142650 2002 TH_{192} 1 29.0 39°.33 3°.6/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.09	+26 58.1	1.290	2.111	18.9	18.9
1 2	9 12.35	+26 53.7	1.240	2.132	14.6	18.7
1 12	9 3.06	+26 48.4	1.210	2.155	9.7	18.5
1 22	8 51.39	+26 35.7	1.204	2.178	4.9	18.3
2 1	8 39.00	+26 10.9	1.225	2.203	4.3	18.3
2 11	8 27.77	+25 32.4	1.272	2.227	8.4	18.6
2 21	8 19.11	+24 42.6	1.344	2.253	12.9	19.0
3 2	8 13.84	+23 44.9	1.438	2.278	16.7	19.3

125551 2001 XA_6 1 29.0 17°.54 2°.7/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.36	+12 31.6	1.043	1.874	21.7	18.8
1 2	9 4.05	+12 13.9	0.985	1.880	17.2	18.5
1 12	8 58.15	+12 15.1	0.943	1.888	11.7	18.3
1 22	8 49.54	+12 33.1	0.923	1.898	5.9	18.0
2 1	8 39.73	+13 3.0	0.926	1.909	2.9	17.8
2 11	8 30.63	+13 37.9	0.953	1.921	8.0	18.2
2 21	8 23.82	+14 11.2	1.002	1.935	13.5	18.5
3 2	8 20.37	+14 38.0	1.071	1.950	18.2	18.8

322739 2000 SZ_{314} 1 29.0 213°.90 3°.1/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.60	+ 8 20.3	2.502	3.249	12.9	21.1
1 2	9 5.30	+ 7 58.3	2.397	3.241	10.4	20.9
1 12	8 58.04	+ 7 46.7	2.316	3.233	7.5	20.7
1 22	8 49.31	+ 7 45.1	2.263	3.224	4.5	20.5
2 1	8 39.82	+ 7 52.4	2.239	3.214	3.1	20.4
2 11	8 30.45	+ 8 6.3	2.247	3.203	5.2	20.5
2 21	8 22.06	+ 8 24.4	2.284	3.192	8.3	20.7
3 2	8 15.34	+ 8 43.8	2.347	3.180	11.3	20.9

107342 2001 CO_{23} 1 29.0 40°.85 0°.3/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.44	+15 19.3	1.300	2.117	19.0	19.5
1 2	9 5.05	+15 59.2	1.240	2.131	14.7	19.2
1 12	8 58.50	+16 55.0	1.200	2.146	9.6	19.0
1 22	8 49.61	+18 0.7	1.184	2.162	4.0	18.7
2 1	8 39.72	+19 8.1	1.194	2.178	1.8	18.6
2 11	8 30.44	+20 8.7	1.230	2.194	7.3	19.0
2 21	8 23.17	+20 57.0	1.291	2.211	12.3	19.3
3 2	8 18.85	+21 30.3	1.374	2.229	16.5	19.6

404136 2013 CV_4 1 29.0 307°.59 1°.8/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.86	+11 40.7	1.425	2.228	18.4	21.5
1 2	9 4.67	+11 55.6	1.338	2.219	14.6	21.2
1 12	8 58.40	+12 29.0	1.271	2.210	10.0	20.9
1 22	8 49.68	+13 18.3	1.227	2.201	4.9	20.6
2 1	8 39.63	+14 18.1	1.210	2.193	2.2	20.4
2 11	8 29.79	+15 20.9	1.219	2.185	7.1	20.6
2 21	8 21.61	+16 19.7	1.254	2.177	12.3	20.9
3 2	8 16.25	+17 9.2	1.310	2.170	16.8	21.2

207088 2004 YV_{13} 1 29.0 150°.82 0°.7/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.38	+17 31.0	2.024	2.810	14.3	21.3
1 2	9 7.08	+18 8.6	1.944	2.819	11.0	21.1
1 12	8 59.37	+18 55.4	1.888	2.828	7.2	20.9
1 22	8 49.90	+19 46.7	1.860	2.836	3.0	20.6
2 1	8 39.60	+20 37.0	1.861	2.844	1.7	20.5
2 11	8 29.63	+21 21.3	1.893	2.851	5.8	20.8
2 21	8 21.04	+21 56.2	1.953	2.857	9.7	21.1
3 2	8 14.65	+22 20.1	2.038	2.862	13.1	21.3

328971 2010 VZ_{174} 1 29.0 3°.75 2°.5/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.08	+11 38.9	1.354	2.165	18.7	20.1
1 2	9 2.46	+11 33.2	1.280	2.164	14.8	19.8
1 12	8 56.86	+11 44.4	1.225	2.165	10.2	19.6
1 22	8 48.98	+12 10.8	1.193	2.166	5.2	19.3
2 1	8 39.99	+12 48.2	1.186	2.168	2.7	19.1
2 11	8 31.41	+13 30.3	1.205	2.172	7.0	19.4
2 21	8 24.58	+14 11.2	1.248	2.176	11.9	19.7
3 2	8 20.51	+14 46.2	1.314	2.182	16.2	20.0

284088 2005 LD_{35} 1 29.0 166°.00 0°.3/29.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.58	+14 55.9	2.860	3.634	10.8	21.6
1 2	9 1.22	+15 22.0	2.769	3.637	8.4	21.4
1 12	8 55.24	+15 55.8	2.704	3.640	5.5	21.2
1 22	8 48.10	+16 34.7	2.667	3.642	2.4	21.0
2 1	8 40.40	+17 15.7	2.661	3.645	0.9	20.9
2 11	8 32.87	+17 55.3	2.686	3.647	4.1	21.1
2 21	8 26.19	+18 31.0	2.741	3.649	7.1	21.3
3 2	8 20.92	+19 0.7	2.822	3.650	9.7	21.5

254571 2005 GR_2 1 29.0 264°.03 2°.0/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.70	+20 42.9	1.794	2.598	15.1	21.1
1 2	9 6.41	+21 21.3	1.699	2.584	11.7	20.8
1 12	8 59.33	+22 8.3	1.625	2.569	7.7	20.6
1 22	8 50.03	+22 58.5	1.578	2.555	3.5	20.3
2 1	8 39.52	+23 45.5	1.560	2.540	2.8	20.2
2 11	8 29.15	+24 23.1	1.570	2.525	7.1	20.4
2 21	8 20.22	+24 47.8	1.606	2.510	11.5	20.6
3 2	8 13.78	+24 58.5	1.666	2.494	15.3	20.8

353381 2011 MA_1 1 29.0 181°.04 0°.7/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.70	+16 59.2	1.822	2.613	15.4	22.0
1 2	9 7.71	+17 40.3	1.737	2.614	11.9	21.8
1 12	9 0.02	+18 32.8	1.674	2.615	7.8	21.6
1 22	8 50.26	+19 31.6	1.638	2.615	3.3	21.3
2 1	8 39.47	+20 30.5	1.632	2.615	1.8	21.2
2 11	8 28.94	+21 23.1	1.655	2.614	6.4	21.5
2 21	8 19.90	+22 5.1	1.705	2.612	10.7	21.7
3 2	8 13.29	+22 34.6	1.780	2.609	14.5	21.9

298875 2004 SB_{17} 1 29.0 151°.47 4°.2/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.84	+25 15.8	1.756	2.561	15.3	21.1
1 2	9 8.80	+26 29.7	1.683	2.568	11.8	20.9
1 12	9 0.82	+27 48.9	1.633	2.574	8.0	20.7
1 22	8 50.61	+29 5.0	1.610	2.580	4.7	20.5
2 1	8 39.33	+30 9.2	1.616	2.585	5.0	20.5
2 11	8 28.44	+30 55.2	1.651	2.590	8.4	20.7
2 21	8 19.27	+31 20.6	1.711	2.594	12.1	21.0
3 2	8 12.80	+31 26.7	1.795	2.598	15.5	21.2

56412 2000 FM_{40} 1 29.0 309°.02 4°.8/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.72	+24 58.4	1.410	2.233	17.5	18.9
1 2	9 7.91	+26 9.0	1.335	2.230	13.6	18.7
1 12	9 0.65	+27 27.1	1.282	2.227	9.2	18.4
1 22	8 50.66	+28 43.3	1.253	2.225	5.4	18.2
2 1	8 39.29	+29 46.9	1.251	2.222	5.7	18.2
2 11	8 28.31	+30 29.9	1.275	2.220	9.7	18.4
2 21	8 19.36	+30 49.4	1.323	2.217	14.1	18.6
3 2	8 13.62	+30 46.7	1.391	2.215	18.1	18.9

83952 2001 WO_{80} 1 29.0 238°.40 2°.0/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.46	+ 9 54.6	2.650	3.411	11.9	20.3
1 2	9 1.29	+ 9 59.1	2.548	3.403	9.5	20.1
1 12	8 55.40	+10 14.1	2.470	3.395	6.6	19.9
1 22	8 48.21	+10 38.3	2.420	3.387	3.6	19.7
2 1	8 40.37	+11 9.5	2.399	3.379	2.1	19.6
2 11	8 32.66	+11 44.7	2.409	3.370	4.5	19.7
2 21	8 25.79	+12 20.7	2.448	3.362	7.6	19.9
3 2	8 20.41	+12 54.7	2.514	3.353	10.4	20.1

79160 1993 FO_{19} 1 29.0 268°.69 4°.1/ 1.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.06	+ 2 16.9	2.523	3.257	13.1	19.4
1 2	9 0.36	+ 2 26.1	2.415	3.244	10.8	19.2
1 12	8 54.88	+ 2 51.6	2.328	3.230	8.2	19.1
1 22	8 48.03	+ 3 33.4	2.267	3.216	5.5	18.9
2 1	8 40.45	+ 4 29.5	2.236	3.202	4.1	18.7
2 11	8 32.92	+ 5 36.4	2.234	3.188	5.4	18.8
2 21	8 26.23	+ 6 49.1	2.261	3.174	8.1	18.9
3 2	8 21.04	+ 8 2.7	2.315	3.160	11.0	19.1

39550 1992 ES_4 1 29.0 4°.60 0°.6/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.15	+16 59.3	1.898	2.697	14.6	19.4
1 2	9 3.30	+17 36.4	1.815	2.697	11.3	19.1
1 12	8 57.06	+18 24.0	1.754	2.697	7.4	18.9
1 22	8 49.00	+19 17.9	1.720	2.697	3.1	18.6
2 1	8 40.05	+20 12.3	1.715	2.698	1.7	18.5
2 11	8 31.36	+21 1.8	1.738	2.699	6.0	18.8
2 21	8 24.00	+21 42.2	1.789	2.699	10.1	19.1
3 2	8 18.81	+22 11.2	1.863	2.700	13.6	19.3

19968 Palazzolascaris 1 29.0 292°.22 0°.8/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.77	+14 45.2	1.949	2.739	14.6	18.4
1 2	9 3.77	+14 54.5	1.853	2.729	11.4	18.1
1 12	8 57.39	+15 14.5	1.780	2.718	7.6	17.9
1 22	8 49.16	+15 42.4	1.733	2.708	3.4	17.6
2 1	8 39.97	+16 14.6	1.714	2.698	1.4	17.4
2 11	8 30.96	+16 46.6	1.725	2.688	5.7	17.7
2 21	8 23.19	+17 14.8	1.762	2.678	9.9	17.9
3 2	8 17.53	+17 36.5	1.824	2.668	13.5	18.1

256021 2006 UO_{29} 1 29.0 186°.99 3°.4/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.76	+24 43.1	1.751	2.560	15.2	20.8
1 2	9 7.18	+25 26.6	1.672	2.560	11.7	20.6
1 12	8 59.75	+26 14.6	1.616	2.560	7.8	20.3
1 22	8 50.18	+27 0.2	1.587	2.560	4.2	20.1
2 1	8 39.57	+27 36.7	1.585	2.559	4.1	20.1
2 11	8 29.35	+27 58.9	1.612	2.559	7.8	20.3
2 21	8 20.79	+28 5.0	1.664	2.559	11.7	20.6
3 2	8 14.84	+27 55.7	1.739	2.559	15.2	20.8

7499 L′Aquila 1 29.0 73°.41 1°.4/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.66	+22 6.5	2.247	3.040	12.8	17.5
1 2	9 5.44	+22 15.8	2.174	3.053	9.8	17.3
1 12	8 58.13	+22 28.2	2.126	3.067	6.4	17.2
1 22	8 49.34	+22 40.2	2.105	3.081	2.8	17.0
2 1	8 39.97	+22 48.2	2.114	3.095	2.1	16.9
2 11	8 31.02	+22 49.7	2.153	3.109	5.4	17.2
2 21	8 23.37	+22 43.5	2.221	3.123	8.8	17.4
3 2	8 17.71	+22 29.8	2.313	3.137	11.8	17.6

65316 2002 JG_{103} 1 29.0 277°.32 1°.3/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.34	+13 5.2	1.656	2.450	16.6	20.2
1 2	9 5.52	+13 16.2	1.557	2.433	13.2	20.0
1 12	8 58.86	+13 41.7	1.479	2.417	9.0	19.7
1 22	8 49.90	+14 19.4	1.425	2.400	4.2	19.3
2 1	8 39.65	+15 4.8	1.399	2.383	1.8	19.1
2 11	8 29.47	+15 52.0	1.402	2.366	6.6	19.4
2 21	8 20.71	+16 35.6	1.430	2.349	11.4	19.6
3 2	8 14.47	+17 11.7	1.482	2.332	15.8	19.9

109962 2001 SN_{49} 1 29.0 146°.18 0°.1/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.58	+16 46.7	3.725	4.498	8.5	20.8
1 2	8 58.57	+17 10.6	3.636	4.504	6.5	20.7
1 12	8 53.35	+17 39.2	3.573	4.511	4.3	20.5
1 22	8 47.29	+18 10.7	3.540	4.517	1.8	20.3
2 1	8 40.84	+18 42.7	3.539	4.522	0.8	20.3
2 11	8 34.53	+19 13.0	3.569	4.528	3.3	20.5
2 21	8 28.85	+19 39.7	3.629	4.533	5.6	20.6
3 2	8 24.22	+20 1.6	3.716	4.538	7.7	20.8

50267 2000 BS_{29} 1 29.0 300°.79 7°.0/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.94	+30 15.3	1.618	2.439	15.7	18.8
1 2	9 6.49	+31 58.7	1.535	2.425	12.4	18.6
1 12	8 59.77	+33 46.5	1.476	2.412	9.2	18.4
1 22	8 50.37	+35 27.8	1.443	2.399	7.1	18.2
2 1	8 39.46	+36 50.9	1.436	2.387	8.0	18.2
2 11	8 28.71	+37 47.4	1.456	2.374	11.1	18.4
2 21	8 19.71	+38 14.5	1.499	2.362	14.7	18.6
3 2	8 13.73	+38 14.3	1.562	2.350	18.1	18.8

451404 2011 NJ_{1} 1 29.0 212°.75 2°.2/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.12	+11 25.6	1.943	2.711	15.4	21.8
1 2	9 8.67	+11 18.3	1.843	2.703	12.3	21.5
1 12	9 0.63	+11 23.0	1.765	2.694	8.5	21.3
1 22	8 50.57	+11 38.3	1.714	2.684	4.4	21.0
2 1	8 39.43	+12 1.4	1.693	2.674	2.4	20.8
2 11	8 28.44	+12 28.5	1.701	2.662	6.0	21.1
2 21	8 18.77	+12 55.9	1.738	2.650	10.2	21.3
3 2	8 11.38	+13 20.3	1.799	2.637	14.0	21.5

124903 2001 TU_{52} 1 29.0 27°.12 0°.6/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.24	+17 30.9	1.132	1.963	20.4	19.9
1 2	9 6.17	+17 48.9	1.073	1.971	15.8	19.7
1 12	8 59.51	+18 20.6	1.032	1.981	10.3	19.4
1 22	8 50.17	+19 0.2	1.013	1.992	4.3	19.1
2 1	8 39.65	+19 40.2	1.019	2.003	2.1	19.0
2 11	8 29.85	+20 13.2	1.050	2.016	8.1	19.4
2 21	8 22.36	+20 34.7	1.105	2.029	13.5	19.7
3 2	8 18.22	+20 43.3	1.179	2.043	18.0	20.0

83488 2001 SK_{105} 1 29.0 174°.15 5°.2/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.29	+35 25.4	2.677	3.464	11.1	19.5
1 2	9 7.47	+36 6.4	2.599	3.465	8.9	19.4
1 12	8 59.49	+36 42.9	2.547	3.466	6.7	19.2
1 22	8 49.95	+37 9.3	2.522	3.467	5.3	19.1
2 1	8 39.75	+37 21.0	2.527	3.468	5.6	19.2
2 11	8 29.91	+37 15.9	2.561	3.469	7.5	19.3
2 21	8 21.36	+36 54.1	2.622	3.469	9.7	19.4
3 2	8 14.81	+36 18.0	2.708	3.469	11.9	19.6

432546 2010 HW_{80} 1 29.0 255°.57 0°.2/29.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.96	+16 14.5	2.541	3.322	11.8	22.0
1 2	9 2.60	+16 28.5	2.438	3.310	9.2	21.7
1 12	8 56.35	+16 49.9	2.360	3.298	6.1	21.5
1 22	8 48.68	+17 16.2	2.309	3.285	2.6	21.3
2 1	8 40.26	+17 44.4	2.289	3.273	1.1	21.1
2 11	8 31.97	+18 11.1	2.299	3.260	4.7	21.4
2 21	8 24.62	+18 33.6	2.338	3.247	8.1	21.6
3 2	8 18.88	+18 50.3	2.403	3.234	11.1	21.7

331085 2009 WC_{138} 1 29.0 152°.75 2°.5/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.04	+ 9 23.1	2.175	2.940	14.0	21.7
1 2	9 3.58	+ 9 24.5	2.087	2.944	11.2	21.5
1 12	8 57.04	+ 9 38.8	2.022	2.947	7.8	21.3
1 22	8 48.97	+10 4.4	1.983	2.950	4.3	21.1
2 1	8 40.16	+10 38.7	1.974	2.953	2.5	21.0
2 11	8 31.59	+11 17.8	1.994	2.956	5.2	21.2
2 21	8 24.16	+11 57.8	2.043	2.959	8.7	21.4
3 2	8 18.58	+12 35.2	2.117	2.961	11.9	21.6

298329 2003 FV_{50} 1 29.0 194°.03 3°.1/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.79	+ 8 40.4	1.925	2.689	15.7	20.9
1 2	9 6.81	+ 8 36.0	1.832	2.687	12.6	20.7
1 12	8 59.36	+ 8 46.3	1.761	2.685	8.9	20.5
1 22	8 50.02	+ 9 10.3	1.716	2.682	5.1	20.2
2 1	8 39.70	+ 9 45.2	1.700	2.678	3.1	20.1
2 11	8 29.59	+10 26.7	1.713	2.674	6.0	20.3
2 21	8 20.79	+11 10.1	1.754	2.668	10.0	20.5
3 2	8 14.19	+11 51.4	1.820	2.663	13.6	20.7

234194 2000 QS_{142} 1 29.0 148°.15 5°.5/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.20	+32 6.6	2.037	2.828	14.0	20.9
1 2	9 12.54	+33 0.5	1.968	2.840	11.0	20.7
1 12	9 3.05	+33 51.5	1.922	2.851	8.0	20.6
1 22	8 51.51	+34 32.0	1.905	2.861	5.7	20.4
2 1	8 39.12	+34 55.4	1.916	2.870	6.1	20.5
2 11	8 27.28	+34 58.3	1.957	2.878	8.5	20.6
2 21	8 17.22	+34 41.3	2.024	2.886	11.5	20.8
3 2	8 9.84	+34 7.6	2.115	2.892	14.3	21.0

166823 2002 VE_{96} 1 29.0 309°.58 4°.1/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.64	+29 16.0	2.213	3.015	12.7	19.9
1 2	9 5.81	+29 54.0	2.131	3.012	9.9	19.7
1 12	8 58.60	+30 31.6	2.073	3.010	6.9	19.5
1 22	8 49.65	+31 3.0	2.043	3.008	4.5	19.3
2 1	8 39.90	+31 23.2	2.041	3.005	4.7	19.3
2 11	8 30.47	+31 28.6	2.069	3.003	7.3	19.5
2 21	8 22.41	+31 18.7	2.123	3.001	10.3	19.7
3 2	8 16.50	+30 54.9	2.201	2.999	13.1	19.9

330903 2009 SG_{66} 1 29.0 130°.30 0°.5/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.07	+17 10.0	2.072	2.862	13.8	22.1
1 2	9 4.53	+17 41.6	1.991	2.868	10.7	21.9
1 12	8 57.74	+18 22.2	1.933	2.874	7.0	21.6
1 22	8 49.28	+19 7.7	1.903	2.880	2.9	21.4
2 1	8 40.05	+19 53.3	1.902	2.886	1.5	21.3
2 11	8 31.12	+20 34.3	1.931	2.891	5.6	21.6
2 21	8 23.46	+21 7.3	1.988	2.896	9.4	21.8
3 2	8 17.83	+21 30.5	2.070	2.901	12.6	22.0

255751 2006 RO_{18} 1 29.0 102°.58 0°.8/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.82	+14 27.8	1.868	2.652	15.3	21.3
1 2	9 6.70	+14 39.1	1.797	2.669	11.9	21.1
1 12	8 59.15	+15 1.1	1.748	2.685	7.9	20.9
1 22	8 49.86	+15 30.7	1.726	2.701	3.5	20.7
2 1	8 39.83	+16 3.6	1.732	2.716	1.4	20.6
2 11	8 30.26	+16 35.3	1.768	2.731	5.6	20.9
2 21	8 22.17	+17 2.5	1.832	2.746	9.7	21.1
3 2	8 16.35	+17 22.9	1.921	2.760	13.1	21.4

392761 2012 TT_{53} 1 29.0 54°.83 4°.0/30.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.50	+ 7 52.1	1.193	1.993	21.4	20.5
1 2	9 6.77	+ 7 49.0	1.135	2.010	17.1	20.3
1 12	8 59.71	+ 8 9.3	1.096	2.028	12.0	20.1
1 22	8 50.21	+ 8 51.1	1.078	2.046	6.8	19.8
2 1	8 39.69	+ 9 49.0	1.085	2.065	4.0	19.7
2 11	8 29.87	+10 54.7	1.118	2.084	7.6	20.0
2 21	8 22.19	+11 59.8	1.175	2.103	12.5	20.3
3 2	8 17.63	+12 57.7	1.254	2.122	16.9	20.6

288578 2004 HJ_{60} 1 29.0 230°.01 4°.2/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.57	+25 59.6	1.624	2.432	16.2	21.0
1 2	9 10.55	+26 47.4	1.538	2.424	12.7	20.7
1 12	9 2.26	+27 39.6	1.474	2.416	8.6	20.4
1 22	8 51.37	+28 28.4	1.437	2.407	4.9	20.2
2 1	8 39.14	+29 5.3	1.426	2.398	5.0	20.2
2 11	8 27.22	+29 24.3	1.444	2.389	8.8	20.4
2 21	8 17.16	+29 23.7	1.487	2.379	13.1	20.6
3 2	8 10.10	+29 5.3	1.553	2.368	16.9	20.8

492746 2014 QT_{136} 1 29.0 273°.30 0°.6/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.80	+14 41.2	1.649	2.446	16.5	21.7
1 2	9 5.90	+14 59.1	1.552	2.432	13.0	21.4
1 12	8 59.13	+15 30.7	1.476	2.417	8.7	21.2
1 22	8 50.05	+16 12.7	1.426	2.402	3.9	20.8
2 1	8 39.68	+17 0.0	1.403	2.387	1.5	20.6
2 11	8 29.42	+17 46.4	1.408	2.372	6.7	20.9
2 21	8 20.63	+18 26.7	1.440	2.357	11.5	21.2
3 2	8 14.40	+18 57.6	1.494	2.341	15.8	21.4

427564 2002 VD_{146} 1 29.0 2°.67 7°.2/ 2.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.21	− 0 33.1	1.667	2.422	18.1	20.6
1 2	8 59.71	− 1 6.9	1.586	2.421	15.2	20.4
1 12	8 54.82	− 1 17.8	1.524	2.421	12.1	20.2
1 22	8 48.13	− 1 3.6	1.484	2.422	9.0	20.0
2 1	8 40.55	− 0 25.0	1.468	2.424	7.3	19.9
2 11	8 33.22	+ 0 34.0	1.479	2.427	8.2	19.9
2 21	8 27.21	+ 1 46.3	1.514	2.431	11.0	20.1
3 2	8 23.36	+ 3 4.4	1.573	2.437	14.3	20.3

332568 2008 RW_{133} 1 29.0 99°.47 5°.6/ 2.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.54	+ 0 4.4	2.252	2.975	14.8	21.2
1 2	9 3.02	− 0 18.0	2.174	2.991	12.3	21.0
1 12	8 56.57	− 0 23.0	2.117	3.006	9.6	20.8
1 22	8 48.75	− 0 9.8	2.086	3.022	7.0	20.7
2 1	8 40.32	+ 0 20.3	2.082	3.036	5.6	20.7
2 11	8 32.18	+ 1 4.1	2.107	3.051	6.5	20.7
2 21	8 25.14	+ 1 56.9	2.160	3.065	8.9	20.9
3 2	8 19.85	+ 2 53.8	2.239	3.080	11.5	21.1

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
175102 2004 JP_{42}			1 29.0 271°.87		2°.0/27.5 17	
	h m	° ′			°	m
12 23	9 6.66	+22 15.6	2.481	3.276	11.7	20.8
1 2	9 2.53	+22 57.4	2.383	3.264	9.0	20.6
1 12	8 56.39	+23 44.4	2.309	3.252	5.9	20.3
1 22	8 48.74	+24 32.2	2.264	3.239	2.8	20.1
2 1	8 40.29	+25 16.3	2.249	3.227	2.6	20.1
2 11	8 31.96	+25 52.5	2.264	3.214	5.7	20.3
2 21	8 24.63	+26 18.1	2.307	3.202	8.9	20.4
3 2	8 19.02	+26 32.4	2.375	3.189	11.8	20.6
450966 2008 PK_{8}			1 29.0 100°.43		2°.2/30.2 15	
12 23	9 15.62	+11 14.5	1.642	2.418	17.4	22.2
1 2	9 9.78	+11 14.0	1.579	2.444	13.7	22.0
1 12	9 1.22	+11 27.9	1.537	2.468	9.3	21.8
1 22	8 50.73	+11 53.6	1.521	2.492	4.7	21.6
2 1	8 39.50	+12 27.0	1.533	2.515	2.4	21.5
2 11	8 28.90	+13 3.0	1.575	2.538	6.2	21.8
2 21	8 20.09	+13 37.1	1.644	2.559	10.4	22.1
3 2	8 13.87	+14 6.3	1.737	2.580	14.1	22.4
335916 2007 SM_{10}			1 29.0 116°.55		4°.5/ 1.7 18	
12 23	9 5.89	+ 1 30.6	2.568	3.293	13.1	21.1
1 2	9 1.55	+ 1 23.4	2.484	3.305	10.8	21.0
1 12	8 55.52	+ 1 31.3	2.422	3.317	8.3	20.8
1 22	8 48.29	+ 1 54.4	2.387	3.329	5.8	20.7
2 1	8 40.51	+ 2 31.1	2.380	3.340	4.5	20.6
2 11	8 32.95	+ 3 18.2	2.403	3.351	5.5	20.7
2 21	8 26.32	+ 4 11.7	2.454	3.362	7.8	20.8
3 2	8 21.21	+ 5 7.3	2.533	3.373	10.3	21.0
245280 2005 BK_{48}			1 29.0 133°.64		2°.6/30.9 18	
12 23	9 6.13	+ 8 11.7	2.489	3.246	12.7	21.2
1 2	9 1.85	+ 8 13.1	2.401	3.251	10.1	21.0
1 12	8 55.78	+ 8 26.5	2.336	3.257	7.2	20.8
1 22	8 48.42	+ 8 50.7	2.298	3.262	4.2	20.6
2 1	8 40.45	+ 9 23.5	2.289	3.267	2.6	20.6
2 11	8 32.69	+10 1.5	2.311	3.271	4.7	20.7
2 21	8 25.89	+10 41.3	2.362	3.276	7.8	20.9
3 2	8 20.68	+11 19.6	2.438	3.280	10.6	21.1
257848 2000 MJ			1 29.0 286°.45		5°.6/25.0 18	
12 23	9 9.49	+27 28.2	1.764	2.579	14.8	19.9
1 2	9 5.81	+29 3.6	1.676	2.565	11.6	19.7
1 12	8 59.17	+30 45.6	1.612	2.552	8.2	19.4
1 22	8 50.11	+32 24.8	1.575	2.538	5.7	19.3
2 1	8 39.68	+33 50.8	1.565	2.524	6.5	19.3
2 11	8 29.34	+34 55.5	1.583	2.511	9.7	19.4
2 21	8 20.52	+35 35.3	1.626	2.497	13.3	19.6
3 2	8 14.38	+35 50.8	1.691	2.484	16.7	19.8
353278 2010 FS_{84}			1 29.0 217°.15		2°.8/30.7 18	
12 23	9 11.01	+ 8 35.3	1.997	2.759	15.2	21.8
1 2	9 6.23	+ 8 41.8	1.896	2.751	12.2	21.6
1 12	8 59.02	+ 9 3.5	1.817	2.741	8.6	21.4
1 22	8 49.92	+ 9 39.2	1.765	2.731	4.8	21.1
2 1	8 39.79	+10 25.9	1.741	2.721	2.8	21.0
2 11	8 29.76	+11 18.7	1.748	2.709	5.8	21.1
2 21	8 20.93	+12 12.5	1.782	2.697	9.8	21.3
3 2	8 14.21	+13 3.0	1.842	2.684	13.5	21.6
417026 2005 UV_{85}			1 29.0 129°.68		0°.5/29.4 18	
12 23	9 10.16	+14 27.3	2.279	3.054	13.2	22.6
1 2	9 5.06	+14 50.5	2.201	3.069	10.2	22.4
1 12	8 57.93	+15 23.2	2.147	3.082	6.8	22.2
1 22	8 49.33	+16 2.2	2.120	3.096	3.0	22.0
2 1	8 40.09	+16 43.7	2.124	3.108	1.1	21.9
2 11	8 31.17	+17 23.4	2.159	3.120	4.9	22.2
2 21	8 23.42	+17 58.3	2.223	3.132	8.4	22.4
3 2	8 17.54	+18 26.2	2.312	3.143	11.5	22.6
429349 2010 FY_{83}			1 29.0 247°.80		0°.7/29.6 17	
12 23	9 5.52	+12 41.3	2.476	3.250	12.3	21.4
1 2	9 1.57	+13 17.7	2.374	3.241	9.6	21.2
1 12	8 55.74	+14 5.7	2.297	3.232	6.4	20.9
1 22	8 48.47	+15 2.5	2.248	3.222	2.9	20.7
2 1	8 40.45	+16 4.0	2.229	3.212	1.1	20.5
2 11	8 32.53	+17 5.7	2.240	3.203	4.7	20.8
2 21	8 25.51	+18 3.4	2.281	3.193	8.1	21.0
3 2	8 20.09	+18 53.7	2.348	3.182	11.2	21.2
227492 2005 XR_{50}			1 29.0 113°.53		4°.3/25.9 18	
12 23	9 12.81	+28 39.3	2.264	3.060	12.6	21.5
1 2	9 7.30	+29 45.1	2.201	3.079	9.8	21.3
1 12	8 59.48	+30 51.1	2.163	3.098	6.8	21.1
1 22	8 50.01	+31 50.6	2.153	3.116	4.5	21.0
2 1	8 39.84	+32 37.6	2.173	3.133	4.9	21.1
2 11	8 30.09	+33 8.3	2.223	3.150	7.3	21.3
2 21	8 21.74	+33 21.7	2.299	3.167	10.1	21.5
3 2	8 15.54	+33 19.3	2.400	3.183	12.6	21.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
443027 2013 ED_{24}			1 29.0 256°.82		1°.5/27.5 17	
	h m	° ′			°	m
12 23	9 3.67	+22 47.5	3.464	4.251	8.8	22.0
1 2	8 59.65	+23 21.1	3.362	4.239	6.8	21.9
1 12	8 54.23	+23 57.7	3.286	4.226	4.4	21.7
1 22	8 47.76	+24 34.4	3.239	4.213	2.1	21.5
2 1	8 40.78	+25 8.2	3.223	4.200	2.0	21.5
2 11	8 33.88	+25 36.5	3.239	4.187	4.2	21.6
2 21	8 27.65	+25 57.6	3.284	4.174	6.7	21.8
3 2	8 22.60	+26 10.6	3.355	4.161	8.9	21.9
337510 2001 SK_{136}			1 29.0 179°.77		2°.4/27.4 18	
12 23	9 9.81	+24 51.9	2.501	3.294	11.7	20.9
1 2	9 4.80	+25 16.2	2.415	3.294	9.0	20.7
1 12	8 57.78	+25 42.4	2.354	3.294	5.9	20.5
1 22	8 49.30	+26 6.3	2.322	3.294	3.1	20.3
2 1	8 40.15	+26 24.0	2.319	3.294	2.9	20.3
2 11	8 31.27	+26 32.7	2.347	3.294	5.7	20.5
2 21	8 23.53	+26 31.1	2.403	3.294	8.7	20.7
3 2	8 17.60	+26 19.5	2.484	3.293	11.5	20.9
408711 2014 NB_{54}			1 29.1 114°.54		1°.4/28.3 18	
12 23	9 15.71	+21 6.2	2.140	2.923	13.7	23.1
1 2	9 9.37	+21 27.3	2.073	2.947	10.5	22.9
1 12	9 0.74	+21 52.6	2.030	2.969	6.8	22.7
1 22	8 50.53	+22 17.9	2.015	2.991	2.9	22.5
2 1	8 39.71	+22 38.9	2.031	3.012	2.1	22.5
2 11	8 29.41	+22 52.1	2.078	3.032	5.7	22.8
2 21	8 20.59	+22 56.4	2.153	3.052	9.2	23.0
3 2	8 13.96	+22 51.8	2.254	3.071	12.2	23.2
188110 2002 AM_{32}			1 29.1 49°.88		2°.6/27.6 18	
12 23	9 12.51	+21 6.3	1.467	2.281	17.4	19.0
1 2	9 7.73	+22 4.6	1.424	2.314	13.2	18.9
1 12	9 0.00	+23 10.1	1.403	2.348	8.5	18.7
1 22	8 50.26	+24 14.8	1.407	2.383	3.9	18.5
2 1	8 39.85	+25 10.7	1.439	2.417	3.5	18.5
2 11	8 30.27	+25 51.9	1.498	2.452	7.6	18.9
2 21	8 22.72	+26 16.3	1.583	2.487	11.6	19.2
3 2	8 17.95	+26 24.7	1.691	2.521	15.0	19.5
282206 2001 VN_{61}			1 29.1 81°.20		3°.3/30.5 18	
12 23	9 13.38	+10 35.2	1.473	2.260	18.6	20.9
1 2	9 8.51	+10 9.8	1.403	2.273	14.8	20.6
1 12	9 0.67	+ 9 59.7	1.354	2.285	10.3	20.4
1 22	8 50.64	+10 3.9	1.329	2.298	5.7	20.2
2 1	8 39.66	+10 19.4	1.331	2.311	3.4	20.1
2 11	8 29.23	+10 42.0	1.360	2.323	6.9	20.3
2 21	8 20.66	+11 7.1	1.415	2.336	11.4	20.6
3 2	8 14.88	+11 30.5	1.493	2.348	15.4	20.9
263494 2008 EP_{100}			1 29.1 264°.85		1°.7/30.6 18	
12 23	9 3.51	+ 8 53.9	2.709	3.469	11.7	20.7
1 2	8 59.82	+ 9 27.9	2.611	3.466	9.3	20.5
1 12	8 54.49	+10 14.4	2.537	3.463	6.4	20.3
1 22	8 47.95	+11 11.4	2.491	3.459	3.4	20.1
2 1	8 40.78	+12 15.6	2.475	3.456	1.8	20.0
2 11	8 33.74	+13 22.8	2.490	3.453	4.2	20.2
2 21	8 27.49	+14 28.8	2.535	3.450	7.3	20.3
3 2	8 22.66	+15 30.0	2.607	3.446	10.1	20.5
20598 1999 RO_{194}			1 29.1 133°.23		1°.6/30.1 18	
12 23	9 8.55	+11 43.8	2.231	3.003	13.5	18.9
1 2	9 3.93	+11 52.5	2.147	3.010	10.6	18.7
1 12	8 57.27	+12 12.2	2.087	3.018	7.3	18.5
1 22	8 49.13	+12 41.0	2.053	3.025	3.6	18.3
2 1	8 40.30	+13 15.7	2.049	3.032	1.8	18.2
2 11	8 31.74	+13 52.4	2.075	3.038	4.9	18.4
2 21	8 24.32	+14 27.6	2.130	3.044	8.5	18.6
3 2	8 18.73	+14 58.4	2.211	3.050	11.6	18.9
125738 2001 XE_{116}			1 29.1 16°.61		3°.7/27.6 18	
12 23	9 12.46	+24 33.8	1.243	2.073	19.0	18.7
1 2	9 8.67	+24 59.4	1.177	2.076	14.7	18.5
1 12	9 1.22	+25 29.6	1.131	2.079	9.8	18.2
1 22	8 50.99	+25 56.8	1.108	2.084	5.0	17.9
2 1	8 39.53	+26 13.1	1.111	2.089	4.5	17.9
2 11	8 28.76	+26 13.2	1.139	2.095	9.1	18.2
2 21	8 20.33	+25 56.3	1.190	2.101	13.9	18.5
3 2	8 15.32	+25 24.6	1.262	2.108	18.2	18.8
336300 2008 SK_{309}			1 29.1 346°.53		4°.4/31.9 18	
12 23	9 6.62	+ 4 37.7	2.179	2.928	14.5	21.2
1 2	9 2.54	+ 4 16.5	2.088	2.928	11.9	21.1
1 12	8 56.43	+ 4 10.1	2.019	2.928	8.9	20.9
1 22	8 48.81	+ 4 18.7	1.975	2.927	5.9	20.7
2 1	8 40.45	+ 4 41.3	1.959	2.927	4.4	20.6
2 11	8 32.28	+ 5 14.6	1.972	2.927	6.0	20.7
2 21	8 25.19	+ 5 54.8	2.013	2.927	8.9	20.9
3 2	8 19.89	+ 6 37.5	2.080	2.927	12.0	21.0

209623 2005 AF_{43} 1 29.1 350°.09 0°.8/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.33	+13 45.3	1.317	2.134	18.8	19.7
1 2	9 3.71	+14 6.3	1.239	2.129	14.8	19.4
1 12	8 57.92	+14 45.0	1.180	2.124	9.9	19.1
1 22	8 49.65	+15 37.4	1.144	2.121	4.4	18.8
2 1	8 40.08	+16 37.2	1.134	2.118	1.7	18.6
2 11	8 30.84	+17 36.2	1.150	2.116	7.3	19.0
2 21	8 23.41	+18 27.6	1.190	2.115	12.6	19.3
3 2	8 18.92	+19 7.0	1.251	2.115	17.2	19.5

434335 2004 LF_{9} 1 29.1 257°.28 0°.3/29.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.41	+14 0.7	2.801	3.574	11.1	21.9
1 2	9 1.35	+14 40.0	2.689	3.556	8.6	21.7
1 12	8 55.56	+15 29.1	2.602	3.537	5.7	21.5
1 22	8 48.44	+16 25.5	2.543	3.519	2.5	21.2
2 1	8 40.59	+17 25.3	2.516	3.500	1.0	21.1
2 11	8 32.76	+18 24.6	2.520	3.481	4.4	21.3
2 21	8 25.69	+19 19.5	2.553	3.461	7.6	21.5
3 2	8 20.04	+20 7.4	2.614	3.441	10.4	21.6

237692 2001 TY_{248} 1 29.1 238°.43 5°.1/25.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.01	+32 45.7	2.407	3.204	11.9	20.6
1 2	9 6.05	+33 36.7	2.326	3.200	9.4	20.4
1 12	8 58.79	+34 25.3	2.269	3.197	6.9	20.2
1 22	8 49.82	+35 5.6	2.239	3.193	5.2	20.1
2 1	8 40.04	+35 32.2	2.239	3.189	5.6	20.1
2 11	8 30.55	+35 41.6	2.267	3.185	7.8	20.2
2 21	8 22.36	+35 33.5	2.322	3.181	10.4	20.4
3 2	8 16.24	+35 9.5	2.400	3.176	12.8	20.6

340743 2006 SC_{208} 1 29.1 167°.16 4°.4/ 2.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.87	− 0 49.3	3.030	3.734	11.7	22.2
1 2	9 0.60	− 0 48.2	2.934	3.738	9.8	22.0
1 12	8 54.87	− 0 32.5	2.860	3.742	7.6	21.9
1 22	8 48.08	− 0 2.3	2.813	3.745	5.6	21.8
2 1	8 40.78	+ 0 41.2	2.795	3.748	4.4	21.7
2 11	8 33.61	+ 1 35.2	2.808	3.751	5.1	21.7
2 21	8 27.18	+ 2 36.1	2.850	3.753	7.1	21.9
3 2	8 22.02	+ 3 39.8	2.919	3.754	9.2	22.0

260105 2004 NR_{31} 1 29.1 146°.68 0°.2/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.71	+16 40.4	2.037	2.824	14.1	20.9
1 2	9 5.85	+16 48.0	1.953	2.827	11.0	20.7
1 12	8 58.66	+17 3.8	1.892	2.831	7.2	20.5
1 22	8 49.77	+17 24.7	1.858	2.834	3.1	20.2
2 1	8 40.08	+17 47.0	1.853	2.837	1.2	20.1
2 11	8 30.71	+18 7.0	1.878	2.840	5.5	20.4
2 21	8 22.65	+18 22.0	1.931	2.843	9.4	20.6
3 2	8 16.70	+18 30.4	2.009	2.845	12.8	20.8

57769 2001 VH_{43} 1 29.1 118°.95 0°.8/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.03	+17 59.3	2.228	3.012	13.2	19.4
1 2	9 5.82	+18 36.6	2.155	3.030	10.1	19.2
1 12	8 58.49	+19 21.4	2.107	3.047	6.6	19.0
1 22	8 49.64	+20 9.5	2.087	3.064	2.7	18.8
2 1	8 40.15	+20 56.0	2.097	3.080	1.6	18.8
2 11	8 31.01	+21 36.6	2.138	3.096	5.3	19.0
2 21	8 23.13	+22 8.5	2.208	3.111	8.8	19.3
3 2	8 17.21	+22 30.4	2.303	3.125	11.8	19.5

108269 2001 HH_{56} 1 29.1 296°.75 0°.7/28.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.75	+19 18.4	2.018	2.813	14.0	19.7
1 2	9 5.48	+19 26.2	1.906	2.786	10.9	19.4
1 12	8 58.70	+19 40.5	1.818	2.760	7.2	19.1
1 22	8 49.91	+19 58.2	1.756	2.733	3.1	18.8
2 1	8 39.97	+20 15.2	1.723	2.707	1.7	18.7
2 11	8 30.06	+20 27.5	1.720	2.680	6.1	18.9
2 21	8 21.34	+20 32.6	1.744	2.653	10.3	19.1
3 2	8 14.78	+20 29.4	1.791	2.627	14.1	19.3

320806 2008 EB_{166} 1 29.1 264°.51 0°.6/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.32	+14 3.3	1.952	2.739	14.7	20.9
1 2	9 4.32	+14 28.4	1.852	2.726	11.5	20.6
1 12	8 57.88	+15 6.1	1.775	2.713	7.7	20.4
1 22	8 49.53	+15 53.4	1.724	2.699	3.4	20.1
2 1	8 40.14	+16 45.7	1.702	2.685	1.3	19.9
2 11	8 30.85	+17 37.5	1.709	2.672	5.8	20.2
2 21	8 22.75	+18 24.1	1.743	2.658	10.0	20.4
3 2	8 16.78	+19 2.1	1.803	2.644	13.8	20.6

20405 Barryburke 1 29.1 70°.05 2°.1/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.68	+21 14.9	1.648	2.456	16.0	18.6
1 2	9 7.11	+21 49.5	1.579	2.466	12.3	18.4
1 12	8 59.72	+22 31.1	1.533	2.477	8.0	18.2
1 22	8 50.26	+23 13.7	1.512	2.488	3.6	17.9
2 1	8 39.89	+23 51.0	1.519	2.499	2.9	17.9
2 11	8 30.04	+24 17.8	1.554	2.510	7.1	18.2
2 21	8 21.92	+24 31.6	1.616	2.521	11.3	18.4
3 2	8 16.42	+24 32.3	1.700	2.532	14.9	18.7

263301 2008 CZ_{17} 1 29.1 352°.42 0°.6/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.03	+14 38.3	1.711	2.507	16.0	21.2
1 2	9 5.04	+14 55.3	1.627	2.506	12.5	21.0
1 12	8 58.40	+15 24.8	1.566	2.506	8.4	20.7
1 22	8 49.74	+16 3.5	1.530	2.505	3.7	20.5
2 1	8 40.09	+16 46.4	1.521	2.505	1.4	20.3
2 11	8 30.73	+17 28.0	1.541	2.505	6.2	20.6
2 21	8 22.85	+18 3.9	1.588	2.505	10.6	20.9
3 2	8 17.37	+18 31.3	1.658	2.505	14.5	21.1

152425 2005 UL_{396} 1 29.1 71°.44 4°.0/ 1.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.08	+ 3 26.3	1.906	2.661	16.1	20.0
1 2	9 2.44	+ 3 51.6	1.819	2.664	13.1	19.8
1 12	8 56.54	+ 4 38.2	1.752	2.666	9.6	19.6
1 22	8 48.92	+ 5 45.0	1.711	2.669	6.0	19.4
2 1	8 40.43	+ 7 8.0	1.698	2.672	4.0	19.2
2 11	8 32.16	+ 8 40.5	1.714	2.675	6.0	19.4
2 21	8 25.10	+10 15.2	1.758	2.678	9.6	19.6
3 2	8 20.06	+11 45.4	1.827	2.681	13.1	19.8

444401 2005 YU_{286} 1 29.1 101°.42 1°.3/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.66	+14 17.9	1.527	2.319	17.8	21.4
1 2	9 9.46	+14 12.7	1.457	2.333	13.9	21.2
1 12	9 1.28	+14 19.8	1.408	2.346	9.3	20.9
1 22	8 50.92	+14 36.3	1.384	2.358	4.3	20.7
2 1	8 39.63	+14 57.8	1.387	2.371	1.8	20.5
2 11	8 28.90	+15 19.8	1.419	2.383	6.6	20.8
2 21	8 20.04	+15 38.4	1.477	2.395	11.2	21.1
3 2	8 13.96	+15 51.4	1.559	2.407	15.2	21.4

199653 2006 GF_{37} 1 29.1 158°.75 1°.1/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.40	+19 30.1	2.257	3.049	12.8	21.0
1 2	9 3.93	+20 2.1	2.172	3.051	9.8	20.8
1 12	8 57.35	+20 40.8	2.111	3.053	6.4	20.6
1 22	8 49.21	+21 22.2	2.078	3.055	2.7	20.4
2 1	8 40.33	+22 1.6	2.074	3.056	1.9	20.3
2 11	8 31.69	+22 35.0	2.101	3.058	5.5	20.6
2 21	8 24.21	+22 59.7	2.155	3.059	9.0	20.8
3 2	8 18.62	+23 14.4	2.235	3.060	12.1	21.0

280459 2004 EG_{86} 1 29.1 32°.27 0°.2/29.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.97	+14 58.2	1.317	2.130	19.0	20.1
1 2	9 6.52	+15 36.4	1.243	2.132	14.8	19.8
1 12	8 59.76	+16 32.0	1.189	2.134	9.8	19.6
1 22	8 50.43	+17 39.5	1.159	2.137	4.2	19.2
2 1	8 39.80	+18 50.7	1.155	2.139	1.8	19.1
2 11	8 29.58	+19 56.6	1.177	2.142	7.6	19.5
2 21	8 21.30	+20 50.6	1.225	2.144	12.9	19.8
3 2	8 16.09	+21 29.3	1.293	2.147	17.3	20.0

46234 2001 HK_{9} 1 29.1 148°.46 3°.5/31.9 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.63	+ 4 7.3	2.838	3.568	11.9	19.2
1 2	9 2.01	+ 4 4.6	2.749	3.577	9.7	19.1
1 12	8 55.81	+ 4 14.4	2.683	3.586	7.2	18.9
1 22	8 48.49	+ 4 36.2	2.644	3.595	4.7	18.8
2 1	8 40.64	+ 5 8.5	2.635	3.603	3.5	18.7
2 11	8 32.98	+ 5 48.5	2.657	3.610	4.7	18.8
2 21	8 26.17	+ 6 32.7	2.708	3.617	7.1	19.0
3 2	8 20.74	+ 7 17.9	2.787	3.624	9.6	19.2

369424 2009 WB_{205} 1 29.1 73°.88 0°.2/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.06	+17 28.7	1.933	2.726	14.6	21.2
1 2	9 5.40	+17 41.5	1.859	2.737	11.2	21.0
1 12	8 58.37	+18 2.3	1.807	2.748	7.4	20.8
1 22	8 49.64	+18 27.7	1.782	2.759	3.1	20.6
2 1	8 40.17	+18 53.3	1.786	2.770	1.4	20.5
2 11	8 31.10	+19 15.3	1.819	2.781	5.6	20.8
2 21	8 23.45	+19 31.0	1.880	2.792	9.6	21.0
3 2	8 17.97	+19 39.0	1.965	2.803	13.0	21.3

422054 2014 QE_{366} 1 29.1 195°.30 0°.3/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.51	+14 52.1	2.124	2.902	13.9	22.3
1 2	9 6.48	+15 18.9	2.030	2.899	10.9	22.1
1 12	8 59.13	+15 56.4	1.960	2.896	7.2	21.9
1 22	8 50.01	+16 41.2	1.917	2.892	3.1	21.6
2 1	8 39.99	+17 28.9	1.904	2.888	1.2	21.5
2 11	8 30.14	+18 14.5	1.921	2.883	5.4	21.8
2 21	8 21.50	+18 54.2	1.968	2.877	9.4	22.0
3 2	8 14.90	+19 25.5	2.039	2.870	12.8	22.2

330164 2006 BS_{141} 1 29.1 202°.29 0°.7/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.37	+17 47.6	2.163	2.954	13.3	21.0
1 2	9 4.04	+18 22.9	2.074	2.952	10.3	20.8
1 12	8 57.50	+19 6.9	2.009	2.950	6.7	20.6
1 22	8 49.31	+19 55.6	1.971	2.948	2.8	20.3
2 1	8 40.29	+20 44.0	1.963	2.946	1.6	20.2
2 11	8 31.48	+21 27.4	1.985	2.944	5.5	20.5
2 21	8 23.84	+22 2.5	2.035	2.941	9.3	20.7
3 2	8 18.15	+22 27.3	2.110	2.938	12.5	20.9

304076 2006 GP_{30} 1 29.1 251°.86 0°.2/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.32	+15 53.1	1.664	2.462	16.3	21.5
1 2	9 6.26	+16 22.2	1.574	2.455	12.7	21.3
1 12	8 59.36	+17 4.3	1.505	2.447	8.4	21.0
1 22	8 50.22	+17 55.2	1.462	2.439	3.6	20.7
2 1	8 39.89	+18 49.0	1.447	2.431	1.6	20.5
2 11	8 29.75	+19 39.1	1.460	2.422	6.7	20.8
2 21	8 21.13	+20 20.5	1.500	2.414	11.4	21.1
3 2	8 15.06	+20 50.5	1.563	2.405	15.5	21.3

503327 2016 BB_{6} 1 29.1 254°.25 2°.6/30.4 17

12 23	9 10.11	+10 51.1	2.048	2.818	14.6	21.5
1 2	9 5.50	+10 33.9	1.946	2.807	11.7	21.3
1 12	8 58.55	+10 27.7	1.868	2.795	8.2	21.1
1 22	8 49.79	+10 31.9	1.815	2.784	4.5	20.8
2 1	8 40.08	+10 44.5	1.792	2.772	2.7	20.7
2 11	8 30.51	+11 2.5	1.798	2.759	5.7	20.8
2 21	8 22.12	+11 22.7	1.832	2.747	9.6	21.0
3 2	8 15.75	+11 42.0	1.890	2.734	13.1	21.2

137012 1998 SY_{125} 1 29.1 86°.92 3°.0/27.4 18

12 23	9 15.02	+23 30.8	1.803	2.602	15.2	20.8
1 2	9 9.30	+24 21.0	1.747	2.630	11.6	20.6
1 12	9 0.92	+25 15.2	1.715	2.657	7.6	20.4
1 22	8 50.70	+26 6.7	1.710	2.683	3.9	20.3
2 1	8 39.78	+26 48.8	1.734	2.710	3.6	20.3
2 11	8 29.51	+27 17.1	1.787	2.735	7.1	20.6
2 21	8 21.00	+27 30.2	1.867	2.760	10.7	20.8
3 2	8 15.02	+27 29.1	1.971	2.785	13.9	21.1

113542 2002 TO_{26} 1 29.1 326°.56 4°.0/31.8 18

12 23	9 5.20	+ 5 1.0	2.147	2.902	14.5	19.5
1 2	9 1.54	+ 4 55.3	2.053	2.898	11.8	19.3
1 12	8 55.84	+ 5 5.5	1.982	2.895	8.7	19.1
1 22	8 48.60	+ 5 31.3	1.935	2.892	5.6	18.9
2 1	8 40.60	+ 6 10.8	1.917	2.889	4.0	18.8
2 11	8 32.76	+ 7 0.1	1.928	2.886	5.7	18.9
2 21	8 25.97	+ 7 54.4	1.966	2.883	8.9	19.1
3 2	8 20.98	+ 8 49.1	2.030	2.880	12.1	19.3

451480 2011 UX_{66} 1 29.1 11°.61 1°.1/29.6 18

12 23	9 3.95	+12 51.2	1.117	1.947	20.6	20.5
1 2	9 2.19	+13 16.7	1.053	1.950	16.2	20.2
1 12	8 57.05	+14 3.4	1.007	1.954	10.8	20.0
1 22	8 49.31	+15 6.7	0.983	1.960	4.9	19.6
2 1	8 40.32	+16 18.5	0.983	1.967	1.8	19.5
2 11	8 31.87	+17 28.9	1.008	1.976	7.7	19.8
2 21	8 25.48	+18 29.8	1.055	1.986	13.2	20.2
3 2	8 22.26	+19 16.0	1.123	1.998	17.9	20.5

33695 1999 KH_{3} 1 29.1 196°.27 0°.3/29.3 18

12 23	9 6.35	+15 16.3	2.907	3.679	10.7	20.6
1 2	9 1.89	+15 36.2	2.810	3.677	8.3	20.4
1 12	8 55.80	+16 3.3	2.738	3.674	5.5	20.3
1 22	8 48.53	+16 35.2	2.695	3.671	2.4	20.0
2 1	8 40.67	+17 9.0	2.683	3.667	0.9	19.9
2 11	8 32.95	+17 41.8	2.702	3.663	4.1	20.1
2 21	8 26.06	+18 11.1	2.751	3.659	7.1	20.3
3 2	8 20.56	+18 35.0	2.827	3.654	9.7	20.5

79349 1996 XQ_{21} 1 29.1 6°.65 8°.2/23.2 18

12 23	9 12.04	+39 34.4	2.046	2.846	13.6	18.9
1 2	9 7.51	+40 54.4	1.981	2.847	11.3	18.8
1 12	9 0.08	+42 7.1	1.939	2.847	9.2	18.6
1 22	8 50.47	+43 4.0	1.923	2.849	8.2	18.6
2 1	8 39.87	+43 37.7	1.934	2.850	8.9	18.6
2 11	8 29.71	+43 44.7	1.970	2.852	10.7	18.7
2 21	8 21.28	+43 25.8	2.030	2.854	13.0	18.9
3 2	8 15.54	+42 44.9	2.111	2.857	15.3	19.0

351740 2006 DH_{51} 1 29.1 261°.16 0°.2/29.0 18

12 23	9 10.45	+15 42.9	1.607	2.408	16.7	21.5
1 2	9 6.51	+16 12.0	1.515	2.397	13.1	21.3
1 12	8 59.63	+16 54.9	1.444	2.386	8.7	21.0
1 22	8 50.39	+17 47.6	1.398	2.375	3.7	20.7
2 1	8 39.86	+18 43.6	1.380	2.364	1.6	20.5
2 11	8 29.48	+19 36.2	1.390	2.353	6.9	20.8
2 21	8 20.65	+20 20.0	1.426	2.341	11.8	21.0
3 2	8 14.46	+20 51.8	1.485	2.330	16.0	21.3

278870 2008 TX_{57} 1 29.1 137°.35 1°.0/28.4 18

12 23	9 9.17	+19 23.4	2.262	3.052	12.8	21.6
1 2	9 4.49	+19 49.7	2.179	3.057	9.9	21.5
1 12	8 57.70	+20 22.4	2.121	3.062	6.4	21.3
1 22	8 49.38	+20 57.5	2.090	3.067	2.7	21.0
2 1	8 40.35	+21 30.8	2.089	3.071	1.7	21.0
2 11	8 31.60	+21 58.4	2.118	3.076	5.4	21.2
2 21	8 24.02	+22 18.1	2.176	3.080	8.9	21.4
3 2	8 18.35	+22 28.6	2.258	3.084	11.9	21.6

473778 2016 EO_{79} 1 29.1 291°.75 8°.8/23.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.40	+39 0.7	1.849	2.649	14.9	20.7
1 2	9 11.48	+40 13.6	1.760	2.627	12.4	20.5
1 12	9 3.11	+41 20.9	1.693	2.605	10.1	20.3
1 22	8 51.93	+42 12.4	1.651	2.582	8.8	20.1
2 1	8 39.24	+42 38.5	1.635	2.560	9.5	20.1
2 11	8 26.82	+42 34.0	1.646	2.538	11.8	20.2
2 21	8 16.32	+41 59.5	1.679	2.516	14.7	20.4
3 2	8 8.99	+40 59.9	1.733	2.494	17.6	20.5

109264 2001 QJ_{109} 1 29.1 130°.77 4°.1/25.9 18

12 23	9 9.14	+28 44.8	2.432	3.231	11.8	19.8
1 2	9 4.51	+29 44.1	2.356	3.235	9.1	19.6
1 12	8 57.74	+30 44.0	2.305	3.240	6.4	19.5
1 22	8 49.41	+31 38.9	2.282	3.245	4.3	19.3
2 1	8 40.34	+32 23.1	2.288	3.249	4.6	19.4
2 11	8 31.54	+32 52.8	2.325	3.253	7.0	19.5
2 21	8 23.93	+33 6.8	2.388	3.257	9.7	19.7
3 2	8 18.24	+33 5.7	2.475	3.261	12.2	19.9

80106 1999 RV_{26} 1 29.1 113°.83 0°.7/28.7 17

12 23	9 15.84	+17 22.6	1.540	2.337	17.5	20.8
1 2	9 10.40	+17 52.8	1.473	2.354	13.5	20.6
1 12	9 1.93	+18 34.1	1.429	2.371	8.8	20.3
1 22	8 51.24	+19 20.9	1.410	2.387	3.7	20.1
2 1	8 39.61	+20 6.5	1.419	2.402	1.9	20.0
2 11	8 28.57	+20 44.7	1.456	2.417	6.9	20.3
2 21	8 19.45	+21 12.1	1.521	2.431	11.5	20.6
3 2	8 13.19	+21 27.6	1.608	2.445	15.4	20.9

226857 2004 TU_{13} 1 29.1 107°.39 0°.9/29.7 18

12 23	9 8.86	+13 41.8	2.070	2.852	14.1	20.9
1 2	9 4.36	+13 58.6	1.991	2.861	11.0	20.7
1 12	8 57.66	+14 26.2	1.934	2.870	7.4	20.5
1 22	8 49.38	+15 1.8	1.905	2.879	3.4	20.2
2 1	8 40.36	+15 41.4	1.904	2.888	1.3	20.1
2 11	8 31.66	+16 20.6	1.933	2.896	5.2	20.4
2 21	8 24.20	+16 55.8	1.991	2.905	9.0	20.6
3 2	8 18.73	+17 24.4	2.073	2.913	12.3	20.8

285733 2000 SW_{361} 1 29.1 209°.05 3°.2/27.1 18

12 23	9 15.28	+24 55.4	2.161	2.951	13.3	22.1
1 2	9 9.57	+25 43.4	2.067	2.944	10.3	21.9
1 12	9 1.28	+26 35.4	1.997	2.935	7.0	21.7
1 22	8 51.00	+27 25.4	1.955	2.926	3.8	21.4
2 1	8 39.68	+28 7.2	1.943	2.916	3.8	21.4
2 11	8 28.53	+28 35.8	1.962	2.904	7.0	21.6
2 21	8 18.73	+28 49.3	2.008	2.892	10.5	21.8
3 2	8 11.18	+28 48.0	2.079	2.879	13.7	22.0

57590 2001 TJ_{76} 1 29.1 3°.31 0°.6/28.7 18

12 23	9 5.58	+17 51.0	1.911	2.714	14.3	18.7
1 2	9 2.14	+18 16.3	1.829	2.714	11.1	18.5
1 12	8 56.38	+18 50.5	1.770	2.714	7.2	18.2
1 22	8 48.89	+19 29.8	1.738	2.715	3.0	18.0
2 1	8 40.58	+20 9.3	1.733	2.716	1.6	17.9
2 11	8 32.55	+20 44.2	1.757	2.719	5.8	18.2
2 21	8 25.82	+21 11.2	1.808	2.721	9.8	18.4
3 2	8 21.18	+21 28.3	1.883	2.725	13.3	18.6

453704 2010 XY_{42} 1 29.1 88°.58 6°.8/ 3.2 18

12 23	9 9.83	− 3 19.2	1.995	2.705	16.9	21.4
1 2	9 4.97	− 3 35.7	1.929	2.732	14.2	21.2
1 12	8 57.98	− 3 29.8	1.882	2.759	11.2	21.1
1 22	8 49.48	− 3 0.7	1.860	2.785	8.4	21.0
2 1	8 40.37	− 2 10.1	1.864	2.810	6.8	20.9
2 11	8 31.68	− 1 2.6	1.897	2.836	7.5	21.0
2 21	8 24.30	+ 0 15.2	1.957	2.860	9.7	21.2
3 2	8 18.92	+ 1 36.6	2.043	2.884	12.4	21.4

100595 1997 PA_{2} 1 29.1 177°.98 1°.0/28.4 18

12 23	9 8.72	+19 34.3	2.428	3.216	12.1	20.9
1 2	9 4.05	+20 1.8	2.340	3.217	9.3	20.7
1 12	8 57.39	+20 35.1	2.277	3.217	6.1	20.5
1 22	8 49.26	+21 10.8	2.241	3.218	2.6	20.3
2 1	8 40.44	+21 44.7	2.236	3.218	1.7	20.2
2 11	8 31.83	+22 13.2	2.261	3.218	5.1	20.4
2 21	8 24.30	+22 33.9	2.315	3.217	8.5	20.6
3 2	8 18.54	+22 45.7	2.394	3.217	11.4	20.8

494951 2009 PN_{15} 1 29.1 137°.37 1°.0/28.4 18

12 23	9 11.41	+19 36.1	2.201	2.989	13.2	22.1
1 2	9 6.23	+20 0.8	2.122	2.998	10.1	21.9
1 12	8 58.85	+20 31.5	2.067	3.007	6.6	21.7
1 22	8 49.88	+21 4.2	2.040	3.016	2.8	21.4
2 1	8 40.20	+21 34.7	2.042	3.025	1.8	21.4
2 11	8 30.86	+21 59.1	2.075	3.033	5.5	21.6
2 21	8 22.79	+22 15.1	2.137	3.040	9.1	21.9
3 2	8 16.72	+22 22.1	2.223	3.047	12.2	22.1

121027 1999 BS_{27} 1 29.1 68°.08 3°.9/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.27	+ 9 16.8	1.399	2.188	19.3	20.1
1 2	9 7.89	+ 8 49.3	1.329	2.198	15.5	19.9
1 12	9 0.43	+ 8 39.1	1.278	2.207	11.0	19.6
1 22	8 50.67	+ 8 45.7	1.250	2.217	6.3	19.4
2 1	8 39.87	+ 9 6.4	1.248	2.226	4.0	19.3
2 11	8 29.58	+ 9 36.3	1.273	2.236	7.3	19.5
2 21	8 21.17	+10 10.1	1.323	2.246	11.8	19.8
3 2	8 15.61	+10 42.7	1.396	2.256	16.0	20.1

437349 2013 TA_{53} 1 29.1 110°.70 0°.7/28.7 18

12 23	9 10.12	+19 18.4	2.212	3.001	13.1	21.9
1 2	9 5.23	+19 30.8	2.131	3.008	10.1	21.7
1 12	8 58.19	+19 48.9	2.074	3.014	6.6	21.5
1 22	8 49.60	+20 9.3	2.044	3.021	2.8	21.2
2 1	8 40.32	+20 28.3	2.045	3.028	1.5	21.2
2 11	8 31.37	+20 42.6	2.075	3.034	5.3	21.4
2 21	8 23.67	+20 50.3	2.133	3.040	8.9	21.7
3 2	8 17.91	+20 50.6	2.217	3.046	12.0	21.9

214233 2005 EX_{159} 1 29.1 1°.60 0°.7/29.4 18

12 23	9 7.55	+15 5.4	1.311	2.129	18.8	20.2
1 2	9 4.64	+15 14.8	1.237	2.128	14.7	19.9
1 12	8 58.53	+15 38.9	1.182	2.127	9.8	19.6
1 22	8 49.95	+16 14.1	1.150	2.127	4.3	19.3
2 1	8 40.15	+16 54.7	1.144	2.128	1.7	19.1
2 11	8 30.76	+17 33.7	1.163	2.130	7.3	19.5
2 21	8 23.26	+18 6.0	1.207	2.133	12.5	19.8
3 2	8 18.73	+18 28.3	1.272	2.136	17.0	20.1

363845 2005 QN_{66} 1 29.1 100°.48 5°.4/ 2.3 18

12 23	9 9.15	− 0 38.8	2.165	2.884	15.4	21.2
1 2	9 4.33	− 0 38.5	2.093	2.908	12.8	21.1
1 12	8 57.51	− 0 18.4	2.042	2.931	9.8	20.9
1 22	8 49.29	+ 0 21.3	2.016	2.954	7.0	20.8
2 1	8 40.47	+ 1 18.2	2.018	2.976	5.4	20.7
2 11	8 32.00	+ 2 27.6	2.050	2.998	6.3	20.8
2 21	8 24.72	+ 3 43.6	2.111	3.019	8.9	21.0
3 2	8 19.29	+ 5 0.5	2.198	3.040	11.6	21.2

81308 2000 GC_{9} 1 29.1 71°.16 1°.4/28.4 18

12 23	9 13.03	+19 55.3	1.633	2.436	16.4	19.3
1 2	9 8.05	+20 19.7	1.570	2.455	12.5	19.1
1 12	9 0.28	+20 51.5	1.530	2.474	8.1	18.9
1 22	8 50.52	+21 25.5	1.516	2.493	3.5	18.6
2 1	8 39.98	+21 55.8	1.530	2.512	2.3	18.6
2 11	8 30.04	+22 17.7	1.572	2.531	6.7	18.9
2 21	8 21.90	+22 29.0	1.640	2.549	10.9	19.2
3 2	8 16.38	+22 29.4	1.732	2.568	14.5	19.5

171169 2005 GL_{159} 1 29.1 13°.59 8°.1/24.1 18

12 23	9 5.24	+27 41.8	1.114	1.964	19.3	18.9
1 2	9 3.73	+29 54.8	1.061	1.969	15.0	18.6
1 12	8 58.38	+32 14.7	1.029	1.975	10.8	18.4
1 22	8 50.00	+34 25.9	1.019	1.982	8.2	18.3
2 1	8 40.14	+36 12.2	1.034	1.991	9.3	18.4
2 11	8 30.88	+37 22.8	1.072	2.001	13.0	18.6
2 21	8 24.05	+37 55.7	1.130	2.013	17.0	18.9
3 2	8 20.83	+37 54.7	1.207	2.026	20.6	19.2

5979 1992 XF 1 29.1 352°.79 3°.1/30.7 18

12 23	9 8.42	+10 19.2	1.966	2.741	15.0	16.8
1 2	9 4.18	+ 9 46.8	1.877	2.738	12.0	16.6
1 12	8 57.67	+ 9 25.4	1.810	2.736	8.5	16.4
1 22	8 49.44	+ 9 14.8	1.769	2.734	4.9	16.1
2 1	8 40.39	+ 9 13.8	1.756	2.733	3.2	16.0
2 11	8 31.60	+ 9 19.9	1.771	2.732	5.8	16.2
2 21	8 24.06	+ 9 30.3	1.814	2.732	9.5	16.4
3 2	8 18.56	+ 9 41.9	1.882	2.732	12.9	16.6

511753 2015 DS_{145} 1 29.1 290°.75 1°.9/30.2 18

12 23	9 8.73	+12 21.9	2.106	2.883	14.1	21.2
1 2	9 4.31	+12 9.5	2.014	2.879	11.1	21.0
1 12	8 57.71	+12 7.2	1.944	2.875	7.7	20.8
1 22	8 49.46	+12 13.7	1.900	2.871	3.9	20.5
2 1	8 40.40	+12 26.6	1.886	2.867	2.1	20.4
2 11	8 31.56	+12 42.9	1.901	2.863	5.3	20.6
2 21	8 23.89	+12 59.7	1.943	2.860	9.0	20.8
3 2	8 18.16	+13 14.4	2.011	2.856	12.4	21.0

323865 2005 ST_{153} 1 29.1 189°.65 0°.6/28.7 16

12 23	9 11.25	+18 24.8	2.137	2.924	13.6	21.9
1 2	9 6.27	+18 43.5	2.048	2.923	10.5	21.7
1 12	8 59.00	+19 9.4	1.982	2.922	6.9	21.4
1 22	8 50.01	+19 38.8	1.944	2.921	2.9	21.2
2 1	8 40.19	+20 7.5	1.936	2.919	1.5	21.1
2 11	8 30.61	+20 31.7	1.957	2.917	5.5	21.3
2 21	8 22.29	+20 48.6	2.007	2.914	9.4	21.6
3 2	8 16.02	+20 57.0	2.082	2.911	12.7	21.8

315977 2009 CW_{11} 1 29.1 31°.43 0°.2/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.90	+17 27.3	2.182	2.971	13.3	20.2
1 2	9 4.32	+17 24.8	2.099	2.974	10.3	20.0
1 12	8 57.62	+17 28.7	2.038	2.978	6.8	19.8
1 22	8 49.39	+17 36.5	2.005	2.982	2.9	19.6
2 1	8 40.46	+17 45.2	2.002	2.986	1.2	19.5
2 11	8 31.84	+17 52.1	2.028	2.990	5.1	19.7
2 21	8 24.43	+17 55.2	2.082	2.994	8.8	20.0
3 2	8 18.95	+17 53.2	2.161	2.999	11.9	20.2

50265 2000 BN_{28} 1 29.1 353°.37 9°.1/24.8 18

12 23	9 14.38	+33 44.4	1.237	2.068	18.9	18.0
1 2	9 10.82	+35 10.1	1.173	2.065	15.2	17.8
1 12	9 3.07	+36 33.6	1.129	2.063	11.6	17.5
1 22	8 52.02	+37 41.4	1.108	2.062	9.2	17.4
2 1	8 39.36	+38 20.8	1.111	2.061	10.0	17.4
2 11	8 27.39	+38 25.2	1.138	2.060	13.1	17.6
2 21	8 18.08	+37 56.1	1.186	2.060	17.0	17.8
3 2	8 12.72	+37 0.0	1.252	2.061	20.5	18.1

135342 2001 TQ_{27} 1 29.1 54°.84 0°.5/28.9 18

12 23	9 11.18	+18 10.8	1.654	2.457	16.2	19.9
1 2	9 6.65	+18 22.5	1.585	2.469	12.5	19.7
1 12	8 59.40	+18 42.9	1.538	2.482	8.2	19.5
1 22	8 50.19	+19 7.6	1.517	2.494	3.4	19.2
2 1	8 40.15	+19 31.9	1.524	2.507	1.6	19.1
2 11	8 30.61	+19 51.3	1.558	2.520	6.3	19.5
2 21	8 22.76	+20 3.0	1.619	2.534	10.7	19.7
3 2	8 17.44	+20 5.9	1.704	2.547	14.4	20.0

419171 2009 TG_{20} 1 29.1 94°.80 1°.2/29.7 18

12 23	9 12.96	+14 48.2	2.020	2.798	14.6	21.1
1 2	9 7.43	+14 35.9	1.947	2.814	11.3	20.9
1 12	8 59.63	+14 32.0	1.897	2.831	7.6	20.7
1 22	8 50.22	+14 34.5	1.874	2.847	3.5	20.5
2 1	8 40.15	+14 40.6	1.880	2.863	1.5	20.4
2 11	8 30.54	+14 47.5	1.917	2.879	5.3	20.6
2 21	8 22.35	+14 52.9	1.982	2.895	9.1	20.9
3 2	8 16.29	+14 55.3	2.072	2.910	12.4	21.1

694 Ekard 1 29.1 127°.19 6°.4/ 3.2 18 R

12 23	9 9.87	− 4 22.8	2.585	3.268	14.0	14.6
1 2	9 4.60	− 4 53.6	2.505	3.287	11.9	14.5
1 12	8 57.58	− 5 6.8	2.447	3.306	9.7	14.3
1 22	8 49.32	− 5 1.4	2.414	3.324	7.6	14.2
2 1	8 40.51	− 4 37.6	2.409	3.342	6.4	14.2
2 11	8 31.97	− 3 57.9	2.433	3.358	6.9	14.2
2 21	8 24.41	− 3 6.5	2.486	3.374	8.6	14.4
3 2	8 18.45	− 2 8.2	2.565	3.389	10.7	14.5

500053 2011 UU_{123} 1 29.1 181°.39 2°.0/31.1 17

12 23	9 4.68	+ 7 52.5	3.555	4.294	9.5	22.9
1 2	9 0.29	+ 7 58.4	3.455	4.294	7.6	22.8
1 12	8 54.63	+ 8 12.9	3.380	4.295	5.4	22.7
1 22	8 48.05	+ 8 35.2	3.333	4.294	3.2	22.5
2 1	8 41.03	+ 9 3.6	3.318	4.294	2.1	22.4
2 11	8 34.12	+ 9 36.0	3.334	4.293	3.6	22.5
2 21	8 27.84	+10 10.0	3.381	4.291	5.8	22.7
3 2	8 22.65	+10 43.4	3.456	4.289	8.0	22.8

270644 2002 PH_{112} 1 29.1 74°.26 4°.6/ 2.3 18

12 23	9 6.36	− 0 32.5	2.177	2.902	15.2	20.0
1 2	9 2.25	− 0 0.1	2.101	2.922	12.5	19.9
1 12	8 56.21	+ 0 53.6	2.047	2.943	9.5	19.7
1 22	8 48.78	+ 2 7.3	2.018	2.963	6.4	19.6
2 1	8 40.74	+ 3 37.3	2.019	2.983	4.6	19.5
2 11	8 33.00	+ 5 17.3	2.049	3.004	5.8	19.6
2 21	8 26.37	+ 7 0.4	2.109	3.024	8.5	19.8
3 2	8 21.51	+ 8 40.1	2.195	3.044	11.4	20.0

54851 2001 OA_{15} 1 29.1 116°.31 4°.4/26.1 18

12 23	9 11.96	+30 58.4	2.376	3.172	12.1	19.7
1 2	9 6.68	+31 40.9	2.303	3.179	9.5	19.5
1 12	8 59.16	+32 21.4	2.255	3.186	6.7	19.4
1 22	8 50.04	+32 54.5	2.234	3.193	4.7	19.3
2 1	8 40.22	+33 15.1	2.242	3.200	4.9	19.3
2 11	8 30.79	+33 20.4	2.280	3.207	7.2	19.4
2 21	8 22.69	+33 10.1	2.345	3.214	9.9	19.6
3 2	8 16.66	+32 45.9	2.434	3.220	12.4	19.8

376739 1999 TT_{83} 1 29.1 182°.89 2°.6/27.0 15

12 23	9 11.38	+25 45.4	2.840	3.624	10.6	23.0
1 2	9 5.87	+26 24.1	2.751	3.625	8.2	22.9
1 12	8 58.50	+27 4.3	2.688	3.625	5.5	22.7
1 22	8 49.75	+27 41.9	2.655	3.624	3.1	22.5
2 1	8 40.34	+28 12.7	2.652	3.623	3.1	22.5
2 11	8 31.14	+28 33.7	2.681	3.621	5.5	22.7
2 21	8 22.94	+28 43.6	2.739	3.619	8.2	22.9
3 2	8 16.40	+28 42.4	2.822	3.615	10.7	23.0

495915 2005 UW_{225} 1 29.1 324°.21 5°.4/31.9 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.65	+ 4 24.6	1.778	2.539	16.9	21.1
1 2	9 3.90	+ 3 49.5	1.687	2.533	13.9	20.8
1 12	8 57.67	+ 3 31.4	1.617	2.528	10.5	20.6
1 22	8 49.53	+ 3 31.7	1.570	2.523	7.1	20.4
2 1	8 40.41	+ 3 49.7	1.550	2.518	5.4	20.3
2 11	8 31.47	+ 4 22.3	1.558	2.513	7.2	20.4
2 21	8 23.84	+ 5 4.5	1.592	2.509	10.6	20.6
3 2	8 18.41	+ 5 50.8	1.649	2.504	14.2	20.8

409973 2006 VF_{69} 1 29.1 122°.78 3°.5/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.14	+ 7 15.2	2.092	2.846	14.9	21.6
1 2	9 6.00	+ 7 2.3	2.014	2.860	12.0	21.4
1 12	8 58.71	+ 7 3.4	1.957	2.874	8.6	21.2
1 22	8 49.86	+ 7 17.6	1.927	2.888	5.2	21.1
2 1	8 40.32	+ 7 42.9	1.926	2.901	3.5	21.0
2 11	8 31.12	+ 8 15.8	1.955	2.913	5.6	21.1
2 21	8 23.17	+ 8 52.0	2.012	2.925	9.0	21.4
3 2	8 17.21	+ 9 28.0	2.095	2.937	12.1	21.6

433571 2013 YC_{23} 1 29.1 110°.75 2°.2/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.14	+22 55.4	2.420	3.213	12.0	21.5
1 2	9 4.36	+23 38.9	2.346	3.226	9.2	21.3
1 12	8 57.58	+24 26.3	2.297	3.238	6.0	21.1
1 22	8 49.37	+25 12.9	2.277	3.251	3.0	21.0
2 1	8 40.52	+25 53.9	2.287	3.263	2.8	21.0
2 11	8 31.99	+26 25.8	2.326	3.275	5.7	21.2
2 21	8 24.60	+26 46.4	2.395	3.287	8.7	21.4
3 2	8 19.04	+26 55.5	2.488	3.298	11.4	21.6

142937 2002 VC_{68} 1 29.1 351°.84 3°.8/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.16	+10 12.9	1.445	2.242	18.4	19.4
1 2	9 4.82	+ 9 37.5	1.363	2.237	14.8	19.1
1 12	8 58.53	+ 9 17.1	1.301	2.233	10.5	18.9
1 22	8 49.97	+ 9 11.6	1.262	2.230	6.1	18.6
2 1	8 40.25	+ 9 19.6	1.249	2.227	3.9	18.5
2 11	8 30.86	+ 9 37.1	1.262	2.226	7.2	18.7
2 21	8 23.14	+ 9 59.7	1.300	2.225	11.8	18.9
3 2	8 18.11	+10 22.8	1.360	2.225	16.0	19.2

165843 2001 RB_{154} 1 29.1 127°.51 3°.9/31.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.51	+ 4 38.0	2.463	3.205	13.2	20.1
1 2	9 2.23	+ 4 23.4	2.374	3.210	10.8	19.9
1 12	8 56.16	+ 4 22.4	2.308	3.215	8.0	19.7
1 22	8 48.78	+ 4 34.7	2.268	3.220	5.3	19.6
2 1	8 40.78	+ 4 59.0	2.256	3.224	3.9	19.5
2 11	8 32.98	+ 5 32.5	2.275	3.229	5.3	19.6
2 21	8 26.14	+ 6 11.5	2.322	3.233	8.0	19.7
3 2	8 20.89	+ 6 52.3	2.395	3.238	10.7	19.9

466476 2013 TR_{141} 1 29.1 146°.14 0°.2/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.27	+15 34.1	2.198	2.982	13.3	21.9
1 2	9 3.89	+15 58.9	2.112	2.985	10.3	21.7
1 12	8 57.40	+16 33.2	2.050	2.989	6.8	21.4
1 22	8 49.35	+17 13.7	2.016	2.992	2.9	21.2
2 1	8 40.56	+17 56.2	2.011	2.995	1.1	21.1
2 11	8 32.01	+18 36.4	2.036	2.997	5.1	21.4
2 21	8 24.60	+19 10.8	2.089	3.000	8.8	21.6
3 2	8 19.08	+19 37.4	2.167	3.002	12.0	21.8

443815 1999 TH_{84} 1 29.1 141°.25 4°.0/26.9 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.91	+25 53.8	1.793	2.588	15.4	22.7
1 2	9 12.62	+26 48.7	1.724	2.603	11.9	22.5
1 12	9 3.37	+27 46.6	1.678	2.617	8.0	22.3
1 22	8 51.93	+28 39.6	1.660	2.630	4.6	22.1
2 1	8 39.54	+29 20.3	1.671	2.641	4.6	22.1
2 11	8 27.70	+29 43.7	1.711	2.652	8.0	22.3
2 21	8 17.71	+29 49.0	1.778	2.662	11.7	22.6
3 2	8 10.50	+29 37.9	1.868	2.671	14.9	22.8

2461 Clavel 1 29.1 125°.63 0°.2/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.23	+16 56.5	2.732	3.510	11.2	17.3
1 2	9 2.62	+17 22.2	2.651	3.522	8.6	17.1
1 12	8 56.33	+17 54.4	2.595	3.533	5.6	17.0
1 22	8 48.84	+18 30.2	2.567	3.544	2.3	16.8
2 1	8 40.81	+19 6.3	2.571	3.554	1.0	16.7
2 11	8 33.02	+19 39.4	2.605	3.564	4.3	16.9
2 21	8 26.16	+20 7.2	2.668	3.574	7.4	17.1
3 2	8 20.82	+20 28.1	2.758	3.584	10.0	17.3

413052 2001 QM_{330} 1 29.1 105°.98 2°.9/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.42	+26 15.6	2.142	2.930	13.5	21.6
1 2	9 10.79	+26 37.7	2.078	2.953	10.4	21.4
1 12	9 1.78	+27 0.0	2.039	2.976	6.9	21.2
1 22	8 51.14	+27 17.5	2.027	2.998	3.7	21.1
2 1	8 39.91	+27 25.6	2.046	3.019	3.4	21.1
2 11	8 29.28	+27 21.9	2.095	3.040	6.4	21.3
2 21	8 20.25	+27 6.4	2.172	3.060	9.7	21.5
3 2	8 13.52	+26 40.7	2.274	3.080	12.5	21.8

80970 2000 DS_{112} 1 29.1 26°.75 3°.1/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.48	+22 13.3	1.462	2.283	17.1	19.3
1 2	9 5.93	+23 5.5	1.394	2.288	13.1	19.1
1 12	8 59.28	+24 6.0	1.347	2.294	8.6	18.8
1 22	8 50.29	+25 7.2	1.325	2.301	4.3	18.6
2 1	8 40.22	+26 0.7	1.330	2.308	3.9	18.6
2 11	8 30.62	+26 39.8	1.362	2.315	8.2	18.9
2 21	8 22.90	+27 1.2	1.418	2.323	12.6	19.1
3 2	8 18.05	+27 5.2	1.496	2.332	16.4	19.4

382998 2005 JL_{19} 1 29.1 257°.66 5°.2/24.7 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.51	+31 38.3	2.446	3.245	11.7	21.2
1 2	9 5.08	+32 53.6	2.357	3.233	9.3	21.0
1 12	8 58.35	+34 9.3	2.293	3.222	6.8	20.9
1 22	8 49.84	+35 18.5	2.257	3.209	5.3	20.7
2 1	8 40.38	+36 14.8	2.250	3.197	5.8	20.7
2 11	8 31.02	+36 53.6	2.272	3.185	8.0	20.9
2 21	8 22.81	+37 13.2	2.321	3.172	10.6	21.0
3 2	8 16.58	+37 14.3	2.392	3.159	13.1	21.2

97857 2000 QJ_{20} 1 29.1 177°.95 0°.6/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.34	+18 20.8	1.925	2.712	14.8	20.7
1 2	9 8.91	+18 39.2	1.839	2.714	11.5	20.5
1 12	9 0.89	+19 5.6	1.776	2.716	7.6	20.3
1 22	8 50.91	+19 35.8	1.740	2.716	3.2	20.0
2 1	8 39.98	+20 5.0	1.733	2.716	1.6	19.9
2 11	8 29.36	+20 28.9	1.757	2.716	6.0	20.2
2 21	8 20.21	+20 44.6	1.808	2.715	10.2	20.4
3 2	8 13.40	+20 51.3	1.884	2.713	13.8	20.6

166664 2002 TH_{49} 1 29.1 102°.61 4°.8/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.69	+31 38.6	2.355	3.152	12.2	20.1
1 2	9 6.54	+32 32.2	2.288	3.163	9.5	19.9
1 12	8 59.13	+33 23.8	2.245	3.174	6.9	19.8
1 22	8 50.10	+34 7.2	2.229	3.185	5.0	19.7
2 1	8 40.36	+34 37.1	2.243	3.196	5.3	19.7
2 11	8 31.02	+34 50.5	2.285	3.207	7.5	19.9
2 21	8 23.03	+34 46.8	2.355	3.217	10.1	20.0
3 2	8 17.13	+34 28.0	2.448	3.227	12.5	20.2

262440 2006 US_{90} 1 29.1 160°.95 0°.2/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.81	+15 52.0	2.300	3.075	13.1	22.0
1 2	9 6.49	+16 11.6	2.214	3.082	10.1	21.8
1 12	8 59.05	+16 39.5	2.152	3.088	6.7	21.6
1 22	8 50.07	+17 12.6	2.118	3.094	2.9	21.4
2 1	8 40.36	+17 47.2	2.115	3.099	1.1	21.2
2 11	8 30.92	+18 19.3	2.143	3.103	5.0	21.5
2 21	8 22.65	+18 46.0	2.199	3.107	8.6	21.8
3 2	8 16.27	+19 5.7	2.282	3.110	11.7	22.0

76382 2000 EM_{198} 1 29.1 62°.95 0°.3/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.18	+18 56.1	2.046	2.836	13.9	18.4
1 2	9 6.18	+18 54.3	1.969	2.846	10.8	18.2
1 12	8 58.91	+18 58.1	1.915	2.856	7.0	18.0
1 22	8 50.01	+19 4.5	1.889	2.866	3.0	17.8
2 1	8 40.42	+19 10.3	1.892	2.876	1.3	17.7
2 11	8 31.23	+19 12.6	1.925	2.886	5.4	18.0
2 21	8 23.42	+19 9.7	1.985	2.896	9.2	18.2
3 2	8 17.71	+19 1.0	2.071	2.906	12.5	18.4

41692 2000 UC_{27} 1 29.1 286°.77 2°.7/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.48	+ 9 21.5	1.587	2.374	17.5	19.2
1 2	9 4.93	+ 9 32.3	1.498	2.368	14.0	18.9
1 12	8 58.59	+10 1.7	1.430	2.362	9.8	18.7
1 22	8 50.06	+10 47.9	1.386	2.356	5.3	18.4
2 1	8 40.35	+11 46.7	1.369	2.350	2.8	18.2
2 11	8 30.82	+12 51.4	1.379	2.344	6.5	18.4
2 21	8 22.78	+13 55.2	1.416	2.338	11.2	18.7
3 2	8 17.26	+14 52.5	1.476	2.333	15.4	18.9

238940 2006 BC_{17} 1 29.1 262°.30 1°.1/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.91	+16 42.5	1.550	2.356	17.0	20.4
1 2	9 6.25	+17 35.8	1.463	2.350	13.2	20.2
1 12	8 59.58	+18 44.4	1.399	2.343	8.7	19.9
1 22	8 50.52	+20 2.3	1.359	2.337	3.7	19.6
2 1	8 40.15	+21 21.3	1.347	2.330	2.2	19.4
2 11	8 29.98	+22 32.9	1.363	2.323	7.3	19.7
2 21	8 21.41	+23 30.8	1.405	2.317	12.2	20.0
3 2	8 15.57	+24 12.2	1.469	2.310	16.4	20.2

319805 2006 VZ_{47} 1 29.1 45°.37 0°.2/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.56	+16 16.9	1.493	2.300	17.5	21.0
1 2	9 6.45	+16 28.0	1.427	2.312	13.5	20.8
1 12	8 59.44	+16 50.6	1.383	2.326	8.9	20.5
1 22	8 50.32	+17 20.6	1.362	2.339	3.8	20.3
2 1	8 40.30	+17 52.7	1.369	2.353	1.5	20.1
2 11	8 30.83	+18 21.4	1.403	2.368	6.6	20.5
2 21	8 23.16	+18 43.1	1.463	2.382	11.2	20.8
3 2	8 18.18	+18 55.9	1.546	2.397	15.1	21.1

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
396805 2004 PM_{54}			1 29.1 137°.44		0°.3/28.9 18	
	h m	° ′			°	m
12 23	9 16.46	+17 54.8	1.876	2.659	15.3	22.2
1 2	9 10.44	+18 4.3	1.800	2.673	11.8	22.0
1 12	9 1.80	+18 21.5	1.747	2.686	7.8	21.8
1 22	8 51.27	+18 42.4	1.721	2.698	3.3	21.6
2 1	8 39.92	+19 2.6	1.725	2.709	1.4	21.4
2 11	8 29.04	+19 18.3	1.759	2.720	5.9	21.8
2 21	8 19.76	+19 27.2	1.821	2.729	10.1	22.0
3 2	8 12.92	+19 28.5	1.908	2.738	13.6	22.3
426591 2013 SC_{31}			1 29.1 216°.26		3°.7/31.9 18	
12 23	9 7.66	+ 4 2.2	2.289	3.030	14.1	21.9
1 2	9 3.42	+ 4 18.2	2.187	3.024	11.5	21.7
1 12	8 57.15	+ 4 51.4	2.107	3.016	8.5	21.5
1 22	8 49.33	+ 5 41.1	2.052	3.008	5.4	21.3
2 1	8 40.67	+ 6 44.6	2.028	3.000	3.7	21.2
2 11	8 32.10	+ 7 57.4	2.033	2.991	5.5	21.3
2 21	8 24.50	+ 9 13.8	2.067	2.982	8.7	21.4
3 2	8 18.63	+10 28.6	2.128	2.972	11.9	21.6
113614 2002 TN_{55}			1 29.1 351°.43		5°.3/25.7 18	
12 23	9 12.35	+32 33.6	2.165	2.966	13.0	19.6
1 2	9 7.35	+33 20.1	2.088	2.965	10.3	19.4
1 12	8 59.84	+34 3.9	2.035	2.965	7.5	19.2
1 22	8 50.46	+34 38.5	2.009	2.964	5.5	19.1
2 1	8 40.24	+34 58.1	2.011	2.964	5.9	19.1
2 11	8 30.41	+34 59.5	2.041	2.964	8.2	19.3
2 21	8 22.05	+34 42.5	2.098	2.964	11.0	19.5
3 2	8 16.00	+34 9.6	2.178	2.964	13.7	19.6
313826 2004 CT_{4}			1 29.1 262°.64		4°.5/27.2 18	
12 23	9 17.76	+29 29.4	1.806	2.606	15.1	20.3
1 2	9 12.00	+29 48.5	1.717	2.597	11.9	20.1
1 12	9 3.15	+30 5.9	1.652	2.588	8.3	19.8
1 22	8 51.95	+30 15.0	1.612	2.579	5.1	19.6
2 1	8 39.63	+30 9.7	1.601	2.570	5.0	19.6
2 11	8 27.73	+29 46.7	1.619	2.561	8.3	19.8
2 21	8 17.65	+29 6.9	1.663	2.552	12.1	20.0
3 2	8 10.41	+28 13.3	1.731	2.542	15.6	20.2
412619 2014 OM_{103}			1 29.1 285°.91		3°.4/31.1 17	
12 23	9 7.63	+ 6 51.5	1.564	2.344	18.0	21.6
1 2	9 4.54	+ 7 9.0	1.459	2.323	14.6	21.3
1 12	8 58.56	+ 7 49.5	1.374	2.302	10.6	21.0
1 22	8 50.16	+ 8 52.4	1.313	2.280	6.1	20.7
2 1	8 40.29	+10 13.8	1.279	2.259	3.5	20.4
2 11	8 30.33	+11 46.0	1.272	2.237	7.0	20.6
2 21	8 21.72	+13 20.2	1.291	2.215	11.9	20.8
3 2	8 15.66	+14 48.2	1.334	2.194	16.5	21.0
121388 1999 TJ_{117}			1 29.1 159°.45		1°.2/29.9 18	
12 23	9 9.07	+13 12.8	2.257	3.031	13.3	20.0
1 2	9 4.44	+13 21.3	2.169	3.034	10.4	19.9
1 12	8 57.75	+13 39.8	2.104	3.037	7.0	19.6
1 22	8 49.55	+14 6.0	2.067	3.040	3.4	19.4
2 1	8 40.63	+14 36.8	2.060	3.043	1.4	19.3
2 11	8 31.94	+15 8.4	2.083	3.045	4.9	19.5
2 21	8 24.37	+15 37.7	2.134	3.047	8.5	19.8
3 2	8 18.63	+16 2.2	2.211	3.049	11.7	20.0
2234 Schmadel			1 29.1 209°.46		9°.6/21.9 18	
12 23	9 25.47	+49 2.9	2.457	3.208	13.0	17.4
1 2	9 17.91	+50 13.8	2.386	3.202	11.4	17.3
1 12	9 6.99	+51 12.0	2.339	3.196	10.1	17.2
1 22	8 53.56	+51 48.2	2.317	3.189	9.6	17.2
2 1	8 39.01	+51 55.8	2.321	3.181	10.2	17.2
2 11	8 25.09	+51 32.5	2.351	3.173	11.5	17.3
2 21	8 13.29	+50 40.9	2.404	3.164	13.2	17.4
3 2	8 4.64	+49 26.8	2.479	3.155	14.9	17.5
224815 2006 VN_{37}			1 29.1 110°.93		2°.1/28.2 17	
12 23	9 17.71	+20 50.4	1.456	2.260	17.9	20.8
1 2	9 12.12	+21 23.1	1.392	2.277	13.8	20.6
1 12	9 3.25	+22 3.8	1.349	2.293	9.0	20.4
1 22	8 51.97	+22 45.7	1.332	2.308	4.0	20.1
2 1	8 39.68	+23 21.3	1.342	2.323	2.9	20.1
2 11	8 28.08	+23 45.1	1.380	2.337	7.7	20.4
2 21	8 18.60	+23 54.9	1.444	2.351	12.3	20.7
3 2	8 12.22	+23 51.3	1.530	2.364	16.2	21.0
135093 2001 QG_{66}			1 29.1 153°.12		0°.9/28.6 18	
12 23	9 9.99	+20 21.8	2.625	3.407	11.4	20.1
1 2	9 4.85	+20 32.3	2.539	3.412	8.8	19.9
1 12	8 57.87	+20 46.8	2.477	3.417	5.7	19.7
1 22	8 49.56	+21 2.2	2.445	3.421	2.4	19.5
2 1	8 40.66	+21 15.7	2.443	3.425	1.5	19.4
2 11	8 32.02	+21 24.4	2.472	3.429	4.7	19.6
2 21	8 24.41	+21 27.1	2.530	3.433	7.9	19.9
3 2	8 18.48	+21 23.1	2.614	3.436	10.6	20.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
456487 2006 WT_{132}			1 29.1 128°.97		0°.8/29.6 18	
	h m	° ′			°	m
12 23	9 10.50	+14 27.4	1.874	2.661	15.2	22.1
1 2	9 5.96	+14 40.4	1.792	2.666	11.9	21.9
1 12	8 58.95	+15 4.7	1.733	2.670	7.9	21.7
1 22	8 50.12	+15 37.1	1.700	2.675	3.6	21.4
2 1	8 40.42	+16 13.4	1.696	2.679	1.4	21.3
2 11	8 31.03	+16 48.9	1.720	2.684	5.7	21.6
2 21	8 23.04	+17 19.6	1.773	2.688	9.8	21.8
3 2	8 17.27	+17 43.3	1.849	2.692	13.4	22.1
330483 2007 GY_{24}			1 29.1 196°.06		1°.9/27.8 17	
12 23	9 11.57	+23 8.8	2.552	3.337	11.6	21.6
1 2	9 6.25	+23 35.7	2.459	3.334	9.0	21.4
1 12	8 58.90	+24 5.7	2.392	3.331	5.9	21.2
1 22	8 50.04	+24 34.9	2.353	3.327	2.8	21.0
2 1	8 40.46	+24 59.2	2.345	3.323	2.5	20.9
2 11	8 31.09	+25 15.4	2.368	3.318	5.4	21.1
2 21	8 22.79	+25 22.0	2.420	3.313	8.6	21.3
3 2	8 16.30	+25 18.8	2.497	3.307	11.4	21.5
345179 2005 TG_{78}			1 29.1 162°.56		2°.1/30.9 17	
12 23	9 5.89	+ 9 9.2	3.023	3.773	10.8	21.3
1 2	9 1.46	+ 9 6.2	2.930	3.777	8.6	21.1
1 12	8 55.55	+ 9 12.3	2.861	3.780	6.1	20.9
1 22	8 48.56	+ 9 26.5	2.820	3.784	3.5	20.8
2 1	8 41.08	+ 9 47.1	2.809	3.786	2.2	20.7
2 11	8 33.75	+10 11.9	2.829	3.789	4.0	20.8
2 21	8 27.20	+10 38.3	2.879	3.791	6.6	21.0
3 2	8 21.94	+11 4.1	2.957	3.793	9.1	21.2
416841 2005 LZ_{8}			1 29.1 117°.79		2°.7/27.2 18	
12 23	9 11.71	+21 29.0	1.994	2.790	14.1	21.6
1 2	9 6.83	+22 43.8	1.924	2.805	10.8	21.4
1 12	8 59.50	+24 5.9	1.878	2.820	7.0	21.2
1 22	8 50.35	+25 28.4	1.860	2.834	3.5	21.0
2 1	8 40.35	+26 44.0	1.873	2.848	3.4	21.1
2 11	8 30.70	+27 46.5	1.915	2.861	6.8	21.3
2 21	8 22.46	+28 32.5	1.984	2.874	10.4	21.5
3 2	8 16.46	+29 1.7	2.078	2.886	13.4	21.8
229614 2006 DF_{59}			1 29.1 52°.27		0°.7/29.6 18	
12 23	9 8.27	+14 37.1	1.957	2.745	14.6	20.8
1 2	9 4.14	+14 50.8	1.876	2.751	11.3	20.6
1 12	8 57.71	+15 15.2	1.818	2.756	7.6	20.3
1 22	8 49.58	+15 47.2	1.786	2.761	3.4	20.1
2 1	8 40.67	+16 22.9	1.783	2.767	1.3	19.9
2 11	8 32.05	+16 57.7	1.809	2.772	5.4	20.2
2 21	8 24.73	+17 28.1	1.862	2.778	9.4	20.5
3 2	8 19.49	+17 51.5	1.940	2.784	12.8	20.7
420363 2012 BK_{99}			1 29.1 210°.76		1°.1/28.5 18	
12 23	9 13.10	+20 9.7	2.271	3.054	13.0	21.8
1 2	9 7.69	+20 28.9	2.174	3.048	10.0	21.6
1 12	9 0.00	+20 53.6	2.101	3.040	6.6	21.3
1 22	8 50.57	+21 20.1	2.056	3.032	2.8	21.1
2 1	8 40.26	+21 44.2	2.041	3.023	1.8	21.0
2 11	8 30.14	+22 2.2	2.057	3.014	5.6	21.2
2 21	8 21.20	+22 11.9	2.102	3.004	9.3	21.4
3 2	8 14.27	+22 12.8	2.173	2.993	12.5	21.6
263481 2008 EF_{80}			1 29.1 203°.79		0°.1/29.1 18	
12 23	9 9.66	+15 36.9	2.098	2.882	13.9	21.3
1 2	9 5.19	+16 9.4	2.006	2.879	10.8	21.1
1 12	8 58.43	+16 52.6	1.937	2.876	7.1	20.9
1 22	8 49.92	+17 42.8	1.896	2.872	3.0	20.6
2 1	8 40.52	+18 35.2	1.884	2.868	1.3	20.4
2 11	8 31.29	+19 24.5	1.902	2.863	5.5	20.7
2 21	8 23.25	+20 6.9	1.949	2.858	9.4	21.0
3 2	8 17.22	+20 39.8	2.020	2.853	12.8	21.2
227996 2007 JM_{38}			1 29.1 7°.42		2°.4/30.6 18	
12 23	9 7.18	+10 16.9	1.787	2.571	15.9	21.1
1 2	9 3.53	+10 18.4	1.703	2.571	12.7	20.9
1 12	8 57.44	+10 34.7	1.641	2.572	8.8	20.6
1 22	8 49.52	+11 4.2	1.603	2.573	4.7	20.4
2 1	8 40.69	+11 43.4	1.593	2.574	2.5	20.2
2 11	8 32.13	+12 27.4	1.611	2.576	5.9	20.5
2 21	8 24.91	+13 11.4	1.656	2.578	10.0	20.7
3 2	8 19.88	+13 51.1	1.726	2.580	13.7	20.9
396885 2004 TL_{276}			1 29.1 153°.24		1°.4/28.3 18	
12 23	9 14.39	+19 32.0	1.951	2.740	14.6	22.4
1 2	9 8.90	+20 8.6	1.872	2.749	11.3	22.2
1 12	9 0.87	+20 52.8	1.817	2.757	7.4	21.9
1 22	8 50.94	+21 39.6	1.789	2.765	3.2	21.7
2 1	8 40.13	+22 23.2	1.790	2.772	2.2	21.6
2 11	8 29.68	+22 58.7	1.822	2.778	6.2	21.9
2 21	8 20.70	+23 23.2	1.881	2.783	10.2	22.1
3 2	8 14.05	+23 36.0	1.965	2.788	13.6	22.4

273725 2007 ED_{92} 1 29.1 171°.14 0°.1/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.93	+17 19.8	2.033	2.821	14.1	21.2
1 2	9 6.15	+17 29.5	1.946	2.822	11.0	21.0
1 12	8 59.02	+17 47.0	1.883	2.823	7.2	20.8
1 22	8 50.15	+18 9.1	1.847	2.824	3.1	20.5
2 1	8 40.45	+18 32.0	1.840	2.824	1.3	20.4
2 11	8 31.03	+18 51.8	1.863	2.825	5.5	20.7
2 21	8 22.92	+19 5.8	1.914	2.825	9.5	20.9
3 2	8 16.92	+19 12.8	1.989	2.825	12.9	21.1

