150342 1999 XJ_{89} 1 11.9 349.°48 2.°0/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	7 59.24	+19 15.7	1.212	2.011	21.3	19.3
12 13	7 56.98	+18 42.1	1.133	2.007	17.3	19.0
12 23	7 50.91	+18 16.0	1.071	2.003	12.3	18.7
1 2	7 41.61	+17 57.1	1.031	2.000	6.7	18.4
1 12	7 30.47	+17 43.8	1.015	1.998	2.0	18.1
1 22	7 19.27	+17 34.4	1.025	1.996	6.4	18.3
2 1	7 9.87	+17 27.7	1.059	1.995	12.1	18.7
2 11	7 3.70	+17 22.7	1.114	1.995	17.1	18.9

236077 2005 JM_{148} 1 11.9 279.°18 6.°3/14.4 18

12 3	7 54.73	+ 2 30.1	2.466	3.166	14.3	20.7
12 13	7 51.29	+ 1 52.4	2.349	3.144	12.3	20.5
12 23	7 45.81	+ 1 27.7	2.253	3.122	10.0	20.3
1 2	7 38.67	+ 1 18.6	2.181	3.100	7.7	20.1
1 12	7 30.48	+ 1 26.5	2.136	3.077	6.4	20.0
1 22	7 22.06	+ 1 51.1	2.119	3.054	6.9	20.0
2 1	7 14.26	+ 2 30.4	2.131	3.031	9.0	20.1
2 11	7 7.90	+ 3 20.9	2.168	3.008	11.6	20.2

465167 2007 EE_{14} 1 11.9 342.°07 1.°7/12.6 18

12 3	7 49.77	+15 26.9	1.289	2.093	20.0	20.4
12 13	7 49.35	+15 44.4	1.198	2.075	16.3	20.1
12 23	7 45.62	+16 19.3	1.125	2.058	11.8	19.7
1 2	7 38.97	+17 10.8	1.073	2.042	6.5	19.4
1 12	7 30.48	+18 14.6	1.046	2.028	1.7	19.0
1 22	7 21.62	+19 24.4	1.043	2.016	5.9	19.3
2 1	7 14.09	+20 33.0	1.065	2.006	11.5	19.6
2 11	7 9.35	+21 34.7	1.109	1.997	16.6	19.8

204304 2004 PW_{90} 1 11.9 58.°31 1.°7/12.5 18

12 3	8 2.77	+16 59.5	1.334	2.115	20.6	20.1
12 13	7 58.91	+16 58.4	1.278	2.141	16.5	19.9
12 23	7 51.60	+17 9.6	1.240	2.166	11.6	19.7
1 2	7 41.66	+17 30.6	1.225	2.192	6.2	19.4
1 12	7 30.48	+17 57.7	1.237	2.219	1.7	19.2
1 22	7 19.66	+18 26.4	1.275	2.245	5.6	19.5
2 1	7 10.72	+18 53.5	1.339	2.271	10.5	19.9
2 11	7 4.70	+19 16.9	1.427	2.297	14.7	20.2

207057 2004 XF_{74} 1 11.9 357.°43 2.°5/12.3 18

12 3	7 58.59	+19 14.2	1.266	2.063	20.7	19.5
12 13	7 56.24	+18 26.1	1.187	2.059	16.8	19.2
12 23	7 50.23	+17 43.9	1.126	2.057	12.0	18.9
1 2	7 41.21	+17 7.8	1.088	2.055	6.7	18.6
1 12	7 30.51	+16 37.7	1.074	2.055	2.5	18.4
1 22	7 19.83	+16 13.2	1.085	2.055	6.3	18.6
2 1	7 10.89	+15 54.0	1.121	2.057	11.7	18.9
2 11	7 4.99	+15 39.6	1.179	2.059	16.5	19.2

44767 1999 TK_{124} 1 11.9 65.°17 1.°4/12.4 18

12 3	8 2.11	+16 44.1	1.269	2.055	21.2	18.9
12 13	7 58.78	+16 57.0	1.206	2.072	17.1	18.7
12 23	7 51.80	+17 24.1	1.161	2.089	12.0	18.5
1 2	7 41.91	+18 2.7	1.139	2.107	6.4	18.2
1 12	7 30.51	+18 47.6	1.142	2.125	1.4	17.9
1 22	7 19.33	+19 32.9	1.172	2.143	5.8	18.3
2 1	7 10.02	+20 14.1	1.227	2.160	11.1	18.6
2 11	7 3.80	+20 48.8	1.305	2.178	15.7	18.9

312280 2008 AR_{127} 1 11.9 9.°25 0.°8/12.2 18

12 3	7 58.01	+18 54.0	1.527	2.310	18.4	21.3
12 13	7 55.16	+18 56.4	1.445	2.310	14.8	21.0
12 23	7 49.16	+19 8.3	1.383	2.311	10.4	20.8
1 2	7 40.56	+19 27.7	1.344	2.313	5.5	20.5
1 12	7 30.51	+19 51.1	1.332	2.315	0.8	20.2
1 22	7 20.43	+20 14.7	1.347	2.318	5.2	20.5
2 1	7 11.76	+20 35.8	1.388	2.320	10.2	20.8
2 11	7 5.69	+20 52.7	1.453	2.324	14.5	21.1

377189 2003 UZ_{343} 1 11.9 146.°35 5.°0/14.3 18

12 3	7 56.10	+ 5 2.1	2.470	3.178	14.1	22.1
12 13	7 52.14	+ 4 40.6	2.379	3.184	11.8	21.9
12 23	7 46.22	+ 4 32.1	2.309	3.190	9.2	21.8
1 2	7 38.79	+ 4 37.8	2.264	3.196	6.7	21.6
1 12	7 30.53	+ 4 57.8	2.247	3.201	5.1	21.5
1 22	7 22.24	+ 5 30.4	2.259	3.206	5.7	21.6
2 1	7 14.74	+ 6 13.0	2.301	3.210	8.0	21.7
2 11	7 8.73	+ 7 2.0	2.369	3.215	10.6	21.9

399525 2002 YU_{27} 1 11.9 31.°82 1.°5/12.1 17 R

12 3	8 3.81	+22 15.4	1.290	2.081	20.7	19.8
12 13	7 59.86	+21 13.4	1.230	2.099	16.5	19.5
12 23	7 52.30	+20 14.1	1.188	2.118	11.6	19.3
1 2	7 42.01	+19 17.4	1.170	2.139	6.1	19.1
1 12	7 30.52	+18 23.7	1.178	2.160	1.6	18.8
1 22	7 19.54	+17 34.1	1.212	2.182	5.8	19.2
2 1	7 10.60	+16 50.0	1.273	2.206	10.9	19.5
2 11	7 4.73	+16 12.3	1.356	2.229	15.2	19.8

280516 2004 PW_{69} 1 11.9 151.°11 2.°2/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 3	8 2.66	+15 9.9	1.880	2.629	16.6	21.8
12 13	7 58.07	+15 3.6	1.795	2.637	13.4	21.6
12 23	7 50.74	+15 7.3	1.730	2.645	9.7	21.3
1 2	7 41.23	+15 20.1	1.690	2.652	5.5	21.1
1 12	7 30.53	+15 39.8	1.678	2.658	2.3	20.9
1 22	7 19.84	+16 3.8	1.697	2.664	4.9	21.1
2 1	7 10.36	+16 29.4	1.744	2.669	9.0	21.3
2 11	7 3.08	+16 54.5	1.816	2.674	12.7	21.6

118030 2325 $T\text{-}_2$ 1 11.9 112.°78 2.°6/12.9 18

12 3	7 59.23	+13 45.0	1.886	2.638	16.4	20.0
12 13	7 55.33	+13 40.8	1.802	2.646	13.3	19.8
12 23	7 48.81	+13 47.8	1.739	2.654	9.7	19.6
1 2	7 40.24	+14 5.6	1.701	2.662	5.7	19.3
1 12	7 30.53	+14 32.0	1.691	2.670	2.7	19.2
1 22	7 20.84	+15 4.2	1.710	2.677	4.9	19.3
2 1	7 12.29	+15 38.9	1.757	2.684	8.8	19.6
2 11	7 5.82	+16 13.5	1.830	2.691	12.5	19.8

16920 Larrywalker 1 11.9 150.°96 1.°7/12.7 18

12 3	7 57.72	+15 28.4	2.061	2.814	15.2	18.5
12 13	7 54.00	+15 37.4	1.970	2.816	12.3	18.3
12 23	7 47.84	+15 56.4	1.900	2.818	8.8	18.0
1 2	7 39.74	+16 24.2	1.856	2.820	4.9	17.8
1 12	7 30.54	+16 58.1	1.841	2.822	1.7	17.6
1 22	7 21.27	+17 35.1	1.854	2.823	4.3	17.8
2 1	7 13.00	+18 12.1	1.897	2.825	8.2	18.0
2 11	7 6.62	+18 46.7	1.966	2.826	11.8	18.2

206893 2004 HZ_6 1 11.9 303.°16 1.°8/12.8 18

12 3	7 54.61	+15 9.3	2.284	3.036	13.9	20.6
12 13	7 51.40	+15 12.2	2.178	3.024	11.3	20.4
12 23	7 45.99	+15 24.2	2.095	3.012	8.1	20.2
1 2	7 38.81	+15 44.5	2.037	3.000	4.6	19.9
1 12	7 30.57	+16 11.3	2.008	2.988	1.8	19.7
1 22	7 22.16	+16 42.2	2.008	2.977	4.1	19.9
2 1	7 14.55	+17 14.6	2.038	2.965	7.8	20.1
2 11	7 8.59	+17 46.3	2.093	2.954	11.1	20.2

77868 2001 RY_{154} 1 11.9 3.°54 4.°0/14.0 18

12 3	7 53.82	+ 7 44.1	2.120	2.855	15.3	18.9
12 13	7 50.81	+ 7 51.1	2.027	2.855	12.7	18.7
12 23	7 45.58	+ 8 13.3	1.955	2.855	9.6	18.5
1 2	7 38.58	+ 8 51.1	1.908	2.856	6.4	18.3
1 12	7 30.57	+ 9 42.8	1.888	2.857	4.1	18.1
1 22	7 22.46	+10 45.3	1.897	2.858	5.2	18.2
2 1	7 15.22	+11 54.0	1.935	2.859	8.3	18.4
2 11	7 9.68	+13 4.5	1.999	2.861	11.5	18.6

79527 1998 OL_{14} 1 12.0 234.°19 2.°6/11.3 18

12 13	8 1.27	+27 16.0	1.616	2.475	13.8	19.4
12 23	7 53.55	+27 41.7	1.539	2.464	9.8	19.1
1 2	7 42.94	+28 5.6	1.487	2.454	5.4	18.9
1 12	7 30.59	+28 22.0	1.463	2.442	2.6	18.6
1 22	7 18.02	+28 26.7	1.467	2.430	6.1	18.8
2 1	7 6.87	+28 18.5	1.499	2.418	10.7	19.1
2 11	6 58.46	+27 59.6	1.555	2.405	14.9	19.3
2 21	6 53.51	+27 33.0	1.631	2.391	18.4	19.5

157992 2000 KP_{52} 1 12.0 229.°38 2.°8/12.9 18

12 13	7 57.20	+13 46.3	1.718	2.562	13.9	21.2
12 23	7 50.41	+13 49.7	1.638	2.552	10.2	21.0
1 2	7 41.23	+14 4.3	1.582	2.543	6.0	20.7
1 12	7 30.59	+14 28.4	1.554	2.533	2.8	20.5
1 22	7 19.71	+14 59.1	1.555	2.522	5.3	20.6
2 1	7 9.92	+15 33.3	1.584	2.511	9.6	20.8
2 11	7 2.35	+16 8.0	1.638	2.499	13.7	21.0
2 21	6 57.67	+16 41.0	1.713	2.487	17.2	21.3

14019 Pourbus 1 12.0 208.°39 0.°2/12.1 18

12 13	7 58.55	+19 52.6	1.685	2.539	13.6	19.5
12 23	7 51.40	+20 13.9	1.611	2.535	9.6	19.3
1 2	7 41.75	+20 41.0	1.562	2.530	5.0	19.0
1 12	7 30.60	+21 10.2	1.542	2.525	0.2	18.6
1 22	7 19.29	+21 37.5	1.550	2.519	5.0	19.0
2 1	7 9.21	+22 0.3	1.587	2.513	9.6	19.2
2 11	7 1.54	+22 17.4	1.648	2.506	13.8	19.5
2 21	6 56.91	+22 28.8	1.731	2.499	17.2	19.7

521021 2015 CS_{68} 1 12.0 328.°21 3.°6/13.7 18

12 13	7 51.01	+ 9 28.1	2.217	3.046	11.7	21.4
12 23	7 45.62	+ 9 33.8	2.141	3.043	8.8	21.2
1 2	7 38.59	+ 9 51.7	2.091	3.041	5.8	21.0
1 12	7 30.61	+10 20.9	2.068	3.038	3.7	20.8
1 22	7 22.54	+10 59.3	2.075	3.036	4.9	20.9
2 1	7 15.27	+11 43.9	2.111	3.034	7.8	21.1
2 11	7 9.58	+12 31.3	2.173	3.032	10.9	21.3
2 21	7 5.97	+13 18.6	2.259	3.030	13.6	21.5

159469 2000 QZ_{117} 1 12.0 78°.09 1°.3/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 58.96	+18 46.0	1.449	2.308	15.1	19.4
12 23	7 51.63	+18 37.8	1.398	2.323	10.7	19.1
1 2	7 41.76	+18 35.8	1.370	2.337	5.7	18.9
1 12	7 30.61	+18 37.6	1.369	2.351	1.3	18.6
1 22	7 19.66	+18 40.8	1.395	2.365	5.3	18.9
2 1	7 10.33	+18 43.9	1.449	2.379	10.0	19.2
2 11	7 3.71	+18 45.9	1.527	2.393	14.2	19.5
2 21	7 0.29	+18 46.6	1.625	2.407	17.6	19.8

375416 2008 SF_{293} 1 12.0 42°.52 0°.1/11.9 18

12 13	7 53.83	+20 18.6	1.725	2.586	13.0	20.4
12 23	7 47.85	+20 51.8	1.674	2.602	9.0	20.2
1 2	7 39.77	+21 30.2	1.649	2.618	4.6	20.0
1 12	7 30.61	+22 9.6	1.651	2.635	0.1	19.6
1 22	7 21.54	+22 46.0	1.682	2.652	4.6	20.0
2 1	7 13.74	+23 16.5	1.741	2.669	8.8	20.3
2 11	7 8.13	+23 40.0	1.825	2.687	12.4	20.6
2 21	7 5.20	+23 56.5	1.930	2.705	15.4	20.8

387852 2004 PN_{55} 1 12.0 154°.06 0°.1/12.0 18

12 13	7 59.07	+19 55.1	2.020	2.865	12.1	22.5
12 23	7 51.33	+20 25.9	1.956	2.876	8.4	22.3
1 2	7 41.53	+21 1.2	1.919	2.886	4.3	22.1
1 12	7 30.62	+21 37.3	1.912	2.895	0.1	21.7
1 22	7 19.70	+22 10.6	1.935	2.903	4.3	22.1
2 1	7 9.92	+22 38.7	1.988	2.910	8.3	22.4
2 11	7 2.22	+23 0.7	2.068	2.916	11.8	22.6
2 21	6 57.13	+23 16.7	2.171	2.922	14.7	22.8

373300 2012 HQ_{72} 1 12.0 154°.13 2°.8/13.2 18

12 13	7 53.66	+11 39.6	2.532	3.358	10.6	21.5
12 23	7 47.23	+11 40.2	2.463	3.366	7.8	21.3
1 2	7 39.32	+11 49.5	2.420	3.374	4.8	21.2
1 12	7 30.62	+12 6.6	2.408	3.381	2.8	21.0
1 22	7 21.91	+12 29.7	2.426	3.388	4.1	21.1
2 1	7 14.00	+12 56.8	2.474	3.394	7.0	21.3
2 11	7 7.57	+13 25.8	2.550	3.399	9.8	21.5
2 21	7 3.06	+13 54.8	2.649	3.404	12.2	21.7

98665 2000 WH_{159} 1 12.0 320°.25 6°.4/11.7 18

12 13	8 2.72	+13 41.0	1.367	2.213	16.6	18.0
12 23	7 54.62	+11 32.2	1.289	2.200	12.6	17.7
1 2	7 43.51	+ 9 26.1	1.235	2.187	8.5	17.4
1 12	7 30.62	+ 7 29.0	1.209	2.175	6.4	17.3
1 22	7 17.59	+ 5 47.6	1.211	2.164	8.8	17.4
2 1	7 6.11	+ 4 26.7	1.240	2.152	13.1	17.6
2 11	6 57.54	+ 3 27.4	1.293	2.142	17.4	17.8
2 21	6 52.58	+ 2 47.1	1.363	2.132	21.0	18.0

85128 1979 HA 1 12.0 285°.66 13°.4/ 3.6 18

12 13	8 7.70	+51 8.6	1.633	2.448	15.9	17.5
12 23	7 59.86	+53 39.9	1.571	2.427	14.3	17.3
1 2	7 47.09	+55 51.5	1.532	2.407	13.4	17.2
1 12	7 30.62	+57 27.7	1.517	2.386	13.9	17.2
1 22	7 12.92	+58 18.5	1.525	2.365	15.5	17.2
2 1	6 57.14	+58 22.7	1.554	2.345	17.7	17.3
2 11	6 45.90	+57 48.0	1.600	2.324	20.0	17.5
2 21	6 40.41	+56 45.9	1.660	2.303	22.1	17.6

342905 2008 YP_{126} 1 12.0 269°.11 0°.4/11.8 18

12 13	7 52.56	+21 31.3	2.312	3.164	10.4	21.0
12 23	7 46.75	+22 3.6	2.235	3.159	7.3	20.8
1 2	7 39.20	+22 39.5	2.186	3.154	3.7	20.5
1 12	7 30.63	+23 15.8	2.166	3.149	0.5	20.3
1 22	7 21.94	+23 49.2	2.176	3.144	3.9	20.5
2 1	7 14.08	+24 17.5	2.216	3.139	7.5	20.8
2 11	7 7.87	+24 39.7	2.282	3.134	10.7	20.9
2 21	7 3.84	+24 55.6	2.371	3.129	13.4	21.1

399418 2001 VD_{77} 1 12.0 58°.24 3°.6/10.7 18

12 13	8 1.96	+27 45.0	1.519	2.379	14.5	19.8
12 23	7 53.54	+29 2.0	1.497	2.422	10.1	19.6
1 2	7 42.63	+30 14.2	1.500	2.465	5.7	19.5
1 12	7 30.63	+31 13.9	1.531	2.507	3.7	19.5
1 22	7 19.11	+31 56.2	1.592	2.549	6.5	19.7
2 1	7 9.50	+32 20.1	1.679	2.590	10.3	20.1
2 11	7 2.77	+32 28.2	1.790	2.631	13.7	20.4
2 21	6 59.30	+32 24.2	1.922	2.671	16.4	20.6

330476 2007 FH_{6} 1 12.0 133°.96 3°.0/13.2 18

12 13	7 53.70	+12 5.4	1.978	2.815	12.6	21.6
12 23	7 47.62	+12 11.5	1.909	2.819	9.2	21.4
1 2	7 39.65	+12 28.9	1.865	2.822	5.6	21.2
1 12	7 30.64	+12 56.0	1.849	2.825	3.1	21.0
1 22	7 21.57	+13 30.3	1.862	2.827	4.8	21.1
2 1	7 13.48	+14 8.8	1.905	2.830	8.3	21.3
2 11	7 7.24	+14 48.3	1.973	2.833	11.7	21.6
2 21	7 3.39	+15 26.3	2.063	2.835	14.7	21.8

263918 2009 FV_{69} 1 12.0 323°.71 1°.6/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 55.68	+23 16.4	1.437	2.307	14.6	20.7
12 23	7 49.80	+24 0.6	1.367	2.298	10.2	20.4
1 2	7 41.09	+24 49.5	1.321	2.291	5.3	20.1
1 12	7 30.64	+25 36.9	1.301	2.283	1.6	19.9
1 22	7 19.95	+26 17.1	1.308	2.276	5.9	20.1
2 1	7 10.64	+26 46.3	1.342	2.269	10.9	20.4
2 11	7 4.05	+27 3.8	1.399	2.263	15.4	20.6
2 21	7 0.90	+27 10.8	1.474	2.257	19.0	20.9

245568 2005 UR_{150} 1 12.0 1°.39 5°.2/10.4 18 R

12 13	7 57.24	+29 26.6	1.122	2.003	16.8	19.6
12 23	7 51.48	+30 36.6	1.067	2.001	12.1	19.3
1 2	7 42.13	+31 44.2	1.035	2.001	7.3	19.0
1 12	7 30.64	+32 38.8	1.026	2.000	5.3	18.9
1 22	7 19.03	+33 12.4	1.042	2.001	8.7	19.1
2 1	7 9.42	+33 22.5	1.082	2.003	13.6	19.4
2 11	7 3.40	+33 12.1	1.142	2.006	18.1	19.6
2 21	7 1.63	+32 46.6	1.218	2.009	21.9	19.9

187201 2005 SG_{83} 1 12.0 227°.81 1°.5/12.5 18

12 13	7 54.95	+17 4.6	1.878	2.728	12.6	20.8
12 23	7 48.63	+17 11.4	1.806	2.726	9.0	20.6
1 2	7 40.23	+17 25.4	1.758	2.724	4.9	20.3
1 12	7 30.65	+17 44.4	1.739	2.721	1.5	20.1
1 22	7 20.97	+18 5.7	1.750	2.719	4.5	20.3
2 1	7 12.34	+18 27.1	1.788	2.716	8.6	20.5
2 11	7 5.74	+18 46.8	1.853	2.713	12.4	20.7
2 21	7 1.74	+19 3.7	1.938	2.710	15.5	21.0

398672 2012 VK_{28} 1 12.0 356°.81 2°.3/12.5 17

12 13	7 55.86	+17 7.2	1.108	1.982	17.6	21.1
12 23	7 50.22	+16 57.3	1.048	1.979	12.6	20.8
1 2	7 41.37	+16 58.3	1.009	1.977	7.0	20.5
1 12	7 30.64	+17 8.0	0.994	1.976	2.3	20.2
1 22	7 19.84	+17 23.0	1.004	1.975	6.4	20.5
2 1	7 10.79	+17 40.2	1.038	1.976	12.1	20.8
2 11	7 4.94	+17 57.0	1.093	1.977	17.2	21.1
2 21	7 2.93	+18 11.6	1.166	1.979	21.3	21.4

455079 2015 UU_{51} 1 12.0 149°.09 2°.9/13.2 18

12 13	7 57.84	+11 37.5	1.979	2.809	12.9	21.8
12 23	7 50.44	+11 58.1	1.915	2.821	9.4	21.6
1 2	7 41.09	+12 30.5	1.876	2.832	5.7	21.4
1 12	7 30.65	+13 12.6	1.867	2.843	3.0	21.2
1 22	7 20.21	+14 0.7	1.887	2.852	4.8	21.4
2 1	7 10.85	+14 51.3	1.938	2.861	8.4	21.6
2 11	7 3.48	+15 40.9	2.016	2.868	11.8	21.8
2 21	6 58.61	+16 27.3	2.116	2.875	14.7	22.0

197036 2003 UQ_{132} 1 12.0 14°.76 8°.2/ 9.2 18

12 13	7 58.83	+41 46.8	1.740	2.586	13.6	19.1
12 23	7 51.89	+42 51.8	1.689	2.589	10.9	18.9
1 2	7 42.06	+43 41.8	1.662	2.593	8.7	18.8
1 12	7 30.65	+44 8.8	1.661	2.598	8.3	18.7
1 22	7 19.30	+44 9.0	1.686	2.603	9.8	18.8
2 1	7 9.67	+43 43.1	1.735	2.608	12.3	19.0
2 11	7 2.99	+42 56.3	1.807	2.614	15.0	19.2
2 21	6 59.82	+41 55.2	1.898	2.621	17.4	19.4

99198 2001 HN_{3} 1 12.0 164°.81 1°.2/12.6 18

12 13	7 52.92	+16 39.8	2.618	3.457	9.8	19.7
12 23	7 46.74	+16 51.4	2.546	3.461	7.0	19.5
1 2	7 39.10	+17 8.6	2.502	3.465	3.8	19.3
1 12	7 30.65	+17 29.4	2.487	3.468	1.2	19.2
1 22	7 22.18	+17 51.9	2.504	3.471	3.5	19.3
2 1	7 14.47	+18 14.3	2.550	3.474	6.6	19.5
2 11	7 8.20	+18 35.3	2.625	3.476	9.5	19.7
2 21	7 3.82	+18 54.0	2.723	3.478	11.9	19.9

114521 2003 BP_{11} 1 12.0 272°.52 2°.4/13.4 17

12 13	7 51.18	+11 8.6	2.497	3.326	10.6	19.9
12 23	7 45.72	+11 43.8	2.406	3.312	7.8	19.7
1 2	7 38.67	+12 30.4	2.342	3.298	4.8	19.4
1 12	7 30.65	+13 26.6	2.307	3.283	2.5	19.3
1 22	7 22.43	+14 29.1	2.304	3.269	4.0	19.3
2 1	7 14.83	+15 34.4	2.330	3.255	7.1	19.5
2 11	7 8.63	+16 39.1	2.385	3.240	10.1	19.7
2 21	7 4.34	+17 40.4	2.463	3.226	12.8	19.9

382114 2011 HU_{32} 1 12.0 125°.47 0°.8/12.4 18

12 13	7 52.63	+17 42.4	2.532	3.375	10.0	21.4
12 23	7 46.56	+18 6.4	2.467	3.385	7.0	21.2
1 2	7 39.01	+18 35.6	2.430	3.395	3.7	21.0
1 12	7 30.66	+19 7.6	2.422	3.405	0.8	20.8
1 22	7 22.30	+19 40.0	2.446	3.415	3.4	21.0
2 1	7 14.75	+20 10.6	2.500	3.424	6.7	21.3
2 11	7 8.70	+20 37.9	2.581	3.433	9.6	21.5
2 21	7 4.59	+21 1.2	2.685	3.441	12.0	21.7

285622 2000 RK_{21} 1 12.0 81°.87 1°.3/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 0.45	+18 14.8	1.510	2.364	14.9	21.0
12 23	7 52.45	+18 14.8	1.468	2.391	10.5	20.8
1 2	7 42.10	+18 21.3	1.451	2.417	5.5	20.6
1 12	7 30.66	+18 31.6	1.461	2.443	1.3	20.3
1 22	7 19.56	+18 42.7	1.499	2.469	5.1	20.7
2 1	7 10.14	+18 52.9	1.566	2.494	9.6	21.0
2 11	7 3.38	+19 1.2	1.657	2.519	13.5	21.3
2 21	6 59.70	+19 7.3	1.769	2.543	16.7	21.6

53666 2000 DK_{70} 1 12.0 177°.86 2°.1/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.88	+14 35.3	1.816	2.658	13.4	19.9
12 23	7 50.72	+14 53.8	1.745	2.660	9.6	19.7
1 2	7 41.33	+15 22.6	1.700	2.662	5.5	19.4
1 12	7 30.67	+15 59.1	1.682	2.663	2.1	19.2
1 22	7 19.89	+16 39.6	1.695	2.663	4.8	19.4
2 1	7 10.25	+17 20.7	1.736	2.662	9.0	19.6
2 11	7 2.75	+17 59.6	1.804	2.661	12.8	19.9
2 21	6 58.02	+18 34.6	1.893	2.659	16.0	20.1

457801 2009 RC_{3} 1 12.0 154°.63 0°.4/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.16	+20 39.6	2.261	3.106	11.0	21.3
12 23	7 49.81	+20 32.1	2.193	3.113	7.7	21.1
1 2	7 40.70	+20 26.8	2.153	3.119	4.0	20.9
1 12	7 30.67	+20 21.9	2.142	3.125	0.5	20.6
1 22	7 20.69	+20 16.1	2.162	3.131	3.9	20.9
2 1	7 11.74	+20 8.7	2.213	3.136	7.5	21.1
2 11	7 4.62	+19 59.7	2.291	3.140	10.7	21.4
2 21	6 59.80	+19 49.4	2.391	3.144	13.4	21.6

128795 2004 RG_{222} 1 12.0 111°.34 0°.9/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.49	+17 40.4	2.055	2.903	11.8	20.4
12 23	7 48.12	+18 2.2	1.993	2.913	8.3	20.2
1 2	7 39.90	+18 30.4	1.956	2.922	4.4	20.0
1 12	7 30.68	+19 2.3	1.949	2.931	0.9	19.7
1 22	7 21.46	+19 34.6	1.971	2.940	4.1	20.0
2 1	7 13.27	+20 4.9	2.023	2.949	7.9	20.2
2 11	7 6.95	+20 31.5	2.101	2.958	11.3	20.5
2 21	7 3.00	+20 53.6	2.201	2.966	14.1	20.7

332390 2007 HJ_{15} 1 12.0 233°.82 0°.2/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.47	+20 50.6	2.059	2.912	11.5	21.5
12 23	7 48.26	+21 21.0	1.983	2.907	8.1	21.3
1 2	7 40.05	+21 55.8	1.934	2.902	4.2	21.0
1 12	7 30.68	+22 31.6	1.914	2.897	0.2	20.7
1 22	7 21.18	+23 4.8	1.924	2.892	4.2	21.0
2 1	7 12.62	+23 33.0	1.963	2.887	8.2	21.2
2 11	7 5.96	+23 54.9	2.028	2.882	11.7	21.4
2 21	7 1.76	+24 10.4	2.114	2.876	14.7	21.6

355841 2008 UW_{52} 1 12.0 129°.67 1°.5/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.91	+17 7.3	1.703	2.551	13.8	21.7
12 23	7 51.41	+17 14.3	1.644	2.564	9.8	21.5
1 2	7 41.65	+17 28.9	1.611	2.576	5.3	21.2
1 12	7 30.69	+17 48.1	1.605	2.587	1.5	21.0
1 22	7 19.80	+18 9.2	1.629	2.598	4.8	21.2
2 1	7 10.27	+18 29.6	1.682	2.608	9.2	21.5
2 11	7 3.09	+18 47.8	1.760	2.618	13.0	21.8
2 21	6 58.80	+19 3.0	1.859	2.627	16.2	22.0

109761 2001 RG_{75} 1 12.0 166°.09 5°.1/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.30	+ 5 21.5	2.290	3.096	12.2	20.3
12 23	7 47.82	+ 5 4.3	2.218	3.101	9.5	20.1
1 2	7 39.71	+ 5 1.0	2.172	3.105	6.8	20.0
1 12	7 30.69	+ 5 11.9	2.153	3.109	5.2	19.9
1 22	7 21.63	+ 5 35.7	2.165	3.112	5.9	19.9
2 1	7 13.42	+ 6 10.0	2.205	3.114	8.3	20.1
2 11	7 6.81	+ 6 51.4	2.273	3.116	11.0	20.2
2 21	7 2.30	+ 7 36.3	2.363	3.118	13.5	20.4

381217 2007 RM_{211} 1 12.0 119°.52 1°.5/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.05	+26 10.0	2.641	3.489	9.5	22.0
12 23	7 48.19	+26 32.5	2.584	3.505	6.6	21.9
1 2	7 39.82	+26 53.7	2.556	3.522	3.5	21.7
1 12	7 30.69	+27 10.8	2.557	3.538	1.5	21.6
1 22	7 21.64	+27 21.9	2.590	3.553	3.8	21.8
2 1	7 13.50	+27 25.9	2.653	3.568	6.8	22.0
2 11	7 6.98	+27 23.5	2.744	3.583	9.5	22.2
2 21	7 2.48	+27 15.5	2.857	3.597	11.8	22.4

178920 2001 QO_{14} 1 12.0 116°.79 1°.0/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.42	+24 4.2	2.166	3.015	11.2	20.6
12 23	7 50.70	+24 22.7	2.114	3.035	7.8	20.4
1 2	7 41.15	+24 41.2	2.088	3.055	4.0	20.2
1 12	7 30.70	+24 56.4	2.092	3.074	1.0	20.0
1 22	7 20.40	+25 6.1	2.127	3.093	4.2	20.3
2 1	7 11.29	+25 9.4	2.192	3.111	7.8	20.5
2 11	7 4.17	+25 6.6	2.283	3.128	10.9	20.8
2 21	6 59.50	+24 59.0	2.397	3.145	13.5	21.0

518740 2009 PV_{21} 1 12.0 145°.47 4°.0/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 59.06	+32 53.8	2.103	2.952	11.5	21.6
12 23	7 51.44	+33 28.2	2.042	2.958	8.3	21.4
1 2	7 41.65	+33 55.9	2.008	2.964	5.3	21.2
1 12	7 30.70	+34 12.0	2.002	2.970	4.1	21.1
1 22	7 19.81	+34 13.6	2.026	2.976	6.1	21.3
2 1	7 10.20	+34 0.7	2.079	2.981	9.1	21.5
2 11	7 2.81	+33 35.7	2.157	2.986	12.1	21.7
2 21	6 58.20	+33 2.0	2.256	2.990	14.7	21.9

56332 1999 XR_{34} 1 12.0 53°.31 1°.0/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.39	+18 53.8	1.204	2.073	16.8	18.5
12 23	7 51.67	+19 1.6	1.154	2.084	11.8	18.2
1 2	7 41.97	+19 17.8	1.127	2.096	6.2	17.9
1 12	7 30.70	+19 38.3	1.124	2.107	1.0	17.6
1 22	7 19.59	+19 58.9	1.148	2.120	5.8	18.0
2 1	7 10.33	+20 16.7	1.198	2.132	11.2	18.3
2 11	7 4.17	+20 30.3	1.270	2.145	15.9	18.6
2 21	7 1.63	+20 39.4	1.360	2.158	19.6	18.9

208483 2001 UH_{190} 1 12.0 130°.01 0°.1/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.41	+20 46.3	2.551	3.397	9.8	21.4
12 23	7 47.10	+20 54.6	2.485	3.406	6.8	21.2
1 2	7 39.30	+21 5.5	2.447	3.414	3.5	21.0
1 12	7 30.71	+21 16.8	2.439	3.422	0.2	20.8
1 22	7 22.14	+21 26.8	2.461	3.430	3.4	21.1
2 1	7 14.41	+21 34.3	2.514	3.437	6.7	21.3
2 11	7 8.23	+21 38.8	2.594	3.445	9.6	21.5
2 21	7 4.02	+21 40.3	2.698	3.452	12.0	21.7

96651 1999 GT_{62} 1 12.0 199°.97 2°.0/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.68	+24 38.5	1.857	2.712	12.5	20.1
12 23	7 51.47	+25 35.0	1.785	2.709	8.8	19.8
1 2	7 41.82	+26 33.9	1.738	2.705	4.7	19.6
1 12	7 30.71	+27 29.2	1.721	2.701	2.1	19.4
1 22	7 19.39	+28 15.6	1.733	2.696	5.4	19.6
2 1	7 9.20	+28 49.9	1.775	2.691	9.5	19.8
2 11	7 1.29	+29 11.9	1.841	2.685	13.2	20.0
2 21	6 56.34	+29 23.2	1.929	2.678	16.3	20.2

431150 2006 QN_{151} 1 12.0 177°.38 0°.7/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.38	+18 26.3	2.455	3.301	10.2	21.6
12 23	7 46.49	+18 39.7	2.382	3.301	7.2	21.4
1 2	7 39.04	+18 57.9	2.335	3.301	3.8	21.2
1 12	7 30.71	+19 18.7	2.319	3.302	0.7	20.9
1 22	7 22.33	+19 40.1	2.333	3.302	3.6	21.2
2 1	7 14.75	+20 0.1	2.377	3.302	6.9	21.4
2 11	7 8.69	+20 17.6	2.447	3.302	10.0	21.6
2 21	7 4.65	+20 32.0	2.541	3.301	12.5	21.8

65413 2002 TB_{28} 1 12.0 54°.53 0°.2/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.42	+21 21.1	1.921	2.778	12.1	19.5
12 23	7 48.10	+21 38.5	1.870	2.796	8.4	19.3
1 2	7 39.88	+21 58.9	1.845	2.814	4.3	19.1
1 12	7 30.71	+22 19.3	1.849	2.832	0.2	18.7
1 22	7 21.67	+22 37.0	1.881	2.850	4.2	19.1
2 1	7 13.82	+22 50.2	1.943	2.869	8.1	19.4
2 11	7 7.99	+22 58.5	2.030	2.888	11.5	19.6
2 21	7 4.65	+23 2.0	2.138	2.907	14.3	19.9

225192 2008 JX_{5} 1 12.0 182°.76 4°.2/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.97	+33 4.9	2.305	3.152	10.7	20.6
12 23	7 50.68	+33 59.9	2.238	3.153	7.8	20.4
1 2	7 41.30	+34 49.4	2.198	3.153	5.2	20.2
1 12	7 30.72	+35 28.1	2.188	3.152	4.2	20.2
1 22	7 20.04	+35 52.3	2.208	3.152	6.1	20.3
2 1	7 10.41	+36 0.9	2.257	3.150	8.9	20.5
2 11	7 2.80	+35 55.4	2.331	3.148	11.7	20.6
2 21	6 57.78	+35 38.8	2.426	3.146	14.1	20.8

138670 2000 RH_{106} 1 12.0 201°.34 0°.7/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.83	+23 36.9	2.184	3.034	11.1	20.4
12 23	7 49.78	+23 45.5	2.108	3.031	7.8	20.2
1 2	7 40.79	+23 54.6	2.060	3.027	4.0	19.9
1 12	7 30.72	+24 1.5	2.041	3.023	0.7	19.7
1 22	7 20.59	+24 4.0	2.052	3.019	4.2	19.9
2 1	7 11.47	+24 1.2	2.093	3.014	8.0	20.2
2 11	7 4.25	+23 53.4	2.161	3.009	11.3	20.4
2 21	6 59.47	+23 41.5	2.251	3.004	14.1	20.6

372674 2009 WY_{118} 1 12.0 75°.65 3°.2/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.31	+28 40.7	1.903	2.762	12.0	21.0
12 23	7 49.66	+29 31.2	1.847	2.771	8.5	20.8
1 2	7 40.79	+30 19.1	1.816	2.780	4.9	20.6
1 12	7 30.72	+30 59.0	1.814	2.789	3.2	20.5
1 22	7 20.66	+31 26.7	1.841	2.798	5.7	20.7
2 1	7 11.84	+31 40.8	1.896	2.808	9.3	20.9
2 11	7 5.26	+31 42.3	1.975	2.817	12.6	21.2
2 21	7 1.46	+31 33.6	2.076	2.826	15.3	21.4

37360 2001 UZ_{24} 1 12.0 274.°61 0.°0/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 53.89	+22 0.5	2.316	3.167	10.5	18.8
12 23	7 47.62	+21 58.5	2.241	3.164	7.3	18.6
1 2	7 39.64	+21 58.1	2.193	3.161	3.8	18.4
1 12	7 30.72	+21 57.3	2.175	3.158	0.0	18.0
1 22	7 21.77	+21 54.6	2.186	3.155	3.8	18.3
2 1	7 13.72	+21 49.1	2.227	3.152	7.4	18.6
2 11	7 7.37	+21 40.8	2.295	3.149	10.6	18.8
2 21	7 3.22	+21 30.1	2.386	3.146	13.3	18.9

305646 2009 BX_{47} 1 12.0 148.°56 1.°3/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.81	+24 45.8	1.805	2.659	12.8	21.2
12 23	7 52.07	+24 59.6	1.742	2.666	9.0	20.9
1 2	7 42.02	+25 13.2	1.705	2.673	4.7	20.7
1 12	7 30.73	+25 22.5	1.697	2.679	1.3	20.5
1 22	7 19.50	+25 25.0	1.718	2.685	4.9	20.7
2 1	7 9.63	+25 19.9	1.768	2.690	9.2	21.0
2 11	7 2.15	+25 8.0	1.844	2.695	12.9	21.2
2 21	6 57.61	+24 51.3	1.940	2.699	15.9	21.5

423561 2005 UP_{422} 1 12.0 126.°78 3.°2/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.37	+29 20.3	1.971	2.827	11.8	21.7
12 23	7 50.36	+30 4.5	1.910	2.833	8.4	21.5
1 2	7 41.15	+30 45.4	1.876	2.839	4.9	21.3
1 12	7 30.73	+31 17.8	1.870	2.845	3.3	21.3
1 22	7 20.30	+31 38.1	1.894	2.851	5.7	21.4
2 1	7 11.10	+31 45.0	1.946	2.856	9.2	21.6
2 11	7 4.12	+31 39.7	2.023	2.861	12.4	21.9
2 21	6 59.91	+31 25.1	2.121	2.866	15.1	22.1

486727 2014 DN_{38} 1 12.0 254.°80 4.°9/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.16	+31 24.5	1.535	2.395	14.4	21.6
12 23	7 54.57	+32 16.1	1.456	2.379	10.5	21.4
1 2	7 43.70	+33 3.4	1.402	2.363	6.6	21.1
1 12	7 30.74	+33 37.7	1.375	2.346	4.9	21.0
1 22	7 17.39	+33 53.0	1.375	2.329	7.8	21.1
2 1	7 5.52	+33 47.5	1.402	2.311	12.1	21.3
2 11	6 56.69	+33 24.4	1.452	2.293	16.3	21.5
2 21	6 51.72	+32 48.7	1.521	2.275	19.8	21.7

459035 2011 YD_{61} 1 12.0 63.°44 1.°3/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 10.69	+28 59.1	1.491	2.339	15.4	20.2
12 23	7 59.39	+27 48.9	1.444	2.365	10.8	19.9
1 2	7 45.53	+26 29.6	1.424	2.391	5.6	19.7
1 12	7 30.75	+25 1.0	1.434	2.416	1.3	19.5
1 22	7 16.82	+23 26.8	1.475	2.442	5.4	19.8
2 1	7 5.24	+21 52.4	1.545	2.468	10.2	20.2
2 11	6 56.94	+20 23.2	1.642	2.494	14.2	20.5
2 21	6 52.19	+19 2.4	1.760	2.519	17.3	20.7

191815 2004 TR_{294} 1 12.0 57.°66 3.°0/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.52	+12 50.5	1.891	2.734	12.9	20.1
12 23	7 47.56	+12 49.3	1.826	2.739	9.4	19.9
1 2	7 39.68	+12 58.8	1.786	2.745	5.7	19.7
1 12	7 30.74	+13 17.7	1.774	2.751	3.0	19.6
1 22	7 21.80	+13 43.6	1.791	2.757	4.9	19.7
2 1	7 13.90	+14 13.8	1.836	2.763	8.5	19.9
2 11	7 7.93	+14 45.5	1.906	2.769	12.0	20.1
2 21	7 4.40	+15 16.4	1.998	2.775	14.9	20.4

182679 2001 VP_{6} 1 12.0 110.°34 2.°2/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.27	+26 30.3	1.885	2.742	12.2	20.7
12 23	7 50.29	+27 5.8	1.826	2.751	8.6	20.5
1 2	7 41.11	+27 40.3	1.792	2.759	4.6	20.3
1 12	7 30.75	+28 9.0	1.788	2.767	2.3	20.1
1 22	7 20.42	+28 28.4	1.813	2.776	5.2	20.3
2 1	7 11.35	+28 37.1	1.866	2.784	9.0	20.6
2 11	7 4.52	+28 35.9	1.944	2.791	12.5	20.8
2 21	7 0.47	+28 26.7	2.044	2.799	15.3	21.0

35865 1999 JL_{68} 1 12.0 184.°06 0.°4/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.73	+19 6.6	1.896	2.745	12.6	19.3
12 23	7 50.62	+19 32.9	1.824	2.745	8.8	19.1
1 2	7 41.32	+20 5.3	1.778	2.745	4.6	18.8
1 12	7 30.75	+20 40.1	1.761	2.745	0.4	18.5
1 22	7 20.08	+21 13.6	1.774	2.743	4.5	18.8
2 1	7 10.50	+21 43.1	1.817	2.741	8.7	19.1
2 11	7 3.04	+22 7.2	1.885	2.739	12.5	19.3
2 21	6 58.30	+22 25.6	1.975	2.736	15.6	19.5

414190 2008 CC_{171} 1 12.0 180.°93 2.°1/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.64	+14 55.2	2.171	3.008	11.6	21.9
12 23	7 48.89	+14 56.3	2.097	3.009	8.4	21.7
1 2	7 40.33	+15 5.1	2.049	3.010	4.8	21.5
1 12	7 30.75	+15 19.9	2.031	3.010	2.1	21.3
1 22	7 21.11	+15 38.9	2.043	3.009	4.3	21.4
2 1	7 12.40	+15 59.8	2.085	3.008	7.8	21.6
2 11	7 5.46	+16 21.0	2.153	3.007	11.2	21.8
2 21	7 0.81	+16 41.1	2.244	3.005	14.0	22.0

96912 1999 TB_{103} 1 12.0 80.°24 0.°8/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 54.52	+16 47.9	1.962	2.811	12.2	19.1
12 23	7 48.20	+17 33.3	1.907	2.828	8.6	18.9
1 2	7 39.98	+18 26.7	1.878	2.844	4.5	18.7
1 12	7 30.76	+19 24.1	1.879	2.861	0.8	18.5
1 22	7 21.57	+20 21.0	1.909	2.878	4.1	18.8
2 1	7 13.46	+21 13.8	1.968	2.895	8.0	19.0
2 11	7 7.29	+22 0.2	2.054	2.911	11.5	19.3
2 21	7 3.55	+22 39.1	2.162	2.928	14.3	19.5

344853 2004 GM_{80} 1 12.0 196.°97 5.°5/ 9.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.86	+41 22.8	2.851	3.677	9.5	21.6
12 23	7 50.41	+42 5.5	2.784	3.675	7.5	21.5
1 2	7 41.10	+42 38.1	2.745	3.672	5.9	21.4
1 12	7 30.76	+42 56.0	2.735	3.669	5.5	21.4
1 22	7 20.40	+42 57.0	2.753	3.665	6.7	21.4
2 1	7 11.03	+42 41.0	2.800	3.662	8.6	21.5
2 11	7 3.51	+42 10.5	2.872	3.658	10.6	21.7
2 21	6 58.36	+41 29.0	2.966	3.653	12.4	21.8

243189 2007 TY_{288} 1 12.0 115.°43 0.°5/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.24	+21 11.4	2.338	3.188	10.4	20.2
12 23	7 47.19	+21 56.6	2.272	3.195	7.2	20.0
1 2	7 39.45	+22 45.6	2.234	3.202	3.7	19.8
1 12	7 30.76	+23 34.7	2.225	3.208	0.5	19.6
1 22	7 22.02	+24 20.2	2.247	3.215	3.9	19.9
2 1	7 14.13	+24 59.6	2.299	3.221	7.3	20.1
2 11	7 7.90	+25 31.6	2.378	3.227	10.4	20.3
2 21	7 3.83	+25 56.1	2.480	3.233	13.0	20.5

88607 2001 QE_{296} 1 12.0 133.°08 1.°2/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.37	+23 57.3	1.877	2.726	12.6	20.6
12 23	7 53.02	+24 23.0	1.822	2.744	8.8	20.4
1 2	7 42.46	+24 49.2	1.793	2.760	4.5	20.2
1 12	7 30.77	+25 11.5	1.794	2.776	1.2	20.0
1 22	7 19.22	+25 26.8	1.825	2.791	4.8	20.2
2 1	7 9.05	+25 33.9	1.885	2.805	8.8	20.5
2 11	7 1.24	+25 33.4	1.972	2.818	12.4	20.8
2 21	6 56.30	+25 27.1	2.080	2.830	15.3	21.0

146065 2000 FW_{60} 1 12.0 229.°50 4.°2/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.10	+30 39.7	1.994	2.848	11.8	20.5
12 23	7 51.13	+31 53.1	1.920	2.840	8.5	20.3
1 2	7 41.71	+33 4.3	1.873	2.832	5.4	20.1
1 12	7 30.77	+34 6.0	1.855	2.823	4.3	20.0
1 22	7 19.54	+34 52.8	1.866	2.814	6.6	20.1
2 1	7 9.38	+35 22.0	1.905	2.805	10.0	20.3
2 11	7 1.45	+35 34.5	1.969	2.795	13.2	20.5
2 21	6 56.45	+35 33.2	2.054	2.784	16.0	20.7

464778 2003 US_{378} 1 12.0 22.°03 5.°8/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 51.88	+ 5 6.8	1.894	2.714	13.8	21.3
12 23	7 46.43	+ 4 55.0	1.826	2.716	10.8	21.2
1 2	7 39.12	+ 5 0.5	1.782	2.719	7.8	21.0
1 12	7 30.77	+ 5 23.4	1.765	2.722	5.9	20.9
1 22	7 22.37	+ 6 1.9	1.775	2.725	6.6	20.9
2 1	7 14.92	+ 6 52.3	1.812	2.729	9.3	21.1
2 11	7 9.30	+ 7 50.0	1.875	2.733	12.4	21.3
2 21	7 6.04	+ 8 50.2	1.959	2.737	15.2	21.5

233043 2005 GQ_{28} 1 12.0 290.°36 3.°9/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.10	+ 9 46.7	2.192	3.021	11.9	20.1
12 23	7 46.45	+ 9 31.3	2.114	3.016	8.9	19.9
1 2	7 39.09	+ 9 27.0	2.062	3.011	5.9	19.7
1 12	7 30.77	+ 9 33.8	2.038	3.006	4.0	19.6
1 22	7 22.36	+ 9 50.3	2.042	3.001	5.2	19.7
2 1	7 14.76	+10 14.6	2.076	2.996	8.1	19.8
2 11	7 8.79	+10 43.9	2.136	2.992	11.1	20.0
2 21	7 4.94	+11 15.5	2.218	2.987	13.9	20.2

74304 1998 TA_{13} 1 12.0 270.°61 0.°9/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.61	+18 27.8	2.101	2.951	11.5	20.7
12 23	7 47.58	+18 37.4	2.028	2.949	8.1	20.5
1 2	7 39.70	+18 52.4	1.980	2.947	4.3	20.2
1 12	7 30.78	+19 10.6	1.962	2.944	0.9	20.0
1 22	7 21.78	+19 29.5	1.973	2.942	4.0	20.2
2 1	7 13.71	+19 47.3	2.013	2.940	7.9	20.4
2 11	7 7.45	+20 2.6	2.079	2.938	11.3	20.6
2 21	7 3.51	+20 14.7	2.168	2.935	14.2	20.8

420791 2013 GV_{109} 1 12.0 163.°61 4.°1/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.80	+31 31.1	2.176	3.025	11.1	21.4
12 23	7 51.36	+32 41.1	2.114	3.031	8.1	21.2
1 2	7 41.71	+33 47.1	2.079	3.035	5.2	21.0
1 12	7 30.79	+34 42.6	2.073	3.040	4.1	21.0
1 22	7 19.74	+35 23.2	2.098	3.043	6.2	21.1
2 1	7 9.80	+35 47.1	2.151	3.046	9.2	21.3
2 11	7 1.97	+35 55.5	2.230	3.049	12.1	21.5
2 21	6 56.85	+35 51.4	2.330	3.051	14.6	21.7

135711 2002 PF_{48} 1 12.0 66°.36 2°.0/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 2.33	+27 34.0	1.520	2.380	14.5	19.2
12 23	7 53.87	+27 22.1	1.475	2.401	10.1	19.0
1 2	7 42.90	+27 5.8	1.455	2.422	5.4	18.8
1 12	7 30.79	+26 41.8	1.462	2.444	2.0	18.6
1 22	7 19.13	+26 9.3	1.498	2.465	5.5	18.9
2 1	7 9.33	+25 29.8	1.562	2.486	9.9	19.2
2 11	7 2.41	+24 46.5	1.651	2.507	13.8	19.5
2 21	6 58.76	+24 2.1	1.759	2.529	16.9	19.7

398347 2011 QC_{93} 1 12.0 204°.84 3°.3/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.61	+12 35.6	1.828	2.664	13.5	21.9
12 23	7 50.59	+12 30.1	1.750	2.660	10.0	21.7
1 2	7 41.35	+12 35.7	1.698	2.655	6.1	21.4
1 12	7 30.79	+12 51.3	1.673	2.649	3.3	21.3
1 22	7 20.08	+13 14.6	1.678	2.643	5.3	21.4
2 1	7 10.43	+13 42.9	1.712	2.636	9.2	21.6
2 11	7 2.88	+14 13.6	1.771	2.628	13.0	21.8
2 21	6 58.06	+14 44.1	1.852	2.620	16.3	22.0

358105 2006 KT_{90} 1 12.0 315°.21 1°.3/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.14	+22 12.9	1.405	2.274	14.9	20.8
12 23	7 50.22	+23 0.4	1.334	2.265	10.5	20.5
1 2	7 41.40	+23 54.3	1.287	2.257	5.4	20.2
1 12	7 30.79	+24 48.4	1.267	2.249	1.3	19.9
1 22	7 19.90	+25 36.1	1.273	2.242	5.9	20.1
2 1	7 10.39	+26 13.4	1.306	2.235	11.1	20.4
2 11	7 3.63	+26 38.7	1.362	2.228	15.6	20.7
2 21	7 0.39	+26 53.1	1.436	2.221	19.4	20.9

131158 2001 CD_{18} 1 12.0 282°.47 0°.7/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.40	+19 14.3	2.022	2.874	11.8	20.0
12 23	7 48.33	+19 20.6	1.934	2.856	8.4	19.8
1 2	7 40.19	+19 31.8	1.872	2.839	4.4	19.5
1 12	7 30.79	+19 45.8	1.839	2.822	0.7	19.2
1 22	7 21.17	+20 0.1	1.835	2.804	4.3	19.4
2 1	7 12.44	+20 12.9	1.860	2.787	8.4	19.7
2 11	7 5.58	+20 23.0	1.911	2.770	12.1	19.8
2 21	7 1.23	+20 30.0	1.983	2.752	15.3	20.0

309312 2007 RA_{287} 1 12.0 98°.23 2°.0/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.39	+24 43.2	1.631	2.491	13.7	21.0
12 23	7 51.93	+25 30.3	1.581	2.508	9.5	20.8
1 2	7 42.01	+26 18.2	1.557	2.524	5.0	20.6
1 12	7 30.80	+27 0.9	1.560	2.541	2.0	20.4
1 22	7 19.71	+27 33.7	1.592	2.557	5.5	20.7
2 1	7 10.13	+27 54.7	1.652	2.573	9.8	21.0
2 11	7 3.13	+28 4.3	1.737	2.588	13.5	21.2
2 21	6 59.24	+28 4.7	1.842	2.603	16.6	21.5

238336 2004 BA_{57} 1 12.0 267°.65 2°.0/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 51.81	+13 38.5	2.381	3.218	10.7	20.4
12 23	7 46.25	+13 59.9	2.293	3.205	7.8	20.2
1 2	7 39.02	+14 30.5	2.232	3.192	4.6	20.0
1 12	7 30.79	+15 8.5	2.200	3.178	2.1	19.8
1 22	7 22.37	+15 51.4	2.198	3.165	3.9	19.9
2 1	7 14.65	+16 36.2	2.226	3.152	7.3	20.1
2 11	7 8.42	+17 20.2	2.281	3.138	10.5	20.2
2 21	7 4.22	+18 1.4	2.359	3.124	13.3	20.4

427078 2014 UE_{25} 1 12.0 73°.85 4°.0/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.74	+29 57.3	1.804	2.663	12.6	20.2
12 23	7 50.75	+31 7.5	1.757	2.680	9.0	20.0
1 2	7 41.41	+32 13.7	1.736	2.697	5.5	19.8
1 12	7 30.81	+33 9.0	1.743	2.714	4.1	19.7
1 22	7 20.27	+33 48.7	1.780	2.732	6.5	19.9
2 1	7 11.11	+34 11.0	1.843	2.749	9.9	20.2
2 11	7 4.39	+34 17.6	1.932	2.766	13.1	20.4
2 21	7 0.63	+34 11.7	2.040	2.783	15.7	20.6

342864 2008 YF_{32} 1 12.0 70°.27 2°.5/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.83	+27 30.2	2.104	2.961	11.1	20.2
12 23	7 48.47	+28 14.7	2.047	2.971	7.8	20.0
1 2	7 40.17	+28 57.7	2.016	2.981	4.4	19.8
1 12	7 30.81	+29 34.6	2.014	2.991	2.5	19.7
1 22	7 21.47	+30 1.9	2.042	3.001	5.0	19.9
2 1	7 13.21	+30 18.1	2.098	3.012	8.4	20.1
2 11	7 6.93	+30 23.6	2.180	3.022	11.5	20.3
2 21	7 3.14	+30 20.1	2.283	3.032	14.1	20.5

55029 2001 QN_{45} 1 12.0 323°.27 1°.0/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.75	+23 45.2	2.143	2.999	11.0	19.1
12 23	7 47.72	+24 9.6	2.072	2.997	7.7	18.9
1 2	7 39.80	+24 35.5	2.027	2.995	4.0	18.7
1 12	7 30.81	+24 59.5	2.010	2.993	1.0	18.5
1 22	7 21.75	+25 18.7	2.024	2.991	4.3	18.7
2 1	7 13.66	+25 31.5	2.067	2.989	8.0	18.9
2 11	7 7.40	+25 37.4	2.135	2.987	11.3	19.1
2 21	7 3.51	+25 37.3	2.226	2.986	14.1	19.3

27238 Keenanmonks 1 12.0 308°.97 2°.2/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 55.20	+25 46.5	1.864	2.725	12.2	18.4
12 23	7 49.03	+26 31.9	1.794	2.721	8.6	18.1
1 2	7 40.59	+27 18.2	1.749	2.716	4.6	17.9
1 12	7 30.82	+28 0.3	1.732	2.712	2.2	17.7
1 22	7 20.89	+28 33.6	1.744	2.708	5.3	17.9
2 1	7 12.08	+28 55.9	1.785	2.704	9.3	18.1
2 11	7 5.44	+29 6.9	1.850	2.700	12.9	18.3
2 21	7 1.59	+29 8.3	1.936	2.696	15.9	18.6

151530 2002 RO_{93} 1 12.0 99°.28 1°.1/11.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.58	+24 17.5	1.432	2.291	15.3	20.3
12 23	7 54.91	+24 23.6	1.386	2.312	10.6	20.1
1 2	7 43.53	+24 29.3	1.364	2.332	5.5	19.9
1 12	7 30.84	+24 30.5	1.369	2.352	1.1	19.6
1 22	7 18.50	+24 24.6	1.403	2.371	5.6	20.0
2 1	7 8.07	+24 11.5	1.464	2.390	10.4	20.3
2 11	7 0.64	+23 52.9	1.549	2.408	14.5	20.6
2 21	6 56.68	+23 31.1	1.655	2.425	17.8	20.8

190728 2001 OL_{98} 1 12.0 176°.67 1°.3/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.70	+24 6.2	1.984	2.832	12.1	22.3
12 23	7 52.66	+24 34.2	1.914	2.836	8.5	22.1
1 2	7 42.38	+25 3.0	1.871	2.838	4.4	21.8
1 12	7 30.83	+25 28.3	1.858	2.840	1.3	21.6
1 22	7 19.24	+25 46.7	1.875	2.840	4.7	21.8
2 1	7 8.83	+25 56.7	1.922	2.840	8.8	22.1
2 11	7 0.63	+25 58.6	1.995	2.839	12.3	22.3
2 21	6 55.23	+25 54.1	2.090	2.836	15.3	22.5

71559 2000 DU_{22} 1 12.0 99°.57 0°.6/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.49	+22 44.4	2.307	3.156	10.6	19.7
12 23	7 48.65	+23 3.8	2.254	3.176	7.3	19.5
1 2	7 40.15	+23 24.6	2.228	3.196	3.7	19.3
1 12	7 30.82	+23 43.7	2.232	3.215	0.6	19.1
1 22	7 21.61	+23 58.9	2.266	3.233	3.8	19.4
2 1	7 13.43	+24 9.1	2.330	3.252	7.3	19.6
2 11	7 7.02	+24 13.9	2.421	3.270	10.3	19.9
2 21	7 2.83	+24 14.0	2.535	3.288	12.8	20.1

95899 2003 HZ_{20} 1 12.0 210°.40 2°.4/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.24	+25 54.0	1.744	2.601	13.0	20.0
12 23	7 52.01	+26 39.8	1.672	2.597	9.2	19.8
1 2	7 42.19	+27 26.5	1.625	2.592	5.0	19.5
1 12	7 30.83	+28 7.9	1.607	2.587	2.4	19.4
1 22	7 19.28	+28 39.2	1.618	2.581	5.7	19.6
2 1	7 8.98	+28 57.9	1.657	2.574	10.0	19.8
2 11	7 1.14	+29 4.6	1.721	2.568	13.8	20.0
2 21	6 56.43	+29 1.4	1.805	2.560	17.1	20.2

454297 2014 JJ_{28} 1 12.0 213°.00 1°.7/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.96	+15 59.4	1.734	2.580	13.6	21.8
12 23	7 51.00	+16 16.2	1.656	2.574	9.8	21.6
1 2	7 41.64	+16 42.5	1.604	2.568	5.4	21.3
1 12	7 30.83	+17 15.5	1.580	2.561	1.7	21.1
1 22	7 19.81	+17 51.7	1.585	2.554	4.9	21.3
2 1	7 9.92	+18 27.6	1.618	2.546	9.4	21.5
2 11	7 2.26	+19 0.7	1.677	2.537	13.5	21.7
2 21	6 57.53	+19 29.7	1.757	2.527	16.9	21.9

143261 2003 AB_{7} 1 12.0 55°.51 4°.9/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.69	+32 35.4	1.479	2.342	14.6	18.7
12 23	7 53.03	+33 13.6	1.439	2.362	10.6	18.5
1 2	7 42.60	+33 43.0	1.422	2.382	6.6	18.4
1 12	7 30.84	+33 57.2	1.432	2.403	4.9	18.3
1 22	7 19.42	+33 52.9	1.470	2.423	7.4	18.5
2 1	7 9.92	+33 31.2	1.533	2.444	11.1	18.8
2 11	7 3.43	+32 56.2	1.620	2.465	14.6	19.0
2 21	7 0.39	+32 12.7	1.726	2.486	17.6	19.3

220604 2004 PA_{1} 1 12.0 121°.30 0°.7/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.74	+23 15.0	2.158	3.008	11.2	20.8
12 23	7 49.64	+23 29.2	2.099	3.021	7.8	20.6
1 2	7 40.71	+23 44.3	2.066	3.034	4.0	20.4
1 12	7 30.84	+23 57.3	2.063	3.046	0.7	20.1
1 22	7 21.04	+24 6.1	2.090	3.058	4.1	20.4
2 1	7 12.34	+24 9.5	2.147	3.069	7.8	20.6
2 11	7 5.57	+24 7.6	2.231	3.080	11.0	20.9
2 21	7 1.20	+24 1.4	2.337	3.091	13.7	21.1

192963 2000 CO_{110} 1 12.0 234°.03 2°.5/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.03	+27 47.5	1.646	2.502	13.7	20.5
12 23	7 54.09	+28 1.3	1.568	2.492	9.8	20.2
1 2	7 43.32	+28 11.9	1.516	2.482	5.4	19.9
1 12	7 30.85	+28 14.1	1.491	2.471	2.6	19.7
1 22	7 18.22	+28 4.6	1.496	2.459	5.9	19.9
2 1	7 7.03	+27 43.3	1.528	2.447	10.5	20.1
2 11	6 58.57	+27 12.5	1.585	2.435	14.7	20.4
2 21	6 53.53	+26 35.8	1.662	2.422	18.1	20.6

381292 2007 TL_{448} 1 12.0 172°.56 1°.5/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 53.02	+16 5.4	2.762	3.597	9.5	21.1
12 23	7 46.80	+16 1.8	2.688	3.600	6.8	20.9
1 2	7 39.19	+16 3.2	2.641	3.602	3.8	20.7
1 12	7 30.84	+16 8.6	2.624	3.604	1.5	20.6
1 22	7 22.46	+16 16.5	2.639	3.605	3.4	20.7
2 1	7 14.81	+16 25.8	2.684	3.606	6.4	20.9
2 11	7 8.53	+16 35.5	2.757	3.607	9.1	21.1
2 21	7 4.04	+16 44.6	2.854	3.607	11.5	21.3

87897 2000 SH_{300} 1 12.0 120°.96 0°.2/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.43	+21 41.2	2.060	2.911	11.6	20.3
12 23	7 49.50	+21 52.2	1.999	2.921	8.1	20.1
1 2	7 40.67	+22 5.5	1.964	2.932	4.2	19.9
1 12	7 30.84	+22 18.4	1.958	2.941	0.2	19.6
1 22	7 21.07	+22 28.5	1.982	2.951	4.1	19.9
2 1	7 12.42	+22 34.6	2.036	2.960	8.0	20.2
2 11	7 5.73	+22 36.3	2.116	2.969	11.3	20.4
2 21	7 1.50	+22 34.2	2.218	2.978	14.1	20.6

189984 2004 EX_{67} 1 12.0 209°.41 0°.5/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.54	+20 16.6	1.703	2.554	13.6	20.9
12 23	7 52.83	+20 16.2	1.626	2.548	9.7	20.6
1 2	7 42.59	+20 19.8	1.575	2.542	5.1	20.3
1 12	7 30.86	+20 24.4	1.552	2.536	0.5	20.0
1 22	7 18.98	+20 27.7	1.559	2.528	4.9	20.3
2 1	7 8.39	+20 28.2	1.594	2.520	9.6	20.6
2 11	7 0.23	+20 25.7	1.655	2.511	13.8	20.8
2 21	6 55.16	+20 20.7	1.736	2.502	17.3	21.0

287924 2003 UZ_{19} 1 12.1 143°.28 20°.1/ 3.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 34.83	+63 33.3	1.320	2.079	21.8	20.7
12 23	8 22.70	+66 31.7	1.302	2.089	20.6	20.7
1 2	8 0.48	+68 47.1	1.301	2.098	20.1	20.7
1 12	7 30.94	+69 57.5	1.319	2.106	20.4	20.7
1 22	7 0.98	+69 54.8	1.353	2.114	21.3	20.8
2 1	6 37.91	+68 48.8	1.403	2.121	22.6	20.9
2 11	6 25.14	+67 0.7	1.466	2.127	24.0	21.1
2 21	6 22.03	+64 49.6	1.540	2.132	25.2	21.2

148807 2001 UM_{108} 1 12.1 150°.81 1°.1/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.41	+23 28.1	1.965	2.820	11.9	20.5
12 23	7 49.69	+23 59.8	1.899	2.824	8.3	20.3
1 2	7 40.87	+24 33.3	1.859	2.828	4.3	20.1
1 12	7 30.88	+25 4.6	1.849	2.831	1.1	19.9
1 22	7 20.85	+25 30.2	1.867	2.834	4.6	20.1
2 1	7 11.93	+25 48.1	1.915	2.837	8.5	20.4
2 11	7 5.09	+25 58.1	1.988	2.840	12.1	20.6
2 21	7 0.87	+26 1.0	2.083	2.842	15.0	20.8

50258 2000 BV_{26} 1 12.1 223°.42 3°.5/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.58	+31 57.7	2.035	2.882	11.9	19.0
12 23	7 53.37	+32 8.1	1.958	2.875	8.6	18.7
1 2	7 42.80	+32 11.5	1.906	2.866	5.2	18.5
1 12	7 30.90	+32 3.4	1.884	2.857	3.5	18.4
1 22	7 18.96	+31 41.6	1.892	2.848	5.8	18.5
2 1	7 8.31	+31 6.6	1.929	2.838	9.3	18.7
2 11	7 0.02	+30 21.6	1.992	2.828	12.7	18.9
2 21	6 54.66	+29 30.5	2.077	2.817	15.6	19.1

432501 2010 EE_{141} 1 12.1 259°.29 1°.8/11.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.45	+26 40.7	2.340	3.193	10.3	21.3
12 23	7 48.16	+27 2.5	2.262	3.185	7.3	21.1
1 2	7 40.05	+27 23.3	2.212	3.178	3.9	20.9
1 12	7 30.89	+27 39.8	2.190	3.170	1.8	20.7
1 22	7 21.63	+27 49.3	2.199	3.163	4.4	20.9
2 1	7 13.27	+27 50.8	2.238	3.155	7.8	21.1
2 11	7 6.66	+27 44.6	2.302	3.147	10.9	21.3
2 21	7 2.34	+27 32.1	2.389	3.139	13.5	21.5

220581 2004 JV_{10} 1 12.1 233°.21 3°.6/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.41	+10 16.1	2.146	2.973	12.1	21.4
12 23	7 48.19	+10 15.7	2.060	2.963	9.1	21.1
1 2	7 40.11	+10 27.1	2.000	2.952	5.9	20.9
1 12	7 30.90	+10 49.5	1.969	2.940	3.7	20.8
1 22	7 21.50	+11 21.0	1.967	2.928	5.0	20.8
2 1	7 12.90	+11 58.9	1.994	2.915	8.3	21.0
2 11	7 5.99	+12 40.0	2.048	2.903	11.6	21.2
2 21	7 1.36	+13 21.6	2.124	2.889	14.5	21.4

330425 2007 CH_{47} 1 12.1 273°.48 2°.1/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.84	+27 25.7	1.950	2.805	12.0	20.3
12 23	7 50.89	+27 36.8	1.866	2.789	8.5	20.1
1 2	7 41.60	+27 45.6	1.807	2.773	4.7	19.8
1 12	7 30.92	+27 48.1	1.777	2.757	2.1	19.6
1 22	7 20.05	+27 41.5	1.776	2.740	5.1	19.8
2 1	7 10.28	+27 25.3	1.804	2.723	9.2	20.0
2 11	7 2.69	+27 1.0	1.857	2.706	12.9	20.2
2 21	6 57.94	+26 30.8	1.932	2.689	16.0	20.3

263676 2008 GT_{121} 1 12.1 253°.26 1°.5/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 56.08	+23 48.7	1.843	2.702	12.4	21.0
12 23	7 49.68	+24 28.1	1.770	2.697	8.7	20.8
1 2	7 40.99	+25 10.1	1.723	2.691	4.6	20.5
1 12	7 30.93	+25 49.8	1.704	2.686	1.5	20.3
1 22	7 20.70	+26 23.1	1.714	2.680	5.0	20.5
2 1	7 11.58	+26 47.2	1.752	2.675	9.2	20.8
2 11	7 4.63	+27 1.7	1.816	2.669	12.9	21.0
2 21	7 0.51	+27 7.7	1.900	2.663	16.1	21.2

312269 2008 AY_{64} 1 12.1 184°.59 1°.2/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.24	+25 55.0	2.040	2.888	11.8	20.5
12 23	7 52.28	+25 47.8	1.967	2.889	8.3	20.2
1 2	7 42.18	+25 38.2	1.922	2.888	4.4	20.0
1 12	7 30.95	+25 23.5	1.906	2.888	1.2	19.8
1 22	7 19.76	+25 2.3	1.920	2.887	4.5	20.0
2 1	7 9.79	+24 35.0	1.965	2.885	8.5	20.3
2 11	7 1.99	+24 3.1	2.036	2.883	12.0	20.5
2 21	6 56.90	+23 28.8	2.129	2.881	14.9	20.7

181776 1997 TM_{6} 1 12.1 18°.22 0°.1/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.47	+20 24.3	1.673	2.533	13.4	20.5
12 23	7 49.31	+20 54.9	1.608	2.534	9.4	20.3
1 2	7 40.80	+21 31.3	1.566	2.535	4.8	20.0
1 12	7 30.94	+22 9.3	1.553	2.536	0.1	19.6
1 22	7 21.00	+22 44.7	1.568	2.538	4.8	20.0
2 1	7 12.28	+23 14.4	1.611	2.539	9.3	20.3
2 11	7 5.86	+23 36.9	1.678	2.541	13.3	20.5
2 21	7 2.34	+23 52.4	1.766	2.542	16.6	20.7

448166 2008 TY_{52} 1 12.1 124°.62 0°.7/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.78	+18 45.6	1.530	2.386	14.6	21.6
12 23	7 51.68	+19 5.7	1.470	2.394	10.3	21.4
1 2	7 42.02	+19 33.1	1.434	2.402	5.4	21.1
1 12	7 30.96	+20 3.9	1.426	2.409	0.7	20.8
1 22	7 19.90	+20 33.8	1.446	2.416	5.1	21.1
2 1	7 10.28	+21 0.1	1.494	2.423	9.9	21.4
2 11	7 3.25	+21 21.0	1.566	2.429	14.1	21.7
2 21	6 59.39	+21 36.5	1.658	2.435	17.5	21.9

318093 2004 GJ_{76} 1 12.1 242°.78 1°.2/11.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.32	+24 15.8	2.059	2.911	11.6	22.1
12 23	7 50.42	+24 37.6	1.975	2.898	8.1	21.9
1 2	7 41.35	+25 0.3	1.917	2.884	4.3	21.6
1 12	7 30.96	+25 20.4	1.888	2.870	1.2	21.3
1 22	7 20.35	+25 34.8	1.889	2.855	4.6	21.6
2 1	7 10.72	+25 41.6	1.919	2.840	8.6	21.8
2 11	7 3.10	+25 41.1	1.976	2.825	12.2	22.0
2 21	6 58.10	+25 34.5	2.054	2.808	15.3	22.1

5595 Roth 1 12.1 60°.87 1°.9/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.82	+14 16.3	1.670	2.520	13.9	16.4
12 23	7 48.67	+14 55.4	1.618	2.537	9.9	16.2
1 2	7 40.38	+15 46.3	1.590	2.553	5.6	16.0
1 12	7 30.95	+16 45.1	1.589	2.570	1.9	15.8
1 22	7 21.58	+17 46.7	1.617	2.587	4.7	16.0
2 1	7 13.45	+18 46.4	1.674	2.604	8.9	16.3
2 11	7 7.52	+19 40.7	1.756	2.621	12.7	16.6
2 21	7 4.31	+20 27.7	1.859	2.639	15.8	16.8

85187 1991 PC_{12} 1 12.1 189°.25 4°.1/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.53	+ 5 47.5	2.864	3.662	10.2	21.0
12 23	7 47.17	+ 5 43.2	2.781	3.661	7.9	20.8
1 2	7 39.45	+ 5 50.2	2.726	3.659	5.6	20.6
1 12	7 30.96	+ 6 8.3	2.700	3.656	4.2	20.5
1 22	7 22.38	+ 6 36.3	2.704	3.652	4.8	20.6
2 1	7 14.44	+ 7 12.2	2.740	3.648	6.9	20.7
2 11	7 7.76	+ 7 53.2	2.803	3.643	9.3	20.9
2 21	7 2.78	+ 8 36.7	2.891	3.636	11.5	21.0

448317 2009 CU_{54} 1 12.1 21°.28 3°.3/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.59	+28 1.0	1.077	1.960	17.2	20.0
12 23	7 51.55	+28 18.8	1.032	1.969	12.2	19.8
1 2	7 42.13	+28 32.7	1.009	1.978	6.7	19.5
1 12	7 30.97	+28 36.4	1.009	1.989	3.4	19.3
1 22	7 20.06	+28 26.1	1.034	2.001	7.2	19.6
2 1	7 11.34	+28 2.3	1.082	2.014	12.4	19.9
2 11	7 6.11	+27 28.4	1.151	2.028	17.0	20.2
2 21	7 4.84	+26 48.4	1.239	2.043	20.8	20.5

151195 2001 XQ_{231} 1 12.1 40°.34 0°.8/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.70	+23 19.2	1.530	2.395	14.1	19.8
12 23	7 50.17	+23 29.5	1.477	2.406	9.8	19.6
1 2	7 41.20	+23 41.4	1.449	2.418	5.1	19.3
1 12	7 30.97	+23 51.1	1.447	2.430	0.8	19.1
1 22	7 20.87	+23 55.9	1.473	2.442	5.1	19.4
2 1	7 12.28	+23 54.5	1.526	2.455	9.7	19.7
2 11	7 6.25	+23 47.3	1.603	2.469	13.7	20.0
2 21	7 3.29	+23 35.6	1.701	2.482	17.0	20.2

43287 2000 FJ_3 1 12.1 211°.67 0°.4/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 56.18	+19 49.1	2.054	2.903	11.7	18.6
12 23	7 49.61	+20 46.8	1.976	2.898	8.2	18.4
1 2	7 40.94	+21 51.3	1.924	2.892	4.2	18.1
1 12	7 30.97	+22 57.9	1.903	2.886	0.4	17.8
1 22	7 20.78	+24 1.4	1.912	2.880	4.4	18.1
2 1	7 11.48	+24 57.9	1.951	2.873	8.4	18.3
2 11	7 4.09	+25 45.1	2.017	2.866	12.0	18.5
2 21	6 59.24	+26 22.8	2.104	2.858	15.0	18.7

425893 2011 FQ_{57} 1 12.1 89°.88 5°.4/10.3 18

12 13	7 59.90	+37 43.4	2.173	3.015	11.5	21.0
12 23	7 52.04	+38 20.8	2.125	3.031	8.7	20.8
1 2	7 42.04	+38 47.5	2.103	3.047	6.2	20.7
1 12	7 30.99	+38 58.5	2.109	3.062	5.4	20.7
1 22	7 20.12	+38 51.6	2.144	3.078	6.9	20.8
2 1	7 10.66	+38 27.6	2.207	3.094	9.4	21.0
2 11	7 3.52	+37 49.8	2.295	3.109	12.0	21.2
2 21	6 59.17	+37 2.6	2.405	3.124	14.2	21.4

368033 2012 GJ_{33} 1 12.1 66°.36 3°.7/10.7 18

12 13	7 57.33	+30 5.3	1.819	2.678	12.5	21.1
12 23	7 50.59	+30 53.3	1.758	2.682	9.0	20.9
1 2	7 41.46	+31 37.5	1.723	2.685	5.4	20.7
1 12	7 30.98	+32 12.1	1.716	2.689	3.8	20.6
1 22	7 20.48	+32 32.8	1.738	2.693	6.2	20.7
2 1	7 11.29	+32 38.3	1.787	2.697	9.8	21.0
2 11	7 4.48	+32 30.4	1.860	2.701	13.2	21.2
2 21	7 0.64	+32 12.0	1.954	2.705	16.1	21.4

249565 2298 $T\text{-}_3$ 1 12.1 68°.08 3°.1/13.1 18

12 13	7 58.73	+13 18.7	1.574	2.418	14.9	20.6
12 23	7 51.21	+13 18.5	1.537	2.451	10.7	20.5
1 2	7 41.58	+13 30.0	1.524	2.484	6.3	20.3
1 12	7 30.99	+13 50.9	1.539	2.517	3.1	20.2
1 22	7 20.74	+14 18.0	1.582	2.549	5.3	20.4
2 1	7 12.04	+14 48.0	1.654	2.581	9.2	20.7
2 11	7 5.76	+15 18.3	1.750	2.613	12.9	21.0
2 21	7 2.32	+15 46.6	1.867	2.644	15.8	21.2

320705 2008 DZ_{37} 1 12.1 7°.27 3°.1/11.5 18

12 13	7 53.62	+27 24.1	1.034	1.923	17.2	19.6
12 23	7 48.93	+27 40.9	0.985	1.924	12.2	19.3
1 2	7 40.87	+27 55.2	0.957	1.927	6.7	19.0
1 12	7 30.98	+28 0.6	0.952	1.933	3.2	18.8
1 22	7 21.21	+27 53.3	0.971	1.940	7.2	19.1
2 1	7 13.48	+27 32.9	1.012	1.948	12.6	19.4
2 11	7 9.18	+27 2.2	1.075	1.959	17.3	19.7
2 21	7 8.80	+26 24.5	1.154	1.972	21.2	20.0

366943 2005 VO_{85} 1 12.1 166°.15 2°.2/13.1 18

12 13	7 54.83	+13 27.0	2.562	3.390	10.4	22.6
12 23	7 48.16	+13 31.8	2.489	3.396	7.5	22.4
1 2	7 39.99	+13 44.3	2.444	3.401	4.5	22.2
1 12	7 30.98	+14 3.0	2.429	3.406	2.2	22.0
1 22	7 21.95	+14 26.0	2.445	3.410	3.8	22.2
2 1	7 13.70	+14 51.4	2.491	3.413	6.9	22.4
2 11	7 6.94	+15 17.5	2.566	3.415	9.7	22.5
2 21	7 2.13	+15 42.6	2.664	3.417	12.2	22.7

337144 1999 TQ_{231} 1 12.1 109°.90 0°.8/12.4 18

12 13	8 1.87	+17 30.0	1.605	2.452	14.5	21.5
12 23	7 53.56	+18 6.5	1.559	2.478	10.2	21.3
1 2	7 42.88	+18 51.0	1.537	2.503	5.4	21.1
1 12	7 31.00	+19 38.4	1.544	2.527	0.8	20.8
1 22	7 19.33	+20 24.1	1.581	2.550	4.9	21.1
2 1	7 9.22	+21 4.5	1.646	2.572	9.4	21.5
2 11	7 1.69	+21 38.0	1.737	2.593	13.3	21.7
2 21	6 57.23	+22 4.4	1.849	2.614	16.4	22.0

60654 2000 FP_{45} 1 12.1 207°.68 2°.3/13.1 18

12 13	7 55.05	+13 26.5	2.194	3.028	11.6	19.5
12 23	7 48.62	+13 43.8	2.113	3.023	8.5	19.3
1 2	7 40.35	+14 10.9	2.058	3.018	5.0	19.1
1 12	7 30.99	+14 45.7	2.033	3.011	2.3	18.9
1 22	7 21.48	+15 25.5	2.038	3.005	4.3	19.0
2 1	7 12.80	+16 7.3	2.073	2.997	7.8	19.2
2 11	7 5.81	+16 48.4	2.134	2.989	11.2	19.4
2 21	7 1.09	+17 26.8	2.219	2.981	14.1	19.6

56689 2000 LD_{14} 1 12.1 196°.10 4°.8/13.6 18

12 13	7 55.17	+ 8 8.7	2.111	2.930	12.6	18.8
12 23	7 48.66	+ 7 37.5	2.035	2.929	9.7	18.6
1 2	7 40.34	+ 7 18.5	1.985	2.927	6.7	18.4
1 12	7 31.00	+ 7 12.1	1.962	2.924	4.9	18.3
1 22	7 21.57	+ 7 17.9	1.969	2.922	5.9	18.4
2 1	7 13.04	+ 7 34.0	2.005	2.918	8.7	18.5
2 11	7 6.25	+ 7 57.8	2.066	2.915	11.8	18.7
2 21	7 1.74	+ 8 26.1	2.150	2.911	14.5	18.9

414248 2008 GT_{31} 1 12.1 332°.19 7°.1/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 52.27	+ 3 47.8	1.541	2.367	16.1	20.4
12 23	7 47.21	+ 3 34.6	1.466	2.358	12.8	20.1
1 2	7 39.81	+ 3 43.9	1.413	2.349	9.5	19.9
1 12	7 30.99	+ 4 16.7	1.385	2.342	7.3	19.8
1 22	7 21.95	+ 5 10.9	1.383	2.334	8.0	19.8
2 1	7 13.98	+ 6 21.6	1.407	2.328	11.1	20.0
2 11	7 8.19	+ 7 41.9	1.454	2.322	14.7	20.2
2 21	7 5.27	+ 9 4.9	1.522	2.316	18.0	20.4

381304 2007 VZ_3 1 12.1 57°.84 1°.0/12.4 18

12 13	7 54.91	+19 3.9	2.029	2.879	11.8	20.9
12 23	7 48.41	+18 53.2	1.974	2.895	8.3	20.8
1 2	7 40.14	+18 46.7	1.945	2.911	4.4	20.6
1 12	7 31.00	+18 42.8	1.945	2.928	1.0	20.3
1 22	7 21.98	+18 40.1	1.975	2.945	4.0	20.6
2 1	7 14.09	+18 37.5	2.034	2.961	7.8	20.9
2 11	7 8.11	+18 34.6	2.119	2.978	11.1	21.1
2 21	7 4.48	+18 30.9	2.226	2.995	13.8	21.3

78176 2002 NE_{33} 1 12.1 90°.00 0°.0/12.1 18

12 13	7 56.03	+21 52.9	2.300	3.148	10.7	19.2
12 23	7 49.02	+21 52.8	2.248	3.169	7.4	19.0
1 2	7 40.40	+21 54.3	2.222	3.190	3.8	18.8
1 12	7 31.00	+21 55.2	2.227	3.210	0.0	18.5
1 22	7 21.76	+21 54.1	2.262	3.231	3.7	18.9
2 1	7 13.58	+21 50.2	2.327	3.251	7.2	19.1
2 11	7 7.18	+21 43.5	2.419	3.270	10.2	19.3
2 21	7 2.98	+21 34.5	2.534	3.290	12.7	19.6

460433 2014 SO_{160} 1 12.1 177°.19 7°.7/ 9.1 18

12 13	8 3.45	+42 24.6	2.033	2.864	12.6	21.5
12 23	7 55.04	+43 32.2	1.975	2.866	10.1	21.3
1 2	7 43.84	+44 25.9	1.942	2.867	8.1	21.2
1 12	7 31.03	+44 57.8	1.937	2.867	7.8	21.2
1 22	7 18.19	+45 3.9	1.959	2.868	9.2	21.3
2 1	7 6.89	+44 44.7	2.008	2.868	11.5	21.4
2 11	6 58.38	+44 4.9	2.080	2.867	14.0	21.6
2 21	6 53.28	+43 10.8	2.171	2.866	16.2	21.7

286633 2002 ER_{35} 1 12.1 255°.79 0°.2/12.1 18

12 13	7 58.10	+20 33.9	1.736	2.591	13.2	21.4
12 23	7 51.28	+20 46.8	1.652	2.575	9.4	21.2
1 2	7 41.94	+21 4.5	1.592	2.560	4.9	20.9
1 12	7 31.03	+21 23.6	1.560	2.543	0.2	20.4
1 22	7 19.82	+21 40.8	1.557	2.527	4.9	20.8
2 1	7 9.69	+21 54.0	1.583	2.510	9.6	21.0
2 11	7 1.86	+22 2.2	1.633	2.492	13.8	21.2
2 21	6 57.05	+22 5.7	1.704	2.474	17.4	21.4

413512 2005 RT_{44} 1 12.1 8°.58 7°.1/12.7 18

12 13	7 56.20	+10 25.8	1.309	2.160	16.9	19.2
12 23	7 50.01	+ 8 42.4	1.251	2.162	13.0	18.9
1 2	7 41.22	+ 7 11.5	1.216	2.165	9.2	18.7
1 12	7 31.02	+ 5 58.3	1.207	2.169	7.1	18.6
1 22	7 20.90	+ 5 5.9	1.223	2.175	8.7	18.7
2 1	7 12.33	+ 4 34.9	1.263	2.182	12.3	18.9
2 11	7 6.43	+ 4 22.4	1.326	2.190	16.1	19.2
2 21	7 3.75	+ 4 23.7	1.408	2.199	19.4	19.4

83408 2001 SU_{36} 1 12.1 255°.77 5°.7/ 9.8 18

12 13	8 0.67	+36 26.0	2.046	2.890	11.9	19.1
12 23	7 53.11	+37 21.0	1.964	2.873	9.1	18.9
1 2	7 42.90	+38 8.1	1.908	2.854	6.5	18.7
1 12	7 31.04	+38 40.1	1.880	2.836	5.8	18.6
1 22	7 18.87	+38 52.5	1.881	2.816	7.6	18.7
2 1	7 7.87	+38 44.2	1.910	2.797	10.6	18.8
2 11	6 59.28	+38 18.0	1.963	2.777	13.7	19.0
2 21	6 53.84	+37 38.5	2.036	2.756	16.4	19.1

387443 2013 WP_{60} 1 12.1 51°.46 2°.3/11.3 18

12 13	7 55.42	+27 20.7	1.977	2.835	11.7	20.9
12 23	7 48.95	+27 47.2	1.924	2.849	8.2	20.7
1 2	7 40.49	+28 11.6	1.898	2.864	4.5	20.5
1 12	7 31.03	+28 29.9	1.899	2.878	2.3	20.3
1 22	7 21.67	+28 39.5	1.931	2.893	4.9	20.6
2 1	7 13.52	+28 39.4	1.990	2.908	8.5	20.8
2 11	7 7.47	+28 30.6	2.075	2.924	11.7	21.0
2 21	7 3.99	+28 15.1	2.181	2.939	14.4	21.2

365939 2012 AW_2 1 12.1 345°.38 9°.8/14.8 18

12 13	7 53.74	− 0 45.5	1.575	2.377	16.9	20.1
12 23	7 48.13	− 1 47.1	1.507	2.374	14.1	19.9
1 2	7 40.24	− 2 25.2	1.461	2.371	11.4	19.7
1 12	7 31.03	− 2 35.8	1.438	2.369	9.9	19.6
1 22	7 21.67	− 2 18.5	1.441	2.367	10.3	19.6
2 1	7 13.43	− 1 36.2	1.468	2.365	12.5	19.7
2 11	7 7.38	− 0 35.4	1.518	2.364	15.4	19.9
2 21	7 4.13	+ 0 36.4	1.587	2.363	18.2	20.1

397137 2005 WD_{107} 1 12.1 79°.79 3°.5/10.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 0.61	+26 49.4	1.345	2.213	15.5	20.6
12 23	7 53.33	+27 58.2	1.298	2.227	10.9	20.4
1 2	7 43.02	+29 6.3	1.275	2.242	6.1	20.2
1 12	7 31.06	+30 5.0	1.279	2.256	3.6	20.0
1 22	7 19.19	+30 47.6	1.310	2.271	7.0	20.3
2 1	7 9.16	+31 11.7	1.366	2.285	11.6	20.6
2 11	7 2.25	+31 19.1	1.446	2.299	15.6	20.9
2 21	6 59.03	+31 13.5	1.544	2.313	18.9	21.1

82245 2001 JM_{10} 1 12.1 112°.46 1°.5/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.35	+16 33.4	1.576	2.424	14.7	19.6
12 23	7 52.59	+16 53.3	1.524	2.444	10.4	19.4
1 2	7 42.44	+17 22.2	1.497	2.462	5.6	19.2
1 12	7 31.06	+17 56.3	1.499	2.481	1.5	19.0
1 22	7 19.81	+18 31.6	1.529	2.498	5.0	19.2
2 1	7 10.07	+19 4.9	1.587	2.515	9.5	19.5
2 11	7 2.87	+19 34.1	1.670	2.531	13.5	19.8
2 21	6 58.73	+19 58.3	1.774	2.546	16.7	20.1

190218 2006 BV_{223} 1 12.1 71°.14 0°.8/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.66	+18 15.8	1.899	2.752	12.4	20.3
12 23	7 48.45	+18 34.4	1.839	2.761	8.7	20.1
1 2	7 40.27	+18 59.4	1.805	2.771	4.6	19.9
1 12	7 31.04	+19 27.7	1.798	2.781	0.8	19.6
1 22	7 21.83	+19 56.3	1.822	2.791	4.2	19.9
2 1	7 13.72	+20 22.6	1.873	2.801	8.3	20.2
2 11	7 7.62	+20 45.1	1.950	2.811	11.8	20.4
2 21	7 4.02	+21 3.0	2.050	2.822	14.8	20.6

503846 2017 MG_5 1 12.1 162°.38 2°.5/13.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 51.81	+10 55.0	2.662	3.486	10.1	21.7
12 23	7 46.09	+11 20.2	2.587	3.490	7.5	21.5
1 2	7 38.96	+11 55.2	2.540	3.493	4.6	21.3
1 12	7 31.04	+12 38.4	2.522	3.496	2.6	21.2
1 22	7 23.04	+13 27.3	2.535	3.499	3.8	21.3
2 1	7 15.73	+14 18.9	2.579	3.501	6.6	21.5
2 11	7 9.75	+15 10.4	2.650	3.504	9.3	21.7
2 21	7 5.57	+15 59.7	2.746	3.505	11.7	21.8

162717 2000 UH_{102} 1 12.1 138°.76 3°.0/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.25	+13 19.8	2.012	2.843	12.7	20.8
12 23	7 51.45	+12 59.8	1.951	2.858	9.3	20.6
1 2	7 41.75	+12 48.4	1.915	2.872	5.6	20.5
1 12	7 31.07	+12 44.8	1.909	2.885	3.1	20.3
1 22	7 20.48	+12 47.9	1.934	2.897	4.9	20.5
2 1	7 11.04	+12 56.1	1.988	2.908	8.4	20.7
2 11	7 3.61	+13 7.5	2.069	2.919	11.7	20.9
2 21	6 58.67	+13 20.5	2.172	2.929	14.5	21.1

63470 2001 OH_{23} 1 12.1 14°.01 4°.0/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.97	+32 7.2	2.057	2.912	11.4	19.1
12 23	7 49.50	+32 48.6	1.993	2.913	8.3	18.9
1 2	7 40.88	+33 24.6	1.955	2.914	5.3	18.7
1 12	7 31.06	+33 50.3	1.946	2.915	4.0	18.6
1 22	7 21.21	+34 2.2	1.966	2.917	6.1	18.8
2 1	7 12.52	+33 59.6	2.013	2.918	9.2	19.0
2 11	7 5.96	+33 44.2	2.085	2.920	12.2	19.2
2 21	7 2.09	+33 19.0	2.179	2.922	14.9	19.3

500296 2012 QU_{13} 1 12.1 161°.84 5°.0/10.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.44	+39 7.6	2.660	3.491	9.9	21.9
12 23	7 51.54	+39 33.4	2.597	3.495	7.6	21.7
1 2	7 41.79	+39 49.2	2.561	3.499	5.6	21.6
1 12	7 31.07	+39 50.8	2.554	3.503	5.0	21.6
1 22	7 20.45	+39 36.4	2.578	3.506	6.2	21.7
2 1	7 10.96	+39 6.7	2.630	3.509	8.4	21.8
2 11	7 3.43	+38 24.5	2.708	3.511	10.7	22.0
2 21	6 58.34	+37 33.6	2.808	3.513	12.7	22.1

368127 2013 JO_{15} 1 12.1 177°.09 2°.5/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.82	+11 21.8	2.545	3.367	10.6	22.3
12 23	7 48.24	+11 45.3	2.468	3.370	7.8	22.2
1 2	7 40.09	+12 18.8	2.418	3.372	4.8	22.0
1 12	7 31.06	+13 0.3	2.398	3.373	2.6	21.8
1 22	7 21.94	+13 47.3	2.410	3.374	4.0	21.9
2 1	7 13.56	+14 36.8	2.453	3.374	7.0	22.1
2 11	7 6.64	+15 26.1	2.523	3.373	9.9	22.3
2 21	7 1.68	+16 12.9	2.618	3.371	12.4	22.5

288701 2004 QM_{25} 1 12.1 135°.69 0°.9/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.97	+20 34.2	2.212	3.054	11.3	20.3
12 23	7 51.16	+20 4.1	2.146	3.063	7.9	20.1
1 2	7 41.57	+19 35.4	2.106	3.072	4.2	19.9
1 12	7 31.08	+19 7.2	2.098	3.080	0.9	19.7
1 22	7 20.71	+18 39.2	2.120	3.088	4.0	19.9
2 1	7 11.44	+18 11.7	2.173	3.096	7.6	20.2
2 11	7 4.09	+17 45.3	2.253	3.103	10.9	20.4
2 21	6 59.12	+17 20.3	2.356	3.110	13.6	20.6

423849 2006 QP_{93} 1 12.1 171°.78 1°.4/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 55.98	+27 4.4	2.782	3.627	9.1	20.8
12 23	7 48.94	+27 4.5	2.710	3.629	6.4	20.7
1 2	7 40.40	+27 2.3	2.666	3.631	3.4	20.5
1 12	7 31.07	+26 55.6	2.653	3.633	1.4	20.3
1 22	7 21.78	+26 43.2	2.671	3.635	3.7	20.5
2 1	7 13.35	+26 25.0	2.720	3.636	6.6	20.7
2 11	7 6.47	+26 1.9	2.797	3.637	9.3	20.9
2 21	7 1.57	+25 35.2	2.898	3.637	11.6	21.0

234361 2001 NX_2 1 12.1 48°.16 1°.9/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.29	+23 56.2	2.066	2.923	11.3	19.7
12 23	7 48.29	+25 11.1	2.003	2.928	7.9	19.5
1 2	7 40.27	+26 29.2	1.966	2.933	4.2	19.3
1 12	7 31.08	+27 44.5	1.959	2.938	2.0	19.1
1 22	7 21.74	+28 51.6	1.982	2.944	4.9	19.3
2 1	7 13.36	+29 47.0	2.034	2.949	8.5	19.6
2 11	7 6.90	+30 29.3	2.112	2.955	11.8	19.8
2 21	7 2.93	+30 59.4	2.211	2.961	14.5	20.0

486452 2013 GP_{10} 1 12.1 169°.15 7°.4/ 9.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.33	+41 19.4	1.961	2.795	12.8	21.6
12 23	7 55.66	+42 19.9	1.903	2.798	10.2	21.4
1 2	7 44.18	+43 6.5	1.871	2.801	8.0	21.3
1 12	7 31.11	+43 31.6	1.866	2.803	7.5	21.2
1 22	7 18.07	+43 31.3	1.889	2.805	8.9	21.3
2 1	7 6.66	+43 6.3	1.938	2.807	11.5	21.5
2 11	6 58.11	+42 21.7	2.011	2.808	14.1	21.7
2 21	6 53.01	+41 23.9	2.104	2.808	16.4	21.8

240326 2003 ML 1 12.1 230°.29 1°.1/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.65	+16 56.9	1.867	2.712	12.9	21.8
12 23	7 50.84	+17 26.2	1.782	2.701	9.2	21.5
1 2	7 41.70	+18 4.5	1.723	2.689	5.0	21.2
1 12	7 31.11	+18 48.5	1.693	2.676	1.1	20.9
1 22	7 20.22	+19 33.9	1.693	2.662	4.6	21.2
2 1	7 10.30	+20 17.2	1.722	2.648	9.0	21.4
2 11	7 2.45	+20 55.9	1.777	2.633	13.0	21.6
2 21	6 57.38	+21 28.8	1.853	2.618	16.4	21.8

257522 1997 RH_9 1 12.1 116°.78 5°.4/10.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.78	+38 8.5	2.284	3.117	11.3	21.5
12 23	7 54.65	+38 48.7	2.239	3.140	8.5	21.3
1 2	7 43.40	+39 17.7	2.222	3.163	6.2	21.2
1 12	7 31.13	+39 30.3	2.234	3.185	5.4	21.2
1 22	7 19.12	+39 24.3	2.276	3.206	6.8	21.3
2 1	7 8.58	+39 0.8	2.346	3.226	9.2	21.5
2 11	7 0.43	+38 23.6	2.442	3.246	11.7	21.7
2 21	6 55.10	+37 37.1	2.560	3.265	13.8	21.9

490290 2008 YM_{126} 1 12.1 71°.32 0°.5/11.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.34	+21 18.6	1.398	2.262	15.3	21.3
12 23	7 52.14	+21 51.2	1.353	2.282	10.6	21.1
1 2	7 42.31	+22 28.5	1.332	2.301	5.4	20.9
1 12	7 31.13	+23 5.0	1.338	2.321	0.5	20.6
1 22	7 20.16	+23 36.1	1.372	2.341	5.4	21.0
2 1	7 10.90	+23 59.1	1.432	2.361	10.2	21.3
2 11	7 4.46	+24 13.6	1.516	2.381	14.4	21.6
2 21	7 1.32	+24 20.6	1.620	2.400	17.7	21.9

247202 2001 PR 1 12.1 80°.65 4°.0/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.22	+13 8.1	1.716	2.556	14.1	19.4
12 23	7 50.96	+12 19.3	1.657	2.568	10.4	19.2
1 2	7 41.59	+11 39.9	1.624	2.579	6.5	19.0
1 12	7 31.13	+11 10.7	1.618	2.591	4.0	18.9
1 22	7 20.79	+10 51.4	1.641	2.602	5.8	19.0
2 1	7 11.77	+10 41.5	1.692	2.613	9.5	19.3
2 11	7 4.99	+10 39.0	1.767	2.625	13.0	19.5
2 21	7 0.95	+10 41.8	1.864	2.636	16.0	19.7

377099 2002 WN_7 1 12.1 73°.37 0°.5/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.58	+19 25.9	2.165	3.012	11.3	20.8
12 23	7 48.78	+19 35.4	2.120	3.040	7.9	20.6
1 2	7 40.34	+19 48.7	2.101	3.067	4.1	20.4
1 12	7 31.13	+20 3.4	2.111	3.094	0.6	20.2
1 22	7 22.09	+20 17.6	2.152	3.121	3.8	20.5
2 1	7 14.16	+20 29.6	2.222	3.148	7.3	20.8
2 11	7 8.06	+20 38.7	2.319	3.174	10.4	21.0
2 21	7 4.19	+20 44.8	2.439	3.200	13.0	21.2

347414 2012 SS_{38} 1 12.1 35°.39 6°.2/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 50.93	+ 2 5.7	2.170	2.971	12.9	20.0
12 23	7 45.68	+ 1 49.9	2.103	2.976	10.4	19.8
1 2	7 38.83	+ 1 51.4	2.060	2.982	7.9	19.7
1 12	7 31.11	+ 2 10.7	2.043	2.988	6.3	19.6
1 22	7 23.36	+ 2 46.3	2.055	2.994	6.8	19.7
2 1	7 16.43	+ 3 35.3	2.094	3.001	8.8	19.8
2 11	7 11.08	+ 4 33.2	2.159	3.007	11.3	20.0
2 21	7 7.78	+ 5 35.2	2.246	3.014	13.7	20.1

270040 2001 LG_7 1 12.1 168°.49 2°.9/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 2.12	+15 48.8	2.132	2.961	12.1	19.9
12 23	7 53.42	+14 46.7	2.057	2.964	8.8	19.7
1 2	7 42.79	+13 48.2	2.011	2.968	5.3	19.5
1 12	7 31.16	+12 54.4	1.995	2.970	2.9	19.4
1 22	7 19.60	+12 6.5	2.011	2.973	4.9	19.5
2 1	7 9.18	+11 25.4	2.059	2.974	8.4	19.7
2 11	7 0.78	+10 51.4	2.134	2.975	11.7	19.9
2 21	6 54.90	+10 24.0	2.232	2.976	14.5	20.1

234142 2000 EA_{22} 1 12.1 250°.71 9°.4/16.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.24	− 4 55.9	1.759	2.529	16.7	20.7
12 23	7 49.96	− 4 51.3	1.667	2.512	14.1	20.5
1 2	7 41.32	− 4 17.0	1.597	2.496	11.5	20.3
1 12	7 31.14	− 3 10.8	1.552	2.478	9.6	20.2
1 22	7 20.56	− 1 34.4	1.533	2.460	9.8	20.1
2 1	7 10.82	+ 0 26.1	1.542	2.441	11.9	20.2
2 11	7 3.10	+ 2 41.4	1.577	2.422	15.0	20.3
2 21	6 58.15	+ 5 1.5	1.634	2.403	18.1	20.5

496088 2009 SF_{170} 1 12.1 47°.62 6°.7/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.68	+ 3 8.6	1.568	2.388	16.2	20.8
12 23	7 47.90	+ 3 13.2	1.521	2.409	12.7	20.7
1 2	7 40.04	+ 3 40.8	1.496	2.431	9.2	20.5
1 12	7 31.13	+ 4 30.3	1.497	2.454	6.8	20.4
1 22	7 22.34	+ 5 37.6	1.525	2.476	7.4	20.5
2 1	7 14.84	+ 6 56.5	1.579	2.499	10.2	20.7
2 11	7 9.52	+ 8 20.1	1.658	2.523	13.4	21.0
2 21	7 6.87	+ 9 42.4	1.758	2.546	16.2	21.2

182665 2001 UV_{204} 1 12.1 131°.57 6°.9/ 9.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.72	+39 42.0	1.971	2.811	12.5	20.5
12 23	7 53.77	+40 46.2	1.918	2.818	9.8	20.3
1 2	7 43.20	+41 38.1	1.890	2.825	7.5	20.2
1 12	7 31.16	+42 10.6	1.889	2.832	6.9	20.2
1 22	7 19.15	+42 19.7	1.916	2.838	8.5	20.3
2 1	7 8.65	+42 5.9	1.970	2.844	11.0	20.4
2 11	7 0.82	+41 33.1	2.048	2.850	13.7	20.6
2 21	6 56.24	+40 47.0	2.145	2.855	16.0	20.8

156843 2003 CN_7 1 12.1 346°.51 4°.0/14.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.58	+ 8 25.4	1.726	2.559	14.3	19.5
12 23	7 47.97	+ 8 59.5	1.653	2.558	10.8	19.3
1 2	7 40.20	+ 9 52.0	1.604	2.556	6.9	19.1
1 12	7 31.15	+11 0.5	1.583	2.555	4.1	18.9
1 22	7 21.92	+12 20.3	1.590	2.554	5.5	19.0
2 1	7 13.70	+13 45.3	1.625	2.553	9.3	19.2
2 11	7 7.51	+15 9.6	1.686	2.553	13.0	19.4
2 21	7 3.99	+16 28.8	1.768	2.552	16.3	19.7

13909 1978 VD_8 1 12.1 156°.24 1°.8/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.92	+24 16.3	1.500	2.362	14.5	19.3
12 23	7 52.75	+24 56.1	1.437	2.365	10.2	19.0
1 2	7 42.77	+25 38.0	1.399	2.368	5.4	18.7
1 12	7 31.18	+26 16.0	1.388	2.370	1.9	18.5
1 22	7 19.51	+26 45.0	1.406	2.372	5.8	18.8
2 1	7 9.36	+27 2.4	1.450	2.374	10.6	19.1
2 11	7 1.97	+27 8.8	1.518	2.376	14.8	19.3
2 21	6 58.00	+27 6.0	1.606	2.377	18.2	19.6

148777 2001 UK_{10} 1 12.1 346°.00 6°.0/10.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.00	+33 3.1	1.345	2.218	15.1	19.0
12 23	7 50.51	+33 59.7	1.281	2.208	11.2	18.8
1 2	7 41.81	+34 49.6	1.240	2.200	7.4	18.5
1 12	7 31.17	+35 24.0	1.224	2.192	6.1	18.4
1 22	7 20.34	+35 37.0	1.233	2.185	8.7	18.5
2 1	7 11.18	+35 27.1	1.266	2.180	12.8	18.8
2 11	7 5.17	+34 57.8	1.321	2.175	16.8	19.0
2 21	7 2.99	+34 14.7	1.394	2.172	20.2	19.2

