184740 2005 SS_{217} 1 27.9 261°.23 6°.6/ 1.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.03	− 1 2.8	2.030	2.766	15.8	19.8
1 2	8 57.94	− 1 23.5	1.929	2.754	13.3	19.6
1 12	8 51.67	− 1 23.9	1.849	2.742	10.5	19.4
1 22	8 43.72	− 1 2.4	1.793	2.729	7.8	19.2
2 1	8 34.91	− 0 19.5	1.764	2.716	6.6	19.1
2 11	8 26.28	+ 0 41.3	1.762	2.703	7.8	19.1
2 21	8 18.82	+ 1 54.4	1.788	2.690	10.6	19.3
3 2	8 13.35	+ 3 13.0	1.838	2.677	13.7	19.4

327341 2005 UR_{173} 1 27.9 146°.27 0°.5/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.96	+15 20.1	2.061	2.855	13.7	21.6
1 2	9 0.01	+15 36.3	1.979	2.860	10.6	21.4
1 12	8 52.85	+16 1.7	1.921	2.864	6.8	21.2
1 22	8 44.11	+16 33.5	1.891	2.868	2.7	21.0
2 1	8 34.70	+17 7.6	1.889	2.872	1.7	20.9
2 11	8 25.69	+17 39.9	1.918	2.876	5.8	21.2
2 21	8 18.03	+18 7.3	1.974	2.880	9.6	21.4
3 2	8 12.48	+18 27.9	2.055	2.883	12.9	21.6

450749 2007 HY_{74} 1 27.9 197°.80 4°.5/25.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.00	+26 47.1	1.735	2.550	15.1	21.8
1 2	9 4.61	+27 52.4	1.656	2.548	11.6	21.5
1 12	8 56.20	+29 1.0	1.601	2.545	7.8	21.3
1 22	8 45.50	+30 4.9	1.572	2.542	4.8	21.1
2 1	8 33.74	+30 55.4	1.572	2.538	5.5	21.2
2 11	8 22.47	+31 27.0	1.600	2.534	9.1	21.3
2 21	8 13.07	+31 38.2	1.654	2.530	12.9	21.6
3 2	8 6.54	+31 30.6	1.729	2.524	16.3	21.8

239254 2006 UL_{323} 1 27.9 183°.79 2°.8/30.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.32	+ 6 43.3	2.594	3.355	12.1	21.3
1 2	8 56.08	+ 6 54.8	2.501	3.355	9.7	21.2
1 12	8 50.17	+ 7 19.2	2.432	3.354	6.9	21.0
1 22	8 43.06	+ 7 55.4	2.391	3.354	4.1	20.8
2 1	8 35.41	+ 8 40.9	2.379	3.354	2.9	20.7
2 11	8 27.99	+ 9 32.1	2.397	3.353	5.0	20.8
2 21	8 21.52	+10 25.2	2.445	3.352	7.9	21.0
3 2	8 16.59	+11 16.6	2.519	3.351	10.6	21.2

270694 2002 QQ_{59} 1 27.9 123°.09 4°.0/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.18	+ 4 26.0	2.253	3.010	13.8	20.9
1 2	8 56.95	+ 4 24.6	2.166	3.013	11.2	20.8
1 12	8 50.82	+ 4 38.9	2.101	3.016	8.2	20.6
1 22	8 43.33	+ 5 8.4	2.063	3.019	5.3	20.4
2 1	8 35.23	+ 5 50.8	2.053	3.022	4.1	20.3
2 11	8 27.43	+ 6 42.3	2.072	3.025	5.9	20.5
2 21	8 20.74	+ 7 38.4	2.120	3.027	8.9	20.6
3 2	8 15.83	+ 8 34.5	2.193	3.030	11.8	20.8

369639 2011 ED_{45} 1 27.9 62°.66 3°.7/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.51	+ 5 54.3	1.825	2.600	16.0	20.9
1 2	8 58.24	+ 6 6.1	1.757	2.618	12.7	20.8
1 12	8 51.74	+ 6 36.3	1.710	2.635	9.0	20.6
1 22	8 43.69	+ 7 23.0	1.688	2.653	5.3	20.4
2 1	8 35.03	+ 8 22.4	1.695	2.670	3.8	20.3
2 11	8 26.87	+ 9 28.8	1.730	2.688	6.3	20.5
2 21	8 20.16	+10 36.0	1.793	2.706	9.9	20.8
3 2	8 15.61	+11 39.0	1.880	2.724	13.2	21.0

188710 2005 TR_{101} 1 27.9 161°.92 1°.1/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.45	+18 13.1	1.854	2.653	14.9	21.2
1 2	9 3.74	+19 0.1	1.775	2.660	11.3	21.0
1 12	8 55.40	+19 56.7	1.721	2.666	7.2	20.7
1 22	8 45.14	+20 57.4	1.693	2.672	2.8	20.5
2 1	8 34.03	+21 55.5	1.696	2.677	2.5	20.5
2 11	8 23.38	+22 45.4	1.728	2.681	6.9	20.7
2 21	8 14.37	+23 23.4	1.788	2.684	11.0	21.0
3 2	8 7.87	+23 48.5	1.872	2.686	14.5	21.2

491249 2011 UC_{237} 1 27.9 139°.20 0°.8/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.17	+18 44.0	1.931	2.729	14.4	22.3
1 2	9 3.32	+19 13.5	1.857	2.741	11.0	22.1
1 12	8 55.00	+19 50.4	1.807	2.753	7.0	21.9
1 22	8 44.94	+20 30.1	1.785	2.764	2.6	21.6
2 1	8 34.19	+21 7.5	1.793	2.774	2.2	21.6
2 11	8 23.98	+21 38.0	1.830	2.784	6.4	21.9
2 21	8 15.38	+21 59.1	1.896	2.793	10.3	22.2
3 2	8 9.16	+22 10.3	1.985	2.802	13.7	22.4

304846 2007 RM_{49} 1 27.9 39°.04 2°.0/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.25	+21 20.5	1.341	2.170	17.9	21.2
1 2	9 2.77	+21 43.8	1.279	2.180	13.6	20.9
1 12	8 55.06	+22 14.2	1.239	2.190	8.6	20.7
1 22	8 45.04	+22 45.5	1.222	2.201	3.5	20.4
2 1	8 34.16	+23 10.8	1.232	2.212	3.4	20.4
2 11	8 24.11	+23 25.1	1.268	2.224	8.3	20.7
2 21	8 16.31	+23 26.6	1.329	2.237	13.1	21.0
3 2	8 11.65	+23 15.9	1.411	2.250	17.0	21.3

511758 2015 DF_{175} 1 27.9 276°.58 4°.7/30.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 1.84	+ 3 38.5	2.457	3.204	13.1	20.9
1 2	8 57.41	+ 3 6.6	2.351	3.189	10.8	20.8
1 12	8 51.14	+ 2 47.5	2.268	3.174	8.2	20.6
1 22	8 43.49	+ 2 42.2	2.211	3.159	5.7	20.4
2 1	8 35.15	+ 2 50.4	2.183	3.144	4.8	20.3
2 11	8 26.97	+ 3 10.0	2.184	3.128	6.3	20.4
2 21	8 19.76	+ 3 38.1	2.213	3.113	8.9	20.5
3 2	8 14.19	+ 4 11.0	2.267	3.098	11.7	20.6

413684 2005 WL_{173} 1 27.9 60°.06 1°.7/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.62	+20 6.6	1.685	2.500	15.4	21.5
1 2	9 0.86	+20 52.5	1.627	2.520	11.6	21.3
1 12	8 53.51	+21 45.9	1.592	2.541	7.3	21.1
1 22	8 44.38	+22 40.7	1.583	2.561	3.0	20.8
2 1	8 34.62	+23 30.2	1.603	2.582	3.0	20.9
2 11	8 25.54	+24 9.4	1.650	2.603	7.1	21.2
2 21	8 18.23	+24 35.5	1.725	2.624	11.1	21.5
3 2	8 13.46	+24 48.3	1.822	2.645	14.5	21.7

86709 2000 GR_{5} 1 27.9 216°.70 2°.0/29.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.85	+12 0.1	1.796	2.584	15.7	20.2
1 2	9 2.67	+12 1.7	1.703	2.577	12.4	19.9
1 12	8 54.83	+12 16.3	1.632	2.569	8.3	19.7
1 22	8 44.99	+12 42.0	1.587	2.561	4.0	19.4
2 1	8 34.15	+13 15.2	1.571	2.553	2.5	19.3
2 11	8 23.63	+13 51.3	1.585	2.543	6.7	19.5
2 21	8 14.63	+14 26.0	1.625	2.534	11.0	19.8
3 2	8 8.10	+14 56.0	1.689	2.523	14.9	20.0

389886 2012 SS_{61} 1 27.9 147°.56 1°.7/29.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.79	+10 52.7	2.659	3.431	11.6	21.4
1 2	8 57.11	+11 3.7	2.573	3.438	9.0	21.2
1 12	8 50.79	+11 24.5	2.511	3.444	6.1	21.1
1 22	8 43.30	+11 53.4	2.478	3.450	3.1	20.9
2 1	8 35.33	+12 27.8	2.475	3.455	1.9	20.8
2 11	8 27.63	+13 4.6	2.503	3.461	4.6	21.0
2 21	8 20.92	+13 40.6	2.560	3.466	7.6	21.2
3 2	8 15.76	+14 13.4	2.643	3.470	10.3	21.4

424861 2008 UH_{358} 1 27.9 46°.90 2°.3/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.65	+23 14.9	1.739	2.556	15.0	20.8
1 2	9 1.50	+23 40.2	1.685	2.579	11.3	20.6
1 12	8 53.82	+24 8.6	1.654	2.603	7.2	20.4
1 22	8 44.47	+24 34.9	1.650	2.627	3.2	20.2
2 1	8 34.61	+24 54.1	1.674	2.652	3.3	20.3
2 11	8 25.52	+25 2.7	1.726	2.677	7.1	20.5
2 21	8 18.24	+25 0.0	1.805	2.702	10.8	20.8
3 2	8 13.48	+24 46.7	1.906	2.727	14.0	21.1

194059 2001 SY_{123} 1 27.9 179°.01 0°.5/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.39	+15 48.0	1.780	2.576	15.5	21.6
1 2	9 3.77	+15 58.2	1.696	2.578	12.0	21.3
1 12	8 55.48	+16 18.4	1.636	2.579	7.8	21.1
1 22	8 45.20	+16 45.3	1.601	2.579	3.1	20.8
2 1	8 34.05	+17 14.3	1.596	2.579	1.9	20.7
2 11	8 23.36	+17 41.0	1.621	2.578	6.6	21.0
2 21	8 14.33	+18 2.1	1.672	2.577	11.0	21.3
3 2	8 7.85	+18 16.0	1.747	2.575	14.8	21.5

236000 2005 GK_{22} 1 28.0 19°.47 0°.7/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.16	+16 48.7	2.003	2.810	13.6	19.9
1 2	8 57.30	+17 41.3	1.923	2.812	10.4	19.7
1 12	8 51.23	+18 44.5	1.867	2.814	6.6	19.5
1 22	8 43.56	+19 53.7	1.838	2.817	2.5	19.2
2 1	8 35.17	+21 2.7	1.838	2.820	2.1	19.2
2 11	8 27.12	+22 5.7	1.868	2.823	6.2	19.5
2 21	8 20.38	+22 58.6	1.925	2.827	10.0	19.7
3 2	8 15.72	+23 39.0	2.006	2.831	13.3	19.9

371680 2007 DG_{29} 1 28.0 319°.61 8°.1/24.6 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.70	+36 35.3	1.557	2.376	16.3	20.3
1 2	9 6.63	+37 17.4	1.472	2.357	13.2	20.1
1 12	8 57.87	+37 52.2	1.408	2.338	10.1	19.8
1 22	8 46.26	+38 9.4	1.369	2.320	8.2	19.7
2 1	8 33.36	+38 0.4	1.356	2.302	8.9	19.7
2 11	8 21.12	+37 21.8	1.368	2.285	11.8	19.8
2 21	8 11.30	+36 16.1	1.403	2.268	15.4	20.0
3 2	8 5.04	+34 49.9	1.459	2.253	18.8	20.1

36912 2000 SA_{188} 1 28.0 102°.82 1°.7/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.35	+11 26.0	1.980	2.768	14.4	19.3
1 2	8 58.86	+11 45.7	1.901	2.776	11.2	19.1
1 12	8 52.17	+12 18.6	1.845	2.783	7.5	18.9
1 22	8 43.91	+13 2.0	1.816	2.790	3.5	18.7
2 1	8 34.97	+13 51.9	1.815	2.797	2.1	18.6
2 11	8 26.44	+14 43.1	1.845	2.804	5.8	18.8
2 21	8 19.26	+15 31.3	1.901	2.811	9.6	19.1
3 2	8 14.17	+16 13.2	1.982	2.818	13.0	19.3

135894 2002 TT_{73} 1 28.0 132°.63 1°.5/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.19	+21 28.7	2.079	2.877	13.5	20.4
1 2	9 3.17	+21 52.8	2.006	2.891	10.2	20.2
1 12	8 54.84	+22 21.3	1.958	2.903	6.5	20.0
1 22	8 44.90	+22 49.5	1.938	2.916	2.7	19.7
2 1	8 34.35	+23 12.9	1.948	2.927	2.5	19.8
2 11	8 24.34	+23 28.2	1.988	2.938	6.3	20.0
2 21	8 15.88	+23 33.9	2.056	2.949	9.9	20.3
3 2	8 9.68	+23 30.2	2.148	2.959	13.0	20.5

419253 2009 VB_{68} 1 28.0 84°.86 3°.7/25.7 18

12 23	9 6.12	+26 21.1	1.973	2.787	13.5	20.9
1 2	9 1.12	+27 13.2	1.905	2.797	10.3	20.7
1 12	8 53.67	+28 7.2	1.861	2.806	6.8	20.5
1 22	8 44.49	+28 56.5	1.845	2.816	4.0	20.3
2 1	8 34.61	+29 35.2	1.857	2.825	4.5	20.4
2 11	8 25.27	+29 59.2	1.898	2.835	7.6	20.6
2 21	8 17.53	+30 7.4	1.965	2.844	11.0	20.8
3 2	8 12.16	+30 0.8	2.055	2.854	13.9	21.0

347864 2002 RW_{213} 1 28.0 163°.67 0°.9/27.5 18

12 23	9 9.97	+17 47.6	1.800	2.599	15.3	21.7
1 2	9 4.22	+18 30.4	1.721	2.605	11.7	21.5
1 12	8 55.77	+19 23.3	1.666	2.611	7.4	21.2
1 22	8 45.34	+20 20.9	1.638	2.617	2.8	21.0
2 1	8 34.03	+21 16.6	1.639	2.621	2.4	20.9
2 11	8 23.19	+22 4.5	1.671	2.624	6.9	21.2
2 21	8 14.05	+22 41.1	1.729	2.627	11.2	21.5
3 2	8 7.48	+23 5.2	1.812	2.628	14.8	21.7

387684 2002 TO_{270} 1 28.0 155°.64 3°.9/26.1 18

12 23	9 14.17	+26 47.7	1.802	2.607	15.0	21.9
1 2	9 7.48	+27 31.8	1.730	2.616	11.5	21.7
1 12	8 57.85	+28 17.2	1.682	2.625	7.6	21.5
1 22	8 46.11	+28 56.3	1.661	2.632	4.3	21.3
2 1	8 33.54	+29 22.6	1.670	2.639	4.8	21.3
2 11	8 21.65	+29 32.1	1.707	2.645	8.3	21.6
2 21	8 11.74	+29 24.6	1.772	2.650	12.0	21.8
3 2	8 4.70	+29 2.5	1.859	2.654	15.3	22.0

130543 2000 QH_{216} 1 28.0 40°.25 2°.0/27.2 18

12 23	9 7.35	+20 49.6	1.185	2.022	19.3	19.5
1 2	9 3.07	+21 17.8	1.134	2.038	14.6	19.2
1 12	8 55.33	+21 54.6	1.103	2.056	9.3	19.0
1 22	8 45.17	+22 32.6	1.095	2.074	3.7	18.7
2 1	8 34.21	+23 4.2	1.112	2.093	3.5	18.8
2 11	8 24.29	+23 23.7	1.156	2.113	8.8	19.1
2 21	8 16.86	+23 29.1	1.222	2.133	13.7	19.5
3 2	8 12.80	+23 21.1	1.309	2.154	17.7	19.8

63616 2001 QN_{78} 1 28.0 62°.33 7°.8/ 2.2 18

12 23	9 2.30	− 3 25.9	1.785	2.519	17.8	18.6
1 2	8 58.20	− 3 55.2	1.712	2.531	15.0	18.4
1 12	8 51.82	− 4 0.3	1.659	2.543	12.0	18.3
1 22	8 43.79	− 3 39.2	1.628	2.555	9.3	18.1
2 1	8 35.09	− 2 53.1	1.623	2.568	7.9	18.1
2 11	8 26.83	− 1 46.4	1.645	2.580	8.7	18.1
2 21	8 20.01	− 0 26.2	1.692	2.593	11.2	18.3
3 2	8 15.39	+ 0 59.5	1.764	2.605	14.0	18.5

458422 2011 AH_{26} 1 28.0 211°.43 6°.1/23.4 18

12 23	9 6.72	+31 41.6	2.016	2.830	13.3	20.9
1 2	9 1.92	+33 16.0	1.942	2.828	10.4	20.7
1 12	8 54.42	+34 50.5	1.892	2.826	7.7	20.5
1 22	8 44.87	+36 16.1	1.870	2.823	6.1	20.4
2 1	8 34.33	+37 24.4	1.876	2.820	7.0	20.4
2 11	8 24.15	+38 10.1	1.911	2.817	9.6	20.6
2 21	8 15.57	+38 31.9	1.970	2.814	12.6	20.8
3 2	8 9.54	+38 31.9	2.051	2.811	15.2	20.9

299397 2005 XP_{42} 1 28.0 245°.57 2°.8/26.5 18

12 23	9 7.99	+21 55.5	1.629	2.445	15.8	21.2
1 2	9 3.30	+22 50.6	1.540	2.434	12.1	20.9
1 12	8 55.54	+23 54.7	1.473	2.422	7.9	20.6
1 22	8 45.37	+25 0.9	1.433	2.410	3.7	20.3
2 1	8 33.97	+26 0.6	1.421	2.398	4.1	20.3
2 11	8 22.89	+26 46.8	1.437	2.385	8.5	20.6
2 21	8 13.58	+27 15.9	1.479	2.372	13.0	20.8
3 2	8 7.17	+27 27.7	1.542	2.358	17.0	21.0

306428 1998 SL_{16} 1 28.0 107°.12 5°.9/24.9 18

12 23	9 12.79	+32 47.8	1.853	2.662	14.5	20.9
1 2	9 6.38	+33 41.2	1.794	2.677	11.3	20.7
1 12	8 57.08	+34 30.2	1.758	2.692	8.1	20.5
1 22	8 45.79	+35 6.8	1.750	2.707	6.0	20.4
2 1	8 33.82	+35 24.5	1.769	2.721	6.6	20.5
2 11	8 22.67	+35 20.7	1.817	2.735	9.3	20.7
2 21	8 13.57	+34 56.7	1.890	2.748	12.3	20.9
3 2	8 7.33	+34 16.4	1.985	2.762	15.1	21.1

156063 2001 SQ_{61} 1 28.0 147°.81 3°.5/30.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.86	+ 7 22.0	1.765	2.540	16.5	20.7
1 2	9 1.77	+ 7 28.5	1.686	2.548	13.1	20.5
1 12	8 54.16	+ 7 52.6	1.628	2.556	9.2	20.3
1 22	8 44.72	+ 8 32.7	1.596	2.563	5.2	20.1
2 1	8 34.48	+ 9 25.2	1.592	2.570	3.6	20.0
2 11	8 24.69	+10 24.4	1.618	2.575	6.7	20.2
2 21	8 16.46	+11 24.5	1.670	2.581	10.7	20.4
3 2	8 10.63	+12 20.4	1.747	2.585	14.3	20.7

334211 2001 SA_{315} 1 28.0 89°.39 2°.7/29.7 18

12 23	9 3.39	+ 9 30.9	2.376	3.146	12.8	20.7
1 2	8 58.45	+ 9 14.8	2.297	3.158	10.1	20.6
1 12	8 51.69	+ 9 9.2	2.243	3.170	7.0	20.4
1 22	8 43.69	+ 9 13.3	2.215	3.182	4.0	20.2
2 1	8 35.19	+ 9 25.4	2.218	3.194	2.9	20.1
2 11	8 27.08	+ 9 42.8	2.250	3.206	5.3	20.3
2 21	8 20.11	+10 2.7	2.311	3.217	8.3	20.5
3 2	8 14.90	+10 22.5	2.397	3.229	11.1	20.7

396623 2001 TP_{124} 1 28.0 90°.64 5°.6/31.3 18

12 23	9 5.51	+ 2 38.4	1.918	2.669	16.1	20.6
1 2	9 0.40	+ 2 7.6	1.847	2.687	13.2	20.4
1 12	8 53.09	+ 1 54.9	1.798	2.705	9.9	20.3
1 22	8 44.25	+ 2 0.7	1.774	2.722	6.9	20.1
2 1	8 34.83	+ 2 23.6	1.778	2.739	5.6	20.1
2 11	8 25.91	+ 3 0.2	1.810	2.756	7.2	20.2
2 21	8 18.43	+ 3 45.2	1.869	2.773	10.1	20.4
3 2	8 13.09	+ 4 33.6	1.953	2.789	13.1	20.6

166308 2002 JQ_{27} 1 28.0 221°.86 1°.0/28.6 18

12 23	9 6.37	+13 40.4	1.975	2.764	14.4	20.6
1 2	9 1.36	+13 57.0	1.879	2.756	11.2	20.4
1 12	8 53.93	+14 25.2	1.807	2.747	7.4	20.1
1 22	8 44.67	+15 2.4	1.761	2.738	3.2	19.8
2 1	8 34.50	+15 44.3	1.745	2.728	1.9	19.7
2 11	8 24.60	+16 26.2	1.759	2.717	6.1	20.0
2 21	8 16.06	+17 4.0	1.800	2.706	10.3	20.2
3 2	8 9.74	+17 35.0	1.866	2.695	13.9	20.4

142829 2002 VZ_{10} 1 28.0 163°.23 4°.7/31.1 18

12 23	9 5.61	+ 3 4.8	2.346	3.086	13.9	21.1
1 2	9 0.22	+ 2 46.2	2.258	3.092	11.3	20.9
1 12	8 52.89	+ 2 42.5	2.193	3.098	8.5	20.7
1 22	8 44.18	+ 2 53.9	2.155	3.103	5.8	20.6
2 1	8 34.87	+ 3 19.2	2.145	3.108	4.7	20.5
2 11	8 25.87	+ 3 55.4	2.166	3.112	6.2	20.6
2 21	8 18.02	+ 4 38.5	2.216	3.115	9.0	20.8
3 2	8 11.97	+ 5 24.3	2.291	3.117	11.7	21.0

141327 2001 YB_{137} 1 28.0 119°.44 0°.4/28.2 18

12 23	9 9.80	+17 22.8	2.153	2.940	13.5	19.6
1 2	9 3.45	+17 12.5	2.079	2.956	10.3	19.4
1 12	8 54.93	+17 7.7	2.029	2.970	6.6	19.2
1 22	8 44.93	+17 6.3	2.007	2.985	2.6	19.0
2 1	8 34.41	+17 5.4	2.016	2.998	1.6	18.9
2 11	8 24.45	+17 3.0	2.055	3.012	5.6	19.2
2 21	8 15.97	+16 57.6	2.123	3.025	9.2	19.5
3 2	8 9.63	+16 48.6	2.217	3.037	12.3	19.7

19441 Trucpham 1 28.0 232°.91 4°.1/30.7 18

12 23	9 3.29	+ 4 52.9	2.351	3.103	13.5	19.2
1 2	8 58.61	+ 4 39.4	2.248	3.093	11.0	19.0
1 12	8 51.97	+ 4 39.8	2.169	3.082	8.1	18.8
1 22	8 43.88	+ 4 54.2	2.115	3.071	5.3	18.6
2 1	8 35.06	+ 5 21.5	2.091	3.059	4.1	18.5
2 11	8 26.43	+ 5 58.5	2.096	3.047	6.0	18.6
2 21	8 18.83	+ 6 41.5	2.130	3.034	9.0	18.8
3 2	8 13.00	+ 7 26.4	2.189	3.021	12.0	18.9

235458 2003 YZ_{156} 1 28.0 85°.64 2°.5/29.8 18

12 23	9 2.23	+ 8 53.2	2.179	2.955	13.7	20.8
1 2	8 57.77	+ 9 4.6	2.103	2.967	10.8	20.7
1 12	8 51.36	+ 9 29.5	2.050	2.980	7.4	20.5
1 22	8 43.60	+10 5.9	2.023	2.992	4.0	20.3
2 1	8 35.28	+10 50.7	2.026	3.005	2.6	20.2
2 11	8 27.35	+11 39.4	2.058	3.017	5.4	20.4
2 21	8 20.64	+12 28.0	2.119	3.029	8.8	20.6
3 2	8 15.78	+13 12.8	2.205	3.041	11.8	20.8

69934 1998 US_{13} 1 28.0 64°.24 1°.5/27.1 18 R

12 23	9 4.20	+20 33.3	1.989	2.798	13.6	19.6
1 2	8 59.54	+21 7.3	1.918	2.809	10.3	19.4
1 12	8 52.61	+21 47.3	1.872	2.820	6.5	19.2
1 22	8 44.10	+22 28.5	1.852	2.831	2.6	19.0
2 1	8 34.96	+23 5.9	1.862	2.842	2.6	19.0
2 11	8 26.31	+23 35.4	1.901	2.853	6.4	19.3
2 21	8 19.12	+23 54.5	1.966	2.864	10.0	19.5
3 2	8 14.12	+24 2.9	2.056	2.875	13.2	19.7

57067 2001 NB_{21} 1 28.0 132.°22 0.°4/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.02	+18 32.8	1.756	2.554	15.6	20.1
1 2	9 5.66	+18 41.2	1.684	2.568	11.9	19.9
1 12	8 56.60	+18 56.8	1.636	2.581	7.6	19.7
1 22	8 45.63	+19 15.2	1.615	2.593	2.9	19.4
2 1	8 33.96	+19 32.1	1.623	2.605	2.1	19.4
2 11	8 22.95	+19 43.7	1.660	2.616	6.7	19.7
2 21	8 13.79	+19 48.2	1.725	2.627	10.9	20.0
3 2	8 7.29	+19 45.1	1.814	2.636	14.5	20.2

483721 2005 TF_{82} 1 28.0 256.°50 5.°0/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.90	+ 6 35.1	1.467	2.254	18.7	21.6
1 2	9 1.65	+ 6 12.0	1.383	2.250	15.1	21.3
1 12	8 54.44	+ 6 8.3	1.318	2.246	10.9	21.0
1 22	8 44.95	+ 6 24.6	1.277	2.241	6.7	20.8
2 1	8 34.35	+ 6 58.7	1.263	2.237	5.1	20.7
2 11	8 24.15	+ 7 45.5	1.274	2.232	8.1	20.8
2 21	8 15.73	+ 8 38.7	1.311	2.227	12.5	21.1
3 2	8 10.12	+ 9 31.8	1.371	2.222	16.7	21.3

81633 2000 HH_{77} 1 28.0 158.°22 4.°0/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.94	+25 58.9	2.066	2.875	13.2	19.4
1 2	9 1.82	+27 22.9	1.992	2.881	10.1	19.2
1 12	8 54.22	+28 50.8	1.942	2.886	6.7	19.0
1 22	8 44.78	+30 14.9	1.921	2.890	4.2	18.9
2 1	8 34.49	+31 27.7	1.930	2.894	5.0	19.0
2 11	8 24.57	+32 23.5	1.969	2.897	8.0	19.1
2 21	8 16.14	+33 0.0	2.034	2.900	11.3	19.4
3 2	8 10.05	+33 17.9	2.122	2.903	14.1	19.6

61137 2000 NR_{4} 1 28.0 243.°44 1.°2/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.29	+13 19.1	1.713	2.510	16.0	19.7
1 2	9 1.71	+13 38.4	1.618	2.499	12.5	19.5
1 12	8 54.38	+14 12.0	1.546	2.488	8.3	19.2
1 22	8 44.92	+14 56.7	1.499	2.476	3.6	18.9
2 1	8 34.36	+15 47.6	1.481	2.464	2.1	18.8
2 11	8 24.07	+16 38.8	1.491	2.451	6.9	19.0
2 21	8 15.32	+17 25.1	1.528	2.438	11.5	19.3
3 2	8 9.13	+18 3.0	1.589	2.425	15.6	19.5

327013 2004 RK_{136} 1 28.0 165.°04 4.°7/31.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.10	+ 3 24.2	2.360	3.104	13.7	20.7
1 2	8 59.09	+ 3 0.9	2.271	3.108	11.2	20.5
1 12	8 52.18	+ 2 51.9	2.205	3.111	8.4	20.4
1 22	8 43.93	+ 2 57.6	2.165	3.114	5.8	20.2
2 1	8 35.08	+ 3 17.0	2.155	3.117	4.7	20.1
2 11	8 26.52	+ 3 47.4	2.174	3.119	6.2	20.2
2 21	8 19.07	+ 4 25.0	2.221	3.121	8.9	20.4
3 2	8 13.38	+ 5 5.9	2.294	3.123	11.6	20.6

274730 2008 UE_{189} 1 28.0 125.°32 0.°8/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.53	+14 13.9	2.227	3.016	13.0	21.5
1 2	8 58.79	+14 31.1	2.146	3.023	10.0	21.3
1 12	8 52.04	+14 57.7	2.089	3.030	6.5	21.1
1 22	8 43.88	+15 31.2	2.059	3.036	2.7	20.9
2 1	8 35.12	+16 7.8	2.060	3.043	1.6	20.8
2 11	8 26.73	+16 43.6	2.090	3.049	5.3	21.1
2 21	8 19.56	+17 15.6	2.149	3.055	8.9	21.3
3 2	8 14.29	+17 41.4	2.233	3.060	12.0	21.5

359627 2011 QP_{18} 1 28.0 63.°55 4.°5/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.16	+ 7 35.4	1.433	2.226	18.8	20.7
1 2	9 1.67	+ 7 13.6	1.365	2.236	15.0	20.5
1 12	8 54.28	+ 7 10.8	1.317	2.247	10.6	20.2
1 22	8 44.82	+ 7 26.5	1.292	2.258	6.3	20.0
2 1	8 34.51	+ 7 57.8	1.293	2.269	4.6	19.9
2 11	8 24.84	+ 8 39.5	1.321	2.280	7.8	20.1
2 21	8 17.07	+ 9 25.3	1.375	2.291	12.0	20.4
3 2	8 12.10	+10 9.8	1.451	2.302	15.9	20.7

522645 2016 GY_{261} 1 28.0 200.°48 5.°2/ 1.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.44	− 2 57.5	3.126	3.825	11.5	22.8
1 2	8 55.95	− 3 13.2	3.023	3.821	9.7	22.6
1 12	8 50.03	− 3 14.6	2.944	3.816	7.8	22.5
1 22	8 43.10	− 3 0.9	2.891	3.811	6.0	22.4
2 1	8 35.68	− 2 32.6	2.867	3.805	5.2	22.3
2 11	8 28.42	− 1 51.8	2.872	3.799	5.9	22.4
2 21	8 21.91	− 1 1.7	2.906	3.792	7.6	22.5
3 2	8 16.67	− 0 6.1	2.967	3.785	9.6	22.6

354567 2004 TB_{110} 1 28.0 73.°15 0.°2/27.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.00	+14 50.7	1.441	2.251	17.8	20.8
1 2	9 2.97	+15 43.6	1.388	2.277	13.5	20.6
1 12	8 55.03	+16 51.1	1.356	2.303	8.6	20.4
1 22	8 45.07	+18 6.5	1.349	2.328	3.2	20.1
2 1	8 34.43	+19 21.4	1.371	2.354	2.2	20.1
2 11	8 24.60	+20 28.2	1.421	2.379	7.3	20.5
2 21	8 16.82	+21 22.0	1.496	2.404	11.9	20.8
3 2	8 11.92	+22 0.9	1.594	2.428	15.6	21.1

413076 2001 SF_{312} 1 28.0 66.°55 3.°0/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.28	+ 8 48.6	1.701	2.489	16.5	21.5
1 2	8 59.78	+ 8 55.9	1.634	2.505	12.9	21.3
1 12	8 52.86	+ 9 19.9	1.589	2.522	8.9	21.1
1 22	8 44.23	+ 9 58.5	1.569	2.539	4.8	20.9
2 1	8 34.95	+10 47.4	1.576	2.555	3.2	20.8
2 11	8 26.23	+11 41.0	1.612	2.572	6.4	21.1
2 21	8 19.12	+12 33.9	1.675	2.589	10.4	21.3
3 2	8 14.36	+13 21.8	1.762	2.606	13.9	21.6

108969 2001 PH_{41} 1 28.0 247.°93 0.°7/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.33	+16 10.6	2.343	3.133	12.4	19.7
1 2	8 59.36	+16 4.9	2.252	3.130	9.6	19.5
1 12	8 52.41	+16 5.7	2.185	3.127	6.2	19.3
1 22	8 44.04	+16 11.0	2.147	3.124	2.6	19.0
2 1	8 35.07	+16 18.3	2.138	3.121	1.5	18.9
2 11	8 26.41	+16 25.1	2.160	3.118	5.2	19.2
2 21	8 18.94	+16 29.4	2.210	3.114	8.7	19.4
3 2	8 13.31	+16 30.1	2.285	3.111	11.8	19.6

348146 2004 CZ_{86} 1 28.0 98.°34 2.°0/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.34	+23 59.8	2.348	3.150	12.0	20.8
1 2	9 0.80	+24 19.9	2.277	3.163	9.1	20.6
1 12	8 53.25	+24 41.8	2.232	3.177	5.8	20.4
1 22	8 44.33	+25 1.5	2.214	3.190	2.7	20.2
2 1	8 34.91	+25 15.2	2.227	3.203	2.8	20.3
2 11	8 25.99	+25 20.4	2.269	3.216	5.9	20.5
2 21	8 18.41	+25 16.2	2.340	3.229	9.1	20.7
3 2	8 12.81	+25 3.2	2.436	3.241	11.8	20.9

104589 2000 GT_{86} 1 28.0 350.°86 3.°7/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.83	+ 5 41.6	2.154	2.921	14.1	19.7
1 2	8 56.85	+ 5 44.1	2.065	2.920	11.4	19.5
1 12	8 50.89	+ 6 2.3	1.999	2.920	8.2	19.3
1 22	8 43.49	+ 6 35.5	1.958	2.919	5.1	19.1
2 1	8 35.43	+ 7 21.1	1.946	2.919	3.7	19.0
2 11	8 27.65	+ 8 15.0	1.963	2.919	5.9	19.2
2 21	8 21.02	+ 9 12.4	2.008	2.918	9.1	19.4
3 2	8 16.23	+10 8.7	2.078	2.918	12.2	19.5

316850 2000 GS_{120} 1 28.0 268.°70 0.°9/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.14	+19 14.2	2.228	3.031	12.6	21.0
1 2	8 58.66	+19 40.4	2.138	3.025	9.6	20.8
1 12	8 52.07	+20 13.3	2.073	3.019	6.1	20.6
1 22	8 43.95	+20 49.0	2.034	3.013	2.3	20.3
2 1	8 35.12	+21 23.3	2.026	3.007	2.0	20.3
2 11	8 26.59	+21 52.3	2.047	3.002	5.8	20.5
2 21	8 19.28	+22 13.5	2.096	2.996	9.4	20.7
3 2	8 13.92	+22 25.6	2.170	2.990	12.6	20.9

128335 2004 FP_{79} 1 28.0 80.°19 2.°3/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.70	+ 9 55.9	1.808	2.589	15.9	19.5
1 2	9 2.08	+10 9.8	1.751	2.620	12.4	19.3
1 12	8 54.15	+10 38.4	1.717	2.651	8.3	19.2
1 22	8 44.67	+11 18.7	1.710	2.681	4.2	19.0
2 1	8 34.72	+12 6.2	1.731	2.711	2.6	18.9
2 11	8 25.45	+12 55.7	1.782	2.741	6.0	19.2
2 21	8 17.82	+13 42.6	1.860	2.770	9.8	19.5
3 2	8 12.51	+14 23.7	1.963	2.798	13.1	19.8

334771 2003 SK_{82} 1 28.0 103.°02 5.°3/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.62	+30 10.1	1.736	2.548	15.2	20.9
1 2	9 6.37	+31 5.5	1.678	2.566	11.7	20.7
1 12	8 57.15	+31 58.9	1.644	2.583	8.1	20.5
1 22	8 45.88	+32 42.0	1.636	2.600	5.5	20.4
2 1	8 33.92	+33 7.7	1.657	2.616	6.1	20.5
2 11	8 22.79	+33 12.9	1.705	2.633	9.1	20.7
2 21	8 13.76	+32 58.3	1.779	2.648	12.5	20.9
3 2	8 7.67	+32 27.5	1.875	2.663	15.5	21.1

297445 2000 SQ_{214} 1 28.0 95.°02 0.°9/28.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.36	+14 13.1	1.672	2.468	16.4	21.7
1 2	9 3.63	+14 31.9	1.611	2.491	12.5	21.5
1 12	8 55.29	+15 2.7	1.572	2.514	8.1	21.3
1 22	8 45.15	+15 41.6	1.560	2.537	3.3	21.0
2 1	8 34.40	+16 23.3	1.576	2.559	1.9	21.0
2 11	8 24.37	+17 2.7	1.621	2.580	6.5	21.3
2 21	8 16.16	+17 35.9	1.694	2.601	10.7	21.6
3 2	8 10.54	+18 0.8	1.790	2.622	14.3	21.9

117656 2005 EJ_{187} 1 28.0 31.°37 0.°8/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.59	+14 59.2	1.897	2.700	14.4	19.9
1 2	8 58.40	+15 10.2	1.822	2.707	11.1	19.7
1 12	8 51.95	+15 31.3	1.770	2.714	7.2	19.4
1 22	8 43.90	+15 59.5	1.744	2.721	3.0	19.2
2 1	8 35.20	+16 31.0	1.746	2.729	1.7	19.1
2 11	8 26.96	+17 1.5	1.778	2.738	5.9	19.4
2 21	8 20.14	+17 27.7	1.836	2.747	9.9	19.7
3 2	8 15.49	+17 47.3	1.918	2.756	13.2	19.9

333043 2011 SU_{129} 1 28.0 28°.97 0°.9/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.98	+17 44.4	1.185	2.022	19.3	21.1
1 2	9 0.61	+18 17.5	1.129	2.033	14.7	20.8
1 12	8 53.88	+19 3.8	1.092	2.045	9.3	20.6
1 22	8 44.74	+19 56.9	1.078	2.058	3.5	20.3
2 1	8 34.67	+20 48.4	1.089	2.072	2.8	20.3
2 11	8 25.46	+21 30.8	1.126	2.087	8.4	20.6
2 21	8 18.56	+21 59.9	1.186	2.102	13.5	21.0
3 2	8 14.90	+22 14.4	1.267	2.119	17.8	21.3

458872 2011 UL_{135} 1 28.0 117°.38 0°.7/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.65	+15 50.0	1.687	2.485	16.1	21.6
1 2	9 3.98	+15 52.0	1.615	2.497	12.4	21.4
1 12	8 55.60	+16 3.8	1.566	2.509	8.0	21.1
1 22	8 45.31	+16 22.0	1.543	2.520	3.3	20.9
2 1	8 34.29	+16 42.6	1.548	2.531	1.9	20.8
2 11	8 23.89	+17 1.4	1.583	2.542	6.7	21.1
2 21	8 15.30	+17 15.5	1.644	2.552	11.0	21.4
3 2	8 9.35	+17 23.5	1.729	2.561	14.7	21.7

51850 2001 OJ_{92} 1 28.0 69°.66 3°.7/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.24	+28 53.6	2.205	3.012	12.5	18.7
1 2	9 1.79	+29 21.4	2.128	3.015	9.6	18.5
1 12	8 54.05	+29 47.9	2.076	3.017	6.5	18.3
1 22	8 44.69	+30 8.0	2.051	3.020	4.0	18.1
2 1	8 34.70	+30 17.0	2.056	3.022	4.4	18.2
2 11	8 25.21	+30 12.5	2.090	3.025	7.2	18.3
2 21	8 17.22	+29 54.4	2.151	3.028	10.3	18.5
3 2	8 11.45	+29 24.3	2.236	3.030	13.1	18.7

73525 2003 MP_{8} 1 28.0 115°.13 2°.7/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.32	+ 8 56.6	1.762	2.544	16.2	20.0
1 2	9 1.32	+ 9 10.2	1.689	2.557	12.8	19.8
1 12	8 53.87	+ 9 40.5	1.638	2.570	8.7	19.6
1 22	8 44.65	+10 24.9	1.613	2.583	4.6	19.4
2 1	8 34.72	+11 19.0	1.616	2.595	3.0	19.3
2 11	8 25.30	+12 17.2	1.648	2.607	6.4	19.6
2 21	8 17.46	+13 13.9	1.708	2.619	10.4	19.8
3 2	8 12.00	+14 4.8	1.791	2.630	14.0	20.1

107359 2001 CL_{28} 1 28.0 240°.77 3°.1/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.53	+21 54.4	1.472	2.294	16.9	19.7
1 2	9 3.99	+22 52.8	1.389	2.286	13.0	19.5
1 12	8 56.15	+24 1.1	1.329	2.278	8.4	19.2
1 22	8 45.71	+25 11.4	1.293	2.270	3.9	18.9
2 1	8 33.96	+26 14.4	1.285	2.262	4.4	18.9
2 11	8 22.63	+27 2.2	1.304	2.253	9.1	19.2
2 21	8 13.31	+27 31.0	1.348	2.244	13.8	19.4
3 2	8 7.14	+27 41.0	1.413	2.235	18.0	19.6

196690 2003 SD_{70} 1 28.0 73°.93 0°.6/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.20	+18 19.6	2.016	2.818	13.7	20.7
1 2	9 0.17	+18 44.2	1.951	2.837	10.4	20.5
1 12	8 52.95	+19 15.9	1.910	2.856	6.6	20.3
1 22	8 44.25	+19 50.5	1.896	2.875	2.5	20.1
2 1	8 35.02	+20 23.7	1.912	2.894	1.9	20.0
2 11	8 26.33	+20 51.5	1.957	2.913	5.9	20.3
2 21	8 19.10	+21 11.5	2.030	2.932	9.5	20.6
3 2	8 14.02	+21 22.8	2.127	2.951	12.6	20.8

175085 2004 HZ_{15} 1 28.0 188°.64 1°.8/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.71	+21 55.8	2.879	3.677	10.2	20.5
1 2	8 57.16	+22 50.9	2.791	3.676	7.7	20.3
1 12	8 50.93	+23 50.6	2.729	3.675	4.9	20.1
1 22	8 43.49	+24 50.7	2.697	3.673	2.3	19.9
2 1	8 35.48	+25 46.9	2.697	3.672	2.5	20.0
2 11	8 27.68	+26 35.4	2.727	3.670	5.3	20.1
2 21	8 20.81	+27 14.0	2.786	3.668	8.0	20.3
3 2	8 15.45	+27 41.5	2.871	3.665	10.5	20.5

179659 2002 QH_{18} 1 28.0 82°.68 1°.0/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.22	+13 58.3	1.740	2.535	15.9	21.1
1 2	9 2.64	+14 14.2	1.681	2.561	12.2	20.9
1 12	8 54.59	+14 41.6	1.645	2.586	7.9	20.7
1 22	8 44.88	+15 17.0	1.635	2.612	3.3	20.5
2 1	8 34.63	+15 55.5	1.654	2.636	1.9	20.4
2 11	8 25.07	+16 32.4	1.702	2.661	6.2	20.8
2 21	8 17.24	+17 4.0	1.777	2.685	10.3	21.1
3 2	8 11.87	+17 28.2	1.876	2.709	13.7	21.3

280014 2001 VK_{80} 1 28.0 133°.56 3°.6/31.2 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.73	+ 3 17.0	3.066	3.798	11.1	21.2
1 2	8 56.83	+ 3 8.4	2.983	3.813	9.0	21.1
1 12	8 50.54	+ 3 11.5	2.924	3.827	6.7	20.9
1 22	8 43.29	+ 3 26.0	2.893	3.840	4.5	20.8
2 1	8 35.66	+ 3 50.6	2.891	3.854	3.6	20.8
2 11	8 28.29	+ 4 23.0	2.921	3.866	4.8	20.9
2 21	8 21.76	+ 5 0.2	2.980	3.878	7.0	21.0
3 2	8 16.57	+ 5 39.3	3.067	3.890	9.2	21.2

147449 2003 YQ_{154} 1 28.0 328°.33 8°.2/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 29.62	+36 42.1	1.023	1.846	22.6	17.7
1 2	9 21.69	+36 25.9	0.952	1.841	18.3	17.4
1 12	9 8.11	+35 52.3	0.899	1.836	13.3	17.1
1 22	8 50.32	+34 47.5	0.868	1.832	9.0	16.8
2 1	8 31.13	+33 3.6	0.862	1.828	8.8	16.8
2 11	8 13.88	+30 44.6	0.882	1.825	13.1	17.0
2 21	8 0.99	+28 4.8	0.924	1.822	18.4	17.3
3 2	7 53.56	+25 20.0	0.987	1.819	23.2	17.6

388056 2005 TL_{23} 1 28.0 131°.63 1°.7/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.12	+10 46.8	1.832	2.612	15.8	21.8
1 2	9 3.36	+11 15.7	1.760	2.630	12.2	21.6
1 12	8 55.13	+11 59.5	1.711	2.646	8.2	21.3
1 22	8 45.14	+12 54.9	1.688	2.662	3.8	21.1
2 1	8 34.45	+13 56.5	1.695	2.677	2.2	21.0
2 11	8 24.28	+14 58.4	1.732	2.691	6.2	21.3
2 21	8 15.73	+15 55.5	1.798	2.704	10.3	21.6
3 2	8 9.58	+16 44.2	1.888	2.716	13.8	21.8

198902 2005 UE_{32} 1 28.0 266°.87 3°.1/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.15	+10 12.4	1.508	2.305	17.8	20.7
1 2	9 1.94	+10 5.8	1.416	2.293	14.1	20.5
1 12	8 54.73	+10 15.9	1.344	2.281	9.8	20.2
1 22	8 45.16	+10 41.8	1.297	2.269	5.2	19.9
2 1	8 34.36	+11 20.0	1.276	2.256	3.4	19.7
2 11	8 23.84	+12 5.2	1.282	2.243	7.6	19.9
2 21	8 15.03	+12 51.3	1.314	2.230	12.5	20.2
3 2	8 9.05	+13 33.5	1.368	2.217	16.9	20.4

424590 2008 GO_{85} 1 28.0 294°.52 2°.5/26.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.74	+21 1.1	1.728	2.546	14.9	21.2
1 2	8 59.93	+22 1.8	1.635	2.530	11.4	21.0
1 12	8 53.36	+23 12.7	1.565	2.514	7.4	20.7
1 22	8 44.61	+24 27.3	1.521	2.499	3.4	20.4
2 1	8 34.72	+25 37.8	1.506	2.483	3.8	20.4
2 11	8 25.05	+26 36.8	1.519	2.467	8.0	20.6
2 21	8 16.92	+27 19.8	1.557	2.452	12.4	20.8
3 2	8 11.38	+27 45.4	1.618	2.437	16.2	21.1

423681 2005 YJ_{218} 1 28.0 316°.42 2°.8/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.77	+21 49.2	1.810	2.629	14.3	20.5
1 2	8 58.99	+22 56.3	1.725	2.621	10.9	20.3
1 12	8 52.63	+24 12.1	1.663	2.613	7.0	20.0
1 22	8 44.29	+25 30.1	1.628	2.605	3.4	19.8
2 1	8 34.97	+26 42.2	1.622	2.597	3.9	19.8
2 11	8 25.95	+27 41.8	1.644	2.590	7.8	20.0
2 21	8 18.43	+28 24.9	1.692	2.583	11.8	20.2
3 2	8 13.35	+28 50.6	1.763	2.576	15.3	20.4

199677 Terzani 1 28.0 325°.93 10°.3/21.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.72	+43 50.5	1.816	2.618	15.0	19.7
1 2	9 6.51	+45 8.7	1.747	2.607	12.8	19.5
1 12	8 57.74	+46 15.3	1.700	2.597	11.0	19.4
1 22	8 46.29	+46 59.6	1.677	2.587	10.3	19.3
2 1	8 33.70	+47 13.3	1.678	2.578	11.1	19.4
2 11	8 21.86	+46 53.2	1.705	2.569	13.0	19.5
2 21	8 12.40	+46 2.3	1.753	2.561	15.4	19.6
3 2	8 6.38	+44 46.8	1.820	2.553	17.8	19.8

83093 2001 QR_{233} 1 28.0 112°.64 0°.2/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.89	+16 14.8	2.393	3.185	12.1	20.0
1 2	8 58.21	+16 30.6	2.311	3.191	9.3	19.9
1 12	8 51.65	+16 53.7	2.254	3.197	6.0	19.7
1 22	8 43.79	+17 21.5	2.225	3.203	2.3	19.4
2 1	8 35.38	+17 50.5	2.226	3.209	1.4	19.4
2 11	8 27.31	+18 17.5	2.257	3.214	5.1	19.6
2 21	8 20.38	+18 40.0	2.316	3.220	8.4	19.8
3 2	8 15.23	+18 56.3	2.401	3.225	11.4	20.0

409549 2005 UJ_{74} 1 28.0 46°.54 6°.4/24.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.03	+30 37.8	1.502	2.330	16.3	20.1
1 2	9 3.27	+32 0.5	1.457	2.353	12.6	19.9
1 12	8 55.36	+33 20.8	1.435	2.376	8.9	19.8
1 22	8 45.28	+34 28.6	1.439	2.399	6.6	19.7
2 1	8 34.48	+35 15.1	1.469	2.423	7.4	19.8
2 11	8 24.61	+35 36.2	1.525	2.448	10.4	20.0
2 21	8 17.00	+35 33.0	1.604	2.472	13.7	20.3
3 2	8 12.46	+35 9.4	1.705	2.497	16.6	20.5

241621 1999 UR_{52} 1 28.0 85°.95 0°.4/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.81	+15 26.1	1.646	2.452	16.1	19.6
1 2	9 1.19	+16 18.7	1.579	2.467	12.3	19.4
1 12	8 53.91	+17 24.6	1.536	2.482	7.8	19.2
1 22	8 44.73	+18 38.0	1.518	2.497	2.9	18.9
2 1	8 34.79	+19 51.6	1.529	2.512	2.1	18.9
2 11	8 25.41	+20 58.2	1.569	2.526	6.9	19.2
2 21	8 17.77	+21 53.0	1.635	2.540	11.2	19.5
3 2	8 12.69	+22 33.8	1.724	2.554	14.8	19.7

75139 1999 VD_{83} 1 28.0 231°.80 3°.8/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.67	+26 46.6	1.981	2.788	13.7	20.9
1 2	9 4.15	+27 34.8	1.889	2.777	10.6	20.7
1 12	8 55.89	+28 25.4	1.822	2.765	7.1	20.4
1 22	8 45.56	+29 12.0	1.782	2.753	4.2	20.2
2 1	8 34.20	+29 47.6	1.771	2.740	4.7	20.2
2 11	8 23.18	+30 7.7	1.790	2.726	8.1	20.4
2 21	8 13.74	+30 10.8	1.835	2.712	11.7	20.6
3 2	8 6.84	+29 58.2	1.903	2.697	15.0	20.8

123171 2000 TL_{58} 1 28.0 107°.79 1°.1/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.76	+18 1.3	2.078	2.879	13.4	20.1
1 2	8 59.92	+18 56.6	2.007	2.893	10.2	19.9
1 12	8 52.90	+20 0.6	1.960	2.906	6.4	19.7
1 22	8 44.31	+21 8.2	1.941	2.920	2.5	19.4
2 1	8 35.09	+22 13.4	1.952	2.933	2.3	19.4
2 11	8 26.28	+23 10.8	1.993	2.945	6.1	19.7
2 21	8 18.86	+23 57.0	2.062	2.958	9.7	20.0
3 2	8 13.52	+24 30.7	2.155	2.970	12.8	20.2

380701 2005 JK_{117} 1 28.0 49°.40 4°.0/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.45	+26 32.9	2.042	2.859	13.0	20.3
1 2	8 59.13	+27 47.2	1.977	2.870	9.9	20.1
1 12	8 52.49	+29 3.9	1.937	2.881	6.6	19.9
1 22	8 44.18	+30 16.0	1.924	2.892	4.2	19.8
2 1	8 35.18	+31 16.8	1.940	2.904	4.9	19.9
2 11	8 26.63	+32 1.4	1.985	2.916	7.8	20.1
2 21	8 19.55	+32 28.1	2.056	2.928	10.9	20.3
3 2	8 14.69	+32 37.7	2.149	2.940	13.7	20.5

161123 2002 RA_{37} 1 28.1 99°.67 1°.2/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.14	+21 30.4	2.215	3.016	12.7	20.1
1 2	9 0.82	+21 41.1	2.137	3.022	9.6	19.9
1 12	8 53.39	+21 55.4	2.083	3.029	6.1	19.7
1 22	8 44.48	+22 9.8	2.057	3.036	2.5	19.4
2 1	8 35.00	+22 20.5	2.062	3.042	2.2	19.4
2 11	8 25.97	+22 25.0	2.096	3.049	5.8	19.7
2 21	8 18.30	+22 22.0	2.158	3.055	9.3	19.9
3 2	8 12.69	+22 11.4	2.245	3.061	12.3	20.1

144605 2004 FX_{49} 1 28.1 170°.77 0°.9/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.62	+19 20.3	1.851	2.658	14.6	20.5
1 2	9 1.67	+19 41.9	1.770	2.659	11.1	20.3
1 12	8 54.19	+20 10.7	1.712	2.659	7.1	20.0
1 22	8 44.86	+20 42.4	1.681	2.660	2.7	19.7
2 1	8 34.73	+21 12.1	1.679	2.660	2.3	19.7
2 11	8 25.04	+21 35.3	1.705	2.661	6.6	20.0
2 21	8 16.93	+21 49.7	1.759	2.661	10.7	20.2
3 2	8 11.23	+21 54.3	1.836	2.661	14.3	20.5

126423 2002 BE_{31} 1 28.1 130°.93 0°.9/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.38	+14 5.8	2.025	2.818	14.0	20.4
1 2	8 59.68	+14 20.2	1.943	2.822	10.8	20.2
1 12	8 52.78	+14 45.1	1.884	2.825	7.1	20.0
1 22	8 44.29	+15 17.8	1.852	2.829	3.0	19.7
2 1	8 35.11	+15 54.2	1.850	2.833	1.7	19.6
2 11	8 26.31	+16 30.2	1.877	2.836	5.8	19.9
2 21	8 18.86	+17 2.2	1.932	2.840	9.6	20.1
3 2	8 13.51	+17 27.9	2.011	2.843	12.9	20.3

321638 2009 WM_{249} 1 28.1 63°.91 0°.2/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.08	+15 56.6	1.258	2.080	19.2	21.0
1 2	9 3.62	+16 15.9	1.195	2.090	14.8	20.7
1 12	8 55.81	+16 49.5	1.152	2.101	9.5	20.4
1 22	8 45.55	+17 32.1	1.133	2.112	3.7	20.1
2 1	8 34.31	+18 16.7	1.139	2.123	2.3	20.1
2 11	8 23.88	+18 56.4	1.173	2.134	8.1	20.5
2 21	8 15.74	+19 26.5	1.230	2.145	13.2	20.8
3 2	8 10.86	+19 45.1	1.308	2.156	17.6	21.1

313500 2002 VV_{60} 1 28.1 72°.98 2°.2/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.64	+11 37.2	1.674	2.464	16.6	21.3
1 2	9 2.99	+11 36.6	1.618	2.493	12.9	21.1
1 12	8 54.84	+11 49.5	1.585	2.522	8.6	20.9
1 22	8 45.03	+12 13.3	1.577	2.550	4.1	20.7
2 1	8 34.71	+12 43.9	1.597	2.578	2.6	20.7
2 11	8 25.14	+13 16.8	1.647	2.606	6.4	21.0
2 21	8 17.38	+13 47.9	1.723	2.634	10.4	21.2
3 2	8 12.11	+14 14.2	1.824	2.661	13.8	21.5

318978 2005 UK_{312} 1 28.1 256°.75 6°.8/23.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.69	+34 19.2	1.994	2.804	13.5	20.2
1 2	9 3.65	+35 39.8	1.911	2.793	10.8	20.0
1 12	8 55.72	+36 58.3	1.853	2.781	8.2	19.8
1 22	8 45.55	+38 5.8	1.821	2.768	6.8	19.7
2 1	8 34.28	+38 53.9	1.818	2.756	7.7	19.7
2 11	8 23.36	+39 17.9	1.841	2.743	10.2	19.9
2 21	8 14.15	+39 17.2	1.890	2.730	13.1	20.0
3 2	8 7.66	+38 54.8	1.959	2.717	15.9	20.2

458750 2011 QK_{91} 1 28.1 84°.92 0°.4/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.91	+15 53.3	1.567	2.370	16.9	22.1
1 2	9 4.24	+16 10.5	1.508	2.394	12.9	21.9
1 12	8 55.79	+16 38.6	1.472	2.417	8.3	21.7
1 22	8 45.45	+17 13.3	1.461	2.440	3.2	21.5
2 1	8 34.47	+17 49.0	1.479	2.462	2.0	21.4
2 11	8 24.28	+18 20.7	1.525	2.484	6.9	21.8
2 21	8 16.07	+18 45.1	1.598	2.506	11.2	22.1
3 2	8 10.60	+19 0.7	1.693	2.527	14.9	22.4

17558 1994 AA_{1} 1 28.1 14°.50 1°.3/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.08	+12 51.8	1.329	2.149	18.5	17.4
1 2	8 59.75	+13 15.8	1.258	2.151	14.4	17.2
1 12	8 53.35	+13 57.8	1.207	2.153	9.5	16.9
1 22	8 44.65	+14 53.8	1.179	2.156	4.1	16.6
2 1	8 34.92	+15 57.0	1.177	2.160	2.3	16.5
2 11	8 25.75	+16 59.6	1.201	2.165	7.6	16.8
2 21	8 18.55	+17 54.8	1.250	2.170	12.7	17.1
3 2	8 14.30	+18 38.5	1.321	2.175	17.0	17.4

110723 2001 TP_{232} 1 28.1 92°.34 3°.3/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.81	+ 6 10.7	1.859	2.633	15.8	19.9
1 2	8 58.65	+ 6 36.4	1.779	2.640	12.5	19.7
1 12	8 52.21	+ 7 21.3	1.721	2.648	8.8	19.5
1 22	8 44.11	+ 8 23.2	1.688	2.655	5.0	19.3
2 1	8 35.28	+ 9 37.6	1.685	2.662	3.4	19.2
2 11	8 26.83	+10 58.2	1.710	2.669	6.2	19.4
2 21	8 19.76	+12 18.3	1.763	2.676	10.0	19.6
3 2	8 14.86	+13 32.3	1.840	2.683	13.5	19.8

79779 1998 US_{22} 1 28.1 33°.76 2°.7/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.68	+21 56.9	1.275	2.110	18.2	19.2
1 2	9 1.73	+22 36.5	1.222	2.126	13.8	19.0
1 12	8 54.52	+23 23.4	1.190	2.142	8.8	18.7
1 22	8 45.03	+24 9.9	1.182	2.160	3.8	18.5
2 1	8 34.75	+24 48.1	1.200	2.179	4.0	18.6
2 11	8 25.38	+25 12.3	1.243	2.198	8.7	18.9
2 21	8 18.31	+25 20.6	1.311	2.218	13.3	19.2
3 2	8 14.40	+25 13.9	1.399	2.238	17.1	19.5

246676 2008 YN_{151} 1 28.1 185°.01 2°.3/29.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.21	+12 27.3	2.445	3.216	12.5	20.4
1 2	9 1.42	+11 50.7	2.352	3.216	9.8	20.2
1 12	8 53.70	+11 21.0	2.285	3.215	6.7	20.0
1 22	8 44.63	+10 57.7	2.245	3.215	3.6	19.8
2 1	8 34.98	+10 40.0	2.237	3.215	2.5	19.8
2 11	8 25.67	+10 26.7	2.259	3.214	5.3	19.9
2 21	8 17.52	+10 16.2	2.311	3.214	8.5	20.1
3 2	8 11.19	+10 7.1	2.389	3.213	11.4	20.3

379482 2010 EZ_{77} 1 28.1 93°.83 1°.6/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.63	+21 20.0	2.246	3.051	12.4	21.1
1 2	8 58.99	+21 55.9	2.168	3.056	9.4	20.9
1 12	8 52.29	+22 36.7	2.114	3.061	6.0	20.7
1 22	8 44.11	+23 18.2	2.089	3.067	2.5	20.5
2 1	8 35.32	+23 55.7	2.093	3.072	2.6	20.5
2 11	8 26.91	+24 25.4	2.127	3.077	6.0	20.7
2 21	8 19.77	+24 45.1	2.188	3.082	9.4	21.0
3 2	8 14.58	+24 54.3	2.274	3.087	12.3	21.2

100189 1994 CK_{3} 1 28.1 112°.33 2°.0/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.29	+10 22.7	1.993	2.776	14.6	19.9
1 2	8 59.60	+10 40.4	1.916	2.786	11.4	19.7
1 12	8 52.72	+11 12.0	1.862	2.796	7.7	19.5
1 22	8 44.30	+11 55.0	1.834	2.806	3.8	19.3
2 1	8 35.21	+12 45.2	1.835	2.816	2.3	19.2
2 11	8 26.55	+13 37.8	1.866	2.826	5.8	19.5
2 21	8 19.24	+14 28.2	1.925	2.835	9.5	19.7
3 2	8 14.01	+15 12.9	2.009	2.844	12.8	19.9

408249 2013 EC_{127} 1 28.1 326°.79 5°.9/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.91	+ 5 43.3	1.379	2.173	19.3	20.7
1 2	8 59.63	+ 5 6.2	1.293	2.163	15.8	20.4
1 12	8 53.34	+ 4 49.1	1.226	2.153	11.7	20.1
1 22	8 44.71	+ 4 53.9	1.182	2.143	7.6	19.9
2 1	8 34.88	+ 5 19.8	1.163	2.134	6.0	19.7
2 11	8 25.40	+ 6 2.1	1.169	2.126	8.7	19.9
2 21	8 17.69	+ 6 54.4	1.199	2.119	13.1	20.1
3 2	8 12.84	+ 7 49.3	1.250	2.112	17.4	20.3

144730 2004 GZ_{38} 1 28.1 190°.83 4°.3/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.56	+ 1 4.9	3.044	3.767	11.3	20.7
1 2	8 56.10	+ 0 51.7	2.946	3.766	9.3	20.5
1 12	8 50.20	+ 0 51.2	2.871	3.764	7.2	20.4
1 22	8 43.27	+ 1 3.7	2.823	3.762	5.2	20.3
2 1	8 35.88	+ 1 28.3	2.805	3.760	4.3	20.2
2 11	8 28.66	+ 2 2.9	2.817	3.757	5.3	20.3
2 21	8 22.23	+ 2 44.4	2.858	3.754	7.3	20.4
3 2	8 17.11	+ 3 29.4	2.925	3.750	9.5	20.5

362723 2011 UR_{250} 1 28.1 352°.87 0°.6/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.67	+16 44.0	1.326	2.155	18.0	20.8
1 2	8 59.59	+17 18.6	1.251	2.151	13.9	20.5
1 12	8 53.35	+18 7.9	1.196	2.148	8.9	20.3
1 22	8 44.70	+19 6.3	1.166	2.145	3.4	19.9
2 1	8 34.92	+20 6.3	1.161	2.144	2.5	19.9
2 11	8 25.66	+20 59.7	1.182	2.143	8.1	20.2
2 21	8 18.38	+21 41.2	1.227	2.142	13.2	20.5
3 2	8 14.14	+22 8.2	1.293	2.143	17.6	20.7

417011 2005 UF_{41} 1 28.1 101°.07 1°.8/27.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.12	+21 29.3	1.977	2.783	13.8	21.6
1 2	9 1.81	+22 2.4	1.908	2.796	10.5	21.4
1 12	8 54.14	+22 40.6	1.863	2.810	6.7	21.2
1 22	8 44.83	+23 18.7	1.846	2.824	2.8	21.0
2 1	8 34.90	+23 51.8	1.858	2.837	2.8	21.0
2 11	8 25.51	+24 15.8	1.900	2.850	6.5	21.3
2 21	8 17.67	+24 28.8	1.969	2.863	10.2	21.5
3 2	8 12.13	+24 31.0	2.061	2.876	13.3	21.7

232822 2004 RU_{345} 1 28.1 188°.02 0°.7/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.67	+13 32.6	2.025	2.810	14.3	22.0
1 2	9 2.31	+14 4.4	1.935	2.810	11.1	21.8
1 12	8 54.57	+14 48.4	1.869	2.808	7.2	21.5
1 22	8 45.06	+15 41.4	1.830	2.807	3.0	21.3
2 1	8 34.71	+16 38.2	1.821	2.804	1.7	21.2
2 11	8 24.66	+17 33.5	1.842	2.800	6.0	21.4
2 21	8 15.98	+18 22.8	1.892	2.796	10.0	21.7
3 2	8 9.50	+19 3.5	1.967	2.790	13.5	21.9

375349 2008 SE_{52} 1 28.1 115°.69 6°.4/ 2.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.05	− 4 13.8	2.422	3.128	14.3	22.0
1 2	8 57.50	− 4 25.6	2.342	3.142	12.1	21.9
1 12	8 51.20	− 4 18.0	2.283	3.155	9.7	21.7
1 22	8 43.68	− 3 50.2	2.249	3.169	7.5	21.6
2 1	8 35.65	− 3 3.3	2.242	3.181	6.4	21.6
2 11	8 27.93	− 2 1.0	2.264	3.194	7.0	21.6
2 21	8 21.28	− 0 48.2	2.314	3.206	9.0	21.8
3 2	8 16.29	+ 0 29.4	2.390	3.218	11.3	21.9

432464 2010 CO_{143} 1 28.1 17°.95 0°.4/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.41	+14 2.5	1.998	2.797	13.9	20.5
1 2	8 57.55	+14 44.9	1.915	2.798	10.7	20.3
1 12	8 51.51	+15 40.0	1.856	2.800	6.9	20.1
1 22	8 43.87	+16 43.6	1.824	2.802	2.8	19.8
2 1	8 35.50	+17 50.6	1.821	2.804	1.6	19.8
2 11	8 27.47	+18 55.0	1.848	2.807	5.9	20.0
2 21	8 20.72	+19 52.1	1.902	2.809	9.7	20.3
3 2	8 16.01	+20 39.0	1.980	2.812	13.1	20.5

502679 2015 CZ_{56} 1 28.1 337°.60 4°.9/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.58	+32 38.4	2.123	2.929	13.0	21.2
1 2	9 3.79	+32 58.3	2.042	2.925	10.2	21.0
1 12	8 55.47	+33 13.6	1.986	2.921	7.2	20.8
1 22	8 45.37	+33 18.6	1.956	2.917	5.1	20.7
2 1	8 34.57	+33 8.7	1.955	2.913	5.5	20.7
2 11	8 24.35	+32 41.9	1.983	2.910	8.1	20.9
2 21	8 15.79	+31 59.4	2.038	2.907	11.1	21.1
3 2	8 9.70	+31 4.3	2.116	2.904	13.9	21.2

68143 2001 AK_{36} 1 28.1 116°.64 2°.8/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.43	+24 16.2	1.834	2.640	14.7	19.5
1 2	9 5.25	+24 49.9	1.768	2.656	11.2	19.4
1 12	8 56.41	+25 26.3	1.727	2.672	7.2	19.1
1 22	8 45.72	+25 59.4	1.712	2.687	3.5	19.0
2 1	8 34.36	+26 23.5	1.727	2.702	3.7	19.0
2 11	8 23.70	+26 34.9	1.771	2.716	7.4	19.2
2 21	8 14.88	+26 33.0	1.842	2.730	11.1	19.5
3 2	8 8.68	+26 19.0	1.936	2.743	14.3	19.7

420335 2012 BD_{11} 1 28.1 41°.96 5°.8/ 1.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.00	− 5 25.5	0.954	1.737	26.8	19.6
1 2	9 0.62	− 3 27.8	0.887	1.746	22.1	19.3
1 12	8 54.44	− 0 28.2	0.835	1.756	16.4	19.0
1 22	8 45.24	+ 3 30.4	0.805	1.767	10.0	18.7
2 1	8 34.58	+ 8 9.9	0.800	1.778	5.8	18.5
2 11	8 24.54	+12 59.0	0.824	1.790	9.4	18.8
2 21	8 17.02	+17 26.2	0.873	1.803	15.5	19.1
3 2	8 13.32	+21 11.4	0.946	1.815	20.9	19.5

462250 2008 CC_{170} 1 28.1 300°.50 2°.9/29.6 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.88	+ 9 31.9	1.669	2.463	16.5	21.7
1 2	8 59.17	+ 9 37.2	1.576	2.452	13.1	21.4
1 12	8 52.83	+ 9 59.4	1.505	2.441	9.1	21.1
1 22	8 44.47	+10 37.3	1.458	2.429	4.8	20.9
2 1	8 35.09	+11 27.0	1.439	2.418	3.1	20.7
2 11	8 25.96	+12 23.1	1.447	2.408	6.9	20.9
2 21	8 18.32	+13 19.4	1.481	2.397	11.3	21.2
3 2	8 13.13	+14 11.0	1.538	2.387	15.3	21.4

14533 Roy 1 28.1 147°.60 3°.6/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.68	+ 5 21.6	2.210	2.965	14.1	19.3
1 2	8 59.70	+ 5 27.5	2.126	2.974	11.3	19.1
1 12	8 52.71	+ 5 49.0	2.065	2.983	8.2	18.9
1 22	8 44.30	+ 6 25.1	2.031	2.991	5.0	18.7
2 1	8 35.26	+ 7 13.1	2.026	2.999	3.7	18.7
2 11	8 26.57	+ 8 8.6	2.051	3.006	5.8	18.8
2 21	8 19.07	+ 9 6.9	2.105	3.012	9.0	19.0
3 2	8 13.47	+10 3.6	2.185	3.018	12.0	19.2

261518 2005 WW_{68} 1 28.1 308°.53 6°.4/31.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.45	+ 3 11.1	1.802	2.565	16.6	20.0
1 2	8 59.39	+ 2 20.0	1.706	2.552	13.8	19.8
1 12	8 52.87	+ 1 45.2	1.630	2.539	10.6	19.6
1 22	8 44.47	+ 1 29.0	1.579	2.526	7.6	19.4
2 1	8 35.11	+ 1 32.0	1.554	2.514	6.4	19.2
2 11	8 25.97	+ 1 52.1	1.556	2.501	8.2	19.3
2 21	8 18.18	+ 2 25.1	1.584	2.489	11.5	19.5
3 2	8 12.65	+ 3 5.5	1.635	2.478	14.9	19.7

