2.002	2.911	10.4	21.5
9 8	20 21.02	−18 5.5	2.094	2.920	13.4	21.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V
515419 2013 HX_{100}			7 31.9 294°.88		4°.8/28.5 18	
	h m	° ′			°	m
6 30	21 8.95	−31 5.1	2.197	3.088	10.8	21.7
7 10	21 3.19	−31 48.7	2.130	3.080	8.1	21.6
7 20	20 55.55	−32 28.0	2.088	3.073	5.7	21.4
7 30	20 46.75	−32 57.7	2.072	3.065	4.8	21.3
8 9	20 37.72	−33 13.8	2.083	3.057	6.3	21.4
8 19	20 29.43	−33 14.2	2.119	3.050	9.0	21.6
8 29	20 22.77	−32 59.2	2.180	3.042	11.7	21.7
9 8	20 18.32	−32 30.7	2.262	3.035	14.2	21.9
364631 2007 TA_{82}			7 31.9 0°.61		3°.5/30.6 17	
6 30	21 7.05	−23 8.9	0.897	1.828	18.4	20.1
7 10	21 3.29	−23 33.9	0.850	1.825	13.3	19.8
7 20	20 56.14	−24 2.1	0.820	1.823	7.7	19.5
7 30	20 46.87	−24 25.4	0.810	1.822	3.5	19.3
8 9	20 37.31	−24 36.1	0.820	1.823	7.0	19.5
8 19	20 29.34	−24 30.5	0.851	1.826	12.6	19.8
8 29	20 24.45	−24 8.3	0.901	1.830	17.7	20.1
9 8	20 23.40	−23 31.7	0.966	1.836	22.0	20.4
21021 1988 XL_{2}			7 31.9 296°.26		7°.8/25.4 18	
6 30	21 10.72	−39 12.3	2.139	3.019	11.5	17.7
7 10	21 4.86	−40 27.1	2.068	2.997	9.5	17.5
7 20	20 56.69	−41 33.1	2.020	2.975	8.1	17.4
7 30	20 46.96	−42 22.8	1.997	2.953	8.0	17.3
8 9	20 36.78	−42 50.7	1.999	2.932	9.4	17.4
8 19	20 27.34	−42 54.4	2.025	2.910	11.6	17.5
8 29	20 19.77	−42 34.7	2.073	2.888	14.0	17.6
9 8	20 14.85	−41 55.1	2.139	2.866	16.2	17.7
361497 2007 EM_{31}			7 31.9 219°.61		1°.5/ 2.3 18	
6 30	21 4.78	−10 12.5	2.530	3.392	10.5	21.5
7 10	20 59.90	−10 51.2	2.449	3.387	7.8	21.3
7 20	20 53.62	−11 40.3	2.393	3.381	4.8	21.1
7 30	20 46.45	−12 37.2	2.364	3.375	1.9	20.9
8 9	20 39.04	−13 38.1	2.364	3.369	2.8	21.0
8 19	20 32.09	−14 39.3	2.393	3.362	5.9	21.2
8 29	20 26.24	−15 37.0	2.449	3.355	8.9	21.4
9 8	20 22.01	−16 28.4	2.528	3.348	11.5	21.5
95933 2003 KF			7 31.9 0°.16		1°.3/ 1.9 18	
6 30	21 3.80	−10 57.8	1.880	2.760	12.8	19.0
7 10	20 59.56	−11 47.4	1.811	2.759	9.4	18.8
7 20	20 53.56	−12 50.4	1.765	2.758	5.6	18.6
7 30	20 46.46	−14 2.9	1.745	2.758	1.8	18.3
8 9	20 39.10	−15 19.1	1.752	2.758	3.3	18.4
8 19	20 32.38	−16 33.5	1.786	2.759	7.2	18.7
8 29	20 27.13	−17 41.1	1.845	2.760	10.9	18.9
9 8	20 23.97	−18 38.3	1.927	2.762	14.0	19.1
420470 2012 DW_{88}			7 31.9 150°.02		3°.0/30.2 17	
6 30	21 13.21	−23 19.1	1.614	2.509	13.7	21.7
7 10	21 6.56	−24 6.2	1.557	2.515	9.9	21.5
7 20	20 57.55	−24 55.1	1.524	2.521	5.7	21.3
7 30	20 47.10	−25 39.2	1.516	2.526	3.0	21.1
8 9	20 36.45	−26 12.8	1.535	2.531	5.5	21.3
8 19	20 26.87	−26 32.2	1.580	2.535	9.6	21.5
8 29	20 19.43	−26 36.8	1.648	2.539	13.3	21.8
9 8	20 14.81	−26 27.9	1.736	2.543	16.5	22.0
322748 2000 YQ_{27}			7 31.9 259°.46		0°.7/ 1.4 17	
6 30	21 8.22	−15 6.5	2.743	3.610	9.7	21.9
7 10	21 2.35	−15 11.0	2.643	3.586	7.1	21.7
7 20	20 55.02	−15 20.6	2.568	3.561	4.1	21.5
7 30	20 46.70	−15 33.5	2.521	3.535	1.1	21.2
8 9	20 38.07	−15 47.4	2.504	3.509	2.6	21.3
8 19	20 29.82	−16 0.3	2.517	3.482	5.9	21.5
8 29	20 22.63	−16 10.5	2.556	3.455	8.9	21.6
9 8	20 17.07	−16 16.8	2.619	3.427	11.5	21.8
444080 2004 RV_{335}			7 31.9 321°.96		8°.5/ 7.3 15	
6 30	21 3.34	+ 6 59.1	2.065	2.858	15.0	21.4
7 10	20 59.15	+ 7 26.2	1.982	2.847	12.9	21.2
7 20	20 53.33	+ 7 31.6	1.919	2.837	10.7	21.1
7 30	20 46.43	+ 7 13.4	1.878	2.826	9.0	20.9
8 9	20 39.22	+ 6 32.3	1.861	2.816	8.5	20.9
8 19	20 32.51	+ 5 31.6	1.868	2.807	9.5	20.9
8 29	20 27.10	+ 4 16.5	1.900	2.797	11.5	21.0
9 8	20 23.58	+ 2 53.8	1.954	2.788	13.9	21.2
343894 2011 JH_{2}			7 31.9 80°.37		6°.2/28.7 17	
6 30	21 14.26	−32 10.3	1.642	2.537	13.6	20.2
7 10	21 7.26	−33 2.6	1.601	2.552	10.2	20.0
7 20	20 57.86	−33 47.2	1.583	2.567	7.3	19.9
7 30	20 47.14	−34 16.8	1.590	2.582	6.2	19.8
8 9	20 36.43	−34 26.7	1.623	2.597	7.9	20.0
8 19	20 27.02	−34 16.0	1.681	2.612	10.9	20.2
8 29	20 19.96	−33 46.7	1.761	2.626	13.9	20.4
9 8	20 15.81	−33 2.9	1.860	2.641	16.5	20.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V
482444 2012 DV_{29}			7 31.9 223°.49	5°.9/25.9 18		
	h m	° ′			°	m
6 30	21 10.73	−39 7.1	3.020	3.887	8.9	22.3
7 10	21 4.23	−40 7.2	2.953	3.875	7.3	22.1
7 20	20 56.08	−40 59.8	2.912	3.864	6.1	22.0
7 30	20 46.88	−41 39.9	2.897	3.851	6.0	22.0
8 9	20 37.41	−42 4.1	2.910	3.838	7.0	22.1
8 19	20 28.50	−42 11.0	2.949	3.825	8.7	22.2
8 29	20 20.94	−42 1.1	3.012	3.811	10.5	22.3
9 8	20 15.29	−41 36.4	3.096	3.797	12.1	22.4
220986 2005 ND_{29}			7 31.9 320°.85	2°.5/ 2.0 18		
6 30	21 5.45	−11 56.6	1.215	2.117	16.8	19.6
7 10	21 1.75	−11 58.5	1.133	2.092	12.7	19.3
7 20	20 55.29	−12 16.2	1.071	2.067	7.8	19.0
7 30	20 46.82	−12 47.7	1.030	2.042	3.0	18.6
8 9	20 37.61	−13 28.4	1.012	2.019	4.8	18.7
8 19	20 29.14	−14 12.3	1.017	1.996	10.3	18.9
8 29	20 22.89	−14 53.4	1.043	1.975	15.6	19.1
9 8	20 19.88	−15 26.8	1.086	1.955	20.2	19.3
144343 2004 DM_{33}			7 31.9 93°.72	1°.4/31.1 17		
6 30	21 11.59	−19 33.4	1.548	2.443	14.2	20.0
7 10	21 5.33	−20 9.0	1.497	2.456	10.1	19.8
7 20	20 56.82	−20 49.6	1.470	2.469	5.6	19.5
7 30	20 47.00	−21 29.7	1.467	2.481	1.5	19.3
8 9	20 37.08	−22 3.9	1.491	2.494	4.5	19.5
8 19	20 28.26	−22 28.4	1.541	2.506	8.9	19.8
8 29	20 21.56	−22 41.5	1.614	2.518	12.8	20.1
9 8	20 17.58	−22 43.2	1.708	2.530	16.1	20.3
476177 2007 TK_{432}			7 31.9 272°.27	1°.8/ 2.0 18		
6 30	21 7.34	−11 57.9	1.929	2.804	12.8	21.8
7 10	21 2.12	−12 7.5	1.849	2.794	9.5	21.6
7 20	20 55.03	−12 27.6	1.793	2.784	5.7	21.3
7 30	20 46.74	−12 55.7	1.762	2.774	2.2	21.1
8 9	20 38.12	−13 28.5	1.759	2.764	3.5	21.2
8 19	20 30.13	−14 2.3	1.782	2.754	7.3	21.4
8 29	20 23.65	−14 33.6	1.831	2.743	11.1	21.6
9 8	20 19.33	−14 59.9	1.901	2.733	14.3	21.8
261752 2006 BX_{25}			7 31.9 151°.21	0°.9/ 1.7 18		
6 30	21 4.80	−12 56.5	2.624	3.493	10.0	20.9
7 10	20 59.83	−13 24.8	2.554	3.497	7.3	20.7
7 20	20 53.55	−14 0.6	2.509	3.501	4.3	20.5
7 30	20 46.48	−14 41.4	2.491	3.504	1.3	20.3
8 9	20 39.26	−15 23.9	2.503	3.508	2.6	20.4
8 19	20 32.54	−16 5.3	2.542	3.511	5.6	20.6
8 29	20 26.92	−16 42.8	2.609	3.514	8.5	20.8
9 8	20 22.88	−17 14.5	2.699	3.517	11.0	21.0
61622 2000 QD_{101}			7 31.9 274°.11	1°.1/ 1.8 18		
6 30	21 5.05	−11 40.4	2.144	3.018	11.7	18.9
7 10	21 0.35	−12 24.3	2.064	3.009	8.6	18.7
7 20	20 54.01	−13 19.8	2.007	2.999	5.1	18.4
7 30	20 46.58	−14 23.4	1.977	2.990	1.6	18.2
8 9	20 38.85	−15 30.5	1.974	2.980	3.0	18.3
8 19	20 31.63	−16 36.4	2.000	2.970	6.8	18.5
8 29	20 25.72	−17 36.8	2.052	2.961	10.2	18.7
9 8	20 21.72	−18 28.6	2.126	2.951	13.2	18.9
376120 2011 AP_{12}			7 31.9 194°.19	1°.7/ 1.9 17		
6 30	21 10.94	−12 17.7	1.962	2.831	12.8	21.8
7 10	21 4.62	−12 26.9	1.887	2.829	9.5	21.6
7 20	20 56.40	−12 45.6	1.836	2.827	5.7	21.3
7 30	20 46.97	−13 11.6	1.812	2.824	2.1	21.1
8 9	20 37.27	−13 41.2	1.815	2.820	3.5	21.2
8 19	20 28.28	−14 11.1	1.846	2.815	7.3	21.4
8 29	20 20.88	−14 38.2	1.903	2.810	11.0	21.6
9 8	20 15.72	−15 0.3	1.982	2.805	14.2	21.8
521777 2015 SB_{27}			7 31.9 307°.38	2°.8/29.6 18		
6 30	21 6.05	−24 11.8	2.262	3.155	10.4	21.1
7 10	21 1.03	−25 6.5	2.195	3.152	7.5	20.9
7 20	20 54.35	−26 2.6	2.153	3.149	4.5	20.7
7 30	20 46.64	−26 55.2	2.138	3.146	2.8	20.6
8 9	20 38.69	−27 39.7	2.152	3.143	4.7	20.8
8 19	20 31.35	−28 13.0	2.191	3.140	7.7	20.9
8 29	20 25.40	−28 33.5	2.256	3.137	10.7	21.1
9 8	20 21.41	−28 41.4	2.343	3.134	13.2	21.3
344664 2003 SJ_{104}			7 31.9 306°.96	1°.8/30.9 18		
6 30	21 8.77	−21 0.1	1.582	2.483	13.7	20.4
7 10	21 3.68	−21 24.9	1.499	2.460	9.9	20.1
7 20	20 56.17	−21 54.5	1.438	2.437	5.6	19.8
7 30	20 46.97	−22 23.8	1.402	2.415	1.9	19.5
8 9	20 37.23	−22 47.5	1.391	2.393	4.8	19.6
8 19	20 28.22	−23 1.7	1.405	2.371	9.5	19.8
8 29	20 21.16	−23 4.3	1.443	2.350	13.8	20.0
9 8	20 16.88	−22 55.1	1.499	2.329	17.6	20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V
521748 2015 RP_{273}			7 31.9 0°.14	4°.9/28.7 18		
	h m	° ′			°	m
6 30	21 9.66	−31 29.8	2.150	3.041	11.0	21.0
7 10	21 3.68	−32 9.6	2.091	3.041	8.3	20.8
7 20	20 55.84	−32 44.3	2.056	3.040	5.8	20.6
7 30	20 46.88	−33 8.6	2.048	3.040	4.9	20.6
8 9	20 37.77	−33 18.8	2.066	3.040	6.4	20.7
8 19	20 29.49	−33 13.3	2.110	3.041	9.0	20.8
8 29	20 22.90	−32 52.6	2.178	3.041	11.7	21.0
9 8	20 18.57	−32 19.1	2.267	3.041	14.1	21.2
188771 2005 UE_{411}			7 31.9 116°.51	7°.4/25.3 18		
6 30	21 10.23	−39 6.8	2.301	3.179	10.9	20.6
7 10	21 4.24	−40 31.5	2.254	3.182	8.9	20.5
7 20	20 56.22	−41 46.5	2.232	3.186	7.6	20.4
7 30	20 46.95	−42 45.1	2.236	3.189	7.5	20.4
8 9	20 37.44	−43 22.8	2.266	3.192	8.8	20.5
8 19	20 28.74	−43 37.9	2.320	3.196	10.7	20.6
8 29	20 21.80	−43 31.4	2.396	3.199	12.7	20.8
9 8	20 17.25	−43 6.6	2.490	3.202	14.5	20.9
213545 2002 JQ_{86}			7 31.9 166°.15	2°.7/ 2.4 17		
6 30	21 11.13	− 9 54.1	1.646	2.518	14.8	20.5
7 10	21 4.98	−10 1.0	1.580	2.521	11.1	20.3
7 20	20 56.68	−10 21.5	1.536	2.524	6.9	20.1
7 30	20 47.03	−10 53.1	1.517	2.527	3.2	19.8
8 9	20 37.13	−11 31.7	1.525	2.529	4.2	19.9
8 19	20 28.10	−12 12.9	1.559	2.530	8.2	20.2
8 29	20 20.94	−12 52.2	1.618	2.532	12.2	20.4
9 8	20 16.34	−13 26.3	1.698	2.532	15.6	20.6
399951 2006 AB_{46}			7 31.9 98°.76	3°.1/ 2.8 18		
6 30	21 8.37	− 8 50.0	2.408	3.261	11.3	20.7
7 10	21 2.39	− 8 21.6	2.339	3.268	8.6	20.5
7 20	20 54.99	− 8 2.0	2.295	3.274	5.7	20.3
7 30	20 46.74	− 7 50.6	2.278	3.281	3.4	20.2
8 9	20 38.39	− 7 46.3	2.290	3.287	3.8	20.2
8 19	20 30.64	− 7 47.3	2.329	3.294	6.3	20.4
8 29	20 24.18	− 7 51.8	2.395	3.300	9.1	20.6
9 8	20 19.47	− 7 57.5	2.484	3.306	11.7	20.8
254139 2004 PL_{57}			7 31.9 324°.60	1°.0/ 1.5 18		
6 30	21 7.27	−15 12.1	1.924	2.808	12.4	20.3
7 10	21 2.06	−15 7.2	1.848	2.799	9.1	20.1
7 20	20 55.00	−15 9.0	1.795	2.790	5.3	19.8
7 30	20 46.77	−15 15.4	1.767	2.781	1.4	19.6
8 9	20 38.27	−15 23.7	1.767	2.773	3.3	19.7
8 19	20 30.45	−15 31.4	1.793	2.764	7.3	19.9
8 29	20 24.17	−15 36.5	1.844	2.757	11.0	20.1
9 8	20 20.08	−15 37.2	1.917	2.749	14.2	20.3
187676 2008 CG_{91}			7 31.9 307°.70	0°.4/ 1.2 18		
6 30	21 6.15	−14 59.5	1.972	2.856	12.1	20.5
7 10	21 1.23	−15 25.8	1.898	2.850	8.8	20.3
7 20	20 54.53	−16 0.5	1.848	2.845	5.0	20.0
7 30	20 46.69	−16 40.4	1.825	2.839	1.0	19.7
8 9	20 38.59	−17 21.1	1.828	2.833	3.3	19.9
8 19	20 31.12	−17 58.9	1.858	2.828	7.2	20.1
8 29	20 25.14	−18 30.6	1.913	2.823	10.8	20.3
9 8	20 21.25	−18 54.3	1.990	2.818	13.9	20.5
476861 2008 UE_{350}			7 31.9 197°.42	8°.1/25.9 16		
6 30	21 13.18	−38 9.0	1.909	2.792	12.5	21.2
7 10	21 6.68	−39 33.4	1.857	2.791	10.1	21.0
7 20	20 57.73	−40 47.7	1.830	2.790	8.4	20.9
7 30	20 47.22	−41 43.6	1.827	2.788	8.3	20.9
8 9	20 36.42	−42 15.2	1.849	2.787	9.7	21.0
8 19	20 26.63	−42 20.7	1.896	2.785	12.1	21.1
8 29	20 19.02	−42 2.0	1.963	2.783	14.5	21.3
9 8	20 14.29	−41 23.4	2.049	2.781	16.7	21.5
127300 2002 JN_{83}			7 31.9 40°.61	2°.4/ 2.5 18		
6 30	21 5.59	−10 7.6	2.051	2.921	12.3	19.7
7 10	21 0.64	−10 12.1	1.988	2.928	9.2	19.5
7 20	20 54.10	−10 27.3	1.948	2.936	5.8	19.3
7 30	20 46.61	−10 51.2	1.935	2.944	2.7	19.2
8 9	20 38.99	−11 20.9	1.948	2.952	3.5	19.2
8 19	20 32.04	−11 53.0	1.988	2.960	6.7	19.5
8 29	20 26.51	−12 24.2	2.054	2.968	10.0	19.7
9 8	20 22.91	−12 51.9	2.142	2.977	12.8	19.9
504361 2007 UY_{86}			7 31.9 231°.85	0°.9/ 1.5 17		
6 30	21 11.10	−13 46.4	1.685	2.566	14.0	22.8
7 10	21 5.12	−14 11.1	1.606	2.555	10.3	22.5
7 20	20 56.87	−14 46.9	1.550	2.544	6.0	22.2
7 30	20 47.10	−15 30.2	1.519	2.533	1.5	21.9
8 9	20 36.88	−16 15.9	1.515	2.521	3.8	22.1
8 19	20 27.38	−16 59.1	1.538	2.508	8.4	22.3
8 29	20 19.71	−17 36.1	1.585	2.495	12.7	22.5
9 8	20 14.64	−18 4.2	1.653	2.481	16.3	22.7