10693 Zangari 1 29.1 145°.33 0°.6/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.70	+18 16.1	2.002	2.793	14.2	19.1
1 2	9 6.01	+18 36.4	1.919	2.797	11.0	18.9
1 12	8 58.95	+19 4.6	1.859	2.800	7.2	18.7
1 22	8 50.13	+19 36.7	1.826	2.803	3.0	18.5
2 1	8 40.47	+20 8.2	1.823	2.806	1.5	18.3
2 11	8 31.11	+20 34.8	1.848	2.809	5.7	18.6
2 21	8 23.10	+20 53.8	1.902	2.811	9.6	18.9
3 2	8 17.23	+21 3.8	1.980	2.813	13.1	19.1

192197 2007 HR_{4} 1 29.1 210°.94 1°.4/30.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.98	+11 37.6	2.379	3.148	12.9	21.0
1 2	9 3.59	+11 54.5	2.282	3.143	10.2	20.8
1 12	8 57.23	+12 22.6	2.208	3.138	7.0	20.6
1 22	8 49.38	+13 0.0	2.161	3.132	3.4	20.4
2 1	8 40.77	+13 43.3	2.144	3.126	1.6	20.2
2 11	8 32.29	+14 28.6	2.157	3.120	4.8	20.4
2 21	8 24.79	+15 12.1	2.200	3.114	8.3	20.7
3 2	8 19.00	+15 50.7	2.268	3.107	11.4	20.8

467245 2016 EA_{171} 1 29.1 170°.61 1°.1/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.22	+12 42.7	2.283	3.057	13.2	21.5
1 2	9 3.80	+13 1.0	2.194	3.059	10.3	21.3
1 12	8 57.37	+13 30.1	2.128	3.061	7.0	21.1
1 22	8 49.43	+14 7.7	2.089	3.062	3.3	20.9
2 1	8 40.75	+14 50.1	2.080	3.063	1.4	20.7
2 11	8 32.28	+15 33.2	2.101	3.064	4.9	21.0
2 21	8 24.88	+16 13.4	2.151	3.064	8.4	21.2
3 2	8 19.27	+16 47.8	2.226	3.065	11.6	21.4

171679 2000 QN_{226} 1 29.1 128°.18 4°.3/ 1.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.25	+ 1 11.2	2.674	3.396	12.7	20.6
1 2	9 1.16	+ 1 9.4	2.585	3.404	10.5	20.5
1 12	8 55.45	+ 1 22.7	2.519	3.412	8.0	20.3
1 22	8 48.56	+ 1 51.0	2.478	3.420	5.6	20.2
2 1	8 41.11	+ 2 32.7	2.467	3.427	4.3	20.1
2 11	8 33.85	+ 3 24.6	2.485	3.434	5.3	20.2
2 21	8 27.44	+ 4 22.7	2.532	3.441	7.6	20.3
3 2	8 22.46	+ 5 22.7	2.606	3.448	10.0	20.5

175779 1999 CU_{140} 1 29.1 68°.01 2°.1/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.82	+20 14.9	1.642	2.449	16.1	20.0
1 2	9 6.58	+21 2.7	1.573	2.461	12.4	19.8
1 12	8 59.53	+21 59.3	1.528	2.472	8.1	19.6
1 22	8 50.42	+22 58.4	1.507	2.484	3.6	19.3
2 1	8 40.38	+23 52.6	1.515	2.496	2.9	19.3
2 11	8 30.80	+24 35.9	1.551	2.508	7.1	19.6
2 21	8 22.91	+25 4.9	1.614	2.519	11.3	19.8
3 2	8 17.59	+25 19.0	1.699	2.531	14.9	20.1

165429 2000 YW_{66} 1 29.1 98°.56 1°.5/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.37	+19 25.3	1.704	2.501	16.0	21.0
1 2	9 9.08	+20 2.3	1.640	2.521	12.3	20.8
1 12	9 1.03	+20 47.6	1.598	2.541	8.0	20.6
1 22	8 51.00	+21 35.4	1.583	2.560	3.4	20.4
2 1	8 40.17	+22 19.3	1.597	2.578	2.3	20.3
2 11	8 29.89	+22 54.0	1.639	2.597	6.6	20.6
2 21	8 21.34	+23 16.7	1.708	2.614	10.8	20.9
3 2	8 15.37	+23 27.1	1.801	2.632	14.3	21.2

131931 2002 CQ_{8} 1 29.1 341°.36 1°.4/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.88	+14 2.5	1.220	2.042	19.7	20.1
1 2	9 4.52	+14 0.4	1.140	2.032	15.6	19.8
1 12	8 58.77	+14 14.5	1.079	2.023	10.6	19.5
1 22	8 50.30	+14 42.4	1.039	2.015	5.0	19.1
2 1	8 40.39	+15 18.9	1.025	2.009	2.0	18.9
2 11	8 30.76	+15 57.2	1.035	2.003	7.6	19.2
2 21	8 23.06	+16 31.2	1.068	1.998	13.2	19.5
3 2	8 18.51	+16 56.6	1.122	1.994	18.1	19.8

428879 2008 UL_{290} 1 29.1 81°.49 3°.1/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.02	+24 6.7	2.153	2.954	13.0	21.4
1 2	9 4.62	+25 7.3	2.082	2.966	10.0	21.2
1 12	8 57.98	+26 12.0	2.036	2.978	6.6	21.0
1 22	8 49.71	+27 15.0	2.018	2.990	3.6	20.8
2 1	8 40.68	+28 10.2	2.029	3.001	3.7	20.9
2 11	8 31.99	+28 52.7	2.069	3.013	6.6	21.1
2 21	8 24.58	+29 20.4	2.137	3.025	9.8	21.3
3 2	8 19.21	+29 33.2	2.229	3.036	12.7	21.5

106839 2000 YJ_{10} 1 29.1 39°.20 0°.5/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.31	+16 3.2	1.279	2.094	19.3	19.1
1 2	9 7.46	+16 5.8	1.218	2.108	15.0	18.9
1 12	9 0.33	+16 21.3	1.177	2.121	9.9	18.6
1 22	8 50.80	+16 45.7	1.159	2.136	4.3	18.4
2 1	8 40.27	+17 13.3	1.167	2.151	1.6	18.2
2 11	8 30.41	+17 38.2	1.201	2.167	7.2	18.6
2 21	8 22.66	+17 56.5	1.260	2.184	12.2	18.9
3 2	8 17.95	+18 6.0	1.340	2.200	16.5	19.2

418894 2008 YT_{171} 1 29.1 71°.53 1°.5/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.15	+19 49.1	2.176	2.971	13.1	21.1
1 2	9 3.82	+20 33.7	2.106	2.987	10.0	20.9
1 12	8 57.37	+21 25.0	2.060	3.002	6.5	20.8
1 22	8 49.42	+22 18.3	2.042	3.018	2.8	20.5
2 1	8 40.81	+23 8.3	2.053	3.034	2.2	20.5
2 11	8 32.54	+23 50.6	2.094	3.050	5.6	20.8
2 21	8 25.50	+24 22.4	2.163	3.065	9.0	21.0
3 2	8 20.38	+24 42.6	2.257	3.081	12.0	21.2

474007 2016 FB_{42} 1 29.1 335°.92 2°.8/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.97	+23 19.4	1.920	2.725	14.2	20.9
1 2	9 5.70	+24 3.4	1.839	2.724	11.0	20.7
1 12	8 58.89	+24 52.8	1.780	2.724	7.3	20.5
1 22	8 50.16	+25 41.8	1.749	2.723	3.7	20.2
2 1	8 40.49	+26 24.1	1.746	2.722	3.5	20.2
2 11	8 31.11	+26 54.7	1.772	2.722	7.0	20.4
2 21	8 23.16	+27 11.2	1.824	2.721	10.7	20.7
3 2	8 17.50	+27 13.5	1.900	2.721	14.0	20.9

101552 1999 AP_{1} 1 29.1 6°.25 5°.3/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.52	+27 49.4	1.678	2.499	15.2	19.2
1 2	9 4.28	+29 4.4	1.607	2.500	11.8	18.9
1 12	8 58.19	+30 22.5	1.560	2.501	8.2	18.7
1 22	8 49.92	+31 35.3	1.538	2.503	5.6	18.6
2 1	8 40.59	+32 34.1	1.543	2.506	6.0	18.6
2 11	8 31.63	+33 12.8	1.575	2.510	9.1	18.8
2 21	8 24.33	+33 29.3	1.631	2.514	12.6	19.0
3 2	8 19.65	+33 25.1	1.709	2.519	15.8	19.2

72229 2001 AK_{15} 1 29.1 27°.71 4°.5/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.84	+10 19.9	1.468	2.254	18.7	18.8
1 2	9 9.09	+ 9 18.6	1.391	2.258	15.1	18.5
1 12	9 1.30	+ 8 29.8	1.334	2.262	10.8	18.3
1 22	8 51.23	+ 7 54.7	1.302	2.266	6.5	18.0
2 1	8 40.09	+ 7 33.0	1.295	2.271	4.5	17.9
2 11	8 29.41	+ 7 23.1	1.316	2.277	7.5	18.1
2 21	8 20.54	+ 7 21.7	1.363	2.282	11.8	18.4
3 2	8 14.49	+ 7 25.2	1.432	2.288	15.8	18.6

168367 1996 UT_{4} 1 29.1 107°.70 3°.8/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.45	+ 7 0.9	1.741	2.506	17.0	20.7
1 2	9 6.74	+ 6 54.5	1.666	2.520	13.7	20.5
1 12	8 59.49	+ 7 5.4	1.613	2.534	9.8	20.3
1 22	8 50.38	+ 7 32.6	1.584	2.547	5.8	20.1
2 1	8 40.43	+ 8 13.1	1.583	2.560	3.8	20.0
2 11	8 30.88	+ 9 1.8	1.611	2.572	6.3	20.2
2 21	8 22.82	+ 9 53.1	1.666	2.584	10.1	20.4
3 2	8 17.09	+10 42.1	1.745	2.596	13.7	20.7

464634 1999 TQ_{52} 1 29.2 123°.93 1°.8/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.87	+11 25.8	2.157	2.929	13.9	22.3
1 2	9 4.36	+11 32.3	2.074	2.936	11.0	22.1
1 12	8 57.76	+11 50.4	2.013	2.943	7.5	21.9
1 22	8 49.61	+12 18.2	1.979	2.950	3.8	21.7
2 1	8 40.75	+12 52.4	1.975	2.957	1.9	21.6
2 11	8 32.16	+13 29.2	2.000	2.963	5.1	21.8
2 21	8 24.73	+14 4.8	2.054	2.969	8.7	22.0
3 2	8 19.19	+14 36.2	2.133	2.976	11.9	22.2

350615 2001 SS_{134} 1 29.2 53°.32 0°.2/29.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.53	+16 18.2	1.195	2.011	20.4	21.4
1 2	9 9.94	+16 28.9	1.146	2.036	15.8	21.2
1 12	9 1.90	+16 53.2	1.116	2.061	10.3	21.0
1 22	8 51.42	+17 25.6	1.109	2.087	4.4	20.7
2 1	8 40.08	+17 59.5	1.129	2.113	1.7	20.6
2 11	8 29.67	+18 28.4	1.174	2.139	7.4	21.0
2 21	8 21.62	+18 48.6	1.243	2.165	12.5	21.4
3 2	8 16.81	+18 58.6	1.335	2.192	16.7	21.7

402464 2006 BB_{153} 1 29.2 272°.06 1°.4/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.21	+19 23.6	1.604	2.409	16.5	21.6
1 2	9 8.11	+19 51.0	1.507	2.393	12.9	21.3
1 12	9 0.91	+20 28.6	1.432	2.376	8.6	21.0
1 22	8 51.20	+21 11.3	1.382	2.360	3.7	20.7
2 1	8 40.07	+21 52.6	1.360	2.343	2.4	20.6
2 11	8 29.05	+22 26.0	1.366	2.326	7.4	20.8
2 21	8 19.60	+22 47.6	1.397	2.308	12.3	21.1
3 2	8 12.93	+22 55.9	1.451	2.291	16.6	21.3

44546 1999 *BR* 1 29.2 95°.37 1°.5/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.25	+13 14.9	2.280	3.051	13.3	18.8
1 2	9 5.23	+13 3.6	2.201	3.064	10.4	18.6
1 12	8 58.21	+13 0.9	2.145	3.076	7.1	18.4
1 22	8 49.77	+13 5.3	2.117	3.088	3.5	18.2
2 1	8 40.73	+13 14.5	2.118	3.101	1.7	18.1
2 11	8 32.01	+13 25.7	2.150	3.112	4.8	18.3
2 21	8 24.46	+13 36.7	2.210	3.124	8.2	18.6
3 2	8 18.74	+13 45.5	2.297	3.136	11.3	18.8

464545 2016 CP_{35} 1 29.2 36°.07 2°.9/27.8 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.60	+22 47.6	1.392	2.213	17.7	21.2
1 2	9 7.63	+23 21.1	1.329	2.224	13.7	20.9
1 12	9 0.44	+24 0.8	1.288	2.235	9.0	20.7
1 22	8 50.87	+24 39.9	1.271	2.247	4.3	20.5
2 1	8 40.29	+25 10.9	1.280	2.259	3.7	20.5
2 11	8 30.36	+25 28.3	1.316	2.273	8.1	20.7
2 21	8 22.47	+25 30.4	1.377	2.286	12.6	21.0
3 2	8 17.58	+25 18.0	1.459	2.300	16.4	21.3

459151 2012 CT_{50} 1 29.2 56°.62 4°.2/ 1.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.89	+ 3 21.9	1.661	2.424	17.8	21.1
1 2	9 3.45	+ 3 48.5	1.582	2.432	14.5	20.8
1 12	8 57.47	+ 4 39.2	1.524	2.441	10.6	20.6
1 22	8 49.59	+ 5 52.5	1.490	2.449	6.6	20.4
2 1	8 40.78	+ 7 23.6	1.483	2.458	4.2	20.3
2 11	8 32.26	+ 9 4.4	1.504	2.467	6.4	20.4
2 21	8 25.16	+10 46.2	1.552	2.476	10.4	20.7
3 2	8 20.35	+12 21.4	1.626	2.485	14.1	20.9

206899 2004 HP_{34} 1 29.2 302°.53 2°.4/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.58	+ 8 11.9	2.226	2.993	13.7	20.1
1 2	9 1.21	+ 8 30.8	2.121	2.978	11.0	19.9
1 12	8 55.82	+ 9 4.8	2.039	2.964	7.8	19.7
1 22	8 48.87	+ 9 52.5	1.982	2.949	4.4	19.4
2 1	8 41.06	+10 50.7	1.955	2.935	2.5	19.3
2 11	8 33.32	+11 54.8	1.957	2.920	5.1	19.4
2 21	8 26.52	+12 59.6	1.987	2.906	8.7	19.6
3 2	8 21.44	+14 0.7	2.043	2.892	12.1	19.8

19853 Ichinomiya 1 29.2 232°.67 1°.3/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.26	+19 8.0	2.730	3.515	11.0	19.0
1 2	9 2.15	+20 0.8	2.632	3.508	8.4	18.8
1 12	8 56.25	+21 0.9	2.559	3.500	5.5	18.6
1 22	8 49.00	+22 4.2	2.515	3.491	2.4	18.4
2 1	8 41.03	+23 6.3	2.502	3.483	1.9	18.3
2 11	8 33.14	+24 2.7	2.520	3.474	4.9	18.5
2 21	8 26.10	+24 50.3	2.568	3.465	8.0	18.7
3 2	8 20.57	+25 27.2	2.641	3.456	10.7	18.9

7281 1988 RX_{4} 1 29.2 120°.39 0°.8/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.55	+17 35.4	1.904	2.691	15.0	18.3
1 2	9 8.23	+18 14.3	1.833	2.709	11.5	18.1
1 12	9 0.40	+19 2.5	1.785	2.725	7.5	17.9
1 22	8 50.77	+19 55.0	1.765	2.742	3.1	17.6
2 1	8 40.35	+20 45.9	1.774	2.757	1.7	17.6
2 11	8 30.36	+21 30.0	1.813	2.772	6.0	17.9
2 21	8 21.86	+22 4.0	1.880	2.786	9.9	18.1
3 2	8 15.68	+22 26.5	1.972	2.800	13.3	18.4

360554 2003 SC_{353} 1 29.2 211°.28 0°.4/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.10	+18 26.7	1.819	2.610	15.4	21.3
1 2	9 8.98	+18 33.9	1.729	2.606	12.0	21.1
1 12	9 1.13	+18 48.8	1.662	2.602	7.9	20.8
1 22	8 51.17	+19 7.6	1.621	2.598	3.4	20.6
2 1	8 40.17	+19 25.9	1.609	2.593	1.5	20.4
2 11	8 29.44	+19 39.5	1.626	2.587	6.3	20.7
2 21	8 20.23	+19 46.0	1.671	2.581	10.6	20.9
3 2	8 13.48	+19 44.3	1.739	2.575	14.4	21.2

151143 2001 XQ_{47} 1 29.2 62°.76 7°.0/24.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.17	+31 54.3	1.676	2.488	15.6	18.8
1 2	9 9.32	+33 37.3	1.631	2.514	12.3	18.6
1 12	9 1.39	+35 17.8	1.610	2.540	9.1	18.5
1 22	8 51.25	+36 45.0	1.614	2.566	7.1	18.4
2 1	8 40.20	+37 49.9	1.647	2.592	7.7	18.5
2 11	8 29.82	+38 27.5	1.706	2.618	10.2	18.7
2 21	8 21.43	+38 38.3	1.789	2.643	13.1	18.9
3 2	8 15.93	+38 26.2	1.893	2.669	15.8	19.2

222758 2002 CP_{41} 1 29.2 357°.97 5°.0/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.01	+ 6 0.3	1.711	2.481	17.1	19.7
1 2	9 4.29	+ 5 22.3	1.626	2.479	14.0	19.5
1 12	8 58.04	+ 5 0.4	1.562	2.478	10.4	19.3
1 22	8 49.86	+ 4 55.8	1.521	2.478	6.8	19.1
2 1	8 40.73	+ 5 7.5	1.507	2.477	5.0	19.0
2 11	8 31.85	+ 5 32.4	1.520	2.478	7.0	19.1
2 21	8 24.35	+ 6 5.9	1.559	2.478	10.6	19.3
3 2	8 19.13	+ 6 42.8	1.622	2.480	14.2	19.5

169755 2002 PW_{27} 1 29.2 48°.75 1°.1/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.31	+15 18.3	1.370	2.176	18.8	19.6
1 2	9 8.64	+15 10.4	1.315	2.198	14.6	19.4
1 12	9 0.90	+15 14.8	1.281	2.222	9.7	19.2
1 22	8 51.01	+15 28.1	1.270	2.245	4.4	19.0
2 1	8 40.33	+15 45.6	1.286	2.269	1.7	18.8
2 11	8 30.41	+16 2.5	1.328	2.294	6.7	19.2
2 21	8 22.54	+16 15.6	1.397	2.319	11.4	19.6
3 2	8 17.56	+16 22.6	1.488	2.344	15.4	19.9

229629 2006 DF_{191} 1 29.2 314°.99 0°.7/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.15	+17 49.9	2.045	2.839	13.8	20.4
1 2	9 4.10	+18 20.2	1.958	2.838	10.7	20.2
1 12	8 57.76	+18 59.4	1.894	2.836	7.0	20.0
1 22	8 49.71	+19 43.4	1.857	2.834	3.0	19.7
2 1	8 40.80	+20 27.4	1.850	2.833	1.6	19.6
2 11	8 32.11	+21 6.5	1.871	2.831	5.7	19.9
2 21	8 24.66	+21 37.4	1.920	2.830	9.5	20.1
3 2	8 19.23	+21 58.2	1.994	2.829	12.9	20.3

297876 2002 CJ_{125} 1 29.2 298°.58 0°.6/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.46	+14 18.7	1.508	2.311	17.5	20.4
1 2	9 5.95	+14 41.4	1.422	2.304	13.8	20.2
1 12	8 59.45	+15 19.4	1.355	2.297	9.2	19.9
1 22	8 50.57	+16 9.2	1.314	2.290	4.1	19.6
2 1	8 40.43	+17 4.7	1.299	2.283	1.5	19.4
2 11	8 30.49	+17 58.8	1.311	2.276	6.8	19.7
2 21	8 22.17	+18 45.7	1.349	2.270	11.9	20.0
3 2	8 16.57	+19 21.7	1.410	2.263	16.2	20.2

30481 2000 OX_{40} 1 29.2 142°.40 3°.6/ 1.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.03	+ 3 59.8	2.789	3.520	12.1	19.8
1 2	9 1.71	+ 3 54.4	2.698	3.527	9.8	19.6
1 12	8 55.81	+ 4 1.8	2.632	3.535	7.3	19.5
1 22	8 48.77	+ 4 21.5	2.592	3.542	4.9	19.3
2 1	8 41.20	+ 4 52.0	2.581	3.548	3.6	19.3
2 11	8 33.79	+ 5 30.6	2.601	3.554	4.8	19.3
2 21	8 27.22	+ 6 14.0	2.650	3.560	7.2	19.5
3 2	8 22.04	+ 6 58.6	2.726	3.566	9.7	19.7

208443 2001 TZ_{131} 1 29.2 48°.56 2°.0/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.52	+22 28.2	2.048	2.849	13.6	20.7
1 2	9 5.01	+22 53.4	1.979	2.862	10.4	20.5
1 12	8 58.23	+23 22.6	1.933	2.876	6.8	20.3
1 22	8 49.85	+23 51.4	1.914	2.890	3.2	20.1
2 1	8 40.79	+24 15.1	1.924	2.904	2.6	20.1
2 11	8 32.15	+24 30.2	1.964	2.918	6.0	20.4
2 21	8 24.88	+24 35.1	2.030	2.933	9.5	20.6
3 2	8 19.71	+24 29.7	2.121	2.948	12.6	20.8

223270 2003 GL_{27} 1 29.2 154°.44 0°.4/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.39	+17 43.6	1.968	2.760	14.4	21.0
1 2	9 5.86	+18 2.9	1.884	2.762	11.1	20.8
1 12	8 58.93	+18 30.6	1.822	2.763	7.3	20.5
1 22	8 50.21	+19 3.0	1.788	2.765	3.1	20.3
2 1	8 40.62	+19 35.4	1.782	2.766	1.4	20.2
2 11	8 31.32	+20 3.6	1.806	2.767	5.7	20.5
2 21	8 23.35	+20 24.5	1.857	2.768	9.7	20.7
3 2	8 17.54	+20 36.6	1.933	2.769	13.2	20.9

424129 2007 EY_{205} 1 29.2 263°.42 4°.1/ 1.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.30	+ 3 31.0	2.227	2.969	14.4	21.5
1 2	9 3.37	+ 3 37.2	2.113	2.948	11.9	21.3
1 12	8 57.31	+ 4 1.1	2.020	2.928	8.9	21.1
1 22	8 49.57	+ 4 42.7	1.953	2.907	5.9	20.8
2 1	8 40.84	+ 5 40.1	1.915	2.885	4.1	20.7
2 11	8 32.08	+ 6 49.1	1.906	2.863	5.9	20.7
2 21	8 24.24	+ 8 4.2	1.925	2.841	9.2	20.9
3 2	8 18.16	+ 9 19.7	1.971	2.818	12.5	21.1

293635 2007 OG_{5} 1 29.2 89°.98 2°.1/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.73	+ 9 28.9	1.683	2.457	17.2	20.4
1 2	9 7.71	+ 9 58.5	1.620	2.483	13.5	20.2
1 12	9 0.11	+10 45.4	1.579	2.509	9.2	20.0
1 22	8 50.67	+11 45.9	1.563	2.534	4.7	19.8
2 1	8 40.47	+12 54.4	1.577	2.559	2.2	19.7
2 11	8 30.80	+14 3.9	1.619	2.583	5.9	20.0
2 21	8 22.76	+15 8.5	1.689	2.606	10.1	20.3
3 2	8 17.14	+16 4.0	1.783	2.629	13.7	20.5

251422 2008 AE_{86} 1 29.2 84°.16 1°.1/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.68	+18 29.4	1.691	2.492	16.0	20.8
1 2	9 7.14	+19 1.9	1.620	2.503	12.3	20.6
1 12	8 59.89	+19 43.8	1.572	2.515	8.0	20.3
1 22	8 50.64	+20 30.1	1.549	2.526	3.4	20.1
2 1	8 40.49	+21 14.4	1.555	2.538	2.0	20.0
2 11	8 30.79	+21 51.3	1.589	2.549	6.5	20.3
2 21	8 22.73	+22 17.4	1.650	2.560	10.8	20.6
3 2	8 17.17	+22 31.7	1.734	2.571	14.4	20.9

468599 2007 UF_{121} 1 29.2 206°.48 2°.0/30.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.86	+ 9 59.7	2.630	3.389	12.0	22.0
1 2	9 2.54	+10 2.6	2.532	3.386	9.6	21.8
1 12	8 56.47	+10 16.0	2.458	3.382	6.7	21.6
1 22	8 49.10	+10 38.4	2.411	3.378	3.7	21.4
2 1	8 41.09	+11 7.7	2.394	3.374	2.1	21.3
2 11	8 33.22	+11 40.9	2.408	3.370	4.4	21.4
2 21	8 26.22	+12 14.8	2.451	3.366	7.5	21.6
3 2	8 20.73	+12 46.7	2.521	3.361	10.4	21.8

121019 Minodamato 1 29.2 85°.97 0°.8/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.67	+18 45.5	1.474	2.278	17.8	19.8
1 2	9 10.49	+18 58.8	1.410	2.294	13.8	19.5
1 12	9 2.19	+19 21.2	1.366	2.309	9.0	19.3
1 22	8 51.63	+19 47.5	1.348	2.325	3.8	19.0
2 1	8 40.13	+20 11.9	1.357	2.340	1.9	18.9
2 11	8 29.28	+20 29.5	1.394	2.355	7.0	19.3
2 21	8 20.44	+20 37.8	1.456	2.370	11.7	19.6
3 2	8 14.52	+20 36.2	1.542	2.385	15.6	19.9

196955 2003 UQ_{52} 1 29.2 209°.32 0°.9/28.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.50	+20 30.6	2.476	3.258	12.0	20.5
1 2	9 6.26	+20 39.4	2.381	3.254	9.3	20.3
1 12	8 58.98	+20 52.4	2.310	3.249	6.1	20.1
1 22	8 50.19	+21 6.3	2.268	3.244	2.6	19.8
2 1	8 40.67	+21 18.0	2.256	3.238	1.6	19.7
2 11	8 31.36	+21 24.7	2.275	3.232	5.0	20.0
2 21	8 23.14	+21 24.8	2.323	3.226	8.4	20.2
3 2	8 16.72	+21 17.7	2.397	3.219	11.4	20.3

399367 2001 OE_{74} 1 29.2 102°.31 0°.6/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.53	+19 23.9	2.105	2.885	14.0	21.1
1 2	9 10.12	+19 27.6	2.039	2.910	10.8	20.9
1 12	9 1.42	+19 36.2	1.996	2.934	7.0	20.8
1 22	8 51.17	+19 46.4	1.982	2.958	2.9	20.5
2 1	8 40.34	+19 54.7	1.998	2.982	1.4	20.5
2 11	8 30.07	+19 58.2	2.045	3.004	5.4	20.8
2 21	8 21.29	+19 55.7	2.121	3.027	9.0	21.0
3 2	8 14.70	+19 46.9	2.223	3.048	12.1	21.3

461501 2003 FT_{3} 1 29.2 283°.36 1°.6/30.2 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.37	+11 13.2	2.529	3.282	12.6	23.9
1 2	9 7.28	+11 27.1	2.385	3.237	10.1	23.7
1 12	8 59.98	+11 52.6	2.265	3.190	7.1	23.4
1 22	8 50.79	+12 28.3	2.172	3.143	3.6	23.1
2 1	8 40.38	+13 11.7	2.111	3.093	1.7	22.9
2 11	8 29.66	+13 58.8	2.082	3.043	5.1	23.0
2 21	8 19.63	+14 45.7	2.083	2.991	9.0	23.2
3 2	8 11.21	+15 28.9	2.111	2.938	12.6	23.3

248769 2006 RU_{93} 1 29.2 171°.20 7°.3/ 5.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.95	−10 20.3	2.933	3.578	13.2	21.0
1 2	9 0.90	−10 48.1	2.838	3.580	11.6	20.8
1 12	8 55.31	−10 57.8	2.762	3.582	9.9	20.7
1 22	8 48.60	−10 47.4	2.710	3.583	8.3	20.6
2 1	8 41.33	−10 16.6	2.684	3.585	7.4	20.6
2 11	8 34.18	− 9 27.3	2.686	3.586	7.5	20.6
2 21	8 27.78	− 8 23.2	2.715	3.587	8.6	20.6
3 2	8 22.71	− 7 9.0	2.770	3.587	10.2	20.7

238985 2006 BY_{225} 1 29.2 177°.75 1°.2/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.75	+12 29.7	1.788	2.570	16.0	21.3
1 2	9 7.16	+12 50.0	1.702	2.571	12.6	21.1
1 12	8 59.95	+13 24.6	1.638	2.572	8.5	20.8
1 22	8 50.72	+14 10.3	1.599	2.573	4.0	20.5
2 1	8 40.48	+15 2.4	1.590	2.573	1.6	20.4
2 11	8 30.49	+15 55.0	1.609	2.573	6.0	20.7
2 21	8 21.93	+16 43.0	1.656	2.572	10.3	20.9
3 2	8 15.72	+17 23.0	1.727	2.571	14.2	21.1

194469 2001 WB_{14} 1 29.2 32°.67 6°.0/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.72	+ 6 46.9	1.107	1.911	22.4	18.9
1 2	9 6.50	+ 5 57.6	1.053	1.927	18.2	18.7
1 12	8 59.86	+ 5 31.5	1.016	1.944	13.3	18.5
1 22	8 50.72	+ 5 29.6	1.000	1.962	8.4	18.2
2 1	8 40.54	+ 5 50.0	1.007	1.981	6.0	18.2
2 11	8 31.11	+ 6 26.7	1.038	2.001	8.6	18.4
2 21	8 23.89	+ 7 11.9	1.093	2.022	13.0	18.7
3 2	8 19.85	+ 7 58.1	1.168	2.044	17.3	19.0

375624 2008 WZ_{114} 1 29.2 6°.21 3°.6/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.55	+ 8 16.6	1.955	2.725	15.3	20.1
1 2	9 3.62	+ 7 50.8	1.869	2.725	12.3	19.9
1 12	8 57.45	+ 7 38.3	1.804	2.726	8.9	19.7
1 22	8 49.61	+ 7 38.9	1.765	2.727	5.4	19.5
2 1	8 40.95	+ 7 51.2	1.753	2.728	3.6	19.3
2 11	8 32.55	+ 8 12.1	1.770	2.730	5.9	19.5
2 21	8 25.37	+ 8 37.9	1.814	2.732	9.4	19.7
3 2	8 20.20	+ 9 4.7	1.882	2.735	12.8	19.9

505056 2011 SS_{60} 1 29.2 222°.79 2°.2/31.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.95	+ 8 6.5	3.129	3.873	10.6	23.4
1 2	9 1.61	+ 8 14.8	3.019	3.862	8.5	23.2
1 12	8 55.78	+ 8 33.2	2.933	3.850	6.1	23.0
1 22	8 48.82	+ 9 0.6	2.876	3.839	3.5	22.9
2 1	8 41.27	+ 9 35.2	2.849	3.826	2.2	22.7
2 11	8 33.79	+10 14.3	2.854	3.813	4.0	22.8
2 21	8 26.99	+10 55.1	2.888	3.800	6.6	23.0
3 2	8 21.42	+11 34.8	2.951	3.786	9.1	23.2

426131 2012 GZ_{39} 1 29.2 248°.39 4°.4/ 1.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.54	+ 2 55.2	2.233	2.971	14.5	21.8
1 2	9 3.52	+ 2 58.3	2.124	2.956	12.0	21.6
1 12	8 57.39	+ 3 19.0	2.036	2.941	9.0	21.4
1 22	8 49.62	+ 3 57.5	1.975	2.926	6.0	21.2
2 1	8 40.93	+ 4 51.9	1.941	2.910	4.4	21.0
2 11	8 32.26	+ 5 58.1	1.937	2.893	5.9	21.1
2 21	8 24.55	+ 7 10.8	1.962	2.877	9.1	21.3
3 2	8 18.58	+ 8 24.4	2.013	2.860	12.3	21.4

489615 2007 TZ_{246} 1 29.2 187°.86 4°.3/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.47	+29 7.2	2.354	3.141	12.5	23.0
1 2	9 10.42	+30 8.0	2.269	3.141	9.8	22.8
1 12	9 1.91	+31 9.5	2.208	3.140	6.9	22.6
1 22	8 51.52	+32 5.1	2.176	3.137	4.6	22.5
2 1	8 40.20	+32 48.6	2.174	3.134	4.9	22.5
2 11	8 29.11	+33 15.6	2.203	3.130	7.4	22.6
2 21	8 19.34	+33 24.9	2.260	3.124	10.4	22.8
3 2	8 11.75	+33 17.9	2.340	3.118	13.1	23.0

88795 Morvan 1 29.2 151°.17 0°.9/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.08	+13 57.5	1.974	2.757	14.7	19.9
1 2	9 5.60	+14 12.3	1.889	2.760	11.5	19.7
1 12	8 58.76	+14 38.4	1.827	2.763	7.7	19.5
1 22	8 50.18	+15 12.8	1.791	2.766	3.5	19.2
2 1	8 40.75	+15 51.5	1.785	2.769	1.3	19.1
2 11	8 31.58	+16 29.8	1.808	2.771	5.5	19.3
2 21	8 23.71	+17 3.9	1.858	2.773	9.5	19.6
3 2	8 17.93	+17 31.2	1.934	2.775	13.0	19.8

205250 2000 QV_{206} 1 29.2 140°.76 0°.2/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.73	+16 12.5	1.950	2.732	14.8	21.7
1 2	9 8.38	+16 43.7	1.872	2.744	11.5	21.5
1 12	9 0.56	+17 24.9	1.818	2.756	7.6	21.2
1 22	8 50.93	+18 12.1	1.791	2.767	3.2	21.0
2 1	8 40.47	+18 59.8	1.794	2.778	1.4	20.9
2 11	8 30.37	+19 42.9	1.827	2.787	5.7	21.2
2 21	8 21.69	+20 17.9	1.888	2.796	9.7	21.4
3 2	8 15.27	+20 42.9	1.974	2.804	13.2	21.7

167887 2005 EP_{49} 1 29.2 322°.44 1°.0/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.66	+13 51.4	2.125	2.908	13.8	20.1
1 2	9 3.60	+14 0.1	2.035	2.905	10.8	19.9
1 12	8 57.40	+14 19.1	1.967	2.903	7.3	19.7
1 22	8 49.59	+14 45.9	1.927	2.901	3.4	19.5
2 1	8 40.99	+15 17.3	1.915	2.899	1.3	19.3
2 11	8 32.59	+15 49.2	1.933	2.897	5.1	19.6
2 21	8 25.33	+16 18.4	1.979	2.895	8.9	19.8
3 2	8 19.97	+16 42.1	2.050	2.893	12.3	20.0

187286 2005 TU_{72} 1 29.2 90°.94 7°.2/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.78	+35 11.4	1.936	2.737	14.3	20.2
1 2	9 10.36	+36 38.6	1.883	2.756	11.4	20.1
1 12	9 2.03	+38 0.9	1.854	2.774	8.8	20.0
1 22	8 51.58	+39 9.3	1.851	2.793	7.2	19.9
2 1	8 40.23	+39 55.8	1.876	2.811	7.8	20.0
2 11	8 29.46	+40 16.7	1.928	2.829	9.9	20.1
2 21	8 20.52	+40 12.9	2.005	2.846	12.5	20.3
3 2	8 14.30	+39 48.0	2.104	2.863	14.9	20.5

408400 2013 GZ_{111} 1 29.2 248°.83 1°.1/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.27	+14 41.2	1.784	2.571	15.8	21.0
1 2	9 7.67	+14 37.1	1.690	2.563	12.5	20.7
1 12	9 0.37	+14 43.5	1.617	2.554	8.4	20.5
1 22	8 50.96	+14 58.0	1.570	2.545	3.9	20.2
2 1	8 40.43	+15 17.2	1.552	2.535	1.6	20.0
2 11	8 30.10	+15 37.0	1.562	2.526	6.1	20.3
2 21	8 21.19	+15 54.0	1.600	2.516	10.6	20.5
3 2	8 14.68	+16 5.7	1.661	2.506	14.6	20.7

492191 2013 RR_{29} 1 29.2 167°.80 3°.7/ 1.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.92	+ 2 13.2	2.862	3.578	12.1	23.0
1 2	9 3.16	+ 2 23.3	2.766	3.584	9.9	22.8
1 12	8 56.80	+ 2 47.6	2.693	3.589	7.5	22.7
1 22	8 49.26	+ 3 25.5	2.648	3.594	5.0	22.5
2 1	8 41.14	+ 4 15.2	2.632	3.597	3.7	22.4
2 11	8 33.17	+ 5 13.3	2.648	3.600	4.8	22.5
2 21	8 26.00	+ 6 15.9	2.694	3.603	7.2	22.7
3 2	8 20.22	+ 7 18.9	2.768	3.604	9.7	22.8

331715 2002 RF_{255} 1 29.2 115°.38 1°.1/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.66	+19 42.2	2.462	3.247	12.0	21.7
1 2	9 4.76	+20 11.5	2.386	3.261	9.2	21.6
1 12	8 57.94	+20 46.2	2.335	3.275	6.0	21.4
1 22	8 49.75	+21 22.7	2.312	3.288	2.6	21.2
2 1	8 40.97	+21 56.8	2.319	3.301	1.7	21.1
2 11	8 32.48	+22 25.2	2.357	3.314	5.0	21.4
2 21	8 25.10	+22 45.6	2.424	3.326	8.2	21.6
3 2	8 19.47	+22 57.3	2.517	3.339	11.0	21.8

371671 2007 CY_{59} 1 29.2 337°.14 2°.9/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.49	+ 9 29.2	1.553	2.347	17.5	20.5
1 2	9 2.76	+ 9 30.8	1.464	2.337	14.0	20.3
1 12	8 57.31	+ 9 50.5	1.395	2.328	9.9	20.0
1 22	8 49.71	+10 27.0	1.349	2.319	5.4	19.7
2 1	8 40.95	+11 16.7	1.330	2.311	3.0	19.5
2 11	8 32.37	+12 13.5	1.338	2.304	6.5	19.7
2 21	8 25.23	+13 10.9	1.371	2.297	11.2	20.0
3 2	8 20.55	+14 3.3	1.427	2.292	15.4	20.2

63331 2001 FC_{60} 1 29.2 265°.62 4°.2/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.39	+26 16.8	1.718	2.527	15.4	19.6
1 2	9 8.88	+27 3.1	1.631	2.518	12.1	19.4
1 12	9 1.35	+27 53.1	1.567	2.509	8.2	19.1
1 22	8 51.43	+28 39.8	1.529	2.500	4.8	18.9
2 1	8 40.28	+29 15.3	1.519	2.490	4.8	18.9
2 11	8 29.40	+29 34.2	1.537	2.481	8.4	19.1
2 21	8 20.20	+29 34.6	1.580	2.472	12.4	19.3
3 2	8 13.74	+29 17.9	1.645	2.462	16.0	19.5

11031 1988 RC_{5} 1 29.2 138°.07 3°.3/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.37	+24 9.7	1.809	2.610	15.1	18.4
1 2	9 9.25	+25 1.3	1.735	2.618	11.6	18.2
1 12	9 1.33	+25 57.6	1.685	2.626	7.8	18.0
1 22	8 51.33	+26 51.9	1.661	2.634	4.1	17.8
2 1	8 40.37	+27 37.0	1.667	2.641	4.0	17.8
2 11	8 29.82	+28 7.6	1.701	2.648	7.5	18.0
2 21	8 20.91	+28 21.9	1.761	2.654	11.3	18.2
3 2	8 14.57	+28 20.4	1.845	2.660	14.6	18.5

428894 2008 UK_{348} 1 29.2 74°.08 1°.0/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.31	+14 11.9	2.114	2.891	14.0	21.9
1 2	9 6.11	+14 17.1	2.051	2.918	10.9	21.8
1 12	8 58.83	+14 31.7	2.011	2.946	7.2	21.6
1 22	8 50.12	+14 52.8	1.999	2.973	3.3	21.4
2 1	8 40.87	+15 17.2	2.016	2.999	1.3	21.3
2 11	8 32.09	+15 41.2	2.063	3.026	4.9	21.6
2 21	8 24.63	+16 2.2	2.139	3.052	8.5	21.9
3 2	8 19.15	+16 18.2	2.240	3.078	11.5	22.1

107561 2001 DW_{86} 1 29.2 266°.30 0°.1/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.35	+16 35.2	1.787	2.581	15.6	20.6
1 2	9 7.09	+16 49.4	1.688	2.566	12.2	20.3
1 12	9 0.09	+17 14.2	1.611	2.551	8.1	20.0
1 22	8 50.90	+17 46.1	1.559	2.536	3.5	19.7
2 1	8 40.50	+18 20.3	1.536	2.520	1.4	19.5
2 11	8 30.20	+18 51.8	1.542	2.504	6.3	19.8
2 21	8 21.27	+19 16.6	1.574	2.489	10.9	20.0
3 2	8 14.76	+19 32.5	1.630	2.473	15.0	20.3

503428 2016 EY_{24} 1 29.2 230°.94 0°.9/29.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.62	+15 34.4	2.230	3.007	13.4	21.2
1 2	9 6.56	+15 23.0	2.134	3.001	10.5	21.0
1 12	8 59.32	+15 18.6	2.060	2.995	7.1	20.8
1 22	8 50.42	+15 19.5	2.015	2.989	3.3	20.5
2 1	8 40.72	+15 23.1	1.999	2.982	1.3	20.4
2 11	8 31.21	+15 27.0	2.013	2.975	5.1	20.6
2 21	8 22.86	+15 29.0	2.056	2.969	8.8	20.8
3 2	8 16.45	+15 27.7	2.125	2.961	12.1	21.0

343016 2009 BZ_{94} 1 29.2 158°.44 1°.1/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.87	+11 28.2	2.674	3.439	11.7	21.1
1 2	9 1.78	+11 59.7	2.582	3.442	9.2	21.0
1 12	8 55.99	+12 41.9	2.515	3.445	6.2	20.8
1 22	8 48.95	+13 32.4	2.476	3.448	3.0	20.6
2 1	8 41.31	+14 27.8	2.468	3.451	1.3	20.4
2 11	8 33.81	+15 24.1	2.491	3.454	4.2	20.7
2 21	8 27.18	+16 17.5	2.543	3.456	7.3	20.9
3 2	8 22.02	+17 5.2	2.622	3.458	10.1	21.0

29594 1998 GK_{8} 1 29.2 46°.92 8°.2/ 6.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.52	−11 13.4	2.228	2.891	16.5	18.2
1 2	9 1.01	−11 11.1	2.145	2.902	14.4	18.1
1 12	8 55.60	−10 42.6	2.081	2.914	12.2	17.9
1 22	8 48.81	− 9 46.2	2.039	2.927	10.0	17.8
2 1	8 41.37	− 8 22.9	2.022	2.939	8.4	17.8
2 11	8 34.17	− 6 37.4	2.033	2.952	8.4	17.8
2 21	8 28.02	− 4 37.0	2.072	2.965	9.8	17.9
3 2	8 23.56	− 2 30.1	2.137	2.979	11.9	18.0

167978 2005 GE_{10} 1 29.2 141°.07 3°.6/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.84	+29 16.2	2.654	3.444	11.1	20.6
1 2	9 6.45	+29 55.8	2.578	3.453	8.7	20.4
1 12	8 59.06	+30 34.5	2.528	3.461	6.0	20.3
1 22	8 50.25	+31 7.7	2.506	3.469	3.9	20.2
2 1	8 40.82	+31 31.0	2.515	3.477	4.1	20.2
2 11	8 31.71	+31 41.5	2.553	3.485	6.3	20.3
2 21	8 23.74	+31 38.8	2.620	3.492	8.8	20.5
3 2	8 17.60	+31 23.8	2.711	3.499	11.2	20.7

462941 2011 BQ_{107} 1 29.2 78°.24 2°.3/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.58	+10 0.1	1.931	2.705	15.2	22.0
1 2	9 4.42	+10 6.0	1.851	2.714	12.1	21.8
1 12	8 57.98	+10 26.0	1.794	2.723	8.4	21.6
1 22	8 49.87	+10 58.3	1.762	2.732	4.5	21.4
2 1	8 40.97	+11 39.2	1.759	2.740	2.4	21.3
2 11	8 32.38	+12 24.3	1.785	2.749	5.5	21.5
2 21	8 25.07	+13 8.8	1.839	2.758	9.3	21.7
3 2	8 19.83	+13 49.0	1.917	2.766	12.7	22.0

215548 2002 XA_{64} 1 29.2 104°.48 3°.3/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.13	+ 6 50.8	2.084	2.834	15.0	21.1
1 2	9 6.80	+ 6 49.2	2.013	2.858	12.0	20.9
1 12	8 59.34	+ 7 2.4	1.966	2.882	8.6	20.8
1 22	8 50.38	+ 7 29.2	1.944	2.905	5.1	20.6
2 1	8 40.80	+ 8 6.7	1.952	2.928	3.3	20.5
2 11	8 31.62	+ 8 50.6	1.990	2.950	5.5	20.7
2 21	8 23.74	+ 9 36.6	2.057	2.971	8.7	20.9
3 2	8 17.85	+10 20.6	2.149	2.991	11.8	21.2

459766 2013 QD_{64} 1 29.2 179°.53 0°.3/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.94	+15 35.9	2.487	3.259	12.3	22.5
1 2	9 5.80	+15 51.3	2.395	3.261	9.6	22.3
1 12	8 58.69	+16 14.5	2.327	3.262	6.4	22.1
1 22	8 50.13	+16 42.9	2.287	3.262	2.8	21.9
2 1	8 40.87	+17 13.1	2.278	3.262	1.0	21.7
2 11	8 31.80	+17 41.8	2.300	3.261	4.7	22.0
2 21	8 23.77	+18 6.1	2.351	3.260	8.1	22.2
3 2	8 17.46	+18 24.5	2.429	3.258	11.1	22.4

52188 4142 T_{-2} 1 29.2 85°.35 6°.1/ 2.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.89	− 1 46.3	1.905	2.625	17.2	19.7
1 2	9 5.99	− 1 47.8	1.841	2.655	14.3	19.6
1 12	8 58.87	− 1 26.4	1.797	2.684	11.1	19.4
1 22	8 50.19	− 0 42.1	1.777	2.712	8.0	19.3
2 1	8 40.88	+ 0 22.3	1.784	2.741	6.2	19.2
2 11	8 32.02	+ 1 41.1	1.821	2.768	7.0	19.3
2 21	8 24.54	+ 3 7.2	1.885	2.795	9.6	19.5
3 2	8 19.14	+ 4 33.7	1.975	2.822	12.5	19.8

417196 2005 WQ_{198} 1 29.2 76°.98 2°.0/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.09	+12 2.3	1.909	2.688	15.2	21.5
1 2	9 5.66	+11 53.4	1.825	2.691	12.0	21.3
1 12	8 58.84	+11 56.1	1.763	2.694	8.3	21.1
1 22	8 50.26	+12 8.8	1.726	2.697	4.3	20.8
2 1	8 40.83	+12 28.8	1.719	2.701	2.2	20.7
2 11	8 31.69	+12 52.3	1.740	2.704	5.6	20.9
2 21	8 23.89	+13 15.8	1.789	2.707	9.6	21.2
3 2	8 18.22	+13 36.3	1.862	2.710	13.1	21.4

138646 2000 RK_{34} 1 29.2 180°.55 0°.3/29.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.37	+16 24.8	2.863	3.635	10.8	20.5
1 2	9 3.56	+16 30.0	2.770	3.636	8.4	20.3
1 12	8 57.09	+16 41.0	2.701	3.636	5.6	20.1
1 22	8 49.42	+16 55.7	2.661	3.636	2.4	19.9
2 1	8 41.18	+17 11.7	2.652	3.636	0.9	19.8
2 11	8 33.13	+17 26.5	2.674	3.635	4.1	20.0
2 21	8 25.94	+17 38.2	2.726	3.635	7.1	20.2
3 2	8 20.22	+17 45.6	2.805	3.633	9.8	20.4

242384 2004 EN_{16} 1 29.2 250°.09 0°.2/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.35	+14 55.6	2.478	3.258	12.1	20.7
1 2	9 2.37	+15 24.4	2.381	3.252	9.4	20.5
1 12	8 56.52	+16 2.7	2.309	3.245	6.3	20.3
1 22	8 49.25	+16 47.4	2.263	3.239	2.7	20.0
2 1	8 41.25	+17 34.9	2.248	3.232	1.0	19.9
2 11	8 33.38	+18 21.1	2.264	3.226	4.6	20.1
2 21	8 26.43	+19 2.4	2.308	3.219	8.1	20.3
3 2	8 21.10	+19 36.6	2.378	3.212	11.1	20.5

500320 2012 RQ_{34} 1 29.2 94°.65 3°.6/31.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.11	+ 4 57.8	2.466	3.209	13.1	21.6
1 2	9 2.03	+ 4 52.3	2.380	3.218	10.7	21.4
1 12	8 56.18	+ 5 0.5	2.317	3.226	7.9	21.2
1 22	8 49.06	+ 5 22.0	2.280	3.234	5.1	21.1
2 1	8 41.34	+ 5 54.9	2.272	3.242	3.6	21.0
2 11	8 33.83	+ 6 36.0	2.293	3.250	5.1	21.1
2 21	8 27.26	+ 7 21.5	2.343	3.258	7.8	21.3
3 2	8 22.26	+ 8 7.5	2.420	3.265	10.6	21.5

211513 2003 QB_{44} 1 29.2 147°.82 0°.2/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.55	+15 51.9	1.985	2.766	14.7	21.5
1 2	9 8.23	+16 9.6	1.904	2.775	11.4	21.3
1 12	9 0.49	+16 36.7	1.847	2.784	7.5	21.1
1 22	8 50.96	+17 9.9	1.816	2.792	3.3	20.8
2 1	8 40.60	+17 44.8	1.815	2.799	1.2	20.7
2 11	8 30.58	+18 16.7	1.844	2.806	5.6	21.0
2 21	8 21.95	+18 42.7	1.902	2.812	9.6	21.3
3 2	8 15.52	+19 0.8	1.984	2.818	13.0	21.5

453373 2009 BJ_{74} 1 29.2 40°.53 7°.0/ 1.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.01	+ 5 0.6	1.266	2.049	21.3	20.1
1 2	9 7.97	+ 3 52.1	1.205	2.063	17.5	19.9
1 12	9 0.73	+ 3 4.8	1.162	2.078	13.2	19.7
1 22	8 51.14	+ 2 41.1	1.141	2.094	9.0	19.5
2 1	8 40.55	+ 2 41.1	1.144	2.111	7.0	19.4
2 11	8 30.58	+ 3 1.2	1.173	2.128	8.9	19.6
2 21	8 22.64	+ 3 34.8	1.225	2.146	12.7	19.9
3 2	8 17.67	+ 4 14.7	1.299	2.165	16.6	20.1

234874 2002 SW_{60} 1 29.2 41°.29 2°.0/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.11	+ 9 25.9	2.165	2.935	13.9	20.3
1 2	9 2.37	+ 9 49.0	2.076	2.937	11.1	20.1
1 12	8 56.60	+10 26.4	2.010	2.938	7.7	19.9
1 22	8 49.30	+11 16.0	1.971	2.940	4.1	19.7
2 1	8 41.24	+12 14.0	1.960	2.942	2.1	19.5
2 11	8 33.37	+13 15.4	1.979	2.943	5.0	19.7
2 21	8 26.57	+14 15.3	2.027	2.945	8.6	20.0
3 2	8 21.56	+15 9.8	2.100	2.947	11.9	20.2

346696 2008 YG_{123} 1 29.2 295°.80 0°.9/29.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.61	+13 40.7	2.237	3.018	13.2	21.6
1 2	9 2.77	+13 57.3	2.141	3.011	10.4	21.4
1 12	8 56.88	+14 24.4	2.069	3.004	7.0	21.2
1 22	8 49.43	+14 59.6	2.023	2.997	3.2	20.9
2 1	8 41.19	+15 39.4	2.007	2.990	1.2	20.8
2 11	8 33.09	+16 19.5	2.020	2.984	4.9	21.0
2 21	8 26.03	+16 56.5	2.061	2.977	8.6	21.2
3 2	8 20.75	+17 27.4	2.128	2.970	11.9	21.4

467703 2008 XE_{24} 1 29.2 26°.58 6°.4/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.69	+33 37.6	1.933	2.741	14.0	20.9
1 2	9 7.27	+34 43.9	1.866	2.745	11.2	20.7
1 12	9 0.09	+35 47.2	1.822	2.750	8.4	20.6
1 22	8 50.84	+36 39.4	1.804	2.755	6.6	20.5
2 1	8 40.66	+37 13.4	1.814	2.760	7.0	20.5
2 11	8 30.92	+37 25.2	1.851	2.766	9.4	20.7
2 21	8 22.84	+37 14.8	1.912	2.772	12.2	20.9
3 2	8 17.31	+36 45.0	1.996	2.778	14.9	21.0

412842 2014 PB_{52} 1 29.2 291°.55 1°.5/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.50	+20 51.4	1.599	2.405	16.5	21.0
1 2	9 9.00	+21 0.5	1.513	2.398	12.9	20.8
1 12	9 1.44	+21 16.1	1.448	2.392	8.5	20.5
1 22	8 51.51	+21 33.5	1.408	2.385	3.7	20.2
2 1	8 40.38	+21 47.5	1.396	2.379	2.3	20.1
2 11	8 29.57	+21 53.4	1.412	2.372	7.1	20.3
2 21	8 20.48	+21 49.1	1.454	2.366	11.8	20.6
3 2	8 14.17	+21 34.7	1.518	2.360	15.9	20.8

229942 1998 SJ_{173} 1 29.2 55°.48 0°.8/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.20	+14 7.7	2.001	2.787	14.4	20.9
1 2	9 4.13	+14 23.0	1.919	2.792	11.2	20.7
1 12	8 57.80	+14 49.1	1.861	2.797	7.5	20.5
1 22	8 49.83	+15 23.4	1.828	2.803	3.4	20.3
2 1	8 41.07	+16 1.6	1.825	2.809	1.3	20.1
2 11	8 32.60	+16 39.3	1.851	2.815	5.3	20.4
2 21	8 25.37	+17 12.9	1.904	2.821	9.2	20.7
3 2	8 20.17	+17 39.7	1.983	2.827	12.6	20.9

229512 2005 WU_{113} 1 29.2 187°.22 3°.7/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.71	+ 5 50.6	2.551	3.286	13.0	21.5
1 2	9 5.55	+ 5 29.5	2.452	3.286	10.6	21.3
1 12	8 58.51	+ 5 20.1	2.377	3.284	7.8	21.1
1 22	8 50.09	+ 5 22.6	2.329	3.283	5.0	20.9
2 1	8 40.97	+ 5 35.8	2.311	3.280	3.7	20.8
2 11	8 32.00	+ 5 57.5	2.324	3.277	5.2	20.9
2 21	8 23.97	+ 6 24.6	2.365	3.274	8.0	21.1
3 2	8 17.56	+ 6 53.9	2.434	3.270	10.8	21.3

249386 2009 BU_{75} 1 29.2 21°.33 5°.4/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 22.87	+34 41.9	1.901	2.690	14.9	19.7
1 2	9 15.56	+34 33.5	1.827	2.696	11.9	19.5
1 12	9 5.27	+34 16.6	1.776	2.703	8.6	19.3
1 22	8 52.94	+33 45.3	1.752	2.710	5.9	19.1
2 1	8 39.93	+32 55.6	1.757	2.718	5.7	19.2
2 11	8 27.77	+31 47.4	1.792	2.727	8.2	19.3
2 21	8 17.72	+30 24.6	1.855	2.736	11.4	19.5
3 2	8 10.57	+28 52.2	1.942	2.745	14.5	19.7

341639 2007 VB_{29} 1 29.2 135°.89 0°.6/28.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.57	+18 24.9	2.727	3.506	11.1	22.1
1 2	9 3.78	+18 49.0	2.645	3.517	8.6	21.9
1 12	8 57.27	+19 18.6	2.588	3.526	5.6	21.8
1 22	8 49.52	+19 50.8	2.560	3.536	2.4	21.5
2 1	8 41.21	+20 22.2	2.562	3.545	1.2	21.5
2 11	8 33.14	+20 49.6	2.595	3.554	4.4	21.7
2 21	8 26.02	+21 11.0	2.658	3.562	7.5	21.9
3 2	8 20.45	+21 25.2	2.747	3.570	10.1	22.1

380093 2013 TS 1 29.2 99°.08 6°.8/ 3.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.72	− 4 22.1	2.274	2.972	15.3	21.4
1 2	9 3.37	− 4 47.1	2.196	2.988	13.1	21.2
1 12	8 57.11	− 4 52.0	2.138	3.004	10.6	21.1
1 22	8 49.48	− 4 35.6	2.105	3.020	8.2	21.0
2 1	8 41.23	− 3 58.6	2.098	3.035	6.9	20.9
2 11	8 33.24	− 3 4.2	2.119	3.051	7.3	21.0
2 21	8 26.32	− 1 57.5	2.168	3.066	9.2	21.1
3 2	8 21.11	− 0 44.5	2.242	3.080	11.5	21.3

521014 2015 CD_{68} 1 29.2 79°.04 1°.9/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.18	+24 7.4	2.192	2.982	13.2	20.7
1 2	9 8.45	+24 9.2	2.117	2.994	10.1	20.6
1 12	9 0.46	+24 12.3	2.066	3.006	6.7	20.4
1 22	8 50.90	+24 13.0	2.044	3.018	3.1	20.2
2 1	8 40.70	+24 7.9	2.051	3.030	2.4	20.1
2 11	8 30.98	+23 54.8	2.088	3.042	5.7	20.4
2 21	8 22.66	+23 33.3	2.154	3.054	9.1	20.6
3 2	8 16.46	+23 4.4	2.245	3.066	12.1	20.8

207611 2006 QE_{157} 1 29.2 64°.18 4°.9/ 2.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.94	− 1 27.3	2.331	3.049	14.5	20.0
1 2	9 1.27	− 1 3.4	2.245	3.060	12.1	19.8
1 12	8 55.77	− 0 18.9	2.181	3.070	9.3	19.6
1 22	8 48.93	+ 0 45.4	2.142	3.081	6.6	19.5
2 1	8 41.47	+ 2 6.9	2.131	3.091	4.9	19.4
2 11	8 34.20	+ 3 40.4	2.150	3.102	5.8	19.5
2 21	8 27.91	+ 5 19.4	2.198	3.112	8.3	19.7
3 2	8 23.23	+ 6 57.6	2.274	3.123	11.0	19.8

255930 2006 SD_{397} 1 29.2 54°.89 3°.7/31.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.50	+ 3 43.4	1.569	2.337	18.5	19.8
1 2	9 4.04	+ 4 25.9	1.499	2.353	14.9	19.6
1 12	8 57.97	+ 5 34.0	1.450	2.370	10.7	19.4
1 22	8 49.97	+ 7 4.8	1.424	2.387	6.4	19.1
2 1	8 41.07	+ 8 51.8	1.427	2.404	3.7	19.0
2 11	8 32.57	+10 45.6	1.457	2.422	6.3	19.2
2 21	8 25.59	+12 36.5	1.515	2.439	10.5	19.5
3 2	8 21.01	+14 16.9	1.597	2.457	14.3	19.8

297003 2010 FR_{30} 1 29.2 100°.35 4°.4/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.03	+30 32.1	2.362	3.159	12.1	21.0
1 2	9 6.18	+31 19.3	2.286	3.164	9.5	20.8
1 12	8 59.09	+32 5.3	2.235	3.168	6.7	20.7
1 22	8 50.38	+32 44.5	2.212	3.172	4.7	20.5
2 1	8 40.92	+33 11.6	2.217	3.176	4.9	20.6
2 11	8 31.78	+33 23.5	2.252	3.179	7.2	20.7
2 21	8 23.93	+33 19.4	2.314	3.183	9.9	20.9
3 2	8 18.11	+33 0.7	2.399	3.187	12.5	21.1

425452 2010 ED_{46} 1 29.2 248°.99 0°.2/29.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.85	+18 27.3	2.418	3.198	12.4	20.7
1 2	9 5.88	+18 25.2	2.318	3.189	9.6	20.5
1 12	8 58.85	+18 28.1	2.242	3.180	6.4	20.3
1 22	8 50.29	+18 33.7	2.195	3.171	2.7	20.0
2 1	8 40.95	+18 39.1	2.177	3.161	1.1	19.9
2 11	8 31.80	+18 41.9	2.191	3.152	4.9	20.1
2 21	8 23.70	+18 40.2	2.233	3.142	8.4	20.3
3 2	8 17.40	+18 33.3	2.301	3.132	11.6	20.5

288844 2004 RX_{203} 1 29.2 207°.34 0°.2/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.62	+19 11.1	2.249	3.022	13.4	20.3
1 2	9 11.14	+18 45.1	2.152	3.018	10.5	20.1
1 12	9 2.32	+18 22.0	2.079	3.014	7.0	19.9
1 22	8 51.76	+17 59.9	2.034	3.010	3.0	19.6
2 1	8 40.39	+17 36.7	2.021	3.005	1.1	19.5
2 11	8 29.33	+17 10.9	2.039	3.000	5.2	19.8
2 21	8 19.57	+16 42.3	2.087	2.994	9.0	20.0
3 2	8 11.94	+16 10.8	2.162	2.989	12.3	20.2

418435 2008 PE_{9} 1 29.2 216°.73 1°.9/28.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.47	+23 32.7	2.466	3.250	12.0	21.6
1 2	9 7.92	+23 49.5	2.368	3.242	9.3	21.4
1 12	9 0.20	+24 8.8	2.295	3.234	6.2	21.2
1 22	8 50.87	+24 26.8	2.251	3.225	3.0	21.0
2 1	8 40.73	+24 39.5	2.237	3.216	2.4	21.0
2 11	8 30.80	+24 44.0	2.254	3.206	5.6	21.1
2 21	8 21.99	+24 39.0	2.300	3.195	8.9	21.3
3 2	8 15.09	+24 24.7	2.372	3.184	11.8	21.5

452542 2004 TD_{343} 1 29.2 78°.66 2°.6/30.6 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.64	+10 8.7	1.517	2.300	18.4	22.4
1 2	9 8.72	+10 13.0	1.457	2.324	14.5	22.2
1 12	9 0.97	+10 34.4	1.417	2.348	10.0	22.0
1 22	8 51.21	+11 10.0	1.401	2.371	5.2	21.7
2 1	8 40.64	+11 55.2	1.413	2.395	2.7	21.6
2 11	8 30.68	+12 43.7	1.453	2.418	6.4	21.9
2 21	8 22.53	+13 30.1	1.520	2.440	10.7	22.2
3 2	8 17.03	+14 10.2	1.610	2.463	14.6	22.5

427809 2005 GG_{169} 1 29.2 262°.81 4°.2/26.2 17

12 23	9 10.57	+29 7.8	2.303	3.102	12.3	21.4
1 2	9 5.96	+29 55.6	2.217	3.096	9.6	21.2
1 12	8 59.05	+30 43.8	2.155	3.090	6.8	21.0
1 22	8 50.41	+31 26.7	2.121	3.085	4.5	20.9
2 1	8 40.91	+31 58.7	2.116	3.079	4.7	20.9
2 11	8 31.64	+32 15.9	2.141	3.073	7.2	21.0
2 21	8 23.62	+32 17.2	2.192	3.067	10.2	21.2
3 2	8 17.64	+32 3.5	2.266	3.061	12.9	21.4

250171 2002 TH_{133} 1 29.2 348°.90 8°.8/25.1 18 R

12 23	9 19.42	+38 16.6	1.616	2.420	16.5	19.9
1 2	9 14.01	+39 14.6	1.547	2.418	13.5	19.7
1 12	9 4.92	+40 4.6	1.499	2.417	10.7	19.6
1 22	8 53.03	+40 35.9	1.476	2.415	8.9	19.5
2 1	8 39.92	+40 39.7	1.479	2.414	9.4	19.5
2 11	8 27.52	+40 12.8	1.507	2.414	11.7	19.6
2 21	8 17.50	+39 17.8	1.559	2.413	14.8	19.8
3 2	8 10.92	+38 1.4	1.632	2.413	17.7	20.0

222365 2000 XK_{31} 1 29.2 49°.00 5°.6/26.3 18

12 23	9 13.74	+29 26.4	1.591	2.406	16.2	19.8
1 2	9 9.01	+30 28.7	1.541	2.429	12.6	19.6
1 12	9 1.24	+31 30.2	1.514	2.452	8.8	19.4
1 22	8 51.33	+32 22.0	1.512	2.476	5.9	19.3
2 1	8 40.61	+32 56.6	1.537	2.500	6.2	19.4
2 11	8 30.64	+33 9.9	1.590	2.524	9.1	19.6
2 21	8 22.67	+33 2.1	1.666	2.548	12.5	19.9
3 2	8 17.56	+32 36.4	1.765	2.573	15.5	20.1

363776 2005 EO_{249} 1 29.2 303°.31 1°.7/29.9 16

12 23	9 9.44	+13 23.5	1.507	2.308	17.6	21.4
1 2	9 6.13	+13 20.0	1.410	2.290	14.0	21.1
1 12	8 59.77	+13 30.5	1.333	2.272	9.6	20.8
1 22	8 50.93	+13 53.3	1.280	2.254	4.7	20.5
2 1	8 40.67	+14 24.4	1.253	2.237	2.0	20.3
2 11	8 30.47	+14 58.4	1.253	2.220	6.9	20.5
2 21	8 21.81	+15 30.3	1.279	2.203	12.0	20.8
3 2	8 15.86	+15 56.0	1.327	2.187	16.6	21.0

466160 2012 HZ_{77} 1 29.2 308°.96 0°.6/29.5 17

12 23	9 8.51	+15 8.6	1.711	2.509	15.9	21.7
1 2	9 4.98	+15 19.1	1.616	2.496	12.5	21.5
1 12	8 58.76	+15 41.5	1.542	2.482	8.4	21.2
1 22	8 50.41	+16 13.0	1.493	2.469	3.8	20.9
2 1	8 40.90	+16 49.2	1.472	2.457	1.4	20.7
2 11	8 31.52	+17 24.7	1.479	2.444	6.2	21.0
2 21	8 23.52	+17 55.2	1.512	2.432	10.9	21.2
3 2	8 17.92	+18 17.7	1.569	2.420	15.0	21.4

355351 2007 TP_{168} 1 29.2 145°.30 3°.2/27.5 18

12 23	9 16.44	+25 5.1	1.934	2.728	14.5	21.1
1 2	9 10.67	+25 42.6	1.859	2.738	11.2	20.9
1 12	9 2.20	+26 23.0	1.808	2.747	7.5	20.7
1 22	8 51.75	+27 0.0	1.783	2.755	4.0	20.5
2 1	8 40.43	+27 27.7	1.789	2.763	3.8	20.5
2 11	8 29.55	+27 41.9	1.823	2.770	7.1	20.7
2 21	8 20.28	+27 41.6	1.885	2.777	10.7	21.0
3 2	8 13.50	+27 27.9	1.971	2.783	14.0	21.2

423679 2005 YV_{212} 1 29.2 17°.75 0°.2/29.3 18

12 23	9 14.16	+19 14.3	1.590	2.392	16.8	20.4
1 2	9 9.24	+18 42.6	1.513	2.396	13.1	20.2
1 12	9 1.41	+18 15.8	1.459	2.401	8.7	19.9
1 22	8 51.44	+17 51.6	1.430	2.406	3.8	19.6
2 1	8 40.56	+17 27.5	1.428	2.412	1.4	19.5
2 11	8 30.20	+17 1.7	1.455	2.419	6.4	19.8
2 21	8 21.65	+16 33.4	1.508	2.427	11.0	20.1
3 2	8 15.80	+16 2.6	1.585	2.435	14.9	20.4

237668 2001 SH_{260} 1 29.2 124°.72 3°.8/ 1.3 18

12 23	9 6.23	+ 3 41.8	2.594	3.329	12.8	21.0
1 2	9 2.06	+ 3 39.8	2.507	3.337	10.4	20.9
1 12	8 56.20	+ 3 51.8	2.442	3.345	7.8	20.7
1 22	8 49.11	+ 4 17.4	2.403	3.353	5.2	20.6
2 1	8 41.45	+ 4 54.9	2.394	3.361	3.8	20.5
2 11	8 33.98	+ 5 40.9	2.414	3.369	5.0	20.6
2 21	8 27.41	+ 6 31.6	2.464	3.376	7.6	20.7
3 2	8 22.31	+ 7 23.2	2.540	3.383	10.2	20.9

290716 2005 UL_{422} 1 29.2 15°.28 3°.2/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.13	+21 59.3	1.109	1.947	20.2	20.3
1 2	9 7.41	+22 37.1	1.047	1.950	15.6	20.0
1 12	9 0.87	+23 24.8	1.004	1.955	10.3	19.7
1 22	8 51.40	+24 14.0	0.983	1.960	4.9	19.4
2 1	8 40.56	+24 55.1	0.986	1.966	4.1	19.4
2 11	8 30.38	+25 20.4	1.013	1.973	9.3	19.7
2 21	8 22.59	+25 27.0	1.063	1.981	14.5	20.0
3 2	8 18.35	+25 15.8	1.132	1.991	19.0	20.3

231795 2000 DT_{62} 1 29.2 331°.78 1°.2/28.8 18

12 23	9 11.50	+19 44.4	1.231	2.056	19.4	20.6
1 2	9 8.30	+19 51.6	1.151	2.047	15.2	20.3
1 12	9 1.47	+20 8.6	1.091	2.039	10.1	20.0
1 22	8 51.71	+20 30.4	1.053	2.031	4.3	19.6
2 1	8 40.42	+20 50.4	1.041	2.024	2.4	19.5
2 11	8 29.49	+21 2.5	1.053	2.018	8.2	19.8
2 21	8 20.67	+21 3.2	1.089	2.012	13.8	20.1
3 2	8 15.24	+20 52.2	1.146	2.007	18.6	20.4

334718 2003 GY_{53} 1 29.2 246°.56 3°.5/31.2 18

12 23	9 10.05	+ 7 30.5	1.645	2.420	17.5	21.2
1 2	9 6.21	+ 7 32.9	1.552	2.412	14.2	21.0
1 12	8 59.60	+ 7 54.4	1.479	2.404	10.2	20.7
1 22	8 50.79	+ 8 34.1	1.430	2.396	5.9	20.4
2 1	8 40.78	+ 9 28.8	1.409	2.387	3.6	20.3
2 11	8 30.88	+10 32.5	1.415	2.379	6.6	20.4
2 21	8 22.40	+11 38.3	1.448	2.370	11.1	20.7
3 2	8 16.37	+12 40.3	1.504	2.361	15.2	20.9

120937 1998 SD_{155} 1 29.2 159°.53 2°.5/30.7 18

12 23	9 13.70	+ 9 15.2	1.924	2.686	15.7	20.8
1 2	9 8.44	+ 9 24.3	1.839	2.694	12.5	20.6
1 12	9 0.72	+ 9 48.5	1.776	2.701	8.8	20.4
1 22	8 51.15	+10 25.7	1.740	2.707	4.7	20.2
2 1	8 40.68	+11 12.4	1.733	2.713	2.6	20.0
2 11	8 30.48	+12 3.4	1.755	2.718	5.7	20.2
2 21	8 21.65	+12 53.9	1.806	2.722	9.7	20.5
3 2	8 15.03	+13 39.6	1.883	2.725	13.3	20.7

318759 2005 SA_{46} 1 29.2 187°.02 0°.5/28.9 18

12 23	9 11.17	+18 1.6	2.013	2.803	14.2	21.1
1 2	9 6.51	+18 20.8	1.926	2.802	11.0	20.8
1 12	8 59.46	+18 48.0	1.862	2.802	7.2	20.6
1 22	8 50.62	+19 19.5	1.825	2.802	3.1	20.4
2 1	8 40.89	+19 50.8	1.817	2.801	1.5	20.2
2 11	8 31.42	+20 17.6	1.839	2.800	5.7	20.5
2 21	8 23.26	+20 37.0	1.889	2.799	9.7	20.7
3 2	8 17.23	+20 47.7	1.963	2.797	13.1	21.0

371735 2007 EM_{149} 1 29.2 192°.96 1°.4/28.2 16

12 23	9 10.47	+20 15.4	2.412	3.198	12.2	22.2
1 2	9 5.64	+20 50.6	2.321	3.196	9.4	22.0
1 12	8 58.73	+21 31.8	2.254	3.194	6.2	21.8
1 22	8 50.27	+22 15.0	2.216	3.191	2.7	21.5
2 1	8 41.03	+22 55.6	2.207	3.188	2.0	21.5
2 11	8 31.98	+23 29.6	2.230	3.185	5.3	21.7
2 21	8 23.99	+23 54.4	2.281	3.181	8.7	21.9
3 2	8 17.82	+24 9.0	2.358	3.176	11.7	22.1

246885 1996 GV_{8} 1 29.2 91°.50 4°.2/26.4 18

12 23	9 12.27	+28 29.5	2.150	2.949	13.1	20.8
1 2	9 7.24	+29 22.3	2.084	2.964	10.1	20.6
1 12	8 59.83	+30 15.2	2.042	2.978	7.0	20.4
1 22	8 50.73	+31 2.1	2.027	2.992	4.5	20.3
2 1	8 40.89	+31 37.2	2.042	3.006	4.7	20.3
2 11	8 31.46	+31 56.8	2.086	3.019	7.3	20.5
2 21	8 23.47	+32 0.0	2.156	3.033	10.3	20.7
3 2	8 17.67	+31 48.2	2.250	3.046	12.9	20.9

152706 1998 SU_{54} 1 29.2 153°.80 2°.4/27.9 18

12 23	9 17.13	+22 18.2	1.794	2.588	15.5	20.9
1 2	9 11.39	+22 54.0	1.718	2.597	12.0	20.7
1 12	9 2.80	+23 35.5	1.664	2.605	7.9	20.4
1 22	8 52.07	+24 16.6	1.637	2.612	3.7	20.2
2 1	8 40.36	+24 50.9	1.639	2.618	3.1	20.2
2 11	8 29.08	+25 13.7	1.671	2.623	7.0	20.4
2 21	8 19.50	+25 22.8	1.729	2.628	11.1	20.7
3 2	8 12.54	+25 18.8	1.812	2.632	14.6	20.9

251001 Sluch 1 29.2 262°.64 0°.3/29.1 17

12 23	9 16.73	+18 59.5	1.961	2.744	14.8	20.7
1 2	9 11.20	+18 55.2	1.847	2.719	11.6	20.4
1 12	9 2.85	+18 56.7	1.755	2.693	7.8	20.1
1 22	8 52.22	+19 0.8	1.691	2.667	3.4	19.8
2 1	8 40.25	+19 3.7	1.656	2.640	1.4	19.6
2 11	8 28.28	+19 2.0	1.651	2.612	6.2	19.9
2 21	8 17.59	+18 53.8	1.675	2.584	10.8	20.1
3 2	8 9.30	+18 38.6	1.724	2.554	14.8	20.2

143048 Margaretpenston 1 29.2 206°.26 2°.5/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.36	+22 35.4	2.026	2.822	13.9	20.4
1 2	9 7.57	+23 20.5	1.938	2.819	10.7	20.2
1 12	9 0.26	+24 11.4	1.873	2.815	7.1	19.9
1 22	8 51.00	+25 2.8	1.836	2.810	3.5	19.7
2 1	8 40.76	+25 48.5	1.828	2.805	3.2	19.7
2 11	8 30.73	+26 23.2	1.850	2.800	6.7	19.9
2 21	8 22.04	+26 44.5	1.899	2.794	10.4	20.1
3 2	8 15.59	+26 51.8	1.972	2.788	13.8	20.3

360791 2005 GP_{47} 1 29.2 80°.56 8°.1/ 3.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.50	− 3 58.9	1.697	2.421	18.9	20.4
1 2	9 4.69	− 4 25.8	1.621	2.431	16.1	20.3
1 12	8 58.37	− 4 26.8	1.563	2.442	13.0	20.1
1 22	8 50.18	− 3 59.6	1.528	2.453	10.0	19.9
2 1	8 41.10	− 3 5.0	1.517	2.463	8.1	19.8
2 11	8 32.32	− 1 48.0	1.533	2.474	8.8	19.9
2 21	8 24.95	− 0 16.6	1.575	2.484	11.3	20.1
3 2	8 19.85	+ 1 20.4	1.641	2.495	14.3	20.3

86396 2000 AB_{129} 1 29.2 315°.91 3°.4/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.26	+11 7.7	1.331	2.132	19.6	19.3
1 2	9 7.75	+10 38.9	1.246	2.123	15.7	19.0
1 12	9 0.94	+10 25.6	1.181	2.116	11.1	18.7
1 22	8 51.47	+10 27.6	1.138	2.108	6.1	18.4
2 1	8 40.58	+10 42.5	1.120	2.101	3.5	18.2
2 11	8 29.93	+11 5.8	1.128	2.094	7.6	18.4
2 21	8 21.10	+11 32.3	1.161	2.088	12.7	18.7
3 2	8 15.29	+11 57.2	1.215	2.082	17.4	18.9

400081 2006 SS_{301} 1 29.2 61°.92 5°.0/ 1.8 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.23	+ 1 26.5	1.595	2.345	18.9	20.8
1 2	9 6.61	+ 1 48.5	1.542	2.381	15.4	20.7
1 12	8 59.46	+ 2 35.5	1.508	2.416	11.3	20.5
1 22	8 50.56	+ 3 45.2	1.499	2.452	7.3	20.4
2 1	8 41.01	+ 5 12.3	1.516	2.487	5.0	20.3
2 11	8 32.07	+ 6 48.6	1.562	2.522	6.7	20.5
2 21	8 24.77	+ 8 25.5	1.636	2.556	10.1	20.8
3 2	8 19.87	+ 9 55.8	1.734	2.590	13.5	21.0

121195 1999 NY_{29} 1 29.2 187°.65 1°.2/30.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.23	+13 33.5	2.614	3.376	12.0	20.9
1 2	9 5.95	+13 32.0	2.517	3.375	9.4	20.7
1 12	8 58.81	+13 38.3	2.444	3.374	6.4	20.5
1 22	8 50.28	+13 50.6	2.400	3.372	3.1	20.3
2 1	8 41.08	+14 6.7	2.387	3.370	1.4	20.1
2 11	8 32.05	+14 23.9	2.405	3.366	4.4	20.3
2 21	8 23.99	+14 39.9	2.452	3.363	7.7	20.5
3 2	8 17.56	+14 52.8	2.527	3.359	10.6	20.7

57147 2001 PB_{49} 1 29.2 116°.56 5°.0/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.43	+27 14.9	1.637	2.442	16.2	20.0
1 2	9 11.95	+28 25.2	1.574	2.458	12.6	19.8
1 12	9 3.31	+29 38.1	1.535	2.473	8.7	19.6
1 22	8 52.32	+30 44.3	1.521	2.488	5.5	19.4
2 1	8 40.31	+31 35.1	1.536	2.502	5.7	19.5
2 11	8 28.89	+32 4.9	1.579	2.515	8.9	19.7
2 21	8 19.45	+32 12.9	1.647	2.528	12.6	19.9
3 2	8 12.96	+32 1.4	1.737	2.541	15.9	20.2

397894 2008 US_{230} 1 29.2 136°.70 0°.1/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.94	+16 39.5	1.660	2.452	16.6	22.5
1 2	9 9.81	+16 56.9	1.583	2.460	12.9	22.3
1 12	9 1.82	+17 24.9	1.529	2.469	8.5	22.1
1 22	8 51.69	+17 59.2	1.501	2.477	3.7	21.8
2 1	8 40.56	+18 34.6	1.501	2.485	1.4	21.7
2 11	8 29.86	+19 5.6	1.529	2.492	6.4	22.0
2 21	8 20.85	+19 28.7	1.585	2.498	10.9	22.3
3 2	8 14.47	+19 42.4	1.664	2.504	14.8	22.5

200889 2002 AS_{12} 1 29.2 319°.87 0°.4/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.36	+16 9.5	1.338	2.154	18.6	20.1
1 2	9 6.42	+16 11.8	1.249	2.139	14.7	19.8
1 12	9 0.16	+16 27.1	1.180	2.125	9.9	19.4
1 22	8 51.19	+16 52.3	1.134	2.111	4.4	19.1
2 1	8 40.70	+17 22.0	1.113	2.098	1.6	18.8
2 11	8 30.38	+17 50.2	1.119	2.085	7.5	19.2
2 21	8 21.85	+18 11.9	1.148	2.073	13.0	19.4
3 2	8 16.37	+18 24.2	1.198	2.062	17.8	19.7

325223 2008 GQ_{37} 1 29.2 197°.58 5°.3/25.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.36	+30 58.0	2.150	2.948	13.1	21.4
1 2	9 8.39	+32 7.9	2.069	2.946	10.3	21.2
1 12	9 0.82	+33 17.8	2.014	2.944	7.5	21.0
1 22	8 51.27	+34 20.3	1.985	2.941	5.5	20.9
2 1	8 40.71	+35 8.2	1.986	2.938	6.0	20.9
2 11	8 30.41	+35 36.9	2.015	2.935	8.4	21.0
2 21	8 21.51	+35 45.3	2.070	2.931	11.3	21.2
3 2	8 14.94	+35 34.9	2.148	2.927	14.0	21.4

338175 2002 RD_{116} 1 29.2 139°.91 3°.9/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 19.07	+25 38.0	1.616	2.418	16.6	21.5
1 2	9 13.23	+26 20.7	1.546	2.428	12.9	21.3
1 12	9 4.17	+27 6.5	1.498	2.438	8.7	21.1
1 22	8 52.71	+27 47.9	1.476	2.447	4.8	20.9
2 1	8 40.19	+28 17.2	1.482	2.455	4.6	20.9
2 11	8 28.24	+28 29.5	1.517	2.463	8.3	21.1
2 21	8 18.30	+28 24.0	1.577	2.470	12.3	21.4
3 2	8 11.36	+28 3.0	1.660	2.477	15.9	21.6

262155 2006 SB_{83} 1 29.2 221°.17 3°.3/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.63	+25 41.9	2.205	2.996	13.1	22.2
1 2	9 9.25	+26 27.5	2.109	2.986	10.2	21.9
1 12	9 1.35	+27 16.4	2.037	2.975	6.9	21.7
1 22	8 51.51	+28 2.8	1.993	2.963	3.9	21.5
2 1	8 40.62	+28 40.7	1.979	2.950	3.9	21.5
2 11	8 29.89	+29 5.5	1.995	2.937	6.9	21.7
2 21	8 20.43	+29 15.2	2.039	2.923	10.4	21.8
3 2	8 13.15	+29 10.3	2.107	2.909	13.5	22.0

370688 2004 GD_{28} 1 29.2 187°.91 7°.2/ 5.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.00	−14 33.4	3.579	4.167	11.7	23.9
1 2	9 3.80	−15 7.1	3.474	4.166	10.5	23.8
1 12	8 57.20	−15 24.5	3.389	4.164	9.2	23.7
1 22	8 49.57	−15 23.5	3.328	4.162	8.1	23.6
2 1	8 41.40	−15 3.3	3.294	4.158	7.3	23.5
2 11	8 33.29	−14 25.0	3.288	4.153	7.4	23.5
2 21	8 25.83	−13 31.3	3.309	4.147	8.1	23.6
3 2	8 19.51	−12 26.1	3.357	4.141	9.3	23.6

503476 2016 ET_{158} 1 29.2 50°.57 5°.0/ 2.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.69	− 0 34.4	1.830	2.568	17.3	20.9
1 2	9 3.24	+ 0 3.2	1.742	2.571	14.3	20.7
1 12	8 57.43	+ 1 7.4	1.674	2.575	10.9	20.5
1 22	8 49.82	+ 2 37.5	1.630	2.579	7.3	20.3
2 1	8 41.29	+ 4 28.9	1.614	2.583	5.0	20.1
2 11	8 32.95	+ 6 33.7	1.628	2.587	6.5	20.2
2 21	8 25.84	+ 8 42.1	1.670	2.592	9.9	20.4
3 2	8 20.82	+10 45.1	1.739	2.596	13.4	20.7

279730 1995 MA_{6} 1 29.2 140°.59 3°.0/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.28	+ 8 47.5	1.739	2.506	17.0	21.1
1 2	9 9.10	+ 8 48.8	1.661	2.517	13.6	20.9
1 12	9 1.27	+ 9 6.4	1.604	2.528	9.5	20.7
1 22	8 51.45	+ 9 38.7	1.572	2.539	5.3	20.4
2 1	8 40.69	+10 22.0	1.569	2.548	3.0	20.3
2 11	8 30.31	+11 10.9	1.595	2.557	6.2	20.5
2 21	8 21.45	+12 0.0	1.648	2.565	10.3	20.8
3 2	8 15.02	+12 45.0	1.726	2.573	14.0	21.0

101984 1999 RB_{61} 1 29.2 139°.73 0°.2/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.56	+16 20.6	2.162	2.946	13.5	20.3
1 2	9 5.08	+16 49.8	2.078	2.952	10.5	20.1
1 12	8 58.44	+17 28.1	2.018	2.957	6.9	19.9
1 22	8 50.19	+18 12.0	1.986	2.962	2.9	19.6
2 1	8 41.17	+18 57.0	1.983	2.967	1.2	19.5
2 11	8 32.41	+19 38.5	2.010	2.972	5.2	19.8
2 21	8 24.82	+20 13.0	2.066	2.976	8.9	20.0
3 2	8 19.17	+20 38.8	2.146	2.980	12.2	20.3

376470 2012 JK_{19} 1 29.2 197°.87 1°.4/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.05	+10 39.6	2.437	3.200	12.8	21.0
1 2	9 3.72	+11 6.9	2.340	3.197	10.1	20.8
1 12	8 57.47	+11 46.6	2.266	3.194	6.9	20.6
1 22	8 49.77	+12 36.3	2.220	3.191	3.5	20.4
2 1	8 41.32	+13 32.5	2.205	3.187	1.6	20.2
2 11	8 32.99	+14 30.7	2.220	3.183	4.6	20.4
2 21	8 25.61	+15 26.7	2.264	3.178	8.1	20.7
3 2	8 19.87	+16 17.1	2.335	3.173	11.2	20.8

426268 2012 RR_{5} 1 29.2 142°.64 2°.0/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.08	+ 9 29.3	2.627	3.383	12.1	22.0
1 2	9 2.74	+ 9 41.7	2.538	3.390	9.6	21.8
1 12	8 56.68	+10 5.2	2.474	3.397	6.7	21.6
1 22	8 49.39	+10 38.1	2.437	3.404	3.6	21.4
2 1	8 41.50	+11 17.8	2.430	3.410	2.0	21.3
2 11	8 33.80	+12 0.8	2.454	3.416	4.3	21.5
2 21	8 27.00	+12 43.9	2.507	3.422	7.4	21.7
3 2	8 21.70	+13 23.8	2.587	3.427	10.1	21.9

404524 2013 HH_{111} 1 29.2 15°.96 2°.2/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.06	+20 39.3	1.248	2.076	19.0	21.0
1 2	9 6.96	+21 7.1	1.181	2.079	14.7	20.8
1 12	9 0.40	+21 44.6	1.135	2.083	9.7	20.5
1 22	8 51.21	+22 25.4	1.111	2.089	4.3	20.2
2 1	8 40.80	+23 1.4	1.113	2.095	3.1	20.1
2 11	8 30.95	+23 26.1	1.141	2.102	8.2	20.5
2 21	8 23.22	+23 36.2	1.192	2.110	13.3	20.8
3 2	8 18.69	+23 31.6	1.263	2.119	17.6	21.1

234551 2001 VK_{116} 1 29.2 93°.38 3°.5/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.39	+23 43.6	1.544	2.351	17.0	20.7
1 2	9 11.13	+24 37.8	1.484	2.370	13.0	20.5
1 12	9 2.76	+25 37.3	1.447	2.389	8.6	20.3
1 22	8 52.10	+26 34.2	1.435	2.408	4.5	20.1
2 1	8 40.50	+27 20.3	1.450	2.426	4.2	20.1
2 11	8 29.55	+27 50.0	1.494	2.444	8.1	20.4
2 21	8 20.61	+28 1.7	1.564	2.461	12.2	20.7
3 2	8 14.60	+27 56.7	1.656	2.478	15.7	20.9

105552 2000 RR_{49} 1 29.2 177°.93 7°.2/ 6.1 18

12 23	9 5.38	−13 43.5	3.448	4.054	11.9	20.5
1 2	9 1.09	−14 16.0	3.350	4.056	10.7	20.4
1 12	8 55.46	−14 31.8	3.272	4.057	9.3	20.3
1 22	8 48.84	−14 29.2	3.217	4.058	8.1	20.2
2 1	8 41.73	−14 7.6	3.187	4.059	7.3	20.2
2 11	8 34.71	−13 28.0	3.185	4.058	7.3	20.2
2 21	8 28.33	−12 33.4	3.210	4.058	8.1	20.2
3 2	8 23.08	−11 27.8	3.261	4.057	9.3	20.3

112907 2002 QR_{54} 1 29.2 124°.46 0°.3/29.1 18

12 23	9 9.53	+17 23.6	2.427	3.208	12.3	21.3
1 2	9 4.77	+17 44.0	2.346	3.218	9.5	21.1
1 12	8 58.08	+18 11.2	2.290	3.228	6.2	20.9
1 22	8 50.00	+18 42.2	2.261	3.237	2.6	20.7
2 1	8 41.30	+19 13.2	2.263	3.247	1.1	20.6
2 11	8 32.86	+19 40.9	2.295	3.256	4.7	20.9
2 21	8 25.50	+20 2.7	2.357	3.265	8.1	21.1
3 2	8 19.88	+20 17.4	2.444	3.273	11.0	21.3

213687 2002 TL_{210} 1 29.2 121°.40 3°.0/27.4 18

12 23	9 14.87	+24 21.1	2.044	2.837	13.9	21.3
1 2	9 9.28	+25 6.6	1.975	2.854	10.7	21.1
1 12	9 1.22	+25 55.5	1.930	2.870	7.1	20.9
1 22	8 51.38	+26 41.7	1.913	2.885	3.7	20.8
2 1	8 40.78	+27 19.4	1.926	2.900	3.5	20.8
2 11	8 30.62	+27 44.4	1.968	2.914	6.7	21.0
2 21	8 21.95	+27 55.2	2.038	2.928	10.1	21.2
3 2	8 15.57	+27 52.6	2.132	2.941	13.1	21.5

334048 2001 LT_{16} 1 29.2 128°.44 3°.1/31.2 18

12 23	9 12.25	+ 8 1.1	2.222	2.973	14.2	20.8
1 2	9 6.91	+ 7 49.6	2.143	2.988	11.4	20.6
1 12	8 59.51	+ 7 50.8	2.086	3.003	8.1	20.5
1 22	8 50.62	+ 8 3.7	2.056	3.017	4.8	20.3
2 1	8 41.07	+ 8 26.3	2.055	3.031	3.1	20.2
2 11	8 31.84	+ 8 55.3	2.085	3.044	5.3	20.3
2 21	8 23.79	+ 9 27.0	2.144	3.057	8.5	20.6
3 2	8 17.63	+ 9 58.2	2.228	3.069	11.5	20.8

321777 2010 OT_{79} 1 29.3 321°.07 2°.5/30.9 18

12 23	9 5.79	+ 9 20.1	2.104	2.876	14.2	21.0
1 2	9 2.31	+ 9 24.9	2.008	2.868	11.4	20.8
1 12	8 56.72	+ 9 43.4	1.933	2.860	8.0	20.6
1 22	8 49.51	+10 14.4	1.885	2.852	4.5	20.3
2 1	8 41.46	+10 55.0	1.865	2.845	2.5	20.2
2 11	8 33.54	+11 41.1	1.873	2.837	5.3	20.4
2 21	8 26.68	+12 28.3	1.910	2.830	8.9	20.6
3 2	8 21.65	+13 12.4	1.972	2.824	12.3	20.8

336041 2007 VW_{299} 1 29.3 50°.75 3°.2/27.6 18

12 23	9 13.86	+27 8.3	2.031	2.830	13.8	20.3
1 2	9 8.44	+27 22.3	1.965	2.846	10.6	20.1
1 12	9 0.60	+27 35.9	1.923	2.862	7.1	19.9
1 22	8 51.08	+27 44.3	1.907	2.878	4.0	19.8
2 1	8 40.93	+27 43.3	1.921	2.895	3.7	19.8
2 11	8 31.33	+27 30.5	1.964	2.911	6.6	20.0
2 21	8 23.29	+27 6.1	2.034	2.928	9.9	20.2
3 2	8 17.53	+26 31.7	2.128	2.945	12.9	20.4

190723 2001 OL_{61} 1 29.3 109°.38 2°.8/28.0 18

12 23	9 18.31	+23 27.3	1.565	2.368	17.0	20.3
1 2	9 12.59	+23 53.9	1.498	2.382	13.1	20.1
1 12	9 3.71	+24 25.0	1.454	2.396	8.7	19.9
1 22	8 52.52	+24 53.9	1.435	2.409	4.2	19.7
2 1	8 40.38	+25 14.2	1.444	2.423	3.5	19.7
2 11	8 28.88	+25 21.3	1.481	2.435	7.6	19.9
2 21	8 19.41	+25 14.5	1.545	2.448	11.9	20.2
3 2	8 12.90	+24 55.0	1.631	2.460	15.6	20.5

453397 2009 DM_{32} 1 29.3 330°.23 0°.3/29.1 16

12 23	9 8.16	+16 17.3	1.374	2.190	18.2	21.5
1 2	9 5.37	+16 39.5	1.289	2.180	14.3	21.3
1 12	8 59.40	+17 16.3	1.225	2.170	9.5	20.9
1 22	8 50.86	+18 3.3	1.184	2.161	4.1	20.6
2 1	8 40.94	+18 53.9	1.168	2.152	1.7	20.4
2 11	8 31.24	+19 40.6	1.179	2.144	7.4	20.7
2 21	8 23.28	+20 17.8	1.214	2.137	12.6	21.0
3 2	8 18.23	+20 42.3	1.271	2.131	17.2	21.3

322564 2011 YX_{60} 1 29.3 359°.95 2°.4/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.47	+ 9 41.1	1.541	2.332	17.7	20.8
1 2	9 4.32	+ 9 58.1	1.459	2.331	14.1	20.6
1 12	8 58.41	+10 34.3	1.397	2.331	9.8	20.3
1 22	8 50.34	+11 27.1	1.359	2.331	5.1	20.0
2 1	8 41.17	+12 31.8	1.349	2.331	2.5	19.9
2 11	8 32.25	+13 41.0	1.365	2.331	6.4	20.1
2 21	8 24.86	+14 47.7	1.407	2.332	11.1	20.4
3 2	8 19.97	+15 46.5	1.473	2.334	15.2	20.6

301162 2008 YS_{34} 1 29.3 102°.30 1°.0/29.8 16

12 23	9 15.64	+13 32.0	1.775	2.552	16.3	21.9
1 2	9 9.94	+13 47.1	1.710	2.578	12.7	21.7
1 12	9 1.67	+14 14.4	1.668	2.602	8.5	21.5
1 22	8 51.58	+14 50.2	1.652	2.626	3.9	21.2
2 1	8 40.76	+15 29.9	1.666	2.649	1.5	21.1
2 11	8 30.49	+16 8.3	1.709	2.672	5.7	21.5
2 21	8 21.85	+16 41.6	1.779	2.694	9.9	21.7
3 2	8 15.64	+17 7.5	1.875	2.715	13.4	22.0

396759 2003 UC_{256} 1 29.3 56°.94 3°.5/30.9 18

12 23	9 11.11	+ 9 20.1	1.537	2.321	18.1	20.8
1 2	9 6.97	+ 9 2.0	1.463	2.330	14.5	20.6
1 12	9 0.03	+ 9 0.3	1.410	2.339	10.2	20.3
1 22	8 50.99	+ 9 14.2	1.381	2.348	5.8	20.1
2 1	8 40.98	+ 9 40.7	1.379	2.358	3.5	20.0
2 11	8 31.39	+10 14.9	1.404	2.368	6.6	20.2
2 21	8 23.46	+10 51.7	1.455	2.378	10.9	20.5
3 2	8 18.11	+11 26.4	1.529	2.388	14.9	20.7

279574 2011 DH_{14} 1 29.3 155°.34 0°.6/28.9 18

12 23	9 11.56	+18 42.8	2.106	2.893	13.7	21.6
1 2	9 6.70	+18 54.2	2.020	2.896	10.6	21.4
1 12	8 59.55	+19 12.1	1.959	2.898	7.0	21.2
1 22	8 50.72	+19 33.2	1.924	2.900	3.0	20.9
2 1	8 41.08	+19 53.5	1.919	2.902	1.4	20.8
2 11	8 31.73	+20 9.4	1.944	2.904	5.4	21.1
2 21	8 23.66	+20 18.7	1.997	2.906	9.2	21.3
3 2	8 17.64	+20 20.5	2.074	2.907	12.5	21.5

252466 2001 TC_{255} 1 29.3 328°.16 4°.3/25.4 17

12 23	9 6.14	+30 50.3	2.713	3.513	10.6	20.2
1 2	9 2.34	+31 45.3	2.624	3.502	8.4	20.0
1 12	8 56.62	+32 40.0	2.561	3.492	6.0	19.8
1 22	8 49.45	+33 29.3	2.525	3.482	4.4	19.7
2 1	8 41.55	+34 8.5	2.519	3.473	4.8	19.7
2 11	8 33.79	+34 34.0	2.542	3.464	6.8	19.8
2 21	8 27.00	+34 44.4	2.591	3.455	9.2	20.0
3 2	8 21.88	+34 40.1	2.665	3.446	11.5	20.1

343139 2009 FE_{34} 1 29.3 219°.38 1°.7/30.7 18

12 23	9 5.58	+ 9 53.3	2.623	3.384	12.0	20.7
1 2	9 1.69	+10 13.9	2.526	3.381	9.5	20.5
1 12	8 56.09	+10 46.0	2.452	3.378	6.6	20.3
1 22	8 49.20	+11 27.8	2.407	3.375	3.5	20.1
2 1	8 41.66	+12 16.5	2.391	3.372	1.8	20.0
2 11	8 34.24	+13 8.2	2.405	3.369	4.3	20.1
2 21	8 27.67	+13 59.1	2.450	3.365	7.4	20.3
3 2	8 22.56	+14 46.1	2.520	3.362	10.3	20.5

301855 1995 CY_{1} 1 29.3 334°.89 13°.3/29.1 18

12 23	9 17.38	+ 4 3.2	1.156	1.934	23.2	19.0
1 2	9 13.27	+ 0 42.0	1.065	1.913	20.1	18.7
1 12	9 5.17	− 2 37.2	0.994	1.893	16.7	18.5
1 22	8 53.61	− 5 42.5	0.945	1.874	14.0	18.2
2 1	8 39.90	− 8 19.2	0.920	1.857	13.4	18.1
2 11	8 26.10	−10 16.7	0.919	1.841	15.5	18.2
2 21	8 14.27	−11 31.5	0.940	1.827	19.1	18.3
3 2	8 6.07	−12 8.6	0.978	1.816	22.9	18.5

276935 2004 TY_{200} 1 29.3 14°.36 4°.0/31.7 18

12 23	9 6.67	+ 6 10.4	1.773	2.543	16.6	20.5
1 2	9 3.28	+ 6 3.6	1.690	2.545	13.4	20.2
1 12	8 57.50	+ 6 14.8	1.627	2.547	9.8	20.0
1 22	8 49.90	+ 6 43.4	1.589	2.550	6.1	19.8
2 1	8 41.42	+ 7 26.8	1.578	2.553	4.0	19.7
2 11	8 33.18	+ 8 20.2	1.595	2.557	6.2	19.8
2 21	8 26.24	+ 9 17.6	1.638	2.561	10.0	20.1
3 2	8 21.45	+10 13.6	1.706	2.566	13.5	20.3

256186 2006 VQ_{77} 1 29.3 313°.82 4°.6/26.4 18

12 23	9 9.33	+25 8.5	1.578	2.398	16.1	20.2
1 2	9 6.17	+26 19.5	1.492	2.385	12.5	19.9
1 12	8 59.90	+27 38.4	1.427	2.371	8.6	19.6
1 22	8 51.11	+28 56.7	1.388	2.358	5.2	19.4
2 1	8 40.92	+30 4.7	1.376	2.346	5.5	19.4
2 11	8 30.88	+30 54.5	1.390	2.334	9.2	19.6
2 21	8 22.48	+31 22.2	1.429	2.322	13.4	19.8
3 2	8 16.91	+31 27.9	1.489	2.311	17.2	20.0

351571 2005 UA_{244} 1 29.3 124°.50 2°.3/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.12	+21 45.5	1.639	2.438	16.5	21.6
1 2	9 11.58	+22 18.5	1.569	2.451	12.7	21.4
1 12	9 3.04	+22 58.1	1.521	2.463	8.4	21.1
1 22	8 52.28	+23 37.7	1.500	2.475	3.9	20.9
2 1	8 40.55	+24 10.9	1.507	2.487	3.0	20.9
2 11	8 29.35	+24 32.4	1.542	2.498	7.2	21.2
2 21	8 20.01	+24 40.4	1.604	2.508	11.5	21.4
3 2	8 13.47	+24 35.3	1.690	2.518	15.2	21.7

122784 2000 SO_{87} 1 29.3 161°.96 4°.2/ 1.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.06	+ 3 29.8	2.024	2.764	15.7	20.5
1 2	9 6.36	+ 3 38.3	1.936	2.771	12.9	20.3
1 12	8 59.38	+ 4 5.7	1.869	2.777	9.5	20.1
1 22	8 50.69	+ 4 51.3	1.827	2.781	6.1	19.9
2 1	8 41.14	+ 5 52.3	1.815	2.786	4.2	19.8
2 11	8 31.80	+ 7 3.5	1.831	2.789	6.0	19.9
2 21	8 23.66	+ 8 18.6	1.877	2.792	9.4	20.1
3 2	8 17.52	+ 9 31.9	1.948	2.794	12.7	20.3

105621 2000 RG_{105} 1 29.3 156°.68 18°.9/ 9.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.77	−19 23.7	1.310	1.964	26.5	19.2
1 2	9 8.36	−21 34.4	1.242	1.966	24.6	19.0
1 12	9 1.52	−23 8.6	1.187	1.968	22.5	18.8
1 22	8 51.87	−23 54.9	1.145	1.969	20.6	18.7
2 1	8 40.65	−23 44.9	1.120	1.971	19.3	18.6
2 11	8 29.60	−22 37.6	1.114	1.972	18.9	18.6
2 21	8 20.41	−20 40.8	1.126	1.973	19.7	18.6
3 2	8 14.37	−18 8.9	1.156	1.974	21.3	18.7

296795 2009 VY_{34} 1 29.3 199°.61 1°.4/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.15	+12 55.0	2.228	3.000	13.5	21.1
1 2	9 5.52	+12 58.1	2.135	2.998	10.7	20.9
1 12	8 58.76	+13 11.3	2.064	2.996	7.3	20.7
1 22	8 50.41	+13 32.6	2.021	2.993	3.6	20.4
2 1	8 41.26	+13 59.1	2.007	2.990	1.6	20.3
2 11	8 32.29	+14 27.3	2.023	2.987	5.0	20.5
2 21	8 24.43	+14 53.9	2.068	2.983	8.7	20.7
3 2	8 18.42	+15 16.4	2.139	2.979	11.9	20.9