77865 2001 RC_{146} 1 12.1 341°.73 6°.2/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.59	+10 23.7	1.707	2.542	14.4	17.3
12 23	7 50.05	+ 8 44.3	1.628	2.531	11.1	17.1
1 2	7 41.26	+ 7 12.9	1.575	2.520	7.9	16.9
1 12	7 31.17	+ 5 53.6	1.549	2.510	6.2	16.7
1 22	7 20.95	+ 4 49.9	1.552	2.501	7.6	16.8
2 1	7 11.86	+ 4 3.3	1.582	2.492	10.9	17.0
2 11	7 4.93	+ 3 33.0	1.636	2.485	14.3	17.2
2 21	7 0.76	+ 3 16.2	1.710	2.478	17.4	17.4

152676 1998 HT_{96} 1 12.1 256°.28 2°.9/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.98	+12 42.9	1.997	2.835	12.4	20.2
12 23	7 48.04	+12 42.6	1.919	2.829	9.2	20.0
1 2	7 40.16	+12 52.7	1.866	2.823	5.6	19.8
1 12	7 31.16	+13 12.1	1.841	2.817	3.0	19.6
1 22	7 22.01	+13 38.6	1.846	2.811	4.8	19.7
2 1	7 13.77	+14 9.6	1.879	2.805	8.4	19.9
2 11	7 7.35	+14 42.4	1.938	2.799	11.9	20.1
2 21	7 3.33	+15 14.6	2.019	2.792	14.9	20.3

206287 2003 AG_{74} 1 12.1 37°.14 5°.2/ 9.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 55.85	+33 20.3	1.887	2.745	12.2	19.5
12 23	7 49.61	+34 38.9	1.838	2.757	9.0	19.3
1 2	7 41.04	+35 51.2	1.816	2.770	6.1	19.2
1 12	7 31.16	+36 50.1	1.821	2.783	5.3	19.2
1 22	7 21.27	+37 30.8	1.854	2.796	7.2	19.3
2 1	7 12.66	+37 51.7	1.915	2.809	10.2	19.5
2 11	7 6.39	+37 54.8	1.999	2.823	13.1	19.7
2 21	7 3.02	+37 43.7	2.103	2.838	15.6	19.9

445292 2010 AF_{26} 1 12.1 29°.93 2°.4/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.22	+26 37.3	1.145	2.021	17.0	20.9
12 23	7 53.37	+26 46.7	1.094	2.027	12.0	20.7
1 2	7 43.18	+26 53.9	1.065	2.034	6.4	20.4
1 12	7 31.20	+26 53.1	1.060	2.042	2.4	20.1
1 22	7 19.41	+26 41.0	1.081	2.050	6.7	20.4
2 1	7 9.70	+26 17.8	1.127	2.058	12.1	20.8
2 11	7 3.45	+25 46.6	1.194	2.067	16.8	21.1
2 21	7 1.16	+25 10.7	1.279	2.077	20.6	21.3

398631 2012 BH_{149} 1 12.1 122°.67 2°.2/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.99	+27 45.5	1.907	2.760	12.3	20.7
12 23	7 52.24	+27 58.9	1.848	2.770	8.7	20.5
1 2	7 42.29	+28 9.1	1.815	2.781	4.7	20.3
1 12	7 31.20	+28 12.1	1.811	2.791	2.3	20.2
1 22	7 20.24	+28 5.8	1.837	2.800	5.1	20.4
2 1	7 10.64	+27 50.0	1.892	2.810	8.9	20.6
2 11	7 3.36	+27 26.5	1.972	2.819	12.3	20.9
2 21	6 58.90	+26 57.8	2.074	2.827	15.2	21.1

468715 2010 DQ_{55} 1 12.1 3°.60 4°.4/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 50.95	+ 5 23.4	2.368	3.178	11.7	21.2
12 23	7 45.67	+ 5 41.4	2.292	3.178	9.0	21.0
1 2	7 38.86	+ 6 14.4	2.241	3.179	6.3	20.9
1 12	7 31.17	+ 7 1.6	2.218	3.179	4.5	20.7
1 22	7 23.38	+ 8 0.2	2.225	3.179	5.2	20.8
2 1	7 16.31	+ 9 6.7	2.261	3.179	7.6	20.9
2 11	7 10.70	+10 16.7	2.324	3.179	10.4	21.1
2 21	7 7.01	+11 26.6	2.411	3.180	12.9	21.3

463247 2012 FH_{39} 1 12.1 278°.91 7°.5/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.50	+40 54.7	1.787	2.627	13.6	21.1
12 23	7 55.32	+41 34.3	1.719	2.620	10.7	20.9
1 2	7 44.12	+41 59.1	1.676	2.612	8.3	20.8
1 12	7 31.22	+42 1.7	1.659	2.604	7.5	20.7
1 22	7 18.32	+41 38.3	1.669	2.596	9.1	20.8
2 1	7 7.15	+40 50.4	1.706	2.589	12.0	20.9
2 11	6 59.00	+39 43.7	1.766	2.581	15.0	21.1
2 21	6 54.48	+38 25.3	1.846	2.573	17.7	21.3

457680 2009 DZ_{82} 1 12.1 302°.33 1°.5/11.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.81	+23 30.5	1.480	2.347	14.4	21.4
12 23	7 50.78	+24 3.2	1.403	2.333	10.2	21.1
1 2	7 41.89	+24 39.8	1.349	2.319	5.4	20.8
1 12	7 31.20	+25 14.8	1.323	2.305	1.5	20.5
1 22	7 20.18	+25 43.2	1.323	2.291	5.8	20.8
2 1	7 10.45	+26 1.8	1.350	2.278	10.8	21.0
2 11	7 3.39	+26 10.2	1.400	2.265	15.3	21.3
2 21	6 59.75	+26 9.7	1.470	2.252	19.1	21.5

59974 1999 RM_{254} 1 12.1 257°.29 1°.5/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.75	+15 19.1	2.247	3.086	11.2	19.7
12 23	7 48.59	+15 47.5	2.151	3.066	8.1	19.5
1 2	7 40.51	+16 25.1	2.082	3.045	4.6	19.2
1 12	7 31.21	+17 9.3	2.042	3.024	1.5	19.0
1 22	7 21.59	+17 57.0	2.033	3.002	4.0	19.1
2 1	7 12.67	+18 44.7	2.054	2.980	7.8	19.3
2 11	7 5.37	+19 29.9	2.102	2.957	11.4	19.5
2 21	7 0.33	+20 10.8	2.173	2.934	14.4	19.6

394901 2008 UZ_{308} 1 12.1 102°.87 3°.3/11.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.66	+28 42.7	1.561	2.419	14.3	21.2
12 23	7 54.43	+29 18.7	1.513	2.437	10.1	21.0
1 2	7 43.51	+29 50.5	1.490	2.455	5.7	20.8
1 12	7 31.24	+30 12.0	1.495	2.472	3.3	20.7
1 22	7 19.19	+30 19.4	1.528	2.488	6.3	20.9
2 1	7 8.89	+30 12.5	1.588	2.504	10.4	21.2
2 11	7 1.47	+29 54.0	1.673	2.520	14.1	21.4
2 21	6 57.41	+29 27.5	1.777	2.535	17.2	21.7

373372 2012 LK_{17} 1 12.1 169°.52 2°.8/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.67	+12 25.7	2.110	2.945	12.0	21.4
12 23	7 47.71	+12 31.7	2.037	2.947	8.8	21.2
1 2	7 39.96	+12 48.2	1.990	2.947	5.3	21.0
1 12	7 31.20	+13 13.5	1.972	2.948	2.9	20.8
1 22	7 22.36	+13 45.4	1.983	2.949	4.5	20.9
2 1	7 14.42	+14 21.1	2.024	2.949	7.9	21.1
2 11	7 8.19	+14 57.7	2.090	2.950	11.2	21.3
2 21	7 4.22	+15 33.2	2.180	2.950	14.0	21.5

387557 2001 RE_{14} 1 12.1 147°.55 0°.2/12.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 49.58	+21 53.8	3.842	4.683	6.9	21.9
12 23	7 44.26	+22 6.9	3.772	4.691	4.8	21.7
1 2	7 37.98	+22 21.2	3.732	4.699	2.5	21.6
1 12	7 31.18	+22 35.2	3.723	4.706	0.2	21.4
1 22	7 24.38	+22 47.8	3.746	4.713	2.4	21.6
2 1	7 18.09	+22 57.9	3.800	4.720	4.8	21.8
2 11	7 12.77	+23 5.2	3.882	4.727	6.8	21.9
2 21	7 8.76	+23 9.5	3.990	4.733	8.6	22.1

278832 2008 ST_{286} 1 12.1 221°.26 3°.5/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.53	+11 27.1	2.303	3.131	11.4	20.1
12 23	7 48.20	+10 59.9	2.223	3.125	8.5	19.9
1 2	7 40.19	+10 41.3	2.169	3.120	5.5	19.7
1 12	7 31.21	+10 31.5	2.144	3.114	3.5	19.6
1 22	7 22.15	+10 29.8	2.149	3.108	4.9	19.6
2 1	7 13.90	+10 35.1	2.183	3.102	7.8	19.8
2 11	7 7.25	+10 45.6	2.244	3.095	10.9	20.0
2 21	7 2.71	+10 59.4	2.327	3.088	13.5	20.2

120367 Grabow 1 12.1 107°.99 3°.4/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.91	+11 46.2	1.575	2.414	15.2	20.1
12 23	7 52.29	+11 58.4	1.525	2.435	11.1	19.9
1 2	7 42.36	+12 24.7	1.499	2.456	6.7	19.7
1 12	7 31.24	+13 2.2	1.500	2.476	3.5	19.6
1 22	7 20.27	+13 47.0	1.530	2.496	5.5	19.8
2 1	7 10.76	+14 34.8	1.588	2.515	9.6	20.0
2 11	7 3.72	+15 21.8	1.672	2.533	13.4	20.3
2 21	6 59.63	+16 5.3	1.776	2.551	16.6	20.6

314924 2006 WM_{33} 1 12.1 135°.24 0°.5/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.33	+18 59.7	1.849	2.701	12.7	21.2
12 23	7 49.79	+19 24.4	1.783	2.706	8.9	21.0
1 2	7 41.11	+19 55.2	1.743	2.711	4.7	20.8
1 12	7 31.24	+20 28.8	1.732	2.715	0.5	20.5
1 22	7 21.31	+21 1.4	1.750	2.719	4.4	20.8
2 1	7 12.52	+21 30.5	1.796	2.724	8.6	21.0
2 11	7 5.82	+21 54.3	1.868	2.727	12.3	21.3
2 21	7 1.79	+22 12.6	1.962	2.731	15.4	21.5

42356 2002 CA_{47} 1 12.1 221°.17 3°.0/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.59	+12 54.5	1.638	2.482	14.4	20.0
12 23	7 50.22	+13 3.7	1.564	2.479	10.6	19.7
1 2	7 41.45	+13 25.8	1.515	2.475	6.3	19.5
1 12	7 31.25	+13 59.1	1.493	2.471	3.1	19.2
1 22	7 20.88	+14 39.9	1.500	2.467	5.4	19.4
2 1	7 11.66	+15 24.4	1.534	2.463	9.7	19.6
2 11	7 4.70	+16 8.9	1.593	2.458	13.7	19.9
2 21	7 0.65	+16 50.6	1.672	2.453	17.2	20.1

305044 2007 UB_{8} 1 12.1 8°.39 5°.5/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.20	+12 53.6	1.217	2.078	17.3	19.9
12 23	7 50.29	+11 45.3	1.159	2.079	12.9	19.7
1 2	7 41.55	+10 49.1	1.123	2.081	8.3	19.4
1 12	7 31.25	+10 7.6	1.112	2.084	5.5	19.3
1 22	7 20.99	+ 9 41.8	1.125	2.088	7.6	19.4
2 1	7 12.36	+ 9 30.9	1.163	2.093	12.0	19.7
2 11	7 6.58	+ 9 31.9	1.223	2.099	16.3	19.9
2 21	7 4.23	+ 9 41.1	1.302	2.106	20.0	20.2

285633 2000 RH_{88} 1 12.1 131°.97 7°.3/17.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 51.20	− 7 4.9	2.752	3.488	12.1	21.0
12 23	7 45.64	− 7 4.2	2.681	3.496	10.3	20.9
1 2	7 38.78	− 6 43.8	2.634	3.505	8.6	20.8
1 12	7 31.22	− 6 3.1	2.613	3.513	7.5	20.8
1 22	7 23.64	− 5 3.5	2.620	3.521	7.5	20.8
2 1	7 16.72	− 3 48.3	2.656	3.528	8.6	20.8
2 11	7 11.07	− 2 22.2	2.718	3.536	10.2	21.0
2 21	7 7.10	− 0 50.5	2.804	3.543	12.0	21.1

160733 2000 RE_{22} 1 12.1 171°.27 0°.4/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.61	+21 51.0	1.925	2.774	12.4	21.0
12 23	7 52.04	+22 8.5	1.857	2.778	8.7	20.8
1 2	7 42.27	+22 28.8	1.814	2.781	4.5	20.5
1 12	7 31.28	+22 48.1	1.801	2.784	0.4	20.2
1 22	7 20.24	+23 3.7	1.818	2.786	4.5	20.5
2 1	7 10.38	+23 13.8	1.864	2.787	8.6	20.8
2 11	7 2.70	+23 18.2	1.936	2.788	12.3	21.0
2 21	6 57.76	+23 17.7	2.030	2.787	15.4	21.2

91374 1999 JZ_{98} 1 12.1 261°.22 5°.1/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.71	+ 5 32.0	2.071	2.884	13.0	20.5
12 23	7 47.91	+ 5 37.9	1.980	2.868	10.2	20.3
1 2	7 40.19	+ 6 0.6	1.913	2.852	7.2	20.1
1 12	7 31.26	+ 6 39.9	1.874	2.835	5.2	20.0
1 22	7 22.04	+ 7 33.7	1.864	2.818	6.0	20.0
2 1	7 13.57	+ 8 38.2	1.882	2.800	8.9	20.1
2 11	7 6.78	+ 9 48.6	1.927	2.782	12.2	20.3
2 21	7 2.29	+11 0.3	1.994	2.764	15.2	20.4

32337 2000 QM_{87} 1 12.1 259°.45 2°.3/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 52.08	+13 37.7	2.434	3.270	10.6	19.3
12 23	7 46.50	+13 40.9	2.352	3.263	7.7	19.1
1 2	7 39.33	+13 52.2	2.296	3.255	4.6	18.9
1 12	7 31.25	+14 10.3	2.270	3.247	2.3	18.7
1 22	7 23.05	+14 33.6	2.273	3.239	4.0	18.8
2 1	7 15.56	+14 59.9	2.306	3.231	7.1	19.0
2 11	7 9.55	+15 27.2	2.366	3.223	10.2	19.2
2 21	7 5.50	+15 53.7	2.450	3.215	12.8	19.3

408652 2014 MO_{15} 1 12.1 173°.73 2°.3/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.00	+15 55.4	1.710	2.556	13.9	21.5
12 23	7 51.75	+15 43.7	1.641	2.558	10.0	21.3
1 2	7 42.17	+15 40.0	1.597	2.560	5.7	21.0
1 12	7 31.28	+15 42.8	1.581	2.561	2.3	20.8
1 22	7 20.35	+15 50.1	1.594	2.562	5.1	21.0
2 1	7 10.66	+16 0.1	1.635	2.562	9.4	21.2
2 11	7 3.27	+16 11.2	1.702	2.562	13.3	21.5
2 21	6 58.77	+16 22.1	1.789	2.561	16.6	21.7

224284 2005 TZ_{77} 1 12.1 114°.54 7°.7/ 8.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.04	+42 41.3	2.081	2.911	12.4	20.0
12 23	7 54.72	+43 58.8	2.036	2.925	9.9	19.9
1 2	7 43.74	+45 1.7	2.017	2.938	8.1	19.8
1 12	7 31.30	+45 42.6	2.026	2.952	7.8	19.8
1 22	7 18.90	+45 57.9	2.062	2.965	9.1	19.9
2 1	7 8.07	+45 48.2	2.124	2.977	11.2	20.1
2 11	6 59.94	+45 17.8	2.209	2.990	13.5	20.3
2 21	6 55.11	+44 32.9	2.314	3.001	15.5	20.5

103984 2000 DH_{86} 1 12.1 156°.39 4°.8/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.66	+35 38.6	2.237	3.077	11.2	20.0
12 23	7 53.39	+36 20.7	2.177	3.085	8.4	19.8
1 2	7 42.93	+36 54.3	2.144	3.093	5.8	19.7
1 12	7 31.30	+37 13.8	2.140	3.099	4.8	19.6
1 22	7 19.70	+37 16.5	2.167	3.106	6.5	19.7
2 1	7 9.39	+37 2.4	2.221	3.111	9.2	19.9
2 11	7 1.34	+36 34.4	2.302	3.116	11.9	20.1
2 21	6 56.07	+35 56.6	2.403	3.120	14.3	20.3

9216 Masuzawa 1 12.1 80°.85 1°.6/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.26	+17 16.6	1.339	2.198	16.1	17.1
12 23	7 52.85	+17 23.8	1.292	2.216	11.4	16.9
1 2	7 42.75	+17 40.2	1.269	2.235	6.2	16.6
1 12	7 31.29	+18 2.3	1.272	2.254	1.6	16.4
1 22	7 20.06	+18 26.2	1.302	2.272	5.5	16.7
2 1	7 10.57	+18 48.9	1.359	2.291	10.4	17.0
2 11	7 3.95	+19 8.6	1.439	2.309	14.7	17.3
2 21	7 0.69	+19 24.5	1.540	2.327	18.2	17.6

241025 2006 QF_{47} 1 12.1 57°.72 0°.7/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.20	+21 33.2	2.202	3.056	10.9	20.2
12 23	7 47.40	+22 20.6	2.139	3.063	7.6	20.0
1 2	7 39.83	+23 11.8	2.102	3.070	3.9	19.8
1 12	7 31.26	+24 2.9	2.094	3.077	0.7	19.6
1 22	7 22.63	+24 49.9	2.117	3.085	4.0	19.8
2 1	7 14.91	+25 30.1	2.169	3.092	7.6	20.1
2 11	7 8.92	+26 2.2	2.247	3.100	10.8	20.3
2 21	7 5.18	+26 26.1	2.348	3.107	13.5	20.5

206888 2004 GC_{21} 1 12.1 315°.04 1°.1/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.84	+22 25.2	2.047	2.904	11.4	20.2
12 23	7 47.43	+23 12.9	1.964	2.890	8.0	19.9
1 2	7 39.98	+24 5.2	1.908	2.877	4.2	19.7
1 12	7 31.26	+24 57.7	1.881	2.863	1.1	19.4
1 22	7 22.30	+25 46.0	1.883	2.850	4.5	19.6
2 1	7 14.18	+26 26.8	1.914	2.837	8.4	19.9
2 11	7 7.90	+26 58.5	1.970	2.825	12.0	20.1
2 21	7 4.10	+27 21.1	2.048	2.813	15.0	20.2

233393 2006 FP_{17} 1 12.1 165°.12 5°.1/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.21	+ 4 37.2	2.398	3.195	12.0	21.6
12 23	7 49.26	+ 4 27.0	2.326	3.202	9.4	21.5
1 2	7 40.71	+ 4 30.8	2.279	3.209	6.8	21.3
1 12	7 31.28	+ 4 48.7	2.262	3.215	5.1	21.2
1 22	7 21.80	+ 5 19.2	2.274	3.220	5.8	21.3
2 1	7 13.15	+ 5 59.7	2.317	3.224	8.1	21.4
2 11	7 6.06	+ 6 46.6	2.387	3.227	10.7	21.6
2 21	7 1.02	+ 7 36.6	2.480	3.229	13.1	21.8

84745 2002 XL_{4} 1 12.1 78°.38 2°.7/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.61	+16 27.1	1.671	2.518	14.1	17.9
12 23	7 51.99	+15 43.4	1.615	2.532	10.1	17.7
1 2	7 42.18	+15 6.1	1.585	2.547	5.8	17.5
1 12	7 31.29	+14 35.3	1.583	2.561	2.8	17.3
1 22	7 20.60	+14 10.8	1.609	2.576	5.2	17.5
2 1	7 11.33	+13 52.3	1.664	2.590	9.3	17.8
2 11	7 4.44	+13 39.0	1.745	2.604	13.0	18.1
2 21	7 0.38	+13 29.9	1.846	2.619	16.1	18.3

118725 2000 QD_{82} 1 12.1 231°.17 5°.0/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 0.98	+36 8.9	2.204	3.046	11.3	19.7
12 23	7 53.10	+36 43.0	2.127	3.035	8.5	19.5
1 2	7 42.88	+37 8.2	2.076	3.025	5.9	19.4
1 12	7 31.31	+37 19.3	2.054	3.013	5.0	19.3
1 22	7 19.62	+37 13.1	2.062	3.002	6.7	19.4
2 1	7 9.12	+36 49.6	2.098	2.990	9.6	19.5
2 11	7 0.88	+36 11.7	2.159	2.977	12.5	19.7
2 21	6 55.52	+35 23.7	2.242	2.964	15.1	19.8

41528 2000 RN_{4} 1 12.1 57°.32 3°.0/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.59	+12 42.3	1.345	2.200	16.3	18.3
12 23	7 50.33	+13 8.5	1.296	2.215	11.8	18.1
1 2	7 41.49	+13 50.5	1.270	2.232	6.9	17.9
1 12	7 31.29	+14 44.6	1.269	2.248	3.1	17.7
1 22	7 21.18	+15 45.0	1.296	2.265	5.7	17.9
2 1	7 12.61	+16 46.1	1.348	2.282	10.3	18.2
2 11	7 6.71	+17 43.2	1.425	2.299	14.5	18.5
2 21	7 4.01	+18 33.6	1.522	2.316	18.0	18.8

193216 2000 RC 1 12.1 232°.17 18°.4/20.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.11	−17 19.8	1.235	1.962	24.6	20.0
12 23	7 51.19	−18 23.6	1.172	1.959	22.5	19.8
1 2	7 42.21	−18 40.8	1.123	1.955	20.4	19.6
1 12	7 31.31	−18 2.0	1.092	1.951	18.8	19.5
1 22	7 20.08	−16 25.1	1.079	1.947	18.4	19.5
2 1	7 10.25	−13 56.3	1.086	1.943	19.3	19.5
2 11	7 3.31	−10 50.5	1.113	1.938	21.2	19.6
2 21	7 0.05	− 7 25.7	1.158	1.933	23.7	19.8

162758 2000 WA_{96} 1 12.1 41°.59 1°.5/11.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.97	+22 35.3	1.143	2.020	16.9	19.3
12 23	7 51.61	+23 23.1	1.106	2.040	11.8	19.1
1 2	7 42.22	+24 15.1	1.092	2.062	6.0	18.8
1 12	7 31.31	+25 3.8	1.102	2.084	1.5	18.6
1 22	7 20.69	+25 43.1	1.138	2.107	6.2	19.0
2 1	7 12.08	+26 9.7	1.199	2.131	11.4	19.3
2 11	7 6.68	+26 24.0	1.282	2.155	15.9	19.7
2 21	7 4.94	+26 27.8	1.383	2.180	19.4	20.0

368530 2003 WN_{70} 1 12.1 44°.21 0°.3/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.57	+20 55.1	1.633	2.494	13.6	20.4
12 23	7 49.27	+21 23.0	1.591	2.518	9.4	20.2
1 2	7 40.81	+21 55.1	1.573	2.542	4.8	20.0
1 12	7 31.29	+22 27.3	1.583	2.567	0.3	19.7
1 22	7 21.97	+22 55.9	1.622	2.592	4.7	20.1
2 1	7 14.06	+23 18.4	1.688	2.617	8.9	20.4
2 11	7 8.48	+23 34.2	1.778	2.642	12.6	20.7
2 21	7 5.66	+23 43.5	1.890	2.668	15.6	21.0

317571 2002 VB_{120} 1 12.1 106°.35 2°.4/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.35	+15 22.9	1.993	2.829	12.6	20.4
12 23	7 51.53	+14 59.4	1.940	2.851	9.0	20.2
1 2	7 41.86	+14 42.8	1.913	2.873	5.2	20.0
1 12	7 31.32	+14 32.2	1.916	2.894	2.5	19.9
1 22	7 20.96	+14 26.6	1.949	2.915	4.6	20.1
2 1	7 11.84	+14 25.0	2.012	2.935	8.1	20.3
2 11	7 4.76	+14 26.0	2.102	2.955	11.4	20.6
2 21	7 0.16	+14 28.6	2.213	2.973	14.2	20.8

137205 1999 LN_{11} 1 12.1 208°.38 4°.5/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 50.80	+ 3 30.4	3.055	3.846	9.8	21.5
12 23	7 45.34	+ 3 25.6	2.970	3.840	7.8	21.3
1 2	7 38.66	+ 3 32.6	2.910	3.834	5.8	21.2
1 12	7 31.28	+ 3 51.7	2.880	3.827	4.5	21.1
1 22	7 23.80	+ 4 21.8	2.879	3.820	5.0	21.1
2 1	7 16.85	+ 5 0.9	2.909	3.813	6.7	21.2
2 11	7 11.03	+ 5 46.3	2.966	3.805	8.9	21.4
2 21	7 6.73	+ 6 35.0	3.047	3.796	10.9	21.5

454185 2013 GB_{76} 1 12.1 329°.62 0°.2/12.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.22	+20 34.8	1.301	2.172	15.7	21.5
12 23	7 50.53	+20 46.5	1.231	2.162	11.1	21.2
1 2	7 41.83	+21 4.8	1.183	2.153	5.8	20.9
1 12	7 31.31	+21 25.5	1.161	2.144	0.2	20.4
1 22	7 20.55	+21 44.6	1.165	2.136	5.7	20.8
2 1	7 11.27	+21 59.1	1.194	2.129	11.2	21.1
2 11	7 4.85	+22 7.9	1.246	2.122	16.0	21.4
2 21	7 2.03	+22 11.2	1.316	2.116	20.1	21.6

266878 2009 VN_{64} 1 12.1 71°.79 2°.3/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.16	+27 0.0	1.848	2.706	12.4	21.3
12 23	7 50.42	+27 28.7	1.789	2.714	8.7	21.1
1 2	7 41.46	+27 55.8	1.756	2.723	4.8	20.9
1 12	7 31.31	+28 16.7	1.752	2.731	2.3	20.8
1 22	7 21.21	+28 28.3	1.776	2.739	5.2	21.0
2 1	7 12.38	+28 29.5	1.828	2.748	9.1	21.2
2 11	7 5.82	+28 21.3	1.906	2.756	12.5	21.4
2 21	7 2.05	+28 5.8	2.004	2.765	15.4	21.7

367168 2006 WZ_{86} 1 12.1 42°.23 4°.0/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 57.79	+14 17.6	1.448	2.301	15.5	19.8
12 23	7 50.96	+13 26.7	1.397	2.315	11.3	19.5
1 2	7 41.73	+12 45.9	1.370	2.329	6.9	19.3
1 12	7 31.32	+12 15.8	1.368	2.344	4.0	19.2
1 22	7 21.10	+11 56.4	1.395	2.359	6.1	19.4
2 1	7 12.43	+11 46.5	1.447	2.375	10.3	19.6
2 11	7 6.30	+11 44.2	1.524	2.391	14.2	19.9
2 21	7 3.20	+11 47.0	1.621	2.408	17.4	20.2

30271 Brandoncui 1 12.1 332°.46 3°.2/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.66	+14 37.8	1.397	2.252	15.8	18.9
12 23	7 51.21	+14 22.6	1.330	2.251	11.5	18.7
1 2	7 42.05	+14 18.7	1.287	2.249	6.8	18.4
1 12	7 31.32	+14 25.0	1.269	2.248	3.2	18.2
1 22	7 20.49	+14 39.1	1.279	2.247	5.9	18.4
2 1	7 11.07	+14 58.3	1.314	2.246	10.7	18.6
2 11	7 4.31	+15 19.8	1.374	2.245	15.1	18.9
2 21	7 0.85	+15 41.2	1.452	2.244	18.9	19.1

103807 2000 DM_{18} 1 12.1 285°.68 3°.7/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.32	+30 10.3	1.696	2.555	13.3	19.9
12 23	7 52.45	+30 40.3	1.613	2.536	9.6	19.6
1 2	7 42.77	+31 6.3	1.555	2.518	5.7	19.3
1 12	7 31.34	+31 22.3	1.524	2.499	3.8	19.2
1 22	7 19.60	+31 23.9	1.522	2.480	6.5	19.3
2 1	7 9.14	+31 10.2	1.546	2.462	10.7	19.5
2 11	7 1.26	+30 43.2	1.595	2.443	14.7	19.7
2 21	6 56.73	+30 6.8	1.663	2.424	18.1	19.9

333971 2000 HZ 1 12.1 105°.48 4°.2/10.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.76	+33 39.3	2.284	3.133	10.7	20.7
12 23	7 49.96	+34 26.7	2.225	3.140	7.9	20.6
1 2	7 41.18	+35 7.9	2.193	3.147	5.2	20.4
1 12	7 31.32	+35 37.9	2.190	3.154	4.3	20.4
1 22	7 21.45	+35 53.6	2.217	3.161	6.0	20.5
2 1	7 12.67	+35 54.4	2.272	3.168	8.7	20.7
2 11	7 5.89	+35 42.1	2.352	3.175	11.4	20.9
2 21	7 1.63	+35 19.4	2.453	3.181	13.8	21.1

260757 2005 MY_{33} 1 12.1 280°.37 3°.2/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.87	+14 53.5	1.769	2.612	13.6	20.2
12 23	7 51.15	+14 16.3	1.676	2.590	10.0	19.9
1 2	7 42.01	+13 45.8	1.607	2.567	6.1	19.7
1 12	7 31.33	+13 22.1	1.567	2.544	3.3	19.4
1 22	7 20.31	+13 5.3	1.556	2.521	5.6	19.5
2 1	7 10.27	+12 54.7	1.573	2.497	9.8	19.7
2 11	7 2.37	+12 49.4	1.615	2.474	13.9	19.9
2 21	6 57.34	+12 48.0	1.677	2.450	17.5	20.1

394879 2008 UL_{66} 1 12.1 116°.57 0°.8/12.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.92	+19 14.7	1.672	2.521	13.9	21.3
12 23	7 52.99	+19 16.6	1.618	2.538	9.8	21.1
1 2	7 42.76	+19 23.5	1.589	2.555	5.2	20.9
1 12	7 31.35	+19 32.6	1.588	2.571	0.9	20.6
1 22	7 20.10	+19 41.3	1.617	2.587	4.7	20.9
2 1	7 10.32	+19 48.1	1.675	2.601	9.2	21.2
2 11	7 3.00	+19 52.3	1.757	2.616	13.0	21.5
2 21	6 58.65	+19 54.0	1.861	2.629	16.2	21.7

259323 2003 FN_{68} 1 12.1 101°.68 5°.6/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.40	+35 3.8	1.901	2.753	12.4	20.2
12 23	7 52.18	+36 11.1	1.847	2.761	9.3	20.1
1 2	7 42.47	+37 10.4	1.818	2.768	6.5	19.9
1 12	7 31.35	+37 54.6	1.818	2.776	5.6	19.9
1 22	7 20.21	+38 19.2	1.845	2.783	7.5	20.0
2 1	7 10.44	+38 23.4	1.900	2.791	10.5	20.2
2 11	7 3.17	+38 10.1	1.979	2.798	13.4	20.4
2 21	6 58.97	+37 43.6	2.077	2.805	15.9	20.6

429065 2009 FY_{33} 1 12.1 248°.48 3°.5/10.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.25	+32 52.1	2.480	3.327	10.0	20.9
12 23	7 49.50	+33 13.6	2.407	3.322	7.3	20.7
1 2	7 40.92	+33 29.3	2.361	3.318	4.6	20.6
1 12	7 31.33	+33 35.5	2.345	3.313	3.5	20.5
1 22	7 21.72	+33 30.1	2.358	3.309	5.2	20.6
2 1	7 13.08	+33 12.9	2.401	3.304	8.0	20.8
2 11	7 6.24	+32 45.6	2.469	3.299	10.7	20.9
2 21	7 1.73	+32 10.8	2.560	3.294	13.1	21.1

74444 1999 CJ_{12} 1 12.1 45°.72 18°.0/23.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.76	−17 24.2	0.982	1.737	28.0	17.5
12 23	7 50.41	−17 31.7	0.935	1.748	25.0	17.3
1 2	7 41.80	−16 39.0	0.900	1.760	21.9	17.2
1 12	7 31.35	−14 39.3	0.882	1.772	19.3	17.0
1 22	7 20.88	−11 37.1	0.882	1.785	18.0	17.0
2 1	7 12.30	− 7 47.9	0.904	1.798	18.7	17.1
2 11	7 7.02	− 3 36.0	0.947	1.812	20.9	17.3
2 21	7 5.68	+ 0 35.1	1.010	1.826	23.7	17.5

62603 2000 SD_{320} 1 12.1 324°.28 1°.1/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 55.30	+23 3.4	1.617	2.482	13.5	18.6
12 23	7 49.50	+23 30.6	1.543	2.472	9.5	18.3
1 2	7 41.18	+24 1.4	1.494	2.463	5.0	18.0
1 12	7 31.34	+24 31.1	1.471	2.454	1.1	17.8
1 22	7 21.29	+24 55.5	1.477	2.445	5.2	18.0
2 1	7 12.45	+25 12.1	1.509	2.437	9.9	18.3
2 11	7 6.00	+25 20.4	1.565	2.430	14.0	18.5
2 21	7 2.61	+25 21.0	1.642	2.423	17.5	18.7

286013 2001 SC_{135} 1 12.1 91°.12 2°.5/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.75	+14 15.0	1.790	2.635	13.4	21.0
12 23	7 49.37	+14 17.8	1.728	2.644	9.7	20.8
1 2	7 40.92	+14 30.5	1.692	2.653	5.6	20.6
1 12	7 31.35	+14 51.5	1.683	2.661	2.6	20.4
1 22	7 21.79	+15 17.9	1.702	2.670	4.8	20.6
2 1	7 13.38	+15 46.8	1.750	2.679	8.7	20.9
2 11	7 7.05	+16 15.9	1.824	2.687	12.4	21.1
2 21	7 3.34	+16 43.0	1.919	2.696	15.5	21.3

314226 2005 OU_9 1 12.1 217°.57 0°.4/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.36	+18 45.9	2.286	3.128	10.9	21.4
12 23	7 49.67	+19 14.2	2.201	3.119	7.7	21.1
1 2	7 41.09	+19 48.1	2.143	3.109	4.1	20.9
1 12	7 31.36	+20 24.7	2.115	3.098	0.4	20.6
1 22	7 21.42	+21 0.8	2.118	3.087	3.9	20.8
2 1	7 12.29	+21 33.9	2.152	3.075	7.6	21.1
2 11	7 4.86	+22 2.2	2.212	3.063	11.0	21.2
2 21	6 59.71	+22 25.4	2.296	3.050	13.9	21.4

293931 2007 TU_5 1 12.1 152°.33 1°.0/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.75	+23 23.8	2.019	2.867	11.9	22.2
12 23	7 52.07	+23 48.8	1.955	2.876	8.3	22.0
1 2	7 42.29	+24 15.1	1.918	2.885	4.3	21.8
1 12	7 31.38	+24 38.7	1.911	2.894	1.0	21.6
1 22	7 20.48	+24 56.7	1.934	2.901	4.4	21.8
2 1	7 10.76	+25 7.4	1.987	2.908	8.4	22.1
2 11	7 3.16	+25 11.0	2.067	2.914	11.8	22.3
2 21	6 58.20	+25 8.8	2.168	2.919	14.7	22.5

457029 2008 CD_{159} 1 12.1 338°.90 1°.1/11.9 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.42	+24 55.0	1.191	2.071	16.2	21.0
12 23	7 50.26	+24 41.1	1.118	2.053	11.5	20.7
1 2	7 41.82	+24 26.1	1.066	2.037	6.1	20.4
1 12	7 31.37	+24 6.3	1.039	2.021	1.1	20.0
1 22	7 20.65	+23 39.6	1.036	2.008	6.2	20.3
2 1	7 11.57	+23 6.2	1.058	1.995	12.0	20.5
2 11	7 5.62	+22 28.3	1.101	1.985	17.1	20.8
2 21	7 3.56	+21 48.3	1.163	1.975	21.4	21.0

280671 2005 EC_{157} 1 12.1 13°.55 4°.2/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.27	+ 8 56.4	1.958	2.789	13.0	20.3
12 23	7 46.86	+ 8 54.9	1.888	2.790	9.8	20.1
1 2	7 39.62	+ 9 7.3	1.843	2.792	6.5	20.0
1 12	7 31.34	+ 9 33.0	1.825	2.793	4.3	19.8
1 22	7 22.99	+10 9.5	1.835	2.796	5.4	19.9
2 1	7 15.56	+10 53.7	1.874	2.798	8.5	20.1
2 11	7 9.91	+11 41.8	1.938	2.801	11.8	20.3
2 21	7 6.56	+12 30.1	2.024	2.804	14.7	20.5

507355 2011 VV_5 1 12.1 215°.68 5°.8/12.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 26.99	+11 29.8	1.404	2.202	18.9	22.5
12 23	8 12.67	+10 32.3	1.302	2.190	14.4	22.2
1 2	7 53.74	+ 9 42.4	1.226	2.173	9.3	21.8
1 12	7 31.56	+ 9 1.6	1.182	2.152	5.8	21.6
1 22	7 8.44	+ 8 31.6	1.174	2.127	8.8	21.7
2 1	6 47.08	+ 8 13.4	1.199	2.098	14.6	21.9
2 11	6 29.64	+ 8 6.3	1.251	2.063	20.1	22.2
2 21	6 17.15	+ 8 8.5	1.323	2.025	24.6	22.4

92721 2000 QX_{93} 1 12.1 331°.34 2°.1/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.95	+17 4.2	1.359	2.222	15.7	18.8
12 23	7 50.85	+16 56.2	1.291	2.217	11.3	18.5
1 2	7 41.95	+16 57.5	1.246	2.212	6.3	18.2
1 12	7 31.38	+17 5.9	1.226	2.207	2.1	17.9
1 22	7 20.65	+17 18.5	1.233	2.203	5.7	18.1
2 1	7 11.37	+17 33.0	1.266	2.200	10.8	18.4
2 11	7 4.80	+17 47.2	1.322	2.196	15.4	18.7
2 21	7 1.63	+17 59.7	1.397	2.193	19.3	18.9

101553 1999 AB_4 1 12.1 287°.44 9°.2/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 16.79	+41 33.4	1.053	1.906	20.0	18.8
12 23	8 6.15	+41 25.7	0.985	1.895	15.7	18.5
1 2	7 50.28	+40 49.5	0.937	1.884	11.4	18.2
1 12	7 31.51	+39 32.3	0.913	1.873	9.2	18.1
1 22	7 13.08	+37 31.9	0.913	1.863	11.4	18.2
2 1	6 58.10	+34 59.1	0.938	1.852	16.1	18.4
2 11	6 48.42	+32 11.8	0.985	1.841	21.0	18.6
2 21	6 44.40	+29 26.0	1.049	1.831	25.2	18.9

413675 2005 WR_{67} 1 12.1 34°.60 1°.5/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 55.29	+17 30.9	1.704	2.559	13.4	21.2
12 23	7 49.18	+17 31.4	1.641	2.564	9.6	20.9
1 2	7 40.88	+17 39.0	1.603	2.569	5.2	20.7
1 12	7 31.38	+17 51.6	1.592	2.574	1.5	20.5
1 22	7 21.88	+18 6.7	1.610	2.580	4.7	20.7
2 1	7 13.58	+18 22.1	1.655	2.585	9.0	21.0
2 11	7 7.48	+18 36.0	1.725	2.592	12.8	21.2
2 21	7 4.12	+18 47.7	1.816	2.598	16.0	21.4

233027 2005 EQ_{274} 1 12.2 256°.33 1°.5/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.44	+26 36.8	2.291	3.141	10.6	19.9
12 23	7 49.70	+26 39.6	2.211	3.133	7.5	19.6
1 2	7 41.07	+26 40.5	2.159	3.125	4.0	19.4
1 12	7 31.39	+26 36.7	2.136	3.117	1.5	19.2
1 22	7 21.64	+26 26.3	2.144	3.109	4.3	19.4
2 1	7 12.85	+26 9.2	2.181	3.101	7.8	19.6
2 11	7 5.89	+25 46.3	2.245	3.092	11.0	19.8
2 21	7 1.29	+25 19.1	2.331	3.084	13.7	20.0

92469 2000 KX_{62} 1 12.2 199°.10 4°.2/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.52	+ 9 3.7	1.963	2.785	13.3	20.7
12 23	7 50.60	+ 9 0.9	1.884	2.782	10.1	20.4
1 2	7 41.61	+ 9 11.8	1.829	2.777	6.6	20.2
1 12	7 31.40	+ 9 35.7	1.803	2.772	4.3	20.1
1 22	7 21.02	+10 10.4	1.807	2.766	5.6	20.1
2 1	7 11.58	+10 52.8	1.840	2.760	9.0	20.3
2 11	7 4.05	+11 39.1	1.899	2.752	12.4	20.5
2 21	6 59.04	+12 26.1	1.980	2.744	15.5	20.7

445062 2008 SO_{202} 1 12.2 45°.54 3°.4/13.1 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.52	+14 14.6	1.183	2.047	17.5	21.0
12 23	7 51.19	+14 6.6	1.138	2.062	12.6	20.8
1 2	7 42.03	+14 12.8	1.114	2.078	7.4	20.6
1 12	7 31.41	+14 31.1	1.115	2.095	3.4	20.4
1 22	7 20.98	+14 57.5	1.142	2.112	6.2	20.6
2 1	7 12.36	+15 28.2	1.194	2.129	11.1	20.9
2 11	7 6.69	+15 59.3	1.268	2.147	15.6	21.2
2 21	7 4.50	+16 28.0	1.361	2.165	19.3	21.5

373395 1993 TF_6 1 12.2 115°.61 4°.6/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.79	+ 6 46.0	2.334	3.146	11.8	21.1
12 23	7 47.60	+ 6 27.2	2.271	3.159	9.1	21.0
1 2	7 39.89	+ 6 21.0	2.234	3.172	6.4	20.8
1 12	7 31.38	+ 6 27.5	2.225	3.184	4.7	20.8
1 22	7 22.89	+ 6 45.3	2.245	3.196	5.5	20.8
2 1	7 15.26	+ 7 12.4	2.295	3.208	7.8	21.0
2 11	7 9.18	+ 7 45.7	2.371	3.219	10.5	21.2
2 21	7 5.10	+ 8 22.1	2.470	3.230	12.9	21.4

38284 1999 RD_{60} 1 12.2 181°.73 2°.1/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.38	+14 5.6	2.157	2.995	11.7	19.7
12 23	7 48.26	+14 20.8	2.084	2.996	8.4	19.5
1 2	7 40.34	+14 45.1	2.036	2.996	4.9	19.2
1 12	7 31.39	+15 16.6	2.017	2.996	2.1	19.1
1 22	7 22.35	+15 52.5	2.028	2.996	4.2	19.2
2 1	7 14.17	+16 30.1	2.069	2.995	7.7	19.4
2 11	7 7.71	+17 6.7	2.136	2.994	11.0	19.6
2 21	7 3.50	+17 40.7	2.226	2.993	13.9	19.8

143072 2002 WJ_{16} 1 12.2 115°.38 5°.1/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.30	+ 6 28.4	2.039	2.852	13.2	20.6
12 23	7 49.48	+ 6 13.9	1.981	2.870	10.2	20.4
1 2	7 40.89	+ 6 14.1	1.949	2.887	7.1	20.3
1 12	7 31.40	+ 6 28.8	1.944	2.904	5.1	20.2
1 22	7 21.98	+ 6 56.2	1.969	2.921	6.0	20.3
2 1	7 13.60	+ 7 33.3	2.022	2.937	8.6	20.5
2 11	7 7.06	+ 8 16.4	2.102	2.952	11.5	20.7
2 21	7 2.81	+ 9 1.7	2.204	2.967	14.1	20.9

466905 2015 EO_{17} 1 12.2 148°.91 0°.4/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.36	+20 54.6	2.476	3.324	10.0	21.1
12 23	7 47.42	+21 35.9	2.406	3.327	7.0	20.9
1 2	7 39.87	+22 21.1	2.363	3.331	3.6	20.7
1 12	7 31.39	+23 6.7	2.351	3.334	0.4	20.5
1 22	7 22.83	+23 49.5	2.369	3.337	3.6	20.7
2 1	7 15.06	+24 27.0	2.418	3.340	7.0	21.0
2 11	7 8.82	+24 57.9	2.493	3.343	10.0	21.2
2 21	7 4.62	+25 22.1	2.592	3.346	12.5	21.3

15321 Donnadean 1 12.2 147°.82 5°.1/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.91	+ 8 54.5	2.070	2.881	13.1	18.5
12 23	7 53.35	+ 7 54.3	2.004	2.893	10.0	18.4
1 2	7 42.89	+ 7 4.6	1.965	2.905	6.9	18.2
1 12	7 31.44	+ 6 27.1	1.956	2.916	5.1	18.1
1 22	7 20.08	+ 6 2.3	1.978	2.926	6.3	18.2
2 1	7 9.86	+ 5 49.7	2.030	2.936	9.1	18.4
2 11	7 1.64	+ 5 47.3	2.109	2.944	12.1	18.6
2 21	6 55.91	+ 5 52.6	2.209	2.951	14.7	18.8

414177 2008 BE_{38} 1 12.2 277°.90 3°.0/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 54.96	+12 48.2	1.756	2.600	13.7	21.4
12 23	7 49.10	+12 56.3	1.673	2.587	10.1	21.1
1 2	7 40.96	+13 16.8	1.615	2.574	6.1	20.9
1 12	7 31.41	+13 48.3	1.583	2.561	3.1	20.6
1 22	7 21.59	+14 27.7	1.581	2.548	5.2	20.8
2 1	7 12.74	+15 11.4	1.606	2.535	9.3	21.0
2 11	7 5.93	+15 55.9	1.656	2.522	13.3	21.2
2 21	7 1.87	+16 38.2	1.727	2.508	16.7	21.4

279911 2001 QZ_{333} 1 12.2 89°.01 6°.6/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.88	+ 0 41.2	2.376	3.162	12.4	20.3
12 23	7 46.93	+ 0 4.0	2.318	3.178	10.1	20.2
1 2	7 39.54	− 0 17.0	2.284	3.193	7.9	20.1
1 12	7 31.39	− 0 20.7	2.276	3.209	6.6	20.0
1 22	7 23.28	− 0 7.7	2.298	3.224	7.0	20.1
2 1	7 16.00	+ 0 19.9	2.347	3.239	8.7	20.2
2 11	7 10.22	+ 0 58.3	2.421	3.254	10.8	20.4
2 21	7 6.35	+ 1 43.5	2.519	3.269	12.9	20.5

428500 2007 WZ_{12} 1 12.2 80°.85 3°.0/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.21	+12 17.6	2.286	3.119	11.3	21.3
12 23	7 47.27	+12 1.3	2.219	3.126	8.3	21.1
1 2	7 39.75	+11 53.6	2.179	3.133	5.2	20.9
1 12	7 31.39	+11 54.3	2.167	3.140	3.1	20.8
1 22	7 23.04	+12 2.0	2.184	3.147	4.5	20.9
2 1	7 15.55	+12 15.1	2.231	3.154	7.5	21.1
2 11	7 9.65	+12 31.7	2.305	3.161	10.4	21.3
2 21	7 5.80	+12 49.8	2.401	3.168	13.0	21.5

200174 1999 JV_{12} 1 12.2 177°.39 0°.5/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.27	+20 29.8	1.751	2.605	13.2	20.2
12 23	7 51.40	+21 17.4	1.682	2.606	9.3	19.9
1 2	7 42.13	+22 11.3	1.639	2.607	4.8	19.7
1 12	7 31.43	+23 6.3	1.625	2.608	0.5	19.3
1 22	7 20.58	+23 57.2	1.640	2.608	4.8	19.7
2 1	7 10.90	+24 40.2	1.683	2.608	9.3	19.9
2 11	7 3.51	+25 13.8	1.752	2.607	13.2	20.2
2 21	6 59.04	+25 38.2	1.842	2.606	16.5	20.4

235019 2003 EF_{26} 1 12.2 310°.64 0°.5/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.51	+20 21.6	1.292	2.161	15.9	20.4
12 23	7 51.55	+20 22.7	1.217	2.147	11.4	20.1
1 2	7 42.47	+20 29.9	1.165	2.134	6.0	19.7
1 12	7 31.44	+20 39.7	1.137	2.120	0.5	19.3
1 22	7 20.08	+20 48.7	1.136	2.108	5.8	19.7
2 1	7 10.18	+20 54.6	1.160	2.095	11.5	19.9
2 11	7 3.21	+20 56.4	1.207	2.083	16.5	20.2
2 21	6 59.94	+20 54.6	1.272	2.072	20.6	20.4

373247 2012 GC_{10} 1 12.2 200°.45 0°.3/12.3 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.75	+19 50.0	2.364	3.208	10.6	22.5
12 23	7 49.14	+20 4.6	2.285	3.204	7.4	22.3
1 2	7 40.78	+20 23.0	2.234	3.200	3.9	22.0
1 12	7 31.42	+20 42.9	2.212	3.196	0.3	21.7
1 22	7 21.95	+21 1.7	2.222	3.191	3.7	22.0
2 1	7 13.31	+21 17.9	2.261	3.185	7.3	22.2
2 11	7 6.33	+21 30.6	2.328	3.179	10.5	22.4
2 21	7 1.54	+21 39.4	2.417	3.173	13.2	22.6

88647 2001 RX_{66} 1 12.2 296°.98 2°.5/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.05	+16 4.2	1.695	2.546	13.7	18.9
12 23	7 49.90	+15 44.5	1.613	2.532	9.9	18.6
1 2	7 41.38	+15 32.3	1.556	2.519	5.8	18.3
1 12	7 31.43	+15 26.7	1.526	2.506	2.5	18.1
1 22	7 21.26	+15 26.4	1.524	2.492	5.2	18.2
2 1	7 12.17	+15 30.0	1.550	2.479	9.6	18.5
2 11	7 5.27	+15 35.8	1.600	2.466	13.7	18.7
2 21	7 1.24	+15 42.6	1.671	2.454	17.2	18.9

293722 2007 RN_{5} 1 12.2 199°.35 0°.6/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.35	+22 7.5	1.920	2.770	12.4	21.8
12 23	7 52.01	+22 30.5	1.844	2.766	8.7	21.5
1 2	7 42.40	+22 56.4	1.795	2.763	4.5	21.3
1 12	7 31.45	+23 21.4	1.775	2.758	0.6	21.0
1 22	7 20.36	+23 42.2	1.785	2.753	4.6	21.3
2 1	7 10.37	+23 56.6	1.824	2.747	8.8	21.5
2 11	7 2.54	+24 4.5	1.889	2.740	12.6	21.7
2 21	6 57.49	+24 6.5	1.975	2.733	15.7	21.9

106525 2000 WZ_{55} 1 12.2 84°.66 3°.4/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.19	+26 28.3	1.272	2.139	16.3	18.4
12 23	7 55.26	+27 32.8	1.231	2.160	11.4	18.1
1 2	7 44.18	+28 36.2	1.214	2.181	6.3	17.9
1 12	7 31.47	+29 29.5	1.223	2.201	3.4	17.8
1 22	7 19.02	+30 6.4	1.259	2.221	7.0	18.1
2 1	7 8.60	+30 25.1	1.321	2.241	11.7	18.4
2 11	7 1.51	+30 27.9	1.405	2.261	15.9	18.7
2 21	6 58.24	+30 18.8	1.509	2.280	19.2	19.0

205905 2002 GJ_{78} 1 12.2 343°.12 3°.7/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 57.37	+28 28.0	1.197	2.075	16.2	19.4
12 23	7 51.67	+28 55.5	1.133	2.066	11.6	19.1
1 2	7 42.58	+29 20.0	1.090	2.058	6.6	18.8
1 12	7 31.46	+29 34.5	1.072	2.051	3.7	18.6
1 22	7 20.16	+29 33.9	1.079	2.045	7.4	18.8
2 1	7 10.67	+29 17.3	1.111	2.040	12.5	19.0
2 11	7 4.49	+28 47.5	1.163	2.035	17.2	19.3
2 21	7 2.32	+28 8.8	1.233	2.032	21.2	19.5

347087 2010 GV_{108} 1 12.2 184°.72 1°.5/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.60	+25 43.8	2.798	3.645	9.0	21.7
12 23	7 47.49	+26 16.2	2.724	3.645	6.3	21.6
1 2	7 39.88	+26 48.5	2.679	3.645	3.4	21.4
1 12	7 31.43	+27 17.7	2.664	3.644	1.5	21.2
1 22	7 22.89	+27 41.3	2.680	3.643	3.7	21.4
2 1	7 15.09	+27 57.8	2.727	3.642	6.6	21.6
2 11	7 8.71	+28 7.1	2.801	3.640	9.3	21.8
2 21	7 4.23	+28 9.9	2.898	3.639	11.6	21.9

296575 2009 QJ_{58} 1 12.2 108°.61 1°.0/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.22	+17 47.3	2.030	2.876	12.0	21.7
12 23	7 49.53	+18 0.0	1.971	2.890	8.5	21.5
1 2	7 40.98	+18 18.6	1.938	2.903	4.5	21.2
1 12	7 31.45	+18 40.6	1.934	2.917	1.1	21.0
1 22	7 21.96	+19 3.5	1.960	2.930	4.1	21.3
2 1	7 13.56	+19 24.9	2.016	2.942	7.9	21.5
2 11	7 7.07	+19 43.6	2.097	2.955	11.3	21.8
2 21	7 2.99	+19 58.9	2.201	2.967	14.1	22.0

97276 1999 XC_{143} 1 12.2 33°.67 1°.8/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.62	+22 58.4	1.233	2.108	16.1	17.2
12 23	7 50.73	+23 50.4	1.187	2.120	11.2	17.0
1 2	7 41.89	+24 46.9	1.163	2.133	5.8	16.7
1 12	7 31.46	+25 40.3	1.165	2.147	1.8	16.5
1 22	7 21.12	+26 24.4	1.193	2.162	6.2	16.8
2 1	7 12.56	+26 55.5	1.247	2.178	11.2	17.2
2 11	7 7.01	+27 13.5	1.323	2.194	15.6	17.5
2 21	7 5.03	+27 20.0	1.417	2.211	19.2	17.8

430227 2013 VG_{18} 1 12.2 80°.90 0°.3/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.83	+20 16.9	2.201	3.050	11.0	21.2
12 23	7 48.45	+20 26.3	2.144	3.066	7.7	21.0
1 2	7 40.38	+20 39.2	2.114	3.081	4.0	20.8
1 12	7 31.45	+20 53.0	2.113	3.096	0.3	20.6
1 22	7 22.59	+21 5.7	2.142	3.112	3.8	20.9
2 1	7 14.74	+21 15.9	2.201	3.127	7.3	21.1
2 11	7 8.66	+21 22.8	2.286	3.142	10.5	21.3
2 21	7 4.80	+21 26.3	2.394	3.157	13.1	21.6

5252 Vikrymov 1 12.2 181°.59 2°.6/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.23	+12 51.8	1.888	2.724	13.2	18.0
12 23	7 50.47	+13 14.0	1.815	2.725	9.6	17.8
1 2	7 41.60	+13 48.2	1.767	2.726	5.7	17.6
1 12	7 31.48	+14 31.7	1.747	2.726	2.6	17.4
1 22	7 21.22	+15 21.1	1.758	2.725	4.7	17.5
2 1	7 11.98	+16 12.2	1.797	2.724	8.7	17.7
2 11	7 4.74	+17 1.8	1.863	2.722	12.4	18.0
2 21	7 0.12	+17 47.5	1.951	2.719	15.5	18.2

420730 2012 RR_{36} 1 12.2 161°.47 4°.2/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.00	+ 7 9.8	2.424	3.239	11.3	21.4
12 23	7 46.43	+ 7 8.7	2.350	3.240	8.7	21.2
1 2	7 39.36	+ 7 20.2	2.301	3.242	6.0	21.0
1 12	7 31.45	+ 7 43.7	2.281	3.244	4.2	20.9
1 22	7 23.46	+ 8 17.6	2.290	3.245	5.0	21.0
2 1	7 16.21	+ 8 59.3	2.329	3.246	7.5	21.1
2 11	7 10.40	+ 9 45.5	2.394	3.247	10.2	21.3
2 21	7 6.50	+10 33.1	2.483	3.248	12.7	21.5

425809 2011 DK_{13} 1 12.2 4°.89 0°.1/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.99	+21 21.8	1.451	2.319	14.5	21.1
12 23	7 49.33	+21 21.7	1.389	2.319	10.2	20.8
1 2	7 41.12	+21 25.6	1.350	2.320	5.3	20.5
1 12	7 31.47	+21 30.5	1.338	2.321	0.2	20.1
1 22	7 21.81	+21 33.6	1.352	2.324	5.1	20.5
2 1	7 13.57	+21 33.5	1.393	2.327	10.0	20.8
2 11	7 7.88	+21 29.8	1.458	2.331	14.3	21.1
2 21	7 5.33	+21 22.6	1.542	2.336	17.8	21.3

108899 2001 PP_{5} 1 12.2 298°.50 0°.2/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.54	+23 10.3	1.653	2.512	13.6	18.9
12 23	7 51.74	+22 54.8	1.573	2.499	9.6	18.6
1 2	7 42.38	+22 39.6	1.518	2.486	5.0	18.3
1 12	7 31.50	+22 22.1	1.490	2.474	0.2	17.9
1 22	7 20.45	+22 0.9	1.491	2.461	5.0	18.2
2 1	7 10.66	+21 35.8	1.520	2.449	9.8	18.5
2 11	7 3.32	+21 8.1	1.573	2.436	14.0	18.7
2 21	6 59.08	+20 39.2	1.647	2.424	17.6	18.9

394855 2008 TG_{49} 1 12.2 210.°92 2.°3/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 59.24	+15 37.6	1.691	2.536	14.0	21.9
12 23	7 52.11	+15 33.2	1.615	2.531	10.1	21.6
1 2	7 42.54	+15 37.7	1.563	2.526	5.8	21.3
1 12	7 31.50	+15 49.3	1.539	2.520	2.3	21.1
1 22	7 20.29	+16 5.5	1.545	2.513	5.1	21.3
2 1	7 10.26	+16 24.0	1.578	2.506	9.6	21.5
2 11	7 2.53	+16 42.7	1.637	2.498	13.7	21.7
2 21	6 57.77	+17 0.3	1.716	2.489	17.1	22.0

279921 2001 RM_{82} 1 12.2 114.°54 4.°0/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.77	+ 8 8.6	2.506	3.321	11.0	20.5
12 23	7 46.86	+ 7 54.3	2.441	3.332	8.3	20.3
1 2	7 39.53	+ 7 50.9	2.401	3.343	5.7	20.2
1 12	7 31.46	+ 7 58.2	2.391	3.354	4.0	20.1
1 22	7 23.39	+ 8 15.1	2.411	3.365	4.9	20.2
2 1	7 16.10	+ 8 39.4	2.460	3.375	7.2	20.3
2 11	7 10.24	+ 9 8.8	2.535	3.385	9.8	20.5
2 21	7 6.25	+ 9 40.6	2.635	3.395	12.1	20.7

363783 2005 GU_{107} 1 12.2 335.°70 3.°6/13.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.52	+13 18.2	1.368	2.226	15.9	21.4
12 23	7 49.18	+13 12.1	1.297	2.218	11.7	21.1
1 2	7 41.15	+13 20.1	1.249	2.210	7.1	20.8
1 12	7 31.48	+13 40.9	1.225	2.203	3.6	20.6
1 22	7 21.59	+14 11.6	1.228	2.196	6.1	20.7
2 1	7 12.99	+14 48.3	1.256	2.191	10.8	21.0
2 11	7 6.95	+15 26.9	1.307	2.185	15.3	21.2
2 21	7 4.17	+16 4.0	1.378	2.181	19.2	21.5

284118 2005 US_{112} 1 12.2 243.°77 0.°4/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.74	+22 3.7	1.503	2.364	14.6	21.2
12 23	7 52.78	+22 17.2	1.430	2.357	10.3	20.9
1 2	7 42.99	+22 34.4	1.382	2.350	5.4	20.6
1 12	7 31.52	+22 51.2	1.360	2.343	0.4	20.2
1 22	7 19.86	+23 3.6	1.367	2.336	5.4	20.6
2 1	7 9.58	+23 9.8	1.400	2.329	10.4	20.8
2 11	7 1.99	+23 9.7	1.457	2.321	14.9	21.1
2 21	6 57.79	+23 4.3	1.534	2.313	18.6	21.3

241529 Roccutri 1 12.2 258.°36 5.°3/15.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 51.39	+ 1 40.2	2.678	3.465	11.1	21.1
12 23	7 46.02	+ 1 44.5	2.583	3.449	9.0	21.0
1 2	7 39.19	+ 2 4.2	2.513	3.432	6.8	20.8
1 12	7 31.48	+ 2 39.6	2.471	3.415	5.4	20.7
1 22	7 23.58	+ 3 29.1	2.458	3.398	5.8	20.7
2 1	7 16.23	+ 4 30.2	2.475	3.380	7.7	20.8
2 11	7 10.12	+ 5 38.8	2.519	3.362	10.1	20.9
2 21	7 5.76	+ 6 50.9	2.587	3.344	12.4	21.0

425466 2010 EY_{100} 1 12.2 98.°29 9.°8/18.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 51.81	−13 6.6	2.470	3.171	14.2	21.0
12 23	7 46.26	−13 26.1	2.407	3.182	12.6	20.9
1 2	7 39.26	−13 20.8	2.364	3.193	11.1	20.8
1 12	7 31.48	−12 49.1	2.345	3.203	10.0	20.7
1 22	7 23.69	−11 51.8	2.351	3.214	9.9	20.7
2 1	7 16.67	−10 32.3	2.383	3.224	10.6	20.8
2 11	7 11.09	− 8 56.4	2.439	3.235	11.9	20.9
2 21	7 7.39	− 7 10.8	2.519	3.245	13.5	21.0

411900 2012 FK_{46} 1 12.2 1.°24 2.°2/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.98	+25 53.1	1.630	2.493	13.5	21.3
12 23	7 50.67	+26 27.5	1.565	2.493	9.5	21.1
1 2	7 41.82	+27 2.3	1.525	2.493	5.1	20.8
1 12	7 31.53	+27 32.0	1.512	2.493	2.3	20.6
1 22	7 21.14	+27 52.3	1.527	2.493	5.6	20.9
2 1	7 12.09	+28 1.4	1.570	2.493	10.0	21.1
2 11	7 5.53	+27 59.9	1.636	2.494	13.9	21.3
2 21	7 2.06	+27 49.7	1.723	2.495	17.1	21.6

223296 2003 JD_{6} 1 12.2 321.°72 2.°8/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.54	+27 6.8	1.766	2.628	12.7	20.3
12 23	7 50.31	+27 52.6	1.698	2.624	9.0	20.0
1 2	7 41.64	+28 38.1	1.654	2.620	5.0	19.8
1 12	7 31.54	+29 17.6	1.638	2.616	2.8	19.7
1 22	7 21.28	+29 46.4	1.651	2.613	5.7	19.8
2 1	7 12.22	+30 2.4	1.691	2.609	9.7	20.1
2 11	7 5.48	+30 5.9	1.756	2.606	13.4	20.3
2 21	7 1.71	+29 59.3	1.840	2.603	16.5	20.5

88481 2001 QS_{120} 1 12.2 114.°13 0.°9/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.04	+21 40.0	1.498	2.358	14.7	20.0
12 23	7 52.83	+22 25.7	1.443	2.369	10.3	19.7
1 2	7 42.94	+23 16.4	1.411	2.380	5.3	19.5
1 12	7 31.56	+24 6.1	1.407	2.390	0.9	19.2
1 22	7 20.18	+24 49.2	1.432	2.400	5.4	19.5
2 1	7 10.32	+25 22.4	1.483	2.410	10.2	19.8
2 11	7 3.16	+25 45.1	1.559	2.419	14.3	20.1
2 21	6 59.29	+25 58.3	1.655	2.428	17.7	20.3

325564 2009 ST_{111} 1 12.2 147.°28 1.°5/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 56.12	+16 50.2	2.171	3.013	11.5	21.6
12 23	7 49.43	+16 50.9	2.104	3.019	8.2	21.4
1 2	7 40.96	+16 57.6	2.063	3.026	4.5	21.2
1 12	7 31.53	+17 8.5	2.051	3.032	1.5	21.0
1 22	7 22.09	+17 21.7	2.069	3.038	4.0	21.2
2 1	7 13.62	+17 35.5	2.118	3.043	7.6	21.4
2 11	7 6.94	+17 48.6	2.192	3.048	10.9	21.6
2 21	7 2.53	+18 0.1	2.290	3.053	13.7	21.8

149689 2004 GG_{72} 1 12.2 192.°44 0.°3/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.92	+21 19.3	2.641	3.488	9.5	20.5
12 23	7 47.09	+21 47.6	2.566	3.487	6.6	20.4
1 2	7 39.73	+22 18.8	2.518	3.485	3.4	20.1
1 12	7 31.51	+22 50.3	2.501	3.484	0.3	19.9
1 22	7 23.21	+23 19.6	2.514	3.483	3.4	20.1
2 1	7 15.62	+23 44.6	2.558	3.481	6.6	20.3
2 11	7 9.47	+24 4.5	2.629	3.479	9.5	20.5
2 21	7 5.23	+24 19.1	2.724	3.477	12.0	20.7

227582 2005 YY_{277} 1 12.2 313.°54 0.°4/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.66	+21 42.5	1.859	2.715	12.4	21.1
12 23	7 49.49	+22 5.3	1.788	2.713	8.7	20.8
1 2	7 41.14	+22 31.8	1.743	2.711	4.5	20.6
1 12	7 31.54	+22 58.4	1.726	2.709	0.4	20.2
1 22	7 21.83	+23 21.7	1.738	2.707	4.5	20.6
2 1	7 13.21	+23 39.6	1.778	2.705	8.7	20.8
2 11	7 6.69	+23 51.1	1.844	2.703	12.5	21.0
2 21	7 2.84	+23 56.7	1.931	2.701	15.6	21.2

488989 2005 UH_{382} 1 12.2 101.°04 3.°0/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.61	+28 14.8	2.113	2.962	11.4	21.2
12 23	7 51.97	+29 22.3	2.068	2.987	8.0	21.0
1 2	7 42.29	+30 27.0	2.050	3.012	4.7	20.9
1 12	7 31.56	+31 23.2	2.062	3.036	3.1	20.8
1 22	7 20.90	+32 6.7	2.105	3.060	5.4	21.0
2 1	7 11.45	+32 35.7	2.177	3.083	8.6	21.2
2 11	7 4.12	+32 51.1	2.276	3.106	11.5	21.5
2 21	6 59.41	+32 55.4	2.396	3.127	13.9	21.7

15551 Paddock 1 12.2 189.°53 3.°2/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.07	+32 4.6	2.743	3.587	9.3	18.5
12 23	7 49.34	+32 45.0	2.672	3.586	6.7	18.3
1 2	7 40.92	+33 21.2	2.628	3.585	4.3	18.2
1 12	7 31.55	+33 49.2	2.615	3.583	3.3	18.1
1 22	7 22.08	+34 6.4	2.632	3.580	4.9	18.2
2 1	7 13.45	+34 11.8	2.679	3.578	7.5	18.3
2 11	7 6.42	+34 6.3	2.753	3.575	10.0	18.5
2 21	7 1.52	+33 51.9	2.849	3.571	12.2	18.7

82576 2001 OW_{85} 1 12.2 311.°16 4.°4/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.18	+ 8 54.9	1.670	2.506	14.6	19.5
12 23	7 48.58	+ 9 4.4	1.596	2.501	11.0	19.3
1 2	7 40.74	+ 9 31.1	1.544	2.496	7.2	19.1
1 12	7 31.54	+10 13.7	1.519	2.491	4.5	18.9
1 22	7 22.15	+11 8.9	1.522	2.486	5.9	19.0
2 1	7 13.78	+12 11.9	1.553	2.481	9.7	19.2
2 11	7 7.52	+13 17.4	1.608	2.476	13.5	19.4
2 21	7 4.00	+14 21.2	1.685	2.472	16.9	19.6

209511 2004 PR_{85} 1 12.2 121.°16 0.°7/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.57	+21 54.2	1.764	2.615	13.2	20.9
12 23	7 52.83	+22 29.8	1.710	2.633	9.2	20.7
1 2	7 42.81	+23 8.5	1.682	2.649	4.7	20.5
1 12	7 31.59	+23 45.7	1.683	2.666	0.7	20.2
1 22	7 20.44	+24 17.3	1.713	2.681	4.7	20.5
2 1	7 10.67	+24 40.9	1.773	2.696	9.0	20.8
2 11	7 3.28	+24 56.3	1.858	2.710	12.7	21.1
2 21	6 58.79	+25 4.4	1.964	2.724	15.7	21.3

169028 2001 EU_{3} 1 12.2 345.°51 0.°6/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.52	+18 40.2	1.273	2.145	15.9	19.6
12 23	7 49.41	+19 6.9	1.207	2.138	11.3	19.4
1 2	7 41.38	+19 43.9	1.162	2.131	6.0	19.0
1 12	7 31.56	+20 26.7	1.142	2.126	0.6	18.6
1 22	7 21.51	+21 9.8	1.149	2.121	5.6	19.0
2 1	7 12.89	+21 48.6	1.180	2.117	11.1	19.3
2 11	7 7.08	+22 20.3	1.234	2.114	15.9	19.5
2 21	7 4.81	+22 43.9	1.307	2.112	19.9	19.8

90253 2003 BT_{66} 1 12.2 287.°52 4.°5/14.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.13	+ 8 4.5	1.839	2.667	13.8	19.6
12 23	7 48.57	+ 8 18.1	1.744	2.644	10.6	19.4
1 2	7 40.79	+ 8 49.0	1.673	2.622	7.1	19.1
1 12	7 31.56	+ 9 36.5	1.629	2.598	4.6	18.9
1 22	7 21.91	+10 37.8	1.613	2.575	5.9	19.0
2 1	7 13.04	+11 48.2	1.626	2.552	9.5	19.1
2 11	7 6.05	+13 2.6	1.664	2.529	13.3	19.3
2 21	7 1.66	+14 16.0	1.724	2.505	16.8	19.5

49824 1999 XV_{73} 1 12.2 137°.51 1°.4/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 0.68	+22 44.1	1.506	2.365	14.6	18.6
12 23	7 53.36	+23 32.7	1.447	2.373	10.2	18.3
1 2	7 43.27	+24 25.4	1.412	2.380	5.3	18.1
1 12	7 31.60	+25 15.7	1.405	2.387	1.4	17.8
1 22	7 19.88	+25 58.0	1.426	2.394	5.6	18.1
2 1	7 9.67	+26 29.0	1.475	2.400	10.4	18.4
2 11	7 2.20	+26 48.5	1.548	2.405	14.5	18.7
2 21	6 58.09	+26 57.8	1.641	2.411	18.0	18.9

187043 2005 KE_{12} 1 12.2 149°.84 1°.1/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.77	+22 27.3	1.882	2.729	12.7	21.2
12 23	7 53.68	+23 14.6	1.821	2.742	8.9	21.0
1 2	7 43.28	+24 5.0	1.787	2.754	4.6	20.8
1 12	7 31.61	+24 52.9	1.782	2.764	1.1	20.5
1 22	7 19.91	+25 34.0	1.808	2.774	4.8	20.8
2 1	7 9.48	+26 5.5	1.864	2.783	8.9	21.1
2 11	7 1.34	+26 27.1	1.945	2.791	12.5	21.3
2 21	6 56.08	+26 39.9	2.049	2.797	15.5	21.5

473707 2015 YK_{9} 1 12.2 56°.29 0°.1/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.41	+17 3.8	1.550	2.406	14.4	20.4
12 23	7 50.29	+18 21.6	1.490	2.415	10.2	20.1
1 2	7 41.67	+19 51.3	1.456	2.424	5.3	19.9
1 12	7 31.59	+21 25.9	1.450	2.433	0.2	19.5
1 22	7 21.38	+22 57.7	1.472	2.442	5.0	19.9
2 1	7 12.44	+24 20.2	1.523	2.452	9.7	20.2
2 11	7 5.93	+25 29.6	1.598	2.461	13.9	20.5
2 21	7 2.47	+26 25.2	1.695	2.471	17.2	20.7

89353 2001 VN_{75} 1 12.2 261°.40 0°.9/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.62	+18 53.0	1.909	2.759	12.4	19.9
12 23	7 50.18	+18 54.0	1.826	2.747	8.9	19.7
1 2	7 41.54	+19 0.2	1.768	2.734	4.8	19.4
1 12	7 31.59	+19 9.5	1.739	2.721	1.0	19.1
1 22	7 21.43	+19 19.4	1.739	2.708	4.4	19.4
2 1	7 12.24	+19 28.4	1.767	2.695	8.7	19.6
2 11	7 5.08	+19 35.3	1.821	2.682	12.6	19.8
2 21	7 0.56	+19 39.8	1.897	2.668	15.8	20.0

377096 2002 WM_{2} 1 12.2 60°.20 6°.2/ 9.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.01	+37 33.1	2.081	2.927	11.7	20.3
12 23	7 51.23	+38 58.6	2.032	2.939	9.0	20.2
1 2	7 42.09	+40 14.8	2.010	2.950	6.8	20.1
1 12	7 31.60	+41 14.4	2.016	2.962	6.3	20.1
1 22	7 21.03	+41 52.9	2.050	2.973	7.9	20.2
2 1	7 11.70	+42 9.3	2.111	2.985	10.4	20.4
2 11	7 4.69	+42 6.3	2.196	2.997	12.9	20.5
2 21	7 0.59	+41 48.1	2.300	3.009	15.1	20.7

86423 2000 BQ_{19} 1 12.2 197°.76 0°.7/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.59	+23 8.5	1.764	2.615	13.2	20.5
12 23	7 53.75	+23 16.8	1.690	2.612	9.3	20.2
1 2	7 43.42	+23 26.3	1.641	2.609	4.9	20.0
1 12	7 31.63	+23 33.4	1.622	2.605	0.7	19.6
1 22	7 19.75	+23 35.3	1.632	2.600	4.9	20.0
2 1	7 9.14	+23 31.0	1.671	2.595	9.4	20.2
2 11	7 0.97	+23 21.1	1.735	2.589	13.4	20.4
2 21	6 55.84	+23 7.0	1.821	2.582	16.7	20.7

413500 2005 QS_{38} 1 12.2 158°.53 1°.3/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.30	+17 2.6	1.992	2.837	12.2	21.7
12 23	7 49.74	+17 13.6	1.923	2.841	8.7	21.5
1 2	7 41.22	+17 31.5	1.880	2.844	4.8	21.2
1 12	7 31.59	+17 54.0	1.865	2.847	1.4	21.0
1 22	7 21.91	+18 18.3	1.881	2.850	4.2	21.2
2 1	7 13.24	+18 42.1	1.925	2.853	8.1	21.5
2 11	7 6.51	+19 3.7	1.996	2.855	11.7	21.7
2 21	7 2.24	+19 22.2	2.089	2.857	14.6	21.9

252782 2002 EO_{130} 1 12.2 296°.45 0°.8/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.20	+20 37.6	1.839	2.693	12.7	19.9
12 23	7 50.59	+20 17.4	1.759	2.682	9.0	19.7
1 2	7 41.75	+19 59.6	1.705	2.672	4.8	19.4
1 12	7 31.60	+19 42.6	1.678	2.661	0.8	19.1
1 22	7 21.33	+19 25.3	1.681	2.651	4.5	19.3
2 1	7 12.16	+19 7.4	1.712	2.641	8.9	19.6
2 11	7 5.13	+18 49.2	1.769	2.631	12.8	19.8
2 21	7 0.83	+18 30.9	1.847	2.621	16.1	20.0

95054 2002 AF_{48} 1 12.2 243°.73 1°.4/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.56	+17 25.2	1.980	2.827	12.2	20.0
12 23	7 49.30	+17 27.2	1.903	2.822	8.7	19.7
1 2	7 41.03	+17 35.6	1.853	2.817	4.8	19.5
1 12	7 31.59	+17 48.4	1.830	2.812	1.4	19.2
1 22	7 22.04	+18 3.4	1.838	2.807	4.3	19.4
2 1	7 13.45	+18 18.6	1.874	2.802	8.3	19.7
2 11	7 6.77	+18 32.5	1.935	2.796	11.9	19.9
2 21	7 2.58	+18 44.4	2.019	2.791	15.0	20.1

128721 2004 RU_{136} 1 12.2 241°.69 0°.2/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 56.33	+21 57.1	1.941	2.795	12.1	20.3
12 23	7 49.87	+22 5.0	1.870	2.794	8.5	20.1
1 2	7 41.32	+22 15.4	1.825	2.793	4.4	19.8
1 12	7 31.60	+22 25.5	1.809	2.792	0.2	19.5
1 22	7 21.83	+22 32.8	1.822	2.791	4.3	19.8
2 1	7 13.14	+22 35.9	1.863	2.790	8.4	20.1
2 11	7 6.49	+22 34.7	1.931	2.789	12.0	20.3
2 21	7 2.42	+22 29.6	2.020	2.788	15.1	20.5

293419 2007 EM_{110} 1 12.2 319°.06 1°.8/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.03	+15 40.9	1.729	2.582	13.4	20.9
12 23	7 48.50	+16 0.4	1.653	2.573	9.6	20.7
1 2	7 40.72	+16 30.3	1.601	2.565	5.4	20.4
1 12	7 31.59	+17 7.9	1.576	2.557	1.8	20.1
1 22	7 22.25	+17 49.6	1.580	2.550	4.7	20.3
2 1	7 13.93	+18 31.5	1.611	2.542	9.1	20.6
2 11	7 7.69	+19 10.8	1.667	2.535	13.1	20.8
2 21	7 4.20	+19 45.4	1.744	2.529	16.5	21.0

315740 2008 FK_{2} 1 12.2 76°.66 6°.5/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.58	+38 41.8	1.698	2.542	14.0	19.9
12 23	7 56.51	+39 12.5	1.658	2.564	10.7	19.7
1 2	7 44.71	+39 28.6	1.641	2.585	7.7	19.6
1 12	7 31.67	+39 23.7	1.652	2.607	6.5	19.6
1 22	7 19.08	+38 56.1	1.691	2.628	8.2	19.7
2 1	7 8.50	+38 8.4	1.757	2.649	11.1	19.9
2 11	7 0.98	+37 6.6	1.847	2.670	14.1	20.2
2 21	6 56.93	+35 56.9	1.957	2.691	16.6	20.4

447066 2004 RY_{307} 1 12.2 94°.95 2°.0/11.7 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.45	+26 0.7	1.607	2.462	14.1	21.6
12 23	7 54.88	+26 21.8	1.563	2.487	9.8	21.4
1 2	7 43.86	+26 41.0	1.545	2.512	5.2	21.2
1 12	7 31.66	+26 53.4	1.555	2.536	2.0	21.0
1 22	7 19.79	+26 56.2	1.595	2.560	5.4	21.3
2 1	7 9.65	+26 49.1	1.662	2.583	9.7	21.6
2 11	7 2.25	+26 34.0	1.754	2.606	13.4	21.9
2 21	6 58.04	+26 13.5	1.867	2.628	16.4	22.1

110281 2001 SW_{254} 1 12.2 104°.42 6°.4/ 9.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.45	+38 8.9	2.004	2.845	12.3	19.7
12 23	7 54.31	+39 25.3	1.961	2.864	9.4	19.6
1 2	7 43.66	+40 30.4	1.944	2.883	7.1	19.5
1 12	7 31.67	+41 16.8	1.956	2.902	6.5	19.5
1 22	7 19.75	+41 40.8	1.996	2.920	8.1	19.6
2 1	7 9.32	+41 42.1	2.063	2.938	10.6	19.8
2 11	7 1.48	+41 24.6	2.154	2.955	13.1	20.0
2 21	6 56.76	+40 53.5	2.265	2.972	15.3	20.2

454573 2014 PO_{13} 1 12.2 276°.25 1°.1/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.90	+18 20.4	1.559	2.415	14.4	21.4
12 23	7 51.54	+18 26.7	1.475	2.399	10.3	21.1
1 2	7 42.46	+18 40.6	1.415	2.382	5.6	20.8
1 12	7 31.66	+18 59.3	1.383	2.365	1.2	20.4
1 22	7 20.49	+19 19.5	1.378	2.348	5.2	20.7
2 1	7 10.47	+19 38.5	1.400	2.331	10.2	20.9
2 11	7 2.89	+19 54.5	1.447	2.314	14.8	21.1
2 21	6 58.55	+20 6.9	1.513	2.297	18.6	21.4

151980 2004 HR_{9} 1 12.2 280°.90 3°.5/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.63	+27 43.8	1.398	2.265	15.1	20.2
12 23	7 53.95	+28 28.7	1.318	2.246	10.9	19.9
1 2	7 43.92	+29 13.5	1.260	2.227	6.2	19.6
1 12	7 31.69	+29 50.6	1.229	2.207	3.6	19.4
1 22	7 18.94	+30 13.4	1.225	2.188	7.1	19.6
2 1	7 7.61	+30 19.1	1.247	2.169	12.2	19.8
2 11	6 59.32	+30 9.2	1.292	2.149	16.8	20.0
2 21	6 54.97	+29 47.5	1.354	2.130	20.8	20.2

166137 2002 CW_{298} 1 12.2 213°.79 1°.2/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.19	+17 32.9	1.906	2.751	12.7	20.8
12 23	7 51.27	+17 45.3	1.826	2.744	9.1	20.6
1 2	7 42.12	+18 4.7	1.773	2.737	4.9	20.3
1 12	7 31.66	+18 28.5	1.747	2.730	1.2	20.1
1 22	7 21.00	+18 53.6	1.752	2.722	4.5	20.3
2 1	7 11.35	+19 17.6	1.786	2.713	8.7	20.5
2 11	7 3.76	+19 38.8	1.846	2.703	12.5	20.7
2 21	6 58.85	+19 56.4	1.928	2.694	15.8	20.9

314669 2006 QW_{63} 1 12.2 120°.20 7°.1/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.67	+41 5.2	1.964	2.796	12.9	21.4
12 23	7 56.57	+41 55.5	1.917	2.812	10.1	21.2
1 2	7 44.82	+42 31.3	1.895	2.826	7.8	21.1
1 12	7 31.71	+42 45.5	1.901	2.841	7.1	21.1
1 22	7 18.83	+42 35.5	1.935	2.855	8.5	21.2
2 1	7 7.70	+42 2.8	1.996	2.868	11.0	21.4
2 11	6 59.43	+41 12.6	2.081	2.881	13.5	21.6
2 21	6 54.51	+40 11.3	2.186	2.894	15.8	21.8

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
293216 2007 BY_{27}			1 12.2 64°.06		0°.1/12.2 18	
	h m	° ′			°	m
12 13	7 56.86	+19 23.6	1.631	2.489	13.8	20.5
12 23	7 50.36	+20 3.1	1.582	2.507	9.6	20.3
1 2	7 41.60	+20 49.1	1.558	2.526	5.0	20.1
1 12	7 31.65	+21 36.8	1.562	2.545	0.1	19.7
1 22	7 21.80	+22 21.5	1.594	2.564	4.7	20.2
2 1	7 13.31	+22 59.7	1.654	2.583	9.1	20.5
2 11	7 7.17	+23 30.0	1.739	2.602	12.9	20.7
2 21	7 3.88	+23 52.4	1.845	2.621	16.0	21.0
180057 2003 BU_{45}			1 12.2 207°.90		0°.9/12.5 18	
12 13	7 56.08	+18 5.9	2.046	2.892	11.9	20.9
12 23	7 49.65	+18 22.6	1.970	2.889	8.4	20.7
1 2	7 41.23	+18 45.6	1.920	2.885	4.5	20.4
1 12	7 31.65	+19 12.2	1.899	2.881	0.9	20.1
1 22	7 21.94	+19 39.4	1.907	2.877	4.1	20.4
2 1	7 13.17	+20 4.8	1.945	2.872	8.1	20.6
2 11	7 6.27	+20 27.0	2.010	2.867	11.7	20.8
2 21	7 1.83	+20 45.1	2.096	2.862	14.7	21.0
161073 2002 LH_{35}			1 12.2 145°.44		4°.7/14.5 18	
12 13	7 53.55	+ 2 51.3	3.185	3.966	9.7	21.7
12 23	7 47.20	+ 2 22.6	3.118	3.979	7.7	21.6
1 2	7 39.71	+ 2 5.0	3.077	3.992	5.9	21.5
1 12	7 31.62	+ 1 59.0	3.066	4.005	4.8	21.5
1 22	7 23.55	+ 2 4.2	3.085	4.016	5.2	21.5
2 1	7 16.10	+ 2 19.3	3.135	4.027	6.7	21.6
2 11	7 9.80	+ 2 42.1	3.212	4.038	8.6	21.8
2 21	7 5.01	+ 3 10.1	3.313	4.047	10.4	21.9
378901 2008 UX_{45}			1 12.2 149°.19		0°.9/12.6 18	
12 13	7 54.63	+17 52.2	2.407	3.249	10.5	21.9
12 23	7 48.33	+18 5.0	2.338	3.255	7.4	21.7
1 2	7 40.43	+18 23.0	2.296	3.261	4.0	21.5
1 12	7 31.64	+18 43.8	2.284	3.267	0.9	21.3
1 22	7 22.83	+19 5.5	2.303	3.272	3.6	21.5
2 1	7 14.85	+19 26.1	2.351	3.277	7.0	21.8
2 11	7 8.47	+19 44.3	2.427	3.282	10.0	22.0
2 21	7 4.14	+19 59.6	2.526	3.286	12.6	22.1
209985 2006 HB_{71}			1 12.2 213°.16		1°.5/12.8 18	
12 13	7 57.43	+16 17.8	1.806	2.652	13.2	21.2
12 23	7 50.82	+16 37.9	1.730	2.648	9.5	20.9
1 2	7 41.93	+17 7.1	1.679	2.643	5.2	20.7
1 12	7 31.68	+17 42.5	1.656	2.637	1.5	20.4
1 22	7 21.23	+18 20.5	1.662	2.631	4.6	20.6
2 1	7 11.82	+18 57.8	1.697	2.625	9.0	20.8
2 11	7 4.54	+19 31.8	1.757	2.618	12.9	21.1
2 21	7 0.02	+20 1.3	1.839	2.611	16.2	21.3
173511 2000 UE_{63}			1 12.2 19°.15		6°.2/13.4 18	
12 13	7 55.19	+11 26.1	1.055	1.922	18.8	18.8
12 23	7 49.87	+10 26.3	1.009	1.930	14.2	18.6
1 2	7 41.55	+ 9 43.9	0.982	1.940	9.3	18.3
1 12	7 31.66	+ 9 21.1	0.979	1.951	6.2	18.2
1 22	7 21.92	+ 9 17.3	0.999	1.963	8.1	18.3
2 1	7 13.99	+ 9 29.6	1.042	1.976	12.5	18.6
2 11	7 9.13	+ 9 52.8	1.106	1.991	16.9	18.9
2 21	7 7.84	+10 21.6	1.188	2.007	20.7	19.2
31439 Mieyamanaka			1 12.2 278°.88		1°.0/12.4 18	
12 13	7 59.31	+19 45.4	1.504	2.362	14.7	18.3
12 23	7 52.62	+19 36.0	1.419	2.344	10.6	18.0
1 2	7 43.07	+19 31.5	1.359	2.326	5.7	17.7
1 12	7 31.71	+19 29.5	1.325	2.308	1.0	17.3
1 22	7 19.97	+19 27.5	1.319	2.290	5.4	17.5
2 1	7 9.48	+19 24.2	1.340	2.271	10.6	17.8
2 11	7 1.59	+19 19.3	1.385	2.253	15.3	18.0
2 21	6 57.08	+19 12.7	1.450	2.234	19.2	18.2
415183 2012 GR_{4}			1 12.2 312°.04		3°.0/11.3 18	
12 13	7 56.81	+27 12.5	1.548	2.415	13.9	20.6
12 23	7 50.95	+27 50.0	1.467	2.396	9.9	20.3
1 2	7 42.23	+28 27.6	1.411	2.378	5.6	20.0
1 12	7 31.69	+28 59.0	1.381	2.359	3.0	19.8
1 22	7 20.77	+29 19.2	1.378	2.342	6.3	19.9
2 1	7 11.10	+29 25.6	1.401	2.324	10.9	20.1
2 11	7 4.04	+29 19.0	1.448	2.307	15.2	20.4
2 21	7 0.39	+29 2.1	1.514	2.291	18.9	20.6
59765 1999 NN_{4}			1 12.2 152°.73		0°.4/11.9 18	
12 13	7 55.88	+20 58.1	2.382	3.227	10.5	19.9
12 23	7 49.28	+21 40.1	2.315	3.235	7.3	19.7
1 2	7 40.96	+22 25.8	2.275	3.242	3.8	19.5
1 12	7 31.67	+23 11.6	2.266	3.249	0.4	19.2
1 22	7 22.30	+23 53.9	2.287	3.255	3.8	19.5
2 1	7 13.80	+24 30.4	2.339	3.261	7.2	19.7
2 11	7 6.96	+24 59.9	2.419	3.266	10.3	19.9
2 21	7 2.30	+25 22.4	2.521	3.271	12.9	20.1

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
305643 2009 BP_{42}			1 12.2 339°.48		1°.3/11.9 18	
	h m	° ′			°	m
12 13	7 56.68	+23 41.3	1.250	2.125	15.9	20.3
12 23	7 51.08	+23 58.9	1.183	2.116	11.3	20.0
1 2	7 42.34	+24 19.6	1.138	2.108	5.9	19.7
1 12	7 31.70	+24 38.0	1.118	2.101	1.3	19.3
1 22	7 20.84	+24 49.6	1.124	2.094	6.1	19.6
2 1	7 11.58	+24 52.2	1.155	2.088	11.6	19.9
2 11	7 5.35	+24 46.2	1.207	2.084	16.4	20.2
2 21	7 2.86	+24 33.2	1.278	2.080	20.4	20.4
350733 2001 XK_{228}			1 12.2 74°.47		0°.7/12.0 17	
12 13	8 2.12	+22 28.6	1.365	2.227	15.7	21.0
12 23	7 54.21	+22 48.9	1.325	2.252	10.9	20.8
1 2	7 43.61	+23 11.9	1.309	2.277	5.6	20.5
1 12	7 31.72	+23 32.5	1.319	2.302	0.7	20.2
1 22	7 20.18	+23 46.9	1.357	2.327	5.4	20.6
2 1	7 10.51	+23 53.8	1.422	2.351	10.3	21.0
2 11	7 3.80	+23 53.7	1.511	2.375	14.4	21.3
2 21	7 0.49	+23 48.1	1.620	2.399	17.8	21.6
369581 2011 BD_{98}			1 12.2 322°.86		2°.4/11.4 18	
12 13	7 56.96	+27 3.2	1.825	2.685	12.5	21.1
12 23	7 50.54	+27 34.6	1.756	2.682	8.8	20.9
1 2	7 41.79	+28 4.9	1.713	2.679	4.9	20.6
1 12	7 31.69	+28 29.3	1.698	2.677	2.5	20.5
1 22	7 21.49	+28 44.2	1.711	2.674	5.4	20.6
2 1	7 12.49	+28 47.9	1.752	2.672	9.3	20.9
2 11	7 5.75	+28 41.5	1.818	2.670	13.0	21.1
2 21	7 1.87	+28 26.9	1.904	2.668	16.0	21.3
128288 2003 UZ_{209}			1 12.2 179°.01		1°.6/11.5 18	
12 13	7 55.85	+26 7.7	2.572	3.419	9.7	20.7
12 23	7 49.21	+26 34.3	2.500	3.420	6.8	20.5
1 2	7 40.91	+27 0.2	2.455	3.421	3.7	20.3
1 12	7 31.68	+27 22.2	2.441	3.421	1.6	20.1
1 22	7 22.38	+27 37.9	2.458	3.421	4.0	20.3
2 1	7 13.93	+27 46.0	2.505	3.421	7.1	20.5
2 11	7 7.09	+27 46.7	2.579	3.420	10.0	20.7
2 21	7 2.35	+27 41.2	2.676	3.419	12.4	20.8
523050 2016 QQ_{85}			1 12.2 108°.43		4°.0/14.3 18	
12 13	8 1.83	+ 5 25.8	1.103	1.941	20.3	20.7
12 23	7 54.86	+ 7 24.6	1.041	1.949	15.2	20.4
1 2	7 44.41	+10 1.3	1.001	1.957	9.4	20.1
1 12	7 31.75	+13 6.3	0.987	1.965	4.3	19.8
1 22	7 18.74	+16 22.6	1.002	1.973	6.7	20.0
2 1	7 7.40	+19 31.5	1.045	1.980	12.4	20.3
2 11	6 59.40	+22 19.6	1.112	1.987	17.7	20.6
2 21	6 55.55	+24 40.9	1.200	1.994	22.0	21.0
161137 2002 RN_{136}			1 12.2 134°.76		2°.0/13.2 18	
12 13	7 53.36	+13 19.6	2.381	3.214	10.9	20.1
12 23	7 47.47	+13 44.9	2.311	3.221	7.9	19.9
1 2	7 40.01	+14 19.4	2.269	3.227	4.6	19.7
1 12	7 31.66	+15 0.9	2.255	3.234	2.1	19.6
1 22	7 23.25	+15 46.4	2.272	3.240	3.8	19.7
2 1	7 15.63	+16 33.0	2.319	3.246	7.0	19.9
2 11	7 9.54	+17 18.1	2.394	3.251	10.1	20.1
2 21	7 5.46	+17 59.8	2.492	3.256	12.6	20.3
155651 2000 GO_{98}			1 12.2 245°.53		3°.4/13.1 18	
12 13	7 58.60	+13 14.8	1.680	2.520	14.3	20.3
12 23	7 51.83	+13 1.8	1.595	2.507	10.6	20.1
1 2	7 42.55	+12 59.6	1.535	2.493	6.5	19.8
1 12	7 31.72	+13 7.7	1.502	2.478	3.4	19.6
1 22	7 20.56	+13 24.0	1.497	2.463	5.6	19.7
2 1	7 10.47	+13 46.2	1.521	2.447	9.9	19.9
2 11	7 2.62	+14 11.5	1.569	2.431	14.1	20.1
2 21	6 57.73	+14 37.5	1.638	2.415	17.7	20.3
206326 2003 OT_{3}			1 12.2 143°.41		1°.6/12.8 18	
12 13	7 58.38	+15 41.6	1.997	2.836	12.4	21.6
12 23	7 51.16	+16 0.9	1.934	2.848	8.9	21.4
1 2	7 41.97	+16 28.4	1.897	2.859	4.9	21.2
1 12	7 31.70	+17 1.3	1.889	2.870	1.6	21.0
1 22	7 21.44	+17 36.4	1.911	2.880	4.2	21.2
2 1	7 12.25	+18 10.9	1.964	2.889	8.1	21.4
2 11	7 5.04	+18 42.7	2.042	2.898	11.6	21.7
2 21	7 0.33	+19 10.5	2.143	2.906	14.5	21.9
6855 Armellini			1 12.2 225°.02		3°.4/11.4 18	
12 13	8 2.45	+29 22.7	1.551	2.410	14.3	17.5
12 23	7 54.75	+29 43.9	1.482	2.406	10.3	17.2
1 2	7 44.10	+30 0.5	1.438	2.402	5.9	17.0
1 12	7 31.75	+30 6.5	1.420	2.397	3.4	16.8
1 22	7 19.32	+29 58.4	1.431	2.393	6.4	17.0
2 1	7 8.47	+29 36.0	1.469	2.388	10.9	17.2
2 11	7 0.50	+29 2.4	1.530	2.382	15.0	17.4
2 21	6 56.07	+28 21.6	1.612	2.377	18.4	17.7

312702 2010 OD_{87} 1 12.2 91°.52 2°.7/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 3.94	+29 46.8	1.945	2.791	12.4	20.3
12 23	7 54.90	+29 55.8	1.903	2.821	8.8	20.1
1 2	7 43.78	+29 58.9	1.888	2.851	5.0	20.0
1 12	7 31.75	+29 52.6	1.903	2.879	2.7	19.9
1 22	7 20.12	+29 35.3	1.947	2.908	5.2	20.1
2 1	7 10.07	+29 8.1	2.022	2.935	8.7	20.4
2 11	7 2.47	+28 33.6	2.122	2.962	11.9	20.6
2 21	6 57.71	+27 55.0	2.245	2.989	14.5	20.8

87764 2000 SW_{90} 1 12.2 116°.13 6°.9/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.89	− 0 33.5	2.541	3.316	12.0	19.4
12 23	7 47.03	− 1 27.9	2.471	3.321	9.9	19.2
1 2	7 39.75	− 2 7.1	2.426	3.325	8.0	19.1
1 12	7 31.68	− 2 29.2	2.408	3.329	7.0	19.0
1 22	7 23.57	− 2 33.9	2.418	3.333	7.3	19.1
2 1	7 16.18	− 2 22.4	2.456	3.337	8.8	19.2
2 11	7 10.17	− 1 57.8	2.520	3.341	10.8	19.3
2 21	7 5.99	− 1 23.8	2.605	3.345	12.8	19.5

424366 2007 VE_{229} 1 12.2 111°.74 2°.2/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.41	+28 5.8	2.529	3.378	9.8	21.6
12 23	7 48.89	+28 40.3	2.471	3.391	6.9	21.4
1 2	7 40.73	+29 12.7	2.440	3.404	3.9	21.3
1 12	7 31.70	+29 39.3	2.440	3.416	2.3	21.2
1 22	7 22.69	+29 57.8	2.469	3.428	4.3	21.3
2 1	7 14.60	+30 6.9	2.529	3.440	7.3	21.5
2 11	7 8.18	+30 7.3	2.615	3.452	10.0	21.7
2 21	7 3.88	+30 0.2	2.724	3.463	12.3	21.9

241113 Zhongda 1 12.2 204°.83 1°.1/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.71	+21 51.1	1.690	2.546	13.5	20.7
12 23	7 51.94	+22 42.7	1.619	2.544	9.5	20.5
1 2	7 42.61	+23 39.9	1.573	2.541	4.9	20.2
1 12	7 31.75	+24 36.9	1.555	2.538	1.1	19.9
1 22	7 20.65	+25 28.0	1.566	2.534	5.2	20.2
2 1	7 10.74	+26 9.4	1.606	2.530	9.7	20.5
2 11	7 3.20	+26 39.9	1.670	2.526	13.8	20.7
2 21	6 58.74	+27 0.1	1.755	2.521	17.1	20.9

464362 2016 AM_{143} 1 12.2 198°.18 5°.0/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.14	+ 4 56.5	2.499	3.297	11.5	22.0
12 23	7 48.68	+ 4 36.2	2.417	3.294	9.1	21.8
1 2	7 40.65	+ 4 28.6	2.360	3.289	6.6	21.6
1 12	7 31.71	+ 4 34.5	2.332	3.284	5.1	21.5
1 22	7 22.65	+ 4 52.9	2.334	3.278	5.7	21.6
2 1	7 14.29	+ 5 21.9	2.365	3.271	8.0	21.7
2 11	7 7.39	+ 5 58.6	2.424	3.264	10.6	21.9
2 21	7 2.43	+ 6 39.7	2.506	3.256	12.9	22.0

32505 2001 KF_{17} 1 12.2 173°.47 5°.2/13.6 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.12	+ 7 50.3	2.039	2.856	13.1	17.8
12 23	7 50.26	+ 7 8.2	1.967	2.858	10.1	17.6
1 2	7 41.52	+ 6 38.3	1.920	2.859	7.1	17.4
1 12	7 31.73	+ 6 21.8	1.901	2.861	5.3	17.3
1 22	7 21.87	+ 6 18.6	1.911	2.862	6.3	17.4
2 1	7 12.99	+ 6 27.1	1.950	2.862	9.1	17.5
2 11	7 5.94	+ 6 44.6	2.015	2.862	12.1	17.7
2 21	7 1.26	+ 7 8.0	2.102	2.862	14.8	17.9

395823 2012 XS_{56} 1 12.2 312°.39 0°.3/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.11	+20 30.4	1.303	2.171	15.9	20.8
12 23	7 52.00	+21 2.2	1.235	2.165	11.2	20.5
1 2	7 42.82	+21 42.1	1.190	2.160	5.9	20.2
1 12	7 31.75	+22 24.3	1.171	2.154	0.3	19.8
1 22	7 20.43	+23 3.3	1.178	2.149	5.8	20.2
2 1	7 10.62	+23 34.8	1.212	2.144	11.3	20.5
2 11	7 3.72	+23 57.3	1.267	2.140	16.1	20.7
2 21	7 0.50	+24 11.1	1.342	2.136	20.1	21.0

426186 2012 JS_{38} 1 12.2 200°.43 5°.0/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.16	+ 6 50.4	2.091	2.908	12.8	21.3
12 23	7 48.21	+ 6 33.3	2.016	2.906	9.9	21.1
1 2	7 40.47	+ 6 30.2	1.965	2.905	7.0	20.9
1 12	7 31.70	+ 6 41.5	1.943	2.903	5.1	20.8
1 22	7 22.83	+ 7 5.6	1.949	2.901	5.9	20.8
2 1	7 14.82	+ 7 40.2	1.983	2.899	8.7	21.0
2 11	7 8.50	+ 8 21.6	2.043	2.897	11.7	21.2
2 21	7 4.42	+ 9 6.2	2.126	2.895	14.4	21.4

149845 2005 PE_{20} 1 12.2 137°.83 2°.4/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.17	+25 52.2	2.047	2.900	11.6	20.5
12 23	7 51.19	+26 56.5	1.986	2.909	8.2	20.3
1 2	7 42.07	+28 1.4	1.952	2.918	4.5	20.1
1 12	7 31.74	+29 1.0	1.948	2.926	2.4	19.9
1 22	7 21.32	+29 50.7	1.974	2.934	5.1	20.1
2 1	7 11.98	+30 27.6	2.029	2.942	8.7	20.4
2 11	7 4.69	+30 51.8	2.110	2.949	11.9	20.6
2 21	7 0.05	+31 4.7	2.213	2.956	14.6	20.8

72983 2002 CG_{248} 1 12.2 208°.42 7°.3/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 55.48	+ 1 48.0	1.715	2.520	15.6	19.8
12 23	7 49.46	+ 1 37.2	1.641	2.518	12.6	19.6
1 2	7 41.24	+ 1 48.8	1.590	2.516	9.5	19.4
1 12	7 31.73	+ 2 23.6	1.565	2.514	7.5	19.3
1 22	7 22.03	+ 3 19.6	1.567	2.511	8.0	19.3
2 1	7 13.35	+ 4 31.9	1.596	2.508	10.6	19.5
2 11	7 6.72	+ 5 54.0	1.649	2.505	13.9	19.7
2 21	7 2.78	+ 7 19.2	1.724	2.502	16.9	19.9

57852 2001 XM_{97} 1 12.2 210°.93 2°.3/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.18	+25 28.8	1.862	2.715	12.6	19.5
12 23	7 52.90	+26 22.3	1.786	2.709	8.9	19.2
1 2	7 43.11	+27 17.6	1.736	2.702	4.9	19.0
1 12	7 31.78	+28 8.4	1.715	2.695	2.3	18.8
1 22	7 20.18	+28 49.6	1.724	2.687	5.5	19.0
2 1	7 9.69	+29 18.4	1.762	2.678	9.6	19.2
2 11	7 1.48	+29 34.5	1.825	2.668	13.3	19.4
2 21	6 56.27	+29 39.9	1.909	2.658	16.5	19.6

386925 2011 KV_{31} 1 12.2 147°.65 2°.7/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.31	+28 37.9	2.539	3.388	9.7	20.6
12 23	7 48.94	+29 34.9	2.474	3.393	6.9	20.4
1 2	7 40.83	+30 30.3	2.436	3.398	4.1	20.3
1 12	7 31.73	+31 19.6	2.429	3.403	2.7	20.2
1 22	7 22.53	+31 59.2	2.453	3.408	4.7	20.3
2 1	7 14.16	+32 27.4	2.506	3.412	7.6	20.5
2 11	7 7.44	+32 44.1	2.586	3.416	10.3	20.7
2 21	7 2.88	+32 50.8	2.689	3.420	12.6	20.9

226934 2004 TC_{292} 1 12.2 134°.12 1°.9/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.03	+26 8.6	2.125	2.978	11.2	21.5
12 23	7 50.28	+26 41.4	2.062	2.984	7.9	21.3
1 2	7 41.56	+27 13.6	2.025	2.991	4.3	21.1
1 12	7 31.75	+27 41.1	2.017	2.997	1.9	20.9
1 22	7 21.91	+28 0.7	2.039	3.003	4.6	21.1
2 1	7 13.15	+28 11.1	2.091	3.009	8.2	21.4
2 11	7 6.34	+28 12.5	2.168	3.014	11.4	21.6
2 21	7 2.03	+28 6.5	2.268	3.019	14.1	21.8

327942 2007 EX_{18} 1 12.2 217°.00 3°.8/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.31	+ 9 41.6	1.992	2.821	12.9	20.7
12 23	7 48.43	+ 9 47.5	1.916	2.819	9.7	20.5
1 2	7 40.64	+10 6.8	1.865	2.816	6.3	20.3
1 12	7 31.73	+10 38.6	1.843	2.814	3.9	20.1
1 22	7 22.68	+11 20.1	1.849	2.811	5.2	20.2
2 1	7 14.53	+12 8.0	1.884	2.808	8.5	20.4
2 11	7 8.17	+12 58.5	1.944	2.805	11.8	20.6
2 21	7 4.17	+13 48.4	2.028	2.802	14.8	20.8

293793 2007 RA_{140} 1 12.2 69°.37 1°.4/12.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.11	+17 26.4	1.435	2.292	15.3	20.7
12 23	7 52.07	+17 39.4	1.390	2.313	10.8	20.5
1 2	7 42.54	+18 1.0	1.368	2.334	5.8	20.3
1 12	7 31.77	+18 27.6	1.373	2.355	1.4	20.0
1 22	7 21.20	+18 55.3	1.406	2.376	5.1	20.3
2 1	7 12.24	+19 21.1	1.465	2.397	9.8	20.7
2 11	7 5.92	+19 43.2	1.549	2.418	13.9	21.0
2 21	7 2.73	+20 0.7	1.653	2.439	17.2	21.2