260573 2005 EX_{265} 7 31.9 78°.28 0°.8/ 1.3 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 12.10	−14 33.7	1.388	2.279	15.8	20.9
7 10	21 5.75	−14 54.1	1.344	2.299	11.4	20.7
7 20	20 57.08	−15 25.1	1.321	2.318	6.5	20.4
7 30	20 47.09	−16 1.8	1.323	2.337	1.5	20.1
8 9	20 37.09	−16 39.0	1.351	2.357	4.0	20.4
8 19	20 28.33	−17 11.8	1.403	2.376	8.8	20.7
8 29	20 21.84	−17 37.3	1.479	2.394	13.0	21.0
9 8	20 18.18	−17 53.7	1.575	2.413	16.5	21.3

369689 2012 BC_{75} 7 31.9 97°.34 4°.8/ 3.8 17

6 30	21 9.91	− 4 57.0	1.483	2.345	16.6	21.5
7 10	21 4.16	− 4 59.1	1.427	2.358	12.8	21.3
7 20	20 56.22	− 5 20.7	1.393	2.370	8.8	21.1
7 30	20 46.97	− 6 0.2	1.382	2.382	5.4	20.9
8 9	20 37.55	− 6 53.0	1.396	2.394	5.5	21.0
8 19	20 29.13	− 7 53.3	1.435	2.406	8.8	21.2
8 29	20 22.71	− 8 54.8	1.499	2.418	12.6	21.4
9 8	20 18.93	− 9 52.1	1.583	2.429	16.0	21.7