472740 2015 FQ_{94} 1 29.3 264°.60 1°.1/28.6 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.74	+21 22.4	2.691	3.472	11.2	22.3
1 2	9 5.75	+21 29.4	2.581	3.454	8.7	22.1
1 12	8 58.82	+21 39.6	2.496	3.435	5.7	21.9
1 22	8 50.42	+21 50.2	2.440	3.416	2.5	21.7
2 1	8 41.25	+21 58.2	2.414	3.396	1.6	21.6
2 11	8 32.18	+22 1.0	2.420	3.376	4.8	21.8
2 21	8 24.03	+21 57.1	2.454	3.356	8.1	21.9
3 2	8 17.51	+21 46.2	2.515	3.336	11.0	22.1

266226 2006 WF_{205} 1 29.3 236°.01 5°.2/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.90	+29 9.0	2.099	2.899	13.3	20.9
1 2	9 8.26	+30 31.9	2.008	2.887	10.5	20.7
1 12	9 0.94	+31 57.9	1.942	2.876	7.5	20.5
1 22	8 51.48	+33 19.2	1.904	2.863	5.4	20.3
2 1	8 40.82	+34 27.5	1.895	2.851	5.9	20.3
2 11	8 30.25	+35 16.7	1.915	2.838	8.6	20.5
2 21	8 20.99	+35 44.2	1.961	2.824	11.8	20.6
3 2	8 14.06	+35 50.9	2.030	2.810	14.7	20.8

133426 2003 SB_{196} 1 29.3 220°.70 4°.8/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.31	+31 18.7	2.174	2.970	13.0	19.8
1 2	9 9.00	+31 55.6	2.093	2.969	10.3	19.6
1 12	9 1.16	+32 30.4	2.036	2.967	7.4	19.4
1 22	8 51.45	+32 57.0	2.006	2.965	5.1	19.3
2 1	8 40.89	+33 9.9	2.004	2.964	5.3	19.3
2 11	8 30.69	+33 5.9	2.032	2.962	7.7	19.4
2 21	8 21.95	+32 45.1	2.087	2.960	10.7	19.6
3 2	8 15.52	+32 9.5	2.165	2.958	13.5	19.8

362162 2009 EL_{1} 1 29.3 272°.72 15°.2/ 9.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 28.82	+54 39.6	1.892	2.643	16.4	20.7
1 2	9 24.61	+58 12.2	1.829	2.617	15.4	20.5
1 12	9 14.67	+61 33.2	1.789	2.592	15.2	20.5
1 22	8 58.66	+64 24.5	1.775	2.565	15.8	20.5
2 1	8 37.72	+66 29.6	1.783	2.539	17.1	20.5
2 11	8 15.10	+67 39.9	1.810	2.511	18.7	20.5
2 21	7 55.08	+67 57.6	1.854	2.483	20.5	20.6
3 2	7 41.17	+67 33.2	1.909	2.455	22.0	20.7

243737 2000 OU_{7} 1 29.3 139°.05 1°.3/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.84	+11 48.3	3.024	3.779	10.7	20.9
1 2	9 3.07	+11 53.5	2.938	3.791	8.4	20.7
1 12	8 56.80	+12 6.7	2.876	3.802	5.7	20.6
1 22	8 49.47	+12 26.2	2.844	3.813	2.9	20.4
2 1	8 41.65	+12 50.1	2.842	3.824	1.4	20.3
2 11	8 34.03	+13 15.6	2.872	3.834	3.8	20.5
2 21	8 27.23	+13 40.6	2.931	3.843	6.5	20.7
3 2	8 21.76	+14 3.1	3.019	3.852	9.0	20.8

218372 2004 JZ_{25} 1 29.3 123°.06 4°.6/ 1.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.92	+ 3 25.9	2.253	2.985	14.6	20.5
1 2	9 5.89	+ 3 4.4	2.172	3.000	11.9	20.3
1 12	8 58.87	+ 2 58.1	2.114	3.015	9.0	20.1
1 22	8 50.41	+ 3 7.2	2.082	3.029	6.1	20.0
2 1	8 41.30	+ 3 30.3	2.078	3.043	4.6	19.9
2 11	8 32.47	+ 4 4.3	2.105	3.056	5.9	20.0
2 21	8 24.77	+ 4 45.1	2.159	3.069	8.6	20.2
3 2	8 18.87	+ 5 28.6	2.240	3.081	11.4	20.4

370621 2003 YF_{28} 1 29.3 49°.76 2°.3/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.69	+21 10.3	1.753	2.559	15.3	20.5
1 2	9 6.29	+21 59.5	1.699	2.585	11.7	20.3
1 12	8 59.35	+22 55.0	1.668	2.612	7.6	20.1
1 22	8 50.64	+23 50.8	1.663	2.639	3.5	20.0
2 1	8 41.24	+24 40.2	1.687	2.666	2.9	20.0
2 11	8 32.40	+25 18.2	1.739	2.693	6.6	20.3
2 21	8 25.18	+25 42.5	1.818	2.721	10.4	20.5
3 2	8 20.32	+25 52.8	1.920	2.749	13.6	20.8

169126 2001 PP_{30} 1 29.3 99°.29 4°.3/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.17	+30 6.7	2.338	3.134	12.3	20.4
1 2	9 7.08	+30 51.8	2.267	3.144	9.6	20.2
1 12	8 59.75	+31 35.7	2.221	3.154	6.7	20.0
1 22	8 50.81	+32 12.9	2.202	3.163	4.6	19.9
2 1	8 41.17	+32 38.1	2.213	3.173	4.8	19.9
2 11	8 31.90	+32 48.3	2.253	3.182	7.1	20.1
2 21	8 23.96	+32 43.0	2.320	3.192	9.8	20.3
3 2	8 18.07	+32 23.6	2.410	3.201	12.4	20.5

449641 2014 KY_{28} 1 29.3 100°.25 1°.6/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.90	+11 25.7	1.616	2.399	17.4	21.6
1 2	9 8.22	+11 47.4	1.547	2.416	13.6	21.3
1 12	9 0.78	+12 25.3	1.499	2.432	9.3	21.1
1 22	8 51.33	+13 15.8	1.476	2.448	4.5	20.9
2 1	8 40.97	+14 13.4	1.481	2.464	1.8	20.7
2 11	8 31.07	+15 11.4	1.515	2.479	6.1	21.1
2 21	8 22.82	+16 4.4	1.575	2.494	10.6	21.3
3 2	8 17.11	+16 48.5	1.660	2.509	14.4	21.6

370472 2003 FE_{35} 1 29.3 251°.08 2°.6/27.8 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.31	+23 33.7	1.926	2.727	14.3	21.8
1 2	9 7.68	+24 3.7	1.841	2.723	11.1	21.6
1 12	9 0.44	+24 38.0	1.778	2.720	7.4	21.4
1 22	8 51.21	+25 11.4	1.742	2.716	3.7	21.1
2 1	8 41.02	+25 38.3	1.735	2.713	3.2	21.1
2 11	8 31.10	+25 54.2	1.757	2.709	6.8	21.3
2 21	8 22.63	+25 57.4	1.805	2.705	10.6	21.5
3 2	8 16.50	+25 47.9	1.878	2.702	14.0	21.7

487395 2014 QG_{322} 1 29.3 248°.37 0°.5/29.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.54	+14 47.4	1.843	2.629	15.4	22.1
1 2	9 7.24	+15 7.2	1.743	2.617	12.1	21.8
1 12	9 0.29	+15 39.3	1.666	2.604	8.2	21.6
1 22	8 51.22	+16 20.5	1.615	2.590	3.7	21.3
2 1	8 40.99	+17 6.1	1.592	2.576	1.3	21.0
2 11	8 30.83	+17 50.6	1.598	2.562	6.0	21.3
2 21	8 21.97	+18 29.3	1.632	2.547	10.5	21.6
3 2	8 15.42	+18 59.2	1.690	2.532	14.5	21.8

166154 2002 EB_{28} 1 29.3 359°.99 5°.0/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.90	+27 4.6	1.378	2.201	17.8	19.7
1 2	9 9.94	+27 48.0	1.306	2.199	13.9	19.5
1 12	9 2.44	+28 34.4	1.255	2.199	9.6	19.2
1 22	8 52.20	+29 15.1	1.228	2.199	5.7	19.0
2 1	8 40.65	+29 41.2	1.227	2.199	5.7	19.0
2 11	8 29.63	+29 47.1	1.252	2.199	9.5	19.2
2 21	8 20.75	+29 32.1	1.301	2.201	13.9	19.5
3 2	8 15.16	+28 58.9	1.370	2.202	17.8	19.7

39913 1998 FV_{40} 1 29.3 269°.10 1°.3/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.92	+18 58.6	1.697	2.498	15.9	19.5
1 2	9 7.84	+19 28.6	1.601	2.484	12.4	19.2
1 12	9 0.85	+20 9.0	1.526	2.469	8.3	19.0
1 22	8 51.52	+20 54.7	1.477	2.454	3.6	18.6
2 1	8 40.87	+21 39.6	1.456	2.439	2.2	18.5
2 11	8 30.32	+22 17.4	1.463	2.423	7.0	18.8
2 21	8 21.24	+22 43.9	1.497	2.408	11.6	19.0
3 2	8 14.73	+22 57.7	1.554	2.392	15.7	19.2

414191 2008 CS_{174} 1 29.3 225°.46 3°.8/31.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.25	+ 4 59.3	2.160	2.906	14.7	21.2
1 2	9 4.98	+ 5 1.5	2.057	2.897	12.0	21.0
1 12	8 58.53	+ 5 20.2	1.976	2.887	8.9	20.8
1 22	8 50.39	+ 5 55.0	1.921	2.878	5.6	20.6
2 1	8 41.33	+ 6 43.8	1.894	2.867	3.8	20.4
2 11	8 32.33	+ 7 42.3	1.897	2.856	5.7	20.5
2 21	8 24.37	+ 8 45.4	1.929	2.845	9.1	20.7
3 2	8 18.25	+ 9 48.0	1.986	2.833	12.5	20.9

241304 2007 UE_{113} 1 29.3 100°.81 2°.8/27.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.69	+24 27.0	2.417	3.213	11.9	20.6
1 2	9 4.33	+25 20.6	2.341	3.221	9.1	20.4
1 12	8 57.94	+26 17.6	2.289	3.229	6.1	20.2
1 22	8 50.06	+27 13.1	2.266	3.237	3.4	20.1
2 1	8 41.48	+28 1.7	2.272	3.244	3.3	20.1
2 11	8 33.15	+28 39.3	2.308	3.252	6.0	20.2
2 21	8 25.93	+29 3.9	2.372	3.259	9.0	20.4
3 2	8 20.52	+29 15.3	2.461	3.267	11.7	20.6

253250 2003 AJ_{43} 1 29.3 343°.31 5°.5/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.85	+26 49.0	1.451	2.278	16.8	19.7
1 2	9 6.01	+28 2.3	1.374	2.271	13.2	19.4
1 12	8 59.88	+29 21.5	1.320	2.264	9.1	19.2
1 22	8 51.15	+30 37.0	1.289	2.258	5.9	19.0
2 1	8 41.04	+31 38.6	1.285	2.252	6.3	19.0
2 11	8 31.25	+32 18.4	1.307	2.248	9.9	19.2
2 21	8 23.32	+32 33.8	1.351	2.244	14.1	19.4
3 2	8 18.41	+32 26.1	1.417	2.241	17.8	19.6

59132 1998 XM_{39} 1 29.3 56°.03 4°.3/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.27	+24 25.8	1.509	2.326	16.8	18.5
1 2	9 8.12	+25 40.9	1.454	2.345	12.9	18.3
1 12	9 0.89	+27 1.7	1.420	2.364	8.6	18.1
1 22	8 51.42	+28 18.8	1.413	2.384	5.0	18.0
2 1	8 41.00	+29 23.1	1.432	2.404	5.1	18.0
2 11	8 31.18	+30 8.0	1.479	2.424	8.6	18.3
2 21	8 23.29	+30 31.6	1.551	2.444	12.5	18.5
3 2	8 18.24	+30 35.1	1.645	2.465	15.9	18.8

399498 2002 TN_{203} 1 29.3 113°.58 2°.0/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.25	+ 9 1.4	2.197	2.952	14.2	22.9
1 2	9 6.94	+ 9 26.1	2.125	2.976	11.2	22.7
1 12	8 59.57	+10 4.6	2.076	3.000	7.8	22.5
1 22	8 50.73	+10 54.2	2.055	3.023	4.1	22.3
2 1	8 41.27	+11 50.9	2.064	3.045	2.1	22.2
2 11	8 32.15	+12 49.8	2.103	3.066	4.9	22.5
2 21	8 24.26	+13 46.4	2.172	3.086	8.4	22.7
3 2	8 18.27	+14 37.2	2.268	3.106	11.4	22.9

134855 2000 OK_{21} 1 29.3 124°.40 1°.0/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.49	+15 6.7	2.899	3.655	11.1	20.0
1 2	9 7.37	+14 45.3	2.815	3.670	8.7	19.9
1 12	8 59.60	+14 29.0	2.756	3.685	5.8	19.7
1 22	8 50.68	+14 16.4	2.727	3.699	2.8	19.5
2 1	8 41.30	+14 6.3	2.730	3.713	1.2	19.4
2 11	8 32.21	+13 57.1	2.766	3.727	4.0	19.6
2 21	8 24.10	+13 47.7	2.832	3.740	6.9	19.8
3 2	8 17.53	+13 37.2	2.925	3.752	9.5	20.0

275466 2011 DL_{4} 1 29.3 286°.51 1°.8/28.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.18	+22 2.9	2.024	2.819	13.9	20.9
1 2	9 7.66	+22 19.1	1.915	2.795	10.9	20.6
1 12	9 0.54	+22 40.4	1.830	2.771	7.2	20.4
1 22	8 51.35	+23 2.5	1.771	2.747	3.3	20.1
2 1	8 40.98	+23 20.5	1.742	2.723	2.5	20.0
2 11	8 30.66	+23 30.4	1.742	2.698	6.4	20.2
2 21	8 21.57	+23 29.8	1.769	2.673	10.5	20.3
3 2	8 14.70	+23 18.5	1.820	2.649	14.2	20.5

425785 2011 CM_{72} 1 29.3 333°.99 1°.8/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.42	+10 13.3	1.667	2.459	16.6	20.6
1 2	9 2.67	+10 42.9	1.576	2.449	13.2	20.3
1 12	8 57.34	+11 31.3	1.505	2.440	9.1	20.0
1 22	8 49.97	+12 35.8	1.460	2.432	4.6	19.8
2 1	8 41.50	+13 51.1	1.441	2.425	2.0	19.6
2 11	8 33.16	+15 9.9	1.451	2.418	6.1	19.8
2 21	8 26.14	+16 25.1	1.487	2.411	10.7	20.0
3 2	8 21.42	+17 30.9	1.546	2.405	14.7	20.3

345067 2005 JY_{15} 1 29.3 301°.83 5°.1/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.31	+30 35.1	2.169	2.973	12.8	20.4
1 2	9 6.07	+31 36.7	2.085	2.966	10.1	20.2
1 12	8 59.37	+32 38.6	2.026	2.959	7.3	20.0
1 22	8 50.77	+33 33.8	1.993	2.952	5.3	19.9
2 1	8 41.22	+34 16.0	1.989	2.945	5.7	19.9
2 11	8 31.89	+34 40.5	2.014	2.939	8.1	20.0
2 21	8 23.87	+34 46.1	2.064	2.932	11.0	20.2
3 2	8 18.05	+34 33.9	2.137	2.926	13.8	20.4

204168 2004 BW_{31} 1 29.3 27°.69 0°.9/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.58	+19 29.5	1.852	2.653	14.8	20.2
1 2	9 5.46	+19 40.8	1.778	2.661	11.4	20.0
1 12	8 58.88	+19 58.7	1.726	2.668	7.5	19.8
1 22	8 50.51	+20 19.6	1.700	2.677	3.2	19.5
2 1	8 41.35	+20 38.9	1.702	2.685	1.7	19.4
2 11	8 32.58	+20 52.8	1.733	2.694	5.9	19.7
2 21	8 25.25	+20 59.2	1.791	2.704	9.9	20.0
3 2	8 20.16	+20 57.0	1.873	2.714	13.3	20.2

502866 2015 DU_{202} 1 29.3 288°.72 4°.2/ 1.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.79	+ 4 34.3	2.320	3.064	13.9	21.8
1 2	9 2.87	+ 4 14.7	2.222	3.059	11.4	21.6
1 12	8 57.01	+ 4 9.1	2.147	3.054	8.5	21.4
1 22	8 49.70	+ 4 17.9	2.097	3.049	5.7	21.2
2 1	8 41.64	+ 4 39.8	2.076	3.044	4.2	21.1
2 11	8 33.71	+ 5 12.3	2.084	3.039	5.7	21.2
2 21	8 26.73	+ 5 51.4	2.120	3.034	8.5	21.3
3 2	8 21.42	+ 6 33.1	2.181	3.029	11.5	21.5

495232 2013 HS_{12} 1 29.3 277°.88 0°.2/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.09	+15 40.8	1.638	2.437	16.5	21.7
1 2	9 6.43	+16 13.1	1.546	2.427	12.9	21.4
1 12	8 59.92	+16 59.3	1.476	2.417	8.6	21.2
1 22	8 51.13	+17 55.2	1.431	2.407	3.7	20.8
2 1	8 41.08	+18 54.6	1.413	2.397	1.5	20.6
2 11	8 31.17	+19 50.4	1.424	2.387	6.6	21.0
2 21	8 22.73	+20 37.2	1.461	2.377	11.4	21.2
3 2	8 16.84	+21 11.8	1.521	2.367	15.6	21.4

156253 2001 UC_{217} 1 29.3 196°.83 3°.9/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.75	+25 3.7	1.822	2.621	15.1	21.3
1 2	9 10.62	+26 2.3	1.737	2.619	11.7	21.1
1 12	9 2.56	+27 6.1	1.676	2.616	7.9	20.9
1 22	8 52.22	+28 7.8	1.642	2.613	4.5	20.7
2 1	8 40.69	+28 59.4	1.637	2.608	4.5	20.6
2 11	8 29.42	+29 34.9	1.660	2.604	8.0	20.8
2 21	8 19.74	+29 51.8	1.710	2.598	11.9	21.1
3 2	8 12.69	+29 51.1	1.783	2.592	15.3	21.3

352747 2008 TW_{104} 1 29.3 341°.10 1°.0/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.49	+18 43.3	1.194	2.022	19.6	20.8
1 2	9 6.88	+18 54.9	1.116	2.013	15.4	20.5
1 12	9 0.68	+19 18.4	1.057	2.005	10.2	20.2
1 22	8 51.57	+19 49.0	1.020	1.998	4.4	19.8
2 1	8 40.92	+20 19.5	1.009	1.992	2.2	19.7
2 11	8 30.63	+20 43.1	1.021	1.987	8.2	20.0
2 21	8 22.42	+20 55.4	1.057	1.983	13.8	20.3
3 2	8 17.56	+20 54.9	1.113	1.980	18.7	20.6

222255 2000 QJ_{67} 1 29.3 154°.65 1°.6/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.97	+21 29.9	2.690	3.469	11.3	22.2
1 2	9 6.56	+22 10.8	2.607	3.479	8.7	22.1
1 12	8 59.27	+22 56.0	2.551	3.489	5.7	21.9
1 22	8 50.62	+23 41.4	2.523	3.498	2.6	21.7
2 1	8 41.33	+24 22.9	2.527	3.506	2.2	21.7
2 11	8 32.27	+24 56.9	2.562	3.513	5.0	21.9
2 21	8 24.23	+25 21.2	2.627	3.520	8.0	22.1
3 2	8 17.86	+25 35.3	2.718	3.526	10.6	22.3

122452 2000 QO_{139} 1 29.3 92°.21 4°.5/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.15	+27 2.8	1.568	2.376	16.7	19.0
1 2	9 11.86	+27 49.1	1.504	2.390	12.9	18.8
1 12	9 3.35	+28 37.2	1.463	2.403	8.8	18.6
1 22	8 52.50	+29 19.0	1.447	2.416	5.2	18.4
2 1	8 40.65	+29 46.9	1.458	2.429	5.2	18.5
2 11	8 29.44	+29 56.1	1.497	2.442	8.6	18.7
2 21	8 20.29	+29 46.4	1.562	2.454	12.5	19.0
3 2	8 14.13	+29 20.5	1.649	2.466	16.0	19.2

152674 1998 HB_{50} 1 29.3 155°.07 4°.0/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.16	+28 43.0	2.382	3.174	12.2	20.3
1 2	9 7.87	+29 36.7	2.305	3.181	9.5	20.2
1 12	9 0.33	+30 30.8	2.253	3.187	6.6	20.0
1 22	8 51.13	+31 19.4	2.229	3.192	4.3	19.8
2 1	8 41.16	+31 57.0	2.236	3.198	4.5	19.9
2 11	8 31.48	+32 19.9	2.271	3.202	6.9	20.0
2 21	8 23.06	+32 26.9	2.335	3.207	9.8	20.2
3 2	8 16.67	+32 19.2	2.422	3.211	12.4	20.4

431481 2007 TP_{28} 1 29.3 94°.18 4°.3/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.57	+29 54.6	2.327	3.125	12.3	21.1
1 2	9 6.67	+30 42.1	2.255	3.133	9.6	21.0
1 12	8 59.54	+31 28.8	2.207	3.140	6.7	20.8
1 22	8 50.78	+32 8.9	2.187	3.148	4.6	20.7
2 1	8 41.30	+32 37.3	2.196	3.156	4.8	20.7
2 11	8 32.16	+32 50.6	2.234	3.164	7.1	20.9
2 21	8 24.32	+32 48.3	2.299	3.171	9.9	21.1
3 2	8 18.53	+32 31.5	2.388	3.179	12.4	21.2

29215 1991 UE 1 29.3 24°.72 1°.4/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.44	+19 41.8	1.209	2.034	19.7	18.2
1 2	9 8.93	+19 56.4	1.143	2.039	15.3	18.0
1 12	9 1.82	+20 21.4	1.097	2.044	10.1	17.7
1 22	8 51.97	+20 50.8	1.073	2.051	4.3	17.4
2 1	8 40.86	+21 17.4	1.075	2.058	2.5	17.3
2 11	8 30.36	+21 35.0	1.101	2.065	8.0	17.6
2 21	8 22.09	+21 40.5	1.152	2.073	13.3	18.0
3 2	8 17.14	+21 33.7	1.223	2.082	17.8	18.3

502702 2015 DW_{18} 1 29.3 296°.95 1°.8/28.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.98	+20 51.5	2.193	2.990	12.9	21.5
1 2	9 4.07	+21 31.9	2.101	2.982	10.0	21.3
1 12	8 57.96	+22 19.0	2.033	2.975	6.6	21.1
1 22	8 50.17	+23 8.4	1.992	2.968	3.0	20.9
2 1	8 41.51	+23 54.8	1.981	2.961	2.4	20.8
2 11	8 33.01	+24 33.5	1.999	2.954	5.9	21.0
2 21	8 25.63	+25 1.6	2.045	2.947	9.5	21.2
3 2	8 20.17	+25 17.8	2.115	2.941	12.6	21.4

335933 2007 TV_{31} 1 29.3 75°.53 0°.7/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.03	+16 4.2	2.267	3.049	13.0	20.8
1 2	9 4.51	+17 8.4	2.202	3.075	10.0	20.6
1 12	8 58.01	+18 22.2	2.162	3.102	6.5	20.4
1 22	8 50.09	+19 40.5	2.151	3.128	2.7	20.2
2 1	8 41.57	+20 57.5	2.170	3.153	1.5	20.2
2 11	8 33.38	+22 7.7	2.221	3.179	5.1	20.5
2 21	8 26.34	+23 7.4	2.300	3.204	8.5	20.7
3 2	8 21.11	+23 54.5	2.405	3.229	11.3	21.0

206848 2004 EY_{112} 1 29.3 53°.06 1°.6/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.08	+10 18.7	2.249	3.020	13.5	20.6
1 2	9 2.37	+10 46.5	2.162	3.024	10.6	20.4
1 12	8 56.70	+11 27.6	2.099	3.028	7.3	20.2
1 22	8 49.58	+12 19.6	2.062	3.033	3.7	20.0
2 1	8 41.75	+13 18.6	2.055	3.037	1.7	19.9
2 11	8 34.10	+14 19.8	2.077	3.042	4.8	20.1
2 21	8 27.48	+15 18.5	2.128	3.046	8.3	20.3
3 2	8 22.58	+16 11.0	2.205	3.051	11.4	20.5

370006 1999 TF_{295} 1 29.3 125°.01 3°.5/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.88	+27 0.3	2.114	2.910	13.4	21.0
1 2	9 8.61	+27 32.1	2.037	2.916	10.4	20.8
1 12	9 0.89	+28 4.8	1.984	2.922	7.0	20.6
1 22	8 51.39	+28 32.7	1.959	2.928	4.1	20.5
2 1	8 41.09	+28 51.0	1.962	2.934	4.0	20.5
2 11	8 31.19	+28 56.0	1.996	2.939	6.8	20.7
2 21	8 22.72	+28 47.2	2.056	2.944	10.1	20.9
3 2	8 16.49	+28 25.8	2.141	2.949	13.1	21.1

109310 2001 QN_{133} 1 29.3 236°.05 3°.7/31.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.67	+ 6 45.3	2.163	2.914	14.6	20.4
1 2	9 6.11	+ 6 30.8	2.058	2.902	11.9	20.2
1 12	8 59.31	+ 6 30.1	1.974	2.889	8.7	20.0
1 22	8 50.78	+ 6 43.0	1.917	2.876	5.4	19.7
2 1	8 41.29	+ 7 8.3	1.888	2.862	3.7	19.6
2 11	8 31.85	+ 7 42.6	1.889	2.848	5.8	19.7
2 21	8 23.46	+ 8 21.9	1.919	2.833	9.2	19.9
3 2	8 16.94	+ 9 2.2	1.973	2.818	12.6	20.1

461789 2005 VL_{48} 1 29.3 189°.41 0°.6/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.67	+13 32.9	2.236	3.011	13.4	22.2
1 2	9 5.21	+14 3.4	2.144	3.010	10.5	22.0
1 12	8 58.63	+14 45.2	2.074	3.009	7.0	21.8
1 22	8 50.44	+15 35.4	2.033	3.007	3.2	21.5
2 1	8 41.43	+16 29.6	2.021	3.005	1.1	21.4
2 11	8 32.57	+17 22.9	2.040	3.003	5.0	21.7
2 21	8 24.79	+18 11.3	2.087	3.000	8.7	21.9
3 2	8 18.86	+18 51.8	2.161	2.997	12.0	22.1

340587 2006 PW_{21} 1 29.3 190°.52 0°.8/29.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.46	+14 14.7	2.724	3.492	11.4	21.3
1 2	9 3.85	+14 21.1	2.628	3.491	8.9	21.1
1 12	8 57.51	+14 35.1	2.557	3.489	6.0	20.9
1 22	8 49.89	+14 54.7	2.514	3.488	2.8	20.7
2 1	8 41.66	+15 17.4	2.502	3.486	1.1	20.6
2 11	8 33.58	+15 40.4	2.521	3.483	4.2	20.8
2 21	8 26.38	+16 1.3	2.569	3.481	7.3	21.0
3 2	8 20.68	+16 18.3	2.644	3.478	10.1	21.2

435967 2009 DT_{66} 1 29.3 330°.57 1°.1/30.1 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.67	+12 58.5	2.253	3.032	13.2	21.7
1 2	9 2.87	+13 10.0	2.161	3.028	10.4	21.5
1 12	8 57.07	+13 32.1	2.092	3.025	7.0	21.3
1 22	8 49.76	+14 2.5	2.049	3.022	3.4	21.1
2 1	8 41.70	+14 38.1	2.036	3.019	1.4	20.9
2 11	8 33.80	+15 14.9	2.052	3.016	4.8	21.2
2 21	8 26.94	+15 49.6	2.096	3.014	8.4	21.4
3 2	8 21.82	+16 19.1	2.166	3.011	11.6	21.6

206836 2004 ET_{61} 1 29.3 249°.94 1°.9/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.67	+10 5.5	2.536	3.297	12.4	20.9
1 2	9 2.66	+10 13.3	2.434	3.289	9.8	20.8
1 12	8 56.84	+10 32.1	2.355	3.281	6.9	20.6
1 22	8 49.65	+11 0.7	2.304	3.272	3.7	20.3
2 1	8 41.74	+11 36.5	2.282	3.263	2.0	20.2
2 11	8 33.93	+12 16.1	2.291	3.254	4.5	20.4
2 21	8 26.99	+12 56.2	2.329	3.245	7.8	20.5
3 2	8 21.59	+13 33.5	2.393	3.236	10.7	20.7

507136 2009 VW_{71} 1 29.3 233°.88 2°.4/30.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.17	+10 3.6	2.288	3.048	13.6	21.6
1 2	9 5.58	+ 9 55.8	2.185	3.038	10.9	21.4
1 12	8 58.88	+ 9 59.2	2.104	3.028	7.7	21.2
1 22	8 50.57	+10 12.8	2.051	3.017	4.3	20.9
2 1	8 41.41	+10 34.5	2.026	3.006	2.5	20.8
2 11	8 32.33	+11 1.4	2.032	2.994	5.1	20.9
2 21	8 24.27	+11 30.0	2.067	2.982	8.6	21.1
3 2	8 18.00	+11 57.3	2.127	2.970	11.9	21.3

257285 2009 HV_{21} 1 29.3 268°.45 6°.5/25.5 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.89	+32 29.9	1.824	2.627	14.9	21.2
1 2	9 11.95	+33 32.1	1.729	2.606	12.0	21.0
1 12	9 3.74	+34 34.1	1.657	2.586	8.9	20.8
1 22	8 52.87	+35 26.9	1.610	2.565	6.7	20.6
2 1	8 40.51	+36 1.4	1.591	2.543	7.2	20.6
2 11	8 28.28	+36 11.8	1.600	2.522	10.0	20.7
2 21	8 17.74	+35 57.1	1.633	2.499	13.6	20.8
3 2	8 10.11	+35 20.4	1.688	2.477	16.9	21.0

427315 2014 WB_{291} 1 29.3 138°.17 3°.6/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.63	+24 21.7	2.072	2.871	13.5	21.0
1 2	9 7.04	+25 41.5	1.997	2.878	10.4	20.8
1 12	8 59.99	+27 6.8	1.946	2.886	7.0	20.6
1 22	8 51.08	+28 30.4	1.923	2.893	4.1	20.4
2 1	8 41.24	+29 44.9	1.930	2.899	4.3	20.4
2 11	8 31.65	+30 44.1	1.967	2.906	7.3	20.6
2 21	8 23.38	+31 25.2	2.031	2.912	10.6	20.8
3 2	8 17.31	+31 48.2	2.118	2.917	13.5	21.0

390819 2004 LE_{2} 1 29.3 177°.02 2°.7/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.84	+24 6.6	2.392	3.172	12.5	23.1
1 2	9 10.68	+24 58.0	2.305	3.176	9.7	23.0
1 12	9 2.21	+25 53.1	2.243	3.179	6.5	22.8
1 22	8 51.99	+26 46.5	2.210	3.181	3.4	22.6
2 1	8 40.91	+27 32.6	2.208	3.182	3.3	22.6
2 11	8 30.04	+28 6.8	2.238	3.181	6.2	22.7
2 21	8 20.40	+28 27.3	2.297	3.179	9.4	22.9
3 2	8 12.80	+28 34.2	2.381	3.177	12.3	23.1

433816 2015 BZ_{159} 1 29.3 244°.51 0°.6/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.89	+15 46.7	2.263	3.043	13.1	20.9
1 2	9 5.33	+15 45.6	2.171	3.040	10.2	20.7
1 12	8 58.67	+15 52.1	2.102	3.038	6.9	20.4
1 22	8 50.46	+16 4.0	2.060	3.035	3.1	20.2
2 1	8 41.48	+16 18.3	2.048	3.032	1.1	20.0
2 11	8 32.71	+16 32.2	2.066	3.030	4.9	20.3
2 21	8 25.05	+16 43.1	2.113	3.027	8.6	20.5
3 2	8 19.23	+16 49.5	2.185	3.024	11.8	20.7

147880 2006 QV_{113} 1 29.3 121°.11 6°.6/25.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 20.63	+36 53.1	2.245	3.027	13.1	19.9
1 2	9 13.80	+37 58.9	2.188	3.048	10.6	19.8
1 12	9 4.28	+38 58.3	2.156	3.068	8.2	19.7
1 22	8 52.84	+39 43.5	2.151	3.088	6.7	19.6
2 1	8 40.64	+40 8.5	2.176	3.107	7.1	19.7
2 11	8 29.04	+40 10.5	2.228	3.125	9.0	19.8
2 21	8 19.19	+39 51.0	2.307	3.142	11.3	20.0
3 2	8 11.89	+39 13.6	2.409	3.158	13.5	20.2

366784 2004 TO_{242} 1 29.3 113°.22 1°.5/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.97	+20 8.6	2.492	3.273	12.0	22.2
1 2	9 6.62	+20 58.2	2.424	3.296	9.2	22.0
1 12	8 59.33	+21 53.3	2.381	3.319	6.0	21.9
1 22	8 50.68	+22 49.3	2.367	3.342	2.7	21.7
2 1	8 41.43	+23 41.4	2.384	3.363	2.1	21.7
2 11	8 32.51	+24 25.5	2.432	3.384	5.1	21.9
2 21	8 24.72	+24 59.3	2.509	3.405	8.2	22.1
3 2	8 18.70	+25 22.0	2.613	3.424	10.9	22.3

265589 2005 QK_{162} 1 29.3 133°.90 0°.3/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.80	+15 51.5	2.104	2.887	13.9	21.4
1 2	9 6.15	+16 33.0	2.025	2.897	10.7	21.2
1 12	8 59.26	+17 24.8	1.969	2.907	7.1	21.0
1 22	8 50.72	+18 22.8	1.940	2.916	3.0	20.8
2 1	8 41.40	+19 21.6	1.941	2.925	1.3	20.7
2 11	8 32.33	+20 16.0	1.973	2.933	5.4	21.0
2 21	8 24.50	+21 2.1	2.033	2.942	9.1	21.2
3 2	8 18.67	+21 37.5	2.118	2.949	12.4	21.4

222069 1999 FP_{84} 1 29.3 283°.94 3°.0/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.68	+ 9 41.8	1.863	2.637	15.7	20.7
1 2	9 5.76	+ 9 27.4	1.760	2.621	12.7	20.5
1 12	8 59.33	+ 9 26.6	1.678	2.604	9.1	20.2
1 22	8 50.88	+ 9 38.8	1.621	2.587	5.2	19.9
2 1	8 41.30	+10 2.1	1.592	2.571	3.1	19.8
2 11	8 31.77	+10 32.7	1.591	2.554	6.1	19.9
2 21	8 23.45	+11 6.3	1.617	2.537	10.3	20.1
3 2	8 17.29	+11 38.9	1.668	2.521	14.1	20.3

160109 2000 SH_{148} 1 29.3 144°.14 0°.4/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.56	+15 10.9	1.978	2.755	14.8	20.9
1 2	9 9.12	+15 28.7	1.898	2.767	11.6	20.7
1 12	9 1.25	+15 56.7	1.842	2.777	7.7	20.5
1 22	8 51.59	+16 31.3	1.813	2.788	3.4	20.2
2 1	8 41.09	+17 8.2	1.813	2.797	1.2	20.1
2 11	8 30.94	+17 42.7	1.843	2.806	5.5	20.4
2 21	8 22.19	+18 11.5	1.902	2.814	9.5	20.7
3 2	8 15.65	+18 32.6	1.986	2.821	13.0	20.9

305654 2009 BY_{61} 1 29.3 60°.69 0°.3/29.5 16

12 23	9 14.75	+15 48.4	1.357	2.161	19.0	21.3
1 2	9 10.00	+16 0.5	1.302	2.185	14.7	21.1
1 12	9 2.10	+16 25.5	1.268	2.210	9.7	20.9
1 22	8 51.97	+16 58.5	1.258	2.234	4.2	20.6
2 1	8 40.99	+17 33.5	1.274	2.259	1.5	20.5
2 11	8 30.76	+18 4.7	1.318	2.283	6.8	20.9
2 21	8 22.61	+18 28.0	1.387	2.308	11.6	21.2
3 2	8 17.41	+18 41.9	1.479	2.332	15.6	21.5

144406 2004 EQ_{8} 1 29.3 29°.03 5°.8/26.5 18

12 23	9 15.61	+30 43.4	1.635	2.446	16.0	19.7
1 2	9 10.80	+31 29.4	1.564	2.448	12.6	19.5
1 12	9 2.78	+32 14.0	1.515	2.451	9.0	19.3
1 22	8 52.34	+32 49.0	1.492	2.454	6.2	19.1
2 1	8 40.82	+33 6.6	1.495	2.457	6.4	19.1
2 11	8 29.84	+33 2.8	1.526	2.461	9.3	19.3
2 21	8 20.84	+32 37.8	1.581	2.464	12.9	19.5
3 2	8 14.80	+31 55.3	1.658	2.468	16.2	19.7

133147 2003 QC_{18} 1 29.3 87°.95 1°.7/28.4 18

12 23	9 15.96	+20 9.3	1.668	2.465	16.3	20.1
1 2	9 10.50	+20 44.6	1.608	2.489	12.5	20.0
1 12	9 2.25	+21 27.2	1.571	2.513	8.2	19.8
1 22	8 52.01	+22 11.3	1.560	2.536	3.6	19.5
2 1	8 40.99	+22 50.5	1.578	2.559	2.4	19.5
2 11	8 30.59	+23 19.7	1.624	2.582	6.7	19.8
2 21	8 21.99	+23 36.6	1.698	2.604	10.8	20.1
3 2	8 16.03	+23 41.3	1.795	2.625	14.3	20.4

20373 Fullmer 1 29.3 240°.44 2°.8/27.2 18

12 23	9 10.30	+23 12.5	2.248	3.043	12.7	19.0
1 2	9 5.94	+24 9.2	2.152	3.032	9.8	18.8
1 12	8 59.27	+25 11.8	2.081	3.021	6.6	18.6
1 22	8 50.82	+26 15.0	2.038	3.010	3.5	18.4
2 1	8 41.39	+27 12.7	2.024	2.999	3.4	18.3
2 11	8 32.05	+27 59.4	2.041	2.987	6.5	18.5
2 21	8 23.83	+28 32.3	2.085	2.975	9.9	18.7
3 2	8 17.59	+28 50.4	2.154	2.963	13.0	18.9

308202 2005 EH_{45} 1 29.3 307°.20 0°.6/29.6 18

12 23	9 10.35	+15 31.1	1.513	2.317	17.4	20.8
1 2	9 6.88	+15 36.9	1.422	2.305	13.7	20.6
1 12	9 0.37	+15 55.2	1.351	2.293	9.3	20.3
1 22	8 51.43	+16 23.2	1.305	2.281	4.2	19.9
2 1	8 41.15	+16 55.8	1.285	2.269	1.5	19.7
2 11	8 31.03	+17 27.4	1.292	2.258	6.8	20.0
2 21	8 22.50	+17 53.4	1.325	2.247	11.9	20.3
3 2	8 16.70	+18 10.9	1.379	2.236	16.3	20.5

221784 2007 TW_{408} 1 29.3 214°.50 0°.5/29.6 18

12 23	9 9.99	+16 2.9	2.451	3.226	12.4	20.4
1 2	9 5.25	+16 0.9	2.356	3.224	9.6	20.2
1 12	8 58.55	+16 5.5	2.286	3.221	6.4	20.0
1 22	8 50.41	+16 14.8	2.243	3.218	2.9	19.8
2 1	8 41.57	+16 26.2	2.231	3.215	1.0	19.6
2 11	8 32.92	+16 36.8	2.249	3.211	4.6	19.9
2 21	8 25.29	+16 44.8	2.296	3.208	8.1	20.1
3 2	8 19.37	+16 48.5	2.369	3.204	11.1	20.3

20312 Danahy 1 29.3 73°.34 2°.5/28.2 18

12 23	9 15.93	+22 42.5	1.526	2.334	17.1	17.8
1 2	9 10.86	+23 5.9	1.462	2.348	13.2	17.5
1 12	9 2.69	+23 34.6	1.419	2.363	8.7	17.3
1 22	8 52.27	+24 2.3	1.402	2.377	4.1	17.1
2 1	8 40.92	+24 22.7	1.412	2.392	3.2	17.1
2 11	8 30.20	+24 31.3	1.450	2.407	7.4	17.4
2 21	8 21.46	+24 26.8	1.514	2.421	11.8	17.6
3 2	8 15.61	+24 10.2	1.600	2.436	15.5	17.9

286651 2002 EG_{70} 1 29.3 334°.37 1°.2/29.9 18

12 23	9 7.61	+13 48.5	1.288	2.104	19.2	20.6
1 2	9 5.18	+13 54.8	1.204	2.093	15.2	20.3
1 12	8 59.47	+14 17.8	1.139	2.082	10.4	20.0
1 22	8 51.10	+14 54.8	1.097	2.073	4.9	19.7
2 1	8 41.28	+15 40.4	1.080	2.064	1.8	19.5
2 11	8 31.66	+16 27.3	1.088	2.056	7.4	19.8
2 21	8 23.83	+17 9.0	1.120	2.049	12.9	20.1
3 2	8 19.02	+17 41.0	1.173	2.043	17.7	20.3

393689 2004 ST_{28} 1 29.3 147°.32 0°.3/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.52	+16 13.7	1.944	2.725	14.9	22.6
1 2	9 9.19	+16 48.7	1.865	2.736	11.6	22.3
1 12	9 1.37	+17 34.1	1.809	2.746	7.6	22.1
1 22	8 51.68	+18 25.6	1.780	2.756	3.3	21.9
2 1	8 41.11	+19 17.5	1.781	2.765	1.4	21.7
2 11	8 30.87	+20 4.5	1.812	2.773	5.8	22.1
2 21	8 22.04	+20 42.7	1.872	2.780	9.8	22.3
3 2	8 15.48	+21 10.4	1.956	2.787	13.3	22.6

73288 2002 JP_{64} 1 29.3 275°.66 1°.5/28.5 18

12 23	9 11.62	+19 6.7	1.661	2.464	16.1	20.1
1 2	9 7.73	+19 39.9	1.565	2.450	12.6	19.9
1 12	9 0.88	+20 23.7	1.492	2.435	8.4	19.6
1 22	8 51.65	+21 13.2	1.444	2.420	3.7	19.3
2 1	8 41.09	+22 1.5	1.423	2.406	2.3	19.1
2 11	8 30.61	+22 42.3	1.431	2.391	7.1	19.4
2 21	8 21.63	+23 11.2	1.464	2.376	11.8	19.6
3 2	8 15.27	+23 26.4	1.521	2.360	16.0	19.8

210387 2007 VQ_{129} 1 29.3 273°.14 0°.4/29.5 18

12 23	9 11.01	+14 57.5	1.670	2.465	16.4	21.3
1 2	9 7.18	+15 16.5	1.572	2.450	13.0	21.0
1 12	9 0.48	+15 48.8	1.495	2.435	8.7	20.7
1 22	8 51.48	+16 31.3	1.444	2.420	3.9	20.4
2 1	8 41.16	+17 18.7	1.420	2.404	1.4	20.2
2 11	8 30.90	+18 4.9	1.425	2.389	6.5	20.5
2 21	8 22.06	+18 44.6	1.455	2.373	11.3	20.7
3 2	8 15.73	+19 14.8	1.509	2.358	15.6	20.9

368623 2004 TF_{195} 1 29.3 96°.49 2°.8/31.1 18

12 23	9 9.28	+ 8 56.8	2.053	2.818	14.8	21.0
1 2	9 4.97	+ 8 52.8	1.970	2.826	11.8	20.8
1 12	8 58.50	+ 9 2.4	1.910	2.833	8.3	20.6
1 22	8 50.42	+ 9 24.3	1.875	2.841	4.7	20.4
2 1	8 41.60	+ 9 55.8	1.870	2.848	2.8	20.3
2 11	8 33.03	+10 33.0	1.893	2.856	5.3	20.5
2 21	8 25.67	+11 11.8	1.945	2.863	8.9	20.7
3 2	8 20.24	+11 48.5	2.021	2.870	12.2	20.9

416578 2004 FX_{86} 1 29.3 301°.70 7°.6/24.1 18

12 23	9 14.78	+39 5.5	2.180	2.972	13.1	20.6
1 2	9 9.84	+40 6.2	2.096	2.958	10.9	20.4
1 12	9 2.05	+41 0.8	2.035	2.944	8.8	20.3
1 22	8 52.06	+41 41.2	2.000	2.930	7.6	20.2
2 1	8 40.98	+42 0.5	1.992	2.916	8.1	20.2
2 11	8 30.19	+41 54.9	2.012	2.903	10.1	20.3
2 21	8 20.99	+41 25.2	2.055	2.889	12.5	20.4
3 2	8 14.36	+40 34.7	2.121	2.876	14.9	20.6

152779 1999 RL_{169} 1 29.3 184°.34 3°.0/27.5 18 R

12 23	9 14.99	+26 57.2	2.459	3.244	12.0	20.2
1 2	9 9.18	+27 20.9	2.371	3.244	9.3	20.1
1 12	9 1.18	+27 44.9	2.308	3.244	6.3	19.9
1 22	8 51.56	+28 4.7	2.274	3.243	3.6	19.7
2 1	8 41.19	+28 15.9	2.270	3.242	3.4	19.7
2 11	8 31.12	+28 15.9	2.297	3.240	6.1	19.8
2 21	8 22.28	+28 3.9	2.352	3.238	9.1	20.0
3 2	8 15.42	+27 41.0	2.433	3.236	11.9	20.2

325122 2008 ES_{81} 1 29.3 209°.94 4°.1/ 1.4 17

12 23	9 9.13	+ 2 52.2	2.467	3.194	13.6	21.9
1 2	9 4.63	+ 2 52.9	2.362	3.188	11.2	21.7
1 12	8 58.20	+ 3 9.3	2.280	3.180	8.4	21.5
1 22	8 50.31	+ 3 41.2	2.223	3.172	5.7	21.3
2 1	8 41.63	+ 4 27.2	2.196	3.163	4.1	21.2
2 11	8 33.02	+ 5 23.5	2.200	3.154	5.5	21.3
2 21	8 25.30	+ 6 25.7	2.232	3.144	8.3	21.4
3 2	8 19.18	+ 7 29.1	2.291	3.133	11.2	21.6

401997 2003 GH_{56} 1 29.3 225°.35 2°.6/27.7 18

12 23	9 13.75	+21 27.0	1.817	2.616	15.2	21.4
1 2	9 9.14	+22 21.2	1.725	2.607	11.8	21.2
1 12	9 1.69	+23 24.4	1.656	2.598	7.8	20.9
1 22	8 51.97	+24 30.2	1.613	2.588	3.8	20.7
2 1	8 41.00	+25 31.0	1.600	2.578	3.3	20.6
2 11	8 30.16	+26 20.1	1.615	2.567	7.3	20.8
2 21	8 20.77	+26 53.6	1.657	2.555	11.5	21.0
3 2	8 13.88	+27 10.7	1.723	2.544	15.2	21.3

156051 2001 SL_{46} 1 29.3 149°.72 4°.7/26.8 18

12 23	9 18.01	+27 30.4	1.761	2.561	15.5	20.2
1 2	9 12.39	+28 27.5	1.689	2.569	12.1	20.0
1 12	9 3.73	+29 26.7	1.640	2.577	8.3	19.8
1 22	8 52.78	+30 19.9	1.617	2.584	5.2	19.6
2 1	8 40.77	+30 59.3	1.623	2.590	5.3	19.7
2 11	8 29.22	+31 19.7	1.658	2.596	8.4	19.9
2 21	8 19.49	+31 20.3	1.718	2.601	12.1	20.1
3 2	8 12.57	+31 3.3	1.802	2.606	15.4	20.3

285115 1995 QB_4 1 29.3 244°.20 4°.7/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.90	+30 17.5	2.014	2.811	13.9	20.8
1 2	9 10.48	+30 48.5	1.930	2.808	10.9	20.6
1 12	9 2.33	+31 18.0	1.870	2.804	7.7	20.3
1 22	8 52.15	+31 39.5	1.837	2.800	5.1	20.2
2 1	8 41.00	+31 47.4	1.832	2.796	5.1	20.2
2 11	8 30.24	+31 38.3	1.856	2.792	7.9	20.3
2 21	8 21.06	+31 12.3	1.907	2.788	11.2	20.5
3 2	8 14.36	+30 31.9	1.982	2.784	14.2	20.7

474413 2002 WU_6 1 29.3 346°.95 20°.8/13.2 17

12 23	9 10.45	+47 46.1	0.864	1.712	23.7	19.6
1 2	9 11.48	+51 36.7	0.827	1.702	21.7	19.4
1 12	9 6.15	+55 7.5	0.806	1.694	20.8	19.3
1 22	8 54.81	+57 51.5	0.803	1.688	21.4	19.3
2 1	8 39.88	+59 26.2	0.817	1.682	23.1	19.4
2 11	8 25.76	+59 44.1	0.844	1.679	25.5	19.5
2 21	8 16.38	+58 53.7	0.883	1.677	28.0	19.7
3 2	8 13.74	+57 10.5	0.932	1.676	30.3	19.9

47886 2000 FT_{42} 1 29.3 302°.01 0°.9/28.7 18

12 23	9 8.60	+18 36.1	2.151	2.943	13.3	18.7
1 2	9 4.54	+19 5.8	2.062	2.941	10.3	18.5
1 12	8 58.29	+19 43.1	1.997	2.938	6.8	18.2
1 22	8 50.38	+20 24.5	1.959	2.936	2.9	18.0
2 1	8 41.65	+21 5.1	1.951	2.934	1.6	17.9
2 11	8 33.11	+21 40.5	1.972	2.931	5.5	18.2
2 21	8 25.72	+22 7.7	2.020	2.929	9.2	18.4
3 2	8 20.27	+22 25.0	2.094	2.927	12.5	18.6

312218 2007 VQ_{329} 1 29.3 10°.37 4°.0/31.3 18

12 23	9 9.80	+ 8 13.5	1.532	2.315	18.2	20.7
1 2	9 6.17	+ 7 54.0	1.451	2.316	14.7	20.5
1 12	8 59.72	+ 7 52.0	1.390	2.316	10.6	20.2
1 22	8 51.10	+ 8 7.2	1.353	2.318	6.3	20.0
2 1	8 41.38	+ 8 37.1	1.341	2.319	4.0	19.8
2 11	8 31.96	+ 9 16.8	1.357	2.321	6.8	20.0
2 21	8 24.10	+10 0.6	1.399	2.323	11.2	20.3
3 2	8 18.79	+10 43.1	1.463	2.325	15.2	20.5

354549 2004 SZ_{53} 1 29.3 99°.78 2°.0/30.5 17

12 23	9 14.26	+10 48.6	1.675	2.451	17.2	21.8
1 2	9 9.16	+11 2.6	1.608	2.473	13.5	21.6
1 12	9 1.39	+11 32.1	1.563	2.494	9.2	21.4
1 22	8 51.70	+12 14.1	1.543	2.514	4.7	21.1
2 1	8 41.20	+13 3.7	1.552	2.534	2.1	21.0
2 11	8 31.19	+13 55.1	1.590	2.554	5.9	21.3
2 21	8 22.81	+14 43.0	1.655	2.573	10.2	21.6
3 2	8 16.91	+15 23.8	1.744	2.591	13.9	21.9

187205 2005 ST_{92} 1 29.3 191°.98 1°.1/30.0 18

12 23	9 10.62	+13 13.6	2.095	2.871	14.2	21.0
1 2	9 6.09	+13 23.7	2.004	2.870	11.1	20.8
1 12	8 59.31	+13 44.8	1.936	2.869	7.6	20.6
1 22	8 50.83	+14 14.5	1.895	2.868	3.6	20.3
2 1	8 41.49	+14 49.3	1.882	2.866	1.4	20.2
2 11	8 32.35	+15 24.9	1.900	2.864	5.2	20.4
2 21	8 24.38	+15 57.7	1.946	2.861	9.1	20.6
3 2	8 18.38	+16 25.0	2.017	2.859	12.5	20.8

492736 2014 QY_{125} 1 29.3 240°.12 0°.1/29.3 17

12 23	9 14.11	+16 43.0	1.873	2.659	15.2	22.3
1 2	9 9.27	+16 55.2	1.772	2.645	12.0	22.1
1 12	9 1.71	+17 17.0	1.693	2.631	8.0	21.8
1 22	8 51.98	+17 45.3	1.641	2.617	3.5	21.5
2 1	8 41.05	+18 15.3	1.618	2.602	1.3	21.3
2 11	8 30.21	+18 42.4	1.624	2.586	6.1	21.6
2 21	8 20.70	+19 3.1	1.657	2.570	10.6	21.8
3 2	8 13.55	+19 15.5	1.715	2.553	14.5	22.0

232365 2002 XN_{109} 1 29.3 78°.71 0°.7/29.6 17

12 23	9 16.54	+15 34.3	1.362	2.162	19.2	20.9
1 2	9 11.50	+15 35.7	1.300	2.181	14.9	20.7
1 12	9 3.20	+15 49.7	1.259	2.200	9.9	20.5
1 22	8 52.54	+16 12.2	1.242	2.218	4.4	20.2
2 1	8 40.91	+16 38.0	1.252	2.237	1.5	20.0
2 11	8 29.99	+17 1.6	1.290	2.255	6.9	20.4
2 21	8 21.16	+17 19.3	1.352	2.273	11.8	20.8
3 2	8 15.38	+17 29.1	1.438	2.291	16.0	21.1

136225 2003 WJ_{99} 1 29.3 208°.49 1°.3/28.7 18

12 23	9 14.11	+20 10.1	1.853	2.647	15.1	20.4
1 2	9 9.18	+20 28.9	1.765	2.644	11.7	20.2
1 12	9 1.55	+20 54.6	1.700	2.641	7.7	19.9
1 22	8 51.86	+21 22.6	1.661	2.637	3.4	19.6
2 1	8 41.13	+21 47.9	1.651	2.633	2.1	19.5
2 11	8 30.66	+22 6.0	1.670	2.629	6.4	19.8
2 21	8 21.67	+22 14.3	1.716	2.624	10.6	20.0
3 2	8 15.09	+22 12.4	1.787	2.619	14.3	20.3

234924 2002 TX_{382} 1 29.3 81°.70 4°.9/ 1.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.96	+ 2 19.8	2.300	3.034	14.2	20.3
1 2	9 3.02	+ 1 59.7	2.208	3.035	11.8	20.1
1 12	8 57.16	+ 1 55.2	2.138	3.036	9.0	20.0
1 22	8 49.87	+ 2 7.0	2.093	3.037	6.3	19.8
2 1	8 41.86	+ 2 33.9	2.076	3.038	4.9	19.7
2 11	8 34.02	+ 3 13.1	2.088	3.039	6.0	19.8
2 21	8 27.15	+ 4 0.3	2.127	3.040	8.6	19.9
3 2	8 21.96	+ 4 51.0	2.193	3.040	11.4	20.1

53684 2000 DA_{78} 1 29.3 172°.67 2°.1/28.2 18

12 23	9 16.98	+21 44.4	1.821	2.613	15.4	19.0
1 2	9 11.42	+22 14.2	1.739	2.617	11.9	18.8
1 12	9 3.03	+22 50.0	1.679	2.620	7.9	18.6
1 22	8 52.49	+23 26.3	1.646	2.622	3.6	18.3
2 1	8 40.91	+23 57.1	1.643	2.623	2.8	18.3
2 11	8 29.68	+24 17.5	1.669	2.624	6.8	18.5
2 21	8 20.07	+24 25.5	1.722	2.624	10.9	18.8
3 2	8 13.02	+24 21.2	1.799	2.623	14.6	19.0

157807 1995 UY_{14} 1 29.3 34°.57 1°.8/30.4 18

12 23	9 9.40	+12 11.7	1.898	2.680	15.2	20.6
1 2	9 5.33	+12 11.5	1.814	2.682	12.0	20.4
1 12	8 58.89	+12 23.6	1.752	2.684	8.3	20.1
1 22	8 50.67	+12 45.9	1.715	2.687	4.2	19.9
2 1	8 41.59	+13 15.2	1.707	2.689	1.9	19.7
2 11	8 32.77	+13 47.2	1.727	2.692	5.5	20.0
2 21	8 25.25	+14 18.0	1.775	2.695	9.5	20.2
3 2	8 19.84	+14 44.6	1.847	2.698	13.1	20.5

428993 2009 AH_{50} 1 29.3 72°.13 1°.3/30.4 18

12 23	9 6.47	+10 9.6	2.257	3.027	13.5	21.3
1 2	9 2.69	+10 51.5	2.175	3.036	10.6	21.1
1 12	8 56.95	+11 47.4	2.116	3.046	7.2	20.9
1 22	8 49.78	+12 54.3	2.084	3.055	3.6	20.7
2 1	8 41.92	+14 7.6	2.082	3.065	1.5	20.5
2 11	8 34.27	+15 21.7	2.110	3.075	4.7	20.8
2 21	8 27.65	+16 31.7	2.167	3.084	8.2	21.0
3 2	8 22.74	+17 33.7	2.251	3.094	11.3	21.2

343607 2010 GQ_{114} 1 29.3 181°.83 4°.5/ 1.7 17

12 23	9 6.73	+ 2 12.8	2.601	3.327	13.0	21.2
1 2	9 2.62	+ 1 54.9	2.505	3.327	10.7	21.1
1 12	8 56.79	+ 1 51.0	2.432	3.327	8.2	20.9
1 22	8 49.70	+ 2 1.6	2.385	3.327	5.8	20.8
2 1	8 41.97	+ 2 25.6	2.366	3.327	4.5	20.7
2 11	8 34.37	+ 3 0.5	2.377	3.326	5.5	20.7
2 21	8 27.63	+ 3 42.9	2.416	3.326	7.9	20.9
3 2	8 22.36	+ 4 28.8	2.482	3.325	10.4	21.0

254623 2005 JB_{21} 1 29.3 134°.89 5°.2/ 1.8 18

12 23	9 11.66	+ 1 35.4	2.261	2.983	14.8	21.5
1 2	9 6.55	+ 1 11.5	2.179	2.997	12.3	21.3
1 12	8 59.43	+ 1 4.0	2.118	3.010	9.4	21.1
1 22	8 50.84	+ 1 13.2	2.083	3.023	6.6	21.0
2 1	8 41.56	+ 1 38.2	2.076	3.035	5.2	20.9
2 11	8 32.55	+ 2 15.8	2.099	3.046	6.3	21.0
2 21	8 24.65	+ 3 1.8	2.150	3.057	8.8	21.2
3 2	8 18.55	+ 3 51.5	2.228	3.067	11.6	21.4

335653 2006 PU_1 1 29.3 109°.03 4°.0/ 1.1 18

12 23	9 10.75	+ 4 40.9	2.704	3.430	12.5	20.9
1 2	9 5.47	+ 4 5.4	2.622	3.447	10.2	20.7
1 12	8 58.52	+ 3 41.2	2.565	3.464	7.7	20.6
1 22	8 50.39	+ 3 28.7	2.534	3.480	5.2	20.5
2 1	8 41.74	+ 3 27.2	2.533	3.497	4.0	20.4
2 11	8 33.35	+ 3 35.0	2.563	3.512	5.2	20.5
2 21	8 25.91	+ 3 49.7	2.623	3.528	7.5	20.7
3 2	8 19.98	+ 4 8.3	2.709	3.543	9.9	20.9

375274 2008 HD_{47} 1 29.3 194°.40 2°.2/27.4 17

12 23	9 11.47	+23 10.0	2.839	3.620	10.7	22.2
1 2	9 6.30	+24 3.8	2.744	3.617	8.3	22.1
1 12	8 59.25	+25 1.8	2.675	3.613	5.5	21.9
1 22	8 50.78	+25 59.6	2.636	3.608	2.9	21.7
2 1	8 41.57	+26 52.5	2.628	3.603	2.7	21.7
2 11	8 32.46	+27 36.5	2.652	3.597	5.3	21.8
2 21	8 24.25	+28 9.2	2.706	3.590	8.2	22.0
3 2	8 17.61	+28 30.0	2.785	3.582	10.7	22.2

110789 2001 UO_{35} 1 29.3 71°.61 5°.9/25.5 18

12 23	9 13.83	+29 26.5	1.732	2.542	15.3	19.2
1 2	9 9.19	+30 56.7	1.678	2.562	11.9	19.0
1 12	9 1.61	+32 27.3	1.646	2.581	8.5	18.8
1 22	8 51.88	+33 48.9	1.642	2.601	6.1	18.7
2 1	8 41.20	+34 52.6	1.665	2.620	6.6	18.8
2 11	8 31.06	+35 33.0	1.715	2.640	9.3	19.0
2 21	8 22.72	+35 49.3	1.791	2.659	12.5	19.2
3 2	8 17.10	+35 44.1	1.888	2.678	15.3	19.5

74978 1999 TY_{234} 1 29.3 196.°12 5.°4/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.46	+30 44.2	2.098	2.892	13.5	20.4
1 2	9 10.99	+31 52.9	2.015	2.890	10.7	20.2
1 12	9 2.77	+33 1.9	1.957	2.887	7.7	20.0
1 22	8 52.42	+34 3.4	1.926	2.883	5.6	19.9
2 1	8 40.98	+34 50.0	1.924	2.878	6.0	19.9
2 11	8 29.77	+35 16.6	1.951	2.873	8.5	20.0
2 21	8 20.06	+35 22.2	2.005	2.867	11.6	20.2
3 2	8 12.79	+35 8.7	2.081	2.861	14.4	20.4

10507 1988 ER_{1} 1 29.3 223.°85 4.°5/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.72	+26 54.2	1.733	2.537	15.5	17.6
1 2	9 10.85	+27 46.5	1.648	2.532	12.1	17.3
1 12	9 2.91	+28 42.2	1.587	2.526	8.4	17.1
1 22	8 52.54	+29 33.6	1.551	2.520	5.1	16.9
2 1	8 40.92	+30 12.8	1.544	2.513	5.1	16.9
2 11	8 29.59	+30 34.0	1.564	2.506	8.5	17.1
2 21	8 19.96	+30 35.5	1.611	2.499	12.4	17.3
3 2	8 13.12	+30 19.0	1.680	2.491	16.0	17.5

155334 2006 DZ_{169} 1 29.3 211.°79 3.°3/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 21.12	+24 43.7	2.055	2.836	14.2	21.7
1 2	9 14.64	+25 33.7	1.955	2.826	11.1	21.5
1 12	9 5.26	+26 28.4	1.879	2.815	7.5	21.3
1 22	8 53.55	+27 21.3	1.831	2.802	4.1	21.0
2 1	8 40.54	+28 5.2	1.814	2.787	3.9	21.0
2 11	8 27.63	+28 34.4	1.828	2.771	7.4	21.2
2 21	8 16.15	+28 46.8	1.870	2.753	11.2	21.4
3 2	8 7.19	+28 43.1	1.937	2.734	14.7	21.5

226790 2004 RV_{174} 1 29.3 132.°80 5.°1/ 2.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.02	− 0 6.6	2.422	3.135	14.1	20.9
1 2	9 4.43	− 0 16.9	2.337	3.148	11.8	20.7
1 12	8 57.99	− 0 10.1	2.274	3.160	9.1	20.6
1 22	8 50.21	+ 0 14.0	2.237	3.172	6.6	20.5
2 1	8 41.81	+ 0 54.0	2.228	3.184	5.1	20.4
2 11	8 33.62	+ 1 46.5	2.248	3.194	6.0	20.5
2 21	8 26.42	+ 2 46.8	2.298	3.205	8.3	20.6
3 2	8 20.85	+ 3 50.2	2.373	3.214	10.9	20.8

136023 2002 VW_{85} 1 29.3 19.°56 15.°9/19.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 26.70	+58 36.1	1.670	2.421	18.2	17.9
1 2	9 21.51	+60 23.7	1.643	2.432	16.9	17.8
1 12	9 10.83	+61 45.6	1.635	2.443	16.1	17.8
1 22	8 56.03	+62 29.3	1.645	2.456	15.9	17.8
2 1	8 39.76	+62 26.7	1.674	2.470	16.4	17.9
2 11	8 25.20	+61 37.8	1.723	2.485	17.4	18.0
2 21	8 14.64	+60 9.8	1.788	2.501	18.7	18.1
3 2	8 9.08	+58 13.3	1.869	2.518	19.9	18.3

124418 2001 QL_{224} 1 29.3 140.°37 0.°2/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.49	+17 4.8	1.592	2.386	17.1	20.5
1 2	9 10.52	+17 17.6	1.514	2.393	13.3	20.3
1 12	9 2.56	+17 40.9	1.458	2.399	8.8	20.0
1 22	8 52.34	+18 10.4	1.428	2.404	3.8	19.7
2 1	8 41.04	+18 40.7	1.426	2.410	1.5	19.6
2 11	8 30.15	+19 6.6	1.451	2.414	6.6	19.9
2 21	8 21.02	+19 24.7	1.504	2.419	11.3	20.2
3 2	8 14.61	+19 33.4	1.580	2.423	15.3	20.5

172130 2002 JC_{21} 1 29.3 197.°54 3.°1/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.33	+ 9 28.9	1.829	2.598	16.2	20.4
1 2	9 7.73	+ 9 15.3	1.739	2.597	13.0	20.1
1 12	9 0.58	+ 9 15.7	1.670	2.595	9.2	19.9
1 22	8 51.46	+ 9 29.3	1.627	2.593	5.2	19.7
2 1	8 41.34	+ 9 53.7	1.612	2.591	3.1	19.5
2 11	8 31.43	+10 24.9	1.625	2.588	6.1	19.7
2 21	8 22.87	+10 58.6	1.666	2.585	10.1	19.9
3 2	8 16.57	+11 30.8	1.732	2.582	13.8	20.1

396855 2004 SW_{15} 1 29.3 161.°50 0.°1/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.19	+15 4.2	2.073	2.848	14.3	22.8
1 2	9 8.86	+15 40.6	1.989	2.856	11.2	22.6
1 12	9 1.16	+16 28.1	1.927	2.863	7.4	22.3
1 22	8 51.67	+17 22.6	1.894	2.869	3.2	22.1
2 1	8 41.31	+18 18.8	1.891	2.875	1.2	21.9
2 11	8 31.19	+19 11.5	1.918	2.879	5.4	22.3
2 21	8 22.35	+19 56.6	1.974	2.883	9.4	22.5
3 2	8 15.63	+20 31.6	2.056	2.886	12.8	22.7

317547 2002 UW_{18} 1 29.3 71.°61 3.°0/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.11	+ 7 54.3	2.187	2.947	14.1	20.4
1 2	9 3.93	+ 7 48.9	2.107	2.958	11.3	20.3
1 12	8 57.77	+ 7 56.9	2.050	2.969	8.1	20.1
1 22	8 50.16	+ 8 17.1	2.018	2.981	4.8	19.9
2 1	8 41.89	+ 8 47.4	2.016	2.993	3.0	19.8
2 11	8 33.89	+ 9 24.0	2.043	3.004	5.1	20.0
2 21	8 26.99	+10 3.0	2.098	3.016	8.4	20.2
3 2	8 21.88	+10 40.8	2.178	3.027	11.4	20.4

190249 2007 ED_{200} 1 29.3 209.°83 0.°9/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.85	+12 14.0	2.351	3.120	13.0	21.1
1 2	9 4.57	+12 45.9	2.253	3.115	10.2	20.9
1 12	8 58.27	+13 29.8	2.178	3.110	6.9	20.7
1 22	8 50.43	+14 23.1	2.131	3.104	3.3	20.4
2 1	8 41.77	+15 21.7	2.114	3.098	1.2	20.3
2 11	8 33.21	+16 20.8	2.128	3.092	4.8	20.5
2 21	8 25.63	+17 16.1	2.171	3.085	8.4	20.7
3 2	8 19.76	+18 4.3	2.240	3.078	11.6	20.9

339546 2005 JE_{73} 1 29.3 128.°20 3.°9/ 1.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.13	+ 3 35.8	2.578	3.310	12.9	21.4
1 2	9 2.91	+ 3 26.1	2.489	3.317	10.6	21.3
1 12	8 56.97	+ 3 30.1	2.423	3.325	7.9	21.1
1 22	8 49.80	+ 3 47.8	2.383	3.332	5.3	20.9
2 1	8 42.02	+ 4 17.6	2.373	3.339	3.9	20.9
2 11	8 34.43	+ 4 56.7	2.392	3.345	5.1	20.9
2 21	8 27.73	+ 5 41.3	2.439	3.352	7.7	21.1
3 2	8 22.52	+ 6 27.7	2.514	3.358	10.3	21.3

34168 2000 QP_{31} 1 29.3 271.°95 4.°3/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.69	+25 0.9	1.560	2.373	16.5	19.1
1 2	9 9.67	+25 56.8	1.473	2.362	12.9	18.9
1 12	9 2.38	+26 59.5	1.408	2.350	8.8	18.6
1 22	8 52.43	+28 1.0	1.367	2.339	5.0	18.3
2 1	8 41.02	+28 52.1	1.354	2.327	5.0	18.3
2 11	8 29.80	+29 25.5	1.368	2.315	8.9	18.5
2 21	8 20.33	+29 38.4	1.407	2.303	13.3	18.7
3 2	8 13.83	+29 31.6	1.467	2.291	17.3	18.9

21475 Jasonclain 1 29.3 230.°70 1.°4/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.51	+18 18.6	1.445	2.253	17.9	18.1
1 2	9 9.50	+18 55.3	1.363	2.249	14.0	17.8
1 12	9 2.22	+19 44.8	1.302	2.246	9.2	17.5
1 22	8 52.33	+20 41.0	1.266	2.243	4.0	17.2
2 1	8 41.07	+21 36.2	1.256	2.239	2.3	17.1
2 11	8 30.09	+22 22.7	1.274	2.235	7.6	17.4
2 21	8 20.92	+22 55.8	1.317	2.231	12.6	17.7
3 2	8 14.73	+23 13.9	1.382	2.227	17.0	17.9

40825 1999 TZ_{90} 1 29.3 233.°51 0.°6/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.63	+13 18.9	1.825	2.610	15.6	19.1
1 2	9 6.60	+13 53.6	1.731	2.603	12.3	18.9
1 12	8 59.96	+14 43.2	1.659	2.595	8.3	18.6
1 22	8 51.27	+15 44.2	1.612	2.587	3.8	18.4
2 1	8 41.46	+16 50.8	1.595	2.579	1.3	18.1
2 11	8 31.75	+17 56.5	1.606	2.570	5.9	18.4
2 21	8 23.34	+18 55.6	1.645	2.561	10.4	18.7
3 2	8 17.19	+19 44.3	1.709	2.552	14.3	18.9

232151 2002 CB_{180} 1 29.3 237.°70 0.°2/29.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.34	+14 27.0	2.460	3.232	12.4	21.1
1 2	9 5.00	+15 20.6	2.351	3.217	9.7	20.9
1 12	8 58.61	+16 26.1	2.267	3.202	6.4	20.7
1 22	8 50.62	+17 40.1	2.211	3.186	2.8	20.4
2 1	8 41.71	+18 57.4	2.186	3.170	1.1	20.3
2 11	8 32.78	+20 12.5	2.193	3.153	5.0	20.5
2 21	8 24.73	+21 20.5	2.229	3.136	8.6	20.7
3 2	8 18.34	+22 18.3	2.292	3.118	11.8	20.9

236442 2006 DD_{199} 1 29.3 177.°85 5.°8/ 2.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.47	− 2 17.7	1.878	2.597	17.5	20.3
1 2	9 6.27	− 1 49.7	1.784	2.599	14.7	20.1
1 12	8 59.63	− 0 54.8	1.710	2.600	11.4	19.8
1 22	8 51.09	+ 0 27.2	1.660	2.601	8.0	19.6
2 1	8 41.55	+ 2 13.0	1.638	2.601	5.8	19.5
2 11	8 32.13	+ 4 15.2	1.646	2.600	6.9	19.6
2 21	8 23.94	+ 6 24.2	1.683	2.599	10.2	19.8
3 2	8 17.87	+ 8 30.6	1.746	2.598	13.6	20.0

12210 1981 EA_{42} 1 29.4 82.°53 4.°1/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.62	+ 5 59.9	1.386	2.165	19.9	19.0
1 2	9 7.76	+ 6 7.0	1.316	2.178	16.1	18.8
1 12	9 0.86	+ 6 37.9	1.266	2.190	11.6	18.5
1 22	8 51.67	+ 7 30.8	1.239	2.203	6.8	18.3
2 1	8 41.38	+ 8 41.0	1.237	2.215	4.1	18.2
2 11	8 31.53	+10 0.2	1.263	2.227	7.1	18.4
2 21	8 23.48	+11 19.9	1.314	2.240	11.6	18.7
3 2	8 18.22	+12 32.9	1.388	2.252	15.8	18.9

47535 2000 AA_{99} 1 29.4 67.°20 2.°1/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.82	+19 27.9	1.253	2.071	19.5	18.8
1 2	9 10.62	+20 11.9	1.195	2.087	15.1	18.5
1 12	9 2.90	+21 7.6	1.157	2.103	9.9	18.3
1 22	8 52.56	+22 7.2	1.142	2.119	4.3	18.0
2 1	8 41.09	+23 1.5	1.154	2.136	3.0	18.0
2 11	8 30.31	+23 42.9	1.192	2.152	8.1	18.3
2 21	8 21.78	+24 7.9	1.254	2.168	13.1	18.6
3 2	8 16.53	+24 16.3	1.337	2.185	17.3	18.9

252530 2001 VX_{11} 1 29.4 136°.86 3°.5/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.07	+ 6 49.8	2.409	3.147	13.6	20.6
1 2	9 7.51	+ 6 26.8	2.325	3.161	11.0	20.4
1 12	9 0.02	+ 6 15.8	2.264	3.174	8.0	20.2
1 22	8 51.12	+ 6 16.3	2.231	3.187	5.0	20.1
2 1	8 41.60	+ 6 27.1	2.228	3.200	3.5	20.0
2 11	8 32.36	+ 6 45.6	2.255	3.211	5.2	20.1
2 21	8 24.20	+ 7 8.9	2.312	3.222	8.1	20.3
3 2	8 17.79	+ 7 33.8	2.396	3.233	10.9	20.5

271709 2004 RT_{184} 1 29.4 50°.55 4°.0/31.8 18

12 23	9 9.13	+ 6 31.2	1.712	2.482	17.1	20.5
1 2	9 5.19	+ 6 20.7	1.644	2.499	13.8	20.4
1 12	8 58.82	+ 6 28.0	1.597	2.517	10.0	20.2
1 22	8 50.68	+ 6 52.3	1.574	2.535	6.1	20.0
2 1	8 41.77	+ 7 30.6	1.578	2.553	4.0	19.9
2 11	8 33.27	+ 8 17.8	1.610	2.572	6.2	20.1
2 21	8 26.23	+ 9 8.5	1.668	2.590	9.9	20.3
3 2	8 21.40	+ 9 57.4	1.751	2.609	13.3	20.6

91078 1998 FX_{106} 1 29.4 266°.89 1°.2/28.7 18

12 23	9 13.96	+21 16.0	2.066	2.856	13.9	19.8
1 2	9 8.92	+21 19.0	1.965	2.841	10.8	19.6
1 12	9 1.36	+21 26.2	1.887	2.827	7.2	19.4
1 22	8 51.85	+21 33.9	1.836	2.812	3.2	19.1
2 1	8 41.31	+21 38.4	1.814	2.797	1.9	19.0
2 11	8 30.93	+21 36.4	1.823	2.782	5.9	19.2
2 21	8 21.84	+21 26.3	1.859	2.766	9.9	19.4
3 2	8 14.93	+21 8.1	1.920	2.751	13.5	19.6

129016 2004 TS_{321} 1 29.4 240°.66 1°.8/28.2 18

12 23	9 11.16	+21 39.3	2.119	2.913	13.4	20.7
1 2	9 6.63	+22 6.7	2.029	2.909	10.4	20.5
1 12	8 59.77	+22 39.6	1.963	2.904	6.9	20.3
1 22	8 51.13	+23 13.4	1.924	2.900	3.2	20.0
2 1	8 41.59	+23 43.3	1.914	2.895	2.4	20.0
2 11	8 32.27	+24 5.2	1.934	2.890	6.0	20.2
2 21	8 24.19	+24 16.8	1.982	2.885	9.7	20.4
3 2	8 18.18	+24 17.6	2.054	2.880	12.9	20.6

15089 1999 CQ_{82} 1 29.4 188°.25 4°.9/25.9 18

12 23	9 15.11	+30 21.0	2.227	3.020	12.9	18.1
1 2	9 9.74	+31 20.8	2.145	3.020	10.1	17.9
1 12	9 1.85	+32 20.6	2.088	3.019	7.3	17.7
1 22	8 52.03	+33 13.5	2.058	3.017	5.1	17.6
2 1	8 41.27	+33 52.9	2.058	3.015	5.4	17.6
2 11	8 30.76	+34 14.7	2.087	3.012	7.9	17.7
2 21	8 21.63	+34 17.9	2.143	3.009	10.8	17.9
3 2	8 14.75	+34 3.9	2.223	3.005	13.5	18.1

461710 2005 SK_{74} 1 29.4 86°.38 1°.1/28.7 18

12 23	9 12.11	+19 10.0	1.844	2.640	15.1	21.8
1 2	9 7.51	+19 34.7	1.769	2.649	11.6	21.6
1 12	9 0.38	+20 7.1	1.717	2.659	7.6	21.3
1 22	8 51.38	+20 42.7	1.691	2.668	3.3	21.1
2 1	8 41.52	+21 16.3	1.695	2.677	1.8	21.0
2 11	8 32.05	+21 43.3	1.727	2.687	6.1	21.3
2 21	8 24.05	+22 0.9	1.786	2.696	10.1	21.6
3 2	8 18.36	+22 8.2	1.869	2.705	13.6	21.8

148172 1999 YZ_{25} 1 29.4 70°.39 3°.1/30.9 18

12 23	9 11.47	+ 9 12.5	1.390	2.180	19.4	19.5
1 2	9 7.76	+ 9 14.3	1.315	2.185	15.5	19.2
1 12	9 0.96	+ 9 36.1	1.259	2.190	10.9	19.0
1 22	8 51.76	+10 16.0	1.226	2.195	5.9	18.7
2 1	8 41.37	+11 9.5	1.220	2.201	3.2	18.6
2 11	8 31.34	+12 9.3	1.240	2.206	7.0	18.8
2 21	8 23.08	+13 8.5	1.285	2.211	11.8	19.1
3 2	8 17.66	+14 1.1	1.353	2.216	16.2	19.4

435907 2009 BV_{24} 1 29.4 347°.33 0°.4/29.6 17

12 23	9 4.42	+13 1.3	1.847	2.643	15.1	20.5
1 2	9 1.73	+13 48.3	1.757	2.636	11.8	20.2
1 12	8 56.71	+14 51.1	1.690	2.629	7.9	20.0
1 22	8 49.86	+16 5.6	1.648	2.624	3.5	19.7
2 1	8 42.05	+17 26.1	1.634	2.619	1.2	19.5
2 11	8 34.37	+18 45.2	1.650	2.615	5.7	19.8
2 21	8 27.88	+19 56.9	1.692	2.611	9.9	20.1
3 2	8 23.46	+20 56.8	1.758	2.608	13.7	20.3

456530 2007 AV_{23} 1 29.4 325°.06 4°.2/30.6 18

12 23	9 11.38	+11 38.1	1.493	2.286	18.1	20.0
1 2	9 7.80	+10 35.3	1.393	2.265	14.7	19.7
1 12	9 1.12	+ 9 41.6	1.314	2.244	10.6	19.4
1 22	8 51.92	+ 8 58.3	1.258	2.225	6.3	19.1
2 1	8 41.28	+ 8 26.0	1.228	2.206	4.3	18.9
2 11	8 30.69	+ 8 3.8	1.225	2.188	7.6	19.1
2 21	8 21.65	+ 7 49.8	1.247	2.171	12.3	19.3
3 2	8 15.34	+ 7 41.1	1.291	2.155	16.8	19.5

272736 2005 YX_{98} 1 29.4 3°.11 0°.2/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.58	+18 56.1	1.246	2.074	19.0	19.4
1 2	9 5.89	+18 30.2	1.175	2.072	14.9	19.2
1 12	8 59.86	+18 11.9	1.124	2.072	9.9	18.9
1 22	8 51.30	+17 58.4	1.096	2.073	4.3	18.6
2 1	8 41.56	+17 46.2	1.092	2.077	1.5	18.4
2 11	8 32.36	+17 31.9	1.114	2.082	7.2	18.8
2 21	8 25.18	+17 13.6	1.160	2.089	12.5	19.1
3 2	8 21.04	+16 50.6	1.226	2.097	16.9	19.4

111018 2001 VW_{9} 1 29.4 245°.53 5°.0/25.6 18

12 23	9 11.26	+26 34.1	1.880	2.688	14.4	19.1
1 2	9 7.29	+28 9.1	1.798	2.683	11.2	18.9
1 12	9 0.54	+29 50.3	1.740	2.679	7.8	18.7
1 22	8 51.59	+31 28.8	1.710	2.674	5.3	18.5
2 1	8 41.42	+32 55.2	1.708	2.669	5.8	18.6
2 11	8 31.39	+34 2.1	1.734	2.664	8.8	18.7
2 21	8 22.77	+34 45.9	1.787	2.659	12.2	18.9
3 2	8 16.62	+35 7.2	1.862	2.654	15.4	19.1

336551 2009 CZ_{50} 1 29.4 58°.99 6°.0/26.2 18

12 23	9 18.17	+36 2.1	2.157	2.947	13.4	20.3
1 2	9 11.95	+36 31.5	2.094	2.960	10.7	20.1
1 12	9 3.12	+36 54.2	2.054	2.974	8.1	20.0
1 22	8 52.48	+37 3.9	2.041	2.988	6.2	19.9
2 1	8 41.18	+36 55.6	2.056	3.002	6.4	19.9
2 11	8 30.54	+36 27.7	2.100	3.016	8.4	20.1
2 21	8 21.62	+35 42.1	2.170	3.030	10.9	20.3
3 2	8 15.20	+34 42.5	2.264	3.044	13.4	20.5

166540 2002 RF_{34} 1 29.4 164°.75 3°.8/26.6 18

12 23	9 12.71	+29 9.0	2.476	3.267	11.8	20.4
1 2	9 7.53	+29 49.3	2.395	3.270	9.2	20.2
1 12	9 0.18	+30 29.2	2.339	3.273	6.4	20.0
1 22	8 51.25	+31 3.5	2.312	3.275	4.2	19.9
2 1	8 41.59	+31 27.5	2.314	3.277	4.3	19.9
2 11	8 32.22	+31 38.0	2.345	3.279	6.6	20.0
2 21	8 24.04	+31 34.2	2.405	3.280	9.4	20.2
3 2	8 17.81	+31 17.2	2.489	3.282	11.9	20.4

23501 1992 CK_{1} 1 29.4 317°.71 2°.8/31.3 18 R

12 23	9 5.15	+ 7 8.0	1.754	2.531	16.4	18.1
1 2	9 2.50	+ 7 37.5	1.652	2.515	13.3	17.9
1 12	8 57.36	+ 8 28.3	1.571	2.498	9.5	17.6
1 22	8 50.22	+ 9 38.8	1.515	2.482	5.3	17.3
2 1	8 41.92	+11 4.7	1.486	2.466	2.8	17.1
2 11	8 33.62	+12 38.7	1.485	2.451	6.0	17.3
2 21	8 26.50	+14 12.7	1.511	2.437	10.4	17.5
3 2	8 21.54	+15 39.6	1.562	2.422	14.5	17.7

45956 2001 AG_{41} 1 29.4 216°.75 0°.4/29.2 18

12 23	9 15.65	+18 31.7	2.204	2.980	13.5	19.7
1 2	9 10.01	+18 37.7	2.102	2.971	10.6	19.4
1 12	9 1.98	+18 49.9	2.025	2.961	7.0	19.2
1 22	8 52.11	+19 5.1	1.975	2.951	3.0	18.9
2 1	8 41.27	+19 19.6	1.956	2.939	1.3	18.8
2 11	8 30.58	+19 30.0	1.967	2.927	5.4	19.0
2 21	8 21.10	+19 34.3	2.008	2.915	9.3	19.3
3 2	8 13.68	+19 31.6	2.074	2.901	12.8	19.5

4413 Mycerinos 1 29.4 82°.83 1°.6/30.2 18

12 23	9 12.30	+12 34.4	1.541	2.332	17.7	17.5
1 2	9 8.09	+12 41.2	1.466	2.340	14.0	17.3
1 12	9 1.00	+13 3.0	1.413	2.348	9.5	17.0
1 22	8 51.73	+13 36.9	1.383	2.357	4.6	16.8
2 1	8 41.43	+14 18.2	1.381	2.365	1.9	16.6
2 11	8 31.52	+15 0.8	1.407	2.373	6.3	16.9
2 21	8 23.30	+15 39.7	1.459	2.381	11.0	17.2
3 2	8 17.70	+16 11.4	1.534	2.389	15.1	17.5

341539 2007 TE_{449} 1 29.4 49°.04 5°.0/ 2.1 18

12 23	9 6.20	+ 1 22.8	2.224	2.958	14.7	20.7
1 2	9 2.51	+ 1 9.6	2.139	2.964	12.2	20.5
1 12	8 56.89	+ 1 13.7	2.075	2.971	9.4	20.4
1 22	8 49.85	+ 1 35.5	2.035	2.977	6.6	20.2
2 1	8 42.13	+ 2 13.4	2.023	2.984	5.1	20.1
2 11	8 34.60	+ 3 4.1	2.040	2.991	6.1	20.2
2 21	8 28.09	+ 4 2.5	2.085	2.998	8.7	20.4
3 2	8 23.27	+ 5 3.7	2.155	3.006	11.5	20.6

445932 2013 AN_{11} 1 29.4 4°.93 0°.9/28.9 18

12 23	9 7.70	+16 28.5	1.140	1.970	20.3	21.0
1 2	9 5.59	+17 4.5	1.071	1.970	15.8	20.7
1 12	8 59.92	+17 58.0	1.021	1.970	10.5	20.4
1 22	8 51.44	+19 2.8	0.993	1.971	4.5	20.1
2 1	8 41.53	+20 9.7	0.990	1.973	2.1	19.9
2 11	8 32.05	+21 9.1	1.011	1.977	8.1	20.3
2 21	8 24.68	+21 54.3	1.055	1.981	13.7	20.6
3 2	8 20.60	+22 22.2	1.119	1.987	18.5	20.9

313188 2001 QG_{44} 1 29.4 154.°14 1.°3/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.37	+10 13.2	2.269	3.030	13.6	21.1
1 2	9 5.74	+10 55.0	2.182	3.038	10.8	20.9
1 12	8 59.04	+11 50.9	2.118	3.046	7.4	20.7
1 22	8 50.80	+12 57.8	2.082	3.053	3.6	20.5
2 1	8 41.79	+14 11.1	2.076	3.059	1.5	20.3
2 11	8 32.96	+15 25.2	2.101	3.065	4.8	20.6
2 21	8 25.20	+16 34.9	2.156	3.070	8.4	20.8
3 2	8 19.24	+17 36.6	2.237	3.074	11.6	21.0

44599 1999 RA_{2} 1 29.4 137.°27 1.°4/30.2 18

12 23	9 15.37	+12 1.1	1.674	2.452	17.1	19.7
1 2	9 10.23	+12 21.0	1.598	2.464	13.5	19.5
1 12	9 2.30	+12 56.0	1.544	2.476	9.1	19.2
1 22	8 52.28	+13 42.8	1.515	2.487	4.4	19.0
2 1	8 41.27	+14 36.1	1.514	2.498	1.7	18.8
2 11	8 30.64	+15 29.6	1.543	2.508	6.1	19.1
2 21	8 21.63	+16 18.1	1.600	2.517	10.6	19.4
3 2	8 15.17	+16 58.2	1.680	2.525	14.5	19.7

273060 2006 DM_{178} 1 29.4 141.°82 2.°5/31.4 18

12 23	9 7.99	+ 7 16.8	2.389	3.140	13.3	21.6
1 2	9 3.77	+ 7 39.5	2.300	3.147	10.7	21.5
1 12	8 57.67	+ 8 16.6	2.235	3.154	7.6	21.3
1 22	8 50.19	+ 9 6.2	2.197	3.161	4.3	21.1
2 1	8 42.02	+10 5.1	2.188	3.167	2.5	21.0
2 11	8 34.03	+11 8.7	2.210	3.173	4.7	21.1
2 21	8 27.01	+12 12.4	2.261	3.178	7.9	21.3
3 2	8 21.64	+13 12.1	2.339	3.184	10.9	21.5

39999 1998 HL_{84} 1 29.4 192.°92 2.°6/31.0 18

12 23	9 11.22	+ 8 44.4	1.993	2.756	15.2	19.9
1 2	9 6.73	+ 8 54.0	1.900	2.755	12.2	19.7
1 12	8 59.88	+ 9 18.7	1.829	2.753	8.6	19.5
1 22	8 51.23	+ 9 57.2	1.784	2.751	4.8	19.3
2 1	8 41.63	+10 46.0	1.768	2.748	2.6	19.1
2 11	8 32.19	+11 40.2	1.781	2.744	5.5	19.3
2 21	8 23.94	+12 34.8	1.823	2.741	9.4	19.5
3 2	8 17.74	+13 25.3	1.890	2.736	13.0	19.7

313035 2000 OW_{35} 1 29.4 255.°43 1.°0/28.7 18

12 23	9 10.02	+16 52.8	2.013	2.802	14.2	21.0
1 2	9 6.03	+17 45.0	1.911	2.788	11.1	20.7
1 12	8 59.58	+18 49.4	1.833	2.773	7.3	20.5
1 22	8 51.17	+20 1.5	1.782	2.758	3.2	20.2
2 1	8 41.63	+21 15.1	1.760	2.743	1.8	20.0
2 11	8 32.10	+22 23.5	1.768	2.727	6.1	20.3
2 21	8 23.70	+23 21.4	1.804	2.711	10.2	20.5
3 2	8 17.40	+24 6.0	1.864	2.694	13.9	20.7

329624 2003 QS_{110} 1 29.4 154.°55 2.°7/27.2 18

12 23	9 12.49	+26 2.8	2.827	3.610	10.7	21.8
1 2	9 7.02	+26 43.0	2.747	3.619	8.3	21.7
1 12	8 59.69	+27 24.4	2.693	3.628	5.6	21.5
1 22	8 51.02	+28 2.8	2.667	3.636	3.2	21.4
2 1	8 41.74	+28 34.1	2.673	3.644	3.1	21.4
2 11	8 32.70	+28 55.2	2.710	3.651	5.4	21.5
2 21	8 24.68	+29 5.0	2.776	3.657	8.1	21.7
3 2	8 18.31	+29 3.7	2.868	3.663	10.5	21.9

211974 2005 AA_{22} 1 29.4 2.°17 2.°3/30.4 18

12 23	9 7.44	+11 56.9	1.239	2.053	19.9	19.6
1 2	9 5.04	+11 52.5	1.165	2.052	15.8	19.4
1 12	8 59.38	+12 6.4	1.111	2.051	10.9	19.1
1 22	8 51.17	+12 36.5	1.078	2.051	5.5	18.8
2 1	8 41.67	+13 18.0	1.070	2.053	2.5	18.6
2 11	8 32.53	+14 4.0	1.087	2.055	7.2	18.9
2 21	8 25.28	+14 47.8	1.127	2.059	12.5	19.2
3 2	8 21.02	+15 24.2	1.189	2.063	17.1	19.5

276409 2002 YN_{2} 1 29.4 172.°04 23.°3/31.9 17

12 23	10 2.97	−20 59.9	1.409	1.934	29.2	22.0
1 2	9 49.94	−25 23.5	1.327	1.951	27.3	21.8
1 12	9 30.70	−29 24.8	1.264	1.962	25.4	21.6
1 22	9 5.52	−32 38.5	1.223	1.970	23.8	21.5
2 1	8 36.30	−34 39.1	1.209	1.972	23.3	21.5
2 11	8 6.61	−35 14.1	1.220	1.971	23.9	21.5
2 21	7 40.22	−34 31.8	1.256	1.965	25.4	21.6
3 2	7 19.67	−32 54.8	1.309	1.954	27.2	21.8

421346 2013 TY_{96} 1 29.4 46.°63 1.°7/28.5 18

12 23	9 13.32	+22 41.5	2.027	2.821	13.9	20.7
1 2	9 8.30	+22 48.3	1.945	2.824	10.8	20.5
1 12	9 0.84	+22 58.2	1.886	2.826	7.1	20.3
1 22	8 51.61	+23 7.3	1.854	2.829	3.3	20.0
2 1	8 41.56	+23 11.6	1.851	2.832	2.3	20.0
2 11	8 31.86	+23 8.2	1.878	2.835	6.0	20.2
2 21	8 23.58	+22 56.0	1.932	2.838	9.7	20.4
3 2	8 17.50	+22 35.2	2.011	2.841	13.0	20.6

231380 2006 JJ 1 29.4 316.°46 6.°4/ 1.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.96	+ 1 25.7	1.962	2.701	16.2	20.2
1 2	9 4.29	+ 0 37.4	1.864	2.691	13.6	20.0
1 12	8 58.33	+ 0 5.7	1.787	2.681	10.7	19.8
1 22	8 50.59	− 0 7.1	1.734	2.672	7.9	19.6
2 1	8 41.89	− 0 0.5	1.707	2.662	6.5	19.5
2 11	8 33.28	+ 0 23.5	1.707	2.653	7.6	19.5
2 21	8 25.77	+ 1 0.9	1.734	2.645	10.3	19.7
3 2	8 20.24	+ 1 46.2	1.785	2.636	13.4	19.8

165804 2001 RZ_{57} 1 29.4 69.°31 5.°1/25.9 18

12 23	9 12.31	+31 44.4	2.220	3.019	12.7	19.8
1 2	9 7.49	+32 38.1	2.152	3.029	10.0	19.6
1 12	9 0.28	+33 29.8	2.109	3.038	7.3	19.5
1 22	8 51.35	+34 13.0	2.092	3.048	5.3	19.4
2 1	8 41.66	+34 42.2	2.104	3.058	5.6	19.4
2 11	8 32.35	+34 53.9	2.145	3.068	7.8	19.5
2 21	8 24.44	+34 47.8	2.212	3.078	10.5	19.7
3 2	8 18.72	+34 25.8	2.302	3.088	13.0	19.9

357370 2003 SW_{184} 1 29.4 187.°78 0.°4/29.1 18

12 23	9 13.38	+16 53.1	2.052	2.834	14.2	22.2
1 2	9 8.40	+17 23.5	1.962	2.834	11.1	22.0
1 12	9 0.99	+18 3.6	1.895	2.833	7.3	21.8
1 22	8 51.72	+18 49.3	1.855	2.831	3.2	21.5
2 1	8 41.51	+19 35.6	1.845	2.829	1.4	21.4
2 11	8 31.48	+20 17.5	1.865	2.826	5.6	21.7
2 21	8 22.72	+20 51.4	1.914	2.822	9.6	21.9
3 2	8 16.08	+21 15.3	1.987	2.818	13.1	22.1

332007 2005 MD_{14} 1 29.4 111.°86 8.°6/ 5.2 18

12 23	9 7.80	−10 41.9	2.605	3.250	14.7	20.7
1 2	9 3.50	−11 41.4	2.519	3.258	13.0	20.5
1 12	8 57.44	−12 21.7	2.454	3.266	11.2	20.4
1 22	8 50.09	−12 40.2	2.410	3.274	9.6	20.3
2 1	8 42.10	−12 35.4	2.393	3.282	8.7	20.3
2 11	8 34.27	−12 8.5	2.401	3.290	8.8	20.3
2 21	8 27.32	−11 23.2	2.436	3.297	9.8	20.4
3 2	8 21.88	−10 24.5	2.495	3.304	11.4	20.5

165304 2000 UV_{20} 1 29.4 138.°01 1.°0/30.0 18

12 23	9 13.97	+13 2.1	1.941	2.714	15.2	21.4
1 2	9 8.78	+13 20.9	1.862	2.727	11.9	21.3
1 12	9 1.17	+13 51.9	1.806	2.739	8.0	21.0
1 22	8 51.76	+14 32.0	1.777	2.750	3.8	20.8
2 1	8 41.52	+15 16.7	1.777	2.761	1.4	20.6
2 11	8 31.60	+16 1.0	1.807	2.771	5.4	20.9
2 21	8 23.07	+16 40.7	1.866	2.780	9.5	21.2
3 2	8 16.73	+17 13.2	1.949	2.789	13.0	21.4

182444 2001 SQ_{26} 1 29.4 209.°24 1.°5/30.3 18

12 23	9 10.10	+12 16.7	1.888	2.669	15.3	20.6
1 2	9 6.00	+12 28.3	1.800	2.668	12.1	20.3
1 12	8 59.47	+12 53.1	1.734	2.667	8.3	20.1
1 22	8 51.09	+13 28.6	1.693	2.666	4.1	19.8
2 1	8 41.76	+14 10.9	1.681	2.665	1.7	19.7
2 11	8 32.63	+14 55.0	1.698	2.663	5.6	19.9
2 21	8 24.78	+15 36.4	1.743	2.662	9.7	20.2
3 2	8 19.08	+16 11.6	1.812	2.660	13.4	20.4

122419 2000 QB_{99} 1 29.4 24.°03 1.°7/30.4 18 R

12 23	9 4.69	+ 9 47.0	1.208	2.023	20.3	18.1
1 2	9 2.70	+10 30.6	1.154	2.041	15.9	17.9
1 12	8 57.64	+11 37.8	1.120	2.061	10.8	17.7
1 22	8 50.34	+13 3.3	1.108	2.082	5.3	17.4
2 1	8 42.06	+14 38.0	1.121	2.105	1.9	17.3
2 11	8 34.38	+16 11.4	1.160	2.129	6.8	17.7
2 21	8 28.58	+17 34.4	1.224	2.155	11.8	18.0
3 2	8 25.57	+18 41.6	1.310	2.182	16.0	18.3

31743 1999 JK_{79} 1 29.4 70.°95 3.°6/26.6 18

12 23	9 9.36	+26 5.4	2.269	3.069	12.5	17.8
1 2	9 5.14	+27 6.3	2.195	3.077	9.6	17.6
1 12	8 58.73	+28 10.0	2.147	3.085	6.5	17.4
1 22	8 50.71	+29 10.5	2.126	3.094	4.0	17.3
2 1	8 41.93	+30 2.0	2.134	3.102	4.1	17.3
2 11	8 33.42	+30 40.2	2.172	3.111	6.7	17.5
2 21	8 26.11	+31 3.0	2.237	3.119	9.7	17.7
3 2	8 20.75	+31 10.7	2.326	3.128	12.4	17.8

363180 2001 TL_{153} 1 29.4 123.°25 2.°6/31.2 18

12 23	9 10.83	+ 7 55.4	2.203	2.957	14.2	22.0
1 2	9 6.04	+ 8 9.6	2.124	2.972	11.4	21.8
1 12	8 59.21	+ 8 38.1	2.068	2.988	8.0	21.6
1 22	8 50.88	+ 9 19.0	2.038	3.002	4.5	21.4
2 1	8 41.88	+10 9.0	2.038	3.016	2.6	21.3
2 11	8 33.15	+11 3.6	2.068	3.030	5.0	21.5
2 21	8 25.56	+11 58.0	2.127	3.043	8.4	21.7
3 2	8 19.81	+12 48.6	2.212	3.056	11.5	22.0

163641 Nichol 1 29.4 155°.24 3°.3/ 1.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.27	+ 5 6.3	2.547	3.286	12.9	21.3
1 2	9 3.12	+ 5 12.2	2.455	3.291	10.5	21.1
1 12	8 57.22	+ 5 31.9	2.386	3.295	7.7	20.9
1 22	8 50.02	+ 6 4.8	2.343	3.299	4.8	20.8
2 1	8 42.19	+ 6 48.7	2.330	3.302	3.3	20.7
2 11	8 34.51	+ 7 39.9	2.347	3.305	4.8	20.8
2 21	8 27.71	+ 8 34.5	2.393	3.308	7.6	20.9
3 2	8 22.44	+ 9 28.4	2.466	3.311	10.4	21.1

92891 Bless 1 29.4 267°.53 0°.3/29.3 18

12 23	9 14.88	+18 8.9	1.549	2.349	17.2	19.7
1 2	9 10.39	+18 8.0	1.460	2.342	13.5	19.5
1 12	9 2.76	+18 16.0	1.393	2.334	9.0	19.2
1 22	8 52.65	+18 29.1	1.350	2.327	3.9	18.8
2 1	8 41.24	+18 42.6	1.335	2.319	1.5	18.7
2 11	8 30.08	+18 51.9	1.347	2.311	6.9	19.0
2 21	8 20.64	+18 54.3	1.385	2.303	11.8	19.2
3 2	8 14.02	+18 48.6	1.447	2.295	16.1	19.5

295397 2008 JT_8 1 29.4 219°.20 5°.5/25.8 18

12 23	9 13.22	+29 19.9	1.835	2.643	14.7	20.4
1 2	9 8.84	+30 32.1	1.759	2.642	11.5	20.1
1 12	9 1.58	+31 46.2	1.705	2.641	8.2	19.9
1 22	8 52.08	+32 53.7	1.678	2.640	5.8	19.8
2 1	8 41.45	+33 46.3	1.680	2.638	6.1	19.8
2 11	8 31.12	+34 18.4	1.708	2.637	9.0	20.0
2 21	8 22.39	+34 28.3	1.762	2.636	12.3	20.2
3 2	8 16.26	+34 18.0	1.838	2.635	15.4	20.4

103650 2000 CL_{37} 1 29.4 83°.06 0°.5/29.1 17

12 23	9 14.40	+15 53.0	1.382	2.187	18.8	20.0
1 2	9 10.00	+16 31.5	1.320	2.203	14.5	19.7
1 12	9 2.39	+17 24.6	1.277	2.220	9.6	19.5
1 22	8 52.41	+18 26.1	1.259	2.236	4.1	19.2
2 1	8 41.37	+19 28.3	1.269	2.253	1.7	19.1
2 11	8 30.90	+20 23.2	1.305	2.269	7.1	19.5
2 21	8 22.41	+21 6.0	1.367	2.285	12.0	19.8
3 2	8 16.89	+21 34.5	1.452	2.300	16.1	20.1

245970 2006 SZ_{98} 1 29.4 193°.67 0°.5/28.9 17

12 23	9 8.36	+18 26.1	3.007	3.781	10.3	21.9
1 2	9 3.77	+18 49.7	2.910	3.779	8.0	21.8
1 12	8 57.56	+19 18.6	2.840	3.776	5.2	21.6
1 22	8 50.16	+19 50.1	2.798	3.774	2.2	21.4
2 1	8 42.16	+20 21.2	2.787	3.770	1.1	21.3
2 11	8 34.30	+20 48.9	2.808	3.766	4.1	21.5
2 21	8 27.23	+21 11.2	2.858	3.762	7.0	21.7
3 2	8 21.54	+21 26.7	2.935	3.758	9.6	21.8