1369 Ostanina 1 12.2 156°.61 4°.6/14.8 18 A

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 51.81	+ 3 15.7	2.932	3.721	10.2	16.5
12 23	7 46.16	+ 3 10.5	2.859	3.728	8.1	16.4
1 2	7 39.27	+ 3 17.7	2.812	3.734	6.0	16.3
1 12	7 31.72	+ 3 37.5	2.793	3.740	4.7	16.2
1 22	7 24.12	+ 4 8.5	2.805	3.746	5.1	16.2
2 1	7 17.14	+ 4 48.5	2.846	3.751	6.9	16.4
2 11	7 11.34	+ 5 34.8	2.915	3.755	9.0	16.5
2 21	7 7.14	+ 6 24.1	3.009	3.759	11.0	16.7

451081 2009 BO_{85} 1 12.2 54°.38 1°.1/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.17	+18 5.4	1.328	2.192	15.9	21.1
12 23	7 51.65	+18 20.3	1.279	2.206	11.3	20.8
1 2	7 42.42	+18 44.0	1.252	2.220	6.0	20.6
1 12	7 31.78	+19 12.5	1.252	2.235	1.1	20.3
1 22	7 21.26	+19 41.6	1.279	2.250	5.3	20.6
2 1	7 12.39	+20 8.0	1.331	2.265	10.4	21.0
2 11	7 6.31	+20 29.7	1.407	2.281	14.7	21.3
2 21	7 3.55	+20 46.1	1.503	2.297	18.3	21.5

265819 2005 XK_{68} 1 12.2 84°.44 0°.2/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.38	+20 50.0	1.867	2.720	12.5	21.5
12 23	7 50.55	+20 56.9	1.811	2.734	8.8	21.3
1 2	7 41.69	+21 7.2	1.780	2.748	4.6	21.0
1 12	7 31.77	+21 18.0	1.778	2.762	0.2	20.7
1 22	7 21.94	+21 27.1	1.806	2.775	4.3	21.1
2 1	7 13.34	+21 32.9	1.862	2.789	8.4	21.4
2 11	7 6.87	+21 35.1	1.943	2.803	11.9	21.6
2 21	7 3.00	+21 33.9	2.047	2.816	14.9	21.8

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
58992 1998 SH_8			1 12.2	99°.07	0°.2/12.2	18
	h m	° ′			°	m
12 13	8 2.60	+20 52.5	1.540	2.393	14.7	19.6
12 23	7 54.40	+21 15.5	1.494	2.418	10.3	19.3
1 2	7 43.72	+21 42.6	1.474	2.442	5.3	19.1
1 12	7 31.81	+22 9.2	1.482	2.465	0.2	18.8
1 22	7 20.16	+22 31.5	1.519	2.488	5.0	19.2
2 1	7 10.17	+22 47.5	1.583	2.510	9.6	19.5
2 11	7 2.88	+22 57.1	1.673	2.532	13.6	19.8
2 21	6 58.77	+23 1.0	1.783	2.552	16.7	20.1
506054 2015 KS_{130}			1 12.2	171°.97	1°.9/13.6	17
12 13	7 48.46	+11 38.3	3.953	4.772	7.2	21.9
12 23	7 43.63	+11 45.2	3.875	4.774	5.3	21.8
1 2	7 37.91	+11 58.0	3.825	4.776	3.3	21.6
1 12	7 31.69	+12 15.8	3.806	4.778	2.0	21.5
1 22	7 25.44	+12 37.7	3.818	4.780	2.8	21.6
2 1	7 19.61	+13 2.3	3.861	4.781	4.7	21.7
2 11	7 14.64	+13 28.3	3.933	4.782	6.6	21.9
2 21	7 10.84	+13 54.3	4.030	4.783	8.4	22.0
19652 Saris			1 12.2	171°.44	2°.0/12.9	18
12 13	7 55.25	+15 15.0	2.090	2.930	11.9	18.7
12 23	7 49.00	+15 16.4	2.018	2.932	8.6	18.4
1 2	7 40.90	+15 25.5	1.971	2.933	4.9	18.2
1 12	7 31.76	+15 40.9	1.954	2.934	2.1	18.0
1 22	7 22.55	+16 0.3	1.966	2.934	4.2	18.2
2 1	7 14.27	+16 21.6	2.008	2.935	7.9	18.4
2 11	7 7.78	+16 43.0	2.076	2.935	11.3	18.6
2 21	7 3.61	+17 2.9	2.166	2.935	14.2	18.8
410705 2009 AE_{33}			1 12.2	213°.73	1°.9/12.9	18
12 13	7 57.27	+15 17.2	1.764	2.609	13.5	21.7
12 23	7 50.77	+15 37.1	1.688	2.605	9.7	21.5
1 2	7 41.97	+16 7.4	1.638	2.601	5.5	21.2
1 12	7 31.79	+16 45.2	1.615	2.596	1.9	20.9
1 22	7 21.41	+17 26.9	1.621	2.591	4.7	21.1
2 1	7 12.09	+18 8.8	1.656	2.585	9.1	21.4
2 11	7 4.91	+18 47.9	1.717	2.579	13.1	21.6
2 21	7 0.53	+19 22.6	1.798	2.573	16.4	21.8
159884 2004 RU_{310}			1 12.2	168°.31	1°.6/11.7	18
12 13	8 1.27	+25 5.0	2.016	2.863	12.0	21.4
12 23	7 53.32	+25 32.6	1.949	2.869	8.4	21.2
1 2	7 43.18	+26 0.2	1.908	2.874	4.5	21.0
1 12	7 31.81	+26 23.3	1.897	2.878	1.6	20.8
1 22	7 20.41	+26 38.7	1.916	2.881	4.7	21.0
2 1	7 10.18	+26 45.2	1.965	2.884	8.6	21.3
2 11	7 2.14	+26 43.2	2.041	2.885	12.1	21.5
2 21	6 56.84	+26 34.7	2.138	2.886	15.0	21.7
86839 2000 GD_{162}			1 12.2	127°.41	0°.5/12.4	18
12 13	7 59.77	+17 47.6	1.711	2.559	13.7	19.9
12 23	7 52.43	+18 32.0	1.654	2.574	9.7	19.7
1 2	7 42.76	+19 24.6	1.621	2.587	5.1	19.4
1 12	7 31.81	+20 20.6	1.618	2.601	0.6	19.1
1 22	7 20.85	+21 14.8	1.644	2.613	4.6	19.5
2 1	7 11.18	+22 3.3	1.698	2.625	9.1	19.8
2 11	7 3.85	+22 44.0	1.779	2.637	12.9	20.0
2 21	6 59.42	+23 16.4	1.881	2.647	16.1	20.3
82414 2001 NZ_{15}			1 12.2	191°.62	2°.2/13.4	18
12 13	7 52.70	+12 27.4	2.535	3.365	10.4	20.1
12 23	7 47.02	+12 52.8	2.457	3.364	7.6	19.9
1 2	7 39.82	+13 27.6	2.406	3.363	4.6	19.7
1 12	7 31.74	+14 9.9	2.384	3.361	2.2	19.6
1 22	7 23.55	+14 57.1	2.393	3.360	3.7	19.7
2 1	7 16.05	+15 46.3	2.432	3.358	6.8	19.9
2 11	7 9.96	+16 34.6	2.500	3.356	9.7	20.1
2 21	7 5.75	+17 20.2	2.590	3.353	12.3	20.2
159026 2004 TA_{54}			1 12.2	29°.02	1°.9/12.9	18
12 13	7 54.80	+16 5.0	1.842	2.691	12.8	20.3
12 23	7 48.85	+16 5.9	1.775	2.694	9.2	20.1
1 2	7 40.88	+16 15.0	1.733	2.697	5.2	19.9
1 12	7 31.76	+16 30.3	1.719	2.700	1.9	19.7
1 22	7 22.60	+16 49.4	1.734	2.703	4.5	19.8
2 1	7 14.51	+17 10.0	1.777	2.707	8.5	20.1
2 11	7 8.42	+17 30.1	1.845	2.710	12.2	20.3
2 21	7 4.88	+17 48.2	1.935	2.714	15.3	20.5
262872 2007 BJ_{58}			1 12.2	8°.21	6°.6/11.2	18
12 13	7 59.99	+36 17.4	1.272	2.141	16.2	19.6
12 23	7 53.41	+36 36.2	1.220	2.142	12.1	19.4
1 2	7 43.49	+36 40.9	1.189	2.145	8.3	19.2
1 12	7 31.82	+36 24.4	1.183	2.149	6.6	19.1
1 22	7 20.37	+35 44.1	1.202	2.155	8.8	19.3
2 1	7 11.04	+34 42.8	1.246	2.161	12.7	19.5
2 11	7 5.15	+33 27.4	1.311	2.169	16.6	19.8
2 21	7 3.17	+32 4.9	1.395	2.178	19.9	20.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
175635 2007 TO_{279}			1 12.2	66°.33	0°.5/12.0	18
	h m	° ′			°	m
12 13	7 54.73	+22 31.2	2.170	3.022	11.0	20.4
12 23	7 48.57	+22 46.8	2.108	3.032	7.7	20.2
1 2	7 40.64	+23 4.4	2.073	3.041	4.0	20.0
1 12	7 31.76	+23 21.1	2.067	3.050	0.5	19.7
1 22	7 22.91	+23 34.4	2.091	3.060	3.9	20.0
2 1	7 15.05	+23 43.0	2.144	3.070	7.6	20.2
2 11	7 9.00	+23 46.6	2.224	3.079	10.8	20.5
2 21	7 5.23	+23 45.6	2.325	3.089	13.5	20.7
442716 2012 VH_{11}			1 12.2	92°.87	3°.8/13.4	18
12 13	8 0.66	+12 16.2	1.424	2.268	16.2	21.5
12 23	7 53.13	+12 9.5	1.376	2.289	11.9	21.3
1 2	7 43.11	+12 16.9	1.352	2.310	7.2	21.1
1 12	7 31.82	+12 36.5	1.354	2.330	3.9	21.0
1 22	7 20.73	+13 5.2	1.384	2.350	6.0	21.1
2 1	7 11.25	+13 39.1	1.441	2.369	10.2	21.4
2 11	7 4.44	+14 14.5	1.522	2.388	14.2	21.7
2 21	7 0.78	+14 48.6	1.623	2.407	17.6	22.0
212016 2005 CA_{11}			1 12.2	32°.33	2°.9/11.5	18
12 13	7 58.50	+26 34.7	1.246	2.120	16.0	19.9
12 23	7 52.20	+27 11.5	1.198	2.130	11.3	19.6
1 2	7 42.84	+27 47.5	1.172	2.140	6.2	19.4
1 12	7 31.82	+28 15.6	1.171	2.151	2.9	19.2
1 22	7 20.93	+28 31.1	1.197	2.163	6.6	19.5
2 1	7 11.89	+28 32.5	1.247	2.175	11.5	19.8
2 11	7 5.99	+28 21.6	1.320	2.188	15.8	20.1
2 21	7 3.75	+28 1.5	1.411	2.202	19.4	20.3
321564 2009 SF_{354}			1 12.2	180°.03	4°.8/ 9.8	18
12 13	7 59.16	+35 40.6	2.475	3.315	10.3	20.6
12 23	7 51.82	+36 42.9	2.410	3.317	7.7	20.5
1 2	7 42.42	+37 38.4	2.372	3.317	5.5	20.3
1 12	7 31.82	+38 21.5	2.363	3.318	4.8	20.3
1 22	7 21.09	+38 48.6	2.385	3.317	6.4	20.4
2 1	7 11.33	+38 58.7	2.435	3.317	8.9	20.5
2 11	7 3.52	+38 53.3	2.510	3.315	11.3	20.7
2 21	6 58.23	+38 35.8	2.607	3.314	13.5	20.9
18660 1998 FL_{34}			1 12.2	280°.79	2°.2/12.9	18
12 13	7 55.25	+15 13.5	1.888	2.734	12.8	18.1
12 23	7 49.18	+15 13.4	1.816	2.732	9.2	17.9
1 2	7 41.07	+15 22.0	1.769	2.731	5.3	17.7
1 12	7 31.80	+15 37.7	1.750	2.729	2.2	17.4
1 22	7 22.42	+15 58.0	1.759	2.728	4.6	17.6
2 1	7 14.05	+16 20.7	1.797	2.726	8.5	17.8
2 11	7 7.64	+16 43.5	1.861	2.725	12.2	18.1
2 21	7 3.76	+17 4.8	1.947	2.723	15.3	18.3
291789 2006 KR_{53}			1 12.2	10°.26	3°.5/13.3	18
12 13	7 52.96	+13 14.9	1.068	1.942	18.2	19.7
12 23	7 48.52	+13 27.2	1.015	1.944	13.3	19.4
1 2	7 41.03	+13 58.2	0.982	1.947	7.9	19.2
1 12	7 31.80	+14 44.8	0.973	1.952	3.6	18.9
1 22	7 22.50	+15 41.2	0.987	1.959	6.4	19.1
2 1	7 14.86	+16 40.6	1.025	1.967	11.7	19.4
2 11	7 10.25	+17 37.2	1.085	1.976	16.6	19.7
2 21	7 9.28	+18 26.9	1.162	1.986	20.7	20.0
340717 2006 SA_{66}			1 12.2	133°.15	1°.7/12.9	18
12 13	7 53.50	+15 25.6	2.651	3.485	9.9	21.3
12 23	7 47.44	+15 23.5	2.583	3.494	7.1	21.1
1 2	7 39.98	+15 27.3	2.543	3.503	4.1	20.9
1 12	7 31.78	+15 35.6	2.532	3.511	1.7	20.8
1 22	7 23.58	+15 47.1	2.552	3.519	3.5	20.9
2 1	7 16.14	+16 0.3	2.603	3.527	6.4	21.1
2 11	7 10.10	+16 14.0	2.681	3.535	9.2	21.3
2 21	7 5.90	+16 27.0	2.783	3.542	11.6	21.5
463500 2013 QH_{55}			1 12.2	144°.54	0°.4/12.1	18
12 13	7 56.14	+21 25.1	2.364	3.210	10.5	22.3
12 23	7 49.48	+21 55.2	2.299	3.219	7.3	22.1
1 2	7 41.11	+22 28.3	2.261	3.228	3.8	21.9
1 12	7 31.81	+23 1.0	2.253	3.237	0.4	21.6
1 22	7 22.48	+23 30.5	2.277	3.245	3.7	21.9
2 1	7 14.05	+23 54.9	2.330	3.252	7.2	22.1
2 11	7 7.30	+24 13.3	2.410	3.259	10.3	22.3
2 21	7 2.74	+24 25.9	2.514	3.266	12.9	22.5
165737 2001 QE_{134}			1 12.2	99°.11	0°.3/12.3	18
12 13	7 55.42	+20 49.1	2.354	3.200	10.5	19.8
12 23	7 48.90	+20 46.4	2.292	3.212	7.4	19.6
1 2	7 40.77	+20 46.0	2.257	3.223	3.9	19.4
1 12	7 31.81	+20 46.2	2.251	3.234	0.3	19.1
1 22	7 22.90	+20 45.5	2.276	3.245	3.6	19.4
2 1	7 14.94	+20 43.0	2.331	3.256	7.0	19.6
2 11	7 8.66	+20 38.4	2.413	3.267	10.1	19.8
2 21	7 4.50	+20 31.9	2.518	3.278	12.6	20.0

413958 2007 BM_{97} 1 12.2 331°.30 0°.4/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 55.52	+21 51.7	1.514	2.380	14.2	21.0
12 23	7 49.91	+22 4.9	1.440	2.369	10.0	20.7
1 2	7 41.67	+22 22.4	1.390	2.359	5.2	20.4
1 12	7 31.84	+22 40.4	1.366	2.349	0.4	20.0
1 22	7 21.79	+22 55.3	1.369	2.340	5.2	20.4
2 1	7 12.99	+23 4.7	1.399	2.331	10.1	20.6
2 11	7 6.69	+23 8.1	1.452	2.323	14.5	20.9
2 21	7 3.56	+23 5.9	1.526	2.316	18.2	21.1

336004 2007 TZ_{376} 1 12.2 109°.57 1°.0/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.62	+24 33.5	2.433	3.281	10.1	21.1
12 23	7 49.05	+24 49.0	2.372	3.294	7.1	20.9
1 2	7 40.86	+25 4.5	2.339	3.306	3.7	20.7
1 12	7 31.82	+25 17.2	2.336	3.318	1.0	20.5
1 22	7 22.83	+25 25.1	2.363	3.330	3.8	20.7
2 1	7 14.78	+25 27.3	2.420	3.341	7.1	21.0
2 11	7 8.41	+25 23.9	2.505	3.353	10.0	21.2
2 21	7 4.17	+25 15.9	2.612	3.364	12.4	21.4

182416 2001 RR_{78} 1 12.2 103°.99 6°.8/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.48	+ 1 10.4	2.039	2.831	14.0	19.9
12 23	7 49.04	+ 0 50.5	1.983	2.849	11.2	19.8
1 2	7 40.88	+ 0 49.6	1.950	2.868	8.6	19.6
1 12	7 31.83	+ 1 8.1	1.944	2.885	6.9	19.6
1 22	7 22.82	+ 1 44.4	1.967	2.903	7.3	19.6
2 1	7 14.82	+ 2 34.9	2.017	2.919	9.3	19.8
2 11	7 8.59	+ 3 34.7	2.093	2.936	11.9	20.0
2 21	7 4.61	+ 4 38.7	2.191	2.952	14.3	20.2

105255 2000 QR_{10} 1 12.2 144°.07 1°.1/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.88	+16 36.0	2.904	3.739	9.1	20.3
12 23	7 46.95	+16 52.3	2.836	3.749	6.4	20.1
1 2	7 39.73	+17 13.7	2.795	3.758	3.6	19.9
1 12	7 31.80	+17 38.4	2.785	3.767	1.1	19.8
1 22	7 23.85	+18 4.4	2.806	3.775	3.1	19.9
2 1	7 16.58	+18 30.1	2.858	3.783	5.9	20.1
2 11	7 10.58	+18 54.0	2.939	3.790	8.6	20.3
2 21	7 6.28	+19 15.4	3.043	3.797	10.8	20.5

457785 2009 PJ_{15} 1 12.2 117°.73 4°.3/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.16	+ 7 13.7	2.125	2.941	12.7	22.0
12 23	7 48.83	+ 7 21.9	2.063	2.955	9.6	21.9
1 2	7 40.79	+ 7 44.5	2.026	2.969	6.5	21.7
1 12	7 31.83	+ 8 20.4	2.017	2.983	4.4	21.6
1 22	7 22.88	+ 9 6.8	2.038	2.996	5.3	21.7
2 1	7 14.86	+10 0.1	2.089	3.009	8.1	21.9
2 11	7 8.56	+10 56.5	2.166	3.021	11.0	22.1
2 21	7 4.46	+11 52.3	2.266	3.033	13.7	22.3

232267 2002 QS_{49} 1 12.2 58°.07 0°.0/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.50	+20 20.6	2.032	2.885	11.7	20.4
12 23	7 48.56	+20 47.4	1.968	2.892	8.2	20.1
1 2	7 40.72	+21 18.8	1.931	2.898	4.2	19.9
1 12	7 31.83	+21 51.5	1.922	2.905	0.1	19.6
1 22	7 22.92	+22 22.0	1.943	2.913	4.0	19.9
2 1	7 15.00	+22 48.2	1.992	2.920	7.9	20.2
2 11	7 8.95	+23 8.8	2.068	2.927	11.3	20.4
2 21	7 5.30	+23 23.5	2.166	2.934	14.2	20.6

298946 2004 TZ_{293} 1 12.2 37°.93 4°.8/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.98	+10 46.6	1.422	2.268	16.1	20.6
12 23	7 50.80	+10 24.9	1.359	2.271	12.1	20.4
1 2	7 42.06	+10 18.6	1.319	2.274	7.8	20.1
1 12	7 31.87	+10 27.6	1.305	2.277	4.9	20.0
1 22	7 21.62	+10 49.7	1.317	2.281	6.6	20.1
2 1	7 12.73	+11 21.6	1.356	2.285	10.7	20.3
2 11	7 6.35	+11 58.7	1.418	2.289	14.8	20.6
2 21	7 3.11	+12 37.3	1.499	2.293	18.3	20.8

458372 2010 WX_{4} 1 12.2 30°.20 0°.4/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.43	+22 17.4	1.702	2.561	13.3	21.6
12 23	7 50.91	+22 25.2	1.637	2.562	9.3	21.3
1 2	7 42.04	+22 35.5	1.596	2.564	4.8	21.1
1 12	7 31.88	+22 45.1	1.583	2.566	0.4	20.7
1 22	7 21.68	+22 51.3	1.598	2.568	4.7	21.1
2 1	7 12.75	+22 52.6	1.642	2.570	9.2	21.3
2 11	7 6.14	+22 49.0	1.710	2.573	13.1	21.6
2 21	7 2.42	+22 41.2	1.799	2.575	16.4	21.8

347378 2012 RM_{14} 1 12.2 133°.07 2°.0/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.90	+28 35.2	2.789	3.633	9.1	21.3
12 23	7 49.14	+28 54.2	2.727	3.645	6.4	21.2
1 2	7 40.89	+29 10.4	2.693	3.656	3.6	21.0
1 12	7 31.86	+29 21.1	2.690	3.667	2.0	20.9
1 22	7 22.88	+29 24.5	2.718	3.677	3.9	21.1
2 1	7 14.75	+29 20.1	2.776	3.687	6.7	21.3
2 11	7 8.17	+29 8.5	2.861	3.697	9.2	21.4
2 21	7 3.56	+28 51.3	2.970	3.706	11.4	21.6

56195 1999 GX_{6} 1 12.2 357°.39 16°.3/18.2 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 53.05	−17 22.4	1.651	2.354	20.1	17.9
12 23	7 47.94	−19 4.8	1.593	2.352	18.6	17.7
1 2	7 40.57	−20 12.6	1.551	2.350	17.3	17.6
1 12	7 31.86	−20 38.7	1.528	2.349	16.4	17.6
1 22	7 22.96	−20 20.7	1.524	2.349	16.3	17.5
2 1	7 15.11	−19 21.0	1.540	2.349	17.0	17.6
2 11	7 9.38	−17 47.4	1.575	2.350	18.3	17.7
2 21	7 6.41	−15 50.2	1.626	2.352	19.8	17.8

355255 2007 JE_{45} 1 12.2 145°.66 1°.9/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.09	+14 39.8	1.982	2.817	12.7	21.8
12 23	7 51.73	+15 0.2	1.918	2.830	9.1	21.6
1 2	7 42.37	+15 29.8	1.881	2.842	5.2	21.4
1 12	7 31.91	+16 5.8	1.873	2.853	2.0	21.2
1 22	7 21.45	+16 44.9	1.895	2.863	4.3	21.4
2 1	7 12.07	+17 24.0	1.947	2.872	8.2	21.6
2 11	7 4.69	+18 0.7	2.025	2.881	11.7	21.8
2 21	6 59.83	+18 33.5	2.127	2.888	14.6	22.1

467568 2007 TF_{292} 1 12.2 57°.02 4°.1/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.36	+ 9 10.4	2.050	2.878	12.6	21.0
12 23	7 47.60	+ 9 2.6	1.994	2.894	9.5	20.8
1 2	7 40.17	+ 9 7.5	1.963	2.911	6.3	20.7
1 12	7 31.86	+ 9 24.4	1.959	2.927	4.1	20.6
1 22	7 23.61	+ 9 51.3	1.985	2.944	5.2	20.7
2 1	7 16.33	+10 25.4	2.039	2.961	8.1	20.9
2 11	7 10.78	+11 3.3	2.118	2.978	11.1	21.1
2 21	7 7.41	+11 42.1	2.221	2.996	13.7	21.3

396084 2013 CH_{91} 1 12.2 281°.85 0°.4/12.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 50.76	+22 12.8	3.106	3.952	8.2	21.2
12 23	7 45.58	+22 32.8	3.017	3.938	5.8	21.0
1 2	7 39.09	+22 54.8	2.956	3.923	3.0	20.8
1 12	7 31.84	+23 16.8	2.926	3.909	0.4	20.6
1 22	7 24.47	+23 36.8	2.927	3.895	3.0	20.8
2 1	7 17.63	+23 53.4	2.958	3.880	5.8	21.0
2 11	7 11.97	+24 5.8	3.016	3.866	8.4	21.1
2 21	7 7.92	+24 14.1	3.099	3.851	10.7	21.3

410463 2008 CL_{180} 1 12.2 319°.62 10°.2/15.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.04	− 2 6.2	1.534	2.334	17.5	20.7
12 23	7 48.08	− 2 49.5	1.456	2.320	14.7	20.5
1 2	7 40.73	− 3 6.5	1.398	2.307	12.0	20.3
1 12	7 31.89	− 2 53.3	1.364	2.294	10.3	20.1
1 22	7 22.72	− 2 9.6	1.354	2.282	10.6	20.1
2 1	7 14.56	− 0 59.4	1.368	2.271	12.8	20.2
2 11	7 8.56	+ 0 29.7	1.405	2.260	15.9	20.4
2 21	7 5.45	+ 2 8.9	1.461	2.249	19.0	20.5

158562 2002 JJ_{76} 1 12.2 254°.77 4°.3/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.53	+ 9 36.4	2.038	2.866	12.7	20.1
12 23	7 48.59	+ 9 15.1	1.961	2.861	9.6	19.9
1 2	7 40.78	+ 9 5.5	1.909	2.857	6.4	19.7
1 12	7 31.90	+ 9 7.9	1.885	2.852	4.3	19.5
1 22	7 22.89	+ 9 21.1	1.889	2.848	5.5	19.6
2 1	7 14.76	+ 9 43.1	1.922	2.843	8.6	19.8
2 11	7 8.39	+10 11.0	1.981	2.839	11.8	20.0
2 21	7 4.32	+10 41.9	2.062	2.834	14.7	20.2

158700 2003 FR_{108} 1 12.3 189°.33 2°.8/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.10	+29 55.0	2.596	3.440	9.7	20.7
12 23	7 50.92	+30 32.0	2.522	3.439	7.0	20.5
1 2	7 41.94	+31 5.8	2.477	3.437	4.2	20.3
1 12	7 31.93	+31 32.6	2.461	3.434	2.8	20.2
1 22	7 21.82	+31 49.4	2.477	3.431	4.7	20.4
2 1	7 12.58	+31 55.2	2.522	3.427	7.6	20.5
2 11	7 5.05	+31 50.8	2.595	3.423	10.3	20.7
2 21	6 59.74	+31 38.1	2.690	3.418	12.7	20.9

279068 2008 WM_{47} 1 12.3 159°.65 0°.7/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.86	+22 43.1	2.242	3.093	10.8	21.5
12 23	7 48.75	+23 7.6	2.171	3.094	7.5	21.3
1 2	7 40.84	+23 34.3	2.128	3.095	3.9	21.1
1 12	7 31.90	+24 0.0	2.113	3.096	0.7	20.8
1 22	7 22.90	+24 22.0	2.129	3.097	3.9	21.1
2 1	7 14.80	+24 38.3	2.174	3.097	7.6	21.3
2 11	7 8.44	+24 48.5	2.245	3.098	10.8	21.5
2 21	7 4.34	+24 53.0	2.339	3.099	13.5	21.7

219045 1995 UG_{11} 1 12.3 112°.54 2°.7/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.44	+13 10.0	2.027	2.864	12.4	20.6
12 23	7 49.15	+13 8.7	1.963	2.873	9.0	20.4
1 2	7 41.03	+13 17.2	1.924	2.881	5.4	20.2
1 12	7 31.91	+13 33.9	1.913	2.890	2.8	20.0
1 22	7 22.78	+13 56.8	1.932	2.898	4.5	20.1
2 1	7 14.64	+14 23.4	1.980	2.906	8.0	20.4
2 11	7 8.34	+14 51.2	2.054	2.914	11.3	20.6
2 21	7 4.36	+15 18.3	2.150	2.921	14.2	20.8

4158 Santini 1 12.3 194°.11 2°.3/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 54.38	+29 0.3	2.620	3.469	9.5	17.0
12 23	7 48.27	+29 26.3	2.549	3.469	6.7	16.8
1 2	7 40.53	+29 49.7	2.506	3.468	3.9	16.7
1 12	7 31.90	+30 7.4	2.492	3.468	2.4	16.5
1 22	7 23.21	+30 17.0	2.509	3.468	4.3	16.7
2 1	7 15.36	+30 17.7	2.555	3.467	7.2	16.9
2 11	7 9.08	+30 10.0	2.628	3.466	9.9	17.0
2 21	7 4.86	+29 55.4	2.724	3.466	12.2	17.2

203460 2001 YQ_{118} 1 12.3 26°.85 2°.2/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.85	+23 16.6	1.321	2.192	15.5	19.5
12 23	7 51.83	+24 25.8	1.264	2.195	10.9	19.2
1 2	7 42.79	+25 40.6	1.230	2.199	5.8	18.9
1 12	7 31.96	+26 52.7	1.222	2.203	2.3	18.7
1 22	7 20.97	+27 54.3	1.241	2.207	6.4	19.0
2 1	7 11.55	+28 40.5	1.285	2.212	11.4	19.3
2 11	7 5.07	+29 10.7	1.353	2.217	15.8	19.5
2 21	7 2.20	+29 26.5	1.439	2.223	19.4	19.8

112205 2002 JR_{123} 1 12.3 112°.00 3°.1/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.27	+12 9.6	1.719	2.558	14.1	19.9
12 23	7 50.67	+12 23.2	1.658	2.569	10.3	19.7
1 2	7 41.90	+12 49.7	1.622	2.580	6.2	19.5
1 12	7 31.94	+13 26.9	1.614	2.591	3.2	19.3
1 22	7 21.97	+14 11.2	1.634	2.601	5.1	19.5
2 1	7 13.19	+14 58.5	1.683	2.611	9.0	19.7
2 11	7 6.58	+15 45.3	1.757	2.621	12.7	20.0
2 21	7 2.68	+16 28.9	1.853	2.631	15.9	20.2

28120 1998 SX_{72} 1 12.3 215°.39 3°.5/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.07	+28 45.0	1.716	2.570	13.4	19.0
12 23	7 54.49	+29 36.2	1.642	2.564	9.6	18.8
1 2	7 44.11	+30 25.5	1.594	2.557	5.6	18.5
1 12	7 32.00	+31 6.1	1.574	2.549	3.6	18.4
1 22	7 19.63	+31 32.5	1.582	2.541	6.4	18.5
2 1	7 8.56	+31 42.7	1.619	2.531	10.5	18.7
2 11	7 0.11	+31 38.2	1.680	2.522	14.4	18.9
2 21	6 54.99	+31 22.5	1.761	2.512	17.6	19.2

112518 2002 PG_{28} 1 12.3 91°.10 0°.5/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.35	+19 32.2	1.659	2.514	13.7	20.0
12 23	7 51.50	+19 44.7	1.602	2.525	9.7	19.8
1 2	7 42.35	+20 2.7	1.569	2.536	5.1	19.5
1 12	7 31.95	+20 22.9	1.564	2.547	0.6	19.2
1 22	7 21.61	+20 42.2	1.588	2.558	4.7	19.5
2 1	7 12.60	+20 58.3	1.640	2.569	9.1	19.8
2 11	7 5.95	+21 10.2	1.716	2.580	13.0	20.1
2 21	7 2.20	+21 17.8	1.814	2.590	16.2	20.3

281088 2006 SY_{411} 1 12.3 192°.51 4°.2/13.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.76	+ 6 44.8	2.900	3.704	10.0	20.6
12 23	7 46.90	+ 6 16.9	2.820	3.702	7.7	20.4
1 2	7 39.76	+ 5 58.7	2.767	3.700	5.5	20.3
1 12	7 31.89	+ 5 50.7	2.742	3.698	4.2	20.2
1 22	7 23.96	+ 5 52.5	2.749	3.695	4.8	20.2
2 1	7 16.64	+ 6 2.9	2.785	3.692	6.9	20.4
2 11	7 10.54	+ 6 20.1	2.848	3.689	9.1	20.5
2 21	7 6.08	+ 6 41.7	2.936	3.685	11.2	20.7

271748 2004 RC_{336} 1 12.3 166°.74 2°.8/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.43	+30 10.2	2.488	3.333	10.1	21.5
12 23	7 51.14	+30 39.8	2.421	3.337	7.2	21.4
1 2	7 42.04	+31 5.6	2.381	3.342	4.3	21.2
1 12	7 31.95	+31 23.7	2.372	3.345	2.8	21.1
1 22	7 21.84	+31 31.6	2.393	3.348	4.8	21.2
2 1	7 12.70	+31 28.8	2.444	3.351	7.7	21.4
2 11	7 5.36	+31 16.2	2.522	3.353	10.5	21.6
2 21	7 0.32	+30 56.2	2.622	3.354	12.9	21.8

370396 2002 TU_{170} 1 12.3 53°.04 1°.0/12.5 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.08	+19 36.6	1.892	2.743	12.5	19.7
12 23	7 50.28	+19 16.4	1.841	2.762	8.8	19.5
1 2	7 41.57	+18 59.8	1.815	2.781	4.7	19.3
1 12	7 31.95	+18 45.6	1.818	2.800	1.1	19.1
1 22	7 22.51	+18 32.8	1.850	2.819	4.2	19.4
2 1	7 14.31	+18 20.8	1.910	2.839	8.1	19.6
2 11	7 8.17	+18 9.2	1.997	2.859	11.5	19.9
2 21	7 4.53	+17 58.0	2.106	2.879	14.4	20.1

155948 Maquet 1 12.3 213°.11 2°.3/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.69	+14 51.8	1.616	2.463	14.5	20.7
12 23	7 51.98	+15 5.1	1.542	2.458	10.5	20.5
1 2	7 42.75	+15 29.8	1.491	2.454	6.0	20.2
1 12	7 31.99	+16 3.3	1.468	2.449	2.3	19.9
1 22	7 21.00	+16 41.7	1.474	2.443	5.1	20.1
2 1	7 11.19	+17 21.3	1.507	2.437	9.7	20.4
2 11	7 3.73	+17 59.0	1.566	2.431	14.0	20.6
2 21	6 59.31	+18 32.9	1.645	2.424	17.5	20.8

489406 2006 VN_{25} 1 12.3 87°.92 0°.2/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 55.50	+21 26.5	2.818	3.658	9.2	22.5
12 23	7 48.70	+21 43.6	2.774	3.691	6.4	22.3
1 2	7 40.62	+22 2.3	2.758	3.724	3.3	22.2
1 12	7 31.93	+22 20.3	2.772	3.756	0.2	21.9
1 22	7 23.38	+22 36.0	2.819	3.787	3.1	22.3
2 1	7 15.69	+22 48.0	2.896	3.818	6.0	22.5
2 11	7 9.45	+22 56.2	3.002	3.848	8.6	22.7
2 21	7 5.03	+23 0.7	3.132	3.878	10.7	22.9

34781 2001 RK_{63} 1 12.3 107°.70 7°.0/16.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 51.85	− 3 55.4	2.496	3.256	12.6	18.6
12 23	7 46.41	− 3 54.3	2.426	3.264	10.5	18.5
1 2	7 39.55	− 3 33.5	2.380	3.271	8.5	18.3
1 12	7 31.91	− 2 52.7	2.360	3.279	7.2	18.3
1 22	7 24.22	− 1 53.5	2.368	3.287	7.2	18.3
2 1	7 17.24	− 0 39.5	2.404	3.294	8.6	18.4
2 11	7 11.64	+ 0 44.3	2.468	3.301	10.6	18.5
2 21	7 7.87	+ 2 12.5	2.554	3.308	12.6	18.7

198799 2005 EL_{157} 1 12.3 256°.22 0°.7/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.09	+23 6.3	2.196	3.048	10.9	20.7
12 23	7 48.96	+23 24.3	2.123	3.046	7.7	20.5
1 2	7 40.98	+23 44.0	2.077	3.045	4.0	20.3
1 12	7 31.94	+24 2.3	2.060	3.043	0.7	20.0
1 22	7 22.83	+24 16.9	2.073	3.041	4.0	20.3
2 1	7 14.64	+24 26.0	2.114	3.039	7.7	20.5
2 11	7 8.23	+24 29.4	2.183	3.037	11.0	20.7
2 21	7 4.14	+24 27.6	2.273	3.035	13.8	20.9

202327 2005 ER_{75} 1 12.3 306°.47 0°.4/12.1 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.79	+22 5.2	2.113	2.966	11.3	21.0
12 23	7 48.82	+22 23.4	2.039	2.963	7.9	20.8
1 2	7 40.93	+22 44.4	1.992	2.959	4.1	20.5
1 12	7 31.95	+23 5.1	1.973	2.956	0.4	20.2
1 22	7 22.87	+23 22.8	1.984	2.953	4.1	20.5
2 1	7 14.72	+23 35.8	2.024	2.950	7.9	20.7
2 11	7 8.39	+23 43.3	2.090	2.947	11.3	20.9
2 21	7 4.44	+23 45.8	2.178	2.944	14.2	21.1

186475 2002 TO_{65} 1 12.3 180°.00 0°.2/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.00	+22 1.9	1.987	2.829	12.4	21.4
12 23	7 54.59	+22 7.1	1.914	2.832	8.7	21.2
1 2	7 43.95	+22 14.0	1.867	2.833	4.5	20.9
1 12	7 32.04	+22 19.5	1.851	2.834	0.2	20.6
1 22	7 20.08	+22 21.2	1.865	2.833	4.4	20.9
2 1	7 9.31	+22 18.2	1.910	2.832	8.6	21.2
2 11	7 0.75	+22 10.8	1.981	2.829	12.2	21.4
2 21	6 54.96	+22 0.2	2.074	2.825	15.3	21.6

230009 2000 EY_{101} 1 12.3 109°.61 3°.2/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.87	+31 8.6	2.264	3.113	10.8	20.7
12 23	7 50.85	+31 33.9	2.204	3.121	7.7	20.5
1 2	7 41.92	+31 54.1	2.170	3.130	4.7	20.4
1 12	7 31.99	+32 5.5	2.166	3.138	3.2	20.3
1 22	7 22.11	+32 5.6	2.192	3.147	5.2	20.4
2 1	7 13.34	+31 54.2	2.246	3.155	8.2	20.6
2 11	7 6.53	+31 32.9	2.327	3.163	11.1	20.8
2 21	7 2.18	+31 4.3	2.430	3.171	13.5	21.0

462636 2009 RQ_{74} 1 12.3 111°.73 2°.3/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.04	+13 46.1	2.098	2.934	12.0	21.6
12 23	7 49.50	+13 55.1	2.039	2.949	8.7	21.4
1 2	7 41.20	+14 13.2	2.005	2.964	5.1	21.2
1 12	7 31.97	+14 38.5	2.000	2.978	2.4	21.0
1 22	7 22.77	+15 8.3	2.025	2.992	4.2	21.2
2 1	7 14.57	+15 40.2	2.079	3.006	7.7	21.4
2 11	7 8.17	+16 11.7	2.161	3.019	10.9	21.7
2 21	7 4.04	+16 41.1	2.264	3.032	13.7	21.9

108770 2001 OV_{51} 1 12.3 179°.30 3°.8/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.32	+32 53.5	2.353	3.201	10.5	20.1
12 23	7 50.54	+33 29.1	2.286	3.201	7.7	19.9
1 2	7 41.81	+33 59.2	2.246	3.201	4.9	19.7
1 12	7 31.99	+34 19.2	2.234	3.201	3.8	19.6
1 22	7 22.13	+34 26.5	2.253	3.201	5.6	19.7
2 1	7 13.28	+34 20.4	2.300	3.201	8.4	19.9
2 11	7 6.35	+34 2.5	2.373	3.201	11.2	20.1
2 21	7 1.85	+33 35.6	2.467	3.201	13.6	20.3

366354 1999 TV_{165} 1 12.3 80°.79 3°.4/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.29	+30 54.6	1.969	2.820	12.1	20.7
12 23	7 52.61	+31 21.6	1.923	2.842	8.6	20.6
1 2	7 42.82	+31 42.8	1.904	2.864	5.2	20.4
1 12	7 32.02	+31 53.8	1.913	2.886	3.4	20.3
1 22	7 21.43	+31 52.2	1.952	2.908	5.6	20.5
2 1	7 12.25	+31 38.2	2.019	2.930	8.9	20.8
2 11	7 5.37	+31 14.0	2.111	2.951	11.9	21.0
2 21	7 1.24	+30 42.8	2.226	2.972	14.5	21.2

5576 Albanese 1 12.3 8°.47 3°.4/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 57.37	+28 56.0	1.696	2.558	13.1	16.4
12 23	7 51.07	+29 38.2	1.633	2.558	9.4	16.1
1 2	7 42.26	+30 17.7	1.595	2.559	5.5	15.9
1 12	7 32.01	+30 48.7	1.584	2.560	3.4	15.8
1 22	7 21.68	+31 6.9	1.602	2.562	6.1	15.9
2 1	7 12.69	+31 10.8	1.646	2.563	10.0	16.2
2 11	7 6.15	+31 1.8	1.715	2.566	13.7	16.4
2 21	7 2.68	+30 42.8	1.804	2.568	16.8	16.6

492658 2014 OO_{388} 1 12.3 163°.90 0°.9/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.73	+23 11.7	2.030	2.878	11.9	22.5
12 23	7 52.29	+23 35.3	1.963	2.884	8.3	22.2
1 2	7 42.75	+24 0.4	1.922	2.889	4.3	22.0
1 12	7 32.04	+24 23.3	1.911	2.894	0.9	21.8
1 22	7 21.29	+24 40.9	1.930	2.897	4.4	22.0
2 1	7 11.65	+24 51.7	1.979	2.901	8.3	22.3
2 11	7 4.09	+24 55.6	2.054	2.903	11.8	22.5
2 21	6 59.15	+24 53.7	2.151	2.905	14.7	22.7

176204 2001 PZ_{57} 1 12.3 174°.81 3°.1/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.37	+30 47.0	2.108	2.955	11.6	20.6
12 23	7 53.44	+31 2.2	2.040	2.957	8.3	20.4
1 2	7 43.34	+31 11.9	1.998	2.958	4.9	20.2
1 12	7 32.06	+31 12.0	1.985	2.960	3.1	20.1
1 22	7 20.81	+31 0.1	2.003	2.961	5.3	20.2
2 1	7 10.80	+30 36.6	2.050	2.961	8.7	20.4
2 11	7 2.98	+30 3.7	2.123	2.961	11.9	20.6
2 21	6 57.90	+29 24.5	2.218	2.960	14.6	20.8

9449 Petrbondy 1 12.3 234°.53 0°.1/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.18	+22 18.8	2.262	3.111	10.8	17.5
12 23	7 49.67	+22 15.7	2.186	3.107	7.6	17.3
1 2	7 41.35	+22 14.0	2.135	3.102	4.0	17.1
1 12	7 32.01	+22 11.4	2.115	3.098	0.2	16.7
1 22	7 22.62	+22 6.5	2.124	3.094	3.8	17.0
2 1	7 14.14	+21 58.5	2.164	3.089	7.5	17.3
2 11	7 7.41	+21 47.5	2.230	3.085	10.8	17.5
2 21	7 2.96	+21 34.1	2.319	3.080	13.6	17.7

333781 2011 FO_{66} 1 12.3 260°.34 2°.8/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.14	+12 53.5	2.125	2.961	11.9	21.2
12 23	7 48.34	+12 53.0	2.044	2.953	8.8	21.0
1 2	7 40.71	+13 2.2	1.989	2.946	5.3	20.8
1 12	7 32.00	+13 20.1	1.962	2.939	2.8	20.6
1 22	7 23.13	+13 44.6	1.965	2.931	4.5	20.7
2 1	7 15.09	+14 13.3	1.997	2.923	7.9	20.9
2 11	7 8.74	+14 43.7	2.055	2.916	11.3	21.1
2 21	7 4.64	+15 13.6	2.136	2.908	14.2	21.3

321025 2008 ME_{1} 1 12.3 237°.71 6°.7/ 9.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.29	+46 48.2	2.977	3.772	9.9	21.7
12 23	7 58.28	+47 26.7	2.889	3.750	8.3	21.5
1 2	7 45.90	+47 51.4	2.828	3.728	7.0	21.4
1 12	7 32.15	+47 56.4	2.796	3.705	6.7	21.4
1 22	7 18.25	+47 39.1	2.794	3.680	7.7	21.4
2 1	7 5.52	+47 0.0	2.821	3.655	9.4	21.5
2 11	6 55.02	+46 2.7	2.874	3.629	11.3	21.6
2 21	6 47.38	+44 52.7	2.949	3.602	13.1	21.7

5838 Hamsun 1 12.3 239°.35 7°.4/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.94	+ 0 30.2	1.999	2.791	14.3	18.0
12 23	7 49.01	+ 0 6.6	1.916	2.781	11.7	17.8
1 2	7 41.11	+ 0 2.6	1.855	2.770	9.1	17.7
1 12	7 32.03	+ 0 20.0	1.821	2.760	7.5	17.5
1 22	7 22.71	+ 0 57.8	1.814	2.748	7.9	17.5
2 1	7 14.19	+ 1 53.0	1.835	2.737	10.1	17.7
2 11	7 7.42	+ 3 0.4	1.880	2.725	12.9	17.8
2 21	7 3.01	+ 4 14.4	1.948	2.713	15.7	18.0

306286 2011 SU_{27} 1 12.3 83°.81 1°.5/12.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.23	+16 55.1	1.533	2.384	14.9	21.0
12 23	7 52.81	+17 10.4	1.488	2.408	10.5	20.8
1 2	7 43.03	+17 34.3	1.467	2.432	5.7	20.6
1 12	7 32.07	+18 3.2	1.473	2.455	1.5	20.4
1 22	7 21.32	+18 33.4	1.508	2.478	4.9	20.7
2 1	7 12.11	+19 1.8	1.570	2.501	9.4	21.0
2 11	7 5.44	+19 26.5	1.658	2.523	13.3	21.3
2 21	7 1.78	+19 46.7	1.766	2.545	16.5	21.5

44510 1998 XB_{51} 1 12.3 333°.42 1°.4/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.87	+26 0.7	2.054	2.908	11.5	17.9
12 23	7 50.31	+26 3.8	1.982	2.906	8.1	17.7
1 2	7 41.74	+26 5.3	1.936	2.903	4.3	17.4
1 12	7 32.04	+26 2.5	1.920	2.901	1.4	17.2
1 22	7 22.32	+25 53.4	1.932	2.899	4.4	17.4
2 1	7 13.67	+25 37.7	1.974	2.897	8.2	17.7
2 11	7 7.03	+25 16.2	2.042	2.896	11.7	17.9
2 21	7 2.91	+24 50.6	2.131	2.894	14.5	18.1

4026 Beet 1 12.3 345°.96 1°.2/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 55.42	+17 38.3	1.312	2.179	15.8	16.7
12 23	7 50.11	+17 59.0	1.245	2.173	11.3	16.5
1 2	7 41.95	+18 30.7	1.200	2.168	6.1	16.2
1 12	7 32.05	+19 9.5	1.181	2.164	1.2	15.8
1 22	7 21.94	+19 50.2	1.188	2.160	5.5	16.1
2 1	7 13.22	+20 28.6	1.221	2.157	10.8	16.4
2 11	7 7.22	+21 1.5	1.276	2.155	15.5	16.6
2 21	7 4.67	+21 27.7	1.350	2.154	19.5	16.9

505015 2011 QF_{1} 1 12.3 188°.36 5°.7/16.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 50.86	− 5 0.0	3.581	4.317	9.5	23.2
12 23	7 45.45	− 5 3.8	3.498	4.316	8.1	23.1
1 2	7 39.00	− 4 53.3	3.439	4.314	6.7	23.0
1 12	7 31.98	− 4 28.1	3.408	4.311	5.8	22.9
1 22	7 24.88	− 3 49.0	3.406	4.308	5.9	22.9
2 1	7 18.24	− 2 57.8	3.433	4.305	6.8	23.0
2 11	7 12.55	− 1 57.6	3.488	4.301	8.3	23.1
2 21	7 8.16	− 0 51.7	3.568	4.296	9.8	23.2

281342 2007 UP_{2} 1 12.3 111°.06 0°.7/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.81	+22 39.1	2.398	3.246	10.3	20.9
12 23	7 48.60	+23 5.2	2.335	3.256	7.2	20.7
1 2	7 40.76	+23 33.2	2.299	3.266	3.7	20.5
1 12	7 32.02	+24 0.0	2.293	3.276	0.7	20.3
1 22	7 23.28	+24 23.1	2.317	3.285	3.7	20.6
2 1	7 15.42	+24 40.8	2.371	3.294	7.1	20.8
2 11	7 9.19	+24 52.6	2.452	3.303	10.1	21.0
2 21	7 5.08	+24 58.8	2.556	3.312	12.6	21.2

500201 2012 HO_{9} 1 12.3 273°.60 1°.5/11.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.30	+22 42.3	1.897	2.753	12.2	21.5
12 23	7 50.26	+23 44.4	1.816	2.741	8.6	21.3
1 2	7 41.90	+24 52.0	1.761	2.729	4.6	21.0
1 12	7 32.06	+25 59.4	1.735	2.716	1.5	20.8
1 22	7 21.87	+27 0.9	1.738	2.704	5.0	21.0
2 1	7 12.61	+27 52.4	1.770	2.692	9.2	21.2
2 11	7 5.39	+28 31.9	1.828	2.679	12.9	21.4
2 21	7 0.94	+29 0.0	1.907	2.667	16.1	21.6

409986 2006 VH_{129} 1 12.3 91°.19 3°.3/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.36	+13 52.3	1.805	2.642	13.6	20.6
12 23	7 51.93	+13 20.2	1.751	2.661	9.9	20.4
1 2	7 42.49	+12 57.1	1.724	2.681	6.0	20.2
1 12	7 32.07	+12 42.7	1.724	2.700	3.3	20.1
1 22	7 21.81	+12 36.0	1.754	2.718	5.2	20.2
2 1	7 12.84	+12 35.7	1.812	2.736	8.8	20.5
2 11	7 6.04	+12 40.0	1.896	2.754	12.2	20.7
2 21	7 1.85	+12 47.1	2.002	2.772	15.1	21.0

483609 2004 RG_{210} 1 12.3 139°.60 8°.6/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 15.43	+45 52.3	1.861	2.672	14.4	20.6
12 23	8 3.64	+46 19.0	1.809	2.685	11.6	20.4
1 2	7 48.67	+46 24.2	1.781	2.697	9.4	20.3
1 12	7 32.24	+46 0.3	1.781	2.708	8.6	20.3
1 22	7 16.39	+45 5.7	1.809	2.718	9.7	20.4
2 1	7 2.98	+43 45.0	1.864	2.728	12.1	20.6
2 11	6 53.19	+42 6.9	1.944	2.737	14.7	20.8
2 21	6 47.39	+40 20.5	2.045	2.745	17.0	20.9

204153 2003 YZ_{168} 1 12.3 14°.58 1°.1/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.83	+25 15.0	1.929	2.785	12.0	19.9
12 23	7 50.33	+25 12.4	1.863	2.787	8.4	19.7
1 2	7 41.75	+25 8.7	1.822	2.789	4.5	19.4
1 12	7 32.06	+25 1.4	1.809	2.792	1.1	19.2
1 22	7 22.38	+24 48.6	1.826	2.794	4.5	19.4
2 1	7 13.87	+24 30.2	1.871	2.797	8.4	19.7
2 11	7 7.46	+24 7.1	1.942	2.800	12.0	19.9
2 21	7 3.67	+23 40.8	2.035	2.804	14.9	20.1

87980 2000 TT_{53} 1 12.3 155°.07 0°.9/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.32	+17 51.1	2.304	3.144	10.9	21.0
12 23	7 49.69	+18 2.9	2.235	3.151	7.8	20.8
1 2	7 41.34	+18 20.0	2.193	3.157	4.2	20.6
1 12	7 32.06	+18 40.1	2.181	3.163	1.0	20.3
1 22	7 22.73	+19 1.0	2.199	3.169	3.7	20.6
2 1	7 14.31	+19 20.7	2.248	3.174	7.2	20.8
2 11	7 7.56	+19 38.1	2.323	3.178	10.4	21.0
2 21	7 3.00	+19 52.4	2.422	3.182	13.1	21.2

415789 2000 WO_{193} 1 12.3 231°.89 3°.5/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.86	+12 18.4	1.944	2.780	12.9	21.2
12 23	7 49.61	+11 55.2	1.870	2.778	9.5	21.0
1 2	7 41.40	+11 41.8	1.821	2.776	6.0	20.8
1 12	7 32.06	+11 38.0	1.801	2.774	3.6	20.6
1 22	7 22.63	+11 42.9	1.809	2.772	5.2	20.7
2 1	7 14.18	+11 54.6	1.846	2.770	8.6	20.9
2 11	7 7.61	+12 10.9	1.908	2.768	12.1	21.1
2 21	7 3.49	+12 29.6	1.992	2.766	15.1	21.3

77835 2001 QS_{255} 1 12.3 271°.53 0°.6/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 55.94	+23 39.4	2.252	3.102	10.8	19.5
12 23	7 49.55	+23 39.4	2.174	3.096	7.6	19.3
1 2	7 41.33	+23 39.8	2.123	3.090	4.0	19.0
1 12	7 32.06	+23 38.2	2.101	3.084	0.6	18.8
1 22	7 22.72	+23 33.0	2.109	3.078	3.9	19.0
2 1	7 14.30	+23 23.5	2.147	3.072	7.6	19.2
2 11	7 7.65	+23 10.0	2.212	3.066	10.9	19.4
2 21	7 3.30	+22 53.2	2.299	3.060	13.7	19.6

82723 2001 PN_{51} 1 12.3 21°.28 2°.5/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.89	+26 33.2	1.636	2.503	13.2	18.5
12 23	7 49.26	+27 9.4	1.583	2.512	9.3	18.3
1 2	7 41.29	+27 44.9	1.555	2.523	5.1	18.1
1 12	7 32.06	+28 14.5	1.554	2.534	2.5	17.9
1 22	7 22.87	+28 34.4	1.581	2.546	5.5	18.2
2 1	7 15.04	+28 42.9	1.635	2.559	9.6	18.4
2 11	7 9.58	+28 40.7	1.712	2.572	13.2	18.7
2 21	7 7.01	+28 29.8	1.810	2.587	16.3	18.9

123332 2000 VQ_{41} 1 12.3 309°.65 1°.8/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.49	+16 43.7	1.787	2.638	13.1	19.6
12 23	7 49.59	+16 38.5	1.710	2.630	9.4	19.4
1 2	7 41.48	+16 40.7	1.657	2.621	5.3	19.1
1 12	7 32.07	+16 48.8	1.633	2.614	1.9	18.9
1 22	7 22.49	+17 0.6	1.636	2.606	4.7	19.1
2 1	7 13.95	+17 14.1	1.668	2.598	8.9	19.3
2 11	7 7.47	+17 27.5	1.724	2.591	12.8	19.5
2 21	7 3.67	+17 39.7	1.802	2.584	16.1	19.7

309439 2007 UA_{31} 1 12.3 50°.31 2°.7/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.62	+25 23.1	1.450	2.316	14.7	20.4
12 23	7 52.20	+26 22.2	1.393	2.322	10.3	20.1
1 2	7 42.96	+27 23.0	1.361	2.329	5.6	19.9
1 12	7 32.11	+28 18.2	1.356	2.336	2.7	19.7
1 22	7 21.19	+29 1.5	1.379	2.343	6.2	19.9
2 1	7 11.79	+29 29.9	1.427	2.350	10.8	20.2
2 11	7 5.16	+29 43.7	1.499	2.358	14.9	20.5
2 21	7 1.94	+29 45.4	1.591	2.366	18.2	20.7

464574 2016 CG_{69} 1 12.3 155°.62 1°.6/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.83	+23 57.0	2.303	3.151	10.7	20.7
12 23	7 50.20	+24 55.9	2.236	3.157	7.4	20.5
1 2	7 41.68	+25 56.9	2.196	3.162	4.0	20.3
1 12	7 32.08	+26 55.3	2.187	3.167	1.6	20.1
1 22	7 22.36	+27 46.8	2.209	3.172	4.3	20.3
2 1	7 13.52	+28 28.6	2.260	3.176	7.8	20.5
2 11	7 6.44	+29 0.0	2.339	3.180	10.8	20.7
2 21	7 1.67	+29 21.6	2.440	3.184	13.4	20.9

83244 2001 RH_{56} 1 12.3 38°.89 2°.4/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.82	+12 27.8	2.114	2.951	11.9	19.1
12 23	7 47.39	+12 52.6	2.045	2.955	8.7	18.9
1 2	7 40.21	+13 28.5	2.002	2.960	5.2	18.7
1 12	7 32.05	+14 13.3	1.987	2.965	2.5	18.5
1 22	7 23.81	+15 3.7	2.002	2.970	4.2	18.6
2 1	7 16.42	+15 56.1	2.046	2.975	7.6	18.9
2 11	7 10.71	+16 47.2	2.117	2.981	10.9	19.1
2 21	7 7.18	+17 34.7	2.211	2.986	13.7	19.3

221361 2005 WQ_{154} 1 12.3 147°.41 1°.4/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.75	+24 4.6	1.973	2.828	11.9	20.3
12 23	7 50.34	+24 41.6	1.906	2.830	8.3	20.0
1 2	7 41.83	+25 20.3	1.864	2.832	4.4	19.8
1 12	7 32.10	+25 56.4	1.852	2.833	1.4	19.6
1 22	7 22.27	+26 26.1	1.869	2.835	4.6	19.8
2 1	7 13.51	+26 47.2	1.914	2.837	8.5	20.1
2 11	7 6.78	+26 59.3	1.986	2.838	12.0	20.3
2 21	7 2.66	+27 3.5	2.079	2.840	14.9	20.5

320159 2007 FJ_{33} 1 12.3 189°.14 0°.4/12.5 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.91	+19 28.6	2.506	3.347	10.2	22.3
12 23	7 49.38	+19 43.5	2.429	3.346	7.2	22.1
1 2	7 41.20	+20 2.2	2.379	3.344	3.8	21.9
1 12	7 32.09	+20 22.5	2.359	3.342	0.4	21.6
1 22	7 22.88	+20 42.2	2.370	3.339	3.5	21.8
2 1	7 14.46	+20 59.5	2.412	3.336	6.9	22.0
2 11	7 7.58	+21 13.5	2.481	3.333	10.0	22.2
2 21	7 2.76	+21 24.0	2.574	3.328	12.5	22.4

31001 1995 VG_{14} 1 12.3 170°.41 3°.0/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.91	+11 4.2	2.689	3.511	10.1	19.6
12 23	7 47.13	+10 51.4	2.614	3.513	7.5	19.5
1 2	7 39.98	+10 46.8	2.565	3.515	4.9	19.3
1 12	7 32.06	+10 50.1	2.546	3.516	3.1	19.2
1 22	7 24.09	+11 0.3	2.557	3.517	4.1	19.2
2 1	7 16.81	+11 15.9	2.598	3.518	6.7	19.4
2 11	7 10.86	+11 35.0	2.667	3.519	9.3	19.6
2 21	7 6.66	+11 55.8	2.759	3.519	11.6	19.7

429016 2009 BY_{113} 1 12.3 48°.54 1°.6/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 56.92	+25 51.0	1.883	2.741	12.2	20.8
12 23	7 50.33	+26 4.7	1.834	2.759	8.5	20.6
1 2	7 41.71	+26 17.2	1.811	2.778	4.5	20.4
1 12	7 32.10	+26 25.2	1.816	2.797	1.6	20.2
1 22	7 22.66	+26 26.3	1.850	2.817	4.6	20.5
2 1	7 14.49	+26 19.9	1.912	2.836	8.4	20.8
2 11	7 8.48	+26 7.0	2.000	2.856	11.8	21.0
2 21	7 5.07	+25 49.0	2.109	2.876	14.6	21.2

249561 4547 P–L 1 12.3 78°.04 8°.4/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.78	+42 31.4	1.684	2.520	14.5	20.0
12 23	7 57.78	+43 30.6	1.647	2.541	11.5	19.8
1 2	7 45.74	+44 11.9	1.634	2.562	9.1	19.7
1 12	7 32.22	+44 27.3	1.647	2.583	8.4	19.7
1 22	7 19.07	+44 13.9	1.687	2.604	9.8	19.9
2 1	7 8.04	+43 34.4	1.753	2.624	12.3	20.0
2 11	7 0.31	+42 35.4	1.841	2.645	14.9	20.3
2 21	6 56.31	+41 24.6	1.948	2.665	17.2	20.5

301184 2008 YW_{145} 1 12.3 39°.75 0°.0/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.56	+20 47.5	1.186	2.058	16.8	21.0
12 23	7 52.24	+21 1.2	1.141	2.073	11.8	20.8
1 2	7 42.96	+21 21.0	1.119	2.088	6.1	20.5
1 12	7 32.15	+21 42.0	1.121	2.104	0.2	20.1
1 22	7 21.53	+22 0.2	1.149	2.121	5.7	20.6
2 1	7 12.77	+22 12.8	1.203	2.138	11.0	20.9
2 11	7 7.10	+22 19.5	1.278	2.156	15.6	21.3
2 21	7 4.99	+22 20.5	1.373	2.175	19.3	21.6

254035 2004 FT_{143} 1 12.3 311°.80 7°.6/ 9.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.81	+37 2.2	1.563	2.421	14.3	19.5
12 23	7 53.50	+38 28.9	1.493	2.407	11.1	19.3
1 2	7 43.91	+39 47.4	1.448	2.393	8.3	19.1
1 12	7 32.18	+40 47.1	1.428	2.379	7.7	19.0
1 22	7 20.02	+41 20.6	1.434	2.366	9.8	19.1
2 1	7 9.33	+41 25.9	1.466	2.354	13.2	19.3
2 11	7 1.69	+41 6.5	1.518	2.341	16.6	19.4
2 21	6 57.92	+40 28.5	1.589	2.330	19.6	19.6

13213 Maclaurin 1 12.3 307°.10 1°.6/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.43	+22 56.5	1.298	2.169	15.8	17.6
12 23	7 52.48	+23 40.1	1.228	2.159	11.2	17.3
1 2	7 43.34	+24 29.6	1.180	2.149	5.9	17.0
1 12	7 32.17	+25 18.3	1.157	2.140	1.6	16.7
1 22	7 20.64	+25 59.5	1.162	2.131	6.2	16.9
2 1	7 10.59	+26 29.1	1.191	2.122	11.7	17.2
2 11	7 3.52	+26 46.1	1.243	2.114	16.5	17.5
2 21	7 0.25	+26 52.1	1.313	2.105	20.5	17.7

492413 2014 KO_{80} 1 12.3 167°.89 3°.7/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.90	+29 9.6	1.743	2.598	13.2	21.8
12 23	7 54.29	+30 7.3	1.680	2.601	9.5	21.6
1 2	7 44.02	+31 2.4	1.643	2.605	5.6	21.4
1 12	7 32.19	+31 47.9	1.633	2.607	3.8	21.3
1 22	7 20.24	+32 18.6	1.653	2.609	6.4	21.5
2 1	7 9.66	+32 32.5	1.701	2.611	10.3	21.7
2 11	7 1.66	+32 31.5	1.773	2.612	13.9	21.9
2 21	6 56.87	+32 18.8	1.865	2.613	16.9	22.1

39225 2000 YD_{26} 1 12.3 200°.14 1°.3/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.70	+24 13.1	2.125	2.977	11.3	19.8
12 23	7 50.23	+24 41.6	2.052	2.975	7.9	19.6
1 2	7 41.75	+25 11.3	2.006	2.973	4.2	19.4
1 12	7 32.13	+25 38.4	1.989	2.971	1.3	19.1
1 22	7 22.40	+25 59.8	2.002	2.969	4.3	19.4
2 1	7 13.64	+26 13.8	2.045	2.966	8.1	19.6
2 11	7 6.78	+26 20.1	2.113	2.964	11.5	19.8
2 21	7 2.38	+26 19.6	2.203	2.961	14.3	20.0

136298 2004 BP_{9} 1 12.3 66°.21 0°.6/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.87	+17 39.0	1.519	2.376	14.7	19.6
12 23	7 51.33	+18 21.7	1.471	2.395	10.3	19.4
1 2	7 42.38	+19 13.5	1.447	2.414	5.5	19.2
1 12	7 32.15	+20 9.2	1.450	2.433	0.7	18.9
1 22	7 22.01	+21 3.3	1.481	2.452	4.8	19.2
2 1	7 13.30	+21 51.7	1.540	2.471	9.5	19.5
2 11	7 7.07	+22 31.9	1.624	2.491	13.5	19.8
2 21	7 3.85	+23 3.5	1.728	2.510	16.7	20.1

429321 2010 EL_{84} 1 12.3 287°.57 0°.3/12.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.51	+21 19.4	2.192	3.043	11.0	21.5
12 23	7 48.75	+21 41.7	2.102	3.025	7.8	21.3
1 2	7 41.03	+22 8.0	2.039	3.006	4.1	21.0
1 12	7 32.12	+22 35.1	2.005	2.988	0.3	20.7
1 22	7 22.95	+23 0.1	2.001	2.970	4.0	20.9
2 1	7 14.56	+23 20.8	2.026	2.952	7.9	21.1
2 11	7 7.88	+23 36.2	2.077	2.934	11.4	21.3
2 21	7 3.54	+23 46.0	2.150	2.915	14.4	21.5

35554 1998 FL_{118} 1 12.3 235°.81 2°.9/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 58.57	+29 31.3	2.103	2.955	11.4	19.1
12 23	7 51.64	+29 58.5	2.028	2.948	8.2	18.9
1 2	7 42.54	+30 22.3	1.978	2.940	4.8	18.6
1 12	7 32.17	+30 38.3	1.957	2.933	3.0	18.5
1 22	7 21.67	+30 43.4	1.966	2.925	5.3	18.6
2 1	7 12.23	+30 36.6	2.004	2.917	8.8	18.8
2 11	7 4.86	+30 19.5	2.067	2.909	12.1	19.0
2 21	7 0.14	+29 54.4	2.152	2.900	14.9	19.2

290163 2005 RT_{11} 1 12.3 112°.03 3°.6/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 51.54	+ 8 21.4	2.692	3.507	10.3	20.5
12 23	7 46.18	+ 8 16.5	2.621	3.513	7.8	20.4
1 2	7 39.50	+ 8 22.1	2.576	3.519	5.3	20.2
1 12	7 32.09	+ 8 37.7	2.559	3.524	3.6	20.1
1 22	7 24.64	+ 9 1.7	2.573	3.530	4.4	20.2
2 1	7 17.85	+ 9 32.3	2.617	3.535	6.7	20.3
2 11	7 12.36	+10 6.9	2.687	3.540	9.2	20.5
2 21	7 8.57	+10 43.1	2.782	3.546	11.5	20.7

55297 2001 SO_{44} 1 12.3 14°.23 1°.5/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.57	+23 21.2	1.565	2.430	13.9	18.8
12 23	7 50.62	+24 1.4	1.503	2.431	9.7	18.5
1 2	7 42.13	+24 44.9	1.464	2.433	5.1	18.3
1 12	7 32.16	+25 26.5	1.453	2.435	1.5	18.0
1 22	7 22.10	+26 1.2	1.470	2.438	5.3	18.3
2 1	7 13.34	+26 26.0	1.513	2.441	9.9	18.6
2 11	7 7.07	+26 40.5	1.581	2.445	13.9	18.8
2 21	7 3.88	+26 45.7	1.669	2.449	17.3	19.1

75090 1999 VP_{31} 1 12.3 262°.30 1°.5/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.70	+17 54.9	1.425	2.282	15.4	19.6
12 23	7 53.09	+17 55.9	1.348	2.271	11.1	19.3
1 2	7 43.56	+18 5.3	1.294	2.260	6.1	19.0
1 12	7 32.21	+18 20.3	1.267	2.249	1.5	18.7
1 22	7 20.54	+18 37.5	1.267	2.238	5.5	18.9
2 1	7 10.19	+18 54.3	1.294	2.226	10.7	19.2
2 11	7 2.53	+19 8.9	1.344	2.215	15.5	19.4
2 21	6 58.34	+19 20.5	1.414	2.203	19.4	19.6

191977 2005 WW_{58} 1 12.3 110°.28 2°.5/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.64	+14 56.8	1.630	2.471	14.6	20.4
12 23	7 53.74	+14 52.2	1.579	2.492	10.5	20.2
1 2	7 43.56	+14 57.2	1.552	2.513	6.1	20.0
1 12	7 32.22	+15 9.7	1.553	2.533	2.6	19.9
1 22	7 21.04	+15 27.1	1.584	2.552	5.1	20.1
2 1	7 11.33	+15 46.8	1.643	2.570	9.3	20.3
2 11	7 4.06	+16 6.8	1.727	2.588	13.1	20.6
2 21	6 59.72	+16 25.5	1.832	2.605	16.2	20.9

245784 2006 HL_{3} 1 12.3 151°.08 1°.1/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.52	+22 40.0	1.803	2.656	12.9	21.3
12 23	7 52.41	+23 19.1	1.739	2.663	9.0	21.0
1 2	7 42.97	+24 1.4	1.701	2.669	4.7	20.8
1 12	7 32.21	+24 41.9	1.692	2.674	1.1	20.5
1 22	7 21.37	+25 16.4	1.711	2.679	4.8	20.8
2 1	7 11.74	+25 42.3	1.760	2.684	9.0	21.1
2 11	7 4.39	+25 59.0	1.834	2.688	12.8	21.3
2 21	6 59.91	+26 7.5	1.929	2.691	15.9	21.5

423112 2004 BB_{79} 1 12.3 219°.63 2°.7/11.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.67	+31 11.1	2.700	3.542	9.4	21.1
12 23	7 50.62	+31 23.7	2.620	3.535	6.8	20.9
1 2	7 41.87	+31 31.6	2.568	3.528	4.1	20.8
1 12	7 32.18	+31 31.7	2.547	3.520	2.7	20.6
1 22	7 22.43	+31 22.4	2.556	3.512	4.5	20.8
2 1	7 13.55	+31 3.3	2.596	3.503	7.3	20.9
2 11	7 6.31	+30 35.9	2.662	3.495	10.0	21.1
2 21	7 1.22	+30 2.3	2.752	3.486	12.3	21.2

135747 2002 QV_{7} 1 12.3 59°.40 1°.6/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.75	+13 18.7	1.459	2.309	15.6	19.0
12 23	7 51.31	+14 34.5	1.412	2.331	11.1	18.8
1 2	7 42.42	+16 5.6	1.390	2.354	6.1	18.6
1 12	7 32.19	+17 45.2	1.395	2.376	1.7	18.3
1 22	7 22.03	+19 24.9	1.428	2.399	4.9	18.6
2 1	7 13.29	+20 57.6	1.490	2.422	9.6	18.9
2 11	7 7.07	+22 18.5	1.577	2.445	13.7	19.2
2 21	7 3.91	+23 25.8	1.685	2.469	17.0	19.5

160422 2005 CD_{22} 1 12.3 244°.19 0°.7/12.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.14	+17 15.2	2.187	3.032	11.3	20.2
12 23	7 48.39	+17 55.2	2.111	3.030	8.0	20.0
1 2	7 40.81	+18 42.9	2.061	3.027	4.3	19.8
1 12	7 32.15	+19 35.1	2.041	3.024	0.7	19.5
1 22	7 23.33	+20 27.8	2.051	3.021	3.8	19.7
2 1	7 15.31	+21 17.7	2.090	3.018	7.6	19.9
2 11	7 8.97	+22 2.4	2.156	3.015	11.0	20.1
2 21	7 4.87	+22 40.5	2.245	3.011	13.8	20.3

243389 2008 YU_{90} 1 12.3 251°.65 0°.1/12.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 53.99	+20 34.5	2.381	3.229	10.4	21.1
12 23	7 48.19	+21 0.6	2.301	3.222	7.3	20.9
1 2	7 40.68	+21 30.7	2.248	3.215	3.8	20.6
1 12	7 32.15	+22 2.0	2.224	3.208	0.1	20.3
1 22	7 23.48	+22 31.7	2.231	3.201	3.6	20.6
2 1	7 15.57	+22 57.5	2.268	3.193	7.2	20.8
2 11	7 9.23	+23 18.4	2.331	3.186	10.4	21.0
2 21	7 5.00	+23 33.9	2.417	3.178	13.1	21.2

344227 2001 RA_{146} 1 12.3 81°.81 0°.2/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.84	+20 38.4	2.283	3.130	10.8	20.7
12 23	7 49.30	+20 45.2	2.230	3.150	7.5	20.6
1 2	7 41.13	+20 54.8	2.203	3.170	3.9	20.4
1 12	7 32.16	+21 5.0	2.206	3.190	0.2	20.1
1 22	7 23.30	+21 13.8	2.240	3.209	3.6	20.4
2 1	7 15.43	+21 20.2	2.303	3.229	7.1	20.7
2 11	7 9.28	+21 23.5	2.393	3.248	10.1	20.9
2 21	7 5.29	+21 23.8	2.505	3.267	12.7	21.1

57655 2001 TU_{228} 1 12.3 192°.71 1°.8/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.12	+28 28.2	2.831	3.673	9.1	18.8
12 23	7 50.11	+28 31.8	2.754	3.671	6.4	18.6
1 2	7 41.56	+28 32.2	2.706	3.669	3.6	18.4
1 12	7 32.18	+28 27.1	2.688	3.666	1.8	18.3
1 22	7 22.79	+28 15.3	2.702	3.663	3.8	18.4
2 1	7 14.23	+27 56.4	2.746	3.660	6.6	18.6
2 11	7 7.19	+27 31.7	2.819	3.657	9.3	18.8
2 21	7 2.13	+27 2.5	2.915	3.653	11.6	18.9

284339 2006 RG_{41} 1 12.3 205°.63 7°.9/ 7.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.82	+52 52.4	3.089	3.864	10.1	21.5
12 23	7 56.69	+53 46.5	3.028	3.858	8.9	21.4
1 2	7 45.17	+54 24.7	2.992	3.852	8.0	21.4
1 12	7 32.30	+54 41.5	2.982	3.845	8.0	21.4
1 22	7 19.37	+54 34.5	3.000	3.838	8.7	21.4
2 1	7 7.73	+54 4.4	3.043	3.831	9.9	21.5
2 11	6 58.45	+53 15.0	3.109	3.823	11.3	21.6
2 21	6 52.11	+52 11.6	3.195	3.814	12.7	21.7

463364 2012 TR_{105} 1 12.3 189°.23 7°.7/ 7.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.21	+52 25.0	3.161	3.937	9.9	22.2
12 23	7 56.23	+53 24.5	3.104	3.936	8.6	22.1
1 2	7 44.92	+54 8.6	3.073	3.934	7.8	22.1
1 12	7 32.29	+54 32.1	3.068	3.932	7.8	22.1
1 22	7 19.58	+54 32.4	3.091	3.929	8.5	22.1
2 1	7 8.07	+54 10.3	3.139	3.925	9.7	22.2
2 11	6 58.83	+53 29.1	3.210	3.921	11.1	22.3
2 21	6 52.44	+52 33.9	3.301	3.917	12.4	22.4

144481 2004 EV_{58} 1 12.3 272°.03 4°.0/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.17	+ 9 53.9	2.367	3.189	11.3	19.6
12 23	7 48.22	+ 9 17.4	2.286	3.183	8.6	19.4
1 2	7 40.66	+ 8 50.1	2.231	3.176	5.8	19.2
1 12	7 32.17	+ 8 32.6	2.205	3.170	4.1	19.1
1 22	7 23.59	+ 8 24.8	2.208	3.164	5.1	19.1
2 1	7 15.77	+ 8 25.7	2.241	3.158	7.8	19.3
2 11	7 9.45	+ 8 33.4	2.300	3.151	10.6	19.5
2 21	7 5.14	+ 8 46.0	2.382	3.145	13.2	19.6

183370 2002 XE_{17} 1 12.3 21°.78 9°.9/ 6.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.41	+41 4.9	1.563	2.412	14.8	19.5
12 23	7 55.61	+43 33.5	1.516	2.414	12.0	19.3
1 2	7 45.16	+45 48.8	1.493	2.417	10.2	19.2
1 12	7 32.31	+47 37.3	1.498	2.421	10.2	19.3
1 22	7 18.95	+48 50.0	1.527	2.425	12.0	19.4
2 1	7 7.23	+49 25.0	1.581	2.429	14.7	19.5
2 11	6 58.92	+49 27.6	1.655	2.434	17.4	19.7
2 21	6 54.88	+49 5.9	1.745	2.439	19.7	19.9

15822 1994 TV_{15} 1 12.3 125°.77 17°.4/19.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.13	−16 0.3	1.295	2.023	23.6	17.8
12 23	7 52.63	−17 21.4	1.244	2.031	21.4	17.7
1 2	7 43.27	−17 59.3	1.208	2.039	19.3	17.5
1 12	7 32.25	−17 46.0	1.190	2.047	17.8	17.5
1 22	7 21.12	−16 40.6	1.192	2.054	17.5	17.5
2 1	7 11.48	−14 49.0	1.213	2.060	18.3	17.5
2 11	7 4.63	−12 24.3	1.255	2.066	20.1	17.7
2 21	7 1.23	− 9 41.4	1.313	2.072	22.2	17.8

27817 1993 TO_{17} 1 12.3 39°.71 2°.3/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.15	+25 54.1	1.591	2.454	13.8	19.0
12 23	7 51.69	+26 28.5	1.531	2.459	9.7	18.8
1 2	7 42.68	+27 2.9	1.497	2.464	5.3	18.6
1 12	7 32.23	+27 31.9	1.489	2.470	2.3	18.4
1 22	7 21.76	+27 51.3	1.509	2.475	5.6	18.6
2 1	7 12.70	+27 59.2	1.557	2.481	10.0	18.9
2 11	7 6.18	+27 56.6	1.628	2.487	13.9	19.1
2 21	7 2.79	+27 45.4	1.720	2.494	17.1	19.4

274864 2009 RG_{50} 1 12.3 330°.72 3°.0/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 57.48	+28 17.0	1.757	2.617	12.8	20.9
12 23	7 51.18	+28 52.5	1.688	2.613	9.1	20.6
1 2	7 42.42	+29 25.9	1.644	2.609	5.2	20.4
1 12	7 32.23	+29 52.1	1.628	2.605	3.0	20.2
1 22	7 21.90	+30 6.8	1.640	2.601	5.8	20.4
2 1	7 12.81	+30 8.7	1.679	2.598	9.8	20.6
2 11	7 6.08	+29 58.8	1.743	2.595	13.4	20.9
2 21	7 2.33	+29 39.8	1.827	2.592	16.6	21.1

246753 2009 BJ_{149} 1 12.3 298°.45 0°.5/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.45	+20 9.9	1.538	2.397	14.4	20.8
12 23	7 51.98	+20 12.6	1.467	2.392	10.2	20.6
1 2	7 42.88	+20 20.6	1.420	2.388	5.4	20.3
1 12	7 32.25	+20 30.7	1.401	2.384	0.6	19.9
1 22	7 21.46	+20 39.9	1.409	2.380	5.0	20.2
2 1	7 11.99	+20 46.4	1.444	2.376	9.9	20.5
2 11	7 5.03	+20 49.4	1.503	2.372	14.3	20.8
2 21	7 1.24	+20 48.9	1.583	2.368	17.9	21.0

27390 Kyledavis 1 12.3 77°.62 3°.7/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.76	+29 34.4	1.336	2.199	15.9	18.3
12 23	7 56.48	+29 56.2	1.292	2.217	11.3	18.1
1 2	7 45.15	+30 12.0	1.271	2.235	6.5	17.9
1 12	7 32.31	+30 15.4	1.276	2.253	3.7	17.7
1 22	7 19.81	+30 3.5	1.308	2.271	6.8	18.0
2 1	7 9.39	+29 37.2	1.367	2.289	11.3	18.3
2 11	7 2.25	+29 0.5	1.449	2.306	15.4	18.6
2 21	6 58.82	+28 18.0	1.550	2.324	18.7	18.8

285047 2011 FG_{147} 1 12.3 284°.07 4°.8/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.64	+ 9 59.7	2.017	2.843	12.9	20.4
12 23	7 50.29	+ 9 8.9	1.924	2.822	9.9	20.2
1 2	7 41.90	+ 8 27.3	1.856	2.802	6.8	20.0
1 12	7 32.22	+ 7 56.6	1.816	2.781	4.9	19.8
1 22	7 22.27	+ 7 37.4	1.805	2.760	6.1	19.9
2 1	7 13.13	+ 7 29.4	1.823	2.739	9.3	20.0
2 11	7 5.77	+ 7 30.9	1.866	2.718	12.7	20.2
2 21	7 0.85	+ 7 39.4	1.931	2.697	15.8	20.3

187263 2005 TH_{1} 1 12.3 54°.42 6°.8/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.53	+ 4 9.8	1.589	2.409	16.0	19.9
12 23	7 49.51	+ 3 49.2	1.541	2.429	12.5	19.7
1 2	7 41.39	+ 3 49.5	1.515	2.449	9.1	19.6
1 12	7 32.20	+ 4 10.9	1.514	2.470	6.9	19.5
1 22	7 23.12	+ 4 50.9	1.540	2.490	7.5	19.6
2 1	7 15.31	+ 5 44.6	1.593	2.511	10.3	19.8
2 11	7 9.68	+ 6 46.3	1.670	2.532	13.4	20.0
2 21	7 6.71	+ 7 50.3	1.768	2.553	16.3	20.2

124730 2001 SV_{173} 1 12.3 350°.45 4°.8/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.35	+29 32.2	1.351	2.220	15.4	19.3
12 23	7 53.84	+30 42.5	1.291	2.218	11.1	19.1
1 2	7 44.06	+31 50.7	1.254	2.217	6.8	18.8
1 12	7 32.30	+32 47.3	1.243	2.216	4.9	18.7
1 22	7 20.33	+33 25.0	1.259	2.216	7.9	18.9
2 1	7 10.02	+33 41.2	1.300	2.215	12.3	19.1
2 11	7 2.86	+33 38.1	1.363	2.215	16.4	19.4
2 21	6 59.57	+33 20.3	1.444	2.215	19.9	19.6

36189 1999 TS_{37} 1 12.3 243°.88 0°.1/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.12	+21 38.2	2.222	3.068	11.0	19.1
12 23	7 50.51	+21 43.9	2.136	3.056	7.8	18.8
1 2	7 41.96	+21 51.9	2.076	3.043	4.1	18.6
1 12	7 32.24	+21 59.8	2.046	3.030	0.1	18.2
1 22	7 22.34	+22 5.4	2.047	3.016	3.9	18.5
2 1	7 13.30	+22 7.5	2.077	3.002	7.8	18.7
2 11	7 6.03	+22 5.8	2.134	2.988	11.2	18.9
2 21	7 1.12	+22 0.6	2.213	2.973	14.2	19.1

78573 2002 RT_{213} 1 12.3 103°.28 1°.8/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.19	+25 0.8	2.292	3.142	10.6	19.4
12 23	7 49.73	+25 54.8	2.234	3.156	7.4	19.2
1 2	7 41.48	+26 49.5	2.204	3.170	4.0	19.0
1 12	7 32.23	+27 40.4	2.204	3.184	1.8	18.9
1 22	7 22.96	+28 23.7	2.235	3.198	4.4	19.1
2 1	7 14.63	+28 57.0	2.295	3.211	7.7	19.3
2 11	7 8.07	+29 20.2	2.382	3.224	10.6	19.5
2 21	7 3.79	+29 34.0	2.491	3.237	13.1	19.7

148922 2001 XW_{72} 1 12.3 120°.20 1°.2/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.40	+17 27.6	1.883	2.731	12.7	20.3
12 23	7 50.11	+17 39.7	1.816	2.735	9.0	20.1
1 2	7 41.76	+17 58.8	1.773	2.738	4.9	19.8
1 12	7 32.25	+18 22.5	1.759	2.742	1.2	19.6
1 22	7 22.67	+18 47.7	1.775	2.745	4.3	19.8
2 1	7 14.15	+19 12.0	1.819	2.748	8.4	20.1
2 11	7 7.63	+19 33.6	1.888	2.751	12.1	20.3
2 21	7 3.68	+19 51.6	1.980	2.754	15.1	20.5

30904 1993 FV_{41} 1 12.3 305°.49 1°.6/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 53.45	+15 55.6	2.246	3.088	11.1	19.5
12 23	7 47.84	+16 1.8	2.169	3.085	8.0	19.3
1 2	7 40.52	+16 15.0	2.119	3.081	4.5	19.1
1 12	7 32.22	+16 33.6	2.097	3.078	1.7	18.9
1 22	7 23.81	+16 55.5	2.105	3.075	3.9	19.0
2 1	7 16.20	+17 18.6	2.143	3.071	7.4	19.2
2 11	7 10.21	+17 41.0	2.207	3.068	10.6	19.4
2 21	7 6.34	+18 1.4	2.294	3.065	13.4	19.6

451870 2014 HK_{23} 1 12.3 218°.11 0°.4/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.76	+20 59.9	1.710	2.561	13.6	22.2
12 23	7 53.55	+21 29.6	1.631	2.553	9.6	21.9
1 2	7 43.74	+22 4.6	1.578	2.545	5.1	21.6
1 12	7 32.32	+22 40.5	1.553	2.536	0.4	21.3
1 22	7 20.62	+23 12.7	1.557	2.527	4.9	21.6
2 1	7 10.07	+23 38.3	1.590	2.516	9.6	21.8
2 11	7 1.90	+23 56.3	1.648	2.505	13.8	22.1
2 21	6 56.82	+24 7.2	1.727	2.494	17.3	22.3

94556 Janstarý 1 12.3 217°.99 0°.2/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.30	+20 27.6	1.851	2.699	12.9	20.0
12 23	7 53.04	+20 41.1	1.771	2.691	9.1	19.7
1 2	7 43.40	+20 59.0	1.716	2.682	4.8	19.4
1 12	7 32.32	+21 18.1	1.689	2.673	0.2	19.0
1 22	7 21.00	+21 35.1	1.693	2.663	4.5	19.4
2 1	7 10.76	+21 48.0	1.726	2.652	9.0	19.6
2 11	7 2.71	+21 56.1	1.784	2.640	13.0	19.8
2 21	6 57.51	+21 59.7	1.864	2.628	16.3	20.0

146535 2001 SY_{226} 1 12.3 174°.87 0°.6/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.33	+21 53.3	1.883	2.736	12.4	20.6
12 23	7 50.86	+22 22.9	1.814	2.737	8.7	20.4
1 2	7 42.20	+22 56.3	1.770	2.738	4.5	20.1
1 12	7 32.28	+23 29.3	1.755	2.738	0.6	19.8
1 22	7 22.24	+23 58.4	1.769	2.738	4.5	20.1
2 1	7 13.29	+24 21.0	1.812	2.738	8.7	20.4
2 11	7 6.44	+24 36.3	1.881	2.738	12.3	20.6
2 21	7 2.27	+24 44.8	1.971	2.738	15.4	20.8

20832 Santhikodali 1 12.3 62°.77 3°.0/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.52	+28 8.2	1.748	2.607	12.9	18.6
12 23	7 51.75	+28 48.6	1.697	2.621	9.1	18.4
1 2	7 42.65	+29 26.4	1.671	2.636	5.2	18.2
1 12	7 32.31	+29 56.3	1.673	2.650	3.0	18.0
1 22	7 22.05	+30 14.3	1.704	2.665	5.7	18.2
2 1	7 13.18	+30 19.4	1.762	2.680	9.5	18.5
2 11	7 6.70	+30 12.9	1.845	2.695	12.9	18.7
2 21	7 3.15	+29 57.5	1.948	2.710	15.8	19.0

339592 2005 MU_{50} 1 12.3 279°.49 1°.1/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.07	+23 29.0	1.325	2.191	15.8	20.8
12 23	7 54.29	+23 40.4	1.254	2.183	11.2	20.5
1 2	7 44.31	+23 54.2	1.206	2.175	5.9	20.2
1 12	7 32.38	+24 5.5	1.184	2.167	1.1	19.8
1 22	7 20.19	+24 10.2	1.189	2.159	5.9	20.1
2 1	7 9.58	+24 6.7	1.219	2.151	11.4	20.4
2 11	7 2.01	+23 55.7	1.273	2.143	16.2	20.7
2 21	6 58.20	+23 39.2	1.345	2.135	20.2	20.9

409448 2005 QV_{100} 1 12.3 75°.13 1°.8/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.41	+16 8.4	1.756	2.601	13.6	21.5
12 23	7 51.39	+16 15.4	1.710	2.627	9.6	21.3
1 2	7 42.34	+16 30.5	1.689	2.653	5.4	21.1
1 12	7 32.31	+16 51.1	1.697	2.678	1.8	20.9
1 22	7 22.46	+17 14.5	1.734	2.703	4.5	21.1
2 1	7 13.93	+17 37.9	1.799	2.728	8.5	21.4
2 11	7 7.59	+17 59.6	1.890	2.753	12.0	21.7
2 21	7 3.88	+18 18.5	2.002	2.777	15.0	22.0

304862 2007 RM_{97} 1 12.3 131°.57 1°.0/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.71	+23 2.8	1.932	2.780	12.4	21.8
12 23	7 53.06	+23 35.8	1.875	2.796	8.7	21.6
1 2	7 43.28	+24 10.8	1.844	2.810	4.5	21.4
1 12	7 32.35	+24 43.2	1.842	2.824	1.0	21.1
1 22	7 21.45	+25 9.4	1.870	2.838	4.5	21.4
2 1	7 11.79	+25 27.7	1.928	2.850	8.5	21.7
2 11	7 4.31	+25 37.8	2.012	2.862	12.0	21.9
2 21	6 59.55	+25 41.1	2.118	2.873	14.9	22.2

177318 2003 YR_{36} 1 12.3 334°.02 2°.2/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.56	+24 55.1	1.374	2.246	15.0	19.0
12 23	7 51.08	+25 33.3	1.304	2.235	10.6	18.7
1 2	7 42.62	+26 14.2	1.257	2.226	5.7	18.4
1 12	7 32.33	+26 51.7	1.235	2.217	2.2	18.1
1 22	7 21.74	+27 19.9	1.240	2.208	6.2	18.4
2 1	7 12.57	+27 35.9	1.271	2.200	11.2	18.6
2 11	7 6.20	+27 39.6	1.324	2.194	15.7	18.9
2 21	7 3.37	+27 33.1	1.396	2.187	19.5	19.1

235519 2004 CA_3 1 12.3 355°.67 7°.1/10.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 1.43	+40 54.7	1.853	2.694	13.1	20.1
12 23	7 54.04	+41 25.7	1.791	2.692	10.3	19.9
1 2	7 43.93	+41 42.4	1.754	2.690	7.9	19.7
1 12	7 32.36	+41 38.3	1.743	2.689	7.1	19.7
1 22	7 20.88	+41 10.7	1.759	2.688	8.6	19.8
2 1	7 11.01	+40 21.2	1.801	2.687	11.2	19.9
2 11	7 3.91	+39 14.8	1.867	2.687	14.1	20.1
2 21	7 0.11	+37 57.8	1.953	2.688	16.6	20.3

129393 1362 $T\text{-}_2$ 1 12.3 43°.25 5°.2/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.03	+31 22.5	1.247	2.117	16.3	19.2
12 23	7 55.01	+32 9.6	1.198	2.125	11.8	18.9
1 2	7 44.62	+32 49.9	1.171	2.134	7.3	18.7
1 12	7 32.39	+33 14.7	1.170	2.143	5.2	18.6
1 22	7 20.27	+33 18.9	1.194	2.152	8.1	18.8
2 1	7 10.20	+33 2.6	1.243	2.162	12.5	19.1
2 11	7 3.55	+32 30.2	1.314	2.172	16.6	19.4
2 21	7 0.87	+31 47.3	1.403	2.183	20.0	19.6

370522 2003 SN_{283} 1 12.3 77°.95 0°.1/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.72	+22 18.2	1.995	2.846	11.9	20.5
12 23	7 50.87	+22 13.3	1.936	2.858	8.4	20.3
1 2	7 42.09	+22 9.9	1.903	2.870	4.3	20.1
1 12	7 32.31	+22 5.7	1.898	2.882	0.2	19.7
1 22	7 22.62	+21 59.1	1.924	2.893	4.1	20.1
2 1	7 14.09	+21 49.6	1.978	2.905	8.0	20.4
2 11	7 7.58	+21 37.2	2.059	2.917	11.4	20.6
2 21	7 3.55	+21 22.8	2.161	2.929	14.2	20.8

165759 2001 QU_{227} 1 12.3 359°.27 0°.9/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.52	+25 9.7	2.008	2.862	11.7	19.2
12 23	7 50.83	+24 54.3	1.938	2.861	8.3	19.0
1 2	7 42.11	+24 37.4	1.893	2.860	4.4	18.8
1 12	7 32.31	+24 16.8	1.877	2.860	0.9	18.5
1 22	7 22.53	+23 51.5	1.891	2.860	4.3	18.7
2 1	7 13.88	+23 21.9	1.934	2.860	8.2	19.0
2 11	7 7.26	+22 49.2	2.003	2.861	11.7	19.2
2 21	7 3.19	+22 14.8	2.094	2.862	14.6	19.4

493883 2015 XW_{139} 1 12.3 63°.83 1°.9/11.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.44	+24 14.5	1.376	2.242	15.3	21.2
12 23	7 53.41	+24 56.7	1.331	2.260	10.7	21.0
1 2	7 43.61	+25 40.5	1.311	2.279	5.7	20.7
1 12	7 32.36	+26 19.3	1.316	2.298	1.9	20.5
1 22	7 21.28	+26 48.2	1.349	2.317	5.8	20.8
2 1	7 11.95	+27 5.1	1.409	2.336	10.5	21.2
2 11	7 5.52	+27 10.6	1.492	2.355	14.6	21.5
2 21	7 2.48	+27 7.0	1.595	2.375	18.0	21.7

358086 2006 JT_{29} 1 12.3 173°.67 3°.6/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.91	+11 48.6	1.781	2.616	13.9	21.5
12 23	7 51.26	+11 41.0	1.711	2.618	10.3	21.3
1 2	7 42.42	+11 45.5	1.665	2.620	6.4	21.1
1 12	7 32.33	+12 1.0	1.647	2.621	3.7	20.9
1 22	7 22.13	+12 25.4	1.657	2.622	5.4	21.0
2 1	7 13.03	+12 55.8	1.696	2.622	9.1	21.3
2 11	7 6.01	+13 29.1	1.760	2.622	12.8	21.5
2 21	7 1.68	+14 2.4	1.846	2.622	16.0	21.7

129634 1998 HP_{43} 1 12.3 274°.10 0°.0/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 50.90	+20 46.6	3.217	4.060	8.1	20.1
12 23	7 45.76	+21 3.7	3.126	4.044	5.7	20.0
1 2	7 39.37	+21 23.4	3.062	4.029	3.0	19.8
1 12	7 32.23	+21 44.0	3.030	4.013	0.1	19.5
1 22	7 24.97	+22 3.6	3.028	3.997	2.8	19.7
2 1	7 18.22	+22 21.0	3.057	3.982	5.6	19.9
2 11	7 12.57	+22 35.2	3.115	3.966	8.1	20.0
2 21	7 8.45	+22 45.9	3.196	3.950	10.3	20.2

372684 2009 WW_{165} 1 12.3 36°.11 0°.0/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.03	+21 1.9	1.888	2.743	12.3	21.4
12 23	7 49.89	+21 15.3	1.822	2.746	8.7	21.2
1 2	7 41.69	+21 32.5	1.781	2.749	4.5	20.9
1 12	7 32.32	+21 50.4	1.768	2.752	0.1	20.6
1 22	7 22.90	+22 6.3	1.785	2.755	4.3	20.9
2 1	7 14.57	+22 18.3	1.830	2.759	8.4	21.2
2 11	7 8.27	+22 25.6	1.900	2.762	12.0	21.4
2 21	7 4.56	+22 28.4	1.992	2.766	15.1	21.6

277963 2006 SZ_{297} 1 12.3 43°.78 1°.7/11.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.56	+23 18.0	1.132	2.007	17.3	21.3
12 23	7 54.07	+23 54.0	1.080	2.013	12.2	21.0
1 2	7 44.19	+24 34.1	1.050	2.020	6.4	20.7
1 12	7 32.40	+25 11.2	1.044	2.027	1.7	20.4
1 22	7 20.61	+25 39.2	1.064	2.034	6.5	20.8
2 1	7 10.76	+25 55.2	1.109	2.042	12.0	21.1
2 11	7 4.29	+25 59.7	1.175	2.050	16.9	21.4
2 21	7 1.81	+25 54.7	1.259	2.059	20.8	21.7

283410 2000 SC_{100} 1 12.3 105°.18 0°.1/12.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 1.45	+20 40.8	1.691	2.541	13.7	21.1
12 23	7 53.67	+20 56.3	1.640	2.562	9.6	20.8
1 2	7 43.61	+21 15.7	1.615	2.582	5.0	20.6
1 12	7 32.38	+21 35.4	1.618	2.601	0.2	20.3
1 22	7 21.31	+21 52.1	1.650	2.620	4.6	20.7
2 1	7 11.69	+22 4.1	1.711	2.638	9.0	21.0
2 11	7 4.50	+22 11.0	1.798	2.656	12.8	21.2
2 21	7 0.23	+22 13.4	1.905	2.673	15.9	21.5

213645 2002 RE_{104} 1 12.3 70°.12 3°.3/11.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.58	+28 23.8	1.577	2.435	14.2	20.2
12 23	7 54.58	+29 9.0	1.541	2.465	10.0	20.0
1 2	7 44.08	+29 50.2	1.531	2.495	5.7	19.9
1 12	7 32.39	+30 20.9	1.548	2.525	3.3	19.8
1 22	7 21.04	+30 37.6	1.594	2.555	6.1	20.0
2 1	7 11.44	+30 39.8	1.667	2.584	10.0	20.3
2 11	7 4.60	+30 29.7	1.765	2.613	13.5	20.6
2 21	7 0.95	+30 10.8	1.883	2.642	16.3	20.9

225382 1999 TK_{110} 1 12.3 31°.51 10°.6/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.50	− 3 10.3	1.379	2.180	19.0	19.3
12 23	7 48.28	− 3 54.3	1.341	2.203	15.8	19.1
1 2	7 40.84	− 4 7.3	1.322	2.228	12.8	19.0
1 12	7 32.29	− 3 47.3	1.326	2.253	10.9	19.0
1 22	7 23.91	− 2 56.8	1.353	2.279	10.9	19.0
2 1	7 16.93	− 1 42.2	1.404	2.306	12.6	19.2
2 11	7 12.29	− 0 12.8	1.478	2.334	15.2	19.4
2 21	7 10.44	+ 1 22.4	1.571	2.363	17.7	19.7

206289 2003 AT_{85} 1 12.3 42°.01 0°.1/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.64	+17 20.8	1.877	2.728	12.6	19.2
12 23	7 48.90	+18 36.0	1.823	2.745	8.8	19.0
1 2	7 41.16	+20 0.2	1.795	2.762	4.6	18.8
1 12	7 32.31	+21 27.6	1.796	2.780	0.2	18.4
1 22	7 23.41	+22 52.0	1.828	2.798	4.2	18.8
2 1	7 15.56	+24 8.4	1.888	2.816	8.2	19.1
2 11	7 9.67	+25 13.9	1.975	2.835	11.7	19.4
2 21	7 6.28	+26 7.5	2.084	2.853	14.6	19.6

285310 1998 XH_4 1 12.3 31°.74 2°.1/11.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.15	+23 30.4	1.028	1.911	17.9	20.2
12 23	7 52.43	+24 17.4	0.987	1.924	12.5	19.9
1 2	7 43.32	+25 8.6	0.967	1.938	6.6	19.7
1 12	7 32.38	+25 55.7	0.971	1.953	2.1	19.4
1 22	7 21.60	+26 31.8	0.999	1.969	6.8	19.8
2 1	7 12.93	+26 53.5	1.050	1.986	12.3	20.1
2 11	7 7.72	+27 1.6	1.123	2.004	17.1	20.5
2 21	7 6.47	+26 58.3	1.213	2.022	20.9	20.8

415196 2012 GO_{25} 1 12.3 92°.68 2°.8/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.63	+13 9.6	1.891	2.731	13.0	21.0
12 23	7 49.54	+13 14.5	1.826	2.737	9.5	20.8
1 2	7 41.48	+13 30.1	1.786	2.744	5.7	20.6
1 12	7 32.32	+13 54.7	1.773	2.750	2.8	20.4
1 22	7 23.12	+14 25.7	1.789	2.757	4.7	20.6
2 1	7 14.94	+14 59.9	1.834	2.763	8.4	20.8
2 11	7 8.70	+15 34.7	1.905	2.769	11.9	21.0
2 21	7 4.92	+16 7.6	1.998	2.775	14.9	21.2

57797 2001 VX_{99} 1 12.3 42°.49 3°.6/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.96	+ 8 58.8	1.596	2.433	15.1	18.0
12 23	7 49.35	+ 9 47.0	1.535	2.443	11.2	17.8
1 2	7 41.48	+10 54.4	1.498	2.453	7.0	17.5
1 12	7 32.34	+12 17.2	1.488	2.463	3.8	17.4
1 22	7 23.10	+13 49.1	1.506	2.474	5.3	17.5
2 1	7 15.03	+15 23.2	1.553	2.485	9.3	17.8
2 11	7 9.14	+16 53.1	1.625	2.497	13.2	18.0
2 21	7 6.02	+18 14.6	1.719	2.509	16.5	18.3

34894 2012 $P\text{–}L$ 1 12.3 53°.06 5°.1/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.95	+33 12.5	1.475	2.334	14.9	18.6
12 23	7 55.62	+33 49.2	1.447	2.367	10.8	18.5
1 2	7 44.61	+34 15.8	1.442	2.400	6.9	18.3
1 12	7 32.43	+34 26.0	1.464	2.433	5.1	18.3
1 22	7 20.78	+34 17.4	1.514	2.467	7.3	18.5
2 1	7 11.18	+33 51.7	1.590	2.500	10.8	18.8
2 11	7 4.63	+33 13.4	1.689	2.534	14.2	19.1
2 21	7 1.49	+32 27.5	1.809	2.567	16.9	19.3

87878 2000 SG_{275} 1 12.3 108°.72 6°.4/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.42	+ 1 38.5	2.186	2.976	13.2	20.2
12 23	7 49.09	+ 1 17.0	2.128	2.994	10.6	20.1
1 2	7 41.13	+ 1 12.8	2.094	3.011	8.1	20.0
1 12	7 32.33	+ 1 26.5	2.087	3.028	6.5	19.9
1 22	7 23.57	+ 1 56.7	2.108	3.044	6.9	19.9
2 1	7 15.71	+ 2 40.2	2.158	3.061	8.8	20.1
2 11	7 9.51	+ 3 32.8	2.234	3.076	11.3	20.3
2 21	7 5.42	+ 4 29.9	2.333	3.091	13.6	20.5

93237 2000 SX_{149} 1 12.3 7°.51 2°.3/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 57.23	+25 2.7	1.163	2.042	16.6	18.1
12 23	7 51.74	+25 33.7	1.108	2.042	11.7	17.8
1 2	7 43.00	+26 6.6	1.074	2.044	6.3	17.5
1 12	7 32.40	+26 34.5	1.065	2.046	2.3	17.3
1 22	7 21.73	+26 52.2	1.081	2.050	6.5	17.5
2 1	7 12.85	+26 57.3	1.121	2.054	11.9	17.8
2 11	7 7.18	+26 50.9	1.182	2.060	16.6	18.1
2 21	7 5.34	+26 35.4	1.262	2.066	20.5	18.4

242448 2004 PR_{114} 1 12.3 204°.01 3°.4/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.98	+12 17.0	1.820	2.653	13.7	21.3
12 23	7 52.06	+12 10.1	1.742	2.649	10.2	21.1
1 2	7 42.90	+12 14.6	1.689	2.645	6.3	20.8
1 12	7 32.40	+12 29.5	1.664	2.639	3.5	20.6
1 22	7 21.71	+12 52.6	1.668	2.633	5.3	20.7
2 1	7 12.05	+13 21.3	1.701	2.627	9.2	21.0
2 11	7 4.48	+13 52.5	1.760	2.620	13.0	21.2
2 21	6 59.61	+14 23.9	1.840	2.612	16.2	21.4

422274 2014 SO_{152} 1 12.3 88°.41 0°.6/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.51	+22 21.5	1.756	2.611	13.1	21.4
12 23	7 51.70	+22 38.8	1.697	2.621	9.2	21.2
1 2	7 42.65	+22 58.7	1.664	2.632	4.8	20.9
1 12	7 32.39	+23 17.5	1.659	2.642	0.6	20.6
1 22	7 22.17	+23 32.1	1.683	2.653	4.6	20.9
2 1	7 13.23	+23 40.8	1.735	2.663	8.9	21.2
2 11	7 6.57	+23 43.5	1.813	2.673	12.6	21.5
2 21	7 2.72	+23 40.9	1.911	2.683	15.7	21.7

211394 2002 VK 1 12.3 151°.27 5°.9/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.92	+37 24.3	2.101	2.940	11.9	20.9
12 23	7 54.87	+38 30.0	2.045	2.948	9.1	20.7
1 2	7 44.36	+39 25.9	2.015	2.956	6.7	20.6
1 12	7 32.45	+40 5.4	2.013	2.963	6.0	20.5
1 22	7 20.48	+40 24.3	2.041	2.970	7.6	20.7
2 1	7 9.84	+40 22.2	2.096	2.976	10.2	20.8
2 11	7 1.63	+40 2.4	2.176	2.981	12.8	21.0
2 21	6 56.45	+39 29.5	2.276	2.986	15.2	21.2

421210 2013 SF_{22} 1 12.3 113°.67 6°.6/ 9.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.37	+41 4.8	2.244	3.075	11.5	21.1
12 23	7 54.36	+42 2.3	2.196	3.088	9.1	21.0
1 2	7 44.02	+42 47.4	2.173	3.102	7.1	20.9
1 12	7 32.44	+43 14.0	2.179	3.115	6.6	20.9
1 22	7 20.94	+43 19.0	2.212	3.127	7.9	21.0
2 1	7 10.81	+43 3.0	2.273	3.140	10.1	21.1
2 11	7 3.07	+42 29.8	2.359	3.152	12.4	21.3
2 21	6 58.26	+41 44.2	2.464	3.164	14.4	21.5