454412 2014 NY_{47} 1 28.1 231°.49 2°.1/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.41	+12 27.5	1.818	2.605	15.6	21.7
1 2	9 3.20	+12 19.9	1.722	2.595	12.3	21.5
1 12	8 55.33	+12 24.1	1.647	2.584	8.3	21.2
1 22	8 45.42	+12 38.4	1.599	2.573	4.0	20.9
2 1	8 34.49	+12 59.9	1.580	2.561	2.5	20.8
2 11	8 23.85	+13 24.6	1.590	2.549	6.6	21.0
2 21	8 14.69	+13 48.8	1.627	2.536	11.0	21.3
3 2	8 7.98	+14 9.6	1.688	2.522	14.9	21.5

334280 2001 UJ_{133} 1 28.1 53°.99 1°.2/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.87	+13 28.3	2.079	2.871	13.7	21.1
1 2	8 58.38	+13 37.9	2.010	2.888	10.5	20.9
1 12	8 51.86	+13 57.6	1.965	2.905	6.9	20.7
1 22	8 43.95	+14 25.0	1.947	2.923	3.1	20.5
2 1	8 35.53	+14 56.4	1.958	2.940	1.8	20.4
2 11	8 27.58	+15 28.2	1.998	2.958	5.4	20.7
2 21	8 20.95	+15 57.0	2.067	2.976	9.0	20.9
3 2	8 16.28	+16 20.5	2.159	2.994	12.1	21.2

465035 2006 PO_{25} 1 28.1 127°.69 0°.3/28.4 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.37	+15 0.1	3.115	3.892	9.9	22.5
1 2	8 57.37	+15 27.1	3.038	3.909	7.6	22.3
1 12	8 50.95	+16 0.6	2.987	3.927	4.9	22.2
1 22	8 43.55	+16 38.2	2.966	3.943	2.0	22.0
2 1	8 35.78	+17 16.9	2.976	3.959	1.1	21.9
2 11	8 28.29	+17 53.9	3.018	3.975	4.0	22.2
2 21	8 21.67	+18 27.1	3.091	3.989	6.7	22.4
3 2	8 16.42	+18 54.7	3.190	4.004	9.1	22.5

362056 2009 BS_{46} 1 28.1 39°.12 1°.7/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.99	+12 50.9	1.217	2.039	19.7	20.9
1 2	9 1.21	+13 1.1	1.161	2.055	15.3	20.6
1 12	8 54.23	+13 28.9	1.125	2.071	10.1	20.4
1 22	8 44.97	+14 10.3	1.111	2.088	4.4	20.1
2 1	8 34.88	+14 58.9	1.123	2.106	2.5	20.0
2 11	8 25.64	+15 47.3	1.161	2.125	7.7	20.4
2 21	8 18.62	+16 29.7	1.223	2.144	12.8	20.7
3 2	8 14.70	+17 2.5	1.306	2.163	17.0	21.1

273429 2006 WB_{76} 1 28.1 155°.53 0°.7/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.99	+17 40.1	1.491	2.302	17.3	21.5
1 2	9 4.81	+18 10.1	1.416	2.306	13.3	21.2
1 12	8 56.52	+18 51.4	1.363	2.311	8.5	21.0
1 22	8 45.89	+19 38.7	1.335	2.314	3.2	20.7
2 1	8 34.25	+20 24.9	1.336	2.318	2.4	20.6
2 11	8 23.19	+21 3.7	1.364	2.321	7.7	21.0
2 21	8 14.14	+21 31.4	1.417	2.323	12.5	21.2
3 2	8 8.10	+21 46.8	1.493	2.325	16.6	21.5

263607 2008 FN_{135} 1 28.1 97°.11 2°.4/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.06	+21 48.0	1.823	2.636	14.5	21.1
1 2	9 1.32	+22 38.9	1.751	2.643	11.0	20.9
1 12	8 54.02	+23 36.4	1.703	2.651	7.0	20.7
1 22	8 44.86	+24 34.1	1.681	2.658	3.2	20.5
2 1	8 34.93	+25 25.5	1.689	2.666	3.4	20.5
2 11	8 25.50	+26 5.3	1.725	2.673	7.3	20.8
2 21	8 17.69	+26 30.8	1.787	2.680	11.1	21.0
3 2	8 12.33	+26 42.0	1.873	2.688	14.5	21.2

24904 1997 BM_{8} 1 28.1 135°.89 0°.1/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.52	+17 7.3	1.654	2.454	16.3	18.7
1 2	9 5.55	+17 18.1	1.582	2.465	12.5	18.5
1 12	8 56.75	+17 38.3	1.532	2.476	8.1	18.3
1 22	8 45.91	+18 3.5	1.508	2.487	3.1	18.0
2 1	8 34.27	+18 28.9	1.513	2.496	2.0	17.9
2 11	8 23.28	+18 50.1	1.548	2.505	6.9	18.3
2 21	8 14.17	+19 4.2	1.609	2.514	11.4	18.5
3 2	8 7.83	+19 10.2	1.693	2.521	15.1	18.8

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
420037 2011 DY_{10}			1 28.1 310°.02		1°.5/27.3 18	
	h m	° ′			°	m
12 23	9 6.23	+21 51.6	1.824	2.636	14.5	20.9
1 2	9 1.58	+22 1.0	1.733	2.625	11.2	20.7
1 12	8 54.29	+22 14.9	1.665	2.613	7.2	20.4
1 22	8 45.03	+22 29.0	1.624	2.602	2.9	20.1
2 1	8 34.83	+22 38.8	1.611	2.591	2.7	20.1
2 11	8 25.02	+22 40.8	1.626	2.581	7.0	20.3
2 21	8 16.79	+22 33.4	1.668	2.571	11.2	20.6
3 2	8 11.05	+22 16.7	1.733	2.561	14.9	20.8
12073 Larimer			1 28.1 220°.48		3°.6/30.1 18	
12 23	9 5.19	+ 7 32.4	1.816	2.593	16.0	18.3
1 2	9 0.66	+ 7 29.7	1.725	2.588	12.8	18.1
1 12	8 53.65	+ 7 43.7	1.656	2.583	9.1	17.9
1 22	8 44.78	+ 8 13.5	1.612	2.578	5.3	17.6
2 1	8 35.00	+ 8 56.3	1.596	2.573	3.7	17.5
2 11	8 25.51	+ 9 47.3	1.609	2.567	6.7	17.7
2 21	8 17.45	+10 40.9	1.649	2.561	10.7	17.9
3 2	8 11.69	+11 32.4	1.713	2.555	14.4	18.1
340603 2006 QG_{44}			1 28.1 120°.79		2°.5/25.9 18	
12 23	9 3.96	+24 47.3	2.794	3.593	10.4	21.1
1 2	8 58.86	+25 39.8	2.724	3.609	7.9	20.9
1 12	8 52.04	+26 34.1	2.681	3.624	5.1	20.8
1 22	8 44.03	+27 26.0	2.666	3.639	2.8	20.6
2 1	8 35.54	+28 11.2	2.683	3.653	3.1	20.7
2 11	8 27.38	+28 46.4	2.731	3.668	5.6	20.9
2 21	8 20.29	+29 10.2	2.807	3.681	8.2	21.0
3 2	8 14.85	+29 22.6	2.908	3.695	10.6	21.2
41971 2000 YM_{6}			1 28.1 352°.90		1°.4/28.7 18	
12 23	9 5.59	+15 11.4	1.758	2.560	15.4	18.2
1 2	9 0.98	+14 52.6	1.674	2.558	12.0	18.0
1 12	8 53.83	+14 42.6	1.613	2.556	7.9	17.7
1 22	8 44.82	+14 39.6	1.578	2.554	3.5	17.5
2 1	8 35.01	+14 40.9	1.571	2.553	2.1	17.4
2 11	8 25.64	+14 43.8	1.592	2.552	6.4	17.6
2 21	8 17.86	+14 45.6	1.640	2.552	10.7	17.9
3 2	8 12.49	+14 44.7	1.711	2.552	14.4	18.1
186905 2004 LR_{15}			1 28.1 196°.90		1°.3/27.1 18	
12 23	9 4.88	+18 26.9	2.301	3.096	12.4	20.8
1 2	9 0.03	+19 27.2	2.210	3.094	9.5	20.6
1 12	8 53.06	+20 36.5	2.145	3.090	6.0	20.4
1 22	8 44.51	+21 49.8	2.109	3.087	2.4	20.1
2 1	8 35.19	+23 1.2	2.103	3.083	2.3	20.1
2 11	8 26.09	+24 5.5	2.128	3.078	6.0	20.4
2 21	8 18.16	+24 58.6	2.182	3.073	9.5	20.6
3 2	8 12.17	+25 39.0	2.261	3.067	12.6	20.8
20558 1999 RN_{117}			1 28.1 132°.97		3°.0/30.0 18	
12 23	9 4.91	+ 8 10.8	2.334	3.097	13.3	18.7
1 2	8 59.74	+ 8 1.5	2.252	3.108	10.5	18.5
1 12	8 52.68	+ 8 4.2	2.195	3.118	7.4	18.3
1 22	8 44.30	+ 8 17.9	2.164	3.129	4.3	18.1
2 1	8 35.37	+ 8 40.7	2.163	3.138	3.1	18.1
2 11	8 26.80	+ 9 9.5	2.193	3.148	5.4	18.2
2 21	8 19.40	+ 9 40.8	2.251	3.157	8.5	18.4
3 2	8 13.81	+10 11.6	2.334	3.165	11.4	18.6
459757 2013 QJ_{51}			1 28.1 51°.04		2°.1/29.3 18	
12 23	9 3.15	+11 1.8	1.897	2.686	14.9	21.2
1 2	8 58.92	+11 10.9	1.816	2.690	11.7	21.0
1 12	8 52.41	+11 33.6	1.758	2.694	7.9	20.7
1 22	8 44.25	+12 7.6	1.726	2.699	3.9	20.5
2 1	8 35.38	+12 49.4	1.722	2.703	2.4	20.4
2 11	8 26.90	+13 34.2	1.747	2.707	6.0	20.6
2 21	8 19.80	+14 17.5	1.799	2.712	9.9	20.9
3 2	8 14.86	+14 55.7	1.876	2.717	13.4	21.1
235606 2004 PA_{70}			1 28.1 160°.07		3°.3/30.0 18	
12 23	9 7.10	+ 7 49.7	1.818	2.592	16.1	21.3
1 2	9 2.01	+ 7 52.4	1.735	2.598	12.8	21.1
1 12	8 54.44	+ 8 11.7	1.675	2.603	9.0	20.9
1 22	8 45.06	+ 8 46.1	1.640	2.607	5.1	20.7
2 1	8 34.87	+ 9 32.3	1.634	2.611	3.5	20.6
2 11	8 25.08	+10 25.1	1.656	2.614	6.5	20.8
2 21	8 16.79	+11 19.2	1.707	2.617	10.5	21.0
3 2	8 10.84	+12 9.9	1.781	2.619	14.1	21.2
243811 2000 SR_{237}			1 28.1 189°.88		6°.9/20.5 18	
12 23	9 11.27	+47 20.0	3.423	4.183	9.5	21.5
1 2	9 4.66	+48 27.0	3.357	4.182	8.2	21.4
1 12	8 55.89	+49 24.5	3.315	4.179	7.2	21.3
1 22	8 45.56	+50 7.0	3.301	4.177	6.9	21.3
2 1	8 34.56	+50 30.3	3.315	4.173	7.5	21.3
2 11	8 23.92	+50 32.7	3.356	4.170	8.6	21.4
2 21	8 14.58	+50 15.3	3.421	4.165	9.9	21.5
3 2	8 7.29	+49 40.9	3.507	4.160	11.2	21.6

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
304806 2007 PA_{35}			1 28.1 144°.62		0°.8/28.6 18	
	h m	° ′			°	m
12 23	9 8.62	+14 8.6	2.032	2.816	14.3	22.0
1 2	9 2.87	+14 27.7	1.954	2.828	11.0	21.8
1 12	8 54.83	+14 57.3	1.900	2.840	7.2	21.6
1 22	8 45.16	+15 34.1	1.874	2.851	3.0	21.3
2 1	8 34.83	+16 13.8	1.878	2.861	1.7	21.3
2 11	8 24.95	+16 52.0	1.912	2.870	5.8	21.6
2 21	8 16.52	+17 25.4	1.975	2.878	9.7	21.8
3 2	8 10.29	+17 51.7	2.062	2.886	13.0	22.0
1983 Bok			1 28.1 102°.32		5°.2/25.2 18	R
12 23	9 10.00	+30 32.1	1.858	2.671	14.3	17.4
1 2	9 4.39	+31 26.8	1.794	2.681	11.1	17.2
1 12	8 56.00	+32 19.7	1.753	2.691	7.8	17.0
1 22	8 45.65	+33 3.2	1.738	2.701	5.4	16.9
2 1	8 34.54	+33 30.5	1.752	2.711	6.0	17.0
2 11	8 24.09	+33 38.2	1.794	2.720	8.9	17.1
2 21	8 15.52	+33 26.6	1.862	2.729	12.1	17.4
3 2	8 9.66	+32 58.6	1.952	2.738	15.0	17.6
414859 2010 VG_{89}			1 28.1 69°.90		0°.4/28.3 18	
12 23	9 8.13	+16 10.9	1.689	2.491	15.9	21.4
1 2	9 2.74	+16 21.0	1.630	2.514	12.2	21.2
1 12	8 54.80	+16 40.7	1.593	2.538	7.8	21.0
1 22	8 45.14	+17 6.2	1.583	2.561	3.1	20.8
2 1	8 34.91	+17 33.0	1.601	2.584	1.8	20.7
2 11	8 25.41	+17 56.9	1.648	2.607	6.4	21.1
2 21	8 17.69	+18 14.9	1.722	2.630	10.5	21.3
3 2	8 12.50	+18 25.6	1.819	2.653	14.0	21.6
500242 2012 JF_{33}			1 28.1 266°.71		2°.5/29.7 17	
12 23	9 3.12	+ 9 22.5	1.981	2.763	14.7	22.1
1 2	8 58.98	+ 9 33.6	1.882	2.750	11.6	21.9
1 12	8 52.55	+ 9 59.7	1.805	2.737	8.0	21.6
1 22	8 44.38	+10 39.3	1.754	2.725	4.3	21.4
2 1	8 35.31	+11 29.1	1.732	2.712	2.7	21.2
2 11	8 26.43	+12 24.2	1.739	2.698	6.1	21.4
2 21	8 18.80	+13 19.5	1.773	2.685	10.1	21.6
3 2	8 13.25	+14 10.6	1.832	2.672	13.7	21.8
464159 2015 AC_{1}			1 28.1 24°.41		1°.9/26.8 18	
12 23	9 1.12	+16 57.4	1.437	2.264	17.0	20.4
1 2	8 58.12	+18 27.7	1.374	2.274	12.9	20.1
1 12	8 52.26	+20 13.7	1.332	2.284	8.1	19.9
1 22	8 44.29	+22 6.9	1.316	2.295	3.2	19.6
2 1	8 35.40	+23 56.3	1.327	2.307	3.4	19.7
2 11	8 27.05	+25 31.8	1.366	2.320	8.2	20.0
2 21	8 20.53	+26 47.4	1.430	2.334	12.6	20.3
3 2	8 16.76	+27 40.8	1.516	2.348	16.4	20.5
170222 2003 QM_{13}			1 28.1 225°.88		5°.6/24.8 18	
12 23	9 13.60	+32 32.7	2.074	2.874	13.4	20.8
1 2	9 7.23	+33 26.8	1.984	2.862	10.6	20.5
1 12	8 57.96	+34 18.6	1.918	2.850	7.7	20.3
1 22	8 46.49	+35 0.3	1.880	2.836	5.7	20.2
2 1	8 33.96	+35 25.0	1.871	2.822	6.4	20.2
2 11	8 21.83	+35 28.5	1.890	2.807	9.1	20.3
2 21	8 11.41	+35 11.0	1.936	2.791	12.3	20.5
3 2	8 3.70	+34 35.6	2.005	2.774	15.2	20.7
466447 2013 TA_{88}			1 28.1 174°.83		1°.7/26.9 16	
12 23	9 5.55	+21 48.1	2.229	3.032	12.6	22.0
1 2	9 0.53	+22 21.0	2.146	3.033	9.6	21.8
1 12	8 53.35	+22 58.6	2.088	3.034	6.1	21.6
1 22	8 44.62	+23 36.4	2.057	3.035	2.6	21.4
2 1	8 35.20	+24 9.8	2.057	3.035	2.7	21.4
2 11	8 26.15	+24 35.1	2.086	3.035	6.1	21.6
2 21	8 18.41	+24 50.1	2.143	3.035	9.6	21.8
3 2	8 12.70	+24 54.6	2.225	3.035	12.6	22.0
204157 2004 AA_{5}			1 28.1 29°.60		1°.1/28.7 18	
12 23	9 4.58	+14 58.8	2.153	2.944	13.3	19.7
1 2	8 59.74	+14 49.0	2.068	2.946	10.3	19.5
1 12	8 52.82	+14 46.9	2.007	2.947	6.8	19.3
1 22	8 44.40	+14 50.7	1.973	2.949	3.0	19.0
2 1	8 35.36	+14 58.1	1.969	2.951	1.8	18.9
2 11	8 26.70	+15 6.2	1.994	2.954	5.5	19.2
2 21	8 19.32	+15 13.0	2.048	2.956	9.1	19.4
3 2	8 13.92	+15 16.6	2.126	2.958	12.3	19.6
500193 2012 GP_{34}			1 28.1 281°.43		1°.7/27.2 17	
12 23	9 7.09	+21 35.8	1.920	2.727	14.1	22.3
1 2	9 2.33	+21 58.8	1.814	2.703	10.9	22.0
1 12	8 54.89	+22 27.8	1.732	2.679	7.0	21.8
1 22	8 45.35	+22 58.1	1.676	2.654	3.0	21.4
2 1	8 34.68	+23 24.4	1.650	2.629	2.9	21.4
2 11	8 24.18	+23 42.3	1.652	2.604	7.2	21.6
2 21	8 15.09	+23 49.1	1.681	2.579	11.4	21.8
3 2	8 8.44	+23 44.4	1.734	2.554	15.2	22.0

14187 1998 XS_9 1 28.1 170°.26 1°.3/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.48	+12 54.3	1.817	2.605	15.5	18.5
1 2	9 3.13	+13 10.5	1.734	2.609	12.1	18.3
1 12	8 55.21	+13 39.7	1.673	2.613	8.0	18.1
1 22	8 45.40	+14 18.8	1.639	2.615	3.5	17.8
2 1	8 34.73	+15 3.2	1.635	2.617	2.0	17.7
2 11	8 24.48	+15 47.8	1.659	2.618	6.4	18.0
2 21	8 15.79	+16 28.2	1.711	2.619	10.6	18.2
3 2	8 9.53	+17 1.4	1.788	2.619	14.3	18.5

258110 2001 QW_{213} 1 28.1 186°.61 3°.8/26.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.03	+29 5.9	2.181	2.981	12.9	20.8
1 2	9 5.58	+29 32.6	2.098	2.980	10.0	20.6
1 12	8 56.63	+29 57.7	2.041	2.980	6.8	20.4
1 22	8 45.90	+30 15.6	2.011	2.979	4.2	20.3
2 1	8 34.44	+30 21.4	2.011	2.977	4.5	20.3
2 11	8 23.50	+30 12.6	2.041	2.975	7.4	20.5
2 21	8 14.15	+29 49.4	2.098	2.972	10.6	20.6
3 2	8 7.21	+29 13.9	2.180	2.969	13.5	20.8

65083 2002 BL_{15} 1 28.1 88°.24 2°.0/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.31	+10 49.2	1.615	2.404	17.2	19.2
1 2	9 3.69	+11 10.7	1.558	2.431	13.3	19.0
1 12	8 55.45	+11 48.2	1.521	2.459	8.8	18.8
1 22	8 45.42	+12 37.7	1.511	2.485	4.2	18.5
2 1	8 34.79	+13 33.8	1.530	2.511	2.4	18.5
2 11	8 24.89	+14 30.3	1.577	2.537	6.5	18.8
2 21	8 16.84	+15 21.8	1.651	2.562	10.7	19.1
3 2	8 11.39	+16 5.1	1.749	2.586	14.3	19.4

149505 2003 FS_{49} 1 28.1 336°.02 2°.1/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.19	+11 54.7	1.435	2.251	17.6	19.8
1 2	8 57.55	+12 3.0	1.346	2.236	13.8	19.5
1 12	8 52.05	+12 28.5	1.278	2.223	9.4	19.2
1 22	8 44.30	+13 9.3	1.234	2.210	4.4	18.9
2 1	8 35.40	+14 0.6	1.216	2.198	2.6	18.7
2 11	8 26.81	+14 55.7	1.223	2.187	7.4	19.0
2 21	8 19.90	+15 48.2	1.256	2.178	12.4	19.2
3 2	8 15.74	+16 33.1	1.309	2.169	16.8	19.5

390189 2012 WV_{20} 1 28.1 133°.98 1°.1/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.86	+19 11.1	1.667	2.470	16.1	21.7
1 2	9 5.85	+19 40.1	1.597	2.483	12.3	21.5
1 12	8 56.98	+20 17.3	1.550	2.496	7.8	21.3
1 22	8 46.07	+20 57.1	1.529	2.508	3.0	21.0
2 1	8 34.36	+21 33.6	1.538	2.519	2.5	21.0
2 11	8 23.31	+22 1.6	1.576	2.530	7.2	21.3
2 21	8 14.17	+22 18.7	1.640	2.540	11.5	21.6
3 2	8 7.81	+22 24.7	1.727	2.549	15.2	21.9

237733 2001 WP_{103} 1 28.1 290°.89 4°.9/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.60	+ 6 1.0	1.502	2.288	18.4	20.5
1 2	9 0.71	+ 5 44.7	1.416	2.282	14.9	20.3
1 12	8 53.96	+ 5 48.7	1.350	2.277	10.8	20.0
1 22	8 45.01	+ 6 13.3	1.308	2.271	6.7	19.8
2 1	8 34.98	+ 6 56.2	1.292	2.265	5.0	19.7
2 11	8 25.29	+ 7 51.8	1.302	2.260	7.9	19.8
2 21	8 17.28	+ 8 53.4	1.337	2.255	12.2	20.0
3 2	8 11.97	+ 9 54.1	1.396	2.249	16.3	20.3

313201 2001 QU_{230} 1 28.1 194°.78 0°.1/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.80	+18 1.3	2.163	2.953	13.3	21.3
1 2	9 3.02	+18 1.3	2.073	2.951	10.2	21.1
1 12	8 54.97	+18 7.2	2.006	2.949	6.6	20.9
1 22	8 45.28	+18 16.1	1.968	2.946	2.6	20.6
2 1	8 34.86	+18 24.8	1.960	2.943	1.6	20.5
2 11	8 24.81	+18 30.6	1.983	2.939	5.8	20.8
2 21	8 16.13	+18 31.6	2.034	2.935	9.5	21.0
3 2	8 9.58	+18 27.1	2.110	2.930	12.8	21.2

302026 2000 SF_{135} 1 28.1 178°.94 2°.9/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.29	+10 6.6	1.888	2.665	15.5	21.1
1 2	9 2.88	+ 9 55.0	1.801	2.667	12.2	20.8
1 12	8 55.00	+ 9 56.4	1.737	2.668	8.4	20.6
1 22	8 45.32	+10 9.7	1.699	2.668	4.5	20.4
2 1	8 34.82	+10 32.2	1.690	2.668	3.1	20.3
2 11	8 24.70	+11 0.3	1.710	2.667	6.4	20.5
2 21	8 16.06	+11 30.1	1.758	2.666	10.3	20.7
3 2	8 9.73	+11 58.0	1.830	2.665	13.9	20.9

158543 2002 GC_{106} 1 28.1 303°.52 3°.4/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.51	+23 29.3	1.837	2.656	14.2	20.0
1 2	8 59.68	+24 36.2	1.748	2.643	10.8	19.8
1 12	8 53.22	+25 50.6	1.682	2.630	7.1	19.6
1 22	8 44.72	+27 5.6	1.643	2.617	3.8	19.3
2 1	8 35.17	+28 13.3	1.633	2.605	4.4	19.3
2 11	8 25.87	+29 7.0	1.650	2.592	8.1	19.5
2 21	8 18.06	+29 43.3	1.694	2.580	12.0	19.7
3 2	8 12.70	+30 1.6	1.759	2.568	15.5	19.9

495676 2016 AG_{181} 1 28.1 221°.09 2°.6/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.93	+10 59.0	2.252	3.023	13.4	21.4
1 2	9 1.53	+10 38.5	2.153	3.016	10.6	21.2
1 12	8 54.00	+10 27.6	2.078	3.008	7.3	21.0
1 22	8 44.91	+10 25.6	2.030	2.999	4.0	20.8
2 1	8 35.08	+10 30.8	2.012	2.990	2.8	20.7
2 11	8 25.50	+10 40.9	2.025	2.981	5.7	20.9
2 21	8 17.11	+10 53.3	2.066	2.971	9.2	21.1
3 2	8 10.66	+11 5.6	2.132	2.961	12.4	21.2

201178 2002 PA_5 1 28.1 53°.95 5°.5/31.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.34	+ 2 2.5	1.966	2.720	15.7	20.1
1 2	8 58.10	+ 1 40.4	1.894	2.735	12.9	19.9
1 12	8 51.79	+ 1 36.8	1.844	2.749	9.7	19.8
1 22	8 44.03	+ 1 51.9	1.817	2.765	6.8	19.6
2 1	8 35.68	+ 2 24.3	1.819	2.780	5.5	19.6
2 11	8 27.77	+ 3 9.8	1.848	2.795	7.0	19.7
2 21	8 21.18	+ 4 3.4	1.904	2.811	9.8	19.9
3 2	8 16.58	+ 4 59.7	1.985	2.827	12.7	20.1

299388 2005 WO_{87} 1 28.1 312°.75 3°.0/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.28	+12 38.7	1.345	2.157	18.7	20.4
1 2	9 2.42	+12 9.7	1.257	2.144	14.9	20.1
1 12	8 55.29	+11 54.1	1.190	2.132	10.2	19.8
1 22	8 45.60	+11 51.1	1.146	2.120	5.2	19.5
2 1	8 34.60	+11 58.6	1.128	2.109	3.4	19.3
2 11	8 23.97	+12 12.3	1.135	2.097	8.1	19.6
2 21	8 15.29	+12 28.2	1.167	2.087	13.3	19.8
3 2	8 9.73	+12 42.3	1.220	2.077	18.0	20.1

244758 2003 SF_{84} 1 28.1 176°.55 4°.0/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.89	+ 5 31.4	2.332	3.078	13.7	22.0
1 2	9 2.10	+ 5 14.5	2.240	3.082	11.1	21.8
1 12	8 54.28	+ 5 10.9	2.171	3.084	8.1	21.6
1 22	8 45.00	+ 5 20.6	2.129	3.086	5.2	21.4
2 1	8 35.05	+ 5 42.1	2.118	3.087	4.0	21.3
2 11	8 25.39	+ 6 12.4	2.137	3.086	6.0	21.5
2 21	8 16.91	+ 6 48.0	2.184	3.085	9.0	21.6
3 2	8 10.29	+ 7 25.2	2.258	3.083	12.0	21.8

97136 1999 VW_{115} 1 28.1 166°.62 0°.6/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.91	+14 53.2	2.241	3.031	12.9	21.0
1 2	8 59.22	+15 13.1	2.155	3.033	9.9	20.8
1 12	8 52.50	+15 42.3	2.093	3.035	6.5	20.6
1 22	8 44.32	+16 17.9	2.059	3.037	2.6	20.4
2 1	8 35.49	+16 56.1	2.055	3.038	1.5	20.3
2 11	8 26.98	+17 32.9	2.081	3.039	5.4	20.5
2 21	8 19.66	+18 5.2	2.135	3.040	9.0	20.8
3 2	8 14.25	+18 30.8	2.214	3.041	12.1	21.0

419118 2009 SO_{203} 1 28.1 119°.10 1°.9/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.72	+10 48.3	2.042	2.826	14.2	21.9
1 2	8 59.20	+11 7.0	1.961	2.833	11.1	21.7
1 12	8 52.55	+11 39.0	1.904	2.839	7.5	21.5
1 22	8 44.35	+12 21.9	1.873	2.846	3.6	21.3
2 1	8 35.48	+13 11.7	1.871	2.852	2.2	21.2
2 11	8 26.98	+14 3.7	1.898	2.858	5.6	21.4
2 21	8 19.77	+14 53.3	1.954	2.864	9.4	21.7
3 2	8 14.59	+15 37.1	2.034	2.870	12.7	21.9

221293 2005 UL_{449} 1 28.1 64°.57 4°.9/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.64	+29 48.5	1.771	2.587	14.8	20.1
1 2	9 4.17	+30 31.3	1.708	2.598	11.4	19.9
1 12	8 55.89	+31 12.2	1.669	2.610	7.8	19.8
1 22	8 45.64	+31 44.2	1.656	2.622	5.2	19.6
2 1	8 34.69	+32 0.9	1.670	2.633	5.7	19.7
2 11	8 24.48	+31 59.3	1.713	2.645	8.7	19.9
2 21	8 16.20	+31 40.0	1.781	2.657	12.1	20.1
3 2	8 10.68	+31 5.8	1.871	2.669	15.1	20.3

420844 2013 JC_{44} 1 28.1 199°.56 4°.7/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.05	+32 7.5	2.524	3.318	11.5	21.4
1 2	9 4.71	+33 0.4	2.438	3.314	9.0	21.2
1 12	8 56.06	+33 51.2	2.378	3.309	6.5	21.1
1 22	8 45.72	+34 33.6	2.346	3.302	4.8	21.0
2 1	8 34.60	+35 2.2	2.345	3.295	5.4	21.0
2 11	8 23.83	+35 14.0	2.374	3.288	7.7	21.1
2 21	8 14.43	+35 8.5	2.430	3.279	10.3	21.3
3 2	8 7.19	+34 47.7	2.510	3.270	12.8	21.4

433336 2013 RL_{35} 1 28.1 85°.65 5°.5/ 1.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.46	− 2 18.6	2.313	3.033	14.6	21.1
1 2	8 57.85	− 2 7.2	2.242	3.056	12.1	21.0
1 12	8 51.47	− 1 35.6	2.193	3.080	9.4	20.9
1 22	8 43.88	− 0 44.5	2.168	3.103	6.8	20.7
2 1	8 35.82	+ 0 23.7	2.173	3.126	5.5	20.7
2 11	8 28.15	+ 1 44.1	2.207	3.149	6.4	20.8
2 21	8 21.62	+ 3 10.7	2.269	3.171	8.7	21.0
3 2	8 16.82	+ 4 37.7	2.359	3.193	11.2	21.2

283951 2004 PY_{112} 1 28.1 145°.60 2°.9/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.06	+10 9.7	1.770	2.550	16.2	21.4
1 2	9 3.53	+ 9 58.4	1.691	2.559	12.8	21.2
1 12	8 55.44	+10 0.9	1.635	2.567	8.8	21.0
1 22	8 45.50	+10 15.8	1.604	2.574	4.7	20.8
2 1	8 34.76	+10 40.4	1.602	2.581	3.2	20.7
2 11	8 24.52	+11 10.3	1.629	2.587	6.6	20.9
2 21	8 15.91	+11 41.5	1.683	2.593	10.7	21.2
3 2	8 9.74	+12 10.3	1.761	2.598	14.3	21.4

382449 2000 NH_1 1 28.1 97°.82 2°.2/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.62	+10 59.0	2.428	3.202	12.5	21.1
1 2	8 58.73	+10 46.2	2.346	3.210	9.8	20.9
1 12	8 52.05	+10 42.9	2.288	3.219	6.7	20.7
1 22	8 44.11	+10 47.9	2.257	3.227	3.6	20.6
2 1	8 35.66	+10 59.4	2.257	3.235	2.4	20.5
2 11	8 27.56	+11 14.9	2.286	3.244	5.0	20.7
2 21	8 20.57	+11 31.8	2.345	3.252	8.2	20.9
3 2	8 15.30	+11 47.9	2.429	3.260	11.0	21.1

54288 Daikikawasaki 1 28.1 189°.34 5°.4/31.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.27	+ 0 26.2	2.387	3.115	13.9	19.4
1 2	8 59.36	+ 0 5.6	2.292	3.114	11.6	19.2
1 12	8 52.55	+ 0 1.4	2.219	3.113	9.0	19.0
1 22	8 44.34	+ 0 14.2	2.172	3.111	6.5	18.8
2 1	8 35.49	+ 0 43.4	2.154	3.108	5.4	18.8
2 11	8 26.86	+ 1 25.9	2.165	3.105	6.6	18.8
2 21	8 19.28	+ 2 17.6	2.204	3.101	9.1	19.0
3 2	8 13.44	+ 3 13.8	2.269	3.097	11.8	19.2

221882 2008 HY_{39} 1 28.1 211°.64 3°.1/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.45	+ 7 22.4	2.310	3.071	13.4	22.1
1 2	8 59.61	+ 7 22.5	2.211	3.065	10.7	21.9
1 12	8 52.77	+ 7 36.0	2.136	3.058	7.6	21.7
1 22	8 44.45	+ 8 2.0	2.087	3.051	4.5	21.5
2 1	8 35.41	+ 8 38.4	2.068	3.043	3.2	21.4
2 11	8 26.58	+ 9 21.5	2.079	3.035	5.6	21.6
2 21	8 18.84	+10 7.4	2.119	3.026	8.9	21.7
3 2	8 12.91	+10 52.1	2.185	3.017	12.0	21.9

131866 2002 AG_{153} 1 28.1 1°.14 1°.9/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.91	+21 43.4	1.096	1.942	19.8	18.8
1 2	9 1.89	+21 46.8	1.030	1.939	15.2	18.5
1 12	8 55.12	+21 57.4	0.983	1.938	9.8	18.2
1 22	8 45.53	+22 9.1	0.958	1.938	4.0	17.9
2 1	8 34.74	+22 15.3	0.957	1.939	3.5	17.9
2 11	8 24.78	+22 11.2	0.981	1.942	9.3	18.2
2 21	8 17.35	+21 55.2	1.026	1.946	14.7	18.5
3 2	8 13.54	+21 28.2	1.090	1.951	19.4	18.8

325219 2008 GT_{21} 1 28.1 310°.00 5°.2/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.38	+28 50.9	1.657	2.480	15.3	21.0
1 2	9 2.95	+29 45.0	1.576	2.471	11.9	20.8
1 12	8 55.45	+30 40.4	1.518	2.462	8.2	20.5
1 22	8 45.61	+31 29.0	1.485	2.453	5.4	20.3
2 1	8 34.67	+32 2.6	1.480	2.444	6.1	20.4
2 11	8 24.20	+32 16.1	1.501	2.435	9.5	20.5
2 21	8 15.63	+32 8.7	1.547	2.427	13.4	20.7
3 2	8 9.99	+31 42.7	1.614	2.419	16.8	21.0

337488 2001 SW_{87} 1 28.1 107°.52 4°.5/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.58	+33 4.0	2.323	3.119	12.3	20.5
1 2	9 5.79	+33 17.1	2.246	3.123	9.6	20.4
1 12	8 56.64	+33 24.9	2.195	3.127	6.8	20.2
1 22	8 45.88	+33 22.1	2.171	3.131	4.8	20.1
2 1	8 34.58	+33 5.1	2.178	3.135	5.1	20.1
2 11	8 23.92	+32 32.4	2.214	3.139	7.5	20.2
2 21	8 14.90	+31 45.8	2.278	3.143	10.3	20.4
3 2	8 8.23	+30 48.1	2.366	3.147	12.9	20.6

170761 2004 CF_{27} 1 28.1 222°.31 1°.2/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.19	+11 41.7	2.441	3.222	12.2	20.3
1 2	8 57.04	+12 12.5	2.348	3.220	9.5	20.1
1 12	8 51.08	+12 54.8	2.280	3.217	6.3	19.9
1 22	8 43.79	+13 46.1	2.239	3.214	2.9	19.7
2 1	8 35.87	+14 42.8	2.228	3.211	1.6	19.6
2 11	8 28.17	+15 40.3	2.248	3.207	4.9	19.8
2 21	8 21.49	+16 34.8	2.297	3.204	8.3	20.0
3 2	8 16.47	+17 23.0	2.371	3.201	11.3	20.2

122834 2000 SL_{116} 1 28.1 158°.69 0°.8/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.26	+13 47.8	2.073	2.856	14.1	21.1
1 2	9 2.64	+14 10.4	1.991	2.864	10.9	20.9
1 12	8 54.75	+14 43.9	1.933	2.872	7.1	20.6
1 22	8 45.22	+15 25.1	1.902	2.879	3.0	20.4
2 1	8 34.98	+16 9.6	1.902	2.885	1.7	20.3
2 11	8 25.13	+16 52.8	1.932	2.890	5.8	20.6
2 21	8 16.67	+17 31.0	1.991	2.894	9.6	20.8
3 2	8 10.37	+18 1.9	2.074	2.898	12.9	21.1

354876 2006 BG_{55} 1 28.1 174°.17 2°.0/29.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 25.66	+ 8 43.5	1.572	2.324	19.1	22.2
1 2	9 16.88	+ 9 36.2	1.482	2.335	15.1	21.9
1 12	9 4.46	+10 51.5	1.415	2.343	10.2	21.7
1 22	8 49.16	+12 24.6	1.376	2.348	4.7	21.4
2 1	8 32.41	+14 6.8	1.369	2.350	2.7	21.2
2 11	8 16.11	+15 47.4	1.394	2.349	7.9	21.5
2 21	8 2.00	+17 17.9	1.450	2.344	13.1	21.8
3 2	7 51.32	+18 33.6	1.531	2.336	17.6	22.1

91523 1999 RM_{185} 1 28.1 140°.65 0°.3/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.12	+15 57.8	2.173	2.965	13.2	20.0
1 2	9 0.17	+16 13.2	2.091	2.971	10.1	19.8
1 12	8 53.13	+16 37.0	2.034	2.976	6.5	19.6
1 22	8 44.58	+17 6.1	2.003	2.981	2.6	19.4
2 1	8 35.40	+17 36.8	2.003	2.986	1.5	19.3
2 11	8 26.60	+18 5.4	2.033	2.991	5.5	19.6
2 21	8 19.09	+18 29.1	2.090	2.995	9.2	19.8
3 2	8 13.56	+18 46.1	2.173	2.999	12.3	20.0

238868 2005 XQ_{26} 1 28.1 23°.73 3°.2/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.26	+21 56.2	1.085	1.932	19.9	19.7
1 2	9 2.10	+22 40.3	1.030	1.940	15.2	19.4
1 12	8 55.19	+23 33.9	0.994	1.948	9.7	19.2
1 22	8 45.54	+24 28.0	0.980	1.958	4.4	18.9
2 1	8 34.81	+25 12.7	0.990	1.969	4.6	18.9
2 11	8 25.04	+25 40.8	1.025	1.981	9.8	19.3
2 21	8 17.85	+25 49.9	1.082	1.994	14.9	19.6
3 2	8 14.27	+25 41.2	1.158	2.008	19.2	19.9

211944 2004 XD_{79} 1 28.1 24°.38 1°.6/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.66	+13 36.0	1.157	1.987	20.1	20.3
1 2	9 0.48	+13 39.1	1.098	1.996	15.6	20.1
1 12	8 53.97	+13 59.4	1.058	2.006	10.3	19.8
1 22	8 45.03	+14 33.2	1.040	2.017	4.5	19.5
2 1	8 35.14	+15 14.5	1.046	2.029	2.5	19.4
2 11	8 26.05	+15 56.1	1.078	2.043	8.0	19.8
2 21	8 19.23	+16 32.2	1.133	2.057	13.2	20.1
3 2	8 15.61	+16 59.2	1.208	2.072	17.7	20.4

253181 2002 XP_{16} 1 28.1 95°.79 0°.7/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.67	+17 17.4	1.768	2.567	15.5	20.1
1 2	9 4.05	+16 59.8	1.689	2.572	11.9	19.9
1 12	8 55.79	+16 49.0	1.633	2.577	7.7	19.7
1 22	8 45.65	+16 42.5	1.604	2.582	3.2	19.4
2 1	8 34.75	+16 37.6	1.603	2.586	1.9	19.3
2 11	8 24.42	+16 31.5	1.632	2.591	6.5	19.6
2 21	8 15.81	+16 22.8	1.687	2.596	10.7	19.9
3 2	8 9.73	+16 10.5	1.767	2.600	14.4	20.1

48074 2001 FC_{15} 1 28.1 200°.60 2°.8/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.15	+ 8 29.2	2.013	2.787	14.7	20.1
1 2	9 0.43	+ 8 38.3	1.921	2.784	11.7	19.9
1 12	8 53.44	+ 9 2.5	1.852	2.781	8.2	19.6
1 22	8 44.77	+ 9 40.3	1.809	2.777	4.5	19.4
2 1	8 35.28	+10 28.4	1.795	2.773	3.0	19.3
2 11	8 26.07	+11 22.2	1.810	2.769	6.0	19.5
2 21	8 18.15	+12 16.5	1.854	2.764	9.8	19.7
3 2	8 12.31	+13 7.2	1.922	2.758	13.3	19.9

496331 2013 OH_8 1 28.1 226°.63 1°.1/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.76	+15 8.8	2.193	2.977	13.3	21.2
1 2	9 2.26	+14 57.5	2.095	2.969	10.4	21.0
1 12	8 54.55	+14 53.6	2.021	2.960	6.9	20.8
1 22	8 45.19	+14 55.0	1.975	2.951	3.0	20.5
2 1	8 35.06	+14 59.6	1.960	2.942	1.8	20.4
2 11	8 25.22	+15 4.8	1.974	2.932	5.6	20.7
2 21	8 16.65	+15 8.3	2.017	2.922	9.4	20.9
3 2	8 10.13	+15 8.9	2.085	2.912	12.8	21.1

402106 2003 XQ_{24} 1 28.1 90°.88 1°.0/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.91	+20 3.9	1.659	2.468	15.9	21.0
1 2	9 4.36	+20 15.5	1.591	2.480	12.1	20.8
1 12	8 56.03	+20 33.4	1.545	2.493	7.7	20.6
1 22	8 45.76	+20 53.0	1.526	2.505	3.0	20.3
2 1	8 34.76	+21 9.4	1.535	2.517	2.4	20.3
2 11	8 24.45	+21 18.8	1.573	2.529	7.0	20.6
2 21	8 16.02	+21 19.6	1.637	2.541	11.3	20.9
3 2	8 10.29	+21 11.5	1.725	2.553	14.9	21.1

59821 1999 RR_{25} 1 28.1 246°.52 2°.7/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.22	+11 22.7	1.509	2.306	17.8	19.5
1 2	9 3.62	+11 15.0	1.418	2.296	14.1	19.3
1 12	8 55.96	+11 22.7	1.348	2.286	9.6	19.0
1 22	8 45.89	+11 44.4	1.302	2.275	4.9	18.7
2 1	8 34.59	+12 16.5	1.284	2.264	3.1	18.5
2 11	8 23.61	+12 53.8	1.292	2.253	7.6	18.8
2 21	8 14.39	+13 31.0	1.327	2.242	12.5	19.0
3 2	8 8.04	+14 3.9	1.384	2.230	16.9	19.2

323462 2004 JM_{28} 1 28.1 116°.90 1°.3/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.33	+ 9 32.0	1.194	2.003	20.9	19.8
1 2	9 4.48	+12 10.7	1.118	2.008	16.1	19.5
1 12	8 56.95	+15 27.4	1.065	2.013	10.3	19.2
1 22	8 46.40	+19 9.2	1.038	2.018	3.8	18.9
2 1	8 34.23	+22 54.9	1.041	2.022	3.6	18.9
2 11	8 22.39	+26 21.5	1.074	2.027	10.0	19.2
2 21	8 12.78	+29 13.4	1.133	2.031	15.7	19.6
3 2	8 6.79	+31 25.0	1.214	2.035	20.3	19.9

128315 Dereknelson 1 28.1 229°.92 1°.8/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.50	+19 31.4	1.614	2.426	16.1	19.6
1 2	9 3.77	+20 19.5	1.527	2.418	12.4	19.4
1 12	8 56.02	+21 18.6	1.462	2.410	8.0	19.1
1 22	8 45.90	+22 22.3	1.423	2.401	3.3	18.8
2 1	8 34.60	+23 22.8	1.412	2.392	3.2	18.8
2 11	8 23.63	+24 13.1	1.430	2.382	8.0	19.0
2 21	8 14.41	+24 48.9	1.473	2.372	12.6	19.3
3 2	8 8.05	+25 9.1	1.538	2.362	16.6	19.5

169371 2001 UX_{136} 1 28.1 7°.42 3°.1/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.31	+25 1.8	1.934	2.752	13.6	19.8
1 2	8 59.22	+25 42.5	1.859	2.753	10.4	19.6
1 12	8 52.73	+26 26.2	1.807	2.755	6.8	19.4
1 22	8 44.51	+27 7.2	1.783	2.757	3.6	19.2
2 1	8 35.55	+27 40.0	1.786	2.759	4.0	19.2
2 11	8 27.04	+28 0.4	1.818	2.762	7.3	19.4
2 21	8 20.04	+28 6.8	1.876	2.766	10.9	19.7
3 2	8 15.32	+27 59.6	1.957	2.770	14.0	19.9

189454 1999 JL_{100} 1 28.1 249°.63 4°.4/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.11	+ 2 45.0	2.325	3.069	13.8	20.6
1 2	8 58.71	+ 2 47.3	2.214	3.051	11.4	20.4
1 12	8 52.31	+ 3 6.6	2.126	3.033	8.5	20.1
1 22	8 44.37	+ 3 42.9	2.063	3.015	5.7	19.9
2 1	8 35.60	+ 4 34.7	2.029	2.996	4.5	19.8
2 11	8 26.93	+ 5 38.0	2.025	2.976	6.2	19.9
2 21	8 19.24	+ 6 47.9	2.050	2.956	9.2	20.0
3 2	8 13.30	+ 7 59.1	2.101	2.935	12.4	20.2

30967 1994 XX_{4} 1 28.1 89°.33 2°.3/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.82	+12 35.6	1.519	2.316	17.7	18.2
1 2	9 4.41	+12 21.4	1.452	2.331	13.8	17.9
1 12	8 56.13	+12 20.4	1.407	2.345	9.2	17.7
1 22	8 45.83	+12 30.7	1.386	2.360	4.5	17.5
2 1	8 34.76	+12 48.6	1.393	2.374	2.8	17.4
2 11	8 24.40	+13 9.9	1.428	2.388	7.0	17.7
2 21	8 15.98	+13 30.6	1.489	2.402	11.5	18.0
3 2	8 10.36	+13 47.7	1.573	2.416	15.4	18.2

75979 2000 CL_{125} 1 28.1 167°.19 1°.2/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.38	+20 21.6	2.312	3.112	12.2	19.6
1 2	8 59.60	+20 52.3	2.229	3.114	9.3	19.4
1 12	8 52.78	+21 28.5	2.170	3.116	5.9	19.2
1 22	8 44.50	+22 6.2	2.139	3.117	2.4	19.0
2 1	8 35.58	+22 41.1	2.138	3.118	2.2	19.0
2 11	8 26.99	+23 9.6	2.167	3.119	5.7	19.2
2 21	8 19.62	+23 29.2	2.224	3.119	9.1	19.4
3 2	8 14.16	+23 39.3	2.306	3.120	12.1	19.6

82623 2001 OB_{103} 1 28.1 113°.63 0°.5/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.29	+20 10.0	2.677	3.463	11.1	19.6
1 2	9 1.33	+20 10.0	2.602	3.480	8.5	19.5
1 12	8 53.62	+20 13.0	2.553	3.496	5.4	19.3
1 22	8 44.75	+20 16.6	2.534	3.512	2.1	19.1
2 1	8 35.48	+20 18.4	2.545	3.527	1.5	19.1
2 11	8 26.64	+20 16.3	2.589	3.543	4.8	19.3
2 21	8 18.96	+20 9.6	2.661	3.557	7.8	19.5
3 2	8 13.01	+19 58.0	2.760	3.572	10.4	19.7

260893 2005 QR_{154} 1 28.1 215°.96 5°.6/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.73	+ 2 27.6	2.169	2.910	14.8	20.9
1 2	9 0.73	+ 1 50.8	2.071	2.904	12.2	20.7
1 12	8 53.59	+ 1 29.1	1.996	2.898	9.4	20.5
1 22	8 44.86	+ 1 23.9	1.947	2.891	6.7	20.4
2 1	8 35.35	+ 1 35.1	1.925	2.884	5.6	20.3
2 11	8 26.07	+ 2 0.3	1.933	2.876	7.1	20.3
2 21	8 17.95	+ 2 35.7	1.968	2.868	9.9	20.5
3 2	8 11.77	+ 3 16.8	2.029	2.859	12.9	20.7

285000 2010 OS_{56} 1 28.1 178°.47 0°.8/28.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.43	+14 17.9	2.813	3.593	10.8	21.6
1 2	8 57.72	+14 28.2	2.722	3.594	8.4	21.4
1 12	8 51.40	+14 45.7	2.656	3.594	5.5	21.2
1 22	8 43.94	+15 8.5	2.619	3.595	2.4	21.0
2 1	8 35.97	+15 34.1	2.612	3.595	1.3	20.9
2 11	8 28.26	+15 59.7	2.637	3.595	4.4	21.2
2 21	8 21.46	+16 23.0	2.690	3.594	7.4	21.4
3 2	8 16.15	+16 42.3	2.770	3.593	10.0	21.5

503003 2015 FW_{99} 1 28.1 335°.90 4°.0/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 1.19	+ 5 16.6	2.287	3.047	13.6	21.3
1 2	8 57.14	+ 5 2.1	2.196	3.045	11.0	21.1
1 12	8 51.20	+ 5 1.8	2.127	3.043	8.1	20.9
1 22	8 43.91	+ 5 15.3	2.084	3.041	5.2	20.7
2 1	8 35.99	+ 5 41.4	2.069	3.039	4.1	20.7
2 11	8 28.32	+ 6 16.9	2.084	3.037	5.9	20.8
2 21	8 21.72	+ 6 57.9	2.127	3.035	8.8	20.9
3 2	8 16.85	+ 7 40.4	2.194	3.033	11.7	21.1

123605 2000 YU_{10} 1 28.1 306°.15 1°.4/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.33	+21 28.9	1.816	2.628	14.6	19.1
1 2	9 1.82	+21 36.1	1.718	2.610	11.3	18.9
1 12	8 54.61	+21 48.1	1.644	2.592	7.3	18.6
1 22	8 45.35	+22 0.9	1.596	2.574	3.0	18.3
2 1	8 35.06	+22 9.9	1.576	2.557	2.6	18.2
2 11	8 25.06	+22 11.5	1.585	2.540	7.0	18.4
2 21	8 16.61	+22 3.9	1.620	2.523	11.4	18.7
3 2	8 10.65	+21 47.2	1.678	2.507	15.2	18.9

41464 2000 OL_{22} 1 28.1 192°.58 9°.5/ 3.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.05	− 8 57.6	1.424	2.139	22.3	19.6
1 2	9 3.64	− 8 36.3	1.335	2.138	19.3	19.4
1 12	8 56.07	− 7 34.3	1.262	2.137	15.7	19.1
1 22	8 46.00	− 5 47.7	1.210	2.134	12.0	18.9
2 1	8 34.61	− 3 18.4	1.183	2.131	9.7	18.7
2 11	8 23.50	− 0 17.2	1.184	2.127	10.4	18.8
2 21	8 14.18	+ 2 59.2	1.212	2.122	13.8	18.9
3 2	8 7.84	+ 6 13.5	1.265	2.117	17.8	19.2

324477 2006 UU_{99} 1 28.1 3°.39 0°.8/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.44	+14 17.9	1.338	2.163	18.1	20.2
1 2	8 58.60	+14 39.0	1.265	2.162	14.0	20.0
1 12	8 52.75	+15 16.2	1.213	2.162	9.2	19.7
1 22	8 44.65	+16 5.4	1.184	2.163	3.8	19.4
2 1	8 35.53	+17 0.2	1.181	2.165	2.1	19.3
2 11	8 26.93	+17 53.2	1.204	2.168	7.5	19.6
2 21	8 20.24	+18 38.6	1.251	2.172	12.6	19.9
3 2	8 16.44	+19 12.6	1.320	2.177	16.9	20.2

100433 Hyakusyuko 1 28.1 238°.14 3°.8/30.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.01	+ 4 54.4	2.525	3.269	12.9	20.9
1 2	9 0.00	+ 4 50.1	2.411	3.251	10.5	20.7
1 12	8 53.08	+ 4 59.4	2.319	3.232	7.7	20.5
1 22	8 44.68	+ 5 22.4	2.255	3.212	5.0	20.3
2 1	8 35.49	+ 5 57.4	2.221	3.191	3.8	20.2
2 11	8 26.39	+ 6 41.6	2.218	3.169	5.7	20.3
2 21	8 18.21	+ 7 30.9	2.244	3.146	8.7	20.4
3 2	8 11.68	+ 8 21.5	2.296	3.123	11.7	20.6

279143 2009 RB_{65} 1 28.1 46°.70 1°.3/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.92	+13 11.0	1.721	2.522	15.7	21.3
1 2	8 59.72	+13 25.1	1.650	2.533	12.2	21.1
1 12	8 53.07	+13 52.2	1.602	2.544	8.0	20.9
1 22	8 44.67	+14 29.2	1.579	2.555	3.5	20.7
2 1	8 35.56	+15 11.4	1.584	2.566	2.0	20.6
2 11	8 26.96	+15 53.8	1.617	2.578	6.3	20.9
2 21	8 19.94	+16 31.8	1.677	2.590	10.4	21.2
3 2	8 15.27	+17 2.7	1.760	2.602	14.0	21.4

76731 2000 JH_{46} 1 28.1 70°.35 4°.7/24.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.44	+29 37.5	2.152	2.965	12.6	19.0
1 2	9 0.67	+30 45.8	2.088	2.976	9.7	18.8
1 12	8 53.59	+31 53.7	2.049	2.988	6.8	18.6
1 22	8 44.85	+32 54.3	2.037	2.999	4.8	18.5
2 1	8 35.44	+33 41.4	2.055	3.011	5.5	18.6
2 11	8 26.51	+34 11.2	2.100	3.023	8.0	18.8
2 21	8 19.06	+34 22.8	2.172	3.034	10.8	19.0
3 2	8 13.83	+34 17.8	2.267	3.046	13.4	19.2

256946 2008 EJ_{48} 1 28.1 54°.43 0°.1/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.04	+16 35.6	1.578	2.390	16.5	20.4
1 2	9 1.51	+16 57.1	1.514	2.404	12.6	20.2
1 12	8 54.28	+17 29.5	1.473	2.420	8.0	19.9
1 22	8 45.14	+18 8.0	1.456	2.435	3.1	19.7
2 1	8 35.28	+18 47.3	1.468	2.451	2.0	19.6
2 11	8 26.08	+19 21.9	1.507	2.467	6.8	20.0
2 21	8 18.69	+19 48.3	1.573	2.483	11.2	20.3
3 2	8 13.93	+20 5.0	1.661	2.499	14.9	20.5

287785 2003 SX_{117} 1 28.1 100°.14 0°.4/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.54	+17 32.8	1.765	2.565	15.5	21.6
1 2	9 3.87	+17 58.5	1.701	2.585	11.8	21.4
1 12	8 55.63	+18 32.9	1.660	2.605	7.5	21.2
1 22	8 45.63	+19 11.4	1.646	2.625	2.9	21.0
2 1	8 34.99	+19 48.7	1.661	2.644	2.0	20.9
2 11	8 25.00	+20 20.0	1.706	2.662	6.5	21.3
2 21	8 16.76	+20 42.7	1.777	2.681	10.6	21.6
3 2	8 11.04	+20 55.8	1.873	2.698	14.0	21.8

277538 2005 YB_{32} 1 28.1 63°.85 0°.4/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.26	+18 9.9	1.774	2.579	15.2	21.1
1 2	9 2.09	+18 24.1	1.713	2.600	11.5	21.0
1 12	8 54.46	+18 45.9	1.674	2.621	7.3	20.7
1 22	8 45.16	+19 11.3	1.662	2.641	2.8	20.5
2 1	8 35.29	+19 35.7	1.679	2.662	1.9	20.5
2 11	8 26.09	+19 55.2	1.725	2.683	6.3	20.8
2 21	8 18.57	+20 7.5	1.797	2.704	10.3	21.1
3 2	8 13.47	+20 11.7	1.894	2.724	13.7	21.3

52552 1997 AD_{17} 1 28.1 68°.88 0°.8/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.00	+17 32.4	2.286	3.086	12.4	19.1
1 2	8 57.77	+18 23.9	2.212	3.097	9.4	18.9
1 12	8 51.60	+19 23.7	2.163	3.109	5.9	18.7
1 22	8 44.06	+20 27.3	2.142	3.121	2.3	18.5
2 1	8 35.95	+21 29.7	2.151	3.132	1.9	18.5
2 11	8 28.18	+22 26.1	2.190	3.144	5.5	18.7
2 21	8 21.59	+23 13.0	2.258	3.156	8.9	19.0
3 2	8 16.83	+23 48.9	2.350	3.168	11.8	19.2

371953 2008 FG_{34} 1 28.1 279°.45 2°.1/29.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.97	+10 56.5	1.841	2.631	15.3	21.9
1 2	8 59.95	+11 8.8	1.737	2.612	12.1	21.6
1 12	8 53.42	+11 36.2	1.656	2.593	8.3	21.3
1 22	8 44.92	+12 16.8	1.600	2.574	4.1	21.0
2 1	8 35.34	+13 6.9	1.573	2.554	2.5	20.9
2 11	8 25.91	+14 1.2	1.574	2.535	6.5	21.1
2 21	8 17.78	+14 54.4	1.603	2.515	10.9	21.3
3 2	8 11.94	+15 42.0	1.655	2.496	14.8	21.5

454280 2014 HE_{101} 1 28.1 64°.99 0°.3/28.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.31	+16 8.8	1.269	2.091	19.1	21.5
1 2	9 3.82	+16 43.4	1.212	2.107	14.6	21.3
1 12	8 56.03	+17 32.6	1.175	2.124	9.4	21.0
1 22	8 45.89	+18 29.9	1.161	2.140	3.6	20.7
2 1	8 34.86	+19 27.3	1.174	2.157	2.4	20.7
2 11	8 24.68	+20 17.1	1.214	2.175	8.0	21.1
2 21	8 16.77	+20 54.8	1.278	2.192	13.0	21.4
3 2	8 12.06	+21 18.7	1.364	2.209	17.2	21.7

354561 2004 TQ_{75} 1 28.1 184°.52 1°.0/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.10	+13 52.8	2.097	2.878	14.0	21.9
1 2	9 3.37	+14 5.5	2.007	2.879	10.9	21.7
1 12	8 55.32	+14 28.5	1.941	2.879	7.2	21.5
1 22	8 45.56	+14 59.0	1.902	2.878	3.1	21.2
2 1	8 35.02	+15 33.3	1.893	2.876	1.8	21.1
2 11	8 24.80	+16 7.3	1.915	2.873	5.8	21.4
2 21	8 15.94	+16 37.5	1.966	2.869	9.7	21.6
3 2	8 9.24	+17 1.8	2.042	2.865	13.1	21.8

431438 2007 RV 1 28.1 53°.28 1°.3/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.05	+21 48.8	2.015	2.820	13.6	20.9
1 2	9 1.77	+21 53.0	1.944	2.831	10.3	20.7
1 12	8 54.20	+22 0.6	1.896	2.843	6.6	20.5
1 22	8 45.08	+22 8.0	1.876	2.855	2.7	20.2
2 1	8 35.38	+22 11.4	1.886	2.867	2.3	20.2
2 11	8 26.25	+22 8.4	1.925	2.879	6.1	20.5
2 21	8 18.64	+21 58.1	1.991	2.891	9.8	20.7
3 2	8 13.25	+21 40.7	2.081	2.903	12.9	21.0

124212 2001 OO_{102} 1 28.1 175°.13 1°.9/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.70	+12 35.9	1.758	2.546	16.0	20.8
1 2	9 4.19	+12 32.5	1.674	2.548	12.5	20.6
1 12	8 56.02	+12 41.4	1.613	2.550	8.4	20.4
1 22	8 45.88	+13 0.3	1.577	2.551	4.0	20.1
2 1	8 34.84	+13 25.9	1.570	2.552	2.4	20.0
2 11	8 24.25	+13 53.9	1.593	2.552	6.6	20.2
2 21	8 15.29	+14 20.3	1.642	2.552	10.9	20.5
3 2	8 8.85	+14 42.3	1.716	2.551	14.7	20.7

481458 2006 XT_{27} 1 28.1 212°.20 14°.6/17.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.26	+37 45.3	1.079	1.918	20.5	20.3
1 2	9 11.03	+41 40.5	1.029	1.917	17.3	20.1
1 12	9 2.44	+45 34.3	1.001	1.916	15.0	19.9
1 22	8 48.99	+48 59.6	0.997	1.914	14.9	19.9
2 1	8 32.67	+51 31.9	1.016	1.912	16.9	20.0
2 11	8 16.79	+52 59.9	1.056	1.910	20.1	20.2
2 21	8 4.56	+53 27.6	1.113	1.907	23.3	20.4
3 2	7 58.02	+53 7.6	1.183	1.905	26.1	20.7

399328 1999 TJ_{183} 1 28.1 100°.43 1°.1/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.22	+18 39.9	1.797	2.599	15.1	21.4
1 2	9 3.62	+19 20.0	1.734	2.620	11.5	21.2
1 12	8 55.49	+20 8.3	1.695	2.641	7.3	21.0
1 22	8 45.61	+20 59.4	1.683	2.662	2.8	20.7
2 1	8 35.08	+21 47.1	1.700	2.682	2.4	20.8
2 11	8 25.18	+22 26.5	1.747	2.701	6.6	21.1
2 21	8 17.01	+22 54.7	1.821	2.720	10.6	21.3
3 2	8 11.32	+23 11.2	1.918	2.738	13.9	21.6

110819 2001 UW_{49} 1 28.1 138°.87 2°.6/25.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.05	+25 35.2	2.914	3.711	10.0	20.2
1 2	8 58.99	+26 26.6	2.839	3.722	7.6	20.1
1 12	8 52.23	+27 19.5	2.791	3.733	5.0	19.9
1 22	8 44.30	+28 9.7	2.773	3.744	2.8	19.8
2 1	8 35.87	+28 53.0	2.785	3.754	3.2	19.8
2 11	8 27.74	+29 26.3	2.829	3.763	5.6	20.0
2 21	8 20.61	+29 48.3	2.901	3.772	8.1	20.2
3 2	8 15.08	+29 59.0	2.998	3.781	10.3	20.3

119393 2001 TE_{34} 1 28.1 323°.01 2°.5/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.76	+13 8.6	1.424	2.231	18.2	19.3
1 2	9 3.32	+12 45.0	1.342	2.227	14.3	19.0
1 12	8 55.77	+12 34.0	1.282	2.223	9.7	18.7
1 22	8 45.86	+12 34.5	1.245	2.219	4.7	18.4
2 1	8 34.85	+12 43.5	1.234	2.216	3.0	18.3
2 11	8 24.33	+12 57.1	1.251	2.212	7.6	18.6
2 21	8 15.73	+13 11.4	1.292	2.209	12.5	18.8
3 2	8 10.10	+13 23.2	1.355	2.207	16.9	19.1

201607 2003 SG_{196} 1 28.1 213°.57 6°.2/ 1.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.61	− 2 25.7	2.496	3.208	13.8	20.9
1 2	8 58.11	− 2 55.7	2.397	3.203	11.7	20.7
1 12	8 51.81	− 3 9.1	2.321	3.198	9.4	20.6
1 22	8 44.19	− 3 4.2	2.269	3.192	7.3	20.4
2 1	8 35.92	− 2 41.3	2.245	3.186	6.3	20.4
2 11	8 27.84	− 2 2.5	2.250	3.180	7.1	20.4
2 21	8 20.73	− 1 11.8	2.283	3.173	9.2	20.5
3 2	8 15.23	− 0 14.1	2.341	3.166	11.6	20.7

76258 2000 EZ_{98} 1 28.1 131°.44 2°.9/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.04	+ 6 44.2	2.392	3.154	13.0	20.1
1 2	8 57.67	+ 6 57.1	2.307	3.161	10.4	19.9
1 12	8 51.50	+ 7 24.0	2.245	3.167	7.3	19.7
1 22	8 44.05	+ 8 3.4	2.209	3.173	4.3	19.5
2 1	8 36.03	+ 8 52.6	2.204	3.179	3.0	19.4
2 11	8 28.29	+ 9 47.4	2.228	3.185	5.2	19.6
2 21	8 21.61	+10 43.7	2.281	3.191	8.3	19.8
3 2	8 16.61	+11 37.5	2.361	3.196	11.1	20.0

197147 2003 UW_{258} 1 28.1 184°.27 3°.4/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.89	+28 20.6	2.849	3.646	10.3	20.4
1 2	9 0.54	+29 17.6	2.766	3.647	7.9	20.3
1 12	8 53.32	+30 14.9	2.708	3.646	5.4	20.1
1 22	8 44.76	+31 7.9	2.681	3.645	3.5	20.0
2 1	8 35.57	+31 51.7	2.684	3.644	4.0	20.0
2 11	8 26.64	+32 23.2	2.717	3.642	6.3	20.2
2 21	8 18.76	+32 41.0	2.779	3.639	8.8	20.3
3 2	8 12.59	+32 45.6	2.866	3.636	11.1	20.5

82460 2001 OB_{16} 1 28.1 118°.79 2°.6/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.21	+20 52.2	1.916	2.724	14.1	19.5
1 2	9 1.46	+22 12.4	1.845	2.735	10.7	19.3
1 12	8 54.23	+23 41.0	1.797	2.744	6.8	19.1
1 22	8 45.18	+25 10.9	1.778	2.754	3.2	18.9
2 1	8 35.31	+26 34.0	1.788	2.763	3.6	18.9
2 11	8 25.86	+27 43.8	1.828	2.772	7.3	19.2
2 21	8 17.91	+28 36.7	1.895	2.781	11.0	19.4
3 2	8 12.31	+29 11.8	1.986	2.789	14.2	19.6

347927 2003 DZ_{12} 1 28.1 311°.61 3°.4/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.05	+23 47.3	1.343	2.173	17.7	21.0
1 2	9 4.05	+24 20.5	1.261	2.162	13.7	20.7
1 12	8 56.52	+24 59.9	1.201	2.152	9.0	20.4
1 22	8 46.24	+25 38.2	1.165	2.142	4.3	20.1
2 1	8 34.61	+26 7.0	1.155	2.132	4.6	20.1
2 11	8 23.49	+26 20.3	1.170	2.123	9.4	20.3
2 21	8 14.56	+26 16.0	1.210	2.114	14.4	20.6
3 2	8 9.02	+25 55.5	1.269	2.105	18.8	20.8

90282 2003 DS_{20} 1 28.1 203°.23 0°.2/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.96	+17 22.4	2.920	3.707	10.3	20.3
1 2	8 57.39	+17 47.4	2.826	3.704	7.9	20.2
1 12	8 51.23	+18 18.3	2.757	3.700	5.0	20.0
1 22	8 43.93	+18 52.5	2.718	3.696	1.9	19.7
2 1	8 36.11	+19 27.0	2.709	3.691	1.3	19.7
2 11	8 28.49	+19 58.7	2.731	3.687	4.5	19.9
2 21	8 21.75	+20 25.5	2.783	3.682	7.4	20.1
3 2	8 16.46	+20 45.8	2.861	3.676	10.0	20.3

219467 2001 AN_{26} 1 28.1 67°.37 4°.8/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.08	+28 42.4	1.806	2.622	14.5	19.7
1 2	9 3.64	+29 46.3	1.756	2.646	11.1	19.5
1 12	8 55.54	+30 49.5	1.729	2.670	7.6	19.4
1 22	8 45.63	+31 44.1	1.729	2.694	5.0	19.3
2 1	8 35.10	+32 23.5	1.757	2.719	5.6	19.3
2 11	8 25.33	+32 43.9	1.813	2.743	8.5	19.6
2 21	8 17.43	+32 45.4	1.895	2.767	11.7	19.8
3 2	8 12.16	+32 30.3	1.999	2.790	14.5	20.0

199239 2006 AQ_{77} 1 28.1 137°.71 0°.8/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.61	+14 8.0	1.884	2.671	15.1	21.6
1 2	9 3.86	+14 29.7	1.809	2.685	11.6	21.4
1 12	8 55.66	+15 2.8	1.758	2.698	7.6	21.2
1 22	8 45.70	+15 43.6	1.733	2.710	3.2	21.0
2 1	8 35.03	+16 27.4	1.739	2.722	1.8	20.9
2 11	8 24.86	+17 9.2	1.774	2.733	6.1	21.2
2 21	8 16.27	+17 45.3	1.838	2.743	10.2	21.5
3 2	8 10.06	+18 13.4	1.926	2.752	13.6	21.7

64077 2001 SN_{279} 1 28.1 15°.89 3°.1/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.09	+23 19.0	1.243	2.078	18.6	18.7
1 2	9 4.04	+23 47.3	1.177	2.080	14.3	18.5
1 12	8 56.42	+24 21.6	1.131	2.083	9.2	18.2
1 22	8 46.14	+24 54.5	1.109	2.087	4.3	17.9
2 1	8 34.76	+25 18.0	1.112	2.091	4.3	17.9
2 11	8 24.18	+25 26.6	1.141	2.096	9.3	18.2
2 21	8 16.00	+25 19.1	1.193	2.101	14.2	18.5
3 2	8 11.27	+24 57.0	1.265	2.107	18.4	18.8

318307 2004 TF_{109} 1 28.1 105°.22 2°.1/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.76	+22 9.0	2.235	3.036	12.6	20.7
1 2	9 1.39	+22 59.4	2.170	3.056	9.5	20.5
1 12	8 53.91	+23 54.2	2.130	3.076	6.1	20.4
1 22	8 44.99	+24 48.0	2.119	3.095	2.8	20.2
2 1	8 35.51	+25 35.7	2.137	3.114	3.0	20.2
2 11	8 26.50	+26 13.2	2.186	3.132	6.2	20.5
2 21	8 18.86	+26 38.6	2.263	3.150	9.4	20.7
3 2	8 13.27	+26 51.8	2.365	3.167	12.2	20.9

331260 2011 CL_{42} 1 28.2 93°.04 3°.1/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.84	+ 8 23.7	1.987	2.764	14.8	20.9
1 2	8 59.40	+ 8 21.5	1.906	2.769	11.7	20.7
1 12	8 52.78	+ 8 33.7	1.847	2.775	8.2	20.5
1 22	8 44.59	+ 8 59.1	1.813	2.781	4.7	20.3
2 1	8 35.73	+ 9 34.9	1.809	2.786	3.2	20.2
2 11	8 27.24	+10 16.9	1.833	2.792	6.0	20.4
2 21	8 20.06	+11 0.6	1.885	2.797	9.6	20.6
3 2	8 14.94	+11 42.2	1.962	2.803	12.9	20.9