118266 1998 HQ_{17} 7 31.9 21°.18 1°.4/ 1.7 18

6 30	21 7.21	−14 18.9	1.666	2.555	13.7	18.7
7 10	21 2.08	−14 13.4	1.609	2.562	10.0	18.5
7 20	20 55.00	−14 16.5	1.574	2.569	5.9	18.3
7 30	20 46.77	−14 25.8	1.563	2.576	1.8	18.0
8 9	20 38.42	−14 38.1	1.579	2.585	3.6	18.2
8 19	20 30.96	−14 50.5	1.620	2.594	7.7	18.5
8 29	20 25.28	−15 0.3	1.686	2.603	11.6	18.7
9 8	20 21.95	−15 5.6	1.772	2.613	14.8	19.0

97504 2000 CO_{97} 7 31.9 260°.41 5°.7/ 6.7 18

6 30	21 4.06	+ 5 13.9	2.864	3.646	11.5	20.4
7 10	20 59.35	+ 4 59.7	2.760	3.625	9.7	20.2
7 20	20 53.37	+ 4 28.3	2.678	3.603	7.7	20.1
7 30	20 46.52	+ 3 39.4	2.621	3.581	6.2	19.9
8 9	20 39.38	+ 2 34.7	2.591	3.559	5.7	19.9
8 19	20 32.54	+ 1 17.3	2.590	3.536	6.8	19.9
8 29	20 26.61	− 0 8.4	2.616	3.512	8.8	20.0
9 8	20 22.08	− 1 37.4	2.667	3.488	11.0	20.1

221668 2007 CU_{51} 7 31.9 159°.47 0°.3/31.8 18

6 30	21 9.32	−16 4.9	1.757	2.644	13.2	20.7
7 10	21 3.64	−16 47.8	1.693	2.647	9.5	20.5
7 20	20 55.93	−17 39.6	1.652	2.650	5.3	20.2
7 30	20 46.95	−18 35.2	1.637	2.652	0.8	19.9
8 9	20 37.71	−19 29.2	1.650	2.654	3.7	20.2
8 19	20 29.28	−20 16.7	1.689	2.656	8.0	20.4
8 29	20 22.61	−20 54.5	1.753	2.658	11.9	20.7
9 8	20 18.37	−21 21.1	1.838	2.659	15.1	20.9

286744 2002 GH_{145} 7 31.9 118°.06 7°.1/ 5.2 17

6 30	21 9.37	+ 0 11.5	1.520	2.361	17.4	21.3
7 10	21 3.80	+ 0 25.0	1.459	2.369	14.0	21.1
7 20	20 56.06	+ 0 14.9	1.418	2.377	10.5	20.9
7 30	20 46.97	− 0 18.7	1.399	2.384	7.7	20.8
8 9	20 37.64	− 1 12.8	1.405	2.391	7.3	20.8
8 19	20 29.21	− 2 21.5	1.436	2.398	9.6	20.9
8 29	20 22.71	− 3 37.5	1.490	2.405	12.9	21.1
9 8	20 18.78	− 4 53.4	1.565	2.412	16.2	21.4

378319 2007 GM_{5} 7 31.9 80°.65 1°.2/31.2 17

6 30	21 10.06	−18 54.9	1.621	2.515	13.7	21.0
7 10	21 4.19	−19 34.5	1.570	2.529	9.8	20.8
7 20	20 56.20	−20 19.8	1.543	2.542	5.4	20.6
7 30	20 46.98	−21 5.3	1.541	2.555	1.3	20.4
8 9	20 37.65	−21 45.7	1.565	2.568	4.3	20.6
8 19	20 29.33	−22 16.9	1.616	2.581	8.5	20.9
8 29	20 22.99	−22 36.8	1.690	2.594	12.3	21.1
9 8	20 19.21	−22 45.3	1.785	2.607	15.5	21.4

311285 2005 FE_{1} 7 31.9 85°.00 1°.0/31.3 17

6 30	21 10.36	−15 42.4	1.415	2.310	15.3	20.4
7 10	21 4.62	−17 3.9	1.370	2.328	10.9	20.2
7 20	20 56.53	−18 36.6	1.347	2.346	6.0	20.0
7 30	20 47.04	−20 12.2	1.350	2.364	1.2	19.7
8 9	20 37.41	−21 41.7	1.378	2.382	4.6	20.0
8 19	20 28.90	−22 58.1	1.433	2.399	9.3	20.3
8 29	20 22.57	−23 57.4	1.511	2.416	13.4	20.6
9 8	20 19.07	−24 38.7	1.609	2.433	16.8	20.9

312671 2010 LP_{103} 7 31.9 335°.81 1°.7/ 2.2 18

6 30	21 4.38	−10 36.1	1.881	2.759	12.9	20.2
7 10	21 0.04	−11 13.6	1.807	2.753	9.6	20.0
7 20	20 53.91	−12 4.4	1.756	2.748	5.8	19.8
7 30	20 46.64	−13 5.3	1.731	2.743	2.2	19.5
8 9	20 39.07	−14 11.3	1.733	2.738	3.4	19.6
8 19	20 32.12	−15 17.1	1.761	2.734	7.3	19.8
8 29	20 26.65	−16 17.9	1.814	2.730	11.0	20.1
9 8	20 23.28	−17 10.1	1.890	2.727	14.2	20.3

472159 2014 DQ_{18} 7 31.9 250°.84 0°.0/31.8 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 10.18	−16 53.5	1.986	2.867	12.2	21.5
7 10	21 4.22	−17 8.5	1.901	2.852	8.8	21.3
7 20	20 56.28	−17 29.9	1.841	2.837	5.0	21.0
7 30	20 47.04	−17 54.3	1.806	2.821	0.8	20.7
8 9	20 37.41	−18 18.0	1.800	2.805	3.4	20.8
8 19	20 28.40	−18 37.9	1.821	2.788	7.6	21.1
8 29	20 20.95	−18 51.7	1.867	2.771	11.4	21.3
9 8	20 15.76	−18 58.3	1.936	2.754	14.6	21.5

447324 2005 XD_{86} 7 31.9 217°.13 4°.1/27.9 18

6 30	21 7.57	−29 31.9	2.688	3.574	9.2	21.5
7 10	21 2.04	−30 42.9	2.619	3.568	6.9	21.4
7 20	20 54.93	−31 52.1	2.576	3.561	4.8	21.2
7 30	20 46.80	−32 54.4	2.562	3.554	4.1	21.2
8 9	20 38.40	−33 45.4	2.576	3.546	5.6	21.3
8 19	20 30.48	−34 22.4	2.617	3.538	7.9	21.4
8 29	20 23.82	−34 44.2	2.683	3.530	10.3	21.5
9 8	20 18.97	−34 51.7	2.771	3.521	12.3	21.7

517237 2014 CS_{24} 7 31.9 158°.32 2°.6/29.8 18

6 30	21 8.60	−22 15.8	2.085	2.976	11.3	21.1
7 10	21 2.96	−23 27.7	2.024	2.980	8.1	20.9
7 20	20 55.51	−24 42.9	1.987	2.984	4.7	20.7
7 30	20 46.90	−25 55.4	1.978	2.988	2.6	20.5
8 9	20 38.05	−26 59.5	1.998	2.991	4.8	20.7
8 19	20 29.88	−27 51.0	2.044	2.994	8.1	20.9
8 29	20 23.26	−28 27.8	2.116	2.996	11.3	21.1
9 8	20 18.80	−28 49.9	2.208	2.998	14.0	21.3

510161 2010 XR_{56} 7 31.9 291°.93 4°.6/29.7 17

6 30	21 13.41	−26 19.2	1.414	2.317	14.8	21.4
7 10	21 7.57	−27 2.6	1.327	2.288	11.0	21.1
7 20	20 58.66	−27 47.1	1.262	2.258	6.9	20.8
7 30	20 47.49	−28 24.6	1.221	2.228	4.6	20.6
8 9	20 35.46	−28 47.5	1.205	2.197	7.3	20.6
8 19	20 24.23	−28 50.9	1.213	2.167	11.9	20.8
8 29	20 15.38	−28 34.1	1.242	2.136	16.5	21.0
9 8	20 10.00	−27 59.6	1.289	2.106	20.6	21.2

395664 2011 WW_{84} 7 31.9 279°.57 0°.2/31.8 18

6 30	21 6.53	−16 44.9	2.106	2.991	11.4	21.5
7 10	21 1.42	−17 14.7	2.036	2.989	8.2	21.3
7 20	20 54.62	−17 51.1	1.989	2.987	4.6	21.1
7 30	20 46.77	−18 30.4	1.970	2.984	0.7	20.8
8 9	20 38.70	−19 8.7	1.978	2.982	3.2	21.0
8 19	20 31.25	−19 42.4	2.013	2.980	7.0	21.2
8 29	20 25.23	−20 9.1	2.074	2.978	10.4	21.4
9 8	20 21.21	−20 27.4	2.156	2.976	13.3	21.6

215673 2003 UO_{379} 7 31.9 93°.41 3°.5/30.1 17

6 30	21 13.95	−23 50.2	1.435	2.335	14.8	21.1
7 10	21 7.21	−24 42.6	1.392	2.352	10.6	20.8
7 20	20 57.97	−25 35.9	1.371	2.368	6.2	20.6
7 30	20 47.31	−26 22.6	1.375	2.385	3.5	20.5
8 9	20 36.61	−26 56.3	1.406	2.401	6.0	20.7
8 19	20 27.21	−27 13.8	1.461	2.417	10.1	21.0
8 29	20 20.22	−27 15.1	1.538	2.432	14.0	21.3
9 8	20 16.25	−27 2.2	1.635	2.447	17.2	21.5

91822 1999 TU_{277} 7 31.9 140°.64 1°.9/ 2.5 18

6 30	21 5.84	−10 5.4	2.593	3.452	10.4	20.3
7 10	21 0.57	−10 17.2	2.525	3.459	7.8	20.2
7 20	20 54.01	−10 37.6	2.481	3.466	4.9	20.0
7 30	20 46.67	−11 5.0	2.464	3.473	2.3	19.8
8 9	20 39.19	−11 36.8	2.476	3.480	2.9	19.9
8 19	20 32.24	−12 10.2	2.517	3.486	5.7	20.1
8 29	20 26.43	−12 42.5	2.584	3.492	8.5	20.3
9 8	20 22.20	−13 11.6	2.675	3.497	10.9	20.4

73819 Isaootuki 7 31.9 174°.09 1°.8/30.9 18

6 30	21 12.12	−20 50.5	1.856	2.744	12.6	19.8
7 10	21 5.61	−21 28.7	1.792	2.747	9.0	19.6
7 20	20 57.04	−22 10.5	1.751	2.749	5.1	19.3
7 30	20 47.18	−22 50.9	1.737	2.750	1.8	19.1
8 9	20 37.10	−23 24.9	1.751	2.751	4.4	19.3
8 19	20 27.86	−23 49.2	1.792	2.752	8.3	19.5
8 29	20 20.44	−24 2.0	1.858	2.752	11.9	19.8
9 8	20 15.47	−24 3.7	1.945	2.751	15.0	20.0