16553 1991 TL_{14} 1 29.4 216°.67 4°.0/27.2 18

12 23	9 16.94	+25 36.6	1.756	2.556	15.5	19.2
1 2	9 11.84	+26 27.7	1.668	2.549	12.1	19.0
1 12	9 3.66	+27 23.6	1.603	2.542	8.3	18.7
1 22	8 53.03	+28 16.8	1.564	2.534	4.7	18.5
2 1	8 41.11	+28 59.3	1.554	2.526	4.7	18.5
2 11	8 29.41	+29 25.2	1.572	2.517	8.2	18.7
2 21	8 19.37	+29 32.3	1.617	2.507	12.3	18.9
3 2	8 12.09	+29 21.9	1.684	2.497	15.9	19.1

121272 1999 RB_{115} 1 29.4 136°.91 0°.6/29.7 18

12 23	9 11.41	+15 24.0	2.145	2.924	13.8	20.3
1 2	9 6.66	+15 28.9	2.060	2.929	10.8	20.1
1 12	8 59.71	+15 42.5	1.999	2.934	7.2	19.9
1 22	8 51.15	+16 2.0	1.964	2.939	3.3	19.6
2 1	8 41.82	+16 24.3	1.959	2.944	1.1	19.5
2 11	8 32.76	+16 45.6	1.984	2.948	5.0	19.8
2 21	8 24.91	+17 3.4	2.038	2.952	8.8	20.0
3 2	8 19.01	+17 15.6	2.116	2.956	12.1	20.2

292103 2006 RM_{50} 1 29.4 52°.20 2°.0/27.9 18

12 23	9 9.31	+22 53.7	2.373	3.166	12.2	21.0
1 2	9 4.95	+23 22.7	2.290	3.169	9.4	20.8
1 12	8 58.54	+23 55.5	2.231	3.172	6.2	20.6
1 22	8 50.64	+24 27.9	2.200	3.175	3.0	20.4
2 1	8 42.04	+24 55.7	2.199	3.177	2.5	20.4
2 11	8 33.68	+25 15.4	2.228	3.180	5.5	20.6
2 21	8 26.43	+25 25.1	2.284	3.183	8.7	20.8
3 2	8 20.99	+25 24.6	2.366	3.186	11.6	21.0

417744 2007 DH_5 1 29.4 140°.95 1°.3/28.7 18

12 23	9 16.58	+21 51.4	2.157	2.939	13.6	21.2
1 2	9 10.61	+21 54.7	2.075	2.948	10.5	21.0
1 12	9 2.28	+22 1.2	2.018	2.956	6.9	20.8
1 22	8 52.25	+22 7.2	1.989	2.964	3.1	20.6
2 1	8 41.48	+22 9.1	1.990	2.972	1.9	20.5
2 11	8 31.10	+22 4.3	2.021	2.979	5.6	20.7
2 21	8 22.12	+21 51.8	2.082	2.985	9.2	21.0
3 2	8 15.30	+21 32.1	2.167	2.991	12.4	21.2

503145 2015 GE_{21} 1 29.4 290°.66 0°.3/29.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.35	+15 20.2	2.391	3.172	12.5	21.5
1 2	9 3.43	+15 38.0	2.296	3.166	9.7	21.3
1 12	8 57.57	+16 4.6	2.224	3.161	6.5	21.1
1 22	8 50.24	+16 37.4	2.180	3.155	2.9	20.9
2 1	8 42.17	+17 12.8	2.165	3.149	1.0	20.7
2 11	8 34.24	+17 47.2	2.180	3.144	4.7	21.0
2 21	8 27.27	+18 17.3	2.224	3.138	8.2	21.2
3 2	8 21.98	+18 41.1	2.293	3.133	11.3	21.4

453279 2008 TD_{46} 1 29.4 174°.03 3°.7/27.2 18

12 23	9 17.12	+24 59.2	1.923	2.717	14.6	22.3
1 2	9 11.60	+25 57.4	1.842	2.720	11.3	22.1
1 12	9 3.28	+27 0.3	1.785	2.723	7.7	21.9
1 22	8 52.81	+28 0.7	1.755	2.725	4.3	21.7
2 1	8 41.27	+28 51.1	1.755	2.727	4.3	21.7
2 11	8 30.02	+29 26.1	1.784	2.727	7.6	21.9
2 21	8 20.32	+29 43.4	1.841	2.727	11.2	22.1
3 2	8 13.13	+29 44.1	1.920	2.726	14.5	22.3

94541 2001 UF_{172} 1 29.4 315°.32 4°.0/31.4 18

12 23	9 10.68	+ 7 45.2	1.466	2.249	18.9	20.2
1 2	9 7.15	+ 7 31.8	1.382	2.246	15.3	19.9
1 12	9 0.63	+ 7 37.8	1.317	2.243	11.0	19.6
1 22	8 51.75	+ 8 2.8	1.275	2.240	6.6	19.4
2 1	8 41.63	+ 8 43.9	1.260	2.238	4.1	19.2
2 11	8 31.73	+ 9 35.6	1.271	2.235	7.1	19.4
2 21	8 23.44	+10 30.9	1.307	2.233	11.7	19.6
3 2	8 17.83	+11 23.8	1.367	2.231	16.0	19.9

36883 2000 SN_{156} 1 29.4 97°.10 0°.7/29.8 18

12 23	9 10.59	+14 24.6	1.972	2.755	14.7	19.4
1 2	9 6.22	+14 38.2	1.892	2.763	11.5	19.2
1 12	8 59.52	+15 2.5	1.834	2.770	7.7	19.0
1 22	8 51.12	+15 34.6	1.802	2.777	3.5	18.7
2 1	8 41.90	+16 10.4	1.800	2.784	1.2	18.6
2 11	8 32.97	+16 45.5	1.827	2.791	5.3	18.9
2 21	8 25.33	+17 16.1	1.881	2.798	9.3	19.1
3 2	8 19.77	+17 40.0	1.961	2.805	12.7	19.4

437824 2015 DC_{168} 1 29.4 349°.84 7°.8/25.1 18

12 23	9 15.92	+38 19.9	1.904	2.703	14.5	20.2
1 2	9 11.00	+39 8.8	1.831	2.699	11.9	20.0
1 12	9 3.00	+39 50.3	1.780	2.695	9.4	19.8
1 22	8 52.70	+40 15.9	1.754	2.691	7.9	19.7
2 1	8 41.37	+40 18.8	1.755	2.689	8.3	19.7
2 11	8 30.56	+39 56.0	1.782	2.686	10.3	19.9
2 21	8 21.63	+39 9.2	1.833	2.685	13.0	20.0
3 2	8 15.54	+38 3.0	1.907	2.683	15.6	20.2

285758 2000 UM_{18} 1 29.4 131°.31 5°.8/25.2 18

12 23	9 16.10	+34 2.8	2.309	3.099	12.6	21.0
1 2	9 10.43	+35 10.0	2.244	3.112	10.0	20.9
1 12	9 2.27	+36 13.9	2.203	3.124	7.5	20.7
1 22	8 52.30	+37 7.2	2.190	3.136	5.9	20.7
2 1	8 41.52	+37 43.7	2.206	3.147	6.3	20.7
2 11	8 31.12	+38 0.2	2.250	3.158	8.3	20.8
2 21	8 22.20	+37 56.5	2.321	3.169	10.8	21.0
3 2	8 15.54	+37 35.2	2.415	3.178	13.1	21.2

466866 2015 BV_{413} 1 29.4 263°.21 2°.6/27.8 18

12 23	9 11.85	+24 43.9	2.230	3.024	12.8	21.2
1 2	9 7.11	+25 8.0	2.142	3.021	9.9	21.0
1 12	9 0.09	+25 34.6	2.079	3.018	6.6	20.8
1 22	8 51.38	+25 59.0	2.043	3.016	3.5	20.6
2 1	8 41.84	+26 16.9	2.036	3.013	3.1	20.5
2 11	8 32.57	+26 24.7	2.059	3.010	6.1	20.7
2 21	8 24.53	+26 21.2	2.110	3.007	9.5	20.9
3 2	8 18.51	+26 6.7	2.186	3.004	12.5	21.1

322124 2010 VH_{171} 1 29.4 165°.59 0°.3/29.2 18

12 23	9 12.66	+16 59.8	2.278	3.055	13.1	21.9
1 2	9 7.56	+17 24.6	2.191	3.061	10.2	21.7
1 12	9 0.30	+17 57.5	2.129	3.065	6.7	21.5
1 22	8 51.45	+18 34.9	2.093	3.069	2.9	21.2
2 1	8 41.82	+19 12.7	2.089	3.073	1.2	21.1
2 11	8 32.42	+19 46.7	2.115	3.075	5.1	21.4
2 21	8 24.16	+20 14.1	2.169	3.077	8.7	21.6
3 2	8 17.80	+20 33.2	2.250	3.079	11.8	21.8

194146 2001 SE_{337} 1 29.4 31°.76 1°.4/28.9 18

12 23	9 12.73	+19 44.1	1.050	1.885	21.3	20.1
1 2	9 9.49	+19 54.9	0.999	1.899	16.5	19.9
1 12	9 2.41	+20 16.5	0.966	1.915	10.8	19.6
1 22	8 52.51	+20 42.4	0.955	1.933	4.7	19.3
2 1	8 41.48	+21 5.1	0.968	1.951	2.5	19.3
2 11	8 31.36	+21 18.4	1.005	1.970	8.3	19.7
2 21	8 23.75	+21 19.7	1.065	1.991	13.7	20.0
3 2	8 19.67	+21 8.9	1.145	2.012	18.2	20.4

109734 2001 RM_{61} 1 29.4 154°.07 2°.2/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.07	+ 8 4.3	2.235	2.990	14.0	20.9
1 2	9 5.56	+ 8 30.8	2.147	2.997	11.2	20.7
1 12	8 58.99	+ 9 12.2	2.082	3.004	7.9	20.5
1 22	8 50.89	+10 6.5	2.044	3.010	4.3	20.3
2 1	8 42.02	+11 9.9	2.035	3.015	2.3	20.2
2 11	8 33.33	+12 17.1	2.057	3.021	4.9	20.4
2 21	8 25.72	+13 23.2	2.109	3.025	8.4	20.6
3 2	8 19.90	+14 24.0	2.186	3.029	11.6	20.8

309348 2007 TH_{49} 1 29.4 52°.99 0°.4/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.73	+17 31.5	1.386	2.195	18.5	21.3
1 2	9 9.42	+17 45.8	1.326	2.212	14.3	21.0
1 12	9 1.97	+18 11.1	1.287	2.230	9.4	20.8
1 22	8 52.25	+18 42.5	1.271	2.248	4.0	20.5
2 1	8 41.58	+19 13.8	1.282	2.266	1.6	20.4
2 11	8 31.55	+19 39.5	1.321	2.285	6.9	20.8
2 21	8 23.52	+19 56.2	1.384	2.304	11.7	21.1
3 2	8 18.39	+20 2.6	1.470	2.323	15.7	21.4

54745 2001 KS_{38} 1 29.4 116°.03 0°.1/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.19	+15 27.3	2.173	2.947	13.8	20.0
1 2	9 7.92	+16 4.2	2.101	2.969	10.6	19.8
1 12	9 0.48	+16 50.7	2.054	2.989	7.0	19.7
1 22	8 51.50	+17 42.8	2.034	3.009	3.0	19.4
2 1	8 41.83	+18 35.5	2.045	3.029	1.1	19.3
2 11	8 32.52	+19 24.2	2.086	3.047	5.1	19.6
2 21	8 24.46	+20 5.4	2.157	3.065	8.7	19.9
3 2	8 18.38	+20 37.0	2.253	3.083	11.8	20.1

86836 2000 GE_{160} 1 29.4 283°.16 0°.2/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.54	+16 48.6	1.459	2.263	17.9	20.2
1 2	9 9.58	+16 52.3	1.371	2.254	14.1	20.0
1 12	9 2.38	+17 7.5	1.303	2.245	9.5	19.7
1 22	8 52.59	+17 30.5	1.260	2.236	4.2	19.3
2 1	8 41.39	+17 56.0	1.243	2.227	1.5	19.1
2 11	8 30.41	+18 18.6	1.253	2.218	7.1	19.4
2 21	8 21.16	+18 34.3	1.288	2.209	12.3	19.7
3 2	8 14.83	+18 41.0	1.346	2.200	16.8	20.0

433931 2015 CS_{20} 1 29.4 18°.21 0°.9/30.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.22	+13 51.1	2.085	2.867	14.0	20.8
1 2	9 4.32	+14 2.6	1.998	2.869	11.0	20.6
1 12	8 58.27	+14 24.7	1.935	2.870	7.4	20.4
1 22	8 50.59	+14 54.9	1.898	2.872	3.5	20.1
2 1	8 42.13	+15 29.6	1.890	2.874	1.2	20.0
2 11	8 33.89	+16 4.6	1.911	2.876	5.1	20.2
2 21	8 26.80	+16 36.3	1.961	2.879	8.9	20.5
3 2	8 21.61	+17 2.1	2.035	2.881	12.2	20.7

32374 2000 QK_{169} 1 29.4 269°.02 0°.3/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.08	+16 16.3	2.422	3.201	12.4	19.1
1 2	9 4.70	+16 20.0	2.329	3.198	9.7	18.9
1 12	8 58.38	+16 30.8	2.259	3.195	6.4	18.7
1 22	8 50.61	+16 46.3	2.217	3.192	2.9	18.4
2 1	8 42.13	+17 3.6	2.205	3.189	1.0	18.3
2 11	8 33.83	+17 19.9	2.223	3.186	4.6	18.6
2 21	8 26.54	+17 32.8	2.270	3.183	8.1	18.8
3 2	8 20.94	+17 40.6	2.343	3.180	11.1	19.0

249026 2007 RW_{262} 1 29.4 94°.66 0°.1/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.75	+16 32.8	1.673	2.463	16.6	21.2
1 2	9 10.46	+16 48.3	1.608	2.483	12.9	21.0
1 12	9 2.42	+17 13.9	1.564	2.503	8.5	20.7
1 22	8 52.39	+17 45.5	1.546	2.522	3.7	20.5
2 1	8 41.54	+18 17.8	1.557	2.541	1.3	20.4
2 11	8 31.22	+18 45.9	1.596	2.560	6.1	20.7
2 21	8 22.63	+19 6.7	1.663	2.578	10.4	21.0
3 2	8 16.59	+19 18.8	1.754	2.595	14.1	21.3

378933 2008 UC_{127} 1 29.4 303°.96 3°.7/26.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.68	+25 47.4	2.058	2.863	13.4	20.8
1 2	9 5.80	+26 40.7	1.968	2.852	10.4	20.6
1 12	8 59.45	+27 38.0	1.902	2.842	7.1	20.4
1 22	8 51.19	+28 33.4	1.863	2.832	4.2	20.2
2 1	8 41.91	+29 20.3	1.852	2.822	4.3	20.2
2 11	8 32.79	+29 53.6	1.870	2.812	7.3	20.3
2 21	8 24.93	+30 10.8	1.914	2.803	10.7	20.5
3 2	8 19.22	+30 12.0	1.982	2.794	13.9	20.7

503729 2016 LE_5 1 29.4 213°.11 3°.4/ 1.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.43	+ 3 23.0	2.646	3.377	12.6	22.1
1 2	9 2.51	+ 3 39.7	2.544	3.373	10.4	21.9
1 12	8 56.88	+ 4 11.8	2.464	3.368	7.7	21.7
1 22	8 49.96	+ 4 58.4	2.411	3.363	5.0	21.6
2 1	8 42.36	+ 5 57.4	2.387	3.357	3.5	21.5
2 11	8 34.84	+ 7 4.8	2.394	3.352	4.8	21.5
2 21	8 28.12	+ 8 16.0	2.431	3.346	7.5	21.7
3 2	8 22.83	+ 9 26.6	2.494	3.340	10.3	21.9

379934 2012 LN_4 1 29.4 216°.61 3°.5/31.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.54	+ 5 26.6	2.556	3.292	12.9	22.0
1 2	9 4.98	+ 5 18.8	2.451	3.284	10.6	21.8
1 12	8 58.55	+ 5 23.9	2.368	3.275	7.8	21.6
1 22	8 50.71	+ 5 41.7	2.312	3.266	5.0	21.4
2 1	8 42.11	+ 6 10.8	2.285	3.256	3.5	21.3
2 11	8 33.57	+ 6 48.3	2.289	3.245	5.1	21.4
2 21	8 25.89	+ 7 30.5	2.322	3.234	8.0	21.5
3 2	8 19.77	+ 8 13.9	2.381	3.223	10.8	21.7

316578 2011 SV_{254} 1 29.4 30°.20 0°.8/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.20	+14 16.0	1.371	2.177	18.8	20.6
1 2	9 7.71	+14 30.0	1.297	2.181	14.7	20.4
1 12	9 1.05	+14 59.4	1.244	2.185	9.9	20.1
1 22	8 51.96	+15 40.6	1.214	2.190	4.5	19.8
2 1	8 41.67	+16 27.4	1.210	2.194	1.5	19.6
2 11	8 31.78	+17 13.0	1.233	2.200	6.9	20.0
2 21	8 23.72	+17 51.7	1.281	2.205	12.0	20.3
3 2	8 18.56	+18 20.2	1.351	2.211	16.4	20.6

426961 2013 YJ_{56} 1 29.4 78°.24 0°.9/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.00	+20 16.5	2.333	3.120	12.6	21.3
1 2	9 6.18	+20 24.5	2.253	3.128	9.7	21.1
1 12	8 59.33	+20 37.0	2.196	3.135	6.4	20.9
1 22	8 51.01	+20 50.8	2.167	3.143	2.8	20.7
2 1	8 42.04	+21 2.6	2.168	3.151	1.5	20.6
2 11	8 33.37	+21 9.5	2.199	3.159	5.0	20.8
2 21	8 25.86	+21 10.1	2.259	3.167	8.4	21.1
3 2	8 20.18	+21 3.8	2.344	3.174	11.4	21.3

353259 2010 EK_{86} 1 29.4 235°.77 2°.9/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.97	+23 21.3	1.693	2.495	15.9	21.6
1 2	9 11.15	+23 54.0	1.604	2.487	12.4	21.3
1 12	9 3.26	+24 32.5	1.537	2.478	8.3	21.1
1 22	8 52.94	+25 10.5	1.495	2.469	4.2	20.8
2 1	8 41.33	+25 41.2	1.482	2.460	3.5	20.7
2 11	8 29.95	+25 59.1	1.497	2.451	7.6	21.0
2 21	8 20.22	+26 1.8	1.539	2.441	12.0	21.2
3 2	8 13.24	+25 50.0	1.603	2.431	15.9	21.4

433007 2012 RS_6 1 29.4 105°.18 4°.6/ 2.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.30	− 0 14.6	2.886	3.588	12.3	21.3
1 2	9 3.59	− 0 31.9	2.808	3.611	10.2	21.2
1 12	8 57.38	− 0 35.1	2.753	3.633	8.0	21.1
1 22	8 50.11	− 0 24.0	2.725	3.655	5.8	21.0
2 1	8 42.38	+ 0 0.2	2.725	3.676	4.7	20.9
2 11	8 34.87	+ 0 35.4	2.756	3.697	5.3	21.0
2 21	8 28.21	+ 1 17.9	2.816	3.718	7.2	21.1
3 2	8 22.91	+ 2 4.3	2.902	3.738	9.3	21.3

275017 2009 UY_{22} 1 29.4 26°.61 7°.5/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.66	+35 14.9	1.874	2.680	14.5	20.1
1 2	9 9.31	+36 38.4	1.807	2.682	11.7	19.9
1 12	9 1.96	+37 58.3	1.763	2.684	9.1	19.8
1 22	8 52.32	+39 5.4	1.745	2.687	7.5	19.7
2 1	8 41.57	+39 51.4	1.754	2.690	8.1	19.7
2 11	8 31.21	+40 11.4	1.789	2.693	10.4	19.9
2 21	8 22.58	+40 5.6	1.848	2.696	13.1	20.1
3 2	8 16.68	+39 37.3	1.929	2.699	15.7	20.2

152530 2006 YY_{14} 1 29.4 28°.79 0°.7/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.05	+12 23.3	1.414	2.221	18.3	19.8
1 2	9 4.30	+13 8.1	1.348	2.232	14.3	19.6
1 12	8 58.67	+14 11.8	1.303	2.245	9.6	19.4
1 22	8 50.89	+15 29.1	1.282	2.258	4.3	19.1
2 1	8 42.09	+16 52.2	1.288	2.272	1.4	18.9
2 11	8 33.72	+18 12.3	1.320	2.287	6.5	19.3
2 21	8 27.04	+19 22.1	1.378	2.302	11.3	19.6
3 2	8 22.97	+20 17.5	1.459	2.319	15.4	19.9

88271 2001 LO_8 1 29.4 336°.09 5°.5/31.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.29	+ 7 20.9	1.610	2.381	17.9	18.3
1 2	9 8.14	+ 6 17.4	1.521	2.375	14.7	18.0
1 12	9 1.17	+ 5 27.5	1.452	2.369	11.0	17.8
1 22	8 52.00	+ 4 52.9	1.408	2.364	7.3	17.5
2 1	8 41.68	+ 4 34.6	1.390	2.360	5.5	17.4
2 11	8 31.58	+ 4 30.9	1.399	2.356	7.6	17.5
2 21	8 22.97	+ 4 38.6	1.434	2.352	11.5	17.7
3 2	8 16.87	+ 4 53.2	1.492	2.349	15.3	18.0

238063 2003 EG 1 29.4 74°.03 18°.9/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	10 59.96	+60 6.1	1.319	1.980	26.0	19.7
1 2	10 36.77	+63 9.6	1.331	2.058	23.1	19.7
1 12	10 1.22	+65 25.9	1.362	2.132	20.7	19.7
1 22	9 17.18	+66 20.9	1.415	2.202	19.3	19.8
2 1	8 33.85	+65 41.7	1.492	2.268	19.0	20.0
2 11	7 59.78	+63 46.8	1.591	2.331	19.5	20.2
2 21	7 37.54	+61 9.1	1.712	2.390	20.5	20.5
3 2	7 25.59	+58 15.7	1.850	2.446	21.4	20.7

467715 2009 BJ_{34} 1 29.4 65°.68 0°.9/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.76	+17 6.7	2.204	2.993	13.1	21.0
1 2	9 3.88	+17 58.6	2.127	3.003	10.1	20.8
1 12	8 57.93	+19 0.0	2.073	3.013	6.6	20.6
1 22	8 50.47	+20 6.3	2.047	3.024	2.8	20.4
2 1	8 42.27	+21 12.1	2.051	3.034	1.6	20.3
2 11	8 34.30	+22 12.1	2.085	3.044	5.3	20.5
2 21	8 27.45	+23 2.3	2.147	3.055	8.8	20.8
3 2	8 22.42	+23 40.9	2.235	3.065	11.9	21.0

240573 2004 TM_{44} 1 29.4 262°.12 2°.7/30.8 18

12 23	9 11.82	+10 32.5	1.616	2.399	17.4	20.8
1 2	9 7.90	+10 26.6	1.523	2.390	14.0	20.5
1 12	9 1.11	+10 36.4	1.450	2.380	9.8	20.2
1 22	8 52.03	+11 0.5	1.401	2.371	5.3	19.9
2 1	8 41.68	+11 35.9	1.380	2.361	2.8	19.8
2 11	8 31.46	+12 17.3	1.386	2.351	6.5	20.0
2 21	8 22.70	+12 59.3	1.419	2.342	11.2	20.2
3 2	8 16.46	+13 37.4	1.475	2.332	15.4	20.4

240366 2003 SO_{147} 1 29.4 52°.64 10°.8/24.2 18

12 23	9 26.12	+47 46.8	1.875	2.646	15.7	19.6
1 2	9 19.08	+48 50.9	1.832	2.665	13.6	19.5
1 12	9 8.30	+49 38.7	1.810	2.683	11.8	19.4
1 22	8 54.94	+50 0.0	1.812	2.702	10.9	19.4
2 1	8 40.79	+49 48.3	1.838	2.721	11.2	19.5
2 11	8 27.81	+49 3.1	1.890	2.740	12.6	19.6
2 21	8 17.54	+47 49.3	1.964	2.760	14.5	19.8
3 2	8 10.82	+46 14.8	2.058	2.779	16.4	20.0

139606 2001 QJ_{127} 1 29.4 247°.37 3°.1/31.1 18

12 23	9 11.93	+ 9 2.7	2.050	2.810	14.9	20.7
1 2	9 7.38	+ 8 45.8	1.944	2.796	12.1	20.5
1 12	9 0.45	+ 8 41.5	1.861	2.782	8.7	20.3
1 22	8 51.66	+ 8 49.4	1.804	2.768	5.1	20.0
2 1	8 41.83	+ 9 7.7	1.775	2.753	3.2	19.9
2 11	8 32.04	+ 9 33.4	1.776	2.738	5.8	20.0
2 21	8 23.37	+10 2.8	1.805	2.722	9.6	20.2
3 2	8 16.70	+10 32.0	1.859	2.706	13.2	20.4

431546 2007 TK_{433} 1 29.4 43°.99 11°.2/21.4 18

12 23	9 18.96	+47 56.4	1.946	2.724	15.0	20.4
1 2	9 13.80	+49 38.7	1.907	2.741	13.1	20.3
1 12	9 5.07	+51 5.9	1.891	2.758	11.7	20.2
1 22	8 53.67	+52 7.6	1.898	2.775	11.2	20.2
2 1	8 41.18	+52 36.5	1.930	2.792	11.8	20.3
2 11	8 29.46	+52 30.6	1.985	2.810	13.1	20.4
2 21	8 20.08	+51 53.3	2.060	2.828	14.8	20.6
3 2	8 14.04	+50 51.2	2.155	2.847	16.5	20.7

79294 1995 UR_{42} 1 29.4 187°.30 1°.0/30.2 17

12 23	9 7.96	+13 14.2	2.723	3.488	11.5	20.8
1 2	9 3.63	+13 25.6	2.627	3.488	9.0	20.6
1 12	8 57.58	+13 45.5	2.557	3.487	6.1	20.4
1 22	8 50.28	+14 11.9	2.514	3.486	2.9	20.2
2 1	8 42.35	+14 42.1	2.502	3.485	1.1	20.1
2 11	8 34.57	+15 13.3	2.520	3.484	4.1	20.3
2 21	8 27.63	+15 42.4	2.568	3.482	7.2	20.5
3 2	8 22.16	+16 7.5	2.643	3.480	10.0	20.7

340676 2006 RY_{57} 1 29.4 170°.34 3°.2/26.9 17

12 23	9 11.30	+27 44.0	2.678	3.467	11.1	21.5
1 2	9 6.34	+28 20.0	2.594	3.469	8.6	21.4
1 12	8 59.43	+28 56.4	2.536	3.471	5.9	21.2
1 22	8 51.10	+29 28.7	2.506	3.472	3.6	21.0
2 1	8 42.10	+29 52.8	2.506	3.473	3.6	21.0
2 11	8 33.32	+30 5.6	2.536	3.474	5.9	21.2
2 21	8 25.61	+30 6.2	2.595	3.475	8.6	21.4
3 2	8 19.61	+29 55.1	2.678	3.476	11.1	21.5

143037 2002 VU_{121} 1 29.4 117°.35 1°.4/28.7 18

12 23	9 15.60	+21 12.4	1.836	2.630	15.2	19.9
1 2	9 10.33	+21 21.9	1.758	2.637	11.8	19.6
1 12	9 2.38	+21 36.4	1.703	2.643	7.8	19.4
1 22	8 52.46	+21 51.6	1.674	2.650	3.4	19.2
2 1	8 41.64	+22 3.0	1.674	2.656	2.1	19.1
2 11	8 31.23	+22 6.9	1.703	2.662	6.2	19.4
2 21	8 22.41	+22 1.7	1.760	2.668	10.3	19.6
3 2	8 16.02	+21 47.7	1.841	2.674	13.9	19.9

130781 2000 TF_{4} 1 29.4 19°.74 1°.2/28.9 18

12 23	9 10.63	+18 46.4	1.203	2.030	19.7	19.5
1 2	9 7.68	+19 6.1	1.139	2.035	15.3	19.3
1 12	9 1.23	+19 37.8	1.093	2.041	10.1	19.0
1 22	8 52.12	+20 15.6	1.071	2.048	4.4	18.7
2 1	8 41.75	+20 52.0	1.073	2.057	2.2	18.6
2 11	8 31.96	+21 20.1	1.101	2.066	7.8	18.9
2 21	8 24.30	+21 35.9	1.152	2.076	13.1	19.3
3 2	8 19.85	+21 38.4	1.224	2.086	17.6	19.6

246601 2008 UC_{329} 1 29.4 179°.86 1°.9/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.48	+11 52.3	1.912	2.679	15.6	21.9
1 2	9 10.17	+11 51.4	1.822	2.681	12.4	21.7
1 12	9 2.29	+12 2.9	1.754	2.683	8.6	21.5
1 22	8 52.46	+12 24.7	1.713	2.683	4.4	21.2
2 1	8 41.63	+12 53.5	1.700	2.683	2.0	21.0
2 11	8 31.03	+13 25.2	1.718	2.681	5.7	21.3
2 21	8 21.78	+13 55.7	1.764	2.680	9.8	21.5
3 2	8 14.81	+14 22.0	1.835	2.677	13.5	21.7

1987 Kaplan 1 29.4 112°.04 1°.6/28.9 18 R

12 23	9 26.39	+23 49.6	1.840	2.617	15.8	15.8
1 2	9 18.36	+23 31.6	1.769	2.638	12.3	15.6
1 12	9 7.46	+23 14.0	1.722	2.657	8.1	15.4
1 22	8 54.56	+22 52.8	1.702	2.677	3.7	15.1
2 1	8 40.97	+22 24.6	1.713	2.695	2.2	15.1
2 11	8 28.15	+21 48.4	1.756	2.713	6.3	15.4
2 21	8 17.31	+21 5.3	1.828	2.730	10.4	15.7
3 2	8 9.28	+20 17.3	1.925	2.747	13.8	15.9

182554 2001 TO_{111} 1 29.4 115°.65 0°.6/29.8 18

12 23	9 12.49	+14 57.3	1.997	2.777	14.6	20.8
1 2	9 7.65	+15 7.1	1.918	2.787	11.4	20.6
1 12	9 0.49	+15 26.8	1.863	2.798	7.6	20.4
1 22	8 51.62	+15 53.4	1.834	2.808	3.5	20.2
2 1	8 41.96	+16 22.9	1.834	2.818	1.1	20.0
2 11	8 32.64	+16 51.4	1.864	2.828	5.3	20.3
2 21	8 24.63	+17 15.4	1.922	2.837	9.2	20.6
3 2	8 18.73	+17 33.1	2.005	2.846	12.6	20.8

280192 2002 SM_{46} 1 29.4 61°.54 3°.9/ 1.2 18

12 23	9 9.18	+ 4 56.9	2.051	2.801	15.3	20.4
1 2	9 4.85	+ 4 53.6	1.986	2.827	12.3	20.3
1 12	8 58.49	+ 5 6.8	1.942	2.853	9.0	20.1
1 22	8 50.69	+ 5 35.5	1.923	2.879	5.7	20.0
2 1	8 42.30	+ 6 16.8	1.933	2.905	3.9	19.9
2 11	8 34.29	+ 7 6.4	1.972	2.932	5.5	20.1
2 21	8 27.50	+ 7 59.3	2.039	2.958	8.6	20.3
3 2	8 22.59	+ 8 51.2	2.132	2.984	11.5	20.5

408447 2013 HN_{23} 1 29.4 251°.48 0°.4/29.7 18

12 23	9 10.87	+14 1.0	1.757	2.546	16.0	21.3
1 2	9 7.00	+14 32.6	1.663	2.537	12.6	21.1
1 12	9 0.45	+15 18.7	1.591	2.528	8.5	20.8
1 22	8 51.76	+16 15.8	1.544	2.519	3.8	20.5
2 1	8 41.88	+17 18.2	1.525	2.510	1.2	20.3
2 11	8 32.10	+18 19.2	1.536	2.500	6.1	20.6
2 21	8 23.66	+19 13.2	1.573	2.490	10.7	20.8
3 2	8 17.57	+19 56.5	1.634	2.480	14.7	21.1

457718 2009 FA_{55} 1 29.4 247°.51 1°.6/28.5 18

12 23	9 12.85	+19 41.4	1.908	2.702	14.7	22.4
1 2	9 8.45	+20 19.7	1.809	2.688	11.5	22.1
1 12	9 1.37	+21 7.1	1.733	2.674	7.6	21.9
1 22	8 52.16	+21 58.8	1.684	2.660	3.4	21.6
2 1	8 41.74	+22 48.6	1.664	2.645	2.3	21.5
2 11	8 31.40	+23 30.6	1.673	2.630	6.5	21.7
2 21	8 22.34	+24 1.0	1.709	2.614	10.8	21.9
3 2	8 15.60	+24 18.2	1.769	2.598	14.5	22.1

468000 2012 UV_{86} 1 29.4 149°.71 8°.0/ 6.5 17

12 23	9 7.50	−14 48.1	3.213	3.812	12.8	22.1
1 2	9 3.02	−15 36.8	3.124	3.820	11.5	22.0
1 12	8 57.08	−16 7.9	3.054	3.829	10.2	21.9
1 22	8 50.06	−16 19.0	3.007	3.836	8.9	21.8
2 1	8 42.52	−16 9.2	2.985	3.844	8.2	21.8
2 11	8 35.10	−15 39.3	2.989	3.851	8.1	21.8
2 21	8 28.38	−14 52.3	3.020	3.857	8.8	21.8
3 2	8 22.90	−13 52.4	3.075	3.864	10.0	21.9

239471 2007 UZ_{8} 1 29.4 127°.12 2°.5/31.5 18

12 23	9 7.48	+ 7 14.9	2.592	3.339	12.5	21.3
1 2	9 3.29	+ 7 29.4	2.505	3.349	10.0	21.2
1 12	8 57.38	+ 7 56.6	2.442	3.358	7.1	21.0
1 22	8 50.22	+ 8 35.2	2.405	3.367	4.2	20.8
2 1	8 42.47	+ 9 22.3	2.399	3.376	2.5	20.7
2 11	8 34.90	+10 14.3	2.423	3.385	4.4	20.9
2 21	8 28.22	+11 7.4	2.477	3.393	7.3	21.1
3 2	8 23.04	+11 57.9	2.557	3.401	10.1	21.2

284811 2008 YT_{137} 1 29.4 205°.87 3°.1/31.3 17

12 23	9 12.46	+ 8 17.8	2.775	3.511	12.0	21.0
1 2	9 7.02	+ 7 39.5	2.671	3.507	9.7	20.8
1 12	8 59.81	+ 7 9.5	2.593	3.503	7.1	20.6
1 22	8 51.29	+ 6 48.0	2.542	3.498	4.4	20.4
2 1	8 42.11	+ 6 34.6	2.522	3.493	3.2	20.3
2 11	8 33.06	+ 6 28.1	2.533	3.488	4.8	20.4
2 21	8 24.88	+ 6 26.7	2.575	3.482	7.5	20.6
3 2	8 18.20	+ 6 28.5	2.643	3.476	10.2	20.8

109256 2001 QQ_{105} 1 29.4 117°.25 4°.9/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.79	+35 3.9	2.957	3.738	10.3	20.2
1 2	9 8.11	+36 1.5	2.896	3.757	8.2	20.1
1 12	9 0.52	+36 55.0	2.861	3.777	6.2	19.9
1 22	8 51.56	+37 39.3	2.854	3.796	5.0	19.9
2 1	8 42.03	+38 10.0	2.878	3.814	5.3	19.9
2 11	8 32.83	+38 24.7	2.931	3.832	6.9	20.1
2 21	8 24.75	+38 23.4	3.011	3.849	8.8	20.2
3 2	8 18.43	+38 7.6	3.116	3.866	10.7	20.4

463256 2012 FU_{80} 1 29.4 300°.00 11°.8/ 8.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.23	−16 36.0	1.867	2.504	20.0	21.2
1 2	9 4.28	−16 47.3	1.747	2.476	18.3	21.0
1 12	8 58.77	−16 24.2	1.642	2.448	16.2	20.8
1 22	8 51.11	−15 19.8	1.556	2.420	14.0	20.6
2 1	8 42.10	−13 30.1	1.493	2.392	12.3	20.4
2 11	8 32.89	−10 57.3	1.455	2.364	11.9	20.3
2 21	8 24.71	− 7 50.2	1.444	2.336	13.4	20.3
3 2	8 18.66	− 4 22.9	1.459	2.308	16.0	20.4

467468 2006 PM_{16} 1 29.4 176°.51 3°.2/26.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.85	+29 47.7	3.122	3.902	9.8	22.3
1 2	9 7.26	+30 19.2	3.036	3.905	7.7	22.1
1 12	8 59.91	+30 49.6	2.977	3.906	5.4	22.0
1 22	8 51.31	+31 14.7	2.946	3.908	3.5	21.8
2 1	8 42.12	+31 31.2	2.946	3.908	3.6	21.8
2 11	8 33.15	+31 36.7	2.978	3.909	5.5	22.0
2 21	8 25.12	+31 30.6	3.038	3.908	7.8	22.1
3 2	8 18.66	+31 13.6	3.125	3.907	10.0	22.3

199078 2005 XB_{74} 1 29.4 14°.86 5°.6/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.11	+25 43.6	1.125	1.965	19.9	19.6
1 2	9 8.57	+26 48.4	1.065	1.968	15.5	19.4
1 12	9 2.11	+27 59.8	1.024	1.972	10.6	19.1
1 22	8 52.61	+29 7.0	1.005	1.977	6.3	18.9
2 1	8 41.65	+29 58.2	1.010	1.983	6.4	18.9
2 11	8 31.33	+30 25.3	1.040	1.990	10.6	19.1
2 21	8 23.43	+30 26.6	1.091	1.998	15.3	19.4
3 2	8 19.15	+30 4.9	1.162	2.007	19.5	19.7

266852 2009 UB_{87} 1 29.4 134°.46 1°.2/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.03	+12 14.7	2.371	3.135	13.1	21.7
1 2	9 6.16	+12 30.4	2.289	3.148	10.2	21.5
1 12	8 59.34	+12 56.5	2.231	3.160	7.0	21.4
1 22	8 51.09	+13 30.7	2.200	3.171	3.4	21.1
2 1	8 42.19	+14 9.6	2.199	3.182	1.4	21.0
2 11	8 33.53	+14 49.3	2.229	3.193	4.6	21.3
2 21	8 25.95	+15 26.5	2.288	3.203	8.0	21.5
3 2	8 20.10	+15 58.5	2.374	3.212	11.0	21.7

177969 2006 PM_{40} 1 29.4 53°.70 0°.5/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.37	+13 32.4	1.408	2.208	18.7	19.8
1 2	9 8.22	+14 9.8	1.355	2.236	14.4	19.6
1 12	9 1.13	+15 3.2	1.323	2.263	9.6	19.4
1 22	8 51.94	+16 7.0	1.316	2.291	4.2	19.2
2 1	8 41.93	+17 13.7	1.335	2.320	1.3	19.0
2 11	8 32.57	+18 15.7	1.382	2.348	6.5	19.4
2 21	8 25.10	+19 7.5	1.455	2.376	11.1	19.8
3 2	8 20.37	+19 46.3	1.551	2.405	15.0	20.1

421501 2014 OZ_{72} 1 29.4 181°.34 0°.3/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.67	+14 56.8	2.012	2.789	14.6	22.7
1 2	9 8.71	+15 19.2	1.922	2.790	11.5	22.5
1 12	9 1.31	+15 52.5	1.856	2.791	7.7	22.2
1 22	8 52.05	+16 33.3	1.816	2.791	3.4	22.0
2 1	8 41.85	+17 17.0	1.806	2.790	1.1	21.8
2 11	8 31.84	+17 58.6	1.826	2.789	5.5	22.1
2 21	8 23.11	+18 34.4	1.874	2.787	9.6	22.3
3 2	8 16.52	+19 1.8	1.948	2.784	13.1	22.5

156019 2001 RT_{94} 1 29.4 184°.85 2°.2/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.32	+11 3.7	1.799	2.571	16.3	20.4
1 2	9 9.46	+11 4.2	1.710	2.571	13.0	20.2
1 12	9 1.94	+11 18.7	1.642	2.571	9.0	19.9
1 22	8 52.37	+11 45.3	1.601	2.570	4.7	19.7
2 1	8 41.73	+12 20.5	1.587	2.569	2.3	19.5
2 11	8 31.31	+12 59.6	1.603	2.567	5.9	19.7
2 21	8 22.30	+13 37.8	1.646	2.565	10.2	20.0
3 2	8 15.63	+14 11.6	1.714	2.561	14.1	20.2

409469 2005 SO_{41} 1 29.4 95°.12 1°.9/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.23	+11 20.4	1.976	2.746	15.1	21.6
1 2	9 7.39	+11 22.2	1.903	2.763	11.9	21.4
1 12	9 0.28	+11 36.3	1.852	2.781	8.2	21.2
1 22	8 51.53	+12 0.6	1.828	2.798	4.2	21.0
2 1	8 42.07	+12 31.8	1.832	2.814	2.0	20.9
2 11	8 32.97	+13 5.6	1.867	2.831	5.2	21.1
2 21	8 25.21	+13 38.4	1.929	2.847	9.0	21.4
3 2	8 19.51	+14 7.0	2.017	2.863	12.3	21.6

29975 1999 LQ_{32} 1 29.4 336°.00 3°.3/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.31	+11 31.9	1.544	2.336	17.7	17.4
1 2	9 6.82	+10 55.0	1.454	2.326	14.2	17.2
1 12	9 0.44	+10 30.3	1.385	2.317	10.1	16.9
1 22	8 51.79	+10 17.9	1.339	2.308	5.6	16.6
2 1	8 41.93	+10 16.4	1.320	2.300	3.3	16.4
2 11	8 32.27	+10 22.7	1.328	2.293	6.8	16.6
2 21	8 24.14	+10 33.2	1.361	2.286	11.3	16.9
3 2	8 18.58	+10 44.4	1.417	2.281	15.5	17.1

20958 A900 MA 1 29.4 216°.75 2°.1/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.79	+20 43.1	2.184	2.967	13.4	19.2
1 2	9 9.64	+21 37.1	2.084	2.957	10.4	19.0
1 12	9 2.01	+22 39.2	2.007	2.946	6.9	18.8
1 22	8 52.42	+23 44.2	1.959	2.934	3.3	18.5
2 1	8 41.72	+24 45.8	1.942	2.921	2.7	18.5
2 11	8 31.06	+25 38.0	1.955	2.906	6.3	18.7
2 21	8 21.55	+26 17.2	1.997	2.891	10.0	18.9
3 2	8 14.12	+26 42.3	2.064	2.875	13.4	19.0

456405 2006 UH_{220} 1 29.4 38°.51 3°.0/30.9 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.18	+10 34.5	1.316	2.116	19.8	20.6
1 2	9 7.46	+10 21.7	1.261	2.137	15.6	20.4
1 12	9 0.71	+10 26.8	1.226	2.160	10.8	20.2
1 22	8 51.79	+10 47.8	1.213	2.183	5.8	20.0
2 1	8 42.01	+11 20.2	1.226	2.207	3.0	19.9
2 11	8 32.88	+11 58.2	1.265	2.232	6.7	20.2
2 21	8 25.69	+12 35.8	1.330	2.258	11.3	20.5
3 2	8 21.29	+13 8.6	1.416	2.283	15.3	20.8

150855 2001 SW_{111} 1 29.4 94°.95 4°.0/31.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.80	+ 6 30.4	1.984	2.735	15.7	19.8
1 2	9 7.78	+ 6 6.3	1.911	2.754	12.7	19.7
1 12	9 0.51	+ 5 57.0	1.859	2.772	9.2	19.5
1 22	8 51.63	+ 6 2.0	1.833	2.790	5.8	19.3
2 1	8 42.05	+ 6 19.8	1.835	2.808	4.0	19.2
2 11	8 32.84	+ 6 46.9	1.867	2.825	5.9	19.4
2 21	8 24.94	+ 7 19.2	1.927	2.842	9.2	19.6
3 2	8 19.09	+ 7 52.6	2.011	2.859	12.3	19.8

454537 2014 OD_{333} 1 29.4 206°.74 1°.1/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.60	+18 34.2	2.001	2.785	14.4	22.2
1 2	9 9.59	+19 10.9	1.906	2.780	11.2	22.0
1 12	9 2.01	+19 56.8	1.835	2.774	7.4	21.8
1 22	8 52.42	+20 47.3	1.791	2.767	3.3	21.5
2 1	8 41.75	+21 36.6	1.776	2.759	1.9	21.4
2 11	8 31.21	+22 19.3	1.792	2.750	6.1	21.6
2 21	8 21.96	+22 51.6	1.836	2.741	10.2	21.9
3 2	8 14.93	+23 12.1	1.904	2.731	13.8	22.1

490794 2010 VY_{23} 1 29.4 140°.27 1°.5/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.39	+20 12.0	2.089	2.877	13.8	22.1
1 2	9 8.37	+20 47.0	2.011	2.886	10.6	21.9
1 12	9 1.00	+21 28.5	1.955	2.895	7.0	21.7
1 22	8 51.89	+22 11.9	1.928	2.903	3.1	21.5
2 1	8 41.96	+22 52.0	1.930	2.911	2.1	21.4
2 11	8 32.34	+23 24.3	1.962	2.919	5.8	21.7
2 21	8 24.04	+23 46.2	2.022	2.926	9.5	21.9
3 2	8 17.84	+23 56.9	2.107	2.932	12.7	22.1

135821 2002 RO_{203} 1 29.4 78°.16 1°.3/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.01	+12 2.7	1.666	2.450	16.9	20.4
1 2	9 7.65	+12 27.8	1.599	2.469	13.2	20.2
1 12	9 0.67	+13 8.0	1.553	2.488	8.9	19.9
1 22	8 51.77	+13 59.8	1.533	2.506	4.3	19.7
2 1	8 42.02	+14 57.4	1.541	2.524	1.5	19.6
2 11	8 32.71	+15 54.6	1.577	2.543	5.8	19.9
2 21	8 24.97	+16 46.1	1.641	2.561	10.1	20.2
3 2	8 19.62	+17 28.3	1.728	2.578	13.9	20.4

408777 1999 JD_{111} 1 29.4 250°.17 3°.3/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.38	+23 11.4	1.866	2.664	14.8	21.2
1 2	9 9.89	+24 11.1	1.766	2.647	11.6	21.0
1 12	9 2.51	+25 19.1	1.688	2.629	7.8	20.7
1 22	8 52.76	+26 28.7	1.638	2.610	4.2	20.4
2 1	8 41.63	+27 31.8	1.616	2.591	4.0	20.4
2 11	8 30.47	+28 21.5	1.623	2.571	7.7	20.6
2 21	8 20.67	+28 53.7	1.658	2.550	11.9	20.8
3 2	8 13.34	+29 7.8	1.715	2.529	15.6	20.9

453793 2011 QM_{63} 1 29.5 59°.86 3°.1/30.9 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.78	+ 9 57.6	1.369	2.157	19.7	21.0
1 2	9 10.08	+ 9 48.2	1.315	2.184	15.6	20.8
1 12	9 2.36	+ 9 56.9	1.281	2.211	10.8	20.6
1 22	8 52.50	+10 21.4	1.270	2.239	5.9	20.4
2 1	8 41.82	+10 57.2	1.286	2.266	3.1	20.3
2 11	8 31.85	+11 38.2	1.328	2.294	6.7	20.6
2 21	8 23.87	+12 18.7	1.397	2.321	11.2	20.9
3 2	8 18.70	+12 54.3	1.488	2.349	15.1	21.3

463874 2014 UM_{44} 1 29.5 202°.59 0°.6/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.28	+15 7.3	1.958	2.741	14.8	22.0
1 2	9 7.72	+15 16.0	1.868	2.739	11.6	21.8
1 12	9 0.71	+15 34.8	1.801	2.737	7.8	21.5
1 22	8 51.83	+16 0.8	1.760	2.734	3.6	21.3
2 1	8 42.01	+16 30.2	1.747	2.731	1.2	21.1
2 11	8 32.39	+16 58.8	1.765	2.729	5.5	21.4
2 21	8 24.06	+17 22.9	1.810	2.725	9.6	21.6
3 2	8 17.87	+17 40.5	1.879	2.722	13.2	21.8

149995 2005 UH_{75} 1 29.5 140°.22 1°.2/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.84	+14 9.6	2.340	3.102	13.2	20.4
1 2	9 9.09	+13 59.5	2.256	3.114	10.4	20.2
1 12	9 1.27	+13 57.1	2.196	3.126	7.0	20.0
1 22	8 51.96	+14 0.7	2.165	3.136	3.4	19.8
2 1	8 41.99	+14 7.9	2.164	3.147	1.4	19.7
2 11	8 32.33	+14 16.1	2.194	3.156	4.7	19.9
2 21	8 23.84	+14 23.2	2.253	3.165	8.2	20.1
3 2	8 17.21	+14 27.7	2.339	3.174	11.2	20.3

198658 2005 BT_{16} 1 29.5 29°.71 3°.4/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.59	+24 55.8	2.000	2.804	13.8	20.0
1 2	9 6.49	+25 48.2	1.922	2.805	10.7	19.8
1 12	8 59.92	+26 44.9	1.867	2.807	7.2	19.6
1 22	8 51.49	+27 39.6	1.839	2.810	4.1	19.4
2 1	8 42.15	+28 25.9	1.839	2.812	4.0	19.4
2 11	8 33.07	+28 58.9	1.869	2.814	7.1	19.6
2 21	8 25.35	+29 16.5	1.924	2.816	10.5	19.8
3 2	8 19.82	+29 18.6	2.004	2.819	13.6	20.0

140827 2001 UZ_{169} 1 29.5 174°.71 3°.8/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.69	+29 12.4	2.592	3.383	11.3	20.7
1 2	9 6.79	+29 54.4	2.510	3.384	8.8	20.5
1 12	8 59.84	+30 36.2	2.452	3.385	6.2	20.4
1 22	8 51.38	+31 12.8	2.423	3.386	4.1	20.2
2 1	8 42.20	+31 39.5	2.424	3.386	4.2	20.2
2 11	8 33.26	+31 53.3	2.454	3.387	6.4	20.4
2 21	8 25.43	+31 53.2	2.512	3.387	9.1	20.6
3 2	8 19.41	+31 40.0	2.595	3.387	11.5	20.7

495597 2015 AB_{242} 1 29.5 46°.57 4°.3/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.15	+26 54.5	2.002	2.808	13.7	20.4
1 2	9 6.16	+28 3.5	1.932	2.816	10.6	20.2
1 12	8 59.69	+29 15.3	1.886	2.825	7.3	20.1
1 22	8 51.39	+30 22.9	1.867	2.833	4.7	19.9
2 1	8 42.21	+31 19.2	1.877	2.842	4.9	20.0
2 11	8 33.33	+31 59.3	1.915	2.851	7.6	20.1
2 21	8 25.84	+32 21.0	1.979	2.860	10.8	20.3
3 2	8 20.56	+32 25.2	2.067	2.870	13.7	20.6

459350 2012 HG_{59} 1 29.5 328°.12 10°.0/22.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.29	+35 21.8	1.403	2.232	17.2	20.8
1 2	9 8.06	+37 15.2	1.326	2.214	14.2	20.5
1 12	9 2.03	+39 8.9	1.269	2.195	11.4	20.3
1 22	8 52.78	+40 49.5	1.236	2.178	10.0	20.2
2 1	8 41.65	+42 3.1	1.228	2.162	11.0	20.2
2 11	8 30.67	+42 40.5	1.243	2.147	13.9	20.3
2 21	8 21.79	+42 40.4	1.278	2.132	17.4	20.5
3 2	8 16.49	+42 7.2	1.332	2.119	20.7	20.7

323172 2003 GL_{10} 1 29.5 277°.53 4°.3/ 1.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.53	+ 4 27.1	2.047	2.796	15.3	20.9
1 2	9 4.89	+ 4 24.5	1.934	2.774	12.7	20.7
1 12	8 58.95	+ 4 39.5	1.842	2.752	9.5	20.5
1 22	8 51.16	+ 5 12.5	1.775	2.730	6.2	20.2
2 1	8 42.26	+ 6 1.9	1.736	2.707	4.3	20.0
2 11	8 33.29	+ 7 3.4	1.725	2.685	6.1	20.1
2 21	8 25.30	+ 8 11.5	1.743	2.662	9.7	20.3
3 2	8 19.21	+ 9 20.5	1.785	2.639	13.3	20.4

86466 2000 CS_{66} 1 29.5 235°.93 4°.2/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.40	+26 8.5	1.579	2.385	16.7	18.9
1 2	9 12.57	+26 48.3	1.495	2.380	13.1	18.6
1 12	9 4.41	+27 31.9	1.433	2.374	8.9	18.4
1 22	8 53.61	+28 11.7	1.396	2.367	5.1	18.1
2 1	8 41.44	+28 39.5	1.387	2.360	4.9	18.1
2 11	8 29.60	+28 49.6	1.406	2.354	8.6	18.3
2 21	8 19.63	+28 40.8	1.449	2.346	12.9	18.5
3 2	8 12.69	+28 15.0	1.515	2.339	16.8	18.7

167182 2003 SK_{281} 1 29.5 268°.38 6°.0/ 1.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.47	+ 3 18.1	1.771	2.520	17.4	20.7
1 2	9 7.53	+ 2 41.8	1.665	2.502	14.5	20.4
1 12	9 0.90	+ 2 23.1	1.578	2.483	11.2	20.2
1 22	8 52.07	+ 2 24.2	1.515	2.463	7.8	19.9
2 1	8 41.94	+ 2 45.1	1.478	2.443	6.0	19.8
2 11	8 31.74	+ 3 23.1	1.469	2.423	7.7	19.8
2 21	8 22.73	+ 4 13.1	1.487	2.403	11.3	20.0
3 2	8 15.98	+ 5 8.9	1.528	2.382	15.1	20.1

334581 2002 TR_{122} 1 29.5 117°.81 2°.3/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.41	+10 21.6	2.389	3.147	13.1	20.6
1 2	9 5.68	+10 9.5	2.303	3.156	10.4	20.5
1 12	8 59.05	+10 7.7	2.242	3.164	7.3	20.3
1 22	8 51.03	+10 15.0	2.207	3.173	4.1	20.1
2 1	8 42.37	+10 29.6	2.202	3.181	2.3	20.0
2 11	8 33.94	+10 48.6	2.227	3.189	4.7	20.2
2 21	8 26.55	+11 9.2	2.281	3.197	7.9	20.4
3 2	8 20.86	+11 28.9	2.362	3.205	10.9	20.6

364370 2006 VH_{4} 1 29.5 76°.82 0°.8/29.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.08	+18 7.3	1.725	2.518	16.1	21.2
1 2	9 9.88	+18 33.8	1.666	2.544	12.4	21.0
1 12	9 2.05	+19 9.0	1.629	2.569	8.1	20.8
1 22	8 52.36	+19 47.9	1.619	2.595	3.5	20.6
2 1	8 41.94	+20 25.0	1.637	2.620	1.6	20.5
2 11	8 32.10	+20 55.4	1.684	2.645	6.0	20.8
2 21	8 23.93	+21 16.2	1.758	2.670	10.1	21.1
3 2	8 18.22	+21 26.8	1.857	2.694	13.6	21.4

257463 1992 WW_{6} 1 29.5 111°.03 1°.8/28.1 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.08	+20 11.1	2.223	3.008	13.2	21.2
1 2	9 7.94	+21 6.9	2.155	3.029	10.1	21.0
1 12	9 0.62	+22 9.2	2.111	3.050	6.6	20.8
1 22	8 51.73	+23 12.8	2.095	3.070	3.0	20.7
2 1	8 42.15	+24 11.9	2.110	3.090	2.4	20.6
2 11	8 32.89	+25 1.5	2.156	3.109	5.7	20.9
2 21	8 24.90	+25 39.1	2.230	3.127	9.0	21.1
3 2	8 18.87	+26 3.7	2.329	3.145	11.9	21.3

96161 1978 VS_{9} 1 29.5 66°.50 0°.3/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.26	+15 20.0	1.433	2.234	18.4	19.9
1 2	9 9.79	+15 37.0	1.372	2.253	14.3	19.7
1 12	9 2.28	+16 7.2	1.332	2.272	9.5	19.4
1 22	8 52.55	+16 46.1	1.316	2.292	4.2	19.2
2 1	8 41.89	+17 27.6	1.327	2.311	1.3	19.0
2 11	8 31.83	+18 5.5	1.365	2.331	6.6	19.4
2 21	8 23.67	+18 35.6	1.430	2.350	11.3	19.7
3 2	8 18.33	+18 55.6	1.517	2.370	15.3	20.0

241233 2007 TV_{179} 1 29.5 27°.41 2°.6/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.57	+ 8 25.6	2.331	3.090	13.4	21.3
1 2	9 3.65	+ 8 26.1	2.239	3.090	10.7	21.1
1 12	8 57.81	+ 8 39.3	2.169	3.090	7.7	20.9
1 22	8 50.54	+ 9 4.1	2.126	3.090	4.4	20.7
2 1	8 42.55	+ 9 38.2	2.112	3.090	2.6	20.6
2 11	8 34.71	+10 17.9	2.128	3.090	4.8	20.7
2 21	8 27.85	+10 59.5	2.172	3.090	8.1	20.9
3 2	8 22.64	+11 39.3	2.242	3.090	11.2	21.1

468107 2013 WN_{73} 1 29.5 103°.12 0°.3/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.83	+16 9.4	2.363	3.140	12.7	21.7
1 2	9 6.04	+16 18.7	2.285	3.153	9.9	21.5
1 12	8 59.29	+16 35.4	2.230	3.165	6.6	21.3
1 22	8 51.15	+16 56.7	2.203	3.178	2.9	21.1
2 1	8 42.37	+17 19.6	2.206	3.190	0.9	21.0
2 11	8 33.88	+17 40.8	2.240	3.202	4.6	21.3
2 21	8 26.50	+17 57.8	2.302	3.214	8.0	21.5
3 2	8 20.88	+18 9.2	2.390	3.226	11.0	21.7

460944 2014 WV_{259} 1 29.5 59°.52 5°.2/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.77	+27 19.2	1.771	2.582	15.0	20.8
1 2	9 7.79	+28 45.8	1.705	2.591	11.6	20.6
1 12	9 0.99	+30 16.0	1.661	2.600	8.1	20.4
1 22	8 52.04	+31 41.1	1.645	2.609	5.5	20.3
2 1	8 42.05	+32 51.9	1.656	2.618	5.9	20.4
2 11	8 32.40	+33 42.3	1.696	2.628	8.8	20.5
2 21	8 24.36	+34 9.9	1.760	2.637	12.2	20.8
3 2	8 18.87	+34 16.2	1.847	2.647	15.2	21.0

259226 2003 BB_{27} 1 29.5 342°.26 0°.2/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.07	+19 11.1	1.561	2.362	17.1	19.4
1 2	9 10.51	+18 41.0	1.474	2.356	13.4	19.2
1 12	9 2.89	+18 15.8	1.409	2.350	9.0	18.9
1 22	8 52.90	+17 53.2	1.369	2.345	4.0	18.6
2 1	8 41.75	+17 30.4	1.356	2.341	1.3	18.4
2 11	8 30.96	+17 5.2	1.372	2.337	6.6	18.7
2 21	8 21.91	+16 36.8	1.413	2.334	11.4	19.0
3 2	8 15.63	+16 5.1	1.477	2.331	15.6	19.2

49747 1999 VK_{161} 1 29.5 282°.86 7°.9/24.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.79	+33 57.7	1.679	2.488	15.7	18.8
1 2	9 11.67	+35 22.0	1.591	2.470	12.8	18.5
1 12	9 4.07	+36 46.3	1.526	2.452	9.8	18.3
1 22	8 53.59	+37 59.8	1.486	2.434	8.0	18.2
2 1	8 41.47	+38 51.9	1.473	2.416	8.7	18.1
2 11	8 29.46	+39 15.3	1.485	2.397	11.4	18.3
2 21	8 19.28	+39 9.0	1.521	2.379	14.8	18.4
3 2	8 12.24	+38 36.3	1.577	2.361	18.1	18.6

464038 2014 WD_{179} 1 29.5 38°.83 6°.8/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.58	+30 38.4	1.565	2.384	16.2	20.5
1 2	9 8.84	+32 9.8	1.505	2.393	12.8	20.3
1 12	9 1.88	+33 41.7	1.468	2.403	9.3	20.2
1 22	8 52.47	+35 3.6	1.456	2.413	7.0	20.0
2 1	8 41.91	+36 5.4	1.471	2.424	7.6	20.1
2 11	8 31.84	+36 41.1	1.511	2.435	10.4	20.3
2 21	8 23.70	+36 49.7	1.576	2.446	13.7	20.5
3 2	8 18.50	+36 34.7	1.661	2.458	16.8	20.7

238090 2003 GX_{44} 1 29.5 227°.48 3°.3/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.20	+24 36.9	1.691	2.492	16.0	20.6
1 2	9 12.17	+25 8.5	1.604	2.486	12.5	20.3
1 12	9 4.03	+25 44.5	1.539	2.479	8.4	20.1
1 22	8 53.43	+26 18.3	1.500	2.472	4.4	19.8
2 1	8 41.57	+26 43.0	1.489	2.465	3.9	19.8
2 11	8 29.98	+26 53.5	1.506	2.457	7.8	20.0
2 21	8 20.10	+26 48.0	1.549	2.449	12.1	20.2
3 2	8 13.03	+26 27.9	1.615	2.441	15.9	20.4

404939 2014 MR_{9} 1 29.5 221°.74 0°.1/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.65	+14 32.2	1.864	2.645	15.5	22.2
1 2	9 9.10	+15 8.5	1.765	2.635	12.2	22.0
1 12	9 1.87	+15 58.6	1.689	2.626	8.2	21.7
1 22	8 52.48	+16 58.7	1.640	2.615	3.6	21.4
2 1	8 41.89	+18 3.0	1.619	2.603	1.2	21.2
2 11	8 31.34	+19 4.8	1.628	2.591	6.0	21.5
2 21	8 22.08	+19 58.8	1.666	2.578	10.5	21.7
3 2	8 15.12	+20 41.7	1.727	2.565	14.5	21.9

411185 2010 HE_{48} 1 29.5 158°.89 0°.4/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.60	+17 16.8	2.226	3.001	13.5	22.2
1 2	9 9.16	+17 39.5	2.141	3.009	10.4	22.0
1 12	9 1.48	+18 9.9	2.081	3.017	6.9	21.8
1 22	8 52.16	+18 44.6	2.048	3.023	3.0	21.6
2 1	8 42.05	+19 19.1	2.045	3.029	1.2	21.4
2 11	8 32.19	+19 49.6	2.074	3.034	5.1	21.7
2 21	8 23.56	+20 13.2	2.131	3.039	8.8	22.0
3 2	8 16.90	+20 28.6	2.214	3.042	12.0	22.2

177914 2005 SX_{142} 1 29.5 200°.56 0°.2/29.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.68	+15 59.7	2.408	3.181	12.6	21.6
1 2	9 6.87	+16 30.9	2.310	3.177	9.8	21.4
1 12	8 59.99	+17 11.2	2.237	3.172	6.5	21.2
1 22	8 51.54	+17 57.1	2.191	3.166	2.9	20.9
2 1	8 42.25	+18 44.7	2.176	3.160	1.0	20.7
2 11	8 33.06	+19 29.4	2.193	3.154	4.9	21.0
2 21	8 24.88	+20 7.8	2.238	3.146	8.4	21.2
3 2	8 18.46	+20 37.9	2.310	3.138	11.6	21.4

43883 1995 EK_{2} 1 29.5 112°.89 0°.5/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.06	+14 42.9	2.289	3.065	13.1	20.4
1 2	9 5.56	+14 59.5	2.208	3.075	10.2	20.2
1 12	8 59.05	+15 25.2	2.150	3.084	6.8	20.0
1 22	8 51.08	+15 57.3	2.119	3.094	3.1	19.8
2 1	8 42.43	+16 32.1	2.119	3.103	1.0	19.6
2 11	8 34.02	+17 5.8	2.148	3.112	4.7	19.9
2 21	8 26.71	+17 35.4	2.207	3.121	8.2	20.2
3 2	8 21.19	+17 58.7	2.291	3.129	11.3	20.4

28632 Christraver 1 29.5 258°.61 1°.9/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.97	+20 32.7	1.893	2.691	14.7	19.3
1 2	9 7.81	+21 12.3	1.799	2.680	11.4	19.0
1 12	9 1.00	+22 0.3	1.727	2.669	7.6	18.8
1 22	8 52.11	+22 51.6	1.681	2.657	3.5	18.5
2 1	8 42.07	+23 39.8	1.665	2.645	2.6	18.4
2 11	8 32.14	+24 19.4	1.677	2.634	6.6	18.6
2 21	8 23.52	+24 46.6	1.716	2.622	10.8	18.8
3 2	8 17.21	+25 0.2	1.779	2.610	14.4	19.0

219347 2000 QW_{163} 1 29.5 99°.91 3°.7/31.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.25	+ 6 42.1	2.003	2.757	15.4	20.3
1 2	9 6.68	+ 6 27.7	1.924	2.770	12.5	20.1
1 12	8 59.89	+ 6 28.3	1.868	2.783	9.1	19.9
1 22	8 51.48	+ 6 43.3	1.836	2.795	5.6	19.7
2 1	8 42.32	+ 7 10.6	1.833	2.807	3.7	19.6
2 11	8 33.46	+ 7 46.5	1.859	2.819	5.7	19.8
2 21	8 25.84	+ 8 26.4	1.913	2.831	9.1	20.0
3 2	8 20.21	+ 9 6.3	1.993	2.843	12.3	20.2

523510 2017 NB_{1} 1 29.5 249°.98 0°.6/29.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.83	+18 53.4	2.078	2.864	13.9	22.2
1 2	9 8.14	+19 4.0	1.980	2.854	10.9	21.9
1 12	9 1.04	+19 21.3	1.905	2.843	7.2	21.7
1 22	8 52.06	+19 42.1	1.857	2.833	3.1	21.4
2 1	8 42.10	+20 2.1	1.838	2.822	1.4	21.3
2 11	8 32.28	+20 17.7	1.849	2.810	5.6	21.5
2 21	8 23.67	+20 26.3	1.888	2.799	9.6	21.7
3 2	8 17.15	+20 26.8	1.952	2.787	13.1	21.9

467455 2006 FC_{41} 1 29.5 276°.74 1°.7/28.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.40	+20 52.8	2.154	2.947	13.3	22.2
1 2	9 6.28	+21 24.9	2.053	2.932	10.3	22.0
1 12	8 59.83	+22 3.7	1.976	2.917	6.8	21.7
1 22	8 51.55	+22 44.9	1.926	2.901	3.1	21.5
2 1	8 42.27	+23 23.5	1.905	2.886	2.3	21.4
2 11	8 33.07	+23 54.8	1.914	2.870	5.9	21.6
2 21	8 24.99	+24 15.8	1.950	2.855	9.7	21.8
3 2	8 18.89	+24 25.4	2.011	2.839	13.1	21.9

79515 1998 KU_{29} 1 29.5 290°.07 1°.7/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.40	+22 23.6	3.107	3.894	9.7	19.4
1 2	9 1.67	+23 2.7	3.009	3.885	7.5	19.3
1 12	8 56.37	+23 45.6	2.936	3.875	4.9	19.1
1 22	8 49.91	+24 29.0	2.892	3.866	2.4	18.9
2 1	8 42.85	+25 9.6	2.879	3.857	2.1	18.9
2 11	8 35.87	+25 44.0	2.897	3.847	4.5	19.0
2 21	8 29.62	+26 10.2	2.943	3.838	7.2	19.2
3 2	8 24.67	+26 27.2	3.016	3.829	9.6	19.3

195824 2002 QB_{37} 1 29.5 2°.19 0°.3/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.96	+16 44.6	1.826	2.625	15.1	20.2
1 2	9 4.58	+17 8.2	1.743	2.624	11.7	20.0
1 12	8 58.76	+17 42.1	1.683	2.624	7.8	19.8
1 22	8 51.07	+18 22.7	1.648	2.625	3.4	19.5
2 1	8 42.47	+19 4.9	1.641	2.625	1.3	19.4
2 11	8 34.10	+19 43.5	1.663	2.627	5.8	19.7
2 21	8 27.06	+20 14.5	1.711	2.629	10.0	19.9
3 2	8 22.19	+20 35.9	1.783	2.631	13.6	20.1

227555 2005 YH_{174} 1 29.5 54°.99 2°.9/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.67	+22 31.1	1.726	2.533	15.5	20.2
1 2	9 7.53	+23 23.0	1.662	2.548	11.9	20.0
1 12	9 0.70	+24 21.2	1.620	2.563	7.9	19.7
1 22	8 51.89	+25 19.0	1.605	2.579	3.9	19.5
2 1	8 42.22	+26 9.3	1.617	2.594	3.5	19.6
2 11	8 32.98	+26 46.6	1.658	2.610	7.1	19.8
2 21	8 25.35	+27 8.5	1.725	2.626	10.9	20.1
3 2	8 20.18	+27 14.9	1.815	2.642	14.3	20.3

315559 2008 CR_{27} 1 29.5 206°.67 2°.9/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.90	+24 36.7	1.901	2.697	14.7	21.1
1 2	9 10.74	+25 1.1	1.815	2.695	11.4	20.8
1 12	9 2.85	+25 28.5	1.753	2.692	7.7	20.6
1 22	8 52.87	+25 53.6	1.717	2.689	4.0	20.4
2 1	8 41.87	+26 10.8	1.710	2.686	3.4	20.3
2 11	8 31.18	+26 16.0	1.732	2.683	6.9	20.6
2 21	8 22.01	+26 8.0	1.781	2.680	10.8	20.8
3 2	8 15.30	+25 47.6	1.854	2.676	14.3	21.0

208825 2002 RZ_{40} 1 29.5 184°.88 2°.7/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.14	+24 22.5	2.122	2.910	13.6	21.1
1 2	9 10.65	+24 55.5	2.035	2.911	10.6	20.9
1 12	9 2.64	+25 31.9	1.972	2.910	7.1	20.7
1 22	8 52.75	+26 6.3	1.937	2.909	3.7	20.5
2 1	8 41.92	+26 33.3	1.932	2.908	3.3	20.5
2 11	8 31.36	+26 48.9	1.957	2.906	6.5	20.7
2 21	8 22.17	+26 51.5	2.009	2.903	10.0	20.9
3 2	8 15.19	+26 41.6	2.087	2.900	13.2	21.1

10911 1997 YC_{1} 1 29.5 111°.09 1°.8/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.43	+19 56.0	1.783	2.574	15.7	18.5
1 2	9 11.03	+20 40.0	1.716	2.594	12.1	18.3
1 12	9 2.93	+21 31.9	1.673	2.613	7.9	18.1
1 22	8 52.85	+22 25.8	1.656	2.632	3.5	17.8
2 1	8 41.91	+23 14.9	1.668	2.650	2.5	17.8
2 11	8 31.45	+23 53.9	1.710	2.667	6.5	18.1
2 21	8 22.64	+24 20.0	1.780	2.684	10.5	18.4
3 2	8 16.32	+24 32.6	1.873	2.700	14.0	18.6

283477 2001 QY_{305} 1 29.5 198°.06 3°.4/ 1.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.83	+ 5 5.9	2.377	3.122	13.5	20.7
1 2	9 3.08	+ 5 12.2	2.283	3.122	11.0	20.6
1 12	8 57.46	+ 5 33.5	2.211	3.122	8.1	20.4
1 22	8 50.44	+ 6 9.1	2.165	3.121	5.1	20.2
2 1	8 42.71	+ 6 56.8	2.148	3.121	3.4	20.1
2 11	8 35.10	+ 7 52.5	2.160	3.120	5.0	20.2
2 21	8 28.42	+ 8 51.8	2.201	3.120	8.0	20.3
3 2	8 23.33	+ 9 50.3	2.269	3.119	11.0	20.5

166271 2002 GT_{90} 1 29.5 181°.18 0°.7/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.35	+14 8.2	1.931	2.709	15.1	21.1
1 2	9 8.60	+14 25.3	1.842	2.710	11.9	20.9
1 12	9 1.37	+14 54.1	1.776	2.710	8.0	20.7
1 22	8 52.22	+15 31.5	1.736	2.710	3.7	20.4
2 1	8 42.10	+16 13.0	1.726	2.710	1.2	20.2
2 11	8 32.19	+16 53.8	1.745	2.709	5.5	20.5
2 21	8 23.59	+17 29.6	1.792	2.708	9.7	20.8
3 2	8 17.18	+17 57.9	1.864	2.706	13.4	21.0

57584 2001 TO_{68} 1 29.5 12°.54 2°.2/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.01	+10 33.8	1.839	2.616	15.8	19.5
1 2	9 6.10	+10 36.9	1.752	2.616	12.6	19.3
1 12	8 59.75	+10 54.4	1.687	2.616	8.8	19.0
1 22	8 51.52	+11 24.5	1.647	2.617	4.7	18.8
2 1	8 42.35	+12 3.7	1.635	2.617	2.3	18.6
2 11	8 33.38	+12 47.3	1.652	2.617	5.6	18.8
2 21	8 25.71	+13 30.4	1.696	2.618	9.7	19.1
3 2	8 20.19	+14 9.1	1.764	2.618	13.4	19.3

256045 2006 UQ_{88} 1 29.5 102°.08 2°.1/30.6 18

12 23	9 11.90	+11 39.3	1.805	2.583	16.0	21.3
1 2	9 7.56	+11 35.8	1.723	2.588	12.7	21.1
1 12	9 0.69	+11 45.3	1.662	2.593	8.8	20.9
1 22	8 51.92	+12 6.0	1.627	2.598	4.6	20.6
2 1	8 42.23	+12 34.7	1.620	2.603	2.2	20.5
2 11	8 32.82	+13 6.8	1.642	2.607	5.7	20.7
2 21	8 24.81	+13 38.3	1.691	2.612	9.8	21.0
3 2	8 19.04	+14 5.7	1.765	2.616	13.5	21.2

166264 2002 GL_{74} 1 29.5 301°.71 1°.1/29.9 18

12 23	9 12.22	+15 8.2	1.488	2.289	17.8	19.5
1 2	9 8.66	+14 58.9	1.393	2.273	14.1	19.2
1 12	9 1.95	+15 1.5	1.318	2.258	9.7	18.9
1 22	8 52.67	+15 13.5	1.267	2.242	4.6	18.6
2 1	8 41.94	+15 31.2	1.243	2.227	1.6	18.3
2 11	8 31.29	+15 49.7	1.245	2.212	6.8	18.6
2 21	8 22.23	+16 5.0	1.273	2.197	12.1	18.9
3 2	8 15.97	+16 14.3	1.323	2.183	16.7	19.1

89270 2001 VB_{10} 1 29.5 267°.90 1°.4/28.9 18

12 23	9 16.20	+20 39.2	1.544	2.347	17.2	19.1
1 2	9 11.67	+20 47.3	1.453	2.336	13.5	18.8
1 12	9 3.89	+21 2.4	1.383	2.325	9.0	18.5
1 22	8 53.49	+21 20.0	1.337	2.314	4.0	18.2
2 1	8 41.68	+21 34.2	1.319	2.302	2.2	18.1
2 11	8 30.07	+21 40.1	1.329	2.291	7.3	18.3
2 21	8 20.21	+21 35.3	1.365	2.279	12.3	18.6
3 2	8 13.26	+21 19.9	1.423	2.267	16.6	18.8

350366 2012 UN_{146} 1 29.5 248°.10 3°.4/31.9 17

12 23	9 7.87	+ 6 22.2	2.552	3.296	12.7	21.5
1 2	9 3.77	+ 6 8.5	2.450	3.289	10.4	21.3
1 12	8 57.88	+ 6 6.8	2.371	3.281	7.6	21.1
1 22	8 50.63	+ 6 16.8	2.318	3.274	4.9	20.9
2 1	8 42.67	+ 6 37.4	2.294	3.267	3.4	20.8
2 11	8 34.80	+ 7 5.8	2.301	3.259	4.9	20.9
2 21	8 27.78	+ 7 39.0	2.336	3.251	7.8	21.1
3 2	8 22.27	+ 8 13.5	2.397	3.243	10.6	21.2

473925 2016 EL_{155} 1 29.5 229°.10 3°.3/27.5 18

12 23	9 13.03	+25 48.1	2.051	2.849	13.7	21.4
1 2	9 8.36	+26 23.4	1.968	2.848	10.6	21.2
1 12	9 1.19	+27 1.1	1.908	2.847	7.2	21.0
1 22	8 52.14	+27 35.8	1.875	2.846	4.0	20.8
2 1	8 42.17	+28 1.9	1.872	2.845	3.8	20.8
2 11	8 32.49	+28 15.3	1.897	2.844	6.9	21.0
2 21	8 24.18	+28 14.6	1.949	2.843	10.3	21.2
3 2	8 18.09	+28 0.5	2.025	2.841	13.5	21.4

468274 2015 CK_{15} 1 29.5 197°.03 0°.3/29.3 18

12 23	9 8.60	+15 8.0	2.315	3.094	12.9	21.3
1 2	9 4.61	+15 58.7	2.223	3.093	10.0	21.1
1 12	8 58.57	+17 0.5	2.154	3.091	6.6	20.9
1 22	8 50.97	+18 9.6	2.114	3.090	2.9	20.7
2 1	8 42.56	+19 20.8	2.104	3.088	1.1	20.5
2 11	8 34.25	+20 28.5	2.125	3.086	5.0	20.8
2 21	8 26.94	+21 28.4	2.174	3.084	8.6	21.0
3 2	8 21.37	+22 17.7	2.250	3.081	11.7	21.2

499033 2009 DQ_{44} 1 29.5 350°.90 4°.5/26.5 17

12 23	9 11.69	+29 56.1	2.225	3.024	12.7	20.9
1 2	9 7.21	+30 40.8	2.145	3.023	10.0	20.7
1 12	9 0.36	+31 25.1	2.089	3.022	7.1	20.5
1 22	8 51.75	+32 3.0	2.060	3.021	4.8	20.4
2 1	8 42.30	+32 29.0	2.059	3.021	5.0	20.4
2 11	8 33.13	+32 39.6	2.088	3.020	7.4	20.5
2 21	8 25.27	+32 33.8	2.142	3.020	10.3	20.7
3 2	8 19.50	+32 13.0	2.221	3.019	13.0	20.9

315633 2008 DC_{15} 1 29.5 256°.70 0°.7/29.1 17

12 23	9 13.41	+18 38.1	2.022	2.808	14.2	21.3
1 2	9 8.76	+18 52.7	1.918	2.792	11.2	21.0
1 12	9 1.58	+19 14.9	1.837	2.776	7.4	20.8
1 22	8 52.38	+19 41.2	1.783	2.759	3.3	20.5
2 1	8 42.06	+20 7.3	1.758	2.741	1.5	20.3
2 11	8 31.81	+20 28.6	1.762	2.723	5.8	20.6
2 21	8 22.75	+20 42.4	1.795	2.705	10.0	20.8
3 2	8 15.87	+20 47.3	1.852	2.687	13.7	21.0

103951 2000 DW_{73} 1 29.5 256°.14 2°.2/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.18	+22 28.7	1.993	2.786	14.2	20.1
1 2	9 9.46	+22 57.2	1.892	2.770	11.1	19.9
1 12	9 2.09	+23 31.3	1.814	2.754	7.4	19.6
1 22	8 52.62	+24 6.1	1.763	2.738	3.6	19.4
2 1	8 41.99	+24 35.9	1.741	2.721	2.8	19.3
2 11	8 31.43	+24 56.1	1.749	2.703	6.6	19.5
2 21	8 22.17	+25 4.0	1.784	2.686	10.6	19.7
3 2	8 15.19	+24 59.5	1.843	2.668	14.2	19.9

277591 2006 AO_{12} 1 29.5 124°.53 0°.7/29.9 18

12 23	9 10.28	+13 58.7	2.067	2.847	14.2	21.4
1 2	9 6.03	+14 18.6	1.983	2.852	11.1	21.2
1 12	8 59.55	+14 49.6	1.922	2.856	7.5	20.9
1 22	8 51.40	+15 28.7	1.887	2.861	3.4	20.7
2 1	8 42.44	+16 11.7	1.881	2.866	1.1	20.5
2 11	8 33.70	+16 54.1	1.906	2.870	5.1	20.8
2 21	8 26.16	+17 31.8	1.958	2.874	9.0	21.1
3 2	8 20.58	+18 2.3	2.035	2.878	12.4	21.3

286087 2001 TE_{22} 1 29.5 174°.52 5°.9/ 3.8 18

12 23	9 6.50	− 4 17.4	2.683	3.371	13.4	20.8
1 2	9 2.61	− 4 29.8	2.587	3.372	11.5	20.6
1 12	8 57.04	− 4 24.6	2.511	3.373	9.3	20.5
1 22	8 50.25	− 4 0.8	2.460	3.374	7.2	20.3
2 1	8 42.83	− 3 19.0	2.436	3.375	6.0	20.2
2 11	8 35.51	− 2 22.0	2.442	3.375	6.4	20.3
2 21	8 29.00	− 1 14.0	2.475	3.375	8.1	20.4
3 2	8 23.89	− 0 0.1	2.536	3.375	10.3	20.5

283372 2000 FE_{7} 1 29.5 192°.74 3°.2/31.3 18

12 23	9 12.42	+ 8 24.8	1.611	2.385	17.8	21.5
1 2	9 8.36	+ 8 24.8	1.524	2.385	14.3	21.2
1 12	9 1.47	+ 8 43.0	1.458	2.384	10.2	21.0
1 22	8 52.37	+ 9 18.2	1.416	2.383	5.8	20.7
2 1	8 42.10	+10 6.8	1.402	2.381	3.3	20.5
2 11	8 32.04	+11 3.0	1.415	2.380	6.5	20.7
2 21	8 23.46	+12 0.3	1.455	2.378	10.9	21.0
3 2	8 17.39	+12 53.4	1.518	2.376	15.0	21.2

378683 2008 JZ_{11} 1 29.5 202°.80 4°.7/ 1.8 16

12 23	9 10.01	+ 2 6.5	2.405	3.128	14.0	22.5
1 2	9 5.54	+ 1 50.2	2.304	3.124	11.6	22.3
1 12	8 59.11	+ 1 49.3	2.225	3.119	8.9	22.1
1 22	8 51.20	+ 2 4.2	2.172	3.114	6.2	21.9
2 1	8 42.51	+ 2 34.0	2.147	3.109	4.7	21.8
2 11	8 33.90	+ 3 15.9	2.152	3.103	5.9	21.9
2 21	8 26.21	+ 4 5.7	2.186	3.096	8.5	22.0
3 2	8 20.16	+ 4 59.0	2.246	3.089	11.3	22.2

195935 2002 RC_{122} 1 29.5 73°.54 5°.2/25.7 18

12 23	9 12.16	+30 45.1	2.137	2.938	13.1	19.9
1 2	9 7.68	+31 51.9	2.068	2.946	10.3	19.7
1 12	9 0.72	+32 58.2	2.023	2.954	7.4	19.5
1 22	8 51.93	+33 56.9	2.004	2.961	5.4	19.4
2 1	8 42.28	+34 41.4	2.015	2.969	5.7	19.4
2 11	8 32.95	+35 7.6	2.054	2.977	8.1	19.6
2 21	8 25.01	+35 14.4	2.118	2.985	10.9	19.8
3 2	8 19.29	+35 3.5	2.206	2.992	13.5	20.0

194075 2001 SW_{146} 1 29.5 54°.49 3°.3/28.2 18

12 23	9 16.94	+23 38.6	1.292	2.110	19.0	20.6
1 2	9 12.42	+24 5.9	1.232	2.124	14.7	20.4
1 12	9 4.33	+24 38.6	1.192	2.137	9.8	20.2
1 22	8 53.60	+25 9.2	1.176	2.151	4.9	19.9
2 1	8 41.74	+25 30.0	1.186	2.165	3.9	19.9
2 11	8 30.64	+25 35.8	1.223	2.180	8.4	20.2
2 21	8 21.83	+25 25.5	1.283	2.195	13.1	20.5
3 2	8 16.33	+25 1.3	1.365	2.209	17.2	20.8

27637 2070 $T\text{-}_{1}$ 1 29.5 190°.92 1°.6/28.5 18

12 23	9 13.21	+20 28.1	2.084	2.873	13.8	19.6
1 2	9 8.41	+21 1.2	1.996	2.872	10.7	19.4
1 12	9 1.20	+21 41.1	1.931	2.871	7.1	19.1
1 22	8 52.16	+22 23.1	1.894	2.869	3.2	18.9
2 1	8 42.19	+23 2.0	1.886	2.867	2.2	18.8
2 11	8 32.43	+23 33.1	1.908	2.865	5.9	19.1
2 21	8 23.93	+23 53.8	1.958	2.862	9.7	19.3
3 2	8 17.55	+24 3.1	2.033	2.859	13.0	19.5

87676 2000 RR_{101} 1 29.5 143°.90 1°.8/30.6 18

12 23	9 13.46	+12 14.7	2.355	3.114	13.3	19.7
1 2	9 8.09	+12 4.1	2.269	3.123	10.5	19.5
1 12	9 0.71	+12 2.6	2.207	3.133	7.2	19.3
1 22	8 51.85	+12 8.7	2.172	3.141	3.8	19.1
2 1	8 42.32	+12 20.3	2.168	3.150	1.8	19.0
2 11	8 33.05	+12 34.6	2.195	3.158	4.7	19.2
2 21	8 24.89	+12 49.1	2.251	3.165	8.1	19.4
3 2	8 18.53	+13 1.6	2.333	3.172	11.1	19.6

457157 2008 GT_7 1 29.5 270°.41 0°.6/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.69	+17 8.9	1.858	2.652	15.0	21.5
1 2	9 6.78	+17 40.0	1.766	2.644	11.7	21.3
1 12	9 0.32	+18 21.8	1.697	2.637	7.8	21.0
1 22	8 51.85	+19 10.2	1.653	2.630	3.4	20.7
2 1	8 42.30	+19 59.8	1.639	2.622	1.5	20.6
2 11	8 32.89	+20 44.8	1.653	2.615	6.0	20.9
2 21	8 24.79	+21 20.9	1.694	2.608	10.3	21.1
3 2	8 18.93	+21 46.0	1.759	2.600	14.1	21.3

453018 2007 RZ_2 1 29.5 113°.08 0°.3/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.56	+15 13.1	1.819	2.600	15.8	21.8
1 2	9 10.26	+15 33.5	1.749	2.618	12.3	21.6
1 12	9 2.38	+16 4.8	1.701	2.636	8.2	21.4
1 22	8 52.64	+16 43.2	1.679	2.654	3.6	21.2
2 1	8 42.07	+17 23.5	1.686	2.671	1.1	21.0
2 11	8 31.94	+18 0.9	1.723	2.687	5.7	21.4
2 21	8 23.34	+18 31.5	1.788	2.703	9.8	21.7
3 2	8 17.10	+18 53.5	1.878	2.718	13.4	21.9

154868 2004 RF_{101} 1 29.5 157°.38 2°.0/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.60	+10 25.2	2.267	3.028	13.7	20.7
1 2	9 6.05	+10 30.0	2.178	3.033	10.8	20.5
1 12	8 59.46	+10 46.6	2.112	3.037	7.6	20.3
1 22	8 51.35	+11 13.3	2.073	3.041	4.0	20.1
2 1	8 42.49	+11 47.3	2.063	3.044	2.1	19.9
2 11	8 33.83	+12 24.8	2.084	3.048	4.8	20.1
2 21	8 26.23	+13 2.2	2.133	3.050	8.3	20.3
3 2	8 20.41	+13 36.2	2.209	3.053	11.5	20.5

312953 1996 BM_{10} 1 29.5 196°.87 4°.4/27.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.34	+29 36.6	2.119	2.909	13.6	20.6
1 2	9 12.47	+30 11.7	2.033	2.906	10.7	20.4
1 12	9 3.92	+30 46.2	1.972	2.904	7.5	20.2
1 22	8 53.35	+31 13.5	1.937	2.900	4.9	20.1
2 1	8 41.82	+31 28.1	1.932	2.897	4.9	20.1
2 11	8 30.61	+31 26.2	1.956	2.892	7.5	20.2
2 21	8 20.89	+31 7.7	2.008	2.888	10.8	20.4
3 2	8 13.58	+30 34.6	2.084	2.882	13.8	20.6

428430 2007 TE_{214} 1 29.5 151°.01 6°.0/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.32	+36 15.7	2.507	3.295	11.8	21.0
1 2	9 9.10	+37 15.2	2.434	3.298	9.5	20.9
1 12	9 1.55	+38 10.3	2.387	3.302	7.4	20.7
1 22	8 52.27	+38 54.5	2.366	3.305	6.1	20.6
2 1	8 42.19	+39 22.2	2.374	3.308	6.5	20.7
2 11	8 32.42	+39 30.5	2.411	3.310	8.2	20.8
2 21	8 23.96	+39 19.4	2.473	3.313	10.5	20.9
3 2	8 17.60	+38 51.2	2.559	3.316	12.6	21.1

496520 2014 VQ_2 1 29.5 96°.72 0°.5/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.01	+14 48.6	1.951	2.737	14.7	20.7
1 2	9 5.98	+15 48.3	1.873	2.747	11.4	20.5
1 12	8 59.61	+17 1.3	1.819	2.757	7.5	20.2
1 22	8 51.46	+18 22.3	1.791	2.767	3.2	20.0
2 1	8 42.45	+19 44.8	1.793	2.777	1.3	19.9
2 11	8 33.68	+21 1.9	1.825	2.787	5.6	20.2
2 21	8 26.16	+22 8.3	1.886	2.797	9.6	20.4
3 2	8 20.73	+23 1.2	1.971	2.806	13.0	20.7

154030 2002 CT_{48} 1 29.5 340°.09 3°.8/31.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.29	+ 6 6.6	1.756	2.525	16.7	19.7
1 2	9 4.16	+ 6 9.2	1.666	2.521	13.6	19.5
1 12	8 58.58	+ 6 30.8	1.597	2.517	9.9	19.3
1 22	8 51.08	+ 7 10.8	1.551	2.513	6.1	19.0
2 1	8 42.57	+ 8 6.4	1.533	2.510	3.8	18.9
2 11	8 34.21	+ 9 11.8	1.543	2.507	6.2	19.0
2 21	8 27.10	+10 20.6	1.579	2.504	10.1	19.2
3 2	8 22.14	+11 26.7	1.640	2.502	13.9	19.5

317058 2001 SM_{100} 1 29.5 212°.26 3°.7/ 1.0 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.31	+ 5 17.5	2.194	2.938	14.6	22.4
1 2	9 6.00	+ 5 15.9	2.094	2.933	11.9	22.2
1 12	8 59.54	+ 5 30.1	2.016	2.927	8.8	22.0
1 22	8 51.45	+ 5 59.6	1.964	2.920	5.6	21.7
2 1	8 42.46	+ 6 42.3	1.940	2.913	3.7	21.6
2 11	8 33.56	+ 7 34.4	1.946	2.906	5.6	21.7
2 21	8 25.67	+ 8 31.0	1.981	2.898	8.9	21.9
3 2	8 19.59	+ 9 27.3	2.042	2.890	12.1	22.1

144686 2004 FG_{144} 1 29.5 7°.74 0°.2/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.43	+19 8.7	1.974	2.765	14.4	19.0
1 2	9 7.80	+18 54.5	1.890	2.766	11.2	18.8
1 12	9 0.76	+18 45.2	1.828	2.767	7.4	18.6
1 22	8 51.95	+18 38.5	1.793	2.769	3.2	18.3
2 1	8 42.32	+18 31.3	1.787	2.771	1.1	18.1
2 11	8 33.01	+18 21.4	1.810	2.774	5.4	18.4
2 21	8 25.07	+18 7.4	1.861	2.776	9.4	18.7
3 2	8 19.27	+17 48.7	1.936	2.780	12.9	18.9

411221 2010 OV_{28} 1 29.5 87°.37 1°.5/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.44	+21 51.4	1.827	2.617	15.4	20.8
1 2	9 12.41	+21 58.0	1.763	2.639	11.9	20.7
1 12	9 3.73	+22 8.6	1.721	2.660	7.8	20.5
1 22	8 53.19	+22 18.7	1.706	2.682	3.5	20.2
2 1	8 41.95	+22 24.0	1.721	2.703	2.1	20.2
2 11	8 31.31	+22 21.5	1.765	2.724	6.1	20.5
2 21	8 22.40	+22 10.3	1.837	2.744	10.1	20.8
3 2	8 15.97	+21 51.0	1.933	2.764	13.4	21.0

231538 2008 SO_{164} 1 29.5 179°.51 1°.0/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.33	+18 51.6	2.214	3.002	13.1	20.4
1 2	9 6.03	+19 24.3	2.127	3.002	10.2	20.2
1 12	8 59.55	+20 4.5	2.063	3.002	6.7	20.0
1 22	8 51.44	+20 48.2	2.027	3.003	2.9	19.7
2 1	8 42.52	+21 30.7	2.020	3.003	1.7	19.6
2 11	8 33.78	+22 7.5	2.043	3.002	5.4	19.9
2 21	8 26.16	+22 35.8	2.095	3.002	9.0	20.1
3 2	8 20.45	+22 53.9	2.171	3.002	12.2	20.3

263412 2008 DR_{37} 1 29.5 247°.88 2°.5/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.85	+ 9 19.9	1.860	2.632	15.8	21.5
1 2	9 6.03	+ 9 29.1	1.768	2.629	12.7	21.3
1 12	8 59.77	+ 9 54.1	1.698	2.625	8.9	21.0
1 22	8 51.61	+10 33.4	1.654	2.622	4.9	20.8
2 1	8 42.45	+11 23.2	1.637	2.618	2.5	20.6
2 11	8 33.43	+12 18.4	1.649	2.614	5.7	20.8
2 21	8 25.66	+13 13.5	1.688	2.610	9.8	21.1
3 2	8 20.01	+14 3.9	1.753	2.606	13.5	21.3

359504 2010 QM 1 29.5 225°.08 0°.4/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.87	+14 55.5	1.960	2.740	14.9	21.6
1 2	9 8.35	+15 17.1	1.862	2.732	11.7	21.3
1 12	9 1.32	+15 50.1	1.787	2.723	7.9	21.1
1 22	8 52.31	+16 31.4	1.739	2.713	3.6	20.8
2 1	8 42.22	+17 16.4	1.719	2.704	1.1	20.6
2 11	8 32.22	+17 59.8	1.730	2.693	5.6	20.9
2 21	8 23.45	+18 37.5	1.768	2.682	9.9	21.1
3 2	8 16.85	+19 6.6	1.831	2.671	13.7	21.3

400152 2006 VO_{12} 1 29.5 100°.05 8°.2/ 3.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 19.11	− 5 50.6	2.279	2.942	16.1	21.5
1 2	9 12.30	− 7 7.6	2.213	2.975	13.9	21.4
1 12	9 3.40	− 8 5.6	2.167	3.007	11.5	21.3
1 22	8 53.02	− 8 41.5	2.147	3.038	9.4	21.2
2 1	8 42.05	− 8 54.1	2.155	3.068	8.2	21.2
2 11	8 31.46	− 8 44.9	2.191	3.097	8.6	21.2
2 21	8 22.17	− 8 17.9	2.255	3.125	10.2	21.4
3 2	8 14.83	− 7 38.6	2.345	3.153	12.1	21.6

15945 Raymondavid 1 29.5 113°.10 1°.1/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.74	+20 19.1	2.557	3.339	11.7	18.9
1 2	9 5.93	+20 39.5	2.478	3.350	9.0	18.7
1 12	8 59.25	+21 4.4	2.423	3.361	5.9	18.5
1 22	8 51.24	+21 30.5	2.397	3.372	2.6	18.3
2 1	8 42.63	+21 54.4	2.401	3.383	1.6	18.3
2 11	8 34.28	+22 12.9	2.436	3.394	4.7	18.5
2 21	8 26.97	+22 24.3	2.500	3.404	7.9	18.7
3 2	8 21.32	+22 27.9	2.589	3.414	10.6	18.9

256181 2006 VM_{73} 1 29.5 167°.97 2°.3/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.62	+ 9 28.5	2.369	3.119	13.4	21.4
1 2	9 7.52	+ 9 28.9	2.277	3.125	10.7	21.2
1 12	9 0.41	+ 9 41.0	2.209	3.129	7.6	21.0
1 22	8 51.80	+10 3.4	2.168	3.133	4.2	20.8
2 1	8 42.44	+10 33.7	2.157	3.136	2.3	20.7
2 11	8 33.27	+11 8.3	2.176	3.139	4.8	20.9
2 21	8 25.14	+11 43.8	2.226	3.140	8.1	21.1
3 2	8 18.76	+12 17.0	2.301	3.141	11.2	21.3

198631 2005 AW_{51} 1 29.5 16°.88 1°.8/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.20	+21 34.4	1.997	2.794	14.0	20.5
1 2	9 6.94	+21 59.0	1.915	2.795	10.8	20.3
1 12	9 0.27	+22 29.0	1.855	2.797	7.2	20.1
1 22	8 51.80	+22 59.9	1.823	2.798	3.3	19.9
2 1	8 42.46	+23 27.0	1.819	2.800	2.4	19.8
2 11	8 33.39	+23 46.0	1.844	2.801	6.0	20.0
2 21	8 25.64	+23 54.7	1.896	2.803	9.8	20.3
3 2	8 20.04	+23 52.7	1.973	2.805	13.1	20.5

103893 2000 DR_{54} 1 29.5 134°.36 0°.3/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.43	+17 17.8	2.317	3.098	12.8	20.0
1 2	9 5.93	+17 36.1	2.231	3.103	9.9	19.8
1 12	8 59.40	+18 1.7	2.170	3.107	6.6	19.6
1 22	8 51.36	+18 31.5	2.136	3.112	2.9	19.4
2 1	8 42.60	+19 1.8	2.132	3.116	1.1	19.3
2 11	8 34.07	+19 29.0	2.158	3.120	4.8	19.6
2 21	8 26.62	+19 50.3	2.213	3.124	8.4	19.8
3 2	8 20.97	+20 4.4	2.293	3.128	11.4	20.0

229494 2005 US_{499} 1 29.5 184°.02 1°.9/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.31	+18 59.1	1.778	2.570	15.7	21.2
1 2	9 10.53	+19 57.1	1.693	2.571	12.2	20.9
1 12	9 2.91	+21 6.4	1.631	2.571	8.0	20.7
1 22	8 53.06	+22 20.6	1.595	2.570	3.6	20.4
2 1	8 42.02	+23 31.9	1.588	2.569	2.6	20.3
2 11	8 31.16	+24 33.1	1.611	2.567	6.9	20.6
2 21	8 21.79	+25 19.6	1.661	2.564	11.2	20.8
3 2	8 14.93	+25 49.9	1.735	2.561	14.9	21.1

99505 2002 DZ_{15} 1 29.5 344°.11 0°.4/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.53	+14 12.3	1.032	1.874	21.1	18.4
1 2	9 1.39	+14 36.1	0.952	1.857	16.7	18.0
1 12	8 57.71	+15 22.1	0.891	1.841	11.3	17.7
1 22	8 51.05	+16 26.6	0.850	1.827	5.1	17.3
2 1	8 42.65	+17 41.7	0.831	1.816	1.6	17.0
2 11	8 34.40	+18 56.1	0.835	1.806	8.3	17.4
2 21	8 28.12	+20 0.0	0.861	1.798	14.5	17.7
3 2	8 25.25	+20 46.9	0.905	1.793	19.9	17.9

37792 1997 VQ_{7} 1 29.5 39°.61 0°.2/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.25	+16 32.6	1.342	2.152	18.9	19.3
1 2	9 9.44	+16 39.1	1.273	2.159	14.8	19.0
1 12	9 2.37	+16 58.1	1.225	2.167	9.9	18.8
1 22	8 52.83	+17 25.3	1.199	2.176	4.4	18.5
2 1	8 42.13	+17 54.9	1.200	2.185	1.4	18.3
2 11	8 31.94	+18 21.0	1.228	2.194	7.0	18.7
2 21	8 23.70	+18 39.6	1.280	2.204	12.1	19.0
3 2	8 18.45	+18 48.8	1.354	2.214	16.4	19.3

76566 2000 GB_{107} 1 29.5 244°.57 2°.5/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.92	+22 26.9	2.070	2.863	13.7	19.9
1 2	9 8.42	+23 12.3	1.972	2.851	10.7	19.6
1 12	9 1.40	+24 4.4	1.897	2.837	7.1	19.4
1 22	8 52.38	+24 57.7	1.850	2.824	3.6	19.1
2 1	8 42.25	+25 46.1	1.832	2.810	3.1	19.1
2 11	8 32.20	+26 24.1	1.844	2.795	6.6	19.3
2 21	8 23.36	+26 48.6	1.883	2.780	10.4	19.5
3 2	8 16.68	+26 58.9	1.946	2.765	13.8	19.6

1845 Helewalda 1 29.5 18°.36 1°.3/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.28	+10 53.5	2.030	2.807	14.5	15.8
1 2	9 3.83	+11 27.6	1.943	2.808	11.5	15.6
1 12	8 58.19	+12 16.6	1.878	2.810	7.8	15.4
1 22	8 50.90	+13 17.5	1.840	2.812	3.9	15.1
2 1	8 42.77	+14 25.6	1.830	2.814	1.5	15.0
2 11	8 34.80	+15 35.1	1.850	2.816	5.1	15.2
2 21	8 27.95	+16 40.6	1.898	2.818	9.0	15.4
3 2	8 23.00	+17 37.8	1.972	2.821	12.4	15.7

317563 2002 VD_{62} 1 29.5 85°.83 9°.3/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 19.64	+39 24.4	1.740	2.538	15.7	20.3
1 2	9 14.38	+40 56.0	1.686	2.550	13.0	20.1
1 12	9 5.63	+42 19.5	1.654	2.561	10.6	20.0
1 22	8 54.25	+43 23.7	1.647	2.573	9.3	20.0
2 1	8 41.70	+43 59.8	1.666	2.584	9.9	20.0
2 11	8 29.80	+44 3.8	1.710	2.595	11.9	20.2
2 21	8 20.10	+43 38.1	1.778	2.606	14.4	20.3
3 2	8 13.63	+42 48.2	1.865	2.617	16.8	20.5

433148 2012 TJ_{240} 1 29.5 151°.22 4°.2/ 2.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.97	+ 2 1.4	2.609	3.333	13.0	21.6
1 2	9 3.02	+ 1 56.8	2.515	3.336	10.7	21.4
1 12	8 57.37	+ 2 7.1	2.444	3.339	8.2	21.2
1 22	8 50.47	+ 2 32.2	2.399	3.342	5.7	21.1
2 1	8 42.95	+ 3 10.7	2.382	3.345	4.2	21.0
2 11	8 35.55	+ 3 59.5	2.396	3.348	5.2	21.1
2 21	8 28.99	+ 4 54.5	2.438	3.350	7.6	21.2
3 2	8 23.89	+ 5 51.5	2.506	3.353	10.2	21.4

271267 2003 UC_{171} 1 29.5 79°.23 4°.0/ 1.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.65	+ 4 52.4	2.127	2.875	14.9	20.9
1 2	9 4.64	+ 4 46.2	2.045	2.885	12.1	20.7
1 12	8 58.59	+ 4 55.9	1.985	2.895	8.9	20.5
1 22	8 51.04	+ 5 21.2	1.950	2.905	5.7	20.3
2 1	8 42.76	+ 5 59.7	1.944	2.915	4.0	20.2
2 11	8 34.72	+ 6 47.5	1.966	2.925	5.6	20.3
2 21	8 27.78	+ 7 39.9	2.017	2.935	8.6	20.6
3 2	8 22.65	+ 8 32.2	2.093	2.945	11.7	20.8