62874 2000 UV_{88} 1 28.2 268°.89 1°.8/27.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.74	+20 32.7	1.949	2.758	13.9	19.3
1 2	9 0.36	+21 15.5	1.863	2.753	10.6	19.1
1 12	8 53.57	+22 5.9	1.801	2.748	6.8	18.9
1 22	8 44.95	+22 58.6	1.766	2.744	2.8	18.6
2 1	8 35.48	+23 47.8	1.760	2.739	2.8	18.6
2 11	8 26.34	+24 28.2	1.783	2.734	6.8	18.8
2 21	8 18.62	+24 56.8	1.832	2.729	10.7	19.1
3 2	8 13.16	+25 12.5	1.906	2.724	14.1	19.3

180748 2004 LB_{16} 1 28.2 259°.67 1°.1/27.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.78	+17 20.1	2.116	2.914	13.3	20.7
1 2	9 0.39	+18 20.9	2.011	2.895	10.2	20.5
1 12	8 53.64	+19 33.5	1.930	2.875	6.6	20.2
1 22	8 45.03	+20 53.3	1.876	2.855	2.6	19.9
2 1	8 35.39	+22 13.8	1.854	2.835	2.3	19.9
2 11	8 25.83	+23 28.4	1.861	2.813	6.5	20.1
2 21	8 17.42	+24 31.9	1.897	2.792	10.5	20.3
3 2	8 11.10	+25 21.7	1.957	2.770	14.0	20.5

44518 1998 XQ_{86} 1 28.2 90°.94 2°.6/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.40	+22 50.2	2.183	2.991	12.6	18.7
1 2	8 59.77	+23 53.1	2.113	3.002	9.6	18.5
1 12	8 52.98	+25 0.9	2.068	3.014	6.1	18.4
1 22	8 44.67	+26 7.7	2.051	3.026	3.1	18.2
2 1	8 35.71	+27 7.7	2.064	3.038	3.5	18.2
2 11	8 27.14	+27 56.0	2.107	3.049	6.6	18.4
2 21	8 19.91	+28 30.2	2.177	3.061	9.9	18.7
3 2	8 14.71	+28 50.1	2.271	3.072	12.7	18.9

123351 2000 WF_{2} 1 28.2 67°.56 5°.8/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.38	+32 7.9	1.812	2.621	14.8	18.9
1 2	9 6.81	+33 9.3	1.772	2.655	11.4	18.8
1 12	8 57.47	+34 5.7	1.756	2.690	8.1	18.6
1 22	8 46.34	+34 49.2	1.766	2.724	5.9	18.6
2 1	8 34.75	+35 13.7	1.805	2.758	6.5	18.7
2 11	8 24.13	+35 16.8	1.872	2.791	9.0	18.9
2 21	8 15.61	+35 0.3	1.965	2.824	11.9	19.1
3 2	8 9.90	+34 27.9	2.080	2.857	14.5	19.4

360331 2001 TU_{192} 1 28.2 114°.15 6°.3/23.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.31	+36 0.6	2.233	3.029	12.8	21.0
1 2	9 6.61	+37 8.8	2.179	3.051	10.1	20.9
1 12	8 57.35	+38 10.6	2.151	3.071	7.7	20.8
1 22	8 46.33	+38 58.7	2.150	3.091	6.4	20.7
2 1	8 34.71	+39 27.2	2.178	3.111	7.0	20.8
2 11	8 23.77	+39 33.6	2.234	3.130	9.0	20.9
2 21	8 14.62	+39 19.3	2.316	3.148	11.4	21.1
3 2	8 8.00	+38 47.8	2.421	3.165	13.6	21.3

371173 2005 YY_{48} 1 28.2 3°.63 1°.0/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.11	+15 5.2	1.899	2.697	14.6	21.1
1 2	9 0.54	+15 5.2	1.815	2.697	11.3	20.8
1 12	8 53.61	+15 14.8	1.755	2.697	7.4	20.6
1 22	8 44.95	+15 31.3	1.720	2.697	3.2	20.3
2 1	8 35.53	+15 51.5	1.715	2.697	1.8	20.2
2 11	8 26.51	+16 11.5	1.738	2.698	6.0	20.5
2 21	8 18.93	+16 28.5	1.788	2.698	10.1	20.8
3 2	8 13.59	+16 40.3	1.862	2.699	13.6	21.0

367160 2006 VX_{33} 1 28.2 296°.51 4°.8/30.6 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.02	+ 6 8.0	1.728	2.505	16.7	21.3
1 2	9 0.00	+ 5 44.2	1.635	2.496	13.5	21.0
1 12	8 53.45	+ 5 37.5	1.564	2.487	9.9	20.8
1 22	8 44.96	+ 5 48.2	1.517	2.478	6.3	20.6
2 1	8 35.49	+ 6 15.0	1.497	2.469	4.8	20.4
2 11	8 26.30	+ 6 53.9	1.505	2.460	7.3	20.6
2 21	8 18.54	+ 7 39.7	1.538	2.452	11.2	20.8
3 2	8 13.14	+ 8 27.2	1.595	2.443	14.9	21.0

360588 2003 WF_{75} 1 28.2 138°.89 3°.0/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.71	+24 51.0	1.926	2.731	14.2	21.2
1 2	9 4.82	+25 30.1	1.854	2.742	10.8	21.0
1 12	8 56.33	+26 11.8	1.807	2.751	7.0	20.8
1 22	8 46.00	+26 50.1	1.786	2.760	3.6	20.6
2 1	8 34.92	+27 19.1	1.795	2.769	3.9	20.6
2 11	8 24.42	+27 35.0	1.834	2.777	7.4	20.9
2 21	8 15.62	+27 36.7	1.899	2.784	11.0	21.1
3 2	8 9.33	+27 25.4	1.988	2.791	14.1	21.3

2457 Rublyov 1 28.2 276°.34 0°.8/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.63	+13 23.6	1.856	2.653	14.9	16.9
1 2	8 59.59	+13 53.1	1.765	2.646	11.6	16.7
1 12	8 53.13	+14 36.2	1.697	2.639	7.6	16.4
1 22	8 44.82	+15 29.6	1.655	2.632	3.2	16.1
2 1	8 35.61	+16 28.4	1.642	2.626	1.8	16.0
2 11	8 26.67	+17 26.6	1.658	2.619	6.2	16.3
2 21	8 19.10	+18 19.2	1.701	2.612	10.5	16.5
3 2	8 13.79	+19 2.6	1.768	2.605	14.2	16.7

491657 2012 TJ_{258} 1 28.2 13°.80 2°.3/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.24	+19 59.7	1.199	2.035	19.1	21.4
1 2	9 2.75	+20 44.4	1.132	2.036	14.6	21.1
1 12	8 55.69	+21 41.3	1.085	2.038	9.4	20.8
1 22	8 45.93	+22 42.5	1.061	2.040	3.9	20.5
2 1	8 34.94	+23 38.5	1.063	2.043	3.8	20.5
2 11	8 24.65	+24 21.3	1.089	2.047	9.2	20.9
2 21	8 16.71	+24 46.6	1.139	2.051	14.4	21.2
3 2	8 12.21	+24 54.2	1.209	2.055	18.8	21.4

443889 2001 VP_{109} 1 28.2 57°.85 0°.2/28.2 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.24	+16 30.5	1.220	2.039	19.9	22.0
1 2	9 6.57	+16 44.2	1.178	2.071	15.1	21.8
1 12	8 57.60	+17 10.3	1.155	2.103	9.6	21.6
1 22	8 46.46	+17 43.1	1.157	2.136	3.7	21.3
2 1	8 34.76	+18 16.0	1.185	2.168	2.2	21.3
2 11	8 24.24	+18 43.3	1.240	2.201	7.8	21.7
2 21	8 16.24	+19 1.7	1.319	2.233	12.6	22.1
3 2	8 11.51	+19 10.5	1.420	2.265	16.6	22.4

462859 2010 VG_{23} 1 28.2 79°.14 0°.2/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.31	+15 45.3	1.726	2.529	15.6	22.0
1 2	9 1.57	+16 10.1	1.657	2.542	12.0	21.7
1 12	8 54.30	+16 45.9	1.610	2.555	7.7	21.5
1 22	8 45.23	+17 28.5	1.590	2.568	3.0	21.3
2 1	8 35.44	+18 12.6	1.598	2.581	1.8	21.2
2 11	8 26.20	+18 53.0	1.634	2.594	6.4	21.5
2 21	8 18.62	+19 25.8	1.698	2.607	10.6	21.8
3 2	8 13.47	+19 49.1	1.785	2.619	14.2	22.1

50256 2000 BJ_{26} 1 28.2 54°.05 1°.8/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.87	+18 46.5	1.206	2.037	19.3	18.6
1 2	9 3.73	+19 34.6	1.150	2.051	14.7	18.4
1 12	8 56.13	+20 35.3	1.114	2.066	9.4	18.1
1 22	8 46.03	+21 40.6	1.102	2.081	3.7	17.9
2 1	8 34.96	+22 41.1	1.116	2.097	3.3	17.9
2 11	8 24.78	+23 28.8	1.155	2.113	8.7	18.2
2 21	8 16.99	+23 59.9	1.218	2.129	13.7	18.6
3 2	8 12.56	+24 14.0	1.302	2.145	17.9	18.9

273616 2007 DL_{17} 1 28.2 169°.56 0°.7/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.85	+17 33.7	2.018	2.819	13.8	21.7
1 2	9 0.30	+18 14.0	1.935	2.820	10.5	21.5
1 12	8 53.45	+19 3.7	1.875	2.821	6.7	21.2
1 22	8 44.92	+19 58.2	1.843	2.822	2.6	21.0
2 1	8 35.62	+20 52.3	1.841	2.823	2.0	20.9
2 11	8 26.66	+21 40.6	1.868	2.824	6.2	21.2
2 21	8 19.05	+22 19.6	1.923	2.824	10.0	21.4
3 2	8 13.59	+22 47.5	2.002	2.824	13.3	21.6

452797 2006 HC_{56} 1 28.2 282°.03 4°.5/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.18	+25 11.1	1.556	2.381	16.0	20.6
1 2	9 3.13	+26 21.5	1.470	2.367	12.4	20.3
1 12	8 55.87	+27 39.4	1.405	2.353	8.3	20.1
1 22	8 46.04	+28 55.9	1.366	2.338	4.9	19.8
2 1	8 34.86	+30 1.3	1.355	2.324	5.7	19.8
2 11	8 23.98	+30 47.7	1.370	2.310	9.7	20.0
2 21	8 14.95	+31 11.9	1.410	2.296	14.0	20.2
3 2	8 8.98	+31 14.7	1.470	2.282	17.9	20.5

456326 2006 SG_{344} 1 28.2 201°.76 5°.5/25.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.82	+32 2.4	1.967	2.774	13.8	21.4
1 2	9 5.94	+32 53.9	1.889	2.771	10.9	21.2
1 12	8 57.22	+33 42.8	1.834	2.768	7.8	21.0
1 22	8 46.41	+34 21.7	1.806	2.765	5.7	20.8
2 1	8 34.70	+34 43.7	1.807	2.762	6.3	20.9
2 11	8 23.51	+34 45.3	1.837	2.758	9.0	21.0
2 21	8 14.11	+34 26.7	1.892	2.753	12.2	21.2
3 2	8 7.42	+33 51.1	1.969	2.748	15.1	21.4

369379 2009 UF_{143} 1 28.2 142°.43 0°.1/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.10	+16 23.8	2.140	2.935	13.3	22.0
1 2	9 0.28	+16 46.6	2.059	2.939	10.2	21.8
1 12	8 53.33	+17 18.0	2.001	2.944	6.6	21.5
1 22	8 44.84	+17 54.6	1.970	2.949	2.6	21.3
2 1	8 35.68	+18 32.2	1.970	2.953	1.6	21.2
2 11	8 26.90	+19 6.7	1.999	2.957	5.6	21.5
2 21	8 19.40	+19 35.1	2.057	2.961	9.3	21.7
3 2	8 13.92	+19 55.6	2.139	2.964	12.5	22.0

5325 Silver 1 28.2 252°.28 1°.7/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.74	+ 7 53.8	1.894	2.668	15.5	16.7
1 2	9 1.37	+ 9 0.8	1.784	2.650	12.3	16.4
1 12	8 54.44	+10 30.7	1.698	2.631	8.4	16.1
1 22	8 45.43	+12 20.4	1.639	2.612	4.0	15.8
2 1	8 35.23	+14 23.1	1.610	2.592	2.1	15.7
2 11	8 25.02	+16 29.3	1.613	2.572	6.5	15.9
2 21	8 16.04	+18 29.9	1.644	2.551	11.0	16.1
3 2	8 9.30	+20 17.8	1.701	2.530	15.0	16.3

126861 2002 EC_{81} 1 28.2 31°.12 0°.7/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.72	+18 54.6	1.805	2.614	14.8	20.4
1 2	9 1.15	+19 9.8	1.727	2.617	11.3	20.2
1 12	8 54.06	+19 32.5	1.673	2.620	7.2	19.9
1 22	8 45.17	+19 58.5	1.644	2.623	2.8	19.7
2 1	8 35.50	+20 23.4	1.644	2.627	2.1	19.6
2 11	8 26.31	+20 42.8	1.673	2.631	6.5	19.9
2 21	8 18.70	+20 54.4	1.728	2.635	10.6	20.2
3 2	8 13.48	+20 57.2	1.807	2.639	14.2	20.4

190296 1995 SG_{46} 1 28.2 298°.74 2°.9/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.26	+ 9 31.6	1.349	2.156	19.0	20.6
1 2	9 0.95	+ 9 44.4	1.263	2.145	15.1	20.3
1 12	8 54.49	+10 18.9	1.196	2.135	10.4	20.0
1 22	8 45.52	+11 13.1	1.152	2.125	5.4	19.7
2 1	8 35.22	+12 21.9	1.134	2.115	3.2	19.5
2 11	8 25.22	+13 37.1	1.142	2.105	7.9	19.8
2 21	8 17.06	+14 50.3	1.175	2.096	13.1	20.0
3 2	8 11.91	+15 55.0	1.229	2.087	17.8	20.3

34327 2000 QS_{203} 1 28.2 126°.32 2°.2/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.96	+22 36.0	2.037	2.843	13.5	19.3
1 2	9 1.86	+23 15.9	1.963	2.851	10.2	19.1
1 12	8 54.41	+24 0.5	1.912	2.858	6.6	18.9
1 22	8 45.28	+24 44.3	1.889	2.865	3.0	18.7
2 1	8 35.45	+25 22.0	1.895	2.872	3.1	18.7
2 11	8 26.08	+25 49.4	1.931	2.879	6.7	18.9
2 21	8 18.18	+26 4.6	1.994	2.885	10.3	19.2
3 2	8 12.52	+26 7.7	2.081	2.891	13.4	19.4

63591 2001 QF_{61} 1 28.2 54°.53 0°.8/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.54	+14 23.8	2.024	2.819	13.9	18.9
1 2	8 59.09	+14 37.7	1.954	2.834	10.7	18.7
1 12	8 52.53	+15 1.5	1.908	2.850	7.0	18.5
1 22	8 44.52	+15 32.4	1.889	2.866	2.9	18.3
2 1	8 35.95	+16 6.4	1.899	2.882	1.6	18.2
2 11	8 27.84	+16 39.5	1.938	2.898	5.5	18.5
2 21	8 21.10	+17 8.6	2.005	2.915	9.2	18.7
3 2	8 16.38	+17 31.3	2.096	2.931	12.4	19.0

108806 2001 OK_{74} 1 28.2 139°.38 5°.0/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.94	+36 26.7	2.903	3.692	10.3	20.1
1 2	9 3.55	+37 9.1	2.837	3.703	8.2	20.0
1 12	8 55.19	+37 45.8	2.796	3.715	6.2	19.9
1 22	8 45.51	+38 12.0	2.784	3.725	5.1	19.8
2 1	8 35.34	+38 23.6	2.801	3.736	5.5	19.8
2 11	8 25.65	+38 19.0	2.849	3.746	7.2	20.0
2 21	8 17.27	+37 58.8	2.923	3.755	9.3	20.1
3 2	8 10.82	+37 25.3	3.022	3.764	11.2	20.3

467048 2016 CA_{259} 1 28.2 224°.86 6°.3/ 1.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 2.20	− 2 44.4	2.426	3.140	14.1	21.5
1 2	8 57.90	− 3 8.5	2.327	3.134	12.0	21.3
1 12	8 51.75	− 3 14.8	2.249	3.127	9.6	21.2
1 22	8 44.25	− 3 1.9	2.196	3.120	7.4	21.0
2 1	8 36.08	− 2 30.0	2.170	3.113	6.3	20.9
2 11	8 28.09	− 1 41.9	2.173	3.105	7.2	21.0
2 21	8 21.07	− 0 41.8	2.204	3.097	9.3	21.1
3 2	8 15.70	+ 0 25.0	2.260	3.089	11.8	21.2

236056 2005 JK_{23} 1 28.2 204°.00 1°.4/27.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.20	+21 9.8	2.555	3.352	11.3	21.3
1 2	8 59.37	+21 40.2	2.465	3.349	8.6	21.1
1 12	8 52.66	+22 15.1	2.401	3.346	5.5	20.9
1 22	8 44.59	+22 50.8	2.365	3.343	2.3	20.6
2 1	8 35.89	+23 23.4	2.360	3.339	2.2	20.6
2 11	8 27.46	+23 49.6	2.385	3.335	5.4	20.8
2 21	8 20.11	+24 7.3	2.438	3.330	8.6	21.0
3 2	8 14.50	+24 15.9	2.517	3.326	11.4	21.2

402566 2006 RK_{7} 1 28.2 122°.71 2°.6/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.52	+ 9 53.5	1.994	2.768	14.8	21.7
1 2	9 2.12	+ 9 51.6	1.919	2.783	11.7	21.5
1 12	8 54.49	+10 2.8	1.866	2.797	8.0	21.4
1 22	8 45.30	+10 25.3	1.841	2.810	4.2	21.1
2 1	8 35.47	+10 56.1	1.844	2.823	2.8	21.1
2 11	8 26.12	+11 31.2	1.878	2.836	5.9	21.3
2 21	8 18.18	+12 6.6	1.939	2.848	9.5	21.5
3 2	8 12.39	+12 39.1	2.025	2.859	12.8	21.8

90936 Neronet 1 28.2 161°.90 10°.9/ 5.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.42	−15 42.1	2.187	2.815	17.5	21.1
1 2	9 1.29	−16 27.0	2.103	2.823	15.8	20.9
1 12	8 54.01	−16 45.2	2.035	2.830	13.9	20.8
1 22	8 45.14	−16 32.8	1.989	2.836	12.1	20.7
2 1	8 35.54	−15 48.1	1.967	2.841	11.0	20.6
2 11	8 26.24	−14 33.6	1.970	2.845	11.1	20.6
2 21	8 18.17	−12 55.6	1.999	2.848	12.2	20.7
3 2	8 12.10	−11 2.4	2.052	2.851	13.9	20.8

354863 2006 AL_{23} 1 28.2 70°.63 0°.4/28.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.11	+16 36.3	1.353	2.165	18.7	21.4
1 2	9 6.38	+16 39.0	1.300	2.189	14.3	21.2
1 12	8 57.50	+16 52.8	1.267	2.213	9.2	21.0
1 22	8 46.48	+17 13.1	1.260	2.238	3.6	20.7
2 1	8 34.80	+17 34.6	1.279	2.262	2.1	20.7
2 11	8 24.10	+17 52.5	1.326	2.286	7.4	21.0
2 21	8 15.70	+18 4.0	1.398	2.310	12.2	21.4
3 2	8 10.41	+18 8.0	1.492	2.334	16.1	21.7

322276 2011 ED_{74} 1 28.2 227°.41 3°.3/30.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.92	+ 6 17.3	2.520	3.275	12.6	21.2
1 2	8 58.39	+ 6 14.6	2.418	3.266	10.1	21.0
1 12	8 52.04	+ 6 24.8	2.339	3.257	7.3	20.8
1 22	8 44.36	+ 6 47.3	2.287	3.247	4.5	20.6
2 1	8 36.02	+ 7 20.3	2.264	3.237	3.3	20.6
2 11	8 27.85	+ 8 0.7	2.272	3.226	5.3	20.7
2 21	8 20.64	+ 8 45.0	2.309	3.215	8.3	20.8
3 2	8 15.04	+ 9 29.4	2.372	3.204	11.2	21.0

290800 2005 VE_{83} 1 28.2 117°.31 2°.8/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.07	+ 8 43.6	1.985	2.762	14.8	20.9
1 2	8 59.62	+ 8 48.9	1.902	2.767	11.7	20.7
1 12	8 52.98	+ 9 9.0	1.842	2.772	8.1	20.5
1 22	8 44.75	+ 9 42.1	1.808	2.777	4.5	20.3
2 1	8 35.81	+10 25.2	1.803	2.782	3.0	20.2
2 11	8 27.24	+11 13.5	1.827	2.786	5.9	20.4
2 21	8 19.98	+12 2.4	1.879	2.791	9.6	20.6
3 2	8 14.78	+12 47.9	1.955	2.795	12.9	20.8

297081 2010 KE_{10} 1 28.2 153°.11 0°.5/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.51	+16 0.0	2.487	3.279	11.7	20.5
1 2	8 57.37	+16 56.6	2.400	3.280	8.9	20.3
1 12	8 51.41	+18 2.7	2.337	3.282	5.7	20.1
1 22	8 44.12	+19 14.4	2.304	3.283	2.2	19.8
2 1	8 36.20	+20 26.7	2.301	3.284	1.6	19.8
2 11	8 28.50	+21 34.5	2.330	3.285	5.2	20.0
2 21	8 21.81	+22 34.1	2.387	3.285	8.5	20.3
3 2	8 16.79	+23 23.2	2.470	3.286	11.3	20.4

231485 2008 OA_{22} 1 28.2 327°.66 1°.5/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.68	+12 43.6	1.353	2.166	18.6	20.7
1 2	9 1.95	+12 59.5	1.274	2.163	14.6	20.4
1 12	8 55.05	+13 33.2	1.216	2.160	9.7	20.1
1 22	8 45.70	+14 21.1	1.181	2.157	4.3	19.8
2 1	8 35.18	+15 17.3	1.172	2.155	2.4	19.7
2 11	8 25.12	+16 14.3	1.190	2.153	7.7	20.0
2 21	8 17.01	+17 5.6	1.232	2.151	12.9	20.3
3 2	8 11.92	+17 46.8	1.296	2.149	17.4	20.5

94180 2001 AY_{35} 1 28.2 345°.47 4°.8/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.51	+28 9.0	1.901	2.719	13.8	18.9
1 2	9 1.19	+29 21.4	1.825	2.717	10.6	18.6
1 12	8 54.23	+30 36.0	1.774	2.716	7.3	18.4
1 22	8 45.30	+31 45.0	1.749	2.715	5.0	18.3
2 1	8 35.46	+32 40.9	1.753	2.714	5.7	18.3
2 11	8 26.02	+33 18.2	1.785	2.713	8.7	18.5
2 21	8 18.18	+33 35.4	1.842	2.713	12.0	18.7
3 2	8 12.83	+33 33.8	1.921	2.712	15.0	18.9

246045 2006 UU_{198} 1 28.2 83°.47 0°.5/28.4 18 R

12 23	9 9.76	+15 42.9	1.815	2.608	15.4	20.1
1 2	9 3.88	+15 54.9	1.756	2.636	11.7	19.9
1 12	8 55.60	+16 16.4	1.721	2.663	7.5	19.7
1 22	8 45.70	+16 43.4	1.713	2.690	3.0	19.5
2 1	8 35.29	+17 11.9	1.733	2.717	1.7	19.5
2 11	8 25.58	+17 37.5	1.784	2.743	6.1	19.8
2 21	8 17.57	+17 57.7	1.862	2.768	10.0	20.1
3 2	8 11.97	+18 10.9	1.964	2.793	13.3	20.4

380705 2005 KT_3 1 28.2 167°.87 4°.8/24.5 18

12 23	9 5.48	+30 51.6	2.304	3.113	12.0	20.6
1 2	9 0.73	+31 56.1	2.229	3.114	9.3	20.4
1 12	8 53.71	+32 59.8	2.178	3.114	6.7	20.3
1 22	8 45.04	+33 56.2	2.155	3.114	4.9	20.1
2 1	8 35.64	+34 39.4	2.162	3.114	5.6	20.2
2 11	8 26.59	+35 5.6	2.197	3.115	7.9	20.3
2 21	8 18.90	+35 13.8	2.258	3.115	10.7	20.5
3 2	8 13.35	+35 5.6	2.342	3.115	13.2	20.7

30886 1992 WJ_1 1 28.2 94°.89 5°.8/24.2 18

12 23	9 9.89	+31 21.1	1.976	2.785	13.7	18.0
1 2	9 4.30	+32 47.8	1.922	2.806	10.6	17.8
1 12	8 56.06	+34 12.3	1.893	2.826	7.7	17.7
1 22	8 45.95	+35 26.1	1.891	2.846	5.8	17.6
2 1	8 35.12	+36 21.8	1.918	2.866	6.6	17.7
2 11	8 24.91	+36 55.4	1.974	2.886	9.1	17.9
2 21	8 16.46	+37 6.8	2.055	2.904	11.9	18.1
3 2	8 10.59	+36 58.7	2.158	2.923	14.4	18.3

139294 2001 KM_5 1 28.2 173°.29 1°.5/27.1 18

12 23	9 7.83	+21 1.4	2.436	3.228	11.9	21.0
1 2	9 2.20	+21 41.5	2.351	3.232	9.1	20.8
1 12	8 54.51	+22 26.6	2.292	3.236	5.8	20.6
1 22	8 45.33	+23 12.5	2.261	3.238	2.5	20.4
2 1	8 35.50	+23 54.3	2.261	3.240	2.4	20.4
2 11	8 25.98	+24 28.4	2.293	3.241	5.7	20.6
2 21	8 17.66	+24 52.4	2.353	3.241	9.0	20.8
3 2	8 11.26	+25 5.9	2.438	3.240	11.9	21.0

355885 2008 WG_4 1 28.2 21°.75 3°.0/27.0 18

12 23	9 6.78	+22 41.5	1.134	1.976	19.5	20.8
1 2	9 3.24	+23 10.9	1.075	1.982	14.9	20.6
1 12	8 56.01	+23 47.5	1.036	1.989	9.6	20.3
1 22	8 46.07	+24 23.5	1.019	1.998	4.3	20.0
2 1	8 35.07	+24 50.4	1.028	2.007	4.3	20.1
2 11	8 25.00	+25 2.3	1.060	2.017	9.5	20.4
2 21	8 17.47	+24 57.8	1.116	2.028	14.5	20.7
3 2	8 13.49	+24 38.2	1.191	2.040	18.8	21.0

799 Gudula 1 28.2 81°.22 2°.0/29.4 18

12 23	9 4.57	+10 58.8	1.734	2.527	16.0	14.3
1 2	9 0.36	+11 15.6	1.653	2.529	12.5	14.1
1 12	8 53.65	+11 47.8	1.594	2.532	8.4	13.8
1 22	8 45.08	+12 32.9	1.560	2.534	4.1	13.6
2 1	8 35.66	+13 26.3	1.555	2.537	2.4	13.4
2 11	8 26.64	+14 22.2	1.578	2.539	6.4	13.7
2 21	8 19.12	+15 15.1	1.628	2.542	10.6	14.0
3 2	8 13.98	+16 1.1	1.701	2.544	14.4	14.2

200715 2001 UO_{174} 1 28.2 121°.98 3°.0/26.5 18

12 23	9 10.66	+22 56.9	1.650	2.462	15.8	21.1
1 2	9 5.19	+23 51.9	1.583	2.474	12.0	20.9
1 12	8 56.80	+24 52.8	1.539	2.486	7.8	20.7
1 22	8 46.30	+25 52.1	1.522	2.498	3.8	20.5
2 1	8 34.93	+26 42.2	1.534	2.509	4.1	20.5
2 11	8 24.21	+27 17.4	1.574	2.520	8.1	20.8
2 21	8 15.42	+27 35.9	1.639	2.530	12.1	21.0
3 2	8 9.45	+27 38.4	1.728	2.539	15.6	21.3

28324 Davidcampeau 1 28.2 49°.76 2°.9/29.7 18

12 23	9 5.37	+ 9 10.5	1.242	2.052	20.1	17.8
1 2	9 1.59	+ 9 29.6	1.185	2.069	15.8	17.6
1 12	8 54.66	+10 11.0	1.146	2.086	10.7	17.4
1 22	8 45.49	+11 11.3	1.131	2.104	5.4	17.1
2 1	8 35.45	+12 23.4	1.141	2.123	3.2	17.0
2 11	8 26.19	+13 38.3	1.178	2.142	7.6	17.4
2 21	8 19.06	+14 48.1	1.239	2.161	12.5	17.7
3 2	8 14.96	+15 47.2	1.322	2.180	16.8	18.0

151871 2003 JN_{12} 1 28.2 234°.91 0°.1/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.56	+16 5.0	2.012	2.810	13.9	20.6
1 2	9 0.13	+16 32.9	1.923	2.806	10.7	20.3
1 12	8 53.40	+17 10.9	1.858	2.802	6.9	20.1
1 22	8 44.97	+17 55.4	1.820	2.798	2.7	19.8
2 1	8 35.73	+18 41.7	1.811	2.794	1.7	19.7
2 11	8 26.79	+19 24.8	1.831	2.789	6.0	20.0
2 21	8 19.17	+20 1.1	1.879	2.785	9.9	20.2
3 2	8 13.67	+20 28.3	1.951	2.780	13.4	20.4

55203 2001 RZ_{24} 1 28.2 311°.94 0°.2/28.3 18

12 23	9 2.78	+16 31.2	2.069	2.870	13.5	19.1
1 2	8 58.75	+16 46.8	1.975	2.859	10.4	18.9
1 12	8 52.51	+17 11.2	1.904	2.849	6.7	18.7
1 22	8 44.63	+17 41.5	1.860	2.838	2.7	18.4
2 1	8 35.95	+18 13.7	1.845	2.828	1.6	18.3
2 11	8 27.53	+18 43.7	1.859	2.818	5.8	18.6
2 21	8 20.34	+19 8.4	1.900	2.808	9.7	18.8
3 2	8 15.19	+19 25.7	1.966	2.799	13.1	19.0

448146 2008 SS_{161} 1 28.2 102°.30 2°.2/27.1 16

12 23	9 12.48	+21 28.4	1.612	2.420	16.3	22.0
1 2	9 6.44	+22 11.0	1.553	2.442	12.4	21.8
1 12	8 57.49	+22 59.8	1.517	2.463	7.9	21.6
1 22	8 46.53	+23 48.0	1.507	2.484	3.4	21.4
2 1	8 34.86	+24 28.8	1.526	2.505	3.3	21.4
2 11	8 23.99	+24 57.1	1.574	2.525	7.6	21.7
2 21	8 15.15	+25 11.2	1.648	2.544	11.7	22.0
3 2	8 9.17	+25 11.9	1.745	2.562	15.2	22.3

6080 Lugmair 1 28.2 237°.77 1°.2/27.3 18

12 23	9 4.07	+21 16.2	2.569	3.366	11.2	18.2
1 2	8 59.28	+21 36.1	2.477	3.360	8.6	18.0
1 12	8 52.63	+21 59.9	2.409	3.354	5.5	17.8
1 22	8 44.62	+22 24.4	2.370	3.348	2.3	17.6
2 1	8 36.00	+22 46.0	2.362	3.342	2.1	17.5
2 11	8 27.64	+23 1.9	2.384	3.336	5.3	17.7
2 21	8 20.36	+23 10.2	2.434	3.329	8.5	17.9
3 2	8 14.79	+23 10.6	2.510	3.322	11.3	18.1

406112 2006 VR_{33} 1 28.2 59°.74 8°.6/22.7 18

12 23	9 9.82	+35 59.5	1.643	2.463	15.5	20.3
1 2	9 5.11	+37 45.6	1.587	2.471	12.5	20.1
1 12	8 57.04	+39 26.5	1.555	2.479	9.8	20.0
1 22	8 46.48	+40 50.6	1.547	2.487	8.6	19.9
2 1	8 34.85	+41 48.0	1.567	2.495	9.5	20.0
2 11	8 23.92	+42 14.0	1.611	2.504	12.0	20.2
2 21	8 15.20	+42 9.9	1.678	2.513	14.8	20.4
3 2	8 9.71	+41 40.6	1.765	2.521	17.5	20.6

431127 2006 KT_{33} 1 28.2 24°.55 5°.4/24.4 18

12 23	9 5.70	+30 38.3	2.007	2.823	13.3	21.1
1 2	9 1.24	+31 52.3	1.936	2.825	10.3	20.9
1 12	8 54.21	+33 5.9	1.889	2.827	7.4	20.8
1 22	8 45.31	+34 11.6	1.870	2.829	5.5	20.7
2 1	8 35.57	+35 2.0	1.878	2.831	6.2	20.7
2 11	8 26.27	+35 32.7	1.915	2.834	8.9	20.9
2 21	8 18.53	+35 42.8	1.977	2.836	11.8	21.1
3 2	8 13.21	+35 34.0	2.060	2.839	14.6	21.3

198899 2005 UQ_{27} 1 28.2 113°.64 2°.4/29.4 18

12 23	9 9.47	+10 58.9	1.577	2.367	17.4	21.1
1 2	9 4.18	+11 4.2	1.507	2.381	13.6	20.9
1 12	8 56.11	+11 25.2	1.459	2.395	9.2	20.6
1 22	8 46.04	+11 59.3	1.436	2.409	4.5	20.4
2 1	8 35.16	+12 41.8	1.441	2.422	2.7	20.3
2 11	8 24.90	+13 27.1	1.474	2.435	6.8	20.6
2 21	8 16.46	+14 10.1	1.534	2.447	11.3	20.9
3 2	8 10.72	+14 47.0	1.617	2.458	15.1	21.1

412731 2014 OV_{346} 1 28.2 4°.11 3°.3/29.8 18

12 23	9 4.67	+ 9 32.8	1.422	2.224	18.4	21.1
1 2	9 0.96	+ 9 27.8	1.344	2.223	14.6	20.9
1 12	8 54.30	+ 9 41.2	1.287	2.223	10.1	20.6
1 22	8 45.43	+10 11.6	1.253	2.224	5.5	20.4
2 1	8 35.52	+10 55.3	1.245	2.225	3.5	20.3
2 11	8 26.08	+11 45.9	1.263	2.226	7.5	20.5
2 21	8 18.45	+12 37.2	1.307	2.227	12.2	20.8
3 2	8 13.63	+13 23.7	1.373	2.229	16.4	21.0

7590 Aterui 1 28.2 4°.61 0°.1/28.2 18

12 23	9 3.37	+14 18.2	1.181	2.011	19.7	16.9
1 2	9 0.58	+15 5.5	1.111	2.011	15.2	16.6
1 12	8 54.38	+16 13.2	1.060	2.011	9.9	16.3
1 22	8 45.54	+17 35.3	1.032	2.012	3.9	15.9
2 1	8 35.44	+19 2.1	1.030	2.013	2.4	15.8
2 11	8 25.90	+20 22.8	1.052	2.015	8.5	16.2
2 21	8 18.53	+21 29.5	1.098	2.018	14.0	16.5
3 2	8 14.47	+22 18.2	1.165	2.021	18.7	16.8

309434 2007 UP_{14} 1 28.2 129°.76 0°.4/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.87	+15 5.0	1.922	2.712	14.8	21.9
1 2	9 3.32	+15 30.1	1.849	2.727	11.3	21.7
1 12	8 55.37	+16 5.6	1.799	2.741	7.3	21.5
1 22	8 45.72	+16 47.7	1.776	2.754	2.9	21.3
2 1	8 35.39	+17 31.6	1.784	2.767	1.7	21.2
2 11	8 25.55	+18 12.5	1.821	2.779	6.0	21.5
2 21	8 17.26	+18 46.8	1.886	2.790	10.0	21.8
3 2	8 11.26	+19 12.6	1.975	2.801	13.4	22.0

8092 1992 DC_{10} 1 28.2 121°.32 1°.8/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.72	+12 56.9	1.597	2.393	17.0	17.5
1 2	9 3.68	+12 55.2	1.521	2.400	13.2	17.3
1 12	8 55.85	+13 6.7	1.467	2.407	8.8	17.0
1 22	8 45.97	+13 28.9	1.438	2.414	4.1	16.8
2 1	8 35.22	+13 57.8	1.438	2.420	2.4	16.7
2 11	8 25.01	+14 28.5	1.465	2.426	6.8	17.0
2 21	8 16.59	+14 56.8	1.519	2.432	11.3	17.2
3 2	8 10.84	+15 19.8	1.596	2.437	15.2	17.5

209751 2005 EC_{208} 1 28.2 119°.40 4°.4/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.14	+ 2 55.1	1.868	2.623	16.4	20.3
1 2	9 0.53	+ 3 15.4	1.790	2.636	13.2	20.1
1 12	8 53.63	+ 3 57.2	1.733	2.648	9.7	19.9
1 22	8 45.07	+ 4 58.9	1.702	2.659	6.1	19.8
2 1	8 35.78	+ 6 16.6	1.699	2.670	4.4	19.7
2 11	8 26.90	+ 7 43.7	1.725	2.681	6.5	19.8
2 21	8 19.42	+ 9 13.1	1.780	2.691	10.0	20.0
3 2	8 14.11	+10 38.2	1.859	2.701	13.4	20.3

110186 2001 SC_{178} 1 28.2 79°.47 1°.3/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.27	+19 53.7	1.795	2.601	15.0	20.1
1 2	9 2.96	+20 26.5	1.734	2.623	11.3	19.9
1 12	8 55.15	+21 6.0	1.697	2.644	7.2	19.7
1 22	8 45.63	+21 47.1	1.686	2.664	2.9	19.5
2 1	8 35.49	+22 24.1	1.704	2.685	2.5	19.5
2 11	8 26.01	+22 52.7	1.752	2.706	6.6	19.8
2 21	8 18.23	+23 10.5	1.826	2.726	10.5	20.1
3 2	8 12.90	+23 17.4	1.923	2.746	13.8	20.3

207367 2005 LR_{2} 1 28.2 252°.15 1°.4/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.46	+10 58.7	2.472	3.250	12.2	21.2
1 2	8 57.39	+11 27.3	2.373	3.241	9.6	21.0
1 12	8 51.48	+12 7.8	2.297	3.232	6.4	20.7
1 22	8 44.23	+12 58.1	2.249	3.223	3.1	20.5
2 1	8 36.30	+13 54.7	2.232	3.214	1.7	20.4
2 11	8 28.54	+14 53.2	2.245	3.204	4.9	20.6
2 21	8 21.75	+15 49.6	2.286	3.195	8.3	20.8
3 2	8 16.59	+16 40.4	2.354	3.185	11.3	21.0

371704 2007 EC_{21} 1 28.2 105°.52 2°.9/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.72	+24 50.2	1.947	2.757	13.8	21.3
1 2	9 2.62	+25 25.0	1.872	2.761	10.6	21.1
1 12	8 55.02	+26 2.5	1.820	2.766	6.9	20.9
1 22	8 45.62	+26 37.1	1.796	2.770	3.5	20.7
2 1	8 35.47	+27 3.3	1.800	2.774	3.8	20.7
2 11	8 25.83	+27 17.3	1.833	2.779	7.2	21.0
2 21	8 17.76	+27 17.9	1.894	2.783	10.8	21.2
3 2	8 12.09	+27 5.9	1.977	2.787	14.0	21.4

204855 2007 RT_{140} 1 28.2 176°.04 0°.4/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.71	+15 27.0	2.020	2.809	14.2	21.2
1 2	9 3.23	+15 48.4	1.934	2.811	10.9	21.0
1 12	8 55.38	+16 19.7	1.872	2.813	7.1	20.7
1 22	8 45.78	+16 57.4	1.837	2.815	2.9	20.5
2 1	8 35.38	+17 37.1	1.833	2.816	1.6	20.4
2 11	8 25.35	+18 14.2	1.858	2.816	6.0	20.7
2 21	8 16.73	+18 45.3	1.911	2.815	9.9	20.9
3 2	8 10.33	+19 8.6	1.989	2.813	13.4	21.1

275741 2001 HV_{6} 1 28.2 177°.49 4°.5/24.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.05	+33 34.3	3.056	3.849	9.7	22.1
1 2	9 1.43	+34 35.1	2.979	3.851	7.7	21.9
1 12	8 53.97	+35 33.3	2.928	3.853	5.7	21.8
1 22	8 45.17	+36 23.7	2.906	3.854	4.5	21.7
2 1	8 35.77	+37 1.8	2.914	3.855	5.0	21.8
2 11	8 26.64	+37 25.0	2.953	3.854	6.8	21.9
2 21	8 18.57	+37 32.8	3.019	3.854	8.9	22.0
3 2	8 12.22	+37 26.2	3.109	3.853	10.9	22.2

85067 4333 $T\text{-}_{1}$ 1 28.2 302°.85 0°.5/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.48	+17 58.5	2.191	2.993	12.8	19.7
1 2	8 58.45	+18 25.7	2.096	2.981	9.8	19.5
1 12	8 52.31	+19 0.8	2.024	2.970	6.3	19.3
1 22	8 44.59	+19 40.5	1.981	2.959	2.4	19.0
2 1	8 36.10	+20 20.4	1.966	2.948	1.8	18.9
2 11	8 27.84	+20 56.1	1.981	2.938	5.7	19.2
2 21	8 20.74	+21 24.7	2.024	2.927	9.5	19.4
3 2	8 15.58	+21 44.3	2.091	2.917	12.7	19.6

53804 2000 ES_{127} 1 28.2 239°.35 2°.4/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.08	+21 10.6	1.691	2.502	15.6	19.7
1 2	9 4.27	+22 0.0	1.600	2.491	12.0	19.4
1 12	8 56.48	+22 58.6	1.531	2.479	7.7	19.1
1 22	8 46.34	+23 59.9	1.489	2.466	3.4	18.9
2 1	8 34.99	+24 56.2	1.476	2.454	3.6	18.8
2 11	8 23.91	+25 40.7	1.490	2.440	8.0	19.1
2 21	8 14.52	+26 9.8	1.531	2.427	12.5	19.3
3 2	8 7.90	+26 22.9	1.594	2.412	16.4	19.5

466252 2013 GA_{72} 1 28.2 213°.49 2°.6/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.16	+10 38.5	2.007	2.784	14.7	21.7
1 2	9 2.09	+10 30.0	1.913	2.779	11.6	21.4
1 12	8 54.68	+10 33.5	1.841	2.773	8.0	21.2
1 22	8 45.53	+10 47.9	1.797	2.767	4.2	21.0
2 1	8 35.53	+11 10.7	1.781	2.760	2.8	20.8
2 11	8 25.81	+11 38.3	1.795	2.753	6.1	21.0
2 21	8 17.42	+12 7.1	1.837	2.746	9.9	21.3
3 2	8 11.17	+12 33.8	1.903	2.738	13.4	21.5

305679 2009 BP_{106} 1 28.2 304°.47 0°.8/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.79	+17 17.7	1.485	2.304	16.9	21.1
1 2	9 1.24	+17 53.0	1.396	2.291	13.1	20.8
1 12	8 54.65	+18 41.9	1.329	2.278	8.5	20.5
1 22	8 45.66	+19 39.1	1.287	2.266	3.3	20.1
2 1	8 35.42	+20 37.7	1.271	2.254	2.5	20.1
2 11	8 25.47	+21 30.0	1.283	2.242	7.8	20.3
2 21	8 17.28	+22 10.9	1.319	2.230	12.9	20.6
3 2	8 11.97	+22 37.7	1.377	2.219	17.2	20.8

35557 1998 FO_{122} 1 28.2 343°.39 2°.7/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.07	+24 37.3	2.044	2.858	13.1	18.4
1 2	8 59.81	+25 9.4	1.961	2.853	10.0	18.2
1 12	8 53.23	+25 44.5	1.902	2.849	6.5	18.0
1 22	8 44.95	+26 17.6	1.870	2.845	3.3	17.8
2 1	8 35.91	+26 43.5	1.866	2.841	3.6	17.8
2 11	8 27.25	+26 58.6	1.891	2.838	6.9	18.0
2 21	8 19.99	+27 1.2	1.943	2.835	10.4	18.2
3 2	8 14.92	+26 51.7	2.018	2.832	13.6	18.4

108512 2001 KX_{73} 1 28.2 136°.76 3°.9/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.66	+ 6 50.4	1.790	2.557	16.6	20.3
1 2	9 4.04	+ 6 42.4	1.715	2.570	13.2	20.1
1 12	8 55.91	+ 6 51.2	1.660	2.583	9.4	19.9
1 22	8 45.98	+ 7 15.8	1.632	2.595	5.6	19.7
2 1	8 35.30	+ 7 53.4	1.632	2.607	4.0	19.6
2 11	8 25.11	+ 8 39.2	1.661	2.617	6.7	19.8
2 21	8 16.52	+ 9 28.0	1.718	2.627	10.5	20.0
3 2	8 10.34	+10 15.0	1.799	2.636	14.0	20.3

70849 1999 VP_{112} 1 28.2 52°.30 1°.4/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.82	+20 16.7	1.956	2.764	13.8	19.2
1 2	9 0.36	+20 50.4	1.879	2.769	10.5	18.9
1 12	8 53.56	+21 30.8	1.826	2.773	6.7	18.7
1 22	8 45.07	+22 13.1	1.800	2.778	2.7	18.5
2 1	8 35.87	+22 52.1	1.803	2.783	2.5	18.5
2 11	8 27.08	+23 23.4	1.835	2.789	6.4	18.7
2 21	8 19.75	+23 44.3	1.894	2.794	10.2	19.0
3 2	8 14.63	+23 54.1	1.977	2.799	13.5	19.2

233989 1995 VY_{6} 1 28.2 28°.68 0°.5/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.10	+15 33.3	1.175	2.004	19.9	21.1
1 2	9 2.54	+15 46.6	1.112	2.011	15.3	20.8
1 12	8 55.54	+16 15.3	1.068	2.018	10.0	20.5
1 22	8 45.97	+16 54.6	1.047	2.025	4.0	20.2
2 1	8 35.33	+17 37.6	1.050	2.034	2.3	20.1
2 11	8 25.46	+18 17.0	1.079	2.043	8.2	20.5
2 21	8 17.89	+18 47.7	1.132	2.053	13.6	20.8
3 2	8 13.65	+19 7.1	1.205	2.063	18.1	21.1

94953 2001 YQ_{88} 1 28.2 0°.43 0°.2/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.12	+18 35.3	1.382	2.201	18.0	19.4
1 2	9 4.53	+18 28.0	1.306	2.200	13.9	19.2
1 12	8 56.68	+18 28.9	1.251	2.199	9.0	18.9
1 22	8 46.40	+18 34.4	1.220	2.199	3.5	18.6
2 1	8 35.06	+18 39.8	1.216	2.199	2.2	18.5
2 11	8 24.35	+18 41.0	1.239	2.200	7.8	18.8
2 21	8 15.74	+18 35.9	1.286	2.201	12.8	19.1
3 2	8 10.26	+18 23.9	1.355	2.202	17.1	19.4

252613 2001 XE_{100} 1 28.2 10°.12 4°.9/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.23	+23 50.9	1.325	2.167	17.2	19.5
1 2	8 58.78	+25 28.5	1.262	2.170	13.1	19.3
1 12	8 53.13	+27 15.4	1.222	2.174	8.7	19.0
1 22	8 45.06	+29 0.6	1.206	2.179	5.2	18.8
2 1	8 35.88	+30 32.3	1.216	2.185	6.2	18.9
2 11	8 27.29	+31 41.2	1.251	2.193	10.2	19.1
2 21	8 20.76	+32 23.7	1.310	2.201	14.5	19.4
3 2	8 17.31	+32 40.6	1.388	2.211	18.1	19.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
211902 2004 KO_{14}			1 28.2 317°.09		3°.1/30.5 18	
	h m	° ′			°	m
12 23	8 59.63	+ 6 31.6	2.073	2.848	14.3	20.2
1 2	8 56.40	+ 6 54.0	1.969	2.831	11.5	19.9
1 12	8 51.08	+ 7 34.2	1.888	2.814	8.2	19.7
1 22	8 44.16	+ 8 30.9	1.832	2.798	4.7	19.5
2 1	8 36.40	+ 9 40.8	1.804	2.782	3.2	19.3
2 11	8 28.78	+10 58.5	1.806	2.766	5.8	19.5
2 21	8 22.23	+12 17.8	1.835	2.751	9.5	19.6
3 2	8 17.56	+13 33.3	1.890	2.736	13.0	19.8
331761 2002 XS_{32}			1 28.2 65°.42		4°.5/30.7 18	
12 23	9 6.68	+ 5 49.5	2.145	2.901	14.5	19.8
1 2	9 1.24	+ 5 7.1	2.078	2.924	11.7	19.6
1 12	8 53.84	+ 4 38.0	2.034	2.947	8.6	19.5
1 22	8 45.11	+ 4 22.7	2.017	2.971	5.7	19.3
2 1	8 35.91	+ 4 20.4	2.028	2.994	4.5	19.3
2 11	8 27.22	+ 4 28.7	2.069	3.017	6.3	19.5
2 21	8 19.85	+ 4 44.5	2.138	3.041	9.1	19.7
3 2	8 14.43	+ 5 4.3	2.231	3.064	11.8	19.9
31901 Amitscheer			1 28.2 145°.17		2°.6/29.8 18	
12 23	9 7.38	+ 8 54.2	1.752	2.532	16.4	19.0
1 2	9 2.47	+ 9 13.8	1.673	2.540	12.9	18.8
1 12	8 55.01	+ 9 50.7	1.616	2.548	8.9	18.6
1 22	8 45.68	+10 42.5	1.584	2.555	4.6	18.3
2 1	8 35.52	+11 44.4	1.581	2.562	2.8	18.2
2 11	8 25.78	+12 50.2	1.608	2.568	6.4	18.5
2 21	8 17.59	+13 53.8	1.661	2.573	10.6	18.7
3 2	8 11.82	+14 50.7	1.739	2.578	14.3	19.0
136452 2005 EQ_{166}			1 28.2 242°.64		0°.1/28.2 18	
12 23	9 7.29	+16 51.3	1.765	2.568	15.3	20.8
1 2	9 2.58	+17 6.4	1.677	2.562	11.9	20.6
1 12	8 55.20	+17 31.4	1.611	2.555	7.7	20.3
1 22	8 45.80	+18 2.5	1.571	2.549	3.0	20.0
2 1	8 35.43	+18 35.1	1.559	2.542	1.9	19.9
2 11	8 25.41	+19 4.1	1.577	2.535	6.7	20.2
2 21	8 16.95	+19 26.4	1.620	2.528	11.1	20.5
3 2	8 10.99	+19 39.9	1.688	2.521	14.9	20.7
462738 2010 BV_{98}			1 28.2 59°.94		0°.8/28.9 18	
12 23	9 1.55	+11 36.4	2.200	2.986	13.3	20.6
1 2	8 57.57	+12 30.1	2.121	2.995	10.2	20.4
1 12	8 51.65	+13 37.5	2.066	3.005	6.7	20.2
1 22	8 44.32	+14 54.6	2.039	3.015	2.9	19.9
2 1	8 36.37	+16 16.1	2.042	3.026	1.5	19.9
2 11	8 28.73	+17 36.0	2.076	3.036	5.2	20.1
2 21	8 22.23	+18 49.4	2.138	3.046	8.8	20.4
3 2	8 17.57	+19 52.7	2.226	3.057	11.9	20.6
56865 2000 QY_{91}			1 28.2 66°.26		7°.3/ 3.9 18	
12 23	9 0.05	− 8 3.1	2.445	3.130	14.7	19.2
1 2	8 56.23	− 8 13.9	2.358	3.136	12.7	19.1
1 12	8 50.69	− 8 3.0	2.292	3.143	10.5	19.0
1 22	8 43.92	− 7 29.2	2.249	3.149	8.5	18.8
2 1	8 36.61	− 6 33.1	2.232	3.156	7.4	18.8
2 11	8 29.55	− 5 18.2	2.243	3.162	7.7	18.8
2 21	8 23.48	− 3 50.0	2.282	3.169	9.3	18.9
3 2	8 19.00	− 2 14.8	2.346	3.175	11.4	19.1
428463 2007 UA_{42}			1 28.2 163°.87		3°.7/25.5 17	
12 23	9 6.63	+29 36.6	2.606	3.406	11.0	21.6
1 2	9 1.28	+30 17.8	2.528	3.410	8.5	21.5
1 12	8 53.94	+30 57.8	2.475	3.412	5.9	21.3
1 22	8 45.19	+31 31.9	2.451	3.415	3.9	21.2
2 1	8 35.85	+31 55.7	2.457	3.417	4.3	21.2
2 11	8 26.87	+32 6.4	2.492	3.419	6.6	21.4
2 21	8 19.12	+32 3.4	2.555	3.421	9.3	21.5
3 2	8 13.25	+31 48.0	2.643	3.422	11.7	21.7
95780 2003 EH_{60}			1 28.2 263°.90		0°.8/28.7 18	
12 23	9 3.83	+12 57.7	2.081	2.870	13.8	20.0
1 2	8 59.67	+13 35.0	1.977	2.853	10.8	19.7
1 12	8 53.23	+14 25.9	1.896	2.836	7.1	19.5
1 22	8 45.03	+15 27.5	1.842	2.819	3.0	19.2
2 1	8 35.89	+16 34.9	1.818	2.801	1.6	19.0
2 11	8 26.86	+17 42.2	1.824	2.783	5.9	19.3
2 21	8 18.98	+18 44.4	1.858	2.765	9.9	19.5
3 2	8 13.13	+19 37.6	1.917	2.747	13.5	19.7
286239 2001 UR_{193}			1 28.2 286°.07		7°.6/24.1 18	
12 23	9 12.34	+36 22.0	1.787	2.598	14.9	20.1
1 2	9 6.95	+37 21.2	1.706	2.585	12.0	19.8
1 12	8 58.26	+38 14.8	1.647	2.572	9.3	19.7
1 22	8 47.05	+38 53.5	1.613	2.559	7.7	19.5
2 1	8 34.68	+39 9.0	1.607	2.546	8.4	19.5
2 11	8 22.85	+38 57.4	1.627	2.533	11.0	19.7
2 21	8 13.10	+38 20.0	1.671	2.521	14.1	19.8
3 2	8 6.48	+37 21.5	1.735	2.508	17.1	20.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
203700 2002 OG_{31}			1 28.2 104°.92		0°.3/28.0 18	
	h m	° ′			°	m
12 23	9 5.21	+17 23.6	2.397	3.187	12.2	21.4
1 2	9 0.10	+17 49.2	2.326	3.205	9.2	21.3
1 12	8 53.12	+18 21.5	2.279	3.222	5.9	21.1
1 22	8 44.85	+18 57.1	2.261	3.239	2.3	20.9
2 1	8 36.08	+19 32.2	2.273	3.256	1.5	20.8
2 11	8 27.73	+20 3.4	2.316	3.272	5.1	21.1
2 21	8 20.56	+20 28.3	2.388	3.288	8.4	21.4
3 2	8 15.21	+20 45.6	2.485	3.304	11.2	21.6
134784 2000 DO_{93}			1 28.2 33°.84		2°.9/26.9 18	
12 23	9 8.02	+23 23.4	1.365	2.194	17.6	19.3
1 2	9 3.63	+23 50.3	1.305	2.205	13.4	19.1
1 12	8 56.02	+24 22.0	1.265	2.216	8.6	18.8
1 22	8 46.10	+24 51.7	1.250	2.228	4.0	18.6
2 1	8 35.33	+25 12.6	1.262	2.240	4.0	18.6
2 11	8 25.39	+25 20.2	1.300	2.253	8.5	18.9
2 21	8 17.67	+25 13.3	1.362	2.267	13.0	19.2
3 2	8 13.06	+24 53.3	1.445	2.281	16.9	19.5
81559 2000 HO_{29}			1 28.2 105°.65		5°.9/24.1 18	
12 23	9 8.30	+29 50.8	1.823	2.639	14.4	18.7
1 2	9 3.48	+31 27.2	1.758	2.648	11.2	18.5
1 12	8 55.82	+33 4.6	1.718	2.656	8.0	18.4
1 22	8 46.05	+34 33.4	1.705	2.664	6.0	18.3
2 1	8 35.32	+35 44.5	1.720	2.672	6.8	18.3
2 11	8 25.08	+36 32.2	1.763	2.679	9.7	18.5
2 21	8 16.63	+36 55.5	1.831	2.687	12.8	18.7
3 2	8 10.89	+36 56.6	1.920	2.694	15.6	18.9
18311 1981 EV_{16}			1 28.2 191°.04		0°.3/28.1 18	
12 23	9 10.45	+18 4.8	1.934	2.728	14.5	20.1
1 2	9 4.72	+18 15.8	1.846	2.727	11.2	19.9
1 12	8 56.43	+18 34.1	1.782	2.725	7.2	19.7
1 22	8 46.25	+18 56.2	1.745	2.723	2.8	19.4
2 1	8 35.20	+19 17.8	1.738	2.720	1.8	19.3
2 11	8 24.56	+19 34.9	1.760	2.717	6.3	19.6
2 21	8 15.44	+19 45.2	1.810	2.713	10.5	19.8
3 2	8 8.72	+19 47.8	1.885	2.708	14.0	20.0
323870 2005 SN_{162}			1 28.2 221°.52		0°.1/28.2 18	
12 23	9 6.11	+17 4.7	1.934	2.734	14.3	21.8
1 2	9 1.41	+17 22.3	1.847	2.731	11.0	21.6
1 12	8 54.31	+17 48.7	1.784	2.729	7.1	21.4
1 22	8 45.42	+18 20.4	1.748	2.726	2.8	21.1
2 1	8 35.72	+18 53.0	1.740	2.723	1.7	21.0
2 11	8 26.37	+19 22.0	1.762	2.720	6.2	21.3
2 21	8 18.44	+19 44.5	1.811	2.717	10.2	21.5
3 2	8 12.77	+19 58.7	1.884	2.714	13.8	21.7
162627 2000 SR_{135}			1 28.2 25°.85		2°.2/29.1 18	
12 23	9 7.70	+13 31.2	1.398	2.207	18.3	19.5
1 2	9 3.30	+13 11.4	1.324	2.210	14.3	19.2
1 12	8 55.82	+13 4.6	1.271	2.214	9.6	19.0
1 22	8 46.07	+13 9.0	1.242	2.218	4.6	18.7
2 1	8 35.34	+13 21.3	1.240	2.222	2.8	18.6
2 11	8 25.21	+13 37.0	1.264	2.226	7.4	18.9
2 21	8 17.07	+13 52.4	1.313	2.231	12.3	19.2
3 2	8 11.87	+14 4.4	1.384	2.237	16.5	19.4
440174 2003 YF_{136}			1 28.2 91°.60		1°.7/29.0 17	
12 23	9 14.68	+12 51.4	1.448	2.240	18.6	22.0
1 2	9 8.12	+12 57.1	1.394	2.271	14.4	21.8
1 12	8 58.57	+13 17.2	1.362	2.301	9.5	21.6
1 22	8 47.01	+13 47.8	1.356	2.331	4.2	21.4
2 1	8 34.85	+14 23.7	1.377	2.360	2.4	21.3
2 11	8 23.64	+14 59.2	1.427	2.387	7.1	21.7
2 21	8 14.64	+15 30.2	1.504	2.414	11.6	22.0
3 2	8 8.63	+15 54.3	1.603	2.440	15.4	22.3
173771 2001 RF_{152}			1 28.2 192°.92		2°.4/26.1 17	
12 23	9 4.52	+25 13.0	2.979	3.775	9.9	21.3
1 2	8 59.46	+25 57.0	2.890	3.772	7.5	21.1
1 12	8 52.70	+26 43.0	2.828	3.770	5.0	21.0
1 22	8 44.72	+27 26.9	2.794	3.767	2.7	20.8
2 1	8 36.17	+28 4.9	2.792	3.763	3.0	20.8
2 11	8 27.84	+28 33.8	2.821	3.759	5.4	21.0
2 21	8 20.45	+28 52.3	2.879	3.754	8.0	21.1
3 2	8 14.61	+29 0.0	2.963	3.749	10.4	21.3
5696 Ibsen			1 28.2 177°.02		1°.1/27.3 18	
12 23	9 3.58	+21 5.6	2.918	3.710	10.2	18.1
1 2	8 58.70	+21 32.4	2.830	3.711	7.7	18.0
1 12	8 52.18	+22 2.8	2.768	3.712	4.9	17.8
1 22	8 44.50	+22 33.8	2.736	3.713	2.0	17.6
2 1	8 36.32	+23 2.1	2.734	3.713	1.9	17.6
2 11	8 28.39	+23 25.0	2.763	3.714	4.8	17.8
2 21	8 21.40	+23 40.7	2.822	3.713	7.6	17.9
3 2	8 15.91	+23 48.7	2.907	3.713	10.1	18.1

136681 1995 SE_{29} 1 28.2 106°.03 0°.4/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.23	+17 57.4	2.567	3.357	11.5	21.4
1 2	8 59.27	+18 20.5	2.493	3.373	8.7	21.2
1 12	8 52.55	+18 49.3	2.445	3.388	5.5	21.0
1 22	8 44.64	+19 20.8	2.425	3.403	2.1	20.8
2 1	8 36.25	+19 51.7	2.435	3.418	1.5	20.8
2 11	8 28.24	+20 18.7	2.477	3.432	4.8	21.1
2 21	8 21.32	+20 39.9	2.547	3.446	7.9	21.3
3 2	8 16.07	+20 54.0	2.643	3.460	10.6	21.5

348472 2005 SN_{92} 1 28.2 232°.17 3°.3/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.89	+ 8 52.7	1.675	2.457	16.9	21.5
1 2	9 3.21	+ 8 51.2	1.580	2.447	13.5	21.2
1 12	8 55.74	+ 9 6.6	1.506	2.437	9.5	20.9
1 22	8 46.09	+ 9 37.9	1.457	2.426	5.2	20.7
2 1	8 35.30	+10 22.0	1.436	2.415	3.5	20.5
2 11	8 24.74	+11 13.4	1.443	2.403	7.1	20.7
2 21	8 15.72	+12 6.3	1.477	2.390	11.6	20.9
3 2	8 9.27	+12 55.8	1.534	2.377	15.7	21.2

15062 1999 AL_{2} 1 28.2 63°.53 2°.0/27.1 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.46	+23 34.0	2.068	2.874	13.3	17.8
1 2	9 2.18	+23 48.1	1.996	2.884	10.1	17.7
1 12	8 54.62	+24 4.5	1.948	2.894	6.5	17.4
1 22	8 45.49	+24 19.1	1.927	2.904	2.9	17.2
2 1	8 35.76	+24 27.7	1.935	2.914	2.8	17.3
2 11	8 26.56	+24 27.7	1.973	2.924	6.3	17.5
2 21	8 18.85	+24 18.3	2.039	2.934	9.8	17.7
3 2	8 13.36	+24 0.0	2.128	2.944	12.9	17.9

354531 2004 RT_{180} 1 28.2 150°.43 2°.9/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.17	+ 9 58.7	1.802	2.581	16.0	21.5
1 2	9 3.75	+ 9 50.0	1.722	2.588	12.7	21.3
1 12	8 55.80	+ 9 55.1	1.664	2.595	8.7	21.1
1 22	8 46.01	+10 12.8	1.632	2.601	4.7	20.8
2 1	8 35.42	+10 40.0	1.628	2.607	3.1	20.8
2 11	8 25.28	+11 12.7	1.654	2.612	6.5	21.0
2 21	8 16.70	+11 46.4	1.707	2.617	10.5	21.2
3 2	8 10.53	+12 17.6	1.784	2.621	14.1	21.5

242780 2005 YB_{110} 1 28.2 68°.50 0°.1/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.86	+15 9.7	1.823	2.624	15.0	20.4
1 2	9 0.41	+15 54.3	1.757	2.642	11.4	20.2
1 12	8 53.59	+16 50.7	1.715	2.660	7.3	20.0
1 22	8 45.11	+17 54.0	1.699	2.677	2.8	19.8
2 1	8 35.98	+18 58.1	1.712	2.695	1.7	19.7
2 11	8 27.36	+19 57.1	1.755	2.713	6.2	20.1
2 21	8 20.26	+20 46.7	1.824	2.731	10.1	20.3
3 2	8 15.44	+21 24.7	1.918	2.749	13.5	20.6

201872 2003 YE_{161} 1 28.2 36°.97 4°.3/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.21	+ 5 0.7	2.050	2.814	14.8	20.2
1 2	8 58.18	+ 4 50.1	1.967	2.818	12.0	20.0
1 12	8 52.10	+ 4 55.7	1.905	2.822	8.8	19.8
1 22	8 44.54	+ 5 17.1	1.869	2.827	5.7	19.7
2 1	8 36.31	+ 5 52.4	1.861	2.831	4.3	19.6
2 11	8 28.41	+ 6 37.6	1.882	2.836	6.2	19.7
2 21	8 21.72	+ 7 28.0	1.929	2.841	9.4	19.9
3 2	8 16.96	+ 8 18.9	2.002	2.846	12.5	20.1

331632 2002 GE_{117} 1 28.2 278°.54 1°.2/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.93	+18 6.1	1.613	2.427	16.1	21.0
1 2	9 1.97	+18 49.9	1.521	2.413	12.4	20.8
1 12	8 55.09	+19 46.3	1.450	2.399	8.0	20.5
1 22	8 45.88	+20 49.8	1.405	2.384	3.2	20.1
2 1	8 35.44	+21 53.1	1.388	2.370	2.7	20.1
2 11	8 25.24	+22 48.9	1.399	2.356	7.7	20.3
2 21	8 16.67	+23 32.2	1.436	2.341	12.4	20.6
3 2	8 10.82	+24 0.6	1.494	2.327	16.6	20.8

350342 2012 UT_{103} 1 28.2 170°.16 2°.0/26.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.62	+23 31.2	2.827	3.624	10.3	21.4
1 2	8 58.82	+24 12.5	2.742	3.626	7.8	21.2
1 12	8 52.31	+24 56.7	2.684	3.628	5.1	21.1
1 22	8 44.58	+25 39.8	2.655	3.630	2.5	20.9
2 1	8 36.31	+26 18.0	2.657	3.632	2.7	20.9
2 11	8 28.29	+26 48.2	2.690	3.633	5.3	21.1
2 21	8 21.26	+27 8.5	2.752	3.634	8.1	21.3
3 2	8 15.82	+27 18.7	2.838	3.635	10.5	21.4

4140 Branham 1 28.2 129°.87 0°.1/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.40	+15 47.2	2.448	3.236	12.0	16.5
1 2	8 58.81	+16 23.1	2.367	3.245	9.2	16.3
1 12	8 52.37	+17 7.4	2.311	3.253	5.9	16.1
1 22	8 44.62	+17 56.8	2.283	3.261	2.3	15.9
2 1	8 36.30	+18 47.1	2.286	3.269	1.4	15.9
2 11	8 28.29	+19 34.3	2.319	3.276	5.0	16.1
2 21	8 21.36	+20 15.2	2.381	3.283	8.3	16.3
3 2	8 16.15	+20 47.9	2.469	3.290	11.2	16.5

164824 1999 RS_{176} 1 28.2 128°.16 2°.1/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.04	+10 56.3	1.798	2.584	15.8	20.7
1 2	9 2.14	+11 6.2	1.721	2.593	12.4	20.5
1 12	8 54.77	+11 30.4	1.665	2.601	8.4	20.3
1 22	8 45.62	+12 6.5	1.636	2.609	4.1	20.0
2 1	8 35.69	+12 50.5	1.635	2.617	2.4	19.9
2 11	8 26.22	+13 37.1	1.664	2.624	6.2	20.2
2 21	8 18.27	+14 21.6	1.719	2.631	10.3	20.4
3 2	8 12.67	+15 0.6	1.799	2.638	13.9	20.7

402083 2003 UH_{215} 1 28.2 146°.86 1°.8/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.45	+20 54.5	1.999	2.798	13.9	22.3
1 2	9 3.84	+21 35.7	1.923	2.808	10.6	22.1
1 12	8 55.80	+22 23.1	1.872	2.817	6.8	21.9
1 22	8 46.00	+23 11.2	1.848	2.826	2.9	21.7
2 1	8 35.47	+23 54.5	1.855	2.834	2.8	21.7
2 11	8 25.40	+24 28.2	1.891	2.841	6.6	21.9
2 21	8 16.85	+24 50.2	1.955	2.848	10.3	22.2
3 2	8 10.63	+25 0.0	2.043	2.854	13.6	22.4

92291 2000 EZ_{85} 1 28.2 255°.82 5°.2/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.37	+27 58.2	1.556	2.376	16.3	19.3
1 2	9 6.42	+28 53.7	1.472	2.365	12.7	19.1
1 12	8 58.09	+29 51.9	1.411	2.354	8.7	18.8
1 22	8 47.09	+30 44.0	1.374	2.343	5.5	18.6
2 1	8 34.77	+31 20.9	1.366	2.332	6.2	18.6
2 11	8 22.91	+31 36.5	1.384	2.320	9.9	18.8
2 21	8 13.10	+31 29.9	1.426	2.309	14.1	19.0
3 2	8 6.51	+31 3.7	1.489	2.297	17.9	19.2

459059 2012 BL_{18} 1 28.2 33°.97 0°.2/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.54	+20 17.2	1.452	2.267	17.5	20.5
1 2	9 6.06	+19 50.0	1.383	2.275	13.4	20.3
1 12	8 57.48	+19 27.4	1.336	2.284	8.7	20.0
1 22	8 46.69	+19 6.1	1.314	2.293	3.4	19.7
2 1	8 35.11	+18 43.4	1.320	2.303	2.1	19.7
2 11	8 24.34	+18 17.3	1.353	2.313	7.3	20.0
2 21	8 15.72	+17 47.4	1.412	2.324	12.1	20.3
3 2	8 10.13	+17 14.2	1.493	2.335	16.1	20.6

22746 1998 UC_{7} 1 28.2 48°.33 5°.8/31.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.53	+ 0 54.1	2.135	2.877	15.0	18.7
1 2	8 58.38	+ 0 27.5	2.048	2.879	12.4	18.5
1 12	8 52.22	+ 0 18.4	1.983	2.881	9.6	18.3
1 22	8 44.61	+ 0 27.7	1.942	2.883	7.0	18.2
2 1	8 36.33	+ 0 54.6	1.929	2.885	5.8	18.1
2 11	8 28.34	+ 1 36.1	1.944	2.887	7.0	18.2
2 21	8 21.49	+ 2 27.5	1.986	2.890	9.6	18.3
3 2	8 16.51	+ 3 23.5	2.053	2.892	12.4	18.5

498245 2007 US_{88} 1 28.2 354°.62 4°.6/31.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.85	+ 3 40.1	2.278	3.030	13.9	21.3
1 2	8 57.76	+ 3 20.8	2.187	3.029	11.3	21.1
1 12	8 51.78	+ 3 16.4	2.120	3.029	8.5	20.9
1 22	8 44.43	+ 3 27.3	2.077	3.028	5.8	20.8
2 1	8 36.45	+ 3 52.2	2.063	3.028	4.6	20.7
2 11	8 28.73	+ 4 28.2	2.078	3.028	6.1	20.8
2 21	8 22.08	+ 5 11.2	2.121	3.028	8.9	20.9
3 2	8 17.16	+ 5 56.9	2.189	3.028	11.8	21.1