215969 2005 QJ_{55} 7 31.9 4°.47 0°.3/31.7 18

6 30	21 5.72	−16 41.4	1.760	2.654	12.9	20.0
7 10	21 1.08	−17 17.2	1.696	2.654	9.2	19.8
7 20	20 54.53	−18 1.0	1.656	2.654	5.1	19.5
7 30	20 46.77	−18 48.4	1.640	2.655	0.8	19.2
8 9	20 38.79	−19 34.4	1.651	2.656	3.7	19.5
8 19	20 31.56	−20 14.6	1.688	2.658	7.9	19.7
8 29	20 26.00	−20 45.9	1.750	2.660	11.6	20.0
9 8	20 22.73	−21 6.8	1.832	2.663	14.8	20.2

130497 2000 QY_{127} 7 31.9 295°.76 2°.7/ 2.5 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 7.58	− 9 50.1	1.639	2.516	14.5	19.9
7 10	21 2.81	−10 0.2	1.544	2.487	11.1	19.6
7 20	20 55.74	−10 25.2	1.470	2.459	7.0	19.3
7 30	20 47.02	−11 3.5	1.420	2.430	3.2	19.0
8 9	20 37.63	−11 51.1	1.396	2.401	4.3	19.0
8 19	20 28.74	−12 43.2	1.398	2.372	8.7	19.2
8 29	20 21.52	−13 34.4	1.424	2.343	13.1	19.4
9 8	20 16.88	−14 20.2	1.470	2.314	17.1	19.6

98702 2000 XX_{31} 7 31.9 233°.39 7°.1/27.8 18

6 30	21 13.98	−35 14.8	1.765	2.654	13.1	19.3
7 10	21 7.26	−36 11.6	1.710	2.653	10.2	19.1
7 20	20 58.07	−36 59.4	1.678	2.652	7.9	19.0
7 30	20 47.36	−37 30.6	1.670	2.651	7.2	19.0
8 9	20 36.45	−37 40.0	1.689	2.649	8.8	19.1
8 19	20 26.67	−37 26.3	1.731	2.648	11.5	19.2
8 29	20 19.15	−36 51.5	1.796	2.647	14.3	19.4
9 8	20 14.56	−35 59.9	1.880	2.645	16.9	19.6

191046 2002 CN_{39} 7 31.9 233°.26 1°.1/ 1.7 18

6 30	21 8.38	−12 56.2	1.926	2.803	12.7	20.3
7 10	21 2.93	−13 24.3	1.848	2.794	9.3	20.1
7 20	20 55.57	−14 3.0	1.793	2.786	5.5	19.8
7 30	20 46.97	−14 49.1	1.764	2.777	1.6	19.6
8 9	20 38.02	−15 38.1	1.763	2.768	3.4	19.7
8 19	20 29.69	−16 25.5	1.789	2.759	7.4	19.9
8 29	20 22.91	−17 7.7	1.840	2.749	11.2	20.1
9 8	20 18.34	−17 42.0	1.913	2.739	14.5	20.3

318374 2004 VN_{63} 7 31.9 290°.38 0°.5/ 1.3 18

6 30	21 7.63	−14 34.0	1.669	2.558	13.7	20.5
7 10	21 2.68	−15 2.1	1.590	2.544	10.0	20.3
7 20	20 55.56	−15 41.1	1.533	2.530	5.8	20.0
7 30	20 46.98	−16 27.2	1.501	2.516	1.2	19.7
8 9	20 37.95	−17 15.2	1.495	2.501	3.7	19.8
8 19	20 29.60	−18 0.2	1.516	2.487	8.4	20.1
8 29	20 23.00	−18 38.0	1.560	2.473	12.6	20.3
9 8	20 18.91	−19 6.2	1.625	2.460	16.2	20.5

510865 2013 CJ_{97} 7 31.9 55°.40 1°.3/ 1.9 18

6 30	21 5.26	−11 22.1	2.079	2.953	12.0	21.0
7 10	21 0.51	−12 3.9	2.010	2.954	8.8	20.8
7 20	20 54.12	−12 57.0	1.964	2.956	5.3	20.6
7 30	20 46.72	−13 58.1	1.946	2.958	1.7	20.3
8 9	20 39.10	−15 2.3	1.955	2.960	3.1	20.4
8 19	20 32.08	−16 5.1	1.991	2.962	6.7	20.7
8 29	20 26.43	−17 2.3	2.054	2.964	10.1	20.9
9 8	20 22.72	−17 51.1	2.139	2.967	13.1	21.1

411652 2011 VX_{11} 7 31.9 193°.87 1°.6/31.1 17

6 30	21 12.12	−19 22.2	1.364	2.264	15.4	21.4
7 10	21 6.20	−20 2.7	1.303	2.264	11.1	21.1
7 20	20 57.61	−20 50.5	1.264	2.263	6.2	20.9
7 30	20 47.31	−21 38.9	1.249	2.263	1.7	20.6
8 9	20 36.68	−22 21.1	1.259	2.262	5.1	20.8
8 19	20 27.14	−22 52.2	1.294	2.261	10.0	21.1
8 29	20 19.95	−23 9.6	1.351	2.259	14.5	21.3
9 8	20 15.87	−23 13.3	1.427	2.258	18.3	21.6

167851 2005 CJ_{76} 7 31.9 119°.58 1°.1/ 1.6 16

6 30	21 9.01	−14 6.0	1.912	2.791	12.7	20.5
7 10	21 3.25	−14 13.7	1.848	2.796	9.3	20.3
7 20	20 55.66	−14 29.7	1.806	2.800	5.4	20.1
7 30	20 46.98	−14 51.1	1.791	2.804	1.6	19.8
8 9	20 38.12	−15 14.6	1.803	2.809	3.3	19.9
8 19	20 30.03	−15 37.1	1.842	2.813	7.2	20.2
8 29	20 23.55	−15 55.8	1.907	2.817	10.8	20.4
9 8	20 19.27	−16 9.1	1.993	2.821	13.9	20.6

512068 2015 MG_{132} 7 31.9 359°.55 0°.2/31.9 18

6 30	21 9.47	−18 34.2	1.714	2.607	13.2	20.6
7 10	21 3.78	−18 30.2	1.649	2.606	9.5	20.4
7 20	20 56.04	−18 30.6	1.607	2.605	5.3	20.1
7 30	20 47.04	−18 32.3	1.590	2.605	0.9	19.8
8 9	20 37.86	−18 32.4	1.599	2.605	3.7	20.0
8 19	20 29.56	−18 28.5	1.635	2.605	8.0	20.3
8 29	20 23.10	−18 19.6	1.695	2.606	11.9	20.5
9 8	20 19.10	−18 5.0	1.776	2.608	15.2	20.8

365260 2009 PK_{8} 7 31.9 355°.90 2°.8/30.5 18

6 30	21 7.34	−24 20.9	1.663	2.567	12.9	19.6
7 10	21 2.39	−24 39.5	1.601	2.563	9.3	19.4
7 20	20 55.31	−24 58.3	1.561	2.560	5.5	19.2
7 30	20 46.92	−25 12.5	1.547	2.557	2.8	19.0
8 9	20 38.34	−25 17.9	1.557	2.556	5.1	19.1
8 19	20 30.68	−25 12.4	1.593	2.555	9.0	19.4
8 29	20 24.91	−24 55.5	1.652	2.555	12.7	19.6
9 8	20 21.67	−24 28.2	1.732	2.556	15.8	19.8

5977 1992 TH_{1} 7 31.9 300°.90 2°.7/ 2.9 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 5.36	− 7 1.9	1.572	2.445	15.2	15.6
7 10	21 1.18	− 7 59.0	1.488	2.429	11.6	15.3
7 20	20 54.80	− 9 18.4	1.425	2.413	7.4	15.0
7 30	20 46.87	−10 56.1	1.387	2.397	3.3	14.7
8 9	20 38.40	−12 45.3	1.375	2.381	4.1	14.7
8 19	20 30.52	−14 37.1	1.389	2.365	8.5	15.0
8 29	20 24.36	−16 22.9	1.428	2.350	13.0	15.2
9 8	20 20.74	−17 56.3	1.489	2.334	16.9	15.4

373605 2002 CO_{251} 7 31.9 151°.10 2°.4/30.3 17

6 30	21 11.38	−23 15.7	2.171	3.056	11.1	21.7
7 10	21 4.83	−24 0.1	2.112	3.065	8.0	21.5
7 20	20 56.50	−24 45.5	2.078	3.074	4.6	21.3
7 30	20 47.12	−25 27.1	2.072	3.082	2.4	21.2
8 9	20 37.59	−26 0.6	2.095	3.090	4.4	21.3
8 19	20 28.83	−26 23.4	2.145	3.096	7.7	21.6
8 29	20 21.66	−26 34.4	2.221	3.103	10.8	21.8
9 8	20 16.65	−26 34.1	2.318	3.108	13.4	22.0

417984 2007 TO_{221} 7 31.9 43°.76 4°.0/30.4 17

6 30	21 13.28	−24 36.6	1.088	2.003	17.2	20.4
7 10	21 7.29	−25 10.7	1.047	2.014	12.4	20.2
7 20	20 58.23	−25 44.9	1.025	2.025	7.3	19.9
7 30	20 47.40	−26 10.9	1.027	2.037	4.0	19.8
8 9	20 36.55	−26 22.3	1.051	2.049	6.9	20.0
8 19	20 27.34	−26 16.5	1.097	2.062	11.7	20.3
8 29	20 21.08	−25 54.6	1.164	2.075	16.1	20.6
9 8	20 18.37	−25 19.4	1.249	2.089	19.9	20.9

442038 2010 PG_{69} 7 31.9 215°.45 5°.7/26.6 18

6 30	21 12.00	−39 52.3	3.134	3.996	8.7	21.9
7 10	21 5.08	−40 35.4	3.068	3.987	7.1	21.8
7 20	20 56.58	−41 10.2	3.028	3.978	6.0	21.7
7 30	20 47.13	−41 32.2	3.015	3.968	5.8	21.6
8 9	20 37.51	−41 38.9	3.029	3.958	6.7	21.7
8 19	20 28.52	−41 29.2	3.070	3.948	8.3	21.8
8 29	20 20.88	−41 3.9	3.135	3.937	10.0	21.9
9 8	20 15.13	−40 25.6	3.221	3.926	11.6	22.0