237629 2001 RZ_{128} 1 12.3 68°.74 4°.4/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.91	+34 0.8	2.185	3.033	11.1	20.2
12 23	7 51.12	+34 40.9	2.129	3.043	8.2	20.0
1 2	7 42.30	+35 14.0	2.100	3.053	5.5	19.9
1 12	7 32.39	+35 35.4	2.100	3.064	4.4	19.8
1 22	7 22.52	+35 42.1	2.128	3.074	6.1	20.0
2 1	7 13.82	+35 34.0	2.185	3.084	8.9	20.1
2 11	7 7.19	+35 13.0	2.266	3.094	11.6	20.3
2 21	7 3.15	+34 42.4	2.369	3.105	14.0	20.5

324469 2006 UC_{55} 1 12.3 76°.71 6°.8/ 9.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.07	+36 56.4	1.678	2.528	13.9	19.8
12 23	7 55.26	+38 16.9	1.638	2.548	10.5	19.7
1 2	7 44.62	+39 25.7	1.624	2.568	7.7	19.6
1 12	7 32.47	+40 14.4	1.636	2.588	6.9	19.5
1 22	7 20.44	+40 38.2	1.676	2.608	8.7	19.7
2 1	7 10.15	+40 37.5	1.742	2.628	11.6	19.9
2 11	7 2.78	+40 16.4	1.831	2.647	14.5	20.1
2 21	6 58.89	+39 41.1	1.939	2.667	16.9	20.4

425407 2010 CS_{138} 1 12.3 238°.86 2°.2/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.62	+13 7.7	2.283	3.117	11.2	21.0
12 23	7 48.01	+13 31.4	2.203	3.113	8.2	20.8
1 2	7 40.68	+14 5.1	2.150	3.108	4.9	20.5
1 12	7 32.36	+14 46.8	2.125	3.104	2.2	20.4
1 22	7 23.87	+15 33.5	2.131	3.099	4.0	20.5
2 1	7 16.13	+16 22.1	2.167	3.094	7.3	20.7
2 11	7 9.95	+17 9.6	2.229	3.090	10.6	20.9
2 21	7 5.86	+17 53.8	2.315	3.085	13.3	21.0

488519 2001 QX_{95} 1 12.3 161°.27 0°.9/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.86	+24 5.7	2.364	3.213	10.4	21.3
12 23	7 49.51	+24 17.0	2.293	3.214	7.3	21.1
1 2	7 41.42	+24 28.8	2.249	3.216	3.8	20.9
1 12	7 32.38	+24 38.3	2.235	3.217	0.9	20.6
1 22	7 23.31	+24 43.6	2.251	3.219	3.8	20.9
2 1	7 15.13	+24 43.6	2.297	3.220	7.3	21.1
2 11	7 8.64	+24 38.4	2.369	3.221	10.4	21.3
2 21	7 4.34	+24 28.8	2.465	3.222	13.0	21.5

459220 2012 DC_{90} 1 12.3 316°.41 2°.1/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 57.06	+22 24.1	1.598	2.460	13.8	20.5
12 23	7 51.22	+23 53.6	1.525	2.453	9.7	20.2
1 2	7 42.69	+25 31.1	1.479	2.447	5.2	19.9
1 12	7 32.43	+27 8.5	1.460	2.441	2.2	19.7
1 22	7 21.77	+28 37.5	1.470	2.435	5.9	19.9
2 1	7 12.22	+29 51.7	1.507	2.429	10.4	20.2
2 11	7 5.09	+30 48.7	1.569	2.423	14.6	20.4
2 21	7 1.18	+31 29.3	1.651	2.418	18.0	20.6

350594 2001 QU_{261} 1 12.3 72°.60 1°.1/12.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.93	+24 4.7	1.343	2.202	16.1	21.3
12 23	7 56.98	+24 9.7	1.310	2.235	11.2	21.1
1 2	7 45.33	+24 14.7	1.300	2.268	5.8	20.9
1 12	7 32.51	+24 15.3	1.317	2.300	1.1	20.7
1 22	7 20.24	+24 9.1	1.362	2.332	5.5	21.1
2 1	7 10.06	+23 56.1	1.435	2.363	10.3	21.4
2 11	7 3.01	+23 38.1	1.531	2.394	14.4	21.7
2 21	6 59.43	+23 17.2	1.648	2.424	17.6	22.0

166838 2002 VY_{120} 1 12.3 60°.87 0°.3/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.45	+21 6.6	2.095	2.944	11.5	19.6
12 23	7 49.95	+20 57.2	2.033	2.954	8.1	19.4
1 2	7 41.64	+20 50.2	1.998	2.964	4.2	19.1
1 12	7 32.39	+20 43.6	1.991	2.975	0.4	18.8
1 22	7 23.21	+20 36.2	2.015	2.985	3.9	19.2
2 1	7 15.08	+20 27.3	2.068	2.996	7.6	19.4
2 11	7 8.83	+20 16.8	2.147	3.006	11.0	19.6
2 21	7 4.92	+20 5.0	2.248	3.017	13.7	19.8

111951 2002 GY_{57} 1 12.3 97°.63 0°.4/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.07	+21 33.5	1.681	2.533	13.7	20.1
12 23	7 53.46	+21 55.1	1.632	2.554	9.6	19.9
1 2	7 43.54	+22 20.0	1.608	2.575	5.0	19.7
1 12	7 32.46	+22 44.1	1.612	2.595	0.4	19.4
1 22	7 21.53	+23 3.8	1.645	2.615	4.7	19.8
2 1	7 12.06	+23 17.3	1.707	2.634	9.0	20.1
2 11	7 5.03	+23 24.6	1.794	2.653	12.8	20.3
2 21	7 0.93	+23 26.3	1.903	2.671	15.9	20.6

96648 1999 GZ_{45} 1 12.3 205°.84 2°.3/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.36	+25 28.8	1.830	2.683	12.7	20.1
12 23	7 53.24	+26 19.1	1.756	2.679	9.0	19.9
1 2	7 43.62	+27 10.8	1.709	2.675	4.9	19.6
1 12	7 32.48	+27 58.1	1.690	2.670	2.3	19.4
1 22	7 21.10	+28 35.9	1.700	2.664	5.4	19.6
2 1	7 10.85	+29 1.5	1.740	2.658	9.5	19.9
2 11	7 2.91	+29 14.9	1.804	2.651	13.3	20.1
2 21	6 57.95	+29 17.8	1.889	2.644	16.4	20.3

329827 2004 RX_{242} 1 12.3 128°.73 2°.1/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.31	+14 31.6	1.950	2.792	12.6	20.8
12 23	7 49.37	+14 45.2	1.879	2.793	9.1	20.6
1 2	7 41.46	+15 8.5	1.833	2.794	5.3	20.4
1 12	7 32.42	+15 39.3	1.816	2.796	2.2	20.2
1 22	7 23.27	+16 14.7	1.828	2.797	4.4	20.3
2 1	7 15.08	+16 51.6	1.869	2.798	8.2	20.6
2 11	7 8.76	+17 27.3	1.935	2.799	11.8	20.8
2 21	7 4.88	+17 59.9	2.024	2.800	14.8	21.0

335953 2007 TG_{94} 1 12.3 70°.01 0°.9/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.43	+18 29.8	2.137	2.983	11.4	20.7
12 23	7 49.20	+18 31.4	2.079	2.997	8.1	20.5
1 2	7 41.25	+18 37.9	2.047	3.012	4.4	20.3
1 12	7 32.41	+18 47.3	2.044	3.027	1.0	20.1
1 22	7 23.62	+18 57.5	2.071	3.041	3.8	20.4
2 1	7 15.84	+19 7.2	2.128	3.056	7.4	20.6
2 11	7 9.84	+19 15.2	2.211	3.071	10.6	20.8
2 21	7 6.07	+19 21.1	2.316	3.086	13.3	21.0

503884 2001 SP_{152} 1 12.3 160°.11 6°.6/16.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 51.97	− 7 59.3	3.499	4.213	10.1	23.2
12 23	7 46.32	− 8 22.1	3.426	4.221	8.7	23.1
1 2	7 39.63	− 8 29.7	3.378	4.229	7.5	23.0
1 12	7 32.36	− 8 20.9	3.357	4.236	6.7	23.0
1 22	7 25.06	− 7 56.2	3.363	4.242	6.7	23.0
2 1	7 18.26	− 7 17.1	3.398	4.248	7.5	23.0
2 11	7 12.46	− 6 26.7	3.460	4.253	8.8	23.1
2 21	7 8.02	− 5 28.5	3.545	4.258	10.1	23.2

468109 2013 WO_{107} 1 12.4 14°.14 3°.1/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.58	+28 3.1	1.969	2.828	11.7	20.6
12 23	7 49.74	+29 3.2	1.905	2.829	8.3	20.4
1 2	7 41.73	+30 2.4	1.868	2.831	4.9	20.2
1 12	7 32.45	+30 55.1	1.858	2.834	3.2	20.1
1 22	7 23.04	+31 36.5	1.878	2.836	5.6	20.3
2 1	7 14.68	+32 4.2	1.926	2.839	9.1	20.5
2 11	7 8.38	+32 18.4	1.999	2.842	12.3	20.7
2 21	7 4.73	+32 21.0	2.092	2.846	15.1	20.9

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
197718 2004 PM_{8}			1 12.4 104°.40		0°.5/12.2 17	
	h m	° ′			°	m
12 13	8 2.21	+21 57.1	1.606	2.459	14.2	20.7
12 23	7 54.36	+22 14.9	1.556	2.479	9.9	20.5
1 2	7 44.07	+22 35.5	1.530	2.497	5.2	20.2
1 12	7 32.53	+22 54.8	1.533	2.516	0.5	19.9
1 22	7 21.16	+23 9.4	1.564	2.534	4.9	20.3
2 1	7 11.32	+23 17.7	1.624	2.551	9.4	20.6
2 11	7 4.06	+23 19.9	1.708	2.568	13.3	20.9
2 21	6 59.89	+23 17.0	1.814	2.584	16.5	21.1
266769 2009 SG_{158}			1 12.4 87°.38		0°.5/12.5 18	
12 13	7 57.26	+19 58.4	1.910	2.760	12.4	20.8
12 23	7 50.71	+20 2.6	1.848	2.769	8.7	20.6
1 2	7 42.13	+20 11.0	1.811	2.778	4.6	20.4
1 12	7 32.47	+20 21.0	1.803	2.787	0.5	20.1
1 22	7 22.83	+20 30.4	1.825	2.795	4.2	20.4
2 1	7 14.32	+20 37.6	1.875	2.804	8.2	20.7
2 11	7 7.84	+20 41.8	1.951	2.813	11.8	20.9
2 21	7 3.91	+20 43.1	2.049	2.821	14.8	21.1
280839 2005 UL_{160}			1 12.4 159°.66		1°.4/12.9 18	
12 13	8 0.18	+16 2.1	1.697	2.542	14.0	21.3
12 23	7 53.03	+16 34.1	1.631	2.548	10.0	21.0
1 2	7 43.47	+17 16.4	1.590	2.553	5.5	20.8
1 12	7 32.53	+18 4.9	1.576	2.558	1.4	20.5
1 22	7 21.47	+18 54.9	1.593	2.563	4.7	20.8
2 1	7 11.61	+19 42.5	1.638	2.566	9.2	21.0
2 11	7 4.05	+20 24.9	1.708	2.569	13.2	21.3
2 21	6 59.42	+21 0.7	1.800	2.572	16.5	21.5
133190 2003 QT_{54}			1 12.4 227°.84		1°.7/13.0 18	
12 13	7 57.94	+15 23.6	1.784	2.628	13.4	20.3
12 23	7 51.50	+15 46.6	1.704	2.620	9.7	20.1
1 2	7 42.72	+16 20.1	1.650	2.613	5.5	19.8
1 12	7 32.51	+17 1.2	1.623	2.604	1.8	19.6
1 22	7 22.03	+17 46.1	1.626	2.596	4.6	19.7
2 1	7 12.55	+18 30.8	1.657	2.586	9.0	20.0
2 11	7 5.17	+19 12.4	1.714	2.577	13.1	20.2
2 21	7 0.58	+19 49.2	1.792	2.567	16.5	20.4
437795 2015 CE_{47}			1 12.4 332°.94		5°.7/14.9 18	
12 13	7 52.00	+ 4 9.8	2.062	2.873	13.2	20.2
12 23	7 47.00	+ 4 3.1	1.983	2.866	10.4	20.0
1 2	7 40.24	+ 4 13.6	1.928	2.860	7.7	19.9
1 12	7 32.42	+ 4 41.4	1.900	2.854	5.8	19.7
1 22	7 24.45	+ 5 24.8	1.899	2.848	6.4	19.8
2 1	7 17.25	+ 6 20.5	1.926	2.843	8.8	19.9
2 11	7 11.68	+ 7 23.8	1.979	2.838	11.8	20.1
2 21	7 8.27	+ 8 30.0	2.055	2.834	14.5	20.2
450733 2007 GS_{23}			1 12.4 231°.11		2°.7/13.2 18	
12 13	7 59.09	+14 31.0	1.620	2.465	14.5	22.2
12 23	7 52.44	+14 29.6	1.543	2.458	10.6	22.0
1 2	7 43.26	+14 39.0	1.489	2.450	6.2	21.7
1 12	7 32.53	+14 57.5	1.463	2.442	2.8	21.5
1 22	7 21.55	+15 22.3	1.466	2.434	5.3	21.6
2 1	7 11.72	+15 50.3	1.495	2.425	9.8	21.8
2 11	7 4.20	+16 18.9	1.550	2.416	14.0	22.1
2 21	6 59.71	+16 46.0	1.625	2.407	17.6	22.3
229054 2004 FT_{85}			1 12.4 22°.67		0°.3/12.3 18	
12 13	7 58.65	+18 59.9	1.233	2.101	16.6	20.1
12 23	7 52.68	+19 57.9	1.173	2.102	11.7	19.8
1 2	7 43.56	+21 7.7	1.135	2.104	6.2	19.5
1 12	7 32.54	+22 21.8	1.123	2.106	0.3	19.0
1 22	7 21.30	+23 32.2	1.137	2.108	5.9	19.5
2 1	7 11.63	+24 32.4	1.177	2.111	11.4	19.8
2 11	7 4.98	+25 19.6	1.240	2.114	16.3	20.1
2 21	7 2.07	+25 53.7	1.321	2.117	20.2	20.3
59280 1999 CL_{48}			1 12.4 0°.95		1°.3/11.9 18	
12 13	7 59.29	+23 5.1	1.386	2.252	15.2	18.6
12 23	7 52.90	+23 37.4	1.322	2.251	10.8	18.3
1 2	7 43.59	+24 13.6	1.282	2.251	5.7	18.1
1 12	7 32.54	+24 48.1	1.268	2.251	1.3	17.8
1 22	7 21.36	+25 15.5	1.282	2.251	5.7	18.1
2 1	7 11.68	+25 33.1	1.321	2.251	10.8	18.3
2 11	7 4.83	+25 40.7	1.384	2.252	15.3	18.6
2 21	7 1.49	+25 39.8	1.466	2.253	19.0	18.9
331666 2002 PR_{138}			1 12.4 80°.56		7°.1/16.1 18	
12 13	7 53.83	− 1 31.5	2.228	3.004	13.4	20.6
12 23	7 47.99	− 1 49.4	2.173	3.025	11.0	20.5
1 2	7 40.61	− 1 47.9	2.142	3.045	8.7	20.4
1 12	7 32.44	− 1 26.4	2.137	3.065	7.3	20.3
1 22	7 24.32	− 0 46.5	2.160	3.085	7.4	20.4
2 1	7 17.07	+ 0 8.4	2.210	3.105	9.0	20.5
2 11	7 11.40	+ 1 13.4	2.286	3.124	11.2	20.7
2 21	7 7.74	+ 2 23.3	2.385	3.144	13.3	20.8

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
82959 2001 QK_{129}			1 12.4 53°.77		0°.1/12.4 18	
	h m	° ′			°	m
12 13	7 57.43	+22 0.0	1.995	2.846	11.9	18.5
12 23	7 50.67	+21 45.4	1.939	2.861	8.4	18.3
1 2	7 42.04	+21 32.4	1.910	2.877	4.4	18.1
1 12	7 32.49	+21 19.2	1.910	2.894	0.2	17.8
1 22	7 23.09	+21 4.6	1.940	2.910	4.0	18.1
2 1	7 14.85	+20 48.4	1.998	2.927	7.8	18.4
2 11	7 8.62	+20 30.9	2.083	2.943	11.2	18.6
2 21	7 4.82	+20 12.5	2.190	2.960	14.0	18.9
176796 2002 SL_{58}			1 12.4 41°.18		2°.6/11.4 18	
12 13	7 57.99	+25 0.0	1.443	2.311	14.6	19.6
12 23	7 51.84	+25 58.8	1.391	2.321	10.3	19.4
1 2	7 42.95	+26 59.6	1.363	2.331	5.6	19.2
1 12	7 32.53	+27 55.1	1.362	2.342	2.6	19.0
1 22	7 22.08	+28 39.3	1.387	2.353	6.0	19.2
2 1	7 13.16	+29 9.0	1.440	2.364	10.6	19.5
2 11	7 6.95	+29 24.5	1.515	2.376	14.6	19.8
2 21	7 4.06	+29 28.0	1.610	2.389	17.9	20.1
265342 2004 QQ_{3}			1 12.4 220°.29		2°.1/11.7 18	
12 13	7 59.83	+28 24.8	2.405	3.248	10.4	21.2
12 23	7 52.40	+28 36.5	2.322	3.239	7.4	21.0
1 2	7 43.03	+28 45.1	2.266	3.229	4.2	20.8
1 12	7 32.54	+28 47.3	2.240	3.219	2.1	20.6
1 22	7 21.93	+28 40.9	2.246	3.208	4.4	20.8
2 1	7 12.24	+28 25.5	2.281	3.196	7.8	21.0
2 11	7 4.39	+28 2.3	2.344	3.184	10.9	21.1
2 21	6 58.92	+27 33.4	2.430	3.171	13.5	21.3
249524 2010 ED_{34}			1 12.4 306°.36		0°.4/12.5 18	
12 13	7 54.45	+19 34.9	2.008	2.861	11.8	20.6
12 23	7 48.92	+19 48.2	1.921	2.843	8.4	20.4
1 2	7 41.33	+20 6.8	1.859	2.826	4.5	20.1
1 12	7 32.48	+20 28.2	1.825	2.809	0.5	19.7
1 22	7 23.36	+20 49.5	1.821	2.792	4.1	20.0
2 1	7 15.09	+21 8.6	1.845	2.775	8.3	20.2
2 11	7 8.64	+21 24.0	1.895	2.758	12.0	20.4
2 21	7 4.65	+21 35.2	1.966	2.742	15.2	20.6
317614 2003 AZ_{55}			1 12.4 14°.35		5°.8/15.1 18	
12 13	7 53.38	+ 5 22.6	1.385	2.221	17.0	19.5
12 23	7 48.54	+ 5 49.0	1.323	2.225	13.2	19.3
1 2	7 41.23	+ 6 40.7	1.283	2.229	9.1	19.1
1 12	7 32.48	+ 7 55.7	1.267	2.234	6.1	18.9
1 22	7 23.59	+ 9 28.3	1.278	2.240	6.9	19.0
2 1	7 15.93	+11 10.3	1.314	2.247	10.6	19.2
2 11	7 10.65	+12 53.3	1.375	2.255	14.6	19.5
2 21	7 8.39	+14 30.4	1.457	2.263	18.1	19.7
455370 2002 TF_{205}			1 12.4 46°.32		2°.3/13.2 16	
12 13	7 59.33	+14 10.9	1.235	2.094	17.2	20.9
12 23	7 52.51	+14 43.8	1.206	2.129	12.3	20.7
1 2	7 43.11	+15 30.7	1.200	2.164	6.9	20.5
1 12	7 32.54	+16 26.1	1.219	2.200	2.4	20.3
1 22	7 22.37	+17 23.8	1.265	2.237	5.4	20.6
2 1	7 14.04	+18 18.5	1.338	2.273	10.2	21.0
2 11	7 8.56	+19 6.8	1.434	2.310	14.3	21.3
2 21	7 6.31	+19 46.9	1.549	2.347	17.6	21.6
160451 2005 UO_{496}			1 12.4 218°.12		0°.4/12.2 18	
12 13	7 56.92	+20 17.4	2.171	3.017	11.3	20.2
12 23	7 50.54	+21 8.2	2.090	3.010	8.0	20.0
1 2	7 42.15	+22 4.8	2.036	3.003	4.2	19.7
1 12	7 32.52	+23 3.1	2.012	2.996	0.4	19.4
1 22	7 22.64	+23 58.5	2.019	2.988	4.1	19.7
2 1	7 13.57	+24 47.6	2.056	2.979	8.0	19.9
2 11	7 6.28	+25 28.4	2.120	2.971	11.4	20.1
2 21	7 1.39	+26 0.6	2.206	2.961	14.3	20.3
161113 2002 QX_{98}			1 12.4 136°.81		0°.5/12.1 18	
12 13	7 55.08	+21 12.5	2.174	3.024	11.1	20.3
12 23	7 49.16	+21 53.3	2.104	3.026	7.8	20.1
1 2	7 41.36	+22 38.4	2.060	3.027	4.1	19.8
1 12	7 32.49	+23 23.9	2.045	3.028	0.5	19.6
1 22	7 23.49	+24 6.1	2.061	3.030	4.0	19.8
2 1	7 15.37	+24 42.3	2.106	3.031	7.7	20.1
2 11	7 9.01	+25 11.0	2.177	3.032	11.0	20.3
2 21	7 4.94	+25 32.3	2.271	3.033	13.8	20.5
381208 2007 RT_{125}			1 12.4 54°.47		4°.4/10.6 18	
12 13	7 57.96	+32 19.2	1.956	2.811	12.0	20.5
12 23	7 51.32	+33 18.1	1.912	2.830	8.7	20.4
1 2	7 42.50	+34 10.9	1.893	2.850	5.6	20.2
1 12	7 32.54	+34 51.8	1.903	2.870	4.4	20.2
1 22	7 22.66	+35 17.1	1.942	2.890	6.4	20.3
2 1	7 14.07	+35 25.8	2.008	2.910	9.4	20.6
2 11	7 7.72	+35 19.8	2.098	2.931	12.3	20.8
2 21	7 4.11	+35 2.5	2.210	2.951	14.7	21.0

244712 2003 QT_{52} 1 12.4 201°.78 0°.7/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 59.86	+22 15.7	1.937	2.785	12.3	21.3
12 23	7 52.74	+22 45.5	1.861	2.782	8.7	21.1
1 2	7 43.34	+23 18.7	1.810	2.777	4.6	20.8
1 12	7 32.59	+23 51.0	1.790	2.772	0.7	20.5
1 22	7 21.64	+24 18.7	1.799	2.767	4.5	20.8
2 1	7 11.74	+24 39.4	1.837	2.761	8.7	21.0
2 11	7 3.95	+24 52.5	1.901	2.754	12.5	21.2
2 21	6 58.90	+24 58.8	1.987	2.746	15.6	21.4

228762 2002 VR_{102} 1 12.4 43°.60 2°.6/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.90	+16 27.8	1.260	2.121	16.8	20.2
12 23	7 53.31	+16 9.4	1.202	2.126	12.1	20.0
1 2	7 43.78	+16 1.0	1.166	2.131	6.9	19.7
1 12	7 32.60	+16 0.9	1.155	2.136	2.7	19.4
1 22	7 21.41	+16 6.7	1.171	2.141	5.9	19.7
2 1	7 11.86	+16 16.2	1.212	2.147	11.1	20.0
2 11	7 5.25	+16 27.1	1.276	2.152	15.7	20.3
2 21	7 2.16	+16 37.9	1.358	2.158	19.5	20.5

108597 2001 MJ_{16} 1 12.4 110°.20 1°.0/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 51.87	+25 4.3	3.473	4.317	7.5	20.3
12 23	7 46.33	+25 25.8	3.413	4.332	5.2	20.2
1 2	7 39.68	+25 47.2	3.381	4.346	2.8	20.0
1 12	7 32.45	+26 6.4	3.380	4.361	1.0	19.9
1 22	7 25.24	+26 21.7	3.410	4.375	2.9	20.1
2 1	7 18.62	+26 32.4	3.471	4.389	5.3	20.2
2 11	7 13.11	+26 38.1	3.561	4.403	7.4	20.4
2 21	7 9.08	+26 39.3	3.674	4.416	9.3	20.6

408269 2013 FG_{18} 1 12.4 174°.74 4°.2/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.78	+31 41.5	1.870	2.721	12.6	21.1
12 23	7 54.21	+32 23.9	1.805	2.723	9.2	20.9
1 2	7 44.13	+33 0.9	1.766	2.724	5.7	20.7
1 12	7 32.62	+33 26.4	1.755	2.725	4.2	20.6
1 22	7 21.02	+33 36.4	1.773	2.726	6.4	20.7
2 1	7 10.76	+33 30.2	1.819	2.726	9.9	20.9
2 11	7 2.95	+33 10.2	1.890	2.726	13.2	21.1
2 21	6 58.21	+32 40.2	1.981	2.726	16.1	21.3

83936 2001 VY_{86} 1 12.4 166°.01 3°.4/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.74	+ 8 57.8	2.372	3.188	11.5	20.1
12 23	7 49.40	+ 9 17.1	2.298	3.193	8.6	19.9
1 2	7 41.43	+ 9 48.8	2.250	3.197	5.6	19.7
1 12	7 32.52	+10 31.2	2.231	3.201	3.4	19.6
1 22	7 23.52	+11 21.6	2.243	3.205	4.5	19.7
2 1	7 15.28	+12 16.8	2.286	3.208	7.4	19.9
2 11	7 8.58	+13 13.2	2.356	3.210	10.3	20.1
2 21	7 3.92	+14 8.0	2.449	3.211	12.9	20.2

334068 2001 PP_{28} 1 12.4 110°.25 5°.2/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.09	+ 2 16.6	2.551	3.340	11.6	20.9
12 23	7 47.39	+ 2 22.8	2.486	3.354	9.2	20.7
1 2	7 40.31	+ 2 44.4	2.447	3.368	6.8	20.6
1 12	7 32.48	+ 3 20.8	2.435	3.382	5.3	20.5
1 22	7 24.64	+ 4 10.1	2.453	3.396	5.6	20.6
2 1	7 17.52	+ 5 9.0	2.501	3.409	7.5	20.7
2 11	7 11.78	+ 6 13.6	2.576	3.422	9.8	20.9
2 21	7 7.83	+ 7 19.9	2.675	3.435	12.0	21.0

73926 1997 ML_{9} 1 12.4 79°.07 5°.2/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.97	+ 5 23.5	2.100	2.911	12.9	19.5
12 23	7 48.24	+ 5 12.9	2.037	2.923	10.1	19.3
1 2	7 40.82	+ 5 17.8	1.999	2.934	7.2	19.2
1 12	7 32.50	+ 5 38.0	1.987	2.945	5.3	19.1
1 22	7 24.16	+ 6 11.8	2.005	2.956	6.0	19.1
2 1	7 16.71	+ 6 55.8	2.050	2.967	8.4	19.3
2 11	7 10.93	+ 7 46.2	2.122	2.978	11.2	19.5
2 21	7 7.29	+ 8 38.9	2.217	2.989	13.8	19.7

389346 2009 UW_{7} 1 12.4 157°.09 0°.4/12.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 50.50	+22 50.3	3.900	4.741	6.8	21.9
12 23	7 45.32	+23 10.2	3.829	4.746	4.8	21.8
1 2	7 39.15	+23 31.1	3.786	4.752	2.5	21.6
1 12	7 32.44	+23 51.3	3.774	4.757	0.4	21.5
1 22	7 25.70	+24 9.3	3.794	4.762	2.4	21.7
2 1	7 19.44	+24 24.2	3.846	4.766	4.7	21.8
2 11	7 14.12	+24 35.5	3.926	4.770	6.8	22.0
2 21	7 10.08	+24 43.1	4.031	4.774	8.5	22.1

328362 2008 OY_{10} 1 12.4 171°.94 1°.9/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.15	+15 16.3	2.486	3.317	10.5	21.0
12 23	7 49.62	+15 11.9	2.411	3.320	7.6	20.9
1 2	7 41.51	+15 13.6	2.364	3.323	4.4	20.7
1 12	7 32.53	+15 20.4	2.346	3.325	1.9	20.5
1 22	7 23.49	+15 30.7	2.360	3.327	3.7	20.6
2 1	7 15.25	+15 43.0	2.404	3.328	6.9	20.8
2 11	7 8.53	+15 55.9	2.475	3.329	9.9	21.0
2 21	7 3.81	+16 8.5	2.570	3.329	12.4	21.2

408901 2001 VN_{28} 1 12.4 61°.67 5°.1/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 58.20	+ 9 54.6	1.639	2.472	15.0	20.0
12 23	7 51.40	+ 9 12.7	1.590	2.492	11.3	19.8
1 2	7 42.51	+ 8 44.7	1.565	2.513	7.5	19.6
1 12	7 32.57	+ 8 31.2	1.566	2.533	5.1	19.5
1 22	7 22.80	+ 8 31.3	1.596	2.554	6.4	19.6
2 1	7 14.35	+ 8 42.5	1.653	2.575	9.6	19.9
2 11	7 8.15	+ 9 1.8	1.734	2.596	13.0	20.1
2 21	7 4.64	+ 9 25.4	1.837	2.616	15.9	20.4

58363 1995 MP_{4} 1 12.4 309°.56 2°.5/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.36	+14 10.2	2.223	3.060	11.4	19.6
12 23	7 48.55	+13 56.3	2.147	3.057	8.3	19.4
1 2	7 41.02	+13 50.0	2.097	3.055	5.0	19.2
1 12	7 32.53	+13 50.6	2.075	3.052	2.6	19.0
1 22	7 23.94	+13 56.7	2.084	3.050	4.2	19.1
2 1	7 16.19	+14 7.0	2.121	3.048	7.6	19.3
2 11	7 10.07	+14 19.7	2.185	3.046	10.7	19.5
2 21	7 6.08	+14 33.2	2.272	3.044	13.5	19.7

399464 2002 QZ_{46} 1 12.4 89°.13 5°.6/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.74	+ 5 4.5	1.964	2.768	14.0	22.2
12 23	7 52.12	+ 4 47.6	1.922	2.803	10.8	22.0
1 2	7 42.75	+ 4 47.0	1.905	2.838	7.7	21.9
1 12	7 32.59	+ 5 2.4	1.916	2.872	5.7	21.9
1 22	7 22.64	+ 5 31.7	1.956	2.905	6.3	22.0
2 1	7 13.90	+ 6 11.3	2.026	2.937	8.8	22.2
2 11	7 7.12	+ 6 57.2	2.121	2.968	11.6	22.4
2 21	7 2.72	+ 7 45.2	2.239	2.999	14.0	22.6

280260 2002 XD_{95} 1 12.4 78°.93 1°.5/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.17	+16 28.7	2.191	3.033	11.4	20.5
12 23	7 49.03	+16 31.9	2.133	3.048	8.1	20.3
1 2	7 41.22	+16 41.5	2.100	3.063	4.5	20.1
1 12	7 32.54	+16 55.7	2.097	3.077	1.6	20.0
1 22	7 23.91	+17 12.5	2.123	3.092	3.8	20.1
2 1	7 16.22	+17 29.9	2.179	3.107	7.3	20.4
2 11	7 10.24	+17 46.5	2.261	3.122	10.4	20.6
2 21	7 6.42	+18 1.2	2.366	3.136	13.1	20.8

68075 2000 YN_{86} 1 12.4 127°.51 1°.5/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.66	+16 35.8	1.871	2.713	13.0	19.3
12 23	7 52.40	+16 47.0	1.812	2.727	9.3	19.1
1 2	7 43.07	+17 5.8	1.778	2.741	5.1	18.9
1 12	7 32.62	+17 29.4	1.773	2.755	1.5	18.6
1 22	7 22.20	+17 54.9	1.798	2.767	4.3	18.9
2 1	7 12.97	+18 19.8	1.852	2.780	8.4	19.1
2 11	7 5.85	+18 42.3	1.932	2.791	12.0	19.4
2 21	7 1.35	+19 1.6	2.034	2.802	15.0	19.6

457385 2008 TX_{49} 1 12.4 109°.96 3°.0/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.92	+29 32.3	2.158	3.009	11.1	21.5
12 23	7 51.18	+30 8.5	2.098	3.017	8.0	21.3
1 2	7 42.43	+30 41.5	2.063	3.025	4.7	21.1
1 12	7 32.60	+31 6.6	2.058	3.033	3.0	21.0
1 22	7 22.74	+31 20.9	2.082	3.040	5.2	21.1
2 1	7 13.98	+31 23.4	2.136	3.047	8.4	21.3
2 11	7 7.21	+31 15.1	2.215	3.055	11.4	21.6
2 21	7 2.95	+30 58.3	2.315	3.062	14.0	21.8

134826 2000 HD_{2} 1 12.4 49°.14 3°.1/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.08	+13 13.2	1.430	2.282	15.7	19.3
12 23	7 50.92	+13 18.1	1.383	2.301	11.4	19.1
1 2	7 42.37	+13 36.6	1.359	2.320	6.8	18.9
1 12	7 32.59	+14 6.2	1.361	2.340	3.2	18.7
1 22	7 22.94	+14 43.1	1.391	2.360	5.4	18.9
2 1	7 14.75	+15 23.0	1.447	2.380	9.7	19.2
2 11	7 9.04	+16 2.3	1.526	2.401	13.7	19.5
2 21	7 6.31	+16 38.3	1.627	2.422	17.0	19.8

292043 2006 QN_{183} 1 12.4 108°.81 0°.4/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.75	+21 28.9	1.968	2.816	12.2	21.6
12 23	7 52.39	+21 57.8	1.916	2.836	8.5	21.4
1 2	7 43.02	+22 29.8	1.890	2.857	4.4	21.2
1 12	7 32.62	+23 0.8	1.893	2.876	0.4	20.9
1 22	7 22.31	+23 27.7	1.926	2.895	4.2	21.2
2 1	7 13.20	+23 48.4	1.989	2.914	8.1	21.5
2 11	7 6.18	+24 2.5	2.078	2.932	11.5	21.7
2 21	7 1.74	+24 10.5	2.190	2.949	14.3	22.0

433378 2013 SZ_{56} 1 12.4 165°.11 17°.5/ 7.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 22.70	+56 27.4	1.242	2.043	20.7	20.7
12 23	8 12.23	+58 37.3	1.205	2.045	18.8	20.6
1 2	7 54.81	+60 11.5	1.187	2.047	17.6	20.5
1 12	7 33.06	+60 51.1	1.188	2.048	17.6	20.6
1 22	7 11.41	+60 28.4	1.209	2.049	18.8	20.6
2 1	6 54.27	+59 9.9	1.249	2.050	20.6	20.8
2 11	6 44.06	+57 12.3	1.305	2.051	22.8	20.9
2 21	6 40.90	+54 52.8	1.375	2.051	24.8	21.1

267683 2002 UU_{24} 1 12.4 157°.05 3°.3/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 4.14	+28 32.3	1.769	2.619	13.2	21.1
12 23	7 55.91	+29 22.9	1.708	2.628	9.5	20.9
1 2	7 45.05	+30 10.9	1.673	2.636	5.5	20.7
1 12	7 32.70	+30 49.6	1.667	2.643	3.3	20.5
1 22	7 20.31	+31 14.2	1.691	2.649	6.0	20.7
2 1	7 9.33	+31 23.5	1.742	2.654	9.9	21.0
2 11	7 0.94	+31 19.0	1.819	2.659	13.5	21.2
2 21	6 55.75	+31 4.3	1.917	2.662	16.5	21.4

420041 2011 DV_{12} 1 12.4 324°.69 1°.4/12.7 18

12 13	7 56.33	+19 13.0	1.593	2.452	14.0	20.3
12 23	7 50.62	+18 52.9	1.511	2.436	10.0	20.0
1 2	7 42.38	+18 37.3	1.454	2.420	5.5	19.7
1 12	7 32.61	+18 25.0	1.423	2.405	1.4	19.4
1 22	7 22.58	+18 14.5	1.420	2.391	5.0	19.6
2 1	7 13.68	+18 4.9	1.444	2.377	9.8	19.8
2 11	7 7.10	+17 55.6	1.492	2.364	14.1	20.0
2 21	7 3.54	+17 46.4	1.560	2.352	17.8	20.2

143646 2003 OO_{7} 1 12.4 188°.52 3°.4/13.4 18

12 13	7 58.62	+12 28.9	1.813	2.648	13.7	20.6
12 23	7 51.84	+12 19.4	1.739	2.647	10.1	20.4
1 2	7 42.87	+12 20.9	1.691	2.646	6.3	20.1
1 12	7 32.63	+12 32.6	1.670	2.645	3.4	20.0
1 22	7 22.25	+12 52.4	1.678	2.643	5.2	20.1
2 1	7 12.93	+13 17.7	1.715	2.641	9.0	20.3
2 11	7 5.68	+13 45.8	1.777	2.639	12.8	20.5
2 21	7 1.12	+14 14.2	1.861	2.635	16.0	20.7

420948 2013 PE_{4} 1 12.4 220°.56 4°.3/13.6 18

12 13	7 57.03	+10 4.0	2.086	2.909	12.6	21.3
12 23	7 50.52	+ 9 31.9	2.006	2.904	9.5	21.1
1 2	7 42.12	+ 9 10.2	1.951	2.898	6.4	20.9
1 12	7 32.61	+ 8 59.5	1.924	2.891	4.3	20.7
1 22	7 22.95	+ 8 59.3	1.927	2.884	5.5	20.8
2 1	7 14.17	+ 9 8.2	1.959	2.877	8.6	20.9
2 11	7 7.14	+ 9 23.9	2.016	2.870	11.8	21.1
2 21	7 2.44	+ 9 43.9	2.096	2.862	14.7	21.3

426584 2013 SA_{28} 1 12.4 39°.15 8°.4/11.3 18

12 13	8 7.21	+44 23.2	1.676	2.508	14.8	19.9
12 23	7 58.02	+44 42.9	1.641	2.532	11.8	19.8
1 2	7 45.97	+44 42.3	1.630	2.556	9.3	19.7
1 12	7 32.73	+44 15.4	1.644	2.580	8.4	19.7
1 22	7 20.17	+43 21.6	1.685	2.605	9.5	19.8
2 1	7 9.87	+42 5.4	1.752	2.631	11.9	20.0
2 11	7 2.88	+40 34.5	1.842	2.657	14.5	20.3
2 21	6 59.47	+38 56.5	1.953	2.683	16.7	20.5

367169 2006 WT_{123} 1 12.4 11°.28 0°.3/12.3 18

12 13	7 59.58	+23 51.6	1.503	2.366	14.5	19.8
12 23	7 52.81	+23 25.4	1.440	2.367	10.2	19.5
1 2	7 43.44	+22 58.7	1.401	2.370	5.4	19.2
1 12	7 32.66	+22 29.3	1.389	2.373	0.3	18.9
1 22	7 21.94	+21 56.5	1.405	2.376	5.0	19.2
2 1	7 12.74	+21 21.0	1.448	2.380	9.9	19.5
2 11	7 6.18	+20 44.5	1.515	2.385	14.1	19.8
2 21	7 2.80	+20 8.4	1.603	2.390	17.6	20.0

105456 2000 QK_{197} 1 12.4 202°.31 1°.1/12.0 18

12 13	8 0.98	+23 34.7	1.828	2.678	12.9	20.8
12 23	7 53.65	+23 58.4	1.753	2.675	9.1	20.6
1 2	7 43.89	+24 23.9	1.704	2.671	4.8	20.3
1 12	7 32.69	+24 46.9	1.684	2.666	1.1	20.0
1 22	7 21.31	+25 3.8	1.693	2.661	4.8	20.3
2 1	7 11.10	+25 12.8	1.731	2.655	9.2	20.5
2 11	7 3.17	+25 14.0	1.795	2.649	13.0	20.7
2 21	6 58.17	+25 8.8	1.880	2.642	16.3	21.0

130726 2000 SE_{223} 1 12.4 119°.75 4°.5/13.8 18

12 13	7 57.90	+10 9.2	1.585	2.422	15.2	20.2
12 23	7 51.50	+ 9 59.9	1.520	2.426	11.4	19.9
1 2	7 42.74	+10 5.8	1.479	2.431	7.4	19.7
1 12	7 32.64	+10 26.3	1.464	2.436	4.6	19.6
1 22	7 22.46	+10 58.6	1.477	2.440	6.1	19.7
2 1	7 13.49	+11 39.0	1.517	2.444	9.9	19.9
2 11	7 6.81	+12 23.3	1.581	2.448	13.7	20.1
2 21	7 3.03	+13 7.6	1.667	2.452	17.1	20.4

337110 1999 RE_{110} 1 12.4 112°.44 1°.3/12.1 17

12 13	8 6.21	+24 44.1	1.585	2.436	14.5	21.4
12 23	7 57.19	+24 55.7	1.537	2.459	10.2	21.1
1 2	7 45.60	+25 6.5	1.515	2.481	5.3	20.9
1 12	7 32.76	+25 12.2	1.521	2.503	1.3	20.7
1 22	7 20.20	+25 9.9	1.556	2.524	5.2	21.0
2 1	7 9.40	+24 59.4	1.620	2.543	9.7	21.3
2 11	7 1.40	+24 42.6	1.709	2.562	13.6	21.6
2 21	6 56.69	+24 21.7	1.818	2.580	16.7	21.8

454380 2014 ME_{56} 1 12.4 219°.61 0°.0/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 59.49	+20 9.9	1.802	2.652	13.1	22.4
12 23	7 52.66	+20 39.2	1.723	2.645	9.3	22.1
1 2	7 43.41	+21 14.5	1.670	2.637	4.9	21.8
1 12	7 32.68	+21 51.5	1.646	2.629	0.2	21.4
1 22	7 21.70	+22 26.3	1.651	2.621	4.6	21.8
2 1	7 11.77	+22 55.8	1.685	2.612	9.1	22.0
2 11	7 4.04	+23 18.4	1.744	2.602	13.1	22.3
2 21	6 59.18	+23 34.4	1.824	2.592	16.5	22.5

461100 2015 BA_{108} 1 12.4 86°.20 0°.3/12.3 18

12 13	7 56.73	+20 41.6	1.941	2.792	12.2	21.0
12 23	7 50.40	+21 14.8	1.881	2.804	8.5	20.8
1 2	7 42.07	+21 52.5	1.848	2.815	4.4	20.6
1 12	7 32.63	+22 30.8	1.843	2.827	0.3	20.3
1 22	7 23.18	+23 5.9	1.868	2.838	4.2	20.6
2 1	7 14.81	+23 35.3	1.922	2.849	8.2	20.9
2 11	7 8.44	+23 57.9	2.002	2.861	11.7	21.1
2 21	7 4.59	+24 13.6	2.103	2.872	14.6	21.3

431206 2006 SR_{164} 1 12.4 314°.35 5°.4/14.5 18

12 13	7 52.49	+ 5 11.4	2.220	3.030	12.4	20.8
12 23	7 47.29	+ 4 50.0	2.139	3.022	9.8	20.6
1 2	7 40.43	+ 4 42.8	2.082	3.015	7.1	20.4
1 12	7 32.58	+ 4 50.7	2.053	3.007	5.5	20.3
1 22	7 24.58	+ 5 12.7	2.052	3.000	6.1	20.3
2 1	7 17.31	+ 5 46.5	2.079	2.993	8.5	20.5
2 11	7 11.56	+ 6 28.7	2.132	2.986	11.2	20.6
2 21	7 7.86	+ 7 15.5	2.208	2.980	13.8	20.8

293052 2006 WQ_{114} 1 12.4 300°.35 3°.6/13.6 18

12 13	7 55.38	+11 51.6	1.666	2.509	14.3	20.6
12 23	7 49.87	+11 51.8	1.583	2.495	10.7	20.4
1 2	7 42.00	+12 5.8	1.524	2.481	6.7	20.1
1 12	7 32.64	+12 32.4	1.492	2.467	3.7	19.9
1 22	7 22.98	+13 9.1	1.487	2.454	5.5	20.0
2 1	7 14.28	+13 52.1	1.510	2.440	9.6	20.2
2 11	7 7.69	+14 37.5	1.557	2.427	13.7	20.4
2 21	7 3.91	+15 21.8	1.625	2.415	17.3	20.6

427553 2002 TM_{334} 1 12.4 93°.49 4°.1/14.3 18

12 13	7 53.58	+ 7 51.9	2.227	3.045	12.1	21.6
12 23	7 47.97	+ 7 53.3	2.158	3.052	9.2	21.4
1 2	7 40.73	+ 8 7.9	2.115	3.058	6.2	21.2
1 12	7 32.59	+ 8 35.0	2.099	3.065	4.2	21.1
1 22	7 24.39	+ 9 12.4	2.113	3.072	5.1	21.2
2 1	7 17.01	+ 9 57.1	2.156	3.078	7.7	21.4
2 11	7 11.20	+10 45.6	2.226	3.084	10.7	21.6
2 21	7 7.44	+11 34.6	2.319	3.091	13.2	21.7

89507 2001 XF_{53} 1 12.4 74°.33 1°.4/12.8 18

12 13	8 1.85	+17 24.4	1.371	2.226	16.0	19.3
12 23	7 54.28	+17 34.5	1.330	2.252	11.4	19.1
1 2	7 44.13	+17 53.3	1.312	2.277	6.1	18.9
1 12	7 32.72	+18 17.2	1.320	2.303	1.5	18.6
1 22	7 21.58	+18 42.2	1.357	2.328	5.2	18.9
2 1	7 12.18	+19 5.4	1.420	2.353	10.0	19.3
2 11	7 5.59	+19 25.2	1.508	2.377	14.2	19.6
2 21	7 2.25	+19 40.7	1.615	2.402	17.5	19.9

105679 2000 SO_{46} 1 12.4 155°.17 1°.3/12.7 18

12 13	7 59.55	+19 22.1	1.941	2.786	12.5	19.4
12 23	7 52.35	+18 54.2	1.870	2.788	8.9	19.2
1 2	7 43.08	+18 29.4	1.825	2.790	4.9	18.9
1 12	7 32.69	+18 6.6	1.810	2.792	1.3	18.7
1 22	7 22.29	+17 45.3	1.824	2.793	4.3	18.9
2 1	7 13.03	+17 25.2	1.867	2.795	8.3	19.2
2 11	7 5.83	+17 6.4	1.937	2.796	12.0	19.4
2 21	7 1.23	+16 49.0	2.029	2.797	15.0	19.6

379074 2008 WS_{119} 1 12.4 352°.31 2°.3/13.0 18

12 13	7 54.96	+15 59.5	1.856	2.705	12.8	20.9
12 23	7 49.26	+15 39.6	1.784	2.702	9.3	20.6
1 2	7 41.52	+15 26.8	1.737	2.699	5.4	20.4
1 12	7 32.63	+15 20.3	1.717	2.697	2.4	20.2
1 22	7 23.66	+15 19.0	1.726	2.695	4.6	20.3
2 1	7 15.70	+15 21.4	1.763	2.694	8.5	20.6
2 11	7 9.69	+15 26.0	1.826	2.693	12.2	20.8
2 21	7 6.19	+15 31.6	1.909	2.693	15.3	21.0

148544 2001 QM_{130} 1 12.4 62°.45 1°.0/12.2 18

12 13	8 2.63	+25 7.7	1.567	2.423	14.3	19.2
12 23	7 54.62	+24 55.4	1.523	2.447	10.0	19.0
1 2	7 44.22	+24 41.7	1.504	2.471	5.2	18.8
1 12	7 32.73	+24 23.7	1.512	2.495	1.0	18.5
1 22	7 21.59	+24 0.3	1.550	2.519	4.9	18.9
2 1	7 12.16	+23 32.2	1.615	2.543	9.4	19.2
2 11	7 5.41	+23 1.1	1.706	2.567	13.2	19.5
2 21	7 1.73	+22 28.9	1.817	2.591	16.3	19.7

227467 2005 WH_{134} 1 12.4 138.°04 0.°0/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 57.20	+21 1.1	2.091	2.939	11.6	21.2
12 23	7 50.65	+21 14.5	2.024	2.944	8.1	20.9
1 2	7 42.19	+21 31.2	1.983	2.950	4.3	20.7
1 12	7 32.67	+21 48.3	1.971	2.955	0.2	20.4
1 22	7 23.11	+22 3.2	1.990	2.960	3.9	20.7
2 1	7 14.55	+22 14.5	2.037	2.964	7.8	21.0
2 11	7 7.88	+22 21.3	2.111	2.969	11.2	21.2
2 21	7 3.60	+22 24.0	2.208	2.973	14.0	21.4

74239 1998 SP_{48} 1 12.4 285.°37 2.°4/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.20	+15 18.0	1.684	2.532	13.9	19.0
12 23	7 51.03	+15 12.8	1.611	2.528	10.1	18.8
1 2	7 42.55	+15 17.0	1.562	2.524	5.9	18.5
1 12	7 32.69	+15 29.0	1.540	2.520	2.5	18.3
1 22	7 22.66	+15 46.5	1.547	2.516	5.0	18.5
2 1	7 13.75	+16 7.0	1.581	2.512	9.3	18.7
2 11	7 7.03	+16 28.0	1.640	2.508	13.3	18.9
2 21	7 3.13	+16 47.9	1.720	2.504	16.7	19.2

335903 2007 RM_{291} 1 12.4 119.°20 0.°6/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.21	+19 36.1	2.523	3.363	10.1	21.0
12 23	7 49.62	+19 32.3	2.459	3.376	7.1	20.8
1 2	7 41.53	+19 31.4	2.424	3.388	3.8	20.6
1 12	7 32.65	+19 31.9	2.418	3.401	0.7	20.4
1 22	7 23.81	+19 32.5	2.443	3.413	3.3	20.6
2 1	7 15.84	+19 32.2	2.499	3.424	6.6	20.9
2 11	7 9.43	+19 30.5	2.582	3.436	9.5	21.1
2 21	7 5.01	+19 27.4	2.689	3.447	12.0	21.3

319620 2006 SP_{288} 1 12.4 34.°12 9.°5/ 9.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.03	+41 14.4	1.398	2.251	15.9	20.0
12 23	7 56.00	+42 43.7	1.357	2.261	12.7	19.8
1 2	7 45.41	+43 55.9	1.338	2.271	10.2	19.7
1 12	7 32.81	+44 40.1	1.343	2.282	9.6	19.7
1 22	7 20.28	+44 50.9	1.374	2.293	11.3	19.8
2 1	7 9.89	+44 29.4	1.427	2.305	14.2	20.0
2 11	7 3.08	+43 42.7	1.502	2.318	17.1	20.2
2 21	7 0.42	+42 39.0	1.594	2.331	19.7	20.4

301998 2000 QW_{147} 1 12.4 233.°27 4.°5/15.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.37	+ 1 41.4	3.523	4.295	9.0	23.3
12 23	7 46.77	+ 1 35.2	3.422	4.277	7.3	23.2
1 2	7 40.04	+ 1 40.2	3.346	4.258	5.6	23.0
1 12	7 32.62	+ 1 56.7	3.301	4.239	4.5	22.9
1 22	7 25.04	+ 2 24.1	3.285	4.218	4.8	22.9
2 1	7 17.86	+ 3 0.8	3.301	4.197	6.3	23.0
2 11	7 11.61	+ 3 44.5	3.345	4.176	8.2	23.1
2 21	7 6.71	+ 4 32.5	3.414	4.153	10.0	23.2

126600 2002 CA_{136} 1 12.4 326.°26 6.°1/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.76	+ 6 49.8	1.313	2.155	17.4	19.2
12 23	7 49.85	+ 6 53.6	1.238	2.144	13.5	18.9
1 2	7 42.16	+ 7 21.3	1.185	2.134	9.3	18.6
1 12	7 32.70	+ 8 12.6	1.155	2.124	6.3	18.4
1 22	7 22.86	+ 9 23.9	1.152	2.115	7.4	18.5
2 1	7 14.20	+10 48.1	1.173	2.106	11.5	18.7
2 11	7 8.09	+12 17.3	1.217	2.098	16.0	18.9
2 21	7 5.31	+13 44.3	1.281	2.091	19.9	19.1

496597 2015 CV_{35} 1 12.4 13.°27 3.°0/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.88	+26 53.4	1.808	2.669	12.5	20.5
12 23	7 50.16	+28 0.6	1.746	2.671	8.8	20.2
1 2	7 42.12	+29 8.3	1.709	2.674	5.0	20.0
1 12	7 32.70	+30 10.2	1.700	2.677	3.1	19.9
1 22	7 23.12	+31 0.8	1.720	2.680	5.8	20.1
2 1	7 14.66	+31 36.9	1.767	2.683	9.5	20.3
2 11	7 8.40	+31 58.3	1.839	2.688	13.0	20.5
2 21	7 4.96	+32 7.0	1.932	2.692	15.9	20.7

236087 2005 LH_{2} 1 12.4 199.°10 2.°6/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.81	+10 58.9	2.990	3.808	9.3	21.5
12 23	7 47.19	+11 4.1	2.907	3.804	6.9	21.3
1 2	7 40.28	+11 17.4	2.850	3.800	4.4	21.2
1 12	7 32.63	+11 38.0	2.824	3.796	2.6	21.0
1 22	7 24.88	+12 4.5	2.829	3.791	3.6	21.1
2 1	7 17.70	+12 34.9	2.864	3.786	6.1	21.3
2 11	7 11.68	+13 7.2	2.928	3.780	8.6	21.4
2 21	7 7.25	+13 39.7	3.016	3.774	10.8	21.6

419221 2009 UY_{151} 1 12.4 342.°96 8.°6/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.35	+ 3 33.4	1.698	2.508	15.6	19.6
12 23	7 51.06	+ 1 54.5	1.626	2.503	12.7	19.4
1 2	7 42.54	+ 0 31.1	1.577	2.497	10.0	19.2
1 12	7 32.72	− 0 31.8	1.555	2.493	8.6	19.1
1 22	7 22.74	− 1 11.5	1.560	2.489	9.4	19.2
2 1	7 13.82	− 1 27.9	1.590	2.485	11.9	19.3
2 11	7 6.99	− 1 24.3	1.643	2.482	14.8	19.5
2 21	7 2.87	− 1 5.7	1.717	2.480	17.5	19.7

497240 2005 EP_{174} 1 12.4 306.°04 8.°0/15.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 52.63	− 1 11.9	2.023	2.809	14.3	21.2
12 23	7 47.62	− 1 42.2	1.935	2.792	11.9	21.0
1 2	7 40.72	− 1 52.2	1.869	2.776	9.6	20.8
1 12	7 32.65	− 1 39.7	1.829	2.759	8.2	20.7
1 22	7 24.31	− 1 4.7	1.815	2.742	8.5	20.7
2 1	7 16.68	− 0 10.1	1.827	2.726	10.4	20.7
2 11	7 10.69	+ 0 59.2	1.865	2.710	13.0	20.9
2 21	7 6.94	+ 2 17.1	1.923	2.694	15.6	21.0

67677 2000 SF_{286} 1 12.4 211.°41 1.°8/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.47	+15 7.4	2.606	3.440	10.0	19.8
12 23	7 47.79	+15 6.7	2.527	3.438	7.2	19.6
1 2	7 40.64	+15 12.2	2.476	3.435	4.2	19.4
1 12	7 32.65	+15 23.0	2.454	3.432	1.8	19.3
1 22	7 24.58	+15 37.3	2.462	3.430	3.5	19.4
2 1	7 17.19	+15 53.7	2.500	3.427	6.6	19.6
2 11	7 11.19	+16 10.6	2.566	3.423	9.5	19.7
2 21	7 7.03	+16 26.8	2.656	3.420	11.9	19.9

294978 2008 EN_{15} 1 12.4 310.°92 0.°5/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.09	+19 15.4	1.719	2.574	13.4	21.4
12 23	7 50.97	+19 33.2	1.648	2.571	9.5	21.2
1 2	7 42.54	+19 57.4	1.602	2.569	5.1	20.9
1 12	7 32.73	+20 24.7	1.583	2.566	0.6	20.6
1 22	7 22.77	+20 51.5	1.593	2.564	4.5	20.9
2 1	7 13.94	+21 15.2	1.631	2.562	9.0	21.1
2 11	7 7.30	+21 34.1	1.694	2.560	13.0	21.3
2 21	7 3.49	+21 47.9	1.778	2.558	16.4	21.6

393839 2005 SP_{115} 1 12.4 167.°43 3.°9/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.44	+30 11.4	1.683	2.535	13.7	21.2
12 23	7 56.30	+30 54.7	1.620	2.539	9.9	21.0
1 2	7 45.37	+31 33.4	1.582	2.543	6.0	20.8
1 12	7 32.84	+32 0.9	1.572	2.546	3.9	20.7
1 22	7 20.25	+32 12.5	1.592	2.549	6.5	20.8
2 1	7 9.17	+32 7.6	1.639	2.550	10.5	21.1
2 11	7 0.84	+31 48.7	1.710	2.552	14.2	21.3
2 21	6 55.89	+31 20.1	1.802	2.552	17.3	21.5

64655 2001 XG_{59} 1 12.4 65.°71 1.°8/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.08	+17 3.2	1.305	2.164	16.5	18.1
12 23	7 53.89	+17 5.6	1.262	2.186	11.7	17.9
1 2	7 44.00	+17 17.6	1.242	2.208	6.4	17.7
1 12	7 32.78	+17 35.9	1.249	2.230	1.9	17.5
1 22	7 21.81	+17 56.8	1.282	2.253	5.4	17.7
2 1	7 12.61	+18 17.4	1.341	2.275	10.3	18.1
2 11	7 6.27	+18 35.7	1.424	2.298	14.6	18.4
2 21	7 3.26	+18 50.6	1.527	2.320	18.1	18.7

324447 2006 TR_{82} 1 12.4 12.°18 2.°9/11.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.83	+27 21.4	1.285	2.159	15.6	20.8
12 23	7 52.04	+27 43.6	1.230	2.162	11.1	20.5
1 2	7 43.24	+28 3.7	1.198	2.166	6.2	20.3
1 12	7 32.77	+28 15.8	1.191	2.171	2.9	20.1
1 22	7 22.32	+28 16.0	1.210	2.177	6.4	20.3
2 1	7 13.59	+28 3.6	1.254	2.184	11.3	20.6
2 11	7 7.87	+27 40.6	1.320	2.192	15.6	20.9
2 21	7 5.72	+27 10.2	1.405	2.201	19.2	21.1

144525 2004 EF_{80} 1 12.4 96.°17 3.°9/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.61	+ 8 10.0	1.781	2.607	14.3	19.3
12 23	7 50.43	+ 8 45.8	1.719	2.619	10.7	19.1
1 2	7 42.17	+ 9 39.2	1.681	2.631	6.9	18.9
1 12	7 32.75	+10 47.2	1.670	2.642	4.1	18.8
1 22	7 23.25	+12 5.1	1.689	2.653	5.3	18.9
2 1	7 14.81	+13 27.1	1.736	2.664	8.8	19.1
2 11	7 8.39	+14 47.7	1.810	2.675	12.4	19.4
2 21	7 4.55	+16 2.8	1.906	2.686	15.4	19.6

123783 2001 BP_{16} 1 12.4 30.°88 0.°1/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.49	+17 22.4	1.699	2.554	13.5	19.1
12 23	7 49.87	+18 35.8	1.637	2.560	9.5	18.8
1 2	7 41.98	+20 0.1	1.600	2.567	5.0	18.6
1 12	7 32.74	+21 29.1	1.591	2.574	0.2	18.2
1 22	7 23.34	+22 55.8	1.611	2.582	4.6	18.6
2 1	7 15.03	+24 14.5	1.660	2.590	9.0	18.9
2 11	7 8.87	+25 21.6	1.735	2.599	12.9	19.1
2 21	7 5.48	+26 16.1	1.831	2.607	16.1	19.4

169366 2001 UF_{103} 1 12.4 129.°01 3.°2/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.99	+31 46.7	2.756	3.598	9.3	21.4
12 23	7 50.27	+32 29.8	2.698	3.611	6.7	21.2
1 2	7 41.94	+33 8.6	2.667	3.623	4.2	21.1
1 12	7 32.74	+33 39.3	2.667	3.635	3.2	21.1
1 22	7 23.52	+33 59.3	2.698	3.647	4.8	21.2
2 1	7 15.16	+34 7.7	2.758	3.658	7.2	21.3
2 11	7 8.40	+34 5.4	2.845	3.669	9.6	21.5
2 21	7 3.71	+33 54.3	2.955	3.680	11.7	21.7

20166 1996 VQ_4 1 12.4 182°.18 5°.4/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 58.51	+ 6 39.8	2.031	2.841	13.4	19.2
12 23	7 51.60	+ 6 9.0	1.956	2.842	10.4	19.0
1 2	7 42.75	+ 5 52.1	1.906	2.843	7.4	18.8
1 12	7 32.78	+ 5 49.7	1.884	2.842	5.5	18.7
1 22	7 22.70	+ 6 1.3	1.891	2.842	6.3	18.7
2 1	7 13.54	+ 6 24.7	1.927	2.840	9.1	18.9
2 11	7 6.22	+ 6 56.5	1.989	2.838	12.2	19.1
2 21	7 1.28	+ 7 33.1	2.073	2.835	14.9	19.3

204879 2007 TM_{32} 1 12.4 184°.12 1°.5/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.13	+16 45.9	1.771	2.616	13.5	21.3
12 23	7 52.33	+16 57.1	1.700	2.617	9.7	21.1
1 2	7 43.24	+17 16.6	1.653	2.617	5.4	20.8
1 12	7 32.81	+17 41.5	1.635	2.616	1.6	20.6
1 22	7 22.23	+18 8.8	1.645	2.616	4.6	20.8
2 1	7 12.77	+18 35.6	1.685	2.614	8.9	21.0
2 11	7 5.49	+19 0.0	1.750	2.613	12.9	21.3
2 21	7 1.00	+19 20.8	1.836	2.610	16.1	21.5

8446 Tazieff 1 12.4 86°.78 0°.6/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.62	+18 48.0	1.576	2.428	14.5	18.4
12 23	7 53.34	+19 10.4	1.528	2.450	10.2	18.2
1 2	7 43.69	+19 39.4	1.504	2.471	5.4	18.0
1 12	7 32.82	+20 11.1	1.509	2.492	0.7	17.7
1 22	7 22.09	+20 41.3	1.542	2.512	4.7	18.0
2 1	7 12.84	+21 7.4	1.602	2.533	9.2	18.4
2 11	7 6.09	+21 28.0	1.688	2.552	13.2	18.6
2 21	7 2.32	+21 42.9	1.795	2.572	16.4	18.9

32447 2000 SG_6 1 12.4 204°.29 5°.4/ 9.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.67	+40 36.4	2.941	3.767	9.2	19.8
12 23	7 51.68	+41 39.9	2.872	3.762	7.3	19.7
1 2	7 42.80	+42 34.9	2.831	3.757	5.8	19.6
1 12	7 32.79	+43 16.4	2.820	3.752	5.5	19.6
1 22	7 22.58	+43 41.2	2.838	3.747	6.6	19.6
2 1	7 13.19	+43 48.4	2.884	3.741	8.5	19.7
2 11	7 5.49	+43 39.9	2.955	3.735	10.4	19.9
2 21	7 0.08	+43 18.6	3.047	3.728	12.2	20.0

128994 2004 TE_{228} 1 12.4 189°.02 0°.4/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.56	+19 53.3	1.835	2.682	13.0	21.1
12 23	7 53.31	+20 6.5	1.762	2.682	9.2	20.9
1 2	7 43.75	+20 24.5	1.715	2.681	4.9	20.6
1 12	7 32.83	+20 44.1	1.696	2.679	0.4	20.3
1 22	7 21.77	+21 2.3	1.706	2.676	4.4	20.6
2 1	7 11.84	+21 17.0	1.746	2.673	8.8	20.8
2 11	7 4.11	+21 27.3	1.812	2.670	12.7	21.1
2 21	6 59.19	+21 33.3	1.899	2.666	15.9	21.3

256047 2006 UH_{91} 1 12.4 65°.34 1°.0/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.13	+23 2.0	1.590	2.450	14.0	20.7
12 23	7 52.40	+23 28.7	1.539	2.465	9.8	20.4
1 2	7 43.25	+23 57.9	1.512	2.480	5.1	20.2
1 12	7 32.81	+24 24.8	1.512	2.495	1.0	19.9
1 22	7 22.45	+24 45.7	1.541	2.510	5.0	20.3
2 1	7 13.54	+24 58.6	1.597	2.525	9.4	20.6
2 11	7 7.11	+25 3.6	1.678	2.541	13.3	20.8
2 21	7 3.69	+25 1.8	1.779	2.556	16.5	21.1

251562 2009 DQ_{71} 1 12.4 208°.94 3°.1/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.45	+12 18.4	1.830	2.666	13.5	20.8
12 23	7 51.11	+12 26.4	1.754	2.663	10.0	20.6
1 2	7 42.61	+12 46.7	1.702	2.659	6.1	20.4
1 12	7 32.79	+13 17.6	1.679	2.655	3.1	20.2
1 22	7 22.78	+13 56.1	1.684	2.651	5.0	20.3
2 1	7 13.76	+14 38.7	1.718	2.646	8.9	20.5
2 11	7 6.74	+15 22.0	1.777	2.641	12.6	20.7
2 21	7 2.36	+16 3.3	1.859	2.636	15.9	20.9

381600 2008 VT_{65} 1 12.4 318°.20 1°.9/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.09	+18 32.3	2.052	2.896	12.0	20.1
12 23	7 51.35	+17 46.1	1.970	2.886	8.6	19.9
1 2	7 42.64	+17 2.1	1.914	2.877	4.9	19.6
1 12	7 32.80	+16 20.6	1.887	2.868	1.9	19.4
1 22	7 22.87	+15 42.0	1.891	2.859	4.4	19.6
2 1	7 13.92	+15 6.7	1.924	2.851	8.2	19.8
2 11	7 6.87	+14 35.2	1.983	2.842	11.7	20.0
2 21	7 2.26	+14 7.5	2.065	2.834	14.8	20.2

26288 1998 SA_{73} 1 12.4 62°.82 5°.6/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.25	+31 31.9	1.228	2.096	16.7	17.7
12 23	7 56.62	+32 36.3	1.190	2.116	12.1	17.5
1 2	7 45.64	+33 33.0	1.175	2.136	7.6	17.3
1 12	7 32.91	+34 12.3	1.185	2.156	5.6	17.3
1 22	7 20.47	+34 28.8	1.221	2.177	8.3	17.5
2 1	7 10.23	+34 22.5	1.282	2.197	12.5	17.8
2 11	7 3.51	+33 58.3	1.365	2.218	16.4	18.1
2 21	7 0.76	+33 22.2	1.466	2.238	19.6	18.4

299436 2006 AF_{54} 1 12.4 312°.12 2°.3/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 56.95	+16 10.5	1.289	2.153	16.3	20.7
12 23	7 51.62	+16 11.7	1.210	2.135	11.9	20.4
1 2	7 43.23	+16 25.0	1.153	2.118	6.8	20.0
1 12	7 32.84	+16 48.0	1.120	2.102	2.4	19.7
1 22	7 21.97	+17 17.0	1.114	2.085	5.8	19.9
2 1	7 12.36	+17 48.3	1.132	2.070	11.4	20.1
2 11	7 5.52	+18 18.3	1.173	2.055	16.4	20.4
2 21	7 2.30	+18 44.9	1.233	2.040	20.7	20.6

242214 2003 RS_4 1 12.4 152°.82 6°.3/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.70	+ 5 18.4	1.892	2.701	14.3	20.8
12 23	7 51.79	+ 4 37.2	1.825	2.707	11.2	20.6
1 2	7 42.86	+ 4 11.7	1.782	2.714	8.2	20.4
1 12	7 32.82	+ 4 3.3	1.766	2.719	6.3	20.3
1 22	7 22.71	+ 4 11.5	1.779	2.725	7.1	20.3
2 1	7 13.65	+ 4 34.1	1.820	2.729	9.7	20.5
2 11	7 6.55	+ 5 7.1	1.886	2.734	12.8	20.7
2 21	7 1.95	+ 5 46.3	1.973	2.737	15.5	20.9

412219 2013 GP_{115} 1 12.4 210°.21 0°.0/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.72	+21 13.6	1.808	2.659	13.0	21.8
12 23	7 52.77	+21 19.5	1.734	2.656	9.2	21.5
1 2	7 43.49	+21 28.8	1.685	2.652	4.9	21.3
1 12	7 32.84	+21 38.4	1.665	2.648	0.2	20.9
1 22	7 22.06	+21 45.7	1.674	2.644	4.5	21.2
2 1	7 12.42	+21 49.0	1.711	2.639	8.9	21.5
2 11	7 4.99	+21 48.3	1.774	2.634	12.8	21.7
2 21	7 0.40	+21 43.8	1.858	2.629	16.1	21.9

368617 Sebastianotero 1 12.4 81°.43 2°.6/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.80	+27 29.5	1.909	2.764	12.2	20.7
12 23	7 51.96	+28 6.0	1.855	2.778	8.6	20.5
1 2	7 42.97	+28 40.6	1.827	2.792	4.8	20.3
1 12	7 32.83	+29 8.5	1.827	2.806	2.6	20.2
1 22	7 22.73	+29 26.2	1.857	2.819	5.2	20.4
2 1	7 13.88	+29 32.5	1.915	2.833	8.8	20.7
2 11	7 7.24	+29 28.4	1.999	2.847	12.1	20.9
2 21	7 3.30	+29 16.1	2.103	2.861	14.9	21.1

112860 2002 QF_{30} 1 12.4 349°.10 2°.9/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.78	+10 59.9	1.967	2.802	12.8	19.6
12 23	7 48.44	+11 30.9	1.892	2.800	9.5	19.3
1 2	7 41.17	+12 15.9	1.843	2.798	5.8	19.1
1 12	7 32.76	+13 12.3	1.821	2.797	3.0	18.9
1 22	7 24.18	+14 16.3	1.828	2.796	4.6	19.0
2 1	7 16.46	+15 23.3	1.865	2.795	8.1	19.3
2 11	7 10.50	+16 29.1	1.927	2.794	11.7	19.5
2 21	7 6.89	+17 30.5	2.013	2.794	14.7	19.7

80074 1999 JS_{99} 1 12.4 232°.53 4°.0/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.53	+ 5 47.1	2.819	3.620	10.3	20.2
12 23	7 47.12	+ 5 55.4	2.729	3.610	8.0	20.0
1 2	7 40.34	+ 6 15.9	2.664	3.599	5.7	19.9
1 12	7 32.73	+ 6 48.1	2.629	3.588	4.1	19.7
1 22	7 24.96	+ 7 30.5	2.624	3.577	4.6	19.8
2 1	7 17.74	+ 8 20.5	2.649	3.565	6.8	19.9
2 11	7 11.71	+ 9 15.1	2.703	3.553	9.3	20.0
2 21	7 7.33	+10 11.1	2.780	3.540	11.6	20.2

463354 2012 RG_{25} 1 12.4 103°.21 10°.0/ 8.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 11.31	+56 54.8	2.589	3.348	12.2	20.9
12 23	8 1.08	+57 54.5	2.552	3.362	11.0	20.9
1 2	7 47.83	+58 32.4	2.539	3.375	10.1	20.8
1 12	7 33.03	+58 42.4	2.550	3.389	10.0	20.8
1 22	7 18.51	+58 22.3	2.586	3.402	10.7	20.9
2 1	7 6.02	+57 34.4	2.646	3.415	11.8	21.0
2 11	6 56.79	+56 24.8	2.728	3.427	13.1	21.1
2 21	6 51.28	+55 0.6	2.828	3.440	14.3	21.2

265408 2004 TK_{82} 1 12.4 184°.00 2°.6/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.61	+28 16.2	2.020	2.873	11.7	21.3
12 23	7 51.87	+28 44.1	1.952	2.873	8.3	21.1
1 2	7 42.97	+29 9.5	1.909	2.873	4.8	20.9
1 12	7 32.84	+29 28.1	1.895	2.873	2.6	20.8
1 22	7 22.64	+29 36.7	1.911	2.873	5.1	20.9
2 1	7 13.54	+29 34.5	1.955	2.872	8.7	21.1
2 11	7 6.54	+29 22.3	2.025	2.872	12.0	21.3
2 21	7 2.20	+29 2.6	2.116	2.871	14.9	21.5

254863 Robinwarren 1 12.4 237°.08 5°.9/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.02	+ 5 25.6	2.007	2.817	13.5	20.5
12 23	7 49.97	+ 4 53.8	1.926	2.810	10.6	20.3
1 2	7 41.98	+ 4 36.9	1.870	2.803	7.8	20.2
1 12	7 32.83	+ 4 36.2	1.841	2.795	6.0	20.0
1 22	7 23.49	+ 4 51.1	1.840	2.787	6.7	20.1
2 1	7 15.00	+ 5 19.5	1.867	2.779	9.3	20.2
2 11	7 8.26	+ 5 57.6	1.919	2.771	12.4	20.4
2 21	7 3.87	+ 6 41.3	1.994	2.763	15.2	20.5

301696 2010 FN_{101} 1 12.4 273°.45 3°.1/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 58.90	+14 37.4	1.500	2.349	15.2	20.7
12 23	7 52.58	+14 21.5	1.423	2.340	11.2	20.4
1 2	7 43.56	+14 16.2	1.369	2.330	6.7	20.1
1 12	7 32.90	+14 20.5	1.341	2.320	3.2	19.9
1 22	7 21.95	+14 32.3	1.341	2.310	5.7	20.0
2 1	7 12.21	+14 49.3	1.368	2.300	10.4	20.3
2 11	7 4.93	+15 8.9	1.419	2.290	14.8	20.5
2 21	7 0.84	+15 28.8	1.490	2.280	18.6	20.7

354568 2004 TK_{121} 1 12.4 50°.98 0°.7/12.2 18

12 13	8 0.69	+22 17.2	1.234	2.103	16.5	20.5
12 23	7 53.89	+22 37.1	1.190	2.121	11.6	20.2
1 2	7 44.16	+23 0.9	1.170	2.139	6.0	20.0
1 12	7 32.92	+23 23.4	1.175	2.158	0.8	19.7
1 22	7 21.91	+23 40.0	1.206	2.177	5.6	20.0
2 1	7 12.78	+23 48.9	1.263	2.197	10.8	20.4
2 11	7 6.71	+23 50.3	1.343	2.217	15.3	20.7
2 21	7 4.19	+23 45.4	1.442	2.237	18.8	21.0

439832 1995 OO_{5} 1 12.4 119°.89 0°.2/12.5 18

12 13	8 3.58	+19 39.9	1.764	2.607	13.6	22.9
12 23	7 55.27	+20 5.6	1.712	2.630	9.6	22.7
1 2	7 44.69	+20 36.1	1.687	2.653	5.0	22.5
1 12	7 32.95	+21 7.4	1.691	2.674	0.3	22.2
1 22	7 21.35	+21 35.8	1.725	2.695	4.5	22.5
2 1	7 11.15	+21 58.8	1.789	2.714	8.8	22.8
2 11	7 3.36	+22 15.9	1.878	2.733	12.5	23.1
2 21	6 58.46	+22 27.4	1.989	2.750	15.5	23.3

364237 2006 SE_{152} 1 12.4 255°.91 6°.0/14.4 18

12 13	7 56.24	+ 6 14.4	1.738	2.560	14.8	21.0
12 23	7 50.30	+ 5 49.4	1.666	2.558	11.5	20.8
1 2	7 42.21	+ 5 41.3	1.617	2.556	8.2	20.6
1 12	7 32.85	+ 5 51.0	1.595	2.554	6.1	20.4
1 22	7 23.33	+ 6 17.1	1.599	2.553	6.9	20.5
2 1	7 14.83	+ 6 56.6	1.631	2.551	10.0	20.6
2 11	7 8.35	+ 7 44.7	1.688	2.549	13.3	20.8
2 21	7 4.49	+ 8 36.8	1.766	2.547	16.4	21.0

34774 2001 QX_{261} 1 12.4 311°.57 0°.0/12.4 18

12 13	7 56.24	+21 56.8	2.205	3.054	11.0	18.4
12 23	7 50.01	+21 48.7	2.129	3.049	7.8	18.2
1 2	7 41.94	+21 42.2	2.078	3.045	4.1	18.0
1 12	7 32.85	+21 35.3	2.057	3.041	0.2	17.6
1 22	7 23.68	+21 26.8	2.066	3.036	3.8	17.9
2 1	7 15.43	+21 15.8	2.105	3.032	7.5	18.2
2 11	7 8.94	+21 2.5	2.169	3.028	10.9	18.4
2 21	7 4.73	+20 47.4	2.257	3.024	13.7	18.6

94743 2001 XD_{78} 1 12.4 55°.47 3°.2/13.3 18

12 13	7 59.09	+14 30.0	1.370	2.224	16.1	19.3
12 23	7 52.66	+14 16.6	1.311	2.230	11.8	19.0
1 2	7 43.54	+14 15.3	1.275	2.236	7.0	18.8
1 12	7 32.92	+14 24.3	1.264	2.243	3.2	18.6
1 22	7 22.27	+14 41.2	1.281	2.250	5.8	18.8
2 1	7 13.10	+15 2.9	1.324	2.257	10.5	19.0
2 11	7 6.60	+15 26.3	1.390	2.264	14.8	19.3
2 21	7 3.35	+15 49.1	1.476	2.272	18.4	19.6

92617 2000 QU_{3} 1 12.4 106°.75 1°.5/11.9 18

12 13	8 2.75	+24 12.9	1.697	2.549	13.6	19.8
12 23	7 54.82	+24 42.8	1.647	2.570	9.5	19.6
1 2	7 44.50	+25 13.3	1.623	2.590	5.0	19.3
1 12	7 32.96	+25 39.6	1.627	2.609	1.5	19.1
1 22	7 21.56	+25 57.9	1.661	2.628	5.0	19.4
2 1	7 11.66	+26 6.9	1.723	2.647	9.2	19.7
2 11	7 4.26	+26 7.2	1.811	2.665	12.9	20.0
2 21	6 59.88	+26 0.8	1.919	2.682	15.9	20.2

237642 2001 SV_{94} 1 12.4 290°.49 3°.1/11.3 18

12 13	7 57.59	+30 39.3	2.229	3.079	10.9	20.3
12 23	7 51.07	+31 1.3	2.155	3.074	7.8	20.1
1 2	7 42.55	+31 19.1	2.108	3.069	4.7	19.9
1 12	7 32.88	+31 28.7	2.090	3.063	3.1	19.7
1 22	7 23.13	+31 27.4	2.101	3.058	5.1	19.9
2 1	7 14.39	+31 14.8	2.141	3.053	8.3	20.1
2 11	7 7.57	+30 52.2	2.207	3.048	11.4	20.2
2 21	7 3.23	+30 22.2	2.295	3.043	14.0	20.4

364266 2006 TL_{22} 1 12.4 128°.55 7°.2/15.2 18

12 13	7 56.84	+ 1 10.2	1.997	2.788	14.3	21.7
12 23	7 50.42	+ 0 36.9	1.934	2.799	11.6	21.6
1 2	7 42.16	+ 0 22.3	1.894	2.809	8.9	21.4
1 12	7 32.89	+ 0 27.9	1.880	2.819	7.3	21.4
1 22	7 23.59	+ 0 52.6	1.895	2.829	7.7	21.4
2 1	7 15.26	+ 1 33.5	1.937	2.838	9.7	21.5
2 11	7 8.72	+ 2 25.9	2.004	2.847	12.3	21.7
2 21	7 4.50	+ 3 24.4	2.094	2.855	14.8	21.9

357534 2004 RO_{186} 1 12.4 93°.13 2°.2/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 3.65	+26 38.4	1.496	2.354	14.8	21.2
12 23	7 55.73	+26 50.7	1.443	2.368	10.4	20.9
1 2	7 45.08	+27 0.5	1.416	2.382	5.6	20.7
1 12	7 33.01	+27 3.2	1.415	2.396	2.2	20.5
1 22	7 21.12	+26 55.9	1.443	2.410	5.6	20.8
2 1	7 10.96	+26 38.6	1.498	2.423	10.2	21.1
2 11	7 3.66	+26 13.6	1.577	2.436	14.2	21.3
2 21	6 59.73	+25 43.8	1.676	2.449	17.5	21.6

306841 2001 SL_{47} 1 12.4 172°.20 0°.8/12.8 18

12 13	7 57.55	+17 45.2	2.459	3.294	10.5	21.6
12 23	7 50.77	+18 7.8	2.385	3.299	7.5	21.4
1 2	7 42.32	+18 35.9	2.339	3.302	4.0	21.2
1 12	7 32.91	+19 6.9	2.322	3.305	0.8	21.0
1 22	7 23.40	+19 38.1	2.338	3.307	3.5	21.2
2 1	7 14.69	+20 7.4	2.383	3.308	6.9	21.4
2 11	7 7.56	+20 33.3	2.457	3.309	10.0	21.6
2 21	7 2.51	+20 55.0	2.554	3.309	12.6	21.8

236193 2005 WC_{47} 1 12.4 71°.72 0°.5/12.6 17

12 13	8 2.26	+19 44.7	1.300	2.161	16.4	20.7
12 23	7 54.84	+19 56.1	1.256	2.182	11.5	20.5
1 2	7 44.62	+20 14.0	1.236	2.203	6.1	20.2
1 12	7 33.00	+20 34.1	1.241	2.224	0.6	19.9
1 22	7 21.62	+20 52.3	1.274	2.245	5.3	20.3
2 1	7 12.06	+21 6.4	1.333	2.266	10.4	20.7
2 11	7 5.46	+21 15.7	1.416	2.287	14.8	21.0
2 21	7 2.31	+21 20.2	1.518	2.308	18.3	21.3

150678 2001 OY_{8} 1 12.4 88°.34 7°.1/15.9 18

12 13	7 56.48	+ 0 33.1	1.857	2.650	15.1	19.4
12 23	7 50.20	+ 0 25.6	1.803	2.670	12.1	19.2
1 2	7 42.04	+ 0 39.8	1.771	2.689	9.2	19.1
1 12	7 32.90	+ 1 15.7	1.766	2.709	7.3	19.0
1 22	7 23.79	+ 2 10.7	1.788	2.728	7.6	19.1
2 1	7 15.76	+ 3 20.0	1.838	2.746	9.7	19.3
2 11	7 9.65	+ 4 37.5	1.913	2.765	12.4	19.5
2 21	7 5.93	+ 5 57.3	2.011	2.783	15.0	19.7

287767 2003 SS_{67} 1 12.4 135°.35 1°.1/12.1 18

12 13	8 1.35	+23 39.7	1.943	2.790	12.4	21.4
12 23	7 53.71	+24 4.1	1.883	2.804	8.7	21.2
1 2	7 43.92	+24 29.6	1.850	2.817	4.6	21.0
1 12	7 32.98	+24 52.1	1.846	2.829	1.1	20.8
1 22	7 22.06	+25 8.5	1.873	2.840	4.5	21.0
2 1	7 12.37	+25 17.3	1.928	2.851	8.4	21.3
2 11	7 4.86	+25 18.9	2.010	2.861	11.9	21.5
2 21	7 0.07	+25 14.5	2.114	2.871	14.8	21.7

401026 2011 SU_{98} 1 12.4 212°.83 2°.9/13.4 18

12 13	7 59.14	+13 6.0	1.800	2.636	13.7	22.3
12 23	7 52.41	+13 8.4	1.721	2.630	10.1	22.0
1 2	7 43.38	+13 22.2	1.667	2.624	6.1	21.8
1 12	7 32.96	+13 45.8	1.640	2.617	3.0	21.6
1 22	7 22.31	+14 16.5	1.643	2.610	5.0	21.7
2 1	7 12.66	+14 51.2	1.674	2.602	9.1	21.9
2 11	7 5.09	+15 26.7	1.731	2.593	13.0	22.1
2 21	7 0.27	+16 0.9	1.809	2.584	16.3	22.3

344446 2002 JO_{54} 1 12.4 280°.82 3°.6/10.9 18

12 13	7 58.40	+29 56.7	2.026	2.879	11.7	20.6
12 23	7 52.04	+30 45.2	1.938	2.858	8.5	20.4
1 2	7 43.27	+31 31.9	1.877	2.838	5.2	20.2
1 12	7 32.97	+32 10.9	1.845	2.817	3.6	20.0
1 22	7 22.29	+32 37.6	1.841	2.797	5.9	20.1
2 1	7 12.53	+32 49.7	1.866	2.776	9.5	20.3
2 11	7 4.86	+32 47.8	1.916	2.755	13.0	20.5
2 21	7 0.00	+32 34.6	1.986	2.734	16.0	20.6

238113 2003 KE_{37} 1 12.4 251°.65 2°.2/13.2 18

12 13	7 58.50	+14 44.6	1.648	2.494	14.3	21.1
12 23	7 52.22	+15 2.9	1.566	2.482	10.4	20.8
1 2	7 43.40	+15 33.2	1.508	2.470	6.0	20.5
1 12	7 32.98	+16 12.8	1.477	2.457	2.2	20.3
1 22	7 22.19	+16 57.8	1.474	2.444	5.0	20.4
2 1	7 12.43	+17 44.0	1.500	2.431	9.6	20.6
2 11	7 4.91	+18 28.0	1.551	2.418	14.0	20.9
2 21	7 0.39	+19 7.4	1.622	2.404	17.6	21.1

319830 2006 VO_{123} 1 12.4 53°.24 3°.3/11.4 18

12 13	7 59.61	+28 4.9	1.559	2.422	14.0	21.2
12 23	7 52.98	+28 50.8	1.507	2.433	10.0	21.0
1 2	7 43.70	+29 34.6	1.479	2.444	5.7	20.7
1 12	7 32.98	+30 9.6	1.479	2.456	3.3	20.6
1 22	7 22.29	+30 31.4	1.506	2.467	6.2	20.8
2 1	7 13.11	+30 38.4	1.559	2.479	10.3	21.1
2 11	7 6.58	+30 32.2	1.637	2.491	14.0	21.4
2 21	7 3.27	+30 15.9	1.734	2.504	17.1	21.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
400287 2007 TE_{10}			1 12.4 134°.80		1°.0/12.8 18	
	h m	° ′			°	m
12 13	8 0.26	+17 40.9	1.964	2.804	12.6	21.8
12 23	7 52.87	+17 56.9	1.903	2.818	8.9	21.6
1 2	7 43.47	+18 19.2	1.868	2.832	4.8	21.4
1 12	7 32.97	+18 44.8	1.863	2.846	1.1	21.2
1 22	7 22.50	+19 10.9	1.888	2.858	4.1	21.4
2 1	7 13.15	+19 35.0	1.943	2.870	8.1	21.7
2 11	7 5.84	+19 55.7	2.024	2.881	11.6	21.9
2 21	7 1.10	+20 12.5	2.127	2.891	14.5	22.2
245932 2006 RP_{34}			1 12.4 106°.73		2°.0/11.7 18	
12 13	7 57.22	+28 5.8	2.464	3.311	10.1	20.7
12 23	7 50.53	+28 17.9	2.401	3.320	7.1	20.5
1 2	7 42.16	+28 27.3	2.365	3.329	4.0	20.3
1 12	7 32.92	+28 31.1	2.359	3.338	2.0	20.2
1 22	7 23.71	+28 27.6	2.384	3.347	4.1	20.4
2 1	7 15.46	+28 16.3	2.438	3.355	7.2	20.6
2 11	7 8.93	+27 58.2	2.519	3.364	10.1	20.8
2 21	7 4.56	+27 35.0	2.623	3.372	12.5	21.0
122506 2000 QH_{197}			1 12.4 226°.16		1°.7/11.9 18	
12 13	8 1.21	+24 47.2	1.712	2.566	13.4	20.4
12 23	7 54.12	+25 16.5	1.636	2.559	9.5	20.1
1 2	7 44.39	+25 47.1	1.585	2.552	5.1	19.9
1 12	7 33.06	+26 14.0	1.562	2.544	1.7	19.6
1 22	7 21.47	+26 32.9	1.568	2.535	5.3	19.8
2 1	7 11.10	+26 41.7	1.602	2.526	9.8	20.1
2 11	7 3.16	+26 40.8	1.661	2.517	13.8	20.3
2 21	6 58.35	+26 32.1	1.741	2.507	17.2	20.5
62365 2000 SY_{149}			1 12.4 115°.07		4°.6/10.7 18	
12 13	8 1.51	+34 15.9	2.146	2.990	11.5	19.8
12 23	7 53.84	+35 4.0	2.094	3.005	8.5	19.7
1 2	7 44.01	+35 44.6	2.069	3.020	5.7	19.5
1 12	7 33.03	+36 12.2	2.072	3.035	4.6	19.5
1 22	7 22.11	+36 23.7	2.106	3.049	6.3	19.6
2 1	7 12.45	+36 18.8	2.167	3.063	9.1	19.8
2 11	7 5.01	+36 0.0	2.254	3.076	11.9	20.0
2 21	7 0.30	+35 30.9	2.362	3.090	14.2	20.2
258519 2002 AS_{182}			1 12.5 7°.54		5°.9/ 9.8 18	
12 13	7 57.70	+31 35.0	1.478	2.346	14.4	19.5
12 23	7 52.09	+33 14.7	1.422	2.346	10.6	19.3
1 2	7 43.48	+34 51.1	1.390	2.348	7.1	19.1
1 12	7 33.02	+36 14.0	1.385	2.350	6.0	19.0
1 22	7 22.30	+37 15.3	1.406	2.353	8.5	19.2
2 1	7 13.03	+37 51.5	1.453	2.357	12.2	19.4
2 11	7 6.60	+38 4.5	1.522	2.361	15.7	19.6
2 21	7 3.73	+37 58.6	1.609	2.366	18.8	19.9
110628 2001 TU_{163}			1 12.5 242°.82		0°.2/12.4 17	
12 13	7 55.01	+21 23.4	2.525	3.370	9.9	20.5
12 23	7 49.08	+21 40.5	2.441	3.361	7.0	20.3
1 2	7 41.50	+22 0.4	2.385	3.351	3.7	20.1
1 12	7 32.94	+22 20.6	2.358	3.341	0.2	19.7
1 22	7 24.22	+22 38.9	2.362	3.331	3.5	20.0
2 1	7 16.22	+22 53.6	2.396	3.321	6.9	20.2
2 11	7 9.71	+23 3.9	2.457	3.311	10.0	20.4
2 21	7 5.22	+23 9.9	2.542	3.300	12.6	20.6
519834 2013 KH_{19}			1 12.5 103°.93		1°.1/12.8 18	
12 13	7 59.20	+19 9.6	2.157	2.998	11.6	20.7
12 23	7 51.94	+18 48.7	2.097	3.013	8.2	20.5
1 2	7 42.92	+18 31.1	2.064	3.028	4.5	20.3
1 12	7 33.00	+18 15.6	2.060	3.042	1.2	20.1
1 22	7 23.18	+18 1.5	2.087	3.057	3.8	20.3
2 1	7 14.45	+17 48.1	2.144	3.071	7.5	20.5
2 11	7 7.58	+17 35.4	2.228	3.085	10.7	20.8
2 21	7 3.04	+17 23.3	2.335	3.098	13.4	21.0
30605 2204 P–L			1 12.5 15°.83		4°.7/11.5 18	
12 13	8 1.73	+30 41.5	1.128	2.004	17.2	18.3
12 23	7 55.26	+31 8.2	1.076	2.006	12.5	18.0
1 2	7 45.19	+31 28.0	1.045	2.010	7.5	17.8
1 12	7 33.10	+31 33.1	1.038	2.014	4.7	17.6
1 22	7 21.09	+31 19.1	1.056	2.020	7.9	17.8
2 1	7 11.21	+30 46.9	1.098	2.026	12.8	18.1
2 11	7 4.93	+30 1.2	1.162	2.033	17.4	18.4
2 21	7 2.80	+29 7.6	1.242	2.040	21.1	18.7
87376 2000 QN_{57}			1 12.5 26°.82		3°.4/13.9 18	
12 13	7 54.87	+10 3.6	1.038	1.903	19.2	17.3
12 23	7 50.20	+11 10.7	0.992	1.916	14.1	17.0
1 2	7 42.47	+12 43.8	0.967	1.930	8.4	16.7
1 12	7 33.00	+14 35.9	0.966	1.946	3.6	16.5
1 22	7 23.50	+16 35.5	0.990	1.962	6.1	16.7
2 1	7 15.73	+18 31.2	1.038	1.980	11.5	17.1
2 11	7 11.03	+20 14.5	1.109	2.000	16.4	17.4
2 21	7 9.97	+21 40.8	1.198	2.020	20.4	17.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
209629 2005 AL_{53}			1 12.5 320°.89		2°.2/13.1 18	
	h m	° ′			°	m
12 13	7 56.41	+15 48.0	1.375	2.236	15.7	19.9
12 23	7 51.09	+15 56.0	1.300	2.223	11.4	19.6
1 2	7 42.95	+16 16.2	1.246	2.211	6.5	19.3
1 12	7 33.03	+16 46.1	1.219	2.200	2.3	19.0
1 22	7 22.75	+17 21.7	1.217	2.189	5.5	19.2
2 1	7 13.69	+17 58.8	1.242	2.178	10.7	19.4
2 11	7 7.22	+18 34.1	1.289	2.169	15.4	19.7
2 21	7 4.09	+19 5.1	1.356	2.160	19.4	19.9
334590 2002 TQ_{194}			1 12.5 121°.76		6°.3/15.8 18	
12 13	7 53.89	− 1 8.5	2.665	3.433	11.7	21.4
12 23	7 48.03	− 1 29.4	2.602	3.448	9.6	21.3
1 2	7 40.84	− 1 34.3	2.563	3.463	7.6	21.2
1 12	7 32.94	− 1 22.6	2.552	3.478	6.4	21.1
1 22	7 25.03	− 0 55.1	2.569	3.492	6.6	21.2
2 1	7 17.83	− 0 14.2	2.615	3.505	8.0	21.3
2 11	7 11.95	+ 0 36.4	2.688	3.518	9.9	21.4
2 21	7 7.80	+ 1 32.6	2.784	3.531	11.9	21.6
24219 Chrisodom			1 12.5 205°.67		0°.9/12.7 18	
12 13	8 1.61	+18 34.7	1.738	2.583	13.7	18.9
12 23	7 54.28	+18 45.5	1.661	2.579	9.8	18.7
1 2	7 44.45	+19 2.8	1.608	2.573	5.3	18.4
1 12	7 33.11	+19 23.4	1.584	2.567	1.0	18.1
1 22	7 21.54	+19 44.3	1.590	2.560	4.7	18.4
2 1	7 11.11	+20 2.8	1.624	2.553	9.3	18.6
2 11	7 2.98	+20 17.7	1.684	2.544	13.4	18.8
2 21	6 57.83	+20 28.8	1.765	2.535	16.9	19.1
369610 2011 CH_{68}			1 12.5 167°.32		2°.9/13.6 18	
12 13	7 56.00	+12 33.4	2.060	2.893	12.3	20.7
12 23	7 49.92	+12 31.3	1.987	2.894	9.1	20.5
1 2	7 41.99	+12 39.3	1.940	2.896	5.6	20.3
1 12	7 32.99	+12 56.4	1.921	2.897	3.0	20.1
1 22	7 23.89	+13 20.3	1.932	2.898	4.6	20.2
2 1	7 15.70	+13 48.7	1.972	2.899	8.0	20.4
2 11	7 9.26	+14 18.9	2.037	2.899	11.3	20.7
2 21	7 5.13	+14 48.8	2.126	2.900	14.2	20.9
234625 2002 AL_{199}			1 12.5 119°.95		1°.3/12.1 18	
12 13	8 3.32	+24 43.6	1.681	2.533	13.7	20.2
12 23	7 55.32	+24 56.0	1.625	2.547	9.7	20.0
1 2	7 44.86	+25 8.2	1.594	2.561	5.1	19.8
1 12	7 33.12	+25 15.9	1.592	2.574	1.3	19.5
1 22	7 21.49	+25 16.3	1.619	2.587	5.0	19.8
2 1	7 11.36	+25 8.9	1.675	2.600	9.3	20.1
2 11	7 3.78	+24 54.9	1.755	2.611	13.2	20.4
2 21	6 59.28	+24 36.1	1.857	2.623	16.3	20.6
502294 2015 BT_{143}			1 12.5 126°.52		0°.1/12.5 18	
12 13	7 54.89	+18 38.1	2.332	3.176	10.7	21.1
12 23	7 49.06	+19 24.3	2.262	3.180	7.5	20.9
1 2	7 41.52	+20 16.6	2.219	3.185	4.0	20.7
1 12	7 32.98	+21 11.5	2.206	3.189	0.3	20.4
1 22	7 24.33	+22 5.1	2.223	3.193	3.6	20.7
2 1	7 16.45	+22 54.4	2.271	3.197	7.1	20.9
2 11	7 10.17	+23 37.2	2.345	3.201	10.3	21.1
2 21	7 6.00	+24 12.8	2.443	3.205	12.9	21.3
364856 2008 DV_{10}			1 12.5 46°.66		2°.4/13.5 18	
12 13	7 56.53	+13 1.7	1.542	2.390	15.0	20.2
12 23	7 50.76	+13 38.2	1.481	2.397	10.9	19.9
1 2	7 42.59	+14 29.7	1.443	2.404	6.4	19.7
1 12	7 33.04	+15 32.2	1.431	2.411	2.6	19.5
1 22	7 23.36	+16 40.2	1.448	2.419	5.0	19.6
2 1	7 14.91	+17 48.2	1.493	2.427	9.4	19.9
2 11	7 8.76	+18 51.4	1.562	2.435	13.6	20.2
2 21	7 5.53	+19 47.2	1.652	2.443	17.0	20.4
157122 2004 NG_{5}			1 12.5 103°.23		1°.0/12.8 18	
12 13	8 1.88	+17 36.8	1.663	2.509	14.2	20.6
12 23	7 54.20	+18 0.4	1.614	2.532	10.0	20.4
1 2	7 44.24	+18 31.5	1.590	2.555	5.4	20.2
1 12	7 33.11	+19 6.2	1.594	2.577	1.1	19.9
1 22	7 22.10	+19 40.5	1.628	2.599	4.5	20.2
2 1	7 12.52	+20 11.5	1.690	2.620	8.9	20.5
2 11	7 5.34	+20 37.4	1.778	2.640	12.8	20.8
2 21	7 1.07	+20 57.9	1.888	2.659	15.9	21.1
54647 2000 ST_{304}			1 12.5 218°.21		3°.8/10.5 17	
12 13	7 57.94	+36 1.2	3.071	3.905	8.7	20.0
12 23	7 51.04	+36 32.9	2.993	3.896	6.5	19.8
1 2	7 42.51	+36 58.2	2.941	3.887	4.6	19.7
1 12	7 33.04	+37 13.6	2.920	3.877	3.9	19.6
1 22	7 23.46	+37 16.9	2.930	3.867	5.1	19.7
2 1	7 14.64	+37 7.6	2.969	3.856	7.3	19.8
2 11	7 7.33	+36 46.9	3.035	3.845	9.5	20.0
2 21	7 2.03	+36 17.4	3.124	3.834	11.4	20.1

332771 2009 UG_{148} 1 12.5 146°.71 1°.7/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 57.68	+25 8.7	2.188	3.037	11.1	21.5
12 23	7 51.12	+25 46.0	2.122	3.043	7.8	21.3
1 2	7 42.63	+26 24.0	2.082	3.048	4.2	21.1
1 12	7 33.04	+26 58.3	2.072	3.053	1.7	20.9
1 22	7 23.37	+27 25.7	2.092	3.057	4.4	21.1
2 1	7 14.68	+27 44.3	2.142	3.062	7.9	21.3
2 11	7 7.84	+27 53.9	2.218	3.066	11.1	21.6
2 21	7 3.40	+27 55.8	2.316	3.069	13.8	21.7

76054 2000 DE_{61} 1 12.5 336°.31 2°.5/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.00	+26 10.5	1.404	2.273	14.9	19.2
12 23	7 52.27	+26 39.0	1.334	2.264	10.6	19.0
1 2	7 43.58	+27 8.0	1.288	2.256	5.8	18.7
1 12	7 33.09	+27 31.4	1.268	2.248	2.5	18.4
1 22	7 22.36	+27 44.6	1.274	2.241	6.1	18.7
2 1	7 13.06	+27 45.5	1.306	2.235	11.0	18.9
2 11	7 6.56	+27 35.0	1.361	2.230	15.4	19.2
2 21	7 3.56	+27 15.8	1.434	2.225	19.2	19.4

188688 2005 SX_{271} 1 12.5 296°.91 1°.1/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.03	+18 14.7	1.749	2.601	13.3	20.8
12 23	7 51.04	+18 20.5	1.672	2.593	9.5	20.5
1 2	7 42.75	+18 33.1	1.620	2.585	5.2	20.2
1 12	7 33.06	+18 50.1	1.595	2.578	1.2	19.9
1 22	7 23.18	+19 8.5	1.599	2.571	4.5	20.2
2 1	7 14.34	+19 26.1	1.631	2.563	9.0	20.4
2 11	7 7.64	+19 41.1	1.689	2.556	13.0	20.6
2 21	7 3.71	+19 52.9	1.767	2.549	16.4	20.8

436351 2010 JL_{79} 1 12.5 297°.01 3°.1/10.7 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.11	+27 23.6	2.156	3.010	11.0	20.7
12 23	7 50.36	+28 40.7	2.071	2.992	7.9	20.5
1 2	7 42.43	+29 59.8	2.012	2.975	4.7	20.3
1 12	7 33.06	+31 14.7	1.983	2.957	3.1	20.2
1 22	7 23.27	+32 19.6	1.984	2.940	5.5	20.3
2 1	7 14.24	+33 10.7	2.014	2.923	9.0	20.5
2 11	7 7.03	+33 47.0	2.069	2.905	12.3	20.6
2 21	7 2.37	+34 9.5	2.146	2.888	15.1	20.8

458200 2010 RZ_{39} 1 12.5 59°.51 4°.7/11.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.02	+33 32.3	1.483	2.336	15.1	20.6
12 23	7 57.94	+33 43.4	1.449	2.367	11.0	20.5
1 2	7 46.15	+33 43.6	1.440	2.398	6.8	20.3
1 12	7 33.21	+33 27.9	1.458	2.429	4.7	20.2
1 22	7 20.88	+32 55.0	1.503	2.460	6.9	20.5
2 1	7 10.68	+32 7.7	1.576	2.490	10.6	20.7
2 11	7 3.62	+31 11.2	1.673	2.521	14.1	21.0
2 21	7 0.03	+30 10.6	1.790	2.551	17.0	21.3

244324 2002 HT_{13} 1 12.5 268°.75 13°.2/ 4.9 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.04	+38 54.2	1.073	1.937	18.8	19.8
12 23	8 2.39	+42 45.9	1.020	1.929	15.4	19.5
1 2	7 50.15	+46 30.7	0.992	1.921	13.3	19.4
1 12	7 33.46	+49 41.3	0.988	1.914	13.9	19.4
1 22	7 15.00	+51 56.8	1.009	1.906	16.8	19.5
2 1	6 58.50	+53 11.1	1.050	1.898	20.5	19.7
2 11	6 47.18	+53 33.1	1.108	1.890	24.0	19.9
2 21	6 42.52	+53 18.0	1.177	1.882	27.0	20.1

38196 1999 LQ_{15} 1 12.5 145°.25 5°.5/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.18	+ 3 6.4	2.225	3.016	13.0	19.6
12 23	7 51.27	+ 3 9.4	2.159	3.030	10.2	19.4
1 2	7 42.64	+ 3 29.1	2.117	3.043	7.5	19.3
1 12	7 33.08	+ 4 5.2	2.104	3.055	5.6	19.2
1 22	7 23.48	+ 4 55.3	2.121	3.067	6.1	19.2
2 1	7 14.77	+ 5 55.8	2.167	3.077	8.4	19.4
2 11	7 7.72	+ 7 1.9	2.241	3.087	11.1	19.6
2 21	7 2.84	+ 8 9.5	2.338	3.095	13.6	19.8

314195 2005 JH_{143} 1 12.5 33°.35 6°.6/ 9.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.44	+32 38.7	1.471	2.334	14.7	19.9
12 23	7 54.13	+34 35.0	1.419	2.339	10.9	19.7
1 2	7 44.64	+36 26.7	1.391	2.345	7.6	19.5
1 12	7 33.18	+38 2.1	1.391	2.351	6.7	19.5
1 22	7 21.43	+39 12.4	1.417	2.357	9.1	19.6
2 1	7 11.21	+39 54.2	1.469	2.364	12.7	19.9
2 11	7 4.01	+40 10.0	1.543	2.371	16.1	20.1
2 21	7 0.57	+40 5.4	1.635	2.379	19.0	20.3

406136 2006 VL_{108} 1 12.5 31°.45 2°.4/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.85	+16 25.8	1.496	2.351	15.0	20.6
12 23	7 51.68	+16 7.2	1.436	2.357	10.8	20.3
1 2	7 43.06	+15 57.2	1.400	2.364	6.2	20.1
1 12	7 33.10	+15 54.4	1.391	2.371	2.5	19.9
1 22	7 23.15	+15 57.1	1.409	2.379	5.2	20.1
2 1	7 14.56	+16 3.2	1.454	2.387	9.7	20.3
2 11	7 8.41	+16 11.0	1.522	2.396	13.8	20.6
2 21	7 5.26	+16 18.9	1.612	2.405	17.2	20.9

235618 2004 QU_{7} 1 12.5 170°.80 1°.3/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 0.82	+17 44.0	1.860	2.702	13.1	21.2
12 23	7 53.50	+17 47.7	1.790	2.706	9.3	20.9
1 2	7 43.96	+17 57.7	1.746	2.709	5.1	20.7
1 12	7 33.15	+18 11.6	1.730	2.712	1.3	20.4
1 22	7 22.26	+18 26.8	1.744	2.714	4.4	20.7
2 1	7 12.50	+18 41.3	1.787	2.715	8.6	20.9
2 11	7 4.88	+18 53.9	1.856	2.715	12.4	21.2
2 21	6 59.98	+19 3.9	1.947	2.715	15.6	21.4