167667 2004 EK_{75} 1 28.2 293°.08 0°.9/27.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.95	+19 8.7	2.262	3.064	12.4	20.5
1 2	8 58.81	+19 37.4	2.165	3.051	9.5	20.3
1 12	8 52.58	+20 13.1	2.092	3.038	6.1	20.1
1 22	8 44.79	+20 52.1	2.047	3.025	2.4	19.8
2 1	8 36.23	+21 30.2	2.031	3.013	2.0	19.8
2 11	8 27.88	+22 3.3	2.045	3.000	5.8	20.0
2 21	8 20.66	+22 28.4	2.087	2.987	9.4	20.2
3 2	8 15.34	+22 44.1	2.153	2.975	12.6	20.4

37170 2000 WY_{26} 1 28.2 44°.36 1°.7/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.62	+20 31.1	2.547	3.348	11.2	18.6
1 2	8 57.54	+21 33.8	2.463	3.349	8.5	18.5
1 12	8 51.63	+22 42.9	2.404	3.350	5.4	18.3
1 22	8 44.38	+23 53.9	2.373	3.350	2.4	18.1
2 1	8 36.49	+25 1.6	2.374	3.351	2.6	18.1
2 11	8 28.83	+26 1.2	2.405	3.352	5.6	18.3
2 21	8 22.18	+26 49.8	2.465	3.353	8.7	18.5
3 2	8 17.20	+27 25.9	2.549	3.353	11.4	18.7

82904 2001 QO_{98} 1 28.2 158°.53 1°.4/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.38	+12 14.7	2.205	2.983	13.5	20.7
1 2	9 1.25	+12 29.2	2.120	2.989	10.5	20.5
1 12	8 54.03	+12 54.7	2.059	2.995	7.0	20.3
1 22	8 45.32	+13 28.9	2.026	3.000	3.3	20.0
2 1	8 35.95	+14 8.2	2.023	3.005	1.8	19.9
2 11	8 26.91	+14 48.5	2.050	3.009	5.4	20.2
2 21	8 19.10	+15 26.3	2.106	3.013	9.0	20.4
3 2	8 13.24	+15 58.8	2.187	3.016	12.1	20.6

221352 2005 WU_{110} 1 28.2 182°.18 0°.9/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.78	+18 45.4	2.073	2.873	13.5	20.8
1 2	9 1.04	+19 17.4	1.988	2.873	10.3	20.5
1 12	8 54.03	+19 57.0	1.928	2.873	6.6	20.3
1 22	8 45.35	+20 40.1	1.895	2.873	2.6	20.1
2 1	8 35.92	+21 21.7	1.891	2.873	2.1	20.0
2 11	8 26.83	+21 57.3	1.918	2.872	6.1	20.3
2 21	8 19.07	+22 24.1	1.971	2.872	9.8	20.5
3 2	8 13.44	+22 40.6	2.049	2.871	13.1	20.7

167660 2004 EQ_{18} 1 28.2 70°.14 1°.7/26.9 18

12 23	9 3.12	+19 58.9	2.196	3.001	12.7	19.8
1 2	8 58.87	+21 0.1	2.122	3.010	9.6	19.7
1 12	8 52.56	+22 8.6	2.073	3.020	6.1	19.5
1 22	8 44.75	+23 19.1	2.052	3.029	2.6	19.2
2 1	8 36.29	+24 25.7	2.061	3.039	2.7	19.3
2 11	8 28.18	+25 23.2	2.099	3.048	6.1	19.5
2 21	8 21.30	+26 8.5	2.166	3.058	9.5	19.7
3 2	8 16.38	+26 40.3	2.257	3.068	12.4	19.9

322859 2001 UN_{97} 1 28.2 69°.04 5°.2/31.5 18

12 23	9 3.67	+ 3 2.4	1.801	2.563	16.6	20.7
1 2	8 59.56	+ 2 53.5	1.723	2.571	13.6	20.5
1 12	8 53.13	+ 3 4.7	1.666	2.579	10.1	20.3
1 22	8 45.01	+ 3 36.0	1.634	2.588	6.8	20.1
2 1	8 36.16	+ 4 24.8	1.628	2.596	5.2	20.1
2 11	8 27.70	+ 5 26.2	1.651	2.604	7.0	20.2
2 21	8 20.66	+ 6 33.8	1.700	2.613	10.4	20.4
3 2	8 15.81	+ 7 41.5	1.774	2.621	13.7	20.6

148012 1997 TT_{18} 1 28.2 116°.24 4°.0/26.2 18

12 23	9 13.72	+29 11.1	2.006	2.807	13.8	19.9
1 2	9 7.06	+29 38.9	1.940	2.822	10.6	19.8
1 12	8 57.80	+30 4.6	1.898	2.837	7.2	19.6
1 22	8 46.78	+30 22.3	1.883	2.851	4.4	19.4
2 1	8 35.15	+30 27.0	1.899	2.865	4.7	19.5
2 11	8 24.23	+30 16.3	1.943	2.878	7.6	19.7
2 21	8 15.12	+29 51.0	2.015	2.891	10.9	19.9
3 2	8 8.57	+29 13.8	2.110	2.903	13.8	20.1

64079 2001 SP_{279} 1 28.2 98°.67 1°.7/27.4 18

12 23	9 9.83	+20 14.6	1.497	2.312	17.0	19.1
1 2	9 4.85	+20 47.1	1.428	2.321	13.0	18.9
1 12	8 56.80	+21 28.1	1.381	2.329	8.3	18.6
1 22	8 46.50	+22 11.3	1.359	2.337	3.4	18.3
2 1	8 35.28	+22 49.8	1.365	2.345	3.0	18.3
2 11	8 24.71	+23 17.9	1.398	2.353	7.8	18.6
2 21	8 16.15	+23 33.1	1.457	2.361	12.4	18.9
3 2	8 10.56	+23 35.3	1.538	2.369	16.3	19.2

359217 2009 DY_{107} 1 28.2 296°.02 4°.5/25.8 18

12 23	9 8.14	+26 7.9	1.557	2.381	16.1	20.5
1 2	9 3.83	+27 7.4	1.478	2.375	12.4	20.3
1 12	8 56.34	+28 11.5	1.422	2.369	8.3	20.0
1 22	8 46.41	+29 11.9	1.391	2.363	4.9	19.8
2 1	8 35.32	+29 59.6	1.387	2.357	5.6	19.8
2 11	8 24.69	+30 28.5	1.411	2.351	9.4	20.0
2 21	8 16.00	+30 36.6	1.458	2.346	13.5	20.3
3 2	8 10.33	+30 25.5	1.527	2.340	17.2	20.5

326016 2010 WA_{62} 1 28.2 327°.99 1°.4/27.5 18

12 23	9 4.74	+19 37.4	1.615	2.433	15.8	20.9
1 2	9 0.95	+20 7.1	1.530	2.425	12.1	20.7
1 12	8 54.35	+20 46.0	1.468	2.417	7.8	20.4
1 22	8 45.60	+21 29.1	1.431	2.410	3.1	20.1
2 1	8 35.81	+22 9.9	1.422	2.403	2.7	20.1
2 11	8 26.40	+22 42.8	1.439	2.396	7.4	20.3
2 21	8 18.67	+23 4.3	1.483	2.390	12.0	20.6
3 2	8 13.59	+23 13.2	1.548	2.385	15.9	20.8

67425 2000 QK_{92} 1 28.2 246°.41 0°.1/28.2 18

12 23	9 9.67	+17 37.3	1.749	2.549	15.6	19.8
1 2	9 4.57	+17 46.0	1.652	2.537	12.1	19.5
1 12	8 56.64	+18 3.5	1.579	2.523	7.9	19.3
1 22	8 46.51	+18 26.3	1.531	2.510	3.1	18.9
2 1	8 35.25	+18 49.7	1.513	2.496	1.9	18.8
2 11	8 24.27	+19 9.1	1.523	2.481	6.9	19.1
2 21	8 14.88	+19 21.6	1.560	2.466	11.5	19.3
3 2	8 8.11	+19 25.9	1.620	2.451	15.6	19.5

241022 2006 QL_{31} 1 28.2 144°.55 2°.3/30.3 18

12 23	9 1.82	+ 7 29.4	2.934	3.687	11.0	21.6
1 2	8 57.28	+ 7 45.5	2.846	3.697	8.7	21.4
1 12	8 51.26	+ 8 12.7	2.784	3.706	6.1	21.2
1 22	8 44.21	+ 8 49.4	2.750	3.714	3.5	21.1
2 1	8 36.70	+ 9 33.5	2.746	3.722	2.4	21.0
2 11	8 29.42	+10 21.6	2.774	3.730	4.3	21.2
2 21	8 23.00	+11 10.4	2.831	3.738	7.0	21.3
3 2	8 17.94	+11 57.2	2.916	3.745	9.4	21.5

214235 2005 EL_{176} 1 28.2 198°.74 2°.7/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.68	+ 8 56.6	1.909	2.687	15.3	21.5
1 2	9 1.12	+ 9 8.2	1.820	2.685	12.1	21.3
1 12	8 54.18	+ 9 35.5	1.752	2.683	8.4	21.0
1 22	8 45.47	+10 16.7	1.711	2.680	4.5	20.8
2 1	8 35.90	+11 8.2	1.698	2.677	2.9	20.7
2 11	8 26.62	+12 4.9	1.714	2.674	6.1	20.9
2 21	8 18.69	+13 1.3	1.758	2.670	10.1	21.1
3 2	8 12.95	+13 53.2	1.827	2.666	13.7	21.3

188324 2003 JD_{16} 1 28.2 175°.18 7°.5/20.5 18

12 23	9 11.74	+38 5.3	2.464	3.256	11.8	19.9
1 2	9 5.98	+40 20.3	2.397	3.259	9.7	19.8
1 12	8 57.51	+42 31.5	2.357	3.261	8.0	19.7
1 22	8 46.86	+44 29.0	2.346	3.262	7.5	19.7
2 1	8 35.01	+46 4.3	2.366	3.263	8.4	19.7
2 11	8 23.28	+47 12.3	2.414	3.263	10.3	19.8
2 21	8 12.93	+47 52.5	2.487	3.263	12.3	20.0
3 2	8 5.02	+48 7.7	2.580	3.263	14.2	20.1

240145 2002 JH_{115} 1 28.2 195°.65 14°.2/ 6.9 18

12 23	9 5.61	−15 11.3	1.308	2.000	25.0	20.2
1 2	9 2.14	−15 47.4	1.228	1.999	22.5	20.0
1 12	8 55.43	−15 41.0	1.162	1.998	19.6	19.8
1 22	8 46.13	−14 43.8	1.113	1.997	16.7	19.6
2 1	8 35.48	−12 52.5	1.083	1.995	14.6	19.5
2 11	8 25.17	−10 13.0	1.077	1.993	14.4	19.5
2 21	8 16.77	− 7 0.1	1.095	1.991	16.2	19.6
3 2	8 11.48	− 3 33.0	1.135	1.989	19.3	19.7

141666 2002 JV_{92} 1 28.2 219°.57 0°.7/28.6 18

12 23	9 10.32	+15 10.9	1.550	2.351	17.2	20.8
1 2	9 5.33	+15 22.9	1.462	2.345	13.4	20.6
1 12	8 57.26	+15 47.7	1.395	2.339	8.8	20.3
1 22	8 46.79	+16 21.6	1.354	2.332	3.7	19.9
2 1	8 35.13	+16 59.4	1.341	2.324	2.0	19.8
2 11	8 23.84	+17 35.3	1.356	2.316	7.3	20.1
2 21	8 14.35	+18 4.9	1.396	2.307	12.3	20.4
3 2	8 7.76	+18 25.7	1.460	2.298	16.6	20.6

274719 2008 UN_{142} 1 28.2 182°.38 3°.4/25.5 17

12 23	9 6.61	+27 54.0	2.655	3.454	10.9	21.4
1 2	9 1.32	+28 44.6	2.572	3.454	8.4	21.2
1 12	8 54.06	+29 35.9	2.515	3.455	5.7	21.0
1 22	8 45.37	+30 22.8	2.488	3.454	3.6	20.9
2 1	8 36.04	+31 0.5	2.490	3.454	4.0	20.9
2 11	8 27.00	+31 25.8	2.523	3.452	6.4	21.1
2 21	8 19.10	+31 37.4	2.584	3.451	9.1	21.3
3 2	8 13.02	+31 36.0	2.669	3.448	11.6	21.4

142687 2002 TX_{235} 1 28.2 26°.66 9°.3/31.8 18

12 23	9 6.28	+ 2 31.3	1.175	1.965	22.2	18.6
1 2	9 2.35	+ 0 49.8	1.124	1.983	18.5	18.4
1 12	8 55.24	− 0 27.5	1.090	2.001	14.4	18.2
1 22	8 45.90	− 1 15.7	1.078	2.022	10.8	18.1
2 1	8 35.77	− 1 33.1	1.088	2.043	9.3	18.1
2 11	8 26.51	− 1 22.8	1.122	2.066	10.8	18.2
2 21	8 19.46	− 0 51.9	1.179	2.090	14.0	18.5
3 2	8 15.47	− 0 9.3	1.256	2.115	17.4	18.7

416200 2002 TZ_{308} 1 28.2 185°.50 3°.8/25.4 18

12 23	9 5.17	+27 20.8	2.259	3.068	12.2	20.7
1 2	9 0.57	+28 20.6	2.180	3.068	9.4	20.5
1 12	8 53.74	+29 22.2	2.126	3.068	6.3	20.4
1 22	8 45.29	+30 19.6	2.100	3.068	4.0	20.2
2 1	8 36.09	+31 6.8	2.103	3.067	4.6	20.2
2 11	8 27.22	+31 39.8	2.136	3.067	7.3	20.4
2 21	8 19.66	+31 56.8	2.195	3.067	10.3	20.6
3 2	8 14.18	+31 58.5	2.278	3.067	13.0	20.8

163423 2002 RD_{57} 1 28.2 138°.60 0°.1/28.2 18

12 23	9 5.10	+17 11.3	2.677	3.461	11.2	21.0
1 2	8 59.92	+17 27.9	2.596	3.472	8.5	20.9
1 12	8 53.02	+17 50.4	2.541	3.482	5.5	20.7
1 22	8 44.92	+18 16.1	2.514	3.492	2.1	20.5
2 1	8 36.34	+18 41.9	2.519	3.502	1.3	20.4
2 11	8 28.08	+19 5.0	2.554	3.511	4.6	20.7
2 21	8 20.87	+19 23.4	2.619	3.519	7.7	20.9
3 2	8 15.29	+19 35.9	2.710	3.528	10.4	21.1

418320 2008 FR_{104} 1 28.2 156°.56 6°.8/23.5 18

12 23	9 11.04	+35 57.7	2.126	2.929	13.1	21.3
1 2	9 5.37	+37 14.6	2.059	2.933	10.5	21.2
1 12	8 56.98	+38 26.7	2.016	2.937	8.1	21.0
1 22	8 46.59	+39 25.6	2.000	2.941	6.8	21.0
2 1	8 35.33	+40 4.4	2.013	2.944	7.5	21.0
2 11	8 24.58	+40 19.5	2.053	2.948	9.7	21.1
2 21	8 15.55	+40 11.5	2.118	2.950	12.2	21.3
3 2	8 9.13	+39 43.8	2.204	2.953	14.6	21.5

366868 2005 SP_{156} 1 28.3 167°.51 0°.8/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.74	+18 38.1	2.115	2.912	13.3	21.8
1 2	9 1.72	+19 7.4	2.031	2.914	10.2	21.6
1 12	8 54.46	+19 44.0	1.972	2.917	6.5	21.4
1 22	8 45.57	+20 23.9	1.941	2.919	2.5	21.1
2 1	8 35.95	+21 2.3	1.939	2.921	2.0	21.1
2 11	8 26.69	+21 35.1	1.967	2.922	5.9	21.4
2 21	8 18.76	+21 59.5	2.023	2.923	9.7	21.6
3 2	8 12.94	+22 14.3	2.104	2.924	12.9	21.8

116683 2004 CY_{71} 1 28.3 27°.44 4°.7/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.37	+30 19.4	2.138	2.949	12.7	19.6
1 2	9 1.59	+31 10.0	2.065	2.952	9.9	19.4
1 12	8 54.43	+31 59.4	2.016	2.954	6.9	19.2
1 22	8 45.56	+32 41.3	1.994	2.957	4.8	19.1
2 1	8 35.96	+33 10.0	2.001	2.959	5.4	19.1
2 11	8 26.82	+33 22.2	2.036	2.962	8.0	19.3
2 21	8 19.16	+33 17.3	2.098	2.965	10.9	19.5
3 2	8 13.77	+32 57.1	2.182	2.969	13.6	19.6

443897 2001 YO_{36} 1 28.3 73°.98 2°.3/27.2 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.09	+21 21.0	1.406	2.222	17.9	21.6
1 2	9 7.20	+22 3.0	1.357	2.250	13.5	21.4
1 12	8 58.16	+22 51.7	1.331	2.279	8.6	21.2
1 22	8 46.99	+23 39.6	1.330	2.307	3.7	21.0
2 1	8 35.18	+24 19.1	1.356	2.335	3.5	21.0
2 11	8 24.38	+24 45.1	1.410	2.363	8.1	21.4
2 21	8 15.89	+24 56.1	1.489	2.390	12.4	21.7
3 2	8 10.51	+24 53.2	1.591	2.417	16.1	22.0

424878 2008 VN_{71} 1 28.3 37°.82 4°.7/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.74	+31 12.1	1.555	2.368	16.6	19.6
1 2	9 9.56	+31 10.3	1.513	2.400	12.8	19.5
1 12	8 59.37	+31 2.6	1.492	2.433	8.7	19.3
1 22	8 47.34	+30 43.1	1.498	2.466	5.2	19.2
2 1	8 35.04	+30 8.2	1.531	2.500	5.3	19.3
2 11	8 24.04	+29 18.2	1.593	2.534	8.5	19.5
2 21	8 15.50	+28 16.4	1.681	2.569	12.0	19.8
3 2	8 10.05	+27 7.1	1.792	2.604	15.1	20.1

51377 2001 AK_{28} 1 28.3 247°.57 7°.6/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 28.36	+35 11.6	1.210	2.022	20.4	18.7
1 2	9 20.50	+35 17.5	1.132	2.016	16.4	18.4
1 12	9 7.63	+35 11.9	1.074	2.009	12.0	18.1
1 22	8 50.95	+34 42.4	1.040	2.002	8.2	17.9
2 1	8 32.78	+33 40.0	1.032	1.995	8.3	17.8
2 11	8 15.98	+32 4.5	1.050	1.987	12.3	18.0
2 21	8 2.82	+30 5.1	1.092	1.979	17.1	18.3
3 2	7 54.53	+27 53.7	1.156	1.972	21.5	18.5

459768 2013 QD_{70} 1 28.3 201°.32 2°.5/26.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.47	+25 40.1	2.486	3.279	11.7	22.1
1 2	9 4.33	+26 3.3	2.394	3.274	9.0	21.9
1 12	8 56.03	+26 27.3	2.328	3.269	5.9	21.7
1 22	8 46.17	+26 48.0	2.290	3.263	3.1	21.5
2 1	8 35.61	+27 1.1	2.283	3.257	3.2	21.5
2 11	8 25.39	+27 3.9	2.307	3.249	6.1	21.7
2 21	8 16.43	+26 55.7	2.360	3.242	9.3	21.8
3 2	8 9.48	+26 37.3	2.438	3.233	12.1	22.0

191346 2003 QH_{39} 1 28.3 132°.11 1°.0/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.63	+19 33.4	2.226	3.025	12.7	20.4
1 2	9 0.74	+20 2.2	2.147	3.031	9.7	20.2
1 12	8 53.76	+20 37.0	2.092	3.037	6.2	20.0
1 22	8 45.28	+21 14.0	2.064	3.043	2.4	19.8
2 1	8 36.16	+21 48.8	2.067	3.048	2.0	19.7
2 11	8 27.42	+22 17.5	2.100	3.054	5.7	20.0
2 21	8 19.95	+22 37.8	2.160	3.059	9.2	20.2
3 2	8 14.45	+22 48.8	2.246	3.064	12.2	20.4

160152 2001 OS_{54} 1 28.3 46°.37 3°.7/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.23	+28 43.4	1.828	2.637	14.6	18.2
1 2	9 5.96	+28 51.3	1.774	2.661	11.2	18.1
1 12	8 57.08	+28 56.5	1.743	2.685	7.5	17.9
1 22	8 46.52	+28 53.9	1.738	2.709	4.2	17.7
2 1	8 35.52	+28 39.6	1.763	2.734	4.3	17.8
2 11	8 25.41	+28 12.2	1.816	2.759	7.5	18.0
2 21	8 17.25	+27 33.1	1.896	2.784	10.9	18.3
3 2	8 11.70	+26 45.1	2.000	2.809	13.9	18.5

192835 1999 VB_{118} 1 28.3 248°.64 3°.9/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.06	+ 5 35.7	2.103	2.866	14.5	20.6
1 2	8 58.92	+ 5 32.4	2.010	2.862	11.7	20.4
1 12	8 52.69	+ 5 45.1	1.939	2.858	8.5	20.2
1 22	8 44.91	+ 6 13.1	1.894	2.854	5.3	20.0
2 1	8 36.38	+ 6 54.3	1.877	2.849	3.9	19.9
2 11	8 28.09	+ 7 44.7	1.889	2.845	6.1	20.0
2 21	8 20.96	+ 8 39.5	1.929	2.840	9.4	20.2
3 2	8 15.74	+ 9 34.0	1.993	2.835	12.6	20.4

496123 2010 CJ_{186} 1 28.3 118°.91 6°.3/22.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.09	+36 55.7	2.469	3.270	11.5	21.0
1 2	9 2.07	+38 12.5	2.402	3.273	9.3	20.9
1 12	8 54.73	+39 24.3	2.360	3.277	7.3	20.8
1 22	8 45.70	+40 24.3	2.346	3.281	6.3	20.7
2 1	8 35.93	+41 6.4	2.360	3.284	7.0	20.8
2 11	8 26.55	+41 27.7	2.402	3.288	8.9	20.9
2 21	8 18.57	+41 28.2	2.469	3.291	11.1	21.0
3 2	8 12.76	+41 10.2	2.558	3.294	13.1	21.2

125647 2001 XR_{66} 1 28.3 66°.34 0°.2/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.66	+15 37.7	1.348	2.162	18.6	19.9
1 2	9 4.70	+16 15.3	1.297	2.187	14.2	19.7
1 12	8 56.65	+17 6.8	1.266	2.213	9.1	19.4
1 22	8 46.46	+18 5.9	1.260	2.239	3.5	19.2
2 1	8 35.55	+19 4.8	1.281	2.264	2.1	19.2
2 11	8 25.53	+19 56.3	1.329	2.290	7.5	19.6
2 21	8 17.69	+20 36.2	1.403	2.315	12.2	19.9
3 2	8 12.87	+21 2.8	1.499	2.340	16.1	20.2

414854 2010 VU_{80} 1 28.3 281°.83 5°.3/24.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.72	+28 38.2	1.755	2.574	14.7	21.0
1 2	9 3.35	+29 48.4	1.671	2.563	11.5	20.8
1 12	8 56.00	+31 1.5	1.610	2.551	8.0	20.5
1 22	8 46.35	+32 8.9	1.575	2.540	5.5	20.4
2 1	8 35.52	+33 1.9	1.568	2.529	6.3	20.4
2 11	8 25.04	+33 34.4	1.588	2.518	9.5	20.5
2 21	8 16.28	+33 44.7	1.633	2.506	13.2	20.7
3 2	8 10.31	+33 34.5	1.700	2.495	16.5	20.9

69468 1996 VO_{15} 1 28.3 262°.17 0°.6/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.07	+15 7.2	1.732	2.532	15.7	20.2
1 2	9 2.64	+15 24.1	1.635	2.518	12.2	19.9
1 12	8 55.46	+15 53.1	1.560	2.503	8.1	19.6
1 22	8 46.13	+16 31.2	1.511	2.488	3.3	19.3
2 1	8 35.65	+17 13.3	1.490	2.473	1.8	19.2
2 11	8 25.39	+17 54.1	1.497	2.458	6.8	19.4
2 21	8 16.63	+18 29.0	1.532	2.442	11.5	19.7
3 2	8 10.39	+18 55.2	1.589	2.426	15.5	19.9

169565 2002 EP_{155} 1 28.3 251°.83 2°.8/26.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.10	+23 26.6	1.938	2.742	14.1	20.9
1 2	9 4.89	+24 10.2	1.836	2.722	10.9	20.7
1 12	8 56.90	+24 59.6	1.757	2.702	7.2	20.4
1 22	8 46.70	+25 49.1	1.706	2.681	3.5	20.1
2 1	8 35.31	+26 31.8	1.684	2.659	3.8	20.1
2 11	8 24.07	+27 2.3	1.691	2.637	7.7	20.3
2 21	8 14.29	+27 17.8	1.726	2.614	11.8	20.5
3 2	8 7.02	+27 18.3	1.783	2.590	15.4	20.7

521089 2015 DZ_{241} 1 28.3 73°.07 4°.3/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.53	+30 24.9	2.319	3.126	12.0	21.0
1 2	9 1.51	+31 10.9	2.247	3.132	9.3	20.9
1 12	8 54.29	+31 55.3	2.200	3.137	6.5	20.7
1 22	8 45.51	+32 32.5	2.181	3.143	4.5	20.6
2 1	8 36.11	+32 57.5	2.191	3.149	5.0	20.6
2 11	8 27.15	+33 7.3	2.230	3.156	7.4	20.8
2 21	8 19.57	+33 1.5	2.296	3.162	10.2	21.0
3 2	8 14.09	+32 41.8	2.385	3.168	12.7	21.1

50017 2000 AA_{33} 1 28.3 74°.97 2°.0/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.37	+20 53.1	1.313	2.134	18.6	18.5
1 2	9 7.00	+21 24.0	1.258	2.154	14.2	18.3
1 12	8 58.25	+22 2.9	1.224	2.173	9.0	18.0
1 22	8 47.13	+22 42.4	1.214	2.192	3.7	17.8
2 1	8 35.19	+23 15.2	1.231	2.212	3.3	17.8
2 11	8 24.22	+23 35.8	1.275	2.231	8.3	18.1
2 21	8 15.64	+23 42.5	1.344	2.250	13.1	18.5
3 2	8 10.35	+23 36.0	1.434	2.269	17.0	18.8

258629 2002 EU 1 28.3 358°.55 7°.2/ 1.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 46.50	+ 3 38.8	0.885	1.731	23.4	19.0
1 2	8 48.20	+ 3 15.1	0.821	1.720	19.3	18.7
1 12	8 46.75	+ 3 26.1	0.773	1.712	14.6	18.4
1 22	8 42.82	+ 4 14.5	0.742	1.707	9.8	18.2
2 1	8 37.70	+ 5 37.0	0.731	1.707	7.2	18.0
2 11	8 33.12	+ 7 22.7	0.741	1.710	9.6	18.1
2 21	8 30.64	+ 9 16.6	0.771	1.717	14.4	18.4
3 2	8 31.34	+11 4.3	0.819	1.727	19.2	18.7

308735 2006 HO_{85} 1 28.3 245°.16 5°.5/25.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.79	+28 57.4	1.598	2.418	15.9	20.8
1 2	9 5.86	+29 57.5	1.522	2.414	12.4	20.6
1 12	8 57.68	+30 59.0	1.468	2.410	8.6	20.3
1 22	8 47.02	+31 52.9	1.440	2.406	5.7	20.2
2 1	8 35.21	+32 30.4	1.439	2.402	6.4	20.2
2 11	8 23.94	+32 46.1	1.465	2.398	9.8	20.4
2 21	8 14.72	+32 39.4	1.516	2.394	13.7	20.6
3 2	8 8.59	+32 13.2	1.587	2.389	17.2	20.8

98479 2000 UM_{100} 1 28.3 221°.40 1°.5/29.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.03	+13 52.8	1.817	2.607	15.5	19.4
1 2	9 3.88	+13 47.3	1.725	2.601	12.1	19.2
1 12	8 56.10	+13 52.5	1.656	2.595	8.1	18.9
1 22	8 46.34	+14 6.2	1.613	2.588	3.7	18.7
2 1	8 35.62	+14 25.2	1.599	2.581	2.1	18.5
2 11	8 25.22	+14 45.6	1.613	2.573	6.4	18.8
2 21	8 16.34	+15 4.2	1.655	2.565	10.8	19.0
3 2	8 9.89	+15 18.4	1.721	2.557	14.6	19.2

304793 2007 OP_9 1 28.3 169°.93 3°.1/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.44	+ 9 31.5	2.074	2.839	14.7	21.1
1 2	9 4.49	+ 9 10.1	1.987	2.843	11.6	20.9
1 12	8 56.24	+ 9 0.2	1.922	2.847	8.2	20.7
1 22	8 46.33	+ 9 1.4	1.884	2.851	4.6	20.5
2 1	8 35.67	+ 9 11.6	1.877	2.853	3.2	20.4
2 11	8 25.38	+ 9 28.3	1.899	2.855	6.1	20.5
2 21	8 16.47	+ 9 48.0	1.950	2.856	9.7	20.8
3 2	8 9.70	+10 7.9	2.026	2.856	12.9	21.0

409377 2005 CE_{20} 1 28.3 327°.47 1°.2/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.04	+17 55.1	1.467	2.276	17.6	20.1
1 2	9 6.73	+17 11.5	1.382	2.269	13.8	19.9
1 12	8 58.19	+16 33.0	1.318	2.263	9.1	19.6
1 22	8 47.21	+15 57.9	1.280	2.257	3.9	19.3
2 1	8 35.13	+15 24.5	1.268	2.251	2.3	19.1
2 11	8 23.61	+14 51.6	1.285	2.246	7.5	19.4
2 21	8 14.12	+14 18.6	1.327	2.241	12.5	19.7
3 2	8 7.69	+13 45.4	1.392	2.237	16.9	20.0

269428 2009 SD_{135} 1 28.3 87°.62 2°.5/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.26	+10 3.7	1.958	2.738	14.9	22.0
1 2	9 0.62	+10 3.5	1.881	2.749	11.7	21.8
1 12	8 53.77	+10 16.6	1.827	2.759	8.0	21.6
1 22	8 45.35	+10 41.4	1.800	2.770	4.2	21.4
2 1	8 36.27	+11 14.6	1.801	2.780	2.7	21.3
2 11	8 27.62	+11 52.1	1.831	2.791	5.8	21.5
2 21	8 20.34	+12 29.7	1.889	2.801	9.5	21.7
3 2	8 15.16	+13 4.1	1.971	2.811	12.8	22.0

11580 Bautzen 1 28.3 2°.63 2°.7/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.77	+11 35.9	1.306	2.122	19.0	17.7
1 2	9 0.60	+11 28.5	1.232	2.121	15.0	17.4
1 12	8 54.33	+11 38.3	1.178	2.120	10.2	17.1
1 22	8 45.72	+12 3.6	1.147	2.121	5.1	16.9
2 1	8 36.02	+12 40.1	1.140	2.122	3.0	16.7
2 11	8 26.85	+13 21.7	1.160	2.124	7.6	17.0
2 21	8 19.62	+14 2.2	1.204	2.127	12.7	17.3
3 2	8 15.36	+14 36.9	1.268	2.131	17.1	17.6

520884 2014 WB_{523} 1 28.3 33°.12 0°.9/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.05	+18 57.3	1.794	2.603	14.9	21.8
1 2	9 1.58	+19 19.5	1.716	2.605	11.4	21.6
1 12	8 54.57	+19 49.6	1.661	2.608	7.3	21.3
1 22	8 45.72	+20 23.3	1.632	2.610	2.9	21.0
2 1	8 36.05	+20 55.4	1.631	2.613	2.1	21.0
2 11	8 26.83	+21 21.5	1.659	2.616	6.6	21.3
2 21	8 19.18	+21 38.6	1.714	2.620	10.7	21.5
3 2	8 13.93	+21 45.8	1.792	2.623	14.3	21.8

351000 2003 HR_{26} 1 28.3 251°.26 1°.8/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.78	+19 43.1	1.833	2.637	14.8	21.4
1 2	9 4.01	+20 32.8	1.731	2.618	11.4	21.2
1 12	8 56.42	+21 33.0	1.653	2.599	7.4	20.9
1 22	8 46.58	+22 38.0	1.601	2.579	3.1	20.6
2 1	8 35.48	+23 40.7	1.579	2.558	3.0	20.5
2 11	8 24.49	+24 34.3	1.585	2.537	7.5	20.8
2 21	8 14.95	+25 14.5	1.619	2.515	11.9	21.0
3 2	8 7.94	+25 39.6	1.676	2.493	15.8	21.2

46537 1981 EV_{45} 1 28.3 225°.02 0°.3/28.5 17 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.91	+16 12.1	2.514	3.299	11.8	20.5
1 2	9 0.07	+16 25.7	2.416	3.291	9.1	20.3
1 12	8 53.33	+16 46.5	2.342	3.283	5.9	20.1
1 22	8 45.19	+17 12.0	2.296	3.274	2.4	19.8
2 1	8 36.38	+17 39.1	2.282	3.265	1.3	19.7
2 11	8 27.78	+18 4.6	2.297	3.255	5.0	20.0
2 21	8 20.22	+18 25.9	2.342	3.245	8.4	20.2
3 2	8 14.36	+18 41.5	2.412	3.235	11.4	20.4

331765 2002 XS_{119} 1 28.3 83°.76 0°.7/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.64	+17 34.1	2.325	3.118	12.4	21.0
1 2	8 59.81	+18 21.4	2.260	3.141	9.4	20.9
1 12	8 53.08	+19 16.1	2.220	3.164	5.9	20.7
1 22	8 45.05	+20 13.9	2.208	3.187	2.3	20.5
2 1	8 36.51	+21 10.0	2.227	3.209	1.8	20.5
2 11	8 28.38	+21 59.9	2.277	3.231	5.3	20.8
2 21	8 21.47	+22 40.9	2.355	3.253	8.6	21.0
3 2	8 16.40	+23 11.5	2.458	3.274	11.4	21.2

266553 2008 GX_{32} 1 28.3 303°.80 3°.0/26.4 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.16	+22 26.2	1.676	2.496	15.3	20.5
1 2	9 1.38	+23 24.2	1.589	2.485	11.7	20.2
1 12	8 54.76	+24 30.7	1.524	2.473	7.6	19.9
1 22	8 45.91	+25 38.9	1.485	2.461	3.8	19.7
2 1	8 35.93	+26 40.8	1.474	2.450	4.1	19.7
2 11	8 26.22	+27 29.3	1.491	2.439	8.2	19.9
2 21	8 18.15	+28 0.8	1.533	2.428	12.5	20.1
3 2	8 12.74	+28 14.7	1.597	2.417	16.3	20.3

29722 1999 AQ_{23} 1 28.3 267°.40 1°.1/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.63	+11 3.9	1.925	2.713	14.8	18.2
1 2	8 59.74	+11 53.3	1.826	2.701	11.6	18.0
1 12	8 53.48	+13 0.0	1.750	2.689	7.7	17.7
1 22	8 45.36	+14 20.6	1.701	2.677	3.5	17.4
2 1	8 36.25	+15 49.3	1.681	2.664	1.8	17.3
2 11	8 27.29	+17 18.7	1.691	2.652	6.1	17.5
2 21	8 19.57	+18 42.1	1.729	2.639	10.4	17.8
3 2	8 13.99	+19 54.7	1.791	2.626	14.1	18.0

257272 2009 HH 1 28.3 225°.87 3°.7/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.05	+26 14.4	1.894	2.703	14.2	20.7
1 2	9 4.78	+26 59.2	1.808	2.696	11.0	20.4
1 12	8 56.76	+27 46.7	1.746	2.689	7.3	20.2
1 22	8 46.64	+28 30.4	1.710	2.682	4.2	20.0
2 1	8 35.53	+29 3.5	1.704	2.674	4.6	20.0
2 11	8 24.80	+29 21.5	1.726	2.666	8.0	20.2
2 21	8 15.70	+29 22.9	1.774	2.657	11.8	20.4
3 2	8 9.19	+29 9.0	1.846	2.649	15.1	20.6

144299 2004 DA_3 1 28.3 108°.35 2°.8/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.14	+ 6 16.2	1.898	2.666	15.7	20.2
1 2	9 0.63	+ 6 56.1	1.821	2.680	12.4	20.0
1 12	8 53.84	+ 7 55.4	1.766	2.693	8.7	19.8
1 22	8 45.42	+ 9 11.2	1.738	2.706	4.8	19.6
2 1	8 36.28	+10 38.2	1.739	2.718	2.9	19.5
2 11	8 27.53	+12 9.3	1.770	2.730	5.9	19.7
2 21	8 20.15	+13 37.6	1.830	2.742	9.7	19.9
3 2	8 14.92	+14 57.7	1.914	2.754	13.2	20.2

100315 1995 MZ_1 1 28.3 80°.19 0°.6/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.84	+16 5.7	1.930	2.724	14.5	19.5
1 2	9 2.52	+17 2.0	1.874	2.755	11.0	19.4
1 12	8 54.92	+18 8.3	1.841	2.785	7.0	19.2
1 22	8 45.79	+19 19.1	1.837	2.815	2.7	19.0
2 1	8 36.11	+20 28.0	1.862	2.844	1.9	18.9
2 11	8 27.01	+21 29.4	1.917	2.873	6.0	19.3
2 21	8 19.45	+22 19.7	2.001	2.902	9.7	19.6
3 2	8 14.12	+22 57.2	2.109	2.929	12.8	19.8

47712 2000 DB_{23} 1 28.3 51°.56 4°.5/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.32	+29 2.9	1.426	2.246	17.5	19.0
1 2	9 9.08	+29 15.2	1.372	2.264	13.5	18.8
1 12	8 59.47	+29 24.5	1.339	2.283	9.0	18.6
1 22	8 47.60	+29 23.8	1.331	2.302	5.2	18.5
2 1	8 35.09	+29 7.4	1.350	2.322	5.3	18.5
2 11	8 23.71	+28 34.0	1.397	2.342	9.0	18.8
2 21	8 14.84	+27 46.0	1.468	2.362	13.1	19.1
3 2	8 9.28	+26 47.5	1.561	2.382	16.6	19.3

273414 2006 WR_{10} 1 28.3 88°.33 0°.9/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.12	+16 22.6	1.327	2.139	19.0	20.2
1 2	9 6.90	+16 11.8	1.258	2.147	14.7	20.0
1 12	8 58.31	+16 12.0	1.210	2.155	9.6	19.7
1 22	8 47.27	+16 19.8	1.186	2.163	4.0	19.4
2 1	8 35.22	+16 30.6	1.188	2.171	2.2	19.3
2 11	8 23.92	+16 40.0	1.217	2.179	7.8	19.7
2 21	8 14.88	+16 44.9	1.272	2.187	12.9	20.0
3 2	8 9.09	+16 44.0	1.347	2.195	17.2	20.3

297796 2001 YM_{82} 1 28.3 0°.33 0°.4/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.79	+19 13.4	1.381	2.200	18.0	19.9
1 2	9 5.16	+19 6.5	1.305	2.199	13.9	19.7
1 12	8 57.25	+19 7.2	1.250	2.198	9.0	19.4
1 22	8 46.88	+19 11.6	1.219	2.198	3.5	19.1
2 1	8 35.43	+19 14.9	1.215	2.198	2.2	19.0
2 11	8 24.62	+19 13.3	1.238	2.199	7.8	19.3
2 21	8 15.92	+19 4.7	1.286	2.200	12.8	19.6
3 2	8 10.37	+18 48.8	1.355	2.201	17.2	19.9

336548 2009 BG_{142} 1 28.3 110°.69 1°.9/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.13	+24 15.9	2.699	3.493	10.9	21.3
1 2	9 1.47	+24 36.8	2.629	3.510	8.2	21.1
1 12	8 54.03	+24 58.8	2.585	3.527	5.3	20.9
1 22	8 45.41	+25 18.6	2.569	3.544	2.5	20.8
2 1	8 36.35	+25 32.8	2.585	3.561	2.5	20.8
2 11	8 27.72	+25 39.2	2.631	3.577	5.3	21.0
2 21	8 20.24	+25 37.1	2.706	3.592	8.1	21.2
3 2	8 14.50	+25 26.6	2.807	3.608	10.5	21.4

55144 2001 QK_{198} 1 28.3 116°.04 0°.4/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.74	+15 21.9	2.670	3.453	11.3	19.8
1 2	8 58.93	+15 42.0	2.593	3.466	8.6	19.7
1 12	8 52.44	+16 9.3	2.540	3.480	5.6	19.5
1 22	8 44.81	+16 41.1	2.517	3.494	2.3	19.3
2 1	8 36.71	+17 14.5	2.523	3.507	1.2	19.2
2 11	8 28.92	+17 46.3	2.561	3.519	4.5	19.5
2 21	8 22.15	+18 13.9	2.628	3.532	7.6	19.7
3 2	8 16.96	+18 35.9	2.722	3.544	10.2	19.9

362975 2013 CU_{33} 1 28.3 39°.43 4°.5/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.09	+28 30.7	1.524	2.341	16.7	20.9
1 2	9 8.33	+28 51.7	1.451	2.342	12.9	20.6
1 12	8 59.21	+29 11.5	1.399	2.343	8.8	20.4
1 22	8 47.62	+29 22.6	1.373	2.344	5.1	20.2
2 1	8 35.05	+29 18.5	1.374	2.345	5.3	20.2
2 11	8 23.24	+28 56.3	1.403	2.347	9.1	20.4
2 21	8 13.71	+28 17.1	1.457	2.348	13.3	20.6
3 2	8 7.42	+27 24.8	1.532	2.349	17.0	20.9

81730 2000 JZ_{37} 1 28.3 165°.05 4°.8/ 1.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.90	− 0 43.3	3.074	3.782	11.5	19.6
1 2	8 58.10	− 1 8.4	2.981	3.787	9.6	19.5
1 12	8 51.85	− 1 20.4	2.911	3.791	7.6	19.4
1 22	8 44.59	− 1 18.8	2.868	3.795	5.7	19.2
2 1	8 36.87	− 1 4.0	2.854	3.799	4.8	19.2
2 11	8 29.34	− 0 37.8	2.870	3.802	5.6	19.2
2 21	8 22.62	− 0 3.1	2.915	3.805	7.4	19.4
3 2	8 17.20	+ 0 36.8	2.987	3.807	9.5	19.5

363469 2003 SG_{276} 1 28.3 57°.38 0°.5/28.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.12	+17 59.8	1.420	2.236	17.7	21.8
1 2	9 4.28	+18 17.1	1.362	2.255	13.5	21.6
1 12	8 56.44	+18 44.5	1.325	2.273	8.7	21.4
1 22	8 46.49	+19 16.6	1.313	2.292	3.3	21.1
2 1	8 35.79	+19 47.6	1.328	2.311	2.2	21.1
2 11	8 25.89	+20 12.2	1.371	2.330	7.3	21.5
2 21	8 18.08	+20 27.6	1.438	2.350	11.9	21.8
3 2	8 13.19	+20 32.8	1.528	2.369	15.8	22.1

253251 2003 AZ_{46} 1 28.3 329°.07 2°.6/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.30	+21 19.7	1.541	2.366	16.1	20.1
1 2	9 0.90	+22 8.4	1.457	2.356	12.4	19.8
1 12	8 54.53	+23 6.7	1.396	2.346	8.0	19.5
1 22	8 45.87	+24 7.8	1.360	2.337	3.6	19.3
2 1	8 36.07	+25 4.0	1.350	2.329	3.7	19.2
2 11	8 26.62	+25 48.0	1.368	2.321	8.3	19.5
2 21	8 18.92	+26 16.1	1.411	2.314	12.8	19.7
3 2	8 14.02	+26 27.5	1.474	2.307	16.8	20.0

428962 2008 YD_{109} 1 28.3 46°.70 1°.2/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.12	+18 23.0	1.976	2.783	13.8	20.8
1 2	8 59.09	+19 16.3	1.908	2.797	10.4	20.6
1 12	8 52.86	+20 18.5	1.863	2.811	6.6	20.4
1 22	8 45.06	+21 24.1	1.846	2.825	2.6	20.2
2 1	8 36.60	+22 27.3	1.858	2.839	2.3	20.2
2 11	8 28.58	+23 22.5	1.900	2.854	6.2	20.5
2 21	8 21.92	+24 6.3	1.968	2.869	9.8	20.7
3 2	8 17.37	+24 37.2	2.060	2.884	13.0	20.9

47666 2000 CA_{58} 1 28.3 209°.08 2°.3/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.43	+24 46.7	2.357	3.157	12.0	18.9
1 2	9 2.14	+25 7.7	2.271	3.155	9.2	18.7
1 12	8 54.73	+25 30.4	2.209	3.153	6.0	18.5
1 22	8 45.79	+25 50.6	2.175	3.150	3.0	18.3
2 1	8 36.18	+26 4.2	2.171	3.147	3.0	18.3
2 11	8 26.92	+26 8.5	2.198	3.144	6.1	18.5
2 21	8 18.94	+26 2.5	2.252	3.141	9.4	18.7
3 2	8 12.95	+25 46.6	2.331	3.137	12.2	18.9

427195 2014 VT_{20} 1 28.3 163°.28 3°.2/26.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.73	+25 35.8	2.308	3.107	12.3	21.7
1 2	9 3.22	+26 31.9	2.230	3.113	9.4	21.5
1 12	8 55.47	+27 30.6	2.177	3.119	6.2	21.3
1 22	8 46.10	+28 26.0	2.152	3.123	3.5	21.2
2 1	8 36.01	+29 12.6	2.159	3.128	3.9	21.2
2 11	8 26.28	+29 46.1	2.195	3.131	6.8	21.4
2 21	8 17.88	+30 5.0	2.259	3.134	9.9	21.6
3 2	8 11.56	+30 9.8	2.347	3.136	12.7	21.8

74794 1999 SE_{12} 1 28.3 280°.25 11°.7/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.65	− 5 26.9	1.765	2.472	18.8	18.7
1 2	9 5.51	− 7 30.5	1.660	2.450	16.7	18.4
1 12	8 57.49	− 9 18.3	1.574	2.428	14.3	18.2
1 22	8 47.11	−10 42.9	1.512	2.406	12.4	18.0
2 1	8 35.31	−11 38.1	1.475	2.383	11.7	17.9
2 11	8 23.45	−12 1.1	1.464	2.360	12.7	17.9
2 21	8 12.91	−11 54.0	1.476	2.338	15.0	18.0
3 2	8 4.85	−11 23.0	1.510	2.314	17.8	18.1

16646 Sparrman 1 28.3 25°.58 3°.6/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.76	+25 10.6	1.341	2.168	17.9	17.2
1 2	9 6.08	+25 35.0	1.273	2.172	13.8	17.0
1 12	8 57.91	+26 2.5	1.227	2.176	9.1	16.7
1 22	8 47.18	+26 25.7	1.204	2.180	4.6	16.5
2 1	8 35.40	+26 37.3	1.208	2.185	4.6	16.5
2 11	8 24.42	+26 33.1	1.238	2.190	9.1	16.8
2 21	8 15.78	+26 12.7	1.292	2.195	13.7	17.1
3 2	8 10.50	+25 38.8	1.367	2.201	17.8	17.3

496601 2015 DA_{64} 1 28.3 47°.34 1°.3/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.12	+11 10.2	2.125	2.911	13.7	20.8
1 2	8 58.21	+11 45.7	2.042	2.915	10.6	20.6
1 12	8 52.27	+12 34.9	1.982	2.919	7.1	20.4
1 22	8 44.85	+13 34.8	1.948	2.923	3.3	20.2
2 1	8 36.75	+14 40.7	1.944	2.927	1.7	20.1
2 11	8 28.94	+15 47.4	1.970	2.931	5.3	20.3
2 21	8 22.31	+16 49.8	2.024	2.936	9.0	20.6
3 2	8 17.56	+17 44.4	2.104	2.940	12.3	20.8

221185 2005 UN_{29} 1 28.3 345°.74 2°.8/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.38	+10 16.9	1.760	2.550	15.9	20.0
1 2	9 0.36	+10 9.9	1.675	2.548	12.6	19.8
1 12	8 53.87	+10 17.1	1.611	2.546	8.7	19.6
1 22	8 45.54	+10 37.3	1.573	2.544	4.6	19.3
2 1	8 36.35	+11 7.6	1.562	2.542	3.0	19.2
2 11	8 27.51	+11 43.6	1.580	2.541	6.4	19.4
2 21	8 20.12	+12 20.6	1.624	2.540	10.5	19.6
3 2	8 15.03	+12 54.7	1.691	2.539	14.2	19.9

14339 Knorre 1 28.3 198°.35 1°.3/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.21	+18 26.4	2.255	3.049	12.7	17.3
1 2	9 1.38	+19 28.1	2.164	3.046	9.7	17.1
1 12	8 54.37	+20 39.1	2.098	3.042	6.2	16.9
1 22	8 45.71	+21 54.4	2.061	3.038	2.5	16.7
2 1	8 36.24	+23 7.9	2.054	3.034	2.3	16.6
2 11	8 26.97	+24 13.8	2.078	3.029	6.0	16.9
2 21	8 18.87	+25 8.4	2.131	3.023	9.6	17.1
3 2	8 12.75	+25 49.6	2.209	3.017	12.8	17.3

205463 2001 QP_{65} 1 28.3 70°.06 0°.2/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.82	+18 37.3	2.211	3.003	13.0	19.9
1 2	9 2.22	+18 40.1	2.148	3.028	9.9	19.7
1 12	8 54.62	+18 48.2	2.110	3.053	6.3	19.5
1 22	8 45.69	+18 58.6	2.100	3.078	2.4	19.3
2 1	8 36.34	+19 8.2	2.120	3.103	1.5	19.3
2 11	8 27.54	+19 14.4	2.170	3.127	5.3	19.6
2 21	8 20.12	+19 15.8	2.249	3.152	8.7	19.8
3 2	8 14.70	+19 11.7	2.353	3.176	11.6	20.1

496505 2014 UF_{87} 1 28.3 201°.28 8°.2/23.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.54	+38 33.0	1.951	2.753	14.1	21.5
1 2	9 7.78	+39 53.9	1.881	2.751	11.6	21.3
1 12	8 58.85	+41 8.0	1.835	2.748	9.3	21.1
1 22	8 47.55	+42 5.8	1.814	2.746	8.2	21.1
2 1	8 35.19	+42 39.0	1.821	2.743	8.9	21.1
2 11	8 23.39	+42 44.0	1.854	2.740	11.1	21.2
2 21	8 13.59	+42 22.0	1.912	2.736	13.7	21.4
3 2	8 6.79	+41 37.8	1.989	2.732	16.2	21.6

274735 2008 UF_{201} 1 28.3 160°.89 5°.4/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.57	+33 18.4	2.244	3.047	12.5	20.8
1 2	9 4.05	+34 8.4	2.170	3.049	9.8	20.6
1 12	8 56.08	+34 54.8	2.121	3.051	7.2	20.5
1 22	8 46.36	+35 31.3	2.098	3.052	5.5	20.4
2 1	8 35.91	+35 52.1	2.105	3.054	6.0	20.4
2 11	8 25.94	+35 54.5	2.140	3.055	8.3	20.6
2 21	8 17.51	+35 38.6	2.202	3.056	11.0	20.7
3 2	8 11.40	+35 6.9	2.286	3.057	13.5	20.9

246367 2007 TF_{392} 1 28.3 184°.26 0°.4/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.80	+15 12.3	2.054	2.840	14.1	22.1
1 2	9 3.43	+15 34.9	1.965	2.841	10.9	21.9
1 12	8 55.71	+16 7.6	1.900	2.841	7.1	21.7
1 22	8 46.25	+16 47.0	1.863	2.840	2.9	21.4
2 1	8 35.97	+17 28.7	1.855	2.838	1.6	21.3
2 11	8 26.01	+18 8.1	1.878	2.836	5.9	21.6
2 21	8 17.40	+18 41.7	1.929	2.833	9.8	21.8
3 2	8 10.97	+19 7.3	2.005	2.830	13.2	22.0

501455 2014 AW_{42} 1 28.3 100°.00 3°.3/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.35	+25 59.9	2.348	3.153	11.9	21.1
1 2	9 0.58	+27 0.7	2.278	3.165	9.1	20.9
1 12	8 53.74	+28 3.7	2.233	3.176	6.0	20.7
1 22	8 45.42	+29 3.1	2.217	3.187	3.6	20.6
2 1	8 36.48	+29 53.4	2.231	3.198	4.0	20.6
2 11	8 27.91	+30 30.8	2.274	3.209	6.7	20.8
2 21	8 20.60	+30 53.4	2.345	3.219	9.6	21.0
3 2	8 15.26	+31 1.8	2.440	3.230	12.2	21.2

87823 2000 SA_{167} 1 28.3 95°.79 2°.4/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.50	+11 2.5	2.023	2.801	14.6	19.9
1 2	9 2.22	+10 50.1	1.950	2.816	11.4	19.7
1 12	8 54.77	+10 49.1	1.900	2.832	7.8	19.5
1 22	8 45.81	+10 58.0	1.877	2.847	4.1	19.3
2 1	8 36.27	+11 14.4	1.883	2.862	2.6	19.2
2 11	8 27.20	+11 34.9	1.918	2.877	5.7	19.5
2 21	8 19.53	+11 56.4	1.981	2.891	9.3	19.7
3 2	8 13.94	+12 16.2	2.070	2.906	12.5	19.9

273754 2007 EA_{141} 1 28.3 113°.59 3°.0/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.53	+ 8 27.9	1.993	2.768	14.8	21.2
1 2	9 0.14	+ 8 26.3	1.909	2.771	11.8	21.0
1 12	8 53.56	+ 8 39.1	1.847	2.775	8.3	20.8
1 22	8 45.39	+ 9 5.1	1.811	2.778	4.7	20.6
2 1	8 36.49	+ 9 41.6	1.804	2.781	3.1	20.5
2 11	8 27.93	+10 24.2	1.825	2.784	5.9	20.7
2 21	8 20.65	+11 8.6	1.874	2.787	9.5	20.9
3 2	8 15.42	+11 50.7	1.948	2.790	12.9	21.1

142062 2002 QR_{32} 1 28.3 226°.90 1°.3/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.01	+12 13.0	1.959	2.745	14.7	20.7
1 2	9 1.49	+12 39.5	1.864	2.737	11.5	20.4
1 12	8 54.59	+13 19.9	1.791	2.729	7.7	20.2
1 22	8 45.85	+14 11.4	1.745	2.721	3.5	19.9
2 1	8 36.19	+15 9.3	1.729	2.712	1.8	19.8
2 11	8 26.75	+16 8.1	1.742	2.702	6.0	20.0
2 21	8 18.60	+17 2.6	1.783	2.692	10.1	20.3
3 2	8 12.62	+17 49.4	1.848	2.682	13.8	20.5

30994 1995 UE_{2} 1 28.3 153°.41 0°.8/29.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.10	+13 37.5	2.953	3.727	10.5	20.0
1 2	8 58.34	+13 53.9	2.866	3.734	8.1	19.8
1 12	8 52.07	+14 17.9	2.805	3.741	5.3	19.6
1 22	8 44.72	+14 47.3	2.772	3.747	2.4	19.4
2 1	8 36.92	+15 19.6	2.771	3.753	1.3	19.4
2 11	8 29.35	+15 51.8	2.801	3.759	4.1	19.6
2 21	8 22.66	+16 21.7	2.860	3.764	7.0	19.8
3 2	8 17.38	+16 47.3	2.947	3.769	9.5	20.0

290765 2005 UB_{514} 1 28.3 78°.70 3°.2/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.55	+25 14.0	1.839	2.651	14.4	21.4
1 2	9 3.53	+25 51.4	1.767	2.658	11.0	21.1
1 12	8 55.87	+26 31.4	1.719	2.664	7.2	20.9
1 22	8 46.33	+27 8.0	1.697	2.671	3.8	20.7
2 1	8 35.99	+27 35.2	1.703	2.677	4.1	20.8
2 11	8 26.21	+27 49.0	1.739	2.683	7.6	21.0
2 21	8 18.10	+27 48.2	1.800	2.690	11.2	21.2
3 2	8 12.52	+27 34.1	1.884	2.696	14.5	21.4

116892 2004 FF_{132} 1 28.3 148°.60 2°.2/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.96	+22 28.7	1.787	2.587	15.3	20.3
1 2	9 7.66	+23 0.5	1.713	2.598	11.7	20.1
1 12	8 58.53	+23 37.0	1.663	2.608	7.5	19.8
1 22	8 47.37	+24 12.4	1.640	2.617	3.4	19.6
2 1	8 35.39	+24 40.6	1.647	2.625	3.2	19.6
2 11	8 24.00	+24 57.3	1.683	2.633	7.3	19.9
2 21	8 14.46	+25 1.1	1.746	2.639	11.3	20.1
3 2	8 7.63	+24 52.9	1.833	2.645	14.8	20.4

130697 2000 SP_{153} 1 28.3 62°.30 2°.4/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.03	+21 10.3	1.359	2.181	18.1	20.1
1 2	9 5.87	+21 52.9	1.310	2.206	13.7	19.9
1 12	8 57.50	+22 43.1	1.281	2.230	8.7	19.7
1 22	8 46.95	+23 33.1	1.278	2.256	3.7	19.4
2 1	8 35.68	+24 15.1	1.301	2.281	3.5	19.5
2 11	8 25.38	+24 43.6	1.352	2.306	8.2	19.8
2 21	8 17.35	+24 56.7	1.427	2.331	12.6	20.2
3 2	8 12.44	+24 55.5	1.524	2.356	16.4	20.5

495226 2013 GP_{86} 1 28.3 252°.43 4°.4/25.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.53	+25 4.4	1.690	2.509	15.2	21.1
1 2	9 3.25	+26 23.1	1.610	2.504	11.7	20.8
1 12	8 56.02	+27 48.6	1.553	2.499	7.8	20.6
1 22	8 46.50	+29 12.1	1.523	2.494	4.7	20.4
2 1	8 35.84	+30 24.4	1.520	2.489	5.4	20.4
2 11	8 25.53	+31 18.3	1.546	2.483	9.0	20.6
2 21	8 16.94	+31 50.7	1.597	2.478	13.0	20.8
3 2	8 11.12	+32 2.3	1.669	2.472	16.4	21.1

504276 2006 WX_{59} 1 28.3 229°.35 9°.3/ 5.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.24	−16 40.5	3.016	3.616	13.6	21.7
1 2	8 57.85	−17 39.1	2.915	3.607	12.4	21.5
1 12	8 51.87	−18 18.8	2.832	3.597	11.1	21.4
1 22	8 44.70	−18 36.7	2.771	3.587	10.0	21.3
2 1	8 36.92	−18 30.7	2.734	3.577	9.4	21.3
2 11	8 29.24	−18 1.4	2.722	3.566	9.4	21.3
2 21	8 22.33	−17 11.6	2.735	3.555	10.2	21.3
3 2	8 16.78	−16 5.9	2.772	3.544	11.4	21.4

197769 2004 PX_{39} 1 28.3 195°.08 1°.4/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.66	+20 40.5	1.737	2.540	15.5	20.7
1 2	9 6.10	+20 58.4	1.653	2.539	11.9	20.4
1 12	8 57.66	+21 22.7	1.591	2.537	7.7	20.2
1 22	8 47.09	+21 48.3	1.557	2.535	3.1	19.9
2 1	8 35.53	+22 10.0	1.551	2.532	2.6	19.8
2 11	8 24.44	+22 23.4	1.574	2.528	7.2	20.1
2 21	8 15.09	+22 26.5	1.623	2.525	11.5	20.4
3 2	8 8.44	+22 19.2	1.696	2.520	15.3	20.6

428084 2006 KT_{71} 1 28.3 248°.64 1°.2/29.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.97	+12 8.1	2.293	3.075	12.9	21.8
1 2	8 58.81	+12 31.5	2.197	3.068	10.1	21.6
1 12	8 52.67	+13 6.5	2.125	3.061	6.7	21.4
1 22	8 45.06	+13 50.9	2.080	3.054	3.1	21.1
2 1	8 36.72	+14 40.8	2.065	3.047	1.7	21.0
2 11	8 28.59	+15 32.0	2.080	3.040	5.2	21.2
2 21	8 21.53	+16 20.4	2.123	3.032	8.8	21.4
3 2	8 16.25	+17 2.8	2.192	3.025	12.0	21.6

399916 2005 YW_{7} 1 28.3 330°.40 3°.5/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 23.91	+31 9.8	1.099	1.924	21.2	19.0
1 2	9 17.63	+29 57.3	1.004	1.899	17.0	18.6
1 12	9 6.26	+28 26.4	0.929	1.875	11.6	18.2
1 22	8 50.79	+26 29.1	0.877	1.853	5.7	17.8
2 1	8 33.34	+24 2.3	0.851	1.832	4.5	17.7
2 11	8 16.80	+21 12.3	0.853	1.812	10.7	17.9
2 21	8 3.66	+18 13.1	0.879	1.794	17.2	18.2
3 2	7 55.38	+15 18.7	0.927	1.778	22.8	18.5

187846 1999 XK_{135} 1 28.3 89°.63 1°.0/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.37	+17 0.6	1.442	2.249	18.0	19.9
1 2	9 6.72	+17 51.3	1.388	2.276	13.7	19.7
1 12	8 58.01	+18 54.2	1.355	2.302	8.7	19.5
1 22	8 47.17	+20 2.1	1.349	2.327	3.3	19.2
2 1	8 35.58	+21 6.7	1.370	2.352	2.5	19.2
2 11	8 24.84	+22 1.1	1.420	2.376	7.5	19.6
2 21	8 16.25	+22 41.4	1.495	2.400	12.1	19.9
3 2	8 10.65	+23 6.7	1.593	2.423	15.8	20.2

300094 2006 UC_{248} 1 28.3 205°.15 4°.0/31.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.86	+ 2 9.9	3.072	3.797	11.2	22.0
1 2	8 57.41	+ 1 59.8	2.969	3.792	9.2	21.9
1 12	8 51.51	+ 2 1.9	2.890	3.787	7.0	21.7
1 22	8 44.55	+ 2 16.3	2.838	3.781	4.9	21.6
2 1	8 37.09	+ 2 42.2	2.816	3.775	4.0	21.5
2 11	8 29.77	+ 3 17.1	2.824	3.768	5.0	21.6
2 21	8 23.21	+ 3 58.3	2.862	3.761	7.2	21.7
3 2	8 17.94	+ 4 42.4	2.926	3.754	9.4	21.8

420987 2013 PN_{34} 1 28.3 116°.03 2°.4/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.55	+10 38.0	1.980	2.762	14.7	21.8
1 2	9 0.95	+10 33.6	1.897	2.765	11.6	21.6
1 12	8 54.11	+10 41.7	1.836	2.769	7.9	21.4
1 22	8 45.64	+11 0.9	1.802	2.772	4.2	21.2
2 1	8 36.46	+11 28.3	1.796	2.775	2.6	21.1
2 11	8 27.63	+12 0.1	1.819	2.779	5.8	21.3
2 21	8 20.13	+12 32.3	1.870	2.782	9.6	21.5
3 2	8 14.73	+13 1.9	1.945	2.785	13.0	21.7

365792 2011 AV_{23} 1 28.3 139°.32 1°.4/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.56	+13 47.7	1.954	2.744	14.5	20.9
1 2	9 1.78	+13 44.7	1.869	2.745	11.3	20.7
1 12	8 54.67	+13 51.8	1.808	2.747	7.5	20.4
1 22	8 45.88	+14 6.9	1.773	2.748	3.5	20.2
2 1	8 36.32	+14 27.0	1.767	2.749	1.9	20.1
2 11	8 27.15	+14 48.3	1.790	2.751	5.8	20.3
2 21	8 19.36	+15 7.8	1.841	2.752	9.8	20.6
3 2	8 13.75	+15 23.1	1.916	2.753	13.3	20.8

265350 2004 RG_{59} 1 28.3 138°.65 0°.3/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.27	+16 44.4	2.124	2.915	13.5	21.0
1 2	9 2.12	+16 51.3	2.042	2.921	10.4	20.8
1 12	8 54.78	+17 5.6	1.984	2.926	6.7	20.6
1 22	8 45.89	+17 24.4	1.954	2.931	2.7	20.4
2 1	8 36.33	+17 44.4	1.953	2.936	1.5	20.3
2 11	8 27.17	+18 2.2	1.982	2.941	5.5	20.6
2 21	8 19.34	+18 15.3	2.039	2.945	9.3	20.8
3 2	8 13.57	+18 22.5	2.122	2.950	12.5	21.0

207730 2007 RG_{174} 1 28.3 62°.94 4°.9/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.61	+31 11.5	2.132	2.941	12.8	20.1
1 2	9 2.57	+32 4.2	2.067	2.952	10.0	20.0
1 12	8 55.14	+32 54.7	2.026	2.962	7.1	19.8
1 22	8 46.04	+33 36.6	2.013	2.973	5.1	19.7
2 1	8 36.27	+34 4.2	2.028	2.984	5.6	19.8
2 11	8 27.02	+34 14.3	2.072	2.994	8.1	19.9
2 21	8 19.33	+34 7.1	2.141	3.005	10.9	20.1
3 2	8 13.93	+33 44.4	2.234	3.016	13.5	20.3

459706 2013 PR_{25} 1 28.3 190°.53 3°.2/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.07	+ 8 16.8	2.365	3.123	13.2	21.5
1 2	9 1.77	+ 7 55.3	2.271	3.122	10.6	21.3
1 12	8 54.49	+ 7 44.7	2.200	3.121	7.5	21.1
1 22	8 45.78	+ 7 44.8	2.156	3.119	4.5	20.9
2 1	8 36.40	+ 7 54.3	2.142	3.116	3.3	20.8
2 11	8 27.27	+ 8 10.8	2.159	3.113	5.5	21.0
2 21	8 19.25	+ 8 31.2	2.204	3.110	8.7	21.2
3 2	8 13.04	+ 8 52.9	2.275	3.106	11.7	21.4

489997 2008 SR_{191} 1 28.3 160°.53 5°.1/25.6 18

12 23	9 12.34	+28 1.3	1.619	2.434	15.9	21.8
1 2	9 6.98	+29 5.1	1.547	2.438	12.3	21.6
1 12	8 58.42	+30 10.9	1.499	2.441	8.4	21.4
1 22	8 47.45	+31 9.7	1.476	2.444	5.4	21.2
2 1	8 35.42	+31 52.8	1.482	2.446	6.0	21.3
2 11	8 23.99	+32 14.8	1.514	2.448	9.5	21.5
2 21	8 14.61	+32 14.9	1.572	2.450	13.3	21.7
3 2	8 8.29	+31 55.9	1.651	2.451	16.7	21.9

378525 2007 VV_{177} 1 28.3 20°.38 9°.1/ 3.7 18

12 23	8 59.79	− 5 50.5	1.687	2.418	18.8	20.2
1 2	8 56.83	− 6 32.3	1.619	2.429	16.1	20.0
1 12	8 51.57	− 6 47.2	1.568	2.441	13.3	19.9
1 22	8 44.67	− 6 32.8	1.539	2.454	10.7	19.8
2 1	8 37.06	− 5 49.1	1.533	2.468	9.2	19.7
2 11	8 29.88	− 4 40.6	1.553	2.482	9.7	19.8
2 21	8 24.11	− 3 15.0	1.597	2.498	11.7	19.9
3 2	8 20.52	− 1 41.0	1.665	2.515	14.3	20.1

498075 2007 RB_{172} 1 28.3 162°.95 5°.0/24.8 18

12 23	9 9.92	+34 7.8	2.598	3.392	11.2	21.6
1 2	9 4.00	+34 52.1	2.523	3.396	8.8	21.5
1 12	8 55.92	+35 32.2	2.474	3.400	6.5	21.3
1 22	8 46.32	+36 2.8	2.453	3.403	5.0	21.2
2 1	8 36.11	+36 19.1	2.461	3.406	5.5	21.3
2 11	8 26.34	+36 18.8	2.499	3.409	7.5	21.4
2 21	8 17.92	+36 2.3	2.564	3.411	9.9	21.6
3 2	8 11.55	+35 31.5	2.653	3.413	12.1	21.7

63168 2000 YH_{20} 1 28.3 283°.24 1°.1/28.9 18

12 23	9 6.76	+14 0.0	1.590	2.393	16.7	19.9
1 2	9 2.55	+14 10.0	1.505	2.389	13.1	19.6
1 12	8 55.51	+14 33.6	1.442	2.384	8.7	19.4
1 22	8 46.32	+15 7.6	1.403	2.380	3.8	19.1
2 1	8 36.08	+15 47.3	1.392	2.376	2.0	18.9
2 11	8 26.20	+16 27.0	1.409	2.371	6.9	19.2
2 21	8 18.00	+17 2.1	1.452	2.367	11.6	19.5
3 2	8 12.45	+17 29.3	1.518	2.363	15.7	19.7

292811 2006 UY_{252} 1 28.3 217°.33 1°.6/29.7 17

12 23	9 2.50	+10 57.4	2.931	3.697	10.8	22.4
1 2	8 58.00	+11 4.9	2.829	3.689	8.4	22.2
1 12	8 51.94	+11 21.3	2.752	3.682	5.8	22.0
1 22	8 44.75	+11 45.3	2.703	3.674	3.0	21.8
2 1	8 37.02	+12 14.6	2.686	3.666	1.8	21.7
2 11	8 29.44	+12 46.5	2.699	3.657	4.3	21.9
2 21	8 22.68	+13 18.5	2.742	3.648	7.2	22.0
3 2	8 17.30	+13 48.1	2.811	3.639	9.8	22.2

175935 2000 EX_{52} 1 28.3 341°.00 0°.5/28.1 18

12 23	9 6.01	+17 50.8	1.548	2.364	16.5	20.9
1 2	9 2.07	+18 7.4	1.467	2.360	12.7	20.6
1 12	8 55.23	+18 34.2	1.408	2.356	8.3	20.4
1 22	8 46.21	+19 7.0	1.373	2.352	3.2	20.1
2 1	8 36.16	+19 40.2	1.366	2.349	2.1	20.0
2 11	8 26.55	+20 8.3	1.386	2.346	7.2	20.3
2 21	8 18.69	+20 27.8	1.432	2.344	11.9	20.6
3 2	8 13.56	+20 37.0	1.499	2.342	16.0	20.8

102369 1999 TC_{142} 1 28.3 165°.90 1°.5/29.3 18

12 23	9 8.16	+12 0.8	2.166	2.940	13.8	20.8
1 2	9 2.77	+12 16.2	2.079	2.946	10.8	20.6
1 12	8 55.22	+12 43.1	2.017	2.951	7.2	20.4
1 22	8 46.09	+13 19.0	1.982	2.956	3.4	20.2
2 1	8 36.25	+14 0.3	1.977	2.959	1.9	20.1
2 11	8 26.74	+14 42.8	2.003	2.962	5.5	20.3
2 21	8 18.50	+15 22.6	2.058	2.964	9.2	20.5
3 2	8 12.27	+15 56.9	2.138	2.966	12.4	20.8