167510 2003 YE_{114} 7 31.9 218°.24 5°.9/ 5.7 18

6 30	21 6.41	+ 2 8.8	2.355	3.162	13.0	20.7
7 10	21 1.21	+ 2 14.3	2.269	3.155	10.7	20.5
7 20	20 54.50	+ 2 2.5	2.205	3.147	8.3	20.4
7 30	20 46.80	+ 1 33.0	2.166	3.139	6.4	20.3
8 9	20 38.83	+ 0 47.7	2.154	3.130	6.1	20.2
8 19	20 31.31	− 0 10.3	2.169	3.121	7.6	20.3
8 29	20 24.98	− 1 16.3	2.210	3.111	10.0	20.4
9 8	20 20.39	− 2 25.2	2.275	3.101	12.5	20.6

475086 2005 UP_{183} 7 31.9 111°.86 0°.0/31.8 18

6 30	21 6.77	−16 38.7	2.281	3.162	10.8	21.7
7 10	21 1.43	−17 1.5	2.217	3.168	7.8	21.5
7 20	20 54.58	−17 29.8	2.176	3.173	4.4	21.3
7 30	20 46.80	−18 0.6	2.163	3.178	0.7	21.0
8 9	20 38.89	−18 30.6	2.178	3.183	2.9	21.2
8 19	20 31.59	−18 56.9	2.221	3.188	6.4	21.4
8 29	20 25.64	−19 17.4	2.289	3.192	9.6	21.6
9 8	20 21.54	−19 30.9	2.380	3.197	12.3	21.8

104502 2000 GT_{38} 7 31.9 9°.85 10°.1/26.6 18

6 30	21 13.80	−41 20.2	1.531	2.419	14.8	18.9
7 10	21 7.50	−42 22.8	1.489	2.421	12.3	18.7
7 20	20 58.31	−43 9.3	1.467	2.423	10.5	18.6
7 30	20 47.42	−43 30.6	1.468	2.426	10.2	18.6
8 9	20 36.47	−43 21.9	1.492	2.430	11.6	18.7
8 19	20 27.03	−42 43.3	1.538	2.435	13.9	18.9
8 29	20 20.34	−41 39.4	1.604	2.440	16.4	19.0
9 8	20 17.01	−40 16.7	1.687	2.446	18.8	19.2

512421 2016 PE_{89} 7 31.9 265°.62 2°.7/30.2 18

6 30	21 8.87	−23 42.1	1.958	2.852	11.7	21.5
7 10	21 3.31	−24 24.3	1.888	2.845	8.5	21.3
7 20	20 55.79	−25 8.1	1.842	2.839	5.0	21.1
7 30	20 47.03	−25 48.3	1.823	2.832	2.7	21.0
8 9	20 37.98	−26 20.3	1.831	2.826	4.9	21.1
8 19	20 29.65	−26 40.8	1.865	2.819	8.4	21.3
8 29	20 22.99	−26 48.4	1.924	2.813	11.8	21.5
9 8	20 18.63	−26 43.7	2.003	2.806	14.8	21.7

24131 Jonathuggins 7 31.9 100°.72 1°.0/ 1.5 18 R

6 30	21 11.80	−13 53.7	1.562	2.446	14.8	18.9
7 10	21 5.46	−14 13.9	1.511	2.462	10.7	18.7
7 20	20 56.96	−14 44.4	1.482	2.477	6.2	18.5
7 30	20 47.21	−15 21.1	1.479	2.492	1.6	18.2
8 9	20 37.37	−15 59.0	1.501	2.507	3.8	18.4
8 19	20 28.59	−16 33.9	1.550	2.522	8.2	18.7
8 29	20 21.84	−17 2.5	1.623	2.536	12.3	19.0
9 8	20 17.71	−17 22.8	1.717	2.550	15.6	19.3

114257 2002 WP_{16} 7 31.9 273°.68 3°.8/ 3.3 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 7.66	− 6 43.8	1.589	2.458	15.4	19.8
7 10	21 2.75	− 6 56.1	1.511	2.447	11.8	19.6
7 20	20 55.63	− 7 26.5	1.453	2.436	7.9	19.3
7 30	20 47.02	− 8 13.3	1.420	2.425	4.4	19.1
8 9	20 37.97	− 9 12.2	1.412	2.414	4.8	19.1
8 19	20 29.61	−10 17.5	1.430	2.403	8.6	19.3
8 29	20 23.01	−11 23.0	1.472	2.392	12.7	19.5
9 8	20 18.96	−12 23.3	1.534	2.381	16.4	19.7

428237 2006 XO_{22} 7 31.9 268°.65 1°.1/31.3 17

6 30	21 10.01	−18 7.3	1.614	2.508	13.8	21.8
7 10	21 4.57	−18 49.0	1.534	2.491	10.0	21.6
7 20	20 56.72	−19 39.3	1.476	2.474	5.6	21.3
7 30	20 47.22	−20 33.1	1.443	2.457	1.3	20.9
8 9	20 37.18	−21 23.9	1.436	2.440	4.5	21.1
8 19	20 27.84	−22 6.5	1.456	2.422	9.2	21.3
8 29	20 20.40	−22 37.3	1.498	2.404	13.5	21.6
9 8	20 15.70	−22 55.2	1.561	2.386	17.3	21.8

153237 2001 AY_{1} 7 31.9 182°.74 0°.6/ 1.4 18

6 30	21 8.09	−15 33.8	2.841	3.708	9.4	20.9
7 10	21 2.13	−15 34.0	2.765	3.709	6.8	20.8
7 20	20 54.89	−15 38.4	2.716	3.709	3.9	20.6
7 30	20 46.87	−15 45.3	2.694	3.708	1.0	20.3
8 9	20 38.72	−15 52.9	2.703	3.707	2.5	20.5
8 19	20 31.07	−15 59.4	2.740	3.706	5.4	20.7
8 29	20 24.53	−16 3.4	2.805	3.705	8.2	20.9
9 8	20 19.54	−16 4.1	2.894	3.702	10.5	21.0

447053 2004 RB_{224} 7 31.9 286°.86 5°.1/ 5.2 17

6 30	21 4.86	+ 0 24.4	2.424	3.242	12.4	22.1
7 10	21 0.22	+ 0 13.5	2.314	3.211	10.1	21.9
7 20	20 54.04	− 0 14.7	2.228	3.180	7.6	21.7
7 30	20 46.76	− 1 0.2	2.166	3.149	5.6	21.5
8 9	20 39.06	− 2 1.1	2.132	3.117	5.3	21.4
8 19	20 31.64	− 3 13.8	2.125	3.085	7.2	21.5
8 29	20 25.28	− 4 33.4	2.145	3.052	9.9	21.6
9 8	20 20.59	− 5 54.7	2.189	3.020	12.7	21.8

383108 2005 SE_{200} 7 31.9 294°.41 2°.9/30.4 18

6 30	21 10.57	−22 52.4	1.511	2.413	14.1	21.1
7 10	21 5.23	−23 31.9	1.428	2.389	10.3	20.8
7 20	20 57.22	−24 15.6	1.366	2.365	6.0	20.5
7 30	20 47.32	−24 57.1	1.330	2.341	2.9	20.3
8 9	20 36.77	−25 29.7	1.318	2.316	5.8	20.4
8 19	20 26.96	−25 48.8	1.331	2.292	10.4	20.6
8 29	20 19.26	−25 52.2	1.367	2.268	14.9	20.8
9 8	20 14.59	−25 40.7	1.421	2.244	18.7	21.0

284051 2005 BU_{20} 7 31.9 10°.35 0°.7/31.5 17

6 30	21 7.06	−17 6.3	1.618	2.514	13.7	20.2
7 10	21 2.21	−17 49.3	1.556	2.515	9.8	20.0
7 20	20 55.24	−18 41.0	1.517	2.516	5.4	19.8
7 30	20 46.95	−19 35.9	1.502	2.517	1.0	19.4
8 9	20 38.41	−20 28.3	1.514	2.519	4.0	19.7
8 19	20 30.70	−21 13.2	1.552	2.521	8.5	19.9
8 29	20 24.84	−21 47.2	1.613	2.523	12.5	20.2
9 8	20 21.47	−22 9.0	1.695	2.526	15.8	20.4

345504 2006 JU_{48} 7 31.9 54°.24 7°.7/ 5.8 16

6 30	21 7.28	+ 2 21.1	1.790	2.613	15.9	20.2
7 10	21 2.12	+ 2 58.2	1.725	2.617	13.2	20.0
7 20	20 55.10	+ 3 14.4	1.679	2.622	10.4	19.9
7 30	20 46.94	+ 3 8.4	1.657	2.627	8.2	19.8
8 9	20 38.55	+ 2 41.5	1.660	2.632	7.8	19.8
8 19	20 30.89	+ 1 57.4	1.687	2.638	9.4	19.9
8 29	20 24.82	+ 1 1.6	1.738	2.643	12.0	20.0
9 8	20 20.95	+ 0 0.4	1.811	2.649	14.7	20.2

273814 2007 FL_{38} 7 31.9 31°.13 11°.2/27.1 17

6 30	21 13.91	−39 49.7	1.171	2.075	17.2	19.0
7 10	21 7.88	−41 7.6	1.148	2.092	14.0	18.9
7 20	20 58.57	−42 6.0	1.144	2.110	11.7	18.8
7 30	20 47.48	−42 34.5	1.162	2.129	11.3	18.9
8 9	20 36.61	−42 27.9	1.200	2.149	12.8	19.0
8 19	20 27.71	−41 48.2	1.259	2.170	15.3	19.2
8 29	20 22.05	−40 41.4	1.337	2.192	18.1	19.5
9 8	20 20.09	−39 15.8	1.431	2.214	20.5	19.7

417356 2006 FN_{13} 7 31.9 135°.30 1°.7/ 1.9 17

6 30	21 11.19	−11 47.5	1.457	2.340	15.7	21.3
7 10	21 5.28	−12 12.8	1.398	2.347	11.5	21.1
7 20	20 57.01	−12 52.1	1.360	2.353	6.9	20.8
7 30	20 47.26	−13 41.4	1.346	2.359	2.3	20.6
8 9	20 37.28	−14 34.8	1.358	2.364	4.0	20.7
8 19	20 28.29	−15 26.6	1.396	2.369	8.8	21.0
8 29	20 21.40	−16 12.1	1.458	2.374	13.1	21.3
9 8	20 17.30	−16 48.2	1.539	2.379	16.8	21.5

147322 2003 BC_{15} 7 31.9 249°.33 2°.4/30.7 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 13.62	−23 24.9	1.878	2.766	12.5	20.5
7 10	21 6.91	−23 48.3	1.795	2.749	9.0	20.3
7 20	20 57.93	−24 12.9	1.736	2.732	5.3	20.0
7 30	20 47.44	−24 33.7	1.703	2.714	2.4	19.8
8 9	20 36.52	−24 46.3	1.698	2.696	4.8	19.9
8 19	20 26.33	−24 48.0	1.720	2.677	8.8	20.1
8 29	20 17.97	−24 38.0	1.766	2.657	12.6	20.3
9 8	20 12.19	−24 17.3	1.834	2.637	15.9	20.5