164997 2000 BW_{24} 1 29.5 33°.54 5°.7/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.90	+26 43.7	1.457	2.279	17.0	19.0
1 2	9 8.51	+28 10.8	1.393	2.286	13.3	18.8
1 12	9 1.85	+29 43.1	1.352	2.293	9.2	18.6
1 22	8 52.65	+31 10.2	1.335	2.301	6.1	18.4
2 1	8 42.22	+32 21.6	1.344	2.309	6.4	18.5
2 11	8 32.22	+33 9.5	1.380	2.318	9.8	18.7
2 21	8 24.16	+33 31.7	1.440	2.327	13.7	18.9
3 2	8 19.09	+33 30.2	1.520	2.337	17.1	19.2

170367 2003 SE_{225} 1 29.5 224°.68 1°.3/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.52	+12 46.2	2.007	2.778	14.9	21.5
1 2	9 8.82	+12 57.5	1.905	2.768	11.8	21.2
1 12	9 1.63	+13 21.1	1.826	2.757	8.1	21.0
1 22	8 52.49	+13 54.6	1.774	2.746	4.0	20.7
2 1	8 42.26	+14 34.2	1.750	2.734	1.5	20.5
2 11	8 32.09	+15 15.4	1.757	2.721	5.5	20.7
2 21	8 23.10	+15 53.8	1.792	2.708	9.7	21.0
3 2	8 16.22	+16 26.1	1.852	2.694	13.4	21.2

264417 2000 QQ_{48} 1 29.5 99°.09 2°.0/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.93	+ 8 57.8	2.224	2.979	14.1	21.4
1 2	9 6.96	+ 9 23.2	2.155	3.005	11.1	21.2
1 12	8 59.99	+10 2.1	2.108	3.031	7.7	21.1
1 22	8 51.60	+10 52.1	2.089	3.056	4.1	20.9
2 1	8 42.61	+11 49.1	2.099	3.080	2.0	20.8
2 11	8 33.94	+12 48.2	2.140	3.104	4.7	21.0
2 21	8 26.45	+13 45.1	2.211	3.127	8.1	21.3
3 2	8 20.79	+14 36.2	2.308	3.150	11.1	21.5

368618 2004 TV_{19} 1 29.5 112°.48 5°.7/ 3.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.74	− 3 14.9	2.467	3.160	14.4	21.8
1 2	9 5.13	− 3 20.8	2.388	3.180	12.1	21.6
1 12	8 58.73	− 3 7.9	2.330	3.200	9.6	21.5
1 22	8 51.05	− 2 35.9	2.297	3.220	7.2	21.4
2 1	8 42.79	− 1 46.1	2.293	3.239	5.8	21.3
2 11	8 34.77	− 0 42.3	2.317	3.257	6.3	21.4
2 21	8 27.73	+ 0 30.6	2.371	3.275	8.3	21.5
3 2	8 22.28	+ 1 46.9	2.452	3.292	10.6	21.7

149981 2005 UO_{22} 1 29.5 163°.87 1°.2/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.10	+12 37.3	2.369	3.131	13.1	21.6
1 2	9 7.15	+12 46.5	2.279	3.137	10.3	21.4
1 12	9 0.19	+13 5.7	2.213	3.142	7.0	21.2
1 22	8 51.74	+13 32.7	2.175	3.146	3.5	21.0
2 1	8 42.55	+14 4.5	2.167	3.150	1.4	20.9
2 11	8 33.56	+14 37.4	2.189	3.153	4.6	21.1
2 21	8 25.62	+15 8.4	2.241	3.155	8.1	21.3
3 2	8 19.43	+15 34.8	2.319	3.158	11.2	21.5

366852 Ti 1 29.5 219°.73 3°.7/31.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.58	+ 6 35.9	2.319	3.060	14.0	22.0
1 2	9 7.68	+ 6 16.0	2.213	3.050	11.4	21.7
1 12	9 0.66	+ 6 8.7	2.130	3.040	8.4	21.5
1 22	8 52.00	+ 6 13.9	2.074	3.030	5.3	21.3
2 1	8 42.45	+ 6 30.5	2.046	3.019	3.7	21.2
2 11	8 32.96	+ 6 56.0	2.049	3.007	5.5	21.3
2 21	8 24.44	+ 7 26.8	2.081	2.994	8.7	21.5
3 2	8 17.68	+ 7 59.4	2.139	2.981	11.9	21.6

344475 2002 PG_{118} 1 29.5 96°.91 3°.4/31.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.60	+ 8 58.0	1.471	2.247	19.2	21.4
1 2	9 11.56	+ 8 46.4	1.405	2.266	15.3	21.2
1 12	9 3.53	+ 8 52.7	1.359	2.285	10.8	20.9
1 22	8 53.28	+ 9 15.3	1.337	2.303	6.1	20.7
2 1	8 42.07	+ 9 50.6	1.342	2.322	3.5	20.6
2 11	8 31.40	+10 32.8	1.375	2.339	6.7	20.8
2 21	8 22.58	+11 16.2	1.434	2.357	11.1	21.1
3 2	8 16.53	+11 55.8	1.517	2.373	15.1	21.4

395770 2012 VW_{59} 1 29.5 89°.86 4°.2/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.26	+23 43.6	1.382	2.197	18.2	21.1
1 2	9 11.92	+24 50.0	1.319	2.208	14.1	20.8
1 12	9 4.11	+26 4.0	1.276	2.220	9.5	20.6
1 22	8 53.65	+27 16.2	1.258	2.231	5.2	20.4
2 1	8 41.94	+28 16.5	1.267	2.242	4.9	20.4
2 11	8 30.79	+28 57.3	1.303	2.252	9.0	20.6
2 21	8 21.74	+29 16.3	1.363	2.263	13.4	20.9
3 2	8 15.89	+29 14.8	1.444	2.274	17.2	21.2

241348 2007 WX_{24} 1 29.5 351°.69 2°.0/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.13	+10 26.5	2.107	2.880	14.2	20.9
1 2	9 3.63	+10 32.8	2.016	2.878	11.3	20.7
1 12	8 58.04	+10 51.9	1.948	2.876	7.9	20.5
1 22	8 50.85	+11 22.3	1.906	2.875	4.2	20.3
2 1	8 42.86	+12 1.0	1.892	2.873	2.1	20.1
2 11	8 35.03	+12 43.7	1.907	2.872	5.0	20.3
2 21	8 28.26	+13 26.2	1.950	2.871	8.7	20.5
3 2	8 23.31	+14 4.9	2.018	2.871	12.0	20.7

185883 2000 QC_{43} 1 29.5 242°.04 1°.0/30.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.53	+13 3.6	2.343	3.109	13.1	21.4
1 2	9 6.97	+13 19.8	2.232	3.092	10.4	21.2
1 12	9 0.26	+13 46.7	2.145	3.075	7.1	20.9
1 22	8 51.87	+14 22.2	2.085	3.057	3.4	20.7
2 1	8 42.51	+15 3.0	2.055	3.039	1.2	20.5
2 11	8 33.14	+15 44.8	2.056	3.019	4.9	20.7
2 21	8 24.72	+16 24.1	2.086	3.000	8.6	20.9
3 2	8 18.05	+16 57.7	2.142	2.979	12.0	21.1

413111 2001 VS_{61} 1 29.5 74°.02 5°.7/ 1.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.38	+ 3 20.5	1.823	2.568	17.1	20.5
1 2	9 7.78	+ 2 37.4	1.750	2.583	14.1	20.3
1 12	9 0.79	+ 2 11.9	1.697	2.598	10.7	20.1
1 22	8 52.04	+ 2 5.0	1.668	2.614	7.5	19.9
2 1	8 42.49	+ 2 16.1	1.666	2.629	5.7	19.9
2 11	8 33.30	+ 2 42.0	1.692	2.644	7.1	20.0
2 21	8 25.48	+ 3 18.1	1.746	2.659	10.1	20.2
3 2	8 19.83	+ 3 59.0	1.823	2.675	13.2	20.4

416556 2004 CW_{47} 1 29.5 314°.10 3°.6/27.9 17

12 23	9 15.44	+28 13.9	1.987	2.785	14.0	20.1
1 2	9 10.54	+28 21.1	1.886	2.765	11.1	19.9
1 12	9 2.87	+28 27.3	1.808	2.745	7.7	19.6
1 22	8 53.06	+28 27.2	1.756	2.725	4.5	19.4
2 1	8 42.12	+28 15.9	1.733	2.706	4.1	19.3
2 11	8 31.39	+27 50.5	1.739	2.687	7.2	19.5
2 21	8 22.09	+27 11.0	1.771	2.668	11.0	19.7
3 2	8 15.22	+26 19.4	1.828	2.650	14.5	19.8

285240 1997 WW_{15} 1 29.5 53°.61 0°.3/29.7 18

12 23	9 13.34	+14 53.4	1.291	2.100	19.6	21.4
1 2	9 9.46	+15 17.0	1.233	2.118	15.2	21.1
1 12	9 2.33	+15 56.1	1.196	2.138	10.1	20.9
1 22	8 52.80	+16 45.4	1.181	2.157	4.5	20.6
2 1	8 42.26	+17 37.8	1.193	2.177	1.4	20.5
2 11	8 32.35	+18 25.8	1.231	2.197	6.9	20.9
2 21	8 24.49	+19 4.2	1.294	2.218	11.9	21.2
3 2	8 19.63	+19 30.4	1.379	2.238	16.2	21.5

14905 1993 FV_{27} 1 29.5 341°.01 0°.4/29.7 18

12 23	9 12.80	+15 55.3	1.347	2.156	18.9	18.8
1 2	9 9.29	+15 59.7	1.267	2.153	14.9	18.5
1 12	9 2.46	+16 17.3	1.208	2.150	10.0	18.2
1 22	8 52.99	+16 44.6	1.171	2.147	4.5	17.9
2 1	8 42.15	+17 16.0	1.161	2.145	1.4	17.7
2 11	8 31.62	+17 45.2	1.177	2.143	7.1	18.0
2 21	8 22.96	+18 7.8	1.217	2.142	12.4	18.3
3 2	8 17.32	+18 20.9	1.279	2.141	17.0	18.6

264096 2009 SC_{292} 1 29.5 169°.14 0°.3/29.7 18

12 23	9 12.75	+15 49.6	2.313	3.086	13.1	21.6
1 2	9 7.74	+16 0.2	2.224	3.089	10.2	21.4
1 12	9 0.63	+16 18.8	2.158	3.092	6.8	21.2
1 22	8 51.96	+16 42.6	2.120	3.095	3.1	21.0
2 1	8 42.52	+17 8.4	2.113	3.097	1.0	20.8
2 11	8 33.30	+17 32.6	2.135	3.098	4.8	21.1
2 21	8 25.18	+17 52.5	2.187	3.100	8.4	21.3
3 2	8 18.90	+18 6.5	2.265	3.100	11.6	21.5

453775 2011 HQ_{5} 1 29.5 260°.59 2°.7/27.9 17

12 23	9 16.35	+20 17.5	1.752	2.546	15.8	21.8
1 2	9 11.90	+21 20.7	1.640	2.518	12.5	21.5
1 12	9 4.28	+22 37.3	1.550	2.490	8.4	21.2
1 22	8 53.93	+24 0.8	1.486	2.461	4.1	20.9
2 1	8 41.79	+25 22.3	1.452	2.430	3.5	20.8
2 11	8 29.36	+26 32.9	1.446	2.399	7.9	21.0
2 21	8 18.19	+27 26.3	1.468	2.366	12.7	21.2
3 2	8 9.66	+28 0.3	1.513	2.333	17.0	21.3

467988 2012 TT_{33} 1 29.5 175°.19 1°.0/28.7 17

12 23	9 9.59	+19 39.6	2.844	3.621	10.8	22.3
1 2	9 4.98	+20 8.5	2.753	3.623	8.3	22.2
1 12	8 58.65	+20 42.5	2.688	3.625	5.5	22.0
1 22	8 51.05	+21 18.5	2.651	3.626	2.4	21.8
2 1	8 42.84	+21 52.8	2.645	3.627	1.4	21.7
2 11	8 34.77	+22 22.4	2.670	3.627	4.4	21.9
2 21	8 27.57	+22 45.1	2.725	3.627	7.4	22.1
3 2	8 21.85	+22 59.8	2.806	3.627	10.0	22.3

412667 2014 OY_{196} 1 29.5 170°.00 2°.4/31.2 18

12 23	9 12.02	+ 8 28.7	2.116	2.872	14.7	21.7
1 2	9 7.37	+ 8 44.7	2.025	2.875	11.7	21.5
1 12	9 0.51	+ 9 15.5	1.957	2.879	8.3	21.3
1 22	8 51.96	+ 9 59.5	1.916	2.882	4.6	21.1
2 1	8 42.54	+10 53.0	1.904	2.884	2.4	21.0
2 11	8 33.30	+11 51.3	1.922	2.885	5.2	21.1
2 21	8 25.18	+12 49.2	1.968	2.886	8.9	21.4
3 2	8 19.00	+13 42.6	2.041	2.886	12.2	21.6

333947 1999 XA_{31} 1 29.5 50°.70 5°.3/ 1.2 18

12 23	9 11.80	+ 5 36.5	1.236	2.023	21.5	19.9
1 2	9 8.42	+ 5 14.9	1.171	2.035	17.5	19.7
1 12	9 1.78	+ 5 17.4	1.124	2.047	12.8	19.5
1 22	8 52.64	+ 5 44.3	1.099	2.060	8.1	19.2
2 1	8 42.33	+ 6 32.2	1.098	2.073	5.3	19.1
2 11	8 32.51	+ 7 34.1	1.122	2.086	7.9	19.3
2 21	8 24.65	+ 8 41.2	1.171	2.100	12.4	19.6
3 2	8 19.79	+ 9 45.7	1.241	2.114	16.7	19.9

224360 2005 UK_{122} 1 29.5 186°.22 2°.8/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.80	+ 8 35.9	2.126	2.885	14.5	21.8
1 2	9 6.43	+ 8 32.7	2.034	2.884	11.7	21.6
1 12	8 59.88	+ 8 42.9	1.963	2.884	8.3	21.3
1 22	8 51.68	+ 9 5.6	1.919	2.883	4.8	21.1
2 1	8 42.64	+ 9 38.3	1.904	2.882	2.8	21.0
2 11	8 33.75	+10 17.2	1.918	2.881	5.3	21.1
2 21	8 25.96	+10 58.1	1.961	2.880	8.8	21.4
3 2	8 20.06	+11 37.2	2.029	2.878	12.2	21.6

239045 2006 DV_{202} 1 29.5 229°.91 1°.2/28.7 18

12 23	9 12.85	+17 8.2	1.784	2.576	15.6	20.9
1 2	9 8.72	+18 3.1	1.690	2.567	12.2	20.6
1 12	9 1.82	+19 11.4	1.618	2.559	8.1	20.4
1 22	8 52.68	+20 27.8	1.573	2.549	3.5	20.1
2 1	8 42.28	+21 44.9	1.557	2.539	2.1	19.9
2 11	8 31.93	+22 55.0	1.569	2.529	6.6	20.2
2 21	8 22.93	+23 52.4	1.610	2.518	11.1	20.4
3 2	8 16.34	+24 34.4	1.673	2.507	15.1	20.6

499980 2011 LX_{18} 1 29.5 189°.21 5°.2/ 3.7 17

12 23	9 7.03	− 4 6.5	2.964	3.645	12.4	22.5
1 2	9 2.91	− 4 2.3	2.861	3.644	10.6	22.4
1 12	8 57.25	− 3 41.2	2.779	3.642	8.5	22.2
1 22	8 50.45	− 3 2.9	2.723	3.640	6.5	22.1
2 1	8 43.05	− 2 8.2	2.695	3.638	5.2	22.0
2 11	8 35.73	− 1 0.3	2.698	3.635	5.7	22.0
2 21	8 29.13	+ 0 16.7	2.730	3.632	7.4	22.1
3 2	8 23.79	+ 1 37.9	2.790	3.628	9.5	22.3

65898 1998 DG_{9} 1 29.5 324°.02 2°.3/31.2 18

12 23	9 6.75	+ 7 44.6	1.737	2.515	16.6	18.8
1 2	9 3.91	+ 8 24.8	1.642	2.506	13.3	18.5
1 12	8 58.57	+ 9 26.5	1.569	2.498	9.4	18.3
1 22	8 51.23	+10 47.2	1.521	2.490	5.1	18.0
2 1	8 42.77	+12 21.5	1.500	2.482	2.3	17.8
2 11	8 34.38	+14 1.3	1.508	2.475	5.8	18.0
2 21	8 27.21	+15 38.3	1.543	2.468	10.3	18.3
3 2	8 22.22	+17 5.7	1.603	2.462	14.3	18.5

111902 2002 FJ_{29} 1 29.5 232°.66 2°.9/27.7 18

12 23	9 14.80	+22 43.4	1.953	2.747	14.4	20.4
1 2	9 10.10	+23 34.9	1.856	2.735	11.2	20.1
1 12	9 2.66	+24 33.8	1.783	2.723	7.5	19.9
1 22	8 53.04	+25 33.8	1.737	2.710	3.9	19.6
2 1	8 42.19	+26 27.9	1.719	2.696	3.5	19.6
2 11	8 31.41	+27 10.1	1.732	2.682	7.1	19.8
2 21	8 21.94	+27 37.0	1.771	2.667	11.1	20.0
3 2	8 14.82	+27 48.0	1.835	2.651	14.6	20.2

343303 2010 AO_{95} 1 29.5 284°.19 2°.3/27.8 17

12 23	9 9.17	+22 12.4	2.246	3.042	12.7	20.7
1 2	9 5.29	+23 0.9	2.152	3.033	9.8	20.5
1 12	8 59.21	+23 55.6	2.083	3.024	6.5	20.3
1 22	8 51.43	+24 51.6	2.041	3.015	3.3	20.1
2 1	8 42.74	+25 43.4	2.028	3.006	2.9	20.0
2 11	8 34.16	+26 26.0	2.046	2.997	6.1	20.2
2 21	8 26.65	+26 56.4	2.090	2.988	9.5	20.4
3 2	8 21.03	+27 13.5	2.159	2.979	12.6	20.6

329798 2004 QR_{2} 1 29.5 121°.53 0°.8/30.1 18

12 23	9 10.02	+12 26.9	2.095	2.869	14.2	21.3
1 2	9 5.85	+13 4.4	2.012	2.877	11.1	21.1
1 12	8 59.50	+13 54.9	1.953	2.886	7.5	20.9
1 22	8 51.52	+14 55.1	1.920	2.893	3.5	20.7
2 1	8 42.73	+16 0.0	1.917	2.901	1.1	20.5
2 11	8 34.16	+17 4.1	1.944	2.909	5.0	20.8
2 21	8 26.73	+18 2.5	2.000	2.916	8.8	21.0
3 2	8 21.23	+18 51.9	2.081	2.923	12.2	21.3

411211 2010 NU_{14} 1 29.5 63°.34 1°.0/30.2 18

12 23	9 13.90	+12 13.8	1.602	2.387	17.5	20.7
1 2	9 9.14	+12 47.0	1.549	2.420	13.6	20.6
1 12	9 1.73	+13 35.4	1.518	2.452	9.1	20.4
1 22	8 52.47	+14 34.3	1.511	2.485	4.2	20.2
2 1	8 42.49	+15 37.3	1.533	2.518	1.4	20.0
2 11	8 33.12	+16 37.8	1.584	2.550	5.8	20.4
2 21	8 25.45	+17 30.6	1.662	2.582	10.1	20.7
3 2	8 20.25	+18 12.8	1.764	2.613	13.7	21.0

64867 2001 YO_{58} 1 29.6 131°.23 2°.5/28.2 18

12 23	9 16.93	+21 50.7	1.759	2.554	15.7	19.6
1 2	9 11.68	+22 35.2	1.687	2.566	12.1	19.4
1 12	9 3.59	+23 26.5	1.637	2.578	8.0	19.2
1 22	8 53.38	+24 18.1	1.614	2.589	3.9	19.0
2 1	8 42.19	+25 3.0	1.620	2.599	3.1	18.9
2 11	8 31.41	+25 36.0	1.655	2.609	7.0	19.2
2 21	8 22.29	+25 54.3	1.717	2.619	11.0	19.5
3 2	8 15.75	+25 58.3	1.803	2.627	14.5	19.7

373682 2002 RT_5 1 29.6 60°.16 0°.7/29.9 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.38	+15 46.9	1.992	2.769	14.8	20.8
1 2	9 9.71	+15 39.3	1.936	2.802	11.4	20.7
1 12	9 1.82	+15 39.7	1.902	2.836	7.6	20.5
1 22	8 52.44	+15 45.5	1.896	2.870	3.5	20.3
2 1	8 42.54	+15 53.7	1.920	2.904	1.1	20.2
2 11	8 33.21	+16 1.3	1.973	2.937	5.0	20.5
2 21	8 25.36	+16 6.2	2.055	2.970	8.7	20.8
3 2	8 19.63	+16 7.2	2.162	3.003	11.8	21.1

424676 2008 RD_{96} 1 29.6 91°.66 0°.2/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.54	+17 32.5	2.077	2.861	14.0	21.6
1 2	9 7.77	+17 40.1	1.998	2.871	10.9	21.4
1 12	9 0.74	+17 55.0	1.943	2.880	7.2	21.2
1 22	8 52.06	+18 14.1	1.915	2.890	3.1	20.9
2 1	8 42.64	+18 33.6	1.916	2.900	1.1	20.8
2 11	8 33.54	+18 50.0	1.946	2.909	5.2	21.1
2 21	8 25.72	+19 1.0	2.005	2.919	9.0	21.3
3 2	8 19.93	+19 5.2	2.089	2.928	12.2	21.6

197110 2003 UN_{203} 1 29.6 75°.58 0°.6/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.39	+18 13.1	2.072	2.860	13.9	20.4
1 2	9 6.89	+18 34.2	1.998	2.873	10.7	20.2
1 12	9 0.15	+19 2.8	1.948	2.887	7.1	20.0
1 22	8 51.80	+19 35.0	1.924	2.900	3.1	19.7
2 1	8 42.73	+20 6.4	1.930	2.914	1.3	19.6
2 11	8 33.99	+20 33.1	1.965	2.927	5.3	19.9
2 21	8 26.53	+20 52.4	2.029	2.940	9.0	20.2
3 2	8 21.08	+21 3.1	2.117	2.954	12.2	20.4

110127 2001 SN_{145} 1 29.6 36°.24 4°.2/31.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.59	+ 6 58.5	1.541	2.319	18.3	19.0
1 2	9 6.15	+ 6 43.3	1.469	2.329	14.8	18.8
1 12	9 0.00	+ 6 47.1	1.417	2.340	10.7	18.6
1 22	8 51.83	+ 7 9.3	1.389	2.351	6.5	18.4
2 1	8 42.71	+ 7 47.0	1.387	2.363	4.2	18.3
2 11	8 33.96	+ 8 34.9	1.412	2.376	6.6	18.4
2 21	8 26.76	+ 9 26.7	1.462	2.388	10.6	18.7
3 2	8 22.00	+10 16.6	1.536	2.402	14.4	18.9

375312 2008 RY_{34} 1 29.6 192°.67 3°.0/31.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.23	+ 6 12.8	2.532	3.272	12.9	22.4
1 2	9 4.90	+ 6 19.3	2.433	3.271	10.5	22.2
1 12	8 58.74	+ 6 39.3	2.357	3.269	7.6	22.0
1 22	8 51.19	+ 7 11.8	2.308	3.266	4.7	21.8
2 1	8 42.92	+ 7 54.8	2.288	3.263	3.0	21.7
2 11	8 34.75	+ 8 44.5	2.299	3.260	4.7	21.8
2 21	8 27.46	+ 9 37.1	2.340	3.256	7.7	22.0
3 2	8 21.71	+10 28.5	2.407	3.251	10.6	22.1

92642 2000 QQ_{23} 1 29.6 56°.49 4°.3/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.32	+25 58.9	1.376	2.192	18.2	18.8
1 2	9 12.70	+26 35.9	1.315	2.204	14.1	18.6
1 12	9 4.58	+27 16.0	1.274	2.217	9.6	18.4
1 22	8 53.88	+27 50.9	1.258	2.229	5.3	18.2
2 1	8 42.07	+28 12.6	1.268	2.242	4.9	18.2
2 11	8 30.96	+28 16.3	1.304	2.256	8.8	18.4
2 21	8 22.06	+28 1.6	1.365	2.269	13.1	18.7
3 2	8 16.38	+27 31.1	1.448	2.282	16.9	19.0

373847 2003 GM_{12} 1 29.6 263°.25 3°.8/27.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.73	+26 56.1	2.087	2.882	13.6	21.3
1 2	9 9.95	+27 36.2	1.986	2.864	10.6	21.0
1 12	9 2.53	+28 18.9	1.910	2.847	7.4	20.8
1 22	8 53.00	+28 58.2	1.860	2.828	4.4	20.6
2 1	8 42.31	+29 28.0	1.840	2.810	4.3	20.6
2 11	8 31.70	+29 43.4	1.848	2.791	7.4	20.7
2 21	8 22.39	+29 42.7	1.884	2.772	10.9	20.9
3 2	8 15.35	+29 26.7	1.943	2.752	14.2	21.0

346204 2007 XN_{44} 1 29.6 254°.18 4°.6/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.86	+29 6.4	2.428	3.225	11.8	21.0
1 2	9 5.80	+30 26.4	2.345	3.223	9.2	20.8
1 12	8 59.55	+31 48.3	2.288	3.220	6.6	20.6
1 22	8 51.61	+33 5.7	2.259	3.218	4.7	20.5
2 1	8 42.77	+34 12.0	2.260	3.215	5.2	20.5
2 11	8 34.05	+35 2.2	2.290	3.213	7.4	20.7
2 21	8 26.40	+35 34.2	2.347	3.210	10.1	20.8
3 2	8 20.64	+35 48.3	2.428	3.207	12.6	21.0

450481 2005 XT_{60} 1 29.6 148°.54 0°.8/30.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.78	+14 4.0	1.883	2.655	15.6	22.7
1 2	9 11.29	+14 18.5	1.802	2.667	12.3	22.4
1 12	9 3.21	+14 44.4	1.744	2.677	8.3	22.2
1 22	8 53.21	+15 18.5	1.713	2.686	3.8	22.0
2 1	8 42.29	+15 56.5	1.711	2.695	1.2	21.8
2 11	8 31.69	+16 33.2	1.739	2.703	5.6	22.1
2 21	8 22.54	+17 5.1	1.796	2.710	9.8	22.4
3 2	8 15.71	+17 29.6	1.877	2.716	13.4	22.6

8178 1992 DQ_{10} 1 29.6 171°.88 1°.1/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.55	+13 28.6	1.981	2.751	15.1	18.9
1 2	9 10.29	+13 35.8	1.893	2.755	11.9	18.7
1 12	9 2.55	+13 54.1	1.827	2.758	8.1	18.5
1 22	8 52.93	+14 21.0	1.788	2.761	3.9	18.2
2 1	8 42.37	+14 52.6	1.779	2.762	1.4	18.0
2 11	8 32.04	+15 24.7	1.799	2.763	5.4	18.3
2 21	8 23.03	+15 53.6	1.849	2.764	9.5	18.6
3 2	8 16.19	+16 16.7	1.923	2.763	13.1	18.8

109382 2001 QG_{165} 1 29.6 261°.99 3°.1/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.09	+26 15.3	2.319	3.113	12.4	19.9
1 2	9 7.49	+26 48.7	2.228	3.105	9.7	19.7
1 12	9 0.63	+27 24.0	2.160	3.098	6.6	19.5
1 22	8 52.07	+27 56.4	2.120	3.090	3.8	19.3
2 1	8 42.65	+28 21.0	2.110	3.082	3.6	19.3
2 11	8 33.40	+28 34.0	2.129	3.074	6.4	19.5
2 21	8 25.31	+28 34.1	2.176	3.066	9.6	19.7
3 2	8 19.19	+28 21.6	2.247	3.058	12.5	19.8

227864 2007 DL_{95} 1 29.6 171°.01 2°.2/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.52	+22 9.0	2.222	3.011	13.0	21.2
1 2	9 7.80	+22 49.9	2.137	3.014	10.1	21.0
1 12	9 0.83	+23 36.0	2.076	3.016	6.7	20.8
1 22	8 52.15	+24 22.6	2.043	3.017	3.3	20.6
2 1	8 42.63	+25 4.5	2.040	3.018	2.7	20.5
2 11	8 33.32	+25 37.1	2.067	3.019	5.9	20.7
2 21	8 25.20	+25 58.0	2.122	3.020	9.4	21.0
3 2	8 19.07	+26 6.7	2.201	3.020	12.4	21.2

456359 2006 TY_{92} 1 29.6 90°.46 9°.3/ 4.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.99	− 7 24.2	1.873	2.563	18.4	21.5
1 2	9 6.77	− 8 18.5	1.799	2.577	16.0	21.3
1 12	9 0.20	− 8 48.2	1.742	2.591	13.4	21.2
1 22	8 51.88	− 8 50.2	1.707	2.605	11.0	21.0
2 1	8 42.73	− 8 23.4	1.697	2.619	9.5	21.0
2 11	8 33.84	− 7 30.8	1.713	2.632	9.7	21.0
2 21	8 26.25	− 6 18.7	1.754	2.646	11.4	21.1
3 2	8 20.75	− 4 55.0	1.820	2.659	13.8	21.3

18376 Quirk 1 29.6 97°.22 5°.2/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.13	+30 52.7	2.082	2.876	13.6	19.3
1 2	9 11.47	+31 55.0	2.024	2.898	10.7	19.1
1 12	9 3.24	+32 55.5	1.990	2.920	7.7	19.0
1 22	8 53.17	+33 46.9	1.984	2.941	5.4	18.9
2 1	8 42.34	+34 23.1	2.007	2.962	5.7	18.9
2 11	8 32.01	+34 40.2	2.058	2.982	8.0	19.1
2 21	8 23.28	+34 38.3	2.136	3.003	10.8	19.3
3 2	8 16.93	+34 19.8	2.237	3.022	13.4	19.5

341529 2007 TT_{442} 1 29.6 55°.44 5°.3/ 1.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.86	+ 3 21.4	2.250	2.983	14.6	20.4
1 2	9 6.28	+ 2 30.7	2.163	2.988	12.1	20.2
1 12	8 59.69	+ 1 53.4	2.098	2.994	9.3	20.0
1 22	8 51.62	+ 1 30.9	2.059	3.000	6.6	19.9
2 1	8 42.83	+ 1 23.4	2.048	3.006	5.3	19.8
2 11	8 34.24	+ 1 29.3	2.065	3.012	6.4	19.9
2 21	8 26.70	+ 1 45.4	2.111	3.018	8.9	20.0
3 2	8 20.93	+ 2 8.2	2.181	3.025	11.6	20.2

258207 2001 SJ_{332} 1 29.6 100°.12 1°.5/28.7 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.03	+19 37.5	1.949	2.739	14.6	21.4
1 2	9 9.07	+20 15.0	1.881	2.757	11.2	21.2
1 12	9 1.67	+20 59.9	1.835	2.775	7.4	21.0
1 22	8 52.51	+21 47.0	1.816	2.792	3.3	20.7
2 1	8 42.56	+22 30.7	1.827	2.809	2.1	20.7
2 11	8 33.02	+23 6.3	1.868	2.826	5.9	21.0
2 21	8 24.90	+23 31.0	1.936	2.842	9.7	21.2
3 2	8 19.00	+23 44.1	2.028	2.858	12.9	21.5

52626 1997 WL_1 1 29.6 338°.52 4°.8/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.35	+ 9 1.4	1.494	2.280	18.4	18.4
1 2	9 7.09	+ 8 7.6	1.404	2.269	15.0	18.2
1 12	9 0.89	+ 7 27.4	1.334	2.259	11.0	17.9
1 22	8 52.36	+ 7 2.3	1.288	2.250	6.9	17.6
2 1	8 42.57	+ 6 52.2	1.267	2.242	4.8	17.5
2 11	8 32.93	+ 6 54.9	1.272	2.234	7.4	17.6
2 21	8 24.81	+ 7 6.7	1.302	2.227	11.7	17.8
3 2	8 19.30	+ 7 23.1	1.354	2.222	15.9	18.1

436374 2010 OY_{60} 1 29.6 15°.82 8°.7/ 4.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.14	− 3 56.7	1.737	2.463	18.5	20.2
1 2	9 3.23	− 4 53.8	1.661	2.470	15.9	20.0
1 12	8 57.98	− 5 27.6	1.604	2.477	13.1	19.9
1 22	8 50.95	− 5 35.0	1.568	2.485	10.4	19.7
2 1	8 43.05	− 5 15.0	1.557	2.494	8.8	19.6
2 11	8 35.40	− 4 30.7	1.570	2.504	9.2	19.7
2 21	8 29.02	− 3 28.2	1.609	2.515	11.3	19.8
3 2	8 24.72	− 2 15.0	1.670	2.526	14.0	20.0

161140 2002 RA_{152} 1 29.6 136°.30 0°.2/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.84	+18 32.6	2.228	3.010	13.2	19.7
1 2	9 7.93	+18 29.4	2.140	3.011	10.3	19.5
1 12	9 0.84	+18 31.7	2.075	3.012	6.8	19.3
1 22	8 52.14	+18 36.8	2.038	3.013	3.0	19.0
2 1	8 42.68	+18 41.7	2.030	3.014	1.0	18.9
2 11	8 33.47	+18 43.8	2.052	3.015	5.0	19.2
2 21	8 25.44	+18 41.2	2.103	3.016	8.7	19.4
3 2	8 19.34	+18 33.2	2.180	3.017	11.9	19.6

246126 2007 KY_{3} 1 29.6 309°.46 18°.4/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.77	−21 9.8	1.459	2.096	24.7	20.5
1 2	9 3.98	−22 52.7	1.367	2.076	23.3	20.3
1 12	8 59.18	−24 1.2	1.287	2.057	21.7	20.1
1 22	8 51.77	−24 24.3	1.221	2.037	20.1	19.9
2 1	8 42.72	−23 52.8	1.171	2.018	18.8	19.7
2 11	8 33.48	−22 23.6	1.139	2.000	18.4	19.6
2 21	8 25.60	−20 1.5	1.126	1.982	19.1	19.6
3 2	8 20.44	−16 59.1	1.132	1.965	20.7	19.7

131423 2001 OF_{77} 1 29.6 162°.28 5°.4/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.25	+37 53.3	3.016	3.789	10.3	20.5
1 2	9 10.24	+38 40.8	2.942	3.795	8.4	20.4
1 12	9 2.19	+39 22.9	2.894	3.800	6.6	20.3
1 22	8 52.69	+39 54.4	2.873	3.805	5.5	20.2
2 1	8 42.53	+40 11.0	2.883	3.810	5.8	20.3
2 11	8 32.66	+40 10.5	2.922	3.813	7.3	20.4
2 21	8 23.96	+39 53.2	2.988	3.817	9.1	20.5
3 2	8 17.09	+39 21.1	3.078	3.820	11.0	20.6

447268 2005 UJ_{378} 1 29.6 50°.14 3°.6/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.26	+ 8 57.8	1.281	2.076	20.5	21.1
1 2	9 8.75	+ 8 48.5	1.215	2.087	16.4	20.9
1 12	9 2.01	+ 9 0.0	1.167	2.098	11.6	20.7
1 22	8 52.82	+ 9 30.6	1.142	2.110	6.5	20.4
2 1	8 42.48	+10 16.0	1.142	2.123	3.6	20.3
2 11	8 32.62	+11 9.1	1.168	2.135	7.1	20.5
2 21	8 24.69	+12 2.8	1.219	2.148	12.0	20.8
3 2	8 19.71	+12 51.2	1.292	2.161	16.4	21.1

370755 2004 RZ_{231} 1 29.6 133°.79 3°.1/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.35	+24 57.9	2.029	2.826	13.8	21.3
1 2	9 8.69	+25 34.1	1.948	2.828	10.7	21.1
1 12	9 1.53	+26 13.4	1.891	2.830	7.2	20.9
1 22	8 52.51	+26 50.5	1.860	2.832	3.9	20.7
2 1	8 42.58	+27 19.7	1.859	2.834	3.6	20.6
2 11	8 32.94	+27 36.7	1.886	2.835	6.7	20.8
2 21	8 24.68	+27 40.0	1.941	2.837	10.2	21.1
3 2	8 18.65	+27 30.1	2.020	2.838	13.4	21.3

306787 2001 HS_{8} 1 29.6 315°.54 15°.2/ 3.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.31	−16 29.8	1.898	2.532	19.8	20.2
1 2	9 5.54	−18 15.1	1.766	2.482	18.5	20.0
1 12	9 0.09	−19 39.6	1.650	2.431	17.2	19.7
1 22	8 52.21	−20 34.5	1.552	2.380	15.9	19.5
2 1	8 42.56	−20 51.6	1.474	2.328	15.2	19.3
2 11	8 32.26	−20 25.9	1.417	2.277	15.5	19.2
2 21	8 22.66	−19 17.8	1.381	2.225	16.9	19.1
3 2	8 15.09	−17 33.0	1.365	2.174	19.1	19.1

457078 2008 EN_{90} 1 29.6 52°.25 11°.5/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 29.14	+47 22.6	1.747	2.520	16.7	20.9
1 2	9 22.17	+48 28.3	1.689	2.524	14.5	20.8
1 12	9 10.99	+49 18.3	1.651	2.527	12.5	20.6
1 22	8 56.72	+49 40.8	1.637	2.532	11.5	20.6
2 1	8 41.28	+49 27.1	1.647	2.536	11.9	20.6
2 11	8 26.92	+48 35.7	1.682	2.540	13.5	20.7
2 21	8 15.48	+47 11.8	1.739	2.544	15.7	20.9
3 2	8 7.99	+45 24.5	1.817	2.549	17.9	21.1

447173 2005 NP_{98} 1 29.6 184°.51 0°.7/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.63	+16 33.4	1.686	2.475	16.5	22.1
1 2	9 10.93	+17 12.0	1.600	2.476	12.9	21.8
1 12	9 3.31	+18 3.4	1.537	2.476	8.6	21.6
1 22	8 53.40	+19 2.4	1.499	2.475	3.7	21.3
2 1	8 42.28	+20 2.4	1.490	2.474	1.6	21.1
2 11	8 31.37	+20 56.4	1.510	2.472	6.5	21.5
2 21	8 22.01	+21 39.6	1.557	2.469	11.2	21.7
3 2	8 15.22	+22 9.6	1.628	2.466	15.2	22.0

57465 2001 SH_{108} 1 29.6 12°.30 7°.5/ 2.3 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.73	+ 0 41.9	1.716	2.458	18.1	18.5
1 2	9 6.88	− 0 23.1	1.633	2.459	15.3	18.3
1 12	9 0.47	− 1 9.4	1.569	2.460	12.1	18.1
1 22	8 52.10	− 1 33.9	1.528	2.462	9.2	17.9
2 1	8 42.72	− 1 35.4	1.513	2.465	7.6	17.8
2 11	8 33.55	− 1 15.9	1.524	2.467	8.6	17.9
2 21	8 25.72	− 0 40.2	1.560	2.470	11.3	18.0
3 2	8 20.15	+ 0 5.6	1.620	2.474	14.5	18.2

348457 2005 ST_{6} 1 29.6 76°.37 0°.1/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.43	+16 15.1	1.883	2.664	15.3	21.1
1 2	9 10.00	+16 35.9	1.825	2.696	11.8	21.0
1 12	9 2.17	+17 6.0	1.791	2.727	7.8	20.8
1 22	8 52.69	+17 41.2	1.783	2.758	3.4	20.6
2 1	8 42.58	+18 16.7	1.804	2.788	1.1	20.5
2 11	8 33.02	+18 48.1	1.855	2.818	5.4	20.8
2 21	8 24.99	+19 12.5	1.934	2.848	9.3	21.1
3 2	8 19.21	+19 28.5	2.039	2.877	12.5	21.4

82801 2001 QF_{27} 1 29.6 136°.69 1°.9/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.59	+22 27.9	2.618	3.403	11.4	19.9
1 2	9 5.93	+23 4.5	2.537	3.412	8.8	19.7
1 12	8 59.40	+23 45.1	2.481	3.419	5.8	19.5
1 22	8 51.49	+24 25.4	2.453	3.427	2.8	19.3
2 1	8 42.94	+25 1.5	2.456	3.434	2.3	19.3
2 11	8 34.61	+25 29.8	2.489	3.441	5.1	19.5
2 21	8 27.27	+25 48.4	2.551	3.448	8.1	19.7
3 2	8 21.58	+25 56.8	2.639	3.454	10.7	19.9

486811 2014 JO_{4} 1 29.6 249°.40 0°.7/29.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.10	+13 4.4	1.757	2.537	16.3	22.5
1 2	9 9.88	+13 36.6	1.650	2.518	13.0	22.3
1 12	9 2.77	+14 25.0	1.564	2.499	8.9	22.0
1 22	8 53.27	+15 26.6	1.504	2.478	4.1	21.6
2 1	8 42.30	+16 35.7	1.472	2.457	1.3	21.4
2 11	8 31.21	+17 45.0	1.470	2.434	6.3	21.7
2 21	8 21.36	+18 48.2	1.495	2.412	11.2	21.9
3 2	8 13.93	+19 40.6	1.544	2.388	15.6	22.1

277999 2006 UY_{86} 1 29.6 65°.98 2°.6/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.50	+20 55.9	1.231	2.050	19.8	20.6
1 2	9 12.38	+21 32.3	1.169	2.061	15.3	20.4
1 12	9 4.59	+22 18.6	1.127	2.072	10.1	20.1
1 22	8 54.00	+23 7.3	1.108	2.084	4.7	19.8
2 1	8 42.14	+23 49.2	1.115	2.096	3.3	19.8
2 11	8 30.93	+24 17.5	1.148	2.108	8.4	20.1
2 21	8 22.01	+24 29.0	1.204	2.120	13.4	20.4
3 2	8 16.48	+24 24.6	1.282	2.132	17.8	20.7

240280 2003 BC_{8} 1 29.6 21°.39 1°.1/30.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.67	+10 31.6	2.234	3.005	13.5	19.9
1 2	9 3.23	+11 19.6	2.144	3.007	10.7	19.7
1 12	8 57.80	+12 22.2	2.078	3.009	7.3	19.5
1 22	8 50.86	+13 36.4	2.039	3.011	3.6	19.3
2 1	8 43.14	+14 57.2	2.029	3.013	1.2	19.1
2 11	8 35.54	+16 18.7	2.050	3.016	4.7	19.4
2 21	8 28.93	+17 35.4	2.100	3.018	8.4	19.6
3 2	8 24.03	+18 43.1	2.176	3.021	11.6	19.8

320665 2008 CM_{176} 1 29.6 218°.13 2°.5/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.74	+19 50.5	1.980	2.773	14.2	20.8
1 2	9 7.66	+21 9.3	1.889	2.768	11.0	20.6
1 12	9 1.04	+22 39.3	1.822	2.763	7.3	20.3
1 22	8 52.39	+24 13.9	1.783	2.757	3.6	20.1
2 1	8 42.62	+25 45.1	1.774	2.751	3.2	20.1
2 11	8 32.91	+27 5.3	1.795	2.745	6.8	20.3
2 21	8 24.40	+28 9.2	1.843	2.739	10.7	20.5
3 2	8 18.08	+28 55.1	1.916	2.732	14.1	20.7

75236 1999 WB_{8} 1 29.6 319°.07 7°.1/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.37	+29 28.9	1.453	2.278	16.9	18.5
1 2	9 8.60	+31 3.4	1.372	2.265	13.5	18.2
1 12	9 2.34	+32 43.5	1.313	2.251	9.8	18.0
1 22	8 53.17	+34 17.8	1.279	2.239	7.3	17.8
2 1	8 42.35	+35 34.1	1.270	2.226	8.0	17.8
2 11	8 31.65	+36 23.2	1.286	2.215	11.4	18.0
2 21	8 22.81	+36 42.0	1.325	2.204	15.3	18.2
3 2	8 17.18	+36 32.9	1.384	2.193	18.9	18.4

239231 2006 SL_{111} 1 29.6 147°.08 2°.9/26.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.58	+27 58.9	3.150	3.931	9.7	22.3
1 2	9 6.41	+28 39.9	3.072	3.942	7.6	22.2
1 12	8 59.57	+29 20.9	3.020	3.952	5.2	22.0
1 22	8 51.53	+29 58.1	2.997	3.962	3.3	21.9
2 1	8 42.95	+30 27.6	3.006	3.971	3.3	21.9
2 11	8 34.57	+30 47.1	3.045	3.980	5.2	22.0
2 21	8 27.08	+30 55.3	3.114	3.988	7.5	22.2
3 2	8 21.07	+30 52.7	3.208	3.995	9.6	22.4

52768 1998 OR_{2} 1 29.6 337°.25 12°.5/21.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 56.01	+30 7.6	0.793	1.676	21.7	17.5
1 2	8 59.43	+31 43.9	0.671	1.598	18.2	16.9
1 12	8 58.70	+33 48.2	0.565	1.520	14.5	16.3
1 22	8 52.97	+36 16.0	0.476	1.443	12.5	15.7
2 1	8 41.86	+38 52.3	0.403	1.368	15.4	15.4
2 11	8 26.39	+41 12.2	0.345	1.295	22.9	15.1
2 21	8 9.09	+42 49.6	0.298	1.227	32.6	15.0
3 2	7 53.99	+43 26.4	0.258	1.164	42.9	14.8

74852 1999 TV_{65} 1 29.6 17°.34 0°.6/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.67	+14 52.7	1.185	2.008	20.1	18.2
1 2	9 6.30	+15 4.2	1.121	2.013	15.8	17.9
1 12	9 0.57	+15 32.1	1.076	2.021	10.6	17.7
1 22	8 52.25	+16 12.3	1.053	2.029	4.8	17.4
2 1	8 42.71	+16 57.9	1.054	2.039	1.4	17.2
2 11	8 33.67	+17 41.4	1.081	2.049	7.2	17.6
2 21	8 26.65	+18 16.8	1.131	2.061	12.6	17.9
3 2	8 22.70	+18 40.9	1.202	2.074	17.1	18.2

503395 2016 CY_{196} 1 29.6 279°.27 1°.7/30.7 17

12 23	9 9.18	+ 9 37.9	1.930	2.702	15.3	21.5
1 2	9 5.75	+10 14.8	1.819	2.680	12.3	21.3
1 12	8 59.85	+11 10.1	1.729	2.659	8.6	21.0
1 22	8 51.92	+12 21.6	1.666	2.637	4.4	20.7
2 1	8 42.77	+13 44.6	1.631	2.614	1.8	20.5
2 11	8 33.50	+15 12.2	1.626	2.592	5.6	20.7
2 21	8 25.27	+16 37.3	1.649	2.569	10.1	20.9
3 2	8 19.09	+17 54.0	1.697	2.547	14.1	21.1

255988 2006 TP_{91} 1 29.6 5°.54 6°.0/26.6 18

12 23	9 12.12	+28 42.9	1.379	2.205	17.6	19.4
1 2	9 8.98	+29 41.2	1.311	2.205	13.8	19.2
1 12	9 2.36	+30 41.6	1.264	2.206	9.8	19.0
1 22	8 53.06	+31 34.6	1.241	2.207	6.5	18.8
2 1	8 42.45	+32 10.5	1.244	2.210	6.7	18.8
2 11	8 32.34	+32 23.3	1.272	2.214	10.0	19.0
2 21	8 24.29	+32 12.2	1.323	2.218	14.1	19.2
3 2	8 19.42	+31 40.2	1.394	2.223	17.7	19.5

379467 2010 CV_{183} 1 29.6 31°.85 7°.5/24.3 18

12 23	9 15.72	+38 32.6	2.141	2.933	13.4	20.4
1 2	9 10.79	+39 41.1	2.073	2.935	11.0	20.2
1 12	9 3.05	+40 43.3	2.028	2.937	8.8	20.1
1 22	8 53.23	+41 31.0	2.009	2.939	7.6	20.0
2 1	8 42.42	+41 57.6	2.018	2.942	8.1	20.0
2 11	8 32.01	+41 59.6	2.053	2.944	9.9	20.1
2 21	8 23.23	+41 37.8	2.113	2.947	12.2	20.3
3 2	8 16.98	+40 55.8	2.195	2.949	14.5	20.5

436337 2010 HR_{23} 1 29.6 210°.63 7°.6/21.6 18

12 23	9 15.27	+43 8.5	2.787	3.560	11.1	20.9
1 2	9 10.16	+44 40.5	2.715	3.555	9.4	20.7
1 12	9 2.57	+46 5.7	2.669	3.550	8.1	20.7
1 22	8 53.04	+47 16.8	2.650	3.545	7.6	20.6
2 1	8 42.45	+48 7.5	2.658	3.540	8.2	20.6
2 11	8 31.99	+48 34.3	2.693	3.534	9.6	20.7
2 21	8 22.77	+48 37.4	2.752	3.528	11.3	20.8
3 2	8 15.69	+48 19.3	2.832	3.522	12.9	21.0

7996 Vedernikov 1 29.6 183°.56 3°.1/ 1.5 18

12 23	9 8.66	+ 3 46.5	3.061	3.780	11.3	18.9
1 2	9 4.14	+ 3 57.0	2.959	3.780	9.3	18.8
1 12	8 58.09	+ 4 20.0	2.880	3.780	6.9	18.6
1 22	8 50.92	+ 4 55.0	2.829	3.779	4.5	18.4
2 1	8 43.17	+ 5 40.1	2.809	3.778	3.1	18.3
2 11	8 35.49	+ 6 32.3	2.820	3.776	4.3	18.4
2 21	8 28.52	+ 7 28.2	2.861	3.773	6.7	18.6
3 2	8 22.81	+ 8 24.3	2.930	3.769	9.1	18.7

7714 Briccialdi 1 29.6 157°.20 0°.7/29.2 18

12 23	9 16.04	+17 29.3	1.792	2.578	15.8	19.1
1 2	9 10.99	+18 0.2	1.711	2.585	12.3	18.9
1 12	9 3.19	+18 41.5	1.653	2.591	8.1	18.6
1 22	8 53.31	+19 28.2	1.621	2.597	3.5	18.4
2 1	8 42.39	+20 14.4	1.618	2.601	1.6	18.2
2 11	8 31.77	+20 54.5	1.644	2.606	6.2	18.5
2 21	8 22.67	+21 24.9	1.698	2.609	10.5	18.8
3 2	8 16.02	+21 43.8	1.776	2.612	14.2	19.0

380014 2013 PS_{36} 1 29.6 180°.06 0°.9/30.1 18

12 23	9 12.23	+14 9.5	2.289	3.058	13.3	21.8
1 2	9 7.44	+14 16.6	2.197	3.059	10.4	21.6
1 12	9 0.54	+14 32.9	2.128	3.060	7.1	21.4
1 22	8 52.06	+14 56.0	2.087	3.060	3.3	21.2
2 1	8 42.80	+15 22.8	2.076	3.060	1.1	21.0
2 11	8 33.71	+15 49.8	2.095	3.059	4.8	21.2
2 21	8 25.71	+16 14.0	2.144	3.058	8.4	21.5
3 2	8 19.52	+16 33.2	2.218	3.057	11.6	21.7

182478 2001 SM_{121} 1 29.6 155°.15 0°.2/29.7 18

12 23	9 14.03	+16 0.0	2.449	3.216	12.6	21.3
1 2	9 8.61	+16 14.3	2.363	3.225	9.8	21.1
1 12	9 1.19	+16 36.1	2.301	3.234	6.5	21.0
1 22	8 52.31	+17 2.6	2.267	3.242	2.9	20.7
2 1	8 42.73	+17 30.4	2.265	3.249	0.9	20.6
2 11	8 33.38	+17 56.1	2.293	3.255	4.6	20.9
2 21	8 25.12	+18 17.2	2.351	3.261	8.0	21.1
3 2	8 18.61	+18 32.1	2.436	3.266	11.0	21.3

400167 2006 VS_{134} 1 29.6 75°.42 3°.7/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.78	+24 35.0	1.722	2.522	15.8	20.6
1 2	9 11.48	+25 37.0	1.670	2.551	12.1	20.5
1 12	9 3.38	+26 42.8	1.641	2.580	8.1	20.3
1 22	8 53.30	+27 44.5	1.638	2.609	4.5	20.1
2 1	8 42.45	+28 34.6	1.664	2.637	4.3	20.2
2 11	8 32.21	+29 8.3	1.719	2.665	7.5	20.4
2 21	8 23.77	+29 24.0	1.800	2.692	11.1	20.7
3 2	8 17.94	+29 23.3	1.904	2.719	14.2	21.0

351638 2005 YF_{45} 1 29.6 71°.40 1°.3/30.2 17

12 23	9 17.01	+13 11.1	1.368	2.161	19.5	21.3
1 2	9 12.05	+13 19.7	1.313	2.187	15.2	21.1
1 12	9 3.94	+13 43.9	1.277	2.214	10.2	20.9
1 22	8 53.59	+14 19.5	1.266	2.240	4.9	20.7
2 1	8 42.36	+15 0.8	1.282	2.266	1.7	20.5
2 11	8 31.84	+15 41.3	1.326	2.292	6.5	20.9
2 21	8 23.37	+16 16.2	1.395	2.318	11.3	21.2
3 2	8 17.82	+16 42.5	1.487	2.343	15.4	21.6

430022 2013 RO_{28} 1 29.6 155°.82 1°.3/28.7 18

12 23	9 11.51	+19 47.9	2.283	3.069	12.8	21.8
1 2	9 6.94	+20 20.3	2.198	3.073	9.9	21.6
1 12	9 0.23	+20 59.1	2.138	3.076	6.5	21.4
1 22	8 51.93	+21 40.3	2.104	3.080	2.9	21.2
2 1	8 42.86	+22 19.2	2.101	3.083	1.8	21.1
2 11	8 33.99	+22 51.8	2.128	3.086	5.3	21.3
2 21	8 26.25	+23 15.4	2.183	3.088	8.8	21.5
3 2	8 20.37	+23 28.9	2.264	3.091	11.9	21.7

465336 2007 VG_{133} 1 29.6 189°.12 1°.8/31.1 17

12 23	9 8.56	+ 9 54.6	2.738	3.491	11.8	22.0
1 2	9 4.27	+10 4.3	2.640	3.490	9.4	21.8
1 12	8 58.28	+10 24.4	2.567	3.489	6.6	21.7
1 22	8 51.04	+10 53.4	2.520	3.487	3.6	21.5
2 1	8 43.15	+11 29.1	2.504	3.485	1.9	21.3
2 11	8 35.37	+12 8.1	2.519	3.483	4.1	21.5
2 21	8 28.41	+12 47.3	2.564	3.480	7.1	21.7
3 2	8 22.87	+13 23.8	2.636	3.477	9.9	21.9

369552 2011 AS_{51} 1 29.6 141°.67 1°.6/30.7 18

12 23	9 10.06	+10 50.3	2.118	2.887	14.3	21.7
1 2	9 5.91	+11 10.8	2.032	2.891	11.3	21.5
1 12	8 59.61	+11 44.7	1.967	2.896	7.8	21.3
1 22	8 51.69	+12 29.5	1.930	2.900	4.0	21.1
2 1	8 42.95	+13 21.4	1.921	2.904	1.7	20.9
2 11	8 34.40	+14 15.5	1.943	2.908	5.0	21.2
2 21	8 26.97	+15 7.1	1.993	2.911	8.7	21.4
3 2	8 21.41	+15 52.8	2.068	2.915	12.0	21.6

247342 2001 UL_{210} 1 29.6 172°.42 8°.0/26.4 18

12 23	9 32.07	+39 22.1	1.887	2.659	15.6	20.6
1 2	9 23.71	+40 0.8	1.812	2.663	12.9	20.4
1 12	9 11.71	+40 29.8	1.759	2.665	10.1	20.2
1 22	8 57.04	+40 39.0	1.733	2.668	8.2	20.1
2 1	8 41.29	+40 21.2	1.735	2.669	8.3	20.1
2 11	8 26.38	+39 34.3	1.766	2.670	10.5	20.2
2 21	8 13.90	+38 22.1	1.824	2.670	13.3	20.4
3 2	8 4.87	+36 52.0	1.904	2.670	16.1	20.6

28113 1998 SD_{43} 1 29.6 315°.96 6°.5/26.7 18

12 23	9 14.29	+28 45.1	1.239	2.069	19.0	17.8
1 2	9 11.43	+29 39.1	1.156	2.052	15.1	17.5
1 12	9 4.55	+30 37.1	1.093	2.035	10.8	17.2
1 22	8 54.28	+31 28.6	1.052	2.019	7.1	17.0
2 1	8 42.07	+32 1.9	1.035	2.003	7.3	16.9
2 11	8 30.08	+32 8.9	1.043	1.988	11.3	17.1
2 21	8 20.33	+31 47.9	1.073	1.974	16.1	17.3
3 2	8 14.32	+31 2.8	1.122	1.960	20.5	17.5

872 Holda 1 29.6 285°.01 3°.8/31.9 18 R

12 23	9 8.87	+ 6 10.5	1.958	2.717	15.6	14.4
1 2	9 5.27	+ 6 4.9	1.861	2.709	12.7	14.2
1 12	8 59.36	+ 6 15.7	1.785	2.701	9.3	13.9
1 22	8 51.65	+ 6 42.9	1.733	2.692	5.8	13.7
2 1	8 42.96	+ 7 24.1	1.709	2.684	3.8	13.6
2 11	8 34.35	+ 8 15.2	1.714	2.676	5.9	13.7
2 21	8 26.85	+ 9 11.0	1.746	2.668	9.5	13.9
3 2	8 21.32	+10 6.1	1.804	2.660	13.1	14.1

280267 2003 AC_{25} 1 29.6 57°.77 8°.6/23.5 17

12 23	9 15.83	+25 57.7	1.180	2.009	19.8	19.4
1 2	9 12.44	+29 18.4	1.137	2.032	15.3	19.2
1 12	9 5.03	+32 47.7	1.117	2.056	11.0	19.0
1 22	8 54.37	+36 4.9	1.123	2.079	8.6	18.9
2 1	8 42.09	+38 49.3	1.156	2.103	9.9	19.1
2 11	8 30.37	+40 48.6	1.215	2.128	13.4	19.3
2 21	8 21.14	+42 1.3	1.296	2.152	17.1	19.6
3 2	8 15.72	+42 33.3	1.396	2.176	20.2	19.9

265327 2004 *OS* 1 29.6 157°.09 1°.3/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.54	+18 14.7	2.404	3.184	12.5	21.5
1 2	9 6.89	+19 16.4	2.319	3.190	9.6	21.3
1 12	9 0.19	+20 26.9	2.259	3.197	6.3	21.1
1 22	8 51.93	+21 41.1	2.227	3.203	2.8	20.9
2 1	8 42.89	+22 53.6	2.227	3.208	1.9	20.8
2 11	8 34.00	+23 59.0	2.258	3.213	5.3	21.0
2 21	8 26.13	+24 53.4	2.317	3.217	8.6	21.3
3 2	8 20.02	+25 35.1	2.403	3.221	11.6	21.5

237757 2001 YV_{127} 1 29.6 78°.85 4°.1/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.92	+24 16.5	1.459	2.268	17.7	20.2
1 2	9 12.91	+25 19.1	1.404	2.291	13.6	20.0
1 12	9 4.62	+26 27.0	1.372	2.314	9.1	19.8
1 22	8 53.94	+27 31.3	1.365	2.336	5.0	19.6
2 1	8 42.29	+28 22.8	1.385	2.358	4.7	19.7
2 11	8 31.33	+28 55.6	1.432	2.381	8.4	19.9
2 21	8 22.47	+29 8.2	1.505	2.402	12.5	20.2
3 2	8 16.64	+29 2.5	1.599	2.424	16.1	20.5

65349 2002 NR_{26} 1 29.6 147°.79 1°.4/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.17	+11 33.3	1.814	2.583	16.3	21.2
1 2	9 10.97	+11 59.2	1.734	2.594	12.9	21.0
1 12	9 3.12	+12 40.2	1.675	2.605	8.8	20.8
1 22	8 53.28	+13 32.8	1.644	2.615	4.3	20.5
2 1	8 42.47	+14 31.8	1.641	2.624	1.6	20.4
2 11	8 31.95	+15 31.1	1.668	2.633	5.7	20.7
2 21	8 22.88	+16 25.4	1.724	2.640	10.0	20.9
3 2	8 16.17	+17 11.1	1.804	2.647	13.7	21.2

306608 2000 OZ_{15} 1 29.6 178°.95 0°.6/29.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.73	+15 39.1	2.525	3.287	12.4	21.5
1 2	9 9.14	+15 36.6	2.430	3.289	9.7	21.3
1 12	9 1.56	+15 40.6	2.360	3.290	6.5	21.1
1 22	8 52.50	+15 49.2	2.318	3.291	3.0	20.9
2 1	8 42.73	+15 59.8	2.307	3.291	1.0	20.8
2 11	8 33.15	+16 9.7	2.328	3.290	4.5	21.0
2 21	8 24.60	+16 17.1	2.378	3.289	7.9	21.2
3 2	8 17.78	+16 20.4	2.455	3.287	10.9	21.4

15302 1992 TJ_{1} 1 29.6 148°.76 2°.3/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.55	+ 7 23.7	2.309	3.058	13.8	18.0
1 2	9 6.09	+ 7 54.5	2.221	3.067	11.0	17.9
1 12	8 59.63	+ 8 40.4	2.156	3.075	7.8	17.7
1 22	8 51.68	+ 9 39.5	2.118	3.082	4.4	17.5
2 1	8 42.99	+10 47.7	2.110	3.090	2.3	17.3
2 11	8 34.47	+12 0.1	2.132	3.096	4.7	17.5
2 21	8 26.95	+13 11.3	2.185	3.102	8.1	17.7
3 2	8 21.16	+14 17.1	2.264	3.108	11.2	17.9

266850 2009 UL_{61} 1 29.6 338°.47 0°.8/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.64	+13 8.1	1.875	2.659	15.3	21.1
1 2	9 5.95	+13 32.8	1.787	2.658	12.0	20.9
1 12	8 59.84	+14 10.9	1.722	2.657	8.1	20.7
1 22	8 51.86	+14 59.5	1.682	2.656	3.8	20.4
2 1	8 42.92	+15 53.6	1.671	2.655	1.2	20.2
2 11	8 34.15	+16 47.8	1.689	2.655	5.5	20.5
2 21	8 26.63	+17 36.9	1.734	2.654	9.7	20.7
3 2	8 21.23	+18 17.6	1.804	2.653	13.4	21.0

78558 2002 RO_{152} 1 29.6 288°.58 5°.6/ 2.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.95	+ 0 52.9	2.203	2.931	15.0	19.6
1 2	9 4.26	+ 0 26.9	2.105	2.925	12.6	19.4
1 12	8 58.54	+ 0 17.7	2.027	2.918	9.8	19.2
1 22	8 51.25	+ 0 26.6	1.974	2.912	7.1	19.0
2 1	8 43.12	+ 0 53.2	1.948	2.905	5.6	18.9
2 11	8 35.08	+ 1 34.6	1.950	2.899	6.6	19.0
2 21	8 27.99	+ 2 26.4	1.980	2.892	9.1	19.1
3 2	8 22.63	+ 3 23.5	2.035	2.886	12.0	19.3

54029 2000 GB_{105} 1 29.6 337°.32 4°.3/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.49	+24 23.9	1.370	2.197	17.6	19.4
1 2	9 7.04	+25 17.0	1.288	2.185	13.8	19.1
1 12	9 1.24	+26 18.1	1.227	2.174	9.4	18.9
1 22	8 52.69	+27 19.1	1.190	2.163	5.3	18.6
2 1	8 42.64	+28 10.4	1.179	2.154	5.1	18.5
2 11	8 32.81	+28 44.1	1.192	2.145	9.2	18.8
2 21	8 24.83	+28 56.6	1.230	2.137	13.9	19.0
3 2	8 19.92	+28 48.5	1.287	2.131	18.1	19.2

223683 2004 PA_{93} 1 29.6 115°.67 3°.4/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.40	+27 16.1	2.396	3.180	12.3	21.2
1 2	9 10.53	+27 57.1	2.329	3.201	9.6	21.1
1 12	9 2.48	+28 38.5	2.288	3.221	6.5	20.9
1 22	8 52.89	+29 15.0	2.274	3.241	3.9	20.8
2 1	8 42.65	+29 41.8	2.292	3.260	3.8	20.8
2 11	8 32.82	+29 55.7	2.339	3.278	6.2	21.0
2 21	8 24.30	+29 56.2	2.415	3.296	9.1	21.2
3 2	8 17.79	+29 44.2	2.515	3.313	11.7	21.4

293908 2007 *SP* 1 29.6 71°.08 11°.0/22.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 28.13	+52 22.4	2.234	2.980	14.3	20.1
1 2	9 20.73	+53 42.0	2.200	3.003	12.7	20.1
1 12	9 9.70	+54 44.2	2.189	3.026	11.5	20.0
1 22	8 56.12	+55 19.9	2.200	3.049	11.0	20.0
2 1	8 41.67	+55 23.2	2.236	3.072	11.4	20.1
2 11	8 28.27	+54 53.5	2.296	3.095	12.5	20.2
2 21	8 17.45	+53 55.1	2.377	3.118	13.8	20.3
3 2	8 10.09	+52 34.8	2.478	3.141	15.2	20.5

258830 2002 OB_{28} 1 29.6 184°.30 0°.3/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.71	+15 1.8	2.170	2.942	13.8	22.5
1 2	9 8.76	+15 22.8	2.077	2.942	10.8	22.3
1 12	9 1.53	+15 53.8	2.009	2.942	7.3	22.1
1 22	8 52.58	+16 31.7	1.967	2.941	3.3	21.8
2 1	8 42.73	+17 12.3	1.956	2.940	1.0	21.7
2 11	8 33.05	+17 51.1	1.975	2.938	5.1	21.9
2 21	8 24.52	+18 24.5	2.023	2.935	9.0	22.2
3 2	8 17.95	+18 50.5	2.096	2.932	12.3	22.4

416926 2005 SV_{62} 1 29.6 141°.87 2°.1/31.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.57	+10 1.2	2.179	2.940	14.2	22.6
1 2	9 6.98	+10 10.7	2.094	2.948	11.3	22.4
1 12	9 0.26	+10 32.9	2.032	2.956	7.9	22.2
1 22	8 51.98	+11 6.0	1.996	2.964	4.2	22.0
2 1	8 42.94	+11 46.9	1.990	2.971	2.1	21.9
2 11	8 34.10	+12 31.2	2.013	2.977	4.9	22.1
2 21	8 26.39	+13 14.9	2.066	2.984	8.5	22.3
3 2	8 20.54	+13 54.5	2.144	2.990	11.7	22.5

427269 2014 WO_{166} 1 29.6 92°.68 4°.5/ 1.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.55	+ 4 46.8	1.900	2.650	16.3	21.2
1 2	9 7.18	+ 4 29.1	1.823	2.663	13.3	21.0
1 12	9 0.50	+ 4 28.6	1.766	2.676	9.9	20.8
1 22	8 52.10	+ 4 45.2	1.735	2.688	6.4	20.6
2 1	8 42.90	+ 5 16.8	1.730	2.701	4.5	20.5
2 11	8 34.00	+ 5 59.4	1.755	2.713	6.2	20.7
2 21	8 26.38	+ 6 48.0	1.807	2.725	9.5	20.9
3 2	8 20.82	+ 7 37.4	1.884	2.737	12.7	21.1

360226 1999 TP_{161} 1 29.6 110°.64 0°.6/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.56	+13 57.3	1.875	2.652	15.5	21.6
1 2	9 9.55	+14 22.5	1.803	2.670	12.1	21.4
1 12	9 2.07	+14 59.7	1.754	2.688	8.1	21.2
1 22	8 52.79	+15 45.2	1.732	2.706	3.7	21.0
2 1	8 42.70	+16 33.8	1.738	2.723	1.1	20.8
2 11	8 32.99	+17 20.4	1.775	2.739	5.4	21.2
2 21	8 24.71	+18 0.7	1.839	2.755	9.5	21.5
3 2	8 18.67	+18 32.3	1.928	2.770	13.0	21.7

411245 2010 RZ_{68} 1 29.6 224°.01 2°.7/31.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.55	+ 9 34.8	2.100	2.857	14.7	21.7
1 2	9 8.78	+ 9 27.8	1.997	2.847	11.9	21.5
1 12	9 1.66	+ 9 33.4	1.915	2.837	8.4	21.3
1 22	8 52.69	+ 9 50.9	1.860	2.826	4.8	21.0
2 1	8 42.70	+10 17.8	1.834	2.814	2.7	20.8
2 11	8 32.76	+10 50.6	1.838	2.801	5.4	21.0
2 21	8 23.91	+11 25.3	1.871	2.788	9.3	21.2
3 2	8 17.04	+11 58.4	1.929	2.774	12.8	21.4

24940 Sankichiyama 1 29.6 164°.61 5°.8/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.04	+31 54.7	2.075	2.869	13.7	18.7
1 2	9 11.76	+33 8.3	2.001	2.873	10.8	18.5
1 12	9 3.73	+34 21.0	1.951	2.877	8.0	18.3
1 22	8 53.60	+35 24.9	1.928	2.881	6.0	18.2
2 1	8 42.43	+36 12.3	1.934	2.884	6.4	18.2
2 11	8 31.55	+36 38.5	1.969	2.886	8.8	18.4
2 21	8 22.19	+36 42.8	2.029	2.888	11.6	18.6
3 2	8 15.30	+36 27.5	2.113	2.889	14.3	18.7

373358 2012 KG_{27} 1 29.6 182°.05 1°.2/28.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.26	+18 59.7	2.396	3.177	12.4	21.7
1 2	9 6.71	+19 40.0	2.306	3.178	9.6	21.6
1 12	9 0.09	+20 27.5	2.240	3.178	6.3	21.3
1 22	8 51.92	+21 18.3	2.203	3.178	2.8	21.1
2 1	8 42.96	+22 7.7	2.195	3.177	1.7	21.0
2 11	8 34.15	+22 51.0	2.219	3.176	5.1	21.3
2 21	8 26.36	+23 25.4	2.271	3.175	8.6	21.5
3 2	8 20.34	+23 49.3	2.349	3.173	11.6	21.7

319003 2005 UE_{448} 1 29.6 202°.14 6°.9/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.38	+36 28.0	2.155	2.944	13.4	20.5
1 2	9 12.86	+37 33.0	2.077	2.941	10.9	20.3
1 12	9 4.49	+38 33.6	2.023	2.938	8.5	20.2
1 22	8 53.94	+39 21.5	1.996	2.935	7.0	20.1
2 1	8 42.32	+39 49.7	1.997	2.931	7.4	20.1
2 11	8 31.03	+39 54.4	2.026	2.927	9.5	20.2
2 21	8 21.32	+39 35.9	2.080	2.923	12.0	20.3
3 2	8 14.17	+38 57.4	2.156	2.918	14.5	20.5

245552 2005 UF_8 1 29.6 128°.91 2°.6/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.17	+21 37.6	1.732	2.525	16.0	20.7
1 2	9 12.72	+22 29.6	1.662	2.541	12.4	20.5
1 12	9 4.37	+23 29.0	1.616	2.555	8.2	20.2
1 22	8 53.87	+24 28.7	1.596	2.570	4.0	20.0
2 1	8 42.37	+25 21.4	1.605	2.583	3.2	20.0
2 11	8 31.30	+26 1.0	1.643	2.596	7.1	20.3
2 21	8 21.95	+26 24.9	1.708	2.608	11.1	20.5
3 2	8 15.24	+26 33.4	1.796	2.619	14.7	20.8

424235 2007 RR_{181} 1 29.6 113°.84 2°.8/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.16	+26 13.4	2.614	3.399	11.4	21.5
1 2	9 7.90	+26 49.4	2.542	3.416	8.8	21.4
1 12	9 0.69	+27 26.2	2.496	3.432	5.9	21.2
1 22	8 52.12	+27 59.7	2.479	3.448	3.4	21.1
2 1	8 42.94	+28 25.6	2.492	3.463	3.2	21.1
2 11	8 34.08	+28 40.9	2.535	3.478	5.6	21.3
2 21	8 26.33	+28 44.8	2.607	3.493	8.3	21.5
3 2	8 20.34	+28 37.6	2.704	3.507	10.8	21.7

362669 2011 UL_{38} 1 29.6 19°.41 1°.9/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.54	+11 48.3	1.413	2.212	18.7	21.1
1 2	9 7.34	+11 54.3	1.338	2.215	14.8	20.9
1 12	9 1.11	+12 17.6	1.282	2.218	10.2	20.6
1 22	8 52.54	+12 55.5	1.249	2.222	5.1	20.3
2 1	8 42.78	+13 43.1	1.242	2.226	2.1	20.2
2 11	8 33.35	+14 33.5	1.262	2.230	6.6	20.4
2 21	8 25.61	+15 20.7	1.308	2.235	11.5	20.7
3 2	8 20.60	+16 0.1	1.375	2.241	15.8	21.0

117139 2004 PV_{85} 1 29.6 145°.65 1°.4/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.47	+11 35.7	1.920	2.688	15.5	20.3
1 2	9 9.52	+11 58.6	1.838	2.699	12.3	20.1
1 12	9 2.11	+12 35.5	1.779	2.709	8.4	19.9
1 22	8 52.86	+13 23.4	1.747	2.718	4.1	19.7
2 1	8 42.70	+14 17.6	1.743	2.727	1.5	19.5
2 11	8 32.80	+15 12.6	1.770	2.734	5.4	19.8
2 21	8 24.24	+16 3.4	1.825	2.742	9.5	20.0
3 2	8 17.86	+16 46.7	1.905	2.748	13.1	20.3

484277 2007 JA_{33} 1 29.6 244°.06 0°.4/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.04	+15 52.6	1.770	2.557	15.9	21.7
1 2	9 9.81	+16 29.8	1.668	2.543	12.6	21.5
1 12	9 2.73	+17 20.8	1.589	2.527	8.4	21.2
1 22	8 53.33	+18 21.2	1.536	2.511	3.7	20.9
2 1	8 42.55	+19 24.8	1.511	2.495	1.4	20.7
2 11	8 31.74	+20 24.5	1.515	2.478	6.4	21.0
2 21	8 22.25	+21 14.8	1.547	2.460	11.1	21.2
3 2	8 15.18	+21 52.6	1.602	2.442	15.3	21.4

400594 2009 AQ_{32} 1 29.6 14°.59 0°.4/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.62	+14 47.7	1.473	2.277	17.8	20.7
1 2	9 7.42	+15 34.9	1.394	2.277	13.9	20.4
1 12	9 1.21	+16 39.1	1.337	2.278	9.3	20.1
1 22	8 52.63	+17 54.9	1.303	2.280	4.1	19.8
2 1	8 42.80	+19 14.3	1.297	2.281	1.5	19.7
2 11	8 33.21	+20 28.6	1.318	2.283	6.8	20.0
2 21	8 25.26	+21 30.9	1.365	2.285	11.8	20.3
3 2	8 20.01	+22 17.7	1.434	2.287	16.0	20.5

182400 2001 RZ_1 1 29.6 130°.94 4°.4/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.89	+29 17.7	1.884	2.680	14.8	20.4
1 2	9 13.23	+29 44.1	1.807	2.684	11.6	20.2
1 12	9 4.69	+30 9.2	1.753	2.687	8.1	20.0
1 22	8 54.03	+30 26.8	1.726	2.691	5.1	19.9
2 1	8 42.40	+30 30.9	1.727	2.694	4.9	19.9
2 11	8 31.24	+30 18.5	1.756	2.698	7.8	20.0
2 21	8 21.80	+29 49.7	1.813	2.701	11.3	20.2
3 2	8 14.98	+29 7.2	1.893	2.704	14.5	20.5

344548 2002 VK_{95} 1 29.6 87°.04 3°.1/27.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.25	+21 1.6	1.400	2.208	18.3	21.1
1 2	9 12.55	+22 7.4	1.342	2.228	14.1	20.9
1 12	9 4.52	+23 23.0	1.305	2.248	9.3	20.7
1 22	8 54.01	+24 39.6	1.294	2.268	4.5	20.4
2 1	8 42.42	+25 47.3	1.309	2.288	3.8	20.4
2 11	8 31.44	+26 38.5	1.352	2.307	8.1	20.7
2 21	8 22.54	+27 9.9	1.421	2.326	12.6	21.0
3 2	8 16.71	+27 22.2	1.511	2.344	16.4	21.3

462684 2009 UT_{108} 1 29.6 190°.65 1°.2/28.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.31	+19 37.7	2.417	3.198	12.4	22.7
1 2	9 7.52	+20 12.0	2.325	3.197	9.6	22.5
1 12	9 0.65	+20 52.7	2.257	3.195	6.3	22.3
1 22	8 52.21	+21 36.0	2.217	3.193	2.8	22.0
2 1	8 42.97	+22 17.4	2.208	3.190	1.7	22.0
2 11	8 33.86	+22 52.8	2.229	3.187	5.1	22.2
2 21	8 25.79	+23 19.4	2.280	3.183	8.6	22.4
3 2	8 19.51	+23 36.0	2.356	3.179	11.6	22.6

161597 2005 SR_{85} 1 29.6 153°.38 1°.6/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.01	+20 16.8	1.958	2.751	14.4	20.9
1 2	9 8.51	+20 47.6	1.875	2.753	11.2	20.7
1 12	9 1.52	+21 25.4	1.815	2.755	7.4	20.4
1 22	8 52.64	+22 5.6	1.782	2.757	3.3	20.2
2 1	8 42.84	+22 42.8	1.778	2.759	2.2	20.1
2 11	8 33.28	+23 12.3	1.803	2.761	6.0	20.4
2 21	8 25.07	+23 31.2	1.855	2.763	9.9	20.6
3 2	8 19.06	+23 38.8	1.932	2.764	13.4	20.8

122963 2000 SK_{215} 1 29.6 275°.85 3°.1/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.78	+23 20.0	1.625	2.430	16.4	20.0
1 2	9 11.61	+23 55.1	1.525	2.409	12.9	19.7
1 12	9 4.19	+24 37.4	1.446	2.388	8.7	19.4
1 22	8 54.06	+25 20.4	1.393	2.367	4.5	19.1
2 1	8 42.33	+25 56.6	1.367	2.345	3.8	19.0
2 11	8 30.60	+26 19.4	1.369	2.323	8.1	19.2
2 21	8 20.43	+26 25.5	1.396	2.301	12.8	19.4
3 2	8 13.11	+26 15.1	1.446	2.278	17.0	19.6

160150 2001 MP_{30} 1 29.6 77°.80 0°.7/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.17	+15 33.1	2.233	3.008	13.4	19.0
1 2	9 7.34	+15 27.5	2.155	3.021	10.5	18.8
1 12	9 0.44	+15 29.5	2.100	3.034	7.0	18.6
1 22	8 52.07	+15 36.8	2.073	3.046	3.3	18.4
2 1	8 43.04	+15 46.7	2.075	3.059	1.1	18.3
2 11	8 34.32	+15 56.5	2.108	3.072	4.7	18.6
2 21	8 26.78	+16 3.9	2.169	3.085	8.2	18.8
3 2	8 21.10	+16 7.4	2.255	3.097	11.4	19.0

450297 2004 PN_{42} 1 29.6 117°.41 3°.5/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.11	+ 7 37.3	1.734	2.495	17.2	22.1
1 2	9 10.17	+ 7 30.4	1.660	2.511	13.9	21.9
1 12	9 2.61	+ 7 40.3	1.606	2.525	9.9	21.7
1 22	8 53.11	+ 8 6.0	1.577	2.540	5.8	21.5
2 1	8 42.71	+ 8 44.2	1.576	2.554	3.5	21.4
2 11	8 32.68	+ 9 30.0	1.604	2.567	6.1	21.5
2 21	8 24.15	+10 17.9	1.660	2.580	10.0	21.8
3 2	8 17.98	+11 3.3	1.740	2.592	13.7	22.1

246028 2006 UJ_{67} 1 29.6 136°.57 7°.2/24.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 19.42	+36 27.1	2.108	2.897	13.7	21.4
1 2	9 13.67	+37 53.1	2.046	2.909	11.1	21.3
1 12	9 5.02	+39 14.4	2.008	2.921	8.7	21.1
1 22	8 54.21	+40 21.9	1.997	2.932	7.3	21.1
2 1	8 42.37	+41 8.1	2.014	2.942	7.8	21.1
2 11	8 30.93	+41 28.8	2.059	2.952	9.8	21.3
2 21	8 21.19	+41 24.7	2.129	2.962	12.2	21.4
3 2	8 14.06	+40 59.2	2.221	2.970	14.5	21.6

138640 2000 RO_{26} 1 29.6 163°.48 1°.1/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.19	+21 40.8	2.972	3.746	10.4	20.5
1 2	9 6.93	+21 50.7	2.882	3.750	8.1	20.3
1 12	8 59.99	+22 3.2	2.818	3.754	5.3	20.2
1 22	8 51.84	+22 15.6	2.783	3.758	2.4	20.0
2 1	8 43.13	+22 25.2	2.780	3.761	1.5	19.9
2 11	8 34.62	+22 29.8	2.808	3.765	4.3	20.1
2 21	8 27.01	+22 28.3	2.866	3.767	7.1	20.3
3 2	8 20.87	+22 20.2	2.951	3.770	9.6	20.5

492353 2014 HV_{19} 1 29.6 228°.53 1°.0/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.14	+14 0.5	1.625	2.411	17.2	22.1
1 2	9 10.76	+14 10.0	1.532	2.404	13.6	21.8
1 12	9 3.39	+14 33.1	1.460	2.396	9.3	21.5
1 22	8 53.62	+15 7.0	1.413	2.387	4.4	21.2
2 1	8 42.52	+15 46.8	1.394	2.378	1.4	21.0
2 11	8 31.54	+16 26.7	1.403	2.369	6.4	21.3
2 21	8 22.06	+17 1.8	1.439	2.359	11.3	21.6
3 2	8 15.20	+17 28.8	1.498	2.349	15.6	21.8

365118 2009 CO_{56} 1 29.6 322°.91 0°.7/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.81	+14 9.7	1.436	2.242	18.1	21.4
1 2	9 6.97	+14 26.6	1.349	2.231	14.3	21.1
1 12	9 1.05	+14 59.4	1.281	2.222	9.7	20.8
1 22	8 52.64	+15 44.9	1.237	2.212	4.5	20.5
2 1	8 42.84	+16 37.3	1.219	2.203	1.3	20.2
2 11	8 33.17	+17 29.4	1.227	2.195	6.8	20.6
2 21	8 25.09	+18 15.0	1.261	2.187	12.0	20.8
3 2	8 19.77	+18 50.0	1.317	2.180	16.5	21.1

130659 2000 SY_{98} 1 29.6 39°.67 3°.4/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.35	+10 9.4	1.330	2.125	19.8	19.8
1 2	9 8.78	+ 9 50.0	1.263	2.135	15.8	19.5
1 12	9 2.07	+ 9 48.4	1.214	2.146	11.2	19.3
1 22	8 52.98	+10 3.5	1.188	2.157	6.2	19.0
2 1	8 42.78	+10 31.9	1.188	2.169	3.4	18.9
2 11	8 33.06	+11 7.7	1.214	2.181	6.9	19.1
2 21	8 25.19	+11 45.2	1.265	2.194	11.7	19.4
3 2	8 20.18	+12 19.3	1.338	2.207	16.0	19.7

255655 2006 QS_{26} 1 29.6 114°.04 0°.3/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.79	+15 34.3	1.933	2.712	15.1	21.8
1 2	9 9.70	+15 51.9	1.859	2.728	11.7	21.6
1 12	9 2.19	+16 19.3	1.808	2.743	7.8	21.4
1 22	8 52.90	+16 53.2	1.784	2.758	3.5	21.2
2 1	8 42.82	+17 28.9	1.788	2.773	1.0	21.0
2 11	8 33.09	+18 1.9	1.823	2.787	5.4	21.4
2 21	8 24.77	+18 28.9	1.886	2.800	9.4	21.6
3 2	8 18.65	+18 48.0	1.973	2.813	12.8	21.9

457038 2008 CT_{193} 1 29.6 225°.85 4°.1/27.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.00	+29 11.5	2.298	3.084	12.8	22.4
1 2	9 12.27	+29 47.8	2.202	3.072	10.1	22.2
1 12	9 4.00	+30 24.2	2.129	3.061	7.1	22.0
1 22	8 53.77	+30 54.7	2.085	3.048	4.6	21.8
2 1	8 42.52	+31 13.7	2.070	3.035	4.5	21.8
2 11	8 31.45	+31 17.5	2.086	3.022	7.1	21.9
2 21	8 21.66	+31 5.3	2.129	3.007	10.3	22.1
3 2	8 14.07	+30 38.6	2.197	2.993	13.2	22.3

499952 2011 HP_{100} 1 29.6 187°.70 4°.8/25.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.00	+29 52.6	2.327	3.124	12.3	21.8
1 2	9 7.60	+31 4.5	2.247	3.124	9.7	21.7
1 12	9 0.88	+32 17.3	2.192	3.123	7.0	21.5
1 22	8 52.38	+33 24.4	2.165	3.123	5.0	21.4
2 1	8 42.97	+34 19.3	2.167	3.122	5.3	21.4
2 11	8 33.73	+34 57.4	2.198	3.121	7.6	21.5
2 21	8 25.68	+35 16.9	2.256	3.120	10.4	21.7
3 2	8 19.65	+35 18.6	2.337	3.119	12.9	21.9

221300 2005 UJ_{493} 1 29.6 84°.46 3°.0/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.59	+25 37.6	1.905	2.697	14.8	20.5
1 2	9 12.67	+25 55.5	1.840	2.717	11.4	20.3
1 12	9 4.13	+26 14.5	1.799	2.737	7.7	20.1
1 22	8 53.73	+26 29.4	1.784	2.756	4.0	19.9
2 1	8 42.61	+26 35.2	1.799	2.776	3.4	19.9
2 11	8 32.07	+26 29.1	1.844	2.795	6.6	20.2
2 21	8 23.22	+26 11.0	1.915	2.814	10.2	20.4
3 2	8 16.82	+25 42.4	2.011	2.832	13.4	20.7

60805 2000 HS_{23} 1 29.6 178°.60 3°.4/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.06	+24 9.8	2.037	2.826	14.1	19.8
1 2	9 11.72	+25 12.0	1.953	2.828	10.9	19.6
1 12	9 3.73	+26 19.6	1.893	2.830	7.4	19.4
1 22	8 53.68	+27 26.0	1.860	2.831	4.1	19.2
2 1	8 42.58	+28 23.9	1.858	2.831	3.9	19.2
2 11	8 31.67	+29 7.6	1.886	2.830	7.1	19.4
2 21	8 22.14	+29 34.5	1.941	2.828	10.7	19.6
3 2	8 14.94	+29 44.6	2.020	2.826	13.9	19.8

467897 2011 HY_{36} 1 29.6 208°.63 1°.9/27.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.45	+22 6.8	2.721	3.503	11.1	22.3
1 2	9 5.95	+22 52.7	2.625	3.498	8.6	22.1
1 12	8 59.56	+23 43.4	2.554	3.492	5.7	21.9
1 22	8 51.75	+24 35.0	2.513	3.486	2.8	21.7
2 1	8 43.19	+25 22.9	2.502	3.479	2.4	21.7
2 11	8 34.72	+26 3.1	2.522	3.472	5.1	21.8
2 21	8 27.12	+26 33.2	2.571	3.465	8.1	22.0
3 2	8 21.10	+26 52.1	2.646	3.457	10.8	22.2

190324 1998 OC_{13} 1 29.6 152°.54 1°.0/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.97	+19 3.8	1.875	2.656	15.4	21.8
1 2	9 13.14	+19 25.2	1.795	2.666	12.0	21.6
1 12	9 4.60	+19 54.2	1.738	2.675	7.9	21.4
1 22	8 54.03	+20 26.2	1.708	2.684	3.5	21.1
2 1	8 42.51	+20 55.9	1.708	2.691	1.7	21.0
2 11	8 31.34	+21 18.7	1.738	2.698	6.0	21.3
2 21	8 21.72	+21 32.2	1.796	2.704	10.2	21.6
3 2	8 14.54	+21 35.7	1.879	2.709	13.8	21.8

303440 2005 AR_{60} 1 29.6 44°.65 1°.4/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.98	+17 43.3	1.362	2.176	18.5	20.3
1 2	9 8.58	+18 28.9	1.298	2.187	14.3	20.1
1 12	9 1.99	+19 28.0	1.254	2.199	9.4	19.8
1 22	8 52.98	+20 33.9	1.234	2.211	4.1	19.6
2 1	8 42.83	+21 38.1	1.240	2.223	2.3	19.5
2 11	8 33.16	+22 32.6	1.274	2.236	7.3	19.8
2 21	8 25.38	+23 12.4	1.332	2.250	12.2	20.1
3 2	8 20.50	+23 36.0	1.412	2.263	16.3	20.4

115194 2003 SF_{107} 1 29.6 196°.51 0°.6/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.37	+14 57.0	2.209	2.976	13.8	21.3
1 2	9 10.06	+15 7.8	2.111	2.973	10.8	21.1
1 12	9 2.46	+15 27.9	2.038	2.969	7.3	20.8
1 22	8 53.09	+15 54.5	1.991	2.965	3.4	20.6
2 1	8 42.79	+16 24.0	1.975	2.959	1.0	20.4
2 11	8 32.62	+16 52.6	1.990	2.953	5.1	20.7
2 21	8 23.60	+17 17.0	2.034	2.946	8.9	20.9
3 2	8 16.54	+17 35.3	2.103	2.938	12.3	21.1

8816 Gamow 1 29.6 78°.04 2°.0/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.55	+20 44.3	1.584	2.385	16.9	17.8
1 2	9 11.57	+21 19.7	1.524	2.406	13.0	17.6
1 12	9 3.65	+22 2.5	1.485	2.427	8.6	17.4
1 22	8 53.60	+22 46.6	1.472	2.448	3.9	17.1
2 1	8 42.67	+23 25.2	1.488	2.469	2.7	17.1
2 11	8 32.32	+23 52.9	1.531	2.489	6.9	17.4
2 21	8 23.82	+24 7.4	1.601	2.510	11.1	17.7
3 2	8 18.02	+24 8.8	1.693	2.530	14.8	18.0

464709 2002 QN_{93} 1 29.6 137°.62 0°.5/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.03	+17 58.1	2.479	3.257	12.2	22.2
1 2	9 6.38	+18 22.1	2.395	3.265	9.4	22.0
1 12	8 59.82	+18 52.7	2.336	3.273	6.2	21.8
1 22	8 51.85	+19 26.7	2.305	3.280	2.7	21.6
2 1	8 43.20	+20 0.3	2.304	3.287	1.1	21.5
2 11	8 34.77	+20 29.9	2.333	3.294	4.6	21.7
2 21	8 27.36	+20 53.1	2.392	3.300	8.0	21.9
3 2	8 21.63	+21 8.6	2.476	3.307	10.8	22.1

395345 2011 QL_{50} 1 29.6 228°.17 0°.1/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.13	+15 11.7	1.936	2.714	15.1	21.9
1 2	9 10.40	+15 46.1	1.833	2.701	11.9	21.7
1 12	9 3.01	+16 33.4	1.751	2.687	8.0	21.4
1 22	8 53.46	+17 29.6	1.697	2.672	3.6	21.1
2 1	8 42.65	+18 29.4	1.672	2.657	1.2	20.9
2 11	8 31.83	+19 26.4	1.678	2.640	5.9	21.2
2 21	8 22.21	+20 15.5	1.711	2.623	10.4	21.4
3 2	8 14.82	+20 53.9	1.769	2.605	14.3	21.6

463916 2014 UL_{137} 1 29.6 216°.53 5°.6/25.4 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.42	+31 15.4	2.199	2.993	13.0	21.5
1 2	9 10.53	+32 32.3	2.113	2.986	10.3	21.3
1 12	9 3.01	+33 49.9	2.052	2.979	7.6	21.1
1 22	8 53.41	+35 0.5	2.018	2.971	5.7	20.9
2 1	8 42.69	+35 56.7	2.013	2.963	6.1	21.0
2 11	8 32.08	+36 33.1	2.037	2.954	8.5	21.1
2 21	8 22.79	+36 48.0	2.087	2.944	11.4	21.2
3 2	8 15.77	+36 43.0	2.160	2.935	14.1	21.4

337020 1995 OR_{2} 1 29.6 161°.51 2°.5/31.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.92	+ 9 20.1	2.513	3.265	12.7	21.2
1 2	9 5.48	+ 9 7.1	2.420	3.267	10.2	21.0
1 12	8 59.21	+ 9 4.5	2.350	3.269	7.3	20.9
1 22	8 51.59	+ 9 11.5	2.307	3.271	4.2	20.7
2 1	8 43.29	+ 9 26.3	2.294	3.272	2.5	20.6
2 11	8 35.16	+ 9 46.5	2.312	3.273	4.6	20.7
2 21	8 27.95	+10 9.2	2.358	3.275	7.6	20.9
3 2	8 22.31	+10 31.6	2.430	3.276	10.5	21.1

101969 1999 RJ_{45} 1 29.6 67°.06 0°.5/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.70	+14 41.6	2.011	2.783	14.8	19.4
1 2	9 10.06	+15 48.6	1.963	2.829	11.3	19.2
1 12	9 2.21	+17 6.1	1.939	2.875	7.4	19.1
1 22	8 52.85	+18 28.4	1.944	2.919	3.2	18.9
2 1	8 42.94	+19 48.8	1.979	2.963	1.2	18.8
2 11	8 33.56	+21 1.1	2.046	3.006	5.2	19.2
2 21	8 25.63	+22 1.6	2.142	3.049	8.8	19.5
3 2	8 19.79	+22 48.4	2.263	3.091	11.8	19.7

420633 2012 HD_{79} 1 29.6 262°.93 0°.8/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.30	+11 35.5	2.038	2.813	14.5	20.8
1 2	9 5.68	+12 20.0	1.936	2.801	11.5	20.6
1 12	8 59.75	+13 20.3	1.856	2.789	7.9	20.3
1 22	8 51.97	+14 33.4	1.804	2.777	3.8	20.1
2 1	8 43.14	+15 54.0	1.780	2.765	1.1	19.8
2 11	8 34.32	+17 15.5	1.787	2.752	5.3	20.1
2 21	8 26.54	+18 31.6	1.822	2.740	9.5	20.3
3 2	8 20.70	+19 37.7	1.882	2.727	13.1	20.5

82397 2001 NS_{2} 1 29.6 219°.88 1°.7/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.58	+20 26.6	1.973	2.765	14.4	19.9
1 2	9 9.06	+21 0.3	1.882	2.760	11.2	19.7
1 12	9 1.99	+21 41.5	1.814	2.754	7.4	19.4
1 22	8 52.95	+22 25.3	1.773	2.749	3.4	19.2
2 1	8 42.86	+23 6.1	1.762	2.743	2.3	19.1
2 11	8 32.93	+23 38.8	1.779	2.737	6.2	19.3
2 21	8 24.30	+24 0.4	1.824	2.730	10.2	19.5
3 2	8 17.89	+24 9.9	1.893	2.723	13.7	19.7

382066 2011 EQ_{44} 1 29.6 241°.18 4°.1/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.48	+28 27.4	2.199	2.993	13.0	20.8
1 2	9 9.62	+29 8.8	2.110	2.986	10.2	20.6
1 12	9 2.28	+29 51.0	2.044	2.978	7.1	20.3
1 22	8 53.05	+30 28.2	2.005	2.970	4.5	20.2
2 1	8 42.84	+30 54.7	1.996	2.962	4.6	20.2
2 11	8 32.83	+31 6.4	2.016	2.954	7.2	20.3
2 21	8 24.12	+31 2.2	2.063	2.946	10.4	20.5
3 2	8 17.56	+30 43.1	2.134	2.937	13.3	20.7

25323 1999 FC_{34} 1 29.6 204°87 0°1/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.36	+16 11.9	2.150	2.923	13.9	20.0
1 2	9 10.20	+16 33.9	2.052	2.917	10.9	19.8
1 12	9 2.63	+17 5.2	1.977	2.911	7.3	19.5
1 22	8 53.21	+17 42.6	1.929	2.904	3.3	19.3
2 1	8 42.79	+18 21.7	1.911	2.896	1.0	19.1
2 11	8 32.46	+18 57.8	1.924	2.887	5.3	19.4
2 21	8 23.29	+19 27.6	1.966	2.877	9.3	19.6
3 2	8 16.15	+19 49.0	2.034	2.866	12.8	19.8

336661 2009 XJ_{24} 1 29.6 86°92 2°1/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.93	+ 9 30.0	1.480	2.252	19.2	21.1
1 2	9 13.31	+ 9 59.7	1.425	2.286	15.1	20.9
1 12	9 4.73	+10 48.5	1.392	2.320	10.3	20.7
1 22	8 54.06	+11 51.9	1.383	2.353	5.3	20.5
2 1	8 42.58	+13 3.2	1.402	2.385	2.2	20.4
2 11	8 31.79	+14 14.5	1.451	2.416	6.2	20.7
2 21	8 22.93	+15 19.3	1.526	2.446	10.7	21.0
3 2	8 16.84	+16 13.4	1.625	2.476	14.6	21.3

197625 2004 JJ_{44} 1 29.6 278°52 3°5/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.34	+ 8 8.9	1.456	2.240	18.9	20.7
1 2	9 8.13	+ 8 9.2	1.364	2.230	15.4	20.5
1 12	9 1.85	+ 8 30.1	1.292	2.219	11.1	20.2
1 22	8 53.05	+ 9 11.1	1.242	2.209	6.3	19.9
2 1	8 42.81	+10 8.3	1.218	2.199	3.5	19.7
2 11	8 32.62	+11 15.1	1.222	2.188	7.0	19.9
2 21	8 23.94	+12 23.8	1.250	2.178	11.9	20.1
3 2	8 17.98	+13 27.4	1.301	2.167	16.5	20.3

404631 2014 HT_{9} 1 29.6 170°23 3°4/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.46	+24 57.9	2.098	2.883	13.8	22.1
1 2	9 12.69	+25 52.5	2.016	2.889	10.7	21.9
1 12	9 4.31	+26 51.0	1.958	2.894	7.3	21.7
1 22	8 53.94	+27 47.1	1.928	2.897	4.1	21.5
2 1	8 42.58	+28 34.1	1.928	2.900	3.9	21.5
2 11	8 31.47	+29 6.9	1.958	2.902	7.0	21.7
2 21	8 21.77	+29 23.6	2.017	2.903	10.4	21.9
3 2	8 14.37	+29 24.9	2.100	2.903	13.5	22.1

233095 2005 SJ_{3} 1 29.6 166°79 0°5/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.87	+17 28.8	1.800	2.583	15.9	21.4
1 2	9 12.47	+17 48.2	1.717	2.588	12.4	21.2
1 12	9 4.27	+18 16.9	1.656	2.593	8.3	20.9
1 22	8 53.96	+18 50.9	1.621	2.597	3.6	20.7
2 1	8 42.58	+19 24.8	1.616	2.600	1.4	20.5
2 11	8 31.49	+19 53.6	1.640	2.602	6.1	20.8
2 21	8 21.94	+20 14.0	1.691	2.603	10.5	21.1
3 2	8 14.88	+20 24.8	1.768	2.604	14.2	21.3

466198 2012 LB_{10} 1 29.6 200°56 1°2/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.95	+18 35.8	2.217	3.002	13.2	21.6
1 2	9 6.71	+19 18.8	2.126	3.001	10.2	21.4
1 12	9 0.27	+20 10.4	2.059	2.998	6.7	21.2
1 22	8 52.15	+21 6.1	2.020	2.996	3.0	20.9
2 1	8 43.14	+22 0.7	2.011	2.993	1.8	20.8
2 11	8 34.27	+22 49.2	2.032	2.990	5.5	21.1
2 21	8 26.48	+23 28.0	2.081	2.987	9.1	21.3
3 2	8 20.59	+23 55.4	2.155	2.983	12.3	21.5

437827 2015 DW_{216} 1 29.6 13°57 6°0/ 2.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.98	+ 0 12.1	1.688	2.440	18.0	20.0
1 2	9 2.52	+ 0 6.0	1.609	2.445	15.0	19.8
1 12	8 57.68	+ 0 24.2	1.550	2.450	11.6	19.6
1 22	8 51.04	+ 1 7.0	1.513	2.457	8.2	19.4
2 1	8 43.50	+ 2 12.4	1.501	2.465	6.1	19.3
2 11	8 36.18	+ 3 34.3	1.516	2.473	7.1	19.4
2 21	8 30.14	+ 5 4.8	1.558	2.483	10.2	19.6
3 2	8 26.19	+ 6 36.0	1.623	2.493	13.6	19.8

449168 2013 BA_{23} 1 29.6 26°69 6°7/ 1.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.69	+ 5 3.3	1.443	2.210	19.9	20.4
1 2	9 10.50	+ 3 55.3	1.363	2.211	16.5	20.2
1 12	9 3.25	+ 3 4.8	1.303	2.213	12.5	19.9
1 22	8 53.59	+ 2 34.7	1.265	2.215	8.7	19.7
2 1	8 42.70	+ 2 25.8	1.252	2.218	6.7	19.6
2 11	8 32.10	+ 2 36.1	1.266	2.220	8.5	19.7
2 21	8 23.18	+ 3 0.6	1.304	2.223	12.3	19.9
3 2	8 17.03	+ 3 33.2	1.365	2.226	16.2	20.2

298895 2004 TD_{43} 1 29.6 53°04 0°4/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.67	+17 30.3	1.386	2.194	18.6	21.1
1 2	9 10.60	+17 42.1	1.319	2.203	14.5	20.8
1 12	9 3.30	+18 5.3	1.271	2.214	9.6	20.6
1 22	8 53.58	+18 35.1	1.248	2.224	4.2	20.3
2 1	8 42.73	+19 5.4	1.251	2.235	1.5	20.1
2 11	8 32.40	+19 30.5	1.281	2.246	6.9	20.5
2 21	8 24.00	+19 46.6	1.336	2.257	11.8	20.8
3 2	8 18.54	+19 52.5	1.413	2.269	16.1	21.1

153859 2001 XB_{65} 1 29.6 4°51 4°9/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.34	+ 9 42.8	1.356	2.152	19.5	18.8
1 2	9 7.27	+ 8 41.0	1.281	2.152	15.8	18.6
1 12	9 1.15	+ 7 53.3	1.224	2.152	11.5	18.3
1 22	8 52.66	+ 7 21.5	1.191	2.154	7.1	18.1
2 1	8 43.00	+ 7 5.5	1.182	2.158	4.9	17.9
2 11	8 33.71	+ 7 2.9	1.199	2.162	7.6	18.1
2 21	8 26.14	+ 7 9.9	1.240	2.168	11.9	18.4
3 2	8 21.34	+ 7 21.8	1.303	2.175	16.1	18.6

130806 2000 TB_{66} 1 29.6 284°08 5°2/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.05	+27 45.1	1.549	2.361	16.7	19.5
1 2	9 11.92	+28 37.9	1.466	2.352	13.2	19.3
1 12	9 4.41	+29 34.1	1.405	2.344	9.2	19.0
1 22	8 54.19	+30 25.3	1.368	2.335	5.8	18.8
2 1	8 42.52	+31 2.2	1.358	2.326	5.9	18.8
2 11	8 31.10	+31 18.4	1.375	2.318	9.3	18.9
2 21	8 21.54	+31 12.5	1.417	2.309	13.5	19.2
3 2	8 15.02	+30 46.6	1.480	2.301	17.3	19.4