432433 2010 BV_{75} 1 28.3 167°.10 0°.1/28.4 17

12 23	9 6.61	+18 5.1	2.820	3.601	10.8	21.3
1 2	9 1.09	+18 0.0	2.730	3.604	8.3	21.1
1 12	8 53.88	+17 59.0	2.666	3.606	5.3	21.0
1 22	8 45.50	+18 0.1	2.631	3.609	2.1	20.7
2 1	8 36.63	+18 1.2	2.628	3.611	1.2	20.7
2 11	8 28.05	+18 0.4	2.656	3.613	4.5	20.9
2 21	8 20.49	+17 56.4	2.714	3.614	7.5	21.1
3 2	8 14.50	+17 48.8	2.798	3.615	10.1	21.3

284693 2008 SR_{89} 1 28.3 154°.58 0°.6/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.52	+18 11.9	1.541	2.349	16.9	21.3
1 2	9 5.48	+18 27.7	1.464	2.352	13.0	21.0
1 12	8 57.40	+18 53.0	1.408	2.355	8.4	20.8
1 22	8 47.06	+19 23.3	1.378	2.357	3.3	20.5
2 1	8 35.71	+19 52.7	1.376	2.359	2.2	20.4
2 11	8 24.90	+20 16.1	1.402	2.361	7.3	20.7
2 21	8 16.00	+20 30.5	1.453	2.362	12.1	21.0
3 2	8 9.99	+20 34.9	1.528	2.364	16.1	21.3

433839 2015 BM_{250} 1 28.3 322°.06 0°.7/27.9 16

12 23	9 4.59	+18 41.9	2.118	2.919	13.2	21.4
1 2	9 0.22	+19 4.5	2.032	2.917	10.1	21.2
1 12	8 53.66	+19 34.2	1.969	2.915	6.5	21.0
1 22	8 45.51	+20 7.3	1.934	2.913	2.5	20.7
2 1	8 36.63	+20 39.5	1.929	2.911	1.8	20.7
2 11	8 28.06	+21 6.9	1.952	2.909	5.8	20.9
2 21	8 20.77	+21 26.8	2.003	2.907	9.5	21.2
3 2	8 15.50	+21 38.0	2.079	2.905	12.8	21.4

136648 1995 GQ_2 1 28.3 94°.01 0°.8/27.8 18

12 23	9 6.21	+17 53.5	1.830	2.635	14.8	20.6
1 2	9 1.73	+18 29.6	1.753	2.640	11.3	20.4
1 12	8 54.76	+19 15.2	1.699	2.645	7.3	20.2
1 22	8 45.97	+20 5.6	1.672	2.650	2.8	19.9
2 1	8 36.37	+20 55.0	1.673	2.655	2.1	19.9
2 11	8 27.20	+21 38.0	1.703	2.660	6.5	20.2
2 21	8 19.54	+22 11.1	1.761	2.665	10.6	20.4
3 2	8 14.22	+22 32.8	1.841	2.670	14.1	20.7

366212 2012 TT_{23} 1 28.3 219°.39 1°.0/27.7 18

12 23	9 6.25	+20 58.0	2.473	3.267	11.7	20.8
1 2	9 1.17	+21 9.6	2.382	3.263	9.0	20.6
1 12	8 54.12	+21 25.0	2.315	3.259	5.8	20.3
1 22	8 45.66	+21 41.0	2.277	3.255	2.3	20.1
2 1	8 36.56	+21 54.4	2.269	3.250	1.9	20.1
2 11	8 27.76	+22 2.4	2.292	3.246	5.3	20.3
2 21	8 20.10	+22 3.6	2.343	3.241	8.6	20.5
3 2	8 14.24	+21 57.5	2.420	3.236	11.5	20.7

183937 2004 DG_{22} 1 28.3 342°.29 2°.6/26.9 18

12 23	9 4.38	+21 12.5	1.431	2.260	16.9	19.7
1 2	9 1.17	+21 59.6	1.352	2.253	13.0	19.5
1 12	8 54.86	+22 56.7	1.295	2.246	8.4	19.2
1 22	8 46.14	+23 56.7	1.263	2.241	3.8	18.9
2 1	8 36.25	+24 51.4	1.257	2.235	3.8	18.9
2 11	8 26.80	+25 33.6	1.277	2.231	8.5	19.2
2 21	8 19.23	+25 59.2	1.321	2.227	13.2	19.4
3 2	8 14.62	+26 7.7	1.386	2.224	17.3	19.7

490641 2010 EJ_{68} 1 28.3 261°.65 2°.8/29.9 18

12 23	9 5.94	+ 8 46.6	1.633	2.420	17.1	22.0
1 2	9 2.00	+ 9 4.2	1.535	2.406	13.6	21.7
1 12	8 55.27	+ 9 41.5	1.458	2.392	9.5	21.4
1 22	8 46.31	+10 36.7	1.406	2.377	5.0	21.1
2 1	8 36.12	+11 45.5	1.382	2.362	3.0	21.0
2 11	8 26.08	+13 0.8	1.385	2.347	7.0	21.2
2 21	8 17.52	+14 15.4	1.415	2.331	11.7	21.4
3 2	8 11.51	+15 23.1	1.468	2.316	16.0	21.6

293595 2007 JS_{30} 1 28.3 175°.85 1°.3/27.5 18

12 23	9 10.28	+19 21.0	2.117	2.909	13.5	21.7
1 2	9 4.58	+20 6.3	2.032	2.912	10.3	21.5
1 12	8 56.49	+20 59.2	1.972	2.915	6.6	21.3
1 22	8 46.65	+21 54.9	1.939	2.917	2.7	21.0
2 1	8 35.99	+22 47.5	1.938	2.918	2.4	21.0
2 11	8 25.65	+23 32.0	1.966	2.918	6.3	21.3
2 21	8 16.69	+24 5.4	2.024	2.917	10.0	21.5
3 2	8 9.94	+24 26.8	2.106	2.915	13.3	21.7

158158 2001 OP_{94} 1 28.3 109°.87 0°.5/27.8 17

12 23	9 0.33	+18 48.2	3.807	4.589	8.2	21.3
1 2	8 55.95	+19 19.9	3.733	4.609	6.2	21.2
1 12	8 50.42	+19 55.3	3.686	4.628	3.9	21.0
1 22	8 44.11	+20 32.0	3.669	4.647	1.5	20.9
2 1	8 37.49	+21 7.6	3.685	4.666	1.2	20.8
2 11	8 31.08	+21 39.9	3.732	4.685	3.5	21.1
2 21	8 25.36	+22 7.2	3.809	4.703	5.7	21.2
3 2	8 20.72	+22 28.7	3.913	4.720	7.7	21.4

275287 2010 CV_{142} 1 28.3 183°.08 0°.1/28.4 18

12 23	9 4.09	+16 8.3	2.440	3.228	12.0	21.0
1 2	8 59.53	+16 32.2	2.351	3.228	9.2	20.8
1 12	8 53.08	+17 4.1	2.286	3.228	6.0	20.6
1 22	8 45.26	+17 40.9	2.250	3.228	2.4	20.4
2 1	8 36.82	+18 19.1	2.244	3.227	1.4	20.3
2 11	8 28.64	+18 54.9	2.269	3.227	5.0	20.5
2 21	8 21.52	+19 25.5	2.322	3.226	8.4	20.8
3 2	8 16.14	+19 49.0	2.400	3.225	11.4	20.9

31572 1999 FM_{22} 1 28.3 126°.51 1°.5/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.21	+13 34.4	1.785	2.571	15.9	18.0
1 2	9 5.41	+13 33.7	1.711	2.585	12.3	17.8
1 12	8 57.05	+13 44.1	1.661	2.598	8.2	17.5
1 22	8 46.85	+14 3.2	1.636	2.611	3.7	17.3
2 1	8 35.92	+14 27.0	1.641	2.624	2.0	17.2
2 11	8 25.55	+14 51.6	1.676	2.636	6.2	17.5
2 21	8 16.85	+15 13.6	1.737	2.647	10.4	17.8
3 2	8 10.62	+15 30.6	1.823	2.657	14.0	18.0

28780 Lisadeaver 1 28.3 100°.29 0°.7/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.05	+14 55.4	1.590	2.388	17.0	19.3
1 2	9 5.54	+15 11.7	1.526	2.407	13.1	19.1
1 12	8 57.22	+15 40.1	1.483	2.426	8.5	18.9
1 22	8 46.93	+16 16.4	1.467	2.444	3.5	18.6
2 1	8 35.89	+16 55.2	1.478	2.462	1.8	18.5
2 11	8 25.54	+17 31.2	1.519	2.479	6.7	18.9
2 21	8 17.07	+18 0.6	1.585	2.496	11.1	19.2
3 2	8 11.32	+18 21.5	1.676	2.512	14.9	19.5

159131 2004 WF_2 1 28.3 218°.83 2°.9/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.26	+ 8 24.1	2.453	3.213	12.8	20.9
1 2	9 0.41	+ 8 14.6	2.352	3.206	10.2	20.7
1 12	8 53.67	+ 8 16.4	2.275	3.198	7.2	20.5
1 22	8 45.51	+ 8 28.8	2.225	3.190	4.2	20.3
2 1	8 36.67	+ 8 50.1	2.205	3.181	3.0	20.2
2 11	8 28.02	+ 9 17.6	2.216	3.172	5.3	20.4
2 21	8 20.37	+ 9 48.0	2.255	3.162	8.4	20.5
3 2	8 14.42	+10 18.3	2.320	3.152	11.4	20.7

242442 2004 PL_{58} 1 28.3 91°.23 0°.1/28.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.99	+17 6.1	1.625	2.421	16.7	21.1
1 2	9 7.57	+17 16.3	1.568	2.449	12.8	20.9
1 12	8 58.38	+17 35.6	1.534	2.477	8.2	20.7
1 22	8 47.33	+17 59.4	1.526	2.504	3.2	20.4
2 1	8 35.70	+18 22.9	1.547	2.530	1.8	20.4
2 11	8 24.89	+18 42.0	1.597	2.556	6.6	20.8
2 21	8 16.08	+18 54.1	1.674	2.581	10.9	21.1
3 2	8 10.03	+18 58.6	1.775	2.605	14.5	21.3

340688 2006 RY_{120} 1 28.3 174°.65 1°.4/29.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.84	+11 53.5	2.717	3.490	11.4	21.6
1 2	8 58.35	+12 2.2	2.626	3.491	8.9	21.4
1 12	8 52.21	+12 19.9	2.559	3.492	6.0	21.2
1 22	8 44.89	+12 44.9	2.520	3.493	2.9	21.0
2 1	8 37.05	+13 14.8	2.512	3.493	1.7	20.9
2 11	8 29.43	+13 46.5	2.535	3.494	4.5	21.1
2 21	8 22.73	+14 17.3	2.586	3.494	7.5	21.3
3 2	8 17.54	+14 45.0	2.664	3.494	10.2	21.5

232942 2005 CV_{18} 1 28.3 42°.80 1°.0/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.62	+11 45.0	1.909	2.702	14.7	20.9
1 2	8 58.84	+12 27.5	1.832	2.709	11.4	20.7
1 12	8 52.84	+13 24.8	1.778	2.717	7.6	20.5
1 22	8 45.22	+14 33.3	1.750	2.726	3.3	20.2
2 1	8 36.87	+15 47.2	1.751	2.734	1.7	20.1
2 11	8 28.88	+17 0.2	1.781	2.743	5.8	20.4
2 21	8 22.22	+18 7.0	1.839	2.752	9.7	20.7
3 2	8 17.64	+19 3.7	1.922	2.761	13.1	20.9

457848 2009 SS_{147} 1 28.3 167°.77 0°.1/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.57	+17 9.6	2.024	2.819	13.9	21.3
1 2	9 2.53	+17 16.6	1.940	2.820	10.7	21.1
1 12	8 55.17	+17 31.1	1.879	2.821	7.0	20.8
1 22	8 46.14	+17 50.1	1.845	2.823	2.8	20.6
2 1	8 36.36	+18 10.0	1.840	2.823	1.6	20.5
2 11	8 26.96	+18 27.2	1.865	2.824	5.8	20.8
2 21	8 18.95	+18 39.3	1.918	2.825	9.7	21.0
3 2	8 13.10	+18 44.9	1.996	2.825	13.1	21.2

496116 2009 WA_{263} 1 28.3 148°.67 2°.6/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.00	+ 8 14.6	2.664	3.417	12.0	22.2
1 2	9 0.68	+ 8 11.1	2.579	3.429	9.6	22.1
1 12	8 53.67	+ 8 18.4	2.518	3.439	6.7	21.9
1 22	8 45.47	+ 8 35.3	2.485	3.449	3.9	21.7
2 1	8 36.76	+ 9 0.0	2.482	3.458	2.7	21.7
2 11	8 28.34	+ 9 29.6	2.511	3.466	4.8	21.8
2 21	8 20.92	+10 1.1	2.569	3.474	7.6	22.0
3 2	8 15.09	+10 31.9	2.654	3.481	10.3	22.2

191144 2002 GH_{113} 1 28.3 247°.70 4°.0/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.92	+ 3 56.8	2.199	2.952	14.3	20.7
1 2	8 58.89	+ 4 6.1	2.099	2.943	11.6	20.5
1 12	8 52.83	+ 4 32.8	2.021	2.934	8.6	20.3
1 22	8 45.23	+ 5 16.4	1.969	2.925	5.5	20.0
2 1	8 36.86	+ 6 14.6	1.945	2.916	4.0	19.9
2 11	8 28.65	+ 7 22.7	1.951	2.906	5.9	20.0
2 21	8 21.50	+ 8 35.4	1.985	2.897	9.2	20.2
3 2	8 16.17	+ 9 47.2	2.045	2.887	12.4	20.4

459374 2012 JF_{38} 1 28.3 266°.36 5°.9/31.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.46	+ 1 16.1	2.107	2.847	15.2	21.9
1 2	9 0.23	+ 0 48.3	1.999	2.829	12.7	21.7
1 12	8 53.80	+ 0 37.7	1.912	2.811	9.9	21.5
1 22	8 45.66	+ 0 45.8	1.851	2.793	7.2	21.3
2 1	8 36.60	+ 1 12.4	1.816	2.774	5.9	21.2
2 11	8 27.62	+ 1 54.9	1.811	2.755	7.3	21.2
2 21	8 19.73	+ 2 48.5	1.832	2.736	10.3	21.4
3 2	8 13.75	+ 3 47.9	1.878	2.717	13.4	21.5

426561 2013 RV_{93} 1 28.3 99°.37 0°.2/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.61	+16 12.5	2.126	2.919	13.4	21.4
1 2	9 0.87	+16 28.7	2.047	2.927	10.3	21.2
1 12	8 54.02	+16 53.4	1.993	2.935	6.7	21.0
1 22	8 45.66	+17 23.2	1.966	2.943	2.7	20.8
2 1	8 36.66	+17 54.5	1.968	2.951	1.5	20.7
2 11	8 28.05	+18 23.3	2.000	2.959	5.5	21.0
2 21	8 20.73	+18 46.9	2.060	2.967	9.1	21.2
3 2	8 15.41	+19 3.5	2.145	2.974	12.3	21.5

206801 2004 DQ_{48} 1 28.3 215°.04 2°.2/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.88	+24 51.5	2.479	3.278	11.6	20.4
1 2	9 1.68	+25 10.9	2.392	3.275	8.8	20.2
1 12	8 54.48	+25 31.8	2.329	3.273	5.8	20.0
1 22	8 45.83	+25 50.2	2.295	3.270	2.9	19.8
2 1	8 36.56	+26 2.4	2.292	3.267	2.9	19.8
2 11	8 27.62	+26 5.8	2.318	3.264	5.8	20.0
2 21	8 19.88	+25 59.4	2.373	3.261	9.0	20.1
3 2	8 14.01	+25 43.7	2.452	3.258	11.7	20.3

16368 Città di Alba 1 28.3 4°.29 3°.0/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.55	+26 53.5	2.019	2.827	13.5	17.3
1 2	9 3.36	+27 2.8	1.939	2.827	10.4	17.1
1 12	8 55.72	+27 11.6	1.884	2.828	6.9	16.8
1 22	8 46.35	+27 15.3	1.855	2.828	3.6	16.6
2 1	8 36.28	+27 9.9	1.856	2.830	3.7	16.7
2 11	8 26.73	+26 53.1	1.885	2.831	6.9	16.9
2 21	8 18.74	+26 24.8	1.941	2.833	10.4	17.1
3 2	8 13.08	+25 46.9	2.021	2.835	13.6	17.3

229918 1995 CJ_{10} 1 28.3 270°.41 4°.9/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.37	+30 35.7	2.003	2.807	13.7	20.3
1 2	9 6.75	+31 12.9	1.903	2.785	10.8	20.1
1 12	8 58.24	+31 49.1	1.827	2.764	7.6	19.9
1 22	8 47.48	+32 17.2	1.778	2.741	5.2	19.7
2 1	8 35.58	+32 30.6	1.757	2.719	5.6	19.6
2 11	8 23.95	+32 25.4	1.766	2.696	8.7	19.8
2 21	8 13.93	+32 1.2	1.801	2.673	12.2	19.9
3 2	8 6.56	+31 20.6	1.858	2.649	15.5	20.1

519961 2013 TT_{84} 1 28.3 195°.31 0°.5/28.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.69	+16 13.1	2.181	2.970	13.2	22.1
1 2	9 1.72	+16 17.4	2.092	2.969	10.2	21.9
1 12	8 54.60	+16 29.2	2.027	2.968	6.7	21.7
1 22	8 45.92	+16 46.1	1.990	2.967	2.8	21.4
2 1	8 36.52	+17 4.9	1.982	2.965	1.5	21.3
2 11	8 27.45	+17 22.2	2.004	2.963	5.5	21.6
2 21	8 19.63	+17 35.7	2.055	2.961	9.2	21.8
3 2	8 13.81	+17 43.8	2.130	2.959	12.4	22.0

139845 2001 RR_{50} 1 28.3 20°.28 1°.3/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.90	+17 38.7	1.149	1.990	19.4	18.1
1 2	8 59.50	+18 23.3	1.096	2.002	14.8	17.8
1 12	8 53.79	+19 22.2	1.062	2.016	9.4	17.6
1 22	8 45.70	+20 28.1	1.052	2.031	3.7	17.3
2 1	8 36.68	+21 31.7	1.066	2.048	2.9	17.3
2 11	8 28.46	+22 24.6	1.104	2.066	8.4	17.7
2 21	8 22.45	+23 1.9	1.166	2.086	13.4	18.0
3 2	8 19.58	+23 22.2	1.248	2.106	17.6	18.3

255865 2006 SL_{182} 1 28.3 31°.48 2°.8/27.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.13	+23 11.3	1.493	2.316	16.7	20.9
1 2	9 3.75	+23 42.2	1.425	2.322	12.7	20.7
1 12	8 56.32	+24 18.5	1.379	2.328	8.3	20.4
1 22	8 46.67	+24 53.4	1.358	2.335	3.8	20.2
2 1	8 36.11	+25 20.3	1.365	2.343	3.8	20.2
2 11	8 26.21	+25 34.3	1.398	2.350	8.1	20.5
2 21	8 18.31	+25 33.8	1.456	2.359	12.5	20.7
3 2	8 13.33	+25 19.8	1.536	2.367	16.3	21.0

382250 2012 TL_{16} 1 28.4 24°.38 3°.6/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.60	+ 5 37.3	2.255	3.017	13.7	20.5
1 2	8 57.73	+ 5 35.7	2.168	3.019	11.0	20.3
1 12	8 51.98	+ 5 48.9	2.103	3.021	8.0	20.1
1 22	8 44.88	+ 6 16.2	2.065	3.024	5.0	19.9
2 1	8 37.15	+ 6 55.5	2.055	3.027	3.7	19.8
2 11	8 29.69	+ 7 43.0	2.074	3.030	5.6	19.9
2 21	8 23.30	+ 8 34.3	2.121	3.033	8.6	20.1
3 2	8 18.64	+ 9 25.2	2.193	3.036	11.6	20.3

252357 2001 SA_{207} 1 28.4 80°.85 0°.6/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.44	+17 49.2	1.778	2.582	15.2	21.0
1 2	9 2.65	+18 15.8	1.708	2.594	11.6	20.8
1 12	8 55.34	+18 51.4	1.661	2.607	7.4	20.6
1 22	8 46.23	+19 31.3	1.641	2.619	2.9	20.4
2 1	8 36.39	+20 10.4	1.649	2.631	2.0	20.3
2 11	8 27.08	+20 43.6	1.686	2.644	6.4	20.6
2 21	8 19.39	+21 8.0	1.749	2.656	10.5	20.9
3 2	8 14.10	+21 22.4	1.837	2.668	14.0	21.1

446287 2014 DF_{59} 1 28.4 212°.34 2°.7/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.69	+21 19.6	1.530	2.345	16.7	21.7
1 2	9 5.90	+22 12.2	1.448	2.341	12.9	21.4
1 12	8 57.90	+23 14.4	1.389	2.337	8.4	21.1
1 22	8 47.40	+24 18.8	1.355	2.332	3.8	20.9
2 1	8 35.66	+25 17.0	1.349	2.327	3.8	20.8
2 11	8 24.33	+26 1.5	1.370	2.321	8.5	21.1
2 21	8 14.91	+26 28.8	1.417	2.315	13.1	21.3
3 2	8 8.53	+26 38.8	1.486	2.309	17.2	21.6

420931 2013 NA_{22} 1 28.4 28°.21 3°.5/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.16	+27 38.5	1.932	2.743	13.9	20.0
1 2	9 3.90	+27 55.0	1.860	2.748	10.7	19.8
1 12	8 56.10	+28 10.8	1.810	2.754	7.1	19.6
1 22	8 46.51	+28 20.6	1.788	2.760	4.0	19.4
2 1	8 36.25	+28 19.8	1.794	2.766	4.2	19.5
2 11	8 26.57	+28 6.1	1.829	2.773	7.3	19.7
2 21	8 18.57	+27 39.6	1.891	2.780	10.8	19.9
3 2	8 13.01	+27 2.3	1.976	2.787	13.9	20.1

205813 2002 CR_{208} 1 28.4 250°.42 1°.0/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.57	+12 51.2	1.761	2.555	15.7	20.7
1 2	9 2.32	+13 21.3	1.664	2.542	12.3	20.5
1 12	8 55.40	+14 6.9	1.589	2.530	8.2	20.2
1 22	8 46.38	+15 4.5	1.540	2.517	3.6	19.9
2 1	8 36.24	+16 9.0	1.520	2.503	1.8	19.7
2 11	8 26.28	+17 13.5	1.529	2.490	6.6	20.0
2 21	8 17.75	+18 12.4	1.564	2.476	11.2	20.2
3 2	8 11.64	+19 1.5	1.624	2.461	15.2	20.4

452565 2005 AW_{65} 1 28.4 27°.67 0°.4/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.94	+14 50.9	1.272	2.096	18.9	21.4
1 2	9 1.62	+15 17.3	1.208	2.103	14.6	21.1
1 12	8 55.11	+15 59.8	1.163	2.112	9.5	20.9
1 22	8 46.25	+16 53.5	1.142	2.121	3.9	20.6
2 1	8 36.39	+17 50.9	1.147	2.130	2.1	20.5
2 11	8 27.18	+18 44.3	1.177	2.141	7.7	20.9
2 21	8 20.04	+19 28.0	1.232	2.152	12.8	21.2
3 2	8 15.95	+19 58.8	1.308	2.164	17.1	21.5

56643 2000 KY_{29} 1 28.4 196°.61 2°.8/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.18	+10 1.3	1.847	2.624	15.8	19.5
1 2	9 4.02	+ 9 55.0	1.757	2.622	12.5	19.3
1 12	8 56.31	+10 2.4	1.689	2.619	8.7	19.0
1 22	8 46.68	+10 22.5	1.646	2.616	4.7	18.8
2 1	8 36.12	+10 52.2	1.633	2.612	3.0	18.7
2 11	8 25.87	+11 27.4	1.648	2.608	6.4	18.9
2 21	8 17.07	+12 3.7	1.691	2.602	10.5	19.1
3 2	8 10.62	+12 37.4	1.759	2.597	14.2	19.3

183463 2003 BH_{60} 1 28.4 357°.30 0°.8/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.26	+14 19.5	1.577	2.386	16.6	20.2
1 2	9 0.65	+14 37.7	1.497	2.385	12.9	19.9
1 12	8 54.31	+15 9.8	1.439	2.383	8.5	19.7
1 22	8 45.92	+15 52.1	1.405	2.383	3.6	19.4
2 1	8 36.56	+16 39.4	1.399	2.382	1.8	19.2
2 11	8 27.62	+17 25.6	1.420	2.382	6.8	19.6
2 21	8 20.31	+18 5.7	1.467	2.383	11.4	19.8
3 2	8 15.57	+18 36.6	1.536	2.384	15.4	20.1

284722 2008 UT_{33} 1 28.4 174°.02 0°.1/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.02	+16 1.6	1.786	2.581	15.5	22.2
1 2	9 4.76	+16 30.1	1.703	2.584	12.0	21.9
1 12	8 56.82	+17 9.8	1.643	2.586	7.8	21.7
1 22	8 46.89	+17 56.4	1.610	2.588	3.1	21.4
2 1	8 36.02	+18 44.3	1.606	2.589	1.8	21.3
2 11	8 25.55	+19 28.0	1.631	2.589	6.6	21.6
2 21	8 16.68	+20 3.4	1.683	2.589	10.9	21.9
3 2	8 10.31	+20 28.7	1.760	2.588	14.6	22.1

235488 2004 BJ_{67} 1 28.4 49°.73 0°.2/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.56	+17 24.3	2.088	2.887	13.4	20.5
1 2	9 0.16	+17 43.2	2.010	2.893	10.3	20.3
1 12	8 53.62	+18 9.9	1.955	2.899	6.6	20.1
1 22	8 45.54	+18 41.0	1.927	2.906	2.6	19.8
2 1	8 36.82	+19 12.3	1.929	2.912	1.6	19.8
2 11	8 28.47	+19 40.1	1.960	2.918	5.6	20.0
2 21	8 21.42	+20 1.6	2.018	2.925	9.3	20.3
3 2	8 16.39	+20 15.2	2.101	2.932	12.5	20.5

321956 2010 UA_{11} 1 28.4 146°.88 6°.4/23.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.69	+35 18.7	2.221	3.019	12.8	21.1
1 2	9 6.62	+36 38.6	2.156	3.029	10.2	20.9
1 12	8 57.91	+37 54.0	2.117	3.038	7.8	20.8
1 22	8 47.28	+38 56.9	2.106	3.047	6.5	20.7
2 1	8 35.84	+39 40.5	2.123	3.056	7.1	20.8
2 11	8 24.89	+40 1.2	2.169	3.064	9.2	20.9
2 21	8 15.60	+39 59.5	2.240	3.071	11.7	21.1
3 2	8 8.82	+39 38.5	2.333	3.077	14.0	21.3

290377 2005 SU_{284} 1 28.4 61°.92 5°.1/ 1.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.06	+ 1 22.4	1.817	2.572	16.8	20.9
1 2	8 59.26	+ 1 35.4	1.738	2.581	13.8	20.7
1 12	8 53.17	+ 2 11.1	1.680	2.589	10.3	20.6
1 22	8 45.42	+ 3 9.0	1.645	2.598	6.9	20.4
2 1	8 36.92	+ 4 25.7	1.639	2.606	5.1	20.3
2 11	8 28.77	+ 5 54.7	1.660	2.615	6.8	20.4
2 21	8 21.98	+ 7 28.3	1.709	2.624	10.2	20.6
3 2	8 17.32	+ 8 59.5	1.783	2.633	13.5	20.8

466283 2013 PJ_{17} 1 28.4 158°.76 0°.8/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.87	+20 9.2	2.281	3.073	12.7	22.0
1 2	9 3.27	+20 20.1	2.198	3.078	9.7	21.8
1 12	8 55.54	+20 35.5	2.139	3.082	6.2	21.6
1 22	8 46.30	+20 52.1	2.109	3.087	2.5	21.3
2 1	8 36.43	+21 6.3	2.109	3.090	1.8	21.3
2 11	8 26.94	+21 15.2	2.139	3.094	5.5	21.6
2 21	8 18.75	+21 17.3	2.198	3.097	9.1	21.8
3 2	8 12.57	+21 12.1	2.282	3.099	12.1	22.0

433102 2012 TG_{105} 1 28.4 254°.24 0°.7/28.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.75	+14 53.3	2.405	3.192	12.2	21.7
1 2	8 59.35	+15 3.7	2.311	3.186	9.5	21.5
1 12	8 53.04	+15 22.5	2.242	3.181	6.2	21.2
1 22	8 45.34	+15 47.2	2.199	3.176	2.7	21.0
2 1	8 36.99	+16 14.9	2.187	3.170	1.4	20.9
2 11	8 28.86	+16 42.3	2.205	3.165	5.0	21.1
2 21	8 21.80	+17 6.5	2.251	3.159	8.4	21.3
3 2	8 16.46	+17 25.7	2.323	3.154	11.5	21.5

209019 2003 DF_{21} 1 28.4 340°.03 5°.2/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.83	+31 47.2	1.918	2.733	13.8	19.8
1 2	9 3.21	+32 19.9	1.836	2.724	10.9	19.6
1 12	8 55.87	+32 49.6	1.777	2.715	7.7	19.4
1 22	8 46.53	+33 9.8	1.745	2.707	5.5	19.2
2 1	8 36.32	+33 14.7	1.740	2.699	5.9	19.2
2 11	8 26.59	+33 1.2	1.763	2.693	8.7	19.4
2 21	8 18.54	+32 29.7	1.811	2.686	12.0	19.6
3 2	8 13.06	+31 43.1	1.881	2.681	15.0	19.7

92843 2000 QP_{194} 1 28.4 346°.76 4°.8/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.30	+ 4 18.5	1.695	2.470	17.0	18.9
1 2	8 58.95	+ 4 14.4	1.609	2.466	13.9	18.7
1 12	8 53.15	+ 4 31.0	1.543	2.463	10.2	18.5
1 22	8 45.49	+ 5 8.3	1.501	2.460	6.6	18.2
2 1	8 36.92	+ 6 3.5	1.486	2.457	4.8	18.1
2 11	8 28.64	+ 7 11.2	1.498	2.456	7.1	18.2
2 21	8 21.76	+ 8 24.5	1.536	2.454	10.8	18.5
3 2	8 17.18	+ 9 36.6	1.597	2.453	14.5	18.7

493558 2015 KQ_{5} 1 28.4 14°.88 2°.4/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.36	+10 37.1	1.948	2.736	14.6	20.3
1 2	8 58.61	+10 32.6	1.868	2.740	11.5	20.1
1 12	8 52.70	+10 40.9	1.810	2.744	7.9	19.8
1 22	8 45.23	+11 0.5	1.778	2.749	4.2	19.6
2 1	8 37.09	+11 28.7	1.774	2.754	2.6	19.5
2 11	8 29.31	+12 1.4	1.799	2.760	5.7	19.7
2 21	8 22.81	+12 34.7	1.850	2.766	9.4	20.0
3 2	8 18.34	+13 5.2	1.926	2.773	12.8	20.2

247966 2003 YQ_{148} 1 28.4 50°.29 7°.4/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.88	+34 1.8	1.461	2.282	17.1	19.5
1 2	9 8.42	+34 57.7	1.407	2.295	13.5	19.3
1 12	8 59.43	+35 47.5	1.375	2.308	9.9	19.2
1 22	8 47.95	+36 21.4	1.367	2.322	7.6	19.1
2 1	8 35.61	+36 31.1	1.385	2.336	8.1	19.1
2 11	8 24.29	+36 14.1	1.428	2.351	11.0	19.3
2 21	8 15.49	+35 33.1	1.496	2.365	14.4	19.6
3 2	8 10.11	+34 33.8	1.584	2.380	17.5	19.8

88966 2001 TC_{56} 1 28.4 185°.28 0°.5/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.04	+16 57.2	1.921	2.721	14.4	20.2
1 2	9 1.59	+17 33.0	1.837	2.721	11.0	20.0
1 12	8 54.73	+18 19.0	1.777	2.721	7.1	19.7
1 22	8 46.08	+19 10.8	1.743	2.721	2.8	19.5
2 1	8 36.60	+20 3.1	1.738	2.721	1.8	19.4
2 11	8 27.44	+20 50.3	1.762	2.720	6.2	19.7
2 21	8 19.67	+21 28.7	1.814	2.719	10.3	19.9
3 2	8 14.15	+21 56.3	1.890	2.719	13.8	20.1

226792 2004 RH_{180} 1 28.4 188°.26 1°.0/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.62	+14 20.7	2.204	2.988	13.3	20.7
1 2	9 1.66	+14 25.2	2.115	2.988	10.3	20.5
1 12	8 54.60	+14 38.8	2.049	2.987	6.8	20.2
1 22	8 45.98	+14 59.0	2.011	2.986	3.0	20.0
2 1	8 36.67	+15 23.0	2.002	2.985	1.6	19.9
2 11	8 27.65	+15 47.1	2.024	2.983	5.4	20.1
2 21	8 19.85	+16 8.5	2.073	2.981	9.0	20.4
3 2	8 13.99	+16 25.2	2.148	2.979	12.3	20.6

447342 2005 YK_{148} 1 28.4 30°.59 3°.6/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.72	+22 24.1	1.354	2.183	17.7	20.6
1 2	9 3.90	+23 31.5	1.286	2.186	13.6	20.3
1 12	8 56.73	+24 48.7	1.239	2.189	8.8	20.1
1 22	8 46.99	+26 6.4	1.216	2.192	4.4	19.8
2 1	8 36.09	+27 14.5	1.220	2.196	4.8	19.9
2 11	8 25.76	+28 4.8	1.250	2.199	9.3	20.1
2 21	8 17.57	+28 33.9	1.304	2.203	13.9	20.4
3 2	8 12.58	+28 42.4	1.379	2.208	17.9	20.7

304946 2007 TS_{9} 1 28.4 108°.01 0°.8/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.71	+18 19.2	1.781	2.580	15.4	21.7
1 2	9 5.11	+18 49.6	1.715	2.598	11.7	21.5
1 12	8 56.91	+19 28.3	1.672	2.616	7.5	21.2
1 22	8 46.90	+20 10.5	1.656	2.634	2.9	21.0
2 1	8 36.19	+20 50.4	1.669	2.651	2.1	21.0
2 11	8 26.08	+21 23.2	1.711	2.667	6.5	21.3
2 21	8 17.69	+21 46.2	1.781	2.683	10.6	21.6
3 2	8 11.80	+21 58.7	1.874	2.699	14.0	21.8

294385 2007 VO_{148} 1 28.4 359°.52 6°.0/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.90	+27 23.1	1.316	2.154	17.6	19.9
1 2	9 2.76	+28 42.1	1.249	2.152	13.6	19.6
1 12	8 56.12	+30 5.7	1.203	2.151	9.4	19.4
1 22	8 46.79	+31 23.3	1.182	2.150	6.2	19.2
2 1	8 36.20	+32 23.6	1.185	2.151	7.1	19.3
2 11	8 26.22	+32 59.2	1.214	2.152	10.9	19.5
2 21	8 18.47	+33 8.3	1.265	2.154	15.1	19.7
3 2	8 14.09	+32 53.6	1.336	2.156	18.9	20.0

502756 2015 DX_{58} 1 28.4 250°.11 0°.2/28.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.14	+16 12.0	2.409	3.198	12.1	21.7
1 2	8 59.70	+16 30.4	2.312	3.189	9.4	21.5
1 12	8 53.32	+16 56.7	2.239	3.180	6.1	21.2
1 22	8 45.49	+17 28.3	2.194	3.171	2.5	21.0
2 1	8 36.96	+18 1.6	2.179	3.162	1.4	20.9
2 11	8 28.63	+18 33.0	2.194	3.152	5.1	21.1
2 21	8 21.36	+18 59.6	2.237	3.143	8.6	21.3
3 2	8 15.83	+19 19.8	2.306	3.133	11.7	21.5

236686 2006 RG_{91} 1 28.4 229°.56 1°.8/29.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.93	+10 23.9	2.891	3.654	10.9	21.8
1 2	8 58.44	+10 32.7	2.785	3.643	8.6	21.6
1 12	8 52.35	+10 51.0	2.703	3.632	5.9	21.4
1 22	8 45.07	+11 17.4	2.650	3.620	3.1	21.2
2 1	8 37.21	+11 49.8	2.628	3.607	1.9	21.1
2 11	8 29.48	+12 25.4	2.636	3.595	4.4	21.3
2 21	8 22.56	+13 1.2	2.675	3.582	7.3	21.4
3 2	8 17.04	+13 34.7	2.740	3.568	10.0	21.6

517578 2014 UW_{134} 1 28.4 128°.29 0°.8/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.76	+14 6.8	2.359	3.134	12.8	22.3
1 2	9 2.99	+14 21.5	2.284	3.152	9.9	22.1
1 12	8 55.27	+14 45.0	2.234	3.170	6.5	21.9
1 22	8 46.20	+15 14.5	2.212	3.188	2.8	21.7
2 1	8 36.60	+15 46.5	2.221	3.204	1.4	21.7
2 11	8 27.41	+16 17.6	2.261	3.220	5.0	21.9
2 21	8 19.46	+16 45.0	2.331	3.235	8.4	22.2
3 2	8 13.38	+17 7.0	2.426	3.249	11.3	22.4

328340 2008 KV_{1} 1 28.4 88°.93 0°.7/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.42	+16 56.7	1.869	2.672	14.6	20.8
1 2	9 1.14	+17 41.8	1.791	2.677	11.2	20.6
1 12	8 54.45	+18 37.7	1.736	2.682	7.2	20.4
1 22	8 45.98	+19 39.5	1.709	2.687	2.8	20.1
2 1	8 36.70	+20 41.1	1.710	2.692	2.0	20.1
2 11	8 27.80	+21 36.6	1.740	2.697	6.3	20.3
2 21	8 20.34	+22 21.8	1.797	2.702	10.4	20.6
3 2	8 15.14	+22 54.7	1.878	2.707	13.8	20.8

302518 2002 JE_{78} 1 28.4 302°.32 0°.2/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.04	+17 14.5	1.485	2.301	17.1	20.3
1 2	9 3.18	+17 26.4	1.396	2.288	13.3	20.0
1 12	8 56.22	+17 49.6	1.328	2.275	8.7	19.7
1 22	8 46.83	+18 20.1	1.284	2.262	3.5	19.4
2 1	8 36.18	+18 52.4	1.267	2.250	2.1	19.2
2 11	8 25.84	+19 20.8	1.277	2.238	7.5	19.5
2 21	8 17.28	+19 41.2	1.312	2.226	12.6	19.8
3 2	8 11.62	+19 51.6	1.368	2.215	17.0	20.0

490159 2008 UE_{222} 1 28.4 92°.33 4°.7/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.23	+27 20.2	1.523	2.339	16.7	21.2
1 2	9 8.36	+28 12.7	1.466	2.357	12.9	20.9
1 12	8 59.26	+29 6.2	1.432	2.375	8.6	20.7
1 22	8 47.88	+29 52.0	1.423	2.393	5.2	20.6
2 1	8 35.69	+30 22.1	1.442	2.410	5.6	20.7
2 11	8 24.38	+30 32.5	1.488	2.427	9.1	20.9
2 21	8 15.33	+30 23.3	1.560	2.444	13.0	21.2
3 2	8 9.42	+29 57.8	1.653	2.461	16.4	21.4

293308 2007 DT_{37} 1 28.4 297°.77 1°.6/27.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.06	+21 13.6	1.819	2.629	14.7	21.2
1 2	9 2.67	+21 32.6	1.726	2.616	11.3	21.0
1 12	8 55.60	+21 57.7	1.656	2.603	7.3	20.7
1 22	8 46.50	+22 24.3	1.612	2.590	3.1	20.4
2 1	8 36.39	+22 47.3	1.597	2.578	2.6	20.4
2 11	8 26.58	+23 2.2	1.610	2.565	7.0	20.6
2 21	8 18.28	+23 6.8	1.650	2.553	11.2	20.8
3 2	8 12.44	+23 0.6	1.712	2.541	15.0	21.0

53648 2000 DF_{28} 1 28.4 202°.55 0°.1/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.15	+16 17.4	1.828	2.622	15.3	20.3
1 2	9 4.92	+16 43.9	1.738	2.618	11.8	20.1
1 12	8 57.01	+17 21.4	1.671	2.614	7.7	19.9
1 22	8 47.05	+18 5.7	1.631	2.608	3.1	19.6
2 1	8 36.08	+18 51.4	1.619	2.603	1.8	19.4
2 11	8 25.41	+19 33.1	1.638	2.596	6.6	19.7
2 21	8 16.27	+20 6.8	1.684	2.589	10.9	20.0
3 2	8 9.60	+20 30.5	1.753	2.581	14.7	20.2

298883 2004 SN_{39} 1 28.4 169°.77 3°.9/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.49	+26 19.2	1.859	2.665	14.6	20.7
1 2	9 6.73	+27 11.3	1.782	2.668	11.2	20.5
1 12	8 58.14	+28 5.9	1.729	2.672	7.5	20.3
1 22	8 47.47	+28 56.0	1.704	2.674	4.3	20.1
2 1	8 35.87	+29 34.4	1.707	2.676	4.7	20.1
2 11	8 24.76	+29 56.4	1.739	2.678	8.1	20.3
2 21	8 15.40	+30 0.9	1.798	2.678	11.8	20.5
3 2	8 8.71	+29 49.5	1.880	2.679	15.0	20.7

286061 2001 SC_{300} 1 28.4 49°.29 4°.1/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.20	+ 4 39.5	2.147	2.906	14.4	20.8
1 2	8 58.26	+ 4 36.1	2.067	2.915	11.6	20.6
1 12	8 52.37	+ 4 48.8	2.009	2.924	8.5	20.4
1 22	8 45.10	+ 5 17.0	1.977	2.934	5.5	20.3
2 1	8 37.24	+ 5 58.3	1.973	2.943	4.1	20.2
2 11	8 29.69	+ 6 48.8	1.998	2.953	5.9	20.3
2 21	8 23.29	+ 7 43.6	2.050	2.963	8.9	20.5
3 2	8 18.71	+ 8 38.2	2.128	2.973	11.8	20.7

184463 2005 NS_{81} 1 28.4 29°.34 0°.3/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.74	+16 41.0	1.600	2.411	16.3	20.4
1 2	9 1.74	+17 8.1	1.525	2.415	12.5	20.2
1 12	8 55.01	+17 46.8	1.472	2.419	8.1	19.9
1 22	8 46.25	+18 32.5	1.445	2.424	3.2	19.6
2 1	8 36.59	+19 19.2	1.445	2.428	1.9	19.6
2 11	8 27.40	+20 1.1	1.473	2.433	6.9	19.9
2 21	8 19.91	+20 33.9	1.527	2.439	11.4	20.2
3 2	8 15.01	+20 55.7	1.603	2.444	15.2	20.4

461247 2015 WJ_{16} 1 28.4 72°.76 3°.2/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.20	+21 35.3	1.429	2.251	17.3	20.6
1 2	9 4.69	+22 46.7	1.370	2.266	13.2	20.3
1 12	8 57.03	+24 7.1	1.333	2.282	8.5	20.1
1 22	8 47.07	+25 27.5	1.322	2.298	4.1	19.9
2 1	8 36.18	+26 38.2	1.337	2.313	4.3	19.9
2 11	8 26.00	+27 31.9	1.380	2.329	8.7	20.2
2 21	8 17.90	+28 5.6	1.448	2.345	13.0	20.5
3 2	8 12.84	+28 19.8	1.537	2.360	16.7	20.8

236153 2005 UC_{233} 1 28.4 28°.76 0°.2/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.25	+15 38.8	1.077	1.914	20.8	20.2
1 2	9 2.32	+16 7.0	1.021	1.924	16.0	19.9
1 12	8 55.81	+16 52.5	0.984	1.935	10.3	19.7
1 22	8 46.65	+17 49.1	0.968	1.948	4.1	19.3
2 1	8 36.43	+18 48.0	0.977	1.961	2.3	19.3
2 11	8 27.04	+19 40.4	1.011	1.975	8.5	19.7
2 21	8 20.07	+20 20.4	1.067	1.991	13.9	20.0
3 2	8 16.53	+20 45.4	1.143	2.007	18.5	20.4

121056 1999 CA_{80} 1 28.4 273°.34 1°.2/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.74	+15 49.4	1.616	2.416	16.7	19.6
1 2	9 5.85	+15 32.3	1.516	2.398	13.1	19.4
1 12	8 57.90	+15 24.0	1.438	2.380	8.8	19.1
1 22	8 47.53	+15 22.6	1.385	2.362	3.9	18.7
2 1	8 35.85	+15 25.0	1.360	2.343	2.1	18.6
2 11	8 24.39	+15 27.5	1.363	2.324	7.2	18.8
2 21	8 14.59	+15 27.6	1.392	2.305	12.2	19.1
3 2	8 7.58	+15 23.7	1.444	2.286	16.6	19.3

355974 2009 AD_{20} 1 28.4 219°.66 0°.2/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.31	+17 41.8	1.872	2.667	14.9	21.4
1 2	9 5.01	+17 53.1	1.779	2.660	11.5	21.2
1 12	8 57.06	+18 12.6	1.709	2.653	7.5	20.9
1 22	8 47.10	+18 36.8	1.667	2.645	3.0	20.6
2 1	8 36.15	+19 1.2	1.653	2.636	1.8	20.5
2 11	8 25.51	+19 21.6	1.669	2.627	6.5	20.8
2 21	8 16.38	+19 35.1	1.712	2.617	10.8	21.0
3 2	8 9.69	+19 40.6	1.779	2.607	14.5	21.2

420683 2012 KD_{25} 1 28.4 270°.47 0°.3/28.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.78	+12 51.6	1.973	2.764	14.4	21.0
1 2	8 59.93	+13 51.6	1.877	2.756	11.1	20.8
1 12	8 53.76	+15 7.6	1.806	2.747	7.3	20.5
1 22	8 45.79	+16 35.2	1.761	2.738	3.0	20.2
2 1	8 36.88	+18 8.0	1.746	2.730	1.6	20.1
2 11	8 28.13	+19 38.5	1.761	2.721	6.0	20.4
2 21	8 20.60	+21 0.5	1.805	2.712	10.2	20.6
3 2	8 15.16	+22 9.7	1.873	2.703	13.8	20.8

238740 2005 GS_{130} 1 28.4 270°.77 6°.5/ 3.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.27	− 5 20.8	2.424	3.124	14.4	20.5
1 2	8 57.52	− 5 17.2	2.318	3.113	12.4	20.3
1 12	8 51.95	− 4 52.2	2.233	3.102	10.0	20.2
1 22	8 45.01	− 4 4.5	2.172	3.091	7.8	20.0
2 1	8 37.36	− 2 55.2	2.139	3.080	6.5	19.9
2 11	8 29.83	− 1 28.1	2.134	3.069	7.1	19.9
2 21	8 23.22	+ 0 11.0	2.158	3.057	9.2	20.0
3 2	8 18.22	+ 1 55.2	2.209	3.046	11.7	20.2

429893 2012 TB_{70} 1 28.4 169°.13 2°.2/26.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.56	+24 17.5	2.757	3.552	10.6	21.8
1 2	9 0.54	+24 52.7	2.673	3.555	8.1	21.7
1 12	8 53.74	+25 30.1	2.615	3.558	5.3	21.5
1 22	8 45.66	+26 5.9	2.586	3.560	2.7	21.3
2 1	8 37.02	+26 36.0	2.588	3.562	2.8	21.3
2 11	8 28.66	+26 57.7	2.620	3.564	5.4	21.5
2 21	8 21.34	+27 9.4	2.681	3.565	8.2	21.7
3 2	8 15.67	+27 11.1	2.768	3.566	10.7	21.8

443874 2001 TV_{141} 1 28.4 89°.50 2°.2/27.2 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.90	+20 26.5	1.540	2.349	16.9	21.8
1 2	9 7.11	+21 21.3	1.486	2.375	12.8	21.6
1 12	8 58.35	+22 24.1	1.455	2.401	8.2	21.4
1 22	8 47.54	+23 27.2	1.450	2.427	3.5	21.2
2 1	8 36.02	+24 22.7	1.473	2.452	3.3	21.2
2 11	8 25.31	+25 4.8	1.525	2.477	7.7	21.5
2 21	8 16.67	+25 31.0	1.603	2.501	11.9	21.8
3 2	8 10.94	+25 42.0	1.704	2.524	15.4	22.1

291781 2006 KE_{39} 1 28.4 222°.52 1°.0/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.91	+18 29.0	2.083	2.876	13.6	21.8
1 2	9 3.78	+19 8.0	1.985	2.866	10.5	21.5
1 12	8 56.22	+19 55.8	1.911	2.855	6.8	21.3
1 22	8 46.78	+20 48.2	1.865	2.843	2.7	21.0
2 1	8 36.36	+21 39.4	1.849	2.830	2.1	20.9
2 11	8 26.13	+22 24.4	1.863	2.817	6.3	21.2
2 21	8 17.20	+22 59.5	1.905	2.803	10.3	21.4
3 2	8 10.44	+23 23.2	1.972	2.788	13.8	21.6

216848 2007 TC_{58} 1 28.4 331°.04 4°.5/30.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.96	+ 7 17.3	1.501	2.291	18.2	20.0
1 2	9 1.36	+ 6 59.3	1.416	2.286	14.7	19.8
1 12	8 54.92	+ 7 0.0	1.352	2.281	10.6	19.5
1 22	8 46.31	+ 7 19.7	1.311	2.276	6.4	19.3
2 1	8 36.63	+ 7 55.8	1.296	2.272	4.5	19.1
2 11	8 27.28	+ 8 43.3	1.308	2.268	7.5	19.3
2 21	8 19.58	+ 9 35.8	1.344	2.264	11.9	19.5
3 2	8 14.53	+10 27.2	1.404	2.261	16.0	19.8

425691 2011 AO_{59} 1 28.4 57°.22 1°.9/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.06	+14 33.8	1.827	2.616	15.4	21.2
1 2	9 4.60	+14 0.9	1.747	2.621	12.0	21.0
1 12	8 56.64	+13 36.0	1.689	2.627	8.1	20.8
1 22	8 46.88	+13 18.0	1.658	2.632	3.9	20.6
2 1	8 36.36	+13 5.3	1.656	2.637	2.3	20.5
2 11	8 26.35	+12 55.6	1.683	2.643	6.2	20.7
2 21	8 17.92	+12 47.1	1.737	2.648	10.3	21.0
3 2	8 11.88	+12 38.4	1.816	2.654	13.8	21.2

219767 2001 YY_{96} 1 28.4 173°.60 5°.3/24.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.08	+32 11.0	2.386	3.185	11.9	20.7
1 2	9 4.54	+33 33.0	2.311	3.189	9.4	20.6
1 12	8 56.60	+34 53.7	2.262	3.191	6.9	20.4
1 22	8 46.89	+36 6.0	2.242	3.193	5.4	20.3
2 1	8 36.33	+37 3.1	2.251	3.195	6.1	20.4
2 11	8 26.08	+37 40.8	2.290	3.195	8.3	20.5
2 21	8 17.19	+37 58.1	2.355	3.196	10.9	20.7
3 2	8 10.51	+37 56.9	2.443	3.195	13.3	20.8

522402 2016 CR_{309} 1 28.4 145°.94 0°.4/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.00	+16 35.7	2.093	2.889	13.5	21.2
1 2	9 0.62	+17 16.7	2.009	2.891	10.3	21.0
1 12	8 54.04	+18 7.5	1.950	2.894	6.7	20.8
1 22	8 45.86	+19 4.0	1.918	2.897	2.6	20.5
2 1	8 36.94	+20 1.0	1.916	2.899	1.7	20.4
2 11	8 28.31	+20 53.3	1.944	2.901	5.8	20.7
2 21	8 20.96	+21 37.0	1.999	2.903	9.5	20.9
3 2	8 15.62	+22 10.3	2.079	2.905	12.8	21.2

133393 2003 SO_{162} 1 28.4 165°.29 2°.7/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.83	+23 42.3	2.106	2.905	13.3	20.8
1 2	9 5.11	+24 31.4	2.027	2.911	10.2	20.6
1 12	8 56.96	+25 24.6	1.973	2.916	6.7	20.4
1 22	8 47.03	+26 16.2	1.946	2.920	3.4	20.2
2 1	8 36.30	+27 0.1	1.950	2.924	3.5	20.2
2 11	8 25.97	+27 31.8	1.984	2.927	6.9	20.4
2 21	8 17.10	+27 49.5	2.045	2.929	10.4	20.6
3 2	8 10.51	+27 53.5	2.130	2.931	13.4	20.9

131340 2001 HW_{44} 1 28.4 135°.33 5°.7/24.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.17	+36 40.1	2.610	3.401	11.3	19.9
1 2	9 5.07	+37 36.3	2.546	3.413	9.0	19.8
1 12	8 56.75	+38 26.9	2.507	3.424	6.9	19.7
1 22	8 46.88	+39 5.7	2.495	3.434	5.8	19.6
2 1	8 36.41	+39 28.0	2.514	3.445	6.3	19.7
2 11	8 26.42	+39 31.4	2.560	3.454	8.0	19.8
2 21	8 17.86	+39 16.7	2.634	3.464	10.2	20.0
3 2	8 11.43	+38 46.4	2.730	3.473	12.2	20.1

500340 2012 SH_{54} 1 28.4 165°.49 2°.6/26.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.24	+26 21.4	2.582	3.378	11.2	21.5
1 2	9 2.67	+26 42.9	2.499	3.381	8.6	21.3
1 12	8 55.15	+27 4.8	2.442	3.383	5.7	21.1
1 22	8 46.24	+27 22.9	2.413	3.386	3.1	21.0
2 1	8 36.77	+27 33.6	2.415	3.388	3.2	21.0
2 11	8 27.65	+27 34.6	2.448	3.389	5.9	21.2
2 21	8 19.74	+27 25.1	2.508	3.391	8.8	21.3
3 2	8 13.67	+27 6.0	2.594	3.392	11.4	21.5

91360 1999 JZ_{66} 1 28.4 180°.12 3°.3/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.20	+23 44.8	1.853	2.660	14.6	18.7
1 2	9 5.04	+24 46.4	1.774	2.662	11.2	18.5
1 12	8 57.13	+25 53.8	1.718	2.662	7.3	18.2
1 22	8 47.16	+26 59.9	1.689	2.663	3.9	18.0
2 1	8 36.22	+27 57.3	1.689	2.662	4.2	18.0
2 11	8 25.65	+28 40.0	1.719	2.662	7.8	18.3
2 21	8 16.71	+29 5.5	1.775	2.660	11.6	18.5
3 2	8 10.32	+29 14.3	1.854	2.658	15.0	18.7

39092 2000 VB_{57} 1 28.4 74°.87 3°.0/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.36	+24 22.0	1.877	2.687	14.3	19.1
1 2	9 3.37	+25 3.7	1.811	2.700	10.9	18.9
1 12	8 55.86	+25 48.6	1.768	2.714	7.1	18.7
1 22	8 46.58	+26 30.7	1.753	2.727	3.6	18.5
2 1	8 36.59	+27 4.2	1.766	2.740	3.8	18.6
2 11	8 27.16	+27 25.0	1.808	2.754	7.2	18.8
2 21	8 19.37	+27 31.8	1.876	2.767	10.8	19.1
3 2	8 14.00	+27 25.3	1.968	2.781	13.9	19.3

46465 6617 *P–L* 1 28.4 14°.43 4°.9/26.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.05	+27 14.5	1.376	2.207	17.4	18.2
1 2	9 4.93	+28 0.4	1.310	2.209	13.4	18.0
1 12	8 57.39	+28 48.5	1.265	2.212	9.1	17.7
1 22	8 47.32	+29 30.0	1.244	2.215	5.4	17.5
2 1	8 36.16	+29 56.5	1.249	2.219	5.8	17.6
2 11	8 25.73	+30 2.9	1.279	2.224	9.7	17.8
2 21	8 17.55	+29 48.8	1.334	2.229	14.0	18.1
3 2	8 12.63	+29 17.2	1.409	2.234	17.8	18.3

4616 Batalov 1 28.4 38°.60 0°.5/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.94	+15 18.2	1.916	2.716	14.4	17.1
1 2	8 59.83	+15 34.6	1.846	2.729	11.1	16.9
1 12	8 53.51	+16 1.0	1.800	2.743	7.2	16.7
1 22	8 45.63	+16 34.0	1.779	2.757	3.0	16.5
2 1	8 37.13	+17 9.5	1.788	2.771	1.5	16.4
2 11	8 29.08	+17 43.1	1.825	2.786	5.7	16.7
2 21	8 22.43	+18 11.5	1.889	2.801	9.5	16.9
3 2	8 17.89	+18 32.5	1.977	2.816	12.8	17.2

82532 2001 OL_{63} 1 28.4 114°.70 2°.1/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.82	+21 38.8	1.947	2.750	14.1	20.2
1 2	9 3.64	+22 24.0	1.877	2.763	10.7	20.0
1 12	8 56.01	+23 14.9	1.830	2.776	6.9	19.8
1 22	8 46.64	+24 5.9	1.811	2.788	3.1	19.6
2 1	8 36.55	+24 51.1	1.822	2.800	3.0	19.6
2 11	8 26.95	+25 25.7	1.862	2.811	6.7	19.9
2 21	8 18.89	+25 47.5	1.929	2.823	10.4	20.1
3 2	8 13.15	+25 56.3	2.020	2.833	13.6	20.4

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
402546 2006 JJ_6			1 28.4 209°.26		1°.2/27.7 17	
	h m	° ′			°	m
12 23	9 9.15	+18 59.3	2.065	2.859	13.7	22.1
1 2	9 3.95	+19 38.2	1.971	2.853	10.5	21.9
1 12	8 56.32	+20 25.3	1.902	2.846	6.8	21.7
1 22	8 46.83	+21 16.1	1.861	2.839	2.7	21.4
2 1	8 36.41	+22 5.1	1.849	2.830	2.2	21.3
2 11	8 26.24	+22 47.1	1.868	2.822	6.3	21.6
2 21	8 17.40	+23 18.9	1.915	2.812	10.3	21.8
3 2	8 10.77	+23 39.2	1.986	2.802	13.7	22.0
34069 2000 OZ_{56}			1 28.4 16°.63		2°.0/27.3 18	
12 23	9 6.70	+23 38.7	2.157	2.962	12.8	18.7
1 2	9 1.85	+23 53.6	2.076	2.963	9.8	18.5
1 12	8 54.79	+24 10.8	2.020	2.965	6.4	18.3
1 22	8 46.15	+24 26.5	1.991	2.967	2.9	18.1
2 1	8 36.84	+24 36.6	1.991	2.969	2.8	18.0
2 11	8 27.95	+24 38.3	2.021	2.972	6.2	18.3
2 21	8 20.42	+24 30.5	2.078	2.974	9.6	18.5
3 2	8 14.98	+24 13.6	2.159	2.977	12.7	18.7
468264 2015 BA_{455}			1 28.4 108°.19		0°.9/27.7 18	
12 23	9 4.59	+18 20.9	2.327	3.122	12.3	21.3
1 2	9 0.05	+19 3.0	2.250	3.132	9.4	21.2
1 12	8 53.55	+19 52.3	2.197	3.142	6.0	21.0
1 22	8 45.65	+20 44.9	2.173	3.151	2.4	20.7
2 1	8 37.14	+21 35.9	2.179	3.160	1.9	20.7
2 11	8 28.96	+22 21.1	2.215	3.169	5.4	21.0
2 21	8 21.94	+22 57.5	2.279	3.178	8.8	21.2
3 2	8 16.75	+23 23.7	2.369	3.187	11.7	21.4
55932 1998 FE_{68}			1 28.4 349°.31		1°.1/29.1 18	
12 23	9 2.26	+13 57.6	1.934	2.733	14.3	18.9
1 2	8 58.71	+14 7.5	1.847	2.728	11.1	18.7
1 12	8 52.92	+14 28.5	1.782	2.724	7.4	18.5
1 22	8 45.47	+14 58.2	1.744	2.720	3.3	18.2
2 1	8 37.24	+15 32.8	1.734	2.717	1.7	18.1
2 11	8 29.30	+16 8.0	1.752	2.714	5.8	18.3
2 21	8 22.65	+16 40.0	1.797	2.712	9.7	18.6
3 2	8 18.07	+17 5.9	1.866	2.710	13.3	18.8
304808 2007 PM_{36}			1 28.4 193°.88		3°.1/30.4 18	
12 23	9 7.18	+ 7 7.2	1.918	2.685	15.6	21.5
1 2	9 2.49	+ 7 26.8	1.826	2.684	12.5	21.3
1 12	8 55.39	+ 8 4.3	1.756	2.682	8.8	21.1
1 22	8 46.48	+ 8 58.0	1.712	2.679	4.9	20.8
2 1	8 36.66	+10 4.0	1.697	2.675	3.1	20.7
2 11	8 27.08	+11 16.3	1.712	2.671	6.2	20.9
2 21	8 18.82	+12 28.7	1.755	2.667	10.1	21.1
3 2	8 12.74	+13 36.1	1.822	2.662	13.7	21.3
273213 2006 JL_{29}			1 28.4 345°.10		0°.7/27.9 18	
12 23	9 4.54	+18 0.9	2.060	2.862	13.5	20.8
1 2	9 0.34	+18 32.3	1.976	2.861	10.3	20.6
1 12	8 53.92	+19 12.2	1.915	2.860	6.6	20.4
1 22	8 45.85	+19 56.5	1.881	2.859	2.6	20.1
2 1	8 37.04	+20 40.3	1.876	2.859	1.8	20.1
2 11	8 28.53	+21 19.0	1.901	2.858	5.9	20.3
2 21	8 21.30	+21 49.5	1.953	2.858	9.7	20.6
3 2	8 16.13	+22 10.0	2.030	2.857	13.0	20.8
426657 2013 SL_{86}			1 28.4 93°.09		1°.1/29.2 18	
12 23	9 4.16	+12 40.2	2.100	2.887	13.8	20.9
1 2	8 59.91	+13 6.1	2.019	2.893	10.7	20.7
1 12	8 53.56	+13 44.1	1.961	2.899	7.1	20.5
1 22	8 45.69	+14 31.0	1.929	2.905	3.2	20.3
2 1	8 37.14	+15 22.7	1.928	2.911	1.6	20.2
2 11	8 28.91	+16 14.4	1.956	2.917	5.4	20.4
2 21	8 21.91	+17 1.9	2.012	2.922	9.1	20.7
3 2	8 16.86	+17 42.1	2.093	2.928	12.4	20.9
336748 2010 FG_{100}			1 28.4 1°.13		4°.3/31.4 18	
12 23	9 2.09	+ 4 7.1	2.140	2.898	14.5	21.1
1 2	8 58.30	+ 4 0.0	2.051	2.897	11.8	20.9
1 12	8 52.52	+ 4 9.3	1.984	2.897	8.7	20.7
1 22	8 45.28	+ 4 34.8	1.942	2.897	5.8	20.5
2 1	8 37.37	+ 5 14.6	1.929	2.898	4.3	20.4
2 11	8 29.70	+ 6 4.8	1.944	2.898	6.1	20.5
2 21	8 23.15	+ 7 0.8	1.986	2.899	9.1	20.7
3 2	8 18.42	+ 7 57.5	2.054	2.899	12.2	20.9
16794 Cucullia			1 28.4 58°.56		2°.2/30.3 18	
12 23	9 2.22	+ 7 6.1	2.192	2.960	13.8	18.5
1 2	8 58.27	+ 7 53.5	2.116	2.976	10.9	18.3
1 12	8 52.42	+ 8 57.3	2.064	2.991	7.5	18.1
1 22	8 45.21	+10 14.6	2.039	3.007	4.0	17.9
2 1	8 37.43	+11 40.4	2.043	3.023	2.3	17.8
2 11	8 29.96	+13 8.7	2.079	3.040	5.1	18.0
2 21	8 23.63	+14 33.6	2.143	3.056	8.5	18.3
3 2	8 19.09	+15 50.6	2.233	3.072	11.6	18.5

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
109649 2001 RC_5			1 28.4 85°.43		1°.7/29.3 18	
	h m	° ′			°	m
12 23	9 8.61	+12 54.4	1.829	2.616	15.5	20.2
1 2	9 3.42	+12 52.2	1.760	2.634	12.0	20.1
1 12	8 55.83	+13 1.5	1.714	2.651	8.0	19.9
1 22	8 46.58	+13 19.8	1.694	2.668	3.8	19.6
2 1	8 36.69	+13 43.8	1.703	2.685	2.1	19.5
2 11	8 27.34	+14 9.5	1.741	2.702	5.9	19.8
2 21	8 19.55	+14 33.3	1.806	2.718	9.9	20.1
3 2	8 14.07	+14 52.8	1.896	2.735	13.3	20.3
518083 2016 AJ_{228}			1 28.4 257°.77		2°.7/29.5 18	
12 23	9 9.91	+12 33.8	1.826	2.610	15.6	20.8
1 2	9 4.62	+11 57.7	1.738	2.608	12.3	20.6
1 12	8 56.77	+11 31.0	1.673	2.607	8.5	20.4
1 22	8 47.03	+11 13.1	1.634	2.605	4.5	20.1
2 1	8 36.43	+11 2.9	1.623	2.603	2.9	20.0
2 11	8 26.22	+10 57.9	1.642	2.601	6.4	20.2
2 21	8 17.54	+10 56.1	1.688	2.599	10.5	20.5
3 2	8 11.23	+10 55.0	1.758	2.597	14.2	20.7
171047 2005 EM_{99}			1 28.4 243°.34		2°.8/30.3 18	
12 23	9 3.59	+ 8 33.8	2.300	3.068	13.3	20.0
1 2	8 59.35	+ 8 32.9	2.205	3.064	10.6	19.8
1 12	8 53.17	+ 8 44.7	2.134	3.059	7.4	19.6
1 22	8 45.56	+ 9 8.0	2.089	3.055	4.2	19.4
2 1	8 37.26	+ 9 40.6	2.073	3.050	2.8	19.3
2 11	8 29.18	+10 19.0	2.087	3.046	5.3	19.5
2 21	8 22.16	+10 59.4	2.129	3.041	8.6	19.6
3 2	8 16.89	+11 38.2	2.197	3.036	11.7	19.8
477454 2009 WB_{226}			1 28.4 175°.56		0°.7/29.2 17	
12 23	8 59.26	+13 36.8	4.164	4.930	7.8	22.9
1 2	8 55.19	+13 49.7	4.068	4.932	6.0	22.8
1 12	8 50.06	+14 8.0	4.000	4.933	4.0	22.6
1 22	8 44.21	+14 30.0	3.961	4.935	1.8	22.5
2 1	8 38.04	+14 54.4	3.953	4.936	1.0	22.4
2 11	8 32.00	+15 19.1	3.978	4.936	3.0	22.6
2 21	8 26.53	+15 42.6	4.033	4.937	5.1	22.7
3 2	8 21.99	+16 3.6	4.115	4.937	7.1	22.9
294585 2007 YG_{66}			1 28.4 188°.72		0°.1/28.4 18	
12 23	9 6.28	+14 56.0	1.899	2.695	14.7	21.7
1 2	9 1.87	+15 40.7	1.814	2.694	11.3	21.4
1 12	8 55.04	+16 38.3	1.751	2.694	7.4	21.2
1 22	8 46.37	+17 44.4	1.715	2.693	2.9	20.9
2 1	8 36.81	+18 52.9	1.709	2.692	1.7	20.8
2 11	8 27.53	+19 57.5	1.732	2.691	6.2	21.1
2 21	8 19.64	+20 53.3	1.782	2.689	10.3	21.4
3 2	8 13.99	+21 37.5	1.857	2.687	13.9	21.6
331040 2009 VC_{56}			1 28.4 170°.33		2°.5/26.7 18	
12 23	8 20.20	+24 6.3	2.336	3.134	12.2	21.7
1 2	9 2.92	+24 49.2	2.254	3.137	9.3	21.5
1 12	8 55.48	+25 35.3	2.197	3.140	6.1	21.3
1 22	8 46.48	+26 19.7	2.168	3.142	3.1	21.1
2 1	8 36.77	+26 57.3	2.170	3.144	3.3	21.1
2 11	8 27.39	+27 24.4	2.202	3.145	6.3	21.3
2 21	8 19.29	+27 39.1	2.262	3.146	9.5	21.5
3 2	8 13.18	+27 41.7	2.347	3.147	12.4	21.7
318665 2005 NT_{76}			1 28.4 209°.45		1°.4/29.3 17	
12 23	9 6.42	+11 53.8	2.212	2.989	13.5	22.1
1 2	9 1.64	+12 15.5	2.116	2.984	10.6	21.9
1 12	8 54.73	+12 49.5	2.043	2.977	7.1	21.6
1 22	8 46.21	+13 33.1	1.997	2.971	3.3	21.4
2 1	8 36.89	+14 22.7	1.981	2.963	1.8	21.3
2 11	8 27.77	+15 13.6	1.996	2.956	5.4	21.5
2 21	8 19.79	+16 1.7	2.039	2.947	9.1	21.7
3 2	8 13.73	+16 43.8	2.108	2.938	12.5	21.9
291561 2006 FQ_{10}			1 28.4 196°.64		0°.7/28.8 18	
12 23	9 8.96	+14 14.7	2.049	2.832	14.2	22.2
1 2	9 3.75	+14 37.7	1.956	2.829	11.0	22.0
1 12	8 56.17	+15 11.9	1.887	2.826	7.3	21.8
1 22	8 46.81	+15 54.0	1.846	2.822	3.1	21.5
2 1	8 36.57	+16 39.6	1.834	2.817	1.6	21.4
2 11	8 26.60	+17 24.0	1.852	2.811	5.8	21.6
2 21	8 17.93	+18 3.2	1.899	2.805	9.8	21.9
3 2	8 11.42	+18 34.6	1.971	2.798	13.3	22.1
157794 1994 PP_{14}			1 28.4 201°.96		0°.4/28.2 17 R	
12 23	9 7.60	+18 29.6	2.536	3.321	11.7	20.8
1 2	9 2.26	+18 41.9	2.441	3.317	9.0	20.6
1 12	8 54.97	+18 59.6	2.371	3.312	5.8	20.4
1 22	8 46.26	+19 19.8	2.329	3.307	2.3	20.2
2 1	8 36.90	+19 39.4	2.319	3.302	1.4	20.1
2 11	8 27.78	+19 55.5	2.339	3.295	5.0	20.4
2 21	8 19.75	+20 6.0	2.389	3.289	8.4	20.6
3 2	8 13.48	+20 10.2	2.464	3.281	11.3	20.7

274600 2008 TF_{35} 1 28.4 122°67 0°6/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.44	+18 33.3	2.209	3.004	12.9	21.5
1 2	9 1.56	+18 54.4	2.129	3.011	9.9	21.3
1 12	8 54.59	+19 21.9	2.073	3.017	6.3	21.1
1 22	8 46.11	+19 52.5	2.045	3.024	2.5	20.8
2 1	8 37.00	+20 22.0	2.047	3.030	1.7	20.8
2 11	8 28.25	+20 46.9	2.079	3.036	5.5	21.0
2 21	8 20.77	+21 4.8	2.139	3.042	9.1	21.3
3 2	8 15.26	+21 14.5	2.224	3.048	12.2	21.5