123064 2000 SN_{303} 1 12.5 150°.23 0°.6/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.56	+22 29.0	1.812	2.661	13.0	20.3
12 23	7 54.06	+22 44.8	1.748	2.669	9.2	20.1
1 2	7 44.26	+23 2.9	1.709	2.676	4.8	19.8
1 12	7 33.17	+23 19.5	1.700	2.683	0.6	19.5
1 22	7 22.06	+23 31.5	1.720	2.689	4.5	19.8
2 1	7 12.20	+23 37.5	1.768	2.694	8.8	20.1
2 11	7 4.64	+23 37.4	1.843	2.699	12.6	20.3
2 21	6 59.93	+23 32.4	1.939	2.704	15.7	20.6

490383 2009 OK_{22} 1 12.5 117°.54 4°.6/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.38	+ 4 18.2	2.420	3.215	12.0	21.6
12 23	7 49.87	+ 4 35.9	2.360	3.236	9.3	21.4
1 2	7 41.87	+ 5 8.6	2.325	3.257	6.6	21.3
1 12	7 33.07	+ 5 54.9	2.320	3.277	4.7	21.2
1 22	7 24.28	+ 6 52.3	2.345	3.296	5.2	21.3
2 1	7 16.31	+ 7 57.0	2.400	3.314	7.4	21.4
2 11	7 9.87	+ 9 4.8	2.483	3.332	10.0	21.6
2 21	7 5.37	+10 12.1	2.590	3.350	12.3	21.8

1109 Tata 1 12.5 208°.83 0°.6/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.49	+19 0.8	2.683	3.523	9.6	15.6
12 23	7 48.61	+19 5.4	2.604	3.519	6.8	15.4
1 2	7 41.25	+19 13.7	2.551	3.516	3.7	15.2
1 12	7 33.04	+19 24.0	2.529	3.512	0.7	14.9
1 22	7 24.74	+19 34.7	2.538	3.508	3.2	15.1
2 1	7 17.13	+19 44.4	2.577	3.504	6.4	15.3
2 11	7 10.91	+19 52.2	2.644	3.500	9.3	15.5
2 21	7 6.53	+19 57.8	2.735	3.495	11.7	15.7

408902 2001 VA_{29} 1 12.5 56°.77 4°.8/10.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.82	+30 54.3	1.560	2.421	14.1	20.6
12 23	7 53.88	+32 7.7	1.520	2.442	10.2	20.4
1 2	7 44.24	+33 15.7	1.504	2.463	6.4	20.2
1 12	7 33.18	+34 10.0	1.516	2.485	4.9	20.2
1 22	7 22.23	+34 45.4	1.555	2.507	7.2	20.4
2 1	7 12.90	+35 0.6	1.620	2.529	10.8	20.6
2 11	7 6.34	+34 58.3	1.709	2.551	14.2	20.9
2 21	7 3.07	+34 42.6	1.818	2.573	17.0	21.2

492431 2014 MF_{20} 1 12.5 152°.22 0°.8/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.99	+17 21.9	1.956	2.798	12.5	21.6
12 23	7 52.16	+17 57.2	1.889	2.806	8.9	21.4
1 2	7 43.25	+18 40.2	1.848	2.813	4.8	21.2
1 12	7 33.14	+19 27.2	1.837	2.819	0.8	20.9
1 22	7 22.93	+20 14.2	1.855	2.825	4.1	21.2
2 1	7 13.75	+20 57.6	1.903	2.831	8.2	21.4
2 11	7 6.55	+21 35.5	1.977	2.835	11.8	21.7
2 21	7 1.91	+22 6.9	2.074	2.840	14.8	21.9

358744 2008 CR_{118} 1 12.5 213°.62 0°.4/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.72	+18 44.6	1.921	2.751	13.2	23.3
12 23	7 58.64	+19 16.7	1.828	2.739	9.5	23.0
1 2	7 46.87	+19 55.6	1.762	2.726	5.1	22.7
1 12	7 33.32	+20 37.0	1.727	2.710	0.5	22.3
1 22	7 19.30	+21 16.4	1.723	2.692	4.6	22.6
2 1	7 6.25	+21 50.5	1.751	2.672	9.3	22.9
2 11	6 55.46	+22 17.7	1.807	2.650	13.4	23.1
2 21	6 47.72	+22 38.3	1.885	2.626	16.9	23.3

251601 2009 HR_{75} 1 12.5 113°.33 2°.7/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.78	+12 3.3	1.939	2.771	13.1	21.6
12 23	7 51.21	+12 28.1	1.880	2.786	9.5	21.4
1 2	7 42.69	+13 4.9	1.845	2.802	5.7	21.2
1 12	7 33.12	+13 51.1	1.839	2.816	2.8	21.1
1 22	7 23.53	+14 42.9	1.863	2.830	4.5	21.2
2 1	7 14.98	+15 36.3	1.916	2.844	8.1	21.4
2 11	7 8.35	+16 28.0	1.996	2.858	11.5	21.7
2 21	7 4.16	+17 15.5	2.098	2.870	14.4	21.9

152528 2006 VU_{124} 1 12.5 57°.27 0°.6/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.89	+21 54.4	2.468	3.316	10.0	19.8
12 23	7 48.32	+22 28.6	2.398	3.319	7.0	19.6
1 2	7 41.15	+23 5.8	2.355	3.322	3.7	19.4
1 12	7 33.05	+23 42.9	2.342	3.325	0.6	19.2
1 22	7 24.86	+24 16.8	2.359	3.328	3.5	19.4
2 1	7 17.43	+24 45.5	2.406	3.331	6.9	19.6
2 11	7 11.52	+25 7.9	2.480	3.334	9.9	19.8
2 21	7 7.62	+25 23.9	2.577	3.337	12.4	20.0

350670 2001 UV_{76} 1 12.5 68°.44 2°.4/11.8 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 2.77	+24 58.5	1.305	2.170	16.0	21.0
12 23	7 55.39	+25 44.1	1.263	2.192	11.2	20.8
1 2	7 45.07	+26 30.3	1.245	2.213	6.0	20.6
1 12	7 33.23	+27 9.9	1.254	2.235	2.4	20.4
1 22	7 21.61	+27 37.6	1.289	2.256	6.1	20.7
2 1	7 11.88	+27 51.7	1.351	2.278	10.9	21.0
2 11	7 5.23	+27 53.3	1.435	2.299	15.1	21.3
2 21	7 2.16	+27 45.4	1.539	2.321	18.4	21.6

361655 2007 TL_{338} 1 12.5 301°.89 4°.9/10.9 18

12 13	8 1.10	+31 8.7	1.496	2.359	14.5	20.9
12 23	7 54.50	+32 2.1	1.428	2.351	10.6	20.6
1 2	7 44.82	+32 51.3	1.384	2.344	6.7	20.4
1 12	7 33.23	+33 28.2	1.366	2.337	4.9	20.2
1 22	7 21.38	+33 47.0	1.375	2.331	7.5	20.4
2 1	7 11.01	+33 45.9	1.410	2.324	11.7	20.6
2 11	7 3.56	+33 27.4	1.468	2.318	15.6	20.8
2 21	6 59.75	+32 56.3	1.545	2.312	19.0	21.0

398838 2013 CP_{17} 1 12.5 155°.85 1°.7/11.9 18

12 13	8 0.22	+23 54.3	1.584	2.443	14.0	21.1
12 23	7 53.51	+24 34.5	1.519	2.445	9.9	20.9
1 2	7 44.14	+25 17.6	1.479	2.446	5.3	20.6
1 12	7 33.20	+25 57.7	1.466	2.448	1.7	20.4
1 22	7 22.10	+26 29.8	1.481	2.449	5.4	20.6
2 1	7 12.34	+26 51.2	1.524	2.450	10.0	20.9
2 11	7 5.13	+27 1.8	1.591	2.451	14.1	21.2
2 21	7 1.12	+27 3.1	1.678	2.451	17.5	21.4

368985 2007 ER_{135} 1 12.5 177°.87 2°.5/13.5 18

12 13	7 56.06	+13 33.2	2.064	2.900	12.2	21.4
12 23	7 50.02	+13 39.5	1.991	2.900	8.9	21.2
1 2	7 42.11	+13 55.5	1.943	2.901	5.3	21.0
1 12	7 33.10	+14 19.6	1.923	2.901	2.5	20.8
1 22	7 23.98	+14 49.3	1.933	2.901	4.3	20.9
2 1	7 15.75	+15 21.8	1.973	2.901	7.9	21.1
2 11	7 9.28	+15 54.7	2.038	2.901	11.3	21.4
2 21	7 5.13	+16 25.8	2.126	2.900	14.2	21.6

331588 2001 TZ_{22} 1 12.5 59°.97 8°.5/16.9 18

12 13	7 53.64	− 4 56.2	2.161	2.921	14.3	20.6
12 23	7 48.09	− 5 28.8	2.108	2.941	12.1	20.5
1 2	7 40.98	− 5 39.3	2.078	2.961	10.0	20.4
1 12	7 33.05	− 5 26.3	2.073	2.981	8.7	20.3
1 22	7 25.15	− 4 51.1	2.094	3.001	8.7	20.4
2 1	7 18.14	− 3 56.9	2.141	3.022	10.0	20.5
2 11	7 12.73	− 2 49.1	2.213	3.042	11.8	20.7
2 21	7 9.34	− 1 33.7	2.308	3.062	13.8	20.8

238341 2004 BA_{81} 1 12.5 334°.62 0°.5/12.7 18

12 13	7 56.00	+20 5.3	2.125	2.973	11.4	20.3
12 23	7 49.96	+20 2.0	2.051	2.971	8.1	20.1
1 2	7 42.06	+20 2.2	2.004	2.969	4.3	19.9
1 12	7 33.10	+20 3.9	1.984	2.968	0.6	19.6
1 22	7 24.07	+20 5.4	1.995	2.966	3.8	19.8
2 1	7 15.96	+20 5.6	2.035	2.964	7.6	20.0
2 11	7 9.63	+20 3.9	2.101	2.963	11.1	20.3
2 21	7 5.61	+20 0.2	2.190	2.961	13.9	20.5

125802 2001 XS_{157} 1 12.5 101°.55 3°.1/13.3 18

12 13	8 0.98	+14 12.6	1.551	2.395	15.1	19.5
12 23	7 53.74	+13 57.9	1.496	2.409	11.0	19.3
1 2	7 44.11	+13 53.9	1.464	2.424	6.6	19.0
1 12	7 33.20	+13 59.3	1.460	2.438	3.2	18.9
1 22	7 22.37	+14 11.8	1.484	2.452	5.4	19.0
2 1	7 12.95	+14 28.8	1.535	2.465	9.6	19.3
2 11	7 5.99	+14 47.9	1.612	2.478	13.6	19.6
2 21	7 2.03	+15 7.1	1.709	2.491	16.9	19.8

7938 1990 SL_{2} 1 12.5 130°.32 2°.2/11.7 18

12 13	8 2.73	+25 20.8	1.782	2.632	13.1	17.8
12 23	7 54.96	+26 11.8	1.726	2.647	9.2	17.6
1 2	7 44.77	+27 3.3	1.696	2.662	5.0	17.4
1 12	7 33.24	+27 49.1	1.695	2.675	2.2	17.2
1 22	7 21.69	+28 24.6	1.724	2.688	5.3	17.5
2 1	7 11.50	+28 47.5	1.782	2.701	9.3	17.7
2 11	7 3.73	+28 58.5	1.865	2.712	12.9	18.0
2 21	6 58.96	+28 59.6	1.969	2.723	15.9	18.2

367988 2012 FC_{15} 1 12.5 319°.48 2°.6/11.8 18

12 13	7 58.35	+26 44.5	1.519	2.384	14.2	20.4
12 23	7 52.46	+27 9.5	1.442	2.370	10.1	20.1
1 2	7 43.71	+27 34.0	1.390	2.356	5.6	19.8
1 12	7 33.20	+27 52.6	1.363	2.343	2.6	19.6
1 22	7 22.38	+28 1.0	1.364	2.330	5.9	19.8
2 1	7 12.85	+27 57.3	1.391	2.318	10.6	20.0
2 11	7 5.95	+27 42.6	1.441	2.306	15.0	20.2
2 21	7 2.42	+27 19.6	1.511	2.295	18.6	20.5

63643 2001 QC_{99} 1 12.5 130°.46 3°.8/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 2.35	+32 31.0	2.181	3.024	11.4	19.7
12 23	7 54.41	+33 4.0	2.125	3.038	8.3	19.5
1 2	7 44.37	+33 30.5	2.096	3.052	5.2	19.4
1 12	7 33.23	+33 46.0	2.096	3.065	3.8	19.3
1 22	7 22.16	+33 47.6	2.126	3.077	5.7	19.4
2 1	7 12.34	+33 35.4	2.185	3.089	8.6	19.6
2 11	7 4.69	+33 11.6	2.270	3.101	11.5	19.8
2 21	6 59.70	+32 39.6	2.378	3.111	14.0	20.0

149574 2004 BU_{30} 1 12.5 188°.00 0°.6/12.3 18

12 13	7 58.89	+22 1.1	1.952	2.802	12.2	20.2
12 23	7 52.20	+22 28.9	1.880	2.801	8.6	20.0
1 2	7 43.33	+23 0.1	1.834	2.801	4.5	19.7
1 12	7 33.19	+23 30.9	1.817	2.800	0.6	19.4
1 22	7 22.91	+23 57.6	1.829	2.798	4.3	19.7
2 1	7 13.66	+24 17.9	1.871	2.797	8.4	20.0
2 11	7 6.45	+24 31.3	1.938	2.795	12.1	20.2
2 21	7 1.88	+24 38.0	2.027	2.792	15.1	20.4

302941 2003 SD_{416} 1 12.5 14°.39 5°.2/10.8 18

12 13	8 0.58	+31 21.4	1.393	2.259	15.1	20.0
12 23	7 54.19	+32 22.9	1.336	2.261	11.1	19.8
1 2	7 44.65	+33 19.5	1.302	2.263	7.0	19.6
1 12	7 33.25	+34 2.3	1.294	2.265	5.3	19.5
1 22	7 21.73	+34 25.3	1.313	2.268	7.9	19.6
2 1	7 11.88	+34 27.0	1.356	2.271	12.0	19.9
2 11	7 5.10	+34 10.3	1.422	2.274	15.9	20.1
2 21	7 2.03	+33 40.2	1.507	2.278	19.2	20.4

485021 2009 WX_{77} 1 12.5 85°.10 4°.7/11.1 17

12 13	8 5.82	+29 45.5	1.312	2.174	16.2	21.0
12 23	7 57.70	+30 52.6	1.272	2.196	11.6	20.8
1 2	7 46.35	+31 54.5	1.256	2.218	7.0	20.6
1 12	7 33.33	+32 41.8	1.266	2.240	4.8	20.6
1 22	7 20.53	+33 8.6	1.303	2.261	7.6	20.8
2 1	7 9.80	+33 14.3	1.366	2.281	11.9	21.1
2 11	7 2.42	+33 2.5	1.452	2.302	15.8	21.4
2 21	6 58.90	+32 38.5	1.557	2.322	19.0	21.7

427707 2004 FP_{96} 1 12.5 279°.17 8°.6/17.4 17

12 13	7 53.06	− 8 29.5	2.533	3.261	13.2	21.6
12 23	7 47.79	− 8 37.6	2.433	3.240	11.5	21.4
1 2	7 40.94	− 8 23.5	2.356	3.218	9.9	21.2
1 12	7 33.09	− 7 45.2	2.304	3.196	8.7	21.1
1 22	7 24.96	− 6 43.1	2.278	3.174	8.7	21.1
2 1	7 17.37	− 5 19.9	2.280	3.152	9.8	21.1
2 11	7 11.09	− 3 40.9	2.308	3.129	11.7	21.2
2 21	7 6.66	− 1 52.4	2.360	3.106	13.8	21.3

125616 2001 XU_{54} 1 12.5 92°.17 1°.7/13.0 18

12 13	7 57.83	+16 46.7	1.849	2.695	13.0	19.7
12 23	7 51.35	+16 46.1	1.787	2.704	9.3	19.5
1 2	7 42.82	+16 52.7	1.750	2.713	5.2	19.3
1 12	7 33.17	+17 4.6	1.741	2.723	1.7	19.1
1 22	7 23.51	+17 19.3	1.762	2.732	4.3	19.3
2 1	7 14.98	+17 34.8	1.811	2.741	8.4	19.6
2 11	7 8.49	+17 49.5	1.885	2.750	12.0	19.8
2 21	7 4.56	+18 2.3	1.982	2.759	15.0	20.0

105036 2000 KM_{39} 1 12.5 90°.95 5°.0/14.5 18

12 13	7 54.31	+ 5 51.7	2.297	3.105	12.1	20.1
12 23	7 48.56	+ 5 28.0	2.231	3.114	9.4	19.9
1 2	7 41.26	+ 5 17.6	2.190	3.123	6.8	19.8
1 12	7 33.11	+ 5 20.9	2.177	3.132	5.1	19.7
1 22	7 24.92	+ 5 36.9	2.192	3.141	5.7	19.7
2 1	7 17.55	+ 6 3.5	2.237	3.150	8.0	19.9
2 11	7 11.69	+ 6 37.4	2.307	3.159	10.6	20.1
2 21	7 7.82	+ 7 15.4	2.401	3.167	13.0	20.3

329354 2001 SR_{220} 1 12.5 65°.34 1°.9/13.3 18

12 13	7 54.77	+14 40.8	2.148	2.987	11.7	20.5
12 23	7 48.97	+14 54.0	2.090	3.003	8.4	20.4
1 2	7 41.49	+15 15.7	2.058	3.019	4.9	20.2
1 12	7 33.12	+15 43.6	2.055	3.034	2.0	20.0
1 22	7 24.76	+16 15.2	2.081	3.050	3.9	20.2
2 1	7 17.33	+16 47.9	2.137	3.066	7.3	20.4
2 11	7 11.58	+17 19.3	2.219	3.082	10.5	20.6
2 21	7 7.99	+17 47.9	2.324	3.098	13.2	20.9

452150 2015 RB_{35} 1 12.5 101°.43 0°.9/12.3 17

12 13	8 4.02	+23 49.6	1.493	2.349	14.9	21.4
12 23	7 56.03	+23 53.5	1.441	2.365	10.5	21.1
1 2	7 45.36	+23 57.9	1.412	2.380	5.5	20.9
1 12	7 33.30	+23 58.9	1.411	2.394	0.9	20.6
1 22	7 21.42	+23 53.8	1.439	2.409	5.2	20.9
2 1	7 11.21	+23 42.2	1.494	2.423	9.9	21.2
2 11	7 3.81	+23 25.4	1.574	2.436	14.1	21.5
2 21	6 59.72	+23 5.2	1.674	2.450	17.4	21.8

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
458545 2011 EU_{10}			1 12.5 228°.38		5°.5/10.5 17	
	h m	° ′			°	m
12 13	8 2.18	+38 19.0	2.294	3.129	11.2	21.8
12 23	7 54.50	+38 53.5	2.221	3.122	8.6	21.6
1 2	7 44.54	+39 18.0	2.175	3.115	6.3	21.4
1 12	7 33.27	+39 27.1	2.156	3.108	5.5	21.4
1 22	7 21.92	+39 18.1	2.167	3.100	6.9	21.5
2 1	7 11.73	+38 50.9	2.206	3.092	9.5	21.6
2 11	7 3.75	+38 8.7	2.271	3.084	12.1	21.8
2 21	6 58.55	+37 16.0	2.356	3.075	14.5	21.9
194696 2001 XG_{228}			1 12.5 109°.12		0°.4/12.4 18	
12 13	8 2.76	+21 47.9	1.609	2.461	14.2	20.7
12 23	7 55.01	+22 3.6	1.556	2.478	10.0	20.5
1 2	7 44.79	+22 22.4	1.528	2.495	5.2	20.2
1 12	7 33.28	+22 40.1	1.528	2.511	0.4	19.9
1 22	7 21.89	+22 53.6	1.557	2.527	4.8	20.3
2 1	7 11.99	+23 1.2	1.614	2.542	9.3	20.6
2 11	7 4.66	+23 2.9	1.696	2.557	13.3	20.9
2 21	7 0.41	+22 59.7	1.799	2.571	16.5	21.1
318108 2004 HC_{75}			1 12.5 257°.63		6°.8/ 9.9 18	
12 13	8 4.74	+40 2.4	2.057	2.890	12.3	21.1
12 23	7 56.76	+40 53.8	1.975	2.872	9.7	20.9
1 2	7 45.94	+41 34.0	1.919	2.853	7.5	20.7
1 12	7 33.35	+41 55.5	1.890	2.833	6.9	20.7
1 22	7 20.44	+41 53.8	1.889	2.814	8.4	20.7
2 1	7 8.79	+41 28.4	1.916	2.794	11.1	20.8
2 11	6 59.72	+40 43.3	1.967	2.773	14.0	21.0
2 21	6 53.98	+39 44.2	2.038	2.752	16.6	21.1
431483 2007 TO_{40}			1 12.5 14°.71		6°.3/ 9.5 18	
12 13	7 58.67	+38 18.3	2.075	2.919	11.8	20.5
12 23	7 52.26	+39 27.9	2.017	2.921	9.2	20.4
1 2	7 43.45	+40 28.1	1.984	2.923	7.0	20.2
1 12	7 33.23	+41 12.0	1.980	2.925	6.4	20.2
1 22	7 22.87	+41 35.4	2.002	2.928	7.9	20.3
2 1	7 13.71	+41 37.5	2.052	2.931	10.4	20.5
2 11	7 6.84	+41 20.9	2.125	2.934	13.0	20.6
2 21	7 2.88	+40 50.0	2.218	2.937	15.3	20.8
61029 2000 KG_{55}			1 12.5 89°.38		1°.5/13.0 18	
12 13	8 2.30	+16 2.1	1.570	2.415	14.9	19.0
12 23	7 54.57	+16 29.2	1.527	2.443	10.6	18.8
1 2	7 44.50	+17 5.7	1.508	2.471	5.8	18.6
1 12	7 33.27	+17 47.6	1.517	2.499	1.6	18.4
1 22	7 22.25	+18 30.3	1.555	2.526	4.7	18.7
2 1	7 12.74	+19 10.2	1.622	2.552	9.1	19.0
2 11	7 5.74	+19 45.0	1.714	2.578	13.0	19.3
2 21	7 1.72	+20 13.9	1.827	2.603	16.2	19.6
165771 2001 QS_{250}			1 12.5 65°.32		8°.3/ 9.1 18	
12 13	8 3.22	+46 1.1	2.182	3.001	12.3	19.2
12 23	7 55.48	+47 6.7	2.136	3.011	10.2	19.1
1 2	7 45.11	+47 56.1	2.115	3.021	8.6	19.0
1 12	7 33.31	+48 22.8	2.120	3.032	8.3	19.0
1 22	7 21.55	+48 23.5	2.152	3.042	9.4	19.1
2 1	7 11.30	+47 59.3	2.209	3.052	11.3	19.2
2 11	7 3.71	+47 14.6	2.289	3.063	13.3	19.4
2 21	6 59.31	+46 15.6	2.388	3.073	15.1	19.6
224348 2005 US_{104}			1 12.5 15°.03		1°.2/12.9 18	
12 13	7 56.35	+17 26.6	1.686	2.539	13.6	20.5
12 23	7 50.58	+17 40.6	1.619	2.541	9.7	20.3
1 2	7 42.54	+18 2.9	1.577	2.542	5.4	20.1
1 12	7 33.19	+18 30.5	1.562	2.544	1.3	19.8
1 22	7 23.73	+19 0.0	1.575	2.547	4.5	20.0
2 1	7 15.41	+19 28.4	1.616	2.549	8.9	20.3
2 11	7 9.25	+19 53.5	1.682	2.552	12.9	20.5
2 21	7 5.85	+20 14.1	1.769	2.556	16.2	20.8
406699 2008 FD_{18}			1 12.5 349°.98		11°.1/16.8 18	
12 13	7 52.15	− 2 51.6	1.311	2.120	19.4	20.4
12 23	7 48.06	− 3 27.5	1.243	2.112	16.4	20.2
1 2	7 41.40	− 3 31.5	1.193	2.105	13.4	20.0
1 12	7 33.14	− 2 59.5	1.165	2.099	11.3	19.8
1 22	7 24.60	− 1 52.5	1.160	2.094	11.4	19.8
2 1	7 17.20	− 0 16.4	1.178	2.091	13.6	19.9
2 11	7 12.21	+ 1 38.4	1.218	2.089	16.7	20.1
2 21	7 10.33	+ 3 40.6	1.277	2.088	20.0	20.3
366977 2005 WO_{184}			1 12.5 99°.28		2°.0/13.1 18	
12 13	7 59.79	+16 29.1	1.980	2.819	12.5	20.7
12 23	7 52.51	+16 10.1	1.925	2.837	9.0	20.5
1 2	7 43.35	+15 57.3	1.895	2.856	5.1	20.3
1 12	7 33.24	+15 49.6	1.894	2.874	2.1	20.1
1 22	7 23.25	+15 45.7	1.923	2.891	4.3	20.3
2 1	7 14.42	+15 44.6	1.982	2.909	8.0	20.6
2 11	7 7.58	+15 45.0	2.067	2.926	11.3	20.8
2 21	7 3.19	+15 46.2	2.174	2.942	14.1	21.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
345151 2005 SU_{123}			1 12.5 100°.48		0°.8/12.7 17	
	h m	° ′			°	m
12 13	8 2.42	+18 27.2	1.468	2.320	15.3	21.5
12 23	7 54.91	+18 47.6	1.417	2.339	10.9	21.3
1 2	7 44.80	+19 15.8	1.391	2.357	5.8	21.0
1 12	7 33.31	+19 47.2	1.392	2.375	0.9	20.7
1 22	7 21.93	+20 17.7	1.421	2.392	4.9	21.1
2 1	7 12.12	+20 44.2	1.477	2.408	9.8	21.4
2 11	7 4.99	+21 5.4	1.558	2.425	13.9	21.7
2 21	7 1.09	+21 20.8	1.660	2.440	17.3	22.0
190192 2005 WJ_{147}			1 12.5 117°.12		2°.8/13.6 18	
12 13	8 1.64	+12 27.2	1.718	2.550	14.4	21.4
12 23	7 54.05	+12 47.1	1.664	2.572	10.5	21.2
1 2	7 44.26	+13 19.6	1.635	2.592	6.3	21.0
1 12	7 33.29	+14 1.7	1.634	2.612	2.9	20.9
1 22	7 22.40	+14 49.2	1.663	2.631	4.9	21.0
2 1	7 12.80	+15 38.2	1.721	2.649	8.9	21.3
2 11	7 5.47	+16 25.2	1.805	2.667	12.6	21.6
2 21	7 0.93	+17 8.0	1.911	2.683	15.7	21.8
367752 2010 VP_{167}			1 12.5 82°.55		1°.5/13.0 18	
12 13	7 58.33	+17 1.1	1.736	2.584	13.6	21.2
12 23	7 51.80	+17 5.3	1.677	2.595	9.7	21.0
1 2	7 43.11	+17 17.2	1.643	2.606	5.4	20.8
1 12	7 33.24	+17 34.3	1.636	2.618	1.6	20.6
1 22	7 23.38	+17 53.8	1.659	2.629	4.5	20.8
2 1	7 14.74	+18 13.3	1.709	2.641	8.7	21.1
2 11	7 8.27	+18 31.1	1.785	2.652	12.5	21.3
2 21	7 4.51	+18 46.2	1.883	2.663	15.6	21.6
448211 2008 UH_{247}			1 12.5 31°.92		3°.1/11.6 16	
12 13	7 59.30	+25 42.8	1.065	1.946	17.6	20.8
12 23	7 53.50	+26 33.2	1.025	1.960	12.4	20.6
1 2	7 44.30	+27 24.4	1.006	1.975	6.8	20.3
1 12	7 33.29	+28 7.8	1.010	1.991	3.1	20.1
1 22	7 22.45	+28 36.8	1.040	2.008	7.1	20.4
2 1	7 13.68	+28 49.2	1.093	2.025	12.3	20.8
2 11	7 8.34	+28 46.6	1.167	2.044	16.8	21.1
2 21	7 6.93	+28 32.6	1.259	2.064	20.5	21.4
163488 2002 ST_{10}			1 12.5 101°.11		3°.6/14.2 18	
12 13	7 54.87	+ 9 12.2	2.360	3.178	11.5	20.8
12 23	7 48.91	+ 9 9.0	2.298	3.193	8.6	20.6
1 2	7 41.44	+ 9 16.9	2.262	3.208	5.7	20.5
1 12	7 33.16	+ 9 35.3	2.255	3.223	3.7	20.4
1 22	7 24.89	+10 2.2	2.278	3.237	4.6	20.4
2 1	7 17.43	+10 35.3	2.330	3.251	7.2	20.6
2 11	7 11.50	+11 11.7	2.409	3.265	10.0	20.8
2 21	7 7.52	+11 48.8	2.512	3.279	12.5	21.0
62629 2000 SO_{354}			1 12.5 150°.80		6°.8/ 9.0 18	
12 13	8 1.22	+44 27.1	2.619	3.437	10.5	19.6
12 23	7 53.78	+45 26.7	2.563	3.440	8.6	19.5
1 2	7 44.16	+46 13.7	2.533	3.444	7.2	19.4
1 12	7 33.30	+46 42.7	2.530	3.447	6.9	19.4
1 22	7 22.37	+46 50.7	2.556	3.450	7.9	19.5
2 1	7 12.56	+46 37.9	2.608	3.453	9.7	19.6
2 11	7 4.87	+46 7.2	2.684	3.456	11.6	19.7
2 21	6 59.86	+45 23.2	2.780	3.458	13.3	19.9
19774 2000 OS_{51}			1 12.5 279°.21		1°.3/12.8 18	
12 13	7 59.57	+19 1.1	1.932	2.777	12.5	17.0
12 23	7 52.85	+18 40.0	1.836	2.753	9.1	16.7
1 2	7 43.81	+18 22.3	1.765	2.729	5.0	16.4
1 12	7 33.30	+18 6.7	1.723	2.705	1.4	16.1
1 22	7 22.43	+17 52.2	1.710	2.680	4.5	16.3
2 1	7 12.45	+17 38.0	1.727	2.655	8.8	16.5
2 11	7 4.45	+17 24.2	1.769	2.630	12.8	16.7
2 21	6 59.16	+17 10.7	1.834	2.605	16.3	16.9
47298 1999 WX_{2}			1 12.5 97°.23		0°.2/12.6 18	
12 13	8 3.19	+19 34.9	1.414	2.269	15.7	19.8
12 23	7 55.52	+20 1.2	1.366	2.289	11.0	19.6
1 2	7 45.15	+20 34.1	1.342	2.309	5.8	19.3
1 12	7 33.35	+21 8.7	1.344	2.328	0.4	19.0
1 22	7 21.69	+21 40.2	1.375	2.346	5.1	19.4
2 1	7 11.71	+22 5.8	1.434	2.365	10.0	19.7
2 11	7 4.54	+22 24.4	1.516	2.382	14.3	20.0
2 21	7 0.70	+22 36.4	1.619	2.400	17.7	20.3
461278 2015 XG_{65}			1 12.5 16°.34		1°.3/12.9 17	
12 13	7 57.06	+16 4.0	1.356	2.217	15.9	21.1
12 23	7 51.52	+16 43.7	1.294	2.219	11.4	20.8
1 2	7 43.22	+17 36.9	1.255	2.221	6.3	20.5
1 12	7 33.27	+18 38.7	1.241	2.224	1.4	20.2
1 22	7 23.13	+19 42.6	1.255	2.227	5.2	20.5
2 1	7 14.35	+20 42.9	1.295	2.231	10.3	20.8
2 11	7 8.21	+21 35.6	1.358	2.235	14.9	21.0
2 21	7 5.37	+22 18.8	1.441	2.240	18.7	21.3

287619 2003 HD_{13} 1 12.5 273°.79 0°.8/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 0.24	+21 34.8	1.583	2.440	14.2	21.1
12 23	7 53.85	+22 9.1	1.494	2.418	10.1	20.8
1 2	7 44.57	+22 49.8	1.429	2.396	5.4	20.5
1 12	7 33.35	+23 32.1	1.391	2.374	0.8	20.1
1 22	7 21.55	+24 10.4	1.381	2.351	5.3	20.4
2 1	7 10.78	+24 40.9	1.399	2.328	10.4	20.6
2 11	7 2.47	+25 2.1	1.441	2.304	15.1	20.8
2 21	6 57.50	+25 14.5	1.502	2.280	19.0	21.0

327053 2004 TP_{72} 1 12.5 189°.75 1°.2/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.69	+24 2.3	2.205	3.053	11.0	21.7
12 23	7 51.21	+24 31.4	2.132	3.053	7.8	21.5
1 2	7 42.79	+25 1.8	2.086	3.052	4.1	21.3
1 12	7 33.25	+25 29.9	2.069	3.051	1.2	21.1
1 22	7 23.58	+25 52.6	2.082	3.049	4.1	21.3
2 1	7 14.83	+26 8.1	2.125	3.047	7.8	21.5
2 11	7 7.90	+26 16.0	2.194	3.045	11.1	21.7
2 21	7 3.33	+26 17.1	2.286	3.043	13.9	21.9

427558 2002 UA_{60} 1 12.5 203°.41 4°.3/10.1 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.21	+33 53.5	2.534	3.377	10.0	21.6
12 23	7 51.60	+34 59.9	2.464	3.374	7.4	21.4
1 2	7 43.03	+36 1.6	2.421	3.370	5.1	21.3
1 12	7 33.27	+36 53.2	2.407	3.367	4.4	21.2
1 22	7 23.28	+37 30.7	2.424	3.363	5.9	21.3
2 1	7 14.13	+37 52.4	2.470	3.358	8.5	21.5
2 11	7 6.73	+37 59.2	2.541	3.354	11.0	21.6
2 21	7 1.68	+37 53.5	2.634	3.349	13.2	21.8

206714 2004 BK_{47} 1 12.5 36°.27 0°.1/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.69	+22 7.3	1.913	2.766	12.3	19.9
12 23	7 51.24	+21 54.9	1.851	2.773	8.7	19.6
1 2	7 42.78	+21 44.1	1.814	2.781	4.6	19.4
1 12	7 33.26	+21 33.0	1.805	2.789	0.2	19.1
1 22	7 23.77	+21 20.2	1.826	2.797	4.1	19.4
2 1	7 15.44	+21 5.2	1.875	2.805	8.1	19.7
2 11	7 9.14	+20 48.3	1.951	2.814	11.7	19.9
2 21	7 5.39	+20 30.1	2.048	2.823	14.7	20.1

111759 2002 CK_{126} 1 12.5 167°.54 1°.8/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.06	+27 7.2	2.505	3.348	10.1	20.6
12 23	7 51.95	+27 26.0	2.435	3.353	7.1	20.4
1 2	7 43.10	+27 43.0	2.393	3.356	3.9	20.2
1 12	7 33.29	+27 55.1	2.381	3.360	1.8	20.0
1 22	7 23.44	+27 59.9	2.399	3.363	4.1	20.2
2 1	7 14.50	+27 56.8	2.449	3.365	7.2	20.4
2 11	7 7.27	+27 46.4	2.525	3.367	10.1	20.6
2 21	7 2.23	+27 30.3	2.625	3.368	12.6	20.8

100609 1997 ST_{6} 1 12.5 35°.44 4°.4/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.55	+33 18.4	1.948	2.800	12.1	19.7
12 23	7 52.75	+33 48.8	1.888	2.804	8.9	19.5
1 2	7 43.66	+34 12.1	1.853	2.809	5.8	19.3
1 12	7 33.32	+34 23.3	1.846	2.814	4.4	19.3
1 22	7 22.99	+34 19.5	1.868	2.819	6.3	19.4
2 1	7 13.95	+34 0.7	1.917	2.825	9.4	19.6
2 11	7 7.20	+33 29.3	1.991	2.830	12.6	19.8
2 21	7 3.29	+32 49.2	2.086	2.836	15.2	20.0

19288 Egami 1 12.5 64°.93 9°.8/ 9.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.50	+44 47.0	1.601	2.434	15.3	16.2
12 23	7 59.07	+45 58.3	1.560	2.447	12.5	16.1
1 2	7 47.20	+46 49.7	1.542	2.460	10.4	16.0
1 12	7 33.49	+47 11.9	1.549	2.473	9.8	16.0
1 22	7 20.00	+47 1.0	1.581	2.487	11.1	16.1
2 1	7 8.69	+46 19.5	1.638	2.500	13.5	16.2
2 11	7 0.93	+45 14.8	1.716	2.514	16.1	16.4
2 21	6 57.22	+43 55.7	1.812	2.527	18.4	16.7

160351 2003 UZ_{85} 1 12.5 77°.54 7°.3/ 9.8 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.80	+42 20.9	2.091	2.922	12.3	19.6
12 23	7 55.14	+43 17.4	2.040	2.930	9.8	19.4
1 2	7 44.95	+44 0.0	2.014	2.939	7.9	19.3
1 12	7 33.38	+44 22.3	2.016	2.948	7.4	19.3
1 22	7 21.86	+44 21.0	2.044	2.957	8.6	19.4
2 1	7 11.80	+43 56.9	2.099	2.966	10.8	19.5
2 11	7 4.31	+43 14.1	2.178	2.974	13.1	19.7
2 21	6 59.93	+42 18.5	2.277	2.983	15.3	19.9

336539 2009 BW_{9} 1 12.5 116°.99 0°.8/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.72	+16 42.3	2.427	3.266	10.5	21.1
12 23	7 48.92	+17 19.0	2.359	3.274	7.5	20.9
1 2	7 41.52	+18 2.5	2.318	3.282	4.1	20.7
1 12	7 33.23	+18 50.0	2.307	3.290	0.9	20.4
1 22	7 24.84	+19 38.2	2.327	3.297	3.4	20.7
2 1	7 17.23	+20 24.2	2.377	3.305	6.8	20.9
2 11	7 11.12	+21 5.9	2.454	3.312	9.8	21.1
2 21	7 7.00	+21 42.1	2.556	3.319	12.4	21.3

67638 2000 SH_{214} 1 12.5 310°.69 0°.2/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 58.46	+20 33.1	1.342	2.208	15.6	18.6
12 23	7 52.80	+20 41.4	1.263	2.192	11.2	18.3
1 2	7 44.08	+20 56.1	1.207	2.176	6.0	18.0
1 12	7 33.37	+21 13.5	1.176	2.160	0.4	17.5
1 22	7 22.23	+21 29.6	1.172	2.144	5.5	17.8
2 1	7 12.39	+21 41.5	1.193	2.129	11.1	18.1
2 11	7 5.32	+21 48.1	1.237	2.115	16.0	18.4
2 21	7 1.86	+21 49.5	1.300	2.101	20.2	18.6

188962 2007 FP_{8} 1 12.5 239°.44 3°.0/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.39	+13 13.5	1.941	2.779	12.8	20.4
12 23	7 50.38	+13 3.5	1.869	2.778	9.4	20.2
1 2	7 42.40	+13 3.4	1.821	2.778	5.8	20.0
1 12	7 33.29	+13 12.2	1.802	2.778	3.0	19.8
1 22	7 24.07	+13 28.0	1.811	2.778	4.7	19.9
2 1	7 15.80	+13 48.7	1.849	2.777	8.3	20.1
2 11	7 9.39	+14 11.8	1.913	2.777	11.8	20.3
2 21	7 5.41	+14 35.2	1.998	2.777	14.9	20.5

282981 2007 TL_{66} 1 12.5 123°.66 0°.7/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.92	+16 32.8	2.388	3.226	10.7	20.9
12 23	7 49.12	+17 19.2	2.318	3.232	7.6	20.7
1 2	7 41.67	+18 13.3	2.275	3.238	4.1	20.5
1 12	7 33.26	+19 11.5	2.261	3.244	0.8	20.3
1 22	7 24.73	+20 10.2	2.279	3.250	3.4	20.5
2 1	7 16.96	+21 6.0	2.327	3.255	6.9	20.7
2 11	7 10.72	+21 56.4	2.403	3.260	10.0	20.9
2 21	7 6.51	+22 40.1	2.502	3.265	12.6	21.1

7048 Chaussidon 1 12.5 36°.26 0°.8/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.02	+23 1.7	2.001	2.854	11.8	18.0
12 23	7 50.86	+23 20.8	1.932	2.855	8.3	17.8
1 2	7 42.66	+23 41.9	1.889	2.856	4.4	17.5
1 12	7 33.32	+24 1.6	1.875	2.858	0.8	17.3
1 22	7 23.88	+24 17.2	1.890	2.859	4.2	17.5
2 1	7 15.46	+24 26.9	1.933	2.860	8.1	17.8
2 11	7 8.99	+24 30.3	2.003	2.862	11.6	18.0
2 21	7 5.02	+24 28.2	2.094	2.863	14.6	18.2

415559 2014 QZ_{223} 1 12.5 89°.07 0°.5/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.27	+22 25.1	1.681	2.536	13.6	21.5
12 23	7 53.30	+22 35.4	1.623	2.546	9.6	21.3
1 2	7 43.98	+22 48.2	1.589	2.556	5.0	21.1
1 12	7 33.38	+22 59.8	1.583	2.567	0.5	20.7
1 22	7 22.82	+23 7.5	1.607	2.577	4.6	21.1
2 1	7 13.61	+23 9.7	1.658	2.587	9.1	21.4
2 11	7 6.77	+23 6.6	1.734	2.597	12.9	21.6
2 21	7 2.85	+22 59.0	1.831	2.607	16.1	21.9

13852 Ford 1 12.5 134°.59 0°.1/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.51	+20 22.1	1.667	2.514	14.1	18.3
12 23	7 55.57	+20 39.6	1.608	2.528	9.9	18.1
1 2	7 45.18	+21 1.8	1.576	2.542	5.2	17.8
1 12	7 33.45	+21 24.6	1.571	2.554	0.3	17.5
1 22	7 21.76	+21 44.4	1.596	2.566	4.7	17.9
2 1	7 11.48	+21 59.4	1.650	2.578	9.2	18.2
2 11	7 3.70	+22 8.8	1.729	2.588	13.2	18.4
2 21	6 58.96	+22 13.3	1.829	2.598	16.4	18.7

288889 2004 RR_{266} 1 12.5 123°.54 1°.2/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.82	+24 39.8	1.997	2.848	11.9	21.0
12 23	7 52.10	+24 54.7	1.931	2.853	8.4	20.8
1 2	7 43.30	+25 9.9	1.891	2.857	4.5	20.6
1 12	7 33.36	+25 21.8	1.880	2.862	1.2	20.3
1 22	7 23.38	+25 27.9	1.898	2.866	4.4	20.6
2 1	7 14.50	+25 27.0	1.946	2.870	8.2	20.8
2 11	7 7.66	+25 19.7	2.019	2.875	11.7	21.0
2 21	7 3.40	+25 7.0	2.114	2.879	14.6	21.2

423117 2004 BZ_{108} 1 12.5 283°.79 8°.8/ 9.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.41	+50 9.0	2.389	3.182	12.1	20.9
12 23	8 0.04	+50 47.7	2.307	3.159	10.4	20.8
1 2	7 47.68	+51 8.3	2.248	3.136	9.2	20.7
1 12	7 33.58	+51 3.4	2.217	3.112	8.9	20.6
1 22	7 19.39	+50 29.5	2.212	3.088	9.8	20.6
2 1	7 6.78	+49 27.9	2.233	3.064	11.6	20.7
2 11	6 57.06	+48 4.0	2.279	3.040	13.7	20.8
2 21	6 50.89	+46 25.4	2.345	3.015	15.7	20.9

297387 2000 QC_{52} 1 12.5 91°.79 1°.2/12.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.84	+17 22.4	1.585	2.433	14.7	21.7
12 23	7 54.33	+17 40.2	1.538	2.457	10.4	21.4
1 2	7 44.48	+18 5.9	1.515	2.480	5.6	21.2
1 12	7 33.43	+18 36.0	1.520	2.503	1.3	21.0
1 22	7 22.54	+19 6.4	1.554	2.525	4.7	21.3
2 1	7 13.12	+19 34.4	1.617	2.547	9.1	21.6
2 11	7 6.18	+19 58.1	1.704	2.569	13.0	21.9
2 21	7 2.21	+20 17.0	1.812	2.590	16.2	22.1

260854 2005 QP_{82} 1 12.5 40°.92 0°.6/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 2.81	+22 39.3	1.432	2.291	15.3	19.0
12 23	7 55.13	+21 51.7	1.383	2.308	10.8	18.8
1 2	7 44.90	+21 4.5	1.358	2.325	5.7	18.6
1 12	7 33.45	+20 17.1	1.360	2.343	0.7	18.2
1 22	7 22.32	+19 29.9	1.391	2.362	5.0	18.6
2 1	7 12.95	+18 44.5	1.449	2.381	9.8	18.9
2 11	7 6.35	+18 2.5	1.531	2.401	13.9	19.2
2 21	7 2.96	+17 24.5	1.634	2.421	17.3	19.5

427625 2003 UA_{85} 1 12.5 37°.63 1°.0/12.2 18

12 13	7 57.00	+22 43.2	1.615	2.477	13.7	21.2
12 23	7 51.04	+23 12.7	1.568	2.495	9.6	21.0
1 2	7 42.79	+23 45.1	1.545	2.513	5.0	20.8
1 12	7 33.35	+24 15.8	1.549	2.531	1.0	20.5
1 22	7 24.01	+24 40.9	1.581	2.551	4.7	20.8
2 1	7 16.02	+24 58.4	1.640	2.571	9.1	21.1
2 11	7 10.37	+25 7.9	1.724	2.591	12.8	21.4
2 21	7 7.55	+25 10.2	1.829	2.611	15.9	21.7

113638 2002 TC_{76} 1 12.5 149°.16 2°.0/11.9 18

12 13	8 1.32	+26 34.2	2.023	2.871	11.9	20.2
12 23	7 53.85	+26 58.0	1.959	2.879	8.4	20.0
1 2	7 44.23	+27 20.3	1.922	2.887	4.6	19.8
1 12	7 33.43	+27 37.1	1.914	2.894	2.0	19.7
1 22	7 22.62	+27 45.3	1.936	2.900	4.7	19.9
2 1	7 12.98	+27 44.1	1.987	2.906	8.4	20.1
2 11	7 5.46	+27 34.4	2.064	2.912	11.8	20.3
2 21	7 0.63	+27 18.2	2.163	2.916	14.6	20.5

281618 2008 UJ_{239} 1 12.5 294°.66 0°.9/12.8 18

12 13	7 57.19	+19 36.9	2.098	2.944	11.6	20.3
12 23	7 50.89	+19 22.8	2.021	2.939	8.3	20.0
1 2	7 42.67	+19 12.1	1.970	2.935	4.5	19.8
1 12	7 33.36	+19 3.3	1.948	2.930	0.9	19.5
1 22	7 23.95	+18 55.1	1.956	2.926	3.9	19.7
2 1	7 15.48	+18 46.8	1.993	2.922	7.8	20.0
2 11	7 8.84	+18 37.9	2.056	2.918	11.3	20.2
2 21	7 4.55	+18 28.5	2.142	2.914	14.2	20.4

376167 2011 BC_{134} 1 12.5 235°.46 1°.0/12.1 17

12 13	7 57.62	+22 55.9	2.182	3.030	11.2	22.0
12 23	7 51.30	+23 29.5	2.100	3.021	7.9	21.8
1 2	7 42.96	+24 5.9	2.045	3.011	4.2	21.5
1 12	7 33.39	+24 41.4	2.019	3.001	1.0	21.3
1 22	7 23.59	+25 12.4	2.023	2.991	4.1	21.5
2 1	7 14.63	+25 36.5	2.056	2.980	7.9	21.7
2 11	7 7.45	+25 53.0	2.117	2.969	11.4	21.9
2 21	7 2.68	+26 2.3	2.199	2.958	14.3	22.1

117450 2005 AD_{47} 1 12.5 130°.76 1°.1/13.1 18

12 13	7 55.33	+15 56.6	2.323	3.161	11.0	20.0
12 23	7 49.43	+16 29.8	2.254	3.167	7.8	19.8
1 2	7 41.86	+17 10.7	2.211	3.174	4.4	19.6
1 12	7 33.34	+17 56.5	2.198	3.180	1.2	19.4
1 22	7 24.72	+18 43.9	2.215	3.186	3.5	19.6
2 1	7 16.89	+19 29.8	2.263	3.192	7.0	19.8
2 11	7 10.64	+20 11.9	2.338	3.197	10.2	20.0
2 21	7 6.47	+20 48.9	2.436	3.203	12.8	20.2

172990 2006 KV_{81} 1 12.5 176°.32 3°.3/10.9 18

12 13	8 1.66	+28 6.6	2.051	2.898	11.8	21.0
12 23	7 54.32	+29 21.8	1.983	2.901	8.4	20.8
1 2	7 44.62	+30 36.5	1.942	2.903	5.0	20.6
1 12	7 33.49	+31 44.0	1.931	2.904	3.4	20.5
1 22	7 22.10	+32 38.5	1.950	2.905	5.7	20.6
2 1	7 11.74	+33 17.3	1.998	2.905	9.2	20.8
2 11	7 3.51	+33 40.4	2.073	2.904	12.4	21.0
2 21	6 58.07	+33 50.4	2.169	2.903	15.2	21.2

66331 1999 JY_{59} 1 12.5 182°.69 0°.7/12.8 18

12 13	8 0.05	+18 19.0	2.042	2.882	12.2	19.9
12 23	7 52.98	+18 40.2	1.968	2.883	8.7	19.7
1 2	7 43.82	+19 7.4	1.919	2.884	4.7	19.4
1 12	7 33.45	+19 37.8	1.900	2.883	0.8	19.1
1 22	7 22.92	+20 8.0	1.912	2.882	4.0	19.4
2 1	7 13.36	+20 35.4	1.953	2.880	8.1	19.6
2 11	7 5.74	+20 58.7	2.021	2.878	11.7	19.8
2 21	7 0.63	+21 17.2	2.112	2.874	14.7	20.0

378954 2008 UK_{187} 1 12.5 41°.56 0°.4/12.7 18

12 13	7 55.62	+19 22.9	1.962	2.813	12.1	20.8
12 23	7 49.86	+19 43.9	1.898	2.820	8.5	20.6
1 2	7 42.15	+20 10.5	1.860	2.827	4.5	20.4
1 12	7 33.36	+20 39.4	1.851	2.834	0.5	20.1
1 22	7 24.51	+21 7.6	1.870	2.841	4.0	20.4
2 1	7 16.67	+21 32.6	1.919	2.849	7.9	20.6
2 11	7 10.71	+21 53.0	1.993	2.857	11.4	20.9
2 21	7 7.18	+22 8.2	2.089	2.865	14.4	21.1

88673 2001 RP_{87} 1 12.5 92°.60 0°.7/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 59.28	+22 41.6	1.790	2.644	12.9	19.2
12 23	7 52.57	+22 59.8	1.730	2.653	9.1	19.0
1 2	7 43.62	+23 20.5	1.695	2.662	4.8	18.8
1 12	7 33.44	+23 39.7	1.688	2.671	0.7	18.5
1 22	7 23.25	+23 54.4	1.710	2.679	4.5	18.8
2 1	7 14.29	+24 2.9	1.760	2.688	8.7	19.1
2 11	7 7.55	+24 5.0	1.836	2.697	12.4	19.3
2 21	7 3.58	+24 1.7	1.933	2.705	15.5	19.5

493718 2015 TQ_{137} 1 12.5 32°.33 3°.1/13.7 18

12 13	7 57.24	+12 11.5	1.319	2.172	16.7	20.9
12 23	7 51.67	+12 43.5	1.259	2.177	12.2	20.6
1 2	7 43.36	+13 33.6	1.222	2.183	7.3	20.4
1 12	7 33.43	+14 37.9	1.210	2.189	3.2	20.1
1 22	7 23.35	+15 50.2	1.225	2.196	5.6	20.3
2 1	7 14.66	+17 3.7	1.265	2.202	10.5	20.6
2 11	7 8.60	+18 12.6	1.330	2.210	15.0	20.9
2 21	7 5.84	+19 13.4	1.414	2.217	18.7	21.1

98277 2000 SM_{211} 1 12.5 352°.93 1°.4/13.1 18

12 13	7 57.51	+15 53.4	1.391	2.249	15.7	18.6
12 23	7 51.89	+16 31.3	1.324	2.247	11.3	18.4
1 2	7 43.51	+17 22.8	1.280	2.246	6.3	18.1
1 12	7 33.45	+18 23.3	1.262	2.245	1.5	17.8
1 22	7 23.13	+19 26.6	1.272	2.244	5.2	18.0
2 1	7 14.09	+20 27.0	1.308	2.244	10.3	18.3
2 11	7 7.64	+21 20.4	1.367	2.244	14.9	18.6
2 21	7 4.49	+22 4.7	1.447	2.244	18.7	18.8

388026 2005 SM_{66} 1 12.5 114°.62 4°.2/11.3 17

12 13	8 6.70	+30 42.9	1.631	2.482	14.2	21.2
12 23	7 57.98	+31 32.7	1.585	2.502	10.2	21.0
1 2	7 46.50	+32 16.4	1.563	2.523	6.2	20.9
1 12	7 33.59	+32 47.0	1.570	2.542	4.2	20.8
1 22	7 20.85	+33 0.3	1.605	2.561	6.7	21.0
2 1	7 9.84	+32 56.0	1.669	2.579	10.4	21.2
2 11	7 1.72	+32 37.4	1.756	2.596	13.9	21.5
2 21	6 57.00	+32 9.0	1.864	2.612	16.9	21.7

336423 2008 UF_{218} 1 12.5 160°.40 0°.8/12.2 18

12 13	7 57.12	+23 29.0	2.213	3.062	11.0	21.3
12 23	7 50.80	+23 43.5	2.142	3.063	7.7	21.1
1 2	7 42.62	+23 59.2	2.098	3.064	4.1	20.9
1 12	7 33.40	+24 13.1	2.083	3.066	0.8	20.7
1 22	7 24.10	+24 22.9	2.098	3.067	3.9	20.9
2 1	7 15.74	+24 27.3	2.142	3.068	7.6	21.1
2 11	7 9.16	+24 26.1	2.213	3.068	10.8	21.3
2 21	7 4.88	+24 20.1	2.306	3.069	13.6	21.5

327936 2007 DX_{110} 1 12.5 201°.47 1°.7/11.9 16

12 13	7 59.04	+26 29.3	2.403	3.248	10.4	22.1
12 23	7 52.11	+26 51.6	2.326	3.244	7.4	21.9
1 2	7 43.32	+27 12.9	2.275	3.240	4.1	21.7
1 12	7 33.44	+27 29.7	2.255	3.235	1.7	21.5
1 22	7 23.44	+27 39.5	2.265	3.229	4.2	21.7
2 1	7 14.31	+27 41.1	2.305	3.223	7.5	21.9
2 11	7 6.92	+27 35.1	2.373	3.217	10.6	22.1
2 21	7 1.81	+27 22.7	2.463	3.210	13.2	22.3

6888 1971 BD_{3} 1 12.5 38°.75 1°.9/13.0 18

12 13	7 58.46	+17 11.0	1.395	2.254	15.6	16.7
12 23	7 52.30	+17 2.2	1.342	2.266	11.2	16.5
1 2	7 43.56	+17 2.2	1.312	2.278	6.2	16.3
1 12	7 33.45	+17 8.8	1.308	2.290	2.0	16.0
1 22	7 23.40	+17 19.3	1.331	2.303	5.1	16.3
2 1	7 14.85	+17 31.4	1.381	2.316	9.9	16.6
2 11	7 8.90	+17 43.0	1.454	2.330	14.2	16.9
2 21	7 6.07	+17 53.1	1.547	2.344	17.7	17.1

489042 2005 XV_{87} 1 12.5 5°.81 1°.3/12.1 18

12 13	7 58.22	+21 56.6	1.172	2.047	16.8	21.0
12 23	7 52.80	+22 40.9	1.114	2.046	11.9	20.7
1 2	7 44.12	+23 32.5	1.077	2.047	6.3	20.4
1 12	7 33.50	+24 24.3	1.065	2.048	1.3	20.1
1 22	7 22.67	+25 9.2	1.079	2.050	6.1	20.4
2 1	7 13.49	+25 42.8	1.117	2.053	11.7	20.7
2 11	7 7.44	+26 3.9	1.177	2.056	16.6	21.0
2 21	7 5.21	+26 13.5	1.255	2.060	20.6	21.3

8673 1991 RN_{5} 1 12.5 108°.15 2°.4/13.5 18

12 13	7 56.67	+13 47.0	1.940	2.778	12.8	17.8
12 23	7 50.59	+13 59.1	1.873	2.785	9.3	17.6
1 2	7 42.55	+14 21.5	1.832	2.791	5.5	17.4
1 12	7 33.41	+14 52.1	1.819	2.798	2.4	17.2
1 22	7 24.20	+15 27.7	1.835	2.804	4.4	17.3
2 1	7 15.96	+16 5.5	1.880	2.810	8.1	17.6
2 11	7 9.60	+16 42.4	1.952	2.817	11.6	17.8
2 21	7 5.67	+17 16.6	2.045	2.822	14.6	18.0

258545 2002 CG_{24} 1 12.5 4°.21 4°.7/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 56.19	+12 0.9	1.480	2.329	15.5	19.6
12 23	7 50.67	+11 19.0	1.415	2.328	11.6	19.4
1 2	7 42.74	+10 49.4	1.374	2.328	7.5	19.2
1 12	7 33.42	+10 33.2	1.357	2.330	4.7	19.0
1 22	7 24.02	+10 29.5	1.368	2.332	6.3	19.1
2 1	7 15.85	+10 36.8	1.404	2.334	10.3	19.3
2 11	7 10.03	+10 51.8	1.464	2.338	14.2	19.6
2 21	7 7.14	+11 11.2	1.544	2.342	17.6	19.8

502136 2015 BT_{24} 1 12.5 308°.29 3°.9/14.5 18

12 13	7 53.53	+ 8 4.5	2.245	3.064	12.0	21.3
12 23	7 48.24	+ 8 15.2	2.167	3.062	9.1	21.1
1 2	7 41.29	+ 8 39.5	2.114	3.059	6.1	20.9
1 12	7 33.35	+ 9 16.3	2.090	3.057	4.0	20.8
1 22	7 25.27	+10 3.3	2.094	3.055	4.9	20.8
2 1	7 17.91	+10 57.1	2.128	3.052	7.7	21.0
2 11	7 12.08	+11 54.0	2.188	3.050	10.7	21.2
2 21	7 8.28	+12 50.6	2.272	3.048	13.4	21.4

168239 2006 KK_{82} 1 12.5 143°.44 1°.3/11.8 18

12 13	7 56.36	+23 14.4	2.573	3.417	9.8	20.7
12 23	7 50.13	+24 11.6	2.505	3.424	6.9	20.5
1 2	7 42.24	+25 11.2	2.466	3.432	3.6	20.3
1 12	7 33.40	+26 9.0	2.458	3.439	1.3	20.1
1 22	7 24.43	+27 1.3	2.481	3.446	3.8	20.3
2 1	7 16.21	+27 45.5	2.534	3.452	6.9	20.5
2 11	7 9.51	+28 20.5	2.615	3.458	9.8	20.7
2 21	7 4.83	+28 46.6	2.719	3.464	12.2	20.9

126021 2001 YG_{61} 1 12.5 62°.87 1°.9/12.1 17

12 13	8 3.79	+24 36.2	1.265	2.131	16.4	19.2
12 23	7 56.15	+25 4.8	1.228	2.156	11.5	19.0
1 2	7 45.57	+25 34.0	1.214	2.181	6.1	18.8
1 12	7 33.57	+25 57.4	1.225	2.207	1.9	18.6
1 22	7 21.91	+26 11.0	1.264	2.233	5.9	18.9
2 1	7 12.25	+26 13.5	1.329	2.259	10.8	19.3
2 11	7 5.73	+26 6.5	1.416	2.284	15.0	19.6
2 21	7 2.79	+25 52.6	1.524	2.310	18.4	19.9

94817 2001 XO_{176} 1 12.5 123°.41 0°.1/12.5 18

12 13	8 2.08	+20 18.1	1.807	2.652	13.2	20.2
12 23	7 54.46	+20 50.2	1.751	2.670	9.3	20.0
1 2	7 44.60	+21 27.0	1.721	2.687	4.9	19.7
1 12	7 33.53	+22 4.2	1.721	2.704	0.3	19.4
1 22	7 22.50	+22 37.8	1.750	2.720	4.4	19.8
2 1	7 12.75	+23 5.1	1.808	2.735	8.6	20.1
2 11	7 5.26	+23 25.4	1.893	2.749	12.3	20.3
2 21	7 0.59	+23 39.0	1.999	2.763	15.3	20.6

405908 2006 HH_{99} 1 12.5 317°.51 4°.3/11.0 18

12 13	7 59.96	+28 41.6	1.395	2.262	15.1	20.8
12 23	7 53.96	+29 46.6	1.326	2.254	10.9	20.6
1 2	7 44.77	+30 51.3	1.282	2.246	6.6	20.3
1 12	7 33.55	+31 46.9	1.263	2.238	4.4	20.1
1 22	7 21.97	+32 26.1	1.271	2.230	7.4	20.3
2 1	7 11.83	+32 45.5	1.304	2.223	11.9	20.5
2 11	7 4.66	+32 46.5	1.360	2.216	16.2	20.8
2 21	7 1.24	+32 32.9	1.434	2.210	19.8	21.0

459191 2012 DQ_{47} 1 12.5 283°.99 4°.4/11.2 17

12 13	8 1.88	+32 0.1	1.804	2.656	12.9	21.9
12 23	7 54.95	+32 34.9	1.715	2.633	9.5	21.6
1 2	7 45.19	+33 4.6	1.651	2.609	6.1	21.3
1 12	7 33.60	+33 22.8	1.614	2.585	4.4	21.2
1 22	7 21.58	+33 25.0	1.606	2.561	6.7	21.3
2 1	7 10.68	+33 9.7	1.625	2.537	10.6	21.4
2 11	7 2.27	+32 39.4	1.669	2.512	14.4	21.6
2 21	6 57.12	+31 58.2	1.733	2.487	17.7	21.8

108444 2001 KM_{46} 1 12.5 136°.46 1°.2/11.9 18

12 13	7 59.77	+21 48.1	2.044	2.890	11.9	20.1
12 23	7 52.83	+22 57.0	1.982	2.902	8.3	19.9
1 2	7 43.79	+24 10.4	1.946	2.912	4.4	19.7
1 12	7 33.52	+25 22.5	1.940	2.923	1.2	19.4
1 22	7 23.11	+26 28.0	1.966	2.932	4.4	19.7
2 1	7 13.70	+27 23.2	2.021	2.941	8.3	19.9
2 11	7 6.26	+28 6.7	2.103	2.950	11.7	20.2
2 21	7 1.39	+28 38.9	2.207	2.958	14.5	20.4

272391 2005 SF_{281} 1 12.5 127°.21 0°.3/12.7 18

12 13	8 2.24	+18 44.3	1.660	2.507	14.1	20.8
12 23	7 54.76	+19 22.3	1.603	2.522	10.0	20.6
1 2	7 44.84	+20 7.5	1.571	2.537	5.3	20.3
1 12	7 33.58	+20 55.2	1.567	2.550	0.4	20.0
1 22	7 22.29	+21 40.3	1.593	2.564	4.6	20.4
2 1	7 12.34	+22 19.5	1.648	2.576	9.2	20.7
2 11	7 4.82	+22 51.1	1.728	2.588	13.1	20.9
2 21	7 0.29	+23 14.9	1.829	2.599	16.3	21.2

353366 2011 FH_{48} 1 12.5 128°.30 0°.7/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 2.40	+20 37.5	1.587	2.439	14.4	21.1
12 23	7 55.03	+21 31.5	1.530	2.452	10.1	20.8
1 2	7 45.06	+22 31.8	1.497	2.464	5.3	20.6
1 12	7 33.59	+23 32.2	1.493	2.476	0.7	20.3
1 22	7 22.05	+24 26.6	1.518	2.487	5.0	20.6
2 1	7 11.89	+25 11.2	1.571	2.498	9.7	20.9
2 11	7 4.29	+25 44.6	1.649	2.508	13.7	21.2
2 21	6 59.85	+26 7.6	1.748	2.517	17.0	21.4

201929 2004 CS_{120} 1 12.5 308°.47 0°.3/12.7 18

12 13	7 55.29	+19 57.1	2.123	2.972	11.4	20.2
12 23	7 49.65	+20 10.4	2.044	2.964	8.1	20.0
1 2	7 42.11	+20 28.2	1.990	2.957	4.3	19.7
1 12	7 33.44	+20 48.1	1.966	2.949	0.4	19.4
1 22	7 24.60	+21 7.4	1.971	2.942	3.8	19.7
2 1	7 16.61	+21 24.1	2.005	2.935	7.7	19.9
2 11	7 10.35	+21 37.0	2.065	2.928	11.2	20.1
2 21	7 6.40	+21 45.8	2.148	2.921	14.1	20.3

166135 2002 CJ_{286} 1 12.5 259°.14 0°.1/12.5 18

12 13	7 59.96	+20 56.7	1.618	2.473	14.0	20.7
12 23	7 53.48	+21 14.8	1.540	2.464	10.0	20.4
1 2	7 44.34	+21 38.2	1.486	2.454	5.3	20.1
1 12	7 33.56	+22 2.9	1.460	2.443	0.3	19.7
1 22	7 22.48	+22 25.0	1.462	2.433	4.9	20.1
2 1	7 12.55	+22 41.7	1.492	2.422	9.8	20.3
2 11	7 5.03	+22 52.3	1.546	2.412	14.1	20.6
2 21	7 0.64	+22 57.0	1.620	2.401	17.7	20.8

321149 2008 UL_{294} 1 12.5 143°.33 0°.9/12.2 18

12 13	7 57.09	+23 31.1	2.227	3.075	10.9	21.0
12 23	7 50.79	+23 49.0	2.157	3.078	7.7	20.8
1 2	7 42.65	+24 8.1	2.114	3.081	4.1	20.5
1 12	7 33.47	+24 25.5	2.101	3.083	0.9	20.3
1 22	7 24.22	+24 38.6	2.117	3.086	3.9	20.5
2 1	7 15.90	+24 46.0	2.163	3.088	7.5	20.8
2 11	7 9.35	+24 47.5	2.236	3.091	10.8	21.0
2 21	7 5.09	+24 43.7	2.331	3.093	13.5	21.2

58767 1998 FQ_{39} 1 12.5 14°.27 1°.0/12.9 18

12 13	7 56.00	+17 47.0	1.506	2.366	14.6	18.5
12 23	7 50.61	+18 9.1	1.444	2.369	10.4	18.2
1 2	7 42.76	+18 40.4	1.406	2.372	5.7	18.0
1 12	7 33.48	+19 17.3	1.394	2.377	1.1	17.7
1 22	7 24.09	+19 55.3	1.409	2.381	4.8	17.9
2 1	7 15.96	+20 30.8	1.451	2.387	9.5	18.2
2 11	7 10.19	+21 1.1	1.517	2.393	13.7	18.5
2 21	7 7.41	+21 25.2	1.604	2.400	17.2	18.7

115894 2003 VD_{4} 1 12.5 329°.77 3°.5/13.6 18

12 13	7 55.97	+12 25.8	2.005	2.839	12.6	19.7
12 23	7 50.10	+11 57.9	1.929	2.836	9.4	19.5
1 2	7 42.33	+11 39.2	1.879	2.832	6.0	19.3
1 12	7 33.46	+11 29.9	1.856	2.829	3.6	19.1
1 22	7 24.47	+11 29.0	1.863	2.826	5.0	19.2
2 1	7 16.39	+11 35.3	1.897	2.823	8.3	19.4
2 11	7 10.09	+11 46.6	1.958	2.821	11.7	19.6
2 21	7 6.12	+12 0.9	2.041	2.818	14.6	19.8

397449 2007 EX_{145} 1 12.5 201°.18 1°.1/12.2 18

12 13	8 2.23	+23 1.4	1.830	2.678	13.0	22.1
12 23	7 54.84	+23 34.5	1.754	2.675	9.2	21.9
1 2	7 44.98	+24 10.5	1.704	2.670	4.9	21.6
1 12	7 33.61	+24 44.8	1.682	2.665	1.1	21.3
1 22	7 21.99	+25 13.0	1.691	2.659	4.8	21.6
2 1	7 11.49	+25 32.7	1.728	2.652	9.2	21.8
2 11	7 3.27	+25 43.5	1.791	2.645	13.1	22.0
2 21	6 57.98	+25 46.6	1.876	2.636	16.3	22.3

422291 2014 SV_{157} 1 12.5 122°.08 2°.5/13.5 18

12 13	7 58.20	+13 48.0	1.959	2.794	12.8	21.5
12 23	7 51.62	+13 51.5	1.896	2.805	9.3	21.3
1 2	7 43.09	+14 4.5	1.858	2.816	5.5	21.1
1 12	7 33.50	+14 25.5	1.849	2.827	2.6	21.0
1 22	7 23.89	+14 51.7	1.869	2.837	4.4	21.1
2 1	7 15.31	+15 20.6	1.919	2.847	8.1	21.4
2 11	7 8.64	+15 49.7	1.994	2.856	11.5	21.6
2 21	7 4.41	+16 17.1	2.092	2.866	14.5	21.8

205608 2001 UK_{128} 1 12.5 111°.06 1°.2/12.1 18

12 13	7 57.30	+25 35.1	2.419	3.265	10.3	20.3
12 23	7 50.78	+25 42.3	2.353	3.272	7.2	20.2
1 2	7 42.58	+25 48.5	2.314	3.279	3.9	20.0
1 12	7 33.48	+25 51.2	2.305	3.286	1.2	19.8
1 22	7 24.38	+25 48.7	2.326	3.293	3.8	20.0
2 1	7 16.20	+25 40.4	2.377	3.300	7.1	20.2
2 11	7 9.71	+25 26.7	2.455	3.306	10.1	20.4
2 21	7 5.37	+25 8.9	2.556	3.312	12.6	20.6

501919 2014 WL_{480} 1 12.5 337°.01 4°.5/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 55.04	+ 9 49.4	1.990	2.818	12.9	20.1
12 23	7 49.46	+ 9 17.6	1.914	2.814	9.8	19.9
1 2	7 42.01	+ 8 57.2	1.863	2.809	6.6	19.7
1 12	7 33.45	+ 8 48.7	1.839	2.805	4.5	19.6
1 22	7 24.77	+ 8 51.7	1.843	2.802	5.6	19.6
2 1	7 16.95	+ 9 4.3	1.875	2.798	8.6	19.8
2 11	7 10.89	+ 9 24.1	1.933	2.795	11.9	20.0
2 21	7 7.12	+ 9 48.0	2.013	2.792	14.8	20.2

429909 2012 TK_{139} 1 12.6 151°.08 0°.7/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.91	+23 35.1	2.776	3.618	9.2	21.5
12 23	7 49.66	+23 47.1	2.706	3.624	6.5	21.4
1 2	7 41.95	+23 59.8	2.664	3.630	3.4	21.2
1 12	7 33.45	+24 10.8	2.652	3.635	0.7	20.9
1 22	7 24.92	+24 18.4	2.672	3.640	3.2	21.2
2 1	7 17.14	+24 21.7	2.722	3.645	6.3	21.4
2 11	7 10.78	+24 20.4	2.800	3.650	9.0	21.6
2 21	7 6.28	+24 15.1	2.902	3.654	11.3	21.7

16332 4117 $T\text{-}_{2}$ 1 12.6 164°.43 0°.3/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.04	+19 40.7	2.710	3.550	9.5	18.6
12 23	7 49.09	+19 58.6	2.637	3.553	6.7	18.5
1 2	7 41.68	+20 20.2	2.592	3.556	3.6	18.3
1 12	7 33.44	+20 43.2	2.576	3.559	0.4	18.0
1 22	7 25.13	+21 5.4	2.592	3.562	3.1	18.2
2 1	7 17.52	+21 25.2	2.638	3.564	6.3	18.5
2 11	7 11.29	+21 41.6	2.712	3.566	9.1	18.6
2 21	7 6.90	+21 54.2	2.810	3.568	11.5	18.8

104564 2000 GO_{72} 1 12.6 302°.10 0°.8/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.97	+22 32.8	2.008	2.861	11.7	19.4
12 23	7 50.34	+22 58.7	1.922	2.845	8.3	19.2
1 2	7 42.58	+23 28.2	1.862	2.829	4.4	18.9
1 12	7 33.50	+23 57.5	1.830	2.813	0.8	18.6
1 22	7 24.12	+24 23.3	1.827	2.797	4.3	18.8
2 1	7 15.59	+24 43.0	1.853	2.781	8.4	19.0
2 11	7 8.94	+24 55.7	1.905	2.765	12.1	19.2
2 21	7 4.82	+25 1.7	1.978	2.750	15.2	19.4

517542 2014 SY_{223} 1 12.6 178°.36 13°.6/16.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.25	− 7 9.1	1.304	2.071	21.6	22.0
12 23	7 57.45	− 8 14.8	1.240	2.075	18.6	21.8
1 2	7 46.55	− 8 45.6	1.194	2.078	15.7	21.6
1 12	7 33.72	− 8 34.9	1.171	2.079	13.8	21.5
1 22	7 20.59	− 7 42.1	1.170	2.079	13.9	21.5
2 1	7 8.91	− 6 12.7	1.194	2.078	15.9	21.6
2 11	7 0.11	− 4 18.1	1.239	2.075	18.8	21.8
2 21	6 54.96	− 2 11.3	1.302	2.070	21.9	22.0

362069 2009 BU_{71} 1 12.6 255°.90 0°.1/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.12	+20 40.1	1.762	2.613	13.3	21.5
12 23	7 53.49	+20 53.6	1.677	2.598	9.5	21.2
1 2	7 44.34	+21 12.0	1.616	2.583	5.1	20.9
1 12	7 33.60	+21 31.8	1.584	2.567	0.3	20.5
1 22	7 22.52	+21 49.6	1.581	2.551	4.6	20.8
2 1	7 12.45	+22 3.2	1.606	2.535	9.3	21.1
2 11	7 4.59	+22 11.6	1.656	2.518	13.5	21.3
2 21	6 59.68	+22 15.0	1.727	2.501	17.0	21.5

345140 2005 SH_{53} 1 12.6 133°.99 1°.3/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.22	+24 7.6	1.609	2.461	14.2	21.1
12 23	7 56.26	+24 28.6	1.551	2.473	10.0	20.9
1 2	7 45.68	+24 50.4	1.518	2.484	5.3	20.6
1 12	7 33.67	+25 8.3	1.513	2.495	1.3	20.4
1 22	7 21.69	+25 18.7	1.537	2.505	5.1	20.7
2 1	7 11.23	+25 20.2	1.589	2.514	9.7	20.9
2 11	7 3.41	+25 13.9	1.666	2.523	13.7	21.2
2 21	6 58.81	+25 1.6	1.763	2.531	16.9	21.4

382342 2013 TN_{53} 1 12.6 258°.24 0°.2/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.02	+20 51.4	2.129	2.977	11.4	21.0
12 23	7 50.83	+20 54.0	2.054	2.974	8.1	20.8
1 2	7 42.73	+20 59.8	2.005	2.971	4.3	20.6
1 12	7 33.54	+21 6.3	1.985	2.968	0.3	20.2
1 22	7 24.24	+21 11.6	1.995	2.965	3.8	20.5
2 1	7 15.86	+21 14.4	2.034	2.962	7.7	20.7
2 11	7 9.27	+21 14.1	2.099	2.959	11.1	21.0
2 21	7 5.04	+21 10.8	2.187	2.956	14.0	21.2

355355 2007 TQ_{198} 1 12.6 207°.53 0°.1/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.67	+20 27.0	1.972	2.816	12.3	22.0
12 23	7 53.58	+20 42.4	1.892	2.811	8.8	21.7
1 2	7 44.27	+21 2.0	1.839	2.805	4.7	21.5
1 12	7 33.62	+21 22.7	1.815	2.798	0.3	21.1
1 22	7 22.76	+21 41.4	1.821	2.791	4.2	21.4
2 1	7 12.90	+21 56.1	1.856	2.783	8.4	21.6
2 11	7 5.06	+22 6.0	1.917	2.774	12.2	21.9
2 21	6 59.88	+22 11.3	2.001	2.765	15.3	22.1

415859 2001 SE_{142} 1 12.6 183°.74 4°.1/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 2.94	+33 32.2	2.185	3.026	11.4	21.5
12 23	7 55.09	+34 2.2	2.115	3.026	8.4	21.3
1 2	7 45.01	+34 25.3	2.073	3.026	5.5	21.1
1 12	7 33.66	+34 36.5	2.059	3.026	4.1	21.0
1 22	7 22.26	+34 33.0	2.075	3.025	5.9	21.2
2 1	7 12.03	+34 14.6	2.121	3.023	8.9	21.3
2 11	7 3.99	+33 43.7	2.192	3.021	11.9	21.5
2 21	6 58.69	+33 4.2	2.285	3.018	14.5	21.7

190253 2007 GX_{33} 1 12.6 224°.97 4°.9/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.24	+34 28.7	2.304	3.146	10.9	20.2
12 23	7 53.35	+35 39.2	2.229	3.138	8.2	20.0
1 2	7 44.20	+36 44.6	2.182	3.130	5.7	19.8
1 12	7 33.63	+37 38.5	2.163	3.121	4.9	19.8
1 22	7 22.75	+38 16.2	2.175	3.112	6.6	19.9
2 1	7 12.78	+38 35.7	2.215	3.102	9.3	20.0
2 11	7 4.80	+38 38.4	2.280	3.092	12.1	20.2
2 21	6 59.47	+38 27.4	2.365	3.082	14.5	20.3

334949 2004 CS_{43} 1 12.6 31°.52 4°.3/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.90	+33 18.6	1.850	2.703	12.6	19.9
12 23	7 53.09	+33 38.6	1.795	2.712	9.2	19.8
1 2	7 43.95	+33 50.8	1.765	2.722	5.9	19.6
1 12	7 33.61	+33 50.6	1.762	2.732	4.3	19.5
1 22	7 23.37	+33 35.5	1.788	2.742	6.2	19.6
2 1	7 14.53	+33 6.2	1.842	2.754	9.5	19.9
2 11	7 8.08	+32 25.7	1.920	2.765	12.7	20.1
2 21	7 4.51	+31 37.8	2.019	2.777	15.4	20.3

279532 2011 BG_{54} 1 12.6 141°.60 0°.9/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.79	+17 25.2	2.082	2.925	11.8	20.5
12 23	7 50.68	+17 51.8	2.013	2.930	8.4	20.3
1 2	7 42.66	+18 25.5	1.970	2.934	4.6	20.1
1 12	7 33.55	+19 3.2	1.955	2.938	0.9	19.8
1 22	7 24.32	+19 41.7	1.971	2.942	3.8	20.1
2 1	7 16.01	+20 18.0	2.016	2.945	7.7	20.3
2 11	7 9.49	+20 50.2	2.087	2.949	11.1	20.5
2 21	7 5.31	+21 17.2	2.181	2.952	14.0	20.7

369571 2011 BW_{68} 1 12.6 109°.93 2°.4/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.30	+27 1.1	1.975	2.827	12.0	22.0
12 23	7 52.57	+27 41.1	1.915	2.836	8.5	21.8
1 2	7 43.69	+28 20.0	1.880	2.845	4.8	21.5
1 12	7 33.61	+28 53.1	1.875	2.853	2.4	21.4
1 22	7 23.48	+29 16.4	1.898	2.861	5.0	21.6
2 1	7 14.48	+29 28.6	1.951	2.869	8.6	21.8
2 11	7 7.59	+29 30.0	2.029	2.877	12.0	22.1
2 21	7 3.36	+29 22.7	2.128	2.885	14.8	22.3

29789 1999 CD_{64} 1 12.6 68°.94 1°.3/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.48	+26 17.7	1.654	2.507	13.8	17.8
12 23	7 55.58	+25 59.3	1.598	2.520	9.8	17.6
1 2	7 45.25	+25 37.9	1.567	2.533	5.2	17.3
1 12	7 33.69	+25 10.9	1.564	2.546	1.3	17.1
1 22	7 22.34	+24 37.3	1.590	2.559	4.9	17.4
2 1	7 12.56	+23 58.3	1.645	2.573	9.2	17.6
2 11	7 5.36	+23 16.3	1.725	2.586	13.1	17.9
2 21	7 1.23	+22 33.6	1.826	2.599	16.3	18.2

122767 2000 SJ_{71} 1 12.6 147°.57 0°.7/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.04	+18 28.0	1.918	2.759	12.8	21.2
12 23	7 53.73	+18 48.2	1.854	2.770	9.1	21.0
1 2	7 44.29	+19 14.5	1.815	2.780	4.9	20.7
1 12	7 33.65	+19 43.5	1.806	2.789	0.8	20.4
1 22	7 22.97	+20 11.9	1.827	2.797	4.1	20.7
2 1	7 13.40	+20 37.3	1.877	2.805	8.3	21.0
2 11	7 5.93	+20 58.3	1.953	2.812	11.9	21.2
2 21	7 1.09	+21 14.6	2.052	2.818	15.0	21.4

189771 2002 CY_{74} 1 12.6 254°.43 2°.5/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.07	+28 26.1	2.128	2.976	11.4	20.1
12 23	7 53.17	+28 43.8	2.044	2.963	8.2	19.9
1 2	7 44.07	+28 58.7	1.986	2.949	4.7	19.6
1 12	7 33.65	+29 6.8	1.958	2.936	2.5	19.5
1 22	7 23.02	+29 5.5	1.959	2.922	4.9	19.6
2 1	7 13.37	+28 53.8	1.989	2.907	8.5	19.8
2 11	7 5.71	+28 32.9	2.046	2.893	12.0	20.0
2 21	7 0.68	+28 5.3	2.124	2.878	14.9	20.2

264767 2002 FY_{13} 1 12.6 45°.13 0°.2/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.12	+19 37.0	1.780	2.633	13.0	20.2
12 23	7 51.16	+20 1.3	1.716	2.638	9.2	20.0
1 2	7 43.00	+20 31.6	1.676	2.643	4.9	19.7
1 12	7 33.59	+21 4.3	1.665	2.648	0.4	19.4
1 22	7 24.09	+21 35.7	1.682	2.653	4.3	19.7
2 1	7 15.71	+22 2.9	1.728	2.659	8.6	20.0
2 11	7 9.42	+22 24.6	1.798	2.664	12.4	20.2
2 21	7 5.82	+22 40.2	1.890	2.670	15.6	20.5

252299 2001 RV_{25} 1 12.6 66°.87 7°.6/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.82	+40 50.7	1.663	2.503	14.5	20.1
12 23	7 58.31	+41 30.4	1.617	2.517	11.3	19.9
1 2	7 46.81	+41 54.0	1.595	2.530	8.6	19.8
1 12	7 33.79	+41 54.2	1.598	2.544	7.6	19.8
1 22	7 21.06	+41 28.2	1.629	2.558	9.1	19.9
2 1	7 10.31	+40 38.5	1.686	2.572	11.8	20.1
2 11	7 2.73	+39 31.6	1.766	2.586	14.7	20.3
2 21	6 58.77	+38 14.6	1.866	2.601	17.3	20.5

62560 2000 SZ_{268} 1 12.6 186°.19 2°.2/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.69	+26 22.5	2.166	3.015	11.2	19.2
12 23	7 52.11	+27 8.9	2.095	3.015	7.9	19.0
1 2	7 43.48	+27 55.4	2.050	3.014	4.4	18.7
1 12	7 33.63	+28 37.2	2.035	3.014	2.2	18.6
1 22	7 23.62	+29 10.5	2.050	3.013	4.7	18.8
2 1	7 14.54	+29 33.1	2.094	3.011	8.2	19.0
2 11	7 7.36	+29 44.9	2.165	3.009	11.5	19.2
2 21	7 2.66	+29 47.4	2.257	3.007	14.2	19.4

406205 2006 XM_{63} 1 12.6 46°.43 4°.4/14.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.51	+ 8 1.2	1.309	2.149	17.6	20.0
12 23	7 52.25	+ 8 45.3	1.274	2.181	13.1	19.8
1 2	7 43.55	+ 9 50.9	1.261	2.214	8.3	19.6
1 12	7 33.63	+11 13.1	1.273	2.247	4.6	19.5
1 22	7 23.95	+12 44.2	1.313	2.280	5.9	19.6
2 1	7 15.86	+14 16.3	1.379	2.314	10.0	20.0
2 11	7 10.38	+15 42.9	1.470	2.348	13.9	20.3
2 21	7 7.95	+16 59.7	1.582	2.382	17.2	20.6

501740 2014 UV_{98} 1 12.6 44°.77 1°.8/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.61	+15 13.5	1.760	2.606	13.5	21.1
12 23	7 50.80	+15 33.4	1.693	2.610	9.7	20.9
1 2	7 42.83	+16 3.6	1.651	2.614	5.6	20.6
1 12	7 33.61	+16 41.3	1.637	2.618	1.9	20.4
1 22	7 24.27	+17 22.9	1.651	2.622	4.4	20.6
2 1	7 15.99	+18 4.6	1.694	2.626	8.6	20.8
2 11	7 9.76	+18 43.5	1.761	2.631	12.4	21.1
2 21	7 6.18	+19 17.8	1.851	2.635	15.7	21.3

238743 2005 GV_{134} 1 12.6 108°.69 4°.0/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.64	+ 8 32.5	2.365	3.181	11.5	20.8
12 23	7 48.92	+ 8 17.4	2.296	3.188	8.8	20.6
1 2	7 41.66	+ 8 13.6	2.252	3.194	6.0	20.5
1 12	7 33.55	+ 8 21.0	2.236	3.201	4.1	20.3
1 22	7 25.38	+ 8 38.2	2.250	3.207	4.9	20.4
2 1	7 17.99	+ 9 3.2	2.293	3.213	7.4	20.6
2 11	7 12.07	+ 9 33.4	2.363	3.219	10.2	20.8
2 21	7 8.11	+10 6.1	2.456	3.225	12.7	20.9

192550 1998 TC_{20} 1 12.6 53°.35 0°.2/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.50	+21 13.7	1.825	2.679	12.7	21.0
12 23	7 51.27	+21 30.0	1.771	2.694	8.9	20.8
1 2	7 42.99	+21 49.9	1.742	2.709	4.7	20.6
1 12	7 33.62	+22 10.2	1.742	2.725	0.3	20.3
1 22	7 24.30	+22 27.8	1.770	2.741	4.2	20.6
2 1	7 16.17	+22 40.8	1.827	2.757	8.3	20.9
2 11	7 10.13	+22 48.8	1.909	2.773	11.9	21.1
2 21	7 6.68	+22 51.7	2.013	2.790	14.8	21.4

68701 2002 CJ_{200} 1 12.6 190°.35 0°.0/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.45	+19 58.8	1.972	2.816	12.4	20.9
12 23	7 53.43	+20 27.2	1.897	2.815	8.8	20.6
1 2	7 44.22	+21 0.8	1.847	2.813	4.7	20.4
1 12	7 33.70	+21 36.0	1.827	2.811	0.3	20.0
1 22	7 22.98	+22 9.1	1.838	2.808	4.2	20.3
2 1	7 13.26	+22 37.3	1.877	2.804	8.4	20.6
2 11	7 5.56	+22 59.4	1.944	2.800	12.1	20.8
2 21	7 0.49	+23 15.3	2.032	2.795	15.2	21.0

341367 2007 TQ_{93} 1 12.6 96°.74 9°.0/17.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.02	− 8 27.5	2.466	3.194	13.5	21.1
12 23	7 48.44	− 9 15.8	2.404	3.205	11.8	21.0
1 2	7 41.39	− 9 43.2	2.364	3.217	10.2	20.9
1 12	7 33.54	− 9 47.2	2.349	3.228	9.2	20.8
1 22	7 25.64	− 9 28.0	2.359	3.238	9.2	20.8
2 1	7 18.48	− 8 47.8	2.396	3.249	10.1	20.9
2 11	7 12.72	− 7 51.2	2.457	3.260	11.6	21.0
2 21	7 8.82	− 6 43.4	2.539	3.270	13.3	21.2

410826 2009 PE_{4} 1 12.6 122°.87 3°.3/14.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.21	+10 28.2	2.138	2.961	12.3	21.6
12 23	7 50.83	+10 35.0	2.074	2.974	9.2	21.5
1 2	7 42.70	+10 53.5	2.037	2.987	5.8	21.3
1 12	7 33.62	+11 22.2	2.028	3.000	3.4	21.2
1 22	7 24.50	+11 58.7	2.048	3.012	4.6	21.3
2 1	7 16.31	+12 39.8	2.099	3.024	7.7	21.5
2 11	7 9.83	+13 22.4	2.176	3.035	10.8	21.7
2 21	7 5.55	+14 4.0	2.276	3.046	13.5	21.9

522369 2016 CS_{301} 1 12.6 66°.51 8°.0/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 7.47	+43 12.1	1.790	2.621	14.0	20.6
12 23	7 58.68	+43 49.7	1.745	2.635	11.2	20.4
1 2	7 46.98	+44 9.8	1.723	2.649	8.9	20.3
1 12	7 33.85	+44 5.4	1.728	2.664	8.1	20.3
1 22	7 21.04	+43 34.3	1.759	2.678	9.3	20.4
2 1	7 10.20	+42 39.0	1.817	2.693	11.7	20.6
2 11	7 2.48	+41 26.3	1.898	2.708	14.3	20.8
2 21	6 58.30	+40 3.2	2.000	2.722	16.6	21.0

18387 1992 GN_{3} 1 12.6 173°.72 1°.1/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.01	+23 38.1	2.069	2.913	11.9	19.9
12 23	7 54.43	+24 4.8	1.998	2.917	8.4	19.7
1 2	7 44.71	+24 32.9	1.954	2.920	4.5	19.5
1 12	7 33.75	+24 58.4	1.940	2.922	1.1	19.2
1 22	7 22.68	+25 17.9	1.956	2.924	4.3	19.5
2 1	7 12.67	+25 29.8	2.002	2.924	8.2	19.7
2 11	7 4.70	+25 34.2	2.075	2.924	11.7	19.9
2 21	6 59.35	+25 32.1	2.170	2.923	14.6	20.1

27634 4200 $P\text{–}L$ 1 12.6 134°.33 2°.8/13.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.58	+13 8.8	1.780	2.612	14.0	19.8
12 23	7 54.16	+13 13.4	1.719	2.627	10.2	19.6
1 2	7 44.55	+13 29.1	1.684	2.641	6.1	19.4
1 12	7 33.74	+13 53.8	1.677	2.654	2.9	19.2
1 22	7 22.93	+14 24.6	1.699	2.667	4.9	19.4
2 1	7 13.33	+14 58.2	1.751	2.678	8.8	19.7
2 11	7 5.91	+15 31.9	1.828	2.689	12.5	19.9
2 21	7 1.22	+16 3.6	1.927	2.699	15.6	20.1

293171 2006 YT_{48} 1 12.6 31°.19 0°.4/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.16	+18 48.7	1.531	2.390	14.4	21.1
12 23	7 51.44	+19 20.0	1.472	2.397	10.2	20.9
1 2	7 43.26	+19 59.5	1.436	2.404	5.5	20.6
1 12	7 33.67	+20 42.8	1.428	2.411	0.5	20.3
1 22	7 24.00	+21 25.0	1.447	2.419	4.7	20.6
2 1	7 15.60	+22 2.5	1.493	2.427	9.4	20.9
2 11	7 9.59	+22 33.0	1.563	2.436	13.6	21.2
2 21	7 6.56	+22 55.9	1.654	2.445	17.0	21.4

11403 1999 BW 1 12.6 284°.74 0°.7/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.28	+22 7.8	1.751	2.606	13.1	18.7
12 23	7 52.25	+22 35.0	1.669	2.593	9.3	18.4
1 2	7 43.75	+23 6.6	1.613	2.580	5.0	18.1
1 12	7 33.72	+23 38.4	1.584	2.567	0.8	17.8
1 22	7 23.35	+24 6.2	1.584	2.554	4.7	18.0
2 1	7 14.02	+24 27.3	1.612	2.542	9.3	18.3
2 11	7 6.87	+24 40.6	1.665	2.529	13.4	18.5
2 21	7 2.63	+24 46.7	1.739	2.516	16.8	18.7

36612 2000 QQ_{145} 1 12.6 28°.52 4°.3/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.48	+ 8 42.6	1.724	2.556	14.4	18.8
12 23	7 50.03	+ 8 55.3	1.657	2.559	10.9	18.6
1 2	7 42.46	+ 9 24.7	1.613	2.563	7.2	18.4
1 12	7 33.65	+10 9.4	1.596	2.567	4.4	18.3
1 22	7 24.70	+11 5.8	1.607	2.571	5.6	18.3
2 1	7 16.77	+12 9.1	1.645	2.575	9.1	18.5
2 11	7 10.84	+13 14.2	1.709	2.580	12.7	18.8
2 21	7 7.49	+14 17.1	1.794	2.585	15.9	19.0

267464 2002 EF_{104} 1 12.6 323°.36 6°.2/15.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.10	+ 3 54.6	1.714	2.531	15.2	19.5
12 23	7 49.19	+ 4 2.9	1.632	2.520	12.0	19.3
1 2	7 42.10	+ 4 33.1	1.573	2.509	8.7	19.1
1 12	7 33.64	+ 5 25.2	1.539	2.498	6.4	18.9
1 22	7 24.87	+ 6 36.3	1.533	2.488	6.9	18.9
2 1	7 16.96	+ 8 1.0	1.553	2.478	9.9	19.1
2 11	7 10.98	+ 9 32.5	1.599	2.469	13.4	19.3
2 21	7 7.61	+11 4.2	1.667	2.461	16.7	19.5

358547 2007 TJ_{132} 1 12.6 319°.20 10°.4/15.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.45	− 1 35.8	1.531	2.327	17.6	20.8
12 23	7 50.98	− 2 40.7	1.459	2.321	14.8	20.6
1 2	7 43.08	− 3 21.0	1.408	2.314	12.2	20.4
1 12	7 33.70	− 3 32.2	1.381	2.308	10.5	20.3
1 22	7 24.04	− 3 13.3	1.378	2.302	10.8	20.3
2 1	7 15.43	− 2 27.3	1.399	2.297	13.0	20.4
2 11	7 9.02	− 1 20.8	1.442	2.292	15.9	20.6
2 21	7 5.51	− 0 2.0	1.505	2.287	18.8	20.7

448137 2008 SV_{115} 1 12.6 351°.54 4°.7/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.48	+29 19.2	1.323	2.191	15.7	20.4
12 23	7 55.16	+30 25.8	1.263	2.190	11.4	20.1
1 2	7 45.51	+31 30.7	1.225	2.188	6.9	19.9
1 12	7 33.83	+32 24.3	1.213	2.187	4.8	19.7
1 22	7 21.90	+32 59.4	1.228	2.187	7.7	19.9
2 1	7 11.61	+33 13.3	1.267	2.186	12.3	20.1
2 11	7 4.48	+33 8.2	1.329	2.186	16.5	20.4
2 21	7 1.23	+32 48.6	1.409	2.186	20.0	20.6

149974 2005 TY_{191} 1 12.6 173°.24 1°.5/13.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 54.04	+16 20.5	2.847	3.680	9.3	19.9
12 23	7 48.37	+16 13.2	2.771	3.681	6.7	19.7
1 2	7 41.36	+16 10.6	2.722	3.682	3.8	19.6
1 12	7 33.61	+16 11.8	2.703	3.682	1.5	19.4
1 22	7 25.79	+16 15.6	2.714	3.683	3.2	19.5
2 1	7 18.63	+16 21.0	2.757	3.683	6.0	19.7
2 11	7 12.73	+16 26.9	2.827	3.684	8.7	19.9
2 21	7 8.52	+16 32.5	2.921	3.684	11.0	20.0

444455 2006 DG_{206} 1 12.6 29°.43 1°.6/12.2 16

12 13	7 59.68	+23 40.9	1.107	1.985	17.3	21.1
12 23	7 53.84	+24 8.5	1.061	1.994	12.2	20.9
1 2	7 44.72	+24 39.3	1.036	2.005	6.5	20.6
1 12	7 33.80	+25 6.9	1.035	2.017	1.7	20.3
1 22	7 22.96	+25 25.9	1.059	2.030	6.2	20.6
2 1	7 14.06	+25 34.0	1.107	2.044	11.7	21.0
2 11	7 8.43	+25 31.9	1.177	2.058	16.4	21.3
2 21	7 6.63	+25 21.5	1.265	2.073	20.3	21.6

98131 2000 SX_{30} 1 12.6 27°.75 2°.4/11.9 18

12 13	7 59.79	+25 13.6	1.160	2.035	16.8	19.0
12 23	7 53.87	+25 44.8	1.112	2.044	11.9	18.7
1 2	7 44.73	+26 17.1	1.085	2.054	6.4	18.4
1 12	7 33.80	+26 43.8	1.083	2.065	2.4	18.2
1 22	7 22.93	+26 59.6	1.107	2.076	6.4	18.5
2 1	7 13.95	+27 2.7	1.155	2.088	11.6	18.8
2 11	7 8.18	+26 54.5	1.224	2.101	16.2	19.1
2 21	7 6.18	+26 37.6	1.312	2.115	20.0	19.4

254667 2005 LC_{6} 1 12.6 119°.01 0°.8/12.2 18

12 13	8 0.02	+20 46.8	2.017	2.861	12.1	20.5
12 23	7 53.04	+21 51.7	1.959	2.878	8.5	20.3
1 2	7 43.99	+23 1.5	1.928	2.894	4.4	20.1
1 12	7 33.77	+24 10.9	1.926	2.909	0.8	19.9
1 22	7 23.47	+25 14.6	1.956	2.924	4.2	20.2
2 1	7 14.21	+26 8.9	2.015	2.938	8.1	20.4
2 11	7 6.94	+26 52.4	2.102	2.952	11.5	20.7
2 21	7 2.22	+27 25.3	2.210	2.965	14.3	20.9

10669 Herfordia 1 12.6 220°.39 2°.7/13.3 18

12 13	7 58.85	+14 29.6	2.156	2.987	11.9	18.0
12 23	7 52.13	+14 3.5	2.074	2.981	8.8	17.8
1 2	7 43.49	+13 44.2	2.017	2.974	5.3	17.5
1 12	7 33.75	+13 31.2	1.990	2.967	2.7	17.3
1 22	7 23.85	+13 23.9	1.993	2.959	4.5	17.4
2 1	7 14.81	+13 21.4	2.026	2.951	7.9	17.6
2 11	7 7.52	+13 22.4	2.085	2.943	11.3	17.8
2 21	7 2.55	+13 25.6	2.167	2.934	14.2	18.0

63474 2001 OR_{27} 1 12.6 68°.59 5°.4/10.9 18

12 13	8 3.94	+31 0.3	1.303	2.169	16.1	19.5
12 23	7 56.76	+32 9.8	1.257	2.181	11.7	19.3
1 2	7 46.27	+33 13.7	1.234	2.194	7.4	19.1
1 12	7 33.92	+34 2.2	1.236	2.207	5.4	19.0
1 22	7 21.60	+34 29.0	1.265	2.220	8.1	19.2
2 1	7 11.22	+34 33.0	1.319	2.233	12.3	19.5
2 11	7 4.15	+34 17.9	1.395	2.246	16.2	19.8
2 21	7 0.98	+33 49.3	1.490	2.260	19.5	20.0

123291 2000 UH_{101} 1 12.6 83°.83 4°.5/10.9 18

12 13	8 3.33	+33 19.5	1.992	2.837	12.2	19.8
12 23	7 55.35	+34 11.2	1.953	2.866	8.9	19.6
1 2	7 45.16	+34 55.2	1.941	2.894	5.8	19.5
1 12	7 33.86	+35 25.9	1.957	2.922	4.6	19.5
1 22	7 22.76	+35 39.9	2.002	2.949	6.3	19.6
2 1	7 13.08	+35 37.3	2.076	2.976	9.2	19.9
2 11	7 5.78	+35 20.7	2.175	3.003	12.1	20.1
2 21	7 1.31	+34 54.1	2.295	3.029	14.4	20.3

51150 2000 HJ_{53} 1 12.6 70°.24 4°.2/11.2 18

12 13	8 2.60	+28 32.2	1.359	2.224	15.5	17.5
12 23	7 55.73	+29 37.0	1.308	2.234	11.1	17.2
1 2	7 45.71	+30 39.8	1.280	2.243	6.6	17.0
1 12	7 33.91	+31 31.7	1.278	2.253	4.2	16.9
1 22	7 22.04	+32 6.2	1.303	2.263	7.2	17.1
2 1	7 11.91	+32 21.1	1.354	2.273	11.6	17.3
2 11	7 4.86	+32 18.7	1.427	2.283	15.7	17.6
2 21	7 1.51	+32 3.1	1.519	2.293	19.0	17.9

209410 2004 FT_{11} 1 12.6 358°.28 3°.4/13.8 18

12 13	7 54.87	+11 44.8	2.158	2.989	11.9	20.0
12 23	7 49.29	+11 26.9	2.084	2.988	8.9	19.8
1 2	7 41.99	+11 18.7	2.036	2.988	5.7	19.6
1 12	7 33.70	+11 19.9	2.015	2.987	3.4	19.4
1 22	7 25.32	+11 29.2	2.024	2.987	4.7	19.5
2 1	7 17.75	+11 45.0	2.061	2.987	7.8	19.7
2 11	7 11.81	+12 4.9	2.125	2.988	10.9	19.9
2 21	7 8.01	+12 26.6	2.211	2.988	13.7	20.1

306327 2011 SA_{106} 1 12.6 164°.15 1°.9/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 1.07	+15 21.5	1.968	2.801	12.8	22.5
12 23	7 53.78	+15 28.0	1.898	2.808	9.3	22.3
1 2	7 44.41	+15 42.9	1.854	2.814	5.3	22.0
1 12	7 33.85	+16 3.8	1.839	2.819	2.0	21.8
1 22	7 23.20	+16 28.1	1.854	2.823	4.3	22.0
2 1	7 13.60	+16 53.4	1.899	2.826	8.2	22.2
2 11	7 5.98	+17 17.7	1.970	2.829	11.8	22.4
2 21	7 0.92	+17 39.7	2.064	2.831	14.8	22.7

27964 1997 SW_{15} 1 12.6 109°.22 0°.3/12.5 18

12 13	7 59.85	+21 29.9	1.903	2.752	12.5	18.9
12 23	7 52.95	+21 46.8	1.844	2.764	8.8	18.7
1 2	7 43.96	+22 6.9	1.810	2.777	4.6	18.5
1 12	7 33.84	+22 26.7	1.806	2.789	0.3	18.2
1 22	7 23.72	+22 43.3	1.830	2.801	4.2	18.5
2 1	7 14.77	+22 55.0	1.884	2.812	8.2	18.8
2 11	7 7.92	+23 1.3	1.964	2.824	11.8	19.0
2 21	7 3.68	+23 2.7	2.066	2.835	14.8	19.3

273326 2006 TF_{44} 1 12.6 112°.69 0°.7/12.9 18

12 13	8 0.37	+18 27.9	2.032	2.872	12.2	21.8
12 23	7 53.13	+18 42.7	1.977	2.893	8.6	21.6
1 2	7 43.99	+19 2.8	1.948	2.912	4.7	21.4
1 12	7 33.84	+19 25.3	1.949	2.932	0.8	21.1
1 22	7 23.77	+19 47.5	1.980	2.950	3.9	21.4
2 1	7 14.80	+20 7.3	2.041	2.968	7.7	21.7
2 11	7 7.80	+20 23.6	2.128	2.986	11.1	21.9
2 21	7 3.25	+20 36.1	2.238	3.003	13.9	22.1

129048 2004 VV_{5} 1 12.6 333°.80 6°.6/ 9.6 18

12 13	7 59.64	+36 4.2	1.758	2.612	13.1	19.1
12 23	7 53.54	+37 28.2	1.694	2.605	10.1	18.9
1 2	7 44.60	+38 44.9	1.653	2.599	7.4	18.7
1 12	7 33.89	+39 45.6	1.640	2.594	6.7	18.6
1 22	7 22.85	+40 24.1	1.654	2.588	8.6	18.7
2 1	7 13.06	+40 38.2	1.694	2.583	11.7	18.9
2 11	7 5.88	+40 30.5	1.757	2.579	14.7	19.1
2 21	7 2.04	+40 5.6	1.839	2.575	17.5	19.3

241328 2007 VR_{155} 1 12.6 128°.75 2°.7/13.7 18

12 13	7 55.46	+12 48.7	2.477	3.303	10.7	20.8
12 23	7 49.51	+12 33.1	2.406	3.309	7.9	20.7
1 2	7 42.04	+12 25.2	2.362	3.315	4.9	20.5
1 12	7 33.74	+12 24.5	2.346	3.320	2.8	20.3
1 22	7 25.39	+12 29.9	2.361	3.326	4.0	20.4
2 1	7 17.81	+12 40.0	2.406	3.331	6.9	20.6
2 11	7 11.69	+12 53.1	2.478	3.336	9.7	20.8
2 21	7 7.48	+13 7.5	2.574	3.341	12.2	21.0

441461 2008 PA_{19} 1 12.6 90°.02 0°.9/12.9 18

12 13	8 3.62	+18 25.9	1.477	2.327	15.4	21.5
12 23	7 55.84	+18 41.5	1.431	2.352	10.9	21.3
1 2	7 45.53	+19 4.4	1.410	2.376	5.8	21.1
1 12	7 33.93	+19 30.4	1.417	2.400	1.0	20.8
1 22	7 22.54	+19 55.7	1.452	2.423	4.8	21.1
2 1	7 12.77	+20 17.6	1.514	2.446	9.6	21.5
2 11	7 5.69	+20 34.8	1.602	2.468	13.6	21.8
2 21	7 1.77	+20 47.3	1.710	2.490	16.9	22.0

453820 2011 SL_{117} 1 12.6 89°.17 1°.2/12.3 18

12 13	8 3.22	+24 9.7	1.546	2.401	14.5	21.3
12 23	7 55.62	+24 22.9	1.495	2.418	10.2	21.0
1 2	7 45.44	+24 36.7	1.468	2.435	5.4	20.8
1 12	7 33.93	+24 46.7	1.469	2.451	1.2	20.6
1 22	7 22.56	+24 49.9	1.498	2.468	5.0	20.9
2 1	7 12.78	+24 45.4	1.555	2.484	9.6	21.2
2 11	7 5.67	+24 34.2	1.637	2.499	13.6	21.4
2 21	7 1.73	+24 18.2	1.739	2.515	16.9	21.7