256110 2006 UX_{282} 1 29.6 17°02 7°9/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.03	+32 39.3	1.333	2.160	18.1	20.6
1 2	9 10.73	+33 49.7	1.275	2.165	14.4	20.4
1 12	9 3.70	+34 57.6	1.237	2.171	10.7	20.2
1 22	8 53.84	+35 51.8	1.222	2.178	8.1	20.1
2 1	8 42.68	+36 22.2	1.232	2.186	8.5	20.1
2 11	8 32.19	+36 23.6	1.266	2.195	11.4	20.3
2 21	8 24.01	+35 57.0	1.323	2.205	15.0	20.6
3 2	8 19.22	+35 7.5	1.400	2.216	18.4	20.8

138395 2000 HD_{5} 1 29.6 0°40 20°5/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.35	−26 42.6	1.533	2.120	25.3	19.5
1 2	9 4.34	−29 15.9	1.468	2.118	24.2	19.4
1 12	8 59.38	−31 13.9	1.415	2.116	23.0	19.3
1 22	8 51.99	−32 26.6	1.373	2.116	21.9	19.2
2 1	8 43.20	−32 45.9	1.346	2.116	21.0	19.1
2 11	8 34.47	−32 9.4	1.333	2.118	20.5	19.1
2 21	8 27.24	−30 41.3	1.336	2.121	20.6	19.1
3 2	8 22.69	−28 31.4	1.355	2.126	21.2	19.1

279284 2009 WT_{36} 1 29.6 41°06 5°1/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.48	+25 11.4	1.200	2.027	19.6	20.5
1 2	9 12.00	+26 14.4	1.138	2.034	15.3	20.3
1 12	9 4.66	+27 24.3	1.096	2.041	10.4	20.0
1 22	8 54.31	+28 30.6	1.077	2.049	6.1	19.8
2 1	8 42.53	+29 22.1	1.083	2.056	5.9	19.8
2 11	8 31.35	+29 51.0	1.114	2.065	10.0	20.1
2 21	8 22.54	+29 55.3	1.168	2.073	14.7	20.3
3 2	8 17.28	+29 37.7	1.242	2.082	18.8	20.6

377056 2002 TH_{262} 1 29.6 80°48 4°5/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.18	+30 0.1	2.204	2.999	12.9	20.9
1 2	9 9.22	+30 45.8	2.135	3.011	10.1	20.7
1 12	9 1.88	+31 30.4	2.091	3.023	7.2	20.5
1 22	8 52.82	+32 8.1	2.074	3.035	4.8	20.4
2 1	8 43.01	+32 33.3	2.085	3.046	4.9	20.4
2 11	8 33.59	+32 42.7	2.126	3.058	7.3	20.6
2 21	8 25.55	+32 35.9	2.193	3.070	10.1	20.8
3 2	8 19.65	+32 14.5	2.285	3.081	12.8	21.0

494949 2009 OW_{9} 1 29.6 159°01 0°3/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.29	+14 26.4	2.521	3.285	12.3	22.7
1 2	9 7.35	+14 57.1	2.432	3.293	9.6	22.6
1 12	9 0.48	+15 37.2	2.369	3.301	6.4	22.4
1 22	8 52.19	+16 23.4	2.333	3.307	2.9	22.1
2 1	8 43.20	+17 12.0	2.329	3.313	0.8	22.0
2 11	8 34.38	+17 58.8	2.356	3.319	4.4	22.3
2 21	8 26.53	+18 40.5	2.412	3.323	7.8	22.5
3 2	8 20.34	+19 14.8	2.496	3.327	10.7	22.7

197617 2004 JD_{34} 1 29.6 241°72 3°8/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.28	+ 7 14.5	1.687	2.452	17.5	21.2
1 2	9 9.25	+ 7 8.4	1.587	2.440	14.3	20.9
1 12	9 2.40	+ 7 20.4	1.508	2.428	10.4	20.7
1 22	8 53.28	+ 7 50.3	1.453	2.416	6.2	20.4
2 1	8 42.83	+ 8 35.7	1.425	2.403	3.8	20.2
2 11	8 32.38	+ 9 31.3	1.426	2.390	6.6	20.4
2 21	8 23.24	+10 30.8	1.453	2.376	11.0	20.6
3 2	8 16.52	+11 28.3	1.504	2.361	15.2	20.8

305563 2008 VL_{58} 1 29.6 358°84 4°3/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.09	+20 7.8	1.262	2.092	18.7	19.8
1 2	9 6.17	+21 54.0	1.190	2.089	14.5	19.5
1 12	9 0.83	+23 57.9	1.139	2.087	9.7	19.2
1 22	8 52.69	+26 8.6	1.112	2.087	5.2	19.0
2 1	8 43.01	+28 11.8	1.111	2.087	5.2	19.0
2 11	8 33.53	+29 54.5	1.136	2.088	9.8	19.2
2 21	8 25.94	+31 9.1	1.185	2.089	14.6	19.5
3 2	8 21.51	+31 54.1	1.254	2.092	18.8	19.8

144025 2004 BC_{15} 1 29.6 75°.63 1°.0/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.25	+18 21.6	1.682	2.480	16.2	20.1
1 2	9 9.08	+18 48.0	1.604	2.484	12.6	19.8
1 12	9 2.13	+19 24.2	1.547	2.488	8.3	19.6
1 22	8 53.05	+20 5.4	1.517	2.493	3.7	19.3
2 1	8 42.93	+20 45.6	1.514	2.497	1.7	19.2
2 11	8 33.13	+21 19.4	1.539	2.502	6.4	19.5
2 21	8 24.87	+21 43.1	1.591	2.506	10.8	19.8
3 2	8 19.10	+21 55.3	1.667	2.510	14.6	20.0

222816 2002 CG_{294} 1 29.6 12°.83 6°.1/26.4 18

12 23	9 14.61	+30 58.4	1.645	2.457	15.9	20.1
1 2	9 10.50	+31 53.4	1.575	2.459	12.6	19.9
1 12	9 3.24	+32 47.6	1.527	2.461	9.1	19.7
1 22	8 53.57	+33 32.3	1.503	2.463	6.4	19.5
2 1	8 42.78	+33 59.7	1.507	2.467	6.6	19.6
2 11	8 32.43	+34 4.8	1.537	2.470	9.5	19.7
2 21	8 23.94	+33 47.7	1.592	2.474	12.9	19.9
3 2	8 18.30	+33 11.4	1.668	2.478	16.1	20.2

338147 2002 QE_{127} 1 29.6 67°.93 0°.9/29.3 17

12 23	9 18.69	+17 57.0	1.239	2.049	20.2	21.3
1 2	9 13.81	+18 19.2	1.187	2.073	15.6	21.1
1 12	9 5.42	+18 53.4	1.155	2.097	10.3	20.9
1 22	8 54.48	+19 33.1	1.145	2.122	4.5	20.6
2 1	8 42.55	+20 10.7	1.163	2.146	1.9	20.5
2 11	8 31.45	+20 40.0	1.206	2.171	7.4	20.9
2 21	8 22.67	+20 57.4	1.275	2.195	12.4	21.3
3 2	8 17.16	+21 2.6	1.366	2.219	16.6	21.6

251228 2006 UH_{241} 1 29.6 114°.98 1°.1/30.3 18

12 23	9 16.12	+14 20.1	2.049	2.819	14.7	20.3
1 2	9 10.56	+14 17.3	1.974	2.836	11.5	20.1
1 12	9 2.70	+14 23.8	1.923	2.853	7.8	19.9
1 22	8 53.18	+14 37.1	1.898	2.870	3.7	19.7
2 1	8 42.94	+14 54.1	1.903	2.886	1.3	19.6
2 11	8 33.07	+15 11.4	1.938	2.902	5.1	19.9
2 21	8 24.56	+15 26.2	2.002	2.917	8.9	20.1
3 2	8 18.15	+15 36.6	2.091	2.932	12.2	20.4

155532 1999 TR_{133} 1 29.6 206°.36 0°.3/29.9 17

12 23	9 11.70	+15 19.9	2.614	3.380	11.9	21.5
1 2	9 6.92	+15 37.1	2.512	3.374	9.3	21.3
1 12	9 0.24	+16 2.3	2.436	3.368	6.3	21.1
1 22	8 52.12	+16 32.9	2.387	3.361	2.9	20.8
2 1	8 43.24	+17 5.8	2.369	3.353	0.8	20.6
2 11	8 34.45	+17 37.5	2.382	3.345	4.4	20.9
2 21	8 26.56	+18 5.2	2.425	3.337	7.7	21.1
3 2	8 20.25	+18 27.0	2.495	3.328	10.7	21.3

98531 2000 VK_{38} 1 29.6 64°.07 3°.7/27.8 18

12 23	9 17.19	+23 49.3	1.404	2.217	18.1	19.4
1 2	9 12.48	+24 40.6	1.350	2.239	13.9	19.2
1 12	9 4.47	+25 37.3	1.318	2.261	9.3	19.0
1 22	8 54.06	+26 31.2	1.310	2.283	4.9	18.8
2 1	8 42.68	+27 13.6	1.330	2.306	4.4	18.8
2 11	8 32.03	+27 38.9	1.376	2.328	8.3	19.1
2 21	8 23.49	+27 45.6	1.447	2.351	12.5	19.4
3 2	8 18.02	+27 35.5	1.540	2.373	16.1	19.7

200837 2001 XQ_{242} 1 29.7 122°.58 2°.5/30.9 18

12 23	9 16.49	+10 50.3	1.743	2.512	16.9	20.4
1 2	9 11.29	+10 41.5	1.667	2.526	13.4	20.2
1 12	9 3.42	+10 46.6	1.613	2.539	9.4	20.0
1 22	8 53.58	+11 3.7	1.584	2.552	5.0	19.8
2 1	8 42.82	+11 29.7	1.583	2.565	2.5	19.6
2 11	8 32.44	+12 0.0	1.612	2.576	5.9	19.9
2 21	8 23.59	+12 30.5	1.668	2.588	10.0	20.1
3 2	8 17.16	+12 57.7	1.749	2.598	13.7	20.4

54861 2001 OJ_{25} 1 29.7 110°.14 1°.5/30.5 18

12 23	9 16.91	+13 7.5	2.216	2.974	14.0	19.5
1 2	9 10.92	+12 59.0	2.144	2.998	11.0	19.3
1 12	9 2.80	+12 59.6	2.095	3.022	7.5	19.1
1 22	8 53.19	+13 7.3	2.074	3.044	3.8	19.0
2 1	8 42.96	+13 19.6	2.083	3.066	1.6	18.8
2 11	8 33.13	+13 33.5	2.124	3.087	4.8	19.1
2 21	8 24.58	+13 46.4	2.194	3.108	8.3	19.3
3 2	8 18.01	+13 56.6	2.290	3.127	11.4	19.6

149786 2005 EG_{28} 1 29.7 250°.61 4°.6/27.1 18

12 23	9 16.87	+27 52.8	1.818	2.618	15.1	20.5
1 2	9 12.09	+28 39.0	1.728	2.608	11.9	20.3
1 12	9 4.30	+29 27.5	1.660	2.597	8.3	20.0
1 22	8 54.10	+30 11.1	1.619	2.585	5.2	19.8
2 1	8 42.62	+30 42.2	1.606	2.574	5.2	19.8
2 11	8 31.33	+30 55.6	1.621	2.562	8.3	20.0
2 21	8 21.62	+30 49.7	1.662	2.550	12.1	20.2
3 2	8 14.57	+30 26.2	1.726	2.538	15.6	20.4

76531 2000 GT_{65} 1 29.7 84°.12 5°.1/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.98	+31 30.5	2.212	3.008	12.9	19.2
1 2	9 9.16	+32 24.0	2.141	3.015	10.2	19.0
1 12	9 1.92	+33 15.8	2.094	3.023	7.4	18.8
1 22	8 52.89	+33 59.6	2.074	3.030	5.3	18.7
2 1	8 43.04	+34 29.5	2.083	3.038	5.5	18.8
2 11	8 33.53	+34 41.9	2.120	3.045	7.8	18.9
2 21	8 25.40	+34 36.3	2.184	3.052	10.5	19.1
3 2	8 19.44	+34 14.5	2.271	3.060	13.1	19.3

184193 2004 PO_{30} 1 29.7 172°.93 0°.6/30.1 17

12 23	9 9.66	+15 22.8	2.912	3.677	10.8	20.4
1 2	9 5.07	+15 22.7	2.817	3.678	8.5	20.3
1 12	8 58.85	+15 28.6	2.748	3.679	5.7	20.1
1 22	8 51.46	+15 38.8	2.707	3.680	2.7	19.9
2 1	8 43.49	+15 51.2	2.697	3.681	0.8	19.7
2 11	8 35.68	+16 3.4	2.718	3.681	3.8	20.0
2 21	8 28.68	+16 13.7	2.768	3.682	6.8	20.2
3 2	8 23.08	+16 20.5	2.846	3.682	9.4	20.3

338891 2004 CW_{5} 1 29.7 327°.53 1°.2/29.1 18

12 23	9 13.67	+21 55.2	1.925	2.721	14.5	20.3
1 2	9 9.20	+21 46.3	1.830	2.709	11.4	20.1
1 12	9 2.13	+21 40.5	1.757	2.697	7.6	19.8
1 22	8 53.07	+21 34.5	1.711	2.686	3.4	19.5
2 1	8 42.99	+21 24.8	1.693	2.676	1.8	19.4
2 11	8 33.12	+21 8.8	1.704	2.665	6.0	19.7
2 21	8 24.61	+20 45.4	1.742	2.656	10.1	19.9
3 2	8 18.38	+20 15.0	1.805	2.647	13.8	20.1

77664 2001 LT_{15} 1 29.7 196°.84 1°.6/28.4 18

12 23	9 9.77	+19 26.9	2.335	3.122	12.5	19.9
1 2	9 5.73	+20 19.6	2.245	3.121	9.7	19.7
1 12	8 59.60	+21 20.2	2.180	3.120	6.4	19.5
1 22	8 51.89	+22 24.1	2.143	3.118	2.9	19.2
2 1	8 43.35	+23 26.1	2.136	3.117	2.1	19.2
2 11	8 34.93	+24 20.9	2.159	3.115	5.4	19.4
2 21	8 27.52	+25 5.1	2.211	3.113	8.8	19.6
3 2	8 21.89	+25 36.9	2.288	3.111	11.9	19.8

445868 2012 TQ_{149} 1 29.7 139°.48 1°.1/30.2 15

12 23	9 17.99	+13 19.1	1.715	2.490	16.9	22.9
1 2	9 12.57	+13 32.6	1.638	2.503	13.3	22.7
1 12	9 4.35	+13 59.4	1.583	2.515	9.0	22.5
1 22	8 54.03	+14 36.0	1.554	2.527	4.3	22.3
2 1	8 42.71	+15 17.6	1.554	2.538	1.4	22.1
2 11	8 31.77	+15 58.6	1.583	2.548	5.9	22.4
2 21	8 22.42	+16 34.6	1.640	2.557	10.4	22.7
3 2	8 15.60	+17 2.9	1.722	2.566	14.2	22.9

429953 2012 UR_{139} 1 29.7 156°.50 0°.3/29.9 17

12 23	9 11.17	+16 33.0	2.547	3.319	12.0	21.4
1 2	9 6.47	+16 33.4	2.456	3.321	9.4	21.2
1 12	8 59.90	+16 40.1	2.390	3.324	6.3	21.0
1 22	8 51.96	+16 50.8	2.351	3.326	2.8	20.8
2 1	8 43.35	+17 3.1	2.343	3.328	0.8	20.6
2 11	8 34.94	+17 14.1	2.366	3.329	4.3	20.9
2 21	8 27.50	+17 22.0	2.417	3.331	7.6	21.1
3 2	8 21.69	+17 25.5	2.495	3.332	10.6	21.3

82651 2001 PT_{12} 1 29.7 23°.67 5°.6/25.8 18

12 23	9 10.37	+29 34.4	1.832	2.645	14.5	18.1
1 2	9 6.87	+30 50.8	1.767	2.653	11.3	18.0
1 12	9 0.67	+32 8.1	1.726	2.661	8.1	17.8
1 22	8 52.43	+33 18.3	1.710	2.670	5.8	17.7
2 1	8 43.22	+34 13.3	1.723	2.680	6.2	17.7
2 11	8 34.36	+34 47.9	1.762	2.690	8.8	17.9
2 21	8 27.03	+35 0.8	1.826	2.701	11.9	18.1
3 2	8 22.13	+34 53.6	1.912	2.713	14.7	18.3

105244 2000 PC_{26} 1 29.7 208°.25 7°.3/ 5.3 18

12 23	9 7.70	−10 11.1	3.032	3.669	12.9	20.8
1 2	9 3.59	−10 49.0	2.928	3.664	11.4	20.7
1 12	8 57.92	−11 10.0	2.844	3.658	9.8	20.5
1 22	8 51.09	−11 12.1	2.783	3.652	8.3	20.4
2 1	8 43.63	−10 54.3	2.749	3.646	7.4	20.3
2 11	8 36.21	−10 17.9	2.742	3.639	7.5	20.3
2 21	8 29.47	− 9 25.9	2.763	3.632	8.5	20.4
3 2	8 23.98	− 8 22.7	2.809	3.624	10.1	20.5

25813 Savannahshaw 1 29.7 221°.31 0°.2/29.8 18

12 23	9 10.51	+15 50.4	2.262	3.040	13.2	19.5
1 2	9 6.28	+16 5.7	2.169	3.038	10.3	19.3
1 12	8 59.96	+16 29.7	2.100	3.036	6.9	19.0
1 22	8 52.05	+16 59.5	2.058	3.033	3.1	18.8
2 1	8 43.33	+17 31.6	2.046	3.030	0.9	18.6
2 11	8 34.76	+18 2.1	2.064	3.028	4.8	18.9
2 21	8 27.25	+18 27.9	2.110	3.025	8.5	19.1
3 2	8 21.54	+18 47.0	2.181	3.022	11.7	19.3

163373 2002 PZ_{39} 1 29.7 318°.44 6°.3/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.28	+19 26.0	0.579	1.461	27.5	19.8
1 2	9 12.37	+19 25.2	0.451	1.381	23.5	19.0
1 12	9 11.76	+19 47.8	0.335	1.297	17.7	18.0
1 22	9 3.20	+20 48.8	0.229	1.209	9.5	16.7
2 1	8 35.84	+23 8.7	0.135	1.119	6.4	15.3
2 11	6 32.37	+28 28.5	0.055	1.027	42.4	14.3
2 21	0 0.14	− 0 21.7	0.062	0.935	149.8	21.1
3 2	22 38.25	−11 2.6	0.146	0.846	174.0	37.6

414188 2008 CZ_{141} 1 29.7 162°.33 9°.1/ 7.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.12	−13 12.9	2.064	2.708	18.1	21.0
1 2	9 6.19	−13 2.7	1.968	2.710	16.0	20.8
1 12	9 0.01	−12 21.9	1.889	2.712	13.6	20.6
1 22	8 52.11	−11 7.6	1.832	2.714	11.2	20.5
2 1	8 43.31	− 9 20.2	1.800	2.716	9.4	20.4
2 11	8 34.63	− 7 5.1	1.796	2.717	9.2	20.4
2 21	8 27.05	− 4 31.3	1.821	2.718	10.7	20.4
3 2	8 21.38	− 1 49.9	1.874	2.719	13.2	20.6

51066 2000 GP_{152} 1 29.7 5°.04 7°.2/ 1.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.98	+ 2 14.3	1.683	2.429	18.3	18.6
1 2	9 8.80	+ 1 4.6	1.598	2.428	15.4	18.4
1 12	9 1.95	+ 0 12.2	1.532	2.429	12.0	18.2
1 22	8 53.03	− 0 20.0	1.490	2.429	8.9	18.0
2 1	8 43.03	− 0 30.3	1.474	2.430	7.3	17.9
2 11	8 33.22	− 0 20.4	1.484	2.430	8.5	18.0
2 21	8 24.80	+ 0 5.3	1.520	2.431	11.5	18.1
3 2	8 18.73	+ 0 41.1	1.580	2.433	14.8	18.3

364369 2006 UO_{335} 1 29.7 87°.85 0°.7/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.58	+17 38.3	1.802	2.592	15.6	21.3
1 2	9 9.76	+18 4.5	1.734	2.610	12.1	21.1
1 12	9 2.37	+18 39.8	1.689	2.628	8.0	20.9
1 22	8 53.11	+19 19.8	1.670	2.646	3.5	20.7
2 1	8 43.04	+19 59.0	1.680	2.663	1.4	20.5
2 11	8 33.39	+20 32.4	1.718	2.681	5.8	20.9
2 21	8 25.27	+20 56.9	1.785	2.698	9.9	21.2
3 2	8 19.48	+21 11.3	1.875	2.715	13.4	21.4

376443 2012 HS_{44} 1 29.7 181°.89 3°.3/27.1 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.63	+26 43.0	2.600	3.385	11.5	22.0
1 2	9 8.54	+27 33.2	2.513	3.386	8.9	21.9
1 12	9 1.38	+28 25.4	2.452	3.386	6.1	21.7
1 22	8 52.66	+29 14.4	2.420	3.386	3.7	21.5
2 1	8 43.16	+29 55.2	2.418	3.385	3.7	21.5
2 11	8 33.82	+30 24.0	2.446	3.384	6.1	21.7
2 21	8 25.53	+30 39.2	2.503	3.382	8.9	21.8
3 2	8 19.02	+30 40.9	2.585	3.380	11.5	22.0

456416 2006 UD_{322} 1 29.7 64°.49 6°.4/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.91	+31 17.3	1.592	2.401	16.5	21.4
1 2	9 12.98	+32 21.6	1.537	2.418	13.0	21.2
1 12	9 4.81	+33 24.0	1.503	2.436	9.4	21.0
1 22	8 54.26	+34 15.1	1.495	2.453	6.7	20.9
2 1	8 42.71	+34 46.7	1.513	2.470	6.9	21.0
2 11	8 31.83	+34 54.4	1.558	2.488	9.7	21.2
2 21	8 23.01	+34 39.0	1.628	2.505	13.0	21.4
3 2	8 17.18	+34 4.2	1.720	2.523	16.0	21.7

451029 2008 WL_{76} 1 29.7 97°.95 1°.3/30.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.19	+12 31.3	1.578	2.362	17.7	21.8
1 2	9 10.57	+12 47.1	1.509	2.378	13.9	21.6
1 12	9 3.10	+13 18.0	1.460	2.394	9.5	21.3
1 22	8 53.51	+14 0.5	1.436	2.409	4.6	21.1
2 1	8 42.94	+14 49.4	1.441	2.424	1.6	20.9
2 11	8 32.81	+15 38.2	1.473	2.439	6.1	21.3
2 21	8 24.35	+16 21.9	1.532	2.454	10.6	21.5
3 2	8 18.48	+16 57.1	1.615	2.468	14.5	21.8

345666 2006 UJ_{9} 1 29.7 220°.82 7°.9/ 5.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.28	−10 47.2	2.855	3.494	13.6	21.3
1 2	9 3.38	−11 31.1	2.754	3.489	12.1	21.1
1 12	8 57.85	−11 57.1	2.673	3.484	10.4	21.0
1 22	8 51.09	−12 2.9	2.614	3.479	8.9	20.9
2 1	8 43.67	−11 47.1	2.581	3.474	8.0	20.8
2 11	8 36.30	−11 11.2	2.575	3.468	8.0	20.8
2 21	8 29.65	−10 18.1	2.595	3.462	9.1	20.9
3 2	8 24.33	− 9 12.7	2.641	3.456	10.7	21.0

168887 2000 WB_{83} 1 29.7 80°.17 2°.9/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.29	+10 43.8	1.567	2.346	18.0	20.1
1 2	9 10.63	+10 23.4	1.496	2.359	14.4	19.8
1 12	9 3.13	+10 17.6	1.445	2.373	10.1	19.6
1 22	8 53.52	+10 25.2	1.418	2.386	5.5	19.4
2 1	8 42.94	+10 43.4	1.419	2.399	3.0	19.3
2 11	8 32.80	+11 7.6	1.447	2.412	6.3	19.5
2 21	8 24.33	+11 33.5	1.502	2.426	10.6	19.8
3 2	8 18.44	+11 57.4	1.581	2.438	14.5	20.0

160130 2000 XU_{32} 1 29.7 99°.45 1°.6/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 22.56	+21 52.2	1.856	2.636	15.6	19.2
1 2	9 15.68	+22 3.2	1.795	2.665	12.0	19.0
1 12	9 6.12	+22 18.1	1.757	2.693	7.9	18.8
1 22	8 54.70	+22 32.1	1.746	2.721	3.6	18.6
2 1	8 42.62	+22 40.6	1.765	2.747	2.2	18.6
2 11	8 31.20	+22 40.6	1.815	2.773	6.1	18.9
2 21	8 21.57	+22 31.2	1.893	2.798	10.0	19.2
3 2	8 14.50	+22 13.4	1.996	2.822	13.3	19.4

363969 2005 US_{127} 1 29.7 119°.69 2°.7/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.43	+23 37.7	2.063	2.855	13.8	21.3
1 2	9 9.52	+24 19.4	1.988	2.866	10.7	21.2
1 12	9 2.18	+25 5.4	1.937	2.876	7.1	21.0
1 22	8 53.05	+25 50.1	1.914	2.886	3.7	20.8
2 1	8 43.09	+26 27.7	1.920	2.896	3.2	20.7
2 11	8 33.45	+26 54.0	1.955	2.905	6.4	21.0
2 21	8 25.18	+27 6.9	2.018	2.914	9.9	21.2
3 2	8 19.08	+27 6.7	2.105	2.923	12.9	21.4

242625 2005 LW_{9} 1 29.7 285°.03 2°.3/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.95	+21 3.3	2.275	3.068	12.6	20.6
1 2	9 5.24	+22 7.3	2.184	3.063	9.8	20.4
1 12	8 59.38	+23 19.2	2.118	3.058	6.5	20.2
1 22	8 51.86	+24 33.6	2.079	3.053	3.2	19.9
2 1	8 43.44	+25 44.5	2.071	3.048	2.8	19.9
2 11	8 35.10	+26 46.1	2.092	3.043	6.0	20.1
2 21	8 27.78	+27 34.7	2.142	3.038	9.4	20.3
3 2	8 22.29	+28 8.7	2.216	3.034	12.4	20.5

417079 2005 UU_{257} 1 29.7 102°.88 3°.8/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.71	+25 34.7	1.910	2.711	14.4	21.2
1 2	9 9.27	+26 29.0	1.834	2.716	11.2	21.0
1 12	9 2.19	+27 27.2	1.782	2.721	7.6	20.8
1 22	8 53.12	+28 22.4	1.757	2.726	4.4	20.6
2 1	8 43.07	+29 7.9	1.760	2.731	4.3	20.6
2 11	8 33.32	+29 38.5	1.792	2.736	7.4	20.8
2 21	8 25.04	+29 52.1	1.850	2.741	10.9	21.0
3 2	8 19.11	+29 49.6	1.932	2.746	14.1	21.2

85884 1999 CO_{28} 1 29.7 343°.40 2°.0/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.61	+20 28.7	1.494	2.308	17.1	19.0
1 2	9 7.56	+20 59.0	1.412	2.302	13.3	18.7
1 12	9 1.45	+21 38.7	1.351	2.296	8.9	18.5
1 22	8 52.92	+22 22.4	1.314	2.290	4.1	18.2
2 1	8 43.11	+23 2.9	1.304	2.285	2.7	18.1
2 11	8 33.55	+23 33.7	1.320	2.281	7.4	18.3
2 21	8 25.64	+23 51.3	1.361	2.278	12.1	18.6
3 2	8 20.48	+23 54.5	1.425	2.275	16.2	18.8

427518 2002 GX_{9} 1 29.7 194°.45 16°.6/23.4 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 40.76	+50 18.2	1.232	2.012	21.9	20.6
1 2	9 33.99	+52 6.2	1.178	2.012	19.5	20.5
1 12	9 20.56	+53 34.4	1.143	2.011	17.5	20.3
1 22	9 1.71	+54 22.1	1.126	2.009	16.6	20.3
2 1	8 40.49	+54 12.6	1.131	2.008	17.1	20.3
2 11	8 21.04	+53 2.9	1.156	2.005	19.0	20.4
2 21	8 6.46	+51 3.6	1.200	2.003	21.5	20.6
3 2	7 58.13	+48 31.7	1.261	2.000	24.0	20.7

323178 2003 HT_{1} 1 29.7 177°.29 5°.8/ 3.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.54	− 2 57.2	2.475	3.170	14.3	20.7
1 2	9 5.30	− 3 8.0	2.378	3.172	12.1	20.5
1 12	8 59.21	− 3 0.4	2.302	3.173	9.7	20.4
1 22	8 51.72	− 2 33.5	2.251	3.174	7.3	20.2
2 1	8 43.50	− 1 48.0	2.228	3.174	5.9	20.1
2 11	8 35.38	− 0 47.1	2.234	3.174	6.5	20.1
2 21	8 28.15	+ 0 24.3	2.269	3.174	8.5	20.3
3 2	8 22.48	+ 1 40.8	2.330	3.172	11.0	20.4

266696 2009 PU_{19} 1 29.7 55°.94 2°.5/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.06	+23 45.2	1.710	2.511	15.8	20.4
1 2	9 11.14	+24 1.0	1.642	2.524	12.3	20.2
1 12	9 3.39	+24 20.2	1.597	2.537	8.2	20.0
1 22	8 53.61	+24 37.4	1.577	2.551	4.0	19.8
2 1	8 42.96	+24 47.3	1.585	2.565	3.0	19.8
2 11	8 32.83	+24 46.6	1.622	2.578	6.8	20.0
2 21	8 24.43	+24 34.1	1.685	2.593	10.8	20.3
3 2	8 18.60	+24 11.0	1.772	2.607	14.3	20.5

398875 2013 CP_{66} 1 29.7 239°.20 2°.2/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.56	+ 9 23.1	1.903	2.668	15.8	21.1
1 2	9 8.43	+ 9 40.8	1.799	2.655	12.7	20.8
1 12	9 1.75	+10 15.1	1.716	2.642	9.0	20.6
1 22	8 53.02	+11 4.3	1.659	2.628	4.8	20.3
2 1	8 43.09	+12 4.5	1.631	2.613	2.3	20.1
2 11	8 33.13	+13 10.0	1.632	2.598	5.7	20.3
2 21	8 24.31	+14 14.7	1.661	2.582	10.0	20.5
3 2	8 17.64	+15 13.7	1.716	2.565	14.0	20.7

30679 2303 T-2 1 29.7 39°.59 1°.1/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.98	+17 29.5	1.150	1.974	20.6	18.5
1 2	9 9.80	+18 0.2	1.095	1.989	16.0	18.3
1 12	9 3.04	+18 45.3	1.058	2.005	10.5	18.0
1 22	8 53.59	+19 38.0	1.044	2.022	4.6	17.7
2 1	8 42.97	+20 29.7	1.055	2.039	2.0	17.6
2 11	8 33.03	+21 12.3	1.091	2.057	7.7	18.0
2 21	8 25.33	+21 41.2	1.151	2.076	13.0	18.4
3 2	8 20.90	+21 54.9	1.232	2.095	17.4	18.7

196502 2003 MA_1 1 29.7 267°.92 3°.9/31.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.73	+ 7 37.9	2.243	2.988	14.3	20.2
1 2	9 8.94	+ 7 0.3	2.126	2.966	11.7	20.0
1 12	9 1.89	+ 6 33.1	2.032	2.943	8.7	19.8
1 22	8 53.03	+ 6 17.2	1.964	2.920	5.5	19.5
2 1	8 43.10	+ 6 12.2	1.925	2.897	3.9	19.4
2 11	8 33.11	+ 6 16.5	1.916	2.873	5.9	19.5
2 21	8 24.07	+ 6 27.6	1.935	2.849	9.2	19.6
3 2	8 16.84	+ 6 42.4	1.981	2.824	12.6	19.8

46660 1996 BM_{17} 1 29.7 24°.41 3°.8/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.74	+23 57.5	1.390	2.211	17.8	18.1
1 2	9 9.35	+24 45.0	1.323	2.216	13.8	17.8
1 12	9 2.65	+25 38.9	1.278	2.223	9.3	17.6
1 22	8 53.44	+26 31.4	1.257	2.230	5.0	17.4
2 1	8 43.02	+27 13.7	1.261	2.238	4.5	17.3
2 11	8 33.09	+27 39.6	1.292	2.246	8.5	17.6
2 21	8 25.12	+27 46.6	1.348	2.255	12.9	17.9
3 2	8 20.14	+27 35.9	1.424	2.265	16.8	18.1

232430 2003 FJ_{26} 1 29.7 205°.70 3°.3/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.15	+ 7 17.2	1.830	2.589	16.5	20.7
1 2	9 8.87	+ 7 23.4	1.735	2.585	13.4	20.4
1 12	9 2.01	+ 7 47.4	1.661	2.581	9.7	20.2
1 22	8 53.11	+ 8 28.0	1.613	2.576	5.6	19.9
2 1	8 43.10	+ 9 22.1	1.592	2.571	3.3	19.8
2 11	8 33.18	+10 24.1	1.601	2.564	6.0	19.9
2 21	8 24.51	+11 27.9	1.637	2.558	10.1	20.2
3 2	8 18.05	+12 28.1	1.698	2.551	13.9	20.4

496203 2011 KJ_8 1 29.7 194°.67 2°.4/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.28	+22 20.3	2.357	3.148	12.3	20.9
1 2	9 6.16	+23 17.7	2.270	3.147	9.5	20.7
1 12	8 59.94	+24 21.0	2.207	3.146	6.3	20.5
1 22	8 52.10	+25 25.3	2.173	3.145	3.3	20.3
2 1	8 43.43	+26 24.7	2.168	3.144	2.9	20.3
2 11	8 34.88	+27 14.4	2.194	3.143	5.9	20.5
2 21	8 27.38	+27 51.3	2.247	3.141	9.1	20.7
3 2	8 21.67	+28 14.5	2.326	3.139	12.0	20.8

377499 2005 EW_{151} 1 29.7 358°.78 3°.0/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.89	+ 7 35.9	1.863	2.635	15.8	20.8
1 2	9 3.90	+ 7 46.0	1.775	2.633	12.8	20.6
1 12	8 58.62	+ 8 13.3	1.709	2.632	9.1	20.4
1 22	8 51.56	+ 8 56.7	1.667	2.632	5.3	20.1
2 1	8 43.60	+ 9 52.5	1.652	2.632	3.0	20.0
2 11	8 35.78	+10 55.4	1.666	2.632	5.5	20.2
2 21	8 29.13	+11 59.5	1.707	2.633	9.4	20.4
3 2	8 24.48	+12 59.5	1.773	2.634	13.0	20.6

341486 2007 TE_{368} 1 29.7 172°.32 4°.2/ 1.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.82	+ 3 28.7	2.567	3.295	13.1	20.8
1 2	9 4.67	+ 3 9.1	2.471	3.296	10.8	20.6
1 12	8 58.75	+ 3 3.0	2.399	3.297	8.2	20.5
1 22	8 51.52	+ 3 10.4	2.352	3.297	5.6	20.3
2 1	8 43.63	+ 3 30.5	2.334	3.298	4.2	20.2
2 11	8 35.85	+ 4 0.8	2.346	3.299	5.3	20.3
2 21	8 28.93	+ 4 37.9	2.386	3.299	7.8	20.4
3 2	8 23.51	+ 5 18.1	2.453	3.299	10.4	20.6

197590 2004 HT_{30} 1 29.7 137°.52 4°.4/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 19.10	+26 2.9	1.936	2.727	14.6	20.8
1 2	9 13.41	+27 23.1	1.868	2.743	11.4	20.6
1 12	9 4.94	+28 47.1	1.823	2.758	7.8	20.5
1 22	8 54.36	+30 6.8	1.807	2.773	4.8	20.3
2 1	8 42.77	+31 13.8	1.820	2.786	4.9	20.3
2 11	8 31.53	+32 2.2	1.863	2.798	7.9	20.5
2 21	8 21.87	+32 30.1	1.933	2.810	11.2	20.8
3 2	8 14.72	+32 38.7	2.026	2.821	14.2	21.0

521033 2015 CR_{70} 1 29.7 255°.78 0°.1/29.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.29	+16 24.4	2.621	3.395	11.7	21.8
1 2	9 5.14	+16 42.1	2.516	3.383	9.1	21.6
1 12	8 59.14	+17 7.1	2.436	3.371	6.1	21.3
1 22	8 51.73	+17 37.1	2.384	3.359	2.7	21.1
2 1	8 43.56	+18 8.8	2.362	3.346	0.8	20.9
2 11	8 35.44	+18 38.8	2.370	3.333	4.4	21.2
2 21	8 28.17	+19 4.3	2.408	3.320	7.7	21.4
3 2	8 22.44	+19 23.6	2.472	3.307	10.7	21.5

458027 2009 WR_{179} 1 29.7 201°.46 0°.7/29.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.53	+18 36.5	2.184	2.968	13.4	21.7
1 2	9 7.97	+18 55.0	2.094	2.966	10.4	21.5
1 12	9 1.16	+19 20.5	2.026	2.964	6.9	21.3
1 22	8 52.66	+19 49.5	1.986	2.962	3.1	21.1
2 1	8 43.29	+20 17.9	1.976	2.960	1.3	20.9
2 11	8 34.10	+20 41.8	1.996	2.957	5.2	21.2
2 21	8 26.06	+20 58.5	2.043	2.954	9.0	21.4
3 2	8 19.97	+21 6.8	2.116	2.951	12.3	21.6

278771 2008 SD_{155} 1 29.7 42°.02 0°.7/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.38	+17 38.4	1.998	2.789	14.2	20.4
1 2	9 6.48	+18 9.5	1.915	2.792	11.0	20.2
1 12	9 0.25	+18 49.8	1.856	2.795	7.3	20.0
1 22	8 52.27	+19 35.2	1.822	2.798	3.2	19.8
2 1	8 43.41	+20 20.7	1.818	2.801	1.4	19.6
2 11	8 34.77	+21 1.2	1.843	2.805	5.5	19.9
2 21	8 27.36	+21 33.3	1.895	2.808	9.4	20.2
3 2	8 21.99	+21 55.0	1.972	2.812	12.8	20.4

23276 2000 YT_{101} 1 29.7 65°.37 1°.5/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.38	+ 9 39.2	1.438	2.222	19.1	18.0
1 2	9 10.01	+10 28.5	1.384	2.253	15.0	17.8
1 12	9 2.72	+11 38.2	1.351	2.284	10.2	17.6
1 22	8 53.35	+13 2.8	1.342	2.315	5.0	17.4
2 1	8 43.12	+14 34.2	1.361	2.345	1.7	17.2
2 11	8 33.50	+16 3.1	1.409	2.376	6.2	17.6
2 21	8 25.71	+17 22.2	1.483	2.406	10.8	17.9
3 2	8 20.59	+18 27.0	1.581	2.436	14.7	18.2

382210 2012 PY_{22} 1 29.7 162°.62 0°.2/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.85	+18 14.4	2.481	3.256	12.2	21.4
1 2	9 7.85	+18 18.2	2.391	3.259	9.5	21.2
1 12	9 0.89	+18 27.5	2.326	3.262	6.3	21.0
1 22	8 52.48	+18 39.6	2.289	3.264	2.8	20.8
2 1	8 43.37	+18 51.6	2.282	3.266	0.9	20.6
2 11	8 34.48	+19 0.7	2.306	3.268	4.6	20.9
2 21	8 26.62	+19 5.2	2.359	3.270	7.9	21.1
3 2	8 20.49	+19 4.0	2.439	3.272	10.9	21.3

125603 2001 XX_{47} 1 29.7 149°.16 4°.6/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 19.13	+27 39.2	1.837	2.633	15.1	20.4
1 2	9 13.62	+28 34.8	1.764	2.641	11.8	20.2
1 12	9 5.17	+29 32.4	1.714	2.649	8.2	20.0
1 22	8 54.49	+30 24.2	1.691	2.656	5.1	19.8
2 1	8 42.76	+31 2.8	1.696	2.663	5.1	19.8
2 11	8 31.42	+31 23.1	1.730	2.669	8.1	20.0
2 21	8 21.78	+31 24.1	1.791	2.674	11.6	20.2
3 2	8 14.79	+31 7.9	1.874	2.679	14.8	20.4

335954 2007 TB_{107} 1 29.7 68°.68 2°.2/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.24	+23 5.9	2.178	2.971	13.1	20.5
1 2	9 7.65	+23 36.0	2.106	2.984	10.1	20.3
1 12	9 0.85	+24 9.8	2.059	2.998	6.7	20.2
1 22	8 52.47	+24 42.6	2.038	3.012	3.3	20.0
2 1	8 43.39	+25 10.0	2.048	3.026	2.7	19.9
2 11	8 34.64	+25 28.1	2.086	3.040	5.8	20.2
2 21	8 27.16	+25 35.5	2.153	3.054	9.1	20.4
3 2	8 21.65	+25 32.0	2.244	3.068	12.0	20.6

81680 2000 JS_4 1 29.7 236°.35 3°.3/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.70	+22 56.2	2.076	2.871	13.6	19.4
1 2	9 8.51	+24 10.1	1.982	2.861	10.6	19.1
1 12	9 1.80	+25 32.2	1.911	2.850	7.2	18.9
1 22	8 53.06	+26 55.9	1.868	2.839	4.0	18.7
2 1	8 43.17	+28 13.6	1.855	2.828	3.9	18.7
2 11	8 33.29	+29 18.3	1.872	2.816	7.1	18.8
2 21	8 24.57	+30 6.2	1.916	2.804	10.7	19.0
3 2	8 17.99	+30 36.0	1.984	2.792	14.0	19.2

169249 2001 SA_{102} 1 29.7 199°.14 2°.9/ 1.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.33	+ 6 4.1	2.736	3.473	12.1	21.1
1 2	9 4.22	+ 6 7.4	2.635	3.470	9.8	20.9
1 12	8 58.44	+ 6 23.1	2.558	3.467	7.2	20.8
1 22	8 51.40	+ 6 50.5	2.507	3.464	4.5	20.6
2 1	8 43.71	+ 7 27.6	2.487	3.460	2.9	20.5
2 11	8 36.09	+ 8 11.4	2.496	3.456	4.4	20.6
2 21	8 29.26	+ 8 58.4	2.536	3.452	7.2	20.7
3 2	8 23.82	+ 9 45.0	2.602	3.448	9.9	20.9

274764 2008 UT_{306} 1 29.7 131°.87 1°.9/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.16	+21 9.9	2.210	3.001	13.0	21.0
1 2	9 6.91	+21 51.8	2.127	3.004	10.1	20.8
1 12	9 0.45	+22 39.9	2.068	3.007	6.7	20.6
1 22	8 52.35	+23 29.5	2.036	3.011	3.2	20.4
2 1	8 43.42	+24 15.3	2.034	3.014	2.4	20.3
2 11	8 34.69	+24 52.9	2.061	3.016	5.7	20.5
2 21	8 27.11	+25 19.3	2.117	3.019	9.2	20.7
3 2	8 21.45	+25 33.7	2.197	3.022	12.2	20.9

32254 2000 OR_{51} 1 29.7 139°.67 1°.9/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.26	+11 41.8	2.622	3.377	12.2	18.5
1 2	9 6.47	+11 24.4	2.531	3.382	9.6	18.3
1 12	8 59.90	+11 15.1	2.463	3.386	6.7	18.1
1 22	8 52.03	+11 13.0	2.423	3.390	3.7	17.9
2 1	8 43.53	+11 16.6	2.414	3.394	1.9	17.8
2 11	8 35.22	+11 23.7	2.435	3.398	4.3	18.0
2 21	8 27.82	+11 32.2	2.486	3.401	7.3	18.2
3 2	8 21.98	+11 40.2	2.563	3.405	10.1	18.4

134195 2005 CX_{76} 1 29.7 215°.67 0°.1/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.15	+16 13.9	2.318	3.097	12.9	20.7
1 2	9 6.00	+16 37.4	2.225	3.095	10.0	20.5
1 12	8 59.81	+17 9.5	2.156	3.092	6.7	20.3
1 22	8 52.06	+17 47.3	2.114	3.090	3.0	20.1
2 1	8 43.51	+18 26.8	2.102	3.087	0.9	19.9
2 11	8 35.10	+19 3.9	2.120	3.084	4.8	20.2
2 21	8 27.69	+19 35.3	2.167	3.081	8.4	20.4
3 2	8 22.04	+19 59.0	2.239	3.077	11.6	20.6

343615 2010 GE_{125} 1 29.7 170°.56 5°.5/ 3.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.25	− 3 18.8	2.672	3.364	13.4	21.9
1 2	9 3.42	− 3 24.0	2.575	3.366	11.4	21.8
1 12	8 57.92	− 3 11.7	2.499	3.367	9.1	21.6
1 22	8 51.17	− 2 41.2	2.448	3.368	6.9	21.5
2 1	8 43.79	− 1 53.3	2.425	3.369	5.6	21.4
2 11	8 36.50	− 0 51.2	2.431	3.370	6.0	21.4
2 21	8 30.00	+ 0 20.7	2.466	3.371	7.9	21.6
3 2	8 24.90	+ 1 37.3	2.527	3.371	10.2	21.7

340750 2006 SG_{270} 1 29.7 246°.73 4°.3/ 1.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.02	+ 3 5.2	2.421	3.153	13.7	21.0
1 2	9 4.22	+ 2 52.3	2.324	3.150	11.3	20.8
1 12	8 58.55	+ 2 54.3	2.248	3.147	8.6	20.6
1 22	8 51.49	+ 3 11.4	2.198	3.144	5.9	20.5
2 1	8 43.69	+ 3 42.3	2.176	3.141	4.3	20.4
2 11	8 35.99	+ 4 24.2	2.183	3.137	5.5	20.4
2 21	8 29.17	+ 5 13.0	2.219	3.134	8.1	20.6
3 2	8 23.90	+ 6 4.2	2.280	3.131	10.9	20.8

258116 2001 QV_{253} 1 29.7 145°.68 0°.6/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.54	+11 43.8	2.094	2.863	14.4	20.7
1 2	9 7.25	+12 37.2	2.009	2.871	11.3	20.5
1 12	9 0.73	+13 45.4	1.946	2.878	7.6	20.3
1 22	8 52.50	+15 4.5	1.911	2.884	3.6	20.0
2 1	8 43.40	+16 28.7	1.906	2.890	1.0	19.9
2 11	8 34.45	+17 51.4	1.932	2.896	5.1	20.2
2 21	8 26.63	+19 6.8	1.987	2.902	9.0	20.4
3 2	8 20.74	+20 11.2	2.067	2.906	12.4	20.6

21133 1993 FE_{11} 1 29.7 91°.62 2°.0/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.66	+21 4.9	1.982	2.776	14.2	19.1
1 2	9 8.25	+21 46.7	1.908	2.787	11.0	18.9
1 12	9 1.42	+22 35.2	1.857	2.797	7.2	18.7
1 22	8 52.80	+23 25.0	1.832	2.807	3.4	18.5
2 1	8 43.33	+24 10.3	1.837	2.817	2.6	18.4
2 11	8 34.16	+24 46.3	1.871	2.827	6.1	18.7
2 21	8 26.34	+25 10.1	1.933	2.837	9.8	18.9
3 2	8 20.67	+25 21.3	2.019	2.847	13.0	19.2

293775 2007 RX_{111} 1 29.7 136°.01 2°.6/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.57	+ 8 40.5	1.873	2.634	16.1	21.3
1 2	9 8.98	+ 8 52.8	1.791	2.645	12.9	21.1
1 12	9 1.94	+ 9 21.4	1.732	2.655	9.1	20.9
1 22	8 53.05	+10 4.1	1.698	2.664	5.0	20.7
2 1	8 43.25	+10 57.1	1.692	2.673	2.6	20.6
2 11	8 33.70	+11 54.8	1.716	2.681	5.5	20.8
2 21	8 25.47	+12 51.8	1.768	2.689	9.5	21.0
3 2	8 19.41	+13 43.6	1.846	2.696	13.1	21.2

142627 2002 TZ_{169} 1 29.7 1°.00 0°.3/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.99	+20 24.7	1.478	2.281	17.8	19.4
1 2	9 13.17	+19 52.8	1.398	2.279	14.0	19.1
1 12	9 5.10	+19 24.8	1.338	2.279	9.4	18.8
1 22	8 54.54	+18 58.0	1.303	2.279	4.2	18.5
2 1	8 42.80	+18 29.4	1.295	2.279	1.3	18.3
2 11	8 31.52	+17 57.0	1.315	2.280	6.7	18.7
2 21	8 22.14	+17 20.6	1.361	2.282	11.7	19.0
3 2	8 15.72	+16 40.8	1.430	2.284	16.0	19.2

393909 2005 UQ_{10} 1 29.7 142°.29 4°.2/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.80	+25 4.9	1.742	2.539	15.8	21.3
1 2	9 13.49	+26 14.0	1.671	2.550	12.3	21.1
1 12	9 5.17	+27 28.2	1.623	2.561	8.3	20.9
1 22	8 54.54	+28 39.3	1.602	2.571	4.9	20.7
2 1	8 42.80	+29 38.7	1.610	2.580	4.8	20.7
2 11	8 31.43	+30 20.0	1.646	2.589	8.1	20.9
2 21	8 21.79	+30 41.1	1.709	2.596	11.9	21.2
3 2	8 14.86	+30 43.3	1.794	2.603	15.2	21.4

16790 Yuuzou 1 29.7 278°.25 0°.5/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.98	+15 28.2	1.936	2.720	14.9	18.0
1 2	9 7.86	+15 33.9	1.842	2.713	11.7	17.8
1 12	9 1.29	+15 49.5	1.770	2.706	7.9	17.6
1 22	8 52.81	+16 12.2	1.725	2.699	3.7	17.3
2 1	8 43.32	+16 38.4	1.708	2.693	1.1	17.1
2 11	8 33.97	+17 3.7	1.720	2.686	5.5	17.4
2 21	8 25.85	+17 24.9	1.760	2.679	9.7	17.6
3 2	8 19.86	+17 39.6	1.824	2.672	13.4	17.8

209588 2004 XL_{120} 1 29.7 317°.99 1°.0/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.14	+14 43.8	1.409	2.215	18.4	20.8
1 2	9 8.20	+14 42.4	1.318	2.201	14.6	20.5
1 12	9 2.08	+14 54.7	1.247	2.188	10.0	20.2
1 22	8 53.35	+15 18.3	1.199	2.174	4.8	19.9
2 1	8 43.13	+15 48.6	1.177	2.162	1.5	19.6
2 11	8 32.99	+16 19.8	1.182	2.150	6.9	19.9
2 21	8 24.48	+16 46.7	1.211	2.138	12.2	20.2
3 2	8 18.82	+17 5.8	1.261	2.127	16.9	20.4

29301 1993 TQ_{31} 1 29.7 210°.09 0°.3/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.67	+14 45.4	2.339	3.109	13.1	20.4
1 2	9 7.99	+15 13.1	2.239	3.102	10.3	20.2
1 12	9 1.18	+15 51.0	2.162	3.094	6.9	19.9
1 22	8 52.72	+16 36.0	2.112	3.087	3.1	19.7
2 1	8 43.36	+17 24.0	2.093	3.078	0.9	19.5
2 11	8 34.06	+18 10.6	2.105	3.069	4.8	19.8
2 21	8 25.75	+18 51.9	2.146	3.059	8.5	20.0
3 2	8 19.22	+19 25.4	2.214	3.048	11.8	20.2

109895 2001 SC_{18} 1 29.7 59°.83 0°.1/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.07	+15 26.6	1.612	2.406	16.9	20.2
1 2	9 8.85	+15 57.6	1.551	2.428	13.1	20.0
1 12	9 1.92	+16 41.1	1.512	2.451	8.7	19.8
1 22	8 53.03	+17 32.1	1.498	2.473	3.8	19.6
2 1	8 43.31	+18 24.6	1.511	2.496	1.2	19.5
2 11	8 34.08	+19 12.2	1.553	2.518	6.0	19.8
2 21	8 26.49	+19 50.8	1.622	2.541	10.3	20.1
3 2	8 21.36	+20 18.3	1.715	2.564	14.0	20.4

88466 2001 QO_{107} 1 29.7 47°.88 11°.2/ 7.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.15	−13 20.9	1.843	2.502	19.6	19.1
1 2	9 4.92	−14 7.3	1.763	2.509	17.5	18.9
1 12	8 59.33	−14 24.4	1.700	2.516	15.2	18.8
1 22	8 51.93	−14 7.9	1.655	2.523	13.0	18.7
2 1	8 43.61	−13 16.1	1.633	2.531	11.5	18.6
2 11	8 35.48	−11 52.0	1.636	2.538	11.2	18.6
2 21	8 28.57	−10 3.1	1.663	2.546	12.4	18.7
3 2	8 23.73	− 7 59.3	1.714	2.554	14.4	18.8

238026 2002 VA_{38} 1 29.7 49°.95 9°.6/21.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.42	+43 3.3	2.056	2.845	14.0	19.5
1 2	9 11.93	+44 52.5	2.004	2.854	11.9	19.4
1 12	9 4.28	+46 32.3	1.976	2.863	10.2	19.3
1 22	8 54.20	+47 52.5	1.973	2.872	9.6	19.3
2 1	8 42.93	+48 45.2	1.996	2.882	10.3	19.4
2 11	8 32.04	+49 6.6	2.043	2.892	11.9	19.5
2 21	8 22.98	+48 58.0	2.113	2.902	13.8	19.6
3 2	8 16.76	+48 24.1	2.202	2.912	15.7	19.8

160123 2000 UQ_{75} 1 29.7 97°.61 0°.2/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.21	+14 56.6	1.755	2.536	16.3	20.8
1 2	9 11.07	+15 40.9	1.691	2.561	12.6	20.6
1 12	9 3.30	+16 37.8	1.650	2.586	8.4	20.4
1 22	8 53.64	+17 42.0	1.635	2.610	3.7	20.2
2 1	8 43.14	+18 46.8	1.650	2.634	1.2	20.1
2 11	8 33.11	+19 45.9	1.694	2.657	5.8	20.4
2 21	8 24.65	+20 34.8	1.766	2.680	10.0	20.7
3 2	8 18.60	+21 11.4	1.863	2.701	13.5	21.0

101906 1999 RX_{1} 1 29.7 140°.74 0°.7/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.25	+18 1.6	2.053	2.832	14.3	20.1
1 2	9 10.87	+18 26.8	1.975	2.844	11.1	19.9
1 12	9 3.10	+18 59.9	1.919	2.856	7.4	19.7
1 22	8 53.55	+19 36.8	1.891	2.866	3.2	19.5
2 1	8 43.16	+20 12.6	1.893	2.877	1.4	19.4
2 11	8 33.09	+20 43.1	1.925	2.886	5.4	19.7
2 21	8 24.35	+21 5.4	1.986	2.895	9.3	19.9
3 2	8 17.76	+21 18.2	2.072	2.903	12.6	20.1

142518 2002 TP_{40} 1 29.7 112°.41 6°.2/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 21.13	+34 16.4	2.140	2.925	13.6	21.3
1 2	9 14.77	+35 28.5	2.085	2.949	10.8	21.1
1 12	9 5.71	+36 36.3	2.054	2.972	8.2	21.0
1 22	8 54.68	+37 31.8	2.050	2.994	6.4	20.9
2 1	8 42.84	+38 8.3	2.075	3.016	6.7	21.0
2 11	8 31.53	+38 22.5	2.129	3.037	8.7	21.1
2 21	8 21.90	+38 14.9	2.209	3.057	11.2	21.3
3 2	8 14.80	+37 49.0	2.313	3.076	13.6	21.5

377401 2004 SN_{22} 1 29.7 181.°88 4.°4/ 2.6 17 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.25	− 0 10.0	2.994	3.690	12.0	22.7
1 2	9 5.54	− 0 14.3	2.892	3.691	10.1	22.6
1 12	8 59.24	− 0 4.5	2.812	3.692	7.8	22.4
1 22	8 51.77	+ 0 19.6	2.759	3.692	5.7	22.3
2 1	8 43.69	+ 0 57.1	2.736	3.691	4.4	22.2
2 11	8 35.69	+ 1 45.2	2.743	3.689	5.1	22.3
2 21	8 28.41	+ 2 40.5	2.781	3.686	7.1	22.4
3 2	8 22.43	+ 3 39.0	2.846	3.683	9.4	22.5

301995 2000 QW_{85} 1 29.7 158.°40 0.°4/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.87	+17 44.3	2.110	2.883	14.2	21.5
1 2	9 12.08	+18 0.6	2.026	2.892	11.0	21.3
1 12	9 3.89	+18 24.3	1.965	2.900	7.3	21.1
1 22	8 53.90	+18 51.8	1.932	2.907	3.2	20.9
2 1	8 43.06	+19 18.9	1.930	2.914	1.2	20.7
2 11	8 32.49	+19 41.5	1.958	2.919	5.3	21.0
2 21	8 23.25	+19 57.3	2.015	2.924	9.2	21.3
3 2	8 16.14	+20 4.9	2.097	2.928	12.5	21.5

15292 1991 VD_{2} 1 29.7 60.°25 0.°7/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.82	+17 35.4	2.056	2.845	14.0	17.7
1 2	9 6.61	+18 6.4	1.988	2.863	10.8	17.6
1 12	9 0.21	+18 45.7	1.943	2.882	7.1	17.4
1 22	8 52.24	+19 29.2	1.925	2.901	3.1	17.1
2 1	8 43.57	+20 12.0	1.936	2.920	1.3	17.0
2 11	8 35.24	+20 49.7	1.977	2.939	5.2	17.4
2 21	8 28.17	+21 19.3	2.045	2.958	8.9	17.6
3 2	8 23.06	+21 39.1	2.139	2.977	12.0	17.8

34094 2000 PV_{11} 1 29.7 217.°63 1.°5/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.48	+18 8.1	2.212	2.996	13.3	19.3
1 2	9 7.29	+19 10.6	2.117	2.990	10.3	19.1
1 12	9 0.85	+20 23.5	2.045	2.984	6.8	18.8
1 22	8 52.63	+21 42.0	2.001	2.977	3.1	18.6
2 1	8 43.42	+22 59.7	1.988	2.969	2.1	18.5
2 11	8 34.25	+24 10.3	2.005	2.962	5.7	18.7
2 21	8 26.12	+25 9.3	2.051	2.954	9.4	18.9
3 2	8 19.88	+25 54.3	2.122	2.945	12.7	19.1

459117 2012 BK_{127} 1 29.7 115.°39 3.°7/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.77	+14 21.1	1.183	1.989	21.1	20.6
1 2	9 13.99	+17 7.0	1.116	2.003	16.3	20.3
1 12	9 6.31	+20 23.1	1.071	2.015	10.7	20.0
1 22	8 55.36	+23 53.9	1.052	2.027	5.1	19.8
2 1	8 42.58	+27 17.5	1.062	2.039	5.0	19.8
2 11	8 30.02	+30 13.3	1.101	2.050	10.3	20.1
2 21	8 19.66	+32 29.8	1.165	2.060	15.6	20.5
3 2	8 12.93	+34 5.4	1.251	2.070	19.9	20.8

193252 2000 SZ_{77} 1 29.7 52.°31 0.°9/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.42	+18 0.6	1.377	2.186	18.6	20.3
1 2	9 10.50	+18 23.4	1.312	2.198	14.4	20.1
1 12	9 3.36	+18 57.7	1.267	2.210	9.6	19.9
1 22	8 53.80	+19 38.0	1.246	2.222	4.2	19.6
2 1	8 43.13	+20 17.5	1.251	2.235	1.8	19.5
2 11	8 32.96	+20 49.8	1.283	2.248	7.0	19.8
2 21	8 24.74	+21 11.0	1.341	2.261	11.9	20.1
3 2	8 19.44	+21 20.0	1.420	2.274	16.1	20.4

319615 2006 SW_{277} 1 29.7 52.°84 4.°2/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.37	+24 59.2	1.433	2.247	17.7	20.5
1 2	9 11.85	+25 52.4	1.383	2.271	13.7	20.3
1 12	9 4.10	+26 49.7	1.354	2.296	9.2	20.1
1 22	8 54.05	+27 42.5	1.349	2.321	5.1	19.9
2 1	8 43.08	+28 22.5	1.372	2.346	4.7	19.9
2 11	8 32.85	+28 44.5	1.421	2.371	8.3	20.2
2 21	8 24.69	+28 47.6	1.495	2.397	12.3	20.5
3 2	8 19.50	+28 33.7	1.592	2.422	15.8	20.8

6876 Beppeforti 1 29.7 118.°67 4.°0/31.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.46	+ 6 51.8	1.677	2.437	17.8	17.9
1 2	9 10.67	+ 6 38.3	1.602	2.451	14.4	17.7
1 12	9 3.17	+ 6 42.5	1.546	2.464	10.4	17.5
1 22	8 53.66	+ 7 3.7	1.516	2.476	6.3	17.3
2 1	8 43.18	+ 7 39.3	1.512	2.488	4.0	17.1
2 11	8 33.04	+ 8 24.1	1.538	2.500	6.4	17.3
2 21	8 24.43	+ 9 12.7	1.590	2.511	10.3	17.6
3 2	8 18.24	+ 9 59.8	1.667	2.522	14.0	17.8

63479 2001 OL_{40} 1 29.7 31.°89 0.°5/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.75	+14 58.9	1.587	2.387	16.9	18.4
1 2	9 6.59	+15 52.3	1.511	2.393	13.2	18.2
1 12	9 0.67	+17 1.4	1.457	2.399	8.7	17.9
1 22	8 52.62	+18 20.7	1.429	2.405	3.8	17.6
2 1	8 43.48	+19 42.3	1.428	2.412	1.5	17.5
2 11	8 34.60	+20 58.1	1.455	2.419	6.4	17.8
2 21	8 27.23	+22 1.9	1.508	2.426	11.0	18.1
3 2	8 22.32	+22 50.2	1.584	2.434	14.9	18.4

216832 2006 VQ_{131} 1 29.7 110.°35 3.°7/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.15	+24 9.8	2.010	2.804	14.1	20.0
1 2	9 10.23	+25 30.4	1.944	2.822	10.8	19.8
1 12	9 2.79	+26 56.2	1.902	2.840	7.3	19.6
1 22	8 53.46	+28 19.6	1.889	2.857	4.2	19.4
2 1	8 43.25	+29 33.0	1.905	2.874	4.2	19.5
2 11	8 33.35	+30 30.5	1.950	2.891	7.2	19.7
2 21	8 24.86	+31 9.3	2.023	2.907	10.5	19.9
3 2	8 18.63	+31 29.9	2.120	2.922	13.4	20.1

375597 2008 VJ_{61} 1 29.7 98.°16 2.°5/31.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.80	+ 8 35.2	2.221	2.978	14.0	21.5
1 2	9 5.70	+ 8 39.7	2.136	2.987	11.2	21.3
1 12	8 59.60	+ 8 57.6	2.075	2.995	8.0	21.1
1 22	8 52.01	+ 9 27.4	2.039	3.004	4.5	20.9
2 1	8 43.70	+10 6.2	2.033	3.012	2.5	20.8
2 11	8 35.59	+10 50.2	2.056	3.020	4.8	21.0
2 21	8 28.53	+11 35.2	2.108	3.029	8.2	21.2
3 2	8 23.22	+12 17.4	2.186	3.037	11.3	21.4

239429 2007 TK_{148} 1 29.7 36.°15 8.°4/23.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.85	+40 56.3	2.114	2.903	13.6	19.8
1 2	9 11.97	+42 12.5	2.052	2.907	11.4	19.7
1 12	9 4.15	+43 20.7	2.012	2.912	9.4	19.6
1 22	8 54.12	+44 12.2	1.998	2.916	8.4	19.5
2 1	8 43.07	+44 40.0	2.011	2.921	8.9	19.5
2 11	8 32.45	+44 40.8	2.050	2.926	10.6	19.7
2 21	8 23.55	+44 15.9	2.112	2.931	12.8	19.8
3 2	8 17.32	+43 29.2	2.196	2.937	14.9	20.0

330935 2009 SQ_{229} 1 29.7 120.°48 1.°3/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.15	+20 21.9	1.959	2.750	14.5	20.9
1 2	9 9.47	+20 40.0	1.877	2.754	11.2	20.7
1 12	9 2.30	+21 4.3	1.818	2.758	7.5	20.4
1 22	8 53.26	+21 30.6	1.786	2.761	3.4	20.2
2 1	8 43.32	+21 54.0	1.783	2.765	1.9	20.1
2 11	8 33.67	+22 10.7	1.809	2.769	5.8	20.4
2 21	8 25.39	+22 18.3	1.862	2.772	9.8	20.6
3 2	8 19.31	+22 16.3	1.940	2.775	13.2	20.8

499064 2009 DM_{129} 1 29.7 316.°50 3.°6/ 1.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.04	+ 5 21.9	2.296	3.044	13.9	21.7
1 2	9 3.63	+ 5 18.3	2.197	3.037	11.3	21.5
1 12	8 58.29	+ 5 29.5	2.119	3.030	8.4	21.3
1 22	8 51.47	+ 5 55.3	2.067	3.023	5.4	21.1
2 1	8 43.85	+ 6 33.7	2.043	3.016	3.6	21.0
2 11	8 36.31	+ 7 21.3	2.049	3.009	5.2	21.1
2 21	8 29.67	+ 8 13.6	2.082	3.003	8.3	21.3
3 2	8 24.66	+ 9 6.3	2.142	2.997	11.4	21.4

427364 2014 WY_{448} 1 29.7 348.°79 0.°7/30.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.69	+16 51.1	1.530	2.334	17.2	20.4
1 2	9 8.26	+16 31.2	1.445	2.327	13.6	20.1
1 12	9 1.87	+16 19.8	1.381	2.321	9.2	19.8
1 22	8 53.19	+16 14.9	1.341	2.316	4.3	19.5
2 1	8 43.33	+16 13.3	1.327	2.312	1.3	19.3
2 11	8 33.73	+16 11.4	1.341	2.308	6.3	19.6
2 21	8 25.73	+16 6.7	1.380	2.305	11.2	19.9
3 2	8 20.36	+15 57.6	1.441	2.304	15.4	20.2

118690 2000 OO_{20} 1 29.7 71.°38 5.°8/ 2.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.93	+ 2 40.7	1.865	2.602	17.0	18.9
1 2	9 9.07	+ 1 57.9	1.798	2.625	14.0	18.8
1 12	9 1.87	+ 1 33.0	1.751	2.649	10.7	18.6
1 22	8 53.01	+ 1 26.9	1.729	2.672	7.5	18.5
2 1	8 43.44	+ 1 38.8	1.735	2.696	5.8	18.4
2 11	8 34.27	+ 2 5.6	1.768	2.719	6.9	18.5
2 21	8 26.48	+ 2 42.4	1.829	2.742	9.7	18.7
3 2	8 20.80	+ 3 24.0	1.914	2.765	12.7	19.0

158186 2001 RL_{76} 1 29.7 100.°66 3.°7/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.29	+23 29.4	1.602	2.404	16.7	19.7
1 2	9 13.16	+24 33.6	1.541	2.423	12.9	19.5
1 12	9 4.97	+25 44.0	1.503	2.443	8.6	19.3
1 22	8 54.49	+26 52.3	1.490	2.462	4.7	19.1
2 1	8 43.00	+27 49.8	1.505	2.480	4.3	19.1
2 11	8 32.04	+28 30.3	1.549	2.498	7.9	19.4
2 21	8 22.96	+28 51.6	1.619	2.516	11.9	19.7
3 2	8 16.69	+28 54.9	1.712	2.532	15.3	19.9

448227 2008 VL_{20} 1 29.7 72.°35 4.°5/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.42	+24 26.2	1.406	2.221	18.0	21.0
1 2	9 12.18	+25 37.4	1.348	2.237	13.9	20.8
1 12	9 4.55	+26 55.2	1.310	2.252	9.4	20.6
1 22	8 54.37	+28 9.7	1.298	2.268	5.4	20.4
2 1	8 43.03	+29 11.0	1.312	2.284	5.2	20.4
2 11	8 32.27	+29 52.0	1.353	2.300	8.9	20.7
2 21	8 23.58	+30 10.5	1.418	2.316	13.1	20.9
3 2	8 17.98	+30 8.3	1.505	2.332	16.8	21.2

166826 2002 VV_{100} 1 29.7 25°.67 2°.7/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.78	+10 32.8	2.029	2.798	14.8	19.5
1 2	9 6.67	+10 10.2	1.944	2.802	11.8	19.3
1 12	9 0.35	+ 9 58.8	1.882	2.806	8.4	19.1
1 22	8 52.39	+ 9 58.0	1.845	2.811	4.7	18.9
2 1	8 43.63	+10 6.0	1.837	2.816	2.7	18.8
2 11	8 35.11	+10 19.9	1.858	2.822	5.3	18.9
2 21	8 27.77	+10 36.6	1.906	2.828	8.9	19.2
3 2	8 22.36	+10 53.1	1.980	2.834	12.2	19.4

323824 2005 SA_{38} 1 29.7 101°.92 3°.4/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.86	+25 55.2	2.024	2.816	14.0	21.2
1 2	9 11.44	+26 38.0	1.958	2.834	10.9	21.0
1 12	9 3.50	+27 22.8	1.916	2.852	7.4	20.8
1 22	8 53.76	+28 3.5	1.901	2.870	4.2	20.7
2 1	8 43.24	+28 34.3	1.916	2.888	3.9	20.7
2 11	8 33.16	+28 51.4	1.960	2.905	6.8	20.9
2 21	8 24.60	+28 53.8	2.031	2.922	10.1	21.1
3 2	8 18.32	+28 42.4	2.127	2.938	13.1	21.3

162997 2001 SP_{111} 1 29.7 43°.87 12°.0/ 9.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.27	−18 27.0	2.236	2.838	17.8	19.2
1 2	9 4.64	−19 47.6	2.163	2.850	16.3	19.1
1 12	8 58.97	−20 42.7	2.107	2.863	14.7	19.0
1 22	8 51.77	−21 7.8	2.069	2.876	13.3	18.9
2 1	8 43.82	−21 0.3	2.052	2.889	12.3	18.9
2 11	8 36.03	−20 21.1	2.058	2.903	12.0	18.9
2 21	8 29.29	−19 14.7	2.087	2.917	12.5	19.0
3 2	8 24.32	−17 48.1	2.138	2.931	13.6	19.1

56925 2000 RG_{21} 1 29.7 210°.07 1°.4/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.42	+21 44.5	2.256	3.036	13.1	19.5
1 2	9 10.98	+21 52.6	2.160	3.031	10.2	19.3
1 12	9 3.21	+22 4.5	2.089	3.026	6.8	19.1
1 22	8 53.68	+22 16.4	2.045	3.020	3.1	18.9
2 1	8 43.25	+22 24.6	2.032	3.014	1.9	18.8
2 11	8 33.02	+22 26.0	2.049	3.007	5.4	19.0
2 21	8 23.99	+22 19.2	2.095	3.000	9.1	19.2
3 2	8 16.99	+22 4.1	2.166	2.993	12.3	19.4

171976 2001 TP_{128} 1 29.7 116°.41 3°.7/ 1.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.12	+ 4 45.3	2.630	3.360	12.7	20.7
1 2	9 5.58	+ 4 26.4	2.545	3.372	10.4	20.5
1 12	8 59.34	+ 4 19.9	2.483	3.384	7.8	20.4
1 22	8 51.87	+ 4 25.6	2.447	3.396	5.2	20.2
2 1	8 43.81	+ 4 42.4	2.440	3.407	3.7	20.1
2 11	8 35.94	+ 5 7.8	2.464	3.419	4.9	20.2
2 21	8 28.96	+ 5 38.7	2.516	3.429	7.4	20.4
3 2	8 23.46	+ 6 11.8	2.596	3.440	10.0	20.6

250613 2005 FU_5 1 29.7 243°.81 2°.2/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.21	+22 51.0	1.797	2.592	15.4	21.0
1 2	9 12.27	+23 6.0	1.706	2.585	12.1	20.8
1 12	9 4.43	+23 25.5	1.638	2.577	8.1	20.5
1 22	8 54.33	+23 44.5	1.595	2.570	3.9	20.2
2 1	8 43.06	+23 57.7	1.581	2.562	2.7	20.1
2 11	8 32.01	+24 0.7	1.596	2.554	6.8	20.4
2 21	8 22.49	+23 51.9	1.638	2.545	11.0	20.6
3 2	8 15.52	+23 31.9	1.704	2.537	14.8	20.8

449587 2014 JR_{37} 1 29.7 104°.24 0°.2/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.81	+15 10.0	1.617	2.406	17.2	21.7
1 2	9 11.11	+15 48.1	1.549	2.423	13.4	21.4
1 12	9 3.56	+16 39.9	1.502	2.440	8.9	21.2
1 22	8 53.89	+17 39.9	1.480	2.456	3.9	21.0
2 1	8 43.23	+18 41.5	1.487	2.472	1.2	20.8
2 11	8 32.99	+19 37.7	1.523	2.487	6.2	21.2
2 21	8 24.42	+20 23.8	1.586	2.502	10.7	21.5
3 2	8 18.42	+20 57.3	1.672	2.517	14.5	21.7

398712 2012 XQ_{57} 1 29.7 345°.22 5°.7/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.82	+25 56.9	1.245	2.074	19.0	20.6
1 2	9 10.93	+27 9.6	1.174	2.070	14.9	20.4
1 12	9 4.24	+28 30.1	1.123	2.067	10.3	20.1
1 22	8 54.46	+29 47.7	1.095	2.064	6.4	19.9
2 1	8 43.03	+30 50.2	1.092	2.062	6.5	19.9
2 11	8 31.94	+31 28.6	1.113	2.060	10.5	20.1
2 21	8 23.04	+31 40.0	1.158	2.059	15.2	20.3
3 2	8 17.63	+31 26.6	1.222	2.058	19.3	20.6

433400 2013 TW_{22} 1 29.7 83°.00 0°.6/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.96	+14 7.0	2.073	2.852	14.2	21.9
1 2	9 6.78	+14 25.6	1.994	2.862	11.1	21.7
1 12	9 0.41	+14 54.9	1.938	2.872	7.5	21.5
1 22	8 52.43	+15 32.0	1.908	2.882	3.5	21.2
2 1	8 43.67	+16 12.7	1.908	2.892	1.0	21.1
2 11	8 35.17	+16 52.5	1.937	2.902	4.9	21.4
2 21	8 27.85	+17 27.8	1.994	2.912	8.7	21.6
3 2	8 22.46	+17 56.0	2.076	2.922	12.0	21.8

457559 2008 YX_{96} 1 29.7 78°.33 1°.9/28.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.88	+18 14.8	1.504	2.305	17.7	21.4
1 2	9 11.33	+19 17.6	1.446	2.329	13.6	21.2
1 12	9 3.76	+20 32.3	1.410	2.352	8.9	21.0
1 22	8 53.98	+21 51.1	1.400	2.375	4.0	20.8
2 1	8 43.23	+23 5.3	1.417	2.399	2.6	20.7
2 11	8 33.02	+24 7.1	1.462	2.421	7.1	21.1
2 21	8 24.65	+24 52.4	1.534	2.444	11.5	21.4
3 2	8 19.05	+25 20.3	1.629	2.466	15.2	21.7

511523 2014 QS_{439} 1 29.7 303°.23 12°.7/21.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.67	+25 38.3	0.786	1.651	23.7	21.0
1 2	9 11.12	+28 36.9	0.684	1.602	19.4	20.5
1 12	9 7.44	+32 28.4	0.600	1.551	14.9	20.0
1 22	8 57.62	+37 2.3	0.536	1.500	12.8	19.6
2 1	8 41.52	+41 47.3	0.492	1.447	16.4	19.4
2 11	8 21.17	+45 59.5	0.467	1.394	24.1	19.5
2 21	8 0.75	+49 5.3	0.457	1.342	32.7	19.6
3 2	7 45.44	+50 56.8	0.455	1.290	40.8	19.7

488465 1998 HK_1 1 29.7 300°.31 7°.4/ 1.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.20	+ 3 19.1	1.454	2.214	20.0	23.2
1 2	9 11.21	+ 2 32.7	1.320	2.164	17.2	22.9
1 12	9 4.77	+ 2 4.9	1.205	2.114	13.5	22.5
1 22	8 55.03	+ 2 0.5	1.112	2.062	9.7	22.1
2 1	8 42.72	+ 2 22.8	1.042	2.010	7.4	21.8
2 11	8 29.34	+ 3 10.9	0.999	1.956	9.8	21.8
2 21	8 16.76	+ 4 19.7	0.979	1.902	15.0	21.9
3 2	8 6.83	+ 5 40.6	0.981	1.847	20.6	22.0

400250 2007 PY_{36} 1 29.7 204°.03 2°.3/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.69	+ 9 35.6	2.114	2.868	14.7	22.4
1 2	9 9.79	+ 9 42.5	2.013	2.863	11.8	22.2
1 12	9 2.54	+10 3.2	1.935	2.857	8.4	22.0
1 22	8 53.45	+10 36.0	1.883	2.850	4.6	21.7
2 1	8 43.36	+11 17.9	1.861	2.842	2.3	21.6
2 11	8 33.32	+12 4.6	1.869	2.833	5.3	21.8
2 21	8 24.39	+12 51.4	1.907	2.824	9.1	22.0
3 2	8 17.42	+13 34.5	1.970	2.814	12.7	22.2

375342 2008 SU_{27} 1 29.7 148°.44 1°.0/29.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.12	+19 14.9	2.238	3.023	13.1	21.6
1 2	9 7.62	+19 41.3	2.153	3.026	10.2	21.4
1 12	9 0.96	+20 14.4	2.092	3.030	6.7	21.2
1 22	8 52.68	+20 50.4	2.058	3.033	3.0	21.0
2 1	8 43.61	+21 24.9	2.053	3.036	1.6	20.9
2 11	8 34.74	+21 53.8	2.079	3.039	5.2	21.1
2 21	8 27.01	+22 14.5	2.133	3.042	8.8	21.4
3 2	8 21.16	+22 25.8	2.213	3.044	11.9	21.6

296989 2010 EE_{125} 1 29.7 223°.91 2°.0/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.00	+20 30.7	1.827	2.618	15.3	21.3
1 2	9 11.35	+21 9.5	1.733	2.610	12.0	21.1
1 12	9 3.88	+21 56.9	1.662	2.602	8.0	20.8
1 22	8 54.14	+22 47.6	1.617	2.592	3.7	20.6
2 1	8 43.15	+23 34.9	1.602	2.583	2.6	20.5
2 11	8 32.27	+24 12.7	1.615	2.572	6.7	20.7
2 21	8 22.78	+24 37.6	1.655	2.561	11.0	20.9
3 2	8 15.75	+24 48.6	1.720	2.550	14.9	21.1

287525 2003 CP_{16} 1 29.7 0°.83 0°.4/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.14	+16 43.7	1.508	2.316	17.3	20.6
1 2	9 7.11	+17 5.8	1.429	2.315	13.5	20.4
1 12	9 1.16	+17 40.3	1.371	2.314	9.0	20.1
1 22	8 52.93	+18 22.9	1.337	2.314	4.0	19.8
2 1	8 43.53	+19 7.7	1.330	2.314	1.4	19.6
2 11	8 34.40	+19 48.1	1.350	2.316	6.5	20.0
2 21	8 26.86	+20 19.5	1.395	2.317	11.3	20.2
3 2	8 21.92	+20 39.4	1.462	2.320	15.5	20.5

29341 1995 BC_1 1 29.7 26°.41 2°.4/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 21.36	+25 23.0	1.456	2.261	17.9	18.0
1 2	9 15.79	+24 58.9	1.385	2.268	14.0	17.8
1 12	9 6.82	+24 34.3	1.335	2.275	9.4	17.5
1 22	8 55.36	+24 4.6	1.309	2.284	4.5	17.3
2 1	8 42.86	+23 26.0	1.311	2.292	2.9	17.2
2 11	8 31.08	+22 37.2	1.341	2.302	7.3	17.5
2 21	8 21.47	+21 40.0	1.397	2.312	12.0	17.8
3 2	8 15.00	+20 37.4	1.476	2.322	16.0	18.0

11494 Hibiki 1 29.7 25°.88 6°.2/27.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.66	+28 31.8	1.216	2.047	19.2	17.0
1 2	9 11.39	+29 28.0	1.160	2.056	15.1	16.7
1 12	9 4.32	+30 25.8	1.123	2.066	10.6	16.5
1 22	8 54.37	+31 14.7	1.110	2.077	6.9	16.3
2 1	8 43.14	+31 44.6	1.121	2.089	6.8	16.4
2 11	8 32.64	+31 49.9	1.157	2.102	10.4	16.6
2 21	8 24.53	+31 30.8	1.215	2.116	14.6	16.9
3 2	8 19.88	+30 51.3	1.293	2.131	18.4	17.1

371962 2008 FQ_{83} 1 29.7 201.°85 5.°2/25.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.44	+33 0.5	2.541	3.324	11.8	22.5
1 2	9 11.82	+33 59.7	2.454	3.319	9.4	22.4
1 12	9 3.81	+34 57.3	2.392	3.313	7.0	22.2
1 22	8 53.99	+35 46.7	2.358	3.307	5.3	22.1
2 1	8 43.23	+36 22.1	2.354	3.300	5.6	22.1
2 11	8 32.63	+36 39.8	2.379	3.292	7.6	22.2
2 21	8 23.22	+36 38.9	2.431	3.284	10.2	22.4
3 2	8 15.86	+36 21.0	2.508	3.275	12.6	22.5

249658 1999 VL_{13} 1 29.7 85.°89 16.°3/ 5.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.29	−11 26.0	1.255	1.953	25.6	19.5
1 2	9 13.13	−13 54.1	1.192	1.962	23.1	19.3
1 12	9 5.44	−15 51.1	1.145	1.972	20.4	19.2
1 22	8 54.94	−17 6.3	1.114	1.982	18.0	19.1
2 1	8 42.94	−17 32.1	1.103	1.992	16.5	19.0
2 11	8 31.23	−17 8.1	1.113	2.001	16.5	19.0
2 21	8 21.49	−16 1.9	1.142	2.011	17.9	19.1
3 2	8 14.96	−14 26.3	1.191	2.020	20.1	19.3

341566 2007 UJ_{46} 1 29.7 214.°63 5.°7/ 3.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.73	− 1 37.4	2.590	3.291	13.6	20.8
1 2	9 4.69	− 2 6.7	2.489	3.287	11.5	20.7
1 12	8 58.89	− 2 20.3	2.410	3.283	9.2	20.5
1 22	8 51.75	− 2 17.0	2.356	3.279	7.0	20.4
2 1	8 43.90	− 1 56.9	2.330	3.275	5.8	20.3
2 11	8 36.12	− 1 22.0	2.332	3.270	6.3	20.3
2 21	8 29.15	− 0 36.0	2.363	3.266	8.3	20.4
3 2	8 23.64	+ 0 16.7	2.419	3.261	10.7	20.6

197082 2003 UR_{177} 1 29.7 150.°27 0.°3/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.10	+15 24.4	2.182	2.961	13.6	20.9
1 2	9 6.87	+15 38.9	2.094	2.962	10.6	20.7
1 12	9 0.49	+16 2.6	2.029	2.963	7.1	20.5
1 22	8 52.50	+16 32.6	1.990	2.965	3.3	20.3
2 1	8 43.69	+17 5.3	1.982	2.966	0.9	20.1
2 11	8 35.06	+17 36.7	2.003	2.967	4.9	20.4
2 21	8 27.54	+18 3.5	2.052	2.968	8.6	20.6
3 2	8 21.88	+18 23.7	2.126	2.969	11.9	20.8

377020 2002 RT_{98} 1 29.7 75.°50 0.°7/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.25	+15 34.0	2.182	2.954	13.8	21.0
1 2	9 9.03	+15 31.1	2.114	2.979	10.7	20.9
1 12	9 1.72	+15 36.0	2.070	3.003	7.2	20.7
1 22	8 52.95	+15 46.2	2.053	3.027	3.3	20.5
2 1	8 43.60	+15 58.7	2.066	3.051	1.0	20.4
2 11	8 34.65	+16 10.6	2.110	3.074	4.7	20.7
2 21	8 26.96	+16 19.7	2.182	3.098	8.2	20.9
3 2	8 21.18	+16 24.6	2.279	3.121	11.3	21.2

345540 2006 QY_{99} 1 29.7 185.°27 1.°5/28.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.47	+23 15.2	3.113	3.885	10.1	21.7
1 2	9 8.03	+23 28.3	3.019	3.885	7.8	21.5
1 12	9 0.92	+23 43.3	2.950	3.884	5.2	21.3
1 22	8 52.60	+23 57.2	2.910	3.883	2.5	21.1
2 1	8 43.69	+24 7.2	2.902	3.881	1.8	21.1
2 11	8 34.95	+24 11.2	2.926	3.879	4.3	21.3
2 21	8 27.05	+24 8.0	2.980	3.876	7.0	21.4
3 2	8 20.60	+23 57.5	3.061	3.873	9.5	21.6

317452 2002 QT_{140} 1 29.7 60.°19 1.°6/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 23.04	+23 25.3	1.532	2.328	17.6	20.7
1 2	9 16.73	+23 3.3	1.468	2.346	13.7	20.5
1 12	9 7.23	+22 43.1	1.425	2.364	9.1	20.2
1 22	8 55.48	+22 20.3	1.407	2.382	4.2	20.0
2 1	8 42.88	+21 51.6	1.418	2.401	2.2	19.9
2 11	8 31.08	+21 15.4	1.458	2.420	6.7	20.2
2 21	8 21.41	+20 32.5	1.525	2.439	11.2	20.5
3 2	8 14.73	+19 44.8	1.616	2.458	15.1	20.8

106895 2000 YX_{41} 1 29.7 108.°45 0.°1/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.90	+15 34.1	1.800	2.581	15.9	19.9
1 2	9 10.89	+16 3.8	1.730	2.600	12.4	19.7
1 12	9 3.27	+16 44.9	1.682	2.618	8.2	19.5
1 22	8 53.75	+17 32.8	1.661	2.636	3.7	19.3
2 1	8 43.36	+18 22.0	1.668	2.653	1.1	19.1
2 11	8 33.37	+19 6.9	1.706	2.669	5.7	19.4
2 21	8 24.89	+19 43.6	1.771	2.685	9.9	19.7
3 2	8 18.76	+20 10.0	1.860	2.701	13.4	20.0

321012 2008 KC_{40} 1 29.7 207.°26 2.°7/31.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.10	+ 7 31.0	2.468	3.212	13.1	21.8
1 2	9 6.66	+ 7 38.2	2.365	3.206	10.6	21.6
1 12	9 0.27	+ 7 58.6	2.285	3.200	7.6	21.4
1 22	8 52.41	+ 8 31.0	2.232	3.193	4.5	21.2
2 1	8 43.73	+ 9 13.1	2.208	3.186	2.7	21.0
2 11	8 35.12	+10 1.3	2.216	3.178	4.7	21.1
2 21	8 27.38	+10 51.4	2.252	3.169	7.9	21.3
3 2	8 21.25	+11 39.7	2.316	3.160	11.0	21.5

273888 2007 HH_{26} 1 29.7 238.°40 1.°6/30.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.78	+11 21.2	2.326	3.088	13.3	21.9
1 2	9 6.59	+11 31.6	2.222	3.078	10.6	21.6
1 12	9 0.33	+11 53.4	2.141	3.067	7.4	21.4
1 22	8 52.46	+12 25.1	2.086	3.056	3.8	21.2
2 1	8 43.72	+13 3.6	2.062	3.044	1.7	21.0
2 11	8 35.01	+13 45.0	2.067	3.032	4.7	21.2
2 21	8 27.24	+14 25.5	2.102	3.020	8.3	21.4
3 2	8 21.18	+15 1.9	2.162	3.008	11.6	21.6

144798 2004 HX_{50} 1 29.7 351.°71 20.°4/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.70	−23 1.1	1.482	2.100	25.0	19.3
1 2	9 5.60	−25 52.8	1.412	2.093	23.8	19.2
1 12	9 0.47	−28 12.6	1.356	2.087	22.6	19.0
1 22	8 52.80	−29 49.6	1.313	2.082	21.4	18.9
2 1	8 43.59	−30 34.5	1.286	2.078	20.6	18.9
2 11	8 34.33	−30 23.9	1.274	2.075	20.4	18.8
2 21	8 26.53	−29 21.4	1.278	2.074	20.7	18.8
3 2	8 21.45	−27 36.1	1.297	2.074	21.6	18.9

99370 2001 XJ_{247} 1 29.7 294.°23 2.°4/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.31	+12 40.4	1.490	2.281	18.3	19.6
1 2	9 10.48	+12 18.9	1.400	2.272	14.6	19.3
1 12	9 3.53	+12 10.6	1.330	2.263	10.3	19.0
1 22	8 54.08	+12 14.3	1.284	2.255	5.4	18.7
2 1	8 43.25	+12 27.2	1.264	2.246	2.5	18.5
2 11	8 32.55	+12 45.0	1.271	2.238	6.7	18.8
2 21	8 23.46	+13 3.6	1.304	2.229	11.7	19.0
3 2	8 17.11	+13 19.3	1.359	2.221	16.1	19.3

140300 2001 SW_{311} 1 29.7 334.°31 4.°9/ 2.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.66	+ 2 37.9	2.297	3.029	14.3	19.8
1 2	9 4.86	+ 2 11.5	2.202	3.027	11.9	19.6
1 12	8 59.11	+ 2 0.2	2.129	3.026	9.1	19.5
1 22	8 51.90	+ 2 4.7	2.081	3.024	6.4	19.3
2 1	8 43.92	+ 2 24.4	2.061	3.023	4.9	19.2
2 11	8 36.05	+ 2 56.5	2.069	3.021	6.0	19.2
2 21	8 29.12	+ 3 37.3	2.106	3.020	8.6	19.4
3 2	8 23.83	+ 4 22.3	2.168	3.019	11.4	19.6

325120 2008 EB_{68} 1 29.7 290.°16 1.°2/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.34	+13 47.5	1.754	2.540	16.1	21.4
1 2	9 8.47	+13 47.7	1.661	2.532	12.8	21.2
1 12	9 1.93	+13 59.8	1.589	2.524	8.8	20.9
1 22	8 53.28	+14 21.7	1.543	2.516	4.3	20.6
2 1	8 43.50	+14 49.8	1.524	2.508	1.5	20.4
2 11	8 33.84	+15 19.2	1.534	2.501	5.8	20.7
2 21	8 25.52	+15 46.1	1.571	2.493	10.3	20.9
3 2	8 19.52	+16 7.2	1.631	2.486	14.3	21.1

424758 2008 TB_{50} 1 29.7 154.°86 0.°7/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.03	+14 4.1	2.297	3.069	13.2	22.1
1 2	9 6.70	+14 20.5	2.209	3.072	10.4	21.9
1 12	9 0.33	+14 46.7	2.144	3.076	7.0	21.7
1 22	8 52.43	+15 20.1	2.106	3.079	3.3	21.5
2 1	8 43.77	+15 57.2	2.097	3.081	1.0	21.3
2 11	8 35.28	+16 33.9	2.119	3.084	4.6	21.6
2 21	8 27.83	+17 6.9	2.170	3.086	8.2	21.8
3 2	8 22.14	+17 33.8	2.246	3.088	11.4	22.0

140685 2001 UA_{55} 1 29.7 145.°96 3.°1/ 1.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.31	+ 5 42.3	2.557	3.297	12.8	20.5
1 2	9 4.36	+ 5 44.7	2.465	3.301	10.4	20.3
1 12	8 58.66	+ 6 0.5	2.395	3.304	7.6	20.1
1 22	8 51.66	+ 6 28.8	2.351	3.307	4.8	20.0
2 1	8 44.00	+ 7 7.7	2.337	3.311	3.1	19.9
2 11	8 36.47	+ 7 53.8	2.353	3.313	4.6	20.0
2 21	8 29.80	+ 8 43.2	2.398	3.316	7.5	20.1
3 2	8 24.61	+ 9 32.2	2.470	3.319	10.2	20.3

336739 2010 EU_{104} 1 29.7 301.°50 3.°4/31.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.22	+ 7 39.4	2.222	2.975	14.1	20.1
1 2	9 6.15	+ 7 17.6	2.126	2.971	11.5	19.9
1 12	9 0.01	+ 7 8.0	2.053	2.968	8.4	19.7
1 22	8 52.31	+ 7 10.7	2.006	2.965	5.2	19.5
2 1	8 43.80	+ 7 24.2	1.987	2.962	3.4	19.4
2 11	8 35.42	+ 7 46.0	1.998	2.959	5.3	19.5
2 21	8 28.04	+ 8 12.5	2.036	2.956	8.5	19.7
3 2	8 22.41	+ 8 40.3	2.101	2.953	11.7	19.9

261470 2005 VQ_{109} 1 29.7 131.°06 2.°4/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.99	+22 29.7	2.062	2.854	13.8	21.6
1 2	9 9.30	+23 12.7	1.984	2.862	10.7	21.4
1 12	9 2.20	+24 1.1	1.930	2.869	7.1	21.2
1 22	8 53.30	+24 49.5	1.903	2.876	3.6	21.0
2 1	8 43.53	+25 32.2	1.905	2.883	2.9	21.0
2 11	8 34.02	+26 4.4	1.936	2.889	6.2	21.2
2 21	8 25.83	+26 23.8	1.996	2.895	9.8	21.4
3 2	8 19.77	+26 30.0	2.079	2.901	12.9	21.7

163421 2002 RD_{56} 1 29.7 138°.12 2°.3/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.69	+24 52.5	2.559	3.340	11.7	20.7
1 2	9 9.31	+25 13.6	2.478	3.349	9.1	20.5
1 12	9 1.93	+25 36.2	2.422	3.358	6.1	20.3
1 22	8 53.10	+25 56.4	2.395	3.366	3.2	20.1
2 1	8 43.61	+26 10.4	2.398	3.374	2.7	20.1
2 11	8 34.40	+26 15.6	2.431	3.382	5.3	20.3
2 21	8 26.31	+26 10.8	2.494	3.389	8.3	20.5
3 2	8 20.01	+25 56.6	2.583	3.396	11.0	20.7

378414 2007 RX_{129} 1 29.7 95°.14 0°.1/29.7 18

12 23	9 16.40	+15 36.3	1.721	2.505	16.5	21.6
1 2	9 11.34	+16 2.9	1.656	2.527	12.8	21.4
1 12	9 3.59	+16 41.0	1.613	2.549	8.5	21.2
1 22	8 53.91	+17 26.0	1.595	2.570	3.8	20.9
2 1	8 43.38	+18 12.2	1.606	2.591	1.1	20.8
2 11	8 33.32	+18 54.0	1.647	2.611	5.8	21.1
2 21	8 24.86	+19 27.7	1.715	2.631	10.1	21.4
3 2	8 18.85	+19 51.2	1.807	2.650	13.7	21.7

497992 2007 DT_{66} 1 29.7 235°.86 4°.7/26.5 17

12 23	9 18.33	+32 9.8	2.529	3.310	11.9	22.8
1 2	9 12.55	+32 51.4	2.430	3.295	9.5	22.6
1 12	9 4.36	+33 31.2	2.355	3.279	6.9	22.5
1 22	8 54.30	+34 3.6	2.308	3.263	5.0	22.3
2 1	8 43.24	+34 22.9	2.291	3.245	5.1	22.3
2 11	8 32.30	+34 25.6	2.304	3.228	7.3	22.4
2 21	8 22.55	+34 11.1	2.345	3.209	10.0	22.5
3 2	8 14.85	+33 41.2	2.411	3.191	12.7	22.7

272276 2005 RZ_{8} 1 29.7 173°.39 2°.6/31.4 18

12 23	9 15.38	+ 8 23.8	1.872	2.630	16.3	21.3
1 2	9 10.56	+ 8 38.5	1.783	2.634	13.1	21.1
1 12	9 3.17	+ 9 10.1	1.715	2.637	9.3	20.9
1 22	8 53.80	+ 9 56.6	1.673	2.639	5.2	20.7
2 1	8 43.39	+10 54.2	1.660	2.640	2.6	20.5
2 11	8 33.13	+11 57.0	1.676	2.641	5.7	20.7
2 21	8 24.17	+12 59.2	1.721	2.641	9.8	20.9
3 2	8 17.43	+13 56.0	1.791	2.640	13.5	21.2

356665 2011 UJ_{77} 1 29.7 219°.75 1°.2/30.4 18

12 23	9 15.49	+13 55.5	1.812	2.590	16.0	21.7
1 2	9 10.84	+13 55.7	1.718	2.584	12.7	21.5
1 12	9 3.48	+14 7.3	1.645	2.577	8.7	21.2
1 22	8 53.98	+14 28.1	1.598	2.571	4.2	20.9
2 1	8 43.33	+14 54.4	1.579	2.563	1.4	20.7
2 11	8 32.80	+15 21.6	1.590	2.556	5.8	21.0
2 21	8 23.63	+15 45.9	1.628	2.547	10.3	21.2
3 2	8 16.80	+16 4.6	1.691	2.539	14.2	21.5

459712 2013 PD_{37} 1 29.7 215°.21 0°.9/30.4 16

12 23	9 13.51	+13 45.8	2.425	3.187	12.8	22.6
1 2	9 8.61	+13 54.1	2.320	3.178	10.2	22.4
1 12	9 1.63	+14 11.5	2.240	3.169	6.9	22.2
1 22	8 53.06	+14 36.0	2.187	3.159	3.4	21.9
2 1	8 43.61	+15 4.6	2.165	3.149	1.1	21.7
2 11	8 34.23	+15 33.7	2.174	3.138	4.6	22.0
2 21	8 25.80	+16 0.4	2.212	3.126	8.2	22.2
3 2	8 19.10	+16 22.3	2.276	3.114	11.4	22.4

241420 2008 UH_{230} 1 29.8 70°.61 1°.4/28.9 18

12 23	9 14.27	+17 0.0	1.459	2.262	18.0	20.1
1 2	9 10.24	+17 57.9	1.398	2.281	13.9	19.9
1 12	9 3.17	+19 9.5	1.357	2.299	9.1	19.7
1 22	8 53.82	+20 27.8	1.342	2.318	4.0	19.4
2 1	8 43.42	+21 43.9	1.354	2.337	2.2	19.4
2 11	8 33.52	+22 49.6	1.394	2.356	7.0	19.7
2 21	8 25.43	+23 39.9	1.460	2.375	11.6	20.0
3 2	8 20.11	+24 13.1	1.549	2.393	15.5	20.3

14276 2000 CF_{2} 1 29.8 90°.49 4°.6/27.5 18

12 23	9 20.64	+26 3.3	1.457	2.264	17.8	16.8
1 2	9 15.31	+27 0.0	1.400	2.284	13.8	16.6
1 12	9 6.57	+28 0.1	1.365	2.304	9.4	16.4
1 22	8 55.32	+28 54.5	1.355	2.324	5.5	16.2
2 1	8 43.00	+29 34.3	1.371	2.343	5.2	16.3
2 11	8 31.39	+29 54.1	1.416	2.362	8.8	16.5
2 21	8 21.95	+29 53.1	1.485	2.380	12.8	16.8
3 2	8 15.67	+29 34.1	1.576	2.398	16.4	17.1

358596 2007 UW_{94} 1 29.8 245°.94 0°.5/29.5 17

12 23	9 14.91	+17 30.1	1.832	2.619	15.5	21.9
1 2	9 10.50	+17 49.9	1.733	2.607	12.2	21.6
1 12	9 3.34	+18 19.7	1.657	2.594	8.2	21.3
1 22	8 53.97	+18 55.6	1.606	2.581	3.6	21.0
2 1	8 43.35	+19 32.5	1.584	2.568	1.3	20.8
2 11	8 32.79	+20 5.1	1.591	2.554	6.1	21.1
2 21	8 23.54	+20 29.5	1.625	2.540	10.6	21.4
3 2	8 16.65	+20 43.9	1.684	2.525	14.6	21.6

503130 2015 FL_{377} 1 29.8 25°.84 2°.8/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.20	+ 9 49.3	2.171	2.932	14.2	20.9
1 2	9 6.91	+ 9 25.8	2.081	2.933	11.4	20.7
1 12	9 0.51	+ 9 13.4	2.014	2.935	8.1	20.5
1 22	8 52.55	+ 9 11.3	1.973	2.937	4.7	20.3
2 1	8 43.80	+ 9 18.2	1.961	2.939	2.9	20.2
2 11	8 35.23	+ 9 31.5	1.978	2.941	5.1	20.4
2 21	8 27.75	+ 9 48.0	2.024	2.943	8.5	20.6
3 2	8 22.10	+10 5.1	2.094	2.946	11.7	20.8

491995 2013 EY_{97} 1 29.8 218°.29 1°.2/29.1 17

12 23	9 15.66	+19 12.6	2.028	2.811	14.3	22.9
1 2	9 10.78	+19 40.8	1.931	2.803	11.2	22.7
1 12	9 3.35	+20 17.0	1.857	2.795	7.5	22.4
1 22	8 53.92	+20 57.0	1.810	2.785	3.4	22.1
2 1	8 43.38	+21 35.5	1.793	2.776	1.8	22.0
2 11	8 32.94	+22 7.6	1.805	2.765	5.9	22.3
2 21	8 23.74	+22 30.1	1.846	2.754	10.0	22.5
3 2	8 16.71	+22 41.6	1.912	2.742	13.6	22.7

169026 2001 DY_{104} 1 29.8 21°.18 0°.5/29.5 18

12 23	9 12.16	+17 26.8	1.299	2.115	19.1	19.9
1 2	9 9.05	+17 39.4	1.231	2.120	14.9	19.6
1 12	9 2.62	+18 4.3	1.182	2.126	9.9	19.3
1 22	8 53.66	+18 36.8	1.157	2.133	4.4	19.0
2 1	8 43.48	+19 10.5	1.157	2.141	1.5	18.9
2 11	8 33.75	+19 38.9	1.183	2.149	7.1	19.2
2 21	8 25.96	+19 57.8	1.233	2.159	12.2	19.6
3 2	8 21.15	+20 5.6	1.305	2.168	16.6	19.8

288759 2004 RD_{81} 1 29.8 131°.38 1°.8/28.3 18

12 23	9 10.71	+23 51.3	2.965	3.746	10.3	20.8
1 2	9 6.01	+24 13.0	2.882	3.753	7.9	20.6
1 12	8 59.64	+24 36.8	2.823	3.760	5.3	20.5
1 22	8 52.08	+24 59.3	2.794	3.766	2.7	20.3
2 1	8 43.96	+25 17.4	2.795	3.773	2.2	20.3
2 11	8 36.04	+25 28.8	2.827	3.779	4.6	20.4
2 21	8 29.00	+25 32.0	2.888	3.785	7.2	20.6
3 2	8 23.41	+25 27.0	2.976	3.791	9.6	20.8

432453 2010 CN_{93} 1 29.8 264°.52 0°.4/30.0 17

12 23	9 9.09	+14 13.9	2.297	3.073	13.1	21.4
1 2	9 5.33	+14 42.9	2.199	3.066	10.3	21.2
1 12	8 59.52	+15 22.7	2.126	3.060	6.9	21.0
1 22	8 52.14	+16 10.4	2.079	3.053	3.2	20.7
2 1	8 43.92	+17 1.9	2.061	3.046	0.9	20.5
2 11	8 35.77	+17 52.5	2.074	3.039	4.7	20.8
2 21	8 28.58	+18 38.4	2.116	3.032	8.4	21.0
3 2	8 23.11	+19 16.5	2.183	3.025	11.7	21.2