93578 2000 UW_{47} 7 31.9 256°.21 0°.3/31.8 18

6 30	21 9.32	−17 9.4	1.806	2.694	12.9	19.9
7 10	21 3.75	−17 33.5	1.731	2.686	9.3	19.7
7 20	20 56.11	−18 4.7	1.679	2.677	5.2	19.4
7 30	20 47.13	−18 39.0	1.653	2.668	0.9	19.1
8 9	20 37.81	−19 12.1	1.654	2.659	3.7	19.3
8 19	20 29.21	−19 40.0	1.681	2.649	8.0	19.5
8 29	20 22.31	−20 0.1	1.733	2.640	11.9	19.7
9 8	20 17.81	−20 11.2	1.806	2.631	15.3	19.9

388639 2007 TJ_{141} 7 31.9 286°.51 4°.0/29.3 18

6 30	21 9.27	−26 37.1	1.851	2.749	12.1	20.3
7 10	21 3.78	−27 31.2	1.783	2.740	8.9	20.0
7 20	20 56.15	−28 25.1	1.739	2.732	5.6	19.8
7 30	20 47.14	−29 12.4	1.721	2.724	4.0	19.7
8 9	20 37.81	−29 47.7	1.729	2.716	6.1	19.8
8 19	20 29.27	−30 7.5	1.763	2.708	9.5	20.0
8 29	20 22.52	−30 10.9	1.820	2.700	12.8	20.2
9 8	20 18.27	−29 59.3	1.897	2.692	15.7	20.4

351907 2006 SR_{324} 7 31.9 263°.32 2°.2/ 2.6 18

6 30	21 6.10	− 9 49.7	2.064	2.932	12.4	21.7
7 10	21 1.18	−10 8.9	1.987	2.926	9.3	21.5
7 20	20 54.57	−10 40.0	1.933	2.921	5.8	21.3
7 30	20 46.88	−11 20.7	1.906	2.915	2.6	21.1
8 9	20 38.92	−12 7.3	1.906	2.910	3.4	21.1
8 19	20 31.53	−12 55.8	1.933	2.904	6.9	21.4
8 29	20 25.52	−13 42.3	1.985	2.898	10.3	21.6
9 8	20 21.49	−14 23.6	2.060	2.893	13.3	21.8

331131 2010 VB_{69} 7 31.9 304°.02 0°.3/ 1.2 18

6 30	21 5.22	−14 54.9	2.104	2.987	11.5	20.9
7 10	21 0.59	−15 26.4	2.024	2.975	8.4	20.7
7 20	20 54.27	−16 6.4	1.967	2.963	4.8	20.4
7 30	20 46.85	−16 51.6	1.937	2.952	0.9	20.1
8 9	20 39.12	−17 38.0	1.935	2.940	3.1	20.3
8 19	20 31.93	−18 21.5	1.959	2.929	6.9	20.5
8 29	20 26.09	−18 58.8	2.009	2.918	10.4	20.7
9 8	20 22.21	−19 28.0	2.081	2.907	13.5	20.9

333846 1992 SL_{11} 7 31.9 281°.42 2°.7/ 2.6 18

6 30	21 8.35	− 9 20.6	1.796	2.665	13.8	21.7
7 10	21 3.23	− 9 34.0	1.699	2.638	10.5	21.4
7 20	20 55.96	−10 1.8	1.624	2.611	6.7	21.1
7 30	20 47.16	−10 42.2	1.575	2.584	3.2	20.9
8 9	20 37.76	−11 31.5	1.552	2.556	4.1	20.9
8 19	20 28.82	−12 25.0	1.556	2.528	8.1	21.0
8 29	20 21.43	−13 17.8	1.584	2.500	12.3	21.2
9 8	20 16.41	−14 5.5	1.634	2.471	16.1	21.4

392802 2012 TN_{198} 7 31.9 240°.71 0°.6/31.6 18

6 30	21 9.74	−18 32.2	1.944	2.831	12.2	21.6
7 10	21 3.93	−18 52.6	1.870	2.824	8.8	21.4
7 20	20 56.17	−19 18.2	1.818	2.816	4.9	21.2
7 30	20 47.17	−19 45.1	1.794	2.808	0.9	20.9
8 9	20 37.88	−20 9.5	1.797	2.800	3.6	21.1
8 19	20 29.28	−20 28.1	1.826	2.792	7.7	21.3
8 29	20 22.31	−20 39.1	1.881	2.784	11.4	21.5
9 8	20 17.61	−20 41.7	1.958	2.775	14.5	21.7

395701 2012 RC_{22} 7 31.9 294°.08 7°.9/ 5.8 18

6 30	21 6.34	+ 3 0.2	1.769	2.591	16.1	21.2
7 10	21 1.83	+ 3 16.3	1.667	2.560	13.5	20.9
7 20	20 55.21	+ 3 9.5	1.585	2.529	10.7	20.7
7 30	20 47.05	+ 2 37.5	1.525	2.498	8.5	20.5
8 9	20 38.22	+ 1 41.0	1.489	2.467	8.0	20.4
8 19	20 29.77	+ 0 24.0	1.478	2.435	10.0	20.4
8 29	20 22.78	− 1 7.1	1.492	2.404	13.2	20.5
9 8	20 18.11	− 2 44.0	1.526	2.372	16.6	20.7