202356 2005 EF_{214} 1 12.6 314°.02 1°.2/12.1 18

12 13	7 56.34	+23 41.5	1.932	2.787	12.0	20.6
12 23	7 50.74	+24 10.0	1.851	2.775	8.5	20.3
1 2	7 42.94	+24 41.1	1.796	2.763	4.6	20.1
1 12	7 33.80	+25 10.7	1.769	2.751	1.2	19.8
1 22	7 24.40	+25 35.3	1.771	2.740	4.5	20.0
2 1	7 15.93	+25 52.5	1.801	2.728	8.6	20.2
2 11	7 9.42	+26 1.6	1.856	2.717	12.3	20.5
2 21	7 5.53	+26 3.2	1.933	2.707	15.5	20.6

294015 2007 TG_{103} 1 12.6 130°.67 2°.7/13.8 18

12 13	7 54.69	+12 22.1	2.405	3.233	11.0	21.2
12 23	7 49.04	+12 20.6	2.332	3.236	8.1	21.1
1 2	7 41.82	+12 28.0	2.286	3.239	5.0	20.9
1 12	7 33.73	+12 43.2	2.268	3.243	2.8	20.7
1 22	7 25.56	+13 4.6	2.280	3.246	4.0	20.8
2 1	7 18.14	+13 30.1	2.322	3.249	7.0	21.0
2 11	7 12.18	+13 57.4	2.391	3.252	9.9	21.2
2 21	7 8.17	+14 24.7	2.484	3.255	12.5	21.4

432003 2008 UC_{326} 1 12.6 164°.74 14°.6/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 4.52	− 5 6.0	1.259	2.041	21.5	20.9
12 23	7 57.02	− 7 19.4	1.202	2.045	18.6	20.7
1 2	7 46.45	− 9 3.1	1.164	2.047	16.1	20.6
1 12	7 34.01	−10 7.4	1.148	2.050	14.7	20.5
1 22	7 21.34	−10 27.9	1.155	2.052	15.1	20.5
2 1	7 10.17	−10 6.6	1.184	2.053	17.1	20.6
2 11	7 1.90	− 9 12.0	1.232	2.054	19.8	20.8
2 21	6 57.27	− 7 55.6	1.296	2.054	22.4	21.0

269369 2008 WK_{140} 1 12.6 62°.82 0°.6/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.12	+22 28.9	2.064	2.915	11.6	20.6
12 23	7 51.00	+22 45.3	1.998	2.920	8.2	20.4
1 2	7 42.94	+23 4.1	1.957	2.924	4.3	20.2
1 12	7 33.81	+23 22.1	1.946	2.929	0.6	19.9
1 22	7 24.61	+23 36.6	1.964	2.934	4.0	20.2
2 1	7 16.39	+23 46.0	2.010	2.938	7.8	20.4
2 11	7 10.06	+23 50.0	2.083	2.943	11.2	20.6
2 21	7 6.12	+23 49.0	2.179	2.948	14.1	20.8

462092 2007 HA_{22} 1 12.6 182°.19 1°.0/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.77	+23 28.7	2.330	3.176	10.6	22.1
12 23	7 51.35	+23 57.5	2.257	3.176	7.5	21.9
1 2	7 43.12	+24 28.0	2.211	3.177	4.0	21.7
1 12	7 33.82	+24 56.8	2.194	3.176	1.0	21.5
1 22	7 24.40	+25 20.9	2.208	3.176	3.9	21.7
2 1	7 15.83	+25 38.5	2.252	3.175	7.4	21.9
2 11	7 8.95	+25 49.2	2.323	3.174	10.5	22.1
2 21	7 4.31	+25 53.4	2.416	3.172	13.2	22.3

203753 2002 RY_{117} 1 12.6 84°.25 4°.0/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.88	+ 9 13.0	2.206	3.025	12.1	20.6
12 23	7 49.88	+ 8 58.4	2.146	3.041	9.2	20.4
1 2	7 42.26	+ 8 55.4	2.111	3.057	6.1	20.2
1 12	7 33.78	+ 9 3.6	2.105	3.072	4.1	20.1
1 22	7 25.31	+ 9 21.5	2.129	3.088	4.9	20.2
2 1	7 17.74	+ 9 46.8	2.181	3.103	7.7	20.4
2 11	7 11.78	+10 16.7	2.260	3.118	10.5	20.6
2 21	7 7.90	+10 48.5	2.361	3.133	13.1	20.8

159580 2001 VF_{102} 1 12.6 194°.23 2°.6/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.32	+15 13.1	1.716	2.555	14.1	20.4
12 23	7 54.26	+14 58.7	1.642	2.554	10.3	20.2
1 2	7 44.80	+14 53.0	1.593	2.552	6.1	19.9
1 12	7 33.93	+14 54.6	1.571	2.550	2.7	19.7
1 22	7 22.90	+15 1.7	1.579	2.547	5.0	19.8
2 1	7 13.02	+15 12.5	1.615	2.544	9.3	20.1
2 11	7 5.37	+15 25.1	1.676	2.540	13.3	20.3
2 21	7 0.60	+15 37.9	1.759	2.536	16.6	20.5

110366 2001 SX_{325} 1 12.6 349°.47 8°.4/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.46	+ 0 47.4	1.562	2.371	16.8	19.2
12 23	7 49.56	+ 0 24.2	1.491	2.367	13.7	19.0
1 2	7 42.37	+ 0 25.6	1.441	2.363	10.6	18.8
1 12	7 33.80	+ 0 53.5	1.415	2.360	8.6	18.7
1 22	7 25.00	+ 1 46.3	1.415	2.357	8.9	18.7
2 1	7 17.21	+ 2 59.2	1.440	2.356	11.3	18.9
2 11	7 11.54	+ 4 24.8	1.488	2.354	14.5	19.0
2 21	7 8.61	+ 5 55.4	1.558	2.354	17.6	19.2

243476 2009 SZ_{289} 1 12.6 89°.55 2°.0/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.98	+14 43.2	1.927	2.767	12.8	20.7
12 23	7 50.94	+14 56.0	1.863	2.776	9.2	20.5
1 2	7 42.93	+15 18.4	1.823	2.784	5.4	20.3
1 12	7 33.83	+15 47.9	1.812	2.792	2.1	20.1
1 22	7 24.65	+16 21.6	1.831	2.801	4.2	20.2
2 1	7 16.48	+16 56.5	1.878	2.809	8.0	20.5
2 11	7 10.20	+17 29.9	1.951	2.817	11.6	20.7
2 21	7 6.36	+18 0.2	2.046	2.825	14.6	20.9

368829 2006 CT_{22} 1 12.6 39°.37 5°.4/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.44	+36 12.0	1.903	2.749	12.6	21.0
12 23	7 55.05	+36 40.0	1.842	2.752	9.5	20.9
1 2	7 45.18	+36 58.0	1.806	2.756	6.6	20.7
1 12	7 33.95	+37 0.5	1.798	2.759	5.4	20.6
1 22	7 22.76	+36 44.6	1.818	2.763	7.0	20.7
2 1	7 13.00	+36 11.0	1.865	2.766	10.1	20.9
2 11	7 5.73	+35 23.5	1.937	2.770	13.1	21.1
2 21	7 1.52	+34 26.9	2.030	2.774	15.8	21.3

214313 2005 JT_{33} 1 12.6 132°.05 1°.9/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.25	+26 12.7	2.350	3.192	10.7	21.4
12 23	7 53.69	+26 49.4	2.293	3.210	7.5	21.2
1 2	7 44.29	+27 25.0	2.263	3.227	4.1	21.0
1 12	7 33.91	+27 55.6	2.264	3.243	1.9	20.9
1 22	7 23.54	+28 18.1	2.296	3.259	4.2	21.0
2 1	7 14.19	+28 31.2	2.358	3.274	7.5	21.3
2 11	7 6.70	+28 35.4	2.448	3.288	10.4	21.5
2 21	7 1.54	+28 32.2	2.560	3.302	12.9	21.7

188225 2002 TY_{184} 1 12.6 142°.40 1°.8/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 3.13	+16 19.1	1.678	2.518	14.3	21.2
12 23	7 55.45	+16 22.9	1.616	2.530	10.3	21.0
1 2	7 45.38	+16 35.1	1.579	2.541	5.8	20.8
1 12	7 33.98	+16 53.1	1.571	2.552	1.9	20.5
1 22	7 22.56	+17 13.9	1.591	2.561	4.7	20.8
2 1	7 12.45	+17 35.0	1.641	2.570	9.1	21.0
2 11	7 4.72	+17 54.6	1.716	2.578	13.1	21.3
2 21	6 59.94	+18 11.5	1.812	2.585	16.4	21.5

114946 2003 QQ_{54} 1 12.6 90°.41 1°.4/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.11	+23 23.1	1.609	2.463	14.1	20.5
12 23	7 54.81	+24 2.0	1.559	2.483	9.9	20.3
1 2	7 45.04	+24 43.1	1.535	2.502	5.2	20.1
1 12	7 33.95	+25 20.8	1.539	2.521	1.4	19.8
1 22	7 22.95	+25 50.8	1.571	2.539	5.0	20.1
2 1	7 13.41	+26 10.8	1.631	2.558	9.4	20.4
2 11	7 6.41	+26 20.9	1.716	2.576	13.2	20.7
2 21	7 2.47	+26 22.7	1.822	2.593	16.4	21.0

316468 2010 UH_{98} 1 12.6 133°.54 1°.0/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.20	+17 13.4	1.798	2.645	13.2	21.2
12 23	7 51.99	+17 40.1	1.730	2.649	9.4	20.9
1 2	7 43.58	+18 15.3	1.687	2.652	5.2	20.7
1 12	7 33.87	+18 55.5	1.672	2.655	1.1	20.4
1 22	7 24.02	+19 36.7	1.686	2.658	4.3	20.6
2 1	7 15.23	+20 15.6	1.729	2.660	8.6	20.9
2 11	7 8.52	+20 49.7	1.797	2.663	12.4	21.1
2 21	7 4.48	+21 18.1	1.887	2.665	15.6	21.4

57550 2001 TQ_{28} 1 12.6 56°.53 2°.8/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.05	+28 21.9	1.685	2.542	13.4	18.8
12 23	7 54.13	+28 41.8	1.626	2.549	9.6	18.6
1 2	7 44.72	+28 58.5	1.592	2.557	5.5	18.4
1 12	7 33.94	+29 7.0	1.586	2.564	2.8	18.2
1 22	7 23.18	+29 4.5	1.608	2.572	5.5	18.4
2 1	7 13.84	+28 50.5	1.657	2.580	9.6	18.7
2 11	7 6.99	+28 26.9	1.731	2.588	13.3	18.9
2 21	7 3.19	+27 56.6	1.826	2.596	16.4	19.2

366904 2005 UZ_{46} 1 12.6 89°.36 2°.8/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.30	+27 7.9	1.852	2.707	12.5	21.0
12 23	7 52.83	+27 56.4	1.790	2.713	8.9	20.8
1 2	7 44.03	+28 44.3	1.753	2.718	5.1	20.6
1 12	7 33.90	+29 26.0	1.745	2.723	2.8	20.5
1 22	7 23.66	+29 56.9	1.766	2.728	5.4	20.7
2 1	7 14.58	+30 15.1	1.815	2.733	9.2	20.9
2 11	7 7.72	+30 21.0	1.889	2.738	12.7	21.1
2 21	7 3.67	+30 16.6	1.983	2.744	15.6	21.3

57674 2001 UD_{35} 1 12.6 24°.82 6°.1/ 9.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.53	+36 17.0	2.017	2.865	11.9	18.4
12 23	7 52.42	+37 44.9	1.962	2.870	9.1	18.3
1 2	7 43.88	+39 5.3	1.933	2.876	6.8	18.1
1 12	7 33.90	+40 10.6	1.932	2.882	6.2	18.1
1 22	7 23.71	+40 55.7	1.959	2.888	7.8	18.2
2 1	7 14.65	+41 18.7	2.012	2.894	10.4	18.4
2 11	7 7.84	+41 21.6	2.090	2.901	13.1	18.6
2 21	7 3.94	+41 8.5	2.187	2.908	15.4	18.8

400417 2008 CJ_{73} 1 12.6 46°.60 0°.0/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.32	+17 17.7	1.416	2.275	15.4	20.1
12 23	7 52.46	+18 36.9	1.364	2.289	10.9	19.9
1 2	7 43.95	+20 8.4	1.336	2.303	5.8	19.6
1 12	7 33.91	+21 44.3	1.335	2.318	0.3	19.2
1 22	7 23.77	+23 16.3	1.361	2.333	5.0	19.6
2 1	7 15.01	+24 37.5	1.416	2.349	10.0	20.0
2 11	7 8.82	+25 44.3	1.494	2.364	14.2	20.2
2 21	7 5.83	+26 36.2	1.593	2.381	17.7	20.5

444171 2005 KC_{1} 1 12.6 176°.28 2°.6/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.97	+13 31.3	1.742	2.576	14.2	22.4
12 23	7 54.70	+13 44.2	1.670	2.579	10.4	22.1
1 2	7 45.05	+14 8.8	1.623	2.582	6.2	21.9
1 12	7 33.99	+14 42.6	1.605	2.583	2.7	21.7
1 22	7 22.74	+15 22.2	1.615	2.584	4.9	21.8
2 1	7 12.61	+16 3.8	1.655	2.584	9.1	22.1
2 11	7 4.70	+16 44.3	1.720	2.582	13.1	22.3
2 21	6 59.64	+17 21.6	1.807	2.580	16.4	22.5

141215 2001 XO_{219} 1 12.6 183°.47 3°.5/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.65	+33 9.1	2.848	3.688	9.1	20.4
12 23	7 51.14	+33 51.5	2.778	3.688	6.7	20.3
1 2	7 42.98	+34 29.2	2.735	3.688	4.4	20.1
1 12	7 33.86	+34 58.5	2.723	3.687	3.5	20.0
1 22	7 24.63	+35 16.6	2.741	3.686	4.9	20.1
2 1	7 16.16	+35 22.5	2.788	3.685	7.3	20.3
2 11	7 9.24	+35 17.1	2.863	3.684	9.7	20.4
2 21	7 4.35	+35 2.5	2.960	3.682	11.7	20.6

369659 2011 FA_{131} 1 12.6 77°.61 0°.3/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 57.60	+20 1.0	1.963	2.812	12.2	21.1
12 23	7 51.38	+20 13.5	1.900	2.820	8.6	20.9
1 2	7 43.17	+20 30.5	1.862	2.828	4.6	20.7
1 12	7 33.87	+20 49.1	1.853	2.836	0.4	20.4
1 22	7 24.53	+21 6.7	1.873	2.844	4.0	20.7
2 1	7 16.23	+21 21.3	1.922	2.852	8.0	21.0
2 11	7 9.88	+21 31.9	1.997	2.860	11.5	21.2
2 21	7 5.99	+21 38.4	2.094	2.869	14.4	21.4

465198 2007 HM_{57} 1 12.6 343°.77 7°.6/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.89	+ 2 23.5	1.749	2.557	15.3	21.0
12 23	7 49.68	+ 1 44.2	1.676	2.553	12.4	20.8
1 2	7 42.38	+ 1 24.6	1.626	2.549	9.5	20.6
1 12	7 33.84	+ 1 26.8	1.601	2.546	7.7	20.5
1 22	7 25.11	+ 1 50.3	1.601	2.542	8.2	20.5
2 1	7 17.31	+ 2 32.1	1.628	2.540	10.6	20.7
2 11	7 11.42	+ 3 27.1	1.680	2.537	13.6	20.8
2 21	7 8.05	+ 4 29.3	1.752	2.536	16.4	21.0

124878 2001 TC_{38} 1 12.6 336°.86 1°.8/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.57	+25 50.2	1.190	2.064	16.6	18.4
12 23	7 54.70	+25 46.2	1.122	2.054	11.9	18.1
1 2	7 45.41	+25 40.7	1.075	2.044	6.5	17.8
1 12	7 34.03	+25 29.0	1.053	2.035	1.8	17.5
1 22	7 22.39	+25 8.1	1.056	2.027	6.2	17.7
2 1	7 12.46	+24 37.9	1.084	2.020	11.9	18.0
2 11	7 5.77	+24 1.0	1.133	2.014	16.9	18.3
2 21	7 3.04	+23 20.4	1.201	2.009	21.1	18.5

109451 2001 QF_{207} 1 12.6 99°.49 0°.5/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.88	+22 10.8	2.408	3.253	10.4	20.2
12 23	7 50.57	+22 32.0	2.349	3.268	7.3	20.1
1 2	7 42.64	+22 55.1	2.318	3.284	3.8	19.9
1 12	7 33.85	+23 17.5	2.316	3.299	0.5	19.6
1 22	7 25.07	+23 36.7	2.344	3.314	3.5	19.9
2 1	7 17.18	+23 51.1	2.403	3.329	6.8	20.1
2 11	7 10.92	+24 0.3	2.489	3.343	9.8	20.3
2 21	7 6.73	+24 4.6	2.598	3.357	12.3	20.5

227808 2007 BK_{21} 1 12.6 13°.94 2°.2/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.61	+24 17.5	1.025	1.907	18.0	20.4
12 23	7 54.19	+24 50.7	0.974	1.909	12.8	20.1
1 2	7 45.15	+25 27.4	0.943	1.912	6.9	19.8
1 12	7 34.01	+25 59.9	0.935	1.917	2.2	19.5
1 22	7 22.77	+26 22.0	0.951	1.922	6.8	19.8
2 1	7 13.52	+26 30.8	0.991	1.929	12.6	20.2
2 11	7 7.79	+26 27.2	1.051	1.936	17.6	20.5
2 21	7 6.21	+26 13.8	1.129	1.944	21.8	20.8

402057 2003 SX_{348} 1 12.6 174°.68 0°.7/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.33	+22 30.7	1.968	2.814	12.3	22.4
12 23	7 54.11	+22 54.8	1.897	2.817	8.7	22.1
1 2	7 44.68	+23 21.5	1.853	2.819	4.6	21.9
1 12	7 33.98	+23 47.0	1.837	2.820	0.7	21.6
1 22	7 23.16	+24 7.7	1.852	2.821	4.3	21.9
2 1	7 13.41	+24 21.9	1.896	2.822	8.4	22.1
2 11	7 5.74	+24 29.1	1.967	2.821	12.0	22.3
2 21	7 0.74	+24 30.3	2.059	2.820	15.0	22.6

330900 2009 SS_{43} 1 12.6 232°.40 0°.7/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.74	+23 6.5	1.939	2.790	12.2	21.5
12 23	7 52.32	+23 19.5	1.867	2.789	8.6	21.3
1 2	7 43.76	+23 34.4	1.821	2.787	4.6	21.0
1 12	7 33.96	+23 47.8	1.803	2.786	0.8	20.7
1 22	7 24.04	+23 56.9	1.815	2.785	4.3	21.0
2 1	7 15.17	+24 0.4	1.856	2.784	8.4	21.2
2 11	7 8.34	+23 58.1	1.922	2.782	12.0	21.5
2 21	7 4.11	+23 50.8	2.010	2.781	15.1	21.7

460196 2014 QR_{137} 1 12.6 60°.26 5°.2/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.89	+ 6 48.4	1.684	2.508	15.1	21.6
12 23	7 51.17	+ 6 53.4	1.613	2.508	11.6	21.3
1 2	7 43.22	+ 7 17.1	1.566	2.509	8.0	21.1
1 12	7 33.94	+ 7 58.8	1.544	2.510	5.4	21.0
1 22	7 24.47	+ 8 55.2	1.551	2.511	6.3	21.0
2 1	7 16.03	+10 1.5	1.585	2.512	9.6	21.2
2 11	7 9.64	+11 12.0	1.644	2.513	13.2	21.5
2 21	7 5.94	+12 21.6	1.725	2.514	16.5	21.7

165896 2001 SZ_{223} 1 12.6 19°.99 4°.6/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.58	+33 57.3	2.089	2.938	11.5	19.8
12 23	7 52.25	+34 43.1	2.027	2.941	8.6	19.7
1 2	7 43.73	+35 22.4	1.991	2.943	5.8	19.5
1 12	7 33.97	+35 49.9	1.982	2.946	4.6	19.4
1 22	7 24.11	+36 2.1	2.003	2.949	6.4	19.5
2 1	7 15.38	+35 58.2	2.051	2.952	9.3	19.7
2 11	7 8.76	+35 40.0	2.123	2.956	12.2	19.9
2 21	7 4.82	+35 11.0	2.217	2.959	14.7	20.1

124387 2001 QB_{178} 1 12.6 65°.85 4°.1/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 3.79	+27 19.9	1.276	2.142	16.3	18.9
12 23	7 56.56	+28 40.7	1.238	2.165	11.5	18.6
1 2	7 46.18	+29 59.8	1.223	2.187	6.7	18.4
1 12	7 34.11	+31 7.4	1.234	2.210	4.1	18.4
1 22	7 22.18	+31 56.1	1.272	2.233	7.2	18.6
2 1	7 12.17	+32 23.6	1.336	2.255	11.7	18.9
2 11	7 5.39	+32 32.1	1.422	2.278	15.7	19.2
2 21	7 2.36	+32 26.0	1.527	2.300	18.9	19.5

299604 2006 HL_{74} 1 12.6 42°.01 3°.0/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.15	+25 8.0	1.308	2.177	15.8	19.7
12 23	7 54.06	+26 15.0	1.257	2.187	11.1	19.5
1 2	7 44.93	+27 24.7	1.229	2.197	6.2	19.2
1 12	7 34.05	+28 28.2	1.228	2.208	3.0	19.1
1 22	7 23.09	+29 18.6	1.253	2.219	6.5	19.3
2 1	7 13.77	+29 52.0	1.304	2.230	11.3	19.6
2 11	7 7.43	+30 8.9	1.377	2.242	15.5	19.9
2 21	7 4.68	+30 11.9	1.469	2.255	19.0	20.2

16371 1981 DQ_{3} 1 12.6 265°.05 2°.9/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.78	+29 43.9	1.972	2.821	12.1	18.2
12 23	7 54.64	+29 57.1	1.889	2.807	8.8	17.9
1 2	7 45.09	+30 6.1	1.831	2.793	5.2	17.7
1 12	7 34.07	+30 6.3	1.802	2.778	2.9	17.5
1 22	7 22.83	+29 54.9	1.802	2.764	5.4	17.6
2 1	7 12.69	+29 31.7	1.831	2.749	9.1	17.8
2 11	7 4.77	+28 58.5	1.886	2.734	12.7	18.0
2 21	6 59.71	+28 18.6	1.962	2.719	15.8	18.2

323149 2003 EC_{40} 1 12.6 256°.29 2°.3/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.36	+25 34.3	2.198	3.045	11.1	20.8
12 23	7 52.90	+26 37.4	2.106	3.025	8.0	20.6
1 2	7 44.21	+27 43.3	2.041	3.005	4.5	20.3
1 12	7 34.04	+28 46.5	2.006	2.984	2.3	20.1
1 22	7 23.41	+29 41.9	2.001	2.963	4.9	20.3
2 1	7 13.49	+30 25.8	2.026	2.941	8.6	20.5
2 11	7 5.37	+30 57.1	2.078	2.919	12.0	20.6
2 21	6 59.78	+31 16.7	2.151	2.896	15.0	20.8

335586 2006 DF_{61} 1 12.6 192°.38 2°.6/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.07	+29 2.0	2.300	3.147	10.7	21.5
12 23	7 52.38	+29 28.3	2.228	3.146	7.7	21.3
1 2	7 43.75	+29 51.8	2.183	3.145	4.5	21.1
1 12	7 34.01	+30 8.6	2.167	3.144	2.6	20.9
1 22	7 24.17	+30 16.0	2.182	3.142	4.7	21.1
2 1	7 15.27	+30 12.9	2.225	3.140	7.9	21.3
2 11	7 8.22	+30 0.5	2.295	3.138	11.0	21.5
2 21	7 3.56	+29 40.5	2.388	3.136	13.6	21.7

498864 2008 YJ_{54} 1 12.6 283°.41 3°.2/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.18	+32 12.1	2.308	3.152	10.8	21.2
12 23	7 53.17	+32 19.0	2.231	3.145	7.9	21.0
1 2	7 44.16	+32 19.8	2.180	3.138	4.9	20.8
1 12	7 34.03	+32 10.8	2.159	3.131	3.3	20.7
1 22	7 23.84	+31 50.4	2.168	3.125	5.1	20.8
2 1	7 14.68	+31 18.6	2.206	3.118	8.1	21.0
2 11	7 7.45	+30 37.8	2.270	3.111	11.2	21.1
2 21	7 2.70	+29 50.8	2.358	3.105	13.8	21.3

27432 2000 FO_{27} 1 12.6 98°.64 1°.9/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.73	+15 13.5	1.906	2.744	13.0	19.2
12 23	7 52.80	+15 22.1	1.853	2.764	9.4	19.0
1 2	7 43.92	+15 39.2	1.824	2.785	5.4	18.8
1 12	7 34.02	+16 2.5	1.825	2.805	2.0	18.6
1 22	7 24.18	+16 29.2	1.855	2.825	4.2	18.8
2 1	7 15.48	+16 56.6	1.914	2.844	8.0	19.0
2 11	7 8.80	+17 22.7	2.000	2.863	11.5	19.3
2 21	7 4.61	+17 46.0	2.108	2.881	14.4	19.5

15600 2000 GY_{103} 1 12.6 136°.60 4°.0/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.79	+ 7 50.3	2.415	3.227	11.4	18.4
12 23	7 49.14	+ 7 45.1	2.343	3.233	8.8	18.2
1 2	7 41.95	+ 7 51.9	2.297	3.238	6.0	18.0
1 12	7 33.90	+ 8 10.3	2.279	3.243	4.1	17.9
1 22	7 25.77	+ 8 38.5	2.291	3.248	4.8	18.0
2 1	7 18.37	+ 9 14.2	2.332	3.252	7.3	18.1
2 11	7 12.42	+ 9 54.4	2.400	3.257	10.0	18.3
2 21	7 8.37	+10 36.2	2.492	3.261	12.5	18.5

90443 2004 BS_{90} 1 12.6 224°.53 1°.5/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.85	+15 17.2	2.540	3.373	10.3	20.2
12 23	7 49.23	+15 31.3	2.457	3.367	7.4	20.0
1 2	7 42.03	+15 52.5	2.402	3.362	4.3	19.8
1 12	7 33.91	+16 19.0	2.376	3.356	1.6	19.6
1 22	7 25.64	+16 48.7	2.380	3.350	3.4	19.7
2 1	7 18.02	+17 19.3	2.415	3.343	6.6	19.9
2 11	7 11.80	+17 48.9	2.477	3.337	9.7	20.1
2 21	7 7.48	+18 16.1	2.563	3.330	12.3	20.3

203863 2002 WV_{11} 1 12.6 81°.78 0°.7/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 58.43	+20 49.3	2.363	3.203	10.7	20.1
12 23	7 51.67	+21 50.5	2.317	3.234	7.4	19.9
1 2	7 43.26	+22 55.0	2.299	3.264	3.9	19.7
1 12	7 33.98	+23 58.4	2.311	3.294	0.7	19.5
1 22	7 24.74	+24 56.5	2.356	3.324	3.6	19.8
2 1	7 16.43	+25 46.6	2.431	3.353	7.0	20.1
2 11	7 9.81	+26 27.4	2.533	3.381	9.9	20.3
2 21	7 5.32	+26 59.2	2.659	3.409	12.3	20.5

19416 Benglass 1 12.6 310°.63 4°.3/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.91	+11 17.1	1.484	2.327	15.7	18.3
12 23	7 52.21	+11 3.9	1.410	2.320	11.8	18.1
1 2	7 43.92	+11 5.6	1.359	2.314	7.6	17.8
1 12	7 34.03	+11 21.6	1.334	2.307	4.4	17.6
1 22	7 23.87	+11 49.8	1.335	2.301	6.1	17.7
2 1	7 14.86	+12 26.5	1.363	2.295	10.3	17.9
2 11	7 8.21	+13 7.5	1.415	2.290	14.6	18.2
2 21	7 4.63	+13 48.9	1.486	2.284	18.2	18.4

455801 2005 SV_{47} 1 12.6 90°.00 2°.4/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.60	+27 18.2	1.825	2.679	12.7	21.6
12 23	7 53.73	+27 43.6	1.765	2.687	9.0	21.4
1 2	7 44.54	+28 7.3	1.729	2.694	5.1	21.2
1 12	7 34.07	+28 24.4	1.722	2.702	2.4	21.0
1 22	7 23.58	+28 31.8	1.744	2.709	5.1	21.2
2 1	7 14.36	+28 28.5	1.794	2.716	9.0	21.4
2 11	7 7.42	+28 15.8	1.870	2.724	12.6	21.7
2 21	7 3.34	+27 55.9	1.966	2.731	15.5	21.9

37006 2000 TS_{37} 1 12.6 181°.12 0°.8/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.74	+17 11.0	2.046	2.883	12.3	19.5
12 23	7 53.68	+17 47.4	1.971	2.884	8.8	19.3
1 2	7 44.51	+18 31.8	1.922	2.885	4.8	19.0
1 12	7 34.09	+19 20.5	1.903	2.885	0.9	18.7
1 22	7 23.46	+20 9.3	1.914	2.885	4.0	19.0
2 1	7 13.75	+20 54.8	1.956	2.883	8.0	19.2
2 11	7 5.95	+21 34.8	2.024	2.881	11.7	19.4
2 21	7 0.67	+22 8.3	2.116	2.877	14.7	19.6

262832 2007 BP 1 12.6 32°.05 0°.7/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.83	+17 6.0	1.343	2.206	15.8	19.8
12 23	7 51.48	+17 55.8	1.294	2.220	11.2	19.6
1 2	7 43.49	+18 57.3	1.268	2.235	6.0	19.3
1 12	7 34.03	+20 4.5	1.267	2.250	0.8	19.0
1 22	7 24.56	+21 10.7	1.294	2.267	5.0	19.4
2 1	7 16.53	+22 10.4	1.347	2.284	10.0	19.7
2 11	7 11.10	+23 0.2	1.424	2.302	14.3	20.0
2 21	7 8.84	+23 39.0	1.520	2.321	17.8	20.3

413598 2005 UY_{122} 1 12.6 240°.38 5°.9/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.93	+ 5 5.9	2.083	2.888	13.3	21.4
12 23	7 50.94	+ 4 33.0	1.999	2.879	10.5	21.2
1 2	7 43.05	+ 4 14.8	1.940	2.870	7.7	21.0
1 12	7 34.01	+ 4 12.4	1.908	2.861	6.0	20.9
1 22	7 24.75	+ 4 25.4	1.904	2.851	6.6	20.9
2 1	7 16.26	+ 4 52.0	1.929	2.841	9.1	21.0
2 11	7 9.44	+ 5 28.5	1.979	2.831	12.1	21.2
2 21	7 4.89	+ 6 11.1	2.051	2.820	14.9	21.3

487298 2014 QL_{56} 1 12.7 167°.15 1°.7/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.54	+15 58.2	2.138	2.970	12.0	22.5
12 23	7 53.37	+16 1.1	2.066	2.976	8.7	22.3
1 2	7 44.28	+16 11.0	2.021	2.981	4.9	22.1
1 12	7 34.09	+16 25.9	2.005	2.985	1.8	21.9
1 22	7 23.82	+16 43.7	2.019	2.989	4.0	22.1
2 1	7 14.49	+17 2.2	2.064	2.991	7.7	22.3
2 11	7 7.00	+17 20.0	2.136	2.993	11.1	22.5
2 21	7 1.87	+17 36.0	2.231	2.994	14.0	22.7

183349 2002 VZ_{109} 1 12.7 26°.44 3°.9/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.33	+27 13.3	1.132	2.011	16.9	18.5
12 23	7 52.95	+28 13.4	1.094	2.027	12.0	18.3
1 2	7 44.37	+29 12.3	1.078	2.045	6.8	18.0
1 12	7 34.10	+30 0.9	1.087	2.065	3.9	17.9
1 22	7 23.97	+30 32.9	1.120	2.085	7.2	18.2
2 1	7 15.79	+30 46.3	1.178	2.107	11.9	18.5
2 11	7 10.82	+30 43.1	1.257	2.130	16.2	18.8
2 21	7 9.56	+30 27.1	1.354	2.153	19.6	19.1

319645 2006 SN_{403} 1 12.7 170°.15 7°.2/ 9.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.92	+40 11.4	2.004	2.838	12.6	21.1
12 23	7 57.11	+41 28.5	1.945	2.841	10.0	21.0
1 2	7 46.51	+42 34.1	1.912	2.843	7.8	20.8
1 12	7 34.24	+43 20.1	1.907	2.845	7.3	20.8
1 22	7 21.78	+43 41.7	1.929	2.846	8.8	20.9
2 1	7 10.68	+43 38.3	1.978	2.847	11.2	21.0
2 11	7 2.20	+43 13.7	2.051	2.848	13.8	21.2
2 21	6 57.04	+42 33.6	2.143	2.848	16.1	21.4

376455 2012 HU_{66} 1 12.7 133°.83 3°.2/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 57.28	+11 25.6	2.339	3.161	11.4	21.4
12 23	7 50.89	+11 10.0	2.272	3.171	8.5	21.3
1 2	7 42.89	+11 3.5	2.231	3.181	5.5	21.1
1 12	7 34.02	+11 5.8	2.219	3.190	3.3	21.0
1 22	7 25.11	+11 15.5	2.237	3.199	4.4	21.1
2 1	7 17.05	+11 30.9	2.285	3.208	7.3	21.3
2 11	7 10.56	+11 50.0	2.360	3.216	10.2	21.5
2 21	7 6.11	+12 10.8	2.458	3.224	12.8	21.6

44690 1999 RK_{211} 1 12.7 214°.70 0°.3/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.98	+21 56.6	1.588	2.439	14.4	18.9
12 23	7 56.50	+22 2.4	1.512	2.434	10.3	18.6
1 2	7 46.22	+22 11.3	1.461	2.428	5.5	18.3
1 12	7 34.24	+22 19.5	1.437	2.421	0.4	17.9
1 22	7 22.00	+22 23.7	1.443	2.413	5.0	18.2
2 1	7 11.07	+22 22.5	1.476	2.405	9.9	18.5
2 11	7 2.73	+22 16.1	1.534	2.397	14.3	18.7
2 21	6 57.68	+22 5.7	1.612	2.388	18.0	19.0

70382 1999 RK_{214} 1 12.7 96°.46 2°.2/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.13	+25 3.5	1.662	2.517	13.7	19.3
12 23	7 54.92	+25 53.7	1.611	2.534	9.7	19.1
1 2	7 45.22	+26 44.6	1.585	2.551	5.3	18.9
1 12	7 34.17	+27 30.2	1.587	2.567	2.2	18.7
1 22	7 23.13	+28 5.6	1.618	2.584	5.3	18.9
2 1	7 13.50	+28 28.4	1.677	2.600	9.5	19.2
2 11	7 6.37	+28 39.2	1.761	2.615	13.2	19.5
2 21	7 2.28	+28 40.0	1.866	2.631	16.2	19.7

70400 1999 RG_{241} 1 12.7 229°.11 2°.8/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.81	+28 4.7	1.723	2.576	13.4	19.7
12 23	7 55.60	+28 30.5	1.649	2.570	9.6	19.5
1 2	7 45.71	+28 54.0	1.600	2.564	5.5	19.2
1 12	7 34.21	+29 9.7	1.579	2.557	2.8	19.0
1 22	7 22.50	+29 13.8	1.587	2.551	5.7	19.2
2 1	7 12.07	+29 5.3	1.623	2.543	9.9	19.4
2 11	7 4.14	+28 45.7	1.683	2.536	13.8	19.6
2 21	6 59.38	+28 18.3	1.764	2.529	17.1	19.9

73583 3092 $T\text{-}_{1}$ 1 12.7 280°.39 2°.2/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.29	+27 1.1	2.059	2.911	11.6	19.8
12 23	7 52.06	+27 29.9	1.985	2.906	8.2	19.6
1 2	7 43.70	+27 57.9	1.936	2.901	4.6	19.3
1 12	7 34.08	+28 20.7	1.917	2.896	2.2	19.2
1 22	7 24.30	+28 35.1	1.926	2.890	4.8	19.3
2 1	7 15.49	+28 39.6	1.964	2.885	8.4	19.5
2 11	7 8.66	+28 34.7	2.028	2.880	11.8	19.8
2 21	7 4.38	+28 22.0	2.114	2.875	14.7	19.9

369060 2008 DW_{70} 1 12.7 258°.78 0°.1/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.71	+22 29.4	2.014	2.858	12.1	21.2
12 23	7 54.53	+22 17.4	1.922	2.840	8.7	21.0
1 2	7 45.06	+22 6.0	1.855	2.821	4.7	20.7
1 12	7 34.18	+21 53.0	1.818	2.802	0.3	20.3
1 22	7 23.01	+21 36.8	1.812	2.782	4.2	20.6
2 1	7 12.78	+21 17.0	1.835	2.762	8.5	20.8
2 11	7 4.56	+20 54.3	1.884	2.742	12.3	21.0
2 21	6 59.02	+20 29.9	1.956	2.721	15.6	21.2

418738 2008 UK_{135} 1 12.7 359°.36 4°.4/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.15	+10 5.3	1.810	2.643	13.7	20.9
12 23	7 49.84	+ 9 41.9	1.739	2.642	10.4	20.7
1 2	7 42.52	+ 9 31.4	1.692	2.641	6.9	20.5
1 12	7 34.02	+ 9 33.9	1.671	2.641	4.5	20.3
1 22	7 25.39	+ 9 48.2	1.679	2.641	5.7	20.4
2 1	7 17.72	+10 11.9	1.714	2.641	9.0	20.6
2 11	7 11.94	+10 41.6	1.774	2.642	12.4	20.8
2 21	7 8.62	+11 13.9	1.855	2.644	15.5	21.0

155181 2005 UY_{315} 1 12.7 190°.92 0°.6/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.85	+18 42.1	1.890	2.738	12.6	20.3
12 23	7 51.76	+18 59.9	1.818	2.737	9.0	20.1
1 2	7 43.55	+19 24.0	1.772	2.737	4.9	19.8
1 12	7 34.09	+19 51.5	1.754	2.737	0.8	19.5
1 22	7 24.47	+20 19.1	1.766	2.737	4.1	19.8
2 1	7 15.86	+20 44.2	1.805	2.737	8.3	20.0
2 11	7 9.22	+21 5.2	1.871	2.736	12.0	20.3
2 21	7 5.17	+21 21.4	1.959	2.736	15.2	20.5

123226 2000 UD_{49} 1 12.7 126°.39 1°.0/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.57	+17 50.6	1.829	2.671	13.3	20.0
12 23	7 54.27	+18 5.7	1.770	2.686	9.4	19.8
1 2	7 44.81	+18 27.5	1.737	2.700	5.2	19.6
1 12	7 34.17	+18 52.9	1.732	2.714	1.1	19.3
1 22	7 23.53	+19 18.6	1.756	2.727	4.2	19.6
2 1	7 14.09	+19 42.1	1.810	2.740	8.4	19.9
2 11	7 6.81	+20 2.1	1.890	2.752	12.1	20.1
2 21	7 2.24	+20 17.9	1.992	2.763	15.2	20.3

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
218663 2005 SH_{206}			1 12.7 149°.33		5°.5/10.1 18	
	h m	° ′			°	m
12 13	8 3.80	+37 49.4	2.362	3.194	11.0	21.2
12 23	7 55.86	+38 52.1	2.306	3.204	8.4	21.0
1 2	7 45.68	+39 45.7	2.276	3.214	6.3	20.9
1 12	7 34.23	+40 24.1	2.276	3.223	5.6	20.9
1 22	7 22.70	+40 43.8	2.305	3.231	7.0	21.0
2 1	7 12.31	+40 44.2	2.362	3.239	9.3	21.1
2 11	7 4.08	+40 27.9	2.445	3.246	11.7	21.3
2 21	6 58.57	+39 59.1	2.549	3.253	13.9	21.5
21608 Gloyna			1 12.7 162°.45		2°.7/13.5 18	
12 13	8 0.87	+14 5.7	1.865	2.699	13.4	19.0
12 23	7 53.81	+13 58.8	1.796	2.704	9.8	18.8
1 2	7 44.60	+14 1.2	1.751	2.709	5.9	18.5
1 12	7 34.17	+14 11.6	1.735	2.713	2.8	18.4
1 22	7 23.64	+14 27.8	1.749	2.717	4.7	18.5
2 1	7 14.18	+14 47.6	1.792	2.720	8.6	18.7
2 11	7 6.78	+15 8.7	1.860	2.722	12.3	19.0
2 21	7 2.01	+15 29.4	1.951	2.724	15.4	19.2
171217 2005 JN_{87}			1 12.7 124°.13		3°.0/10.7 18	
12 13	7 58.24	+29 39.0	2.770	3.611	9.3	20.2
12 23	7 51.62	+30 51.3	2.712	3.625	6.7	20.1
1 2	7 43.34	+32 1.3	2.682	3.639	4.1	19.9
1 12	7 34.09	+33 4.4	2.684	3.653	3.0	19.9
1 22	7 24.71	+33 56.7	2.717	3.666	4.7	20.0
2 1	7 16.08	+34 36.3	2.780	3.679	7.2	20.2
2 11	7 8.97	+35 3.0	2.870	3.691	9.6	20.4
2 21	7 3.90	+35 18.5	2.984	3.703	11.7	20.5
166562 2002 RL_{104}			1 12.7 48°.91		7°.7/ 9.3 18	
12 13	8 2.52	+43 4.5	2.087	2.916	12.3	19.2
12 23	7 55.34	+44 13.0	2.035	2.922	10.0	19.0
1 2	7 45.53	+45 7.7	2.008	2.928	8.2	18.9
1 12	7 34.22	+45 41.5	2.008	2.934	7.8	18.9
1 22	7 22.85	+45 50.7	2.034	2.940	9.0	19.0
2 1	7 12.86	+45 35.5	2.087	2.946	11.1	19.1
2 11	7 5.43	+44 59.8	2.163	2.953	13.4	19.3
2 21	7 1.15	+44 9.4	2.258	2.960	15.5	19.5
282127 2001 MD_{18}			1 12.7 222°.01		2°.9/14.2 17	
12 13	8 1.51	+ 9 24.6	1.782	2.604	14.5	20.4
12 23	7 54.65	+10 33.8	1.694	2.595	10.8	20.2
1 2	7 45.28	+12 3.4	1.631	2.585	6.6	19.9
1 12	7 34.24	+13 49.2	1.597	2.574	3.1	19.7
1 22	7 22.69	+15 44.1	1.594	2.563	4.9	19.8
2 1	7 11.97	+17 40.0	1.621	2.551	9.2	20.0
2 11	7 3.31	+19 29.8	1.677	2.538	13.4	20.2
2 21	6 57.50	+21 9.0	1.755	2.524	17.0	20.4
466960 2016 AR_{180}			1 12.7 287°.67		2°.5/13.3 18	
12 13	7 58.56	+15 51.0	1.794	2.638	13.4	20.9
12 23	7 52.39	+15 29.8	1.713	2.628	9.8	20.6
1 2	7 43.96	+15 15.8	1.656	2.617	5.8	20.3
1 12	7 34.15	+15 8.3	1.627	2.606	2.5	20.1
1 22	7 24.11	+15 6.1	1.627	2.596	4.8	20.2
2 1	7 15.06	+15 7.8	1.655	2.585	8.9	20.5
2 11	7 8.06	+15 12.0	1.708	2.575	12.9	20.7
2 21	7 3.75	+15 17.4	1.782	2.565	16.2	20.9
484263 2007 HX_{53}			1 12.7 269°.44		2°.6/11.8 18	
12 13	8 1.72	+25 7.2	1.454	2.316	14.9	21.5
12 23	7 55.33	+25 57.7	1.378	2.304	10.7	21.2
1 2	7 45.82	+26 51.7	1.325	2.292	5.9	20.9
1 12	7 34.29	+27 41.9	1.300	2.280	2.6	20.6
1 22	7 22.29	+28 21.7	1.302	2.268	6.2	20.8
2 1	7 11.59	+28 47.2	1.330	2.256	11.2	21.1
2 11	7 3.66	+28 58.4	1.382	2.243	15.7	21.3
2 21	6 59.35	+28 57.5	1.452	2.231	19.5	21.5
242608 2005 JR_{89}			1 12.7 239°.93		3°.2/13.9 17	
12 13	7 55.54	+10 17.1	2.902	3.713	9.7	21.0
12 23	7 49.60	+ 9 57.0	2.806	3.698	7.4	20.8
1 2	7 42.25	+ 9 44.6	2.737	3.682	4.9	20.6
1 12	7 34.06	+ 9 40.0	2.698	3.665	3.2	20.5
1 22	7 25.68	+ 9 42.6	2.690	3.648	4.1	20.5
2 1	7 17.83	+ 9 51.3	2.712	3.630	6.5	20.7
2 11	7 11.18	+10 4.5	2.763	3.612	9.1	20.8
2 21	7 6.19	+10 20.7	2.837	3.594	11.4	20.9
247498 2002 OW_{25}			1 12.7 165°.88		3°.9/11.2 18	
12 13	8 1.42	+34 44.4	2.534	3.370	10.2	20.6
12 23	7 53.94	+35 7.4	2.467	3.374	7.6	20.4
1 2	7 44.58	+35 23.2	2.427	3.377	5.1	20.3
1 12	7 34.20	+35 27.9	2.417	3.380	3.9	20.2
1 22	7 23.81	+35 19.4	2.436	3.382	5.4	20.3
2 1	7 14.44	+34 57.7	2.486	3.385	8.0	20.5
2 11	7 6.95	+34 25.0	2.562	3.386	10.6	20.7
2 21	7 1.82	+33 44.3	2.660	3.388	12.8	20.8

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
253185 2002 XC_{22}			1 12.7 335°.70		5°.6/10.8 18	
	h m	° ′			°	m
12 13	7 59.73	+32 18.0	1.430	2.296	14.8	19.7
12 23	7 54.01	+33 16.8	1.362	2.286	11.0	19.5
1 2	7 45.12	+34 10.7	1.318	2.277	7.2	19.2
1 12	7 34.24	+34 50.9	1.299	2.268	5.6	19.1
1 22	7 23.04	+35 11.2	1.306	2.260	8.1	19.2
2 1	7 13.32	+35 9.5	1.339	2.253	12.1	19.4
2 11	7 6.55	+34 48.5	1.393	2.246	16.1	19.6
2 21	7 3.49	+34 13.1	1.466	2.241	19.5	19.9
160854 2001 DV_{25}			1 12.7 40°.63		7°.3/11.8 17	
12 13	8 7.89	+36 46.0	1.108	1.974	18.2	18.3
12 23	7 59.65	+37 13.7	1.080	2.000	13.6	18.2
1 2	7 47.81	+37 24.5	1.074	2.027	9.3	18.0
1 12	7 34.38	+37 10.6	1.091	2.056	7.3	18.0
1 22	7 21.70	+36 30.4	1.133	2.085	9.3	18.2
2 1	7 11.75	+35 28.8	1.199	2.114	13.1	18.5
2 11	7 5.69	+34 13.9	1.287	2.145	16.9	18.8
2 21	7 3.78	+32 53.6	1.393	2.175	20.0	19.1
382730 2003 AG_{33}			1 12.7 354°.60		2°.5/12.5 18	
12 13	8 4.94	+31 13.6	1.766	2.615	13.3	19.1
12 23	7 56.83	+30 27.2	1.693	2.611	9.6	18.9
1 2	7 46.21	+29 30.8	1.644	2.607	5.5	18.6
1 12	7 34.30	+28 22.3	1.625	2.604	2.5	18.4
1 22	7 22.52	+27 2.8	1.635	2.602	5.1	18.6
2 1	7 12.28	+25 35.7	1.675	2.601	9.3	18.8
2 11	7 4.63	+24 6.1	1.742	2.600	13.1	19.0
2 21	7 0.07	+22 38.6	1.830	2.601	16.3	19.3
54696 2001 FO_{69}			1 12.7 187°.64		1°.5/13.3 18	
12 13	8 1.84	+15 46.2	1.795	2.633	13.7	19.9
12 23	7 54.71	+16 11.9	1.720	2.633	9.9	19.6
1 2	7 45.21	+16 47.6	1.670	2.632	5.6	19.4
1 12	7 34.26	+17 29.9	1.648	2.630	1.6	19.1
1 22	7 23.06	+18 14.7	1.657	2.628	4.5	19.3
2 1	7 12.93	+18 58.3	1.695	2.624	8.9	19.5
2 11	7 4.95	+19 37.8	1.759	2.620	12.9	19.8
2 21	6 59.79	+20 12.0	1.844	2.615	16.2	20.0
256314 2006 WE_{193}			1 12.7 33°.81		0°.4/12.5 18	
12 13	7 58.72	+21 9.2	1.741	2.594	13.2	20.4
12 23	7 52.57	+21 38.4	1.672	2.595	9.4	20.2
1 2	7 44.06	+22 12.6	1.629	2.596	5.0	19.9
1 12	7 34.18	+22 47.6	1.613	2.596	0.5	19.6
1 22	7 24.13	+23 19.2	1.626	2.597	4.5	19.9
2 1	7 15.20	+23 44.7	1.667	2.597	8.9	20.2
2 11	7 8.46	+24 2.9	1.733	2.598	12.9	20.4
2 21	7 4.55	+24 14.0	1.821	2.599	16.1	20.6
314337 2005 TT_{49}			1 12.7 187°.04		3°.3/11.5 18	
12 13	8 2.92	+31 52.1	2.426	3.264	10.5	21.3
12 23	7 55.08	+32 15.2	2.352	3.263	7.7	21.1
1 2	7 45.23	+32 32.8	2.306	3.262	4.8	20.9
1 12	7 34.26	+32 41.0	2.290	3.260	3.3	20.8
1 22	7 23.21	+32 37.3	2.304	3.258	5.1	20.9
2 1	7 13.18	+32 21.4	2.349	3.255	8.0	21.1
2 11	7 5.06	+31 55.0	2.420	3.251	10.9	21.3
2 21	6 59.41	+31 21.2	2.514	3.247	13.4	21.4
59571 1999 JY_{48}			1 12.7 134°.31		1°.0/12.3 18	
12 13	7 59.50	+23 36.2	2.286	3.130	10.9	19.8
12 23	7 52.60	+24 2.9	2.224	3.142	7.7	19.6
1 2	7 43.88	+24 30.7	2.189	3.154	4.1	19.4
1 12	7 34.17	+24 56.3	2.183	3.166	1.0	19.2
1 22	7 24.44	+25 16.7	2.209	3.176	3.8	19.4
2 1	7 15.66	+25 30.5	2.264	3.187	7.4	19.6
2 11	7 8.67	+25 37.4	2.346	3.197	10.5	19.8
2 21	7 3.96	+25 38.4	2.451	3.206	13.1	20.0
469053 2015 AH_{265}			1 12.7 85°.87		1°.4/13.3 18	
12 13	7 57.18	+15 55.4	1.904	2.747	12.8	20.3
12 23	7 51.24	+16 21.2	1.838	2.754	9.2	20.1
1 2	7 43.27	+16 56.0	1.798	2.761	5.1	19.9
1 12	7 34.14	+17 37.0	1.786	2.767	1.5	19.7
1 22	7 24.90	+18 20.3	1.803	2.774	4.1	19.9
2 1	7 16.65	+19 2.4	1.849	2.781	8.1	20.1
2 11	7 10.32	+19 40.9	1.921	2.787	11.7	20.4
2 21	7 6.47	+20 14.3	2.015	2.794	14.7	20.6
221250 2005 UY_{253}			1 12.7 93°.47		3°.9/11.3 18	
12 13	8 1.66	+31 8.1	1.905	2.756	12.4	20.3
12 23	7 54.49	+31 51.1	1.852	2.769	9.0	20.2
1 2	7 44.99	+32 29.0	1.824	2.782	5.6	20.0
1 12	7 34.25	+32 56.3	1.824	2.795	3.9	19.9
1 22	7 23.52	+33 9.2	1.854	2.808	6.0	20.1
2 1	7 14.11	+33 7.2	1.911	2.821	9.3	20.3
2 11	7 7.01	+32 52.2	1.993	2.834	12.5	20.5
2 21	7 2.78	+32 27.6	2.097	2.846	15.2	20.7

22936 Ricmccutchen 1 12.7 106°.22 0°.1/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 58.95	+21 38.9	2.062	2.908	11.8	19.0
12 23	7 52.34	+21 43.5	1.997	2.917	8.3	18.8
1 2	7 43.79	+21 50.4	1.959	2.925	4.4	18.6
1 12	7 34.19	+21 57.3	1.950	2.933	0.3	18.3
1 22	7 24.58	+22 1.8	1.971	2.942	3.9	18.6
2 1	7 16.01	+22 2.9	2.021	2.950	7.7	18.8
2 11	7 9.34	+22 0.4	2.097	2.957	11.1	19.1
2 21	7 5.09	+21 54.5	2.196	2.965	14.0	19.3

376983 2002 OD_{31} 1 12.7 95°.91 1°.0/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.44	+23 46.3	2.258	3.104	10.9	21.5
12 23	7 51.83	+24 9.4	2.202	3.122	7.6	21.3
1 2	7 43.47	+24 33.3	2.173	3.139	4.1	21.1
1 12	7 34.17	+24 54.9	2.174	3.156	1.0	20.9
1 22	7 24.91	+25 11.5	2.205	3.173	3.8	21.2
2 1	7 16.64	+25 21.8	2.265	3.190	7.3	21.4
2 11	7 10.15	+25 25.7	2.353	3.206	10.4	21.6
2 21	7 5.90	+25 24.1	2.463	3.222	12.9	21.9

398224 2010 OH_{125} 1 12.7 61°.99 7°.9/16.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.62	+ 0 26.4	1.600	2.399	16.9	20.3
12 23	7 52.19	+ 0 8.0	1.559	2.428	13.6	20.2
1 2	7 43.70	+ 0 14.1	1.539	2.458	10.3	20.0
1 12	7 34.19	+ 0 44.8	1.545	2.488	8.2	20.0
1 22	7 24.84	+ 1 37.0	1.577	2.517	8.3	20.1
2 1	7 16.78	+ 2 45.3	1.635	2.547	10.5	20.3
2 11	7 10.91	+ 4 2.4	1.719	2.576	13.3	20.5
2 21	7 7.67	+ 5 21.9	1.823	2.605	16.0	20.8

47074 1998 XV_{95} 1 12.7 26°.46 3°.4/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.43	+11 38.7	1.928	2.763	13.0	18.1
12 23	7 49.96	+11 33.8	1.860	2.767	9.7	17.9
1 2	7 42.59	+11 40.5	1.817	2.771	6.1	17.7
1 12	7 34.13	+11 57.8	1.801	2.775	3.5	17.5
1 22	7 25.59	+12 23.6	1.814	2.780	4.8	17.6
2 1	7 17.97	+12 55.1	1.855	2.785	8.2	17.8
2 11	7 12.16	+13 29.2	1.922	2.790	11.6	18.1
2 21	7 8.69	+14 3.1	2.011	2.796	14.6	18.3

4182 Mount Locke 1 12.7 180°.12 1°.9/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.99	+15 48.0	2.334	3.167	11.1	17.2
12 23	7 51.52	+15 38.8	2.258	3.168	8.0	17.0
1 2	7 43.34	+15 35.6	2.209	3.168	4.7	16.8
1 12	7 34.18	+15 37.4	2.189	3.168	1.9	16.6
1 22	7 24.94	+15 42.7	2.200	3.168	3.8	16.8
2 1	7 16.51	+15 50.1	2.240	3.168	7.2	17.0
2 11	7 9.68	+15 58.5	2.308	3.167	10.3	17.2
2 21	7 4.98	+16 6.7	2.399	3.165	13.0	17.4

194355 2001 US_{165} 1 12.7 132°.11 0°.6/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.94	+20 52.4	1.759	2.606	13.5	20.8
12 23	7 55.43	+21 36.5	1.701	2.620	9.5	20.6
1 2	7 45.55	+22 25.6	1.668	2.634	5.0	20.3
1 12	7 34.33	+23 14.4	1.665	2.648	0.6	20.0
1 22	7 23.06	+23 58.2	1.691	2.660	4.5	20.4
2 1	7 13.06	+24 33.7	1.746	2.672	8.9	20.6
2 11	7 5.38	+24 59.9	1.827	2.684	12.7	20.9
2 21	7 0.61	+25 17.6	1.929	2.694	15.8	21.1

292968 2006 VO_{134} 1 12.7 31°.60 1°.3/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.98	+23 14.4	1.277	2.148	16.0	20.2
12 23	7 53.14	+23 40.8	1.232	2.162	11.2	19.9
1 2	7 44.46	+24 10.3	1.209	2.178	5.9	19.7
1 12	7 34.27	+24 37.4	1.212	2.195	1.3	19.4
1 22	7 24.18	+24 57.5	1.241	2.212	5.5	19.7
2 1	7 15.79	+25 8.4	1.295	2.230	10.5	20.1
2 11	7 10.26	+25 10.3	1.373	2.249	14.8	20.4
2 21	7 8.10	+25 4.6	1.469	2.269	18.3	20.7

301680 2010 FS_{54} 1 12.7 288°.36 5°.0/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.69	+ 9 44.5	1.457	2.296	16.2	21.0
12 23	7 52.87	+ 9 29.9	1.383	2.289	12.3	20.7
1 2	7 44.40	+ 9 32.1	1.331	2.283	8.2	20.5
1 12	7 34.29	+ 9 51.2	1.305	2.276	5.1	20.3
1 22	7 23.86	+10 24.6	1.305	2.270	6.6	20.4
2 1	7 14.59	+11 8.5	1.332	2.263	10.6	20.6
2 11	7 7.72	+11 57.9	1.382	2.257	14.9	20.8
2 21	7 3.98	+12 48.2	1.453	2.251	18.6	21.0

206259 2002 XN_{83} 1 12.7 346°.01 3°.8/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.19	+14 26.3	2.020	2.850	12.7	19.2
12 23	7 53.92	+13 8.3	1.942	2.846	9.4	18.9
1 2	7 44.66	+11 54.6	1.890	2.843	6.0	18.7
1 12	7 34.30	+10 47.5	1.868	2.840	3.8	18.6
1 22	7 23.87	+ 9 48.7	1.877	2.837	5.4	18.7
2 1	7 14.46	+ 8 59.8	1.915	2.834	8.7	18.9
2 11	7 6.97	+ 8 20.7	1.980	2.832	12.0	19.1
2 21	7 1.94	+ 7 50.6	2.067	2.831	14.9	19.3

97534 2000 DX_{32} 1 12.7 250°.31 0°.3/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 57.21	+21 48.7	2.193	3.040	11.1	19.7
12 23	7 51.17	+22 3.4	2.116	3.036	7.9	19.5
1 2	7 43.24	+22 21.0	2.066	3.032	4.2	19.3
1 12	7 34.21	+22 38.5	2.044	3.027	0.4	18.9
1 22	7 25.02	+22 53.5	2.053	3.023	3.8	19.2
2 1	7 16.70	+23 4.3	2.090	3.018	7.5	19.4
2 11	7 10.11	+23 10.2	2.155	3.014	10.9	19.6
2 21	7 5.82	+23 11.5	2.242	3.009	13.8	19.8

248011 2004 EP_{69} 1 12.7 96°.33 2°.3/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.15	+26 46.7	1.821	2.672	12.9	20.0
12 23	7 54.80	+27 17.7	1.769	2.690	9.1	19.8
1 2	7 45.17	+27 47.0	1.743	2.707	5.0	19.6
1 12	7 34.33	+28 9.9	1.745	2.724	2.3	19.4
1 22	7 23.57	+28 23.0	1.776	2.741	5.0	19.7
2 1	7 14.15	+28 25.3	1.836	2.757	8.9	19.9
2 11	7 7.06	+28 17.9	1.921	2.773	12.4	20.2
2 21	7 2.82	+28 3.0	2.027	2.789	15.2	20.4

47321 1999 XS_{19} 1 12.7 56°.31 1°.4/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.40	+18 29.8	1.174	2.039	17.5	18.5
12 23	7 55.69	+18 26.1	1.125	2.051	12.5	18.3
1 2	7 45.87	+18 31.1	1.097	2.064	6.9	18.0
1 12	7 34.38	+18 41.5	1.094	2.077	1.5	17.7
1 22	7 22.97	+18 53.6	1.117	2.090	5.6	18.0
2 1	7 13.40	+19 4.9	1.166	2.104	11.1	18.3
2 11	7 6.95	+19 13.9	1.237	2.118	15.8	18.7
2 21	7 4.16	+19 19.9	1.327	2.132	19.7	18.9

339517 2005 GE_{136} 1 12.7 238°.91 7°.8/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.93	− 3 45.2	2.386	3.146	13.1	20.6
12 23	7 48.67	− 4 15.8	2.309	3.143	11.1	20.5
1 2	7 41.85	− 4 27.3	2.255	3.141	9.2	20.4
1 12	7 34.12	− 4 17.9	2.226	3.139	7.9	20.3
1 22	7 26.25	− 3 48.1	2.224	3.136	8.0	20.3
2 1	7 19.04	− 3 0.2	2.250	3.134	9.4	20.4
2 11	7 13.23	− 1 58.6	2.301	3.132	11.4	20.5
2 21	7 9.32	− 0 48.5	2.374	3.129	13.5	20.6

395346 2011 QS_{50} 1 12.7 156°.21 3°.8/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.46	+10 3.4	1.825	2.649	14.1	22.1
12 23	7 53.59	+10 8.7	1.757	2.657	10.6	21.9
1 2	7 44.57	+10 28.1	1.713	2.663	6.8	21.7
1 12	7 34.30	+11 0.1	1.697	2.669	4.0	21.5
1 22	7 23.91	+11 41.8	1.711	2.675	5.3	21.6
2 1	7 14.57	+12 29.3	1.753	2.679	8.8	21.9
2 11	7 7.27	+13 18.6	1.821	2.684	12.5	22.1
2 21	7 2.60	+14 6.7	1.912	2.687	15.6	22.3

381264 2007 TY_{189} 1 12.7 356°.20 4°.5/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.94	+33 33.8	1.967	2.817	12.1	20.5
12 23	7 53.38	+34 4.1	1.901	2.816	8.9	20.3
1 2	7 44.50	+34 27.5	1.860	2.815	5.9	20.2
1 12	7 34.30	+34 38.8	1.847	2.814	4.5	20.1
1 22	7 24.02	+34 35.0	1.862	2.814	6.3	20.2
2 1	7 14.95	+34 15.7	1.905	2.813	9.5	20.4
2 11	7 8.14	+33 43.5	1.973	2.814	12.6	20.6
2 21	7 4.15	+33 1.9	2.062	2.814	15.3	20.8

197436 2003 YU_{83} 1 12.7 105°.14 2°.1/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.82	+26 47.0	2.332	3.179	10.6	20.4
12 23	7 52.14	+27 26.7	2.277	3.195	7.5	20.2
1 2	7 43.68	+28 5.3	2.248	3.212	4.2	20.1
1 12	7 34.25	+28 38.8	2.250	3.228	2.1	19.9
1 22	7 24.81	+29 4.1	2.281	3.244	4.3	20.1
2 1	7 16.34	+29 19.7	2.343	3.260	7.5	20.4
2 11	7 9.65	+29 25.9	2.431	3.275	10.4	20.6
2 21	7 5.23	+29 24.1	2.541	3.290	12.8	20.8

170818 2004 EL_5 1 12.7 7°.81 0°.8/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.40	+22 59.2	2.224	3.073	10.9	20.4
12 23	7 50.57	+23 20.7	2.153	3.074	7.7	20.2
1 2	7 42.91	+23 44.3	2.107	3.074	4.1	19.9
1 12	7 34.20	+24 6.8	2.091	3.074	0.8	19.7
1 22	7 25.37	+24 25.6	2.105	3.074	3.8	19.9
2 1	7 17.42	+24 38.8	2.148	3.075	7.4	20.1
2 11	7 11.17	+24 46.0	2.217	3.075	10.7	20.3
2 21	7 7.17	+24 47.5	2.309	3.076	13.5	20.5

291473 2006 DF_{86} 1 12.7 140°.86 0°.2/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.72	+19 36.8	1.909	2.751	12.8	21.8
12 23	7 54.43	+20 2.3	1.846	2.763	9.0	21.5
1 2	7 44.99	+20 32.9	1.809	2.774	4.8	21.3
1 12	7 34.34	+21 5.0	1.802	2.785	0.4	21.0
1 22	7 23.63	+21 35.1	1.824	2.795	4.1	21.3
2 1	7 14.06	+22 0.5	1.876	2.804	8.3	21.6
2 11	7 6.60	+22 20.3	1.955	2.813	11.9	21.8
2 21	7 1.79	+22 34.5	2.055	2.821	14.9	22.0

454340 2014 LY_{12} 1 12.7 195°.60 0°.6/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 1.99	+21 39.8	1.841	2.688	13.0	22.2
12 23	7 54.88	+22 12.3	1.766	2.685	9.2	22.0
1 2	7 45.35	+22 49.1	1.717	2.683	4.9	21.7
1 12	7 34.37	+23 25.7	1.696	2.679	0.7	21.4
1 22	7 23.14	+23 57.9	1.706	2.675	4.5	21.7
2 1	7 13.00	+24 23.0	1.744	2.671	8.9	21.9
2 11	7 5.04	+24 40.2	1.808	2.665	12.8	22.2
2 21	6 59.94	+24 49.9	1.894	2.659	16.0	22.4

266855 2009 UD_{97} 1 12.7 210°.12 0°.3/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.49	+22 4.9	2.116	2.963	11.5	20.8
12 23	7 52.11	+22 16.6	2.041	2.961	8.1	20.6
1 2	7 43.76	+22 30.8	1.992	2.958	4.3	20.3
1 12	7 34.26	+22 44.6	1.972	2.956	0.4	20.0
1 22	7 24.62	+22 55.5	1.982	2.953	3.9	20.3
2 1	7 15.92	+23 1.9	2.022	2.950	7.8	20.5
2 11	7 9.05	+23 3.5	2.088	2.947	11.2	20.7
2 21	7 4.58	+23 0.8	2.176	2.943	14.2	20.9

320807 2008 EH_{166} 1 12.7 269°.87 0°.9/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.12	+22 28.3	1.895	2.746	12.5	21.3
12 23	7 52.93	+22 58.3	1.808	2.729	8.9	21.1
1 2	7 44.38	+23 32.4	1.746	2.712	4.8	20.8
1 12	7 34.31	+24 6.3	1.713	2.695	0.9	20.5
1 22	7 23.86	+24 36.0	1.708	2.678	4.5	20.7
2 1	7 14.31	+24 58.7	1.733	2.660	8.9	20.9
2 11	7 6.79	+25 13.4	1.783	2.643	12.8	21.1
2 21	7 2.03	+25 20.7	1.854	2.625	16.2	21.3

428114 2006 RS_{68} 1 12.7 241°.39 0°.4/12.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.56	+19 20.8	2.554	3.394	10.0	21.7
12 23	7 49.84	+19 37.7	2.469	3.385	7.1	21.5
1 2	7 42.50	+19 59.0	2.412	3.377	3.8	21.3
1 12	7 34.19	+20 22.3	2.385	3.368	0.5	21.0
1 22	7 25.71	+20 45.5	2.388	3.359	3.3	21.2
2 1	7 17.89	+21 6.5	2.421	3.349	6.7	21.4
2 11	7 11.51	+21 24.3	2.482	3.340	9.7	21.6
2 21	7 7.07	+21 38.2	2.566	3.330	12.3	21.8

180037 2003 AD_{65} 1 12.7 32°.42 7°.7/10.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.97	+36 17.8	1.346	2.209	15.8	18.9
12 23	7 55.63	+37 42.3	1.304	2.221	12.0	18.7
1 2	7 45.96	+38 55.2	1.286	2.234	8.8	18.6
1 12	7 34.41	+39 46.2	1.292	2.248	7.8	18.6
1 22	7 22.89	+40 9.2	1.324	2.263	9.8	18.7
2 1	7 13.30	+40 4.0	1.380	2.279	13.1	19.0
2 11	7 7.01	+39 35.9	1.457	2.295	16.4	19.2
2 21	7 4.58	+38 51.6	1.553	2.311	19.3	19.5

197536 2004 EJ_{64} 1 12.7 9°.21 1°.5/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.05	+22 53.6	1.986	2.840	11.8	19.8
12 23	7 50.57	+23 53.6	1.918	2.841	8.3	19.6
1 2	7 43.02	+24 57.9	1.876	2.842	4.5	19.3
1 12	7 34.23	+26 1.1	1.862	2.844	1.5	19.1
1 22	7 25.24	+26 58.3	1.879	2.846	4.5	19.3
2 1	7 17.16	+27 45.8	1.923	2.848	8.3	19.6
2 11	7 10.97	+28 22.1	1.994	2.851	11.8	19.8
2 21	7 7.28	+28 47.6	2.087	2.853	14.7	20.0

466790 2015 BZ_{21} 1 12.7 81°.05 4°.1/14.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.73	+ 7 30.8	2.247	3.062	12.1	21.0
12 23	7 49.26	+ 7 38.1	2.179	3.070	9.2	20.8
1 2	7 42.17	+ 7 58.9	2.137	3.079	6.3	20.7
1 12	7 34.18	+ 8 32.4	2.122	3.087	4.2	20.6
1 22	7 26.11	+ 9 16.1	2.137	3.096	4.9	20.6
2 1	7 18.82	+10 6.7	2.181	3.104	7.5	20.8
2 11	7 13.07	+11 0.7	2.251	3.113	10.4	21.0
2 21	7 9.32	+11 54.6	2.345	3.121	13.0	21.2

25459 1999 XL_{14} 1 12.7 101°.83 2°.0/13.7 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.05	+13 18.9	2.245	3.077	11.5	18.0
12 23	7 50.21	+13 46.4	2.180	3.088	8.4	17.8
1 2	7 42.69	+14 23.6	2.141	3.099	4.9	17.6
1 12	7 34.22	+15 8.1	2.132	3.110	2.1	17.5
1 22	7 25.69	+15 56.6	2.152	3.121	3.8	17.6
2 1	7 17.98	+16 45.9	2.202	3.132	7.1	17.8
2 11	7 11.87	+17 33.2	2.280	3.143	10.3	18.0
2 21	7 7.85	+18 16.4	2.381	3.153	12.9	18.2

78403 2002 QJ_{9} 1 12.7 152°.86 0°.2/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.65	+20 4.9	2.333	3.176	10.7	19.8
12 23	7 50.70	+20 47.1	2.261	3.179	7.6	19.6
1 2	7 42.99	+21 34.3	2.217	3.182	4.0	19.4
1 12	7 34.25	+22 22.8	2.202	3.186	0.3	19.1
1 22	7 25.37	+23 9.0	2.218	3.188	3.6	19.4
2 1	7 17.27	+23 50.1	2.265	3.191	7.1	19.6
2 11	7 10.78	+24 24.4	2.338	3.194	10.3	19.8
2 21	7 6.42	+24 51.6	2.434	3.196	13.0	20.0

381251 2007 TG_{120} 1 12.7 54°.84 10°.3/ 7.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 7.03	+52 3.5	2.205	2.999	13.0	20.4
12 23	7 58.99	+53 32.2	2.162	3.004	11.4	20.3
1 2	7 47.74	+54 41.1	2.142	3.011	10.4	20.2
1 12	7 34.57	+55 22.2	2.148	3.017	10.4	20.2
1 22	7 21.25	+55 31.7	2.178	3.023	11.3	20.3
2 1	7 9.60	+55 10.6	2.232	3.029	12.8	20.4
2 11	7 1.05	+54 24.3	2.306	3.036	14.4	20.5
2 21	6 56.26	+53 20.1	2.398	3.043	16.0	20.7

492427 2014 MU_{11} 1 12.7 277°.41 5°.0/13.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.44	+11 9.0	1.442	2.282	16.2	22.3
12 23	7 54.32	+10 37.3	1.356	2.264	12.4	22.0
1 2	7 45.32	+10 19.3	1.293	2.246	8.1	21.7
1 12	7 34.43	+10 15.8	1.256	2.228	5.1	21.5
1 22	7 23.02	+10 26.1	1.246	2.210	6.8	21.5
2 1	7 12.69	+10 47.9	1.261	2.191	11.2	21.7
2 11	7 4.83	+11 17.3	1.300	2.173	15.8	21.9
2 21	7 0.29	+11 50.7	1.359	2.154	19.8	22.1

197535 2004 EH_{62} 1 12.7 235°.22 1°.6/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.42	+24 10.3	1.572	2.426	14.4	21.1
12 23	7 56.32	+24 36.8	1.494	2.417	10.3	20.8
1 2	7 46.32	+25 5.6	1.441	2.407	5.6	20.6
1 12	7 34.49	+25 31.3	1.415	2.397	1.6	20.3
1 22	7 22.31	+25 49.2	1.418	2.386	5.4	20.5
2 1	7 11.39	+25 57.1	1.448	2.375	10.3	20.7
2 11	7 3.09	+25 55.3	1.502	2.364	14.7	21.0
2 21	6 58.18	+25 45.7	1.577	2.352	18.4	21.2

237218 2008 UD_{353} 1 12.7 311°.04 2°.0/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.33	+25 55.7	2.009	2.863	11.7	20.6
12 23	7 51.53	+26 29.2	1.932	2.854	8.3	20.4
1 2	7 43.57	+27 3.4	1.881	2.846	4.6	20.1
1 12	7 34.30	+27 33.8	1.858	2.838	2.0	19.9
1 22	7 24.81	+27 56.6	1.864	2.830	4.7	20.1
2 1	7 16.26	+28 9.9	1.899	2.822	8.5	20.3
2 11	7 9.66	+28 13.6	1.959	2.814	12.0	20.5
2 21	7 5.63	+28 8.9	2.041	2.807	15.0	20.7

243794 2000 SO_{95} 1 12.7 151°.97 1°.4/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.12	+25 10.2	1.960	2.803	12.4	21.6
12 23	7 56.13	+25 25.9	1.895	2.813	8.8	21.4
1 2	7 45.91	+25 40.9	1.857	2.822	4.7	21.2
1 12	7 34.45	+25 51.5	1.849	2.831	1.4	21.0
1 22	7 22.99	+25 54.8	1.871	2.838	4.5	21.2
2 1	7 12.76	+25 50.1	1.922	2.845	8.5	21.5
2 11	7 4.76	+25 38.2	2.000	2.851	12.0	21.7
2 21	6 59.52	+25 21.2	2.100	2.856	14.9	21.9

110937 2001 UF_{153} 1 12.7 89°.66 0°.9/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.63	+22 41.1	1.824	2.676	12.8	19.5
12 23	7 53.08	+23 8.9	1.764	2.687	9.0	19.3
1 2	7 44.33	+23 39.4	1.730	2.697	4.8	19.1
1 12	7 34.35	+24 8.6	1.724	2.707	0.9	18.8
1 22	7 24.34	+24 32.6	1.748	2.717	4.4	19.1
2 1	7 15.49	+24 49.5	1.799	2.727	8.6	19.3
2 11	7 8.81	+24 58.9	1.876	2.737	12.2	19.6
2 21	7 4.84	+25 1.6	1.975	2.747	15.2	19.8

174402 2002 VU_{71} 1 12.7 201°.56 2°.0/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.37	+25 4.3	1.990	2.839	12.0	20.2
12 23	7 53.68	+25 51.7	1.916	2.836	8.5	20.0
1 2	7 44.72	+26 40.7	1.868	2.833	4.7	19.7
1 12	7 34.39	+27 26.3	1.849	2.830	2.0	19.5
1 22	7 23.82	+28 3.8	1.861	2.826	4.8	19.7
2 1	7 14.23	+28 30.6	1.901	2.821	8.7	19.9
2 11	7 6.69	+28 46.4	1.967	2.816	12.2	20.2
2 21	7 1.83	+28 52.5	2.054	2.811	15.2	20.3

7400 Lenau 1 12.7 116°.96 0°.7/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.07	+18 28.0	2.245	3.087	11.1	18.2
12 23	7 50.95	+18 43.5	2.179	3.095	7.9	18.0
1 2	7 43.10	+19 4.2	2.139	3.103	4.3	17.8
1 12	7 34.28	+19 27.7	2.128	3.111	0.8	17.5
1 22	7 25.40	+19 51.4	2.148	3.119	3.5	17.8
2 1	7 17.39	+20 13.2	2.197	3.127	7.1	18.0
2 11	7 11.05	+20 31.9	2.273	3.134	10.4	18.2
2 21	7 6.88	+20 46.8	2.373	3.142	13.1	18.4

429320 2010 EA_{81} 1 12.7 33°.53 1°.1/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.03	+17 28.9	1.916	2.764	12.5	20.9
12 23	7 50.45	+17 44.6	1.852	2.771	8.9	20.7
1 2	7 42.91	+18 7.6	1.813	2.778	4.9	20.4
1 12	7 34.27	+18 35.2	1.803	2.785	1.2	20.2
1 22	7 25.55	+19 4.2	1.821	2.792	4.0	20.4
2 1	7 17.82	+19 32.0	1.867	2.800	7.9	20.7
2 11	7 11.97	+19 56.7	1.940	2.808	11.5	20.9
2 21	7 8.54	+20 17.3	2.034	2.817	14.5	21.1

233629 2007 UE_{52} 1 12.7 325°.38 5°.6/14.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 55.31	+ 5 28.7	2.264	3.070	12.3	19.7
12 23	7 49.71	+ 4 45.2	2.187	3.067	9.8	19.6
1 2	7 42.46	+ 4 14.5	2.135	3.064	7.2	19.4
1 12	7 34.24	+ 3 57.9	2.110	3.061	5.7	19.3
1 22	7 25.90	+ 3 55.4	2.113	3.058	6.2	19.3
2 1	7 18.30	+ 4 5.9	2.145	3.055	8.5	19.5
2 11	7 12.21	+ 4 26.5	2.203	3.052	11.1	19.6
2 21	7 8.14	+ 4 54.0	2.283	3.050	13.6	19.8

27198 1999 CR_{66} 1 12.7 2°.92 5°.0/14.9 18

12 13	7 54.29	+ 6 23.1	1.942	2.761	13.5	18.3
12 23	7 49.22	+ 6 21.1	1.870	2.761	10.5	18.1
1 2	7 42.28	+ 6 35.4	1.821	2.761	7.4	17.9
1 12	7 34.23	+ 7 5.9	1.799	2.761	5.2	17.8
1 22	7 26.04	+ 7 50.1	1.805	2.762	5.9	17.9
2 1	7 18.69	+ 8 44.4	1.839	2.763	8.7	18.0
2 11	7 13.06	+ 9 44.2	1.898	2.765	11.8	18.2
2 21	7 9.72	+10 45.0	1.980	2.767	14.7	18.4

376490 2012 KF_{10} 1 12.7 105°.10 0°.7/12.4 18

12 13	7 57.80	+21 24.8	1.984	2.834	12.0	21.4
12 23	7 51.76	+22 5.5	1.916	2.837	8.5	21.2
1 2	7 43.65	+22 50.6	1.875	2.841	4.5	20.9
1 12	7 34.33	+23 36.0	1.862	2.845	0.7	20.6
1 22	7 24.86	+24 17.5	1.878	2.848	4.1	20.9
2 1	7 16.36	+24 52.2	1.924	2.851	8.1	21.2
2 11	7 9.78	+25 18.8	1.996	2.855	11.7	21.4
2 21	7 5.71	+25 37.3	2.089	2.858	14.6	21.6

152591 1995 QZ_{6} 1 12.7 78°.92 3°.0/12.0 17

12 13	8 6.62	+27 36.6	1.316	2.177	16.2	20.2
12 23	7 58.49	+28 1.2	1.273	2.197	11.5	19.9
1 2	7 47.30	+28 22.4	1.253	2.218	6.4	19.7
1 12	7 34.56	+28 33.9	1.259	2.239	3.0	19.6
1 22	7 22.11	+28 32.1	1.293	2.259	6.3	19.8
2 1	7 11.66	+28 17.0	1.353	2.279	11.0	20.1
2 11	7 4.44	+27 51.8	1.437	2.299	15.1	20.4
2 21	7 0.90	+27 20.2	1.540	2.319	18.5	20.7

232637 2003 UO_{250} 1 12.7 37°.39 2°.1/12.1 18

12 13	7 58.74	+26 27.4	1.787	2.644	12.8	20.3
12 23	7 52.51	+26 48.3	1.730	2.654	9.0	20.1
1 2	7 44.04	+27 8.1	1.699	2.664	5.0	19.9
1 12	7 34.35	+27 22.7	1.695	2.675	2.1	19.7
1 22	7 24.68	+27 29.0	1.719	2.686	4.9	19.9
2 1	7 16.26	+27 25.9	1.771	2.697	8.8	20.2
2 11	7 10.06	+27 14.5	1.849	2.709	12.4	20.4
2 21	7 6.62	+26 56.5	1.947	2.721	15.4	20.7

336688 2010 AU_{66} 1 12.7 8°.63 2°.3/13.7 18

12 13	7 55.41	+13 34.3	1.985	2.824	12.5	20.8
12 23	7 50.01	+13 49.2	1.913	2.824	9.2	20.6
1 2	7 42.71	+14 14.6	1.866	2.825	5.5	20.4
1 12	7 34.28	+14 48.6	1.847	2.826	2.4	20.2
1 22	7 25.71	+15 28.2	1.857	2.827	4.2	20.3
2 1	7 18.01	+16 10.0	1.896	2.828	7.9	20.5
2 11	7 12.08	+16 51.1	1.961	2.830	11.4	20.7
2 21	7 8.46	+17 29.3	2.048	2.832	14.4	20.9

184815 2005 TP_{136} 1 12.7 278°.16 1°.1/12.3 18

12 13	7 58.84	+22 55.9	1.808	2.662	12.8	20.8
12 23	7 52.73	+23 29.1	1.735	2.658	9.1	20.5
1 2	7 44.28	+24 5.7	1.687	2.653	4.9	20.3
1 12	7 34.40	+24 41.4	1.666	2.649	1.1	20.0
1 22	7 24.29	+25 11.8	1.675	2.644	4.6	20.2
2 1	7 15.24	+25 34.3	1.712	2.640	8.9	20.5
2 11	7 8.32	+25 48.1	1.774	2.635	12.8	20.7
2 21	7 4.20	+25 54.0	1.857	2.631	16.0	20.9

163496 2002 SY_{38} 1 12.7 179°.25 0°.4/12.9 18

12 13	7 56.41	+19 8.2	2.383	3.225	10.6	20.3
12 23	7 50.50	+19 29.5	2.309	3.225	7.5	20.1
1 2	7 42.89	+19 55.7	2.261	3.226	4.1	19.9
1 12	7 34.30	+20 24.1	2.243	3.226	0.5	19.6
1 22	7 25.59	+20 52.1	2.255	3.226	3.4	19.8
2 1	7 17.64	+21 17.5	2.297	3.225	6.9	20.1
2 11	7 11.25	+21 39.0	2.366	3.225	10.1	20.3
2 21	7 6.93	+21 56.0	2.459	3.224	12.8	20.4

191998 2005 XB_{62} 1 12.7 32°.66 0°.9/12.6 17

12 13	8 1.81	+23 37.2	0.973	1.854	18.8	18.9
12 23	7 55.60	+23 33.3	0.935	1.870	13.3	18.7
1 2	7 45.93	+23 31.5	0.918	1.888	7.0	18.4
1 12	7 34.50	+23 27.4	0.924	1.907	1.0	18.1
1 22	7 23.41	+23 17.7	0.955	1.928	6.1	18.5
2 1	7 14.60	+23 2.0	1.008	1.949	12.0	18.9
2 11	7 9.35	+22 41.7	1.083	1.972	16.9	19.2
2 21	7 8.07	+22 18.5	1.175	1.995	20.8	19.6

35540 1998 FE_{94} 1 12.7 292°.78 4°.2/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 58.12	+32 53.8	2.269	3.117	10.8	18.4
12 23	7 52.05	+33 44.6	2.192	3.106	8.0	18.2
1 2	7 43.87	+34 31.0	2.141	3.095	5.3	18.0
1 12	7 34.38	+35 7.8	2.119	3.084	4.2	18.0
1 22	7 24.65	+35 31.0	2.126	3.074	6.0	18.0
2 1	7 15.80	+35 39.1	2.162	3.063	8.9	18.2
2 11	7 8.83	+35 33.0	2.222	3.053	11.7	18.4
2 21	7 4.38	+35 15.3	2.304	3.042	14.3	18.5

328289 2008 GK_{111} 1 12.7 189°.05 5°.7/15.1 18

12 13	7 56.99	+ 3 7.5	2.348	3.139	12.4	21.5
12 23	7 50.86	+ 2 46.4	2.269	3.138	9.9	21.3
1 2	7 43.09	+ 2 40.2	2.215	3.136	7.5	21.1
1 12	7 34.33	+ 2 49.9	2.188	3.135	5.9	21.0
1 22	7 25.43	+ 3 14.4	2.191	3.132	6.3	21.1
2 1	7 17.25	+ 3 51.5	2.222	3.129	8.4	21.2
2 11	7 10.55	+ 4 37.5	2.280	3.126	10.9	21.3
2 21	7 5.87	+ 5 28.5	2.361	3.122	13.4	21.5

235046 2003 FG_{67} 1 12.7 313°.62 0°.2/12.8 18

12 13	7 59.42	+19 8.1	1.350	2.212	15.8	20.0
12 23	7 53.73	+19 42.4	1.279	2.205	11.3	19.8
1 2	7 45.05	+20 26.8	1.230	2.198	6.1	19.4
1 12	7 34.48	+21 16.0	1.208	2.191	0.5	19.0
1 22	7 23.53	+22 4.2	1.212	2.185	5.3	19.4
2 1	7 13.88	+22 46.4	1.242	2.178	10.7	19.6
2 11	7 6.97	+23 19.9	1.296	2.172	15.5	19.9
2 21	7 3.56	+23 44.4	1.368	2.167	19.5	20.1

368050 2012 HS_{31} 1 12.7 306°.58 1°.1/12.4 18

12 13	7 58.77	+23 13.6	1.667	2.525	13.5	20.8
12 23	7 52.90	+23 35.9	1.588	2.513	9.6	20.5
1 2	7 44.46	+24 1.3	1.534	2.502	5.2	20.2
1 12	7 34.43	+24 25.5	1.507	2.490	1.1	19.9
1 22	7 24.10	+24 44.7	1.509	2.479	4.9	20.2
2 1	7 14.85	+24 56.2	1.537	2.468	9.5	20.4
2 11	7 7.91	+24 59.8	1.590	2.457	13.7	20.6
2 21	7 3.98	+24 56.4	1.664	2.446	17.2	20.9

13073 1991 RE_{15} 1 12.7 144°.52 3°.6/11.7 18

12 13	8 6.97	+30 25.4	1.819	2.663	13.2	18.0
12 23	7 58.36	+30 58.1	1.760	2.675	9.5	17.8
1 2	7 47.18	+31 25.4	1.728	2.687	5.7	17.6
1 12	7 34.61	+31 41.5	1.724	2.698	3.6	17.5
1 22	7 22.08	+31 43.2	1.750	2.708	5.9	17.6
2 1	7 11.03	+31 30.1	1.804	2.717	9.6	17.9
2 11	7 2.57	+31 5.0	1.885	2.725	13.1	18.1
2 21	6 57.27	+30 31.9	1.986	2.733	16.0	18.3

262298 2006 SP_{407} 1 12.7 109°.69 5°.6/15.6 18

12 13	7 58.52	+ 3 22.5	1.993	2.791	14.0	20.9
12 23	7 52.02	+ 3 32.1	1.934	2.810	11.0	20.8
1 2	7 43.70	+ 4 0.4	1.900	2.829	8.0	20.6
1 12	7 34.38	+ 4 46.3	1.892	2.847	5.8	20.5
1 22	7 25.05	+ 5 46.7	1.914	2.865	6.2	20.6
2 1	7 16.70	+ 6 57.0	1.965	2.882	8.7	20.8
2 11	7 10.16	+ 8 11.9	2.042	2.898	11.6	21.0
2 21	7 5.92	+ 9 26.6	2.143	2.915	14.2	21.2

23251 2000 XL_{6} 1 12.7 100°.94 3°.2/11.5 18

12 13	8 2.27	+30 16.4	2.163	3.007	11.4	18.5
12 23	7 54.67	+30 52.4	2.115	3.030	8.2	18.3
1 2	7 45.08	+31 23.9	2.093	3.052	4.9	18.1
1 12	7 34.47	+31 46.3	2.101	3.074	3.2	18.1
1 22	7 23.96	+31 56.8	2.138	3.095	5.1	18.2
2 1	7 14.65	+31 54.8	2.205	3.116	8.2	18.5
2 11	7 7.43	+31 42.2	2.298	3.136	11.1	18.7
2 21	7 2.76	+31 21.4	2.413	3.156	13.6	18.9

238365 2004 CE_{52} 1 12.7 208°.70 0°.7/12.2 17

12 13	7 56.53	+21 16.5	3.058	3.892	8.7	21.0
12 23	7 50.42	+22 19.4	2.972	3.886	6.1	20.8
1 2	7 42.84	+23 26.4	2.915	3.880	3.2	20.6
1 12	7 34.33	+24 33.8	2.890	3.873	0.7	20.4
1 22	7 25.58	+25 38.0	2.898	3.865	3.1	20.6
2 1	7 17.34	+26 36.2	2.939	3.857	6.1	20.7
2 11	7 10.28	+27 26.5	3.008	3.849	8.7	20.9
2 21	7 4.93	+28 8.6	3.102	3.840	10.9	21.1

202875 2008 UR_{130} 1 12.7 189°.47 3°.9/13.9 18

12 13	8 0.99	+11 42.7	1.693	2.525	14.6	21.1
12 23	7 54.21	+11 27.6	1.619	2.525	10.9	20.8
1 2	7 45.06	+11 25.0	1.570	2.524	6.9	20.6
1 12	7 34.49	+11 34.1	1.549	2.522	4.0	20.4
1 22	7 23.73	+11 53.0	1.555	2.520	5.6	20.5
2 1	7 14.07	+12 19.1	1.590	2.518	9.5	20.7
2 11	7 6.60	+12 49.1	1.650	2.515	13.4	21.0
2 21	7 1.97	+13 20.1	1.731	2.512	16.7	21.2

403657 2010 TS_{92} 1 12.7 10°.14 9°.0/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 4.43	+40 46.1	1.218	2.078	17.3	19.3
12 23	7 57.69	+41 17.9	1.169	2.080	13.7	19.1
1 2	7 47.17	+41 30.2	1.141	2.084	10.4	18.9
1 12	7 34.62	+41 13.9	1.137	2.090	9.0	18.9
1 22	7 22.30	+40 25.9	1.156	2.096	10.7	19.0
2 1	7 12.37	+39 10.1	1.199	2.104	14.0	19.2
2 11	7 6.24	+37 35.5	1.263	2.114	17.6	19.5
2 21	7 4.35	+35 51.6	1.345	2.124	20.7	19.7

175926 2000 DV_{47} 1 12.7 306°.01 4°.1/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.71	+10 17.0	1.593	2.432	15.1	20.5
12 23	7 51.43	+10 25.4	1.512	2.420	11.4	20.2
1 2	7 43.70	+10 50.5	1.454	2.408	7.3	20.0
1 12	7 34.41	+11 31.1	1.422	2.396	4.2	19.7
1 22	7 24.74	+12 23.9	1.418	2.385	5.7	19.8
2 1	7 16.04	+13 24.0	1.440	2.374	9.8	20.0
2 11	7 9.49	+14 26.3	1.488	2.363	13.9	20.2
2 21	7 5.83	+15 26.4	1.555	2.352	17.6	20.4

354982 2006 KC_{32} 1 12.7 274°.02 1°.3/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.01	+23 15.2	1.588	2.445	14.1	21.5
12 23	7 54.67	+23 43.2	1.506	2.430	10.1	21.3
1 2	7 45.52	+24 15.0	1.449	2.416	5.5	21.0
1 12	7 34.56	+24 45.5	1.419	2.401	1.3	20.6
1 22	7 23.18	+25 10.0	1.416	2.386	5.2	20.9
2 1	7 12.93	+25 25.7	1.442	2.371	10.1	21.1
2 11	7 5.16	+25 32.0	1.491	2.356	14.5	21.3
2 21	7 0.66	+25 30.3	1.560	2.341	18.3	21.6

83789 2001 TC_{205} 1 12.7 8°.36 3°.3/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.15	+28 49.9	2.058	2.912	11.5	19.5
12 23	7 51.41	+29 49.3	1.992	2.913	8.2	19.3
1 2	7 43.55	+30 47.4	1.952	2.914	5.0	19.1
1 12	7 34.41	+31 38.6	1.941	2.915	3.3	19.0
1 22	7 25.10	+32 18.4	1.959	2.917	5.5	19.1
2 1	7 16.75	+32 44.4	2.006	2.918	8.8	19.3
2 11	7 10.35	+32 56.8	2.077	2.920	11.9	19.5
2 21	7 6.52	+32 57.5	2.170	2.923	14.6	19.7

379402 2010 AL_{8} 1 12.7 38°.74 2°.0/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.68	+27 44.8	2.007	2.857	11.9	20.7
12 23	7 53.77	+27 46.3	1.938	2.858	8.5	20.5
1 2	7 44.72	+27 44.7	1.895	2.860	4.7	20.3
1 12	7 34.50	+27 36.9	1.881	2.861	2.0	20.1
1 22	7 24.26	+27 20.8	1.897	2.863	4.6	20.3
2 1	7 15.16	+26 56.6	1.941	2.865	8.3	20.5
2 11	7 8.16	+26 25.9	2.012	2.867	11.8	20.7
2 21	7 3.79	+25 50.8	2.104	2.869	14.7	20.9

37067 2000 UW_{49} 1 12.7 226°.55 0°.9/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.76	+17 56.6	1.935	2.775	12.7	18.9
12 23	7 54.01	+18 13.5	1.850	2.765	9.1	18.7
1 2	7 44.99	+18 37.5	1.790	2.754	5.1	18.4
1 12	7 34.53	+19 5.6	1.759	2.742	1.0	18.1
1 22	7 23.76	+19 34.6	1.759	2.730	4.2	18.3
2 1	7 13.89	+20 1.8	1.787	2.717	8.5	18.5
2 11	7 5.99	+20 25.2	1.842	2.703	12.4	18.7
2 21	7 0.75	+20 44.3	1.919	2.689	15.7	18.9

232389 2003 BP_{62} 1 12.7 9°.73 4°.7/11.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.90	+28 37.7	1.146	2.022	17.0	19.6
12 23	7 55.23	+29 42.3	1.092	2.023	12.3	19.4
1 2	7 45.99	+30 45.7	1.059	2.024	7.4	19.1
1 12	7 34.60	+31 37.9	1.051	2.027	4.8	18.9
1 22	7 22.99	+32 11.0	1.067	2.030	8.0	19.1
2 1	7 13.24	+32 22.3	1.108	2.034	12.9	19.4
2 11	7 6.92	+32 14.2	1.169	2.038	17.4	19.7
2 21	7 4.71	+31 51.4	1.248	2.043	21.2	20.0

144388 2004 DD_{72} 1 12.7 179°.69 0°.9/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.10	+17 10.9	3.011	3.842	8.9	21.4
12 23	7 49.30	+17 23.9	2.933	3.843	6.4	21.2
1 2	7 42.19	+17 41.5	2.882	3.844	3.6	21.1
1 12	7 34.33	+18 2.1	2.862	3.844	1.0	20.9
1 22	7 26.37	+18 24.0	2.874	3.844	2.9	21.0
2 1	7 19.00	+18 45.4	2.916	3.843	5.7	21.2
2 11	7 12.83	+19 5.2	2.987	3.842	8.3	21.4
2 21	7 8.29	+19 22.6	3.083	3.841	10.6	21.5

125230 2001 UC_{160} 1 12.7 221°.73 1°.0/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.94	+22 21.0	1.705	2.556	13.6	20.1
12 23	7 55.11	+22 56.8	1.628	2.549	9.7	19.8
1 2	7 45.67	+23 37.2	1.576	2.542	5.2	19.5
1 12	7 34.59	+24 17.0	1.552	2.535	1.0	19.2
1 22	7 23.18	+24 51.4	1.557	2.527	4.9	19.5
2 1	7 12.89	+25 17.3	1.591	2.518	9.5	19.7
2 11	7 4.95	+25 33.9	1.649	2.509	13.7	20.0
2 21	7 0.07	+25 42.0	1.729	2.500	17.1	20.2

241259 2007 TV_{314} 1 12.7 105°.71 2°.2/13.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 1.94	+15 2.1	1.708	2.546	14.2	21.0
12 23	7 54.68	+15 9.0	1.654	2.566	10.3	20.8
1 2	7 45.20	+15 25.5	1.625	2.585	5.9	20.6
1 12	7 34.55	+15 49.2	1.624	2.604	2.3	20.4
1 22	7 23.95	+16 16.7	1.653	2.622	4.6	20.6
2 1	7 14.65	+16 45.3	1.709	2.640	8.7	20.9
2 11	7 7.60	+17 12.5	1.792	2.657	12.5	21.1
2 21	7 3.33	+17 36.8	1.896	2.674	15.6	21.4

213717 2002 VO_{19} 1 12.7 9°.71 4°.7/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.57	+32 53.2	2.018	2.870	11.8	19.9
12 23	7 52.53	+33 56.7	1.955	2.871	8.7	19.7
1 2	7 44.19	+34 55.5	1.918	2.872	5.8	19.6
1 12	7 34.49	+35 43.1	1.909	2.873	4.7	19.5
1 22	7 24.60	+36 14.9	1.928	2.874	6.6	19.6
2 1	7 15.79	+36 29.2	1.975	2.876	9.6	19.8
2 11	7 9.10	+36 27.4	2.046	2.878	12.6	20.0
2 21	7 5.16	+36 12.6	2.138	2.881	15.1	20.2

168324 1993 FA_{19} 1 12.7 201°.07 0°.8/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.17	+17 27.7	2.744	3.578	9.6	20.7
12 23	7 49.50	+17 48.0	2.663	3.575	6.8	20.5
1 2	7 42.36	+18 13.5	2.610	3.572	3.8	20.3
1 12	7 34.36	+18 42.3	2.586	3.569	0.9	20.1
1 22	7 26.23	+19 12.1	2.594	3.565	3.1	20.2
2 1	7 18.71	+19 40.9	2.633	3.561	6.2	20.4
2 11	7 12.51	+20 7.2	2.699	3.557	9.0	20.6
2 21	7 8.08	+20 30.0	2.790	3.552	11.5	20.8

383741 2007 VN_{50} 1 12.7 42°.26 4°.1/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.13	+10 0.4	2.166	2.989	12.2	20.6
12 23	7 50.33	+ 9 27.1	2.097	2.994	9.3	20.4
1 2	7 42.83	+ 9 4.2	2.054	2.999	6.2	20.2
1 12	7 34.40	+ 8 52.2	2.038	3.005	4.2	20.1
1 22	7 25.90	+ 8 50.4	2.052	3.010	5.2	20.2
2 1	7 18.26	+ 8 57.6	2.094	3.016	7.9	20.4
2 11	7 12.25	+ 9 11.3	2.163	3.022	10.9	20.6
2 21	7 8.35	+ 9 29.1	2.254	3.028	13.5	20.8

31863 Hazelcoffman 1 12.7 197°.61 0°.2/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.03	+19 17.8	1.841	2.684	13.1	19.9
12 23	7 54.97	+19 50.6	1.764	2.681	9.4	19.7
1 2	7 45.52	+20 30.2	1.713	2.678	5.0	19.4
1 12	7 34.59	+21 12.4	1.690	2.674	0.4	19.1
1 22	7 23.39	+21 52.9	1.698	2.669	4.3	19.4
2 1	7 13.22	+22 28.3	1.735	2.663	8.8	19.6
2 11	7 5.19	+22 56.9	1.798	2.657	12.8	19.8
2 21	6 59.98	+23 18.6	1.882	2.649	16.0	20.1

344849 2004 GX_{42} 1 12.7 303°.91 1°.3/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.08	+14 57.7	2.129	2.968	11.7	20.0
12 23	7 49.95	+15 40.5	2.032	2.946	8.5	19.8
1 2	7 42.83	+16 34.6	1.961	2.923	4.9	19.5
1 12	7 34.41	+17 37.1	1.919	2.900	1.5	19.2
1 22	7 25.58	+18 43.8	1.906	2.878	3.9	19.4
2 1	7 17.37	+19 50.3	1.924	2.855	7.8	19.6
2 11	7 10.76	+20 52.9	1.968	2.833	11.5	19.7
2 21	7 6.42	+21 49.1	2.035	2.811	14.7	19.9

313206 2001 RS_{52} 1 12.7 104°.28 0°.2/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 52.63	+19 58.5	3.632	4.467	7.4	21.7
12 23	7 47.36	+20 15.3	3.572	4.485	5.2	21.6
1 2	7 41.09	+20 34.5	3.540	4.504	2.8	21.4
1 12	7 34.28	+20 54.4	3.539	4.522	0.3	21.2
1 22	7 27.47	+21 13.6	3.569	4.540	2.3	21.4
2 1	7 21.18	+21 30.9	3.631	4.557	4.7	21.6
2 11	7 15.90	+21 45.6	3.722	4.575	6.9	21.8
2 21	7 11.94	+21 57.3	3.838	4.592	8.7	21.9

230535 2002 XW_{99} 1 12.7 43°.11 3°.7/11.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.12	+26 30.5	1.208	2.079	16.6	19.8
12 23	7 55.87	+27 36.3	1.156	2.086	11.9	19.5
1 2	7 46.25	+28 43.2	1.127	2.094	6.8	19.3
1 12	7 34.65	+29 41.8	1.124	2.102	3.7	19.1
1 22	7 22.93	+30 24.4	1.146	2.110	7.2	19.3
2 1	7 13.01	+30 47.8	1.193	2.119	12.1	19.6
2 11	7 6.36	+30 53.3	1.261	2.128	16.5	19.9
2 21	7 3.63	+30 44.8	1.348	2.138	20.2	20.2

287672 2003 OH_{27} 1 12.7 163°.39 0°.5/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.49	+19 0.7	1.974	2.814	12.5	21.7
12 23	7 54.33	+19 17.3	1.904	2.820	8.9	21.5
1 2	7 45.06	+19 39.3	1.861	2.825	4.8	21.2
1 12	7 34.57	+20 3.7	1.847	2.830	0.7	20.9
1 22	7 23.97	+20 27.4	1.863	2.834	4.0	21.2
2 1	7 14.41	+20 48.0	1.908	2.837	8.1	21.4
2 11	7 6.86	+21 4.5	1.980	2.839	11.8	21.7
2 21	7 1.89	+21 16.6	2.075	2.841	14.8	21.9

122565 2000 RK_6 1 12.7 163°.37 1°.1/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 1.92	+18 5.4	1.857	2.698	13.1	20.5
12 23	7 54.72	+18 9.6	1.788	2.703	9.4	20.2
1 2	7 45.29	+18 19.8	1.745	2.708	5.2	20.0
1 12	7 34.58	+18 33.7	1.730	2.712	1.2	19.7
1 22	7 23.78	+18 48.4	1.745	2.715	4.2	20.0
2 1	7 14.09	+19 2.1	1.789	2.718	8.5	20.2
2 11	7 6.53	+19 13.5	1.859	2.720	12.3	20.5
2 21	7 1.67	+19 22.2	1.951	2.722	15.4	20.7

244629 2003 BV_{51} 1 12.7 32°.80 5°.3/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.18	+33 52.7	1.131	2.000	17.7	18.4
12 23	7 58.36	+33 50.5	1.101	2.026	12.9	18.2
1 2	7 47.24	+33 35.5	1.092	2.053	8.0	18.0
1 12	7 34.70	+33 2.3	1.107	2.081	5.3	17.9
1 22	7 22.84	+32 10.4	1.148	2.110	7.7	18.2
2 1	7 13.50	+31 4.5	1.214	2.140	12.0	18.5
2 11	7 7.75	+29 51.0	1.302	2.171	16.0	18.8
2 21	7 5.86	+28 35.8	1.409	2.203	19.3	19.1

467894 2011 HJ_{11} 1 12.7 164°.24 0°.2/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.93	+19 11.2	2.878	3.713	9.2	22.2
12 23	7 49.96	+19 42.6	2.805	3.718	6.5	22.0
1 2	7 42.59	+20 18.0	2.759	3.723	3.5	21.8
1 12	7 34.40	+20 55.1	2.744	3.727	0.3	21.5
1 22	7 26.11	+21 31.3	2.760	3.731	2.9	21.8
2 1	7 18.45	+22 4.4	2.808	3.734	6.0	22.0
2 11	7 12.07	+22 33.3	2.884	3.737	8.7	22.2
2 21	7 7.43	+22 57.2	2.984	3.739	11.0	22.3

98099 2000 RF_{83} 1 12.7 288°.48 11°.1/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 17.84	+47 50.3	1.559	2.374	16.5	18.4
12 23	8 7.68	+48 29.2	1.473	2.346	14.0	18.2
1 2	7 52.88	+48 44.6	1.408	2.318	11.8	18.0
1 12	7 35.14	+48 23.3	1.368	2.290	11.1	17.9
1 22	7 17.05	+47 18.7	1.354	2.262	12.4	17.9
2 1	7 1.38	+45 33.4	1.365	2.233	15.3	18.0
2 11	6 50.11	+43 19.0	1.399	2.205	18.6	18.1
2 21	6 43.97	+40 49.3	1.451	2.176	21.8	18.3

491677 2012 UF_{31} 1 12.7 353°.40 4°.4/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.83	+12 34.8	1.176	2.035	17.9	20.8
12 23	7 53.43	+12 16.2	1.113	2.032	13.4	20.5
1 2	7 44.95	+12 13.9	1.070	2.029	8.4	20.3
1 12	7 34.58	+12 27.2	1.051	2.028	4.5	20.0
1 22	7 23.96	+12 53.4	1.057	2.027	6.6	20.2
2 1	7 14.82	+13 28.3	1.088	2.026	11.6	20.4
2 11	7 8.58	+14 6.9	1.140	2.026	16.4	20.7
2 21	7 5.96	+14 45.2	1.211	2.027	20.5	21.0