440421 2005 QT_{170} 1 28.4 90°00 0°7/28.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.98	+16 8.0	1.468	2.268	18.1	20.9
1 2	9 8.72	+16 4.7	1.410	2.292	13.9	20.7
1 12	8 59.43	+16 11.8	1.373	2.315	9.0	20.5
1 22	8 48.05	+16 25.6	1.362	2.339	3.7	20.3
2 1	8 35.98	+16 41.3	1.378	2.362	1.9	20.2
2 11	8 24.79	+16 54.9	1.423	2.384	7.0	20.6
2 21	8 15.77	+17 3.6	1.494	2.406	11.6	20.9
3 2	8 9.74	+17 6.2	1.589	2.427	15.5	21.2

257225 2009 DY_{11} 1 28.4 270°45 5°0/ 2.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.66	− 2 24.8	2.797	3.504	12.5	21.0
1 2	8 57.67	− 2 11.7	2.676	3.481	10.6	20.8
1 12	8 52.03	− 1 40.7	2.576	3.458	8.4	20.6
1 22	8 45.13	− 0 51.3	2.503	3.434	6.2	20.5
2 1	8 37.53	+ 0 15.2	2.459	3.410	5.0	20.3
2 11	8 29.95	+ 1 35.7	2.445	3.386	5.9	20.4
2 21	8 23.12	+ 3 5.1	2.460	3.362	8.1	20.5
3 2	8 17.66	+ 4 38.2	2.503	3.337	10.6	20.6

115733 2003 UO_{185} 1 28.4 340°41 1°1/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.67	+19 7.7	1.997	2.802	13.7	19.7
1 2	9 0.55	+19 40.6	1.913	2.800	10.5	19.5
1 12	8 54.13	+20 21.5	1.852	2.798	6.7	19.3
1 22	8 46.00	+21 5.8	1.818	2.796	2.7	19.0
2 1	8 37.08	+21 48.6	1.813	2.795	2.2	19.0
2 11	8 28.48	+22 25.0	1.837	2.793	6.2	19.2
2 21	8 21.20	+22 52.0	1.888	2.792	10.0	19.5
3 2	8 16.06	+23 8.2	1.963	2.790	13.4	19.7

502996 2015 FG_{94} 1 28.4 356°36 3°0/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.86	+ 8 56.3	2.250	3.020	13.5	21.2
1 2	8 59.56	+ 8 38.2	2.160	3.019	10.7	21.0
1 12	8 53.30	+ 8 31.5	2.094	3.019	7.6	20.8
1 22	8 45.62	+ 8 35.8	2.053	3.018	4.4	20.7
2 1	8 37.30	+ 8 49.4	2.042	3.018	3.1	20.6
2 11	8 29.25	+ 9 9.5	2.061	3.018	5.5	20.7
2 21	8 22.31	+ 9 33.1	2.107	3.018	8.7	20.9
3 2	8 17.16	+ 9 57.0	2.178	3.018	11.8	21.1

63089 2000 WX_{139} 1 28.4 315°50 2°6/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.78	+22 19.1	1.851	2.664	14.3	19.6
1 2	9 1.68	+23 7.8	1.767	2.659	11.0	19.3
1 12	8 55.01	+24 3.2	1.707	2.655	7.1	19.1
1 22	8 46.40	+24 59.5	1.674	2.650	3.4	18.9
2 1	8 36.86	+25 50.0	1.669	2.646	3.5	18.9
2 11	8 27.64	+26 29.1	1.692	2.641	7.3	19.1
2 21	8 19.92	+26 53.9	1.742	2.637	11.2	19.3
3 2	8 14.58	+27 4.0	1.814	2.634	14.7	19.5

194674 2001 XR_{195} 1 28.4 39°94 1°9/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.09	+14 2.5	1.136	1.959	20.8	19.5
1 2	9 4.92	+13 47.4	1.084	1.978	16.1	19.2
1 12	8 57.31	+13 47.9	1.052	1.997	10.7	19.0
1 22	8 47.29	+14 0.9	1.042	2.018	4.9	18.7
2 1	8 36.44	+14 21.5	1.057	2.040	2.6	18.6
2 11	8 26.58	+14 43.8	1.097	2.062	7.9	19.0
2 21	8 19.13	+15 3.4	1.161	2.085	13.0	19.4
3 2	8 14.99	+15 17.1	1.245	2.108	17.3	19.7

288925 2004 SS_{23} 1 28.4 165°65 3°2/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.50	+ 7 49.3	1.896	2.664	15.7	21.5
1 2	9 3.46	+ 7 54.7	1.810	2.669	12.5	21.3
1 12	8 56.00	+ 8 16.3	1.747	2.673	8.8	21.0
1 22	8 46.76	+ 8 52.6	1.710	2.676	5.0	20.8
2 1	8 36.68	+ 9 40.2	1.702	2.679	3.3	20.7
2 11	8 26.94	+10 34.2	1.723	2.682	6.2	20.9
2 21	8 18.60	+11 29.2	1.772	2.684	10.1	21.1
3 2	8 12.50	+12 20.7	1.846	2.685	13.6	21.4

58173 1990 SS_{10} 1 28.4 109°09 3°5/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.07	+26 7.7	1.621	2.429	16.3	18.9
1 2	9 9.61	+26 31.1	1.557	2.444	12.5	18.6
1 12	9 0.07	+26 55.3	1.515	2.458	8.2	18.4
1 22	8 48.35	+27 13.7	1.499	2.472	4.3	18.2
2 1	8 35.86	+27 20.2	1.512	2.486	4.3	18.3
2 11	8 24.20	+27 11.8	1.553	2.499	8.1	18.5
2 21	8 14.69	+26 49.1	1.620	2.512	12.1	18.8
3 2	8 8.20	+26 14.5	1.710	2.525	15.6	19.0

419421 2010 AC_{116} 1 28.4 76°41 0°3/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.38	+14 25.2	1.891	2.687	14.7	21.2
1 2	9 1.05	+15 2.1	1.818	2.699	11.3	21.0
1 12	8 54.40	+15 51.0	1.769	2.711	7.4	20.7
1 22	8 46.09	+16 47.8	1.746	2.723	3.0	20.5
2 1	8 37.08	+17 47.1	1.752	2.736	1.5	20.4
2 11	8 28.49	+18 43.1	1.788	2.748	5.9	20.7
2 21	8 21.31	+19 31.6	1.850	2.760	9.8	21.0
3 2	8 16.32	+20 10.0	1.938	2.772	13.2	21.2

78659 2002 TD_{79} 1 28.4 118°34 4°4/25.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.62	+30 22.1	2.307	3.110	12.2	19.6
1 2	9 3.32	+31 10.8	2.236	3.118	9.4	19.4
1 12	8 55.77	+31 57.9	2.190	3.126	6.6	19.3
1 22	8 46.61	+32 37.7	2.171	3.133	4.6	19.2
2 1	8 36.80	+33 5.0	2.182	3.140	5.0	19.2
2 11	8 27.43	+33 16.6	2.222	3.147	7.4	19.4
2 21	8 19.47	+33 12.3	2.289	3.154	10.2	19.5
3 2	8 13.65	+32 53.6	2.379	3.161	12.8	19.7

266428 2007 GM_{52} 1 28.4 341°47 2°0/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.76	+21 49.8	1.870	2.680	14.3	20.8
1 2	9 2.33	+22 20.6	1.788	2.678	11.0	20.6
1 12	8 55.36	+22 57.1	1.730	2.677	7.1	20.4
1 22	8 46.52	+23 34.3	1.698	2.675	3.1	20.1
2 1	8 36.83	+24 6.7	1.695	2.674	2.9	20.1
2 11	8 27.53	+24 29.8	1.720	2.673	6.9	20.3
2 21	8 19.74	+24 41.2	1.772	2.672	10.8	20.6
3 2	8 14.31	+24 40.8	1.847	2.671	14.2	20.8

130181 2000 AZ_{52} 1 28.4 77°70 5°6/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.07	+ 3 0.5	2.035	2.781	15.5	19.7
1 2	9 2.05	+ 2 14.3	1.960	2.795	12.7	19.5
1 12	8 54.90	+ 1 44.0	1.908	2.810	9.7	19.4
1 22	8 46.27	+ 1 30.6	1.880	2.825	6.9	19.2
2 1	8 37.02	+ 1 33.8	1.881	2.839	5.6	19.2
2 11	8 28.19	+ 1 51.0	1.910	2.854	7.0	19.3
2 21	8 20.67	+ 2 18.5	1.966	2.868	9.8	19.5
3 2	8 15.17	+ 2 51.5	2.046	2.882	12.6	19.7

448121 2008 RE_{103} 1 28.4 60°38 6°9/ 1.4 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.41	+ 0 45.1	1.286	2.056	21.7	21.8
1 2	9 4.64	+ 0 30.0	1.239	2.088	17.7	21.6
1 12	8 56.87	+ 0 43.8	1.209	2.120	13.3	21.4
1 22	8 47.08	+ 1 26.1	1.202	2.152	9.1	21.3
2 1	8 36.62	+ 2 32.6	1.219	2.184	6.9	21.2
2 11	8 27.05	+ 3 55.0	1.262	2.216	8.7	21.4
2 21	8 19.60	+ 5 23.2	1.331	2.248	12.3	21.7
3 2	8 15.07	+ 6 48.5	1.422	2.279	15.9	22.0

239250 2006 UH_{142} 1 28.4 202°97 4°2/24.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.44	+33 48.6	3.193	3.983	9.4	21.4
1 2	9 1.97	+34 36.1	3.107	3.978	7.4	21.3
1 12	8 54.71	+35 20.8	3.048	3.973	5.5	21.2
1 22	8 46.18	+35 58.0	3.018	3.967	4.3	21.1
2 1	8 37.06	+36 24.0	3.018	3.960	4.7	21.1
2 11	8 28.17	+36 36.1	3.048	3.953	6.5	21.2
2 21	8 20.28	+36 34.1	3.105	3.946	8.5	21.3
3 2	8 14.00	+36 19.0	3.188	3.938	10.5	21.5

521993 2015 WS_{21} 1 28.4 91°45 3°8/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.57	+ 8 41.8	1.566	2.349	17.8	21.7
1 2	9 4.58	+ 8 22.6	1.496	2.363	14.2	21.4
1 12	8 56.83	+ 8 20.1	1.447	2.376	10.0	21.2
1 22	8 47.11	+ 8 33.2	1.422	2.389	5.7	21.0
2 1	8 36.56	+ 8 59.2	1.425	2.402	3.9	20.9
2 11	8 26.59	+ 9 33.3	1.456	2.415	7.0	21.1
2 21	8 18.40	+10 10.4	1.512	2.428	11.2	21.4
3 2	8 12.84	+10 45.9	1.592	2.440	15.0	21.7

24782 1993 SO_{7} 1 28.4 66°08 0°2/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.69	+15 26.7	1.237	2.056	19.7	19.2
1 2	9 5.42	+15 50.7	1.174	2.068	15.2	19.0
1 12	8 57.75	+16 30.1	1.132	2.079	9.9	18.7
1 22	8 47.55	+17 19.6	1.113	2.091	4.0	18.4
2 1	8 36.32	+18 11.6	1.120	2.103	2.1	18.3
2 11	8 25.84	+18 58.4	1.153	2.116	7.9	18.7
2 21	8 17.63	+19 34.9	1.210	2.128	13.2	19.0
3 2	8 12.70	+19 58.8	1.289	2.140	17.6	19.3

376723 1997 SB_{26} 1 28.4 82°54 3°7/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.40	+28 16.2	2.156	2.961	12.9	21.0
1 2	9 3.94	+28 48.2	2.088	2.973	9.9	20.8
1 12	8 56.16	+29 19.5	2.044	2.984	6.7	20.6
1 22	8 46.77	+29 44.7	2.027	2.996	4.0	20.5
2 1	8 36.77	+29 59.1	2.040	3.007	4.3	20.5
2 11	8 27.31	+29 59.9	2.082	3.019	7.1	20.7
2 21	8 19.36	+29 47.0	2.151	3.031	10.2	20.9
3 2	8 13.65	+29 22.0	2.244	3.042	12.9	21.1

122879 2000 SK_{143} 1 28.4 90°.87 5°.9/31.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.70	+ 1 38.2	2.018	2.759	15.8	20.5
1 2	9 1.79	+ 1 1.8	1.944	2.775	13.0	20.3
1 12	8 54.76	+ 0 43.0	1.891	2.790	10.0	20.2
1 22	8 46.23	+ 0 42.6	1.863	2.805	7.2	20.0
2 1	8 37.07	+ 0 59.9	1.863	2.820	5.9	20.0
2 11	8 28.33	+ 1 31.8	1.892	2.835	7.1	20.1
2 21	8 20.90	+ 2 13.6	1.947	2.850	9.8	20.3
3 2	8 15.48	+ 3 0.2	2.027	2.864	12.6	20.5

339528 2005 GH_{225} 1 28.4 190°.12 4°.3/25.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.88	+30 28.0	2.539	3.341	11.2	21.2
1 2	9 1.92	+31 24.8	2.459	3.340	8.7	21.1
1 12	8 54.87	+32 20.8	2.404	3.339	6.2	20.9
1 22	8 46.29	+33 10.5	2.378	3.338	4.4	20.8
2 1	8 37.01	+33 48.7	2.382	3.337	4.9	20.8
2 11	8 28.04	+34 11.8	2.414	3.335	7.2	21.0
2 21	8 20.26	+34 19.1	2.474	3.333	9.8	21.1
3 2	8 14.41	+34 11.5	2.558	3.331	12.2	21.3

184442 2005 NQ_{35} 1 28.4 165°.48 0°.1/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.72	+17 4.8	2.190	2.977	13.3	21.7
1 2	9 3.35	+17 20.4	2.105	2.982	10.2	21.5
1 12	8 55.79	+17 43.5	2.044	2.986	6.6	21.3
1 22	8 46.66	+18 10.8	2.012	2.989	2.6	21.1
2 1	8 36.82	+18 38.5	2.009	2.992	1.5	21.0
2 11	8 27.34	+19 3.0	2.037	2.995	5.5	21.3
2 21	8 19.14	+19 21.7	2.093	2.997	9.2	21.5
3 2	8 12.98	+19 33.2	2.174	2.998	12.4	21.7

11271 1988 KB 1 28.4 277°.24 9°.6/20.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.79	+35 0.0	1.681	2.496	15.4	17.1
1 2	9 7.74	+37 42.8	1.591	2.471	12.7	16.8
1 12	8 59.95	+40 31.0	1.527	2.446	10.4	16.6
1 22	8 48.79	+43 9.4	1.490	2.420	9.7	16.5
2 1	8 35.43	+45 22.3	1.481	2.394	11.2	16.5
2 11	8 21.75	+46 58.0	1.498	2.368	14.2	16.7
2 21	8 9.84	+47 53.5	1.537	2.341	17.4	16.8
3 2	8 1.44	+48 12.2	1.594	2.314	20.4	16.9

192269 2008 OB_4 1 28.4 225°.11 1°.3/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.94	+13 38.0	2.362	3.139	12.7	20.7
1 2	9 1.93	+13 38.3	2.262	3.130	9.9	20.5
1 12	8 54.88	+13 47.3	2.185	3.121	6.7	20.3
1 22	8 46.32	+14 3.2	2.137	3.111	3.1	20.0
2 1	8 37.01	+14 23.3	2.119	3.101	1.7	19.9
2 11	8 27.90	+14 44.7	2.131	3.091	5.1	20.1
2 21	8 19.88	+15 4.6	2.172	3.080	8.7	20.3
3 2	8 13.68	+15 20.8	2.239	3.068	11.9	20.5

333275 1994 LV 1 28.4 324°.45 3°.0/26.5 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.71	+19 13.3	1.412	2.245	16.9	19.9
1 2	8 58.85	+20 35.3	1.311	2.214	13.1	19.6
1 12	8 53.87	+22 16.4	1.231	2.183	8.6	19.2
1 22	8 46.23	+24 9.3	1.176	2.154	4.0	18.9
2 1	8 36.94	+26 2.9	1.147	2.125	4.4	18.8
2 11	8 27.59	+27 44.9	1.144	2.097	9.6	19.0
2 21	8 19.83	+29 6.5	1.166	2.070	14.8	19.2
3 2	8 15.08	+30 3.2	1.207	2.044	19.4	19.4

432503 2010 EW_{152} 1 28.4 255°.35 8°.1/ 4.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.55	− 9 53.7	2.645	3.309	14.1	21.6
1 2	8 57.63	−10 33.4	2.546	3.302	12.4	21.5
1 12	8 52.02	−10 53.9	2.467	3.295	10.7	21.3
1 22	8 45.15	−10 52.8	2.411	3.288	9.1	21.2
2 1	8 37.66	−10 29.0	2.380	3.281	8.2	21.1
2 11	8 30.31	− 9 44.2	2.376	3.274	8.4	21.1
2 21	8 23.81	− 8 42.4	2.399	3.267	9.7	21.2
3 2	8 18.80	− 7 28.7	2.446	3.260	11.5	21.3

207800 2007 TW_{195} 1 28.4 352°.71 2°.1/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.56	+11 36.8	1.784	2.582	15.4	19.9
1 2	8 58.38	+11 37.6	1.698	2.577	12.1	19.6
1 12	8 52.85	+11 52.0	1.634	2.572	8.2	19.4
1 22	8 45.56	+12 18.1	1.595	2.568	4.1	19.1
2 1	8 37.44	+12 52.7	1.583	2.565	2.4	19.0
2 11	8 29.62	+13 31.1	1.600	2.563	6.1	19.2
2 21	8 23.16	+14 8.9	1.642	2.561	10.2	19.5
3 2	8 18.89	+14 42.2	1.708	2.561	13.9	19.7

462332 2008 KR_5 1 28.4 184°.46 1°.3/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.53	+11 50.8	2.212	2.990	13.4	22.5
1 2	9 0.94	+12 14.1	2.121	2.990	10.5	22.3
1 12	8 54.27	+12 49.5	2.055	2.990	7.0	22.1
1 22	8 46.08	+13 34.5	2.015	2.989	3.3	21.8
2 1	8 37.16	+14 25.1	2.006	2.988	1.7	21.7
2 11	8 28.48	+15 16.8	2.027	2.987	5.3	21.9
2 21	8 20.96	+16 5.5	2.076	2.985	8.9	22.2
3 2	8 15.32	+16 47.9	2.151	2.983	12.2	22.4

144074 2004 BQ_{48} 1 28.4 317°.98 0°.2/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.63	+16 13.8	1.609	2.417	16.3	20.3
1 2	9 2.60	+16 28.0	1.524	2.412	12.7	20.1
1 12	8 55.76	+16 53.7	1.461	2.406	8.3	19.8
1 22	8 46.78	+17 27.1	1.423	2.401	3.4	19.5
2 1	8 36.76	+18 3.1	1.413	2.396	1.8	19.4
2 11	8 27.10	+18 36.3	1.430	2.392	6.9	19.7
2 21	8 19.09	+19 2.7	1.474	2.387	11.6	19.9
3 2	8 13.71	+19 20.0	1.539	2.383	15.6	20.2

271760 2004 SH_4 1 28.4 90°.97 0°.2/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.70	+18 27.3	2.028	2.821	14.0	21.1
1 2	9 4.09	+18 31.2	1.959	2.839	10.7	20.9
1 12	8 56.22	+18 41.2	1.913	2.856	6.9	20.7
1 22	8 46.80	+18 53.9	1.895	2.873	2.7	20.5
2 1	8 36.81	+19 6.0	1.907	2.890	1.6	20.4
2 11	8 27.36	+19 14.3	1.948	2.906	5.7	20.7
2 21	8 19.40	+19 17.1	2.018	2.923	9.4	21.0
3 2	8 13.62	+19 13.8	2.112	2.939	12.6	21.2

3634 Iwan 1 28.4 183°.22 1°.7/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.25	+20 47.4	1.643	2.449	16.2	17.6
1 2	9 6.86	+21 11.6	1.562	2.450	12.4	17.4
1 12	8 58.48	+21 42.8	1.504	2.450	8.0	17.1
1 22	8 47.85	+22 15.6	1.472	2.449	3.4	16.8
2 1	8 36.19	+22 43.9	1.468	2.449	2.8	16.8
2 11	8 25.01	+23 2.7	1.493	2.448	7.4	17.1
2 21	8 15.67	+23 9.7	1.544	2.446	11.9	17.3
3 2	8 9.16	+23 5.1	1.617	2.444	15.8	17.5

291793 2006 KA_{60} 1 28.4 287°.68 0°.2/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.04	+15 13.6	1.562	2.371	16.7	20.4
1 2	9 2.29	+15 55.5	1.477	2.365	13.0	20.2
1 12	8 55.66	+16 52.8	1.413	2.358	8.5	19.9
1 22	8 46.78	+18 0.5	1.374	2.352	3.4	19.6
2 1	8 36.75	+19 11.7	1.362	2.346	2.0	19.5
2 11	8 27.02	+20 18.4	1.379	2.339	7.2	19.8
2 21	8 18.93	+21 14.6	1.421	2.333	12.0	20.0
3 2	8 13.53	+21 57.1	1.486	2.327	16.2	20.3

343362 2010 CS_{81} 1 28.4 182°.38 0°.1/28.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.06	+16 47.7	2.499	3.285	11.8	21.6
1 2	9 0.35	+17 4.8	2.409	3.286	9.1	21.4
1 12	8 53.77	+17 28.9	2.344	3.286	5.9	21.2
1 22	8 45.85	+17 57.1	2.308	3.285	2.4	21.0
2 1	8 37.32	+18 26.1	2.302	3.285	1.3	20.9
2 11	8 29.05	+18 52.8	2.326	3.284	4.9	21.1
2 21	8 21.83	+19 14.7	2.379	3.283	8.2	21.3
3 2	8 16.31	+19 30.2	2.458	3.282	11.1	21.5

173326 1999 VW_{146} 1 28.4 134°.36 0°.7/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.22	+14 24.4	2.016	2.800	14.4	21.0
1 2	9 3.83	+14 46.0	1.940	2.813	11.1	20.8
1 12	8 56.14	+15 18.1	1.887	2.826	7.3	20.6
1 22	8 46.82	+15 57.3	1.861	2.838	3.1	20.3
2 1	8 36.80	+16 39.2	1.866	2.849	1.5	20.2
2 11	8 27.21	+17 19.3	1.900	2.860	5.7	20.5
2 21	8 19.04	+17 53.9	1.963	2.870	9.5	20.8
3 2	8 13.03	+18 21.0	2.050	2.879	12.8	21.0

370489 2003 RN_{20} 1 28.4 90°.77 2°.6/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.83	+ 7 42.5	2.213	2.977	13.8	21.1
1 2	9 0.21	+ 8 1.6	2.141	2.997	10.9	20.9
1 12	8 53.67	+ 8 34.9	2.091	3.017	7.6	20.7
1 22	8 45.80	+ 9 20.5	2.069	3.036	4.2	20.6
2 1	8 37.38	+10 14.8	2.077	3.055	2.7	20.5
2 11	8 29.34	+11 13.1	2.114	3.074	5.2	20.7
2 21	8 22.49	+12 10.8	2.180	3.092	8.5	20.9
3 2	8 17.46	+13 4.2	2.272	3.110	11.4	21.1

96645 1999 GB_{35} 1 28.4 290°.92 0°.3/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.98	+17 28.6	1.494	2.308	17.1	19.5
1 2	9 4.09	+17 42.9	1.399	2.289	13.4	19.2
1 12	8 57.03	+18 8.6	1.324	2.271	8.8	18.9
1 22	8 47.41	+18 41.8	1.274	2.252	3.5	18.5
2 1	8 36.39	+19 16.6	1.251	2.234	2.1	18.4
2 11	8 25.57	+19 47.1	1.254	2.215	7.7	18.7
2 21	8 16.47	+20 8.9	1.283	2.197	12.9	18.9
3 2	8 10.31	+20 19.9	1.334	2.179	17.5	19.1

1579 Herrick 1 28.4 18°.60 3°.4/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 0.92	+ 6 9.4	2.257	3.022	13.6	15.6
1 2	8 57.32	+ 6 11.8	2.172	3.026	10.9	15.5
1 12	8 51.88	+ 6 28.8	2.110	3.030	7.9	15.3
1 22	8 45.12	+ 6 59.5	2.074	3.035	4.8	15.1
2 1	8 37.75	+ 7 41.6	2.066	3.040	3.4	15.0
2 11	8 30.66	+ 8 31.0	2.087	3.045	5.4	15.1
2 21	8 24.61	+ 9 23.5	2.137	3.051	8.5	15.3
3 2	8 20.27	+10 14.8	2.211	3.057	11.4	15.5

220348 2003 HB_5 1 28.4 318.°02 1.°2/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.14	+18 20.5	1.655	2.470	15.6	20.2
1 2	9 0.78	+19 0.8	1.564	2.457	12.1	19.9
1 12	8 54.67	+19 52.7	1.495	2.443	7.8	19.7
1 22	8 46.40	+20 51.2	1.452	2.430	3.1	19.4
2 1	8 37.01	+21 49.5	1.436	2.418	2.5	19.3
2 11	8 27.86	+22 40.8	1.448	2.406	7.3	19.5
2 21	8 20.24	+23 20.4	1.485	2.394	11.9	19.8
3 2	8 15.16	+23 46.1	1.545	2.383	15.9	20.0

470432 2007 VC_{322} 1 28.5 59.°01 3.°5/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.66	+25 22.7	2.213	3.022	12.4	20.7
1 2	9 0.43	+26 33.4	2.140	3.029	9.5	20.5
1 12	8 54.01	+27 47.6	2.093	3.036	6.3	20.3
1 22	8 46.01	+28 59.1	2.074	3.044	3.8	20.2
2 1	8 37.29	+30 1.4	2.084	3.051	4.2	20.2
2 11	8 28.91	+30 49.9	2.124	3.059	7.1	20.4
2 21	8 21.80	+31 22.3	2.190	3.067	10.1	20.6
3 2	8 16.71	+31 38.7	2.280	3.075	12.9	20.8

354506 2004 PT_{45} 1 28.5 167.°17 1.°3/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.78	+19 40.1	1.890	2.686	14.7	22.1
1 2	9 6.10	+20 13.0	1.809	2.691	11.3	21.8
1 12	8 57.80	+20 53.4	1.752	2.695	7.3	21.6
1 22	8 47.57	+21 36.2	1.721	2.699	3.0	21.3
2 1	8 36.45	+22 15.7	1.721	2.702	2.4	21.3
2 11	8 25.76	+22 47.1	1.750	2.704	6.6	21.6
2 21	8 16.66	+23 7.6	1.807	2.706	10.7	21.8
3 2	8 10.02	+23 16.8	1.888	2.707	14.2	22.0

164195 2004 CT_{13} 1 28.5 41.°01 0.°1/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.41	+16 25.1	1.887	2.690	14.5	19.9
1 2	9 0.32	+16 49.8	1.818	2.703	11.1	19.7
1 12	8 53.96	+17 24.2	1.772	2.717	7.1	19.5
1 22	8 45.99	+18 4.2	1.752	2.731	2.8	19.3
2 1	8 37.36	+18 45.2	1.761	2.745	1.6	19.2
2 11	8 29.20	+19 22.4	1.799	2.759	5.9	19.5
2 21	8 22.47	+19 52.5	1.864	2.774	9.7	19.8
3 2	8 17.88	+20 13.6	1.953	2.790	13.1	20.0

139720 2001 QM_{241} 1 28.5 155.°23 1.°5/29.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.69	+11 20.7	2.744	3.512	11.4	21.0
1 2	8 59.10	+11 34.0	2.656	3.518	8.9	20.9
1 12	8 52.88	+11 56.6	2.592	3.523	6.0	20.7
1 22	8 45.51	+12 26.9	2.557	3.528	3.0	20.5
2 1	8 37.62	+13 2.2	2.552	3.533	1.7	20.4
2 11	8 29.96	+13 39.3	2.578	3.537	4.4	20.6
2 21	8 23.22	+14 15.4	2.633	3.541	7.4	20.8
3 2	8 17.96	+14 47.9	2.715	3.545	10.0	21.0

151579 2002 TQ_{255} 1 28.5 74.°89 2.°0/27.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.94	+20 30.8	1.310	2.130	18.7	20.5
1 2	9 7.71	+21 5.6	1.255	2.150	14.3	20.3
1 12	8 59.09	+21 48.9	1.221	2.169	9.1	20.0
1 22	8 48.09	+22 33.6	1.211	2.189	3.8	19.8
2 1	8 36.24	+23 11.8	1.228	2.209	3.2	19.8
2 11	8 25.31	+23 37.6	1.272	2.229	8.3	20.1
2 21	8 16.74	+23 48.9	1.341	2.248	13.0	20.5
3 2	8 11.44	+23 46.5	1.431	2.267	17.0	20.8

381689 2009 CK_{14} 1 28.5 9.°01 10.°8/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 24.90	+47 46.8	1.736	2.514	16.5	19.9
1 2	9 16.90	+48 14.0	1.675	2.517	14.2	19.7
1 12	9 4.92	+48 22.3	1.635	2.520	12.1	19.6
1 22	8 50.32	+48 1.3	1.619	2.525	10.9	19.5
2 1	8 35.10	+47 4.9	1.628	2.530	11.2	19.6
2 11	8 21.44	+45 34.1	1.663	2.536	12.9	19.7
2 21	8 10.89	+43 36.2	1.722	2.543	15.1	19.8
3 2	8 4.24	+41 20.9	1.803	2.551	17.4	20.0

198948 2005 UB_{308} 1 28.5 241.°50 0.°9/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.84	+18 25.1	1.521	2.332	17.0	21.8
1 2	9 5.32	+18 50.9	1.437	2.327	13.1	21.5
1 12	8 57.69	+19 27.5	1.374	2.321	8.5	21.2
1 22	8 47.65	+20 9.8	1.337	2.315	3.4	20.9
2 1	8 36.41	+20 51.0	1.327	2.310	2.4	20.8
2 11	8 25.56	+21 25.1	1.345	2.303	7.6	21.1
2 21	8 16.55	+21 48.2	1.388	2.297	12.5	21.4
3 2	8 10.45	+21 58.9	1.453	2.291	16.7	21.6

361871 2008 FJ_{12} 1 28.5 137.°03 8.°6/ 6.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.32	−13 46.7	2.348	2.984	16.3	21.3
1 2	9 1.36	−13 38.7	2.261	2.996	14.4	21.2
1 12	8 54.46	−13 3.7	2.192	3.008	12.3	21.0
1 22	8 46.18	−11 59.8	2.146	3.020	10.2	20.9
2 1	8 37.28	−10 27.7	2.127	3.031	8.8	20.8
2 11	8 28.67	− 8 32.3	2.136	3.041	8.8	20.9
2 21	8 21.20	− 6 21.0	2.174	3.051	10.2	21.0
3 2	8 15.53	− 4 2.7	2.239	3.060	12.2	21.1

483036 2015 FY_{340} 1 28.5 133.°09 16.°6/ 3.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.26	−11 39.6	1.277	1.979	25.0	20.9
1 2	9 8.31	−14 10.6	1.211	1.985	22.6	20.7
1 12	8 59.84	−16 11.1	1.161	1.990	20.0	20.5
1 22	8 48.58	−17 30.1	1.129	1.996	17.8	20.4
2 1	8 35.91	−17 59.5	1.116	2.001	16.7	20.3
2 11	8 23.66	−17 38.7	1.125	2.006	17.0	20.4
2 21	8 13.53	−16 35.3	1.153	2.010	18.7	20.5
3 2	8 6.76	−15 2.1	1.200	2.014	21.0	20.6

19344 1997 AD_{14} 1 28.5 101.°76 1.°0/29.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.10	+14 45.5	2.033	2.820	14.2	18.7
1 2	9 2.95	+14 43.7	1.956	2.831	11.0	18.5
1 12	8 55.58	+14 50.7	1.903	2.842	7.2	18.3
1 22	8 46.64	+15 4.3	1.877	2.852	3.2	18.1
2 1	8 37.05	+15 21.4	1.880	2.863	1.6	18.0
2 11	8 27.90	+15 38.5	1.913	2.873	5.5	18.2
2 21	8 20.14	+15 53.0	1.974	2.883	9.3	18.5
3 2	8 14.49	+16 3.2	2.059	2.893	12.6	18.7

105624 2000 ST_3 1 28.5 49.°74 5.°9/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.66	+29 22.7	1.553	2.377	16.1	18.3
1 2	9 4.97	+30 41.5	1.506	2.399	12.4	18.1
1 12	8 57.22	+31 59.5	1.481	2.422	8.7	18.0
1 22	8 47.34	+33 7.1	1.482	2.446	6.1	17.9
2 1	8 36.70	+33 55.8	1.511	2.469	6.7	18.0
2 11	8 26.87	+34 21.1	1.565	2.493	9.7	18.2
2 21	8 19.15	+34 23.3	1.644	2.518	13.1	18.4
3 2	8 14.37	+34 5.6	1.744	2.542	16.1	18.7

157912 1999 TG_{255} 1 28.5 94.°35 1.°3/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.71	+20 26.1	2.014	2.816	13.8	21.1
1 2	9 2.78	+20 49.0	1.938	2.824	10.5	20.9
1 12	8 55.54	+21 17.6	1.886	2.832	6.7	20.6
1 22	8 46.64	+21 47.6	1.862	2.839	2.8	20.4
2 1	8 37.05	+22 14.5	1.866	2.847	2.2	20.4
2 11	8 27.89	+22 34.4	1.900	2.855	6.1	20.6
2 21	8 20.18	+22 45.2	1.962	2.863	9.8	20.9
3 2	8 14.65	+22 46.6	2.047	2.870	13.1	21.1

133189 2003 QM_{54} 1 28.5 153.°06 1.°2/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.28	+19 16.7	2.043	2.836	13.9	21.0
1 2	9 4.75	+19 56.9	1.965	2.845	10.6	20.8
1 12	8 56.83	+20 44.7	1.910	2.854	6.8	20.6
1 22	8 47.17	+21 35.0	1.884	2.862	2.8	20.3
2 1	8 36.75	+22 22.2	1.888	2.868	2.3	20.3
2 11	8 26.72	+23 1.7	1.921	2.875	6.2	20.6
2 21	8 18.14	+23 30.6	1.983	2.880	10.0	20.8
3 2	8 11.80	+23 47.9	2.070	2.885	13.2	21.1

2814 Vieira 1 28.5 149.°99 0.°5/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.35	+14 47.8	2.252	3.038	13.0	17.1
1 2	9 0.77	+15 8.8	2.167	3.042	10.0	16.9
1 12	8 54.17	+15 39.2	2.106	3.045	6.6	16.7
1 22	8 46.10	+16 16.1	2.072	3.049	2.8	16.5
2 1	8 37.36	+16 55.6	2.068	3.052	1.4	16.4
2 11	8 28.92	+17 33.8	2.095	3.055	5.2	16.7
2 21	8 21.65	+18 7.3	2.150	3.057	8.8	16.9
3 2	8 16.24	+18 34.1	2.230	3.060	11.9	17.1

463807 2014 SS_{336} 1 28.5 347.°97 6.°4/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.30	+31 9.8	1.648	2.469	15.4	21.1
1 2	9 4.94	+32 22.1	1.576	2.467	12.1	20.9
1 12	8 57.43	+33 34.1	1.527	2.465	8.8	20.7
1 22	8 47.55	+34 36.2	1.504	2.464	6.5	20.5
2 1	8 36.56	+35 19.7	1.508	2.462	7.3	20.6
2 11	8 26.10	+35 39.2	1.538	2.461	10.2	20.7
2 21	8 17.59	+35 34.3	1.592	2.461	13.7	21.0
3 2	8 12.06	+35 8.1	1.667	2.460	16.9	21.2

348661 2006 AR_{13} 1 28.5 7.°13 0.°4/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.66	+14 54.7	1.488	2.307	16.9	20.0
1 2	8 58.96	+15 48.3	1.414	2.308	13.0	19.7
1 12	8 53.50	+16 58.4	1.361	2.309	8.4	19.5
1 22	8 45.96	+18 19.3	1.333	2.312	3.3	19.2
2 1	8 37.44	+19 42.9	1.333	2.316	2.0	19.1
2 11	8 29.32	+21 0.7	1.359	2.321	7.2	19.4
2 21	8 22.87	+22 6.1	1.411	2.326	11.8	19.7
3 2	8 19.02	+22 55.6	1.485	2.333	15.8	20.0

258520 2002 AS_{186} 1 28.5 356.°37 2.°2/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.91	+11 26.4	1.514	2.321	17.3	20.0
1 2	8 59.84	+11 31.3	1.434	2.317	13.6	19.8
1 12	8 54.04	+11 52.5	1.374	2.315	9.3	19.5
1 22	8 46.17	+12 28.0	1.339	2.313	4.6	19.3
2 1	8 37.32	+13 13.2	1.330	2.312	2.5	19.1
2 11	8 28.85	+14 2.4	1.348	2.312	6.8	19.4
2 21	8 21.99	+14 49.5	1.391	2.313	11.4	19.6
3 2	8 17.70	+15 30.2	1.456	2.314	15.5	19.9

191153 2002 HS_4 1 28.5 31°.27 19°.2/13.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 1.49	−22 10.9	1.033	1.719	30.7	19.3
1 2	8 59.84	−23 21.0	0.974	1.725	28.4	19.1
1 12	8 54.60	−23 37.4	0.925	1.731	25.7	18.9
1 22	8 46.54	−22 48.3	0.887	1.739	22.9	18.7
2 1	8 37.11	−20 46.6	0.864	1.747	20.5	18.6
2 11	8 28.24	−17 37.4	0.859	1.756	19.3	18.6
2 21	8 21.66	−13 38.5	0.874	1.766	19.8	18.6
3 2	8 18.59	− 9 15.4	0.908	1.776	21.8	18.8

419004 2009 PG_2 1 28.5 136°.12 0°.6/28.8 18

12 23	9 10.26	+16 12.1	2.270	3.049	13.1	21.6
1 2	9 4.37	+16 9.4	2.190	3.062	10.1	21.4
1 12	8 56.39	+16 13.4	2.135	3.073	6.6	21.2
1 22	8 46.96	+16 21.7	2.108	3.084	2.8	21.0
2 1	8 36.95	+16 31.6	2.112	3.095	1.4	20.9
2 11	8 27.35	+16 40.3	2.146	3.105	5.2	21.1
2 21	8 19.06	+16 45.9	2.210	3.114	8.7	21.4
3 2	8 12.75	+16 47.3	2.299	3.123	11.8	21.6

378924 2008 UW_{109} 1 28.5 113°.51 2°.3/30.1 18

12 23	9 6.22	+ 9 41.3	2.454	3.217	12.7	22.0
1 2	9 1.12	+ 9 38.1	2.377	3.234	10.0	21.9
1 12	8 54.22	+ 9 45.7	2.324	3.250	6.9	21.7
1 22	8 46.08	+10 2.5	2.298	3.266	3.8	21.5
2 1	8 37.44	+10 26.5	2.303	3.281	2.4	21.5
2 11	8 29.15	+10 54.4	2.338	3.296	4.9	21.6
2 21	8 21.96	+11 23.3	2.402	3.311	7.9	21.9
3 2	8 16.47	+11 50.6	2.493	3.325	10.7	22.1

108701 2001 OF_{16} 1 28.5 62°.10 3°.0/26.1 18

12 23	9 4.99	+23 21.6	2.119	2.927	12.9	18.8
1 2	9 0.70	+24 34.7	2.053	2.942	9.8	18.6
1 12	8 54.21	+25 52.7	2.012	2.957	6.4	18.5
1 22	8 46.14	+27 9.1	1.999	2.972	3.4	18.3
2 1	8 37.39	+28 17.5	2.016	2.987	3.8	18.4
2 11	8 29.03	+29 12.6	2.062	3.003	6.9	18.6
2 21	8 22.01	+29 51.9	2.135	3.018	10.1	18.8
3 2	8 17.06	+30 15.2	2.232	3.033	12.9	19.0

102401 1999 TY_{169} 1 28.5 197°.78 1°.6/29.5 18

12 23	9 5.69	+12 11.8	2.233	3.012	13.3	20.2
1 2	9 1.07	+12 17.7	2.142	3.010	10.4	20.0
1 12	8 54.40	+12 34.3	2.074	3.009	7.0	19.8
1 22	8 46.22	+12 59.6	2.034	3.007	3.4	19.6
2 1	8 37.34	+13 30.6	2.023	3.005	1.9	19.4
2 11	8 28.71	+14 3.7	2.042	3.002	5.2	19.7
2 21	8 21.23	+14 35.5	2.089	3.000	8.8	19.9
3 2	8 15.61	+15 3.3	2.162	2.997	12.0	20.1

462944 2011 BO_{152} 1 28.5 230°.79 0°.5/28.2 18

12 23	9 7.12	+18 29.8	2.004	2.803	13.9	21.9
1 2	9 2.42	+18 44.1	1.919	2.803	10.7	21.7
1 12	8 55.39	+19 5.5	1.858	2.802	6.9	21.5
1 22	8 46.65	+19 30.5	1.823	2.801	2.7	21.2
2 1	8 37.12	+19 54.9	1.818	2.801	1.7	21.2
2 11	8 27.95	+20 14.8	1.842	2.800	5.9	21.4
2 21	8 20.15	+20 27.9	1.893	2.799	9.9	21.7
3 2	8 14.52	+20 32.9	1.968	2.798	13.3	21.9

167531 2003 YQ_{155} 1 28.5 342°.68 0°.6/28.1 18

12 23	9 3.66	+18 22.5	1.795	2.607	14.8	19.8
1 2	9 0.11	+18 40.7	1.708	2.598	11.4	19.5
1 12	8 54.08	+19 7.6	1.644	2.591	7.4	19.3
1 22	8 46.17	+19 39.3	1.605	2.584	2.9	19.0
2 1	8 37.37	+20 11.0	1.595	2.578	1.9	18.9
2 11	8 28.89	+20 38.0	1.612	2.572	6.4	19.2
2 21	8 21.84	+20 57.1	1.656	2.567	10.7	19.4
3 2	8 17.09	+21 6.7	1.723	2.563	14.4	19.6

32920 1995 CH_2 1 28.5 322°.15 1°.3/29.1 18

12 23	9 4.96	+14 11.0	1.303	2.124	18.8	19.0
1 2	9 2.07	+14 13.5	1.216	2.109	14.8	18.7
1 12	8 55.89	+14 31.6	1.148	2.094	9.9	18.3
1 22	8 47.07	+15 2.7	1.103	2.081	4.4	18.0
2 1	8 36.84	+15 41.8	1.084	2.067	2.2	17.8
2 11	8 26.88	+16 22.1	1.090	2.055	7.9	18.1
2 21	8 18.81	+16 57.8	1.120	2.043	13.4	18.4
3 2	8 13.84	+17 24.8	1.170	2.033	18.2	18.6

281228 2007 HZ_{92} 1 28.5 199°.11 2°.1/27.1 18

12 23	9 6.38	+21 43.3	2.085	2.889	13.2	20.6
1 2	9 1.87	+22 27.7	2.002	2.889	10.1	20.4
1 12	8 55.05	+23 18.1	1.942	2.888	6.5	20.1
1 22	8 46.53	+24 9.4	1.911	2.887	3.0	19.9
2 1	8 37.21	+24 56.0	1.908	2.886	2.9	19.9
2 11	8 28.20	+25 33.2	1.935	2.885	6.5	20.1
2 21	8 20.51	+25 58.2	1.989	2.884	10.1	20.3
3 2	8 14.95	+26 10.5	2.068	2.882	13.3	20.5

3984 Chacos 1 28.5 103°.54 0°.8/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.26	+17 46.5	1.757	2.557	15.5	18.6
1 2	9 4.96	+18 24.1	1.691	2.575	11.9	18.4
1 12	8 57.06	+19 11.1	1.648	2.593	7.6	18.2
1 22	8 47.31	+20 2.3	1.632	2.610	3.0	18.0
2 1	8 36.83	+20 51.6	1.645	2.627	2.1	17.9
2 11	8 26.92	+21 33.5	1.687	2.644	6.5	18.2
2 21	8 18.70	+22 4.8	1.756	2.660	10.6	18.5
3 2	8 12.97	+22 24.4	1.848	2.675	14.1	18.8

488969 2005 UC_{287} 1 28.5 86°.49 5°.5/25.7 18

12 23	9 12.61	+27 12.5	1.400	2.224	17.5	21.5
1 2	9 7.68	+28 26.3	1.341	2.236	13.5	21.3
1 12	8 59.27	+29 43.0	1.304	2.249	9.2	21.1
1 22	8 48.30	+30 52.2	1.292	2.261	5.8	20.9
2 1	8 36.29	+31 43.9	1.307	2.273	6.4	21.0
2 11	8 25.06	+32 12.0	1.348	2.285	10.1	21.2
2 21	8 16.16	+32 16.1	1.413	2.297	14.1	21.5
3 2	8 10.59	+31 59.3	1.498	2.308	17.7	21.7

52545 1996 VW_{12} 1 28.5 34°.27 2°.9/26.7 18

12 23	9 5.59	+24 18.6	1.908	2.722	13.9	18.8
1 2	9 1.36	+25 0.8	1.841	2.733	10.6	18.6
1 12	8 54.72	+25 46.5	1.798	2.744	6.9	18.4
1 22	8 46.37	+26 29.9	1.781	2.755	3.6	18.2
2 1	8 37.34	+27 5.3	1.792	2.767	3.7	18.2
2 11	8 28.79	+27 28.6	1.832	2.779	7.1	18.5
2 21	8 21.77	+27 38.0	1.899	2.792	10.6	18.7
3 2	8 17.03	+27 34.2	1.988	2.805	13.7	18.9

47849 2000 EY_{135} 1 28.5 108°.15 2°.4/26.7 18

12 23	9 6.02	+23 10.7	2.315	3.116	12.2	18.9
1 2	9 1.30	+24 0.9	2.241	3.126	9.3	18.7
1 12	8 54.52	+24 55.2	2.192	3.136	6.0	18.6
1 22	8 46.27	+25 48.4	2.171	3.146	3.0	18.4
2 1	8 37.38	+26 35.4	2.181	3.156	3.1	18.4
2 11	8 28.85	+27 12.1	2.220	3.165	6.2	18.6
2 21	8 21.55	+27 36.5	2.287	3.174	9.3	18.8
3 2	8 16.17	+27 48.4	2.379	3.183	12.1	19.0

218038 2002 AE_{137} 1 28.5 64°.95 1°.1/29.1 18

12 23	9 6.97	+14 9.0	1.807	2.602	15.4	20.3
1 2	9 2.41	+14 13.4	1.732	2.611	11.9	20.1
1 12	8 55.42	+14 28.9	1.679	2.619	7.9	19.9
1 22	8 46.67	+14 52.7	1.652	2.628	3.5	19.6
2 1	8 37.18	+15 21.0	1.654	2.637	1.8	19.5
2 11	8 28.15	+15 49.4	1.684	2.646	6.0	19.8
2 21	8 20.62	+16 14.5	1.742	2.655	10.1	20.1
3 2	8 15.39	+16 33.7	1.823	2.664	13.6	20.3

521138 2015 FK_{332} 1 28.5 114°.78 5°.1/24.9 18

12 23	9 12.10	+17 38.7	1.182	2.006	20.1	20.6
1 2	9 8.07	+20 41.8	1.117	2.015	15.3	20.3
1 12	9 0.10	+24 11.0	1.075	2.025	9.9	20.0
1 22	8 48.87	+27 48.1	1.060	2.034	5.4	19.8
2 1	8 35.90	+31 10.0	1.074	2.043	6.9	19.9
2 11	8 23.31	+33 57.3	1.116	2.051	11.9	20.2
2 21	8 13.13	+36 1.4	1.182	2.059	16.8	20.5
3 2	8 6.81	+37 23.3	1.268	2.067	20.9	20.8

37238 2000 WY_{167} 1 28.5 173°.31 1°.0/29.1 18

12 23	9 9.37	+13 14.0	2.083	2.861	14.1	20.6
1 2	9 4.03	+13 36.1	1.995	2.865	11.0	20.4
1 12	8 56.40	+14 9.8	1.931	2.868	7.3	20.1
1 22	8 47.08	+14 52.0	1.895	2.870	3.2	19.9
2 1	8 36.96	+15 38.4	1.889	2.872	1.6	19.8
2 11	8 27.15	+16 24.3	1.913	2.873	5.6	20.1
2 21	8 18.64	+17 5.8	1.966	2.873	9.5	20.3
3 2	8 12.25	+17 40.2	2.043	2.872	12.9	20.5

15208 1979 MW_1 1 28.5 96°.16 2°.3/29.8 18

12 23	9 8.30	+10 45.2	1.945	2.723	15.1	18.9
1 2	9 3.14	+10 44.5	1.875	2.741	11.8	18.7
1 12	8 55.74	+10 56.5	1.827	2.759	8.0	18.5
1 22	8 46.76	+11 19.3	1.806	2.776	4.1	18.3
2 1	8 37.17	+11 49.5	1.813	2.794	2.5	18.2
2 11	8 28.05	+12 23.1	1.850	2.811	5.7	18.4
2 21	8 20.38	+12 56.2	1.915	2.827	9.4	18.7
3 2	8 14.85	+13 25.7	2.005	2.844	12.7	18.9

1787 Chiny 1 28.5 273°.96 0°.1/28.5 18

12 23	9 6.98	+17 55.6	2.223	3.015	12.9	16.2
1 2	9 2.11	+17 54.2	2.131	3.010	10.0	16.0
1 12	8 55.10	+17 58.6	2.063	3.005	6.5	15.8
1 22	8 46.54	+18 6.4	2.023	3.001	2.6	15.5
2 1	8 37.26	+18 14.6	2.012	2.996	1.4	15.4
2 11	8 28.27	+18 20.4	2.032	2.991	5.4	15.7
2 21	8 20.51	+18 21.9	2.079	2.986	9.1	15.9
3 2	8 14.71	+18 18.2	2.152	2.981	12.3	16.1

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
276757 2004 FK_{145}			1 28.5 205°.43		7°.0/22.7 17	
	h m	° ′			°	m
12 23	9 14.87	+44 31.7	2.961	3.729	10.6	21.4
1 2	9 8.04	+45 22.6	2.887	3.725	9.0	21.3
1 12	8 58.86	+46 4.0	2.836	3.720	7.6	21.2
1 22	8 48.01	+46 30.1	2.813	3.714	7.0	21.1
2 1	8 36.48	+46 36.1	2.819	3.708	7.5	21.1
2 11	8 25.41	+46 20.3	2.852	3.702	8.8	21.2
2 21	8 15.83	+45 44.2	2.910	3.695	10.5	21.3
3 2	8 8.49	+44 51.1	2.991	3.688	12.2	21.4
406082 2006 UM_{144}			1 28.5 73°.89		4°.6/26.1 18	
12 23	9 11.88	+28 0.0	1.674	2.489	15.5	21.5
1 2	9 6.46	+28 52.1	1.617	2.507	11.9	21.3
1 12	8 58.13	+29 44.4	1.583	2.525	8.1	21.1
1 22	8 47.76	+30 29.0	1.575	2.543	5.0	20.9
2 1	8 36.65	+30 59.0	1.595	2.561	5.4	21.0
2 11	8 26.28	+31 10.5	1.642	2.579	8.6	21.2
2 21	8 17.91	+31 3.4	1.715	2.597	12.2	21.5
3 2	8 12.36	+30 40.4	1.811	2.615	15.3	21.7
170198 2003 OD_{10}			1 28.5 132°.64		0°.4/28.7 18	
12 23	9 11.85	+16 28.7	1.836	2.626	15.3	20.3
1 2	9 6.10	+16 30.3	1.760	2.637	11.8	20.1
1 12	8 57.78	+16 40.4	1.707	2.648	7.7	19.8
1 22	8 47.62	+16 55.9	1.680	2.657	3.2	19.6
2 1	8 36.70	+17 12.8	1.683	2.667	1.6	19.5
2 11	8 26.30	+17 27.4	1.716	2.676	6.1	19.8
2 21	8 17.54	+17 37.4	1.776	2.684	10.3	20.0
3 2	8 11.21	+17 41.4	1.860	2.692	13.8	20.3
354138 2002 CZ_{71}			1 28.5 35°.85		4°.4/27.6 18	
12 23	9 18.00	+28 23.5	1.019	1.857	21.6	19.5
1 2	9 12.16	+28 11.4	0.978	1.880	16.6	19.3
1 12	9 2.11	+27 55.9	0.955	1.904	11.0	19.1
1 22	8 49.31	+27 29.6	0.955	1.930	5.7	18.9
2 1	8 35.93	+26 47.7	0.980	1.957	5.2	18.9
2 11	8 24.22	+25 50.3	1.029	1.984	9.9	19.3
2 21	8 15.78	+24 42.1	1.101	2.013	14.8	19.7
3 2	8 11.34	+23 28.0	1.193	2.042	18.9	20.0
226447 2003 SM_{74}			1 28.5 21°.36		1°.1/29.1 18	
12 23	9 4.87	+14 11.3	1.803	2.603	15.2	20.2
1 2	9 0.87	+14 16.2	1.725	2.607	11.8	20.0
1 12	8 54.47	+14 32.3	1.670	2.611	7.8	19.8
1 22	8 46.32	+14 56.9	1.640	2.616	3.5	19.5
2 1	8 37.40	+15 26.3	1.638	2.621	1.7	19.4
2 11	8 28.89	+15 55.9	1.664	2.627	6.0	19.7
2 21	8 21.83	+16 22.3	1.717	2.633	10.1	19.9
3 2	8 17.02	+16 42.7	1.794	2.639	13.7	20.2
331951 2004 TB_{343}			1 28.5 230°.90		7°.2/ 2.4 18	
12 23	9 4.50	− 4 31.0	2.383	3.083	14.6	20.9
1 2	9 0.12	− 5 8.6	2.281	3.074	12.6	20.7
1 12	8 53.81	− 5 28.1	2.200	3.065	10.3	20.5
1 22	8 46.05	− 5 27.1	2.144	3.056	8.3	20.4
2 1	8 37.53	− 5 5.1	2.114	3.046	7.2	20.3
2 11	8 29.15	− 4 24.1	2.112	3.036	7.9	20.3
2 21	8 21.73	− 3 28.3	2.137	3.025	9.8	20.4
3 2	8 16.00	− 2 23.1	2.188	3.014	12.2	20.5
519022 2010 JS_{132}			1 28.5 263°.30		3°.9/31.1 17	
12 23	9 3.60	+ 5 21.2	2.358	3.111	13.4	21.6
1 2	8 59.46	+ 5 10.9	2.254	3.099	10.9	21.4
1 12	8 53.39	+ 5 14.5	2.173	3.087	8.0	21.2
1 22	8 45.88	+ 5 32.0	2.118	3.075	5.2	21.0
2 1	8 37.63	+ 6 1.8	2.092	3.062	3.9	20.9
2 11	8 29.51	+ 6 40.9	2.095	3.049	5.7	21.0
2 21	8 22.37	+ 7 25.6	2.127	3.037	8.7	21.1
3 2	8 16.92	+ 8 11.6	2.184	3.024	11.8	21.3
296890 2010 BA_{5}			1 28.5 74°.55		0°.3/28.6 18	
12 23	9 8.68	+17 47.3	2.069	2.861	13.8	20.5
1 2	9 3.44	+17 38.4	1.988	2.867	10.6	20.2
1 12	8 55.96	+17 35.4	1.931	2.873	6.9	20.0
1 22	8 46.88	+17 35.9	1.901	2.878	2.8	19.8
2 1	8 37.14	+17 37.0	1.900	2.884	1.5	19.7
2 11	8 27.82	+17 36.2	1.930	2.890	5.6	20.0
2 21	8 19.90	+17 31.8	1.987	2.895	9.4	20.2
3 2	8 14.11	+17 23.1	2.070	2.901	12.6	20.4
9067 Katsuno			1 28.5 164°.59		3°.2/26.3 18	
12 23	9 9.11	+26 54.6	2.399	3.197	11.9	17.4
1 2	9 3.66	+27 35.8	2.320	3.202	9.1	17.3
1 12	8 56.07	+28 18.0	2.265	3.205	6.1	17.1
1 22	8 46.92	+28 55.9	2.239	3.209	3.6	16.9
2 1	8 37.11	+29 24.9	2.243	3.212	3.9	16.9
2 11	8 27.65	+29 41.5	2.277	3.214	6.6	17.1
2 21	8 19.48	+29 44.8	2.339	3.216	9.5	17.3
3 2	8 13.31	+29 35.5	2.425	3.218	12.2	17.5

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
217048 2001 QZ_{189}			1 28.5 229°.02		4°.3/30.5 18	
	h m	° ′			°	m
12 23	9 9.32	+ 7 8.5	2.114	2.871	14.7	20.4
1 2	9 4.02	+ 6 29.4	2.014	2.862	11.9	20.2
1 12	8 56.44	+ 6 2.1	1.936	2.853	8.7	20.0
1 22	8 47.14	+ 5 47.3	1.885	2.843	5.6	19.8
2 1	8 36.97	+ 5 44.5	1.863	2.833	4.3	19.7
2 11	8 26.99	+ 5 51.8	1.871	2.823	6.5	19.8
2 21	8 18.23	+ 6 6.2	1.906	2.812	9.8	20.0
3 2	8 11.50	+ 6 24.6	1.967	2.801	13.1	20.2
19917 Dazaifu			1 28.5 303°.31		0°.1/28.5 18	R
12 23	9 3.41	+17 5.7	2.530	3.320	11.6	18.6
1 2	8 59.16	+17 19.8	2.438	3.316	8.9	18.4
1 12	8 53.10	+17 40.4	2.370	3.312	5.8	18.2
1 22	8 45.73	+18 5.1	2.331	3.308	2.3	18.0
2 1	8 37.75	+18 30.7	2.321	3.305	1.3	17.9
2 11	8 30.00	+18 54.1	2.342	3.301	4.8	18.2
2 21	8 23.26	+19 12.9	2.391	3.297	8.1	18.4
3 2	8 18.15	+19 25.8	2.466	3.293	11.0	18.5
112555 2002 PF_{45}			1 28.5 98°.67		3°.3/26.9 18	
12 23	9 13.27	+22 42.4	1.450	2.265	17.5	19.8
1 2	9 7.89	+23 39.4	1.391	2.283	13.3	19.6
1 12	8 59.26	+24 43.2	1.353	2.300	8.6	19.4
1 22	8 48.29	+25 45.4	1.341	2.317	4.2	19.1
2 1	8 36.40	+26 37.1	1.357	2.333	4.3	19.2
2 11	8 25.29	+27 12.2	1.400	2.349	8.6	19.5
2 21	8 16.37	+27 28.8	1.469	2.365	12.9	19.8
3 2	8 10.58	+27 28.4	1.559	2.380	16.6	20.0
54786 2001 MJ_{4}			1 28.5 165°.75		2°.7/26.8 18	
12 23	9 11.39	+21 43.8	1.789	2.593	15.1	20.0
1 2	9 6.10	+22 46.9	1.711	2.598	11.6	19.7
1 12	8 58.01	+23 57.9	1.657	2.602	7.5	19.5
1 22	8 47.81	+25 9.7	1.630	2.606	3.6	19.3
2 1	8 36.62	+26 14.4	1.633	2.609	3.7	19.3
2 11	8 25.82	+27 5.5	1.664	2.611	7.6	19.5
2 21	8 16.70	+27 40.0	1.723	2.613	11.6	19.8
3 2	8 10.20	+27 57.7	1.804	2.614	15.1	20.0
65135 2002 CH_{99}			1 28.5 349°.92		0°.2/28.6 18	
12 23	9 4.24	+15 2.8	1.765	2.569	15.3	19.3
1 2	9 0.57	+15 36.6	1.682	2.567	11.8	19.1
1 12	8 54.40	+16 23.2	1.621	2.565	7.7	18.8
1 22	8 46.36	+17 18.7	1.586	2.563	3.1	18.6
2 1	8 37.40	+18 17.4	1.579	2.562	1.6	18.4
2 11	8 28.77	+19 13.1	1.600	2.561	6.3	18.7
2 21	8 21.57	+20 1.0	1.648	2.560	10.6	19.0
3 2	8 16.69	+20 38.1	1.719	2.560	14.4	19.2
405181 2002 XA_{22}			1 28.5 47°.11		2°.3/29.5 18	
12 23	9 9.55	+12 29.3	1.365	2.170	18.9	20.9
1 2	9 4.76	+12 18.6	1.314	2.197	14.7	20.7
1 12	8 57.04	+12 23.0	1.284	2.224	9.8	20.5
1 22	8 47.33	+12 39.7	1.277	2.251	4.7	20.3
2 1	8 36.97	+13 4.4	1.297	2.279	2.6	20.2
2 11	8 27.49	+13 31.9	1.344	2.308	7.0	20.6
2 21	8 20.08	+13 57.7	1.417	2.336	11.5	20.9
3 2	8 15.51	+14 18.6	1.512	2.365	15.3	21.2
117055 2004 JT_{44}			1 28.5 205°.28		0°.8/27.9 18	
12 23	9 3.39	+18 37.2	2.729	3.520	10.8	20.1
1 2	8 59.06	+19 13.5	2.638	3.517	8.3	19.9
1 12	8 53.00	+19 56.0	2.571	3.514	5.3	19.7
1 22	8 45.69	+20 41.4	2.533	3.511	2.1	19.5
2 1	8 37.79	+21 26.0	2.526	3.508	1.6	19.4
2 11	8 30.09	+22 6.1	2.550	3.505	4.8	19.7
2 21	8 23.30	+22 39.2	2.603	3.501	7.9	19.9
3 2	8 18.05	+23 3.7	2.682	3.497	10.5	20.0
267340 2001 VC_{86}			1 28.5 138°.49		2°.3/30.1 17	
12 23	9 4.08	+ 9 58.0	2.476	3.244	12.4	20.8
1 2	8 59.62	+ 9 51.2	2.387	3.246	9.8	20.6
1 12	8 53.38	+ 9 54.9	2.321	3.248	6.8	20.4
1 22	8 45.85	+10 7.8	2.282	3.250	3.8	20.2
2 1	8 37.74	+10 28.0	2.274	3.252	2.4	20.1
2 11	8 29.88	+10 52.7	2.295	3.254	4.9	20.3
2 21	8 23.03	+11 18.9	2.345	3.255	8.0	20.5
3 2	8 17.81	+11 44.0	2.421	3.257	10.9	20.7
228672 2002 JP_{61}			1 28.5 292°.54		6°.7/23.5 18	
12 23	9 7.87	+32 55.8	1.935	2.749	13.7	19.9
1 2	9 3.72	+34 26.1	1.850	2.734	11.0	19.7
1 12	8 56.70	+35 56.6	1.788	2.719	8.3	19.5
1 22	8 47.38	+37 18.2	1.753	2.703	6.8	19.4
2 1	8 36.84	+38 21.9	1.746	2.688	7.7	19.4
2 11	8 26.51	+39 1.7	1.766	2.673	10.3	19.5
2 21	8 17.76	+39 15.8	1.811	2.658	13.3	19.7
3 2	8 11.66	+39 6.5	1.876	2.643	16.2	19.9

500461 2012 TL_{213} 1 28.5 143°.73 0°.6/28.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.92	+18 41.0	2.804	3.590	10.7	22.6
1 2	9 0.07	+19 5.6	2.721	3.598	8.2	22.4
1 12	8 53.57	+19 35.3	2.664	3.606	5.2	22.2
1 22	8 45.90	+20 7.2	2.636	3.614	2.1	22.0
2 1	8 37.73	+20 38.1	2.639	3.621	1.4	22.0
2 11	8 29.82	+21 5.0	2.672	3.628	4.5	22.2
2 21	8 22.88	+21 26.0	2.736	3.634	7.5	22.4
3 2	8 17.47	+21 39.9	2.825	3.641	10.1	22.6

64182 2001 TB_{65} 1 28.5 166°.83 5°.2/24.4 18

12 23	9 7.78	+33 26.7	2.508	3.309	11.4	19.4
1 2	9 2.76	+34 27.2	2.434	3.311	9.0	19.2
1 12	8 55.55	+35 25.0	2.384	3.312	6.7	19.1
1 22	8 46.76	+36 13.9	2.363	3.313	5.2	19.0
2 1	8 37.26	+36 48.6	2.370	3.314	5.8	19.0
2 11	8 28.09	+37 5.9	2.406	3.315	7.8	19.2
2 21	8 20.22	+37 5.5	2.469	3.315	10.2	19.3
3 2	8 14.37	+36 49.0	2.555	3.316	12.5	19.5

110667 2001 TT_{189} 1 28.5 167°.00 0°.5/28.2 18

12 23	9 8.77	+18 28.3	2.054	2.848	13.8	20.3
1 2	9 3.63	+18 42.9	1.970	2.851	10.6	20.1
1 12	8 56.17	+19 4.4	1.910	2.853	6.8	19.9
1 22	8 47.02	+19 29.2	1.877	2.855	2.7	19.6
2 1	8 37.12	+19 53.2	1.874	2.856	1.7	19.6
2 11	8 27.57	+20 12.6	1.900	2.858	5.9	19.8
2 21	8 19.41	+20 25.2	1.954	2.858	9.7	20.1
3 2	8 13.41	+20 29.8	2.033	2.859	13.0	20.3

416970 2005 TN_{7} 1 28.5 145°.81 0°.3/28.3 18

12 23	9 8.01	+16 52.6	2.535	3.315	11.9	22.1
1 2	9 2.56	+17 27.1	2.455	3.328	9.1	22.0
1 12	8 55.24	+18 8.9	2.400	3.340	5.8	21.8
1 22	8 46.59	+18 54.4	2.374	3.352	2.3	21.6
2 1	8 37.36	+19 39.6	2.380	3.363	1.4	21.5
2 11	8 28.45	+20 20.7	2.417	3.373	4.9	21.8
2 21	8 20.64	+20 54.9	2.483	3.382	8.2	22.0
3 2	8 14.58	+21 20.8	2.576	3.390	11.0	22.2

453047 2007 TO_{59} 1 28.5 60°.78 1°.2/27.9 15

12 23	9 9.81	+18 50.0	1.414	2.231	17.7	21.3
1 2	9 5.17	+19 20.9	1.355	2.248	13.6	21.1
1 12	8 57.47	+20 1.7	1.317	2.265	8.7	20.9
1 22	8 47.58	+20 46.3	1.304	2.283	3.5	20.6
2 1	8 36.85	+21 27.9	1.318	2.300	2.5	20.6
2 11	8 26.88	+22 0.4	1.359	2.318	7.5	20.9
2 21	8 18.97	+22 20.8	1.426	2.336	12.1	21.2
3 2	8 14.01	+22 28.6	1.514	2.354	16.0	21.5

106092 2000 SK_{362} 1 28.5 15°.22 19°.1/21.1 18

12 23	9 21.57	+57 45.6	1.185	1.973	22.2	17.7
1 2	9 17.50	+59 34.7	1.163	1.983	20.6	17.6
1 12	9 6.83	+60 50.2	1.156	1.995	19.4	17.6
1 22	8 51.46	+61 16.5	1.166	2.009	19.1	17.6
2 1	8 34.94	+60 44.6	1.194	2.025	19.6	17.7
2 11	8 21.16	+59 17.1	1.238	2.043	20.7	17.8
2 21	8 12.43	+57 6.0	1.299	2.062	22.1	18.0
3 2	8 9.35	+54 25.8	1.374	2.084	23.6	18.2

28331 1999 CD_{156} 1 28.5 0°.85 3°.6/30.5 18

12 23	9 4.33	+ 8 27.6	1.977	2.753	14.9	18.4
1 2	9 0.27	+ 8 3.8	1.891	2.752	11.9	18.2
1 12	8 54.02	+ 7 53.0	1.826	2.752	8.5	18.0
1 22	8 46.17	+ 7 55.0	1.788	2.752	5.1	17.8
2 1	8 37.58	+ 8 8.2	1.777	2.752	3.6	17.7
2 11	8 29.29	+ 8 29.7	1.795	2.753	6.1	17.8
2 21	8 22.26	+ 8 55.8	1.840	2.754	9.6	18.1
3 2	8 17.25	+ 9 22.7	1.909	2.756	12.9	18.3

254636 2005 JN_{83} 1 28.5 113°.84 2°.0/29.9 18

12 23	9 9.06	+10 15.7	2.224	2.989	13.8	21.3
1 2	9 3.44	+10 28.0	2.153	3.013	10.8	21.1
1 12	8 55.82	+10 52.3	2.106	3.035	7.3	21.0
1 22	8 46.81	+11 26.3	2.087	3.057	3.7	20.8
2 1	8 37.27	+12 6.6	2.098	3.079	2.2	20.7
2 11	8 28.16	+12 49.1	2.140	3.099	5.1	20.9
2 21	8 20.34	+13 30.1	2.211	3.119	8.5	21.2
3 2	8 14.45	+14 6.7	2.308	3.138	11.5	21.4

440720 2006 AZ_{24} 1 28.5 73°.33 2°.1/27.4 17

12 23	9 11.27	+18 50.6	1.362	2.179	18.3	21.2
1 2	9 6.36	+19 57.1	1.310	2.204	13.9	21.0
1 12	8 58.26	+21 15.1	1.280	2.228	8.8	20.8
1 22	8 47.89	+22 35.8	1.275	2.253	3.7	20.5
2 1	8 36.70	+23 49.7	1.297	2.277	3.3	20.6
2 11	8 26.33	+24 49.0	1.346	2.301	8.1	20.9
2 21	8 18.16	+25 30.0	1.421	2.325	12.7	21.2
3 2	8 13.08	+25 52.8	1.517	2.348	16.5	21.5

450923 2008 EK_{5} 1 28.5 8°.68 3°.1/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	8 58.85	+18 50.8	1.057	1.910	19.8	19.4
1 2	8 57.80	+20 13.8	0.998	1.912	15.1	19.1
1 12	8 53.27	+21 54.3	0.960	1.916	9.7	18.9
1 22	8 46.06	+23 41.8	0.944	1.922	4.3	18.6
2 1	8 37.63	+25 22.8	0.951	1.931	4.6	18.6
2 11	8 29.86	+26 45.5	0.983	1.941	9.9	18.9
2 21	8 24.35	+27 43.0	1.036	1.952	15.0	19.3
3 2	8 22.19	+28 14.3	1.108	1.966	19.4	19.6

406199 2006 WQ_{200} 1 28.5 86°.64 0°.9/29.0 18

12 23	9 9.21	+13 43.4	1.842	2.630	15.4	22.0
1 2	9 3.94	+14 4.7	1.779	2.654	11.8	21.8
1 12	8 56.31	+14 37.8	1.739	2.678	7.8	21.6
1 22	8 47.04	+15 18.8	1.726	2.702	3.3	21.4
2 1	8 37.16	+16 3.0	1.742	2.725	1.6	21.3
2 11	8 27.85	+16 45.4	1.787	2.748	5.8	21.6
2 21	8 20.12	+17 22.3	1.860	2.770	9.8	21.9
3 2	8 14.67	+17 51.3	1.957	2.792	13.1	22.2