48479 1991 XF 7 31.9 237°.59 3°.2/29.9 18

6 30	21 12.09	−24 0.7	1.916	2.806	12.2	19.5
7 10	21 5.84	−24 56.8	1.836	2.792	8.8	19.2
7 20	20 57.37	−25 55.6	1.781	2.777	5.3	19.0
7 30	20 47.40	−26 50.7	1.753	2.761	3.2	18.8
8 9	20 36.96	−27 36.2	1.752	2.745	5.4	19.0
8 19	20 27.19	−28 8.0	1.779	2.728	9.1	19.1
8 29	20 19.16	−28 24.3	1.829	2.710	12.7	19.3
9 8	20 13.65	−28 25.9	1.900	2.692	15.8	19.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V
150808 2001 RZ_{100}			7 31.9 236°.09		3°.3/30.1 18	
	h m	° ′			°	m
6 30	21 12.62	−25 7.7	1.775	2.668	12.8	20.2
7 10	21 6.25	−25 45.6	1.704	2.660	9.3	20.0
7 20	20 57.58	−26 23.8	1.656	2.651	5.6	19.8
7 30	20 47.42	−26 56.4	1.634	2.642	3.3	19.6
8 9	20 36.93	−27 18.2	1.640	2.633	5.6	19.7
8 19	20 27.28	−27 26.2	1.671	2.623	9.4	19.9
8 29	20 19.59	−27 19.8	1.726	2.613	13.0	20.1
9 8	20 14.57	−27 0.5	1.801	2.603	16.2	20.3
12607 Alcaeus			7 31.9 20°.74		0°.8/ 1.4 18	
6 30	21 8.81	−14 58.2	1.672	2.560	13.8	18.6
7 10	21 3.39	−15 10.0	1.608	2.561	10.0	18.4
7 20	20 55.90	−15 30.6	1.566	2.562	5.8	18.2
7 30	20 47.13	−15 56.6	1.549	2.564	1.4	17.9
8 9	20 38.14	−16 24.1	1.559	2.565	3.6	18.1
8 19	20 30.00	−16 49.2	1.595	2.567	8.0	18.3
8 29	20 23.66	−17 8.9	1.655	2.569	12.0	18.6
9 8	20 19.79	−17 21.7	1.735	2.571	15.3	18.8
478540 2012 TU_{17}			7 31.9 329°.70		3°.7/29.9 18	
6 30	21 8.93	−24 45.5	1.446	2.354	14.2	20.9
7 10	21 3.97	−25 27.9	1.380	2.344	10.4	20.6
7 20	20 56.45	−26 11.7	1.336	2.334	6.2	20.4
7 30	20 47.25	−26 50.2	1.316	2.325	3.7	20.2
8 9	20 37.67	−27 16.8	1.321	2.316	6.3	20.3
8 19	20 29.06	−27 27.8	1.349	2.308	10.5	20.5
8 29	20 22.65	−27 22.2	1.400	2.300	14.6	20.8
9 8	20 19.23	−27 1.5	1.469	2.294	18.1	21.0
516489 2005 UB_{307}			7 31.9 291°.52		8°.0/25.3 18	
6 30	21 11.19	−39 28.0	2.115	2.994	11.6	21.2
7 10	21 5.31	−40 45.8	2.049	2.978	9.6	21.1
7 20	20 57.11	−41 54.3	2.007	2.962	8.2	20.9
7 30	20 47.36	−42 45.9	1.990	2.945	8.2	20.9
8 9	20 37.20	−43 15.2	1.998	2.929	9.5	21.0
8 19	20 27.83	−43 19.8	2.030	2.913	11.7	21.1
8 29	20 20.37	−43 0.8	2.084	2.896	14.0	21.2
9 8	20 15.57	−42 21.9	2.155	2.880	16.1	21.3
19129 Loos			7 31.9 205°.29		1°.8/30.7 18	
6 30	21 9.37	−20 52.4	2.099	2.986	11.4	18.3
7 10	21 3.59	−21 40.4	2.028	2.983	8.1	18.1
7 20	20 55.96	−22 32.4	1.981	2.978	4.6	17.9
7 30	20 47.16	−23 23.5	1.962	2.974	1.8	17.7
8 9	20 38.08	−24 8.9	1.970	2.969	4.1	17.8
8 19	20 29.64	−24 45.0	2.006	2.964	7.7	18.0
8 29	20 22.73	−25 9.5	2.068	2.958	11.1	18.2
9 8	20 17.97	−25 22.3	2.151	2.952	13.9	18.4
351864 2006 SP_{2}			7 31.9 252°.83		0°.6/31.6 18	
6 30	21 8.38	−18 30.5	2.084	2.969	11.5	20.9
7 10	21 2.85	−18 51.8	2.009	2.962	8.3	20.6
7 20	20 55.54	−19 17.9	1.958	2.956	4.6	20.4
7 30	20 47.09	−19 45.4	1.934	2.949	0.9	20.1
8 9	20 38.39	−20 10.5	1.938	2.941	3.4	20.3
8 19	20 30.33	−20 30.4	1.969	2.934	7.2	20.5
8 29	20 23.75	−20 43.0	2.025	2.927	10.7	20.7
9 8	20 19.27	−20 47.6	2.103	2.920	13.7	20.9
266149 2006 UH_{32}			7 31.9 251°.71		2°.2/ 2.2 18	
6 30	21 10.44	−10 56.5	1.788	2.660	13.8	22.0
7 10	21 4.68	−11 7.5	1.701	2.643	10.4	21.7
7 20	20 56.75	−11 30.9	1.635	2.625	6.4	21.5
7 30	20 47.33	−12 4.4	1.596	2.607	2.7	21.2
8 9	20 37.41	−12 44.3	1.583	2.588	3.9	21.2
8 19	20 28.07	−13 26.2	1.597	2.568	8.1	21.4
8 29	20 20.39	−14 6.0	1.636	2.548	12.2	21.6
9 8	20 15.13	−14 40.3	1.697	2.528	15.8	21.8
8492 Kikuoka			7 31.9 259°.82		0°.2/31.9 18	
6 30	21 14.37	−19 29.2	1.728	2.614	13.5	17.7
7 10	21 7.43	−19 12.4	1.653	2.606	9.8	17.4
7 20	20 58.21	−18 57.9	1.600	2.597	5.5	17.1
7 30	20 47.56	−18 43.1	1.574	2.589	0.9	16.8
8 9	20 36.62	−18 25.4	1.576	2.581	3.8	17.0
8 19	20 26.58	−18 3.6	1.604	2.572	8.3	17.3
8 29	20 18.50	−17 37.4	1.657	2.563	12.4	17.5
9 8	20 13.09	−17 7.1	1.731	2.554	15.9	17.7
253641 2003 UX_{115}			7 31.9 357°.06		5°.8/ 3.3 18	
6 30	21 7.53	− 7 21.2	1.105	1.997	18.9	19.3
7 10	21 3.21	− 6 40.7	1.046	1.993	14.7	19.0
7 20	20 56.11	− 6 19.5	1.005	1.991	10.1	18.8
7 30	20 47.23	− 6 18.4	0.986	1.989	6.3	18.5
8 9	20 37.97	− 6 34.9	0.988	1.989	6.7	18.6
8 19	20 29.83	− 7 4.1	1.012	1.989	10.7	18.8
8 29	20 24.13	− 7 39.9	1.057	1.991	15.3	19.1
9 8	20 21.66	− 8 15.8	1.120	1.993	19.4	19.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V
436310 2010 EZ_{99}			7 31.9 0°.18		8°.2/ 5.8 18	
	h m	° ′			°	m
6 30	21 3.13	+ 0 44.6	1.370	2.225	18.1	19.7
7 10	20 59.62	+ 1 15.1	1.307	2.222	14.9	19.4
7 20	20 53.94	+ 1 20.5	1.262	2.221	11.5	19.2
7 30	20 46.85	+ 0 59.0	1.238	2.220	8.8	19.1
8 9	20 39.45	+ 0 13.2	1.236	2.221	8.3	19.1
8 19	20 32.88	− 0 51.7	1.257	2.223	10.4	19.2
8 29	20 28.19	− 2 7.8	1.300	2.226	13.6	19.4
9 8	20 26.08	− 3 26.4	1.363	2.230	16.9	19.6
165013 2000 CO_{90}			7 31.9 105°.15		2°.3/30.5 18	
6 30	21 9.53	−22 32.1	1.964	2.856	11.8	19.9
7 10	21 3.68	−23 13.9	1.908	2.865	8.4	19.7
7 20	20 55.98	−23 57.7	1.876	2.874	4.8	19.5
7 30	20 47.17	−24 38.3	1.871	2.882	2.3	19.3
8 9	20 38.23	−25 11.3	1.893	2.891	4.5	19.5
8 19	20 30.11	−25 33.7	1.942	2.899	8.0	19.7
8 29	20 23.67	−25 44.3	2.016	2.907	11.3	19.9
9 8	20 19.47	−25 43.5	2.111	2.915	14.1	20.1
290663 2005 UV_{300}			7 31.9 300°.66		0°.3/31.7 18	
6 30	21 5.78	−16 34.8	2.011	2.899	11.8	20.7
7 10	21 1.15	−17 13.5	1.926	2.880	8.5	20.5
7 20	20 54.68	−18 0.4	1.865	2.862	4.8	20.2
7 30	20 46.98	−18 51.6	1.830	2.845	0.8	19.9
8 9	20 38.90	−19 42.4	1.822	2.827	3.5	20.1
8 19	20 31.34	−20 28.5	1.841	2.809	7.5	20.3
8 29	20 25.20	−21 6.4	1.886	2.792	11.2	20.5
9 8	20 21.15	−21 34.1	1.952	2.774	14.4	20.7
463402 2013 GP_{135}			7 31.9 86°.01		1°.2/31.4 17	
6 30	21 11.39	−17 29.3	1.266	2.169	16.2	21.5
7 10	21 5.74	−18 21.5	1.215	2.177	11.6	21.2
7 20	20 57.42	−19 23.8	1.185	2.185	6.5	21.0
7 30	20 47.44	−20 28.7	1.178	2.192	1.4	20.7
8 9	20 37.23	−21 28.3	1.196	2.200	4.9	20.9
8 19	20 28.22	−22 16.3	1.239	2.208	10.1	21.2
8 29	20 21.64	−22 49.4	1.303	2.216	14.6	21.5
9 8	20 18.22	−23 7.1	1.387	2.223	18.4	21.8
245636 2005 YG_{6}			7 31.9 148°.95		1°.1/31.4 17	
6 30	21 12.92	−17 56.1	1.413	2.308	15.3	20.7
7 10	21 6.70	−18 41.1	1.355	2.313	11.0	20.5
7 20	20 57.92	−19 34.5	1.319	2.318	6.1	20.2
7 30	20 47.54	−20 30.0	1.309	2.323	1.3	19.9
8 9	20 36.88	−21 20.6	1.323	2.327	4.7	20.1
8 19	20 27.32	−22 0.9	1.364	2.331	9.6	20.4
8 29	20 20.05	−22 28.2	1.427	2.334	14.0	20.7
9 8	20 15.77	−22 41.9	1.510	2.337	17.6	21.0
238653 2005 EX_{77}			7 31.9 91°.49		3°.3/ 3.6 17	
6 30	21 8.15	− 6 1.3	2.031	2.882	13.2	20.8
7 10	21 2.47	− 6 21.3	1.978	2.905	10.0	20.6
7 20	20 55.22	− 6 55.6	1.949	2.927	6.7	20.5
7 30	20 47.06	− 7 41.6	1.946	2.949	3.8	20.3
8 9	20 38.85	− 8 35.6	1.970	2.970	4.0	20.4
8 19	20 31.39	− 9 33.0	2.022	2.991	6.8	20.6
8 29	20 25.42	−10 29.4	2.100	3.012	9.9	20.8
9 8	20 21.41	−11 21.2	2.201	3.032	12.6	21.1
25286 1998 WC_{8}			7 31.9 298°.60		2°.0/30.6 18	
6 30	21 7.44	−19 40.5	1.748	2.644	12.8	17.9
7 10	21 2.76	−20 42.2	1.657	2.616	9.3	17.6
7 20	20 55.81	−21 52.8	1.589	2.588	5.3	17.3
7 30	20 47.22	−23 6.4	1.547	2.560	2.0	17.0
8 9	20 38.00	−24 16.0	1.532	2.532	4.9	17.2
8 19	20 29.28	−25 15.4	1.542	2.503	9.3	17.4
8 29	20 22.23	−26 0.6	1.577	2.475	13.4	17.5
9 8	20 17.72	−26 29.8	1.631	2.447	17.0	17.7
501850 2014 WG_{190}			7 31.9 257°.71		0°.6/ 1.3 17	
6 30	21 9.85	−13 40.2	1.418	2.310	15.5	21.2
7 10	21 4.64	−14 22.1	1.345	2.300	11.4	21.0
7 20	20 56.89	−15 18.6	1.294	2.291	6.6	20.7
7 30	20 47.40	−16 24.5	1.267	2.281	1.4	20.3
8 9	20 37.39	−17 32.8	1.265	2.271	4.2	20.5
8 19	20 28.22	−18 36.4	1.288	2.261	9.4	20.7
8 29	20 21.13	−19 30.1	1.335	2.251	14.1	21.0
9 8	20 16.97	−20 10.7	1.401	2.241	18.1	21.2
160209 2002 CA_{96}			7 31.9 165°.04		1°.6/ 2.4 18	
6 30	21 5.38	−10 11.3	2.415	3.278	11.0	20.5
7 10	21 0.46	−10 44.9	2.342	3.280	8.1	20.3
7 20	20 54.12	−11 28.9	2.294	3.282	5.0	20.1
7 30	20 46.90	−12 20.5	2.273	3.284	2.0	19.9
8 9	20 39.48	−13 16.3	2.280	3.285	2.8	20.0
8 19	20 32.58	−14 12.2	2.316	3.286	6.0	20.2
8 29	20 26.85	−15 4.9	2.379	3.288	9.0	20.4
9 8	20 22.81	−15 51.4	2.465	3.288	11.7	20.6

213542 2002 JG_{76} 7 31.9 115°.25 3°.3/ 2.7 17

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 11.68	− 9 5.9	1.502	2.375	15.9	20.7
7 10	21 5.55	− 9 6.2	1.444	2.385	11.9	20.5
7 20	20 57.17	− 9 21.5	1.408	2.395	7.6	20.3
7 30	20 47.42	− 9 49.6	1.396	2.404	3.8	20.1
8 9	20 37.50	−10 26.3	1.410	2.413	4.5	20.2
8 19	20 28.59	−11 6.8	1.450	2.422	8.6	20.4
8 29	20 21.71	−11 46.3	1.513	2.431	12.6	20.7
9 8	20 17.53	−12 21.1	1.597	2.439	16.1	20.9

144093 2004 BZ_{56} 7 31.9 218°.84 0°.3/ 1.2 17 R

6 30	21 11.30	−15 35.1	1.788	2.670	13.3	21.1
7 10	21 5.23	−15 58.9	1.712	2.663	9.7	20.8
7 20	20 57.02	−16 31.3	1.660	2.656	5.5	20.6
7 30	20 47.42	−17 8.5	1.633	2.648	1.0	20.2
8 9	20 37.45	−17 45.8	1.634	2.639	3.6	20.4
8 19	20 28.22	−18 19.1	1.662	2.631	8.0	20.7
8 29	20 20.74	−18 45.4	1.715	2.621	12.0	20.9
9 8	20 15.72	−19 3.1	1.788	2.611	15.5	21.1

284424 2007 BO_{36} 7 31.9 158°.43 2°.2/30.6 17

6 30	21 11.93	−22 0.7	1.878	2.767	12.4	21.3
7 10	21 5.53	−22 43.1	1.817	2.773	8.9	21.1
7 20	20 57.09	−23 28.0	1.780	2.777	5.1	20.9
7 30	20 47.42	−24 10.1	1.770	2.782	2.2	20.7
8 9	20 37.54	−24 44.6	1.788	2.786	4.6	20.9
8 19	20 28.52	−25 8.2	1.832	2.789	8.3	21.1
8 29	20 21.31	−25 19.5	1.901	2.792	11.8	21.3
9 8	20 16.51	−25 19.0	1.991	2.795	14.8	21.6