326447 2001 VM_{64} 1 12.7 43°.16 1°.9/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.17	+25 20.5	1.407	2.271	15.2	19.9
12 23	7 54.52	+25 40.1	1.365	2.292	10.7	19.6
1 2	7 45.23	+25 59.5	1.346	2.313	5.7	19.4
1 12	7 34.59	+26 13.5	1.353	2.334	1.9	19.2
1 22	7 24.15	+26 19.0	1.387	2.356	5.4	19.5
2 1	7 15.39	+26 14.9	1.448	2.379	10.0	19.8
2 11	7 9.38	+26 2.6	1.533	2.402	14.0	20.1
2 21	7 6.60	+25 44.2	1.637	2.425	17.2	20.4

125892 2001 XL_{212} 1 12.7 71°.57 1°.3/13.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.92	+16 46.7	1.359	2.213	16.2	20.1
12 23	7 55.09	+17 11.8	1.312	2.233	11.6	19.8
1 2	7 45.57	+17 47.5	1.289	2.254	6.4	19.6
1 12	7 34.62	+18 29.2	1.292	2.274	1.5	19.3
1 22	7 23.77	+19 11.7	1.322	2.295	5.0	19.6
2 1	7 14.53	+19 50.9	1.380	2.315	9.9	20.0
2 11	7 8.01	+20 24.4	1.461	2.335	14.2	20.3
2 21	7 4.76	+20 51.0	1.562	2.355	17.7	20.6

167048 2003 QV_{56} 1 12.7 81°.14 3°.3/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.04	+27 50.8	1.548	2.404	14.5	19.7
12 23	7 56.51	+28 39.5	1.504	2.426	10.3	19.5
1 2	7 46.29	+29 25.6	1.484	2.447	5.9	19.3
1 12	7 34.68	+30 2.3	1.491	2.468	3.3	19.2
1 22	7 23.19	+30 25.0	1.527	2.489	6.0	19.4
2 1	7 13.33	+30 32.6	1.590	2.510	10.1	19.7
2 11	7 6.22	+30 27.0	1.677	2.530	13.8	19.9
2 21	7 2.38	+30 11.4	1.785	2.550	16.9	20.2

64598 2001 XN_{17} 1 12.7 247°.02 5°.2/10.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.35	+33 40.5	2.033	2.880	11.9	18.9
12 23	7 54.68	+34 56.6	1.959	2.870	8.9	18.7
1 2	7 45.47	+36 8.3	1.910	2.861	6.2	18.5
1 12	7 34.64	+37 8.2	1.891	2.851	5.2	18.4
1 22	7 23.42	+37 50.7	1.900	2.841	7.1	18.5
2 1	7 13.19	+38 13.2	1.937	2.830	10.2	18.6
2 11	7 5.17	+38 17.0	1.998	2.820	13.2	18.8
2 21	7 0.11	+38 5.8	2.080	2.809	15.9	19.0

415367 2013 KJ_{13} 1 12.7 253°.90 4°.1/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 1.24	+29 30.0	1.755	2.610	13.1	21.1
12 23	7 54.76	+30 40.0	1.682	2.603	9.5	20.8
1 2	7 45.57	+31 49.0	1.636	2.596	5.9	20.6
1 12	7 34.66	+32 49.3	1.617	2.589	4.2	20.5
1 22	7 23.37	+33 34.6	1.626	2.581	6.6	20.6
2 1	7 13.22	+34 1.9	1.663	2.574	10.4	20.8
2 11	7 5.48	+34 11.8	1.724	2.566	14.0	21.0
2 21	7 0.92	+34 7.5	1.806	2.559	17.1	21.2

20367 Erikagibb 1 12.7 194°.97 0°.4/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.52	+18 31.3	2.491	3.328	10.4	19.3
12 23	7 51.31	+19 3.6	2.411	3.325	7.4	19.1
1 2	7 43.41	+19 41.4	2.359	3.322	4.0	18.8
1 12	7 34.50	+20 21.8	2.336	3.319	0.5	18.5
1 22	7 25.40	+21 1.8	2.345	3.315	3.3	18.8
2 1	7 17.01	+21 38.9	2.384	3.311	6.8	19.0
2 11	7 10.10	+22 11.3	2.451	3.306	9.9	19.2
2 21	7 5.23	+22 38.3	2.541	3.301	12.6	19.4

14470 1993 RV_7 1 12.7 160°.78 2°.9/11.8 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.00	+28 37.0	1.955	2.804	12.2	18.5
12 23	7 54.85	+29 8.2	1.889	2.807	8.8	18.3
1 2	7 45.40	+29 36.6	1.848	2.810	5.1	18.1
1 12	7 34.64	+29 57.4	1.837	2.813	2.9	18.0
1 22	7 23.78	+30 7.2	1.854	2.816	5.2	18.1
2 1	7 14.09	+30 4.9	1.901	2.818	8.9	18.3
2 11	7 6.61	+29 51.8	1.973	2.820	12.3	18.6
2 21	7 1.92	+29 30.6	2.066	2.821	15.2	18.8

82778 2001 QP_{17} 1 12.7 83°.29 0°.2/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.52	+18 48.9	2.247	3.090	11.1	19.5
12 23	7 50.64	+19 28.5	2.186	3.104	7.8	19.3
1 2	7 43.04	+20 13.7	2.152	3.117	4.2	19.1
1 12	7 34.47	+21 1.0	2.148	3.131	0.4	18.8
1 22	7 25.85	+21 46.9	2.173	3.144	3.5	19.1
2 1	7 18.08	+22 28.5	2.229	3.158	7.1	19.4
2 11	7 11.97	+23 4.1	2.311	3.171	10.3	19.6
2 21	7 8.00	+23 33.0	2.417	3.184	12.9	19.8

226594 2004 CD_{23} 1 12.7 103°.79 0°.1/12.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.28	+18 56.3	1.393	2.247	15.9	20.8
12 23	7 56.19	+19 48.1	1.340	2.262	11.2	20.6
1 2	7 46.26	+20 49.1	1.310	2.277	6.0	20.3
1 12	7 34.71	+21 52.7	1.308	2.291	0.4	20.0
1 22	7 23.09	+22 52.0	1.333	2.305	5.1	20.4
2 1	7 13.03	+23 42.3	1.386	2.318	10.2	20.7
2 11	7 5.75	+24 21.6	1.463	2.331	14.6	21.0
2 21	7 1.87	+24 50.1	1.560	2.344	18.1	21.3

3441 Pochaina 1 12.7 66°.95 0°.0/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.49	+20 12.3	2.072	2.919	11.7	17.1
12 23	7 51.36	+20 36.5	2.018	2.938	8.2	16.9
1 2	7 43.41	+21 5.0	1.991	2.956	4.4	16.7
1 12	7 34.50	+21 34.4	1.992	2.975	0.3	16.4
1 22	7 25.61	+22 1.8	2.023	2.994	3.7	16.8
2 1	7 17.73	+22 25.0	2.083	3.013	7.5	17.0
2 11	7 11.69	+22 43.0	2.169	3.031	10.7	17.3
2 21	7 7.94	+22 55.6	2.278	3.050	13.5	17.5

253336 2003 FD_{20} 1 12.7 1°.54 11°.3/ 9.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.03	+42 51.7	1.208	2.069	17.4	19.2
12 23	7 55.79	+44 24.1	1.161	2.066	14.3	19.0
1 2	7 46.49	+45 37.6	1.134	2.064	11.9	18.9
1 12	7 34.73	+46 19.2	1.129	2.065	11.4	18.8
1 22	7 22.80	+46 22.1	1.147	2.067	13.1	18.9
2 1	7 13.10	+45 47.2	1.187	2.070	16.0	19.1
2 11	7 7.34	+44 42.4	1.245	2.075	19.1	19.3
2 21	7 6.11	+43 17.8	1.320	2.081	22.0	19.6

377920 2006 EF_{38} 1 12.7 156°.13 2°.3/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.27	+28 52.0	2.689	3.530	9.5	22.1
12 23	7 52.44	+29 22.4	2.623	3.537	6.8	21.9
1 2	7 43.96	+29 50.4	2.584	3.544	4.0	21.8
1 12	7 34.56	+30 12.4	2.575	3.551	2.3	21.7
1 22	7 25.10	+30 26.0	2.597	3.557	4.1	21.8
2 1	7 16.46	+30 30.2	2.650	3.562	7.0	22.0
2 11	7 9.41	+30 25.6	2.730	3.567	9.6	22.2
2 21	7 4.42	+30 13.9	2.833	3.571	11.9	22.3

471641 2012 TD_{82} 1 12.8 118°.00 0°.0/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.06	+20 20.8	2.424	3.267	10.4	21.9
12 23	7 50.27	+20 41.1	2.354	3.271	7.3	21.7
1 2	7 42.84	+21 5.2	2.310	3.276	3.9	21.5
1 12	7 34.49	+21 30.5	2.297	3.280	0.3	21.2
1 22	7 26.04	+21 54.3	2.313	3.284	3.3	21.4
2 1	7 18.37	+22 14.9	2.360	3.288	6.8	21.7
2 11	7 12.24	+22 31.2	2.433	3.292	9.8	21.9
2 21	7 8.14	+22 42.9	2.530	3.296	12.4	22.0

242248 2003 ST_{233} 1 12.8 188°.15 4°.2/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 4.70	+33 2.5	2.275	3.112	11.2	21.6
12 23	7 56.69	+33 53.7	2.203	3.112	8.3	21.5
1 2	7 46.40	+34 39.4	2.158	3.110	5.4	21.3
1 12	7 34.74	+35 13.9	2.143	3.108	4.2	21.2
1 22	7 22.89	+35 33.3	2.158	3.105	6.0	21.3
2 1	7 12.07	+35 36.3	2.203	3.101	8.9	21.5
2 11	7 3.35	+35 24.8	2.274	3.096	11.8	21.7
2 21	6 57.34	+35 2.2	2.367	3.090	14.3	21.8

410456 2008 CN_{123} 1 12.8 198°.92 4°.9/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.49	+ 5 34.5	1.977	2.786	13.7	21.3
12 23	7 51.57	+ 5 51.6	1.898	2.784	10.7	21.1
1 2	7 43.66	+ 6 26.6	1.844	2.782	7.4	20.9
1 12	7 34.56	+ 7 18.6	1.817	2.780	5.1	20.7
1 22	7 25.22	+ 8 24.3	1.819	2.777	5.7	20.8
2 1	7 16.70	+ 9 39.1	1.850	2.774	8.7	20.9
2 11	7 9.95	+10 57.5	1.908	2.771	12.0	21.1
2 21	7 5.56	+12 14.9	1.989	2.767	14.9	21.3

415749 2000 KE_{70} 1 12.8 260°.85 5°.7/ 9.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.74	+31 20.5	1.835	2.685	12.8	19.9
12 23	7 56.06	+33 28.8	1.760	2.675	9.5	19.7
1 2	7 46.44	+35 37.6	1.713	2.665	6.6	19.5
1 12	7 34.77	+37 35.9	1.696	2.655	5.8	19.4
1 22	7 22.39	+39 14.1	1.708	2.645	8.1	19.5
2 1	7 10.92	+40 26.9	1.748	2.634	11.5	19.7
2 11	7 1.83	+41 14.1	1.812	2.624	14.8	19.9
2 21	6 56.07	+41 39.5	1.896	2.613	17.6	20.1

165684 2001 OD_{71} 1 12.8 126°.01 5°.2/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.61	+ 1 24.2	2.709	3.488	11.2	20.4
12 23	7 49.03	+ 1 29.5	2.640	3.500	9.0	20.2
1 2	7 42.11	+ 1 49.7	2.596	3.512	6.8	20.1
1 12	7 34.44	+ 2 24.8	2.581	3.523	5.3	20.0
1 22	7 26.72	+ 3 12.8	2.595	3.535	5.5	20.1
2 1	7 19.65	+ 4 10.8	2.638	3.545	7.2	20.2
2 11	7 13.84	+ 5 14.9	2.710	3.556	9.4	20.3
2 21	7 9.72	+ 6 21.5	2.805	3.566	11.5	20.5

235459 2003 YP_{162} 1 12.8 23°.46 6°.1/10.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.75	+36 48.0	1.847	2.696	12.8	19.9
12 23	7 54.24	+37 40.6	1.792	2.701	9.8	19.8
1 2	7 45.17	+38 23.5	1.761	2.706	7.1	19.6
1 12	7 34.66	+38 50.1	1.757	2.712	6.1	19.6
1 22	7 24.10	+38 56.5	1.780	2.718	7.7	19.7
2 1	7 14.91	+38 42.4	1.830	2.725	10.6	19.9
2 11	7 8.21	+38 11.2	1.903	2.732	13.5	20.1
2 21	7 4.58	+37 27.7	1.997	2.739	16.1	20.3

330714 2008 PB_{10} 1 12.8 105°.53 6°.0/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.14	+ 1 42.8	2.195	2.985	13.2	20.8
12 23	7 50.33	+ 1 41.7	2.131	2.998	10.6	20.6
1 2	7 42.87	+ 1 58.5	2.091	3.011	7.9	20.5
1 12	7 34.51	+ 2 33.1	2.078	3.024	6.2	20.4
1 22	7 26.08	+ 3 23.5	2.093	3.036	6.4	20.4
2 1	7 18.48	+ 4 25.7	2.137	3.049	8.4	20.6
2 11	7 12.46	+ 5 35.0	2.208	3.061	11.0	20.7
2 21	7 8.50	+ 6 46.6	2.302	3.072	13.4	20.9

329602 2003 FS_{94} 1 12.8 300°.02 7°.1/15.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.61	+ 2 16.9	1.770	2.575	15.2	20.4
12 23	7 50.56	+ 2 7.6	1.678	2.555	12.3	20.2
1 2	7 43.29	+ 2 19.8	1.609	2.535	9.4	20.0
1 12	7 34.55	+ 2 55.1	1.565	2.515	7.3	19.8
1 22	7 25.38	+ 3 52.1	1.548	2.496	7.7	19.8
2 1	7 16.96	+ 5 6.7	1.558	2.476	10.4	19.9
2 11	7 10.39	+ 6 32.3	1.592	2.457	13.8	20.1
2 21	7 6.41	+ 8 2.3	1.648	2.438	17.1	20.2

250199 2002 UY_{38} 1 12.8 106°.06 1°.5/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.24	+24 3.0	1.958	2.804	12.3	21.2
12 23	7 54.83	+24 45.3	1.907	2.826	8.7	21.1
1 2	7 45.31	+25 28.6	1.883	2.848	4.6	20.8
1 12	7 34.68	+26 8.1	1.888	2.869	1.5	20.7
1 22	7 24.09	+26 39.9	1.923	2.890	4.5	20.9
2 1	7 14.71	+27 2.2	1.987	2.910	8.3	21.2
2 11	7 7.47	+27 14.8	2.078	2.929	11.6	21.4
2 21	7 2.87	+27 19.3	2.191	2.948	14.4	21.7

424322 2007 UR_{12} 1 12.8 99°.09 2°.9/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.18	+29 49.0	2.535	3.378	10.0	21.2
12 23	7 52.43	+30 40.6	2.485	3.399	7.1	21.1
1 2	7 43.97	+31 29.0	2.462	3.421	4.3	20.9
1 12	7 34.59	+32 9.8	2.470	3.442	3.0	20.9
1 22	7 25.20	+32 40.0	2.508	3.462	4.7	21.0
2 1	7 16.74	+32 58.2	2.576	3.482	7.4	21.2
2 11	7 9.97	+33 5.2	2.670	3.502	10.0	21.4
2 21	7 5.36	+33 2.8	2.788	3.521	12.1	21.6

496739 2016 HA_{5} 1 12.8 105°.03 4°.2/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 59.88	+33 16.7	2.239	3.084	11.0	20.7
12 23	7 53.23	+34 5.4	2.179	3.091	8.1	20.5
1 2	7 44.52	+34 48.5	2.145	3.098	5.4	20.4
1 12	7 34.63	+35 20.7	2.140	3.104	4.3	20.3
1 22	7 24.66	+35 38.6	2.164	3.111	5.9	20.4
2 1	7 15.74	+35 41.4	2.216	3.117	8.7	20.6
2 11	7 8.80	+35 30.4	2.295	3.124	11.5	20.8
2 21	7 4.39	+35 8.8	2.394	3.130	13.9	21.0

104280 2000 ED_{154} 1 12.8 319°.01 4°.3/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.22	+32 15.9	2.077	2.927	11.6	19.3
12 23	7 52.97	+33 10.2	2.009	2.925	8.5	19.1
1 2	7 44.48	+34 0.2	1.967	2.922	5.6	18.9
1 12	7 34.63	+34 39.9	1.953	2.920	4.3	18.9
1 22	7 24.59	+35 5.3	1.968	2.917	6.2	19.0
2 1	7 15.58	+35 14.6	2.011	2.915	9.3	19.2
2 11	7 8.64	+35 9.1	2.079	2.913	12.3	19.3
2 21	7 4.39	+34 51.8	2.168	2.911	14.9	19.5

198521 2004 XX_{97} 1 12.8 45°.76 0°.6/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.10	+23 58.0	1.995	2.844	12.0	20.2
12 23	7 53.36	+23 48.7	1.926	2.846	8.5	20.0
1 2	7 44.57	+23 39.4	1.883	2.849	4.5	19.7
1 12	7 34.64	+23 27.5	1.869	2.852	0.7	19.5
1 22	7 24.68	+23 11.8	1.884	2.854	4.0	19.7
2 1	7 15.82	+22 52.0	1.928	2.857	8.0	20.0
2 11	7 8.97	+22 28.8	1.999	2.860	11.6	20.2
2 21	7 4.67	+22 3.5	2.092	2.863	14.5	20.4

285354 1999 RU_{187} 1 12.8 193°.89 3°.2/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.68	+ 9 38.1	2.556	3.369	10.9	21.1
12 23	7 50.65	+ 9 43.4	2.474	3.367	8.2	20.9
1 2	7 43.05	+ 9 59.4	2.418	3.364	5.4	20.7
1 12	7 34.54	+10 24.9	2.391	3.360	3.3	20.6
1 22	7 25.86	+10 58.3	2.395	3.357	4.2	20.6
2 1	7 17.84	+11 37.0	2.429	3.352	6.9	20.8
2 11	7 11.20	+12 18.4	2.491	3.347	9.8	20.9
2 21	7 6.43	+12 59.8	2.577	3.341	12.3	21.1

235973 2005 EJ_{250} 1 12.8 139°.45 6°.7/16.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.68	− 2 15.6	2.360	3.128	13.0	20.1
12 23	7 49.30	− 2 8.0	2.284	3.130	10.8	19.9
1 2	7 42.35	− 1 40.3	2.231	3.132	8.5	19.8
1 12	7 34.49	− 0 52.3	2.204	3.135	7.0	19.7
1 22	7 26.49	+ 0 14.1	2.206	3.137	7.0	19.7
2 1	7 19.17	+ 1 34.8	2.237	3.139	8.6	19.8
2 11	7 13.28	+ 3 4.4	2.294	3.141	10.8	20.0
2 21	7 9.31	+ 4 37.4	2.376	3.143	13.1	20.1

465661 2009 RC_{73} 1 12.8 85°.55 2°.2/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.35	+15 28.7	1.887	2.728	13.0	21.8
12 23	7 52.19	+15 21.7	1.819	2.732	9.4	21.6
1 2	7 43.98	+15 22.9	1.775	2.736	5.5	21.4
1 12	7 34.61	+15 30.7	1.760	2.739	2.3	21.2
1 22	7 25.15	+15 43.2	1.773	2.743	4.4	21.3
2 1	7 16.70	+15 58.4	1.815	2.747	8.2	21.6
2 11	7 10.19	+16 14.2	1.883	2.751	11.9	21.8
2 21	7 6.19	+16 29.3	1.973	2.754	14.9	22.0

502153 2015 BJ_{36} 1 12.8 326°.61 0°.9/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.54	+19 42.1	2.285	3.127	11.0	20.5
12 23	7 51.38	+19 24.2	2.209	3.125	7.8	20.2
1 2	7 43.47	+19 9.1	2.158	3.122	4.3	20.0
1 12	7 34.58	+18 55.7	2.137	3.120	1.0	19.8
1 22	7 25.60	+18 43.0	2.146	3.117	3.6	20.0
2 1	7 17.47	+18 30.4	2.185	3.115	7.2	20.2
2 11	7 11.00	+18 17.6	2.251	3.113	10.4	20.4
2 21	7 6.68	+18 4.7	2.340	3.111	13.2	20.6

420732 2012 SR_{34} 1 12.8 309°.78 5°.5/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.18	+38 6.2	2.281	3.118	11.2	20.7
12 23	7 54.23	+38 44.3	2.214	3.116	8.6	20.5
1 2	7 45.09	+39 13.0	2.174	3.114	6.3	20.3
1 12	7 34.69	+39 27.0	2.161	3.112	5.5	20.3
1 22	7 24.22	+39 23.3	2.177	3.111	6.9	20.4
2 1	7 14.87	+39 2.0	2.221	3.109	9.3	20.5
2 11	7 7.62	+38 25.8	2.290	3.107	11.9	20.7
2 21	7 3.06	+37 38.7	2.380	3.106	14.2	20.8

253999 2004 EY_{95} 1 12.8 278°.19 2°.8/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.36	+14 8.1	2.354	3.183	11.1	20.1
12 23	7 51.27	+13 35.7	2.264	3.169	8.3	19.9
1 2	7 43.45	+13 9.4	2.201	3.156	5.1	19.6
1 12	7 34.59	+12 49.3	2.167	3.142	2.8	19.5
1 22	7 25.53	+12 34.9	2.163	3.128	4.2	19.5
2 1	7 17.20	+12 25.8	2.189	3.114	7.4	19.7
2 11	7 10.39	+12 20.9	2.242	3.101	10.6	19.9
2 21	7 5.66	+12 19.2	2.318	3.087	13.4	20.0

178148 2006 TZ_{87} 1 12.8 217°.57 2°.1/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 59.51	+15 27.0	1.963	2.800	12.7	20.5
12 23	7 53.04	+15 21.7	1.884	2.795	9.3	20.2
1 2	7 44.49	+15 24.3	1.830	2.789	5.4	20.0
1 12	7 34.67	+15 33.3	1.804	2.784	2.2	19.8
1 22	7 24.65	+15 46.8	1.808	2.777	4.3	19.9
2 1	7 15.55	+16 2.7	1.841	2.771	8.3	20.1
2 11	7 8.34	+16 19.2	1.900	2.764	11.9	20.3
2 21	7 3.64	+16 34.9	1.982	2.757	15.1	20.5

404457 2013 GV_{114} 1 12.8 223°.59 7°.3/15.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.76	+ 0 43.2	1.823	2.616	15.4	21.2
12 23	7 51.92	+ 0 38.0	1.743	2.611	12.5	21.0
1 2	7 43.94	+ 0 55.3	1.686	2.605	9.5	20.8
1 12	7 34.63	+ 1 36.0	1.655	2.600	7.5	20.7
1 22	7 25.05	+ 2 38.1	1.651	2.594	7.8	20.7
2 1	7 16.33	+ 3 57.0	1.674	2.588	10.2	20.8
2 11	7 9.49	+ 5 25.8	1.724	2.581	13.3	21.0
2 21	7 5.18	+ 6 58.0	1.795	2.575	16.3	21.2

275351 2011 AB_{11} 1 12.8 325°.23 0°.2/12.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.59	+21 20.6	1.570	2.431	14.1	20.9
12 23	7 52.24	+21 33.9	1.491	2.416	10.1	20.6
1 2	7 44.27	+21 52.1	1.435	2.403	5.4	20.3
1 12	7 34.66	+22 11.8	1.406	2.389	0.4	19.9
1 22	7 24.71	+22 29.1	1.405	2.377	4.8	20.2
2 1	7 15.86	+22 41.7	1.430	2.365	9.7	20.5
2 11	7 9.34	+22 48.4	1.479	2.353	14.1	20.7
2 21	7 5.90	+22 49.5	1.549	2.343	17.8	20.9

63391 2001 JG_{6} 1 12.8 267°.79 4°.6/10.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.82	+33 1.6	2.096	2.944	11.5	19.4
12 23	7 53.43	+34 1.4	2.028	2.942	8.6	19.2
1 2	7 44.75	+34 56.4	1.987	2.940	5.7	19.0
1 12	7 34.70	+35 40.4	1.974	2.938	4.6	18.9
1 22	7 24.44	+36 9.0	1.990	2.937	6.4	19.0
2 1	7 15.20	+36 20.5	2.034	2.935	9.4	19.2
2 11	7 8.06	+36 16.4	2.103	2.933	12.3	19.4
2 21	7 3.63	+35 59.7	2.193	2.931	14.9	19.6

332883 2011 AA_{49} 1 12.8 207°.62 1°.4/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.09	+15 9.7	2.649	3.476	10.1	21.7
12 23	7 50.97	+15 32.8	2.563	3.470	7.3	21.5
1 2	7 43.26	+16 3.3	2.504	3.463	4.2	21.3
1 12	7 34.59	+16 38.9	2.475	3.455	1.5	21.1
1 22	7 25.73	+17 17.3	2.477	3.447	3.3	21.2
2 1	7 17.48	+17 55.8	2.511	3.438	6.5	21.4
2 11	7 10.59	+18 32.6	2.572	3.428	9.5	21.6
2 21	7 5.57	+19 6.0	2.658	3.418	12.0	21.7

364867 2008 DQ_{49} 1 12.8 267°.20 0°.1/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.87	+17 29.4	1.738	2.586	13.6	20.5
12 23	7 52.99	+18 37.7	1.659	2.579	9.7	20.3
1 2	7 44.64	+19 57.8	1.606	2.571	5.2	20.0
1 12	7 34.71	+21 24.0	1.581	2.564	0.4	19.6
1 22	7 24.38	+22 49.4	1.586	2.557	4.5	19.9
2 1	7 14.97	+24 8.0	1.619	2.550	9.2	20.2
2 11	7 7.66	+25 15.8	1.679	2.542	13.3	20.4
2 21	7 3.23	+26 11.3	1.759	2.535	16.7	20.6

332142 2005 WC_{177} 1 12.8 10°.65 1°.8/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.19	+24 26.9	1.609	2.471	13.7	20.6
12 23	7 52.52	+25 4.7	1.546	2.472	9.7	20.3
1 2	7 44.34	+25 44.9	1.507	2.474	5.3	20.1
1 12	7 34.68	+26 22.0	1.495	2.477	1.8	19.9
1 22	7 24.87	+26 51.3	1.511	2.480	5.2	20.1
2 1	7 16.29	+27 10.3	1.554	2.483	9.6	20.4
2 11	7 10.09	+27 18.8	1.621	2.487	13.5	20.6
2 21	7 6.88	+27 17.9	1.709	2.492	16.8	20.8

486887 2014 KT_{67} 1 12.8 222°.89 0°.3/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.31	+20 18.7	1.849	2.693	13.0	22.3
12 23	7 55.34	+20 57.8	1.765	2.683	9.3	22.1
1 2	7 45.88	+21 43.5	1.706	2.672	5.0	21.8
1 12	7 34.82	+22 31.1	1.677	2.660	0.4	21.4
1 22	7 23.36	+23 15.9	1.677	2.647	4.5	21.7
2 1	7 12.84	+23 54.1	1.707	2.634	9.0	22.0
2 11	7 4.45	+24 24.1	1.762	2.620	13.0	22.2
2 21	6 58.94	+24 45.9	1.840	2.605	16.4	22.4

236140 2005 US_{18} 1 12.8 7°.70 1°.9/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.50	+23 6.7	1.133	2.008	17.1	19.8
12 23	7 54.20	+23 53.6	1.076	2.009	12.2	19.5
1 2	7 45.52	+24 46.5	1.040	2.010	6.6	19.2
1 12	7 34.79	+25 37.7	1.029	2.011	1.9	18.9
1 22	7 23.83	+26 19.9	1.043	2.014	6.3	19.2
2 1	7 14.57	+26 48.6	1.082	2.018	11.9	19.5
2 11	7 8.52	+27 3.5	1.141	2.022	16.8	19.8
2 21	7 6.40	+27 6.1	1.219	2.027	20.9	20.1

170441 2003 UV_{141} 1 12.8 175°.49 0°.4/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 1.42	+20 58.5	2.077	2.918	11.9	21.1
12 23	7 54.35	+21 33.4	2.004	2.921	8.4	20.9
1 2	7 45.18	+22 12.6	1.958	2.924	4.5	20.7
1 12	7 34.76	+22 52.1	1.942	2.925	0.5	20.4
1 22	7 24.17	+23 28.1	1.956	2.926	4.0	20.7
2 1	7 14.53	+23 57.9	2.000	2.926	8.0	20.9
2 11	7 6.82	+24 20.5	2.071	2.926	11.5	21.1
2 21	7 1.63	+24 36.2	2.165	2.924	14.5	21.3

329 Svea 1 12.8 242°.34 8°.9/16.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.14	− 2 4.5	1.729	2.513	16.4	13.7
12 23	7 51.54	− 2 28.4	1.655	2.511	13.7	13.5
1 2	7 43.77	− 2 27.3	1.603	2.509	11.0	13.3
1 12	7 34.66	− 1 59.2	1.575	2.506	9.1	13.2
1 22	7 25.32	− 1 5.1	1.573	2.504	9.2	13.2
2 1	7 16.91	+ 0 10.5	1.597	2.502	11.2	13.3
2 11	7 10.46	+ 1 40.3	1.646	2.499	14.0	13.5
2 21	7 6.61	+ 3 16.6	1.716	2.497	16.9	13.7

28627 2000 FH_{33} 1 12.8 234°.65 3°.0/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.40	+10 34.1	2.445	3.266	11.1	19.3
12 23	7 49.87	+10 41.9	2.360	3.258	8.3	19.1
1 2	7 42.72	+11 0.3	2.301	3.250	5.3	18.9
1 12	7 34.60	+11 28.2	2.270	3.242	3.1	18.7
1 22	7 26.28	+12 3.7	2.270	3.234	4.2	18.8
2 1	7 18.60	+12 44.1	2.299	3.226	7.1	19.0
2 11	7 12.33	+13 26.6	2.356	3.217	10.0	19.1
2 21	7 7.98	+14 8.8	2.437	3.208	12.7	19.3

284744 2008 UU_{211} 1 12.8 105°.20 4°.3/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.58	+30 16.7	1.583	2.436	14.4	20.9
12 23	7 57.75	+31 13.0	1.533	2.453	10.4	20.7
1 2	7 47.11	+32 4.5	1.509	2.469	6.4	20.5
1 12	7 34.91	+32 43.6	1.512	2.484	4.3	20.5
1 22	7 22.75	+33 5.5	1.543	2.500	6.7	20.6
2 1	7 12.23	+33 9.2	1.602	2.515	10.6	20.9
2 11	7 4.53	+32 57.3	1.684	2.529	14.2	21.2
2 21	7 0.23	+32 34.1	1.787	2.543	17.2	21.4

473846 2016 EW_{129} 1 12.8 141°.84 0°.4/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.83	+19 34.6	2.272	3.113	11.0	21.9
12 23	7 51.61	+19 47.6	2.203	3.119	7.8	21.7
1 2	7 43.63	+20 4.7	2.160	3.124	4.2	21.5
1 12	7 34.66	+20 23.6	2.146	3.129	0.5	21.2
1 22	7 25.61	+20 41.9	2.163	3.134	3.5	21.5
2 1	7 17.41	+20 57.8	2.209	3.138	7.1	21.7
2 11	7 10.88	+21 10.3	2.283	3.143	10.4	21.9
2 21	7 6.53	+21 19.0	2.379	3.147	13.1	22.1

267804 2003 SX_{311} 1 12.8 63°.06 0°.7/12.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.94	+18 47.7	1.139	2.004	17.8	20.9
12 23	7 56.34	+19 8.2	1.090	2.017	12.7	20.7
1 2	7 46.51	+19 38.5	1.062	2.030	6.9	20.4
1 12	7 34.87	+20 13.2	1.060	2.043	0.9	20.0
1 22	7 23.26	+20 46.8	1.083	2.056	5.6	20.4
2 1	7 13.49	+21 15.3	1.131	2.069	11.3	20.7
2 11	7 6.94	+21 36.9	1.201	2.083	16.1	21.1
2 21	7 4.19	+21 51.4	1.290	2.096	20.1	21.4

369811 2012 HH_{52} 1 12.8 134°.64 2°.1/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.10	+15 13.9	1.951	2.790	12.7	21.2
12 23	7 52.02	+15 12.1	1.880	2.792	9.2	21.0
1 2	7 43.93	+15 18.7	1.834	2.794	5.4	20.8
1 12	7 34.69	+15 32.0	1.816	2.796	2.2	20.6
1 22	7 25.32	+15 50.0	1.828	2.798	4.2	20.7
2 1	7 16.91	+16 10.2	1.868	2.799	8.1	21.0
2 11	7 10.37	+16 30.6	1.934	2.801	11.6	21.2
2 21	7 6.26	+16 49.8	2.023	2.802	14.7	21.4

84247 2002 SL_{36} 1 12.8 65°.62 0°.7/13.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.53	+18 8.6	1.538	2.391	14.8	19.9
12 23	7 53.96	+18 34.6	1.490	2.411	10.5	19.6
1 2	7 45.00	+19 8.7	1.466	2.431	5.7	19.4
1 12	7 34.76	+19 46.4	1.469	2.452	0.9	19.1
1 22	7 24.59	+20 23.4	1.500	2.472	4.5	19.4
2 1	7 15.83	+20 56.4	1.559	2.493	9.1	19.8
2 11	7 9.50	+21 23.5	1.643	2.514	13.1	20.0
2 21	7 6.12	+21 44.1	1.747	2.534	16.4	20.3

457065 2008 EZ_{44} 1 12.8 275°.36 1°.9/13.4 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.59	+15 49.2	1.842	2.685	13.2	22.3
12 23	7 52.68	+15 55.7	1.753	2.667	9.6	22.1
1 2	7 44.45	+16 11.3	1.688	2.649	5.6	21.8
1 12	7 34.74	+16 34.0	1.651	2.631	2.0	21.5
1 22	7 24.64	+17 1.1	1.642	2.613	4.5	21.7
2 1	7 15.39	+17 29.7	1.662	2.595	8.8	21.9
2 11	7 8.09	+17 57.3	1.708	2.576	12.8	22.1
2 21	7 3.46	+18 22.3	1.775	2.558	16.3	22.3

99169 2001 FY_{152} 1 12.8 184°.77 0°.4/13.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 56.62	+18 39.3	2.848	3.681	9.3	20.8
12 23	7 50.54	+19 3.7	2.769	3.681	6.6	20.6
1 2	7 43.01	+19 32.3	2.717	3.680	3.6	20.4
1 12	7 34.63	+20 3.1	2.696	3.679	0.5	20.2
1 22	7 26.12	+20 33.6	2.707	3.678	3.0	20.4
2 1	7 18.23	+21 2.0	2.749	3.676	6.0	20.6
2 11	7 11.63	+21 26.8	2.819	3.673	8.8	20.8
2 21	7 6.80	+21 47.6	2.914	3.670	11.2	20.9

502730 2015 DL_{33} 1 12.8 357°.18 3°.8/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.21	+32 9.2	2.135	2.984	11.3	20.8
12 23	7 52.87	+32 40.8	2.067	2.983	8.3	20.6
1 2	7 44.40	+33 7.1	2.025	2.982	5.3	20.4
1 12	7 34.73	+33 23.6	2.012	2.982	3.8	20.3
1 22	7 24.97	+33 27.3	2.028	2.982	5.6	20.5
2 1	7 16.25	+33 17.5	2.072	2.982	8.7	20.6
2 11	7 9.55	+32 55.7	2.141	2.982	11.7	20.8
2 21	7 5.42	+32 25.0	2.232	2.982	14.3	21.0

210295 2007 TM_{94} 1 12.8 25°.54 3°.6/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.53	+13 25.2	1.536	2.385	15.0	19.5
12 23	7 51.07	+12 56.6	1.488	2.402	11.0	19.3
1 2	7 43.42	+12 39.7	1.463	2.421	6.8	19.1
1 12	7 34.66	+12 34.0	1.465	2.441	3.7	18.9
1 22	7 25.99	+12 37.8	1.493	2.461	5.4	19.1
2 1	7 18.62	+12 48.9	1.549	2.483	9.2	19.3
2 11	7 13.46	+13 4.4	1.628	2.505	12.9	19.6
2 21	7 10.99	+13 21.7	1.729	2.528	16.0	19.9

246756 2009 BM_{160} 1 12.8 153°.01 2°.8/14.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.89	+10 54.6	2.505	3.326	10.8	21.3
12 23	7 49.42	+11 4.9	2.430	3.329	8.1	21.1
1 2	7 42.44	+11 25.2	2.381	3.331	5.1	20.9
1 12	7 34.60	+11 54.3	2.361	3.334	2.9	20.8
1 22	7 26.63	+12 30.1	2.371	3.336	3.9	20.9
2 1	7 19.34	+13 10.1	2.411	3.338	6.7	21.0
2 11	7 13.44	+13 51.4	2.479	3.340	9.6	21.2
2 21	7 9.38	+14 31.9	2.570	3.342	12.1	21.4

204617 2005 LB_{5} 1 12.8 15°.48 1°.7/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.72	+23 55.0	1.991	2.846	11.8	19.9
12 23	7 51.17	+24 51.0	1.924	2.847	8.3	19.7
1 2	7 43.55	+25 50.1	1.884	2.850	4.5	19.4
1 12	7 34.68	+26 47.1	1.871	2.852	1.7	19.3
1 22	7 25.63	+27 37.2	1.888	2.855	4.6	19.5
2 1	7 17.50	+28 17.2	1.934	2.858	8.3	19.7
2 11	7 11.28	+28 46.0	2.006	2.861	11.8	19.9
2 21	7 7.57	+29 4.4	2.099	2.865	14.6	20.1

378412 2007 RJ_{128} 1 12.8 27°.29 0°.6/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.26	+19 1.8	1.839	2.691	12.7	21.1
12 23	7 50.79	+19 17.5	1.778	2.699	9.0	20.9
1 2	7 43.29	+19 39.1	1.742	2.708	4.9	20.7
1 12	7 34.66	+20 3.8	1.734	2.717	0.7	20.4
1 22	7 25.97	+20 28.5	1.755	2.727	4.0	20.7
2 1	7 18.33	+20 50.7	1.804	2.737	8.1	20.9
2 11	7 12.65	+21 8.9	1.878	2.748	11.7	21.2
2 21	7 9.47	+21 22.4	1.974	2.759	14.8	21.4

338957 2004 EH_{113} 1 12.8 161°.19 3°.7/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.13	+32 57.6	2.493	3.335	10.1	21.2
12 23	7 52.58	+33 33.6	2.426	3.337	7.5	21.0
1 2	7 44.18	+34 4.4	2.385	3.339	4.9	20.8
1 12	7 34.72	+34 25.8	2.374	3.340	3.7	20.7
1 22	7 25.18	+34 35.1	2.393	3.342	5.3	20.8
2 1	7 16.54	+34 31.5	2.440	3.343	7.9	21.0
2 11	7 9.66	+34 16.3	2.514	3.344	10.6	21.2
2 21	7 5.07	+33 52.1	2.611	3.346	12.8	21.4

506232 2016 LO_{52} 1 12.8 161°.69 1°.9/13.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 51.76	+12 7.9	4.035	4.848	7.2	22.1
12 23	7 46.76	+11 59.5	3.958	4.853	5.3	22.0
1 2	7 40.87	+11 56.3	3.908	4.857	3.4	21.8
1 12	7 34.48	+11 57.7	3.890	4.862	2.0	21.7
1 22	7 28.06	+12 3.2	3.903	4.866	2.7	21.8
2 1	7 22.05	+12 11.8	3.947	4.869	4.5	21.9
2 11	7 16.88	+12 22.5	4.021	4.873	6.4	22.1
2 21	7 12.85	+12 34.2	4.120	4.876	8.2	22.2

11175 1998 FY_{67} 1 12.8 220°.02 2°.4/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 51.54	+10 35.0	3.480	4.294	8.2	19.4
12 23	7 46.77	+10 37.5	3.396	4.289	6.2	19.3
1 2	7 40.94	+10 47.1	3.338	4.285	4.0	19.1
1 12	7 34.49	+11 3.4	3.310	4.280	2.5	19.0
1 22	7 27.95	+11 25.0	3.313	4.275	3.2	19.1
2 1	7 21.84	+11 50.6	3.347	4.270	5.2	19.2
2 11	7 16.68	+12 18.5	3.410	4.265	7.4	19.3
2 21	7 12.82	+12 47.0	3.497	4.260	9.3	19.5

49913 1999 XE_{171} 1 12.8 29°.28 3°.1/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 3.05	+26 58.8	1.136	2.010	17.3	18.2
12 23	7 56.66	+27 24.4	1.085	2.015	12.4	17.9
1 2	7 46.78	+27 48.6	1.054	2.021	6.9	17.7
1 12	7 34.92	+28 4.2	1.048	2.028	3.1	17.4
1 22	7 23.05	+28 6.4	1.067	2.036	6.8	17.7
2 1	7 13.16	+27 54.2	1.111	2.044	12.1	18.0
2 11	7 6.68	+27 30.4	1.176	2.053	16.8	18.3
2 21	7 4.22	+26 58.9	1.260	2.062	20.7	18.6

63322 2001 FO_{48} 1 12.8 193°.14 4°.3/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.62	+31 14.6	1.775	2.621	13.4	20.0
12 23	7 58.53	+32 1.0	1.705	2.620	9.8	19.8
1 2	7 47.62	+32 42.6	1.660	2.617	6.1	19.6
1 12	7 34.99	+33 12.5	1.643	2.614	4.3	19.4
1 22	7 22.14	+33 25.6	1.656	2.611	6.6	19.6
2 1	7 10.64	+33 21.1	1.696	2.606	10.3	19.8
2 11	7 1.77	+33 1.3	1.762	2.600	14.0	20.0
2 21	6 56.23	+32 30.7	1.848	2.594	17.0	20.2

463276 2012 GW_{38} 1 12.8 236°.02 1°.6/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.89	+22 55.3	2.058	2.906	11.7	21.3
12 23	7 52.76	+24 1.8	1.980	2.900	8.3	21.1
1 2	7 44.45	+25 13.1	1.928	2.893	4.5	20.8
1 12	7 34.76	+26 23.7	1.905	2.887	1.6	20.6
1 22	7 24.73	+27 28.1	1.913	2.879	4.6	20.8
2 1	7 15.53	+28 22.3	1.951	2.872	8.4	21.0
2 11	7 8.20	+29 4.5	2.014	2.865	12.0	21.2
2 21	7 3.40	+29 35.1	2.100	2.857	14.9	21.4

176969 2002 XS_{56} 1 12.8 84°.77 4°.1/11.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.23	+32 48.4	1.785	2.628	13.5	20.2
12 23	7 59.11	+33 4.9	1.744	2.657	9.8	20.1
1 2	7 47.59	+33 12.6	1.729	2.686	6.1	19.9
1 12	7 34.97	+33 6.8	1.743	2.714	4.1	19.8
1 22	7 22.73	+32 45.7	1.786	2.742	6.1	20.0
2 1	7 12.23	+32 10.9	1.858	2.769	9.5	20.3
2 11	7 4.44	+31 26.2	1.955	2.796	12.7	20.5
2 21	6 59.78	+30 36.0	2.074	2.822	15.3	20.8

272977 2006 DM_{20} 1 12.8 43°.07 2°.8/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.41	+28 14.6	1.720	2.577	13.2	20.5
12 23	7 53.91	+28 40.0	1.664	2.586	9.4	20.3
1 2	7 45.02	+29 2.7	1.632	2.596	5.4	20.1
1 12	7 34.81	+29 17.8	1.628	2.606	2.8	19.9
1 22	7 24.61	+29 22.0	1.653	2.617	5.4	20.1
2 1	7 15.75	+29 14.5	1.705	2.628	9.3	20.4
2 11	7 9.28	+28 57.0	1.781	2.639	12.9	20.6
2 21	7 5.73	+28 32.0	1.879	2.651	15.9	20.9

146653 2001 UD_{101} 1 12.8 232°.55 1°.6/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.80	+16 22.5	1.958	2.798	12.6	20.4
12 23	7 52.62	+16 30.1	1.878	2.792	9.1	20.2
1 2	7 44.34	+16 45.6	1.824	2.785	5.2	20.0
1 12	7 34.77	+17 6.8	1.797	2.779	1.7	19.7
1 22	7 24.97	+17 31.1	1.801	2.772	4.1	19.9
2 1	7 16.07	+17 56.0	1.833	2.764	8.2	20.1
2 11	7 9.04	+18 19.4	1.891	2.757	11.9	20.3
2 21	7 4.52	+18 40.0	1.972	2.749	15.1	20.5

105438 2000 QD_{179} 1 12.8 85°.58 6°.0/15.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.17	+ 4 22.4	1.875	2.683	14.4	19.5
12 23	7 51.33	+ 4 9.1	1.812	2.694	11.3	19.3
1 2	7 43.57	+ 4 13.7	1.772	2.704	8.3	19.2
1 12	7 34.72	+ 4 36.5	1.759	2.714	6.2	19.1
1 22	7 25.79	+ 5 15.6	1.773	2.723	6.6	19.1
2 1	7 17.82	+ 6 7.0	1.815	2.733	9.2	19.3
2 11	7 11.71	+ 7 5.9	1.882	2.743	12.2	19.5
2 21	7 7.97	+ 8 7.5	1.972	2.753	15.0	19.7

85704 1998 SV_{19} 1 12.8 47°.28 1°.2/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.42	+23 33.6	1.391	2.254	15.4	19.8
12 23	7 54.87	+23 50.8	1.342	2.269	10.8	19.6
1 2	7 45.59	+24 10.1	1.317	2.284	5.8	19.4
1 12	7 34.87	+24 26.6	1.317	2.300	1.2	19.1
1 22	7 24.23	+24 36.7	1.345	2.316	5.2	19.4
2 1	7 15.22	+24 38.8	1.400	2.333	10.0	19.7
2 11	7 8.96	+24 33.5	1.478	2.350	14.2	20.0
2 21	7 5.99	+24 22.3	1.576	2.368	17.7	20.3

170541 2003 WV_{115} 1 12.8 78°.08 1°.2/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.46	+18 22.6	2.088	2.930	11.8	19.8
12 23	7 52.11	+18 13.2	2.024	2.940	8.5	19.6
1 2	7 43.92	+18 8.5	1.987	2.950	4.7	19.3
1 12	7 34.75	+18 7.0	1.978	2.960	1.3	19.1
1 22	7 25.57	+18 7.1	1.999	2.970	3.8	19.3
2 1	7 17.38	+18 7.7	2.050	2.980	7.5	19.6
2 11	7 11.00	+18 7.9	2.126	2.990	10.8	19.8
2 21	7 6.92	+18 7.1	2.226	3.000	13.7	20.0

57280 2001 QO_{148} 1 12.8 134.°32 5.°0/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 3.30	+29 30.0	1.426	2.288	15.1	19.9
12 23	7 56.69	+30 54.6	1.366	2.289	11.0	19.7
1 2	7 46.85	+32 18.0	1.329	2.289	6.9	19.4
1 12	7 34.98	+33 30.2	1.318	2.290	5.0	19.3
1 22	7 22.78	+34 23.1	1.335	2.291	7.8	19.5
2 1	7 12.07	+34 53.2	1.378	2.291	12.0	19.7
2 11	7 4.36	+35 2.0	1.444	2.291	16.0	20.0
2 21	7 0.41	+34 54.0	1.528	2.292	19.3	20.2

418411 2008 LH_{3} 1 12.8 151.°62 5.°7/15.5 18

12 13	7 56.69	+ 3 42.5	2.049	2.850	13.6	21.6
12 23	7 50.95	+ 3 39.2	1.976	2.853	10.8	21.4
1 2	7 43.37	+ 3 53.5	1.927	2.856	7.9	21.3
1 12	7 34.72	+ 4 25.4	1.905	2.859	5.9	21.1
1 22	7 25.92	+ 5 12.9	1.912	2.861	6.3	21.2
2 1	7 17.95	+ 6 12.3	1.947	2.864	8.7	21.3
2 11	7 11.65	+ 7 18.5	2.008	2.866	11.7	21.5
2 21	7 7.59	+ 8 26.9	2.092	2.868	14.4	21.7

215914 2005 JK_{36} 1 12.8 149.°32 1.°4/13.4 18

12 13	8 0.19	+16 21.2	2.330	3.159	11.2	22.0
12 23	7 53.19	+16 26.7	2.262	3.171	8.1	21.8
1 2	7 44.47	+16 38.3	2.221	3.181	4.6	21.6
1 12	7 34.80	+16 54.1	2.210	3.191	1.5	21.4
1 22	7 25.08	+17 12.1	2.230	3.200	3.6	21.6
2 1	7 16.24	+17 30.3	2.281	3.208	7.0	21.8
2 11	7 9.07	+17 47.4	2.359	3.216	10.2	22.1
2 21	7 4.06	+18 2.4	2.461	3.223	12.8	22.3

369333 2009 SO_{258} 1 12.8 114.°74 0.°4/12.6 18

12 13	7 59.33	+21 23.8	2.008	2.855	12.0	21.8
12 23	7 52.88	+21 50.7	1.944	2.864	8.5	21.6
1 2	7 44.40	+22 21.3	1.907	2.873	4.5	21.4
1 12	7 34.80	+22 51.8	1.899	2.882	0.5	21.1
1 22	7 25.12	+23 19.0	1.920	2.891	4.0	21.4
2 1	7 16.46	+23 40.6	1.971	2.899	7.9	21.6
2 11	7 9.74	+23 55.9	2.048	2.908	11.4	21.9
2 21	7 5.49	+24 4.9	2.147	2.916	14.3	22.1

485392 2011 KM_{31} 1 12.8 185.°79 1.°4/13.2 18

12 13	8 4.43	+18 10.2	1.874	2.710	13.2	21.8
12 23	7 56.60	+17 59.9	1.798	2.711	9.5	21.6
1 2	7 46.46	+17 54.6	1.748	2.710	5.3	21.3
1 12	7 34.96	+17 52.5	1.727	2.709	1.5	21.0
1 22	7 23.30	+17 51.7	1.737	2.707	4.3	21.2
2 1	7 12.77	+17 51.1	1.776	2.704	8.6	21.5
2 11	7 4.40	+17 49.9	1.841	2.700	12.5	21.7
2 21	6 58.82	+17 48.0	1.928	2.695	15.7	21.9

198929 2005 UK_{217} 1 12.8 24.°89 6.°4/14.1 18

12 13	7 59.35	+10 43.6	1.066	1.925	19.3	19.2
12 23	7 53.82	+ 9 45.4	1.018	1.934	14.7	19.0
1 2	7 45.20	+ 9 5.5	0.989	1.943	9.8	18.8
1 12	7 34.86	+ 8 46.0	0.983	1.953	6.5	18.6
1 22	7 24.53	+ 8 46.3	1.001	1.965	8.0	18.7
2 1	7 15.96	+ 9 3.0	1.042	1.977	12.4	19.0
2 11	7 10.44	+ 9 30.8	1.104	1.991	16.8	19.3
2 21	7 8.55	+10 4.0	1.185	2.005	20.6	19.6

317612 2003 AV_{47} 1 12.8 319.°71 3.°3/12.1 18

12 13	8 2.35	+29 39.9	1.584	2.442	14.1	19.8
12 23	7 55.68	+29 48.2	1.509	2.432	10.2	19.6
1 2	7 46.16	+29 51.5	1.459	2.422	6.0	19.3
1 12	7 34.93	+29 44.6	1.436	2.413	3.3	19.1
1 22	7 23.51	+29 24.7	1.440	2.404	6.0	19.3
2 1	7 13.47	+28 51.8	1.471	2.396	10.4	19.5
2 11	7 6.11	+28 8.9	1.526	2.388	14.5	19.7
2 21	7 2.09	+27 19.8	1.601	2.380	18.0	19.9

8358 Rickblakley 1 12.8 22.°94 0.°5/12.7 18

12 13	7 59.61	+22 1.6	1.101	1.977	17.5	17.5
12 23	7 54.11	+22 10.0	1.053	1.986	12.4	17.2
1 2	7 45.38	+22 23.4	1.026	1.995	6.6	17.0
1 12	7 34.87	+22 37.0	1.023	2.006	0.6	16.6
1 22	7 24.40	+22 46.6	1.045	2.018	5.7	17.0
2 1	7 15.78	+22 49.9	1.091	2.031	11.3	17.3
2 11	7 10.34	+22 47.0	1.158	2.045	16.2	17.6
2 21	7 8.64	+22 38.6	1.244	2.060	20.1	17.9

302511 2002 GJ_{190} 1 12.8 324.°52 8.°0/14.8 18

12 13	7 58.52	+ 4 17.8	1.483	2.303	17.0	20.2
12 23	7 52.82	+ 3 22.0	1.412	2.298	13.6	19.9
1 2	7 44.60	+ 2 45.8	1.362	2.293	10.3	19.7
1 12	7 34.83	+ 2 32.5	1.337	2.289	8.2	19.6
1 22	7 24.79	+ 2 42.4	1.338	2.284	8.8	19.6
2 1	7 15.87	+ 3 12.8	1.364	2.281	11.8	19.8
2 11	7 9.25	+ 3 58.4	1.413	2.277	15.3	20.0
2 21	7 5.62	+ 4 52.7	1.482	2.274	18.6	20.2

495469 2014 TE_{75} 1 12.8 79.°94 1.°7/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 58.39	+15 42.0	1.830	2.672	13.2	21.2
12 23	7 52.29	+15 58.0	1.768	2.683	9.5	21.0
1 2	7 44.12	+16 23.1	1.731	2.693	5.4	20.8
1 12	7 34.78	+16 54.6	1.723	2.704	1.8	20.6
1 22	7 25.38	+17 29.2	1.743	2.714	4.2	20.8
2 1	7 17.05	+18 3.7	1.792	2.725	8.2	21.0
2 11	7 10.71	+18 35.7	1.867	2.735	11.9	21.3
2 21	7 6.92	+19 3.7	1.963	2.746	15.0	21.5

172700 2004 BJ_{24} 1 12.8 90.°80 0.°3/12.9 18

12 13	8 3.39	+20 32.3	1.746	2.591	13.6	19.9
12 23	7 55.72	+20 35.7	1.697	2.616	9.6	19.7
1 2	7 45.87	+20 42.8	1.674	2.639	5.1	19.5
1 12	7 34.91	+20 50.6	1.680	2.663	0.5	19.2
1 22	7 24.11	+20 56.6	1.714	2.686	4.2	19.5
2 1	7 14.70	+20 59.6	1.778	2.708	8.5	19.8
2 11	7 7.61	+20 59.2	1.868	2.730	12.2	20.1
2 21	7 3.32	+20 55.9	1.979	2.752	15.2	20.3

210307 2007 TJ_{151} 1 12.8 119.°67 1.°0/13.2 18

12 13	7 57.38	+18 3.9	2.377	3.214	10.7	20.6
12 23	7 51.22	+18 3.9	2.309	3.222	7.7	20.4
1 2	7 43.43	+18 8.6	2.268	3.230	4.3	20.2
1 12	7 34.74	+18 16.2	2.256	3.238	1.1	20.0
1 22	7 26.00	+18 25.1	2.275	3.246	3.4	20.2
2 1	7 18.10	+18 33.9	2.324	3.253	6.8	20.4
2 11	7 11.78	+18 41.4	2.400	3.260	9.9	20.6
2 21	7 7.50	+18 47.2	2.499	3.267	12.5	20.8

102472 1999 TT_{242} 1 12.8 56.°06 1.°2/13.3 18

12 13	7 59.76	+15 49.7	1.401	2.255	15.8	18.4
12 23	7 53.67	+16 34.6	1.352	2.273	11.3	18.1
1 2	7 44.98	+17 32.0	1.326	2.290	6.3	17.9
1 12	7 34.86	+18 36.4	1.326	2.308	1.4	17.6
1 22	7 24.72	+19 41.4	1.354	2.326	4.8	17.9
2 1	7 16.03	+20 41.5	1.409	2.345	9.7	18.2
2 11	7 9.89	+21 33.3	1.488	2.364	13.9	18.5
2 21	7 6.89	+22 15.4	1.588	2.382	17.4	18.8

49206 1998 SR_{118} 1 12.8 74.°92 1.°5/13.3 18

12 13	7 59.58	+16 56.6	1.648	2.497	14.1	18.9
12 23	7 53.36	+17 6.0	1.585	2.503	10.2	18.6
1 2	7 44.78	+17 23.9	1.545	2.509	5.7	18.4
1 12	7 34.86	+17 47.7	1.533	2.515	1.6	18.1
1 22	7 24.83	+18 14.0	1.549	2.521	4.5	18.4
2 1	7 15.99	+18 39.8	1.593	2.527	9.0	18.6
2 11	7 9.39	+19 3.0	1.662	2.533	13.0	18.9
2 21	7 5.63	+19 22.5	1.752	2.539	16.3	19.1

162185 1999 NK_{27} 1 12.8 60.°26 0.°5/13.0 17

12 13	8 1.79	+16 30.7	1.348	2.202	16.3	18.9
12 23	7 55.08	+17 36.7	1.308	2.230	11.5	18.7
1 2	7 45.70	+18 54.2	1.292	2.258	6.2	18.5
1 12	7 34.92	+20 16.0	1.303	2.286	0.8	18.2
1 22	7 24.26	+21 34.3	1.341	2.314	4.9	18.6
2 1	7 15.21	+22 43.3	1.407	2.342	9.9	18.9
2 11	7 8.89	+23 39.9	1.497	2.370	14.1	19.3
2 21	7 5.81	+24 23.9	1.608	2.397	17.4	19.5

131251 2001 FY_{13} 1 12.8 14.°79 1.°1/12.4 18

12 13	7 58.26	+23 35.0	1.962	2.814	12.0	19.4
12 23	7 52.26	+24 1.9	1.893	2.815	8.5	19.2
1 2	7 44.15	+24 30.9	1.849	2.815	4.6	19.0
1 12	7 34.82	+24 58.1	1.834	2.816	1.2	18.7
1 22	7 25.34	+25 20.2	1.848	2.817	4.3	19.0
2 1	7 16.86	+25 35.0	1.890	2.818	8.2	19.2
2 11	7 10.35	+25 42.2	1.959	2.819	11.8	19.4
2 21	7 6.38	+25 42.5	2.049	2.820	14.8	19.6

162451 2000 GB_{180} 1 12.8 204.°45 4.°8/10.5 18

12 13	8 0.58	+36 24.1	2.531	3.367	10.2	20.5
12 23	7 53.75	+37 13.3	2.461	3.364	7.8	20.3
1 2	7 44.91	+37 55.4	2.417	3.360	5.6	20.2
1 12	7 34.88	+38 25.4	2.403	3.357	4.8	20.1
1 22	7 24.69	+38 40.1	2.418	3.353	6.2	20.2
2 1	7 15.40	+38 38.6	2.462	3.349	8.6	20.4
2 11	7 7.96	+38 22.6	2.531	3.344	11.0	20.5
2 21	7 2.93	+37 55.3	2.622	3.340	13.2	20.7

397099 2005 US_{462} 1 12.8 272.°90 0.°8/12.5 18

12 13	8 1.50	+21 22.5	1.427	2.286	15.3	21.5
12 23	7 55.35	+22 0.0	1.350	2.275	10.9	21.2
1 2	7 46.16	+22 44.8	1.296	2.264	5.9	20.9
1 12	7 35.00	+23 31.2	1.269	2.252	0.9	20.5
1 22	7 23.37	+24 13.1	1.270	2.241	5.4	20.8
2 1	7 12.97	+24 46.3	1.297	2.229	10.7	21.1
2 11	7 5.26	+25 9.2	1.347	2.218	15.4	21.3
2 21	7 1.07	+25 22.4	1.417	2.206	19.4	21.6

421406 2013 VS_{19} 1 12.8 15.°90 4.°2/11.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 58.57	+31 2.6	1.907	2.762	12.2	20.0
12 23	7 52.67	+32 0.3	1.846	2.765	8.9	19.8
1 2	7 44.45	+32 54.4	1.810	2.768	5.7	19.7
1 12	7 34.85	+33 38.8	1.801	2.771	4.2	19.6
1 22	7 25.10	+34 8.7	1.821	2.774	6.2	19.7
2 1	7 16.47	+34 22.5	1.869	2.778	9.5	19.9
2 11	7 10.01	+34 21.3	1.941	2.783	12.7	20.1
2 21	7 6.34	+34 7.8	2.033	2.787	15.4	20.3

181135 2005 QW_{150} 1 12.8 194.°47 2.°0/13.7 18

12 13	7 58.64	+14 19.3	2.293	3.121	11.4	21.3
12 23	7 52.26	+14 30.2	2.212	3.119	8.3	21.1
1 2	7 44.08	+14 49.5	2.158	3.116	4.9	20.9
1 12	7 34.83	+15 15.3	2.134	3.113	2.1	20.7
1 22	7 25.40	+15 45.2	2.140	3.109	3.8	20.8
2 1	7 16.74	+16 16.9	2.176	3.104	7.3	21.0
2 11	7 9.67	+16 48.0	2.240	3.099	10.5	21.2
2 21	7 4.76	+17 17.0	2.327	3.094	13.4	21.4

346110 2007 VA_{92} 1 12.8 197.°39 8.°6/16.2 18

12 13	7 56.16	− 9 23.0	2.896	3.603	12.2	20.9
12 23	7 50.22	−10 29.2	2.818	3.601	10.7	20.8
1 2	7 42.89	−11 18.0	2.763	3.598	9.5	20.7
1 12	7 34.74	−11 46.5	2.734	3.594	8.7	20.7
1 22	7 26.44	−11 53.7	2.731	3.590	8.8	20.7
2 1	7 18.68	−11 40.5	2.755	3.586	9.6	20.7
2 11	7 12.11	−11 9.8	2.803	3.582	11.0	20.8
2 21	7 7.20	−10 26.0	2.873	3.577	12.4	20.9

284429 2007 DC_{4} 1 12.8 246.°48 0.°5/12.9 18

12 13	8 3.13	+20 11.6	1.533	2.385	14.8	20.7
12 23	7 56.25	+20 11.8	1.454	2.375	10.7	20.5
1 2	7 46.54	+20 17.2	1.399	2.365	5.8	20.2
1 12	7 35.03	+20 24.5	1.371	2.354	0.7	19.8
1 22	7 23.18	+20 30.8	1.371	2.343	4.9	20.1
2 1	7 12.55	+20 34.0	1.399	2.332	10.1	20.3
2 11	7 4.48	+20 33.7	1.451	2.321	14.6	20.6
2 21	6 59.72	+20 30.3	1.523	2.309	18.4	20.8

480086 2015 DT_{214} 1 12.8 321.°98 19.°0/15.0 18

12 13	8 0.25	− 8 2.2	0.989	1.786	25.1	21.0
12 23	7 55.01	−10 42.5	0.933	1.778	22.5	20.8
1 2	7 46.19	−12 46.5	0.892	1.770	20.3	20.6
1 12	7 35.02	−14 0.1	0.870	1.764	19.0	20.5
1 22	7 23.29	−14 15.6	0.865	1.757	19.4	20.5
2 1	7 13.05	−13 34.2	0.878	1.751	21.1	20.6
2 11	7 6.04	−12 6.9	0.906	1.746	23.8	20.7
2 21	7 3.19	−10 9.5	0.949	1.742	26.6	20.9

273321 2006 TZ_{20} 1 12.8 121.°10 1.°1/12.4 18

12 13	8 1.90	+23 33.1	2.020	2.865	12.1	21.9
12 23	7 54.65	+24 3.5	1.962	2.881	8.5	21.7
1 2	7 45.35	+24 35.3	1.931	2.897	4.5	21.5
1 12	7 34.94	+25 4.4	1.930	2.912	1.2	21.3
1 22	7 24.52	+25 27.4	1.958	2.927	4.2	21.6
2 1	7 15.22	+25 42.7	2.016	2.941	8.0	21.8
2 11	7 7.97	+25 50.1	2.101	2.954	11.4	22.1
2 21	7 3.29	+25 50.8	2.207	2.967	14.2	22.3

119325 2001 SP_{125} 1 12.8 240.°18 2.°8/13.6 18

12 13	8 1.33	+14 26.9	1.568	2.411	15.0	20.3
12 23	7 54.86	+14 21.0	1.490	2.403	11.1	20.1
1 2	7 45.75	+14 26.1	1.435	2.395	6.6	19.8
1 12	7 34.98	+14 40.7	1.408	2.386	3.0	19.5
1 22	7 23.89	+15 2.2	1.408	2.378	5.2	19.7
2 1	7 13.90	+15 27.7	1.436	2.368	9.9	19.9
2 11	7 6.28	+15 54.3	1.488	2.359	14.2	20.1
2 21	7 1.73	+16 19.8	1.561	2.349	17.9	20.4

488094 2015 VE_{62} 1 12.8 216.°81 3.°1/13.7 18

12 13	8 1.70	+13 53.9	1.618	2.457	14.8	21.7
12 23	7 55.01	+13 44.2	1.542	2.453	11.0	21.5
1 2	7 45.78	+13 45.5	1.489	2.447	6.6	21.2
1 12	7 34.98	+13 56.5	1.464	2.442	3.2	21.0
1 22	7 23.91	+14 14.9	1.467	2.436	5.3	21.1
2 1	7 13.96	+14 38.1	1.498	2.429	9.7	21.3
2 11	7 6.30	+15 3.2	1.554	2.423	13.8	21.6
2 21	7 1.65	+15 27.9	1.630	2.415	17.4	21.8

145148 2005 GR_{176} 1 12.8 202.°02 0.°1/12.9 18

12 13	7 59.83	+19 17.7	1.827	2.674	13.0	20.4
12 23	7 53.52	+19 51.5	1.753	2.673	9.3	20.2
1 2	7 44.92	+20 32.3	1.705	2.671	5.0	19.9
1 12	7 34.92	+21 16.0	1.685	2.668	0.4	19.6
1 22	7 24.68	+21 58.2	1.694	2.666	4.2	19.9
2 1	7 15.44	+22 35.6	1.732	2.663	8.6	20.1
2 11	7 8.28	+23 6.1	1.796	2.660	12.5	20.3
2 21	7 3.84	+23 29.5	1.882	2.657	15.8	20.6

412910 2014 QE_{122} 1 12.8 176.°31 0.°2/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 1.52	+20 58.7	2.030	2.872	12.1	21.9
12 23	7 54.49	+21 18.8	1.958	2.875	8.6	21.6
1 2	7 45.34	+21 42.7	1.911	2.876	4.6	21.4
1 12	7 34.95	+22 6.9	1.894	2.878	0.4	21.1
1 22	7 24.41	+22 28.4	1.908	2.878	4.0	21.4
2 1	7 14.87	+22 45.1	1.951	2.878	8.0	21.6
2 11	7 7.30	+22 56.3	2.020	2.878	11.6	21.8
2 21	7 2.27	+23 2.2	2.112	2.876	14.6	22.0

378812 2008 SL_{212} 1 12.8 210.°48 3.°3/11.4 17

12 13	8 0.77	+31 3.9	2.459	3.300	10.3	21.4
12 23	7 53.86	+31 42.1	2.381	3.294	7.5	21.2
1 2	7 44.99	+32 16.7	2.331	3.287	4.7	21.0
1 12	7 34.93	+32 43.2	2.310	3.280	3.3	20.9
1 22	7 24.69	+32 58.5	2.319	3.273	5.0	21.0
2 1	7 15.29	+33 1.3	2.358	3.265	8.0	21.2
2 11	7 7.67	+32 52.6	2.424	3.257	10.8	21.4
2 21	7 2.39	+32 34.6	2.512	3.248	13.3	21.5

355954 2008 YW_{128} 1 12.8 354.°07 1.°5/12.5 18

12 13	8 1.33	+24 36.1	1.282	2.150	16.1	20.6
12 23	7 55.29	+24 44.4	1.219	2.148	11.5	20.3
1 2	7 46.10	+24 53.7	1.177	2.145	6.2	20.0
1 12	7 35.04	+24 59.2	1.161	2.144	1.5	19.7
1 22	7 23.80	+24 57.1	1.171	2.142	5.7	20.0
2 1	7 14.16	+24 46.2	1.207	2.142	11.0	20.3
2 11	7 7.51	+24 27.8	1.265	2.142	15.8	20.5
2 21	7 4.52	+24 3.9	1.342	2.143	19.7	20.8

76673 2000 HL_{56} 1 12.8 119.°46 0.°0/12.8 18

12 13	7 57.25	+20 32.8	2.611	3.449	9.9	19.7
12 23	7 51.05	+20 54.6	2.548	3.464	7.0	19.5
1 2	7 43.35	+21 19.5	2.513	3.478	3.7	19.4
1 12	7 34.83	+21 44.9	2.508	3.492	0.3	19.1
1 22	7 26.27	+22 8.6	2.535	3.505	3.1	19.4
2 1	7 18.49	+22 28.7	2.591	3.518	6.3	19.6
2 11	7 12.18	+22 44.4	2.676	3.531	9.2	19.8
2 21	7 7.78	+22 55.7	2.784	3.543	11.6	20.0

450968 2008 QA_{32} 1 12.8 59.°24 2.°2/13.3 17

12 13	8 3.52	+17 23.1	1.238	2.096	17.2	20.9
12 23	7 56.45	+17 3.1	1.192	2.114	12.4	20.6
1 2	7 46.50	+16 52.2	1.169	2.133	7.0	20.4
1 12	7 35.07	+16 48.4	1.170	2.152	2.3	20.2
1 22	7 23.81	+16 49.2	1.199	2.171	5.5	20.4
2 1	7 14.36	+16 52.7	1.253	2.190	10.6	20.8
2 11	7 7.87	+16 57.2	1.330	2.209	15.0	21.1
2 21	7 4.85	+17 1.4	1.427	2.229	18.7	21.4

413098 2001 UW_{91} 1 12.8 120.°48 5.°1/10.5 18

12 13	8 3.09	+33 38.1	2.010	2.855	12.1	20.9
12 23	7 55.83	+34 52.4	1.956	2.867	9.0	20.8
1 2	7 46.15	+36 0.6	1.928	2.879	6.2	20.6
1 12	7 35.06	+36 55.4	1.929	2.890	5.1	20.6
1 22	7 23.84	+37 32.1	1.959	2.901	6.9	20.7
2 1	7 13.82	+37 49.3	2.017	2.912	9.8	20.9
2 11	7 6.11	+37 48.8	2.100	2.922	12.7	21.1
2 21	7 1.30	+37 34.6	2.203	2.932	15.1	21.3

503478 2016 EF_{162} 1 12.8 229.°53 1.°0/12.4 17

12 13	7 59.36	+23 59.1	2.305	3.149	10.8	21.8
12 23	7 52.89	+24 18.0	2.222	3.140	7.7	21.6
1 2	7 44.50	+24 38.0	2.165	3.130	4.1	21.3
1 12	7 34.94	+24 55.9	2.138	3.121	1.0	21.1
1 22	7 25.16	+25 9.1	2.142	3.111	3.9	21.3
2 1	7 16.20	+25 16.0	2.175	3.100	7.5	21.5
2 11	7 8.95	+25 16.5	2.236	3.089	10.8	21.7
2 21	7 4.00	+25 11.3	2.319	3.078	13.6	21.9

503701 2016 JF_{11} 1 12.8 239.°87 1.°1/12.2 17

12 13	7 56.90	+22 42.0	2.414	3.259	10.3	21.5
12 23	7 51.12	+23 29.6	2.333	3.252	7.3	21.3
1 2	7 43.54	+24 20.7	2.280	3.245	3.9	21.1
1 12	7 34.86	+25 11.4	2.256	3.238	1.1	20.9
1 22	7 25.94	+25 57.8	2.264	3.231	3.8	21.1
2 1	7 17.72	+26 37.1	2.301	3.224	7.2	21.3
2 11	7 11.04	+27 8.0	2.365	3.217	10.4	21.5
2 21	7 6.48	+27 30.6	2.452	3.209	13.0	21.6

18828 1999 NT_{27} 1 12.8 174.°35 0.°4/12.6 18

12 13	7 56.09	+22 2.8	2.786	3.626	9.3	19.2
12 23	7 50.26	+22 23.7	2.711	3.627	6.5	19.1
1 2	7 42.96	+22 46.7	2.663	3.628	3.5	18.9
1 12	7 34.82	+23 9.3	2.646	3.629	0.5	18.6
1 22	7 26.57	+23 29.6	2.660	3.630	3.1	18.8
2 1	7 18.99	+23 45.8	2.705	3.631	6.2	19.0
2 11	7 12.76	+23 57.3	2.777	3.631	8.9	19.2
2 21	7 8.33	+24 4.2	2.874	3.631	11.3	19.4

131452 2001 QV_{186} 1 12.8 171°.08 3°.5/14.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 55.19	+ 8 53.2	2.478	3.293	11.1	20.4
12 23	7 49.71	+ 8 57.7	2.402	3.294	8.4	20.3
1 2	7 42.70	+ 9 13.5	2.351	3.295	5.6	20.1
1 12	7 34.81	+ 9 39.9	2.328	3.296	3.6	20.0
1 22	7 26.79	+10 14.9	2.336	3.297	4.4	20.0
2 1	7 19.43	+10 56.0	2.373	3.297	7.0	20.2
2 11	7 13.46	+11 40.1	2.438	3.298	9.8	20.4
2 21	7 9.35	+12 24.6	2.526	3.298	12.3	20.5

219332 2000 LA_{3} 1 12.8 161°.00 2°.6/14.3 18

12 13	7 57.90	+10 12.7	2.780	3.589	10.2	21.3
12 23	7 51.46	+10 35.9	2.705	3.597	7.6	21.2
1 2	7 43.58	+11 8.8	2.657	3.605	4.8	21.0
1 12	7 34.88	+11 49.9	2.640	3.612	2.7	20.9
1 22	7 26.07	+12 36.7	2.655	3.619	3.6	21.0
2 1	7 17.91	+13 26.5	2.701	3.624	6.3	21.1
2 11	7 11.06	+14 16.5	2.776	3.629	8.9	21.3
2 21	7 5.96	+15 4.7	2.876	3.633	11.3	21.5

463246 2012 FO_{36} 1 12.8 233°.23 4°.1/11.1 17

12 13	8 2.65	+33 19.4	2.335	3.174	10.9	21.7
12 23	7 55.39	+34 0.4	2.251	3.161	8.1	21.5
1 2	7 45.91	+34 36.1	2.195	3.147	5.3	21.3
1 12	7 35.06	+35 1.3	2.168	3.133	4.1	21.2
1 22	7 23.94	+35 12.4	2.170	3.118	5.8	21.3
2 1	7 13.72	+35 8.2	2.202	3.103	8.8	21.5
2 11	7 5.45	+34 50.2	2.260	3.087	11.7	21.6
2 21	6 59.78	+34 21.8	2.340	3.071	14.3	21.8

92289 2000 EH_{49} 1 12.8 197°.83 3°.5/11.6 18

12 13	8 5.33	+29 33.0	1.859	2.705	12.9	20.6
12 23	7 57.57	+30 14.5	1.786	2.702	9.3	20.3
1 2	7 47.16	+30 52.9	1.739	2.699	5.6	20.1
1 12	7 35.16	+31 22.1	1.720	2.694	3.5	20.0
1 22	7 22.92	+31 37.5	1.731	2.689	5.9	20.1
2 1	7 11.89	+31 37.9	1.770	2.684	9.7	20.3
2 11	7 3.28	+31 24.8	1.835	2.677	13.3	20.5
2 21	6 57.77	+31 1.7	1.921	2.670	16.4	20.7

352676 2008 RO_{107} 1 12.8 345°.01 5°.8/11.2 18

12 13	8 3.79	+32 25.6	1.326	2.191	15.9	20.7
12 23	7 57.25	+33 21.1	1.265	2.188	11.8	20.4
1 2	7 47.26	+34 10.3	1.227	2.185	7.7	20.2
1 12	7 35.17	+34 43.9	1.214	2.183	5.8	20.1
1 22	7 22.84	+34 55.7	1.227	2.182	8.3	20.2
2 1	7 12.24	+34 44.4	1.264	2.180	12.5	20.4
2 11	7 4.92	+34 14.1	1.324	2.179	16.7	20.7
2 21	7 1.57	+33 30.5	1.402	2.179	20.2	20.9

229593 2006 BX_{189} 1 12.8 353°.46 1°.0/12.4 18

12 13	7 58.32	+23 0.3	1.941	2.793	12.2	20.7
12 23	7 52.37	+23 30.5	1.871	2.792	8.6	20.5
1 2	7 44.29	+24 3.7	1.826	2.792	4.6	20.2
1 12	7 34.94	+24 35.7	1.809	2.792	1.0	20.0
1 22	7 25.42	+25 2.9	1.822	2.791	4.3	20.2
2 1	7 16.89	+25 22.9	1.863	2.791	8.3	20.5
2 11	7 10.33	+25 35.1	1.930	2.791	11.9	20.7
2 21	7 6.34	+25 40.0	2.018	2.791	14.9	20.9

179019 2001 RD_{83} 1 12.8 109°.85 1°.5/13.3 18

12 13	8 0.41	+16 55.1	1.940	2.779	12.7	20.5
12 23	7 53.62	+16 57.5	1.880	2.793	9.1	20.3
1 2	7 44.84	+17 6.7	1.845	2.807	5.1	20.1
1 12	7 34.98	+17 20.6	1.839	2.821	1.6	19.9
1 22	7 25.12	+17 36.7	1.863	2.834	4.0	20.1
2 1	7 16.35	+17 53.0	1.916	2.847	7.9	20.3
2 11	7 9.54	+18 8.0	1.996	2.860	11.4	20.6
2 21	7 5.23	+18 20.8	2.098	2.872	14.4	20.8

415886 2001 TY_{25} 1 12.8 114°.85 1°.2/12.4 18

12 13	8 2.51	+24 32.2	2.240	3.080	11.2	22.2
12 23	7 54.89	+24 53.9	2.187	3.103	7.9	22.0
1 2	7 45.43	+25 15.5	2.160	3.125	4.2	21.8
1 12	7 35.03	+25 33.6	2.164	3.146	1.2	21.6
1 22	7 24.70	+25 45.6	2.199	3.167	3.9	21.9
2 1	7 15.46	+25 50.5	2.265	3.187	7.4	22.1
2 11	7 8.12	+25 48.7	2.357	3.206	10.5	22.4
2 21	7 3.16	+25 41.5	2.472	3.225	13.0	22.6

32429 2000 RP_{83} 1 12.8 263°.55 3°.2/14.2 18

12 13	7 55.19	+10 53.4	2.448	3.270	11.0	18.9
12 23	7 49.75	+10 41.4	2.368	3.266	8.3	18.7
1 2	7 42.74	+10 38.8	2.314	3.263	5.4	18.5
1 12	7 34.83	+10 45.2	2.289	3.260	3.3	18.4
1 22	7 26.78	+10 59.3	2.294	3.256	4.3	18.4
2 1	7 19.40	+11 19.5	2.327	3.253	7.1	18.6
2 11	7 13.44	+11 43.5	2.388	3.249	9.9	18.8
2 21	7 9.36	+12 9.1	2.473	3.246	12.5	19.0

51865 2001 PR_{2} 1 12.8 115°.73 0°.8/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 53.86	+24 0.6	3.245	4.086	8.1	19.3
12 23	7 48.53	+24 19.9	3.176	4.093	5.7	19.1
1 2	7 41.99	+24 39.7	3.134	4.099	3.0	19.0
1 12	7 34.77	+24 58.1	3.124	4.106	0.8	18.8
1 22	7 27.50	+25 13.3	3.144	4.112	2.8	19.0
2 1	7 20.81	+25 24.2	3.195	4.118	5.4	19.1
2 11	7 15.26	+25 30.5	3.274	4.124	7.8	19.3
2 21	7 11.25	+25 32.2	3.378	4.130	9.8	19.5

227776 2006 VO_{124} 1 12.8 182°.79 3°.9/11.5 18

12 13	8 5.47	+28 9.4	1.496	2.352	14.9	21.4
12 23	7 58.12	+29 11.0	1.431	2.352	10.7	21.1
1 2	7 47.63	+30 11.9	1.390	2.353	6.4	20.9
1 12	7 35.22	+31 3.7	1.377	2.353	3.9	20.7
1 22	7 22.52	+31 39.6	1.391	2.352	6.8	20.9
2 1	7 11.29	+31 57.0	1.433	2.351	11.2	21.1
2 11	7 2.97	+31 57.5	1.498	2.349	15.3	21.4
2 21	6 58.29	+31 44.9	1.582	2.347	18.7	21.6

233101 2005 SE_{78} 1 12.8 50°.80 3°.7/13.9 17

12 13	8 0.52	+12 39.8	1.212	2.066	17.8	20.0
12 23	7 54.52	+12 41.8	1.160	2.077	13.1	19.8
1 2	7 45.61	+13 0.6	1.129	2.089	8.0	19.5
1 12	7 35.06	+13 33.6	1.123	2.101	3.9	19.3
1 22	7 24.47	+14 16.4	1.143	2.114	6.0	19.5
2 1	7 15.47	+15 3.7	1.189	2.127	10.9	19.8
2 11	7 9.33	+15 50.4	1.257	2.140	15.4	20.1
2 21	7 6.64	+16 33.3	1.344	2.153	19.2	20.4

110926 2001 UY_{145} 1 12.8 131°.41 1°.4/13.4 18

12 13	7 59.39	+16 39.3	2.021	2.860	12.3	20.6
12 23	7 52.92	+16 49.3	1.955	2.868	8.9	20.4
1 2	7 44.50	+17 6.5	1.915	2.877	5.0	20.2
1 12	7 34.97	+17 28.5	1.903	2.885	1.5	20.0
1 22	7 25.38	+17 52.7	1.921	2.892	3.9	20.2
2 1	7 16.75	+18 16.6	1.969	2.900	7.8	20.4
2 11	7 9.99	+18 38.6	2.043	2.907	11.2	20.7
2 21	7 5.63	+18 57.5	2.140	2.913	14.2	20.9

27202 1999 CU_{70} 1 12.8 186°.07 3°.5/14.5 18

12 13	7 55.39	+ 9 3.0	2.451	3.266	11.2	18.4
12 23	7 49.88	+ 9 6.2	2.373	3.266	8.5	18.2
1 2	7 42.82	+ 9 20.6	2.321	3.266	5.7	18.1
1 12	7 34.85	+ 9 45.7	2.297	3.265	3.6	17.9
1 22	7 26.74	+10 19.5	2.303	3.264	4.4	18.0
2 1	7 19.31	+10 59.4	2.339	3.264	7.1	18.1
2 11	7 13.27	+11 42.4	2.402	3.263	9.9	18.3
2 21	7 9.12	+12 25.9	2.489	3.261	12.4	18.5

250197 2002 UL_{36} 1 12.8 130°.46 12°.5/18.3 18

12 13	7 59.09	−14 34.6	2.100	2.789	16.7	21.3
12 23	7 52.66	−15 53.9	2.042	2.800	15.1	21.2
1 2	7 44.35	−16 45.7	2.004	2.811	13.6	21.1
1 12	7 34.97	−17 5.6	1.988	2.821	12.6	21.1
1 22	7 25.48	−16 52.4	1.995	2.831	12.5	21.1
2 1	7 16.88	−16 8.4	2.025	2.841	13.2	21.2
2 11	7 10.02	−14 59.8	2.078	2.850	14.5	21.3
2 21	7 5.46	−13 34.1	2.150	2.858	16.0	21.4

462768 2010 EB_{81} 1 12.8 164°.45 3°.7/11.2 18

12 13	7 59.93	+33 14.6	2.516	3.356	10.1	21.7
12 23	7 53.21	+33 48.4	2.448	3.359	7.5	21.5
1 2	7 44.63	+34 16.7	2.408	3.361	4.9	21.4
1 12	7 35.00	+34 35.3	2.397	3.363	3.7	21.3
1 22	7 25.28	+34 41.7	2.416	3.365	5.2	21.4
2 1	7 16.49	+34 35.2	2.464	3.366	7.9	21.6
2 11	7 9.45	+34 17.3	2.538	3.367	10.5	21.7
2 21	7 4.71	+33 50.5	2.635	3.369	12.8	21.9

270499 2002 EY_{146} 1 12.8 158°.09 2°.7/13.9 18

12 13	7 57.23	+12 43.2	1.967	2.801	12.8	20.8
12 23	7 51.50	+12 53.9	1.894	2.801	9.5	20.5
1 2	7 43.80	+13 16.0	1.845	2.802	5.8	20.3
1 12	7 34.94	+13 47.4	1.825	2.802	2.8	20.1
1 22	7 25.91	+14 25.5	1.834	2.802	4.4	20.2
2 1	7 17.76	+15 6.9	1.871	2.802	8.0	20.5
2 11	7 11.40	+15 48.5	1.935	2.803	11.6	20.7
2 21	7 7.41	+16 27.7	2.021	2.803	14.6	20.9

356306 2010 GQ_{116} 1 12.8 326°.86 4°.8/14.1 18

12 13	7 59.15	+10 58.0	1.356	2.202	16.8	20.2
12 23	7 53.56	+10 37.1	1.286	2.197	12.7	19.9
1 2	7 45.18	+10 32.1	1.237	2.191	8.3	19.6
1 12	7 35.07	+10 43.3	1.213	2.186	5.0	19.4
1 22	7 24.65	+11 8.4	1.215	2.182	6.5	19.5
2 1	7 15.48	+11 43.7	1.243	2.177	10.9	19.7
2 11	7 8.85	+12 24.7	1.294	2.173	15.3	20.0
2 21	7 5.50	+13 6.8	1.364	2.170	19.2	20.2

111371 2001 XY_{136} 1 12.8 295°.11 2°.2/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 56.88	+26 43.9	2.366	3.215	10.4	19.7
12 23	7 51.17	+27 31.0	2.292	3.212	7.4	19.5
1 2	7 43.61	+28 18.3	2.245	3.209	4.2	19.3
1 12	7 34.94	+29 1.5	2.228	3.205	2.2	19.1
1 22	7 26.08	+29 37.0	2.240	3.202	4.4	19.3
2 1	7 17.99	+30 2.5	2.282	3.199	7.6	19.5
2 11	7 11.55	+30 17.8	2.350	3.196	10.6	19.6
2 21	7 7.31	+30 23.7	2.440	3.193	13.2	19.8

93833 2000 WL_{78} 1 12.8 10°.80 2°.6/11.9 18

12 13	8 0.01	+27 23.6	1.849	2.703	12.6	19.6
12 23	7 53.72	+27 58.4	1.781	2.703	9.0	19.4
1 2	7 45.08	+28 32.2	1.740	2.704	5.1	19.2
1 12	7 35.07	+28 59.8	1.726	2.704	2.6	19.0
1 22	7 24.90	+29 17.4	1.741	2.705	5.2	19.2
2 1	7 15.86	+29 23.4	1.783	2.705	9.1	19.4
2 11	7 9.03	+29 18.4	1.851	2.706	12.6	19.6
2 21	7 5.00	+29 4.6	1.940	2.707	15.7	19.9

256173 2006 VM_{65} 1 12.8 56°.22 0°.8/13.1 18

12 13	7 59.88	+18 38.8	1.579	2.432	14.4	20.4
12 23	7 53.65	+18 50.3	1.522	2.443	10.3	20.2
1 2	7 45.02	+19 8.8	1.489	2.455	5.6	20.0
1 12	7 35.06	+19 31.1	1.484	2.466	1.0	19.7
1 22	7 25.08	+19 53.7	1.506	2.478	4.5	20.0
2 1	7 16.39	+20 14.0	1.556	2.490	9.1	20.3
2 11	7 10.05	+20 30.4	1.630	2.503	13.1	20.5
2 21	7 6.63	+20 42.3	1.726	2.515	16.4	20.8

226852 2004 SC_{57} 1 12.8 111°.64 1°.4/13.5 18

12 13	7 58.23	+15 59.7	2.046	2.884	12.2	20.8
12 23	7 52.11	+16 18.8	1.980	2.893	8.8	20.6
1 2	7 44.09	+16 45.9	1.941	2.902	5.0	20.4
1 12	7 34.99	+17 18.5	1.930	2.911	1.6	20.2
1 22	7 25.81	+17 53.4	1.948	2.920	3.8	20.3
2 1	7 17.56	+18 27.9	1.997	2.928	7.6	20.6
2 11	7 11.11	+18 59.7	2.071	2.936	11.0	20.8
2 21	7 6.99	+19 27.4	2.169	2.944	13.9	21.0

309057 2006 UC_{284} 1 12.8 199°.17 3°.5/14.0 18

12 13	7 59.53	+11 19.0	2.131	2.953	12.4	21.2
12 23	7 53.02	+11 5.6	2.051	2.950	9.3	21.0
1 2	7 44.60	+11 2.5	1.996	2.946	6.0	20.8
1 12	7 35.04	+11 9.1	1.970	2.942	3.6	20.7
1 22	7 25.30	+11 24.1	1.974	2.937	4.8	20.7
2 1	7 16.38	+11 45.4	2.007	2.932	8.0	20.9
2 11	7 9.17	+12 10.5	2.067	2.927	11.3	21.1
2 21	7 4.24	+12 37.0	2.150	2.920	14.2	21.3

384555 2010 FO_{11} 1 12.8 190°.77 4°.1/15.0 18

12 13	7 54.88	+ 6 2.4	2.703	3.503	10.7	21.6
12 23	7 49.43	+ 6 2.8	2.622	3.502	8.3	21.4
1 2	7 42.57	+ 6 15.3	2.567	3.500	5.9	21.2
1 12	7 34.89	+ 6 39.6	2.540	3.499	4.2	21.1
1 22	7 27.07	+ 7 14.2	2.543	3.497	4.7	21.2
2 1	7 19.84	+ 7 56.7	2.577	3.494	6.9	21.3
2 11	7 13.86	+ 8 44.0	2.638	3.492	9.3	21.4
2 21	7 9.59	+ 9 33.2	2.723	3.489	11.6	21.6

455413 2003 FQ_{40} 1 12.8 307°.14 8°.4/ 9.9 18

12 13	8 4.98	+40 52.5	1.642	2.485	14.5	20.4
12 23	7 58.13	+41 53.2	1.565	2.465	11.6	20.1
1 2	7 47.84	+42 41.0	1.511	2.445	9.2	20.0
1 12	7 35.32	+43 6.2	1.482	2.425	8.5	19.9
1 22	7 22.33	+43 2.6	1.480	2.406	10.1	19.9
2 1	7 10.85	+42 29.6	1.502	2.386	13.2	20.0
2 11	7 2.49	+41 32.3	1.546	2.368	16.4	20.2
2 21	6 58.08	+40 18.4	1.609	2.349	19.4	20.4

41358 2000 AJ_{54} 1 12.8 189°.11 0°.8/12.6 18 R

12 13	8 0.19	+24 19.3	2.297	3.140	10.9	18.1
12 23	7 53.40	+24 16.2	2.222	3.139	7.7	17.9
1 2	7 44.75	+24 12.8	2.174	3.139	4.1	17.6
1 12	7 35.06	+24 6.7	2.155	3.138	0.8	17.4
1 22	7 25.30	+23 56.3	2.167	3.137	3.7	17.6
2 1	7 16.46	+23 41.4	2.209	3.135	7.3	17.8
2 11	7 9.38	+23 22.3	2.278	3.134	10.6	18.0
2 21	7 4.58	+23 0.2	2.370	3.132	13.3	18.2

109918 2001 SY_{27} 1 12.8 200°.27 6°.2/16.3 18

12 13	7 54.51	− 1 17.7	2.696	3.461	11.6	20.6
12 23	7 49.17	− 1 31.1	2.614	3.458	9.6	20.4
1 2	7 42.44	− 1 28.4	2.556	3.456	7.7	20.3
1 12	7 34.89	− 1 8.6	2.526	3.453	6.4	20.2
1 22	7 27.18	− 0 32.8	2.524	3.449	6.5	20.2
2 1	7 20.06	+ 0 16.8	2.550	3.446	8.0	20.3
2 11	7 14.16	+ 1 16.4	2.604	3.442	10.0	20.4
2 21	7 9.96	+ 2 21.8	2.681	3.438	12.0	20.5

242921 2006 OR_{19} 1 12.8 178°.51 4°.7/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 0.42	+36 30.4	2.639	3.474	9.9	20.8
12 23	7 53.63	+37 22.7	2.573	3.475	7.5	20.6
1 2	7 44.92	+38 8.2	2.534	3.476	5.4	20.5
1 12	7 35.09	+38 41.9	2.523	3.476	4.7	20.4
1 22	7 25.10	+39 0.6	2.543	3.476	6.0	20.5
2 1	7 16.00	+39 3.6	2.591	3.476	8.3	20.6
2 11	7 8.64	+38 52.2	2.665	3.475	10.6	20.8
2 21	7 3.61	+38 29.5	2.761	3.475	12.7	21.0

284820 2008 YY_{166} 1 12.8 303°.31 1°.7/13.4 18

12 13	7 57.26	+16 55.7	2.216	3.055	11.4	20.2
12 23	7 51.38	+16 40.7	2.137	3.050	8.2	19.9
1 2	7 43.71	+16 30.9	2.084	3.045	4.8	19.7
1 12	7 35.00	+16 25.6	2.060	3.040	1.8	19.5
1 22	7 26.15	+16 23.4	2.065	3.035	3.8	19.6
2 1	7 18.11	+16 23.3	2.100	3.030	7.4	19.9
2 11	7 11.71	+16 24.1	2.161	3.026	10.7	20.1
2 21	7 7.48	+16 25.2	2.246	3.021	13.5	20.2

15951 1998 BB_2 1 12.8 217°.37 1°.2/12.1 18

12 13	7 57.00	+22 53.5	2.637	3.479	9.7	17.5
12 23	7 51.13	+23 49.1	2.556	3.473	6.8	17.4
1 2	7 43.58	+24 47.9	2.503	3.468	3.7	17.1
1 12	7 35.00	+25 46.0	2.480	3.462	1.2	16.9
1 22	7 26.17	+26 39.7	2.489	3.455	3.6	17.1
2 1	7 17.96	+27 26.1	2.528	3.449	6.8	17.3
2 11	7 11.17	+28 3.8	2.595	3.442	9.7	17.5
2 21	7 6.34	+28 32.7	2.686	3.435	12.2	17.7

8496 Jandlsmith 1 12.8 52°.42 4°.7/11.2 18

12 13	8 1.13	+34 54.7	2.109	2.954	11.6	17.2
12 23	7 54.32	+35 27.7	2.051	2.961	8.7	17.0
1 2	7 45.32	+35 52.8	2.018	2.968	5.9	16.9
1 12	7 35.13	+36 5.2	2.013	2.975	4.7	16.8
1 22	7 24.93	+36 2.0	2.036	2.983	6.3	16.9
2 1	7 15.92	+35 43.2	2.088	2.990	9.1	17.1
2 11	7 9.08	+35 11.4	2.165	2.998	11.9	17.3
2 21	7 4.91	+34 30.2	2.263	3.006	14.4	17.5

484989 2009 UM_{103} 1 12.8 20°.18 2°.2/13.4 17

12 13	8 0.57	+17 2.8	1.086	1.955	18.3	21.1
12 23	7 54.95	+16 54.3	1.031	1.959	13.2	20.8
1 2	7 46.03	+16 57.4	0.997	1.963	7.5	20.5
1 12	7 35.19	+17 9.5	0.986	1.968	2.4	20.2
1 22	7 24.24	+17 26.7	1.001	1.974	5.9	20.4
2 1	7 15.03	+17 45.6	1.039	1.981	11.6	20.8
2 11	7 9.00	+18 3.5	1.099	1.988	16.6	21.1
2 21	7 6.79	+18 18.4	1.177	1.996	20.8	21.4

204131 2003 YL 1 12.8 90°.40 0°.0/12.8 18

12 13	9 36.05	+17 50.3	0.483	1.295	41.3	20.4
12 23	9 0.31	+19 27.3	0.478	1.379	28.2	20.1
1 2	8 18.43	+20 52.5	0.494	1.455	14.2	19.9
1 12	7 37.45	+21 41.0	0.540	1.524	1.0	19.5
1 22	7 4.19	+21 52.6	0.617	1.586	10.0	20.4
2 1	6 41.44	+21 43.9	0.719	1.641	18.4	21.1
2 11	6 28.49	+21 29.8	0.840	1.690	24.3	21.7
2 21	6 23.27	+21 16.5	0.974	1.732	28.3	22.2

149506 2003 FF_{55} 1 12.8 269°.18 1°.0/13.2 18

12 13	7 58.89	+18 4.8	1.922	2.767	12.6	20.7
12 23	7 52.90	+18 15.1	1.836	2.753	9.1	20.4
1 2	7 44.70	+18 32.3	1.775	2.739	5.1	20.2
1 12	7 35.10	+18 53.7	1.743	2.725	1.1	19.8
1 22	7 25.18	+19 16.6	1.739	2.711	4.1	20.0
2 1	7 16.12	+19 38.4	1.765	2.697	8.4	20.3
2 11	7 8.96	+19 57.4	1.816	2.682	12.3	20.5
2 21	7 4.39	+20 12.7	1.889	2.668	15.6	20.7

8980 Heliaca 1 12.8 18°.97 5°.2/10.9 18

12 13	7 58.96	+30 21.8	1.371	2.241	15.1	17.4
12 23	7 53.60	+31 37.4	1.322	2.248	11.0	17.2
1 2	7 45.25	+32 49.6	1.296	2.257	7.0	16.9
1 12	7 35.14	+33 49.1	1.295	2.266	5.2	16.9
1 22	7 24.91	+34 29.3	1.320	2.276	7.7	17.0
2 1	7 16.25	+34 47.8	1.371	2.288	11.7	17.3
2 11	7 10.48	+34 46.4	1.444	2.300	15.5	17.6
2 21	7 8.22	+34 29.6	1.535	2.313	18.6	17.8

462075 2007 EG_{218} 1 12.8 198°.53 4°.0/11.3 18

12 13	8 1.79	+32 9.5	2.073	2.919	11.7	21.6
12 23	7 54.89	+32 48.4	2.004	2.918	8.6	21.4
1 2	7 45.70	+33 22.1	1.960	2.916	5.5	21.2
1 12	7 35.18	+33 45.4	1.946	2.915	4.0	21.1
1 22	7 24.50	+33 54.7	1.960	2.913	5.9	21.2
2 1	7 14.92	+33 49.0	2.003	2.911	9.1	21.4
2 11	7 7.48	+33 30.2	2.071	2.909	12.2	21.6
2 21	7 2.78	+33 1.5	2.161	2.907	14.9	21.8

481857 2008 XE_{47} 1 12.8 39°.98 2°.3/12.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 18.03	+25 6.2	0.946	1.809	20.9	19.7
12 23	8 7.41	+22 45.2	0.891	1.816	15.1	19.4
1 2	7 52.59	+20 12.2	0.858	1.824	8.3	19.0
1 12	7 35.71	+17 32.8	0.850	1.832	2.4	18.7
1 22	7 19.40	+14 58.3	0.871	1.842	7.3	19.1
2 1	7 6.07	+12 40.7	0.917	1.851	13.8	19.4
2 11	6 57.19	+10 46.9	0.986	1.861	19.4	19.8
2 21	6 53.09	+ 9 17.5	1.072	1.872	23.7	20.1

519329 2011 FA_{99} 1 12.8 183°.52 1°.9/11.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.95	+27 47.8	2.838	3.677	9.2	22.6
12 23	7 52.34	+28 12.1	2.763	3.678	6.5	22.4
1 2	7 44.15	+28 34.7	2.716	3.677	3.7	22.2
1 12	7 35.06	+28 52.6	2.699	3.677	1.9	22.1
1 22	7 25.86	+29 3.5	2.713	3.676	3.8	22.2
2 1	7 17.39	+29 6.4	2.759	3.674	6.6	22.4
2 11	7 10.37	+29 1.7	2.831	3.672	9.2	22.6
2 21	7 5.28	+28 50.7	2.928	3.669	11.5	22.8

405917 2006 KO_{5} 1 12.8 247°.91 3°.0/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.73	+13 55.0	1.756	2.592	14.0	21.7
12 23	7 54.32	+13 43.9	1.671	2.581	10.4	21.4
1 2	7 45.51	+13 42.8	1.611	2.568	6.3	21.2
1 12	7 35.18	+13 50.8	1.578	2.556	3.1	20.9
1 22	7 24.50	+14 6.0	1.574	2.543	5.0	21.0
2 1	7 14.78	+14 26.0	1.598	2.529	9.2	21.2
2 11	7 7.14	+14 48.3	1.648	2.515	13.3	21.5
2 21	7 2.29	+15 10.8	1.719	2.501	16.8	21.7

285340 1999 LO_{6} 1 12.8 219°.98 8°.9/17.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.21	−11 30.9	2.854	3.551	12.5	21.9
12 23	7 48.96	−12 9.0	2.772	3.545	11.1	21.8
1 2	7 42.35	−12 27.4	2.711	3.539	9.8	21.7
1 12	7 34.92	−12 23.6	2.675	3.532	9.0	21.6
1 22	7 27.33	−11 57.4	2.665	3.525	8.9	21.6
2 1	7 20.26	−11 10.5	2.680	3.518	9.7	21.6
2 11	7 14.37	−10 6.6	2.720	3.510	11.0	21.7
2 21	7 10.11	− 8 50.8	2.782	3.502	12.5	21.8

124921 2001 TO_{69} 1 12.8 352°.55 5°.0/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.14	+11 37.4	1.125	1.986	18.4	19.4
12 23	7 52.52	+11 15.2	1.061	1.980	13.9	19.1
1 2	7 44.78	+11 11.0	1.017	1.976	8.9	18.8
1 12	7 35.12	+11 25.0	0.997	1.972	5.2	18.6
1 22	7 25.15	+11 54.6	1.001	1.970	7.0	18.7
2 1	7 16.63	+12 35.0	1.028	1.968	11.8	18.9
2 11	7 11.00	+13 20.5	1.077	1.968	16.7	19.2
2 21	7 9.01	+14 6.0	1.144	1.969	20.9	19.5

112763 2002 PE_{141} 1 12.9 115°.74 0°.7/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.63	+24 52.2	1.818	2.662	13.2	19.4
12 23	7 57.45	+24 31.2	1.755	2.673	9.4	19.2
1 2	7 46.97	+24 8.5	1.719	2.684	5.0	18.9
1 12	7 35.28	+23 41.7	1.711	2.694	0.8	18.7
1 22	7 23.70	+23 9.9	1.734	2.704	4.3	18.9
2 1	7 13.51	+22 34.1	1.786	2.714	8.6	19.2
2 11	7 5.70	+21 56.1	1.865	2.724	12.4	19.5
2 21	7 0.78	+21 17.6	1.965	2.733	15.4	19.7

355853 2008 UH_{159} 1 12.9 44°.56 3°.1/13.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.87	+16 5.6	1.109	1.972	18.4	20.2
12 23	7 56.13	+15 36.9	1.071	1.995	13.3	20.0
1 2	7 46.42	+15 20.1	1.055	2.019	7.7	19.8
1 12	7 35.24	+15 13.7	1.063	2.043	3.2	19.6
1 22	7 24.36	+15 15.2	1.096	2.068	5.9	19.8
2 1	7 15.45	+15 22.1	1.155	2.094	11.0	20.2
2 11	7 9.66	+15 31.8	1.235	2.120	15.5	20.5
2 21	7 7.42	+15 42.0	1.334	2.146	19.2	20.9

496609 2015 EU_{53} 1 12.9 265°.94 1°.4/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.35	+17 29.5	2.305	3.143	11.0	21.1
12 23	7 51.38	+17 18.3	2.229	3.142	7.9	20.9
1 2	7 43.70	+17 12.0	2.179	3.140	4.5	20.7
1 12	7 35.04	+17 9.3	2.158	3.139	1.5	20.5
1 22	7 26.27	+17 9.0	2.168	3.138	3.6	20.6
2 1	7 18.31	+17 10.0	2.207	3.137	7.1	20.8
2 11	7 11.94	+17 11.2	2.273	3.136	10.3	21.0
2 21	7 7.67	+17 12.1	2.362	3.134	13.0	21.2

410009 2006 WP_{73} 1 12.9 50°.60 3°.5/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.77	+27 46.8	1.474	2.336	14.7	20.8
12 23	7 55.25	+28 38.3	1.427	2.352	10.5	20.6
1 2	7 45.99	+29 28.0	1.404	2.368	6.1	20.4
1 12	7 35.22	+30 8.7	1.407	2.385	3.5	20.3
1 22	7 24.49	+30 35.3	1.438	2.402	6.2	20.5
2 1	7 15.32	+30 46.3	1.496	2.419	10.4	20.8
2 11	7 8.90	+30 43.0	1.577	2.436	14.2	21.0
2 21	7 5.76	+30 28.8	1.678	2.454	17.4	21.3

216460 1250 $T\text{-}_{2}$ 1 12.9 189°.78 2°.5/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 59.32	+13 14.4	2.167	2.993	12.0	20.9
12 23	7 52.89	+13 21.6	2.088	2.992	8.9	20.7
1 2	7 44.57	+13 38.5	2.035	2.991	5.4	20.5
1 12	7 35.12	+14 3.3	2.012	2.989	2.6	20.3
1 22	7 25.49	+14 33.6	2.018	2.986	4.1	20.4
2 1	7 16.67	+15 6.9	2.055	2.983	7.6	20.6
2 11	7 9.54	+15 40.4	2.118	2.980	11.0	20.8
2 21	7 4.67	+16 12.4	2.205	2.975	13.9	21.0

223755 2004 RH_{217} 1 12.9 141°.25 1°.5/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.99	+17 6.1	2.337	3.168	11.1	20.4
12 23	7 53.14	+16 53.4	2.269	3.178	8.0	20.3
1 2	7 44.59	+16 45.6	2.227	3.187	4.6	20.1
1 12	7 35.12	+16 41.5	2.216	3.196	1.6	19.9
1 22	7 25.63	+16 39.9	2.235	3.205	3.6	20.0
2 1	7 17.02	+16 39.7	2.285	3.213	7.0	20.2
2 11	7 10.07	+16 40.0	2.362	3.220	10.1	20.5
2 21	7 5.26	+16 40.2	2.462	3.227	12.8	20.7

466405 2013 SQ_{68} 1 12.9 84°.39 2°.6/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.25	+12 48.2	2.047	2.879	12.4	21.6
12 23	7 51.42	+12 57.7	1.983	2.889	9.2	21.4
1 2	7 43.76	+13 17.6	1.943	2.899	5.6	21.2
1 12	7 35.08	+13 46.2	1.933	2.909	2.7	21.0
1 22	7 26.32	+14 20.7	1.951	2.920	4.2	21.2
2 1	7 18.47	+14 58.2	1.999	2.930	7.6	21.4
2 11	7 12.36	+15 35.8	2.073	2.940	11.0	21.6
2 21	7 8.50	+16 11.2	2.170	2.950	13.8	21.8