170131 2003 AC_{26} 1 29.8 19°.55 1°.2/30.4 18

12 23	9 11.81	+14 55.0	2.005	2.785	14.5	19.9
1 2	9 7.55	+14 37.4	1.921	2.789	11.4	19.6
1 12	9 1.01	+14 28.0	1.861	2.794	7.8	19.4
1 22	8 52.78	+14 25.3	1.826	2.799	3.8	19.2
2 1	8 43.75	+14 26.8	1.820	2.804	1.4	19.0
2 11	8 34.99	+14 29.9	1.843	2.809	5.1	19.3
2 21	8 27.48	+14 32.0	1.895	2.815	8.9	19.5
3 2	8 21.97	+14 31.6	1.970	2.822	12.4	19.8

194711 2001 XE_{240} 1 29.8 21°.98 2°.5/28.6 18

12 23	9 11.05	+19 57.1	1.131	1.963	20.3	19.0
1 2	9 8.66	+20 39.9	1.071	1.970	15.7	18.8
1 12	9 2.60	+21 35.5	1.030	1.978	10.4	18.5
1 22	8 53.72	+22 35.9	1.011	1.988	4.8	18.2
2 1	8 43.48	+23 31.3	1.016	1.998	3.3	18.2
2 11	8 33.80	+24 13.0	1.046	2.009	8.5	18.5
2 21	8 26.33	+24 36.8	1.099	2.022	13.7	18.8
3 2	8 22.19	+24 42.1	1.172	2.035	18.2	19.1

376553 2013 NS_{22} 1 29.8 172°.65 5°.1/ 1.6 18

12 23	9 13.36	+ 3 41.7	2.145	2.877	15.2	20.9
1 2	9 8.62	+ 3 0.7	2.053	2.878	12.6	20.7
1 12	9 1.69	+ 2 33.9	1.982	2.880	9.6	20.5
1 22	8 53.10	+ 2 22.6	1.937	2.881	6.7	20.3
2 1	8 43.66	+ 2 26.7	1.919	2.882	5.1	20.2
2 11	8 34.37	+ 2 43.8	1.931	2.882	6.4	20.3
2 21	8 26.16	+ 3 10.6	1.971	2.882	9.2	20.5
3 2	8 19.83	+ 3 42.7	2.036	2.882	12.2	20.7

370740 2004 RR_{146} 1 29.8 164°.35 3°.1/27.8 18

12 23	9 15.88	+26 7.3	2.313	3.100	12.7	21.6
1 2	9 10.56	+26 40.7	2.231	3.104	9.9	21.4
1 12	9 2.95	+27 15.8	2.172	3.107	6.7	21.3
1 22	8 53.64	+27 47.6	2.142	3.111	3.8	21.1
2 1	8 43.52	+28 11.0	2.141	3.113	3.5	21.1
2 11	8 33.65	+28 22.7	2.170	3.116	6.2	21.2
2 21	8 25.03	+28 21.5	2.228	3.118	9.4	21.4
3 2	8 18.43	+28 8.0	2.310	3.119	12.2	21.6

375654 2009 BW_{97} 1 29.8 35°.59 0°.2/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.69	+15 13.4	1.786	2.580	15.6	20.8
1 2	9 6.16	+15 37.4	1.716	2.593	12.1	20.6
1 12	9 0.19	+16 12.9	1.668	2.607	8.1	20.4
1 22	8 52.44	+16 56.0	1.646	2.621	3.6	20.1
2 1	8 43.88	+17 41.8	1.652	2.636	1.0	19.9
2 11	8 35.64	+18 24.9	1.686	2.652	5.5	20.3
2 21	8 28.79	+19 1.1	1.747	2.667	9.6	20.6
3 2	8 24.09	+19 28.0	1.832	2.684	13.1	20.8

205881 2002 EK_{144} 1 29.8 275°.28 0°.5/30.0 18

12 23	9 12.66	+14 27.7	1.640	2.431	16.8	21.3
1 2	9 9.07	+14 46.9	1.542	2.417	13.3	21.0
1 12	9 2.58	+15 20.4	1.465	2.403	9.1	20.7
1 22	8 53.71	+16 5.0	1.413	2.388	4.2	20.4
2 1	8 43.47	+16 55.4	1.389	2.374	1.2	20.2
2 11	8 33.23	+17 45.2	1.393	2.359	6.3	20.5
2 21	8 24.36	+18 28.9	1.423	2.344	11.3	20.7
3 2	8 18.01	+19 2.6	1.476	2.329	15.6	20.9

276178 2002 PQ_{109} 1 29.8 133°.38 4°.0/ 1.8 18

12 23	9 9.83	+ 3 34.9	2.473	3.202	13.5	21.4
1 2	9 5.57	+ 3 24.5	2.385	3.210	11.1	21.2
1 12	8 59.49	+ 3 28.5	2.318	3.218	8.3	21.0
1 22	8 52.07	+ 3 46.6	2.278	3.225	5.6	20.9
2 1	8 44.00	+ 4 17.5	2.266	3.233	4.0	20.8
2 11	8 36.08	+ 4 58.1	2.284	3.240	5.2	20.9
2 21	8 29.08	+ 5 44.3	2.331	3.246	7.8	21.0
3 2	8 23.63	+ 6 32.3	2.405	3.253	10.5	21.2

379120 2009 AD_{15} 1 29.8 56°.33 0°.2/29.7 18

12 23	9 11.56	+16 31.5	2.005	2.791	14.4	21.3
1 2	9 7.25	+16 53.0	1.939	2.812	11.1	21.1
1 12	9 0.73	+17 23.3	1.897	2.834	7.4	20.9
1 22	8 52.63	+17 58.8	1.881	2.856	3.2	20.7
2 1	8 43.86	+18 35.0	1.894	2.878	1.0	20.5
2 11	8 35.46	+19 7.6	1.936	2.900	5.1	20.9
2 21	8 28.36	+19 33.6	2.006	2.922	8.8	21.1
3 2	8 23.26	+19 51.4	2.101	2.945	12.0	21.4

323429 2004 FK_{103} 1 29.8 290°.46 1°.0/30.3 17

12 23	9 11.42	+13 33.9	1.732	2.519	16.2	21.8
1 2	9 7.89	+13 45.1	1.635	2.507	12.9	21.5
1 12	9 1.66	+14 9.8	1.559	2.494	8.8	21.2
1 22	8 53.26	+14 45.5	1.509	2.482	4.3	20.9
2 1	8 43.64	+15 27.8	1.485	2.470	1.3	20.7
2 11	8 34.06	+16 11.3	1.491	2.457	5.9	21.0
2 21	8 25.78	+16 50.9	1.523	2.445	10.6	21.2
3 2	8 19.83	+17 23.0	1.578	2.433	14.7	21.4

329024 2011 AF_{14} 1 29.8 171°.75 1°.6/28.6 18

12 23	9 13.61	+20 45.9	2.362	3.143	12.6	21.9
1 2	9 8.74	+21 21.9	2.275	3.146	9.8	21.7
1 12	9 1.74	+22 3.6	2.212	3.149	6.5	21.5
1 22	8 53.13	+22 46.9	2.177	3.151	3.0	21.3
2 1	8 43.72	+23 26.9	2.172	3.153	2.1	21.2
2 11	8 34.48	+23 59.7	2.198	3.154	5.3	21.4
2 21	8 26.33	+24 22.6	2.253	3.154	8.7	21.7
3 2	8 20.03	+24 34.8	2.333	3.155	11.7	21.8

358123 2006 PD_{36} 1 29.8 184°.91 0°.4/29.5 18

12 23	9 14.09	+16 18.9	2.103	2.880	14.1	21.8
1 2	9 9.39	+16 55.3	2.012	2.880	11.0	21.6
1 12	9 2.33	+17 42.0	1.944	2.880	7.3	21.4
1 22	8 53.45	+18 35.1	1.904	2.879	3.2	21.1
2 1	8 43.62	+19 29.3	1.893	2.877	1.2	21.0
2 11	8 33.92	+20 19.4	1.913	2.875	5.4	21.2
2 21	8 25.38	+21 1.3	1.962	2.873	9.3	21.5
3 2	8 18.87	+21 32.8	2.036	2.869	12.7	21.7

364011 2005 UZ_{509} 1 29.8 115°.18 2°.9/27.7 18

12 23	9 17.87	+25 55.9	2.499	3.277	12.1	22.1
1 2	9 11.74	+26 37.2	2.434	3.303	9.3	21.9
1 12	9 3.52	+27 19.6	2.394	3.327	6.3	21.8
1 22	8 53.84	+27 58.2	2.383	3.351	3.6	21.7
2 1	8 43.55	+28 28.2	2.403	3.374	3.3	21.7
2 11	8 33.65	+28 46.6	2.454	3.397	5.8	21.9
2 21	8 24.99	+28 52.5	2.534	3.418	8.6	22.1
3 2	8 18.26	+28 46.6	2.639	3.439	11.2	22.3

280266 2002 YH_{3} 1 29.8 88°.16 1°.9/31.3 18

12 23	9 8.84	+ 9 1.1	2.344	3.102	13.4	20.7
1 2	9 4.93	+ 9 26.6	2.262	3.114	10.6	20.5
1 12	8 59.13	+10 5.5	2.203	3.126	7.4	20.3
1 22	8 51.94	+10 55.7	2.171	3.138	4.0	20.1
2 1	8 44.09	+11 53.3	2.169	3.150	1.9	20.0
2 11	8 36.42	+12 54.0	2.197	3.162	4.4	20.2
2 21	8 29.74	+13 53.1	2.253	3.174	7.8	20.4
3 2	8 24.68	+14 46.9	2.337	3.185	10.8	20.6

98068 2000 RV_{52} 1 29.8 103°.63 0°.4/30.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.11	+14 10.6	1.775	2.553	16.2	20.1
1 2	9 11.08	+14 39.4	1.707	2.575	12.7	19.9
1 12	9 3.45	+15 20.9	1.661	2.595	8.5	19.7
1 22	8 53.92	+16 10.6	1.641	2.615	3.9	19.4
2 1	8 43.53	+17 3.2	1.650	2.635	1.0	19.2
2 11	8 33.56	+17 52.7	1.689	2.654	5.6	19.6
2 21	8 25.12	+18 34.8	1.755	2.672	9.8	19.9
3 2	8 19.03	+19 7.1	1.846	2.690	13.4	20.2

59652 1999 JM_{92} 1 29.8 193°.59 1°.2/28.9 18

12 23	9 11.50	+17 32.8	2.077	2.863	13.9	19.6
1 2	9 7.47	+18 28.9	1.987	2.862	10.8	19.4
1 12	9 1.11	+19 35.9	1.922	2.861	7.2	19.1
1 22	8 52.94	+20 48.8	1.884	2.859	3.2	18.9
2 1	8 43.80	+22 1.3	1.875	2.858	1.8	18.8
2 11	8 34.76	+23 7.1	1.897	2.856	5.7	19.0
2 21	8 26.87	+24 1.7	1.947	2.854	9.6	19.3
3 2	8 20.96	+24 42.8	2.021	2.852	12.9	19.5

63438 2001 MY_{28} 1 29.8 89°.82 1°.9/28.4 18

12 23	9 13.74	+18 22.5	1.844	2.635	15.2	19.3
1 2	9 9.30	+19 33.3	1.777	2.655	11.7	19.1
1 12	9 2.31	+20 54.7	1.734	2.674	7.7	18.9
1 22	8 53.44	+22 19.8	1.718	2.694	3.5	18.7
2 1	8 43.68	+23 40.9	1.732	2.713	2.5	18.6
2 11	8 34.26	+24 51.2	1.775	2.731	6.3	18.9
2 21	8 26.27	+25 46.2	1.846	2.750	10.2	19.2
3 2	8 20.56	+26 24.7	1.941	2.768	13.5	19.4

328609 2009 SR_{114} 1 29.8 267°.14 1°.4/29.0 18

12 23	9 14.51	+20 34.9	1.956	2.746	14.5	21.0
1 2	9 10.04	+20 50.0	1.857	2.733	11.4	20.7
1 12	9 2.95	+21 11.4	1.781	2.721	7.6	20.5
1 22	8 53.81	+21 35.0	1.732	2.707	3.5	20.2
2 1	8 43.55	+21 56.0	1.712	2.694	1.9	20.1
2 11	8 33.38	+22 10.3	1.721	2.681	6.0	20.3
2 21	8 24.50	+22 15.2	1.757	2.668	10.2	20.5
3 2	8 17.85	+22 10.1	1.817	2.654	13.9	20.7

100186 1994 BL_{2} 1 29.8 186°.01 0°.3/29.9 18

12 23	9 15.73	+15 25.5	2.081	2.853	14.4	21.0
1 2	9 10.65	+15 42.0	1.989	2.853	11.3	20.8
1 12	9 3.17	+16 8.3	1.919	2.853	7.6	20.5
1 22	8 53.84	+16 41.3	1.877	2.851	3.5	20.3
2 1	8 43.56	+17 16.7	1.865	2.849	0.9	20.1
2 11	8 33.42	+17 50.2	1.883	2.847	5.2	20.4
2 21	8 24.50	+18 18.3	1.930	2.843	9.2	20.6
3 2	8 17.65	+18 38.9	2.002	2.839	12.8	20.8

429360 2010 GH_{99} 1 29.8 171°.26 3°.9/26.5 17

12 23	9 13.15	+30 18.0	2.785	3.570	10.8	22.1
1 2	9 8.19	+31 3.6	2.703	3.573	8.5	21.9
1 12	9 1.27	+31 48.5	2.646	3.575	6.0	21.8
1 22	8 52.91	+32 27.8	2.618	3.577	4.2	21.6
2 1	8 43.84	+32 57.0	2.620	3.578	4.3	21.6
2 11	8 34.96	+33 13.0	2.651	3.579	6.3	21.8
2 21	8 27.10	+33 15.0	2.711	3.580	8.7	21.9
3 2	8 20.94	+33 3.8	2.796	3.580	11.0	22.1

257378 2009 RN_{9} 1 29.8 136°.29 0°.2/29.6 17

12 23	9 6.83	+17 40.5	3.371	4.142	9.4	21.2
1 2	9 2.85	+17 57.3	3.280	4.145	7.3	21.1
1 12	8 57.49	+18 18.8	3.214	4.149	4.8	20.9
1 22	8 51.16	+18 43.1	3.178	4.153	2.1	20.7
2 1	8 44.35	+19 7.6	3.172	4.156	0.7	20.6
2 11	8 37.65	+19 30.1	3.197	4.159	3.5	20.9
2 21	8 31.63	+19 48.7	3.253	4.163	6.0	21.0
3 2	8 26.77	+20 2.2	3.335	4.166	8.3	21.2

174650 2003 SK_{181} 1 29.8 183°.27 2°.1/31.1 18

12 23	9 14.68	+10 19.8	2.141	2.897	14.5	21.8
1 2	9 9.73	+10 24.9	2.047	2.898	11.6	21.6
1 12	9 2.50	+10 42.7	1.975	2.898	8.1	21.4
1 22	8 53.53	+11 11.4	1.930	2.898	4.4	21.1
2 1	8 43.65	+11 48.1	1.915	2.896	2.1	21.0
2 11	8 33.90	+12 28.6	1.930	2.894	5.1	21.2
2 21	8 25.27	+13 8.8	1.974	2.892	8.8	21.4
3 2	8 18.58	+13 45.2	2.044	2.888	12.3	21.6

268565 2006 BS_{52} 1 29.8 120°.63 0°.5/29.5 18

12 23	9 13.36	+17 53.5	2.188	2.968	13.5	21.1
1 2	9 8.60	+18 10.8	2.107	2.978	10.5	21.0
1 12	9 1.66	+18 35.2	2.050	2.987	7.0	20.8
1 22	8 53.11	+19 3.5	2.021	2.996	3.1	20.5
2 1	8 43.80	+19 31.5	2.021	3.005	1.1	20.4
2 11	8 34.75	+19 55.5	2.051	3.013	5.0	20.7
2 21	8 26.89	+20 13.1	2.109	3.021	8.7	20.9
3 2	8 20.96	+20 22.8	2.193	3.029	11.8	21.1

118563 2000 FJ_{47} 1 29.8 358°.26 3°.1/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.72	+19 41.6	1.214	2.041	19.5	19.2
1 2	9 8.44	+20 48.8	1.142	2.039	15.2	18.9
1 12	9 2.60	+22 11.5	1.090	2.037	10.1	18.6
1 22	8 53.85	+23 41.3	1.060	2.037	4.9	18.3
2 1	8 43.55	+25 6.3	1.056	2.037	3.9	18.2
2 11	8 33.52	+26 15.8	1.078	2.037	8.9	18.5
2 21	8 25.49	+27 3.6	1.122	2.038	14.1	18.8
3 2	8 20.74	+27 28.1	1.187	2.040	18.6	19.1

430836 2005 JO_{99} 1 29.8 73°.53 1°.7/31.2 18

12 23	9 8.51	+ 9 48.7	2.280	3.043	13.5	20.6
1 2	9 4.78	+10 12.1	2.194	3.050	10.7	20.4
1 12	8 59.10	+10 48.7	2.132	3.057	7.5	20.2
1 22	8 51.97	+11 36.3	2.096	3.064	4.0	20.0
2 1	8 44.12	+12 31.4	2.089	3.071	1.8	19.9
2 11	8 36.44	+13 29.2	2.112	3.078	4.5	20.1
2 21	8 29.74	+14 25.3	2.164	3.085	8.0	20.3
3 2	8 24.72	+15 16.1	2.242	3.092	11.1	20.5

376564 2013 PK_{10} 1 29.8 189°.63 5°.5/ 3.3 17

12 23	9 10.61	− 2 23.8	2.621	3.312	13.6	22.8
1 2	9 6.17	− 2 32.8	2.519	3.311	11.6	22.6
1 12	8 59.94	− 2 24.6	2.438	3.309	9.2	22.4
1 22	8 52.34	− 1 58.4	2.383	3.307	6.9	22.3
2 1	8 44.01	− 1 14.9	2.356	3.304	5.5	22.2
2 11	8 35.75	− 0 17.2	2.359	3.300	6.1	22.2
2 21	8 28.30	+ 0 50.4	2.391	3.296	8.1	22.4
3 2	8 22.33	+ 2 2.8	2.450	3.290	10.6	22.5

64148 2001 TP_{40} 1 29.8 94°.75 4°.1/27.9 18

12 23	9 20.09	+25 49.6	1.547	2.350	17.1	18.5
1 2	9 14.77	+26 31.5	1.484	2.366	13.3	18.3
1 12	9 6.21	+27 16.4	1.443	2.382	9.0	18.1
1 22	8 55.24	+27 56.6	1.427	2.397	5.1	17.9
2 1	8 43.23	+28 24.3	1.438	2.412	4.6	17.9
2 11	8 31.83	+28 34.8	1.477	2.427	8.2	18.1
2 21	8 22.44	+28 27.3	1.542	2.441	12.2	18.4
3 2	8 16.05	+28 4.2	1.630	2.455	15.8	18.7

221107 2005 SB_{151} 1 29.8 103°.39 1°.0/30.4 18

12 23	9 12.47	+13 7.0	1.957	2.733	15.0	21.3
1 2	9 8.14	+13 24.7	1.878	2.744	11.8	21.1
1 12	9 1.48	+13 54.6	1.822	2.754	8.0	20.9
1 22	8 53.08	+14 33.7	1.792	2.764	3.8	20.6
2 1	8 43.85	+15 17.6	1.790	2.774	1.2	20.5
2 11	8 34.87	+16 1.5	1.818	2.784	5.1	20.7
2 21	8 27.16	+16 41.3	1.874	2.793	9.1	21.0
3 2	8 21.51	+17 13.9	1.955	2.803	12.6	21.2

123465 2000 WH_{145} 1 29.8 19°.13 1°.8/28.6 18

12 23	9 7.82	+16 51.1	1.463	2.277	17.4	19.0
1 2	9 5.43	+18 5.6	1.394	2.284	13.5	18.8
1 12	9 0.15	+19 36.0	1.346	2.291	8.9	18.5
1 22	8 52.62	+21 14.9	1.323	2.300	4.0	18.3
2 1	8 43.97	+22 52.4	1.327	2.309	2.6	18.2
2 11	8 35.60	+24 18.9	1.359	2.320	7.2	18.5
2 21	8 28.84	+25 27.8	1.416	2.331	11.8	18.8
3 2	8 24.66	+26 16.4	1.495	2.343	15.7	19.1

275772 2001 PU_{37} 1 29.8 82°.97 1°.7/28.3 18

12 23	9 11.45	+19 15.3	2.391	3.173	12.4	20.5
1 2	9 6.94	+20 23.3	2.325	3.198	9.5	20.4
1 12	9 0.46	+21 38.4	2.284	3.222	6.2	20.2
1 22	8 52.56	+22 55.4	2.272	3.247	2.9	20.0
2 1	8 44.01	+24 8.5	2.291	3.271	2.2	20.0
2 11	8 35.72	+25 12.6	2.341	3.294	5.2	20.3
2 21	8 28.50	+26 4.5	2.419	3.318	8.4	20.5
3 2	8 23.04	+26 43.0	2.524	3.341	11.1	20.7

217876 2001 QE_{221} 1 29.8 225°.78 3°.8/ 1.6 18

12 23	9 11.09	+ 3 57.0	2.206	2.942	14.7	21.1
1 2	9 7.00	+ 4 10.3	2.100	2.932	12.1	20.9
1 12	9 0.76	+ 4 41.6	2.016	2.922	9.0	20.7
1 22	8 52.82	+ 5 30.2	1.957	2.911	5.8	20.4
2 1	8 43.92	+ 6 33.8	1.927	2.900	3.8	20.3
2 11	8 35.01	+ 7 47.5	1.927	2.888	5.5	20.4
2 21	8 27.04	+ 9 5.5	1.957	2.876	8.8	20.5
3 2	8 20.83	+10 22.2	2.012	2.863	12.2	20.7

493731 2015 TO_{177} 1 29.8 99°.90 4°.2/27.4 18

12 23	9 17.40	+24 3.2	1.537	2.343	17.1	21.1
1 2	9 12.81	+25 13.6	1.472	2.357	13.2	20.9
1 12	9 5.01	+26 30.7	1.430	2.371	8.9	20.7
1 22	8 54.78	+27 45.5	1.414	2.385	5.0	20.5
2 1	8 43.39	+28 48.7	1.425	2.398	4.8	20.5
2 11	8 32.48	+29 33.1	1.464	2.411	8.4	20.7
2 21	8 23.45	+29 56.4	1.528	2.424	12.5	21.0
3 2	8 17.33	+29 59.7	1.615	2.437	16.1	21.2

428087 2006 OP_9 1 29.8 123°.49 1°.5/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.46	+ 7 53.7	2.818	3.559	11.7	21.4
1 2	9 5.12	+ 8 48.3	2.730	3.572	9.3	21.3
1 12	8 59.14	+ 9 56.1	2.667	3.586	6.5	21.1
1 22	8 51.97	+11 14.4	2.632	3.599	3.4	20.9
2 1	8 44.20	+12 39.1	2.629	3.611	1.5	20.8
2 11	8 36.55	+14 5.3	2.659	3.624	3.8	21.0
2 21	8 29.69	+15 28.3	2.720	3.636	6.8	21.2
3 2	8 24.21	+16 44.3	2.809	3.647	9.5	21.4

421512 2014 OF_{101} 1 29.8 271°.14 1°.0/29.3 17

12 23	9 17.18	+19 22.1	1.675	2.469	16.5	21.8
1 2	9 12.77	+19 33.2	1.569	2.446	13.0	21.5
1 12	9 5.22	+19 52.8	1.484	2.423	8.8	21.2
1 22	8 55.04	+20 16.8	1.424	2.399	4.0	20.8
2 1	8 43.27	+20 39.7	1.392	2.375	1.8	20.6
2 11	8 31.41	+20 56.2	1.388	2.351	6.9	20.9
2 21	8 20.97	+21 2.8	1.411	2.326	11.9	21.1
3 2	8 13.21	+20 58.5	1.458	2.301	16.3	21.3

219379 2000 SX_{76} 1 29.8 147°.99 1°.8/30.9 18

12 23	9 12.18	+11 17.3	2.124	2.889	14.3	20.8
1 2	9 7.78	+11 23.6	2.036	2.894	11.4	20.7
1 12	9 1.20	+11 42.0	1.972	2.898	7.9	20.4
1 22	8 52.97	+12 10.5	1.933	2.903	4.1	20.2
2 1	8 43.92	+12 45.9	1.924	2.907	1.8	20.1
2 11	8 35.05	+13 24.1	1.945	2.910	4.9	20.3
2 21	8 27.31	+14 1.3	1.994	2.914	8.6	20.5
3 2	8 21.46	+14 34.1	2.069	2.917	12.0	20.7

327339 2005 UP_{165} 1 29.8 160°.36 3°.3/27.7 18

12 23	9 14.56	+24 56.0	1.954	2.751	14.3	21.7
1 2	9 10.04	+25 39.7	1.873	2.753	11.1	21.5
1 12	9 2.91	+26 27.3	1.815	2.754	7.5	21.2
1 22	8 53.79	+27 12.9	1.784	2.755	4.2	21.0
2 1	8 43.68	+27 50.1	1.782	2.756	3.8	21.0
2 11	8 33.82	+28 14.1	1.808	2.757	7.0	21.2
2 21	8 25.36	+28 22.9	1.862	2.757	10.6	21.4
3 2	8 19.21	+28 17.0	1.939	2.758	13.8	21.6

473696 2015 YA_5 1 29.8 10°.48 5°.0/31.5 18

12 23	9 12.64	+ 9 57.1	1.210	2.012	21.0	20.1
1 2	9 9.59	+ 8 54.0	1.140	2.014	17.1	19.8
1 12	9 3.13	+ 8 6.5	1.087	2.017	12.4	19.5
1 22	8 54.03	+ 7 36.3	1.056	2.021	7.6	19.3
2 1	8 43.61	+ 7 23.2	1.049	2.026	5.0	19.2
2 11	8 33.62	+ 7 24.4	1.067	2.033	8.0	19.3
2 21	8 25.58	+ 7 35.4	1.109	2.040	12.7	19.6
3 2	8 20.61	+ 7 50.7	1.172	2.048	17.1	19.9

495747 2016 EN_{89} 1 29.8 119°.49 3°.7/ 1.5 18

12 23	9 10.61	+ 4 24.5	2.012	2.757	15.7	21.8
1 2	9 6.66	+ 4 38.6	1.926	2.765	12.8	21.6
1 12	9 0.50	+ 5 11.2	1.863	2.773	9.4	21.4
1 22	8 52.68	+ 6 1.5	1.824	2.781	5.9	21.2
2 1	8 44.01	+ 7 5.9	1.814	2.788	3.7	21.1
2 11	8 35.51	+ 8 19.2	1.833	2.795	5.5	21.2
2 21	8 28.15	+ 9 35.2	1.880	2.802	8.9	21.4
3 2	8 22.71	+10 48.1	1.954	2.809	12.3	21.6

241146 2007 RJ_{23} 1 29.8 196°.77 0°.7/30.2 18

12 23	9 16.73	+14 48.1	2.051	2.820	14.7	21.5
1 2	9 11.51	+14 54.5	1.955	2.817	11.6	21.3
1 12	9 3.81	+15 10.6	1.882	2.814	7.9	21.1
1 22	8 54.19	+15 33.9	1.837	2.810	3.7	20.8
2 1	8 43.56	+16 0.7	1.820	2.805	1.1	20.6
2 11	8 33.07	+16 26.9	1.834	2.799	5.3	20.9
2 21	8 23.80	+16 49.1	1.877	2.792	9.4	21.1
3 2	8 16.65	+17 5.4	1.945	2.785	13.0	21.3

53566 2000 CU_{30} 1 29.8 214°.33 1°.9/30.9 18

12 23	9 13.79	+10 18.8	1.651	2.428	17.3	19.0
1 2	9 9.83	+10 39.6	1.560	2.423	13.9	18.8
1 12	9 3.03	+11 18.4	1.489	2.419	9.7	18.5
1 22	8 53.96	+12 12.9	1.443	2.414	5.0	18.2
2 1	8 43.62	+13 17.9	1.425	2.408	2.0	18.0
2 11	8 33.36	+14 26.5	1.436	2.402	6.1	18.3
2 21	8 24.51	+15 31.9	1.473	2.396	10.8	18.5
3 2	8 18.12	+16 29.0	1.534	2.389	15.0	18.8

145666 6882 P–L 1 29.8 65°.23 2°.3/28.6 18

12 23	9 17.76	+21 46.4	1.587	2.387	16.9	20.7
1 2	9 12.62	+22 19.2	1.533	2.414	13.0	20.5
1 12	9 4.57	+22 58.0	1.501	2.441	8.6	20.3
1 22	8 54.46	+23 36.4	1.494	2.469	4.1	20.1
2 1	8 43.56	+24 8.1	1.515	2.496	2.9	20.1
2 11	8 33.31	+24 28.3	1.565	2.523	6.8	20.4
2 21	8 24.94	+24 35.3	1.641	2.550	10.9	20.7
3 2	8 19.26	+24 29.7	1.740	2.576	14.4	21.0

341700 2007 VF_{160} 1 29.8 107°.75 4°.3/ 2.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.75	+ 2 25.4	2.485	3.210	13.5	21.5
1 2	9 4.77	+ 2 13.9	2.397	3.218	11.2	21.3
1 12	8 59.02	+ 2 17.3	2.330	3.226	8.5	21.2
1 22	8 51.95	+ 2 35.7	2.289	3.233	5.9	21.0
2 1	8 44.24	+ 3 7.8	2.277	3.240	4.4	20.9
2 11	8 36.68	+ 3 50.5	2.294	3.248	5.3	21.0
2 21	8 30.00	+ 4 39.8	2.340	3.255	7.8	21.2
3 2	8 24.85	+ 5 31.5	2.412	3.262	10.4	21.3

124137 2001 LQ_{5} 1 29.8 122°.48 1°.5/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.91	+17 40.3	1.702	2.491	16.4	20.2
1 2	9 12.02	+18 40.0	1.631	2.507	12.7	20.0
1 12	9 4.30	+19 51.6	1.583	2.522	8.4	19.8
1 22	8 54.43	+21 8.5	1.561	2.537	3.7	19.5
2 1	8 43.53	+22 22.7	1.569	2.551	2.2	19.5
2 11	8 32.99	+23 26.9	1.606	2.565	6.6	19.8
2 21	8 24.04	+24 16.7	1.670	2.577	10.8	20.0
3 2	8 17.64	+24 50.3	1.758	2.590	14.5	20.3

8756 Mollissima 1 29.8 54°.62 0°.2/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.40	+16 47.4	2.156	2.940	13.5	18.5
1 2	9 6.33	+17 8.1	2.082	2.954	10.5	18.3
1 12	9 0.17	+17 37.1	2.030	2.967	7.0	18.1
1 22	8 52.49	+18 10.9	2.006	2.981	3.1	17.9
2 1	8 44.10	+18 45.6	2.011	2.995	1.0	17.7
2 11	8 35.99	+19 17.1	2.045	3.009	4.9	18.1
2 21	8 29.04	+19 42.5	2.108	3.023	8.5	18.3
3 2	8 23.95	+19 59.9	2.195	3.037	11.6	18.5

61844 2000 QU_{200} 1 29.8 88°.69 1°.2/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.47	+11 10.8	2.448	3.211	12.7	19.8
1 2	9 4.63	+11 39.4	2.363	3.220	10.0	19.7
1 12	8 58.95	+12 19.6	2.302	3.229	6.9	19.5
1 22	8 51.93	+13 9.0	2.268	3.239	3.5	19.3
2 1	8 44.25	+14 3.9	2.264	3.248	1.3	19.1
2 11	8 36.73	+15 0.0	2.291	3.257	4.3	19.3
2 21	8 30.14	+15 53.1	2.347	3.265	7.6	19.6
3 2	8 25.11	+16 40.2	2.429	3.274	10.5	19.8

500648 2012 VW_{10} 1 29.8 139°.86 0°.2/29.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.45	+15 29.2	2.759	3.526	11.3	22.9
1 2	9 5.93	+15 47.5	2.673	3.535	8.8	22.8
1 12	8 59.70	+16 13.0	2.611	3.543	5.9	22.6
1 22	8 52.24	+16 43.2	2.578	3.552	2.7	22.4
2 1	8 44.18	+17 15.2	2.575	3.559	0.7	22.2
2 11	8 36.29	+17 45.7	2.603	3.567	4.0	22.5
2 21	8 29.27	+18 12.3	2.661	3.574	7.1	22.7
3 2	8 23.72	+18 33.3	2.746	3.581	9.8	22.9

131085 2000 YL_{124} 1 29.8 76°.20 0°.1/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.03	+14 52.3	1.523	2.317	17.8	19.6
1 2	9 10.70	+15 24.6	1.459	2.336	13.9	19.4
1 12	9 3.45	+16 11.0	1.417	2.355	9.2	19.1
1 22	8 54.04	+17 6.3	1.399	2.374	4.1	18.9
2 1	8 43.68	+18 3.9	1.409	2.393	1.1	18.7
2 11	8 33.78	+18 56.8	1.447	2.412	6.2	19.1
2 21	8 25.63	+19 40.1	1.511	2.431	10.8	19.4
3 2	8 20.12	+20 11.4	1.599	2.450	14.7	19.7

265949 2006 BZ_{231} 1 29.8 243°.78 1°.7/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.68	+20 5.5	2.087	2.878	13.7	20.9
1 2	9 7.65	+20 46.2	1.997	2.874	10.6	20.7
1 12	9 1.27	+21 34.8	1.931	2.870	7.1	20.4
1 22	8 53.08	+22 26.5	1.891	2.866	3.3	20.2
2 1	8 43.93	+23 15.7	1.881	2.862	2.2	20.1
2 11	8 34.91	+23 57.4	1.900	2.858	5.8	20.3
2 21	8 27.05	+24 28.1	1.947	2.854	9.6	20.6
3 2	8 21.21	+24 46.4	2.019	2.849	12.9	20.8

284385 2006 SB_{376} 1 29.8 221°.25 3°.1/ 1.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.19	+ 4 1.0	3.029	3.751	11.4	22.3
1 2	9 4.13	+ 4 10.6	2.918	3.741	9.3	22.1
1 12	8 58.52	+ 4 33.0	2.830	3.731	7.0	21.9
1 22	8 51.74	+ 5 7.5	2.770	3.720	4.6	21.8
2 1	8 44.31	+ 5 52.6	2.740	3.709	3.1	21.6
2 11	8 36.91	+ 6 45.2	2.740	3.698	4.3	21.7
2 21	8 30.16	+ 7 41.9	2.771	3.686	6.7	21.9
3 2	8 24.64	+ 8 39.0	2.829	3.674	9.2	22.0

419456 2010 CJ_{142} 1 29.8 318°.50 0°.8/29.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.24	+15 59.4	2.026	2.815	14.2	20.7
1 2	9 5.81	+16 57.0	1.936	2.811	11.0	20.5
1 12	9 0.09	+18 7.3	1.869	2.807	7.3	20.2
1 22	8 52.57	+19 25.6	1.828	2.804	3.2	20.0
2 1	8 44.07	+20 45.5	1.817	2.801	1.5	19.8
2 11	8 35.66	+22 0.3	1.836	2.798	5.6	20.1
2 21	8 28.35	+23 4.7	1.883	2.795	9.6	20.3
3 2	8 23.00	+23 55.6	1.955	2.792	13.0	20.5

277868 2006 JA_{34} 1 29.8 105°.55 4°.6/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.82	+29 41.8	2.301	3.095	12.5	21.1
1 2	9 9.11	+30 44.5	2.231	3.106	9.8	20.9
1 12	9 2.10	+31 47.2	2.186	3.117	7.0	20.8
1 22	8 53.39	+32 43.6	2.168	3.127	4.9	20.7
2 1	8 43.87	+33 27.7	2.180	3.138	5.0	20.7
2 11	8 34.62	+33 55.6	2.220	3.148	7.3	20.9
2 21	8 26.64	+34 6.0	2.288	3.158	10.0	21.0
3 2	8 20.70	+34 0.1	2.379	3.168	12.5	21.2

500315 2012 RB_{22} 1 29.8 57°.22 3°.0/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.81	+26 27.7	2.215	3.007	13.0	20.7
1 2	9 9.82	+26 46.5	2.136	3.012	10.1	20.5
1 12	9 2.53	+27 6.1	2.081	3.017	6.9	20.3
1 22	8 53.56	+27 21.7	2.053	3.023	3.8	20.1
2 1	8 43.82	+27 29.2	2.054	3.028	3.4	20.1
2 11	8 34.42	+27 25.6	2.085	3.034	6.2	20.3
2 21	8 26.31	+27 10.3	2.143	3.040	9.4	20.5
3 2	8 20.26	+26 44.3	2.227	3.045	12.3	20.7

246835 2009 WA_{204} 1 29.8 4°.22 1°.0/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.59	+13 48.9	1.569	2.370	17.0	20.3
1 2	9 5.81	+13 58.7	1.490	2.370	13.4	20.0
1 12	9 0.31	+14 22.5	1.432	2.370	9.2	19.8
1 22	8 52.71	+14 57.3	1.397	2.371	4.4	19.5
2 1	8 44.04	+15 38.5	1.389	2.374	1.3	19.3
2 11	8 35.63	+16 20.1	1.409	2.377	6.0	19.6
2 21	8 28.67	+16 57.2	1.454	2.381	10.6	19.9
3 2	8 24.12	+17 26.3	1.522	2.386	14.6	20.1

157596 2005 VR_{26} 1 29.8 45°.21 1°.0/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.98	+17 16.4	1.262	2.076	19.6	20.1
1 2	9 10.61	+17 48.4	1.196	2.085	15.3	19.8
1 12	9 3.80	+18 34.5	1.150	2.094	10.2	19.6
1 22	8 54.34	+19 28.9	1.128	2.104	4.5	19.3
2 1	8 43.60	+20 23.1	1.131	2.114	1.9	19.1
2 11	8 33.33	+21 9.3	1.160	2.125	7.5	19.5
2 21	8 25.10	+21 42.3	1.213	2.136	12.7	19.8
3 2	8 20.00	+22 0.5	1.288	2.147	17.1	20.1

190102 2004 TK_{268} 1 29.8 175°.49 3°.6/ 1.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.84	+ 4 54.6	2.446	3.180	13.5	21.4
1 2	9 6.47	+ 4 50.7	2.351	3.182	11.0	21.3
1 12	9 0.21	+ 5 1.0	2.278	3.183	8.2	21.1
1 22	8 52.53	+ 5 24.9	2.232	3.185	5.3	20.9
2 1	8 44.11	+ 6 0.7	2.214	3.185	3.6	20.8
2 11	8 35.80	+ 6 45.1	2.227	3.185	5.0	20.9
2 21	8 28.40	+ 7 34.0	2.269	3.185	7.9	21.1
3 2	8 22.60	+ 8 23.4	2.337	3.185	10.8	21.2

429958 2012 UQ_{176} 1 29.8 237°.33 5°.7/ 3.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.48	− 2 4.9	2.823	3.514	12.8	21.3
1 2	9 5.24	− 2 42.1	2.714	3.503	10.9	21.2
1 12	8 59.33	− 3 5.3	2.626	3.492	8.8	21.0
1 22	8 52.13	− 3 13.0	2.564	3.481	6.9	20.9
2 1	8 44.22	− 3 4.9	2.529	3.469	5.7	20.8
2 11	8 36.32	− 2 42.3	2.524	3.457	6.3	20.8
2 21	8 29.13	− 2 8.1	2.547	3.444	8.1	20.9
3 2	8 23.28	− 1 26.0	2.597	3.432	10.3	21.0

64588 2001 XX_{3} 1 29.8 139°.79 3°.9/31.3 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 23.01	+ 9 46.6	1.918	2.662	16.4	18.3
1 2	9 16.25	+ 8 50.9	1.834	2.675	13.2	18.1
1 12	9 6.86	+ 8 5.2	1.773	2.687	9.5	17.9
1 22	8 55.52	+ 7 30.3	1.738	2.698	5.8	17.7
2 1	8 43.28	+ 7 5.9	1.734	2.708	3.9	17.6
2 11	8 31.41	+ 6 50.7	1.760	2.717	6.2	17.8
2 21	8 21.04	+ 6 42.7	1.815	2.726	9.9	18.0
3 2	8 13.06	+ 6 39.2	1.896	2.735	13.3	18.2

128519 2004 PV_{40} 1 29.8 215°.57 0°.4/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.85	+18 4.9	1.734	2.521	16.2	20.6
1 2	9 12.90	+18 10.8	1.643	2.516	12.8	20.3
1 12	9 5.02	+18 25.2	1.573	2.511	8.6	20.1
1 22	8 54.84	+18 44.4	1.529	2.505	3.9	19.8
2 1	8 43.44	+19 3.6	1.514	2.498	1.3	19.6
2 11	8 32.22	+19 18.4	1.528	2.491	6.2	19.9
2 21	8 22.51	+19 25.9	1.568	2.484	10.8	20.1
3 2	8 15.36	+19 24.9	1.633	2.476	14.9	20.4

25646 Noniearora 1 29.8 297°.07 0°.4/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.97	+15 5.4	1.646	2.442	16.6	18.8
1 2	9 7.73	+15 47.9	1.555	2.434	13.0	18.6
1 12	9 1.69	+16 45.9	1.487	2.426	8.8	18.3
1 22	8 53.40	+17 54.7	1.443	2.419	3.9	18.0
2 1	8 43.84	+19 7.5	1.427	2.411	1.3	17.8
2 11	8 34.36	+20 16.7	1.439	2.404	6.4	18.1
2 21	8 26.26	+21 15.8	1.478	2.397	11.1	18.3
3 2	8 20.60	+22 1.3	1.540	2.390	15.2	18.6

406908 2009 DY_{136} 1 29.8 1°.82 1°.6/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.72	+14 28.0	1.313	2.121	19.4	20.8
1 2	9 9.55	+14 10.1	1.237	2.119	15.4	20.5
1 12	9 3.09	+14 5.5	1.179	2.119	10.6	20.3
1 22	8 54.05	+14 12.1	1.145	2.119	5.2	20.0
2 1	8 43.67	+14 26.0	1.136	2.120	1.9	19.7
2 11	8 33.63	+14 42.4	1.153	2.121	6.9	20.1
2 21	8 25.44	+14 56.9	1.194	2.124	12.1	20.3
3 2	8 20.21	+15 6.4	1.257	2.127	16.7	20.6

85772 1998 UN_{6} 1 29.8 141°.66 4°.5/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 20.00	+26 38.0	1.760	2.556	15.7	20.5
1 2	9 14.55	+27 41.1	1.689	2.567	12.2	20.3
1 12	9 6.06	+28 47.4	1.642	2.577	8.4	20.1
1 22	8 55.26	+29 48.9	1.620	2.587	5.2	19.9
2 1	8 43.35	+30 37.2	1.628	2.596	5.1	20.0
2 11	8 31.84	+31 6.8	1.664	2.604	8.2	20.2
2 21	8 22.08	+31 16.2	1.727	2.612	11.9	20.4
3 2	8 15.06	+31 7.2	1.812	2.619	15.2	20.6

323843 2005 SH_{81} 1 29.8 159°.51 5°.7/ 3.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.59	− 1 21.0	2.189	2.900	15.5	21.9
1 2	9 6.51	− 1 27.7	2.097	2.904	13.1	21.7
1 12	9 0.35	− 1 14.5	2.026	2.908	10.3	21.5
1 22	8 52.63	− 0 40.6	1.979	2.912	7.5	21.3
2 1	8 44.09	+ 0 12.7	1.960	2.915	5.8	21.2
2 11	8 35.68	+ 1 21.2	1.970	2.918	6.5	21.3
2 21	8 28.28	+ 2 39.2	2.008	2.920	9.0	21.4
3 2	8 22.63	+ 4 0.4	2.072	2.922	11.9	21.6

502749 2015 DR_{46} 1 29.8 5°.20 3°.0/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.33	+23 30.4	1.846	2.652	14.6	20.8
1 2	9 6.90	+24 13.4	1.767	2.653	11.3	20.6
1 12	9 0.90	+25 1.8	1.712	2.653	7.6	20.3
1 22	8 52.94	+25 49.9	1.682	2.655	4.0	20.1
2 1	8 44.01	+26 31.3	1.680	2.657	3.5	20.1
2 11	8 35.34	+27 0.9	1.706	2.659	6.9	20.3
2 21	8 28.04	+27 16.0	1.758	2.662	10.6	20.5
3 2	8 22.99	+27 16.5	1.834	2.666	14.0	20.7

117172 2004 RR_{50} 1 29.8 135°.82 2°.3/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.07	+21 32.0	1.721	2.514	16.1	20.6
1 2	9 12.97	+22 8.1	1.646	2.524	12.5	20.3
1 12	9 4.97	+22 51.2	1.593	2.533	8.3	20.1
1 22	8 54.77	+23 35.2	1.567	2.541	4.0	19.9
2 1	8 43.51	+24 13.5	1.569	2.549	2.8	19.8
2 11	8 32.62	+24 40.6	1.600	2.557	6.8	20.1
2 21	8 23.40	+24 54.2	1.658	2.564	11.0	20.3
3 2	8 16.78	+24 54.2	1.740	2.570	14.7	20.6

231793 2000 DX_{8} 1 29.8 59°.20 1°.6/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.09	+22 16.4	2.108	2.896	13.7	20.7
1 2	9 10.13	+22 21.4	2.023	2.898	10.6	20.5
1 12	9 2.80	+22 29.8	1.962	2.900	7.1	20.3
1 22	8 53.72	+22 37.8	1.928	2.903	3.3	20.1
2 1	8 43.81	+22 41.7	1.924	2.905	2.0	20.0
2 11	8 34.19	+22 38.6	1.949	2.908	5.6	20.2
2 21	8 25.88	+22 27.3	2.002	2.910	9.3	20.4
3 2	8 19.66	+22 7.8	2.080	2.913	12.5	20.7

154840 2004 RW_{35} 1 29.8 165°.74 2°.5/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.26	+23 22.9	2.257	3.044	12.9	20.4
1 2	9 9.42	+24 2.0	2.173	3.047	10.0	20.3
1 12	9 2.32	+24 45.3	2.113	3.050	6.7	20.1
1 22	8 53.52	+25 27.8	2.080	3.053	3.5	19.8
2 1	8 43.87	+26 4.5	2.078	3.055	2.9	19.8
2 11	8 34.43	+26 31.2	2.106	3.057	5.9	20.0
2 21	8 26.17	+26 45.7	2.162	3.058	9.3	20.2
3 2	8 19.88	+26 48.0	2.242	3.060	12.3	20.4

143314 2003 AL_{47} 1 29.8 64°.09 2°.3/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.94	+21 26.3	1.611	2.412	16.6	19.9
1 2	9 11.30	+22 1.5	1.551	2.433	12.8	19.7
1 12	9 3.78	+22 43.4	1.513	2.454	8.5	19.5
1 22	8 54.19	+23 25.9	1.500	2.475	4.0	19.3
2 1	8 43.71	+24 2.3	1.515	2.496	2.8	19.3
2 11	8 33.78	+24 27.6	1.559	2.517	6.8	19.6
2 21	8 25.62	+24 39.5	1.628	2.538	10.9	19.9
3 2	8 20.08	+24 38.2	1.721	2.559	14.5	20.1

219068 1997 TG_{9} 1 29.8 184°.57 5°.8/ 2.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.72	− 0 49.9	2.319	3.026	14.8	21.5
1 2	9 7.29	− 1 11.5	2.223	3.027	12.5	21.3
1 12	9 0.84	− 1 15.7	2.147	3.026	9.9	21.1
1 22	8 52.86	− 1 1.2	2.096	3.026	7.3	20.9
2 1	8 44.06	− 0 28.6	2.072	3.024	5.8	20.8
2 11	8 35.34	+ 0 19.1	2.078	3.022	6.5	20.9
2 21	8 27.58	+ 1 17.5	2.112	3.020	8.9	21.0
3 2	8 21.50	+ 2 21.1	2.172	3.017	11.6	21.2

330465 2007 EC_{160} 1 29.8 278°.49 1°.6/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.96	+11 41.5	1.948	2.723	15.1	21.5
1 2	9 7.14	+11 51.9	1.857	2.720	12.0	21.2
1 12	9 0.97	+12 15.7	1.788	2.718	8.3	21.0
1 22	8 52.98	+12 50.5	1.745	2.716	4.3	20.8
2 1	8 44.03	+13 32.8	1.731	2.714	1.7	20.6
2 11	8 35.22	+14 17.8	1.745	2.712	5.2	20.8
2 21	8 27.58	+15 0.7	1.788	2.710	9.3	21.0
3 2	8 21.98	+15 38.1	1.855	2.708	12.9	21.3

265373 2004 RU_{215} 1 29.8 213°.75 0°.1/29.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.88	+18 5.0	2.474	3.242	12.5	20.6
1 2	9 10.46	+18 4.2	2.371	3.234	9.8	20.4
1 12	9 2.92	+18 8.7	2.293	3.226	6.6	20.1
1 22	8 53.78	+18 16.0	2.244	3.218	2.9	19.9
2 1	8 43.81	+18 23.3	2.225	3.209	0.9	19.7
2 11	8 33.96	+18 27.9	2.237	3.200	4.7	20.0
2 21	8 25.13	+18 27.9	2.279	3.189	8.2	20.2
3 2	8 18.08	+18 22.7	2.347	3.179	11.3	20.4

345998 2007 TN_{196} 1 29.8 53°.54 2°.2/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.75	+ 9 59.2	2.096	2.862	14.5	20.8
1 2	9 5.84	+10 3.6	2.021	2.878	11.5	20.6
1 12	8 59.87	+10 20.9	1.968	2.893	8.0	20.4
1 22	8 52.39	+10 49.3	1.942	2.909	4.4	20.2
2 1	8 44.22	+11 25.7	1.944	2.925	2.2	20.1
2 11	8 36.32	+12 5.9	1.975	2.941	4.8	20.3
2 21	8 29.56	+12 45.9	2.035	2.957	8.3	20.6
3 2	8 24.63	+13 22.3	2.120	2.974	11.5	20.8

376672 2013 QX_{22} 1 29.8 118°.29 1°.6/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.02	+20 53.2	2.078	2.866	13.9	21.5
1 2	9 9.34	+21 19.2	1.998	2.873	10.7	21.3
1 12	9 2.31	+21 51.0	1.941	2.880	7.1	21.1
1 22	8 53.52	+22 24.2	1.911	2.886	3.3	20.8
2 1	8 43.91	+22 53.9	1.911	2.893	2.1	20.8
2 11	8 34.56	+23 16.1	1.941	2.899	5.7	21.0
2 21	8 26.49	+23 28.5	1.998	2.905	9.4	21.2
3 2	8 20.50	+23 30.6	2.080	2.911	12.6	21.5

286462 2002 AE_{128} 1 29.8 33°.00 0°.1/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.36	+13 40.2	1.546	2.346	17.3	20.3
1 2	9 6.39	+14 28.0	1.477	2.356	13.5	20.1
1 12	9 0.68	+15 32.2	1.428	2.368	9.0	19.9
1 22	8 52.89	+16 47.9	1.404	2.380	4.1	19.6
2 1	8 44.08	+18 7.4	1.408	2.393	1.1	19.4
2 11	8 35.60	+19 22.7	1.439	2.406	6.1	19.8
2 21	8 28.64	+20 27.4	1.497	2.420	10.7	20.1
3 2	8 24.13	+21 17.8	1.578	2.434	14.6	20.3

108754 2001 OM_{44} 1 29.8 128°.43 4°.3/ 1.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.10	+ 4 20.2	2.138	2.873	15.1	20.6
1 2	9 8.41	+ 4 2.1	2.054	2.885	12.4	20.4
1 12	9 1.58	+ 3 59.7	1.993	2.896	9.3	20.2
1 22	8 53.18	+ 4 12.8	1.956	2.907	6.1	20.1
2 1	8 44.01	+ 4 40.0	1.949	2.917	4.4	20.0
2 11	8 35.06	+ 5 17.7	1.970	2.927	5.8	20.1
2 21	8 27.23	+ 6 1.6	2.020	2.937	8.8	20.3
3 2	8 21.27	+ 6 47.2	2.096	2.946	11.8	20.5

492544 2014 OE_{107} 1 29.8 140°.52 0°.8/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.85	+17 15.5	1.810	2.598	15.6	22.2
1 2	9 10.34	+17 53.3	1.731	2.605	12.2	22.0
1 12	9 3.18	+18 41.9	1.674	2.612	8.1	21.8
1 22	8 53.99	+19 36.4	1.643	2.618	3.6	21.5
2 1	8 43.79	+20 30.8	1.640	2.624	1.5	21.4
2 11	8 33.84	+21 18.9	1.668	2.630	6.0	21.7
2 21	8 25.31	+21 56.6	1.722	2.635	10.2	21.9
3 2	8 19.13	+22 22.2	1.801	2.640	13.9	22.2

358514 2007 RQ_{291} 1 29.8 243°.43 3°.8/ 1.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.21	+ 6 36.2	1.728	2.491	17.2	21.4
1 2	9 8.49	+ 6 34.7	1.633	2.484	14.1	21.1
1 12	9 2.10	+ 6 51.9	1.558	2.476	10.3	20.9
1 22	8 53.59	+ 7 27.4	1.507	2.469	6.2	20.6
2 1	8 43.87	+ 8 18.4	1.484	2.461	3.8	20.5
2 11	8 34.21	+ 9 19.5	1.488	2.453	6.3	20.6
2 21	8 25.82	+10 24.3	1.520	2.444	10.4	20.8
3 2	8 19.71	+11 26.7	1.576	2.436	14.4	21.0

29124 1984 SW_{6} 1 29.8 90°.34 3°.2/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.66	+22 4.1	1.496	2.299	17.6	19.3
1 2	9 13.71	+23 3.4	1.437	2.320	13.6	19.1
1 12	9 5.57	+24 10.5	1.400	2.341	9.0	18.9
1 22	8 55.06	+25 17.1	1.388	2.361	4.6	18.7
2 1	8 43.51	+26 14.5	1.404	2.381	3.8	18.7
2 11	8 32.55	+26 55.9	1.448	2.401	7.8	19.0
2 21	8 23.55	+27 18.9	1.517	2.421	12.0	19.3
3 2	8 17.47	+27 24.2	1.609	2.439	15.7	19.5

363121 2001 ON_{91} 1 29.8 80°.69 6°.8/ 3.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.63	− 1 44.7	1.922	2.633	17.4	21.0
1 2	9 9.63	− 2 21.6	1.858	2.663	14.6	20.9
1 12	9 2.37	− 2 37.4	1.814	2.692	11.5	20.8
1 22	8 53.51	− 2 30.8	1.794	2.720	8.6	20.6
2 1	8 43.96	− 2 2.8	1.801	2.749	6.9	20.6
2 11	8 34.82	− 1 17.2	1.835	2.776	7.5	20.7
2 21	8 27.02	− 0 19.7	1.897	2.804	9.8	20.9
3 2	8 21.29	+ 0 43.3	1.984	2.831	12.5	21.1

161979 2007 MU_{24} 1 29.8 100°.24 2°.0/28.6 18

12 23	9 14.91	+18 26.5	1.606	2.404	16.8	20.3
1 2	9 10.70	+19 30.6	1.536	2.417	13.0	20.1
1 12	9 3.56	+20 46.8	1.489	2.430	8.6	19.9
1 22	8 54.20	+22 8.1	1.467	2.443	3.9	19.6
2 1	8 43.74	+23 25.9	1.474	2.455	2.6	19.6
2 11	8 33.63	+24 32.1	1.509	2.467	7.0	19.9
2 21	8 25.16	+25 22.1	1.570	2.479	11.3	20.2
3 2	8 19.30	+25 54.6	1.655	2.490	15.1	20.4

19465 Amandarusso 1 29.8 112°.61 1°.5/30.7 18

12 23	9 12.84	+12 42.1	2.055	2.825	14.6	19.0
1 2	9 8.37	+12 42.9	1.972	2.833	11.5	18.8
1 12	9 1.64	+12 54.8	1.911	2.840	7.9	18.6
1 22	8 53.24	+13 15.5	1.876	2.847	4.0	18.4
2 1	8 44.02	+13 41.9	1.871	2.854	1.6	18.2
2 11	8 35.04	+14 10.2	1.895	2.861	5.0	18.5
2 21	8 27.26	+14 36.9	1.948	2.868	8.8	18.7
3 2	8 21.45	+14 59.4	2.026	2.874	12.2	19.0

371142 2005 WX_{152} 1 29.8 115°.41 1°.9/30.9 18

12 23	9 12.93	+11 42.8	2.015	2.784	14.9	21.4
1 2	9 8.49	+11 38.7	1.931	2.790	11.8	21.2
1 12	9 1.75	+11 46.2	1.869	2.796	8.2	21.0
1 22	8 53.31	+12 3.7	1.833	2.802	4.3	20.7
2 1	8 44.01	+12 28.2	1.826	2.808	2.0	20.6
2 11	8 34.95	+12 56.0	1.848	2.814	5.1	20.8
2 21	8 27.10	+13 23.4	1.898	2.819	8.9	21.0
3 2	8 21.25	+13 47.5	1.974	2.824	12.4	21.3

343653 2010 JB_{123} 1 29.8 93°.35 0°.2/29.6 18

12 23	9 8.64	+15 31.6	2.451	3.228	12.3	20.7
1 2	9 4.88	+16 12.7	2.362	3.231	9.6	20.5
1 12	8 59.22	+17 3.5	2.298	3.234	6.4	20.3
1 22	8 52.15	+18 0.3	2.262	3.237	2.8	20.1
2 1	8 44.35	+18 58.9	2.255	3.240	0.9	20.0
2 11	8 36.68	+19 54.6	2.280	3.243	4.5	20.2
2 21	8 29.92	+20 43.6	2.333	3.246	7.9	20.5
3 2	8 24.77	+21 23.6	2.412	3.248	10.9	20.7

32183 2000 ND_{19} 1 29.8 241°.42 0°.5/29.5 18

12 23	9 12.06	+16 39.6	1.922	2.709	14.8	19.3
1 2	9 8.12	+17 9.5	1.832	2.707	11.6	19.1
1 12	9 1.70	+17 50.0	1.766	2.704	7.8	18.8
1 22	8 53.36	+18 37.2	1.726	2.701	3.5	18.6
2 1	8 44.01	+19 25.8	1.714	2.698	1.2	18.4
2 11	8 34.80	+20 10.5	1.732	2.696	5.6	18.7
2 21	8 26.83	+20 47.1	1.777	2.693	9.8	18.9
3 2	8 21.00	+21 13.2	1.847	2.690	13.4	19.2

232757 2004 NJ_{7} 1 29.8 246°.72 2°.4/31.1 17

12 23	9 16.34	+10 9.8	1.977	2.735	15.5	21.4
1 2	9 11.57	+10 8.2	1.862	2.714	12.6	21.2
1 12	9 4.16	+10 20.4	1.769	2.692	8.9	20.9
1 22	8 54.57	+10 45.2	1.702	2.669	4.9	20.6
2 1	8 43.64	+11 20.1	1.663	2.645	2.5	20.4
2 11	8 32.56	+12 0.7	1.655	2.619	5.8	20.5
2 21	8 22.54	+12 42.3	1.675	2.593	10.1	20.7
3 2	8 14.65	+13 21.0	1.721	2.566	14.1	20.9

242203 2003 QA_{25} 1 29.8 176°.98 3°.0/31.6 18

12 23	9 14.76	+ 8 19.1	2.012	2.765	15.4	21.2
1 2	9 9.97	+ 8 14.0	1.921	2.768	12.4	21.0
1 12	9 2.81	+ 8 23.2	1.851	2.769	8.9	20.8
1 22	8 53.82	+ 8 45.8	1.807	2.770	5.2	20.5
2 1	8 43.89	+ 9 19.2	1.792	2.771	3.0	20.4
2 11	8 34.10	+ 9 59.3	1.807	2.770	5.5	20.5
2 21	8 25.51	+10 41.7	1.850	2.770	9.2	20.8
3 2	8 18.95	+11 22.2	1.919	2.768	12.7	21.0

85449 1997 GA_{17} 1 29.8 122°.53 0°.9/29.4 18

12 23	9 17.78	+18 7.8	1.564	2.358	17.4	19.6
1 2	9 12.98	+18 30.7	1.490	2.367	13.6	19.4
1 12	9 5.12	+19 4.0	1.437	2.377	9.0	19.2
1 22	8 54.92	+19 42.6	1.410	2.386	4.0	18.9
2 1	8 43.61	+20 20.1	1.411	2.394	1.6	18.8
2 11	8 32.69	+20 50.7	1.439	2.403	6.6	19.1
2 21	8 23.52	+21 10.9	1.494	2.410	11.3	19.4
3 2	8 17.11	+21 19.8	1.573	2.418	15.3	19.6

304060 2006 FQ_{12} 1 29.8 161°.40 0°.1/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.68	+15 47.4	2.020	2.795	14.6	22.1
1 2	9 10.71	+16 15.7	1.935	2.802	11.5	21.9
1 12	9 3.30	+16 54.5	1.873	2.807	7.7	21.7
1 22	8 54.04	+17 39.8	1.838	2.812	3.4	21.4
2 1	8 43.85	+18 26.8	1.832	2.817	1.0	21.2
2 11	8 33.87	+19 10.3	1.857	2.821	5.3	21.5
2 21	8 25.16	+19 46.4	1.910	2.824	9.4	21.8
3 2	8 18.56	+20 13.2	1.989	2.826	12.9	22.0

266298 2007 BB_{75} 1 29.8 274°.39 2°.7/28.5 18

12 23	9 17.03	+24 37.8	1.898	2.692	14.8	21.1
1 2	9 12.04	+24 51.0	1.812	2.690	11.5	20.8
1 12	9 4.32	+25 6.7	1.749	2.687	7.8	20.6
1 22	8 54.53	+25 19.9	1.712	2.685	4.0	20.4
2 1	8 43.72	+25 25.5	1.704	2.682	3.1	20.3
2 11	8 33.20	+25 20.2	1.725	2.680	6.6	20.5
2 21	8 24.18	+25 2.9	1.773	2.677	10.5	20.8
3 2	8 17.57	+24 34.8	1.845	2.675	14.0	21.0

298839 2004 RP_{187} 1 29.8 102°.11 2°.9/31.3 18

12 23	9 16.09	+10 1.0	1.606	2.379	17.9	20.8
1 2	9 11.43	+ 9 48.2	1.531	2.391	14.3	20.6
1 12	9 3.96	+ 9 50.8	1.478	2.403	10.1	20.4
1 22	8 54.37	+10 7.6	1.449	2.415	5.6	20.2
2 1	8 43.78	+10 35.3	1.447	2.427	3.0	20.0
2 11	8 33.55	+11 9.0	1.473	2.439	6.2	20.3
2 21	8 24.93	+11 43.9	1.527	2.450	10.5	20.5
3 2	8 18.84	+12 15.9	1.604	2.461	14.4	20.8

265783 2005 WW_{116} 1 29.8 168°.84 2°.2/28.3 18

12 23	9 12.58	+20 59.8	2.033	2.825	14.0	20.7
1 2	9 8.43	+21 49.8	1.948	2.826	10.8	20.5
1 12	9 1.86	+22 47.3	1.888	2.827	7.2	20.3
1 22	8 53.43	+23 47.0	1.854	2.828	3.5	20.0
2 1	8 44.05	+24 42.7	1.850	2.829	2.7	20.0
2 11	8 34.83	+25 28.8	1.875	2.829	6.2	20.2
2 21	8 26.84	+26 2.0	1.927	2.830	9.9	20.4
3 2	8 20.95	+26 21.2	2.004	2.830	13.2	20.6

199220 2006 AD_{41} 1 29.8 233°.23 1°.2/29.2 17

12 23	9 15.49	+21 4.4	2.294	3.074	13.0	21.0
1 2	9 10.39	+21 11.5	2.195	3.065	10.1	20.8
1 12	9 3.03	+21 22.9	2.120	3.057	6.8	20.6
1 22	8 53.92	+21 35.0	2.073	3.048	3.1	20.3
2 1	8 43.92	+21 44.3	2.056	3.038	1.6	20.2
2 11	8 34.05	+21 47.6	2.069	3.028	5.3	20.4
2 21	8 25.31	+21 43.4	2.111	3.018	8.9	20.6
3 2	8 18.50	+21 31.4	2.178	3.008	12.1	20.8

6015 Paularego 1 29.8 217°.19 3°.5/ 1.1 18

12 23	9 12.78	+ 6 24.0	2.001	2.751	15.6	17.9
1 2	9 8.57	+ 6 23.8	1.901	2.744	12.7	17.6
1 12	9 1.97	+ 6 40.0	1.823	2.738	9.3	17.4
1 22	8 53.52	+ 7 12.2	1.771	2.730	5.7	17.2
2 1	8 44.02	+ 7 57.8	1.746	2.722	3.5	17.0
2 11	8 34.57	+ 8 52.4	1.751	2.714	5.7	17.1
2 21	8 26.21	+ 9 50.7	1.784	2.705	9.4	17.3
3 2	8 19.84	+10 47.5	1.843	2.696	13.0	17.5

154566 2003 HR_{30} 1 29.8 326°.21 9°.0/ 3.1 18

12 23	9 8.30	− 1 36.7	1.602	2.344	19.2	19.4
1 2	9 5.73	− 2 45.6	1.505	2.326	16.6	19.2
1 12	9 0.46	− 3 34.1	1.425	2.309	13.6	19.0
1 22	8 52.97	− 3 57.3	1.367	2.293	10.7	18.8
2 1	8 44.17	− 3 52.5	1.332	2.278	9.1	18.6
2 11	8 35.30	− 3 20.9	1.322	2.263	9.9	18.6
2 21	8 27.67	− 2 27.6	1.337	2.250	12.6	18.7
3 2	8 22.35	− 1 20.3	1.373	2.237	15.9	18.9

268090 2004 RF_{229} 1 29.8 138°.82 2°.3/28.4 18

12 23	9 14.66	+23 12.0	2.115	2.905	13.6	20.9
1 2	9 9.89	+23 40.6	2.033	2.909	10.5	20.7
1 12	9 2.73	+24 13.3	1.975	2.913	7.0	20.5
1 22	8 53.79	+24 45.3	1.944	2.917	3.5	20.3
2 1	8 44.00	+25 11.5	1.942	2.921	2.8	20.3
2 11	8 34.46	+25 28.2	1.970	2.924	6.0	20.5
2 21	8 26.21	+25 33.4	2.026	2.927	9.6	20.7
3 2	8 20.05	+25 27.1	2.106	2.931	12.7	20.9

197807 2004 PH_{69} 1 29.8 56°.50 3°.2/28.6 18

12 23	9 19.30	+23 54.8	1.316	2.129	19.0	20.0
1 2	9 14.62	+24 16.9	1.257	2.145	14.8	19.8
1 12	9 6.38	+24 43.7	1.218	2.160	9.9	19.5
1 22	8 55.52	+25 8.1	1.202	2.177	5.0	19.3
2 1	8 43.55	+25 22.6	1.213	2.193	3.8	19.3
2 11	8 32.31	+25 22.7	1.251	2.209	8.1	19.6
2 21	8 23.33	+25 7.6	1.313	2.226	12.8	19.9
3 2	8 17.61	+24 39.4	1.397	2.243	16.8	20.2

373359 2012 KA_{31} 1 29.8 194°.44 3°.7/ 1.6 13 C

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.08	+ 4 26.4	2.503	3.233	13.3	22.7
1 2	9 6.70	+ 4 23.0	2.403	3.230	10.9	22.5
1 12	9 0.43	+ 4 33.7	2.325	3.228	8.2	22.3
1 22	8 52.74	+ 4 58.2	2.273	3.225	5.3	22.2
2 1	8 44.29	+ 5 35.0	2.251	3.221	3.7	22.0
2 11	8 35.91	+ 6 20.7	2.259	3.217	5.0	22.1
2 21	8 28.40	+ 7 11.3	2.296	3.212	7.9	22.3
3 2	8 22.43	+ 8 2.8	2.360	3.207	10.7	22.5

273920 2007 HL_{78} 1 29.8 259°.28 2°.9/31.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.03	+ 6 43.4	2.220	2.970	14.2	21.3
1 2	9 6.28	+ 6 57.2	2.110	2.954	11.6	21.1
1 12	9 0.40	+ 7 26.9	2.022	2.938	8.4	20.9
1 22	8 52.82	+ 8 11.8	1.960	2.922	5.0	20.6
2 1	8 44.26	+ 9 8.9	1.927	2.905	2.9	20.4
2 11	8 35.65	+10 13.9	1.924	2.888	5.1	20.6
2 21	8 27.95	+11 21.3	1.950	2.871	8.7	20.7
3 2	8 21.97	+12 26.2	2.002	2.854	12.2	20.9

459836 2013 SW_{83} 1 29.8 227°.40 3°.7/31.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.89	+ 7 27.0	2.243	2.987	14.3	21.2
1 2	9 9.14	+ 6 57.4	2.140	2.979	11.7	21.0
1 12	9 2.21	+ 6 39.4	2.059	2.970	8.6	20.8
1 22	8 53.60	+ 6 33.3	2.005	2.961	5.4	20.6
2 1	8 44.07	+ 6 38.3	1.979	2.952	3.7	20.5
2 11	8 34.60	+ 6 52.1	1.984	2.943	5.5	20.6
2 21	8 26.13	+ 7 11.6	2.017	2.933	8.8	20.8
3 2	8 19.47	+ 7 33.7	2.076	2.922	12.0	20.9

469247 2016 JW_{19} 1 29.8 163°.21 3°.5/26.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.17	+27 27.4	2.657	3.445	11.2	21.3
1 2	9 7.61	+28 22.6	2.575	3.448	8.7	21.1
1 12	9 1.06	+29 19.4	2.518	3.451	6.0	21.0
1 22	8 53.04	+30 12.6	2.490	3.454	3.9	20.8
2 1	8 44.27	+30 57.4	2.492	3.457	3.9	20.8
2 11	8 35.65	+31 29.9	2.524	3.459	6.1	21.0
2 21	8 28.02	+31 48.4	2.584	3.461	8.8	21.2
3 2	8 22.08	+31 53.1	2.668	3.462	11.2	21.3

122374 2000 QO_{63} 1 29.9 168°.89 1°.1/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.11	+17 2.4	1.851	2.636	15.4	20.3
1 2	9 10.61	+17 52.7	1.767	2.640	12.0	20.1
1 12	9 3.46	+18 54.9	1.705	2.643	8.0	19.8
1 22	8 54.25	+20 3.7	1.670	2.646	3.6	19.6
2 1	8 43.94	+21 12.4	1.664	2.647	1.7	19.4
2 11	8 33.81	+22 14.1	1.688	2.649	6.1	19.7
2 21	8 25.03	+23 4.1	1.740	2.650	10.3	20.0
3 2	8 18.56	+23 40.3	1.815	2.650	14.0	20.2

26252 1998 QV_{54} 1 29.9 227°.33 0°.8/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.91	+18 41.0	1.840	2.622	15.6	19.5
1 2	9 13.75	+18 56.3	1.740	2.611	12.3	19.2
1 12	9 5.70	+19 20.0	1.662	2.598	8.3	19.0
1 22	8 55.33	+19 48.2	1.610	2.585	3.7	18.6
2 1	8 43.63	+20 15.5	1.588	2.571	1.5	18.5
2 11	8 31.98	+20 37.0	1.595	2.557	6.2	18.7
2 21	8 21.72	+20 49.7	1.629	2.541	10.8	19.0
3 2	8 13.92	+20 52.4	1.689	2.525	14.8	19.2

66401 1999 LJ_{11} 1 29.9 125°.32 1°.3/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.28	+10 53.5	2.032	2.793	15.1	19.9
1 2	9 10.26	+11 28.3	1.956	2.811	11.9	19.7
1 12	9 2.94	+12 17.4	1.902	2.829	8.1	19.5
1 22	8 53.91	+13 17.4	1.875	2.846	4.0	19.3
2 1	8 44.07	+14 23.2	1.879	2.862	1.4	19.1
2 11	8 34.51	+15 29.0	1.913	2.878	5.0	19.4
2 21	8 26.21	+16 29.7	1.975	2.893	8.9	19.7
3 2	8 19.94	+17 21.8	2.064	2.907	12.2	19.9

411166 2010 DU_{18} 1 29.9 262°.15 2°.1/28.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.82	+19 31.2	1.740	2.536	15.8	21.8
1 2	9 10.91	+20 21.6	1.637	2.516	12.5	21.5
1 12	9 4.03	+21 24.1	1.557	2.497	8.4	21.2
1 22	8 54.67	+22 33.0	1.502	2.477	3.9	20.9
2 1	8 43.81	+23 40.5	1.475	2.456	2.7	20.8
2 11	8 32.82	+24 39.1	1.477	2.435	7.2	21.0
2 21	8 23.15	+25 23.2	1.506	2.414	11.8	21.2
3 2	8 15.99	+25 50.8	1.558	2.392	16.0	21.4

282877 2007 ER_{104} 1 29.9 309°.18 2°.6/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.76	+22 56.0	1.847	2.646	14.9	21.2
1 2	9 9.66	+23 27.4	1.760	2.641	11.6	20.9
1 12	9 2.87	+24 4.4	1.697	2.637	7.8	20.7
1 22	8 54.00	+24 41.5	1.659	2.632	3.9	20.5
2 1	8 44.04	+25 12.8	1.649	2.628	3.1	20.4
2 11	8 34.28	+25 33.4	1.668	2.624	6.7	20.6
2 21	8 25.92	+25 40.9	1.714	2.620	10.7	20.8
3 2	8 19.92	+25 35.1	1.783	2.616	14.3	21.1

208229 2000 SZ_{249} 1 29.9 167°.66 2°.0/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.29	+23 37.7	2.901	3.682	10.5	20.8
1 2	9 6.68	+24 13.2	2.814	3.685	8.1	20.6
1 12	9 0.33	+24 51.7	2.752	3.688	5.4	20.5
1 22	8 52.69	+25 29.3	2.719	3.690	2.8	20.3
2 1	8 44.43	+26 2.4	2.716	3.692	2.4	20.3
2 11	8 36.30	+26 27.8	2.745	3.694	4.8	20.4
2 21	8 29.04	+26 43.7	2.802	3.696	7.5	20.6
3 2	8 23.26	+26 49.9	2.886	3.697	10.0	20.8

347137 2010 OO_{46} 1 29.9 183°.70 4°.3/ 2.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.14	− 0 15.7	3.093	3.792	11.6	21.9
1 2	9 4.06	− 0 24.4	2.992	3.792	9.7	21.7
1 12	8 58.51	− 0 19.7	2.913	3.791	7.6	21.6
1 22	8 51.86	− 0 1.2	2.861	3.791	5.6	21.4
2 1	8 44.65	+ 0 30.3	2.837	3.790	4.4	21.3
2 11	8 37.51	+ 1 12.3	2.843	3.788	5.0	21.4
2 21	8 31.04	+ 2 1.8	2.879	3.787	6.8	21.5
3 2	8 25.77	+ 2 55.0	2.943	3.784	9.0	21.6

417089 2005 UK_{299} 1 29.9 126°.17 0°.6/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.18	+14 25.4	2.067	2.842	14.4	22.0
1 2	9 8.69	+14 41.1	1.985	2.850	11.3	21.8
1 12	9 1.94	+15 7.1	1.925	2.858	7.6	21.5
1 22	8 53.49	+15 40.7	1.892	2.865	3.6	21.3
2 1	8 44.21	+16 17.7	1.888	2.873	1.0	21.1
2 11	8 35.16	+16 53.8	1.914	2.880	5.0	21.4
2 21	8 27.32	+17 25.4	1.969	2.886	8.8	21.7
3 2	8 21.45	+17 50.1	2.048	2.893	12.2	21.9

358563 2007 TV_{239} 1 29.9 174°.55 0°.2/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.97	+16 21.6	2.054	2.829	14.4	22.1
1 2	9 10.96	+16 44.0	1.965	2.832	11.3	21.9
1 12	9 3.53	+17 15.8	1.900	2.834	7.6	21.7
1 22	8 54.24	+17 53.6	1.861	2.836	3.4	21.4
2 1	8 44.00	+18 32.7	1.852	2.837	1.0	21.3
2 11	8 33.95	+19 8.4	1.874	2.837	5.3	21.6
2 21	8 25.13	+19 37.3	1.924	2.837	9.3	21.8
3 2	8 18.41	+19 57.4	1.999	2.836	12.8	22.0

448185 2008 UK_{17} 1 29.9 12°.52 4°.4/ 1.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.45	+ 7 21.7	1.248	2.043	20.9	21.4
1 2	9 7.93	+ 7 6.2	1.175	2.045	17.0	21.1
1 12	9 2.16	+ 7 13.4	1.119	2.047	12.4	20.8
1 22	8 53.81	+ 7 43.1	1.085	2.050	7.4	20.6
2 1	8 44.12	+ 8 31.8	1.075	2.054	4.4	20.4
2 11	8 34.71	+ 9 32.5	1.090	2.058	7.4	20.6
2 21	8 27.09	+10 36.8	1.130	2.063	12.3	20.9
3 2	8 22.40	+11 37.2	1.191	2.069	16.8	21.2

465071 2006 SJ_{246} 1 29.9 144°.67 2°.8/ 1.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.56	+ 6 15.2	2.638	3.378	12.5	21.9
1 2	9 4.63	+ 6 23.2	2.545	3.382	10.1	21.7
1 12	8 59.01	+ 6 44.1	2.475	3.386	7.3	21.6
1 22	8 52.13	+ 7 17.0	2.432	3.390	4.5	21.4
2 1	8 44.60	+ 7 59.5	2.419	3.394	2.8	21.3
2 11	8 37.19	+ 8 48.3	2.436	3.398	4.4	21.4
2 21	8 30.61	+ 9 39.5	2.482	3.401	7.2	21.6
3 2	8 25.45	+10 29.5	2.555	3.404	9.9	21.7

437031 2012 TJ_{301} 1 29.9 174°.35 2°.4/27.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.68	+24 12.9	2.727	3.511	11.0	21.5
1 2	9 7.14	+24 57.1	2.640	3.513	8.5	21.3
1 12	9 0.72	+25 44.5	2.578	3.514	5.7	21.1
1 22	8 52.91	+26 30.8	2.545	3.515	3.1	21.0
2 1	8 44.39	+27 11.7	2.542	3.516	2.8	21.0
2 11	8 36.01	+27 43.4	2.570	3.517	5.3	21.1
2 21	8 28.55	+28 4.2	2.626	3.517	8.1	21.3
3 2	8 22.67	+28 13.4	2.709	3.517	10.7	21.5

363350 2002 QQ_{131} 1 29.9 251°.49 1°.2/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.74	+18 22.6	1.748	2.543	15.8	21.4
1 2	9 9.79	+18 55.6	1.659	2.538	12.4	21.2
1 12	9 3.06	+19 38.9	1.592	2.532	8.3	20.9
1 22	8 54.14	+20 28.0	1.551	2.527	3.7	20.6
2 1	8 44.04	+21 16.6	1.538	2.521	1.8	20.5
2 11	8 34.06	+21 58.5	1.553	2.515	6.4	20.7
2 21	8 25.49	+22 29.7	1.595	2.510	10.8	21.0
3 2	8 19.32	+22 48.3	1.661	2.504	14.7	21.2

464974 2005 YB_{29} 1 29.9 139°.59 2°.8/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.07	+23 3.6	2.041	2.836	13.8	21.0
1 2	9 8.85	+23 55.5	1.959	2.838	10.7	20.8
1 12	9 2.19	+24 53.3	1.902	2.841	7.2	20.6
1 22	8 53.66	+25 51.0	1.871	2.843	3.8	20.4
2 1	8 44.18	+26 42.4	1.869	2.845	3.3	20.4
2 11	8 34.91	+27 22.3	1.897	2.848	6.5	20.6
2 21	8 26.90	+27 47.8	1.952	2.850	10.1	20.8
3 2	8 21.01	+27 58.6	2.031	2.852	13.3	21.0

171249 2005 MV_1 1 29.9 150°.33 1°.8/31.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.19	+ 6 5.3	2.159	2.902	14.8	20.1
1 2	9 8.69	+ 7 18.2	2.067	2.909	11.9	19.9
1 12	9 1.97	+ 8 51.6	1.998	2.916	8.3	19.7
1 22	8 53.55	+10 41.7	1.957	2.923	4.5	19.5
2 1	8 44.21	+12 42.2	1.947	2.929	1.8	19.3
2 11	8 34.95	+14 44.9	1.969	2.935	4.9	19.5
2 21	8 26.74	+16 41.9	2.023	2.940	8.7	19.8
3 2	8 20.38	+18 27.1	2.104	2.944	12.1	20.0

426912 2013 WA_{83} 1 29.9 158°.17 3°.3/ 1.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.47	+ 5 57.2	2.510	3.248	13.1	21.4
1 2	9 6.20	+ 5 47.6	2.417	3.251	10.7	21.3
1 12	9 0.10	+ 5 50.8	2.347	3.255	7.9	21.1
1 22	8 52.64	+ 6 6.3	2.303	3.258	5.0	20.9
2 1	8 44.50	+ 6 32.5	2.289	3.261	3.3	20.8
2 11	8 36.49	+ 7 6.5	2.304	3.264	4.8	20.9
2 21	8 29.36	+ 7 44.7	2.349	3.266	7.6	21.1
3 2	8 23.77	+ 8 23.8	2.420	3.268	10.5	21.3

132311 2002 GY_{13} 1 29.9 161°.89 1°.0/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.48	+18 36.5	2.079	2.858	14.2	21.2
1 2	9 11.33	+19 7.3	1.995	2.864	11.0	21.0
1 12	9 3.76	+19 46.1	1.934	2.870	7.3	20.8
1 22	8 54.35	+20 28.6	1.900	2.875	3.3	20.5
2 1	8 44.03	+21 9.5	1.896	2.879	1.6	20.4
2 11	8 33.93	+21 44.3	1.923	2.883	5.5	20.7
2 21	8 25.10	+22 9.8	1.978	2.886	9.4	20.9
3 2	8 18.38	+22 24.8	2.058	2.888	12.7	21.1

397311 2006 SM_{274} 1 29.9 80°.69 2°.2/31.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.88	+10 4.5	1.867	2.627	16.2	21.1
1 2	9 11.45	+10 12.3	1.808	2.661	12.8	21.0
1 12	9 3.65	+10 34.2	1.771	2.695	8.9	20.8
1 22	8 54.20	+11 7.6	1.760	2.727	4.7	20.6
2 1	8 44.11	+11 48.5	1.778	2.760	2.2	20.5
2 11	8 34.51	+12 32.0	1.826	2.791	5.2	20.8
2 21	8 26.39	+13 13.6	1.902	2.822	9.0	21.1
3 2	8 20.46	+13 50.1	2.004	2.852	12.3	21.3

428481 2007 VK_{100} 1 29.9 73°.65 6°.7/ 3.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.78	− 2 33.2	2.378	3.075	14.7	20.8
1 2	9 6.48	− 3 25.6	2.294	3.086	12.6	20.7
1 12	9 0.31	− 4 1.4	2.231	3.096	10.2	20.6
1 22	8 52.74	− 4 18.8	2.192	3.107	8.0	20.4
2 1	8 44.49	− 4 17.1	2.181	3.117	6.7	20.4
2 11	8 36.40	− 3 58.2	2.198	3.128	7.2	20.4
2 21	8 29.28	− 3 25.5	2.242	3.138	9.0	20.5
3 2	8 23.77	− 2 43.6	2.311	3.149	11.3	20.7

362171 2009 FR_{12} 1 29.9 206°.05 2°.1/28.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.08	+22 16.8	2.148	2.931	13.6	22.5
1 2	9 11.89	+22 48.7	2.054	2.926	10.6	22.3
1 12	9 4.21	+23 26.0	1.983	2.920	7.1	22.0
1 22	8 54.60	+24 3.7	1.940	2.913	3.5	21.8
2 1	8 43.97	+24 36.6	1.927	2.906	2.6	21.7
2 11	8 33.46	+25 0.1	1.944	2.898	6.0	21.9
2 21	8 24.18	+25 11.9	1.989	2.890	9.8	22.1
3 2	8 17.03	+25 11.7	2.059	2.881	13.1	22.3

381505 2008 SY_{132} 1 29.9 136°.25 2°.4/31.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.97	+ 9 12.2	2.314	3.069	13.6	22.0
1 2	9 6.75	+ 9 13.0	2.225	3.074	10.9	21.9
1 12	9 0.54	+ 9 25.9	2.159	3.079	7.7	21.7
1 22	8 52.87	+ 9 49.7	2.119	3.084	4.4	21.5
2 1	8 44.45	+10 21.9	2.109	3.089	2.4	21.3
2 11	8 36.20	+10 59.0	2.129	3.093	4.7	21.5
2 21	8 28.94	+11 37.2	2.177	3.097	8.0	21.7
3 2	8 23.37	+12 13.2	2.252	3.101	11.1	21.9

66276 1999 JG_9 1 29.9 223°.37 0°.5/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.17	+13 24.6	1.961	2.735	15.1	20.4
1 2	9 9.86	+13 59.8	1.861	2.725	11.9	20.1
1 12	9 3.02	+14 49.1	1.783	2.715	8.1	19.9
1 22	8 54.14	+15 49.2	1.731	2.705	3.8	19.6
2 1	8 44.10	+16 54.7	1.709	2.694	1.0	19.4
2 11	8 34.05	+17 59.4	1.717	2.682	5.5	19.7
2 21	8 25.15	+18 57.8	1.753	2.670	9.8	19.9
3 2	8 18.37	+19 46.2	1.814	2.656	13.7	20.1

367517 2009 OU_{24} 1 29.9 191°.90 0°.4/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.16	+16 39.1	2.318	3.084	13.3	21.4
1 2	9 11.59	+16 31.3	2.222	3.082	10.4	21.2
1 12	9 3.81	+16 29.8	2.149	3.080	7.1	21.0
1 22	8 54.36	+16 32.3	2.104	3.078	3.3	20.8
2 1	8 44.07	+16 36.2	2.090	3.074	0.9	20.6
2 11	8 33.95	+16 38.8	2.107	3.071	4.8	20.9
2 21	8 24.95	+16 38.4	2.153	3.067	8.4	21.1
3 2	8 17.84	+16 33.8	2.226	3.062	11.7	21.3

398346 2011 QY_{87} 1 29.9 125°.19 1°.0/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.51	+18 33.3	1.860	2.642	15.5	22.6
1 2	9 13.05	+19 2.3	1.788	2.659	12.0	22.4
1 12	9 4.95	+19 39.7	1.738	2.675	8.0	22.2
1 22	8 54.89	+20 20.5	1.715	2.690	3.5	22.0
2 1	8 43.94	+20 59.4	1.721	2.705	1.6	21.8
2 11	8 33.38	+21 31.2	1.758	2.719	5.9	22.2
2 21	8 24.33	+21 53.1	1.822	2.732	9.9	22.4
3 2	8 17.67	+22 4.2	1.911	2.745	13.4	22.7

400013 2006 KE_{24} 1 29.9 247°.92 1°.0/28.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.99	+20 27.6	3.607	4.381	8.8	22.0
1 2	9 3.10	+20 53.8	3.501	4.369	6.8	21.8
1 12	8 57.86	+21 23.7	3.421	4.357	4.5	21.7
1 22	8 51.61	+21 55.0	3.371	4.345	2.1	21.5
2 1	8 44.84	+22 25.1	3.351	4.333	1.3	21.4
2 11	8 38.10	+22 51.5	3.363	4.320	3.6	21.6
2 21	8 31.95	+23 12.4	3.405	4.308	6.0	21.7
3 2	8 26.88	+23 26.7	3.474	4.295	8.2	21.8

209736 2005 EV_{180} 1 29.9 252°.81 1°.9/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.18	+10 14.9	1.763	2.537	16.5	20.8
1 2	9 8.54	+10 34.3	1.666	2.528	13.2	20.6
1 12	9 2.26	+11 10.8	1.590	2.519	9.3	20.3
1 22	8 53.84	+12 2.3	1.539	2.509	4.9	20.0
2 1	8 44.20	+13 4.3	1.517	2.499	2.0	19.8
2 11	8 34.59	+14 10.4	1.522	2.489	5.8	20.1
2 21	8 26.22	+15 14.4	1.555	2.479	10.3	20.3
3 2	8 20.10	+16 11.2	1.613	2.469	14.4	20.5

302516 2002 JV_{69} 1 29.9 283°.32 4°.3/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.91	+23 51.9	1.605	2.414	16.3	20.2
1 2	9 10.57	+25 3.2	1.509	2.396	12.8	19.9
1 12	9 4.04	+26 24.8	1.435	2.377	8.8	19.7
1 22	8 54.80	+27 48.6	1.387	2.358	5.1	19.4
2 1	8 43.92	+29 4.6	1.366	2.338	5.0	19.3
2 11	8 32.94	+30 3.8	1.372	2.319	8.9	19.5
2 21	8 23.46	+30 41.3	1.403	2.300	13.3	19.7
3 2	8 16.77	+30 56.2	1.456	2.281	17.3	19.9

369113 2008 OC_4 1 29.9 54°.83 2°.3/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 20.27	+24 56.5	1.836	2.626	15.3	19.8
1 2	9 14.38	+24 47.9	1.765	2.641	11.9	19.6
1 12	9 5.76	+24 39.9	1.718	2.656	8.0	19.4
1 22	8 55.22	+24 28.2	1.698	2.671	3.9	19.1
2 1	8 43.90	+24 9.2	1.706	2.686	2.7	19.1
2 11	8 33.15	+23 41.1	1.744	2.702	6.3	19.3
2 21	8 24.13	+23 4.3	1.810	2.718	10.1	19.6
3 2	8 17.62	+22 20.4	1.900	2.734	13.5	19.9

408234 2013 EY_{100} 1 29.9 297°.75 0°.6/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.76	+13 11.4	1.545	2.339	17.6	21.1
1 2	9 8.58	+13 41.7	1.457	2.333	13.9	20.9
1 12	9 2.47	+14 29.1	1.389	2.326	9.5	20.6
1 22	8 53.99	+15 30.1	1.346	2.320	4.5	20.3
2 1	8 44.17	+16 38.3	1.329	2.314	1.1	20.0
2 11	8 34.45	+17 45.9	1.340	2.308	6.4	20.3
2 21	8 26.19	+18 46.3	1.378	2.302	11.3	20.6
3 2	8 20.51	+19 34.8	1.438	2.296	15.7	20.9

346505 2008 UC_{125} 1 29.9 129°.68 2°.1/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 20.25	+21 55.9	1.743	2.532	16.1	21.4
1 2	9 14.65	+22 21.5	1.670	2.545	12.5	21.2
1 12	9 6.15	+22 52.7	1.619	2.557	8.3	21.0
1 22	8 55.48	+23 23.9	1.595	2.569	4.0	20.7
2 1	8 43.82	+23 49.2	1.599	2.580	2.6	20.7
2 11	8 32.59	+24 4.0	1.633	2.590	6.6	20.9
2 21	8 23.06	+24 6.5	1.693	2.600	10.8	21.2
3 2	8 16.17	+23 57.1	1.778	2.609	14.4	21.4

199780 2006 KY_{75} 1 29.9 331°.08 1°.6/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.33	+20 20.7	1.852	2.651	14.9	20.3
1 2	9 7.78	+20 44.9	1.762	2.643	11.6	20.1
1 12	9 1.65	+21 16.7	1.695	2.636	7.7	19.8
1 22	8 53.52	+21 51.4	1.653	2.628	3.6	19.5
2 1	8 44.32	+22 23.9	1.639	2.622	2.1	19.4
2 11	8 35.27	+22 49.2	1.654	2.615	6.2	19.7
2 21	8 27.53	+23 4.3	1.696	2.609	10.3	19.9
3 2	8 22.01	+23 7.9	1.761	2.604	14.0	20.1

274037 2007 RG_{188} 1 29.9 168°.76 5°.0/25.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.14	+36 14.6	3.079	3.851	10.2	21.8
1 2	9 11.28	+37 4.0	3.002	3.856	8.2	21.7
1 12	9 3.44	+37 49.2	2.950	3.860	6.3	21.6
1 22	8 54.15	+38 25.1	2.927	3.864	5.1	21.5
2 1	8 44.18	+38 47.4	2.934	3.867	5.4	21.5
2 11	8 34.43	+38 53.6	2.970	3.870	6.9	21.6
2 21	8 25.74	+38 43.7	3.035	3.872	8.8	21.7
3 2	8 18.78	+38 19.3	3.123	3.873	10.7	21.9

429874 2012 SS_{39} 1 29.9 285°.09 6°.2/26.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.55	+36 4.5	2.255	3.041	13.0	21.2
1 2	9 13.15	+36 44.8	2.171	3.034	10.5	21.1
1 12	9 5.08	+37 20.0	2.110	3.027	8.1	20.9
1 22	8 55.01	+37 43.5	2.077	3.020	6.4	20.8
2 1	8 43.96	+37 49.4	2.071	3.013	6.6	20.8
2 11	8 33.23	+37 34.6	2.094	3.006	8.6	20.9
2 21	8 23.97	+36 59.8	2.143	3.000	11.2	21.0
3 2	8 17.08	+36 8.0	2.215	2.993	13.7	21.2

442653 2012 TJ_{137} 1 29.9 70°.57 0°.7/30.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.49	+14 39.9	1.288	2.089	20.0	21.9
1 2	9 13.18	+14 48.8	1.227	2.107	15.7	21.6
1 12	9 5.48	+15 12.8	1.186	2.124	10.6	21.4
1 22	8 55.26	+15 47.6	1.167	2.142	4.9	21.1
2 1	8 43.91	+16 26.8	1.175	2.160	1.3	20.9
2 11	8 33.16	+17 3.8	1.210	2.177	6.8	21.3
2 21	8 24.48	+17 33.7	1.269	2.195	12.0	21.6
3 2	8 18.89	+17 53.7	1.351	2.213	16.3	22.0

320619 2008 CJ_{32} 1 29.9 222°.71 1°.4/29.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.58	+20 16.5	2.174	2.956	13.5	21.6
1 2	9 10.71	+20 41.8	2.076	2.947	10.6	21.4
1 12	9 3.44	+21 13.6	2.001	2.938	7.1	21.2
1 22	8 54.30	+21 47.8	1.953	2.928	3.3	20.9
2 1	8 44.14	+22 19.5	1.935	2.917	1.9	20.8
2 11	8 34.06	+22 44.6	1.947	2.906	5.6	21.0
2 21	8 25.12	+23 0.3	1.988	2.895	9.4	21.2
3 2	8 18.21	+23 5.6	2.054	2.883	12.8	21.4

143426 2003 BR_{57} 1 29.9 320°.03 0°.8/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.73	+14 57.3	2.274	3.049	13.2	20.2
1 2	9 6.70	+14 57.3	2.179	3.045	10.4	20.0
1 12	9 0.62	+15 5.6	2.108	3.040	7.1	19.8
1 22	8 52.97	+15 20.2	2.063	3.036	3.4	19.5
2 1	8 44.51	+15 38.4	2.048	3.032	1.0	19.3
2 11	8 36.19	+15 56.8	2.062	3.028	4.6	19.6
2 21	8 28.87	+16 12.7	2.105	3.024	8.3	19.8
3 2	8 23.31	+16 24.3	2.173	3.020	11.5	20.0

354578 2004 TK_{367} 1 29.9 55°.48 1°.4/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.09	+17 23.3	1.349	2.159	18.8	20.4
1 2	9 10.55	+18 11.6	1.287	2.174	14.6	20.2
1 12	9 3.76	+19 14.0	1.245	2.188	9.7	19.9
1 22	8 54.52	+20 23.4	1.227	2.203	4.3	19.6
2 1	8 44.11	+21 31.1	1.235	2.219	2.2	19.5
2 11	8 34.19	+22 28.8	1.271	2.234	7.2	19.9
2 21	8 26.18	+23 11.4	1.331	2.250	12.1	20.2
3 2	8 21.10	+23 37.3	1.413	2.266	16.2	20.5

461978 2006 VG_{61} 1 29.9 24°.33 1°.0/30.3 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.41	+14 46.6	1.305	2.116	19.3	21.3
1 2	9 8.46	+14 45.6	1.242	2.127	15.1	21.0
1 12	9 2.35	+14 58.9	1.198	2.138	10.3	20.8
1 22	8 53.87	+15 23.0	1.176	2.151	4.8	20.5
2 1	8 44.29	+15 52.9	1.180	2.165	1.4	20.3
2 11	8 35.21	+16 22.4	1.211	2.180	6.6	20.7
2 21	8 27.98	+16 46.9	1.265	2.195	11.6	21.0
3 2	8 23.59	+17 3.4	1.342	2.212	15.8	21.3

218623 2005 QY_{108} 1 29.9 245°.16 5°.7/ 2.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.30	− 0 25.6	2.050	2.772	16.1	21.2
1 2	9 6.68	− 0 28.6	1.947	2.763	13.6	21.0
1 12	9 0.80	− 0 10.4	1.863	2.753	10.6	20.8
1 22	8 53.15	+ 0 29.9	1.804	2.742	7.6	20.6
2 1	8 44.47	+ 1 31.1	1.771	2.732	5.7	20.5
2 11	8 35.78	+ 2 48.8	1.768	2.721	6.7	20.5
2 21	8 28.08	+ 4 16.5	1.792	2.710	9.6	20.7
3 2	8 22.24	+ 5 47.1	1.842	2.698	12.8	20.8

502318 2015 BU_{159} 1 29.9 248°.17 1°.8/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.22	+ 9 48.9	2.268	3.030	13.6	21.9
1 2	9 5.56	+10 11.0	2.172	3.027	10.9	21.7
1 12	8 59.88	+10 46.7	2.100	3.024	7.6	21.5
1 22	8 52.66	+11 34.1	2.053	3.021	4.1	21.2
2 1	8 44.62	+12 29.5	2.036	3.019	1.8	21.1
2 11	8 36.66	+13 28.3	2.050	3.016	4.6	21.3
2 21	8 29.65	+14 25.9	2.091	3.013	8.2	21.5
3 2	8 24.33	+15 18.3	2.159	3.010	11.4	21.7

452699 2005 YU_{64} 1 29.9 236°.55 2°.3/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.34	+19 43.3	1.728	2.523	15.9	21.8
1 2	9 11.28	+20 41.9	1.634	2.513	12.5	21.5
1 12	9 4.26	+21 52.3	1.562	2.502	8.4	21.2
1 22	8 54.84	+23 8.4	1.516	2.491	4.0	21.0
2 1	8 44.00	+24 22.0	1.499	2.479	2.9	20.9
2 11	8 33.16	+25 25.0	1.511	2.467	7.2	21.1
2 21	8 23.72	+26 12.4	1.549	2.454	11.7	21.3
3 2	8 16.80	+26 42.2	1.610	2.441	15.7	21.5

233007 2005 EE_{206} 1 29.9 318°.31 0°.6/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.33	+18 14.8	2.014	2.804	14.2	20.3
1 2	9 7.55	+18 27.5	1.920	2.795	11.1	20.0
1 12	9 1.39	+18 47.9	1.848	2.786	7.4	19.8
1 22	8 53.39	+19 12.8	1.802	2.778	3.3	19.5
2 1	8 44.42	+19 38.1	1.786	2.770	1.2	19.3
2 11	8 35.56	+19 59.6	1.798	2.762	5.4	19.6
2 21	8 27.88	+20 14.4	1.837	2.754	9.4	19.8
3 2	8 22.21	+20 20.9	1.901	2.747	13.0	20.1

82968 2001 QF_{133} 1 29.9 137°.75 5°.2/ 2.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.06	+ 0 8.2	2.222	2.937	15.2	20.5
1 2	9 7.65	+ 0 2.9	2.136	2.948	12.7	20.3
1 12	9 1.20	+ 0 16.2	2.071	2.959	9.8	20.2
1 22	8 53.22	+ 0 48.5	2.031	2.969	7.0	20.0
2 1	8 44.48	+ 1 37.9	2.019	2.978	5.2	19.9
2 11	8 35.92	+ 2 40.5	2.036	2.987	6.1	20.0
2 21	8 28.39	+ 3 50.8	2.082	2.996	8.7	20.2
3 2	8 22.61	+ 5 3.1	2.154	3.003	11.5	20.4

471192 2010 ND_{118} 1 29.9 201°.80 2°.3/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.36	+23 15.3	3.028	3.808	10.1	21.7
1 2	9 6.05	+24 17.8	2.933	3.804	7.8	21.5
1 12	9 0.02	+25 24.8	2.864	3.799	5.3	21.3
1 22	8 52.68	+26 32.1	2.824	3.794	2.9	21.1
2 1	8 44.62	+27 34.9	2.816	3.789	2.7	21.1
2 11	8 36.59	+28 29.2	2.840	3.784	5.0	21.3
2 21	8 29.32	+29 12.5	2.893	3.778	7.6	21.4
3 2	8 23.42	+29 43.5	2.972	3.771	10.0	21.6

421669 2014 OA_{377} 1 29.9 132°.59 2°.2/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.22	+22 15.4	1.832	2.622	15.4	21.5
1 2	9 13.01	+22 41.2	1.755	2.631	11.9	21.2
1 12	9 5.04	+23 12.4	1.701	2.639	8.0	21.0
1 22	8 55.02	+23 43.5	1.674	2.647	3.8	20.8
2 1	8 44.01	+24 8.8	1.675	2.655	2.7	20.7
2 11	8 33.37	+24 23.9	1.705	2.662	6.5	21.0
2 21	8 24.28	+24 27.0	1.763	2.669	10.5	21.2
3 2	8 17.66	+24 18.4	1.845	2.676	14.0	21.5

304819 2007 QC_{11} 1 29.9 107°.27 1°.4/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.58	+11 25.8	1.797	2.568	16.4	21.5
1 2	9 10.80	+11 51.7	1.726	2.587	12.9	21.3
1 12	9 3.49	+12 32.6	1.676	2.606	8.8	21.1
1 22	8 54.29	+13 25.0	1.653	2.624	4.4	20.9
2 1	8 44.23	+14 23.5	1.658	2.642	1.5	20.7
2 11	8 34.50	+15 22.2	1.693	2.659	5.4	21.0
2 21	8 26.22	+16 15.9	1.755	2.675	9.6	21.3
3 2	8 20.21	+17 0.9	1.843	2.692	13.2	21.5

91432 1999 RF_{1} 1 29.9 39°.19 0°.2/29.8 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.01	+15 37.0	1.895	2.683	15.0	19.5
1 2	9 7.35	+16 11.2	1.812	2.686	11.7	19.3
1 12	9 1.27	+16 57.3	1.751	2.689	7.8	19.0
1 22	8 53.35	+17 51.1	1.717	2.692	3.5	18.8
2 1	8 44.47	+18 47.1	1.711	2.695	1.0	18.6
2 11	8 35.77	+19 39.7	1.734	2.698	5.5	18.9
2 21	8 28.32	+20 24.3	1.784	2.702	9.6	19.1
3 2	8 22.97	+20 58.1	1.859	2.705	13.2	19.4

418412 2008 LP_{5} 1 29.9 210°.06 1°.5/31.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.15	+ 9 56.0	2.183	2.943	14.1	22.0
1 2	9 7.18	+10 31.1	2.085	2.939	11.3	21.8
1 12	9 1.05	+11 21.2	2.009	2.935	7.8	21.6
1 22	8 53.24	+12 24.0	1.961	2.930	4.1	21.4
2 1	8 44.49	+13 34.9	1.942	2.925	1.5	21.2
2 11	8 35.80	+14 48.3	1.954	2.920	4.8	21.4
2 21	8 28.09	+15 58.8	1.994	2.914	8.6	21.6
3 2	8 22.18	+17 2.0	2.061	2.908	12.1	21.8