470632 2008 SS_{47} 7 31.9 232°.74 4°.8/28.9 18

6 30	21 14.51	−31 12.1	2.204	3.086	11.1	22.1
7 10	21 7.37	−31 51.1	2.128	3.073	8.4	21.9
7 20	20 58.16	−32 25.5	2.076	3.060	5.8	21.7
7 30	20 47.61	−32 49.6	2.052	3.045	4.8	21.6
8 9	20 36.74	−32 59.0	2.055	3.030	6.4	21.7
8 19	20 26.63	−32 52.1	2.085	3.015	9.1	21.8
8 29	20 18.25	−32 29.2	2.140	2.999	12.0	22.0
9 8	20 12.28	−31 52.9	2.216	2.982	14.6	22.1

514924 2008 UB_{122} 7 31.9 327°.10 4°.0/28.9 18

6 30	21 7.50	−30 3.8	2.461	3.351	9.8	21.2
7 10	21 2.08	−30 39.8	2.395	3.346	7.3	21.1
7 20	20 55.07	−31 12.3	2.354	3.341	5.0	20.9
7 30	20 47.07	−31 37.1	2.340	3.336	4.0	20.8
8 9	20 38.90	−31 50.8	2.353	3.332	5.4	20.9
8 19	20 31.37	−31 51.6	2.393	3.327	7.9	21.1
8 29	20 25.24	−31 39.5	2.457	3.323	10.4	21.2
9 8	20 21.03	−31 15.8	2.543	3.319	12.7	21.4

353177 2009 OF_{21} 7 31.9 26°.64 2°.1/31.2 18

6 30	21 12.30	−24 20.7	1.530	2.430	14.1	19.1
7 10	21 5.82	−24 4.9	1.487	2.447	10.1	18.9
7 20	20 57.18	−23 47.5	1.466	2.465	5.7	18.6
7 30	20 47.40	−23 25.2	1.471	2.483	2.2	18.5
8 9	20 37.75	−22 56.0	1.501	2.503	4.6	18.7
8 19	20 29.38	−22 19.6	1.557	2.523	8.7	19.0
8 29	20 23.20	−21 37.1	1.636	2.544	12.5	19.2
9 8	20 19.72	−20 49.9	1.737	2.566	15.6	19.5

129839 1999 RH_{21} 7 31.9 327°.84 5°.8/29.3 18

6 30	21 10.18	−29 24.5	1.356	2.266	14.8	19.3
7 10	21 5.19	−30 3.7	1.287	2.248	11.1	19.0
7 20	20 57.31	−30 39.2	1.238	2.231	7.5	18.7
7 30	20 47.50	−31 3.0	1.212	2.214	5.8	18.6
8 9	20 37.19	−31 8.3	1.210	2.198	8.1	18.7
8 19	20 27.96	−30 52.4	1.231	2.183	12.1	18.9
8 29	20 21.20	−30 16.1	1.273	2.169	16.1	19.1
9 8	20 17.77	−29 23.0	1.333	2.156	19.7	19.3

170686 2004 AK_{24} 7 31.9 237°.09 0°.0/31.9 18

6 30	21 7.40	−15 16.6	2.217	3.095	11.2	20.8
7 10	21 2.16	−16 4.6	2.134	3.084	8.1	20.6
7 20	20 55.20	−17 1.3	2.077	3.073	4.6	20.3
7 30	20 47.12	−18 2.7	2.046	3.061	0.8	20.0
8 9	20 38.70	−19 4.0	2.045	3.049	3.1	20.2
8 19	20 30.78	−20 1.0	2.071	3.037	6.9	20.4
8 29	20 24.18	−20 50.1	2.123	3.024	10.3	20.6
9 8	20 19.52	−21 29.2	2.198	3.011	13.3	20.8

245593 2005 VL_{15} 7 31.9 273°.46 1°.0/ 1.7 18

6 30	21 6.88	−13 50.0	2.269	3.143	11.2	20.7
7 10	21 1.70	−13 59.5	2.184	3.130	8.2	20.4
7 20	20 54.91	−14 16.5	2.123	3.116	4.8	20.2
7 30	20 47.07	−14 38.9	2.089	3.102	1.5	20.0
8 9	20 38.94	−15 3.6	2.083	3.089	2.9	20.0
8 19	20 31.31	−15 28.0	2.105	3.075	6.5	20.3
8 29	20 24.96	−15 49.5	2.153	3.061	9.9	20.4
9 8	20 20.48	−16 6.1	2.223	3.047	12.8	20.6

252838 2002 GO_{121} 7 31.9 352°.71 4°.7/29.1 18

2020	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
6 30	21 9.99	−30 29.7	2.008	2.901	11.5	19.3
7 10	21 4.13	−31 5.2	1.948	2.899	8.6	19.1
7 20	20 56.31	−31 36.0	1.911	2.898	5.9	19.0
7 30	20 47.30	−31 56.8	1.900	2.897	4.7	18.9
8 9	20 38.12	−32 3.7	1.916	2.896	6.3	19.0
8 19	20 29.81	−31 55.2	1.957	2.895	9.2	19.2
8 29	20 23.27	−31 31.6	2.023	2.895	12.1	19.4
9 8	20 19.09	−30 55.4	2.109	2.895	14.7	19.5

318517 2005 EM_{188} 7 31.9 105°.99 12°.8/13.3 17

6 30	21 8.88	+18 48.9	1.732	2.450	20.1	20.3
7 10	21 3.38	+19 9.4	1.675	2.466	18.1	20.2
7 20	20 55.90	+18 55.1	1.632	2.482	15.9	20.1
7 30	20 47.23	+18 3.1	1.609	2.498	14.0	20.0
8 9	20 38.39	+16 34.8	1.606	2.513	13.0	20.0
8 19	20 30.41	+14 35.9	1.627	2.528	13.0	20.0
8 29	20 24.20	+12 16.1	1.670	2.543	14.2	20.1
9 8	20 20.37	+ 9 46.7	1.736	2.556	16.0	20.3

297573 2001 RK_{108} 7 31.9 298°.72 3°.8/29.9 18

6 30	21 10.79	−27 9.3	1.857	2.753	12.2	20.6
7 10	21 4.94	−27 37.7	1.781	2.737	9.0	20.3
7 20	20 56.90	−28 4.5	1.728	2.721	5.6	20.1
7 30	20 47.42	−28 24.0	1.700	2.706	3.8	20.0
8 9	20 37.59	−28 31.9	1.700	2.690	5.8	20.1
8 19	20 28.55	−28 25.8	1.725	2.675	9.3	20.2
8 29	20 21.34	−28 5.5	1.773	2.660	12.8	20.4
9 8	20 16.67	−27 32.8	1.843	2.645	15.9	20.6

167986 2005 GX_{66} 7 31.9 0°.83 0°.8/ 1.5 18

6 30	21 7.21	−14 24.1	1.702	2.590	13.5	20.0
7 10	21 2.27	−14 42.4	1.636	2.589	9.9	19.8
7 20	20 55.33	−15 10.3	1.593	2.589	5.7	19.5
7 30	20 47.15	−15 44.4	1.575	2.589	1.4	19.2
8 9	20 38.72	−16 20.4	1.583	2.589	3.5	19.4
8 19	20 31.07	−16 54.0	1.617	2.590	7.8	19.7
8 29	20 25.15	−17 22.0	1.675	2.590	11.7	19.9
9 8	20 21.59	−17 42.2	1.754	2.592	15.1	20.1

523708 2014 JB_{80} 7 31.9 10°.91 0°.0/ 1.2 18

6 30	20 51.87	−16 44.7	12.068	12.938	2.4	22.1
7 10	20 50.07	−16 55.4	11.998	12.943	1.7	22.1
7 20	20 48.05	−17 7.0	11.955	12.949	1.0	22.0
7 30	20 45.90	−17 19.2	11.940	12.955	0.2	21.9
8 9	20 43.72	−17 31.4	11.956	12.961	0.6	22.0
8 19	20 41.63	−17 43.3	12.001	12.967	1.4	22.0
8 29	20 39.73	−17 54.5	12.074	12.972	2.1	22.1
9 8	20 38.11	−18 4.4	12.173	12.978	2.8	22.2

11107 Hakkoda 8 1.0 316°.34 5°.4/ 4.4 18

6 30	21 5.65	− 2 42.3	1.964	2.807	13.9	17.3
7 10	21 0.98	− 2 21.9	1.883	2.798	11.1	17.1
7 20	20 54.57	− 2 17.3	1.825	2.789	8.2	16.9
7 30	20 47.03	− 2 29.1	1.790	2.780	5.8	16.7
8 9	20 39.18	− 2 55.4	1.782	2.771	5.7	16.7
8 19	20 31.88	− 3 33.1	1.799	2.762	8.0	16.8
8 29	20 25.98	− 4 17.9	1.841	2.754	11.0	17.0
9 8	20 22.10	− 5 4.9	1.905	2.746	13.9	17.2

438774 2008 UP_{349} 8 1.0 256°.68 6°.9/ 4.8 17

6 30	21 8.86	− 0 11.2	1.872	2.701	15.0	20.9
7 10	21 3.36	+ 0 30.0	1.792	2.693	12.3	20.7
7 20	20 55.95	+ 0 53.9	1.733	2.685	9.5	20.5
7 30	20 47.27	+ 0 58.8	1.699	2.677	7.3	20.3
8 9	20 38.23	+ 0 45.4	1.690	2.668	7.1	20.3
8 19	20 29.80	+ 0 16.4	1.706	2.660	9.1	20.4
8 29	20 22.90	− 0 23.9	1.747	2.651	12.0	20.6
9 8	20 18.20	− 1 9.9	1.809	2.643	14.9	20.7

396969 2005 SB_{34} 8 1.0 307°.87 1°.2/31.2 17

6 30	21 6.54	−19 20.9	1.964	2.857	11.8	20.9
7 10	21 1.71	−19 58.6	1.888	2.846	8.5	20.6
7 20	20 55.02	−20 41.9	1.836	2.834	4.7	20.4
7 30	20 47.11	−21 26.3	1.810	2.823	1.3	20.1
8 9	20 38.87	−22 7.3	1.810	2.813	3.9	20.3
8 19	20 31.26	−22 40.9	1.838	2.802	7.8	20.5
8 29	20 25.16	−23 4.6	1.890	2.792	11.3	20.7
9 8	20 21.24	−23 17.5	1.963	2.782	14.4	20.9

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6 30	21 6.75	−18 55.8	2.179	3.066	11.0	19.2
7 10	21 1.64	−19 53.4	2.114	3.069	7.8	19.0
7 20	20 54.88	−20 56.4	2.073	3.071	4.4	18.8
7 30	20 47.08	−22 0.2	2.060	3.073	1.4	18.6
8 9	20 39.05	−22 59.7	2.075	3.076	3.7	18.8
8 19	20 31.64	−23 50.8	2.118	3.078	7.2	19.0
8 29	20 25.62	−24 31.0	2.186	3.080	10.4	19.2
9 8	20 21.56	−24 59.2	2.276	3.082	13.1	19.4