408863 2001 SJ_{283} 1 28.5 54°.70 7°.4/ 1.3 18

12 23	9 9.08	+ 1 2.2	1.598	2.351	18.8	19.9
1 2	9 4.03	+ 0 1.3	1.541	2.376	15.6	19.8
1 12	8 56.44	− 0 38.1	1.504	2.403	12.1	19.6
1 22	8 47.10	− 0 54.0	1.490	2.429	8.9	19.5
2 1	8 37.14	− 0 46.5	1.502	2.456	7.4	19.5
2 11	8 27.83	− 0 19.4	1.541	2.483	8.6	19.6
2 21	8 20.26	+ 0 21.3	1.605	2.510	11.4	19.8
3 2	8 15.16	+ 1 9.0	1.693	2.536	14.4	20.1

195644 2002 NC_{34} 1 28.5 113°.11 1°.2/27.6 18

12 23	9 7.43	+20 37.9	2.577	3.366	11.4	20.8
1 2	9 2.05	+21 7.2	2.507	3.386	8.7	20.6
1 12	8 54.85	+21 40.7	2.462	3.405	5.5	20.5
1 22	8 46.41	+22 14.7	2.446	3.423	2.3	20.3
2 1	8 37.49	+22 45.4	2.461	3.441	1.9	20.3
2 11	8 28.95	+23 9.9	2.506	3.459	5.1	20.5
2 21	8 21.56	+23 26.3	2.581	3.476	8.1	20.7
3 2	8 15.90	+23 34.2	2.682	3.492	10.7	20.9

469130 2015 EM_{18} 1 28.5 189°.00 3°.5/26.2 18

12 23	9 9.58	+28 58.1	2.486	3.283	11.6	21.6
1 2	9 3.98	+29 25.7	2.402	3.282	9.0	21.4
1 12	8 56.26	+29 52.2	2.344	3.281	6.1	21.2
1 22	8 47.03	+30 12.9	2.314	3.280	3.8	21.1
2 1	8 37.15	+30 23.6	2.314	3.279	4.1	21.1
2 11	8 27.64	+30 21.7	2.343	3.278	6.6	21.2
2 21	8 19.42	+30 7.0	2.401	3.276	9.4	21.4
3 2	8 13.18	+29 40.8	2.484	3.274	12.0	21.6

83860 2001 UO_{67} 1 28.5 270°.09 2°.6/26.6 17

12 23	9 5.37	+24 20.1	2.373	3.176	11.9	20.0
1 2	9 0.94	+25 1.6	2.281	3.167	9.1	19.8
1 12	8 54.42	+25 46.7	2.214	3.158	6.0	19.6
1 22	8 46.34	+26 30.5	2.176	3.149	3.1	19.4
2 1	8 37.50	+27 8.2	2.167	3.141	3.3	19.4
2 11	8 28.89	+27 35.9	2.188	3.132	6.3	19.6
2 21	8 21.43	+27 51.6	2.236	3.123	9.5	19.7
3 2	8 15.86	+27 55.0	2.309	3.114	12.4	19.9

457232 2008 KF_{43} 1 28.5 220°.50 2°.5/29.9 17

12 23	9 8.12	+10 39.2	2.368	3.133	13.0	21.5
1 2	9 2.87	+10 20.8	2.267	3.125	10.4	21.3
1 12	8 55.59	+10 11.9	2.190	3.117	7.2	21.1
1 22	8 46.80	+10 11.7	2.140	3.108	4.0	20.9
2 1	8 37.26	+10 18.8	2.121	3.099	2.6	20.8
2 11	8 27.92	+10 30.8	2.131	3.089	5.3	20.9
2 21	8 19.67	+10 45.0	2.171	3.079	8.7	21.1
3 2	8 13.22	+10 59.1	2.237	3.068	11.8	21.3

343008 2009 BV_{86} 1 28.5 266°.36 1°.1/27.9 17

12 23	9 7.24	+21 18.8	2.363	3.159	12.2	21.4
1 2	9 2.21	+21 24.7	2.274	3.156	9.3	21.2
1 12	8 55.14	+21 34.1	2.209	3.153	6.0	21.0
1 22	8 46.59	+21 43.8	2.172	3.150	2.5	20.7
2 1	8 37.39	+21 50.5	2.165	3.147	1.9	20.7
2 11	8 28.51	+21 51.8	2.189	3.144	5.4	20.9
2 21	8 20.81	+21 46.4	2.240	3.141	8.8	21.1
3 2	8 15.02	+21 34.0	2.317	3.138	11.8	21.3

493871 2015 XA_{101} 1 28.5 164°.98 0°.5/28.2 18

12 23	9 10.38	+16 12.9	1.894	2.685	14.9	22.3
1 2	9 5.09	+16 57.2	1.812	2.690	11.5	22.0
1 12	8 57.25	+17 52.8	1.753	2.696	7.4	21.8
1 22	8 47.51	+18 55.0	1.722	2.700	2.9	21.5
2 1	8 36.88	+19 57.4	1.721	2.704	1.8	21.5
2 11	8 26.60	+20 54.0	1.750	2.707	6.3	21.8
2 21	8 17.81	+21 40.7	1.806	2.709	10.5	22.0
3 2	8 11.39	+22 15.3	1.887	2.710	14.0	22.2

239370 2007 RH_{259} 1 28.5 97°.22 4°.0/31.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.41	+ 4 8.0	2.371	3.120	13.5	20.7
1 2	8 59.15	+ 4 3.7	2.288	3.129	10.9	20.6
1 12	8 53.09	+ 4 14.2	2.228	3.138	8.1	20.4
1 22	8 45.75	+ 4 39.1	2.194	3.148	5.3	20.2
2 1	8 37.85	+ 5 16.4	2.189	3.157	4.0	20.2
2 11	8 30.23	+ 6 2.6	2.213	3.166	5.5	20.3
2 21	8 23.65	+ 6 53.6	2.266	3.175	8.3	20.5
3 2	8 18.73	+ 7 45.1	2.344	3.184	11.0	20.7

424854 2008 UA_{339} 1 28.5 108°.43 4°.0/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.38	+ 5 5.3	2.452	3.196	13.2	22.0
1 2	9 1.27	+ 4 42.3	2.374	3.213	10.7	21.9
1 12	8 54.37	+ 4 32.1	2.320	3.229	7.9	21.7
1 22	8 46.24	+ 4 34.7	2.292	3.245	5.2	21.6
2 1	8 37.61	+ 4 48.8	2.294	3.261	4.0	21.5
2 11	8 29.31	+ 5 11.7	2.326	3.276	5.5	21.7
2 21	8 22.11	+ 5 40.3	2.386	3.291	8.2	21.8
3 2	8 16.58	+ 6 11.3	2.473	3.305	10.8	22.0

45751 2000 JH_{66} 1 28.5 237°.38 3°.1/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.90	+ 5 23.8	2.712	3.458	12.0	19.5
1 2	8 58.70	+ 5 32.3	2.604	3.447	9.7	19.3
1 12	8 52.81	+ 5 54.1	2.521	3.435	7.1	19.1
1 22	8 45.67	+ 6 28.5	2.464	3.422	4.4	18.9
2 1	8 37.88	+ 7 13.4	2.437	3.409	3.2	18.8
2 11	8 30.20	+ 8 5.7	2.441	3.396	4.9	18.9
2 21	8 23.35	+ 9 1.4	2.474	3.383	7.7	19.1
3 2	8 17.95	+ 9 56.7	2.534	3.369	10.5	19.2

355271 2007 PA_{48} 1 28.5 161°.74 0°.6/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.04	+16 22.8	1.823	2.619	15.2	21.2
1 2	9 4.17	+17 12.0	1.742	2.624	11.7	21.0
1 12	8 56.72	+18 13.2	1.684	2.628	7.5	20.8
1 22	8 47.31	+19 21.2	1.654	2.632	3.0	20.5
2 1	8 36.99	+20 29.3	1.653	2.635	2.0	20.4
2 11	8 27.03	+21 31.0	1.681	2.638	6.5	20.7
2 21	8 18.57	+22 21.6	1.736	2.640	10.8	21.0
3 2	8 12.53	+22 59.1	1.816	2.642	14.4	21.2

17769 1998 EM_{9} 1 28.5 17°.45 5°.8/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.89	+28 59.1	1.417	2.244	17.2	17.6
1 2	9 6.51	+29 57.6	1.349	2.245	13.4	17.4
1 12	8 58.65	+30 57.0	1.304	2.247	9.3	17.2
1 22	8 48.17	+31 47.8	1.282	2.249	6.2	17.0
2 1	8 36.55	+32 20.7	1.287	2.252	6.7	17.0
2 11	8 25.60	+32 30.3	1.318	2.255	10.3	17.2
2 21	8 16.92	+32 16.6	1.372	2.258	14.3	17.5
3 2	8 11.56	+31 43.1	1.446	2.261	17.9	17.7

206022 2002 PG_{172} 1 28.5 62°.04 1°.2/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.65	+19 41.5	2.092	2.894	13.3	21.3
1 2	9 1.24	+20 13.1	2.012	2.898	10.2	21.1
1 12	8 54.64	+20 51.4	1.956	2.901	6.5	20.9
1 22	8 46.42	+21 32.2	1.927	2.905	2.7	20.6
2 1	8 37.49	+22 10.6	1.927	2.908	2.1	20.6
2 11	8 28.91	+22 42.5	1.957	2.912	5.9	20.8
2 21	8 21.63	+23 5.2	2.014	2.916	9.6	21.1
3 2	8 16.40	+23 17.5	2.095	2.919	12.8	21.3

146434 2001 QM_{275} 1 28.5 99°.20 5°.2/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.51	+ 4 12.4	2.038	2.782	15.5	20.5
1 2	9 4.68	+ 3 29.2	1.967	2.804	12.6	20.4
1 12	8 56.68	+ 3 1.2	1.919	2.825	9.4	20.2
1 22	8 47.19	+ 2 49.0	1.897	2.846	6.5	20.1
2 1	8 37.12	+ 2 52.0	1.904	2.866	5.2	20.0
2 11	8 27.54	+ 3 7.6	1.940	2.886	6.8	20.1
2 21	8 19.36	+ 3 31.9	2.003	2.905	9.6	20.4
3 2	8 13.27	+ 4 0.9	2.092	2.924	12.5	20.6

459360 2012 HO_{83} 1 28.5 304°.07 3°.8/25.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.81	+22 13.2	1.692	2.512	15.1	21.1
1 2	9 1.53	+23 45.4	1.599	2.495	11.7	20.8
1 12	8 55.40	+25 29.9	1.530	2.477	7.7	20.5
1 22	8 46.93	+27 18.5	1.487	2.461	4.2	20.3
2 1	8 37.14	+29 0.7	1.472	2.444	4.9	20.3
2 11	8 27.44	+30 27.1	1.486	2.427	8.9	20.5
2 21	8 19.23	+31 32.0	1.525	2.411	13.1	20.7
3 2	8 13.65	+32 13.9	1.586	2.396	16.8	20.9

321221 2008 YM_{142} 1 28.5 319°.96 0°.1/28.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.00	+16 58.3	2.064	2.864	13.5	21.2
1 2	9 0.10	+17 15.5	1.971	2.854	10.4	21.0
1 12	8 53.98	+17 41.4	1.901	2.845	6.8	20.8
1 22	8 46.20	+18 12.7	1.858	2.836	2.7	20.5
2 1	8 37.60	+18 45.5	1.844	2.827	1.5	20.4
2 11	8 29.24	+19 15.6	1.859	2.819	5.7	20.7
2 21	8 22.10	+19 39.8	1.901	2.810	9.6	20.9
3 2	8 16.98	+19 56.1	1.967	2.803	13.0	21.1

371721 2007 EA_{84} 1 28.5 11°.03 0°.2/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.54	+14 48.2	1.713	2.518	15.7	21.0
1 2	9 0.85	+15 23.2	1.633	2.519	12.1	20.8
1 12	8 54.62	+16 11.6	1.575	2.520	7.9	20.6
1 22	8 46.49	+17 9.1	1.544	2.521	3.2	20.3
2 1	8 37.45	+18 10.0	1.540	2.523	1.7	20.2
2 11	8 28.77	+19 7.7	1.564	2.525	6.4	20.5
2 21	8 21.59	+19 57.2	1.615	2.528	10.8	20.7
3 2	8 16.78	+20 35.6	1.689	2.530	14.5	21.0

389133 2009 AP_{31} 1 28.5 135°.19 2°.1/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.93	+11 32.8	2.547	3.313	12.2	21.1
1 2	9 1.69	+11 13.2	2.461	3.320	9.6	20.9
1 12	8 54.66	+11 1.8	2.398	3.327	6.6	20.7
1 22	8 46.37	+10 57.8	2.364	3.333	3.5	20.5
2 1	8 37.55	+10 59.7	2.360	3.339	2.3	20.4
2 11	8 29.02	+11 5.4	2.387	3.345	4.8	20.6
2 21	8 21.56	+11 12.8	2.443	3.351	7.9	20.8
3 2	8 15.76	+11 20.1	2.526	3.356	10.7	21.0

67878 2000 WR_{40} 1 28.5 119°.70 1°.6/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.77	+10 58.6	1.743	2.529	16.2	19.5
1 2	9 3.17	+11 29.3	1.667	2.539	12.6	19.3
1 12	8 56.03	+12 16.0	1.613	2.549	8.5	19.1
1 22	8 47.03	+13 15.5	1.585	2.559	4.0	18.8
2 1	8 37.18	+14 22.0	1.585	2.568	2.0	18.7
2 11	8 27.76	+15 29.1	1.615	2.577	6.2	19.0
2 21	8 19.87	+16 31.0	1.672	2.586	10.4	19.2
3 2	8 14.37	+17 23.6	1.753	2.594	14.1	19.5

454398 2014 NY_{30} 1 28.5 298°.00 2°.8/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.78	+ 9 51.2	1.552	2.345	17.6	21.7
1 2	9 2.82	+ 9 53.5	1.468	2.343	13.9	21.5
1 12	8 56.05	+10 13.3	1.406	2.340	9.7	21.2
1 22	8 47.11	+10 48.8	1.367	2.338	5.1	20.9
2 1	8 37.12	+11 36.0	1.355	2.336	3.0	20.8
2 11	8 27.47	+12 29.0	1.371	2.334	6.9	21.0
2 21	8 19.46	+13 21.6	1.413	2.332	11.5	21.3
3 2	8 14.08	+14 8.9	1.477	2.330	15.7	21.5

102295 1999 TM_{81} 1 28.5 37°.86 3°.1/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.91	+24 8.1	1.362	2.188	17.8	19.3
1 2	9 6.29	+24 30.1	1.300	2.198	13.7	19.1
1 12	8 58.34	+24 56.0	1.259	2.208	8.9	18.8
1 22	8 47.99	+25 18.9	1.242	2.218	4.3	18.6
2 1	8 36.71	+25 32.2	1.252	2.230	4.0	18.6
2 11	8 26.25	+25 31.6	1.287	2.241	8.5	18.9
2 21	8 18.04	+25 16.6	1.348	2.254	13.1	19.2
3 2	8 13.02	+24 49.0	1.429	2.266	17.0	19.5

135414 2001 UP_{24} 1 28.5 49°.07 10°.6/ 5.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.79	−13 25.7	2.213	2.863	16.9	19.0
1 2	8 59.62	−14 41.1	2.142	2.877	15.1	18.9
1 12	8 53.50	−15 32.9	2.088	2.891	13.3	18.8
1 22	8 45.96	−15 57.2	2.056	2.905	11.7	18.7
2 1	8 37.79	−15 52.2	2.047	2.919	10.7	18.7
2 11	8 29.92	−15 19.3	2.062	2.934	10.8	18.7
2 21	8 23.20	−14 23.4	2.101	2.949	11.7	18.8
3 2	8 18.30	−13 11.1	2.163	2.964	13.3	18.9

450293 2004 LV_{3} 1 28.5 69°.41 45°.4/ 2.0 15

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	10 57.41	−26 56.7	0.376	1.070	66.6	19.2
1 2	10 31.82	−40 46.2	0.410	1.114	61.0	19.3
1 12	9 56.35	−50 51.6	0.458	1.159	56.6	19.5
1 22	9 11.66	−57 1.4	0.515	1.203	53.1	19.7
2 1	8 24.57	−59 39.0	0.575	1.245	50.5	20.0
2 11	7 45.13	−59 36.9	0.636	1.287	48.4	20.2
2 21	7 18.77	−57 55.7	0.696	1.326	46.7	20.4
3 2	7 5.42	−55 22.3	0.753	1.363	45.4	20.6

328713 2009 TB_{14} 1 28.5 144°.99 7°.3/23.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.13	+37 58.9	2.142	2.939	13.2	20.2
1 2	9 7.33	+39 10.0	2.076	2.944	10.7	20.0
1 12	8 58.74	+40 14.3	2.035	2.949	8.5	19.9
1 22	8 48.12	+41 3.9	2.020	2.954	7.3	19.8
2 1	8 36.64	+41 32.0	2.033	2.958	7.9	19.9
2 11	8 25.70	+41 35.5	2.073	2.962	9.9	20.0
2 21	8 16.55	+41 15.5	2.138	2.966	12.3	20.1
3 2	8 10.05	+40 36.1	2.225	2.970	14.6	20.3

234941 2002 VO_{29} 1 28.5 91°.62 0°.2/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.84	+16 18.2	2.441	3.224	12.2	21.0
1 2	9 1.63	+16 35.5	2.374	3.248	9.3	20.9
1 12	8 54.60	+16 59.8	2.331	3.271	6.0	20.7
1 22	8 46.34	+17 28.1	2.317	3.294	2.4	20.5
2 1	8 37.62	+17 57.0	2.333	3.316	1.2	20.4
2 11	8 29.32	+18 23.4	2.380	3.339	4.8	20.7
2 21	8 22.19	+18 44.9	2.456	3.360	8.0	20.9
3 2	8 16.81	+19 0.3	2.558	3.382	10.7	21.2

495353 2014 ON_{59} 1 28.5 281°.02 2°.5/27.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.58	+20 19.5	1.531	2.350	16.6	22.0
1 2	9 3.74	+21 20.1	1.448	2.342	12.7	21.7
1 12	8 56.83	+22 32.5	1.387	2.335	8.3	21.4
1 22	8 47.50	+23 49.3	1.351	2.328	3.7	21.1
2 1	8 36.92	+25 1.6	1.342	2.321	3.7	21.1
2 11	8 26.65	+26 1.3	1.361	2.314	8.3	21.4
2 21	8 18.14	+26 43.5	1.406	2.307	13.0	21.6
3 2	8 12.51	+27 7.2	1.471	2.300	17.0	21.8

334155 2001 RZ_{152} 1 28.5 55°.17 1°.0/29.4 18

12 23	9 5.54	+ 8 58.9	2.022	2.796	14.7	19.8
1 2	9 1.00	+10 24.0	1.961	2.827	11.3	19.6
1 12	8 54.37	+12 5.9	1.924	2.859	7.5	19.4
1 22	8 46.29	+13 59.0	1.915	2.890	3.3	19.2
2 1	8 37.64	+15 55.7	1.938	2.921	1.5	19.2
2 11	8 29.43	+17 48.0	1.992	2.952	5.3	19.5
2 21	8 22.55	+19 29.5	2.076	2.984	9.0	19.8
3 2	8 17.65	+20 56.3	2.185	3.015	12.1	20.0

412726 2014 OO_{341} 1 28.5 241°.76 0°.6/28.2 18

12 23	9 11.29	+18 56.5	1.695	2.497	15.9	21.2
1 2	9 6.22	+19 4.8	1.604	2.489	12.3	20.9
1 12	8 58.24	+19 20.9	1.535	2.480	8.0	20.7
1 22	8 48.01	+19 40.7	1.492	2.470	3.2	20.4
2 1	8 36.67	+19 59.4	1.478	2.461	2.0	20.2
2 11	8 25.65	+20 12.5	1.492	2.451	7.0	20.5
2 21	8 16.31	+20 17.5	1.533	2.441	11.6	20.8
3 2	8 9.66	+20 13.6	1.597	2.430	15.6	21.0

259575 2003 UF_{187} 1 28.5 112°.90 1°.4/29.2 18

12 23	9 9.71	+13 55.1	1.730	2.522	16.1	20.8
1 2	9 4.66	+13 55.3	1.654	2.531	12.5	20.6
1 12	8 56.99	+14 6.9	1.601	2.540	8.3	20.3
1 22	8 47.42	+14 27.3	1.573	2.548	3.8	20.1
2 1	8 37.04	+14 52.7	1.573	2.556	1.9	20.0
2 11	8 27.14	+15 18.6	1.603	2.564	6.3	20.3
2 21	8 18.87	+15 41.5	1.659	2.572	10.5	20.5
3 2	8 13.08	+15 59.1	1.739	2.579	14.3	20.8

83036 2001 QC_{185} 1 28.5 37°.09 1°.6/29.3 18

12 23	9 9.11	+14 54.3	2.158	2.940	13.6	19.1
1 2	9 3.68	+14 21.7	2.073	2.943	10.6	18.9
1 12	8 56.10	+13 55.5	2.011	2.947	7.1	18.7
1 22	8 47.01	+13 34.7	1.977	2.951	3.4	18.5
2 1	8 37.27	+13 18.0	1.973	2.955	2.0	18.4
2 11	8 27.92	+13 3.8	2.000	2.959	5.4	18.6
2 21	8 19.89	+12 50.6	2.054	2.964	9.0	18.8
3 2	8 13.88	+12 37.2	2.134	2.968	12.2	19.0

367757 2010 VA_{206} 1 28.5 247°.02 3°.7/30.4 18

12 23	9 7.39	+ 8 21.8	1.864	2.638	15.7	20.9
1 2	9 2.85	+ 8 0.9	1.771	2.632	12.7	20.7
1 12	8 55.86	+ 7 54.0	1.700	2.625	9.0	20.5
1 22	8 47.01	+ 8 1.0	1.654	2.619	5.4	20.2
2 1	8 37.23	+ 8 20.1	1.636	2.612	3.8	20.1
2 11	8 27.71	+ 8 47.8	1.647	2.605	6.5	20.3
2 21	8 19.53	+ 9 20.0	1.685	2.598	10.4	20.5
3 2	8 13.58	+ 9 52.6	1.747	2.591	14.0	20.7

55841 1996 NW_{4} 1 28.5 66°.54 0°.9/29.0 18

12 23	9 6.47	+13 57.6	1.762	2.559	15.6	19.0
1 2	9 2.16	+14 16.9	1.688	2.568	12.1	18.8
1 12	8 55.36	+14 48.6	1.636	2.577	8.0	18.6
1 22	8 46.77	+15 29.3	1.610	2.586	3.4	18.3
2 1	8 37.40	+16 14.2	1.612	2.595	1.7	18.2
2 11	8 28.46	+16 58.0	1.643	2.604	6.1	18.5
2 21	8 21.05	+17 36.3	1.700	2.614	10.3	18.8
3 2	8 15.97	+18 6.5	1.782	2.623	13.9	19.0

431604 2007 VW_{215} 1 28.5 34°.88 5°.6/24.7 18

12 23	9 7.03	+32 2.7	2.066	2.878	13.1	20.4
1 2	9 2.56	+33 8.0	2.000	2.885	10.2	20.3
1 12	8 55.60	+34 11.1	1.959	2.893	7.4	20.1
1 22	8 46.86	+35 4.9	1.945	2.901	5.7	20.0
2 1	8 37.35	+35 42.9	1.958	2.909	6.2	20.1
2 11	8 28.32	+36 1.5	2.000	2.917	8.6	20.2
2 21	8 20.84	+36 0.4	2.066	2.926	11.4	20.4
3 2	8 15.69	+35 41.7	2.155	2.935	14.0	20.6

428508 2007 YE_{15} 1 28.5 130°.14 3°.7/30.8 18

12 23	9 5.13	+ 6 42.1	2.481	3.234	12.8	21.0
1 2	9 0.42	+ 6 13.4	2.391	3.236	10.4	20.8
1 12	8 53.92	+ 5 56.0	2.324	3.238	7.6	20.6
1 22	8 46.12	+ 5 49.8	2.284	3.240	4.8	20.5
2 1	8 37.75	+ 5 54.1	2.273	3.242	3.7	20.4
2 11	8 29.62	+ 6 6.7	2.292	3.244	5.4	20.5
2 21	8 22.51	+ 6 24.9	2.340	3.246	8.2	20.7
3 2	8 17.04	+ 6 45.8	2.413	3.248	10.9	20.9

156527 2002 CD_{256} 1 28.5 278°.64 2°.6/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.68	+22 25.5	1.916	2.726	14.0	20.1
1 2	9 2.42	+23 14.8	1.831	2.721	10.8	19.9
1 12	8 55.63	+24 10.6	1.769	2.716	7.0	19.6
1 22	8 46.94	+25 7.2	1.735	2.710	3.4	19.4
2 1	8 37.30	+25 57.9	1.729	2.705	3.5	19.4
2 11	8 27.97	+26 37.5	1.751	2.700	7.2	19.6
2 21	8 20.06	+27 2.9	1.801	2.695	11.0	19.8
3 2	8 14.49	+27 13.6	1.873	2.690	14.4	20.0

239365 2007 RZ_{220} 1 28.5 328°.81 4°.8/31.8 17

12 23	9 2.67	+ 2 49.8	2.187	2.936	14.5	20.3
1 2	8 58.86	+ 2 37.4	2.095	2.934	11.9	20.1
1 12	8 53.08	+ 2 41.8	2.024	2.931	9.0	19.9
1 22	8 45.84	+ 3 3.0	1.979	2.928	6.2	19.7
2 1	8 37.90	+ 3 39.7	1.961	2.926	4.8	19.6
2 11	8 30.18	+ 4 28.4	1.972	2.923	6.3	19.7
2 21	8 23.52	+ 5 24.2	2.011	2.921	9.1	19.9
3 2	8 18.65	+ 6 22.3	2.074	2.919	12.1	20.0

395405 2011 SF_{132} 1 28.5 135°.33 2°.9/26.8 18

12 23	9 13.36	+24 10.7	2.022	2.818	13.9	22.1
1 2	9 7.18	+24 59.1	1.953	2.835	10.6	21.9
1 12	8 58.49	+25 50.8	1.908	2.850	6.9	21.7
1 22	8 48.00	+26 39.6	1.891	2.865	3.6	21.5
2 1	8 36.79	+27 19.4	1.905	2.878	3.7	21.5
2 11	8 26.11	+27 46.1	1.948	2.891	7.0	21.8
2 21	8 17.04	+27 58.3	2.019	2.903	10.5	22.0
3 2	8 10.37	+27 56.8	2.114	2.914	13.5	22.2

421887 2014 QS_{178} 1 28.5 197°.14 2°.0/27.3 18

12 23	9 10.96	+21 43.4	2.104	2.899	13.5	22.3
1 2	9 5.44	+22 21.3	2.015	2.896	10.3	22.1
1 12	8 57.46	+23 4.9	1.949	2.893	6.7	21.9
1 22	8 47.65	+23 49.2	1.912	2.888	3.0	21.6
2 1	8 36.94	+24 28.5	1.905	2.883	2.8	21.6
2 11	8 26.53	+24 58.4	1.928	2.877	6.5	21.8
2 21	8 17.49	+25 16.5	1.978	2.871	10.3	22.0
3 2	8 10.70	+25 22.4	2.054	2.863	13.5	22.2

402517 2006 DA_{141} 1 28.5 337°.15 2°.1/27.5 18

12 23	9 5.70	+19 46.7	1.260	2.093	18.5	20.9
1 2	9 2.82	+20 25.8	1.182	2.084	14.3	20.6
1 12	8 56.50	+21 17.3	1.125	2.076	9.3	20.3
1 22	8 47.46	+22 14.5	1.090	2.069	3.9	19.9
2 1	8 37.04	+23 8.7	1.081	2.062	3.4	19.9
2 11	8 27.05	+23 51.6	1.097	2.057	8.8	20.2
2 21	8 19.14	+24 18.4	1.137	2.052	14.1	20.4
3 2	8 14.52	+24 28.1	1.197	2.048	18.7	20.7

234378 2001 QA_{48} 1 28.5 96°.31 2°.2/30.4 18

12 23	9 2.88	+ 7 31.8	2.331	3.096	13.2	20.1
1 2	8 58.88	+ 8 7.9	2.245	3.102	10.5	19.9
1 12	8 53.01	+ 8 59.1	2.183	3.109	7.3	19.7
1 22	8 45.81	+10 3.0	2.148	3.116	3.9	19.5
2 1	8 37.98	+11 15.8	2.143	3.122	2.3	19.4
2 11	8 30.39	+12 32.1	2.168	3.129	4.9	19.6
2 21	8 23.83	+13 46.9	2.222	3.135	8.3	19.8
3 2	8 18.97	+14 55.7	2.303	3.141	11.3	20.0

331229 2011 BX_{79} 1 28.5 80°.13 0°.2/28.6 18

12 23	9 6.16	+15 16.5	1.878	2.676	14.8	20.9
1 2	9 1.82	+15 48.7	1.803	2.685	11.4	20.7
1 12	8 55.11	+16 32.2	1.751	2.694	7.4	20.5
1 22	8 46.69	+17 23.0	1.725	2.703	3.0	20.2
2 1	8 37.52	+18 15.7	1.728	2.712	1.5	20.2
2 11	8 28.74	+19 4.9	1.760	2.721	5.9	20.5
2 21	8 21.40	+19 46.7	1.820	2.730	10.0	20.7
3 2	8 16.26	+20 18.5	1.903	2.739	13.4	21.0

409439 2005 OP_{19} 1 28.5 124°.24 0°.1/28.5 18

12 23	9 8.26	+15 34.6	2.258	3.041	13.1	22.0
1 2	9 2.96	+16 10.7	2.184	3.058	10.0	21.9
1 12	8 55.62	+16 55.8	2.135	3.075	6.5	21.7
1 22	8 46.84	+17 46.1	2.114	3.091	2.6	21.5
2 1	8 37.46	+18 37.1	2.124	3.107	1.4	21.4
2 11	8 28.46	+19 24.3	2.164	3.122	5.2	21.7
2 21	8 20.71	+20 4.4	2.233	3.136	8.7	21.9
3 2	8 14.89	+20 35.6	2.328	3.150	11.7	22.1

263873 2009 DT_{75} 1 28.5 238°.77 1°.0/27.9 17

12 23	9 10.69	+19 20.7	2.029	2.822	14.0	22.3
1 2	9 5.43	+19 44.7	1.926	2.807	10.8	22.0
1 12	8 57.60	+20 16.1	1.848	2.791	7.0	21.8
1 22	8 47.78	+20 50.9	1.796	2.774	2.9	21.5
2 1	8 36.90	+21 24.0	1.775	2.757	2.1	21.4
2 11	8 26.17	+21 50.9	1.783	2.738	6.4	21.6
2 21	8 16.78	+22 8.6	1.819	2.720	10.5	21.8
3 2	8 9.67	+22 16.2	1.880	2.700	14.2	22.0

502478 2015 BO_{341} 1 28.5 308°.06 1°.2/27.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.53	+18 59.4	2.110	2.912	13.2	21.8
1 2	9 0.49	+19 40.4	2.022	2.908	10.1	21.6
1 12	8 54.25	+20 29.6	1.958	2.904	6.5	21.4
1 22	8 46.36	+21 22.6	1.922	2.900	2.7	21.1
2 1	8 37.68	+22 14.1	1.915	2.896	2.2	21.1
2 11	8 29.25	+22 59.1	1.938	2.893	6.0	21.3
2 21	8 22.05	+23 34.4	1.987	2.889	9.7	21.5
3 2	8 16.86	+23 58.3	2.062	2.886	13.0	21.7

188542 2004 RF_{339} 1 28.5 207°.64 3°.2/30.5 18

12 23	9 6.46	+ 7 52.6	2.284	3.044	13.6	20.5
1 2	9 1.69	+ 7 39.4	2.188	3.040	10.9	20.3
1 12	8 54.89	+ 7 38.6	2.115	3.036	7.8	20.1
1 22	8 46.60	+ 7 49.6	2.068	3.031	4.7	19.9
2 1	8 37.58	+ 8 10.7	2.051	3.026	3.3	19.8
2 11	8 28.77	+ 8 38.9	2.064	3.021	5.6	19.9
2 21	8 21.06	+ 9 10.8	2.106	3.015	8.8	20.1
3 2	8 15.15	+ 9 42.9	2.173	3.009	11.9	20.3

268120 2004 TQ_{24} 1 28.5 151°.36 2°.7/26.9 18

12 23	9 9.08	+24 36.2	2.047	2.852	13.5	20.6
1 2	9 4.01	+25 7.2	1.968	2.854	10.3	20.4
1 12	8 56.51	+25 41.0	1.912	2.856	6.8	20.2
1 22	8 47.26	+26 12.3	1.883	2.857	3.4	20.0
2 1	8 37.24	+26 36.1	1.884	2.859	3.5	20.0
2 11	8 27.62	+26 48.6	1.913	2.860	6.8	20.2
2 21	8 19.47	+26 48.7	1.970	2.862	10.3	20.4
3 2	8 13.58	+26 36.7	2.051	2.863	13.5	20.6

493168 2014 TL_{84} 1 28.5 120°.27 5°.6/24.7 18

12 23	9 11.96	+32 22.3	2.160	2.962	13.0	21.4
1 2	9 6.19	+33 33.8	2.099	2.977	10.2	21.2
1 12	8 57.90	+34 42.6	2.062	2.992	7.4	21.1
1 22	8 47.80	+35 41.2	2.053	3.006	5.6	21.0
2 1	8 36.97	+36 23.1	2.073	3.020	6.2	21.1
2 11	8 26.65	+36 44.8	2.122	3.033	8.5	21.2
2 21	8 17.95	+36 46.3	2.196	3.046	11.2	21.4
3 2	8 11.66	+36 30.1	2.294	3.059	13.7	21.6

76145 2000 EO_{16} 1 28.5 54°.70 4°.1/31.4 18

12 23	9 3.30	+ 4 31.8	2.053	2.813	14.9	19.6
1 2	8 59.40	+ 4 33.5	1.971	2.820	12.1	19.5
1 12	8 53.45	+ 4 52.4	1.912	2.827	8.9	19.3
1 22	8 46.02	+ 5 27.9	1.877	2.835	5.6	19.1
2 1	8 37.92	+ 6 17.2	1.871	2.843	4.1	19.0
2 11	8 30.13	+ 7 15.8	1.894	2.851	6.0	19.1
2 21	8 23.53	+ 8 18.3	1.944	2.859	9.2	19.3
3 2	8 18.82	+ 9 19.8	2.020	2.867	12.3	19.5

394355 2007 BF_{44} 1 28.5 335°.12 1°.1/29.1 18

12 23	9 6.33	+13 22.6	1.264	2.083	19.4	20.6
1 2	9 3.16	+13 43.2	1.186	2.078	15.2	20.3
1 12	8 56.66	+14 22.5	1.128	2.073	10.1	20.0
1 22	8 47.53	+15 16.6	1.092	2.069	4.4	19.7
2 1	8 37.07	+16 18.6	1.082	2.066	2.1	19.5
2 11	8 27.02	+17 20.0	1.098	2.062	7.9	19.8
2 21	8 18.97	+18 13.8	1.137	2.060	13.4	20.1
3 2	8 14.10	+18 55.4	1.198	2.057	18.1	20.4

313028 2000 DU_{4} 1 28.5 352°.53 3°.8/26.7 18

12 23	9 5.60	+23 38.3	1.342	2.176	17.5	19.8
1 2	9 2.57	+24 28.3	1.269	2.171	13.5	19.6
1 12	8 56.23	+25 25.9	1.217	2.167	8.9	19.3
1 22	8 47.33	+26 22.9	1.188	2.164	4.6	19.0
2 1	8 37.21	+27 10.5	1.186	2.162	4.8	19.1
2 11	8 27.60	+27 41.4	1.209	2.160	9.3	19.3
2 21	8 20.05	+27 52.8	1.255	2.160	13.9	19.6
3 2	8 15.64	+27 45.6	1.321	2.160	18.0	19.8

425285 2009 WQ_{191} 1 28.5 100°.01 1°.6/29.6 18

12 23	9 7.18	+12 19.2	2.079	2.860	14.1	21.8
1 2	9 2.29	+12 22.6	2.004	2.873	11.0	21.6
1 12	8 55.26	+12 37.0	1.951	2.886	7.4	21.4
1 22	8 46.73	+13 0.2	1.926	2.899	3.6	21.2
2 1	8 37.57	+13 28.9	1.929	2.911	1.9	21.1
2 11	8 28.82	+13 59.4	1.963	2.924	5.4	21.3
2 21	8 21.38	+14 28.3	2.024	2.936	9.0	21.6
3 2	8 15.95	+14 53.0	2.111	2.948	12.2	21.8

405633 2005 TC_{28} 1 28.5 94°.28 9°.0/22.9 18

12 23	9 17.20	+42 12.1	1.976	2.767	14.4	20.4
1 2	9 10.72	+43 36.3	1.929	2.785	12.0	20.3
1 12	9 1.04	+44 49.2	1.906	2.804	10.0	20.2
1 22	8 49.11	+45 41.1	1.908	2.822	9.0	20.2
2 1	8 36.35	+46 5.1	1.937	2.840	9.7	20.2
2 11	8 24.46	+45 59.1	1.992	2.857	11.4	20.4
2 21	8 14.80	+45 26.2	2.070	2.874	13.5	20.6
3 2	8 8.25	+44 32.0	2.168	2.891	15.6	20.7

94630 2001 WJ_{12} 1 28.5 159°.04 3°.4/26.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.61	+23 36.4	1.774	2.581	15.1	20.5
1 2	9 6.37	+24 41.3	1.699	2.587	11.6	20.3
1 12	8 58.29	+25 52.4	1.647	2.592	7.6	20.1
1 22	8 48.07	+27 2.1	1.623	2.596	4.0	19.9
2 1	8 36.86	+28 2.3	1.628	2.600	4.3	19.9
2 11	8 26.08	+28 47.0	1.661	2.604	8.0	20.1
2 21	8 17.02	+29 13.6	1.721	2.607	11.9	20.4
3 2	8 10.63	+29 22.6	1.803	2.609	15.3	20.6

462098 2007 LM_{37} 1 28.5 279°.03 2°.9/30.4 17

12 23	9 4.54	+ 8 9.5	2.095	2.865	14.3	21.9
1 2	9 0.60	+ 8 17.2	1.984	2.844	11.5	21.7
1 12	8 54.44	+ 8 40.2	1.896	2.822	8.2	21.4
1 22	8 46.53	+ 9 17.5	1.834	2.800	4.6	21.2
2 1	8 37.64	+10 6.5	1.800	2.778	3.0	21.0
2 11	8 28.79	+11 2.6	1.796	2.756	5.8	21.1
2 21	8 21.01	+12 0.8	1.819	2.733	9.7	21.3
3 2	8 15.16	+12 56.5	1.868	2.711	13.3	21.5

229429 2005 TA_{72} 1 28.5 163°.18 0°.3/28.4 18

12 23	9 10.72	+15 35.0	1.711	2.506	16.1	20.7
1 2	9 5.65	+16 18.5	1.631	2.512	12.4	20.5
1 12	8 57.81	+17 15.1	1.574	2.516	8.1	20.3
1 22	8 47.88	+18 19.7	1.543	2.520	3.2	20.0
2 1	8 36.96	+19 25.6	1.541	2.524	1.9	19.9
2 11	8 26.43	+20 25.9	1.568	2.527	6.7	20.2
2 21	8 17.53	+21 15.7	1.623	2.529	11.2	20.5
3 2	8 11.22	+21 52.7	1.701	2.530	15.0	20.7

454306 2014 JU_{65} 1 28.5 131°.47 0°.1/28.5 18

12 23	9 10.46	+15 16.2	1.774	2.566	15.7	21.9
1 2	9 5.24	+15 55.7	1.700	2.579	12.1	21.7
1 12	8 57.40	+16 47.4	1.650	2.592	7.8	21.5
1 22	8 47.66	+17 46.5	1.626	2.604	3.2	21.2
2 1	8 37.09	+18 46.7	1.631	2.615	1.7	21.2
2 11	8 26.99	+19 42.0	1.666	2.625	6.4	21.5
2 21	8 18.50	+20 28.0	1.729	2.635	10.6	21.8
3 2	8 12.47	+21 2.4	1.815	2.645	14.2	22.0

163248 2002 FJ_{38} 1 28.5 326°.11 1°.2/27.9 18

12 23	9 6.37	+17 46.7	1.418	2.239	17.5	20.6
1 2	9 2.96	+18 26.4	1.337	2.232	13.5	20.4
1 12	8 56.42	+19 19.6	1.277	2.226	8.8	20.1
1 22	8 47.42	+20 20.6	1.241	2.220	3.5	19.7
2 1	8 37.18	+21 21.5	1.232	2.214	2.6	19.7
2 11	8 27.31	+22 14.5	1.250	2.209	7.9	20.0
2 21	8 19.27	+22 54.4	1.292	2.205	12.9	20.2
3 2	8 14.20	+23 19.0	1.355	2.200	17.2	20.5

314371 2005 UT_{42} 1 28.5 125°.70 3°.2/30.6 18

12 23	9 5.83	+ 7 45.2	1.983	2.753	15.1	20.9
1 2	9 1.45	+ 7 44.7	1.899	2.757	12.0	20.7
1 12	8 54.84	+ 7 59.4	1.837	2.762	8.5	20.5
1 22	8 46.62	+ 8 28.2	1.801	2.766	4.9	20.3
2 1	8 37.65	+ 9 8.1	1.793	2.770	3.3	20.2
2 11	8 28.99	+ 9 54.8	1.815	2.774	5.9	20.4
2 21	8 21.61	+10 43.5	1.864	2.778	9.5	20.6
3 2	8 16.27	+11 30.0	1.938	2.781	12.9	20.8

337602 2001 TR_{4} 1 28.5 132°.52 4°.6/ 1.7 18

12 23	9 3.18	− 0 22.9	2.854	3.568	12.2	21.8
1 2	8 58.70	− 0 29.4	2.768	3.580	10.1	21.6
1 12	8 52.72	− 0 21.1	2.705	3.591	7.8	21.5
1 22	8 45.67	+ 0 1.9	2.668	3.602	5.7	21.4
2 1	8 38.16	+ 0 38.5	2.661	3.613	4.6	21.3
2 11	8 30.88	+ 1 25.8	2.683	3.624	5.5	21.4
2 21	8 24.45	+ 2 20.2	2.734	3.634	7.5	21.5
3 2	8 19.40	+ 3 17.5	2.813	3.643	9.7	21.7

28305 Wangjiayi 1 28.5 43°.30 1°.4/29.3 18

12 23	9 6.76	+13 32.3	1.577	2.379	16.9	18.4
1 2	9 2.64	+13 38.7	1.506	2.389	13.1	18.1
1 12	8 55.82	+13 58.6	1.457	2.399	8.7	17.9
1 22	8 47.05	+14 28.7	1.433	2.409	3.9	17.7
2 1	8 37.45	+15 4.6	1.437	2.420	2.0	17.5
2 11	8 28.37	+15 41.0	1.468	2.431	6.5	17.9
2 21	8 20.98	+16 13.3	1.525	2.442	11.0	18.1
3 2	8 16.16	+16 38.7	1.605	2.454	14.8	18.4

83966 2001 YX_{13} 1 28.5 221°.66 1°.0/29.3 18

12 23	9 3.69	+13 11.7	2.833	3.606	10.9	20.4
1 2	8 59.25	+13 24.3	2.733	3.599	8.5	20.2
1 12	8 53.17	+13 45.1	2.657	3.592	5.7	20.1
1 22	8 45.90	+14 12.3	2.610	3.584	2.6	19.8
2 1	8 38.05	+14 43.2	2.593	3.576	1.3	19.7
2 11	8 30.35	+15 15.1	2.608	3.568	4.3	19.9
2 21	8 23.51	+15 45.2	2.651	3.559	7.3	20.1
3 2	8 18.09	+16 11.4	2.722	3.550	10.0	20.3

179784 2002 ST_{70} 1 28.5 64°.09 1°.4/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.79	+12 17.9	1.551	2.349	17.3	20.4
1 2	9 3.37	+12 42.1	1.489	2.369	13.4	20.2
1 12	8 56.24	+13 21.9	1.449	2.389	8.9	20.0
1 22	8 47.19	+14 13.2	1.433	2.409	4.0	19.8
2 1	8 37.40	+15 10.2	1.446	2.429	1.9	19.7
2 11	8 28.23	+16 6.2	1.486	2.449	6.5	20.0
2 21	8 20.81	+16 56.1	1.553	2.469	10.9	20.3
3 2	8 15.98	+17 36.3	1.643	2.489	14.6	20.6

41388 2000 AJ_{140} 1 28.5 116°.83 3°.6/25.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.96	+25 12.1	2.084	2.892	13.1	19.0
1 2	9 2.46	+26 20.4	2.009	2.897	10.0	18.8
1 12	8 55.58	+27 32.8	1.958	2.902	6.7	18.6
1 22	8 46.95	+28 42.6	1.935	2.906	3.9	18.4
2 1	8 37.52	+29 43.1	1.942	2.910	4.4	18.4
2 11	8 28.42	+30 29.1	1.977	2.915	7.4	18.6
2 21	8 20.69	+30 58.3	2.040	2.919	10.6	18.8
3 2	8 15.16	+31 11.0	2.125	2.923	13.6	19.0

400788 2010 EO_{134} 1 28.5 192°.02 1°.2/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.03	+13 4.1	2.119	2.895	14.0	22.4
1 2	9 4.63	+13 20.0	2.025	2.893	11.0	22.2
1 12	8 56.93	+13 47.2	1.955	2.891	7.3	22.0
1 22	8 47.50	+14 23.0	1.913	2.887	3.3	21.7
2 1	8 37.23	+15 3.6	1.900	2.883	1.7	21.6
2 11	8 27.19	+15 44.5	1.918	2.878	5.6	21.9
2 21	8 18.43	+16 21.9	1.965	2.873	9.5	22.1
3 2	8 11.74	+16 53.2	2.037	2.866	12.9	22.3

494724 2005 SX_{256} 1 28.5 132°.00 5°.4/25.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.77	+33 0.3	2.185	2.982	13.0	21.9
1 2	9 7.53	+33 53.3	2.119	2.994	10.2	21.8
1 12	8 58.75	+34 42.5	2.077	3.006	7.4	21.6
1 22	8 48.18	+35 21.0	2.064	3.018	5.5	21.5
2 1	8 36.91	+35 43.2	2.079	3.029	6.0	21.6
2 11	8 26.21	+35 46.2	2.124	3.039	8.3	21.7
2 21	8 17.16	+35 30.5	2.194	3.049	11.0	21.9
3 2	8 10.56	+34 59.1	2.288	3.058	13.5	22.1

253080 2002 TV_{206} 1 28.5 107°.27 1°.2/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.66	+13 31.1	2.039	2.817	14.4	21.4
1 2	9 4.89	+13 40.4	1.971	2.840	11.2	21.2
1 12	8 56.91	+14 0.0	1.926	2.862	7.4	21.0
1 22	8 47.41	+14 26.9	1.909	2.884	3.3	20.8
2 1	8 37.33	+14 57.6	1.922	2.905	1.7	20.7
2 11	8 27.77	+15 28.0	1.965	2.925	5.4	21.0
2 21	8 19.65	+15 55.0	2.037	2.945	9.2	21.3
3 2	8 13.68	+16 16.5	2.134	2.964	12.3	21.5

15933 1997 YD 1 28.5 36°.32 1°.3/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.18	+18 40.8	1.138	1.972	20.1	17.5
1 2	9 4.57	+19 9.0	1.086	1.988	15.3	17.2
1 12	8 57.43	+19 49.2	1.053	2.005	9.8	17.0
1 22	8 47.76	+20 34.5	1.044	2.023	3.9	16.7
2 1	8 37.16	+21 16.8	1.059	2.042	2.8	16.7
2 11	8 27.48	+21 49.0	1.099	2.061	8.4	17.1
2 21	8 20.22	+22 7.7	1.163	2.082	13.5	17.4
3 2	8 16.31	+22 12.4	1.247	2.103	17.8	17.7

330458 2007 ES_{117} 1 28.5 173°.66 2°.9/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.95	+ 6 50.0	2.482	3.235	12.8	22.2
1 2	9 0.37	+ 7 0.0	2.389	3.238	10.2	22.0
1 12	8 53.97	+ 7 23.3	2.320	3.240	7.3	21.8
1 22	8 46.25	+ 7 58.8	2.279	3.241	4.3	21.6
2 1	8 37.91	+ 8 44.0	2.267	3.242	2.9	21.5
2 11	8 29.78	+ 9 35.0	2.286	3.243	5.0	21.7
2 21	8 22.64	+10 27.8	2.333	3.243	8.1	21.9
3 2	8 17.13	+11 18.8	2.408	3.243	10.9	22.0

256161 2006 VN_{52} 1 28.5 41°.82 2°.8/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.93	+23 20.4	1.428	2.251	17.3	20.1
1 2	9 5.37	+23 48.1	1.370	2.266	13.2	19.9
1 12	8 57.69	+24 20.4	1.333	2.282	8.5	19.7
1 22	8 47.81	+24 50.7	1.322	2.298	4.0	19.5
2 1	8 37.14	+25 12.4	1.337	2.315	3.8	19.5
2 11	8 27.26	+25 21.2	1.379	2.333	8.1	19.8
2 21	8 19.50	+25 15.9	1.446	2.351	12.4	20.1
3 2	8 14.72	+24 57.9	1.534	2.369	16.1	20.4

77803 2001 QF_{103} 1 28.6 120°.60 0°.6/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.44	+15 11.7	2.302	3.088	12.7	19.6
1 2	9 0.89	+15 20.4	2.216	3.091	9.8	19.4
1 12	8 54.37	+15 37.4	2.154	3.093	6.5	19.2
1 22	8 46.42	+16 0.2	2.120	3.096	2.8	19.0
2 1	8 37.84	+16 25.7	2.115	3.099	1.3	18.9
2 11	8 29.55	+16 50.4	2.141	3.101	5.0	19.1
2 21	8 22.40	+17 11.7	2.194	3.103	8.5	19.4
3 2	8 17.06	+17 27.7	2.273	3.106	11.6	19.6

467275 2016 EF_{190} 1 28.6 92°.16 2°.1/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.71	+12 20.8	1.906	2.688	15.1	21.1
1 2	9 3.67	+12 7.3	1.829	2.699	11.8	20.9
1 12	8 56.27	+12 4.7	1.774	2.709	8.0	20.7
1 22	8 47.21	+12 11.5	1.746	2.718	4.0	20.4
2 1	8 37.44	+12 25.1	1.747	2.728	2.4	20.4
2 11	8 28.12	+12 42.0	1.777	2.738	5.8	20.6
2 21	8 20.25	+12 59.2	1.835	2.748	9.7	20.8
3 2	8 14.59	+13 14.0	1.917	2.757	13.1	21.1

402937 2007 TQ_{252} 1 28.6 215°.80 1°.9/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.82	+11 25.4	1.955	2.733	15.0	22.4
1 2	9 3.94	+11 35.4	1.858	2.726	11.8	22.1
1 12	8 56.62	+11 58.7	1.785	2.718	8.0	21.9
1 22	8 47.43	+12 33.2	1.738	2.710	4.0	21.6
2 1	8 37.28	+13 15.3	1.720	2.701	2.2	21.5
2 11	8 27.33	+14 0.3	1.731	2.692	6.0	21.7
2 21	8 18.69	+14 43.5	1.771	2.682	10.1	21.9
3 2	8 12.25	+15 21.6	1.835	2.672	13.8	22.1

53070 1998 XB_{52} 1 28.6 240°.24 3°.2/27.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.25	+26 33.4	1.972	2.773	14.0	18.7
1 2	9 7.43	+26 49.9	1.881	2.765	10.9	18.5
1 12	8 58.90	+27 6.8	1.814	2.756	7.3	18.2
1 22	8 48.34	+27 18.9	1.774	2.747	3.9	18.0
2 1	8 36.82	+27 20.9	1.764	2.738	3.9	18.0
2 11	8 25.71	+27 10.0	1.782	2.728	7.3	18.2
2 21	8 16.22	+26 45.7	1.828	2.718	11.1	18.4
3 2	8 9.24	+26 9.9	1.898	2.708	14.5	18.6

411217 2010 ND_{87} 1 28.6 48°.18 4°.1/31.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.37	+ 2 48.2	1.488	2.263	19.0	20.4
1 2	9 0.87	+ 3 37.7	1.424	2.282	15.3	20.2
1 12	8 54.70	+ 4 55.0	1.380	2.302	11.0	20.0
1 22	8 46.63	+ 6 36.6	1.360	2.323	6.5	19.8
2 1	8 37.75	+ 8 35.1	1.367	2.344	4.1	19.7
2 11	8 29.41	+10 39.9	1.402	2.365	6.8	19.9
2 21	8 22.73	+12 40.5	1.464	2.386	11.0	20.2
3 2	8 18.58	+14 28.8	1.551	2.408	14.8	20.5

455166 1999 AF_{16} 1 28.6 202°.74 1°.1/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.89	+17 34.5	2.085	2.880	13.6	21.0
1 2	9 2.38	+18 31.4	1.996	2.877	10.4	20.8
1 12	8 55.56	+19 38.9	1.930	2.874	6.7	20.5
1 22	8 46.99	+20 51.8	1.893	2.871	2.7	20.3
2 1	8 37.53	+22 4.1	1.885	2.867	2.1	20.2
2 11	8 28.28	+23 9.5	1.908	2.862	6.2	20.5
2 21	8 20.28	+24 3.8	1.959	2.858	10.0	20.7
3 2	8 14.36	+24 44.8	2.034	2.852	13.3	20.9

423137 2004 CR_{89} 1 28.6 334°.90 0°.8/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.76	+17 24.8	2.208	3.005	12.8	20.9
1 2	8 59.82	+18 14.1	2.121	3.004	9.8	20.7
1 12	8 53.80	+19 12.9	2.059	3.003	6.3	20.4
1 22	8 46.24	+20 16.8	2.024	3.002	2.5	20.2
2 1	8 37.94	+21 20.5	2.019	3.001	1.9	20.1
2 11	8 29.87	+22 18.6	2.044	3.000	5.6	20.4
2 21	8 22.93	+23 7.5	2.097	2.999	9.3	20.6
3 2	8 17.88	+23 44.9	2.175	2.999	12.4	20.8

242407 2004 FJ_{148} 1 28.6 230°.72 7°.7/ 5.0 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 1.91	−12 39.5	3.077	3.708	12.8	21.8
1 2	8 57.83	−13 5.8	2.970	3.698	11.4	21.7
1 12	8 52.25	−13 13.6	2.882	3.687	9.9	21.6
1 22	8 45.56	−13 0.9	2.817	3.676	8.6	21.5
2 1	8 38.31	−12 26.9	2.778	3.664	7.8	21.4
2 11	8 31.14	−11 33.1	2.767	3.652	7.9	21.4
2 21	8 24.70	−10 23.1	2.782	3.640	8.9	21.4
3 2	8 19.53	− 9 1.7	2.823	3.627	10.4	21.5

90149 2002 YX_{16} 1 28.6 241°.05 3°.4/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.83	+22 52.3	1.606	2.419	16.1	19.7
1 2	9 6.29	+23 54.6	1.518	2.409	12.5	19.5
1 12	8 58.59	+25 5.9	1.452	2.398	8.2	19.2
1 22	8 48.36	+26 18.4	1.412	2.387	4.2	18.9
2 1	8 36.79	+27 23.1	1.401	2.376	4.5	18.9
2 11	8 25.47	+28 12.2	1.417	2.364	8.7	19.1
2 21	8 15.91	+28 42.0	1.459	2.351	13.2	19.3
3 2	8 9.28	+28 52.6	1.522	2.338	17.1	19.6

378963 2008 UC_{210} 1 28.6 184°.78 0°.4/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.31	+17 51.6	2.284	3.076	12.6	21.6
1 2	9 1.64	+18 11.8	2.197	3.076	9.7	21.4
1 12	8 54.90	+18 39.1	2.134	3.076	6.3	21.2
1 22	8 46.67	+19 10.0	2.098	3.076	2.5	20.9
2 1	8 37.75	+19 40.9	2.092	3.075	1.5	20.8
2 11	8 29.10	+20 8.0	2.117	3.075	5.3	21.1
2 21	8 21.63	+20 28.8	2.169	3.074	8.9	21.3
3 2	8 16.03	+20 41.9	2.247	3.073	12.0	21.5

188981 2008 FC_{61} 1 28.6 180°.88 5°.1/ 1.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.70	+ 0 48.8	2.385	3.111	14.0	20.7
1 2	9 1.02	+ 0 33.9	2.291	3.113	11.6	20.6
1 12	8 54.44	+ 0 35.4	2.219	3.113	8.9	20.4
1 22	8 46.48	+ 0 53.9	2.173	3.113	6.4	20.2
2 1	8 37.84	+ 1 28.2	2.155	3.113	5.1	20.2
2 11	8 29.41	+ 2 15.3	2.167	3.112	6.3	20.2
2 21	8 22.00	+ 3 10.7	2.208	3.110	8.8	20.4
3 2	8 16.28	+ 4 9.7	2.274	3.108	11.5	20.6

334104 2001 QF_{226} 1 28.6 87°.37 0°.6/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.94	+16 2.6	2.336	3.121	12.6	20.4
1 2	9 1.91	+16 0.4	2.258	3.133	9.7	20.2
1 12	8 54.95	+16 5.1	2.205	3.144	6.4	20.0
1 22	8 46.64	+16 14.3	2.179	3.155	2.7	19.8
2 1	8 37.79	+16 25.5	2.183	3.167	1.3	19.7
2 11	8 29.31	+16 35.9	2.218	3.178	4.9	20.0
2 21	8 22.03	+16 43.5	2.281	3.189	8.3	20.2
3 2	8 16.57	+16 47.1	2.370	3.200	11.3	20.4

396172 2013 EC_{126} 1 28.6 115°.70 0°.4/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.20	+14 18.1	1.907	2.695	14.9	21.2
1 2	9 4.06	+14 51.2	1.836	2.711	11.5	21.0
1 12	8 56.55	+15 36.1	1.787	2.727	7.5	20.8
1 22	8 47.34	+16 28.7	1.766	2.743	3.1	20.5
2 1	8 37.42	+17 23.5	1.774	2.757	1.5	20.4
2 11	8 27.95	+18 15.3	1.812	2.772	5.8	20.8
2 21	8 19.96	+18 59.8	1.878	2.786	9.8	21.0
3 2	8 14.22	+19 34.8	1.968	2.799	13.2	21.3

433329 2013 QG_{80} 1 28.6 177°.69 13°.7/ 6.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.40	−14 35.6	1.400	2.083	24.0	21.2
1 2	9 4.49	−15 18.4	1.321	2.084	21.5	21.0
1 12	8 57.44	−15 22.2	1.255	2.086	18.7	20.8
1 22	8 47.90	−14 39.8	1.206	2.086	15.9	20.7
2 1	8 37.06	−13 7.7	1.179	2.086	14.0	20.6
2 11	8 26.52	−10 51.2	1.174	2.086	13.9	20.5
2 21	8 17.78	− 8 2.8	1.194	2.085	15.6	20.6
3 2	8 11.99	− 4 59.1	1.237	2.083	18.5	20.8

352790 2008 UT_{164} 1 28.6 7°.22 4°.2/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.33	+25 23.7	1.244	2.078	18.7	20.7
1 2	9 6.43	+25 57.9	1.177	2.078	14.4	20.5
1 12	8 58.84	+26 36.2	1.130	2.079	9.6	20.2
1 22	8 48.46	+27 10.4	1.105	2.080	5.1	19.9
2 1	8 36.84	+27 31.7	1.107	2.082	5.2	19.9
2 11	8 25.95	+27 34.8	1.133	2.085	9.7	20.2
2 21	8 17.48	+27 18.8	1.183	2.088	14.5	20.5
3 2	8 12.51	+26 46.4	1.252	2.092	18.7	20.7

100552 1997 FK_2 1 28.6 15°.62 7°.6/ 4.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 58.42	− 7 32.4	1.251	2.004	23.1	18.2
1 2	8 56.84	− 6 24.8	1.182	2.014	19.6	18.0
1 12	8 52.39	− 4 30.8	1.129	2.025	15.4	17.7
1 22	8 45.80	− 1 50.7	1.097	2.039	10.9	17.5
2 1	8 38.23	+ 1 26.7	1.091	2.054	7.8	17.4
2 11	8 31.14	+ 5 4.6	1.111	2.072	8.6	17.5
2 21	8 25.82	+ 8 42.5	1.159	2.090	12.3	17.8
3 2	8 23.24	+12 2.9	1.233	2.110	16.4	18.1

362627 2011 ST_{122} 1 28.6 56°.25 4°.5/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.17	+ 5 56.9	1.386	2.173	19.6	20.8
1 2	9 3.16	+ 5 53.3	1.324	2.191	15.7	20.6
1 12	8 56.26	+ 6 12.4	1.282	2.209	11.2	20.4
1 22	8 47.29	+ 6 52.8	1.263	2.227	6.7	20.2
2 1	8 37.48	+ 7 50.0	1.269	2.245	4.6	20.1
2 11	8 28.30	+ 8 56.9	1.302	2.264	7.4	20.3
2 21	8 21.00	+10 5.6	1.361	2.283	11.7	20.6
3 2	8 16.46	+11 9.7	1.442	2.301	15.6	20.9

313857 2004 FS_7 1 28.6 13°.38 18°.8/18.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	8 53.12	−26 40.5	1.085	1.747	30.7	19.0
1 2	8 53.27	−27 27.5	1.034	1.756	28.7	18.9
1 12	8 50.30	−27 17.0	0.990	1.768	26.3	18.7
1 22	8 45.00	−25 59.1	0.957	1.783	23.6	18.6
2 1	8 38.68	−23 29.2	0.937	1.800	21.1	18.5
2 11	8 32.98	−19 54.1	0.936	1.820	19.3	18.4
2 21	8 29.29	−15 32.0	0.955	1.843	18.9	18.5
3 2	8 28.56	−10 48.4	0.996	1.867	20.0	18.6

274628 2008 TP_{82} 1 28.6 163°.33 0°.7/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.99	+18 14.4	2.286	3.080	12.6	20.8
1 2	9 1.40	+18 44.9	2.201	3.082	9.6	20.6
1 12	8 54.76	+19 22.6	2.141	3.084	6.2	20.4
1 22	8 46.64	+20 3.9	2.108	3.086	2.5	20.1
2 1	8 37.82	+20 44.4	2.105	3.087	1.7	20.1
2 11	8 29.29	+21 20.1	2.132	3.088	5.4	20.3
2 21	8 21.92	+21 48.1	2.187	3.090	8.9	20.6
3 2	8 16.42	+22 7.1	2.268	3.091	12.0	20.8

522372 2016 CH_{302} 1 28.6 219°.41 2°.5/27.1 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.11	+24 31.8	2.221	3.018	12.8	22.2
1 2	9 4.73	+24 57.3	2.130	3.012	9.8	22.0
1 12	8 57.02	+25 25.2	2.063	3.006	6.5	21.8
1 22	8 47.58	+25 50.9	2.025	2.999	3.2	21.5
2 1	8 37.33	+26 9.8	2.016	2.992	3.2	21.5
2 11	8 27.38	+26 18.3	2.038	2.985	6.4	21.7
2 21	8 18.77	+26 15.4	2.087	2.977	9.9	21.9
3 2	8 12.30	+26 1.4	2.161	2.969	13.0	22.1

365519 2010 RN_{121} 1 28.6 205°.23 3°.0/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.63	+ 9 11.2	1.976	2.746	15.1	21.4
1 2	9 3.72	+ 9 1.9	1.883	2.743	12.1	21.2
1 12	8 56.44	+ 9 6.1	1.812	2.738	8.5	21.0
1 22	8 47.37	+ 9 22.9	1.767	2.734	4.8	20.7
2 1	8 37.43	+ 9 49.9	1.751	2.729	3.1	20.6
2 11	8 27.73	+10 23.2	1.764	2.723	6.1	20.8
2 21	8 19.33	+10 58.8	1.806	2.718	9.9	21.0
3 2	8 13.08	+11 33.0	1.872	2.711	13.4	21.2

211636 2003 UF_{162} 1 28.6 143°.97 1°.8/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.71	+20 39.5	1.924	2.723	14.4	21.1
1 2	9 5.36	+21 20.6	1.848	2.732	11.0	20.9
1 12	8 57.49	+22 8.5	1.796	2.740	7.1	20.7
1 22	8 47.78	+22 57.8	1.771	2.748	3.1	20.4
2 1	8 37.25	+23 42.4	1.776	2.756	2.7	20.4
2 11	8 27.16	+24 17.5	1.811	2.763	6.6	20.7
2 21	8 18.61	+24 40.5	1.872	2.769	10.5	20.9
3 2	8 12.44	+24 51.0	1.958	2.775	13.8	21.2

343296 2010 AO_{70} 1 28.6 7°.71 4°.4/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.61	+25 52.5	1.101	1.942	20.0	20.1
1 2	9 7.02	+26 16.3	1.037	1.943	15.5	19.8
1 12	8 59.41	+26 43.2	0.993	1.944	10.4	19.5
1 22	8 48.74	+27 4.5	0.970	1.946	5.4	19.2
2 1	8 36.77	+27 11.6	0.972	1.949	5.4	19.2
2 11	8 25.68	+26 59.5	0.998	1.953	10.2	19.5
2 21	8 17.29	+26 28.7	1.046	1.958	15.4	19.8
3 2	8 12.73	+25 42.8	1.113	1.964	19.8	20.1

242623 2005 KJ_8 1 28.6 180°.41 4°.1/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.76	+30 54.1	2.890	3.686	10.2	21.1
1 2	9 1.77	+31 56.6	2.810	3.687	7.9	20.9
1 12	8 54.92	+32 58.4	2.756	3.687	5.7	20.8
1 22	8 46.70	+33 54.2	2.731	3.688	4.2	20.7
2 1	8 37.83	+34 39.4	2.737	3.687	4.7	20.7
2 11	8 29.18	+35 10.5	2.772	3.687	6.6	20.8
2 21	8 21.56	+35 26.7	2.835	3.686	8.9	21.0
3 2	8 15.62	+35 28.4	2.922	3.684	11.1	21.1

243403 2009 AP_{48} 1 28.6 41°.99 3°.4/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.58	+ 7 41.7	2.198	2.963	13.9	20.7
1 2	9 0.30	+ 7 24.8	2.112	2.967	11.1	20.5
1 12	8 54.04	+ 7 20.7	2.049	2.970	8.0	20.3
1 22	8 46.36	+ 7 28.8	2.012	2.974	4.8	20.1
2 1	8 38.02	+ 7 47.5	2.004	2.978	3.4	20.0
2 11	8 29.97	+ 8 13.8	2.025	2.982	5.6	20.2
2 21	8 23.05	+ 8 44.1	2.073	2.986	8.8	20.4
3 2	8 17.95	+ 9 15.0	2.147	2.990	11.8	20.6

338936 2004 EG_{53} 1 28.6 291°.85 2°.4/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 2.47	+ 8 17.5	2.306	3.076	13.2	20.5
1 2	8 58.73	+ 8 36.1	2.209	3.068	10.5	20.3
1 12	8 53.08	+ 9 8.9	2.134	3.061	7.4	20.1
1 22	8 46.00	+ 9 54.3	2.086	3.054	4.1	19.9
2 1	8 38.20	+10 49.1	2.068	3.047	2.5	19.8
2 11	8 30.57	+11 49.0	2.079	3.040	5.1	19.9
2 21	8 23.93	+12 49.2	2.118	3.033	8.5	20.1
3 2	8 18.99	+13 45.7	2.184	3.026	11.7	20.3

313202 2001 RV 1 28.6 110°.11 3°.4/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.18	+27 12.7	2.033	2.831	13.8	20.7
1 2	9 7.80	+27 39.5	1.967	2.848	10.6	20.5
1 12	8 58.92	+28 5.9	1.925	2.865	7.0	20.3
1 22	8 48.31	+28 26.5	1.911	2.882	4.0	20.2
2 1	8 37.09	+28 36.3	1.927	2.898	4.0	20.2
2 11	8 26.51	+28 32.6	1.972	2.913	7.1	20.4
2 21	8 17.63	+28 15.7	2.045	2.929	10.4	20.6
3 2	8 11.18	+27 47.5	2.142	2.943	13.3	20.9

256846 2008 CT_{169} 1 28.6 41°.02 2°.1/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.67	+11 38.2	1.571	2.369	17.2	21.2
1 2	9 2.66	+11 41.1	1.497	2.375	13.5	20.9
1 12	8 55.95	+11 59.3	1.443	2.381	9.1	20.7
1 22	8 47.23	+12 30.4	1.415	2.388	4.5	20.4
2 1	8 37.62	+13 10.0	1.413	2.395	2.4	20.3
2 11	8 28.47	+13 52.7	1.439	2.403	6.6	20.6
2 21	8 20.99	+14 33.3	1.491	2.410	11.0	20.9
3 2	8 16.05	+15 7.9	1.566	2.418	15.0	21.1

202256 2005 AA_{31} 1 28.6 355°.88 1°.2/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.14	+16 42.1	1.224	2.057	19.0	19.6
1 2	9 0.88	+17 35.1	1.151	2.053	14.6	19.3
1 12	8 55.30	+18 45.6	1.098	2.050	9.5	19.0
1 22	8 47.12	+20 7.1	1.069	2.048	3.8	18.7
2 1	8 37.64	+21 29.5	1.064	2.047	2.8	18.6
2 11	8 28.61	+22 42.7	1.085	2.047	8.5	18.9
2 21	8 21.61	+23 39.6	1.129	2.048	13.8	19.2
3 2	8 17.77	+24 17.2	1.193	2.050	18.4	19.5

21298 1996 VX_{29} 1 28.6 344°.78 4°.9/26.2 18

12 23	9 10.23	+24 57.1	1.276	2.108	18.4	17.6
1 2	9 6.45	+26 5.0	1.206	2.106	14.2	17.3
1 12	8 58.98	+27 20.6	1.156	2.105	9.6	17.1
1 22	8 48.62	+28 33.7	1.131	2.104	5.5	16.8
2 1	8 36.87	+29 32.9	1.131	2.102	6.0	16.9
2 11	8 25.68	+30 10.2	1.156	2.102	10.4	17.1
2 21	8 16.81	+30 23.0	1.204	2.101	15.0	17.4
3 2	8 11.47	+30 13.5	1.272	2.101	19.2	17.6

208330 2001 QN_{47} 1 28.6 107°.48 1°.6/29.9 18

12 23	9 3.88	+ 9 57.7	2.475	3.244	12.4	20.6
1 2	8 59.54	+10 30.4	2.395	3.257	9.7	20.4
1 12	8 53.45	+11 15.2	2.339	3.269	6.6	20.2
1 22	8 46.11	+12 9.7	2.310	3.281	3.3	20.0
2 1	8 38.22	+13 10.1	2.312	3.293	1.7	19.9
2 11	8 30.60	+14 11.9	2.344	3.305	4.6	20.1
2 21	8 23.98	+15 11.1	2.406	3.317	7.8	20.4
3 2	8 18.99	+16 4.3	2.494	3.328	10.7	20.6