77757 2001 PN_{29} 1 29.9 221°.92 1°.0/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.75	+13 53.8	2.548	3.312	12.3	19.9
1 2	9 7.27	+13 52.4	2.449	3.307	9.7	19.7
1 12	9 0.90	+13 58.9	2.373	3.301	6.6	19.5
1 22	8 53.10	+14 11.7	2.324	3.296	3.3	19.2
2 1	8 44.55	+14 28.4	2.306	3.290	1.2	19.1
2 11	8 36.10	+14 46.3	2.318	3.284	4.3	19.3
2 21	8 28.55	+15 2.7	2.360	3.277	7.6	19.5
3 2	8 22.58	+15 15.8	2.428	3.271	10.6	19.7

508337 2015 PH_{80} 1 29.9 256°.01 0°.1/29.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.26	+16 47.9	3.380	4.147	9.4	22.3
1 2	9 3.38	+17 2.6	3.274	4.137	7.3	22.1
1 12	8 58.10	+17 22.6	3.193	4.126	4.9	21.9
1 22	8 51.78	+17 45.9	3.142	4.116	2.2	21.7
2 1	8 44.91	+18 10.4	3.121	4.105	0.6	21.6
2 11	8 38.09	+18 33.6	3.131	4.094	3.4	21.8
2 21	8 31.89	+18 53.5	3.171	4.083	6.1	21.9
3 2	8 26.82	+19 8.8	3.239	4.072	8.5	22.1

237716 2001 UX_{228} 1 29.9 333°.28 0°.9/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.29	+12 20.5	1.317	2.123	19.4	20.2
1 2	9 7.92	+12 52.8	1.234	2.116	15.4	19.9
1 12	9 2.31	+13 46.0	1.170	2.110	10.6	19.6
1 22	8 54.04	+14 56.5	1.130	2.104	5.1	19.3
2 1	8 44.26	+16 16.8	1.114	2.099	1.3	19.0
2 11	8 34.60	+17 37.4	1.125	2.094	7.0	19.4
2 21	8 26.61	+18 49.5	1.161	2.090	12.5	19.7
3 2	8 21.53	+19 47.4	1.218	2.087	17.2	19.9

281685 2008 WW_{22} 1 29.9 68°.42 5°.6/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.54	+31 51.8	2.104	2.902	13.4	20.7
1 2	9 10.12	+32 58.3	2.032	2.907	10.6	20.5
1 12	9 3.12	+34 3.8	1.984	2.911	7.8	20.4
1 22	8 54.17	+35 0.9	1.963	2.916	5.9	20.3
2 1	8 44.26	+35 42.7	1.970	2.921	6.1	20.3
2 11	8 34.63	+36 4.9	2.005	2.926	8.4	20.4
2 21	8 26.40	+36 6.8	2.066	2.931	11.2	20.6
3 2	8 20.45	+35 50.1	2.149	2.936	13.8	20.8

174929 2004 CZ_{50} 1 29.9 138°.20 1°.7/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 19.87	+22 28.9	2.211	2.986	13.5	19.8
1 2	9 13.73	+22 39.6	2.132	2.999	10.5	19.6
1 12	9 5.23	+22 53.5	2.077	3.012	7.0	19.4
1 22	8 55.03	+23 6.4	2.050	3.023	3.3	19.2
2 1	8 44.07	+23 14.4	2.053	3.034	2.1	19.1
2 11	8 33.46	+23 14.5	2.088	3.045	5.5	19.4
2 21	8 24.23	+23 5.8	2.151	3.055	9.0	19.6
3 2	8 17.11	+22 48.6	2.241	3.064	12.1	19.8

118694 2000 OG_{42} 1 29.9 149°.61 2°.5/31.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.78	+ 8 10.0	2.437	3.180	13.3	20.7
1 2	9 8.04	+ 8 14.6	2.348	3.190	10.7	20.5
1 12	9 1.38	+ 8 31.7	2.283	3.198	7.6	20.4
1 22	8 53.30	+ 8 59.9	2.245	3.207	4.4	20.2
2 1	8 44.52	+ 9 36.7	2.236	3.214	2.5	20.1
2 11	8 35.90	+10 18.5	2.258	3.222	4.6	20.2
2 21	8 28.25	+11 1.6	2.310	3.228	7.7	20.4
3 2	8 22.24	+11 42.6	2.389	3.234	10.7	20.6

495464 2014 TK_{63} 1 29.9 154°.73 2°.1/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.62	+11 14.6	2.222	2.977	14.1	21.2
1 2	9 10.43	+11 3.5	2.134	2.984	11.2	21.0
1 12	9 3.06	+11 2.7	2.068	2.991	7.9	20.8
1 22	8 54.08	+11 11.1	2.030	2.997	4.3	20.6
2 1	8 44.31	+11 26.3	2.021	3.002	2.1	20.5
2 11	8 34.74	+11 45.3	2.043	3.007	4.9	20.7
2 21	8 26.30	+12 5.1	2.094	3.012	8.4	20.9
3 2	8 19.75	+12 23.2	2.171	3.016	11.6	21.1

372816 2010 TG_{151} 1 29.9 80°.26 14°.2/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.82	−20 23.7	1.948	2.543	20.3	20.2
1 2	9 8.01	−22 0.9	1.876	2.552	18.8	20.1
1 12	9 1.75	−23 9.3	1.817	2.561	17.1	19.9
1 22	8 53.59	−23 42.7	1.776	2.571	15.6	19.9
2 1	8 44.44	−23 36.8	1.755	2.580	14.5	19.8
2 11	8 35.42	−22 51.9	1.754	2.589	14.2	19.8
2 21	8 27.62	−21 33.1	1.776	2.599	14.7	19.8
3 2	8 21.94	−19 49.1	1.818	2.608	15.8	19.9

418358 2008 GA_{102} 1 29.9 251°.77 3°.9/27.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.82	+25 50.6	2.083	2.877	13.6	21.8
1 2	9 10.47	+26 49.2	1.985	2.862	10.7	21.5
1 12	9 3.51	+27 52.7	1.912	2.848	7.4	21.3
1 22	8 54.45	+28 54.8	1.865	2.833	4.5	21.1
2 1	8 44.19	+29 48.2	1.848	2.817	4.4	21.1
2 11	8 33.95	+30 27.3	1.859	2.801	7.4	21.2
2 21	8 24.91	+30 49.1	1.898	2.785	10.9	21.4
3 2	8 18.06	+30 53.6	1.961	2.769	14.1	21.6

440403 2005 ND_{45} 1 29.9 122°.69 2°.1/31.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.68	+10 1.3	1.702	2.467	17.3	22.5
1 2	9 12.59	+10 17.4	1.629	2.485	13.8	22.3
1 12	9 4.77	+10 50.0	1.577	2.502	9.6	22.1
1 22	8 54.92	+11 36.3	1.550	2.519	5.0	21.9
2 1	8 44.11	+12 31.4	1.552	2.534	2.1	21.7
2 11	8 33.65	+13 29.0	1.583	2.549	5.7	22.0
2 21	8 24.74	+14 23.5	1.642	2.563	10.1	22.3
3 2	8 18.27	+15 10.7	1.726	2.577	13.9	22.5

497726 2006 SN_{167} 1 29.9 99°.10 3°.3/ 1.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.99	+ 5 49.2	2.493	3.233	13.1	21.7
1 2	9 5.09	+ 5 45.8	2.403	3.239	10.6	21.5
1 12	8 59.42	+ 5 55.7	2.336	3.245	7.8	21.4
1 22	8 52.42	+ 6 18.3	2.295	3.251	5.0	21.2
2 1	8 44.77	+ 6 51.5	2.284	3.257	3.3	21.1
2 11	8 37.25	+ 7 32.3	2.302	3.262	4.7	21.2
2 21	8 30.62	+ 8 16.8	2.348	3.268	7.5	21.4
3 2	8 25.49	+ 9 1.3	2.422	3.273	10.3	21.6

415269 2013 CO_{165} 1 29.9 243°.99 0°.7/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.66	+17 49.5	1.831	2.618	15.5	21.9
1 2	9 11.29	+18 12.1	1.732	2.606	12.2	21.6
1 12	9 4.14	+18 44.6	1.656	2.593	8.2	21.3
1 22	8 54.76	+19 23.2	1.605	2.580	3.7	21.0
2 1	8 44.11	+20 2.3	1.583	2.567	1.4	20.8
2 11	8 33.50	+20 36.5	1.590	2.553	6.1	21.1
2 21	8 24.19	+21 1.9	1.625	2.539	10.6	21.3
3 2	8 17.24	+21 16.6	1.683	2.525	14.6	21.6

359207 2009 DC_{72} 1 29.9 261°.75 3°.9/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.19	+25 22.1	1.665	2.468	16.1	20.8
1 2	9 12.82	+26 1.0	1.578	2.460	12.7	20.6
1 12	9 5.32	+26 44.5	1.513	2.453	8.7	20.3
1 22	8 55.32	+27 25.6	1.474	2.445	4.9	20.1
2 1	8 43.98	+27 56.8	1.462	2.437	4.4	20.0
2 11	8 32.84	+28 12.4	1.479	2.429	8.0	20.2
2 21	8 23.35	+28 10.3	1.520	2.421	12.2	20.5
3 2	8 16.62	+27 51.7	1.585	2.413	16.0	20.7

166140 2002 DR_{10} 1 29.9 266°.12 0°.5/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.20	+14 44.3	1.701	2.487	16.5	20.5
1 2	9 10.36	+14 58.5	1.600	2.472	13.1	20.3
1 12	9 3.65	+15 25.8	1.522	2.457	9.0	20.0
1 22	8 54.59	+16 3.2	1.468	2.442	4.2	19.7
2 1	8 44.16	+16 45.9	1.442	2.426	1.1	19.4
2 11	8 33.71	+17 28.0	1.444	2.410	6.1	19.7
2 21	8 24.58	+18 4.6	1.473	2.394	11.0	19.9
3 2	8 17.89	+18 32.4	1.525	2.378	15.3	20.1

410441 2008 CP_{12} 1 29.9 30°.39 0°.8/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.13	+15 55.2	1.508	2.312	17.5	21.2
1 2	9 8.06	+16 43.8	1.434	2.317	13.6	21.0
1 12	9 2.07	+17 47.6	1.381	2.323	9.1	20.7
1 22	8 53.81	+19 0.7	1.353	2.330	4.0	20.5
2 1	8 44.40	+20 15.4	1.352	2.336	1.6	20.3
2 11	8 35.26	+21 23.3	1.379	2.343	6.6	20.6
2 21	8 27.71	+22 18.5	1.431	2.351	11.3	20.9
3 2	8 22.75	+22 58.2	1.506	2.359	15.4	21.2

70032 1999 CZ_{13} 1 29.9 329°.43 5°.5/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.56	+30 16.6	2.009	2.818	13.5	17.7
1 2	9 6.65	+31 19.1	1.909	2.792	10.8	17.5
1 12	9 1.10	+32 23.8	1.833	2.766	7.9	17.3
1 22	8 53.43	+33 23.7	1.782	2.741	5.7	17.1
2 1	8 44.50	+34 11.1	1.759	2.716	6.1	17.1
2 11	8 35.55	+34 40.2	1.763	2.693	8.7	17.2
2 21	8 27.82	+34 48.6	1.792	2.670	12.0	17.3
3 2	8 22.33	+34 36.8	1.844	2.648	15.1	17.5

214929 2007 VF_{27} 1 29.9 354°.38 3°.4/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.26	+22 1.4	1.541	2.351	16.8	20.2
1 2	9 9.88	+23 5.5	1.463	2.350	13.1	19.9
1 12	9 3.41	+24 19.7	1.407	2.350	8.8	19.7
1 22	8 54.48	+25 36.1	1.376	2.349	4.6	19.4
2 1	8 44.23	+26 45.5	1.372	2.349	4.1	19.4
2 11	8 34.20	+27 40.0	1.395	2.348	8.0	19.6
2 21	8 25.81	+28 15.3	1.444	2.349	12.4	19.9
3 2	8 20.17	+28 30.7	1.514	2.349	16.3	20.1

289369 2005 CO_{8} 1 29.9 35°.47 1°.2/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.58	+18 14.5	1.232	2.051	19.7	20.6
1 2	9 10.40	+18 40.6	1.173	2.064	15.3	20.4
1 12	9 3.79	+19 19.2	1.134	2.079	10.2	20.1
1 22	8 54.60	+20 4.1	1.117	2.094	4.5	19.8
2 1	8 44.24	+20 47.6	1.126	2.110	2.0	19.7
2 11	8 34.46	+21 22.4	1.161	2.126	7.4	20.1
2 21	8 26.77	+21 44.6	1.219	2.144	12.5	20.4
3 2	8 22.16	+21 52.8	1.299	2.162	16.8	20.7

131948 2002 CS_{31} 1 29.9 260°.46 3°.2/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.48	+23 48.8	1.709	2.508	15.9	20.0
1 2	9 13.06	+24 23.6	1.613	2.493	12.5	19.8
1 12	9 5.54	+25 4.6	1.539	2.478	8.5	19.5
1 22	8 55.47	+25 45.3	1.490	2.463	4.5	19.2
2 1	8 43.96	+26 18.6	1.470	2.447	3.7	19.1
2 11	8 32.51	+26 38.4	1.478	2.432	7.6	19.3
2 21	8 22.58	+26 42.2	1.512	2.415	12.0	19.5
3 2	8 15.34	+26 30.2	1.568	2.399	16.0	19.7

183580 2003 SO_{33} 1 29.9 102°.65 0°.1/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.57	+15 11.0	1.794	2.574	16.0	20.9
1 2	9 11.60	+15 38.6	1.726	2.594	12.5	20.7
1 12	9 4.04	+16 17.7	1.679	2.614	8.4	20.5
1 22	8 54.58	+17 4.1	1.658	2.633	3.8	20.3
2 1	8 44.25	+17 52.3	1.667	2.652	1.0	20.1
2 11	8 34.32	+18 36.8	1.705	2.670	5.6	20.4
2 21	8 25.89	+19 13.5	1.771	2.688	9.7	20.7
3 2	8 19.80	+19 40.3	1.861	2.705	13.3	21.0

351207 2004 HL_{30} 1 29.9 255°.60 4°.4/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.38	+24 48.1	1.515	2.323	17.2	20.9
1 2	9 13.38	+25 43.5	1.428	2.314	13.5	20.7
1 12	9 5.96	+26 46.4	1.363	2.304	9.3	20.4
1 22	8 55.72	+27 48.4	1.323	2.293	5.3	20.1
2 1	8 43.90	+28 40.1	1.309	2.283	5.0	20.1
2 11	8 32.19	+29 13.7	1.323	2.272	8.9	20.3
2 21	8 22.25	+29 26.1	1.361	2.262	13.4	20.5
3 2	8 15.34	+29 18.1	1.422	2.251	17.5	20.7

219694 2001 XM_{11} 1 29.9 352°.96 2°.1/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.47	+23 39.0	1.616	2.418	16.6	19.5
1 2	9 12.89	+23 34.1	1.533	2.415	13.0	19.3
1 12	9 5.24	+23 31.7	1.472	2.413	8.7	19.0
1 22	8 55.23	+23 27.3	1.436	2.411	4.2	18.8
2 1	8 44.07	+23 16.3	1.428	2.410	2.6	18.7
2 11	8 33.28	+22 55.7	1.448	2.409	6.9	18.9
2 21	8 24.23	+22 24.9	1.494	2.408	11.4	19.2
3 2	8 17.93	+21 45.3	1.563	2.409	15.3	19.4

192095 2006 BJ_{207} 1 29.9 169°.86 0°.7/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.86	+14 28.3	2.262	3.032	13.4	20.9
1 2	9 8.36	+14 37.6	2.172	3.034	10.6	20.7
1 12	9 1.74	+14 56.1	2.105	3.036	7.2	20.5
1 22	8 53.54	+15 21.4	2.065	3.038	3.4	20.2
2 1	8 44.53	+15 50.1	2.054	3.039	1.0	20.0
2 11	8 35.68	+16 18.7	2.074	3.040	4.7	20.3
2 21	8 27.88	+16 44.0	2.123	3.040	8.3	20.5
3 2	8 21.90	+17 3.8	2.197	3.041	11.6	20.7

199139 2005 YN_{116} 1 29.9 60°.61 3°.1/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.23	+19 59.2	1.370	2.183	18.4	20.2
1 2	9 10.83	+21 12.3	1.304	2.193	14.3	20.0
1 12	9 4.11	+22 38.3	1.258	2.203	9.5	19.7
1 22	8 54.80	+24 8.5	1.238	2.212	4.6	19.5
2 1	8 44.19	+25 32.1	1.244	2.223	3.8	19.5
2 11	8 33.95	+26 39.9	1.276	2.233	8.2	19.7
2 21	8 25.61	+27 26.8	1.334	2.243	12.9	20.0
3 2	8 20.26	+27 52.2	1.413	2.254	16.9	20.3

194510 2001 WV_{100} 1 29.9 130°.92 2°.0/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.20	+20 16.4	1.731	2.522	16.1	21.7
1 2	9 13.16	+20 56.8	1.658	2.534	12.5	21.5
1 12	9 5.26	+21 45.5	1.607	2.545	8.3	21.2
1 22	8 55.20	+22 36.6	1.581	2.556	3.9	21.0
2 1	8 44.09	+23 23.2	1.585	2.566	2.5	20.9
2 11	8 33.34	+23 59.6	1.618	2.576	6.6	21.2
2 21	8 24.21	+24 22.7	1.678	2.585	10.8	21.5
3 2	8 17.63	+24 32.0	1.761	2.594	14.4	21.7

155661 2000 HE_{5} 1 29.9 177°.91 10°.9/ 6.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.19	−14 21.8	2.218	2.836	17.6	20.6
1 2	9 10.31	−15 30.5	2.127	2.839	15.9	20.5
1 12	9 3.16	−16 15.9	2.053	2.841	14.0	20.3
1 22	8 54.23	−16 33.0	2.000	2.842	12.3	20.2
2 1	8 44.33	−16 19.2	1.970	2.842	11.1	20.1
2 11	8 34.48	−15 35.1	1.966	2.842	11.0	20.1
2 21	8 25.67	−14 25.3	1.987	2.840	12.1	20.2
3 2	8 18.75	−12 57.1	2.032	2.838	13.8	20.3

53238 1999 CM_{121} 1 29.9 215°.80 8°.8/21.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.55	+35 41.0	1.932	2.729	14.4	18.4
1 2	9 13.41	+38 19.5	1.860	2.726	11.9	18.2
1 12	9 6.00	+40 58.6	1.815	2.724	9.7	18.1
1 22	8 55.80	+43 25.4	1.797	2.721	8.8	18.0
2 1	8 43.87	+45 27.2	1.809	2.718	9.9	18.1
2 11	8 31.78	+46 55.7	1.847	2.714	12.1	18.2
2 21	8 21.17	+47 48.9	1.910	2.711	14.6	18.4
3 2	8 13.40	+48 10.0	1.991	2.707	17.0	18.6

215465 2002 QE_{90} 1 29.9 60°.88 1°.6/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.77	+17 55.8	1.534	2.336	17.3	20.4
1 2	9 9.94	+18 50.9	1.471	2.354	13.4	20.2
1 12	9 3.20	+19 58.1	1.430	2.371	8.8	19.9
1 22	8 54.28	+21 10.7	1.414	2.389	4.0	19.7
2 1	8 44.35	+22 20.4	1.425	2.407	2.3	19.6
2 11	8 34.85	+23 19.9	1.464	2.426	6.8	20.0
2 21	8 27.04	+24 4.5	1.530	2.444	11.2	20.3
3 2	8 21.84	+24 32.8	1.618	2.462	15.0	20.5

64797 2001 XS_{207} 1 29.9 349°.70 1°.9/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.00	+11 32.8	1.461	2.261	18.1	18.9
1 2	9 5.76	+11 41.8	1.377	2.254	14.5	18.7
1 12	9 0.65	+12 8.4	1.312	2.248	10.1	18.4
1 22	8 53.25	+12 50.5	1.271	2.243	5.2	18.1
2 1	8 44.59	+13 43.2	1.256	2.239	2.0	17.9
2 11	8 36.09	+14 39.8	1.267	2.236	6.3	18.1
2 21	8 29.06	+15 33.6	1.303	2.234	11.2	18.4
3 2	8 24.56	+16 19.4	1.361	2.233	15.6	18.7

334602 2002 TK_{310} 1 29.9 99°.87 5°.9/ 4.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.03	− 3 49.8	2.431	3.123	14.6	21.6
1 2	9 5.15	− 3 53.6	2.346	3.136	12.4	21.5
1 12	8 59.48	− 3 37.9	2.282	3.149	9.9	21.3
1 22	8 52.48	− 3 2.1	2.242	3.162	7.5	21.2
2 1	8 44.83	− 2 7.5	2.229	3.174	6.0	21.1
2 11	8 37.34	− 0 57.7	2.245	3.186	6.4	21.2
2 21	8 30.76	+ 0 21.9	2.290	3.198	8.3	21.3
3 2	8 25.73	+ 1 45.4	2.362	3.210	10.7	21.5

378814 2008 SY_{217} 1 29.9 71°.91 1°.7/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.25	+19 23.9	2.089	2.878	13.8	21.1
1 2	9 7.99	+20 19.6	2.023	2.899	10.6	20.9
1 12	9 1.51	+21 23.1	1.981	2.920	7.0	20.7
1 22	8 53.42	+22 28.9	1.967	2.941	3.2	20.5
2 1	8 44.59	+23 31.1	1.982	2.962	2.2	20.5
2 11	8 36.06	+24 24.3	2.026	2.983	5.6	20.8
2 21	8 28.78	+25 5.4	2.099	3.004	9.1	21.0
3 2	8 23.46	+25 33.1	2.197	3.025	12.1	21.2

109300 2001 QK_{128} 1 29.9 27°.55 6°.1/ 1.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.21	+ 5 2.8	1.154	1.949	22.3	17.5
1 2	9 7.61	+ 4 22.7	1.105	1.970	18.2	17.3
1 12	9 1.80	+ 4 8.0	1.073	1.994	13.5	17.1
1 22	8 53.65	+ 4 19.2	1.061	2.019	8.9	17.0
2 1	8 44.54	+ 4 53.4	1.073	2.046	6.1	16.9
2 11	8 36.06	+ 5 43.7	1.110	2.074	8.0	17.1
2 21	8 29.57	+ 6 41.7	1.169	2.102	12.0	17.4
3 2	8 25.95	+ 7 39.4	1.251	2.132	15.9	17.7

9150 Zavolokin 1 29.9 108°.50 2°.9/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.60	+22 28.6	1.916	2.707	14.8	17.9
1 2	9 11.64	+23 27.6	1.849	2.725	11.4	17.7
1 12	9 4.09	+24 32.8	1.805	2.743	7.6	17.5
1 22	8 54.63	+25 37.4	1.788	2.760	3.9	17.3
2 1	8 44.27	+26 34.5	1.800	2.777	3.4	17.3
2 11	8 34.26	+27 18.5	1.842	2.793	6.7	17.6
2 21	8 25.73	+27 47.0	1.912	2.809	10.3	17.8
3 2	8 19.51	+27 59.8	2.005	2.824	13.5	18.0

415398 2013 OW_{8} 1 29.9 257°.30 2°.9/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.12	+ 8 46.7	1.926	2.689	15.7	21.5
1 2	9 8.26	+ 8 42.2	1.827	2.680	12.7	21.3
1 12	9 1.97	+ 8 52.6	1.750	2.671	9.1	21.1
1 22	8 53.76	+ 9 17.0	1.697	2.662	5.3	20.8
2 1	8 44.47	+ 9 52.8	1.673	2.652	2.9	20.6
2 11	8 35.22	+10 35.8	1.678	2.643	5.6	20.8
2 21	8 27.11	+11 21.1	1.710	2.633	9.6	21.0
3 2	8 21.04	+12 4.3	1.767	2.623	13.3	21.2

294664 Trakai 1 29.9 174°.15 1°.2/30.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.37	+13 0.3	2.680	3.441	11.8	21.1
1 2	9 6.09	+13 1.8	2.586	3.442	9.3	21.0
1 12	9 0.06	+13 11.5	2.516	3.443	6.4	20.8
1 22	8 52.74	+13 27.9	2.473	3.443	3.2	20.6
2 1	8 44.77	+13 48.6	2.460	3.444	1.2	20.4
2 11	8 36.92	+14 10.8	2.479	3.444	4.0	20.6
2 21	8 29.92	+14 32.1	2.526	3.444	7.1	20.8
3 2	8 24.39	+14 50.3	2.600	3.444	10.0	21.0

468006 2012 XL_{128} 1 29.9 178°.08 4°.7/ 2.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.04	− 0 32.4	3.089	3.781	11.7	22.2
1 2	9 5.56	− 0 59.3	2.989	3.783	9.9	22.0
1 12	8 59.59	− 1 13.5	2.911	3.784	7.8	21.9
1 22	8 52.50	− 1 14.3	2.860	3.784	5.9	21.7
2 1	8 44.83	− 1 2.0	2.838	3.785	4.8	21.7
2 11	8 37.24	− 0 38.1	2.846	3.785	5.3	21.7
2 21	8 30.33	− 0 5.4	2.883	3.784	7.1	21.8
3 2	8 24.66	+ 0 32.9	2.947	3.783	9.1	21.9

304923 2007 RG_{310} 1 29.9 229°.72 2°.6/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.75	+ 9 49.2	1.955	2.714	15.6	21.8
1 2	9 11.11	+ 9 43.5	1.851	2.702	12.6	21.5
1 12	9 3.92	+ 9 51.5	1.768	2.690	9.0	21.3
1 22	8 54.67	+10 12.1	1.711	2.676	5.1	21.0
2 1	8 44.23	+10 42.8	1.682	2.662	2.6	20.8
2 11	8 33.78	+11 19.5	1.683	2.648	5.6	21.0
2 21	8 24.47	+11 57.8	1.712	2.633	9.8	21.2
3 2	8 17.27	+12 33.7	1.767	2.617	13.6	21.4

418310 2008 FR_{66} 1 29.9 302°.09 3°.8/27.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.06	+24 5.7	1.658	2.467	15.9	20.9
1 2	9 9.82	+24 56.4	1.559	2.445	12.5	20.7
1 12	9 3.51	+25 55.0	1.482	2.423	8.6	20.4
1 22	8 54.64	+26 54.7	1.430	2.401	4.8	20.1
2 1	8 44.22	+27 47.2	1.405	2.380	4.4	20.0
2 11	8 33.75	+28 25.1	1.407	2.358	8.2	20.2
2 21	8 24.71	+28 44.5	1.435	2.337	12.6	20.4
3 2	8 18.32	+28 44.8	1.484	2.317	16.7	20.6

205941 2002 JW_{50} 1 29.9 322°.74 2°.1/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.10	+13 31.5	1.233	2.049	19.9	20.1
1 2	9 7.50	+13 13.9	1.133	2.020	16.1	19.8
1 12	9 2.43	+13 11.5	1.052	1.992	11.3	19.4
1 22	8 54.33	+13 23.5	0.992	1.965	5.9	19.0
2 1	8 44.28	+13 46.7	0.956	1.939	2.3	18.7
2 11	8 33.99	+14 15.5	0.944	1.914	7.6	18.9
2 21	8 25.30	+14 43.8	0.955	1.891	13.6	19.2
3 2	8 19.74	+15 6.7	0.986	1.869	19.1	19.4

95101 2002 AH_{113} 1 29.9 66°.31 1°.2/29.3 17

12 23	9 17.61	+17 18.7	1.366	2.169	19.0	19.8
1 2	9 13.06	+18 3.3	1.314	2.196	14.7	19.6
1 12	9 5.30	+19 0.5	1.282	2.223	9.7	19.4
1 22	8 55.21	+20 3.4	1.274	2.250	4.3	19.2
2 1	8 44.17	+21 3.7	1.294	2.277	1.9	19.1
2 11	8 33.79	+21 53.9	1.341	2.304	7.0	19.5
2 21	8 25.44	+22 29.9	1.414	2.331	11.6	19.8
3 2	8 20.04	+22 50.7	1.509	2.358	15.6	20.1

170471 2003 UJ_{237} 1 29.9 206°.88 4°.0/ 1.3 18

12 23	9 14.96	+ 5 49.7	2.110	2.849	15.2	21.1
1 2	9 10.20	+ 5 31.0	2.010	2.844	12.5	20.9
1 12	9 3.13	+ 5 26.9	1.930	2.838	9.3	20.7
1 22	8 54.26	+ 5 37.5	1.877	2.831	6.0	20.5
2 1	8 44.38	+ 6 1.4	1.852	2.824	4.0	20.4
2 11	8 34.55	+ 6 35.6	1.857	2.816	5.8	20.5
2 21	8 25.79	+ 7 15.7	1.890	2.808	9.2	20.6
3 2	8 18.95	+ 7 57.4	1.949	2.798	12.6	20.8

83056 2001 QT_{202} 1 29.9 36°.59 3°.6/27.8 18

12 23	9 14.71	+27 16.8	2.092	2.887	13.5	19.3
1 2	9 10.09	+27 45.9	2.014	2.891	10.6	19.1
1 12	9 3.03	+28 15.8	1.960	2.896	7.3	18.9
1 22	8 54.16	+28 41.2	1.932	2.900	4.3	18.7
2 1	8 44.44	+28 57.0	1.934	2.905	4.0	18.7
2 11	8 35.03	+28 59.8	1.964	2.910	6.7	18.9
2 21	8 26.99	+28 48.7	2.022	2.916	10.0	19.1
3 2	8 21.11	+28 24.8	2.103	2.921	13.0	19.3

92158 1999 XW_{141} 1 29.9 29°.77 17°.1/27.1 16

12 23	10 3.59	+12 6.9	0.837	1.593	31.6	17.5
1 2	9 51.47	+ 6 2.4	0.764	1.601	26.9	17.1
1 12	9 32.58	− 0 30.4	0.714	1.611	21.7	16.9
1 22	9 8.03	− 6 58.5	0.693	1.622	17.7	16.7
2 1	8 40.79	−12 33.6	0.706	1.634	17.6	16.7
2 11	8 15.12	−16 40.3	0.748	1.648	21.0	17.0
2 21	7 54.47	−19 15.1	0.814	1.662	25.2	17.3
3 2	7 40.50	−20 37.6	0.897	1.678	28.8	17.7

270730 2002 QE_{130} 1 29.9 170°.85 0°.8/30.5 17

12 23	9 11.56	+13 44.5	2.619	3.381	12.0	22.1
1 2	9 7.06	+13 58.6	2.526	3.384	9.4	21.9
1 12	9 0.74	+14 21.4	2.458	3.386	6.4	21.7
1 22	8 53.08	+14 50.6	2.417	3.388	3.1	21.5
2 1	8 44.72	+15 23.4	2.406	3.390	0.9	21.3
2 11	8 36.49	+15 56.3	2.426	3.391	4.1	21.5
2 21	8 29.15	+16 26.5	2.476	3.392	7.4	21.8
3 2	8 23.34	+16 51.8	2.553	3.393	10.3	21.9

401021 2011 SF_{40} 1 29.9 120°.63 2°.6/31.6 18

12 23	9 14.73	+ 8 26.1	1.755	2.519	17.0	21.5
1 2	9 10.31	+ 8 42.0	1.678	2.532	13.6	21.3
1 12	9 3.30	+ 9 15.6	1.621	2.544	9.6	21.1
1 22	8 54.33	+10 4.5	1.590	2.556	5.3	20.9
2 1	8 44.40	+11 4.4	1.587	2.568	2.6	20.7
2 11	8 34.74	+12 8.9	1.613	2.579	5.6	20.9
2 21	8 26.47	+13 12.0	1.666	2.589	9.8	21.2
3 2	8 20.49	+14 8.8	1.745	2.599	13.5	21.5

92422 2000 JO_{48} 1 29.9 126°.48 4°.1/27.6 18

12 23	9 19.99	+25 40.7	1.731	2.527	15.9	19.9
1 2	9 14.67	+26 37.7	1.663	2.540	12.4	19.7
1 12	9 6.33	+27 38.6	1.617	2.553	8.5	19.5
1 22	8 55.72	+28 35.5	1.597	2.566	4.9	19.3
2 1	8 44.05	+29 20.5	1.607	2.578	4.6	19.3
2 11	8 32.80	+29 48.2	1.644	2.589	7.9	19.5
2 21	8 23.30	+29 57.0	1.708	2.600	11.6	19.7
3 2	8 16.52	+29 48.5	1.795	2.610	15.0	20.0

429871 2012 SX_{24} 1 29.9 17°.37 3°.9/27.4 18

12 23	9 13.85	+28 18.8	2.178	2.973	13.1	20.5
1 2	9 9.40	+28 54.7	2.098	2.975	10.2	20.3
1 12	9 2.57	+29 31.0	2.042	2.976	7.1	20.1
1 22	8 53.97	+30 2.2	2.013	2.978	4.5	20.0
2 1	8 44.51	+30 23.1	2.013	2.980	4.3	20.0
2 11	8 35.32	+30 30.2	2.041	2.983	6.9	20.1
2 21	8 27.42	+30 22.4	2.097	2.985	10.0	20.3
3 2	8 21.61	+30 0.9	2.177	2.988	12.8	20.5

48299 2002 LE_{35} 1 29.9 88°.23 3°.9/ 1.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.97	+ 7 25.3	1.821	2.573	16.8	18.9
1 2	9 11.75	+ 6 57.2	1.752	2.596	13.6	18.8
1 12	9 4.07	+ 6 44.3	1.704	2.618	9.9	18.6
1 22	8 54.60	+ 6 46.1	1.682	2.640	6.1	18.4
2 1	8 44.37	+ 7 0.6	1.687	2.662	3.9	18.3
2 11	8 34.54	+ 7 24.4	1.722	2.683	6.0	18.5
2 21	8 26.17	+ 7 53.2	1.784	2.704	9.5	18.7
3 2	8 20.04	+ 8 22.9	1.872	2.725	12.8	19.0

371665 2007 CL_{47} 1 29.9 313°.41 0°.7/30.3 17

12 23	9 11.28	+15 9.1	1.655	2.450	16.5	20.8
1 2	9 8.18	+15 12.0	1.554	2.431	13.1	20.6
1 12	9 2.26	+15 26.9	1.475	2.412	9.0	20.3
1 22	8 54.04	+15 51.2	1.420	2.394	4.3	19.9
2 1	8 44.46	+16 20.8	1.392	2.376	1.1	19.7
2 11	8 34.87	+16 50.7	1.391	2.359	6.1	20.0
2 21	8 26.59	+17 16.3	1.417	2.342	11.0	20.2
3 2	8 20.73	+17 34.6	1.465	2.326	15.3	20.4

258287 2001 UD_{54} 1 29.9 33°.45 0°.5/30.2 18

12 23	9 12.35	+14 44.7	1.252	2.065	19.9	20.4
1 2	9 9.16	+15 2.2	1.203	2.089	15.5	20.1
1 12	9 2.79	+15 35.1	1.172	2.114	10.3	19.9
1 22	8 54.12	+16 18.5	1.165	2.140	4.7	19.7
2 1	8 44.52	+17 5.4	1.183	2.167	1.1	19.5
2 11	8 35.59	+17 48.7	1.227	2.195	6.6	19.9
2 21	8 28.65	+18 23.5	1.296	2.224	11.5	20.3
3 2	8 24.57	+18 47.0	1.386	2.254	15.6	20.6

492696 2014 PZ_{59} 1 29.9 158°.07 2°.3/30.9 18

12 23	9 22.13	+12 30.9	2.214	2.959	14.4	21.5
1 2	9 15.45	+11 53.2	2.123	2.967	11.5	21.3
1 12	9 6.43	+11 23.1	2.055	2.975	8.1	21.1
1 22	8 55.68	+10 59.9	2.016	2.981	4.4	20.9
2 1	8 44.10	+10 42.6	2.007	2.987	2.4	20.8
2 11	8 32.79	+10 29.7	2.031	2.993	5.1	20.9
2 21	8 22.75	+10 19.5	2.085	2.997	8.7	21.2
3 2	8 14.78	+10 10.4	2.165	3.001	12.0	21.4

81655 2000 HS_{86} 1 29.9 89°.32 3°.9/ 1.9 18 R

12 23	9 9.72	+ 4 1.1	2.316	3.052	14.1	19.3
1 2	9 5.81	+ 3 56.9	2.231	3.062	11.6	19.2
1 12	8 59.99	+ 4 8.2	2.169	3.072	8.6	19.0
1 22	8 52.77	+ 4 34.3	2.131	3.082	5.7	18.8
2 1	8 44.87	+ 5 13.5	2.123	3.092	3.9	18.7
2 11	8 37.13	+ 6 2.0	2.143	3.102	5.2	18.8
2 21	8 30.36	+ 6 55.4	2.192	3.112	8.0	19.0
3 2	8 25.21	+ 7 49.3	2.268	3.122	10.9	19.2

494170 2016 GJ_{133} 1 29.9 232°.03 0°.4/29.7 18

12 23	9 11.49	+16 44.5	2.113	2.896	13.8	21.6
1 2	9 7.55	+17 13.0	2.023	2.895	10.8	21.4
1 12	9 1.37	+17 51.1	1.957	2.894	7.2	21.2
1 22	8 53.47	+18 35.1	1.918	2.893	3.2	20.9
2 1	8 44.67	+19 20.3	1.907	2.892	1.1	20.8
2 11	8 36.01	+20 1.9	1.927	2.890	5.1	21.1
2 21	8 28.47	+20 36.3	1.974	2.889	9.0	21.3
3 2	8 22.83	+21 1.4	2.047	2.888	12.4	21.5

262332 2006 TP_{37} 1 29.9 283°.66 2°.7/31.4 18

12 23	9 12.35	+10 4.8	1.775	2.548	16.4	21.0
1 2	9 8.77	+ 9 57.6	1.672	2.532	13.3	20.7
1 12	9 2.54	+10 5.1	1.590	2.516	9.5	20.4
1 22	8 54.14	+10 26.4	1.532	2.499	5.3	20.2
2 1	8 44.48	+10 59.1	1.502	2.483	2.7	19.9
2 11	8 34.79	+11 38.6	1.500	2.467	5.9	20.1
2 21	8 26.28	+12 19.8	1.525	2.450	10.4	20.3
3 2	8 20.01	+12 58.4	1.574	2.434	14.5	20.5

488490 2000 AF_{205} 1 29.9 112°.19 9°.6/ 1.2 18

12 23	10 39.20	− 1 58.2	0.239	1.082	59.7	21.0
1 2	10 19.11	− 1 30.2	0.230	1.125	47.3	20.6
1 12	9 50.27	+ 0 3.1	0.225	1.164	33.2	20.3
1 22	9 14.93	+ 2 43.0	0.229	1.199	18.6	19.9
2 1	8 39.64	+ 5 59.9	0.249	1.230	9.6	19.9
2 11	8 11.75	+ 9 7.6	0.284	1.256	16.4	20.4
2 21	7 54.38	+11 39.3	0.333	1.278	25.8	21.1
3 2	7 47.10	+13 30.8	0.393	1.296	33.3	21.7

473970 2016 EN_{191} 1 29.9 209°.73 5°.8/26.8 18

12 23	9 24.71	+35 58.6	2.358	3.130	12.9	20.8
1 2	9 17.78	+36 25.8	2.270	3.125	10.4	20.6
1 12	9 8.15	+36 47.0	2.206	3.120	7.9	20.4
1 22	8 56.50	+36 55.9	2.169	3.115	6.0	20.3
2 1	8 43.92	+36 47.0	2.163	3.108	6.1	20.3
2 11	8 31.73	+36 18.0	2.186	3.102	8.1	20.4
2 21	8 21.10	+35 30.1	2.237	3.095	10.7	20.6
3 2	8 12.92	+34 27.0	2.312	3.088	13.3	20.7

236679 2006 QB_{60} 1 29.9 190°.65 4°.2/26.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.02	+33 21.6	3.150	3.924	9.9	21.7
1 2	9 10.41	+34 1.2	3.063	3.922	7.9	21.6
1 12	9 2.93	+34 38.3	3.001	3.920	5.8	21.4
1 22	8 54.08	+35 8.2	2.968	3.917	4.4	21.3
2 1	8 44.55	+35 27.0	2.966	3.914	4.5	21.3
2 11	8 35.19	+35 32.3	2.994	3.910	6.1	21.4
2 21	8 26.78	+35 23.5	3.051	3.906	8.2	21.6
3 2	8 19.97	+35 1.8	3.133	3.901	10.3	21.7

114432 2003 AN_{6} 1 29.9 38°.55 2°.5/30.9 18

12 23	9 16.61	+13 33.0	1.181	1.987	21.2	18.9
1 2	9 12.84	+12 59.2	1.118	1.999	16.8	18.6
1 12	9 5.50	+12 40.1	1.074	2.011	11.7	18.4
1 22	8 55.47	+12 34.0	1.052	2.024	6.0	18.1
2 1	8 44.21	+12 37.9	1.055	2.038	2.6	17.9
2 11	8 33.54	+12 47.1	1.083	2.052	7.2	18.3
2 21	8 25.05	+12 57.2	1.135	2.067	12.4	18.6
3 2	8 19.78	+13 4.9	1.209	2.082	17.0	18.9

181857 1998 XH_{6} 1 29.9 82°.77 0°.5/30.2 18

12 23	9 13.99	+14 33.0	1.734	2.520	16.3	21.1
1 2	9 9.82	+14 53.5	1.660	2.531	12.8	20.9
1 12	9 3.02	+15 26.4	1.607	2.542	8.6	20.6
1 22	8 54.25	+16 8.2	1.580	2.554	4.0	20.4
2 1	8 44.52	+16 53.5	1.581	2.565	1.0	20.2
2 11	8 35.11	+17 36.9	1.610	2.576	5.6	20.5
2 21	8 27.16	+18 13.8	1.667	2.588	9.9	20.8
3 2	8 21.52	+18 41.7	1.748	2.599	13.7	21.1

108224 2001 HB_{35} 1 29.9 170°.36 4°.9/26.9 18

12 23	9 20.45	+27 22.5	1.812	2.605	15.4	20.1
1 2	9 15.15	+28 30.9	1.734	2.610	12.1	19.9
1 12	9 6.78	+29 42.9	1.679	2.613	8.5	19.7
1 22	8 56.03	+30 49.9	1.652	2.616	5.4	19.5
2 1	8 44.05	+31 43.4	1.653	2.618	5.4	19.5
2 11	8 32.32	+32 17.3	1.682	2.619	8.5	19.7
2 21	8 22.25	+32 29.8	1.738	2.620	12.0	19.9
3 2	8 14.88	+32 22.6	1.817	2.620	15.3	20.1

98547 2000 VE_{56} 1 29.9 35°.59 2°.2/30.9 18

12 23	9 14.39	+13 4.1	1.270	2.074	20.1	19.1
1 2	9 10.89	+12 45.5	1.207	2.086	16.0	18.9
1 12	9 4.09	+12 42.2	1.162	2.099	11.0	18.6
1 22	8 54.81	+12 52.2	1.140	2.112	5.6	18.4
2 1	8 44.39	+13 11.4	1.143	2.126	2.3	18.2
2 11	8 34.49	+13 34.4	1.172	2.141	6.7	18.5
2 21	8 26.55	+13 56.4	1.226	2.157	11.8	18.8
3 2	8 21.58	+14 13.7	1.301	2.173	16.2	19.1

235000 2003 BR_{82} 1 29.9 10°.61 5°.3/27.6 18

12 23	9 10.92	+24 32.8	1.013	1.859	21.1	19.5
1 2	9 9.38	+25 32.9	0.955	1.861	16.5	19.2
1 12	9 3.75	+26 41.8	0.914	1.864	11.3	19.0
1 22	8 54.87	+27 48.8	0.895	1.869	6.5	18.7
2 1	8 44.36	+28 41.4	0.899	1.875	6.0	18.7
2 11	8 34.42	+29 10.5	0.926	1.882	10.5	19.0
2 21	8 26.96	+29 13.5	0.974	1.891	15.6	19.3
3 2	8 23.22	+28 52.8	1.040	1.902	20.1	19.6

441730 2009 BT_{68} 1 29.9 32°.20 1°.5/30.8 18

12 23	9 10.99	+10 56.7	1.352	2.151	19.4	20.2
1 2	9 8.22	+11 28.3	1.281	2.158	15.4	20.0
1 12	9 2.36	+12 20.9	1.228	2.164	10.6	19.7
1 22	8 54.09	+13 30.6	1.199	2.172	5.2	19.4
2 1	8 44.57	+14 50.1	1.196	2.180	1.6	19.2
2 11	8 35.35	+16 10.4	1.219	2.188	6.5	19.5
2 21	8 27.83	+17 23.3	1.268	2.197	11.6	19.8
3 2	8 23.07	+18 23.2	1.339	2.206	16.0	20.1

33723 1999 NB_{3} 1 29.9 86°.03 8°.1/ 4.2 18

12 23	9 14.41	− 3 37.8	1.687	2.401	19.4	18.8
1 2	9 10.04	− 4 16.9	1.619	2.422	16.5	18.7
1 12	9 3.10	− 4 31.0	1.569	2.442	13.3	18.5
1 22	8 54.27	− 4 17.6	1.541	2.463	10.2	18.4
2 1	8 44.55	− 3 37.5	1.539	2.483	8.2	18.3
2 11	8 35.18	− 2 35.1	1.563	2.503	8.7	18.4
2 21	8 27.26	− 1 17.8	1.614	2.523	11.0	18.5
3 2	8 21.64	+ 0 6.0	1.688	2.542	13.9	18.8

348446 2005 QT_{150} 1 29.9 84°.60 2°.1/31.1 17

12 23	9 15.54	+10 27.5	1.414	2.199	19.3	21.7
1 2	9 11.52	+10 43.1	1.346	2.214	15.4	21.5
1 12	9 4.41	+11 17.8	1.298	2.229	10.7	21.3
1 22	8 54.95	+12 8.5	1.273	2.244	5.5	21.0
2 1	8 44.37	+13 9.1	1.275	2.258	2.2	20.8
2 11	8 34.21	+14 12.2	1.304	2.273	6.4	21.1
2 21	8 25.81	+15 10.8	1.360	2.287	11.2	21.5
3 2	8 20.20	+16 0.1	1.438	2.301	15.4	21.7

327251 2005 SG_{97} 1 29.9 119°.07 3°.7/ 1.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.82	+ 7 24.8	2.071	2.818	15.2	20.9
1 2	9 9.96	+ 6 59.8	1.988	2.829	12.3	20.7
1 12	9 2.87	+ 6 48.1	1.928	2.840	9.0	20.5
1 22	8 54.13	+ 6 49.5	1.893	2.851	5.6	20.3
2 1	8 44.59	+ 7 2.5	1.887	2.861	3.7	20.2
2 11	8 35.29	+ 7 24.1	1.910	2.871	5.5	20.3
2 21	8 27.18	+ 7 50.6	1.962	2.880	8.8	20.6
3 2	8 21.02	+ 8 18.3	2.039	2.889	12.0	20.8

94836 2001 XH_{194} 1 29.9 58°.46 1°.0/30.4 18

12 23	9 16.71	+14 16.0	1.316	2.116	19.8	19.9
1 2	9 12.51	+14 22.2	1.259	2.137	15.5	19.7
1 12	9 5.05	+14 43.4	1.220	2.158	10.5	19.5
1 22	8 55.20	+15 15.4	1.205	2.180	4.9	19.2
2 1	8 44.33	+15 52.5	1.217	2.201	1.3	19.0
2 11	8 34.08	+16 28.2	1.255	2.223	6.5	19.4
2 21	8 25.84	+16 57.8	1.318	2.245	11.5	19.8
3 2	8 20.56	+17 18.4	1.404	2.267	15.7	20.1

276369 2002 VB_{45} 1 29.9 37°.88 4°.0/ 1.5 18

12 23	9 10.50	+ 5 53.8	2.153	2.901	14.7	20.1
1 2	9 6.61	+ 5 31.0	2.066	2.905	12.0	19.9
1 12	9 0.65	+ 5 22.2	2.000	2.909	8.9	19.7
1 22	8 53.14	+ 5 27.6	1.959	2.913	5.8	19.5
2 1	8 44.85	+ 5 45.7	1.946	2.917	4.0	19.4
2 11	8 36.71	+ 6 13.6	1.962	2.922	5.5	19.5
2 21	8 29.62	+ 6 47.6	2.006	2.927	8.6	19.7
3 2	8 24.30	+ 7 23.4	2.076	2.932	11.6	19.9

461921 2006 ST_{25} 1 29.9 52°.30 3°.3/31.9 16

12 23	9 14.13	+ 7 20.6	1.423	2.200	19.6	21.1
1 2	9 10.10	+ 7 32.9	1.370	2.231	15.6	20.9
1 12	9 3.22	+ 8 6.3	1.337	2.262	11.1	20.7
1 22	8 54.31	+ 8 58.2	1.328	2.293	6.3	20.5
2 1	8 44.57	+10 2.7	1.344	2.324	3.3	20.4
2 11	8 35.42	+11 12.3	1.389	2.356	6.2	20.7
2 21	8 28.04	+12 19.6	1.459	2.387	10.5	21.0
3 2	8 23.25	+13 19.2	1.553	2.419	14.3	21.3

173648 2001 FS_{171} 1 29.9 335°.70 0°.7/30.4 18

12 23	9 5.58	+10 12.1	1.284	2.094	19.6	19.3
1 2	9 4.45	+11 15.2	1.194	2.079	15.7	19.0
1 12	9 0.19	+12 46.8	1.124	2.065	10.8	18.7
1 22	8 53.29	+14 42.8	1.077	2.052	5.2	18.4
2 1	8 44.77	+16 53.8	1.055	2.040	1.2	18.0
2 11	8 36.19	+19 6.3	1.060	2.029	7.2	18.4
2 21	8 29.14	+21 7.4	1.089	2.019	12.9	18.7
3 2	8 24.95	+22 48.0	1.139	2.011	17.9	18.9

109883 2001 SC_{4} 1 29.9 129°.45 4°.5/ 1.9 18

12 23	9 14.56	+ 3 40.4	2.250	2.976	14.7	20.4
1 2	9 9.56	+ 3 16.3	2.167	2.990	12.1	20.2
1 12	9 2.51	+ 3 7.1	2.106	3.004	9.2	20.0
1 22	8 53.95	+ 3 13.0	2.071	3.017	6.2	19.9
2 1	8 44.66	+ 3 33.0	2.065	3.030	4.5	19.8
2 11	8 35.59	+ 4 3.9	2.088	3.042	5.7	19.9
2 21	8 27.61	+ 4 42.0	2.140	3.053	8.5	20.1
3 2	8 21.40	+ 5 22.9	2.218	3.064	11.3	20.3

337671 2001 TA_{183} 1 29.9 95°.06 4°.1/26.9 18

12 23	9 16.38	+30 43.3	2.580	3.363	11.6	20.9
1 2	9 10.86	+31 24.9	2.517	3.384	9.1	20.8
1 12	9 3.27	+32 4.6	2.479	3.406	6.5	20.6
1 22	8 54.24	+32 37.3	2.469	3.427	4.4	20.5
2 1	8 44.61	+32 58.6	2.489	3.448	4.5	20.6
2 11	8 35.34	+33 5.9	2.539	3.468	6.4	20.7
2 21	8 27.28	+32 58.8	2.617	3.489	8.9	20.9
3 2	8 21.11	+32 38.8	2.720	3.508	11.2	21.1

300263 2007 HS_{32} 1 29.9 249°.24 3°.1/28.4 18

12 23	9 18.24	+23 5.4	1.636	2.435	16.5	21.6
1 2	9 13.82	+23 41.8	1.542	2.423	13.0	21.3
1 12	9 6.17	+24 25.5	1.471	2.410	8.8	21.0
1 22	8 55.90	+25 9.8	1.424	2.397	4.5	20.8
2 1	8 44.12	+25 47.2	1.406	2.384	3.6	20.7
2 11	8 32.42	+26 11.3	1.415	2.371	7.7	20.9
2 21	8 22.31	+26 19.0	1.451	2.357	12.3	21.1
3 2	8 15.01	+26 10.6	1.509	2.342	16.4	21.3

456534 2007 AG_{29} 1 29.9 315°.59 1°.2/30.4 18

12 23	9 17.52	+16 40.2	1.737	2.521	16.3	20.4
1 2	9 12.76	+16 3.9	1.642	2.512	13.0	20.1
1 12	9 5.15	+15 33.8	1.569	2.503	8.9	19.9
1 22	8 55.32	+15 8.3	1.522	2.495	4.3	19.6
2 1	8 44.30	+14 45.7	1.503	2.487	1.5	19.4
2 11	8 33.47	+14 23.9	1.513	2.479	5.9	19.6
2 21	8 24.11	+14 1.7	1.550	2.472	10.5	19.9
3 2	8 17.23	+13 38.2	1.611	2.465	14.5	20.1

402166 2004 RK_{268} 1 29.9 142°.89 1°.3/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 18.75	+19 27.1	1.762	2.549	16.0	22.2
1 2	9 13.58	+19 50.3	1.684	2.558	12.5	22.0
1 12	9 5.59	+20 21.6	1.628	2.566	8.3	21.8
1 22	8 55.46	+20 56.1	1.598	2.573	3.8	21.5
2 1	8 44.28	+21 27.9	1.597	2.581	1.8	21.4
2 11	8 33.43	+21 52.2	1.626	2.587	6.2	21.7
2 21	8 24.15	+22 6.2	1.681	2.593	10.5	22.0
3 2	8 17.39	+22 9.2	1.761	2.599	14.2	22.2

267426 2002 CB_{60} 1 29.9 49°.23 0°.7/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.53	+20 27.7	1.732	2.522	16.1	20.2
1 2	9 13.34	+20 11.9	1.656	2.531	12.6	20.0
1 12	9 5.36	+20 0.7	1.602	2.540	8.4	19.7
1 22	8 55.31	+19 50.8	1.574	2.549	3.8	19.5
2 1	8 44.34	+19 38.8	1.574	2.558	1.3	19.3
2 11	8 33.81	+19 22.2	1.603	2.568	5.9	19.6
2 21	8 24.93	+19 0.1	1.660	2.577	10.2	19.9
3 2	8 18.57	+18 32.7	1.741	2.587	13.9	20.2

461344 1995 SV_{79} 1 29.9 123°.76 3°.8/ 1.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.01	+ 3 35.7	2.189	2.924	14.8	22.2
1 2	9 6.97	+ 3 49.8	2.103	2.934	12.2	22.0
1 12	9 0.88	+ 4 21.5	2.039	2.943	9.0	21.8
1 22	8 53.26	+ 5 10.1	2.000	2.953	5.8	21.6
2 1	8 44.87	+ 6 12.4	1.990	2.962	3.8	21.5
2 11	8 36.64	+ 7 23.7	2.009	2.970	5.2	21.6
2 21	8 29.43	+ 8 38.3	2.058	2.979	8.3	21.8
3 2	8 23.97	+ 9 50.7	2.133	2.987	11.4	22.0

465970 2011 CX_{10} 1 29.9 251°.92 0°.8/30.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.07	+13 29.8	2.200	2.970	13.7	22.1
1 2	9 8.02	+13 46.7	2.095	2.957	10.9	21.8
1 12	9 1.76	+14 14.8	2.013	2.944	7.5	21.6
1 22	8 53.74	+14 51.7	1.958	2.930	3.6	21.3
2 1	8 44.73	+15 33.8	1.932	2.917	1.0	21.1
2 11	8 35.72	+16 16.6	1.937	2.903	4.9	21.4
2 21	8 27.70	+16 56.1	1.970	2.888	8.8	21.6
3 2	8 21.50	+17 29.2	2.028	2.874	12.3	21.8

200740 2001 VG_{95} 1 29.9 90°.55 4°.4/ 1.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.60	+ 2 58.3	1.708	2.446	18.3	20.4
1 2	9 12.35	+ 3 13.4	1.647	2.480	14.9	20.2
1 12	9 4.54	+ 3 50.8	1.606	2.512	10.9	20.0
1 22	8 54.90	+ 4 48.5	1.590	2.544	6.9	19.8
2 1	8 44.48	+ 6 2.0	1.602	2.574	4.4	19.8
2 11	8 34.54	+ 7 24.3	1.643	2.604	6.2	19.9
2 21	8 26.17	+ 8 47.7	1.712	2.633	9.7	20.2
3 2	8 20.13	+10 6.1	1.807	2.661	13.1	20.5

257239 2009 ET_{4} 1 29.9 289°.25 3°.1/ 1.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.90	+ 5 18.8	2.445	3.187	13.3	20.8
1 2	9 4.57	+ 5 33.5	2.330	3.168	10.9	20.6
1 12	8 59.35	+ 6 3.8	2.238	3.148	8.0	20.4
1 22	8 52.63	+ 6 49.1	2.171	3.128	5.0	20.2
2 1	8 45.04	+ 7 47.0	2.134	3.109	3.1	20.0
2 11	8 37.39	+ 8 53.6	2.126	3.089	4.8	20.1
2 21	8 30.50	+10 3.9	2.147	3.069	8.0	20.3
3 2	8 25.12	+11 13.1	2.195	3.050	11.1	20.4

100740 1998 DP_{22} 1 29.9 62°.14 1°.0/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 19.51	+20 43.5	1.676	2.467	16.5	19.6
1 2	9 14.02	+20 38.9	1.613	2.489	12.8	19.4
1 12	9 5.72	+20 39.5	1.573	2.511	8.5	19.2
1 22	8 55.44	+20 41.3	1.558	2.533	3.8	18.9
2 1	8 44.37	+20 40.1	1.571	2.555	1.6	18.8
2 11	8 33.90	+20 32.9	1.614	2.577	6.0	19.2
2 21	8 25.21	+20 18.8	1.684	2.599	10.2	19.5
3 2	8 19.10	+19 57.9	1.777	2.621	13.8	19.7

266040 2006 HM_{69} 1 29.9 221°.61 0°.3/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.29	+14 49.8	1.987	2.761	14.9	22.1
1 2	9 10.77	+15 12.0	1.887	2.752	11.8	21.9
1 12	9 3.73	+15 45.7	1.810	2.743	8.0	21.6
1 22	8 54.69	+16 27.9	1.760	2.734	3.7	21.4
2 1	8 44.51	+17 13.9	1.739	2.723	0.9	21.1
2 11	8 34.36	+17 58.5	1.747	2.712	5.4	21.4
2 21	8 25.38	+18 37.3	1.784	2.701	9.7	21.6
3 2	8 18.52	+19 7.4	1.846	2.689	13.4	21.9

417622 2006 WO_{142} 1 29.9 28°.94 7°.5/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.80	+30 30.5	1.516	2.335	16.7	20.2
1 2	9 10.65	+32 20.8	1.454	2.341	13.2	20.0
1 12	9 4.14	+34 13.4	1.414	2.347	9.8	19.8
1 22	8 54.99	+35 56.7	1.400	2.354	7.6	19.7
2 1	8 44.45	+37 18.7	1.411	2.361	8.2	19.8
2 11	8 34.23	+38 11.8	1.449	2.369	11.1	20.0
2 21	8 25.90	+38 34.4	1.509	2.377	14.4	20.2
3 2	8 20.57	+38 29.3	1.590	2.385	17.5	20.4

334514 2002 RK_{59} 1 29.9 182°.95 0°.2/30.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.28	+15 47.3	3.051	3.809	10.6	22.8
1 2	9 7.41	+16 1.4	2.953	3.809	8.3	22.6
1 12	9 0.92	+16 21.7	2.880	3.809	5.5	22.4
1 22	8 53.23	+16 46.1	2.836	3.809	2.6	22.2
2 1	8 44.93	+17 12.1	2.823	3.808	0.6	22.1
2 11	8 36.72	+17 36.8	2.842	3.806	3.7	22.3
2 21	8 29.28	+17 58.1	2.892	3.803	6.6	22.5
3 2	8 23.18	+18 14.6	2.969	3.800	9.2	22.7

325885 2010 UO_{9} 1 29.9 30°.48 1°.1/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.05	+13 57.3	1.396	2.199	18.7	20.7
1 2	9 8.86	+14 1.9	1.330	2.210	14.7	20.5
1 12	9 2.66	+14 21.1	1.284	2.223	10.0	20.2
1 22	8 54.20	+14 51.8	1.262	2.236	4.8	20.0
2 1	8 44.69	+15 28.5	1.266	2.250	1.4	19.8
2 11	8 35.60	+16 5.3	1.296	2.265	6.3	20.1
2 21	8 28.26	+16 37.2	1.352	2.280	11.1	20.4
3 2	8 23.61	+17 0.8	1.430	2.297	15.2	20.7

380376 2002 TW_{346} 1 29.9 88°.49 1°.3/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.64	+19 18.3	2.336	3.117	12.7	22.0
1 2	9 8.09	+20 2.4	2.267	3.138	9.8	21.8
1 12	9 1.54	+20 53.0	2.222	3.159	6.5	21.6
1 22	8 53.53	+21 45.9	2.205	3.179	2.9	21.4
2 1	8 44.87	+22 36.0	2.218	3.200	1.8	21.4
2 11	8 36.47	+23 19.1	2.261	3.220	5.0	21.6
2 21	8 29.18	+23 52.5	2.334	3.239	8.3	21.9
3 2	8 23.67	+24 14.9	2.432	3.259	11.1	22.1

502885 2015 DS_{217} 1 29.9 293°.64 4°.3/ 1.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.77	+ 4 6.0	2.374	3.108	13.8	21.3
1 2	9 5.94	+ 3 41.7	2.276	3.104	11.4	21.1
1 12	9 0.19	+ 3 31.2	2.199	3.099	8.7	21.0
1 22	8 52.98	+ 3 34.9	2.148	3.095	5.9	20.8
2 1	8 44.99	+ 3 52.0	2.125	3.091	4.3	20.7
2 11	8 37.08	+ 4 20.0	2.131	3.086	5.5	20.7
2 21	8 30.05	+ 4 55.5	2.165	3.082	8.2	20.9
3 2	8 24.61	+ 5 34.3	2.226	3.078	11.1	21.1

11320 1995 BY 1 29.9 76°.69 1°.3/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.92	+19 51.5	2.077	2.865	13.9	18.4
1 2	9 8.66	+20 20.0	1.998	2.873	10.7	18.2
1 12	9 2.11	+20 55.4	1.943	2.882	7.1	18.0
1 22	8 53.85	+21 33.2	1.915	2.890	3.3	17.7
2 1	8 44.78	+22 8.6	1.916	2.899	1.8	17.6
2 11	8 35.95	+22 37.4	1.947	2.907	5.5	17.9
2 21	8 28.36	+22 56.8	2.005	2.916	9.1	18.1
3 2	8 22.77	+23 5.9	2.088	2.924	12.4	18.4

503072 2015 FR_{229} 1 29.9 247°.44 0°.7/29.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.43	+18 12.9	2.640	3.416	11.5	21.8
1 2	9 6.36	+18 39.3	2.538	3.407	9.0	21.6
1 12	9 0.43	+19 12.4	2.462	3.397	6.0	21.4
1 22	8 53.09	+19 49.2	2.413	3.387	2.7	21.1
2 1	8 44.97	+20 26.0	2.394	3.378	1.1	21.0
2 11	8 36.91	+20 59.3	2.406	3.368	4.5	21.2
2 21	8 29.69	+21 26.3	2.447	3.357	7.7	21.4
3 2	8 24.00	+21 45.4	2.515	3.347	10.6	21.6

298792 2004 PJ_{106} 1 29.9 206°.63 2°.2/31.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.45	+12 2.9	1.774	2.544	16.6	21.0
1 2	9 12.65	+11 50.2	1.681	2.540	13.3	20.7
1 12	9 5.08	+11 49.7	1.609	2.536	9.3	20.5
1 22	8 55.33	+12 0.1	1.562	2.531	4.9	20.2
2 1	8 44.39	+12 18.6	1.544	2.526	2.2	20.0
2 11	8 33.57	+12 41.0	1.554	2.520	5.8	20.2
2 21	8 24.12	+13 3.7	1.592	2.514	10.3	20.5
3 2	8 17.06	+13 23.3	1.655	2.507	14.3	20.7

207562 2006 OW_{15} 1 29.9 177°.69 0°.6/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.20	+20 54.9	2.697	3.462	11.6	20.3
1 2	9 12.13	+20 39.4	2.602	3.463	9.1	20.1
1 12	9 4.12	+20 26.1	2.531	3.463	6.1	19.9
1 22	8 54.69	+20 12.5	2.490	3.464	2.7	19.7
2 1	8 44.60	+19 56.6	2.480	3.464	1.0	19.5
2 11	8 34.73	+19 37.0	2.503	3.464	4.3	19.8
2 21	8 25.90	+19 12.9	2.556	3.464	7.5	20.0
3 2	8 18.78	+18 44.6	2.636	3.463	10.4	20.2

322649 1999 EO_{8} 1 29.9 138°.87 3°.4/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 20.51	+27 6.0	2.049	2.834	14.1	21.2
1 2	9 14.63	+27 24.9	1.970	2.842	11.0	21.0
1 12	9 6.12	+27 44.1	1.915	2.849	7.6	20.8
1 22	8 55.67	+27 58.1	1.887	2.855	4.3	20.6
2 1	8 44.35	+28 2.1	1.888	2.862	3.7	20.6
2 11	8 33.41	+27 53.0	1.919	2.868	6.7	20.8
2 21	8 24.00	+27 30.6	1.979	2.873	10.1	21.0
3 2	8 16.95	+26 56.6	2.062	2.879	13.2	21.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
293709 2007 QG_7			1 29.9	98°.06	3°.2/31.9	18
	h m	° ′			°	m
12 23	9 14.29	+ 7 37.6	1.662	2.427	17.7	21.2
1 2	9 10.14	+ 7 43.1	1.587	2.440	14.2	20.9
1 12	9 3.31	+ 8 7.1	1.532	2.453	10.2	20.7
1 22	8 54.47	+ 8 48.0	1.502	2.466	5.9	20.5
2 1	8 44.65	+ 9 41.7	1.499	2.479	3.2	20.4
2 11	8 35.12	+10 42.2	1.525	2.491	5.9	20.6
2 21	8 27.05	+11 43.1	1.578	2.503	10.1	20.8
3 2	8 21.34	+12 39.2	1.655	2.515	13.9	21.1
162206 1999 RN_{165}			1 29.9	89°.56	0°.3/29.8	18
12 23	9 17.85	+16 55.8	1.691	2.477	16.6	20.4
1 2	9 12.79	+17 14.0	1.626	2.498	12.9	20.2
1 12	9 4.98	+17 42.1	1.582	2.518	8.6	20.0
1 22	8 55.17	+18 15.8	1.564	2.539	3.9	19.8
2 1	8 44.49	+18 49.8	1.574	2.559	1.1	19.6
2 11	8 34.27	+19 19.1	1.614	2.578	5.8	20.0
2 21	8 25.70	+19 40.3	1.680	2.597	10.1	20.3
3 2	8 19.61	+19 52.2	1.771	2.616	13.8	20.5
226752 2004 RB_{40}			1 29.9	163°.33	2°.9/27.8	18
12 23	9 13.80	+23 10.8	2.252	3.040	12.9	20.5
1 2	9 9.33	+24 11.9	2.169	3.044	10.0	20.3
1 12	9 2.59	+25 18.7	2.110	3.047	6.7	20.1
1 22	8 54.12	+26 25.4	2.080	3.050	3.7	20.0
2 1	8 44.74	+27 25.9	2.079	3.053	3.3	19.9
2 11	8 35.50	+28 14.8	2.108	3.055	6.2	20.1
2 21	8 27.38	+28 49.4	2.165	3.057	9.5	20.3
3 2	8 21.21	+29 8.9	2.247	3.059	12.4	20.5
134748 2000 BF_{14}			1 29.9	44°.03	1°.2/29.4	18
12 23	9 15.28	+19 10.5	1.444	2.250	18.0	19.7
1 2	9 11.35	+19 27.6	1.378	2.263	14.0	19.5
1 12	9 4.32	+19 54.1	1.333	2.275	9.3	19.2
1 22	8 54.96	+20 24.9	1.313	2.289	4.2	19.0
2 1	8 44.54	+20 53.6	1.319	2.303	1.8	18.8
2 11	8 34.61	+21 14.9	1.352	2.317	6.7	19.2
2 21	8 26.51	+21 25.8	1.411	2.332	11.4	19.5
3 2	8 21.21	+21 25.5	1.492	2.346	15.4	19.8
128317 2004 DO_{44}			1 29.9	234°.14	1°.1/30.8	17
12 23	9 10.02	+12 23.6	2.601	3.362	12.1	20.6
1 2	9 6.02	+12 38.6	2.498	3.354	9.6	20.4
1 12	9 0.20	+13 3.4	2.420	3.347	6.6	20.2
1 22	8 52.99	+13 36.3	2.368	3.339	3.3	20.0
2 1	8 45.03	+14 14.2	2.347	3.331	1.2	19.8
2 11	8 37.12	+14 53.7	2.357	3.323	4.1	20.0
2 21	8 30.03	+15 31.4	2.396	3.314	7.4	20.2
3 2	8 24.42	+16 4.7	2.461	3.306	10.4	20.4
202093 2004 TP_{17}			1 29.9	100°.60	0°.1/30.0	18
12 23	9 13.91	+16 50.5	2.027	2.808	14.4	20.8
1 2	9 9.49	+16 57.1	1.942	2.811	11.3	20.6
1 12	9 2.72	+17 12.0	1.879	2.815	7.6	20.4
1 22	8 54.18	+17 32.1	1.843	2.818	3.5	20.1
2 1	8 44.76	+17 53.7	1.836	2.821	0.9	19.9
2 11	8 35.55	+18 12.9	1.859	2.824	5.1	20.2
2 21	8 27.58	+18 27.0	1.910	2.827	9.1	20.5
3 2	8 21.65	+18 34.4	1.985	2.830	12.5	20.7
86007 1999 JO_{90}			1 29.9	240°.26	1°.4/28.9	18
12 23	9 12.46	+17 40.4	2.200	2.981	13.4	19.9
1 2	9 8.45	+18 41.2	2.098	2.969	10.5	19.6
1 12	9 2.15	+19 53.4	2.020	2.957	7.0	19.4
1 22	8 54.00	+21 12.1	1.969	2.944	3.2	19.1
2 1	8 44.78	+22 31.0	1.949	2.931	1.9	19.0
2 11	8 35.51	+23 43.8	1.960	2.918	5.6	19.2
2 21	8 27.22	+24 45.4	1.999	2.904	9.5	19.4
3 2	8 20.82	+25 33.2	2.063	2.890	12.8	19.6
392231 2009 VU_{45}			1 29.9	111°.51	2°.1/31.1	17
12 23	9 16.97	+11 1.7	1.449	2.232	19.1	21.9
1 2	9 12.66	+11 8.2	1.376	2.242	15.2	21.7
1 12	9 5.25	+11 32.2	1.322	2.253	10.6	21.4
1 22	8 55.43	+12 11.2	1.293	2.263	5.5	21.2
2 1	8 44.43	+13 0.0	1.290	2.273	2.2	21.0
2 11	8 33.78	+13 51.9	1.315	2.283	6.4	21.3
2 21	8 24.88	+14 40.7	1.366	2.292	11.3	21.6
3 2	8 18.76	+15 21.8	1.441	2.301	15.5	21.9
277565 2005 YT_{146}			1 29.9	107°.24	1°.2/29.3	18
12 23	9 15.75	+19 52.2	2.145	2.926	13.7	21.7
1 2	9 10.70	+20 13.9	2.071	2.942	10.6	21.5
1 12	9 3.38	+20 41.5	2.021	2.957	7.0	21.3
1 22	8 54.42	+21 11.0	1.997	2.972	3.2	21.1
2 1	8 44.72	+21 37.9	2.004	2.987	1.6	21.0
2 11	8 35.33	+21 58.6	2.041	3.001	5.2	21.3
2 21	8 27.21	+22 10.9	2.106	3.015	8.8	21.5
3 2	8 21.11	+22 14.1	2.196	3.029	12.0	21.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
421307 2013 TC_{37}			1 29.9	27°.89	9°.0/24.1	18
	h m	° ′			°	m
12 23	9 19.78	+41 21.7	1.979	2.767	14.5	20.7
1 2	9 14.83	+42 37.8	1.915	2.769	12.1	20.6
1 12	9 6.66	+43 45.4	1.874	2.772	10.1	20.4
1 22	8 56.05	+44 35.0	1.857	2.774	9.0	20.4
2 1	8 44.29	+44 58.9	1.867	2.777	9.5	20.4
2 11	8 32.98	+44 53.6	1.902	2.780	11.2	20.5
2 21	8 23.54	+44 20.7	1.961	2.784	13.5	20.7
3 2	8 17.00	+43 24.9	2.041	2.787	15.7	20.8
200998 2002 CF_{159}			1 29.9	339°.14	0°.3/30.1	18
12 23	9 10.82	+15 10.0	1.294	2.107	19.3	20.6
1 2	9 8.50	+15 25.9	1.211	2.099	15.3	20.3
1 12	9 2.86	+15 58.0	1.148	2.091	10.4	20.0
1 22	8 54.52	+16 42.4	1.108	2.084	4.8	19.6
2 1	8 44.65	+17 32.8	1.093	2.078	1.2	19.4
2 11	8 34.92	+18 21.4	1.103	2.072	7.1	19.7
2 21	8 26.94	+19 1.7	1.138	2.068	12.6	20.0
3 2	8 21.93	+19 29.9	1.194	2.064	17.4	20.3
159221 2005 WX_{98}			1 29.9	267°.86	3°.3/31.5	18
12 23	9 14.92	+ 9 51.8	1.552	2.329	18.2	20.8
1 2	9 11.18	+ 9 33.3	1.456	2.318	14.8	20.6
1 12	9 4.41	+ 9 30.5	1.380	2.306	10.6	20.3
1 22	8 55.17	+ 9 43.2	1.328	2.294	6.1	20.0
2 1	8 44.48	+10 8.8	1.302	2.282	3.3	19.8
2 11	8 33.79	+10 42.9	1.303	2.270	6.6	20.0
2 21	8 24.54	+11 20.1	1.331	2.257	11.4	20.2
3 2	8 17.90	+11 55.4	1.382	2.245	15.9	20.4
323521 2004 RX_{100}			1 29.9	221°.77	0°.3/29.8	17
12 23	9 14.80	+17 36.0	2.521	3.289	12.3	21.7
1 2	9 9.85	+17 51.6	2.415	3.278	9.6	21.5
1 12	9 2.84	+18 14.0	2.334	3.267	6.5	21.3
1 22	8 54.23	+18 40.3	2.281	3.255	2.9	21.1
2 1	8 44.75	+19 7.0	2.258	3.243	0.9	20.9
2 11	8 35.31	+19 30.7	2.267	3.230	4.6	21.1
2 21	8 26.79	+19 48.9	2.305	3.216	8.1	21.3
3 2	8 19.96	+20 0.0	2.370	3.201	11.2	21.5
415083 2012 BH_{110}			1 29.9	202°.93	0°.1/29.9	16
12 23	9 15.22	+16 35.7	2.140	2.914	14.0	22.2
1 2	9 10.49	+16 51.7	2.045	2.911	11.0	22.0
1 12	9 3.41	+17 16.4	1.973	2.907	7.4	21.7
1 22	8 54.53	+17 46.6	1.928	2.902	3.4	21.5
2 1	8 44.68	+18 18.4	1.913	2.897	0.9	21.3
2 11	8 34.95	+18 47.4	1.928	2.892	5.1	21.6
2 21	8 26.35	+19 10.6	1.971	2.886	9.0	21.8
3 2	8 19.72	+19 26.0	2.040	2.879	12.5	22.0
136751 1995 YN_5			1 29.9	97°.84	3°.6/26.9	18
12 23	9 13.24	+27 39.8	2.587	3.374	11.5	20.7
1 2	9 8.53	+28 37.7	2.520	3.392	8.9	20.6
1 12	9 1.84	+29 36.5	2.478	3.410	6.2	20.4
1 22	8 53.71	+30 31.0	2.464	3.427	4.0	20.3
2 1	8 44.91	+31 16.0	2.481	3.445	4.0	20.3
2 11	8 36.36	+31 48.1	2.527	3.462	6.1	20.5
2 21	8 28.89	+32 5.8	2.602	3.478	8.7	20.7
3 2	8 23.15	+32 9.6	2.701	3.495	11.1	20.9
224368 2005 US_{154}			1 29.9	178°.90	1°.4/30.9	18
12 23	9 13.21	+12 18.3	2.136	2.902	14.2	21.6
1 2	9 8.84	+12 25.0	2.045	2.903	11.3	21.4
1 12	9 2.26	+12 43.0	1.976	2.904	7.8	21.1
1 22	8 53.98	+13 10.3	1.934	2.904	4.0	20.9
2 1	8 44.83	+13 43.7	1.921	2.904	1.5	20.7
2 11	8 35.81	+14 19.0	1.938	2.904	4.8	21.0
2 21	8 27.89	+14 52.6	1.983	2.903	8.6	21.2
3 2	8 21.86	+15 21.5	2.054	2.902	12.0	21.4
448221 2008 UH_{329}			1 29.9	99°.17	2°.3/31.2	18
12 23	9 17.36	+11 4.9	1.578	2.353	18.1	21.8
1 2	9 12.63	+11 2.2	1.507	2.369	14.4	21.6
1 12	9 5.02	+11 15.0	1.457	2.385	10.0	21.4
1 22	8 55.27	+11 40.9	1.431	2.400	5.3	21.1
2 1	8 44.52	+12 15.9	1.433	2.416	2.3	21.0
2 11	8 34.17	+12 54.5	1.464	2.431	6.0	21.2
2 21	8 25.47	+13 31.7	1.521	2.445	10.5	21.5
3 2	8 19.35	+14 3.8	1.602	2.459	14.4	21.8
456330 2006 SK_{350}			1 29.9	30°.64	3°.8/28.3	18
12 23	9 18.45	+26 15.1	1.614	2.418	16.5	21.5
1 2	9 13.79	+26 38.5	1.539	2.421	12.9	21.3
1 12	9 5.97	+27 4.0	1.485	2.423	8.9	21.1
1 22	8 55.76	+27 25.0	1.455	2.426	4.9	20.9
2 1	8 44.39	+27 35.1	1.454	2.429	4.2	20.8
2 11	8 33.43	+27 30.0	1.480	2.432	7.8	21.0
2 21	8 24.30	+27 9.1	1.532	2.436	11.9	21.3
3 2	8 17.98	+26 34.5	1.606	2.440	15.6	21.5

266295 2007 BR_{47} 1 29.9 26°.20 3°.1/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 15.09	+23 56.7	1.311	2.132	18.7	20.1
1 2	9 11.53	+24 14.3	1.253	2.145	14.5	19.9
1 12	9 4.57	+24 36.5	1.215	2.159	9.7	19.6
1 22	8 55.11	+24 56.5	1.200	2.174	4.9	19.4
2 1	8 44.58	+25 7.8	1.211	2.191	3.6	19.4
2 11	8 34.70	+25 5.8	1.248	2.208	7.9	19.7
2 21	8 26.92	+24 49.7	1.309	2.226	12.4	20.0
3 2	8 22.20	+24 20.9	1.392	2.245	16.4	20.3

327297 2005 TF_{121} 1 29.9 17°.47 1°.1/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.74	+13 6.0	1.739	2.524	16.2	21.3
1 2	9 8.21	+13 20.3	1.655	2.526	12.9	21.1
1 12	9 2.09	+13 48.4	1.593	2.527	8.8	20.8
1 22	8 53.98	+14 27.3	1.556	2.529	4.3	20.6
2 1	8 44.83	+15 12.6	1.547	2.531	1.3	20.3
2 11	8 35.87	+15 58.6	1.566	2.534	5.6	20.6
2 21	8 28.25	+16 40.4	1.612	2.536	10.0	20.9
3 2	8 22.88	+17 14.5	1.682	2.539	13.8	21.1

176210 2001 QS_{23} 1 29.9 219°.94 0°.5/29.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.38	+16 53.7	2.360	3.131	12.9	21.2
1 2	9 9.72	+17 28.0	2.256	3.121	10.1	21.0
1 12	9 2.86	+18 11.5	2.176	3.110	6.8	20.8
1 22	8 54.29	+19 0.6	2.124	3.099	3.1	20.5
2 1	8 44.75	+19 50.7	2.102	3.086	1.1	20.3
2 11	8 35.21	+20 37.2	2.112	3.073	5.0	20.6
2 21	8 26.62	+21 16.4	2.150	3.060	8.7	20.8
3 2	8 19.82	+21 46.1	2.214	3.045	11.9	21.0

3613 Kunlun 1 29.9 337°.21 4°.8/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.68	+24 33.8	1.402	2.221	17.7	16.3
1 2	9 10.73	+25 44.8	1.325	2.216	13.9	16.0
1 12	9 4.35	+27 4.7	1.269	2.212	9.6	15.8
1 22	8 55.19	+28 24.1	1.238	2.208	5.6	15.5
2 1	8 44.51	+29 32.3	1.232	2.205	5.5	15.5
2 11	8 34.03	+30 20.6	1.253	2.201	9.4	15.7
2 21	8 25.39	+30 45.1	1.297	2.199	13.8	16.0
3 2	8 19.82	+30 46.5	1.363	2.197	17.8	16.2

241432 2008 WG_{93} 1 29.9 11°.80 4°.5/ 1.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.76	+ 6 30.0	1.465	2.251	18.7	19.7
1 2	9 4.64	+ 6 12.0	1.394	2.257	15.3	19.4
1 12	8 59.82	+ 6 14.3	1.342	2.264	11.2	19.2
1 22	8 52.97	+ 6 36.6	1.312	2.273	7.0	19.0
2 1	8 45.10	+ 7 16.2	1.307	2.283	4.5	18.9
2 11	8 37.53	+ 8 7.5	1.328	2.295	6.6	19.0
2 21	8 31.42	+ 9 3.8	1.375	2.307	10.6	19.3
3 2	8 27.68	+ 9 58.5	1.444	2.321	14.5	19.5

318353 2004 TW_{318} 1 29.9 263°.75 4°.4/ 1.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.06	+ 4 19.3	2.148	2.887	15.0	20.9
1 2	9 7.28	+ 4 4.2	2.041	2.874	12.4	20.7
1 12	9 1.32	+ 4 4.8	1.956	2.861	9.4	20.5
1 22	8 53.62	+ 4 21.6	1.896	2.847	6.3	20.2
2 1	8 44.94	+ 4 53.4	1.864	2.833	4.4	20.1
2 11	8 36.23	+ 5 37.1	1.860	2.819	5.9	20.2
2 21	8 28.47	+ 6 28.1	1.885	2.805	9.0	20.3
3 2	8 22.48	+ 7 21.3	1.935	2.791	12.4	20.5

14649 1998 XW_{62} 1 29.9 33°.81 9°.4/23.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 20.11	+42 52.4	1.996	2.780	14.5	17.3
1 2	9 15.10	+44 9.8	1.936	2.785	12.3	17.2
1 12	9 6.84	+45 17.4	1.899	2.790	10.3	17.1
1 22	8 56.15	+46 5.6	1.886	2.796	9.4	17.0
2 1	8 44.32	+46 27.0	1.900	2.802	9.9	17.1
2 11	8 33.01	+46 18.4	1.938	2.807	11.5	17.2
2 21	8 23.63	+45 41.8	2.000	2.814	13.6	17.3
3 2	8 17.19	+44 42.3	2.082	2.820	15.7	17.5

160838 2000 YF_{79} 1 29.9 47°.72 0°.6/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.36	+17 11.7	1.253	2.064	19.9	19.7
1 2	9 12.42	+17 31.4	1.200	2.087	15.5	19.4
1 12	9 5.11	+18 3.9	1.168	2.110	10.3	19.2
1 22	8 55.34	+18 43.4	1.158	2.134	4.6	19.0
2 1	8 44.56	+19 22.7	1.174	2.158	1.5	18.8
2 11	8 34.49	+19 55.2	1.217	2.183	7.0	19.2
2 21	8 26.55	+20 17.1	1.284	2.209	11.9	19.6
3 2	8 21.65	+20 26.9	1.373	2.234	16.1	19.9

106603 2000 WM_{114} 1 29.9 21°.74 0°.6/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.56	+18 5.1	1.234	2.053	19.7	19.2
1 2	9 10.57	+18 12.7	1.168	2.059	15.4	19.0
1 12	9 4.12	+18 32.0	1.122	2.066	10.3	18.7
1 22	8 55.01	+18 58.2	1.098	2.074	4.7	18.4
2 1	8 44.62	+19 24.9	1.099	2.083	1.5	18.2
2 11	8 34.72	+19 45.9	1.126	2.093	7.2	18.6
2 21	8 26.85	+19 57.4	1.176	2.104	12.5	18.9
3 2	8 22.08	+19 58.0	1.248	2.116	17.0	19.2

1988 Delores 1 29.9 137°.91 1°.2/29.3 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 17.72	+17 12.2	1.509	2.304	17.9	17.1
1 2	9 13.33	+17 56.5	1.434	2.312	14.0	16.9
1 12	9 5.77	+18 54.4	1.380	2.320	9.3	16.6
1 22	8 55.74	+19 59.6	1.351	2.327	4.2	16.4
2 1	8 44.44	+21 4.2	1.350	2.333	1.9	16.2
2 11	8 33.44	+22 0.4	1.377	2.340	6.9	16.6
2 21	8 24.18	+22 43.1	1.430	2.345	11.7	16.8
3 2	8 17.74	+23 10.5	1.506	2.351	15.8	17.1

147317 2003 BF_{7} 1 29.9 36°.61 0°.8/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.06	+18 13.4	1.435	2.243	18.0	19.9
1 2	9 10.41	+18 28.2	1.371	2.256	14.0	19.7
1 12	9 3.70	+18 53.3	1.328	2.270	9.3	19.4
1 22	8 54.72	+19 23.9	1.309	2.285	4.2	19.2
2 1	8 44.72	+19 53.9	1.316	2.300	1.5	19.0
2 11	8 35.19	+20 18.0	1.350	2.316	6.5	19.4
2 21	8 27.48	+20 32.6	1.409	2.332	11.2	19.7
3 2	8 22.49	+20 36.7	1.491	2.349	15.2	20.0

142969 2002 VF_{82} 1 29.9 83°.78 0°.8/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.29	+12 55.3	1.804	2.579	16.1	20.5
1 2	9 10.63	+13 24.7	1.739	2.603	12.6	20.3
1 12	9 3.48	+14 7.6	1.696	2.628	8.5	20.1
1 22	8 54.53	+14 59.9	1.679	2.652	4.0	19.9
2 1	8 44.78	+15 56.2	1.691	2.675	1.0	19.7
2 11	8 35.42	+16 50.7	1.732	2.698	5.3	20.1
2 21	8 27.51	+17 38.7	1.801	2.721	9.4	20.4
3 2	8 21.84	+18 17.3	1.895	2.743	12.9	20.6

466055 2011 QQ_{98} 1 29.9 173°.14 3°.5/ 2.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.82	+ 2 32.9	3.162	3.872	11.2	22.6
1 2	9 4.68	+ 2 29.6	3.062	3.875	9.2	22.5
1 12	8 59.11	+ 2 38.4	2.986	3.877	7.0	22.3
1 22	8 52.47	+ 2 59.1	2.937	3.879	4.8	22.2
2 1	8 45.29	+ 3 30.5	2.917	3.880	3.5	22.1
2 11	8 38.18	+ 4 10.1	2.928	3.881	4.4	22.2
2 21	8 31.73	+ 4 55.0	2.969	3.882	6.4	22.3
3 2	8 26.46	+ 5 42.0	3.038	3.882	8.7	22.5

523153 2016 TJ_{19} 1 29.9 73°.45 3°.2/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.77	+10 23.9	1.008	1.821	23.6	19.8
1 2	9 13.23	+13 28.2	0.945	1.835	18.3	19.5
1 12	9 6.56	+17 14.1	0.903	1.848	12.0	19.2
1 22	8 56.40	+21 24.5	0.885	1.862	5.4	18.9
2 1	8 44.26	+25 31.9	0.896	1.876	4.5	18.9
2 11	8 32.34	+29 9.2	0.934	1.890	10.7	19.3
2 21	8 22.79	+32 0.0	0.998	1.904	16.5	19.7
3 2	8 17.13	+34 1.1	1.081	1.917	21.3	20.0

483517 2003 PH_{12} 1 29.9 119°.45 8°.1/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 35.89	+41 28.1	2.038	2.797	15.1	21.0
1 2	9 26.74	+42 9.8	1.979	2.818	12.5	20.9
1 12	9 14.19	+42 39.9	1.943	2.838	10.0	20.8
1 22	8 59.30	+42 49.3	1.934	2.857	8.3	20.7
2 1	8 43.64	+42 31.7	1.954	2.876	8.4	20.7
2 11	8 29.00	+41 46.0	2.003	2.894	10.1	20.9
2 21	8 16.79	+40 36.5	2.078	2.911	12.4	21.0
3 2	8 7.88	+39 10.1	2.177	2.927	14.7	21.2

426884 2013 WT_{49} 1 29.9 353°.70 1°.3/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.29	+21 17.7	2.096	2.884	13.8	20.7
1 2	9 9.80	+21 24.6	2.009	2.883	10.7	20.5
1 12	9 2.95	+21 35.9	1.944	2.882	7.2	20.3
1 22	8 54.34	+21 48.1	1.907	2.882	3.3	20.0
2 1	8 44.85	+21 57.4	1.898	2.881	1.8	19.9
2 11	8 35.58	+22 0.3	1.920	2.881	5.4	20.2
2 21	8 27.54	+21 55.4	1.969	2.881	9.2	20.4
3 2	8 21.55	+21 42.3	2.043	2.881	12.5	20.6

205243 2000 QT_{185} 1 29.9 115°.40 2°.5/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 19.31	+21 56.2	1.743	2.534	16.0	20.3
1 2	9 14.06	+22 35.6	1.674	2.550	12.4	20.1
1 12	9 5.96	+23 21.4	1.627	2.565	8.3	19.9
1 22	8 55.72	+24 7.4	1.607	2.580	4.0	19.7
2 1	8 44.51	+24 46.7	1.615	2.595	2.9	19.6
2 11	8 33.72	+25 14.4	1.652	2.608	6.7	19.9
2 21	8 24.59	+25 27.9	1.717	2.622	10.8	20.1
3 2	8 18.03	+25 27.8	1.805	2.635	14.3	20.4

68135 2001 AJ_{20} 1 29.9 102°.14 1°.5/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 20.13	+19 56.4	1.845	2.627	15.6	19.9
1 2	9 14.36	+20 26.5	1.782	2.653	12.1	19.7
1 12	9 5.95	+21 3.6	1.741	2.677	8.0	19.5
1 22	8 55.65	+21 42.2	1.727	2.702	3.6	19.3
2 1	8 44.55	+22 16.8	1.743	2.725	2.0	19.2
2 11	8 33.93	+22 42.8	1.788	2.748	5.9	19.5
2 21	8 24.93	+22 58.0	1.861	2.770	9.9	19.8
3 2	8 18.35	+23 2.0	1.959	2.791	13.2	20.1

333620 2007 TP_{393} 1 29.9 60.°20 1.°3/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 16.56	+14 55.3	2.073	2.842	14.5	20.4
1 2	9 11.23	+14 30.1	2.003	2.864	11.4	20.2
1 12	9 3.68	+14 12.5	1.956	2.885	7.8	20.0
1 22	8 54.58	+14 1.0	1.936	2.907	3.9	19.8
2 1	8 44.83	+13 53.7	1.945	2.928	1.4	19.7
2 11	8 35.48	+13 48.2	1.984	2.950	4.8	19.9
2 21	8 27.47	+13 42.7	2.053	2.972	8.4	20.2
3 2	8 21.47	+13 35.9	2.146	2.994	11.6	20.5

203925 2003 OK_{27} 1 29.9 232.°22 0.°6/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.25	+14 25.6	1.973	2.744	15.1	21.4
1 2	9 11.63	+14 38.8	1.869	2.732	12.0	21.2
1 12	9 4.42	+15 3.4	1.787	2.719	8.2	20.9
1 22	8 55.13	+15 36.7	1.732	2.705	3.9	20.6
2 1	8 44.64	+16 14.5	1.706	2.691	1.0	20.4
2 11	8 34.13	+16 52.0	1.710	2.676	5.5	20.6
2 21	8 24.78	+17 25.0	1.742	2.660	9.8	20.9
3 2	8 17.58	+17 50.8	1.799	2.643	13.7	21.1

372985 2011 CT_{68} 1 29.9 267.°31 1.°0/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.03	+12 19.2	2.015	2.790	14.7	21.3
1 2	9 7.41	+12 44.0	1.920	2.784	11.7	21.1
1 12	9 1.47	+13 22.4	1.848	2.779	8.0	20.8
1 22	8 53.74	+14 11.7	1.801	2.773	4.0	20.6
2 1	8 45.01	+15 7.5	1.783	2.768	1.2	20.3
2 11	8 36.34	+16 4.4	1.795	2.762	5.1	20.6
2 21	8 28.77	+16 57.5	1.835	2.756	9.1	20.8
3 2	8 23.13	+17 43.0	1.899	2.751	12.7	21.0

257797 2000 EX_{22} 1 29.9 199.°39 0.°4/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.14	+17 13.0	1.930	2.712	15.0	21.5
1 2	9 10.69	+17 31.6	1.840	2.711	11.7	21.3
1 12	9 3.71	+17 59.6	1.773	2.709	7.9	21.1
1 22	8 54.76	+18 33.2	1.732	2.707	3.6	20.8
2 1	8 44.77	+19 7.7	1.720	2.704	1.1	20.6
2 11	8 34.93	+19 38.4	1.737	2.702	5.5	20.9
2 21	8 26.37	+20 1.8	1.783	2.699	9.7	21.1
3 2	8 19.99	+20 16.1	1.852	2.695	13.4	21.4

373865 2003 SP_{9} 1 29.9 121.°73 0.°6/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.65	+18 55.3	2.185	2.965	13.5	21.5
1 2	9 9.91	+19 4.5	2.101	2.970	10.5	21.3
1 12	9 2.94	+19 19.8	2.040	2.976	7.0	21.1
1 22	8 54.32	+19 38.0	2.006	2.981	3.2	20.9
2 1	8 44.89	+19 55.3	2.002	2.986	1.2	20.8
2 11	8 35.70	+20 8.5	2.028	2.991	5.0	21.0
2 21	8 27.69	+20 15.2	2.082	2.996	8.7	21.3
3 2	8 21.62	+20 14.8	2.162	3.001	11.9	21.5

363173 2001 TQ_{87} 1 29.9 102.°10 6.°0/ 3.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.43	− 1 32.0	2.192	2.894	15.7	21.4
1 2	9 9.49	− 1 55.7	2.120	2.919	13.2	21.2
1 12	9 2.52	− 2 0.3	2.068	2.943	10.4	21.1
1 22	8 54.08	− 1 45.3	2.040	2.967	7.7	21.0
2 1	8 44.97	− 1 11.5	2.041	2.990	6.1	20.9
2 11	8 36.14	− 0 22.7	2.070	3.013	6.7	21.0
2 21	8 28.45	+ 0 36.2	2.127	3.035	8.9	21.2
3 2	8 22.57	+ 1 39.5	2.211	3.056	11.4	21.4

362108 2009 CD_{27} 1 30.0 74.°46 0.°3/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.30	+14 41.7	1.523	2.317	17.8	21.0
1 2	9 10.50	+15 28.3	1.455	2.332	13.9	20.7
1 12	9 3.77	+16 30.4	1.408	2.346	9.3	20.5
1 22	8 54.81	+17 42.5	1.385	2.361	4.2	20.2
2 1	8 44.78	+18 56.7	1.391	2.375	1.2	20.1
2 11	8 35.10	+20 5.2	1.424	2.390	6.3	20.4
2 21	8 27.07	+21 2.0	1.484	2.404	11.0	20.7
3 2	8 21.64	+21 44.1	1.567	2.418	15.0	21.0

327674 2006 RT_{17} 1 30.0 40.°05 6.°7/ 2.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.92	+ 2 59.4	1.483	2.242	19.7	20.4
1 2	9 9.35	+ 2 8.7	1.413	2.255	16.4	20.2
1 12	9 2.96	+ 1 39.1	1.363	2.267	12.6	20.0
1 22	8 54.43	+ 1 32.5	1.334	2.281	8.9	19.8
2 1	8 44.88	+ 1 48.5	1.331	2.294	6.7	19.7
2 11	8 35.67	+ 2 23.2	1.353	2.309	8.0	19.8
2 21	8 28.04	+ 3 10.3	1.401	2.324	11.3	20.1
3 2	8 22.93	+ 4 2.7	1.471	2.339	14.9	20.3

32230 2000 OP_{27} 1 30.0 81.°75 3.°1/ 1.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.85	+ 3 55.7	2.441	3.174	13.5	17.7
1 2	9 5.13	+ 4 23.2	2.356	3.187	11.0	17.6
1 12	8 59.62	+ 5 7.2	2.294	3.200	8.1	17.4
1 22	8 52.79	+ 6 5.9	2.259	3.213	5.1	17.2
2 1	8 45.31	+ 7 16.3	2.253	3.227	3.2	17.1
2 11	8 37.98	+ 8 33.6	2.277	3.240	4.6	17.2
2 21	8 31.54	+ 9 52.3	2.331	3.252	7.5	17.4
3 2	8 26.62	+11 7.8	2.412	3.265	10.3	17.6

468412 2016 GF_{191} 1 30.0 239.°62 0.°6/30.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.00	+12 55.3	2.361	3.129	13.0	21.8
1 2	9 6.26	+13 28.7	2.263	3.124	10.2	21.6
1 12	9 0.53	+14 13.8	2.189	3.119	7.0	21.4
1 22	8 53.27	+15 7.8	2.141	3.114	3.3	21.1
2 1	8 45.18	+16 6.8	2.124	3.108	0.8	20.9
2 11	8 37.13	+17 5.7	2.137	3.103	4.5	21.2
2 21	8 29.98	+18 0.3	2.179	3.097	8.1	21.4
3 2	8 24.48	+18 47.4	2.247	3.091	11.3	21.6

427239 2014 WF_{61} 1 30.0 124.°77 4.°7/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.57	+28 44.9	2.175	2.964	13.3	21.9
1 2	9 12.38	+29 57.9	2.108	2.980	10.4	21.8
1 12	9 4.70	+31 12.0	2.065	2.995	7.4	21.6
1 22	8 55.16	+32 20.0	2.049	3.009	5.0	21.5
2 1	8 44.72	+33 14.9	2.064	3.023	5.2	21.5
2 11	8 34.56	+33 52.0	2.107	3.036	7.6	21.7
2 21	8 25.78	+34 10.0	2.178	3.049	10.4	21.9
3 2	8 19.19	+34 10.2	2.273	3.061	13.1	22.1

165127 2000 KX_{40} 1 30.0 218.°46 1.°5/31.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.45	+11 8.5	2.660	3.415	12.0	21.1
1 2	9 6.33	+11 19.7	2.558	3.409	9.6	20.9
1 12	9 0.44	+11 41.1	2.479	3.403	6.7	20.7
1 22	8 53.19	+12 11.0	2.428	3.396	3.5	20.5
2 1	8 45.21	+12 46.9	2.407	3.389	1.5	20.4
2 11	8 37.27	+13 25.4	2.416	3.382	4.1	20.5
2 21	8 30.14	+14 3.3	2.455	3.374	7.3	20.7
3 2	8 24.46	+14 37.8	2.521	3.367	10.2	20.9

420955 2013 PH_{8} 1 30.0 330.°20 7.°9/ 3.9 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.51	− 2 3.4	1.535	2.281	19.7	20.8
1 2	9 4.63	− 2 29.1	1.438	2.265	16.9	20.6
1 12	9 0.06	− 2 28.1	1.359	2.250	13.6	20.3
1 22	8 53.27	− 1 56.8	1.301	2.236	10.3	20.1
2 1	8 45.15	− 0 54.8	1.267	2.223	8.1	19.9
2 11	8 36.98	+ 0 33.1	1.258	2.211	8.8	19.9
2 21	8 30.05	+ 2 18.4	1.273	2.199	11.9	20.1
3 2	8 25.45	+ 4 10.3	1.312	2.189	15.7	20.2

16602 Anabuki 1 30.0 227.°22 2.°2/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.38	+10 45.3	1.736	2.507	16.8	18.4
1 2	9 11.23	+10 49.4	1.640	2.500	13.5	18.1
1 12	9 4.29	+11 9.0	1.565	2.492	9.5	17.9
1 22	8 55.13	+11 42.2	1.514	2.483	5.1	17.6
2 1	8 44.70	+12 25.5	1.492	2.474	2.2	17.4
2 11	8 34.29	+13 13.4	1.498	2.465	5.9	17.6
2 21	8 25.20	+14 0.4	1.532	2.455	10.5	17.8
3 2	8 18.46	+14 42.2	1.589	2.445	14.6	18.1

314006 2004 UX_{3} 1 30.0 182.°99 0.°2/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.45	+16 44.9	2.053	2.824	14.6	21.9
1 2	9 13.09	+17 1.6	1.961	2.825	11.5	21.7
1 12	9 5.23	+17 27.1	1.893	2.825	7.7	21.5
1 22	8 55.44	+17 58.1	1.851	2.825	3.5	21.2
2 1	8 44.64	+18 30.0	1.839	2.824	0.9	21.0
2 11	8 33.99	+18 58.4	1.858	2.822	5.3	21.3
2 21	8 24.60	+19 20.3	1.905	2.819	9.4	21.6
3 2	8 17.36	+19 34.0	1.978	2.815	12.9	21.8

323460 2004 JO_{18} 1 30.0 219.°12 1.°4/29.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.34	+18 34.0	2.020	2.806	14.3	21.0
1 2	9 9.29	+19 19.8	1.928	2.802	11.1	20.8
1 12	9 2.79	+20 15.4	1.859	2.797	7.4	20.5
1 22	8 54.37	+21 16.1	1.818	2.793	3.4	20.3
2 1	8 44.90	+22 15.8	1.805	2.788	1.9	20.1
2 11	8 35.51	+23 8.7	1.823	2.782	5.8	20.4
2 21	8 27.29	+23 50.5	1.868	2.777	9.8	20.6
3 2	8 21.14	+24 19.4	1.937	2.771	13.3	20.8

335985 2007 TD_{248} 1 30.0 160.°90 0.°5/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.39	+15 51.0	2.582	3.347	12.1	20.8
1 2	9 8.58	+15 51.5	2.490	3.350	9.5	20.6
1 12	9 1.89	+15 58.6	2.423	3.354	6.4	20.4
1 22	8 53.82	+16 10.3	2.384	3.357	3.0	20.2
2 1	8 45.07	+16 24.0	2.375	3.360	0.8	20.0
2 11	8 36.47	+16 36.9	2.397	3.362	4.2	20.3
2 21	8 28.83	+16 47.1	2.449	3.364	7.5	20.5
3 2	8 22.78	+16 53.0	2.527	3.366	10.4	20.7

431527 2007 TX_{268} 1 30.0 94.°50 2.°0/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.03	+ 9 32.2	2.428	3.181	13.1	21.5
1 2	9 6.78	+ 9 41.1	2.349	3.197	10.4	21.3
1 12	9 0.69	+10 1.7	2.292	3.213	7.3	21.2
1 22	8 53.27	+10 32.2	2.263	3.228	4.1	21.0
2 1	8 45.21	+11 10.0	2.263	3.243	2.0	20.9
2 11	8 37.36	+11 51.2	2.293	3.258	4.3	21.0
2 21	8 30.47	+12 32.4	2.353	3.273	7.5	21.3
3 2	8 25.18	+13 10.3	2.439	3.288	10.4	21.5