135911 2002 TZ_{114} 1 12.9 69°.68 3°.9/12.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.25	+31 22.5	1.603	2.456	14.2	19.5
12 23	7 57.58	+31 37.2	1.548	2.467	10.3	19.3
1 2	7 47.19	+31 44.9	1.518	2.478	6.3	19.1
1 12	7 35.35	+31 40.2	1.515	2.489	3.9	18.9
1 22	7 23.63	+31 20.7	1.539	2.500	6.2	19.1
2 1	7 13.54	+30 47.1	1.592	2.511	10.1	19.4
2 11	7 6.23	+30 3.2	1.668	2.523	13.8	19.6
2 21	7 2.21	+29 13.2	1.766	2.534	16.9	19.9

362063 2009 BZ_{57} 1 12.9 338°.26 2°.2/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.42	+26 46.3	1.316	2.183	15.8	20.2
12 23	7 56.16	+26 47.2	1.248	2.175	11.4	19.9
1 2	7 46.71	+26 45.7	1.202	2.169	6.3	19.6
1 12	7 35.33	+26 37.0	1.181	2.162	2.2	19.3
1 22	7 23.73	+26 18.1	1.187	2.157	5.9	19.5
2 1	7 13.72	+25 48.8	1.219	2.152	11.1	19.8
2 11	7 6.73	+25 11.7	1.273	2.148	15.8	20.0
2 21	7 3.45	+24 30.2	1.346	2.145	19.8	20.3

420157 2011 FL_{151} 1 12.9 293°.01 5°.7/10.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.15	+35 32.5	2.009	2.855	12.1	20.2
12 23	7 54.71	+36 39.4	1.941	2.850	9.2	20.0
1 2	7 45.75	+37 39.6	1.898	2.845	6.6	19.9
1 12	7 35.26	+38 26.0	1.884	2.840	5.7	19.8
1 22	7 24.48	+38 53.8	1.897	2.835	7.4	19.9
2 1	7 14.80	+39 1.2	1.938	2.830	10.2	20.1
2 11	7 7.38	+38 50.3	2.003	2.825	13.2	20.2
2 21	7 2.91	+38 25.2	2.088	2.821	15.7	20.4

207658 2007 PY 1 12.9 89°.79 0°.0/12.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.29	+19 51.4	1.584	2.434	14.6	20.6
12 23	7 56.01	+20 21.0	1.536	2.456	10.3	20.4
1 2	7 46.30	+20 56.5	1.512	2.477	5.5	20.2
1 12	7 35.29	+21 33.0	1.516	2.499	0.4	19.9
1 22	7 24.36	+22 6.4	1.548	2.520	4.5	20.3
2 1	7 14.87	+22 33.7	1.609	2.541	9.1	20.6
2 11	7 7.86	+22 53.8	1.695	2.561	13.0	20.9
2 21	7 3.86	+23 7.1	1.802	2.581	16.2	21.1

49896 1999 XN_{160} 1 12.9 310°.00 2°.3/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.06	+15 44.9	1.557	2.407	14.8	18.9
12 23	7 53.35	+15 40.6	1.480	2.398	10.8	18.6
1 2	7 45.07	+15 46.2	1.427	2.389	6.3	18.3
1 12	7 35.21	+16 0.1	1.400	2.380	2.4	18.1
1 22	7 25.03	+16 19.4	1.401	2.372	5.0	18.2
2 1	7 15.95	+16 41.4	1.429	2.364	9.6	18.5
2 11	7 9.17	+17 3.6	1.481	2.357	14.0	18.7
2 21	7 5.39	+17 24.0	1.553	2.349	17.7	18.9

245442 2005 JK_{166} 1 12.9 311°.53 3°.1/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.30	+10 38.2	2.100	2.928	12.3	20.2
12 23	7 50.16	+10 59.3	2.018	2.920	9.2	20.0
1 2	7 43.17	+11 33.6	1.961	2.913	5.9	19.7
1 12	7 35.05	+12 19.3	1.931	2.906	3.2	19.6
1 22	7 26.68	+13 13.3	1.931	2.898	4.4	19.6
2 1	7 19.04	+14 11.9	1.960	2.891	7.7	19.8
2 11	7 13.01	+15 11.1	2.016	2.885	11.1	20.0
2 21	7 9.16	+16 7.6	2.094	2.878	14.1	20.2

424285 2007 TQ_{132} 1 12.9 171°.66 3°.2/14.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 55.81	+10 13.4	2.562	3.378	10.7	21.6
12 23	7 50.16	+10 7.1	2.486	3.380	8.1	21.4
1 2	7 43.03	+10 10.5	2.435	3.382	5.3	21.2
1 12	7 35.04	+10 22.9	2.413	3.383	3.3	21.1
1 22	7 26.94	+10 42.9	2.422	3.384	4.2	21.1
2 1	7 19.51	+11 8.7	2.460	3.384	6.8	21.3
2 11	7 13.43	+11 37.9	2.526	3.385	9.5	21.5
2 21	7 9.17	+12 8.2	2.616	3.385	12.0	21.7

354092 2001 XY_{55} 1 12.9 18°.94 4°.3/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.37	+24 50.2	1.024	1.908	17.9	20.1
12 23	7 53.81	+26 38.6	0.979	1.915	12.7	19.8
1 2	7 45.64	+28 32.9	0.954	1.923	7.3	19.5
1 12	7 35.27	+30 19.9	0.954	1.932	4.4	19.4
1 22	7 24.66	+31 47.5	0.978	1.943	8.1	19.7
2 1	7 15.91	+32 49.0	1.025	1.955	13.3	20.0
2 11	7 10.62	+33 24.3	1.093	1.968	17.9	20.3
2 21	7 9.50	+33 37.4	1.178	1.982	21.7	20.6

363160 2001 SM_{135} 1 12.9 144°.96 1°.6/12.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.89	+25 26.7	2.270	3.111	11.0	21.9
12 23	7 54.63	+25 52.7	2.206	3.123	7.8	21.7
1 2	7 45.47	+26 18.3	2.169	3.133	4.3	21.5
1 12	7 35.24	+26 39.9	2.163	3.143	1.6	21.4
1 22	7 24.98	+26 54.7	2.186	3.153	4.1	21.6
2 1	7 15.70	+27 1.3	2.240	3.161	7.5	21.8
2 11	7 8.27	+27 0.2	2.321	3.170	10.7	22.0
2 21	7 3.22	+26 52.7	2.425	3.177	13.3	22.2

522193 2016 AG_{260} 1 12.9 250°.03 2°.6/14.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.95	+11 55.4	2.103	2.930	12.4	22.1
12 23	7 52.12	+12 22.5	2.012	2.916	9.2	21.9
1 2	7 44.28	+13 2.2	1.947	2.902	5.7	21.6
1 12	7 35.16	+13 52.4	1.910	2.888	2.7	21.4
1 22	7 25.69	+14 49.7	1.904	2.873	4.2	21.5
2 1	7 16.91	+15 50.1	1.927	2.858	7.9	21.7
2 11	7 9.78	+16 49.7	1.977	2.842	11.5	21.9
2 21	7 4.96	+17 45.6	2.051	2.826	14.6	22.0

51942 2001 QL_{177} 1 12.9 359°.22 4°.3/10.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.25	+32 11.2	2.073	2.923	11.6	18.6
12 23	7 53.16	+33 6.5	2.007	2.922	8.5	18.4
1 2	7 44.84	+33 57.5	1.966	2.922	5.6	18.2
1 12	7 35.20	+34 38.4	1.955	2.922	4.3	18.2
1 22	7 25.36	+35 4.9	1.972	2.922	6.1	18.3
2 1	7 16.55	+35 15.5	2.016	2.922	9.2	18.5
2 11	7 9.79	+35 11.3	2.086	2.922	12.2	18.7
2 21	7 5.69	+34 55.1	2.177	2.923	14.8	18.8

373911 2003 UO_{106} 1 12.9 114°.88 1°.2/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.28	+18 3.3	2.308	3.143	11.1	20.6
12 23	7 52.66	+17 54.0	2.244	3.156	7.9	20.4
1 2	7 44.36	+17 49.0	2.206	3.168	4.4	20.2
1 12	7 35.16	+17 47.1	2.198	3.180	1.3	20.0
1 22	7 25.96	+17 46.8	2.221	3.191	3.5	20.2
2 1	7 17.66	+17 47.0	2.274	3.203	7.0	20.4
2 11	7 11.04	+17 47.0	2.354	3.214	10.1	20.6
2 21	7 6.54	+17 46.2	2.457	3.225	12.7	20.8

175923 2000 DW_{16} 1 12.9 44°.40 15°.0/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 31.15	+59 55.9	1.555	2.316	18.9	20.0
12 23	8 17.20	+60 36.6	1.515	2.326	17.0	19.9
1 2	7 57.82	+60 40.3	1.494	2.337	15.6	19.9
1 12	7 36.19	+59 54.7	1.495	2.349	15.0	19.9
1 22	7 16.15	+58 18.1	1.519	2.360	15.5	19.9
2 1	7 0.72	+55 59.6	1.565	2.372	16.8	20.0
2 11	6 51.16	+53 14.8	1.632	2.385	18.6	20.2
2 21	6 47.25	+50 18.6	1.719	2.397	20.4	20.4

73126 2002 GB_{65} 1 12.9 214°.60 1°.3/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.99	+16 47.6	2.053	2.888	12.3	21.3
12 23	7 54.26	+17 0.2	1.969	2.880	8.9	21.1
1 2	7 45.41	+17 20.2	1.911	2.872	5.0	20.8
1 12	7 35.26	+17 45.1	1.881	2.863	1.4	20.6
1 22	7 24.82	+18 12.1	1.882	2.853	4.0	20.7
2 1	7 15.24	+18 38.7	1.913	2.843	8.0	20.9
2 11	7 7.49	+19 2.9	1.971	2.832	11.7	21.1
2 21	7 2.23	+19 23.8	2.051	2.820	14.8	21.3

387570 2001 SY_{292} 1 12.9 180°.63 2°.4/11.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 54.68	+32 42.4	4.005	4.839	6.8	21.5
12 23	7 49.07	+33 8.5	3.932	4.839	5.0	21.4
1 2	7 42.35	+33 31.1	3.887	4.840	3.2	21.3
1 12	7 35.00	+33 48.1	3.874	4.840	2.4	21.2
1 22	7 27.59	+33 57.8	3.891	4.839	3.5	21.3
2 1	7 20.67	+33 59.7	3.939	4.839	5.3	21.4
2 11	7 14.77	+33 54.0	4.015	4.838	7.1	21.6
2 21	7 10.26	+33 41.9	4.116	4.837	8.7	21.7

449321 2013 FW_{11} 1 12.9 41°.80 0°.5/12.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 0.17	+19 40.4	1.231	2.098	16.7	20.3
12 23	7 54.40	+20 35.5	1.184	2.113	11.8	20.0
1 2	7 45.67	+21 39.9	1.160	2.129	6.3	19.7
1 12	7 35.27	+22 46.3	1.162	2.145	0.7	19.4
1 22	7 24.86	+23 47.2	1.190	2.162	5.4	19.8
2 1	7 16.09	+24 37.4	1.243	2.180	10.7	20.1
2 11	7 10.22	+25 15.0	1.320	2.198	15.2	20.5
2 21	7 7.84	+25 40.2	1.415	2.216	18.8	20.7

493020 2014 SW_{218} 1 12.9 75°.75 0°.9/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.40	+21 17.9	1.827	2.678	12.9	20.6
12 23	7 53.22	+22 11.4	1.770	2.691	9.1	20.4
1 2	7 44.85	+23 9.8	1.737	2.704	4.8	20.2
1 12	7 35.21	+24 8.1	1.734	2.717	0.9	19.9
1 22	7 25.48	+25 1.0	1.760	2.729	4.4	20.2
2 1	7 16.84	+25 45.1	1.814	2.742	8.5	20.5
2 11	7 10.30	+26 18.9	1.894	2.755	12.1	20.7
2 21	7 6.42	+26 42.8	1.996	2.768	15.1	20.9

247504 2002 PN_{70} 1 12.9 108°.64 3°.3/14.1 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.53	+11 46.4	1.981	2.804	13.2	21.1
12 23	7 54.35	+11 38.0	1.926	2.826	9.7	20.9
1 2	7 45.29	+11 40.3	1.896	2.848	6.1	20.7
1 12	7 35.25	+11 52.2	1.895	2.869	3.4	20.6
1 22	7 25.27	+12 11.7	1.925	2.890	4.7	20.7
2 1	7 16.37	+12 36.1	1.983	2.909	8.0	21.0
2 11	7 9.40	+13 3.0	2.068	2.929	11.3	21.2
2 21	7 4.84	+13 30.0	2.176	2.947	14.0	21.4

280470 2004 GF_{25} 1 12.9 158°.97 2°.6/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.89	+26 4.4	1.694	2.544	13.7	20.6
12 23	7 57.39	+26 55.0	1.630	2.550	9.8	20.3
1 2	7 47.20	+27 46.1	1.592	2.556	5.5	20.1
1 12	7 35.42	+28 31.1	1.582	2.561	2.6	19.9
1 22	7 23.47	+29 4.9	1.601	2.565	5.5	20.1
2 1	7 12.82	+29 24.8	1.648	2.569	9.8	20.4
2 11	7 4.70	+29 31.7	1.721	2.572	13.6	20.6
2 21	6 59.75	+29 27.9	1.814	2.574	16.8	20.8

148699 2001 SA_{272} 1 12.9 26°.06 4°.0/14.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.76	+11 52.7	1.498	2.343	15.5	19.7
12 23	7 52.29	+11 40.2	1.438	2.349	11.6	19.5
1 2	7 44.42	+11 41.8	1.400	2.356	7.3	19.2
1 12	7 35.19	+11 56.8	1.389	2.363	4.1	19.1
1 22	7 25.87	+12 22.3	1.404	2.371	5.6	19.2
2 1	7 17.76	+12 55.0	1.446	2.380	9.6	19.4
2 11	7 11.94	+13 30.9	1.511	2.389	13.6	19.7
2 21	7 9.00	+14 6.6	1.598	2.399	17.0	19.9

42842 1999 RK_{9} 1 12.9 67°.37 2°.0/12.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.84	+24 45.5	1.187	2.053	17.3	18.2
12 23	7 58.45	+25 12.7	1.144	2.071	12.2	18.0
1 2	7 47.81	+25 40.8	1.123	2.090	6.6	17.8
1 12	7 35.46	+26 3.1	1.128	2.110	2.0	17.5
1 22	7 23.31	+26 15.0	1.159	2.129	6.0	17.8
2 1	7 13.18	+26 15.1	1.215	2.148	11.3	18.2
2 11	7 6.37	+26 5.1	1.294	2.167	15.8	18.5
2 21	7 3.37	+25 47.8	1.392	2.186	19.4	18.8

293115 2006 XJ_{29} 1 12.9 83°.00 1°.0/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.20	+17 42.8	1.734	2.581	13.7	20.6
12 23	7 53.76	+18 1.4	1.677	2.595	9.8	20.4
1 2	7 45.12	+18 27.5	1.645	2.609	5.4	20.2
1 12	7 35.25	+18 57.8	1.640	2.623	1.1	19.9
1 22	7 25.36	+19 28.8	1.665	2.637	4.2	20.2
2 1	7 16.65	+19 57.5	1.718	2.651	8.5	20.5
2 11	7 10.10	+20 22.0	1.796	2.665	12.3	20.7
2 21	7 6.27	+20 41.6	1.896	2.678	15.4	21.0

255960 2006 TC_{35} 1 12.9 83°.87 1°.1/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.67	+23 18.3	1.698	2.551	13.6	21.0
12 23	7 54.90	+23 40.4	1.641	2.563	9.6	20.7
1 2	7 45.76	+24 4.5	1.609	2.575	5.1	20.5
1 12	7 35.31	+24 26.4	1.604	2.587	1.1	20.3
1 22	7 24.85	+24 42.6	1.629	2.599	4.6	20.5
2 1	7 15.68	+24 51.3	1.681	2.611	8.9	20.8
2 11	7 8.84	+24 52.5	1.759	2.622	12.8	21.1
2 21	7 4.90	+24 47.5	1.857	2.634	15.9	21.3

56588 2000 JS_{32} 1 12.9 247°.28 1°.3/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.70	+18 21.6	1.608	2.455	14.5	20.0
12 23	7 55.96	+18 16.3	1.526	2.444	10.5	19.7
1 2	7 46.52	+18 17.5	1.469	2.433	5.9	19.4
1 12	7 35.40	+18 22.9	1.439	2.422	1.5	19.1
1 22	7 23.91	+18 29.9	1.438	2.410	4.8	19.3
2 1	7 13.55	+18 36.6	1.465	2.398	9.7	19.6
2 11	7 5.57	+18 41.9	1.516	2.385	14.1	19.8
2 21	7 0.72	+18 45.1	1.588	2.372	17.8	20.0

270910 2002 TD_{345} 1 12.9 134.°50 1.°3/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 56.81	+15 41.0	2.592	3.422	10.2	21.2
12 23	7 50.86	+16 3.7	2.524	3.432	7.3	21.0
1 2	7 43.42	+16 32.9	2.482	3.442	4.2	20.8
1 12	7 35.14	+17 6.7	2.471	3.452	1.4	20.6
1 22	7 26.77	+17 42.4	2.491	3.462	3.2	20.8
2 1	7 19.12	+18 17.7	2.542	3.471	6.3	21.0
2 11	7 12.87	+18 50.8	2.620	3.479	9.2	21.2
2 21	7 8.48	+19 20.3	2.722	3.488	11.7	21.4

94550 2001 VM_{13} 1 12.9 212.°17 4.°0/13.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.23	+12 8.5	1.836	2.661	14.0	19.6
12 23	7 55.96	+11 30.8	1.754	2.655	10.5	19.4
1 2	7 46.38	+11 2.5	1.697	2.648	6.8	19.2
1 12	7 35.39	+10 44.1	1.669	2.641	4.1	19.0
1 22	7 24.15	+10 35.3	1.670	2.633	5.6	19.1
2 1	7 13.91	+10 35.1	1.700	2.624	9.3	19.3
2 11	7 5.74	+10 41.5	1.755	2.614	13.0	19.5
2 21	7 0.29	+10 52.3	1.833	2.604	16.3	19.7

325244 2008 GB_{74} 1 12.9 135.°50 2.°8/11.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.24	+27 40.8	2.102	2.948	11.6	20.9
12 23	7 54.43	+28 37.2	2.040	2.958	8.3	20.7
1 2	7 45.49	+29 32.5	2.005	2.966	4.8	20.5
1 12	7 35.31	+30 21.3	1.999	2.975	2.8	20.4
1 22	7 24.99	+30 59.3	2.023	2.983	5.1	20.5
2 1	7 15.69	+31 24.3	2.076	2.990	8.5	20.7
2 11	7 8.39	+31 36.6	2.155	2.998	11.6	21.0
2 21	7 3.66	+31 38.2	2.257	3.005	14.3	21.2

273709 2007 EB_{65} 1 12.9 82.°12 3.°0/11.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.13	+28 23.3	1.871	2.723	12.5	20.7
12 23	7 54.49	+29 2.5	1.812	2.732	9.0	20.5
1 2	7 45.56	+29 39.5	1.778	2.741	5.2	20.3
1 12	7 35.32	+30 8.9	1.773	2.750	3.0	20.1
1 22	7 25.02	+30 26.9	1.797	2.758	5.4	20.3
2 1	7 15.91	+30 32.3	1.848	2.767	9.0	20.6
2 11	7 9.03	+30 26.0	1.925	2.776	12.4	20.8
2 21	7 4.95	+30 10.5	2.023	2.784	15.3	21.0

423133 2004 CV_{53} 1 12.9 276.°97 6.°6/16.7 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.06	− 1 52.3	2.447	3.214	12.6	21.4
12 23	7 49.85	− 1 42.9	2.349	3.196	10.5	21.2
1 2	7 43.01	− 1 13.7	2.275	3.178	8.3	21.1
1 12	7 35.12	− 0 24.1	2.227	3.160	6.8	20.9
1 22	7 26.94	+ 0 44.4	2.209	3.141	6.8	20.9
2 1	7 19.29	+ 2 8.2	2.219	3.123	8.5	21.0
2 11	7 12.96	+ 3 42.0	2.257	3.105	10.9	21.1
2 21	7 8.51	+ 5 20.1	2.319	3.086	13.4	21.2

19787 Betsyglass 1 12.9 99.°07 2.°9/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.90	+28 41.9	1.899	2.749	12.5	18.5
12 23	7 55.00	+29 10.1	1.838	2.757	8.9	18.3
1 2	7 45.81	+29 35.4	1.802	2.764	5.2	18.1
1 12	7 35.35	+29 52.8	1.795	2.772	2.9	18.0
1 22	7 24.83	+29 59.4	1.817	2.779	5.2	18.1
2 1	7 15.53	+29 54.1	1.867	2.786	8.9	18.4
2 11	7 8.46	+29 38.4	1.942	2.793	12.3	18.6
2 21	7 4.18	+29 14.9	2.039	2.800	15.2	18.8

359200 2009 DK_{45} 1 12.9 320.°97 2.°8/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.76	+16 2.7	1.375	2.230	16.0	20.5
12 23	7 54.14	+15 38.3	1.299	2.219	11.8	20.2
1 2	7 45.65	+15 23.0	1.245	2.207	7.0	19.9
1 12	7 35.35	+15 16.3	1.217	2.197	3.0	19.6
1 22	7 24.69	+15 16.5	1.215	2.186	5.6	19.8
2 1	7 15.26	+15 21.6	1.239	2.176	10.6	20.0
2 11	7 8.41	+15 29.7	1.286	2.167	15.3	20.3
2 21	7 4.91	+15 38.9	1.353	2.158	19.3	20.5

399458 2002 PC_{80} 1 12.9 75.°50 5.°1/14.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.78	+10 7.5	1.627	2.454	15.4	20.9
12 23	7 55.46	+ 9 19.3	1.578	2.477	11.6	20.7
1 2	7 45.96	+ 8 44.7	1.554	2.500	7.8	20.5
1 12	7 35.35	+ 8 24.5	1.556	2.523	5.2	20.4
1 22	7 24.89	+ 8 18.0	1.587	2.546	6.3	20.5
2 1	7 15.79	+ 8 23.3	1.645	2.568	9.6	20.8
2 11	7 8.99	+ 8 37.2	1.728	2.590	13.0	21.0
2 21	7 4.95	+ 8 56.4	1.832	2.612	16.0	21.3

362575 2010 VP_{105} 1 12.9 146.°08 3.°6/14.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.67	+ 9 31.7	2.360	3.170	11.7	22.5
12 23	7 52.92	+ 9 24.9	2.292	3.183	8.9	22.3
1 2	7 44.54	+ 9 28.9	2.250	3.195	5.8	22.1
1 12	7 35.25	+ 9 43.0	2.238	3.206	3.7	22.0
1 22	7 25.90	+10 5.6	2.255	3.216	4.6	22.1
2 1	7 17.36	+10 34.3	2.304	3.225	7.3	22.3
2 11	7 10.40	+11 6.6	2.379	3.234	10.2	22.5
2 21	7 5.49	+11 40.0	2.478	3.242	12.7	22.7

447387 2006 BY_{43} 1 12.9 349.°60 13.°8/21.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 52.92	−11 45.4	1.059	1.841	24.7	19.5
12 23	7 49.80	−11 10.3	0.985	1.829	21.7	19.2
1 2	7 43.56	− 9 37.3	0.926	1.818	18.3	19.0
1 12	7 35.19	− 6 59.7	0.885	1.810	15.2	18.8
1 22	7 26.23	− 3 21.9	0.866	1.803	13.8	18.7
2 1	7 18.47	+ 0 59.5	0.872	1.799	15.3	18.7
2 11	7 13.55	+ 5 38.3	0.901	1.796	18.8	18.9
2 21	7 12.42	+10 8.8	0.952	1.795	22.8	19.2

258322 2001 UA_{225} 1 12.9 197.°30 1.°7/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.84	+25 5.8	2.418	3.258	10.5	21.5
12 23	7 54.01	+25 49.4	2.338	3.254	7.5	21.3
1 2	7 45.25	+26 34.1	2.287	3.250	4.1	21.1
1 12	7 35.32	+27 15.7	2.265	3.245	1.7	20.9
1 22	7 25.15	+27 50.6	2.275	3.240	4.1	21.1
2 1	7 15.76	+28 16.5	2.315	3.234	7.5	21.3
2 11	7 8.05	+28 33.0	2.383	3.227	10.6	21.5
2 21	7 2.59	+28 41.0	2.473	3.219	13.2	21.7

344826 2004 EC_{74} 1 12.9 239.°24 4.°6/11.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.26	+30 14.7	1.494	2.351	14.9	21.0
12 23	7 58.21	+31 11.1	1.423	2.344	10.9	20.7
1 2	7 47.91	+32 4.7	1.376	2.336	6.8	20.4
1 12	7 35.55	+32 47.0	1.356	2.329	4.6	20.3
1 22	7 22.79	+33 11.4	1.363	2.320	7.3	20.4
2 1	7 11.46	+33 15.8	1.396	2.312	11.6	20.7
2 11	7 3.08	+33 2.4	1.453	2.304	15.7	20.9
2 21	6 58.43	+32 35.8	1.529	2.295	19.2	21.1

310056 2010 JC_{46} 1 12.9 186.°34 0.°1/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.96	+20 9.5	1.921	2.764	12.7	22.3
12 23	7 55.06	+20 39.1	1.847	2.764	9.0	22.0
1 2	7 45.91	+21 14.0	1.799	2.764	4.9	21.8
1 12	7 35.38	+21 50.5	1.779	2.762	0.4	21.4
1 22	7 24.64	+22 24.5	1.790	2.761	4.1	21.7
2 1	7 14.89	+22 53.3	1.830	2.758	8.4	22.0
2 11	7 7.19	+23 15.5	1.896	2.755	12.2	22.2
2 21	7 2.16	+23 31.1	1.984	2.752	15.3	22.4

488836 2005 QW_{72} 1 12.9 134.°98 2.°4/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.16	+28 44.4	2.434	3.272	10.5	22.1
12 23	7 55.43	+29 10.4	2.375	3.289	7.5	21.9
1 2	7 45.89	+29 33.3	2.344	3.304	4.3	21.7
1 12	7 35.37	+29 49.3	2.343	3.320	2.4	21.6
1 22	7 24.88	+29 56.0	2.373	3.334	4.3	21.8
2 1	7 15.40	+29 52.8	2.434	3.348	7.4	22.0
2 11	7 7.77	+29 40.9	2.522	3.361	10.2	22.2
2 21	7 2.45	+29 22.2	2.632	3.373	12.6	22.4

333819 2012 HR_{21} 1 12.9 242.°40 4.°1/10.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.23	+30 33.1	2.060	2.908	11.7	20.4
12 23	7 54.75	+31 46.8	1.983	2.899	8.6	20.2
1 2	7 45.85	+32 58.9	1.932	2.889	5.5	20.0
1 12	7 35.39	+34 2.6	1.911	2.879	4.2	19.9
1 22	7 24.53	+34 52.3	1.919	2.869	6.2	20.0
2 1	7 14.57	+35 24.8	1.955	2.859	9.5	20.2
2 11	7 6.67	+35 40.5	2.017	2.848	12.7	20.3
2 21	7 1.56	+35 42.1	2.099	2.837	15.5	20.5

64164 2001 TL_{49} 1 12.9 22.°04 4.°3/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.87	+30 20.3	1.289	2.154	16.2	18.8
12 23	7 57.97	+30 44.7	1.231	2.156	11.8	18.5
1 2	7 47.71	+31 3.2	1.196	2.159	7.1	18.3
1 12	7 35.53	+31 8.9	1.186	2.162	4.3	18.1
1 22	7 23.30	+30 57.4	1.202	2.166	7.1	18.3
2 1	7 12.90	+30 29.1	1.243	2.169	11.8	18.6
2 11	7 5.77	+29 47.9	1.307	2.174	16.1	18.8
2 21	7 2.51	+28 58.9	1.390	2.178	19.8	19.1

59066 1998 VY 1 12.9 35.°97 19.°3/ 3.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 18.17	+58 28.9	1.189	1.990	21.4	19.0
12 23	8 10.83	+61 33.1	1.173	2.001	19.9	19.0
1 2	7 56.12	+63 57.0	1.176	2.013	19.3	18.9
1 12	7 36.26	+65 22.4	1.196	2.026	19.6	19.0
1 22	7 15.79	+65 41.9	1.234	2.039	20.6	19.1
2 1	6 59.68	+65 2.0	1.288	2.053	22.0	19.3
2 11	6 50.87	+63 38.6	1.356	2.067	23.6	19.4
2 21	6 49.58	+61 47.6	1.435	2.082	25.0	19.6

5531 Carolientje 1 12.9 349.°81 7.°7/16.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.75	+ 1 26.4	1.665	2.470	16.0	17.1
12 23	7 50.80	+ 1 6.3	1.593	2.467	13.0	16.9
1 2	7 43.67	+ 1 9.0	1.542	2.464	10.0	16.7
1 12	7 35.21	+ 1 36.0	1.515	2.462	7.9	16.6
1 22	7 26.51	+ 2 25.6	1.515	2.460	8.2	16.6
2 1	7 18.74	+ 3 33.4	1.541	2.458	10.6	16.8
2 11	7 12.94	+ 4 52.7	1.591	2.457	13.7	17.0
2 21	7 9.75	+ 6 16.7	1.663	2.457	16.8	17.1

347502 1998 UG_9 1 12.9 81°.40 3°.7/11.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.75	+28 26.9	1.357	2.216	15.9	21.4
12 23	7 58.94	+29 9.1	1.313	2.236	11.4	21.1
1 2	7 48.06	+29 47.7	1.292	2.256	6.6	20.9
1 12	7 35.56	+30 15.2	1.298	2.275	3.7	20.8
1 22	7 23.23	+30 27.0	1.331	2.295	6.6	21.0
2 1	7 12.79	+30 22.5	1.391	2.314	11.0	21.3
2 11	7 5.49	+30 4.6	1.473	2.333	15.0	21.6
2 21	7 1.83	+29 37.6	1.575	2.351	18.3	21.9

451452 2011 SN_{208} 1 12.9 45°.00 4°.4/11.6 18

12 13	8 3.31	+28 40.8	1.214	2.084	16.7	20.2
12 23	7 56.75	+29 40.7	1.176	2.104	11.9	20.0
1 2	7 46.97	+30 37.0	1.160	2.124	7.1	19.8
1 12	7 35.48	+31 21.0	1.169	2.145	4.4	19.7
1 22	7 24.14	+31 46.6	1.204	2.167	7.3	19.9
2 1	7 14.77	+31 52.6	1.264	2.189	11.7	20.2
2 11	7 8.66	+31 42.0	1.347	2.211	15.8	20.5
2 21	7 6.29	+31 19.3	1.447	2.234	19.2	20.8

58455 1996 JZ_{11} 1 12.9 223°.10 0°.1/12.9 18

12 13	8 2.54	+20 15.8	1.968	2.809	12.5	20.8
12 23	7 55.57	+20 44.3	1.882	2.798	9.0	20.5
1 2	7 46.25	+21 18.3	1.821	2.786	4.9	20.2
1 12	7 35.44	+21 54.0	1.790	2.773	0.4	19.9
1 22	7 24.26	+22 27.5	1.789	2.760	4.2	20.1
2 1	7 13.96	+22 55.8	1.818	2.746	8.5	20.4
2 11	7 5.66	+23 17.7	1.873	2.731	12.4	20.6
2 21	7 0.04	+23 33.0	1.950	2.715	15.7	20.8

322307 2011 FJ_{140} 1 12.9 343°.23 2°.8/13.9 18

12 13	7 57.43	+13 16.4	1.979	2.814	12.7	21.0
12 23	7 51.73	+13 12.5	1.905	2.813	9.4	20.8
1 2	7 44.07	+13 18.5	1.856	2.812	5.8	20.5
1 12	7 35.26	+13 33.4	1.835	2.812	2.9	20.4
1 22	7 26.29	+13 55.0	1.843	2.811	4.4	20.5
2 1	7 18.20	+14 20.8	1.879	2.811	8.0	20.7
2 11	7 11.90	+14 48.3	1.942	2.810	11.5	20.9
2 21	7 7.95	+15 15.3	2.027	2.810	14.5	21.1

422906 2002 RH_{189} 1 12.9 71°.96 0°.5/13.2 18

12 13	7 59.12	+16 47.5	2.144	2.981	11.8	20.3
12 23	7 52.65	+17 44.4	2.097	3.011	8.3	20.2
1 2	7 44.43	+18 48.5	2.077	3.040	4.5	20.0
1 12	7 35.28	+19 55.4	2.087	3.070	0.7	19.8
1 22	7 26.16	+21 0.5	2.128	3.099	3.5	20.0
2 1	7 18.01	+22 0.2	2.199	3.128	7.1	20.3
2 11	7 11.63	+22 52.1	2.297	3.157	10.3	20.6
2 21	7 7.47	+23 35.5	2.419	3.185	12.9	20.8

284089 2005 LQ_{37} 1 12.9 214°.21 5°.4/15.2 18

12 13	7 55.41	+ 3 56.3	2.472	3.266	11.8	21.0
12 23	7 49.98	+ 3 31.9	2.392	3.264	9.4	20.8
1 2	7 43.03	+ 3 21.1	2.338	3.261	7.0	20.6
1 12	7 35.18	+ 3 24.6	2.311	3.259	5.5	20.5
1 22	7 27.19	+ 3 41.8	2.313	3.257	5.9	20.5
2 1	7 19.84	+ 4 10.7	2.344	3.254	7.8	20.7
2 11	7 13.86	+ 4 48.3	2.401	3.251	10.3	20.8
2 21	7 9.72	+ 5 31.0	2.482	3.248	12.6	21.0

56700 2000 LL_{28} 1 12.9 235°.15 2°.6/12.2 18

12 13	8 4.11	+29 32.0	2.019	2.863	12.1	18.2
12 23	7 56.57	+29 34.8	1.940	2.856	8.7	18.0
1 2	7 46.71	+29 32.8	1.887	2.848	5.1	17.8
1 12	7 35.49	+29 22.2	1.863	2.840	2.6	17.6
1 22	7 24.13	+29 0.8	1.869	2.832	5.0	17.7
2 1	7 13.91	+28 28.9	1.904	2.824	8.7	17.9
2 11	7 5.88	+27 48.8	1.966	2.816	12.2	18.1
2 21	7 0.65	+27 3.5	2.049	2.807	15.2	18.3

270817 2002 SB_1 1 12.9 218°.89 2°.5/13.7 18

12 13	8 2.77	+14 0.8	1.717	2.551	14.3	21.0
12 23	7 55.90	+14 11.8	1.634	2.543	10.6	20.8
1 2	7 46.50	+14 34.5	1.575	2.534	6.3	20.5
1 12	7 35.49	+15 6.6	1.544	2.524	2.6	20.2
1 22	7 24.08	+15 44.8	1.543	2.513	4.8	20.4
2 1	7 13.66	+16 25.2	1.570	2.501	9.3	20.6
2 11	7 5.42	+17 4.8	1.623	2.489	13.5	20.8
2 21	7 0.10	+17 41.1	1.697	2.476	17.1	21.0

253943 2004 CF_{111} 1 12.9 330°.51 1°.2/12.6 18

12 13	8 1.39	+24 23.0	1.540	2.399	14.4	20.5
12 23	7 55.11	+24 27.9	1.469	2.393	10.3	20.3
1 2	7 46.10	+24 33.6	1.421	2.388	5.6	20.0
1 12	7 35.45	+24 36.0	1.401	2.383	1.2	19.7
1 22	7 24.59	+24 32.3	1.408	2.379	5.0	19.9
2 1	7 15.04	+24 21.2	1.442	2.375	9.8	20.2
2 11	7 8.04	+24 3.7	1.500	2.371	14.1	20.5
2 21	7 4.25	+23 41.5	1.579	2.367	17.7	20.7

407552 2010 XR_9 1 12.9 40°.83 0°.8/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 58.92	+17 45.1	1.464	2.320	15.1	20.6
12 23	7 53.19	+18 13.1	1.412	2.335	10.8	20.4
1 2	7 44.96	+18 50.6	1.384	2.349	5.9	20.1
1 12	7 35.35	+19 32.9	1.382	2.364	1.0	19.8
1 22	7 25.71	+20 15.4	1.407	2.380	4.6	20.1
2 1	7 17.43	+20 54.1	1.459	2.396	9.4	20.4
2 11	7 11.59	+21 26.4	1.536	2.413	13.5	20.7
2 21	7 8.75	+21 51.6	1.633	2.430	16.9	21.0

142497 2002 TL_{31} 1 12.9 94°.84 2°.2/12.1 18

12 13	8 3.30	+25 53.2	1.792	2.641	13.1	20.4
12 23	7 55.98	+26 33.3	1.742	2.662	9.3	20.2
1 2	7 46.34	+27 12.9	1.717	2.682	5.1	20.0
1 12	7 35.46	+27 46.7	1.722	2.701	2.2	19.9
1 22	7 24.63	+28 10.8	1.755	2.721	5.0	20.1
2 1	7 15.13	+28 23.4	1.817	2.740	8.9	20.4
2 11	7 7.97	+28 25.5	1.905	2.758	12.4	20.6
2 21	7 3.67	+28 19.0	2.013	2.776	15.3	20.9

218635 2005 RT_{31} 1 12.9 170°.20 2°.6/13.8 18

12 13	8 0.32	+13 55.3	2.276	3.100	11.6	21.0
12 23	7 53.51	+13 37.3	2.201	3.104	8.6	20.8
1 2	7 44.94	+13 26.5	2.153	3.107	5.2	20.6
1 12	7 35.36	+13 22.3	2.134	3.110	2.7	20.4
1 22	7 25.68	+13 23.7	2.145	3.112	4.1	20.5
2 1	7 16.84	+13 29.3	2.187	3.113	7.4	20.7
2 11	7 9.67	+13 37.7	2.256	3.114	10.5	20.9
2 21	7 4.66	+13 47.4	2.349	3.115	13.3	21.1

171439 2007 RO_{89} 1 12.9 189°.83 1°.3/12.5 18

12 13	8 3.26	+23 52.9	1.962	2.806	12.4	21.3
12 23	7 56.00	+24 19.9	1.888	2.805	8.8	21.1
1 2	7 46.43	+24 48.6	1.839	2.804	4.8	20.9
1 12	7 35.49	+25 14.6	1.820	2.802	1.3	20.6
1 22	7 24.33	+25 34.4	1.831	2.799	4.4	20.8
2 1	7 14.22	+25 46.0	1.871	2.796	8.5	21.1
2 11	7 6.21	+25 49.4	1.937	2.791	12.2	21.3
2 21	7 0.94	+25 45.9	2.025	2.786	15.3	21.5

523765 2014 WD_{510} 1 12.9 9°.67 0°.3/11.3 18

12 13	7 37.40	+31 55.1	38.007	38.846	0.8	22.0
12 23	7 36.53	+31 59.0	37.938	38.849	0.6	21.9
1 2	7 35.58	+32 2.6	37.897	38.851	0.4	21.9
1 12	7 34.58	+32 5.7	37.886	38.854	0.3	21.9
1 22	7 33.57	+32 8.3	37.906	38.857	0.4	21.9
2 1	7 32.61	+32 10.3	37.956	38.860	0.6	22.0
2 11	7 31.71	+32 11.7	38.035	38.863	0.8	22.0
2 21	7 30.93	+32 12.4	38.138	38.866	1.0	22.0

25768 Nussbaum 1 12.9 79°.67 0°.7/13.2 18

12 13	7 58.07	+18 25.7	2.056	2.899	11.9	19.2
12 23	7 52.08	+18 44.3	1.993	2.910	8.5	19.0
1 2	7 44.21	+19 8.8	1.956	2.920	4.7	18.8
1 12	7 35.30	+19 36.4	1.948	2.931	0.8	18.5
1 22	7 26.32	+20 4.1	1.969	2.941	3.7	18.8
2 1	7 18.28	+20 29.5	2.020	2.952	7.5	19.0
2 11	7 12.05	+20 51.1	2.097	2.962	10.9	19.2
2 21	7 8.13	+21 8.3	2.197	2.973	13.8	19.5

317144 2001 UQ_{171} 1 12.9 4°.69 7°.7/10.1 18

12 13	8 4.78	+39 49.6	1.737	2.579	13.8	19.9
12 23	7 57.69	+40 58.8	1.679	2.579	10.9	19.8
1 2	7 47.55	+41 55.7	1.644	2.579	8.5	19.6
1 12	7 35.58	+42 31.7	1.636	2.579	7.8	19.6
1 22	7 23.43	+42 41.6	1.655	2.580	9.3	19.7
2 1	7 12.81	+42 25.2	1.699	2.580	12.1	19.8
2 11	7 5.08	+41 47.0	1.765	2.581	15.0	20.0
2 21	7 0.90	+40 53.4	1.851	2.582	17.5	20.2

468157 2014 WH_{234} 1 12.9 25°.76 4°.1/11.4 18

12 13	8 0.53	+30 16.5	1.686	2.544	13.4	21.0
12 23	7 54.39	+31 7.5	1.627	2.548	9.7	20.8
1 2	7 45.66	+31 55.0	1.593	2.553	6.0	20.6
1 12	7 35.43	+32 32.4	1.585	2.558	4.1	20.5
1 22	7 25.06	+32 54.9	1.606	2.563	6.4	20.7
2 1	7 16.00	+33 0.9	1.653	2.569	10.1	20.9
2 11	7 9.39	+32 52.0	1.724	2.575	13.6	21.1
2 21	7 5.86	+32 31.6	1.816	2.582	16.6	21.3

143170 2002 XJ_{64} 1 12.9 112°.30 2°.8/11.9 18

12 13	8 2.59	+27 49.3	1.832	2.683	12.8	20.0
12 23	7 55.59	+28 26.9	1.773	2.692	9.2	19.8
1 2	7 46.21	+29 2.5	1.739	2.702	5.3	19.6
1 12	7 35.48	+29 30.8	1.733	2.711	2.8	19.5
1 22	7 24.70	+29 48.0	1.757	2.720	5.3	19.6
2 1	7 15.16	+29 52.7	1.808	2.728	9.1	19.9
2 11	7 7.92	+29 46.1	1.885	2.737	12.6	20.1
2 21	7 3.56	+29 30.7	1.984	2.745	15.5	20.3

85081 2153 $T\text{-}_2$ 1 12.9 112°.12 1°.7/12.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 58.78	+26 34.7	2.487	3.331	10.1	19.8
12 23	7 52.38	+26 58.4	2.425	3.342	7.2	19.7
1 2	7 44.31	+27 21.2	2.390	3.354	4.0	19.5
1 12	7 35.32	+27 39.6	2.385	3.365	1.7	19.3
1 22	7 26.30	+27 51.4	2.411	3.376	3.9	19.5
2 1	7 18.16	+27 55.5	2.466	3.386	7.0	19.7
2 11	7 11.64	+27 52.1	2.548	3.397	9.8	19.9
2 21	7 7.22	+27 42.6	2.654	3.407	12.2	20.1

394368 2007 DK_{33} 1 12.9 302°.51 4°.5/11.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.95	+30 11.8	1.342	2.205	15.9	20.7
12 23	7 58.14	+30 53.1	1.277	2.201	11.6	20.5
1 2	7 47.94	+31 30.3	1.235	2.197	7.1	20.2
1 12	7 35.64	+31 55.2	1.219	2.194	4.5	20.0
1 22	7 23.08	+32 2.2	1.229	2.190	7.4	20.2
2 1	7 12.18	+31 49.9	1.264	2.186	12.0	20.4
2 11	7 4.47	+31 21.6	1.322	2.183	16.3	20.7
2 21	7 0.67	+30 42.5	1.399	2.180	20.0	20.9

53690 2000 DK_{83} 1 12.9 18°.68 0°.6/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.97	+21 50.0	1.943	2.794	12.2	19.3
12 23	7 52.22	+22 16.3	1.874	2.796	8.6	19.1
1 2	7 44.39	+22 46.3	1.831	2.797	4.6	18.8
1 12	7 35.34	+23 16.4	1.816	2.799	0.6	18.5
1 22	7 26.14	+23 43.2	1.830	2.801	4.1	18.8
2 1	7 17.91	+24 4.2	1.873	2.804	8.1	19.1
2 11	7 11.61	+24 18.5	1.942	2.806	11.7	19.3
2 21	7 7.82	+24 26.3	2.032	2.809	14.7	19.5

429311 2010 EU_{20} 1 12.9 313°.42 4°.2/11.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.69	+33 29.1	2.016	2.863	12.0	21.2
12 23	7 54.99	+33 48.5	1.940	2.854	8.9	21.0
1 2	7 45.92	+34 0.8	1.890	2.845	5.8	20.8
1 12	7 35.47	+34 1.2	1.867	2.836	4.2	20.7
1 22	7 24.87	+33 47.0	1.874	2.827	6.0	20.8
2 1	7 15.40	+33 18.0	1.908	2.819	9.3	21.0
2 11	7 8.14	+32 36.8	1.967	2.811	12.5	21.2
2 21	7 3.69	+31 47.3	2.049	2.803	15.3	21.3

245747 2006 DK_{145} 1 12.9 194°.44 0°.6/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.92	+18 20.4	2.070	2.906	12.2	22.1
12 23	7 54.95	+18 42.0	1.990	2.903	8.7	21.9
1 2	7 45.85	+19 9.9	1.937	2.900	4.8	21.7
1 12	7 35.47	+19 41.0	1.914	2.897	0.8	21.4
1 22	7 24.86	+20 12.1	1.921	2.892	3.9	21.6
2 1	7 15.14	+20 40.3	1.958	2.887	7.9	21.8
2 11	7 7.29	+21 4.3	2.022	2.880	11.6	22.0
2 21	7 1.93	+21 23.3	2.108	2.873	14.6	22.2

245718 2006 CY_{59} 1 12.9 266°.77 1°.4/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.53	+17 6.4	1.662	2.508	14.2	21.3
12 23	7 55.24	+17 16.5	1.571	2.488	10.4	21.0
1 2	7 46.28	+17 35.6	1.504	2.468	5.9	20.7
1 12	7 35.53	+18 1.2	1.465	2.447	1.6	20.4
1 22	7 24.24	+18 29.7	1.454	2.426	4.7	20.5
2 1	7 13.88	+18 58.0	1.471	2.404	9.6	20.8
2 11	7 5.73	+19 23.5	1.513	2.382	14.1	21.0
2 21	7 0.63	+19 45.1	1.575	2.360	17.9	21.2

24581 1474 $T\text{-}_2$ 1 12.9 179°.44 1°.5/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.98	+16 52.4	1.706	2.545	14.2	19.6
12 23	7 56.66	+16 59.8	1.634	2.547	10.3	19.4
1 2	7 46.86	+17 15.4	1.586	2.548	5.8	19.1
1 12	7 35.57	+17 36.4	1.567	2.549	1.7	18.8
1 22	7 24.07	+17 59.6	1.577	2.549	4.5	19.0
2 1	7 13.73	+18 22.4	1.616	2.548	9.1	19.3
2 11	7 5.68	+18 42.8	1.681	2.546	13.2	19.5
2 21	7 0.58	+19 0.0	1.767	2.543	16.6	19.8

263870 2009 DE_{45} 1 12.9 236°.46 8°.7/ 9.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.70	+42 40.7	1.732	2.563	14.4	20.1
12 23	8 0.66	+43 47.0	1.668	2.559	11.6	20.0
1 2	7 49.24	+44 38.1	1.629	2.554	9.4	19.8
1 12	7 35.77	+45 4.6	1.616	2.549	8.8	19.8
1 22	7 22.07	+45 1.1	1.629	2.544	10.2	19.8
2 1	7 10.09	+44 28.1	1.667	2.538	12.8	20.0
2 11	7 1.30	+43 31.6	1.728	2.533	15.7	20.2
2 21	6 56.41	+42 19.4	1.807	2.527	18.2	20.3

53322 1999 JK_{15} 1 12.9 266°.60 4°.5/14.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.01	+ 7 8.6	2.158	2.967	12.7	19.3
12 23	7 52.23	+ 7 10.9	2.056	2.944	9.9	19.1
1 2	7 44.46	+ 7 27.9	1.979	2.919	6.9	18.8
1 12	7 35.38	+ 7 59.7	1.930	2.895	4.7	18.6
1 22	7 25.86	+ 8 44.3	1.911	2.869	5.4	18.6
2 1	7 16.93	+ 9 38.7	1.920	2.844	8.4	18.8
2 11	7 9.55	+10 38.6	1.957	2.817	11.8	18.9
2 21	7 4.40	+11 40.2	2.016	2.791	14.9	19.1

161110 2002 QA_{54} 1 12.9 23°.80 3°.0/14.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 56.16	+11 3.4	2.034	2.863	12.6	20.2
12 23	7 50.82	+11 21.4	1.961	2.864	9.4	20.0
1 2	7 43.62	+11 52.0	1.913	2.866	5.9	19.8
1 12	7 35.31	+12 33.5	1.893	2.868	3.2	19.6
1 22	7 26.84	+13 22.7	1.902	2.870	4.4	19.7
2 1	7 19.18	+14 15.9	1.941	2.872	7.8	19.9
2 11	7 13.21	+15 9.4	2.005	2.875	11.2	20.1
2 21	7 9.49	+16 0.3	2.093	2.877	14.1	20.3

7990 1981 SN_1 1 12.9 59°.79 0°.7/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.08	+18 23.4	1.902	2.745	12.8	18.2
12 23	7 53.42	+18 44.0	1.861	2.778	9.0	18.1
1 2	7 44.88	+19 10.3	1.846	2.810	4.9	17.9
1 12	7 35.41	+19 39.1	1.860	2.843	0.8	17.7
1 22	7 26.09	+20 7.3	1.903	2.875	3.8	17.9
2 1	7 17.96	+20 32.4	1.975	2.907	7.7	18.2
2 11	7 11.83	+20 53.1	2.074	2.939	11.0	18.5
2 21	7 8.13	+21 9.1	2.195	2.971	13.8	18.8

115399 2003 SD_{291} 1 12.9 95°.80 0°.3/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.11	+21 38.9	2.157	3.001	11.4	20.0
12 23	7 52.77	+21 55.8	2.096	3.014	8.1	19.8
1 2	7 44.59	+22 15.5	2.061	3.026	4.3	19.6
1 12	7 35.39	+22 35.0	2.055	3.038	0.4	19.3
1 22	7 26.17	+22 51.8	2.079	3.050	3.7	19.6
2 1	7 17.91	+23 4.0	2.133	3.062	7.4	19.8
2 11	7 11.45	+23 11.3	2.214	3.074	10.6	20.0
2 21	7 7.27	+23 13.8	2.317	3.086	13.4	20.2

377124 2003 BS_{34} 1 12.9 13°.50 0°.0/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.70	+19 5.3	1.738	2.594	13.2	19.7
12 23	7 50.79	+19 50.3	1.675	2.598	9.3	19.5
1 2	7 43.70	+20 43.1	1.637	2.604	5.0	19.3
1 12	7 35.34	+21 39.2	1.626	2.610	0.4	18.9
1 22	7 26.81	+22 33.7	1.644	2.616	4.2	19.2
2 1	7 19.31	+23 22.3	1.690	2.624	8.5	19.5
2 11	7 13.82	+24 2.8	1.760	2.632	12.3	19.8
2 21	7 10.95	+24 34.1	1.852	2.641	15.5	20.0

169157 2001 QH_{187} 1 12.9 137°.93 4°.5/15.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.50	+ 4 9.9	3.116	3.898	9.9	20.4
12 23	7 50.43	+ 3 42.0	3.048	3.912	7.8	20.2
1 2	7 43.18	+ 3 24.7	3.006	3.925	5.8	20.1
1 12	7 35.30	+ 3 18.5	2.994	3.938	4.6	20.1
1 22	7 27.38	+ 3 23.0	3.012	3.951	4.9	20.1
2 1	7 20.06	+ 3 36.8	3.060	3.963	6.5	20.2
2 11	7 13.86	+ 3 57.8	3.137	3.975	8.5	20.4
2 21	7 9.19	+ 4 23.6	3.237	3.985	10.3	20.5

288833 2004 RN_{190} 1 12.9 84°.22 1°.6/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.84	+18 7.3	1.468	2.318	15.5	20.3
12 23	7 56.63	+17 54.1	1.414	2.333	11.1	20.1
1 2	7 46.82	+17 47.8	1.383	2.347	6.2	19.8
1 12	7 35.61	+17 46.3	1.380	2.362	1.7	19.6
1 22	7 24.47	+17 47.4	1.404	2.376	4.8	19.8
2 1	7 14.83	+17 49.3	1.456	2.390	9.6	20.1
2 11	7 7.80	+17 51.0	1.532	2.404	13.8	20.4
2 21	7 3.93	+17 51.8	1.628	2.418	17.2	20.7

14457 1993 FR_{23} 1 12.9 63°.80 4°.9/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 8.01	+31 3.5	1.240	2.102	16.9	17.1
12 23	8 0.02	+31 44.2	1.203	2.126	12.2	16.9
1 2	7 48.73	+32 17.3	1.188	2.149	7.5	16.7
1 12	7 35.78	+32 34.7	1.199	2.173	4.9	16.6
1 22	7 23.17	+32 32.4	1.236	2.197	7.5	16.8
2 1	7 12.76	+32 11.2	1.299	2.221	11.8	17.1
2 11	7 5.79	+31 36.0	1.384	2.244	15.8	17.4
2 21	7 2.70	+30 52.3	1.489	2.268	19.1	17.7

58261 1993 SD_1 1 12.9 77°.40 2°.7/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 5.32	+26 9.9	1.430	2.287	15.3	18.2
12 23	7 57.82	+26 53.7	1.386	2.309	10.9	18.0
1 2	7 47.50	+27 36.8	1.366	2.331	6.0	17.8
1 12	7 35.69	+28 12.2	1.374	2.353	2.7	17.6
1 22	7 24.01	+28 35.3	1.409	2.375	5.8	17.9
2 1	7 14.05	+28 44.4	1.471	2.396	10.3	18.2
2 11	7 6.98	+28 41.1	1.556	2.418	14.3	18.5
2 21	7 3.32	+28 28.4	1.662	2.438	17.5	18.8

190734 2001 PP_{23} 1 12.9 70°.43 3°.5/12.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 7.25	+28 32.0	1.302	2.162	16.4	20.1
12 23	7 59.36	+28 59.7	1.260	2.184	11.7	19.9
1 2	7 48.36	+29 23.2	1.241	2.205	6.7	19.7
1 12	7 35.76	+29 35.6	1.248	2.226	3.5	19.6
1 22	7 23.43	+29 33.3	1.282	2.247	6.5	19.8
2 1	7 13.10	+29 16.4	1.342	2.268	11.0	20.1
2 11	7 6.00	+28 48.3	1.425	2.289	15.2	20.4
2 21	7 2.60	+28 13.3	1.528	2.310	18.5	20.7

192868 1999 WZ_{18} 1 12.9 89°.23 0°.8/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 58.78	+18 30.7	2.010	2.853	12.2	21.0
12 23	7 52.67	+18 42.6	1.945	2.861	8.7	20.8
1 2	7 44.61	+19 0.2	1.906	2.870	4.8	20.6
1 12	7 35.46	+19 21.0	1.895	2.878	0.9	20.3
1 22	7 26.23	+19 42.2	1.914	2.886	3.8	20.6
2 1	7 17.96	+20 1.6	1.962	2.894	7.7	20.8
2 11	7 11.55	+20 17.9	2.036	2.902	11.2	21.1
2 21	7 7.53	+20 30.5	2.132	2.910	14.1	21.3

240897 2006 DY_{90} 1 12.9 133°.12 1°.0/12.6 18

12 13	8 3.81	+23 6.4	1.871	2.716	12.9	21.6
12 23	7 56.35	+23 35.7	1.811	2.729	9.1	21.4
1 2	7 46.62	+24 7.0	1.777	2.742	4.9	21.2
1 12	7 35.63	+24 35.9	1.772	2.754	1.1	20.9
1 22	7 24.60	+24 58.9	1.797	2.766	4.4	21.2
2 1	7 14.77	+25 13.9	1.851	2.777	8.5	21.4
2 11	7 7.15	+25 20.9	1.931	2.788	12.1	21.7
2 21	7 2.31	+25 21.1	2.033	2.797	15.1	21.9

38053 1998 XO_{62} 1 12.9 15°.91 18°.4/12.5 16

12 13	8 30.65	+56 23.8	0.989	1.801	24.0	18.6
12 23	8 19.05	+57 28.4	0.946	1.802	21.4	18.4
1 2	7 59.87	+57 49.6	0.919	1.803	19.3	18.3
1 12	7 36.75	+57 6.5	0.911	1.805	18.4	18.2
1 22	7 14.93	+55 13.3	0.922	1.807	19.1	18.3
2 1	6 58.75	+52 22.8	0.952	1.810	21.3	18.4
2 11	6 49.96	+48 59.1	1.001	1.813	24.0	18.6
2 21	6 48.08	+45 24.2	1.065	1.817	26.7	18.8

35587 1998 HR_{63} 1 12.9 132°.26 0°.9/12.6 18

12 13	7 59.71	+22 35.3	2.110	2.955	11.6	19.0
12 23	7 53.34	+23 8.7	2.043	2.962	8.2	18.8
1 2	7 45.00	+23 45.0	2.004	2.969	4.4	18.6
1 12	7 35.52	+24 20.1	1.993	2.975	0.9	18.3
1 22	7 25.92	+24 50.7	2.012	2.982	3.9	18.6
2 1	7 17.26	+25 14.3	2.061	2.988	7.7	18.8
2 11	7 10.45	+25 30.5	2.136	2.994	11.1	19.0
2 21	7 6.04	+25 39.5	2.234	2.999	13.9	19.2

337267 2000 SJ_{361} 1 12.9 148°.59 8°.0/ 8.2 18

12 13	8 8.63	+53 31.1	3.118	3.885	10.2	21.6
12 23	7 59.74	+54 32.7	3.072	3.894	8.9	21.5
1 2	7 48.46	+55 18.2	3.051	3.903	8.2	21.4
1 12	7 35.81	+55 42.4	3.057	3.911	8.1	21.5
1 22	7 23.10	+55 42.8	3.088	3.919	8.7	21.5
2 1	7 11.65	+55 20.1	3.146	3.926	9.8	21.6
2 11	7 2.52	+54 38.2	3.226	3.933	11.1	21.7
2 21	6 56.29	+53 41.9	3.325	3.940	12.3	21.8

167037 2003 QQ_{45} 1 12.9 213°.76 0°.8/13.2 18

12 13	8 1.77	+18 4.2	1.966	2.805	12.6	21.8
12 23	7 55.01	+18 23.9	1.884	2.798	9.1	21.5
1 2	7 46.01	+18 50.7	1.827	2.790	5.0	21.3
1 12	7 35.62	+19 21.3	1.799	2.781	1.0	20.9
1 22	7 24.93	+19 52.5	1.801	2.772	4.0	21.2
2 1	7 15.13	+20 21.4	1.832	2.763	8.3	21.4
2 11	7 7.27	+20 46.2	1.891	2.752	12.1	21.6
2 21	7 2.02	+21 6.1	1.971	2.741	15.3	21.8

284364 2006 SY_{145} 1 12.9 187°.98 0°.0/12.9 17

12 13	7 56.75	+20 54.3	2.779	3.616	9.4	21.8
12 23	7 50.90	+21 10.1	2.701	3.616	6.6	21.7
1 2	7 43.58	+21 28.7	2.651	3.615	3.6	21.4
1 12	7 35.41	+21 47.9	2.630	3.614	0.3	21.2
1 22	7 27.11	+22 5.7	2.641	3.612	3.0	21.4
2 1	7 19.45	+22 20.4	2.683	3.610	6.1	21.6
2 11	7 13.14	+22 31.4	2.752	3.608	8.9	21.8
2 21	7 8.62	+22 38.5	2.846	3.606	11.3	22.0

248703 2006 MK_{14} 1 12.9 83°.75 7°.6/10.6 17

12 13	8 10.44	+40 18.5	1.755	2.588	14.1	20.2
12 23	8 1.35	+41 29.1	1.724	2.618	11.0	20.1
1 2	7 49.36	+42 24.3	1.717	2.648	8.5	20.0
1 12	7 35.90	+42 56.0	1.737	2.677	7.6	20.0
1 22	7 22.71	+43 0.8	1.784	2.706	9.0	20.1
2 1	7 11.44	+42 40.3	1.858	2.734	11.5	20.3
2 11	7 3.24	+42 0.1	1.956	2.762	14.1	20.6
2 21	6 58.58	+41 7.1	2.073	2.789	16.3	20.8

127555 2002 YT_{11} 1 12.9 72°.14 0°.4/12.8 17

12 13	8 2.98	+19 28.4	1.296	2.155	16.5	19.4
12 23	7 56.43	+20 23.4	1.246	2.171	11.7	19.2
1 2	7 46.91	+21 27.5	1.220	2.187	6.2	18.9
1 12	7 35.71	+22 33.6	1.220	2.203	0.6	18.6
1 22	7 24.45	+23 34.4	1.247	2.219	5.3	18.9
2 1	7 14.82	+24 24.7	1.300	2.235	10.5	19.3
2 11	7 8.07	+25 2.8	1.377	2.251	15.0	19.6
2 21	7 4.82	+25 29.1	1.474	2.266	18.6	19.9

521112 2015 DW_{245} 1 12.9 352°.09 5°.0/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 54.98	+ 5 41.1	2.193	3.001	12.6	21.0
12 23	7 49.90	+ 5 30.0	2.117	3.000	9.9	20.9
1 2	7 43.14	+ 5 33.6	2.065	2.999	7.1	20.7
1 12	7 35.38	+ 5 52.0	2.040	2.998	5.2	20.6
1 22	7 27.47	+ 6 23.7	2.044	2.997	5.7	20.6
2 1	7 20.27	+ 7 6.0	2.076	2.996	8.1	20.7
2 11	7 14.59	+ 7 55.1	2.134	2.996	10.9	20.9
2 21	7 10.94	+ 8 47.1	2.215	2.995	13.5	21.1

272900 2006 BH_{149} 1 12.9 316°.48 4°.0/14.6 18

12 13	7 56.16	+ 9 37.3	1.743	2.576	14.2	20.6
12 23	7 51.23	+ 9 50.1	1.658	2.562	10.8	20.3
1 2	7 44.08	+10 19.3	1.597	2.548	7.1	20.1
1 12	7 35.48	+11 3.9	1.562	2.535	4.2	19.9
1 22	7 26.50	+12 0.5	1.555	2.521	5.3	19.9
2 1	7 18.35	+13 4.5	1.575	2.509	9.1	20.1
2 11	7 12.10	+14 10.9	1.621	2.496	13.0	20.3
2 21	7 8.47	+15 15.2	1.688	2.485	16.4	20.5

420530 2012 FJ_{69} 1 12.9 135°.42 0°.1/12.9 18

12 13	7 59.34	+19 4.6	2.161	3.001	11.6	21.1
12 23	7 53.06	+19 56.3	2.094	3.010	8.2	20.9
1 2	7 44.86	+20 54.3	2.053	3.018	4.4	20.6
1 12	7 35.54	+21 54.4	2.042	3.026	0.4	20.3
1 22	7 26.04	+22 52.2	2.062	3.033	3.7	20.6
2 1	7 17.41	+23 44.0	2.112	3.040	7.5	20.9
2 11	7 10.52	+24 27.9	2.189	3.047	10.8	21.1
2 21	7 5.94	+25 3.3	2.289	3.054	13.6	21.3

323175 2003 GY_{22} 1 12.9 211°.41 3°.3/11.4 18

12 13	8 1.72	+31 10.5	2.543	3.381	10.1	21.4
12 23	7 54.72	+31 51.5	2.463	3.374	7.4	21.2
1 2	7 45.77	+32 29.1	2.410	3.366	4.6	21.0
1 12	7 35.63	+32 58.7	2.387	3.357	3.3	20.9
1 22	7 25.26	+33 17.1	2.395	3.348	5.0	21.0
2 1	7 15.68	+33 22.9	2.433	3.338	7.8	21.2
2 11	7 7.82	+33 17.0	2.497	3.328	10.6	21.4
2 21	7 2.25	+33 1.6	2.584	3.316	13.0	21.5

206143 2002 TJ_{84} 1 12.9 37°.67 3°.6/14.7 18

12 13	7 56.11	+ 9 44.0	1.805	2.637	13.9	19.4
12 23	7 50.89	+10 4.2	1.747	2.650	10.4	19.2
1 2	7 43.72	+10 39.6	1.713	2.664	6.7	19.0
1 12	7 35.45	+11 27.9	1.706	2.679	3.8	18.9
1 22	7 27.11	+12 25.3	1.727	2.694	4.9	19.0
2 1	7 19.76	+13 27.1	1.776	2.709	8.3	19.2
2 11	7 14.28	+14 28.9	1.851	2.725	11.7	19.4
2 21	7 11.20	+15 27.1	1.949	2.741	14.7	19.7

234491 2001 TW_{66} 1 12.9 100°.07 2°.2/13.7 18

12 13	8 2.85	+15 10.5	1.518	2.362	15.4	20.8
12 23	7 55.94	+15 21.5	1.463	2.377	11.2	20.6
1 2	7 46.51	+15 43.7	1.431	2.392	6.4	20.4
1 12	7 35.69	+16 13.9	1.427	2.407	2.3	20.1
1 22	7 24.85	+16 48.2	1.450	2.422	4.8	20.3
2 1	7 15.38	+17 22.9	1.501	2.436	9.4	20.6
2 11	7 8.38	+17 55.2	1.577	2.449	13.5	20.9
2 21	7 4.42	+18 23.5	1.674	2.463	16.9	21.2

219677 2001 VR_{105} 1 12.9 57°.74 4°.0/13.9 18

12 13	8 0.14	+12 19.0	1.740	2.574	14.2	19.9
12 23	7 53.81	+11 42.6	1.675	2.580	10.6	19.7
1 2	7 45.31	+11 16.8	1.634	2.586	6.8	19.4
1 12	7 35.60	+11 1.8	1.621	2.593	4.1	19.3
1 22	7 25.81	+10 56.9	1.635	2.600	5.5	19.4
2 1	7 17.13	+11 0.7	1.678	2.606	9.0	19.6
2 11	7 10.53	+11 10.7	1.746	2.613	12.6	19.8
2 21	7 6.56	+11 24.4	1.835	2.620	15.7	20.1

106458 2000 WT_{2} 1 12.9 38°.85 21°.0/24.9 18

12 13	7 58.34	−19 44.7	1.031	1.763	28.3	18.6
12 23	7 53.58	−21 10.3	0.988	1.771	26.0	18.5
1 2	7 45.58	−21 41.2	0.956	1.779	23.8	18.4
1 12	7 35.63	−21 7.4	0.938	1.788	22.0	18.3
1 22	7 25.47	−19 27.3	0.936	1.798	21.1	18.3
2 1	7 16.95	−16 48.7	0.951	1.808	21.3	18.3
2 11	7 11.52	−13 29.1	0.984	1.819	22.6	18.4
2 21	7 9.91	− 9 49.4	1.034	1.831	24.6	18.6

109077 2001 QR_{25} 1 12.9 57°.52 1°.4/13.4 18

12 13	8 5.08	+16 0.2	1.165	2.022	18.2	18.3
12 23	7 57.70	+16 39.8	1.135	2.057	12.9	18.1
1 2	7 47.43	+17 31.8	1.127	2.092	7.1	17.9
1 12	7 35.78	+18 29.7	1.145	2.127	1.6	17.6
1 22	7 24.49	+19 26.6	1.189	2.162	5.2	18.0
2 1	7 15.18	+20 17.4	1.260	2.198	10.4	18.4
2 11	7 8.95	+20 59.4	1.354	2.233	14.8	18.7
2 21	7 6.23	+21 32.0	1.467	2.267	18.3	19.1

409971 2006 VL_{51} 1 12.9 102°.37 9°.0/15.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 2.67	− 1 20.8	1.963	2.732	15.2	20.2
12 23	7 55.30	− 2 49.3	1.907	2.750	12.7	20.1
1 2	7 46.01	− 3 58.4	1.875	2.767	10.4	19.9
1 12	7 35.67	− 4 44.2	1.870	2.784	9.1	19.9
1 22	7 25.34	− 5 5.4	1.892	2.801	9.4	19.9
2 1	7 16.05	− 5 3.5	1.941	2.817	11.0	20.1
2 11	7 8.66	− 4 42.7	2.014	2.833	13.2	20.3
2 21	7 3.69	− 4 8.8	2.108	2.849	15.4	20.4

9876 1993 FY_{37} 1 12.9 68°.63 2°.9/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.86	+13 45.7	1.297	2.147	17.2	17.7
12 23	7 56.13	+13 57.1	1.252	2.168	12.5	17.5
1 2	7 46.66	+14 23.1	1.229	2.189	7.4	17.3
1 12	7 35.73	+15 0.0	1.231	2.211	3.1	17.1
1 22	7 24.90	+15 43.0	1.261	2.232	5.4	17.3
2 1	7 15.69	+16 27.3	1.317	2.254	10.1	17.6
2 11	7 9.24	+17 9.1	1.396	2.275	14.5	17.9
2 21	7 6.10	+17 45.9	1.496	2.296	18.0	18.2

234841 2002 RM_{174} 1 12.9 23°.68 2°.9/13.9 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 56.92	+13 59.9	1.687	2.533	14.0	19.7
12 23	7 51.60	+13 49.7	1.628	2.541	10.3	19.4
1 2	7 44.15	+13 50.2	1.592	2.550	6.2	19.2
1 12	7 35.51	+14 0.1	1.582	2.560	3.0	19.0
1 22	7 26.82	+14 17.1	1.601	2.571	4.7	19.2
2 1	7 19.23	+14 38.7	1.647	2.582	8.6	19.4
2 11	7 13.67	+15 2.0	1.718	2.594	12.3	19.7
2 21	7 10.70	+15 24.8	1.810	2.606	15.5	19.9

298321 2003 ED_{56} 1 12.9 197°.64 7°.3/18.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 53.86	− 8 46.8	3.081	3.793	11.4	21.2
12 23	7 48.75	− 8 58.5	2.998	3.791	9.9	21.1
1 2	7 42.42	− 8 52.2	2.938	3.788	8.5	21.0
1 12	7 35.37	− 8 26.6	2.904	3.785	7.5	20.9
1 22	7 28.19	− 7 42.2	2.896	3.782	7.4	20.9
2 1	7 21.50	− 6 41.4	2.917	3.779	8.2	21.0
2 11	7 15.88	− 5 27.8	2.964	3.775	9.6	21.1
2 21	7 11.75	− 4 6.1	3.035	3.771	11.2	21.2

142926 2002 VD_{60} 1 12.9 187°.83 7°.3/15.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.76	+ 1 17.5	1.977	2.766	14.5	20.2
12 23	7 52.72	+ 0 40.7	1.902	2.765	11.8	20.0
1 2	7 44.73	+ 0 22.5	1.851	2.765	9.2	19.9
1 12	7 35.58	+ 0 24.6	1.825	2.764	7.5	19.8
1 22	7 26.22	+ 0 46.6	1.827	2.763	7.8	19.8
2 1	7 17.71	+ 1 25.9	1.857	2.761	9.9	19.9
2 11	7 10.94	+ 2 17.9	1.911	2.759	12.6	20.1
2 21	7 6.51	+ 3 17.1	1.988	2.757	15.2	20.2

213332 2001 SV_{148} 1 12.9 161°.54 2°.1/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.57	+14 56.4	2.043	2.869	12.7	21.6
12 23	7 56.04	+14 59.2	1.972	2.878	9.3	21.4
1 2	7 46.47	+15 10.0	1.928	2.886	5.4	21.2
1 12	7 35.73	+15 27.1	1.913	2.892	2.2	21.0
1 22	7 24.88	+15 47.9	1.929	2.898	4.1	21.1
2 1	7 15.03	+16 10.3	1.975	2.903	7.9	21.4
2 11	7 7.11	+16 32.2	2.048	2.907	11.4	21.6
2 21	7 1.67	+16 52.5	2.144	2.910	14.4	21.8

522674 2016 GY_{266} 1 12.9 272°.73 1°.3/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.52	+17 5.7	2.173	3.012	11.5	21.5
12 23	7 51.79	+17 9.8	2.095	3.008	8.3	21.3
1 2	7 44.22	+17 20.3	2.042	3.004	4.7	21.0
1 12	7 35.54	+17 35.4	2.019	3.000	1.4	20.8
1 22	7 26.70	+17 52.7	2.025	2.996	3.7	21.0
2 1	7 18.65	+18 10.4	2.060	2.992	7.4	21.2
2 11	7 12.26	+18 26.9	2.122	2.988	10.8	21.4
2 21	7 8.08	+18 41.1	2.207	2.984	13.7	21.6

165845 2001 SP_{10} 1 12.9 203°.07 5°.5/16.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 55.34	+ 1 45.5	2.424	3.209	12.2	20.2
12 23	7 50.07	+ 1 54.5	2.344	3.208	9.8	20.0
1 2	7 43.23	+ 2 20.5	2.288	3.207	7.4	19.9
1 12	7 35.47	+ 3 3.2	2.259	3.206	5.7	19.8
1 22	7 27.54	+ 4 0.8	2.259	3.204	5.9	19.8
2 1	7 20.24	+ 5 9.6	2.289	3.203	7.8	19.9
2 11	7 14.31	+ 6 25.0	2.346	3.201	10.3	20.0
2 21	7 10.24	+ 7 42.6	2.427	3.199	12.7	20.2

146614 2001 TP_{211} 1 12.9 78°.48 2°.3/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.73	+16 37.5	1.734	2.574	14.0	19.7
12 23	7 55.54	+16 10.2	1.680	2.592	10.1	19.5
1 2	7 46.19	+15 49.7	1.651	2.611	5.9	19.3
1 12	7 35.72	+15 35.1	1.650	2.629	2.4	19.2
1 22	7 25.36	+15 25.3	1.678	2.648	4.5	19.3
2 1	7 16.28	+15 19.3	1.735	2.666	8.6	19.6
2 11	7 9.42	+15 16.0	1.817	2.684	12.2	19.9
2 21	7 5.27	+15 14.2	1.921	2.702	15.3	20.1

421462 2014 NC_{63} 1 12.9 44°.97 1°.6/12.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 6.35	+26 47.3	1.357	2.216	15.9	20.5
12 23	7 58.41	+26 27.3	1.319	2.243	11.2	20.3
1 2	7 47.75	+26 4.0	1.304	2.270	6.1	20.0
1 12	7 35.86	+25 34.5	1.316	2.298	1.7	19.8
1 22	7 24.41	+24 58.1	1.356	2.327	5.2	20.1
2 1	7 14.92	+24 16.4	1.423	2.356	9.9	20.5
2 11	7 8.40	+23 32.2	1.514	2.385	14.0	20.8
2 21	7 5.24	+22 47.9	1.625	2.414	17.3	21.1

152352 2005 UZ_{112} 1 12.9 241°.65 3°.1/13.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.03	+13 8.7	1.944	2.776	13.0	19.9
12 23	7 52.99	+12 53.2	1.867	2.773	9.7	19.7
1 2	7 44.92	+12 47.3	1.815	2.770	6.0	19.5
1 12	7 35.64	+12 50.3	1.791	2.767	3.2	19.3
1 22	7 26.17	+13 0.7	1.796	2.763	4.7	19.4
2 1	7 17.59	+13 16.7	1.830	2.760	8.3	19.6
2 11	7 10.86	+13 35.8	1.889	2.756	11.8	19.8
2 21	7 6.56	+13 55.9	1.971	2.753	14.9	20.0

148798 2001 UL_{75} 1 12.9 35°.42 2°.0/13.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.33	+15 4.5	1.479	2.331	15.3	19.3
12 23	7 52.86	+15 26.6	1.423	2.342	11.1	19.1
1 2	7 44.95	+16 1.1	1.391	2.353	6.4	18.9
1 12	7 35.64	+16 44.2	1.385	2.366	2.2	18.6
1 22	7 26.26	+17 31.5	1.406	2.378	4.7	18.8
2 1	7 18.14	+18 18.3	1.454	2.392	9.3	19.1
2 11	7 12.37	+19 1.1	1.526	2.405	13.4	19.4
2 21	7 9.53	+19 37.9	1.619	2.420	16.9	19.7

194723 2001 XR_{253} 1 12.9 9°.13 0°.9/12.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.66	+21 2.2	1.029	1.910	18.0	18.9
12 23	7 53.31	+21 42.3	0.976	1.911	12.9	18.6
1 2	7 45.54	+22 31.7	0.944	1.914	6.9	18.3
1 12	7 35.71	+23 23.4	0.935	1.918	1.0	17.9
1 22	7 25.66	+24 9.8	0.950	1.924	6.0	18.3
2 1	7 17.35	+24 45.6	0.988	1.931	11.9	18.6
2 11	7 12.29	+25 9.0	1.047	1.939	17.1	18.9
2 21	7 11.16	+25 20.4	1.124	1.949	21.2	19.2

48107 2001 FZ_{70} 1 12.9 170°.16 1°.2/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 4.87	+22 46.4	1.728	2.574	13.7	19.1
12 23	7 57.45	+23 26.4	1.660	2.578	9.7	18.9
1 2	7 47.44	+24 10.0	1.617	2.582	5.3	18.6
1 12	7 35.87	+24 51.8	1.602	2.585	1.3	18.4
1 22	7 24.10	+25 26.9	1.618	2.587	4.8	18.6
2 1	7 13.52	+25 52.4	1.662	2.588	9.3	18.9
2 11	7 5.33	+26 8.0	1.731	2.589	13.2	19.1
2 21	7 0.20	+26 14.7	1.822	2.589	16.5	19.4

34456 2000 SG_{88} 1 12.9 218°.99 1°.8/12.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.94	+24 34.3	2.068	2.915	11.7	19.3
12 23	7 53.74	+25 24.5	1.992	2.912	8.3	19.1
1 2	7 45.38	+26 17.1	1.943	2.907	4.6	18.9
1 12	7 35.69	+27 7.1	1.923	2.903	1.8	18.7
1 22	7 25.73	+27 50.0	1.933	2.899	4.5	18.8
2 1	7 16.65	+28 22.9	1.971	2.894	8.3	19.1
2 11	7 9.46	+28 44.9	2.037	2.889	11.8	19.3
2 21	7 4.80	+28 57.0	2.123	2.884	14.7	19.5

378842 2008 TD_{4} 1 12.9 236°.46 7°.6/14.9 13 C

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 9.26	+ 1 3.2	2.051	2.817	14.8	24.3
12 23	8 0.51	+ 0 24.8	1.941	2.792	12.2	24.1
1 2	7 49.19	+ 0 3.6	1.855	2.765	9.5	23.9
1 12	7 36.06	+ 0 2.3	1.798	2.735	7.7	23.7
1 22	7 22.22	+ 0 21.9	1.771	2.703	8.3	23.7
2 1	7 8.97	+ 1 0.6	1.775	2.669	10.9	23.8
2 11	6 57.54	+ 1 53.9	1.806	2.633	14.2	23.9
2 21	6 48.80	+ 2 56.3	1.860	2.594	17.4	24.0

163644 2002 VS_{3} 1 12.9 78°.23 0°.0/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.03	+21 6.9	2.179	3.023	11.4	20.3
12 23	7 52.73	+21 14.6	2.121	3.038	8.0	20.1
1 2	7 44.65	+21 25.2	2.089	3.053	4.3	19.9
1 12	7 35.62	+21 36.2	2.086	3.069	0.4	19.6
1 22	7 26.60	+21 45.3	2.113	3.084	3.5	19.9
2 1	7 18.55	+21 51.4	2.169	3.099	7.2	20.2
2 11	7 12.25	+21 53.8	2.252	3.115	10.4	20.4
2 21	7 8.20	+21 52.8	2.358	3.130	13.1	20.6

522481 2016 EA_{130} 1 12.9 82°.82 0°.8/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.92	+18 19.9	2.006	2.849	12.2	21.4
12 23	7 52.81	+18 31.7	1.943	2.859	8.7	21.2
1 2	7 44.76	+18 49.3	1.906	2.869	4.8	21.0
1 12	7 35.64	+19 10.3	1.897	2.880	1.0	20.7
1 22	7 26.46	+19 31.8	1.918	2.890	3.7	21.0
2 1	7 18.26	+19 51.7	1.968	2.900	7.6	21.2
2 11	7 11.91	+20 8.6	2.044	2.911	11.1	21.5
2 21	7 7.93	+20 21.7	2.143	2.921	14.0	21.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
201419 2002 XE_{42}			1 12.9 335°.79		0°.1/12.9 18	
	h m	° ′			°	m
12 13	8 0.96	+23 41.0	1.851	2.701	12.7	18.7
12 23	7 54.52	+23 7.2	1.770	2.690	9.1	18.5
1 2	7 45.79	+22 32.0	1.715	2.680	5.0	18.2
1 12	7 35.74	+21 54.1	1.687	2.671	0.4	17.9
1 22	7 25.54	+21 13.3	1.690	2.662	4.1	18.1
2 1	7 16.42	+20 30.3	1.721	2.653	8.5	18.4
2 11	7 9.42	+19 46.7	1.777	2.645	12.4	18.6
2 21	7 5.14	+19 4.0	1.856	2.638	15.7	18.8
202754 2007 PK_{46}			1 12.9 214°.72		0°.6/12.7 18	
12 13	7 58.68	+22 40.7	2.317	3.160	10.8	20.9
12 23	7 52.58	+22 57.3	2.240	3.157	7.6	20.7
1 2	7 44.65	+23 16.0	2.189	3.154	4.1	20.5
1 12	7 35.64	+23 33.8	2.168	3.151	0.7	20.2
1 22	7 26.48	+23 48.3	2.177	3.147	3.6	20.4
2 1	7 18.11	+23 57.9	2.216	3.144	7.2	20.6
2 11	7 11.40	+24 2.2	2.282	3.140	10.4	20.8
2 21	7 6.88	+24 1.4	2.370	3.136	13.2	21.0
378286 2007 EM_{129}			1 12.9 204°.01		3°.3/14.5 18	
12 13	7 57.83	+10 9.9	2.261	3.080	11.9	21.5
12 23	7 51.96	+10 15.2	2.180	3.076	9.0	21.3
1 2	7 44.32	+10 32.1	2.125	3.073	5.8	21.1
1 12	7 35.62	+10 59.5	2.097	3.069	3.5	21.0
1 22	7 26.72	+11 35.4	2.100	3.064	4.4	21.0
2 1	7 18.54	+12 16.8	2.133	3.060	7.5	21.2
2 11	7 11.90	+13 0.6	2.192	3.055	10.6	21.4
2 21	7 7.35	+13 44.1	2.275	3.049	13.4	21.6
456924 2007 XH_{50}			1 12.9 105°.39		3°.3/11.0 18	
12 13	7 59.85	+30 42.3	2.587	3.427	9.9	20.9
12 23	7 53.29	+31 46.6	2.533	3.445	7.2	20.7
1 2	7 44.99	+32 47.7	2.507	3.462	4.5	20.6
1 12	7 35.68	+33 40.6	2.511	3.479	3.3	20.5
1 22	7 26.27	+34 21.9	2.546	3.496	4.9	20.7
2 1	7 17.71	+34 49.7	2.610	3.512	7.5	20.9
2 11	7 10.79	+35 4.7	2.701	3.528	10.0	21.0
2 21	7 6.02	+35 8.6	2.815	3.543	12.2	21.2
101814 1999 JD_{8}			1 12.9 223°.34		6°.5/16.8 17	
12 13	7 54.71	− 8 26.6	3.787	4.488	9.6	22.3
12 23	7 49.23	− 8 58.2	3.690	4.473	8.4	22.2
1 2	7 42.68	− 9 16.0	3.617	4.458	7.3	22.1
1 12	7 35.48	− 9 18.5	3.572	4.443	6.6	22.0
1 22	7 28.11	− 9 5.4	3.554	4.426	6.6	22.0
2 1	7 21.10	− 8 37.8	3.565	4.409	7.3	22.0
2 11	7 14.94	− 7 57.8	3.602	4.391	8.5	22.1
2 21	7 10.02	− 7 8.7	3.663	4.373	9.9	22.2
398328 2011 PC_{10}			1 12.9 196°.00		2°.6/13.9 18	
12 13	8 1.84	+13 13.8	1.699	2.534	14.5	21.9
12 23	7 55.30	+13 33.2	1.623	2.532	10.7	21.6
1 2	7 46.31	+14 5.6	1.572	2.530	6.4	21.4
1 12	7 35.81	+14 48.4	1.548	2.527	2.8	21.2
1 22	7 25.02	+15 37.6	1.553	2.524	4.8	21.3
2 1	7 15.24	+16 28.8	1.587	2.520	9.1	21.5
2 11	7 7.63	+17 18.3	1.647	2.515	13.2	21.8
2 21	7 2.87	+18 3.4	1.727	2.511	16.7	22.0
397476 2007 PP_{26}			1 12.9 139°.07		0°.0/12.9 18	
12 13	8 4.28	+21 2.6	1.995	2.834	12.5	21.9
12 23	7 56.58	+21 14.2	1.933	2.848	8.8	21.7
1 2	7 46.79	+21 28.8	1.897	2.862	4.8	21.5
1 12	7 35.84	+21 43.3	1.891	2.874	0.4	21.2
1 22	7 24.88	+21 55.1	1.915	2.886	3.9	21.5
2 1	7 15.06	+22 2.6	1.970	2.898	7.9	21.7
2 11	7 7.30	+22 5.6	2.051	2.908	11.5	22.0
2 21	7 2.15	+22 4.5	2.154	2.918	14.4	22.2
146815 2001 YP_{101}			1 12.9 314°.24		1°.1/13.4 18	
12 13	7 58.60	+17 30.0	1.754	2.602	13.4	19.7
12 23	7 52.97	+17 43.9	1.678	2.596	9.7	19.4
1 2	7 45.04	+18 5.9	1.626	2.590	5.4	19.2
1 12	7 35.71	+18 33.4	1.601	2.584	1.3	18.9
1 22	7 26.10	+19 2.9	1.606	2.578	4.2	19.1
2 1	7 17.47	+19 31.5	1.638	2.573	8.7	19.3
2 11	7 10.89	+19 56.8	1.695	2.567	12.7	19.5
2 21	7 7.02	+20 17.7	1.774	2.562	16.1	19.8
398322 2011 NP_{2}			1 12.9 202°.48		1°.8/13.6 18	
12 13	8 2.35	+15 50.7	1.633	2.475	14.6	22.1
12 23	7 55.75	+16 6.8	1.558	2.473	10.6	21.8
1 2	7 46.59	+16 33.4	1.508	2.470	6.1	21.5
1 12	7 35.85	+17 7.5	1.485	2.466	1.9	21.3
1 22	7 24.80	+17 45.1	1.491	2.462	4.6	21.4
2 1	7 14.86	+18 22.6	1.524	2.458	9.3	21.7
2 11	7 7.20	+18 57.1	1.583	2.453	13.6	21.9
2 21	7 2.54	+19 26.9	1.663	2.448	17.1	22.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
364719 2007 VD_{72}			1 12.9 26°.39		3°.9/14.1 18	
	h m	° ′			°	m
12 13	7 58.86	+12 46.7	1.233	2.089	17.4	21.1
12 23	7 53.56	+12 36.4	1.179	2.097	12.9	20.8
1 2	7 45.45	+12 41.9	1.147	2.106	8.0	20.6
1 12	7 35.74	+13 1.8	1.139	2.116	4.1	20.4
1 22	7 25.96	+13 32.6	1.157	2.127	6.0	20.5
2 1	7 17.67	+14 9.8	1.200	2.139	10.6	20.8
2 11	7 12.08	+14 48.8	1.265	2.152	15.1	21.1
2 21	7 9.80	+15 25.9	1.350	2.165	18.9	21.4
258048 2001 NN_{4}			1 12.9 138°.58		1°.2/12.6 18	
12 13	8 2.60	+24 17.6	1.906	2.753	12.6	20.6
12 23	7 55.60	+24 31.5	1.840	2.759	8.9	20.4
1 2	7 46.36	+24 46.0	1.800	2.765	4.8	20.2
1 12	7 35.86	+24 57.4	1.789	2.771	1.2	19.9
1 22	7 25.28	+25 2.9	1.807	2.776	4.3	20.2
2 1	7 15.84	+25 1.5	1.854	2.782	8.4	20.4
2 11	7 8.55	+24 53.4	1.927	2.787	12.0	20.7
2 21	7 3.95	+24 40.1	2.022	2.791	15.0	20.9
220327 2003 FQ_{82}			1 12.9 275°.80		0°.9/13.3 18	
12 13	7 58.87	+17 34.0	1.915	2.759	12.7	20.3
12 23	7 53.13	+17 57.0	1.828	2.744	9.2	20.0
1 2	7 45.17	+18 28.3	1.765	2.729	5.1	19.7
1 12	7 35.78	+19 5.0	1.731	2.714	1.1	19.4
1 22	7 26.01	+19 43.3	1.726	2.699	4.0	19.6
2 1	7 17.05	+20 20.0	1.750	2.683	8.4	19.8
2 11	7 9.96	+20 52.6	1.800	2.668	12.3	20.0
2 21	7 5.44	+21 19.9	1.872	2.653	15.6	20.2
26224 1997 XF_{2}			1 12.9 174°.26		1°.3/13.5 18	
12 13	7 58.09	+17 13.7	2.494	3.327	10.5	19.1
12 23	7 51.99	+17 6.3	2.418	3.328	7.6	18.9
1 2	7 44.29	+17 3.7	2.369	3.329	4.3	18.7
1 12	7 35.69	+17 4.6	2.349	3.330	1.4	18.5
1 22	7 26.98	+17 7.8	2.360	3.331	3.3	18.6
2 1	7 19.02	+17 11.9	2.401	3.331	6.6	18.8
2 11	7 12.53	+17 16.0	2.470	3.331	9.6	19.0
2 21	7 8.00	+17 19.4	2.562	3.331	12.2	19.2
206926 2004 PM_{111}			1 12.9 117°.36		3°.3/14.0 18	
12 13	8 2.67	+12 53.4	1.650	2.484	14.8	20.5
12 23	7 55.73	+12 46.9	1.590	2.497	11.0	20.3
1 2	7 46.46	+12 52.3	1.554	2.510	6.7	20.1
1 12	7 35.89	+13 8.0	1.545	2.522	3.4	19.9
1 22	7 25.27	+13 31.5	1.565	2.533	5.1	20.0
2 1	7 15.88	+13 59.7	1.613	2.545	9.1	20.3
2 11	7 8.75	+14 29.5	1.687	2.556	12.9	20.5
2 21	7 4.45	+14 58.5	1.782	2.566	16.2	20.8
408992 2002 TP_{279}			1 12.9 98°.21		8°.4/10.6 18	
12 13	8 10.81	+43 34.5	1.806	2.631	14.2	20.7
12 23	8 1.87	+44 31.1	1.762	2.647	11.4	20.5
1 2	7 49.85	+45 10.5	1.742	2.662	9.2	20.4
1 12	7 36.21	+45 24.5	1.748	2.678	8.5	20.4
1 22	7 22.73	+45 9.9	1.780	2.693	9.7	20.5
2 1	7 11.17	+44 28.8	1.839	2.707	12.0	20.7
2 11	7 2.77	+43 27.4	1.921	2.722	14.5	20.9
2 21	6 58.04	+42 13.3	2.023	2.736	16.7	21.1
51030 2000 GQ_{115}			1 12.9 109°.19		0°.2/12.9 18	
12 13	8 0.96	+20 37.9	1.803	2.651	13.1	19.1
12 23	7 54.53	+21 6.0	1.740	2.659	9.3	18.8
1 2	7 45.84	+21 39.1	1.702	2.667	5.0	18.6
1 12	7 35.86	+22 13.3	1.692	2.675	0.5	18.3
1 22	7 25.76	+22 44.5	1.711	2.682	4.2	18.6
2 1	7 16.76	+23 10.1	1.758	2.690	8.5	18.9
2 11	7 9.89	+23 28.9	1.832	2.697	12.3	19.1
2 21	7 5.74	+23 41.1	1.927	2.704	15.4	19.3
232983 2005 EM_{132}			1 12.9 301°.03		1°.8/13.6 18	
12 13	7 57.55	+16 12.9	1.994	2.835	12.4	20.8
12 23	7 52.14	+16 12.9	1.900	2.814	9.0	20.5
1 2	7 44.63	+16 20.6	1.832	2.793	5.3	20.3
1 12	7 35.76	+16 34.5	1.792	2.773	1.9	20.0
1 22	7 26.53	+16 52.5	1.781	2.752	4.1	20.1
2 1	7 18.04	+17 12.2	1.798	2.732	8.1	20.3
2 11	7 11.29	+17 31.7	1.842	2.712	12.0	20.5
2 21	7 6.96	+17 49.6	1.907	2.692	15.3	20.7
93595 2000 UZ_{54}			1 12.9 341°.79		2°.2/12.1 18	
12 13	7 59.06	+24 26.3	1.729	2.587	13.2	19.0
12 23	7 53.47	+25 22.8	1.659	2.583	9.4	18.8
1 2	7 45.42	+26 22.9	1.614	2.580	5.2	18.5
1 12	7 35.84	+27 20.4	1.596	2.576	2.2	18.3
1 22	7 25.95	+28 9.6	1.607	2.574	5.2	18.5
2 1	7 17.11	+28 47.0	1.645	2.571	9.4	18.8
2 11	7 10.47	+29 11.5	1.708	2.569	13.2	19.0
2 21	7 6.72	+29 24.2	1.792	2.568	16.4	19.2

248028 2004 FJ_{130} 1 12.9 195°.95 1°.0/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	7 56.20	+16 13.4	2.512	3.346	10.4	20.4
12 23	7 50.74	+16 44.3	2.434	3.345	7.5	20.2
1 2	7 43.68	+17 22.5	2.383	3.344	4.2	20.0
1 12	7 35.67	+18 5.5	2.361	3.343	1.1	19.8
1 22	7 27.49	+18 50.1	2.370	3.342	3.2	19.9
2 1	7 19.95	+19 33.7	2.409	3.340	6.5	20.1
2 11	7 13.81	+20 14.0	2.476	3.339	9.6	20.3
2 21	7 9.58	+20 49.7	2.567	3.337	12.2	20.5

14570 Burkam 1 12.9 49°.68 1°.3/13.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.81	+18 19.4	1.198	2.060	17.4	18.3
12 23	7 56.48	+18 21.4	1.147	2.072	12.5	18.0
1 2	7 47.08	+18 32.7	1.118	2.084	6.9	17.8
1 12	7 35.98	+18 49.5	1.114	2.097	1.5	17.4
1 22	7 24.89	+19 8.0	1.136	2.110	5.3	17.7
2 1	7 15.51	+19 24.9	1.184	2.123	10.7	18.1
2 11	7 9.13	+19 38.6	1.254	2.137	15.5	18.4
2 21	7 6.34	+19 48.2	1.343	2.151	19.3	18.7

372926 2011 BR_{22} 1 12.9 113°.45 1°.0/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.00	+17 7.2	2.020	2.860	12.3	21.3
12 23	7 52.95	+17 31.2	1.953	2.867	8.8	21.1
1 2	7 44.93	+18 2.7	1.912	2.874	4.9	20.9
1 12	7 35.79	+18 38.8	1.899	2.881	1.2	20.7
1 22	7 26.52	+19 16.0	1.916	2.888	3.7	20.9
2 1	7 18.18	+19 51.3	1.963	2.895	7.7	21.1
2 11	7 11.65	+20 22.7	2.036	2.902	11.2	21.4
2 21	7 7.50	+20 49.1	2.131	2.908	14.1	21.6

383676 2007 TT_{214} 1 12.9 89°.55 2°.2/11.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.81	+26 26.9	2.329	3.175	10.6	20.7
12 23	7 52.68	+27 14.9	2.270	3.188	7.5	20.5
1 2	7 44.74	+28 2.6	2.238	3.201	4.3	20.4
1 12	7 35.77	+28 45.7	2.236	3.215	2.2	20.2
1 22	7 26.72	+29 20.6	2.264	3.228	4.3	20.4
2 1	7 18.56	+29 45.5	2.322	3.240	7.5	20.6
2 11	7 12.10	+30 0.0	2.406	3.253	10.4	20.8
2 21	7 7.86	+30 5.6	2.513	3.266	12.8	21.0

161637 2006 AM_{58} 1 12.9 255°.17 4°.5/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.69	+31 36.6	2.140	2.987	11.4	19.7
12 23	7 54.48	+33 1.6	2.068	2.981	8.4	19.5
1 2	7 45.94	+34 24.4	2.022	2.976	5.6	19.3
1 12	7 35.90	+35 38.0	2.006	2.970	4.6	19.3
1 22	7 25.47	+36 36.5	2.020	2.965	6.4	19.4
2 1	7 15.90	+37 16.8	2.062	2.959	9.4	19.6
2 11	7 8.30	+37 39.2	2.129	2.953	12.4	19.7
2 21	7 3.38	+37 46.3	2.216	2.948	15.0	19.9

382121 2011 HG_{77} 1 12.9 106°.34 5°.1/ 9.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 2.39	+34 46.2	2.422	3.259	10.6	20.5
12 23	7 55.45	+36 26.6	2.369	3.273	8.0	20.3
1 2	7 46.36	+38 1.2	2.344	3.286	5.8	20.2
1 12	7 35.94	+39 23.1	2.349	3.300	5.2	20.2
1 22	7 25.25	+40 27.3	2.384	3.313	6.7	20.3
2 1	7 15.44	+41 11.3	2.449	3.325	9.0	20.5
2 11	7 7.52	+41 36.4	2.538	3.338	11.4	20.6
2 21	7 2.11	+41 45.5	2.649	3.350	13.4	20.8

466676 2014 WM_{213} 1 12.9 57°.54 0°.3/13.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.98	+20 7.7	1.771	2.621	13.3	21.4
12 23	7 53.84	+20 19.3	1.709	2.628	9.4	21.2
1 2	7 45.48	+20 35.9	1.671	2.636	5.1	20.9
1 12	7 35.86	+20 54.3	1.660	2.643	0.6	20.6
1 22	7 26.15	+21 11.6	1.679	2.651	4.1	20.9
2 1	7 17.56	+21 25.5	1.725	2.659	8.4	21.2
2 11	7 11.09	+21 35.1	1.797	2.667	12.2	21.4
2 21	7 7.31	+21 40.2	1.891	2.675	15.4	21.7

304788 Cresques 1 12.9 112°.90 4°.2/14.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.81	+ 8 6.0	1.822	2.637	14.5	21.1
12 23	7 54.93	+ 8 24.0	1.765	2.657	10.9	20.9
1 2	7 45.99	+ 8 58.2	1.732	2.677	7.2	20.8
1 12	7 35.90	+ 9 46.5	1.726	2.696	4.4	20.6
1 22	7 25.79	+10 45.0	1.750	2.714	5.3	20.7
2 1	7 16.77	+11 48.9	1.804	2.731	8.6	21.0
2 11	7 9.76	+12 53.6	1.884	2.748	12.0	21.2
2 21	7 5.31	+13 55.3	1.986	2.765	14.9	21.4

286194 2001 UP_{64} 1 12.9 44°.88 8°.3/10.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 6.72	+45 53.5	2.056	2.874	12.9	20.1
12 23	7 58.78	+46 39.9	2.010	2.886	10.7	20.0
1 2	7 48.14	+47 9.2	1.988	2.898	8.9	19.9
1 12	7 36.09	+47 15.1	1.992	2.910	8.4	19.9
1 22	7 24.18	+46 54.8	2.022	2.923	9.3	20.0
2 1	7 13.92	+46 10.2	2.078	2.936	11.3	20.1
2 11	7 6.43	+45 6.4	2.158	2.949	13.4	20.3
2 21	7 2.19	+43 50.2	2.258	2.963	15.4	20.5

210250 2007 RY_{242} 1 12.9 50°.05 1°.4/12.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 13	8 2.75	+23 0.9	1.289	2.154	16.2	19.9
12 23	7 56.29	+23 34.6	1.245	2.172	11.5	19.7
1 2	7 46.93	+24 11.8	1.224	2.191	6.2	19.4
1 12	7 35.99	+24 46.3	1.228	2.210	1.4	19.2
1 22	7 25.15	+25 13.0	1.259	2.230	5.4	19.5
2 1	7 16.01	+25 29.4	1.316	2.250	10.4	19.8
2 11	7 9.80	+25 35.7	1.396	2.270	14.7	20.1
2 21	7 7.02	+25 33.4	1.495	2.291	18.2	20.4

332665 2008 WM_{81} 1 12.9 63°.89 3°.7/11.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 0.28	+29 4.3	2.001	2.852	11.9	20.0
12 23	7 54.04	+30 21.1	1.949	2.867	8.6	19.8
1 2	7 45.60	+31 35.8	1.924	2.883	5.3	19.7
1 12	7 35.88	+32 42.0	1.927	2.899	3.7	19.6
1 22	7 26.05	+33 34.5	1.960	2.914	5.7	19.7
2 1	7 17.27	+34 10.8	2.021	2.930	8.9	20.0
2 11	7 10.56	+34 31.2	2.107	2.946	12.0	20.2
2 21	7 6.49	+34 38.1	2.215	2.962	14.5	20.4

62013 2000 RM_{41} 1 12.9 161°.54 1°.7/13.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.60	+17 3.1	1.893	2.728	13.2	19.6
12 23	7 56.28	+16 55.4	1.824	2.734	9.5	19.4
1 2	7 46.77	+16 54.0	1.779	2.740	5.4	19.2
1 12	7 36.00	+16 57.3	1.764	2.745	1.8	18.9
1 22	7 25.13	+17 3.1	1.778	2.749	4.2	19.1
2 1	7 15.35	+17 10.0	1.822	2.752	8.3	19.4
2 11	7 7.63	+17 16.6	1.892	2.755	12.0	19.6
2 21	7 2.56	+17 22.3	1.984	2.757	15.2	19.8

363148 2001 RO_{149} 1 12.9 118°.94 4°.6/14.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.16	+ 7 35.4	1.951	2.765	13.7	21.4
12 23	7 53.04	+ 7 34.3	1.885	2.776	10.5	21.3
1 2	7 44.99	+ 7 48.4	1.844	2.786	7.1	21.1
1 12	7 35.85	+ 8 16.8	1.830	2.796	4.7	21.0
1 22	7 26.60	+ 8 57.0	1.845	2.805	5.5	21.0
2 1	7 18.28	+ 9 45.6	1.889	2.814	8.4	21.2
2 11	7 11.78	+10 38.2	1.959	2.823	11.6	21.4
2 21	7 7.62	+11 31.1	2.052	2.832	14.5	21.6

181478 2006 TR_{88} 1 12.9 71°.03 1°.5/12.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 1.94	+24 19.6	1.674	2.528	13.7	20.7
12 23	7 55.42	+24 42.1	1.611	2.533	9.7	20.5
1 2	7 46.42	+25 5.9	1.573	2.539	5.3	20.2
1 12	7 35.99	+25 26.5	1.563	2.545	1.5	20.0
1 22	7 25.45	+25 40.3	1.581	2.550	4.8	20.2
2 1	7 16.17	+25 45.5	1.627	2.556	9.2	20.5
2 11	7 9.26	+25 42.5	1.697	2.562	13.1	20.8
2 21	7 5.31	+25 32.7	1.789	2.568	16.3	21.0

379960 2012 QC_{6} 1 12.9 135°.92 0°.5/12.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 58.35	+22 13.0	2.473	3.314	10.3	21.2
12 23	7 52.26	+22 36.5	2.405	3.321	7.3	21.0
1 2	7 44.50	+23 2.3	2.363	3.328	3.9	20.8
1 12	7 35.81	+23 27.5	2.352	3.335	0.6	20.6
1 22	7 27.02	+23 49.5	2.371	3.342	3.4	20.8
2 1	7 19.02	+24 6.7	2.421	3.348	6.7	21.0
2 11	7 12.56	+24 18.4	2.497	3.354	9.7	21.3
2 21	7 8.14	+24 24.7	2.597	3.360	12.2	21.4

163689 2003 BG_{2} 1 12.9 52°.33 5°.7/16.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 57.55	+ 2 29.9	1.898	2.697	14.6	19.8
12 23	7 51.80	+ 2 54.5	1.851	2.726	11.5	19.6
1 2	7 44.26	+ 3 39.5	1.826	2.755	8.3	19.5
1 12	7 35.78	+ 4 42.9	1.829	2.784	6.0	19.4
1 22	7 27.36	+ 6 0.6	1.860	2.813	6.2	19.5
2 1	7 19.94	+ 7 26.9	1.920	2.843	8.5	19.7
2 11	7 14.33	+ 8 55.6	2.007	2.872	11.3	19.9
2 21	7 10.98	+10 21.7	2.117	2.902	13.9	20.1

62493 2000 SK_{225} 1 13.0 168°.35 1°.1/13.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	7 59.30	+17 17.8	2.062	2.901	12.1	19.6
12 23	7 53.19	+17 32.6	1.989	2.902	8.7	19.4
1 2	7 45.12	+17 54.3	1.942	2.904	4.9	19.2
1 12	7 35.89	+18 20.3	1.923	2.905	1.2	18.9
1 22	7 26.49	+18 48.0	1.934	2.906	3.7	19.1
2 1	7 17.98	+19 14.6	1.975	2.907	7.6	19.3
2 11	7 11.25	+19 38.5	2.042	2.908	11.2	19.6
2 21	7 6.87	+19 58.5	2.132	2.908	14.1	19.8

108894 2001 PC_{3} 1 13.0 167°.98 0°.0/12.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 13	8 3.19	+22 4.5	2.193	3.030	11.5	19.8
12 23	7 55.79	+21 57.5	2.120	3.034	8.2	19.6
1 2	7 46.45	+21 51.7	2.074	3.037	4.4	19.4
1 12	7 36.01	+21 45.1	2.057	3.041	0.4	19.1
1 22	7 25.50	+21 36.0	2.072	3.043	3.6	19.3
2 1	7 15.97	+21 23.9	2.117	3.045	7.5	19.6
2 11	7 8.31	+21 9.1	2.189	3.046	10.9	19.8
2 21	7 3.05	+20 52.3	2.284	3.047	13.7	20.0