100224 1994 PO_{13} 1 28.6 95°.42 0°.5/28.8 18

12 23	9 10.32	+15 33.6	1.785	2.578	15.6	20.0
1 2	9 5.04	+15 46.3	1.717	2.595	12.0	19.8
1 12	8 57.25	+16 9.1	1.671	2.613	7.8	19.6
1 22	8 47.69	+16 38.4	1.652	2.629	3.3	19.3
2 1	8 37.42	+17 9.8	1.662	2.646	1.6	19.2
2 11	8 27.71	+17 38.7	1.701	2.662	6.1	19.6
2 21	8 19.63	+18 1.9	1.768	2.678	10.2	19.8
3 2	8 13.96	+18 17.7	1.858	2.694	13.7	20.1

138347 2000 GB_{114} 1 28.6 320°.45 3°.2/27.1 18 R

12 23	9 8.79	+24 29.7	1.516	2.339	16.5	19.3
1 2	9 4.84	+24 55.0	1.430	2.326	12.8	19.1
1 12	8 57.70	+25 24.7	1.365	2.313	8.5	18.8
1 22	8 48.06	+25 52.4	1.325	2.301	4.2	18.5
2 1	8 37.17	+26 11.1	1.312	2.289	4.2	18.5
2 11	8 26.66	+26 15.8	1.325	2.277	8.5	18.7
2 21	8 18.03	+26 4.9	1.363	2.267	13.1	18.9
3 2	8 12.40	+25 39.6	1.422	2.256	17.2	19.1

264159 2010 AS_{29} 1 28.6 278°.73 0°.8/28.9 18

12 23	9 11.78	+16 48.9	1.445	2.253	17.9	20.2
1 2	9 7.11	+16 34.6	1.358	2.244	14.0	19.9
1 12	8 59.17	+16 29.5	1.291	2.235	9.3	19.6
1 22	8 48.66	+16 31.1	1.248	2.226	4.0	19.3
2 1	8 36.87	+16 35.3	1.233	2.217	2.0	19.1
2 11	8 25.45	+16 38.2	1.245	2.207	7.5	19.4
2 21	8 15.95	+16 37.1	1.282	2.198	12.7	19.7
3 2	8 9.50	+16 30.6	1.341	2.189	17.2	19.9

18717 1998 HZ_{127} 1 28.6 235°.19 0°.4/28.9 18

12 23	9 4.10	+15 29.3	2.682	3.464	11.2	19.9
1 2	8 59.72	+15 45.8	2.584	3.456	8.7	19.7
1 12	8 53.60	+16 9.8	2.510	3.449	5.7	19.5
1 22	8 46.20	+16 38.8	2.465	3.441	2.4	19.3
2 1	8 38.18	+17 10.0	2.450	3.433	1.2	19.2
2 11	8 30.33	+17 40.2	2.466	3.425	4.5	19.4
2 21	8 23.40	+18 6.8	2.510	3.417	7.7	19.6
3 2	8 18.00	+18 28.0	2.581	3.408	10.6	19.8

95352 2002 CW_{138} 1 28.6 332°.22 2°.1/29.6 18

12 23	9 5.59	+12 24.7	1.717	2.513	16.0	19.5
1 2	9 1.77	+12 17.3	1.629	2.507	12.6	19.3
1 12	8 55.38	+12 22.5	1.562	2.500	8.6	19.0
1 22	8 47.04	+12 38.8	1.521	2.494	4.3	18.8
2 1	8 37.73	+13 3.0	1.506	2.488	2.4	18.6
2 11	8 28.73	+13 30.9	1.520	2.483	6.3	18.9
2 21	8 21.18	+13 58.4	1.560	2.478	10.7	19.1
3 2	8 16.00	+14 22.0	1.623	2.474	14.6	19.3

302053 2000 UN_{1} 1 28.6 156°.30 0°.5/28.9 18

12 23	9 11.08	+15 4.4	2.069	2.850	14.1	22.5
1 2	9 5.42	+15 24.0	1.987	2.859	10.9	22.3
1 12	8 57.45	+15 53.4	1.929	2.868	7.2	22.0
1 22	8 47.79	+16 29.2	1.899	2.875	3.0	21.8
2 1	8 37.38	+17 7.1	1.898	2.882	1.4	21.7
2 11	8 27.34	+17 42.7	1.928	2.887	5.6	22.0
2 21	8 18.68	+18 12.9	1.987	2.893	9.5	22.2
3 2	8 12.18	+18 35.7	2.071	2.897	12.8	22.4

94888 2001 XM_{254} 1 28.6 84°.81 4°.7/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.95	+27 4.3	1.495	2.312	16.9	19.6
1 2	9 8.53	+27 56.3	1.436	2.327	13.0	19.4
1 12	8 59.84	+28 49.9	1.399	2.343	8.8	19.2
1 22	8 48.81	+29 36.5	1.387	2.358	5.2	19.0
2 1	8 36.88	+30 7.9	1.403	2.372	5.5	19.1
2 11	8 25.76	+30 19.6	1.446	2.387	9.1	19.3
2 21	8 16.86	+30 11.6	1.514	2.402	13.1	19.6
3 2	8 11.10	+29 46.8	1.603	2.416	16.5	19.8

306564 2000 CC_{118} 1 28.6 344°.63 0°.2/28.7 18

12 23	9 5.25	+15 11.0	1.503	2.316	17.1	20.3
1 2	9 1.90	+15 41.1	1.422	2.311	13.3	20.1
1 12	8 55.67	+16 25.9	1.362	2.308	8.7	19.8
1 22	8 47.21	+17 21.0	1.326	2.304	3.6	19.5
2 1	8 37.65	+18 20.0	1.318	2.301	1.8	19.3
2 11	8 28.44	+19 15.6	1.336	2.299	7.1	19.7
2 21	8 20.93	+20 2.4	1.380	2.297	11.9	19.9
3 2	8 16.11	+20 37.0	1.447	2.296	16.1	20.2

501635 2014 SC_{214} 1 28.6 83°.25 0°.2/28.5 18

12 23	9 6.38	+15 19.2	1.876	2.673	14.8	21.3
1 2	9 2.06	+16 3.1	1.802	2.684	11.4	21.1
1 12	8 55.38	+16 58.9	1.752	2.695	7.4	20.9
1 22	8 46.97	+18 1.9	1.729	2.707	3.0	20.7
2 1	8 37.82	+19 6.1	1.735	2.718	1.6	20.6
2 11	8 29.05	+20 5.5	1.770	2.729	6.0	20.9
2 21	8 21.72	+20 55.8	1.832	2.740	10.0	21.2
3 2	8 16.60	+21 34.6	1.919	2.751	13.4	21.4

464990 2006 BU_{113} 1 28.6 5°.03 0°.8/28.1 16

12 23	9 7.77	+19 30.1	1.904	2.707	14.4	21.6
1 2	9 3.19	+19 42.7	1.821	2.707	11.1	21.4
1 12	8 56.14	+20 1.8	1.762	2.707	7.2	21.1
1 22	8 47.30	+20 23.7	1.729	2.707	2.9	20.9
2 1	8 37.65	+20 43.9	1.725	2.708	1.9	20.8
2 11	8 28.38	+20 58.6	1.750	2.708	6.2	21.1
2 21	8 20.57	+21 5.6	1.802	2.709	10.2	21.3
3 2	8 15.04	+21 4.2	1.877	2.710	13.7	21.5

313849 2004 EY_{37} 1 28.6 316°.91 3°.5/30.3 17

12 23	9 3.39	+ 8 56.7	1.481	2.281	17.9	20.8
1 2	9 0.66	+ 8 50.4	1.382	2.259	14.5	20.5
1 12	8 55.03	+ 9 2.9	1.303	2.238	10.3	20.2
1 22	8 47.04	+ 9 33.9	1.247	2.217	5.8	19.9
2 1	8 37.71	+10 20.5	1.217	2.196	3.7	19.7
2 11	8 28.45	+11 17.2	1.212	2.176	7.4	19.8
2 21	8 20.70	+12 16.8	1.233	2.157	12.3	20.1
3 2	8 15.62	+13 13.1	1.275	2.139	16.9	20.3

305651 2009 BL_{55} 1 28.6 330°.82 1°.6/28.1 18

12 23	9 13.48	+23 6.0	1.369	2.189	18.1	20.1
1 2	9 8.61	+22 46.9	1.286	2.180	14.1	19.8
1 12	9 0.20	+22 29.9	1.224	2.172	9.2	19.5
1 22	8 49.09	+22 10.3	1.186	2.164	3.9	19.2
2 1	8 36.71	+21 43.8	1.175	2.158	2.8	19.1
2 11	8 24.92	+21 8.2	1.191	2.151	8.2	19.4
2 21	8 15.35	+20 24.1	1.232	2.145	13.4	19.7
3 2	8 9.12	+19 33.4	1.294	2.140	17.8	19.9

105343 2000 QJ_{94} 1 28.6 246°.06 0°.2/28.7 18

12 23	9 6.26	+17 22.6	2.524	3.309	11.8	20.0
1 2	9 1.46	+17 24.4	2.427	3.303	9.1	19.8
1 12	8 54.77	+17 31.9	2.355	3.296	5.9	19.6
1 22	8 46.70	+17 42.8	2.311	3.289	2.4	19.4
2 1	8 37.99	+17 54.5	2.298	3.281	1.2	19.3
2 11	8 29.49	+18 4.4	2.315	3.274	4.8	19.5
2 21	8 22.03	+18 10.6	2.361	3.267	8.2	19.7
3 2	8 16.27	+18 11.9	2.432	3.259	11.1	19.9

378806 2008 ST_{188} 1 28.6 171°.76 0°.5/28.9 18

12 23	9 6.76	+15 24.6	2.521	3.300	12.0	22.4
1 2	9 1.78	+15 38.1	2.431	3.302	9.2	22.2
1 12	8 54.94	+15 59.2	2.367	3.305	6.1	22.0
1 22	8 46.76	+16 25.4	2.331	3.307	2.6	21.8
2 1	8 37.97	+16 53.6	2.325	3.308	1.2	21.7
2 11	8 29.43	+17 20.6	2.350	3.309	4.7	22.0
2 21	8 21.93	+17 43.8	2.404	3.310	8.1	22.2
3 2	8 16.14	+18 1.5	2.485	3.310	11.0	22.4

409436 2005 OD_{11} 1 28.6 75°.98 0°.8/29.2 18

12 23	9 7.24	+11 15.0	1.790	2.577	15.8	20.9
1 2	9 2.70	+12 17.2	1.726	2.600	12.2	20.7
1 12	8 55.76	+13 35.8	1.685	2.624	8.0	20.5
1 22	8 47.12	+15 5.4	1.671	2.647	3.5	20.3
2 1	8 37.79	+16 38.7	1.687	2.670	1.5	20.2
2 11	8 28.95	+18 8.0	1.732	2.693	5.9	20.5
2 21	8 21.62	+19 27.4	1.805	2.716	10.0	20.8
3 2	8 16.55	+20 33.1	1.903	2.738	13.4	21.1

97864 2000 QS_{28} 1 28.6 130°.37 1°.2/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 13.32	+19 54.6	1.986	2.777	14.3	20.7
1 2	9 7.18	+20 24.4	1.915	2.794	10.9	20.5
1 12	8 58.59	+21 0.4	1.869	2.811	7.0	20.3
1 22	8 48.27	+21 37.8	1.850	2.827	2.9	20.1
2 1	8 37.25	+22 11.4	1.861	2.842	2.2	20.1
2 11	8 26.76	+22 37.1	1.902	2.857	6.2	20.4
2 21	8 17.85	+22 52.8	1.972	2.870	10.0	20.6
3 2	8 11.28	+22 58.2	2.066	2.883	13.2	20.8

411293 2010 TU_{55} 1 28.6 123°.31 3°.9/30.9 18

12 23	9 8.07	+ 6 33.9	1.924	2.687	15.7	21.6
1 2	9 3.23	+ 6 21.7	1.844	2.697	12.6	21.4
1 12	8 56.09	+ 6 25.3	1.787	2.706	9.1	21.2
1 22	8 47.28	+ 6 44.1	1.755	2.716	5.6	21.0
2 1	8 37.74	+ 7 15.7	1.751	2.725	3.9	21.0
2 11	8 28.57	+ 7 56.1	1.776	2.733	6.3	21.1
2 21	8 20.78	+ 8 40.5	1.829	2.742	9.8	21.3
3 2	8 15.12	+ 9 24.4	1.907	2.749	13.1	21.6

9782 Edo 1 28.6 311°.48 5°.9/25.1 18 R

12 23	9 7.55	+28 18.9	1.551	2.378	16.0	16.9
1 2	9 4.09	+29 34.3	1.465	2.361	12.5	16.6
1 12	8 57.38	+30 54.3	1.402	2.345	8.8	16.4
1 22	8 48.04	+32 9.5	1.364	2.330	6.1	16.2
2 1	8 37.29	+33 9.7	1.352	2.314	6.9	16.2
2 11	8 26.80	+33 47.3	1.366	2.299	10.4	16.3
2 21	8 18.15	+33 59.7	1.404	2.285	14.4	16.5
3 2	8 12.56	+33 48.6	1.462	2.271	18.1	16.7

286790 2002 JB_{97} 1 28.6 251°.24 0°.4/28.9 18

12 23	9 7.85	+13 33.4	1.905	2.693	14.9	20.9
1 2	9 3.52	+14 16.3	1.800	2.676	11.7	20.6
1 12	8 56.61	+15 14.3	1.718	2.658	7.8	20.4
1 22	8 47.64	+16 23.8	1.663	2.640	3.3	20.0
2 1	8 37.51	+17 39.1	1.637	2.621	1.6	19.9
2 11	8 27.42	+18 53.1	1.641	2.601	6.3	20.1
2 21	8 18.57	+20 0.0	1.673	2.581	10.8	20.4
3 2	8 11.99	+20 55.7	1.729	2.561	14.7	20.6

323507 2004 RZ_{11} 1 28.6 221°.38 4°.4/31.5 16

12 23	9 5.64	+ 4 9.7	2.175	2.924	14.5	21.5
1 2	9 1.27	+ 3 58.2	2.078	2.919	11.9	21.3
1 12	8 54.82	+ 4 2.4	2.003	2.913	8.8	21.1
1 22	8 46.80	+ 4 22.7	1.953	2.907	5.9	20.9
2 1	8 38.00	+ 4 57.3	1.933	2.901	4.4	20.8
2 11	8 29.38	+ 5 42.9	1.941	2.894	6.2	20.9
2 21	8 21.85	+ 6 34.8	1.977	2.887	9.3	21.1
3 2	8 16.18	+ 7 28.3	2.039	2.880	12.4	21.3

198989 2005 VT_{101} 1 28.6 51°.40 1°.0/29.1 18

12 23	9 8.37	+13 21.4	1.244	2.060	19.7	20.3
1 2	9 4.56	+13 44.6	1.183	2.074	15.3	20.1
1 12	8 57.46	+14 25.7	1.143	2.088	10.1	19.8
1 22	8 47.95	+15 19.8	1.125	2.102	4.4	19.6
2 1	8 37.45	+16 19.6	1.133	2.117	2.0	19.4
2 11	8 27.66	+17 17.0	1.168	2.132	7.6	19.8
2 21	8 20.03	+18 5.7	1.227	2.148	12.7	20.2
3 2	8 15.52	+18 42.2	1.307	2.164	17.0	20.5

406109 2006 VX_{22} 1 28.6 62°.38 1°.2/27.9 18

12 23	9 8.37	+18 58.8	1.641	2.451	16.0	21.4
1 2	9 3.93	+19 32.0	1.573	2.462	12.2	21.2
1 12	8 56.76	+20 14.2	1.527	2.473	7.9	20.9
1 22	8 47.61	+21 0.0	1.506	2.484	3.2	20.7
2 1	8 37.63	+21 43.3	1.514	2.496	2.4	20.6
2 11	8 28.18	+22 18.5	1.549	2.507	6.9	21.0
2 21	8 20.45	+22 42.6	1.611	2.519	11.2	21.2
3 2	8 15.31	+22 54.5	1.696	2.530	14.8	21.5

123292 2000 UT_{101} 1 28.6 60°.29 0°.4/28.4 18

12 23	9 9.04	+18 24.0	1.786	2.589	15.2	20.2
1 2	9 4.16	+18 30.9	1.716	2.601	11.7	20.0
1 12	8 56.75	+18 45.2	1.669	2.613	7.5	19.7
1 22	8 47.56	+19 3.1	1.648	2.626	3.0	19.5
2 1	8 37.66	+19 20.5	1.656	2.639	1.7	19.4
2 11	8 28.30	+19 33.5	1.692	2.652	6.2	19.7
2 21	8 20.56	+19 40.0	1.755	2.665	10.3	20.0
3 2	8 15.21	+19 39.2	1.842	2.678	13.8	20.3

78565 2002 RX_{172} 1 28.6 44°.48 9°.9/23.0 18

12 23	9 15.61	+40 35.3	1.642	2.448	16.1	18.7
1 2	9 10.33	+42 3.5	1.582	2.451	13.4	18.5
1 12	9 1.34	+43 21.9	1.545	2.454	11.1	18.4
1 22	8 49.57	+44 19.0	1.533	2.457	9.9	18.3
2 1	8 36.62	+44 45.3	1.545	2.461	10.7	18.4
2 11	8 24.47	+44 37.4	1.582	2.464	12.9	18.5
2 21	8 14.79	+43 58.2	1.641	2.468	15.5	18.7
3 2	8 8.66	+42 54.3	1.720	2.471	18.0	18.9

240348 2003 QA_{94} 1 28.6 111°.61 0°.6/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.46	+14 25.5	1.810	2.599	15.6	21.3
1 2	9 5.17	+14 50.8	1.741	2.617	12.0	21.1
1 12	8 57.39	+15 27.8	1.694	2.634	7.9	20.9
1 22	8 47.82	+16 12.6	1.674	2.650	3.3	20.7
2 1	8 37.53	+17 0.0	1.683	2.666	1.5	20.6
2 11	8 27.74	+17 44.7	1.721	2.682	6.0	20.9
2 21	8 19.53	+18 22.7	1.787	2.696	10.1	21.2
3 2	8 13.71	+18 51.8	1.877	2.711	13.6	21.4

111632 2002 AB_{142} 1 28.6 132°.69 0°.3/28.8 18

12 23	9 9.79	+14 6.6	1.771	2.562	15.8	20.5
1 2	9 4.83	+14 47.4	1.696	2.573	12.2	20.3
1 12	8 57.28	+15 41.9	1.643	2.584	8.0	20.1
1 22	8 47.82	+16 45.3	1.617	2.594	3.3	19.8
2 1	8 37.51	+17 51.4	1.621	2.604	1.6	19.7
2 11	8 27.62	+18 53.7	1.653	2.613	6.3	20.1
2 21	8 19.29	+19 47.2	1.713	2.622	10.5	20.3
3 2	8 13.39	+20 29.2	1.797	2.630	14.2	20.6

164831 1999 TL_{52} 1 28.6 160°.23 0°.7/29.0 18

12 23	9 10.36	+14 42.2	2.103	2.883	14.0	21.5
1 2	9 4.88	+14 57.7	2.019	2.890	10.8	21.3
1 12	8 57.12	+15 23.0	1.959	2.897	7.1	21.1
1 22	8 47.72	+15 55.0	1.926	2.902	3.1	20.8
2 1	8 37.57	+16 29.7	1.924	2.907	1.4	20.7
2 11	8 27.77	+17 3.0	1.952	2.912	5.5	21.0
2 21	8 19.30	+17 31.6	2.008	2.915	9.3	21.3
3 2	8 12.93	+17 53.7	2.090	2.918	12.7	21.5

427337 2014 WR_{337} 1 28.6 67°.97 4°.9/ 1.0 18

12 23	9 8.16	+ 2 25.5	1.824	2.573	16.9	21.4
1 2	9 3.15	+ 2 29.2	1.768	2.607	13.7	21.2
1 12	8 55.91	+ 2 53.4	1.732	2.641	10.1	21.1
1 22	8 47.17	+ 3 36.9	1.722	2.675	6.6	20.9
2 1	8 37.91	+ 4 36.0	1.740	2.708	4.9	20.9
2 11	8 29.24	+ 5 44.9	1.787	2.741	6.5	21.0
2 21	8 22.07	+ 6 57.0	1.861	2.773	9.6	21.3
3 2	8 17.08	+ 8 6.8	1.961	2.806	12.7	21.6

146353 2001 OK_{103} 1 28.6 82°.73 5°.4/31.6 18

12 23	9 9.45	+ 3 51.6	1.850	2.602	16.6	19.7
1 2	9 4.21	+ 3 15.9	1.783	2.624	13.5	19.5
1 12	8 56.67	+ 2 57.7	1.737	2.646	10.1	19.4
1 22	8 47.51	+ 2 57.3	1.717	2.667	6.9	19.2
2 1	8 37.73	+ 3 13.5	1.724	2.688	5.4	19.2
2 11	8 28.46	+ 3 42.9	1.759	2.709	7.0	19.3
2 21	8 20.68	+ 4 20.5	1.821	2.729	10.1	19.5
3 2	8 15.11	+ 5 1.4	1.908	2.750	13.1	19.8

348652 2005 YV_{219} 1 28.6 355°.96 1°.3/29.0 17

12 23	9 3.78	+16 10.5	1.003	1.848	21.3	20.6
1 2	9 1.92	+15 48.8	0.935	1.841	16.7	20.3
1 12	8 56.27	+15 40.6	0.884	1.836	11.2	19.9
1 22	8 47.64	+15 43.6	0.855	1.833	4.9	19.6
2 1	8 37.60	+15 53.1	0.847	1.831	2.4	19.4
2 11	8 28.18	+16 3.7	0.863	1.831	8.7	19.8
2 21	8 21.18	+16 10.7	0.900	1.833	14.6	20.1
3 2	8 17.80	+16 11.1	0.956	1.837	19.7	20.4

315350 2007 UN_{13} 1 28.6 50°.66 1°.6/27.8 18

12 23	9 9.57	+19 27.4	1.364	2.185	18.1	20.9
1 2	9 5.23	+20 1.9	1.308	2.203	13.8	20.7
1 12	8 57.75	+20 46.2	1.272	2.221	8.8	20.5
1 22	8 48.03	+21 33.6	1.261	2.239	3.6	20.2
2 1	8 37.47	+22 16.7	1.276	2.258	2.8	20.2
2 11	8 27.67	+22 49.5	1.318	2.277	7.7	20.5
2 21	8 19.99	+23 8.9	1.385	2.296	12.4	20.9
3 2	8 15.30	+23 14.7	1.474	2.316	16.3	21.1

238766 2005 JF_{85} 1 28.6 270°.29 0°.4/28.3 18

12 23	9 4.61	+17 21.9	2.326	3.119	12.4	20.5
1 2	9 0.46	+17 50.8	2.230	3.110	9.6	20.3
1 12	8 54.29	+18 27.9	2.158	3.101	6.2	20.1
1 22	8 46.60	+19 9.7	2.114	3.092	2.5	19.8
2 1	8 38.16	+19 52.2	2.099	3.082	1.5	19.8
2 11	8 29.90	+20 31.2	2.115	3.073	5.3	20.0
2 21	8 22.71	+21 3.4	2.159	3.064	8.9	20.2
3 2	8 17.31	+21 27.1	2.228	3.055	12.0	20.4

54500 2000 OR_{44} 1 28.6 218°.04 1°.4/27.9 18

12 23	9 12.13	+22 22.7	2.113	2.906	13.5	19.1
1 2	9 6.36	+22 24.9	2.021	2.901	10.4	18.9
1 12	8 58.15	+22 29.8	1.954	2.896	6.8	18.7
1 22	8 48.17	+22 33.7	1.914	2.891	2.9	18.4
2 1	8 37.37	+22 33.0	1.905	2.886	2.3	18.4
2 11	8 26.93	+22 25.0	1.925	2.880	6.1	18.6
2 21	8 17.92	+22 8.9	1.974	2.873	9.9	18.8
3 2	8 11.15	+21 45.1	2.048	2.867	13.2	19.0

57432 2001 SM_{40} 1 28.6 326°.82 5°.9/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.20	+27 24.4	1.296	2.130	18.0	18.3
1 2	9 5.80	+28 32.4	1.221	2.122	14.1	18.1
1 12	8 58.69	+29 45.4	1.167	2.114	9.7	17.8
1 22	8 48.63	+30 53.1	1.137	2.106	6.3	17.6
2 1	8 37.09	+31 44.1	1.132	2.099	6.9	17.6
2 11	8 26.03	+32 10.6	1.152	2.093	11.0	17.8
2 21	8 17.26	+32 10.9	1.194	2.087	15.5	18.0
3 2	8 12.03	+31 47.8	1.256	2.082	19.5	18.3

173213 1998 SB_{104} 1 28.6 19°.35 2°.3/29.8 18

12 23	9 0.63	+10 26.3	1.035	1.869	21.6	19.1
1 2	8 59.01	+10 47.2	0.984	1.882	16.9	18.8
1 12	8 54.03	+11 32.5	0.951	1.897	11.4	18.6
1 22	8 46.61	+12 37.7	0.939	1.915	5.5	18.3
2 1	8 38.20	+13 54.3	0.951	1.934	2.7	18.2
2 11	8 30.58	+15 11.9	0.986	1.955	7.8	18.6
2 21	8 25.18	+16 21.5	1.044	1.977	13.1	18.9
3 2	8 22.91	+17 17.2	1.123	2.001	17.6	19.3

81383 2000 GP_{71} 1 28.6 250°.92 6°.8/ 1.9 18

12 23	9 5.46	− 1 43.6	2.062	2.787	15.9	19.3
1 2	9 1.34	− 2 10.3	1.959	2.774	13.5	19.1
1 12	8 55.01	− 2 17.1	1.876	2.761	10.8	18.8
1 22	8 46.95	− 2 2.1	1.817	2.748	8.2	18.7
2 1	8 37.97	− 1 25.1	1.785	2.735	6.8	18.6
2 11	8 29.08	− 0 29.3	1.781	2.721	7.8	18.6
2 21	8 21.30	+ 0 40.1	1.804	2.707	10.5	18.7
3 2	8 15.45	+ 1 56.4	1.852	2.692	13.5	18.9

68854 2002 HS_{9} 1 28.6 228°.41 3°.2/30.9 18

12 23	9 5.15	+ 6 41.1	2.425	3.179	13.1	20.1
1 2	9 0.73	+ 6 41.5	2.322	3.170	10.5	19.9
1 12	8 54.40	+ 6 55.3	2.242	3.160	7.6	19.7
1 22	8 46.64	+ 7 21.8	2.189	3.150	4.6	19.5
2 1	8 38.15	+ 7 59.0	2.166	3.140	3.2	19.4
2 11	8 29.79	+ 8 43.4	2.172	3.129	5.3	19.5
2 21	8 22.40	+ 9 31.1	2.208	3.118	8.4	19.7
3 2	8 16.68	+10 18.3	2.270	3.107	11.5	19.8

172834 2005 CO_{18} 1 28.6 193°.13 0°.5/28.9 18

12 23	9 8.29	+13 58.8	1.888	2.678	15.0	21.0
1 2	9 3.67	+14 30.4	1.800	2.676	11.7	20.7
1 12	8 56.57	+15 15.0	1.735	2.675	7.7	20.5
1 22	8 47.59	+16 8.8	1.696	2.673	3.3	20.2
2 1	8 37.67	+17 6.7	1.687	2.671	1.5	20.1
2 11	8 28.02	+18 2.8	1.707	2.668	6.0	20.4
2 21	8 19.76	+18 52.3	1.755	2.664	10.3	20.6
3 2	8 13.76	+19 32.2	1.827	2.661	13.9	20.8

408792 2000 GF_{2} 1 28.6 225°.57 8°.8/31.6 17

12 23	9 24.17	+ 0 15.0	1.058	1.818	26.0	23.1
1 2	9 18.66	− 0 8.7	0.958	1.803	22.1	22.8
1 12	9 8.20	+ 0 2.1	0.874	1.784	17.1	22.4
1 22	8 53.05	+ 0 54.9	0.809	1.762	11.7	22.0
2 1	8 34.55	+ 2 31.4	0.768	1.737	8.8	21.7
2 11	8 15.29	+ 4 43.1	0.753	1.708	12.5	21.8
2 21	7 58.17	+ 7 13.0	0.762	1.677	19.1	22.0
3 2	7 45.57	+ 9 43.0	0.791	1.641	25.8	22.2

430691 2003 YO_{17} 1 28.6 107°.17 14°.2/19.2 18

12 23	9 20.38	+38 44.6	1.124	1.951	20.7	20.5
1 2	9 15.99	+42 26.8	1.086	1.966	17.3	20.4
1 12	9 6.26	+46 0.3	1.071	1.980	14.8	20.3
1 22	8 51.98	+49 0.1	1.080	1.994	14.3	20.3
2 1	8 35.37	+51 6.2	1.113	2.007	15.9	20.4
2 11	8 19.64	+52 11.0	1.167	2.020	18.6	20.6
2 21	8 7.64	+52 21.1	1.238	2.032	21.4	20.8
3 2	8 1.00	+51 49.2	1.324	2.044	23.9	21.1

993 Moultona 1 28.6 49°.19 0°.8/29.1 18 R

12 23	9 5.75	+14 17.7	1.971	2.763	14.4	16.0
1 2	9 1.53	+14 32.6	1.889	2.767	11.1	15.8
1 12	8 55.05	+14 58.2	1.830	2.770	7.4	15.6
1 22	8 46.93	+15 31.8	1.798	2.774	3.2	15.3
2 1	8 38.05	+16 9.2	1.795	2.778	1.5	15.2
2 11	8 29.51	+16 46.1	1.821	2.783	5.6	15.5
2 21	8 22.29	+17 18.7	1.874	2.787	9.5	15.7
3 2	8 17.16	+17 44.5	1.952	2.791	13.0	15.9

425004 2009 DN_{39} 1 28.6 207°.49 6°.5/24.5 17

12 23	9 16.92	+40 50.7	2.653	3.429	11.5	21.1
1 2	9 9.79	+41 23.5	2.575	3.426	9.5	21.0
1 12	9 0.22	+41 47.5	2.520	3.423	7.6	20.8
1 22	8 48.96	+41 56.5	2.494	3.420	6.5	20.8
2 1	8 37.04	+41 46.2	2.496	3.416	6.9	20.8
2 11	8 25.70	+41 15.0	2.527	3.412	8.5	20.9
2 21	8 15.95	+40 24.8	2.586	3.408	10.6	21.0
3 2	8 8.57	+39 19.3	2.668	3.404	12.6	21.1

92582 2000 PZ_{1} 1 28.6 96°.79 2°.2/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.00	+22 29.6	1.576	2.384	16.6	19.4
1 2	9 8.34	+22 49.8	1.509	2.398	12.7	19.1
1 12	8 59.65	+23 14.8	1.465	2.411	8.3	18.9
1 22	8 48.81	+23 38.7	1.447	2.424	3.7	18.7
2 1	8 37.12	+23 55.6	1.457	2.437	3.1	18.7
2 11	8 26.15	+24 1.5	1.495	2.449	7.5	19.0
2 21	8 17.19	+23 55.3	1.559	2.462	11.8	19.2
3 2	8 11.15	+23 38.1	1.646	2.474	15.5	19.5

428695 2008 ON_{18} 1 28.6 106°.60 1°.5/27.4 18

12 23	9 6.85	+18 43.4	2.207	3.002	12.9	20.7
1 2	9 2.17	+19 52.1	2.135	3.017	9.8	20.5
1 12	8 55.37	+21 9.1	2.088	3.032	6.3	20.3
1 22	8 47.04	+22 29.0	2.069	3.047	2.7	20.1
2 1	8 38.03	+23 45.4	2.082	3.061	2.4	20.1
2 11	8 29.35	+24 52.7	2.124	3.075	5.9	20.3
2 21	8 21.91	+25 47.4	2.195	3.089	9.3	20.6
3 2	8 16.42	+26 28.0	2.291	3.102	12.3	20.8

93740 2000 VO_{51} 1 28.6 359°.85 0°.3/28.5 18

12 23	9 3.69	+15 22.7	1.609	2.420	16.2	19.1
1 2	9 0.54	+16 5.9	1.529	2.419	12.5	18.9
1 12	8 54.73	+17 3.5	1.472	2.418	8.1	18.6
1 22	8 46.90	+18 10.6	1.439	2.417	3.3	18.3
2 1	8 38.08	+19 20.5	1.434	2.418	1.8	18.2
2 11	8 29.60	+20 25.7	1.457	2.419	6.8	18.5
2 21	8 22.68	+21 20.6	1.506	2.420	11.3	18.8
3 2	8 18.23	+22 2.2	1.577	2.422	15.2	19.1

402040 2003 SY_{245} 1 28.6 136°.61 1°.2/27.9 18

12 23	9 11.89	+19 29.7	2.037	2.827	14.0	22.4
1 2	9 6.11	+20 1.7	1.963	2.842	10.7	22.2
1 12	8 57.95	+20 40.4	1.913	2.855	6.9	22.0
1 22	8 48.09	+21 21.0	1.890	2.868	2.8	21.8
2 1	8 37.51	+21 58.6	1.898	2.880	2.1	21.7
2 11	8 27.39	+22 28.7	1.937	2.891	6.1	22.0
2 21	8 18.76	+22 49.0	2.003	2.902	9.8	22.3
3 2	8 12.37	+22 58.9	2.094	2.911	13.0	22.5

465770 2009 WK_{210} 1 28.6 39°.27 0°.7/28.2 18

12 23	9 6.15	+17 55.9	1.895	2.698	14.4	21.5
1 2	9 1.99	+18 27.9	1.815	2.701	11.1	21.2
1 12	8 55.44	+19 9.0	1.759	2.704	7.2	21.0
1 22	8 47.12	+19 54.9	1.729	2.707	2.9	20.7
2 1	8 37.99	+20 40.2	1.728	2.711	1.9	20.7
2 11	8 29.22	+21 19.9	1.756	2.715	6.2	21.0
2 21	8 21.86	+21 50.5	1.811	2.718	10.2	21.2
3 2	8 16.72	+22 10.4	1.890	2.722	13.6	21.4

166720 2002 TP_{226} 1 28.6 33°.57 2°.7/26.8 18

12 23	9 5.30	+22 48.1	1.891	2.704	14.1	19.0
1 2	9 1.37	+23 40.7	1.822	2.713	10.7	18.8
1 12	8 55.02	+24 38.7	1.776	2.723	7.0	18.6
1 22	8 46.94	+25 36.2	1.758	2.733	3.4	18.4
2 1	8 38.10	+26 26.8	1.768	2.744	3.5	18.5
2 11	8 29.70	+27 5.4	1.806	2.755	7.0	18.7
2 21	8 22.77	+27 29.7	1.871	2.766	10.6	18.9
3 2	8 18.09	+27 39.4	1.959	2.778	13.7	19.2

306060 2010 GB_{65} 1 28.6 278°.74 4°.7/26.6 18

12 23	9 13.93	+27 37.9	1.532	2.349	16.6	20.6
1 2	9 9.04	+28 11.5	1.441	2.332	13.0	20.3
1 12	9 0.64	+28 46.9	1.371	2.315	8.9	20.0
1 22	8 49.44	+29 16.4	1.327	2.297	5.3	19.8
2 1	8 36.77	+29 31.5	1.309	2.280	5.5	19.7
2 11	8 24.43	+29 27.1	1.318	2.262	9.5	19.9
2 21	8 14.13	+29 2.6	1.352	2.245	14.0	20.1
3 2	8 7.09	+28 20.8	1.408	2.227	18.1	20.3

269562 2009 WM_{68} 1 28.6 72°.98 2°.5/30.2 18

12 23	9 5.36	+ 9 28.4	1.967	2.745	14.9	20.9
1 2	9 1.21	+ 9 35.5	1.885	2.750	11.8	20.7
1 12	8 54.85	+ 9 57.0	1.825	2.755	8.2	20.5
1 22	8 46.86	+10 31.0	1.791	2.760	4.4	20.3
2 1	8 38.14	+11 14.3	1.786	2.766	2.6	20.1
2 11	8 29.74	+12 2.1	1.809	2.771	5.7	20.4
2 21	8 22.62	+12 49.9	1.861	2.776	9.4	20.6
3 2	8 17.53	+13 33.6	1.937	2.782	12.8	20.8

451400 2011 HD_{73} 1 28.6 181°.52 3°.2/26.9 18

12 23	9 14.62	+24 1.5	1.778	2.579	15.3	22.4
1 2	9 8.83	+24 50.8	1.697	2.581	11.8	22.1
1 12	9 0.07	+25 45.2	1.639	2.582	7.8	21.9
1 22	8 49.07	+26 37.6	1.608	2.582	4.0	21.7
2 1	8 37.00	+27 20.7	1.607	2.581	4.1	21.7
2 11	8 25.36	+27 49.0	1.634	2.579	7.9	21.9
2 21	8 15.48	+28 0.5	1.688	2.577	11.9	22.1
3 2	8 8.36	+27 56.3	1.766	2.574	15.5	22.3

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
221194 2005 UF_{52}			1 28.6 57°.74		2°.0/29.6 18	
	h m	° ′			°	m
12 23	9 8.07	+12 43.0	1.786	2.576	15.7	20.2
1 2	9 3.45	+12 31.7	1.709	2.583	12.3	20.0
1 12	8 56.37	+12 32.0	1.654	2.590	8.3	19.7
1 22	8 47.49	+12 41.9	1.625	2.598	4.1	19.5
2 1	8 37.84	+12 58.7	1.623	2.605	2.3	19.4
2 11	8 28.62	+13 18.6	1.650	2.613	6.1	19.6
2 21	8 20.91	+13 38.1	1.705	2.620	10.1	19.9
3 2	8 15.52	+13 54.5	1.783	2.628	13.7	20.1
58405 1995 WN_{9}			1 28.6 129°.42		5°.3/24.9 18	
12 23	9 12.00	+32 55.3	2.333	3.130	12.3	19.9
1 2	9 6.18	+33 57.2	2.268	3.143	9.6	19.7
1 12	8 57.99	+34 56.0	2.228	3.155	7.1	19.6
1 22	8 48.12	+35 45.0	2.216	3.168	5.4	19.5
2 1	8 37.55	+36 18.5	2.233	3.179	5.9	19.5
2 11	8 27.46	+36 33.4	2.279	3.191	8.0	19.7
2 21	8 18.85	+36 29.7	2.352	3.201	10.6	19.9
3 2	8 12.49	+36 9.8	2.448	3.212	12.9	20.0
196831 2003 SA_{243}			1 28.6 121°.75		1°.3/27.8 18	
12 23	9 7.29	+20 10.1	2.251	3.047	12.7	21.1
1 2	9 2.46	+20 42.2	2.173	3.055	9.7	20.9
1 12	8 55.54	+21 20.0	2.120	3.063	6.2	20.7
1 22	8 47.12	+21 59.5	2.094	3.071	2.6	20.5
2 1	8 38.05	+22 36.0	2.098	3.079	2.1	20.5
2 11	8 29.33	+23 5.8	2.133	3.087	5.6	20.7
2 21	8 21.85	+23 26.5	2.195	3.094	9.1	21.0
3 2	8 16.31	+23 37.3	2.282	3.101	12.0	21.2
339440 2005 EK_{152}			1 28.6 122°.62		6°.7/23.4 18	
12 23	9 13.68	+40 55.6	2.675	3.456	11.3	21.0
1 2	9 7.32	+41 54.9	2.617	3.470	9.3	20.9
1 12	8 58.64	+42 45.8	2.584	3.484	7.6	20.8
1 22	8 48.35	+43 22.2	2.578	3.497	6.7	20.8
2 1	8 37.45	+43 39.3	2.600	3.510	7.2	20.8
2 11	8 27.08	+43 35.3	2.651	3.522	8.7	20.9
2 21	8 18.23	+43 11.4	2.727	3.534	10.6	21.1
3 2	8 11.62	+42 30.8	2.825	3.546	12.3	21.2
457842 2009 SD_{123}			1 28.6 274°.92		6°.6/ 1.3 17	
12 23	9 5.35	+ 0 19.8	1.973	2.713	16.1	21.1
1 2	9 1.38	− 0 14.9	1.871	2.698	13.6	20.9
1 12	8 55.12	− 0 31.1	1.789	2.684	10.7	20.7
1 22	8 47.06	− 0 26.8	1.732	2.670	7.9	20.5
2 1	8 38.04	− 0 1.8	1.700	2.655	6.6	20.4
2 11	8 29.12	+ 0 41.1	1.697	2.641	7.8	20.4
2 21	8 21.34	+ 1 37.1	1.720	2.626	10.7	20.5
3 2	8 15.59	+ 2 40.0	1.767	2.611	13.9	20.7
256942 2008 EM_{42}			1 28.6 307°.68		1°.3/29.3 18	
12 23	9 5.25	+13 14.6	1.617	2.420	16.5	20.9
1 2	9 1.90	+13 26.7	1.520	2.402	13.0	20.7
1 12	8 55.76	+13 53.6	1.444	2.386	8.8	20.4
1 22	8 47.41	+14 32.7	1.393	2.369	4.0	20.1
2 1	8 37.84	+15 19.5	1.369	2.353	1.9	19.9
2 11	8 28.43	+16 8.0	1.373	2.337	6.8	20.1
2 21	8 20.49	+16 52.8	1.402	2.321	11.6	20.4
3 2	8 15.09	+17 29.7	1.454	2.306	15.9	20.6
13680 1997 PY			1 28.6 225°.95		0°.7/29.1 18	
12 23	9 5.64	+14 32.8	2.266	3.051	12.9	19.7
1 2	9 1.24	+14 47.3	2.174	3.048	10.1	19.5
1 12	8 54.80	+15 11.2	2.106	3.044	6.7	19.2
1 22	8 46.86	+15 41.9	2.065	3.041	2.9	19.0
2 1	8 38.21	+16 15.9	2.054	3.037	1.4	18.9
2 11	8 29.78	+16 49.5	2.073	3.033	5.1	19.1
2 21	8 22.46	+17 19.5	2.120	3.030	8.8	19.3
3 2	8 16.98	+17 43.6	2.192	3.026	11.9	19.5
429054 2009 DY_{61}			1 28.6 197°.13		3°.5/25.9 17	
12 23	9 7.56	+29 41.6	2.815	3.610	10.4	21.6
1 2	9 2.43	+30 18.8	2.730	3.608	8.1	21.4
1 12	8 55.42	+30 54.9	2.671	3.606	5.6	21.3
1 22	8 47.07	+31 25.7	2.640	3.603	3.7	21.1
2 1	8 38.12	+31 47.0	2.640	3.601	4.0	21.2
2 11	8 29.43	+31 56.4	2.670	3.598	6.2	21.3
2 21	8 21.82	+31 53.0	2.727	3.595	8.7	21.4
3 2	8 15.92	+31 37.8	2.810	3.591	11.0	21.6
238733 2005 GS_{110}			1 28.6 201°.11		0°.2/28.7 17	
12 23	9 5.26	+16 12.3	2.474	3.259	12.0	21.8
1 2	9 0.77	+16 30.1	2.382	3.258	9.2	21.6
1 12	8 54.41	+16 55.5	2.316	3.256	6.0	21.4
1 22	8 46.68	+17 25.7	2.277	3.254	2.5	21.1
2 1	8 38.31	+17 57.5	2.268	3.252	1.2	21.0
2 11	8 30.17	+18 27.3	2.290	3.250	4.8	21.3
2 21	8 23.05	+18 52.5	2.341	3.247	8.2	21.5
3 2	8 17.63	+19 11.4	2.417	3.245	11.2	21.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
372624 2009 VT_{49}			1 28.6 341°.40		3°.6/26.6 18	
	h m	° ′			°	m
12 23	9 6.43	+24 32.6	1.702	2.522	15.1	20.3
1 2	9 2.70	+25 22.7	1.622	2.517	11.6	20.1
1 12	8 56.18	+26 18.0	1.565	2.511	7.7	19.8
1 22	8 47.53	+27 11.9	1.533	2.507	4.2	19.6
2 1	8 37.86	+27 56.8	1.529	2.502	4.4	19.6
2 11	8 28.55	+28 27.3	1.552	2.499	8.1	19.8
2 21	8 20.88	+28 40.7	1.600	2.495	12.1	20.0
3 2	8 15.81	+28 37.7	1.671	2.493	15.6	20.3
418166 2008 AY_{137}			1 28.6 255°.76		5°.4/25.4 18	
12 23	9 11.48	+30 20.0	1.899	2.708	14.2	21.7
1 2	9 6.51	+31 17.8	1.813	2.697	11.1	21.4
1 12	8 58.65	+32 15.9	1.750	2.687	7.9	21.2
1 22	8 48.55	+33 6.4	1.714	2.676	5.6	21.1
2 1	8 37.34	+33 41.8	1.706	2.664	6.1	21.1
2 11	8 26.45	+33 57.2	1.726	2.653	9.1	21.2
2 21	8 17.21	+33 51.7	1.771	2.641	12.5	21.4
3 2	8 10.64	+33 27.5	1.839	2.629	15.6	21.6
294292 2007 UA_{131}			1 28.6 242°.46		6°.6/22.5 18	
12 23	9 9.48	+38 7.1	2.599	3.392	11.2	20.9
1 2	9 4.47	+39 29.0	2.517	3.382	9.2	20.8
1 12	8 57.07	+40 46.6	2.461	3.371	7.4	20.6
1 22	8 47.85	+41 52.8	2.433	3.360	6.6	20.6
2 1	8 37.70	+42 41.2	2.433	3.349	7.3	20.6
2 11	8 27.74	+43 8.2	2.461	3.338	9.1	20.7
2 21	8 19.06	+43 13.2	2.514	3.326	11.2	20.8
3 2	8 12.50	+42 58.5	2.589	3.314	13.2	20.9
243761 2000 QP_{220}			1 28.6 104°.83		1°.6/29.5 18	
12 23	9 9.78	+11 42.7	1.657	2.445	16.8	21.1
1 2	9 4.93	+12 4.6	1.587	2.460	13.1	20.9
1 12	8 57.41	+12 41.9	1.538	2.475	8.8	20.7
1 22	8 47.96	+13 31.2	1.515	2.489	4.1	20.5
2 1	8 37.69	+14 26.9	1.521	2.504	2.0	20.3
2 11	8 27.94	+15 22.9	1.555	2.517	6.3	20.6
2 21	8 19.85	+16 13.9	1.616	2.531	10.7	20.9
3 2	8 14.27	+16 56.3	1.701	2.544	14.4	21.2
343652 2010 JG_{122}			1 28.6 228°.18		1°.2/27.7 17	
12 23	9 4.82	+20 13.0	2.576	3.369	11.3	21.3
1 2	9 0.44	+20 47.5	2.484	3.365	8.7	21.1
1 12	8 54.21	+21 27.6	2.417	3.360	5.6	20.9
1 22	8 46.61	+22 9.5	2.378	3.355	2.4	20.7
2 1	8 38.36	+22 49.4	2.369	3.350	2.0	20.6
2 11	8 30.30	+23 23.4	2.391	3.345	5.2	20.8
2 21	8 23.24	+23 49.2	2.442	3.339	8.3	21.0
3 2	8 17.83	+24 5.7	2.518	3.334	11.2	21.2
255843 2006 SJ_{116}			1 28.6 28°.29		1°.4/27.9 18	
12 23	9 7.55	+19 28.0	1.420	2.241	17.4	20.9
1 2	9 3.74	+19 53.3	1.354	2.249	13.4	20.7
1 12	8 56.89	+20 28.0	1.309	2.257	8.6	20.4
1 22	8 47.80	+21 6.5	1.288	2.266	3.5	20.2
2 1	8 37.77	+21 42.2	1.294	2.276	2.6	20.1
2 11	8 28.36	+22 9.3	1.326	2.286	7.5	20.5
2 21	8 20.89	+22 24.8	1.384	2.297	12.2	20.7
3 2	8 16.30	+22 28.0	1.463	2.309	16.2	21.0
147267 2002 YE_{11}			1 28.6 300°.87		4°.2/25.7 18	
12 23	9 6.33	+24 0.8	1.732	2.550	14.9	19.4
1 2	9 2.75	+25 26.6	1.646	2.539	11.5	19.1
1 12	8 56.33	+27 1.3	1.583	2.528	7.7	18.9
1 22	8 47.66	+28 36.6	1.546	2.518	4.5	18.6
2 1	8 37.78	+30 3.0	1.538	2.507	5.2	18.7
2 11	8 28.07	+31 12.1	1.558	2.497	8.8	18.8
2 21	8 19.90	+31 59.9	1.603	2.486	12.8	19.1
3 2	8 14.34	+32 25.8	1.670	2.476	16.3	19.3
274612 2008 TH_{58}			1 28.6 198°.71		5°.4/25.0 18	
12 23	9 10.31	+32 34.3	2.179	2.982	12.8	21.1
1 2	9 5.16	+33 29.7	2.102	2.982	10.1	20.9
1 12	8 57.51	+34 22.7	2.050	2.981	7.4	20.8
1 22	8 48.00	+35 6.4	2.025	2.980	5.5	20.7
2 1	8 37.66	+35 34.7	2.029	2.979	6.1	20.7
2 11	8 27.73	+35 44.2	2.060	2.978	8.4	20.8
2 21	8 19.30	+35 34.7	2.118	2.977	11.2	21.0
3 2	8 13.21	+35 8.3	2.199	2.975	13.8	21.2
148604 Shobbrook			1 28.6 37°.62		0°.7/28.4 18	
12 23	9 14.19	+21 26.3	1.405	2.219	18.0	19.3
1 2	9 8.59	+20 58.4	1.345	2.236	13.8	19.1
1 12	8 59.84	+20 34.2	1.307	2.253	8.9	18.8
1 22	8 48.91	+20 10.4	1.293	2.271	3.6	18.6
2 1	8 37.27	+19 43.8	1.307	2.290	2.1	18.5
2 11	8 26.56	+19 12.9	1.348	2.309	7.2	18.9
2 21	8 18.10	+18 37.7	1.415	2.329	11.9	19.2
3 2	8 12.69	+17 59.3	1.504	2.350	15.8	19.5

226880 2004 TY_{107} 1 28.6 73°.35 0°.4/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 6.21	+14 40.7	1.921	2.715	14.6	20.5
1 2	9 1.92	+15 9.5	1.846	2.725	11.3	20.3
1 12	8 55.34	+15 49.7	1.794	2.735	7.4	20.1
1 22	8 47.10	+16 37.5	1.768	2.745	3.1	19.8
2 1	8 38.13	+17 28.1	1.772	2.756	1.4	19.7
2 11	8 29.55	+18 16.1	1.805	2.766	5.7	20.0
2 21	8 22.35	+18 57.5	1.865	2.776	9.7	20.3
3 2	8 17.28	+19 30.0	1.949	2.786	13.1	20.5

270917 2002 TP_{380} 1 28.6 180°.33 1°.0/29.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.32	+13 1.4	2.691	3.462	11.5	22.0
1 2	9 0.64	+13 16.5	2.598	3.463	8.9	21.8
1 12	8 54.24	+13 40.5	2.530	3.463	6.0	21.6
1 22	8 46.61	+14 11.1	2.490	3.464	2.8	21.4
2 1	8 38.39	+14 45.6	2.481	3.463	1.4	21.3
2 11	8 30.37	+15 20.7	2.502	3.463	4.4	21.5
2 21	8 23.28	+15 53.6	2.554	3.462	7.6	21.7
3 2	8 17.72	+16 22.1	2.631	3.460	10.3	21.9

423151 2004 EK_{59} 1 28.6 305°.16 6°.2/ 1.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.76	+ 0 52.8	2.169	2.907	14.9	20.5
1 2	9 0.02	+ 0 10.6	2.058	2.884	12.6	20.3
1 12	8 54.18	− 0 16.0	1.968	2.862	9.9	20.1
1 22	8 46.70	− 0 24.9	1.903	2.840	7.4	19.9
2 1	8 38.30	− 0 15.6	1.864	2.817	6.2	19.8
2 11	8 29.95	+ 0 10.3	1.854	2.795	7.4	19.8
2 21	8 22.58	+ 0 49.2	1.870	2.774	10.1	19.9
3 2	8 17.01	+ 1 36.1	1.911	2.752	13.1	20.1

419701 2010 UE_{59} 1 28.6 139°.00 6°.5/24.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.17	+33 30.6	1.968	2.774	13.9	21.2
1 2	9 6.89	+34 49.6	1.901	2.780	11.0	21.0
1 12	8 58.78	+36 5.9	1.858	2.785	8.2	20.8
1 22	8 48.56	+37 10.7	1.842	2.791	6.6	20.8
2 1	8 37.40	+37 56.4	1.853	2.796	7.2	20.8
2 11	8 26.72	+38 18.6	1.893	2.801	9.6	21.0
2 21	8 17.79	+38 17.4	1.957	2.805	12.5	21.1
3 2	8 11.51	+37 55.8	2.044	2.810	15.1	21.3

19260 1995 GT 1 28.6 283°.19 14°.8/18.6 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 29.37	+53 3.1	1.683	2.446	17.6	17.8
1 2	9 22.81	+54 49.1	1.606	2.420	16.1	17.6
1 12	9 10.69	+56 18.4	1.549	2.394	15.0	17.5
1 22	8 53.87	+57 14.9	1.513	2.367	14.9	17.4
2 1	8 34.62	+57 24.6	1.500	2.340	15.8	17.4
2 11	8 16.26	+56 42.7	1.507	2.313	17.5	17.4
2 21	8 1.68	+55 14.4	1.534	2.285	19.7	17.5
3 2	7 52.53	+53 11.2	1.577	2.258	22.0	17.6

155935 2001 QN_{15} 1 28.6 156°.67 2°.7/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.54	+22 45.9	1.762	2.565	15.4	20.6
1 2	9 7.92	+23 29.6	1.687	2.572	11.8	20.4
1 12	8 59.43	+24 18.9	1.634	2.578	7.7	20.2
1 22	8 48.83	+25 7.4	1.608	2.584	3.7	19.9
2 1	8 37.28	+25 48.1	1.612	2.589	3.6	19.9
2 11	8 26.21	+26 16.0	1.644	2.593	7.5	20.2
2 21	8 16.90	+26 29.0	1.703	2.597	11.5	20.4
3 2	8 10.28	+26 27.7	1.785	2.600	15.1	20.7

264870 2002 RH_{219} 1 28.6 126°.90 1°.4/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.67	+10 55.0	2.404	3.176	12.7	21.0
1 2	9 0.30	+11 23.5	2.320	3.185	9.9	20.8
1 12	8 54.10	+12 3.9	2.260	3.193	6.7	20.6
1 22	8 46.57	+12 53.6	2.228	3.201	3.2	20.4
2 1	8 38.43	+13 48.8	2.226	3.208	1.6	20.3
2 11	8 30.55	+14 45.3	2.255	3.216	4.8	20.5
2 21	8 23.71	+15 38.9	2.312	3.223	8.1	20.7
3 2	8 18.55	+16 26.6	2.396	3.230	11.0	20.9

424792 2008 TM_{188} 1 28.6 90°.30 6°.1/ 1.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.39	− 0 58.9	2.259	2.979	14.8	22.0
1 2	9 1.59	− 1 34.6	2.185	2.997	12.4	21.8
1 12	8 54.90	− 1 52.8	2.132	3.015	9.8	21.7
1 22	8 46.87	− 1 52.3	2.104	3.033	7.4	21.6
2 1	8 38.29	− 1 33.9	2.104	3.051	6.2	21.5
2 11	8 30.06	− 1 0.2	2.132	3.068	7.0	21.6
2 21	8 22.98	− 0 15.6	2.188	3.085	9.2	21.8
3 2	8 17.67	+ 0 35.0	2.269	3.102	11.6	21.9

116799 2004 EQ_{59} 1 28.6 251°.87 1°.2/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.87	+14 51.0	2.035	2.819	14.3	20.2
1 2	9 4.82	+14 42.3	1.933	2.805	11.2	20.0
1 12	8 57.34	+14 42.1	1.853	2.791	7.5	19.7
1 22	8 47.99	+14 48.5	1.801	2.776	3.4	19.4
2 1	8 37.68	+14 58.8	1.778	2.761	1.7	19.3
2 11	8 27.54	+15 9.9	1.785	2.746	5.8	19.5
2 21	8 18.68	+15 19.0	1.820	2.730	9.9	19.7
3 2	8 11.97	+15 24.4	1.879	2.714	13.6	19.9

74383 1998 XC_{18} 1 28.6 217°.03 0°.6/29.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.81	+14 57.4	2.226	3.013	13.1	20.4
1 2	9 1.40	+15 11.1	2.137	3.012	10.2	20.2
1 12	8 54.93	+15 33.8	2.071	3.010	6.7	20.0
1 22	8 46.95	+16 3.1	2.032	3.008	2.9	19.7
2 1	8 38.24	+16 35.3	2.023	3.007	1.3	19.6
2 11	8 29.80	+17 6.8	2.044	3.005	5.2	19.9
2 21	8 22.49	+17 34.3	2.093	3.003	8.8	20.1
3 2	8 17.06	+17 55.8	2.167	3.001	12.1	20.3

31400 Dakshdua 1 28.6 338°.46 0°.8/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.18	+16 56.6	1.261	2.088	18.9	18.3
1 2	9 3.28	+17 31.5	1.183	2.081	14.7	18.0
1 12	8 56.99	+18 22.0	1.125	2.075	9.6	17.7
1 22	8 48.02	+19 22.4	1.091	2.070	3.9	17.3
2 1	8 37.68	+20 24.5	1.082	2.065	2.4	17.2
2 11	8 27.74	+21 19.6	1.098	2.061	8.3	17.5
2 21	8 19.82	+22 1.6	1.138	2.057	13.7	17.8
3 2	8 15.12	+22 27.7	1.199	2.055	18.3	18.1

380252 2001 WL_{60} 1 28.6 82°.88 2°.4/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.82	+24 3.2	2.370	3.170	12.0	20.8
1 2	9 2.02	+24 43.0	2.301	3.185	9.1	20.6
1 12	8 55.22	+25 25.5	2.257	3.200	5.9	20.5
1 22	8 47.02	+26 6.0	2.240	3.214	3.0	20.3
2 1	8 38.25	+26 40.1	2.254	3.229	3.1	20.3
2 11	8 29.88	+27 4.3	2.298	3.243	5.9	20.5
2 21	8 22.73	+27 17.2	2.369	3.258	9.0	20.7
3 2	8 17.46	+27 18.7	2.465	3.272	11.6	20.9

224416 2005 UY_{355} 1 28.6 228°.75 2°.4/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.77	+22 13.7	2.016	2.821	13.6	21.1
1 2	9 3.27	+23 1.2	1.930	2.817	10.5	20.8
1 12	8 56.35	+23 54.9	1.868	2.813	6.8	20.6
1 22	8 47.59	+24 49.4	1.833	2.809	3.2	20.4
2 1	8 37.93	+25 38.5	1.828	2.805	3.2	20.4
2 11	8 28.55	+26 17.1	1.851	2.800	6.8	20.6
2 21	8 20.53	+26 42.4	1.902	2.796	10.5	20.8
3 2	8 14.73	+26 53.9	1.976	2.791	13.8	21.0

169586 2002 GW_{40} 1 28.6 224°.61 2°.9/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.66	+ 8 55.1	1.945	2.715	15.3	21.4
1 2	9 3.96	+ 8 54.0	1.847	2.707	12.2	21.1
1 12	8 56.82	+ 9 7.5	1.771	2.698	8.6	20.9
1 22	8 47.81	+ 9 34.6	1.721	2.688	4.8	20.6
2 1	8 37.81	+10 12.6	1.700	2.678	3.0	20.5
2 11	8 28.00	+10 57.0	1.707	2.668	6.1	20.7
2 21	8 19.45	+11 43.1	1.743	2.656	10.1	20.9
3 2	8 13.07	+12 26.6	1.804	2.645	13.8	21.1

305559 2008 UQ_{336} 1 28.6 265°.78 4°.3/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.36	+25 31.9	1.553	2.370	16.4	20.9
1 2	9 6.95	+26 26.8	1.467	2.359	12.7	20.6
1 12	8 59.25	+27 27.4	1.403	2.348	8.6	20.4
1 22	8 48.92	+28 25.5	1.364	2.336	4.9	20.1
2 1	8 37.23	+29 12.2	1.353	2.325	5.3	20.1
2 11	8 25.85	+29 40.7	1.369	2.313	9.3	20.3
2 21	8 16.37	+29 48.5	1.409	2.301	13.6	20.5
3 2	8 9.95	+29 37.1	1.471	2.289	17.6	20.8

159779 2003 MM_{3} 1 28.6 163°.03 4°.1/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.94	+ 8 20.0	2.109	2.856	15.0	20.1
1 2	9 9.10	+ 7 27.1	2.019	2.863	12.1	19.9
1 12	8 59.89	+ 6 44.4	1.954	2.869	8.7	19.7
1 22	8 48.97	+ 6 12.6	1.916	2.874	5.5	19.5
2 1	8 37.28	+ 5 51.8	1.908	2.878	4.2	19.5
2 11	8 25.97	+ 5 40.6	1.931	2.882	6.4	19.6
2 21	8 16.06	+ 5 36.9	1.984	2.885	9.8	19.8
3 2	8 8.35	+ 5 38.2	2.062	2.887	12.9	20.0

113393 2002 SJ_{21} 1 28.6 160°.10 0°.6/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.66	+14 20.1	2.696	3.471	11.4	20.8
1 2	9 0.88	+14 38.2	2.608	3.476	8.8	20.6
1 12	8 54.40	+15 4.3	2.545	3.481	5.8	20.4
1 22	8 46.69	+15 36.1	2.510	3.486	2.5	20.2
2 1	8 38.43	+16 10.4	2.506	3.490	1.2	20.1
2 11	8 30.41	+16 44.1	2.534	3.493	4.4	20.3
2 21	8 23.33	+17 14.5	2.590	3.497	7.5	20.5
3 2	8 17.80	+17 39.7	2.673	3.500	10.3	20.7

5575 Ryanpark 1 28.7 91°.97 0°.1/28.7 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.45	+16 17.3	2.372	3.157	12.4	17.9
1 2	9 1.63	+16 38.8	2.300	3.175	9.5	17.7
1 12	8 54.92	+17 7.8	2.252	3.192	6.2	17.6
1 22	8 46.91	+17 41.2	2.233	3.210	2.5	17.4
2 1	8 38.37	+18 15.3	2.244	3.227	1.2	17.3
2 11	8 30.20	+18 46.7	2.285	3.244	4.9	17.6
2 21	8 23.18	+19 12.7	2.354	3.261	8.2	17.8
3 2	8 17.94	+19 31.8	2.450	3.277	11.1	18.0

39645 Davelharris 1 28.7 181°.79 3°.1/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.94	+ 8 27.3	1.995	2.761	15.1	20.2
1 2	9 4.01	+ 8 22.7	1.905	2.762	12.1	20.0
1 12	8 56.75	+ 8 32.3	1.838	2.762	8.5	19.8
1 22	8 47.75	+ 8 55.1	1.797	2.762	4.9	19.6
2 1	8 37.92	+ 9 28.5	1.784	2.762	3.2	19.5
2 11	8 28.36	+10 8.5	1.801	2.760	6.0	19.7
2 21	8 20.10	+10 50.6	1.846	2.759	9.7	19.9
3 2	8 13.94	+11 30.8	1.917	2.757	13.1	20.1

274899 2009 SV_{87} 1 28.7 16°.19 4°.3/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.73	+ 5 25.4	1.701	2.477	16.9	20.8
1 2	9 0.34	+ 5 24.5	1.621	2.480	13.7	20.6
1 12	8 54.52	+ 5 43.2	1.561	2.483	10.0	20.4
1 22	8 46.88	+ 6 21.1	1.525	2.486	6.2	20.2
2 1	8 38.39	+ 7 14.9	1.516	2.490	4.3	20.1
2 11	8 30.22	+ 8 19.1	1.534	2.495	6.7	20.2
2 21	8 23.46	+ 9 27.0	1.579	2.499	10.4	20.4
3 2	8 18.95	+10 32.6	1.648	2.505	14.1	20.7

401378 2013 CL_{8} 1 28.7 275°.89 1°.0/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.95	+13 35.5	1.545	2.347	17.2	21.2
1 2	9 4.12	+13 53.1	1.453	2.335	13.5	20.9
1 12	8 57.31	+14 26.1	1.382	2.324	9.1	20.6
1 22	8 48.15	+15 11.4	1.336	2.312	4.0	20.3
2 1	8 37.72	+16 3.6	1.317	2.301	1.9	20.1
2 11	8 27.50	+16 56.0	1.326	2.289	7.0	20.4
2 21	8 18.89	+17 42.9	1.360	2.277	12.0	20.7
3 2	8 13.01	+18 20.4	1.417	2.265	16.4	20.9

53383 1999 JO_{91} 1 28.7 207°.97 1°.5/29.9 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.41	+10 23.7	2.931	3.692	10.9	19.7
1 2	8 59.12	+10 47.7	2.829	3.687	8.5	19.5
1 12	8 53.27	+11 21.9	2.753	3.682	5.8	19.3
1 22	8 46.28	+12 4.4	2.705	3.676	3.0	19.1
2 1	8 38.71	+12 52.6	2.688	3.669	1.6	19.0
2 11	8 31.28	+13 42.9	2.703	3.663	4.1	19.2
2 21	8 24.63	+14 32.2	2.747	3.656	7.0	19.3
3 2	8 19.33	+15 17.7	2.818	3.648	9.7	19.5

332348 2007 DQ_{47} 1 28.7 292°.76 1°.0/28.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.79	+19 23.7	1.840	2.645	14.7	21.3
1 2	9 3.59	+19 41.1	1.743	2.629	11.4	21.0
1 12	8 56.75	+20 6.3	1.668	2.613	7.5	20.7
1 22	8 47.86	+20 35.2	1.619	2.597	3.1	20.4
2 1	8 37.89	+21 2.8	1.598	2.581	2.1	20.3
2 11	8 28.12	+21 24.7	1.607	2.565	6.6	20.6
2 21	8 19.75	+21 37.8	1.641	2.549	11.0	20.8
3 2	8 13.77	+21 40.8	1.700	2.534	14.8	21.0

178940 2001 QG_{98} 1 28.7 167°.79 0°.2/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.83	+18 57.8	2.169	2.953	13.5	20.7
1 2	9 6.77	+18 53.5	2.083	2.957	10.4	20.5
1 12	8 58.42	+18 54.2	2.020	2.960	6.8	20.3
1 22	8 48.41	+18 56.7	1.986	2.963	2.7	20.0
2 1	8 37.68	+18 58.3	1.982	2.966	1.5	19.9
2 11	8 27.34	+18 56.2	2.009	2.968	5.5	20.2
2 21	8 18.39	+18 49.1	2.065	2.969	9.3	20.5
3 2	8 11.58	+18 36.8	2.147	2.970	12.6	20.7

25638 Ahissar 1 28.7 115°.32 1°.3/27.9 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.37	+18 36.1	1.620	2.421	16.6	18.8
1 2	9 7.83	+19 17.5	1.554	2.438	12.7	18.5
1 12	8 59.38	+20 8.6	1.511	2.455	8.2	18.3
1 22	8 48.85	+21 3.2	1.494	2.472	3.3	18.1
2 1	8 37.47	+21 54.4	1.505	2.487	2.4	18.0
2 11	8 26.70	+22 36.1	1.546	2.502	7.1	18.4
2 21	8 17.80	+23 5.2	1.613	2.517	11.4	18.6
3 2	8 11.67	+23 21.1	1.704	2.531	15.1	18.9

375381 2008 SN_{180} 1 28.7 43°.86 1°.7/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.21	+20 53.0	1.810	2.620	14.7	21.2
1 2	9 2.86	+21 22.7	1.744	2.633	11.2	21.0
1 12	8 56.03	+21 58.4	1.700	2.647	7.2	20.8
1 22	8 47.45	+22 35.4	1.683	2.661	3.1	20.6
2 1	8 38.17	+23 8.1	1.695	2.675	2.6	20.6
2 11	8 29.41	+23 32.2	1.734	2.690	6.5	20.8
2 21	8 22.21	+23 45.5	1.801	2.705	10.4	21.1
3 2	8 17.34	+23 47.8	1.890	2.721	13.7	21.3

64486 2001 VK_{50} 1 28.7 273°.73 2°.0/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.47	+21 57.3	1.504	2.317	17.0	19.1
1 2	9 7.72	+22 11.3	1.418	2.309	13.2	18.8
1 12	8 59.69	+22 31.2	1.354	2.301	8.7	18.6
1 22	8 49.12	+22 51.7	1.315	2.293	3.8	18.2
2 1	8 37.29	+23 6.5	1.303	2.284	3.0	18.2
2 11	8 25.87	+23 10.8	1.319	2.276	8.0	18.4
2 21	8 16.39	+23 2.9	1.360	2.267	12.8	18.7
3 2	8 9.97	+22 43.4	1.422	2.259	17.0	18.9

499000 2009 CF_{15} 1 28.7 23°.53 1°.8/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.98	+23 44.4	1.883	2.689	14.4	20.6
1 2	9 4.90	+23 40.9	1.809	2.696	11.0	20.4
1 12	8 57.31	+23 39.0	1.758	2.703	7.2	20.2
1 22	8 47.96	+23 35.0	1.734	2.711	3.2	20.0
2 1	8 37.93	+23 25.3	1.739	2.719	2.6	20.0
2 11	8 28.45	+23 7.6	1.772	2.728	6.4	20.2
2 21	8 20.59	+22 41.8	1.833	2.737	10.3	20.5
3 2	8 15.11	+22 8.7	1.918	2.747	13.6	20.7

411527 2011 BZ_{82} 1 28.7 31°.12 2°.3/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.07	+20 24.5	1.657	2.474	15.6	20.6
1 2	9 2.35	+21 23.3	1.586	2.479	11.9	20.4
1 12	8 55.93	+22 31.6	1.538	2.485	7.7	20.2
1 22	8 47.50	+23 42.5	1.515	2.492	3.5	19.9
2 1	8 38.14	+24 48.3	1.520	2.499	3.3	19.9
2 11	8 29.22	+25 42.2	1.553	2.506	7.4	20.2
2 21	8 21.92	+26 20.6	1.612	2.514	11.6	20.4
3 2	8 17.16	+26 42.6	1.694	2.522	15.1	20.7

295963 2008 YH_{20} 1 28.7 59°.22 0°.5/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.17	+16 2.3	1.361	2.173	18.6	20.9
1 2	9 6.46	+16 9.2	1.302	2.190	14.4	20.7
1 12	8 58.62	+16 28.4	1.263	2.208	9.4	20.4
1 22	8 48.56	+16 55.4	1.249	2.227	3.9	20.2
2 1	8 37.65	+17 24.8	1.261	2.245	1.8	20.1
2 11	8 27.52	+17 50.9	1.301	2.264	7.2	20.5
2 21	8 19.49	+18 10.2	1.365	2.282	12.0	20.8
3 2	8 14.44	+18 20.9	1.451	2.301	16.0	21.1

337620 2001 TP_{59} 1 28.7 158°.67 5°.0/24.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.26	+36 6.1	3.014	3.801	10.0	21.9
1 2	9 4.49	+36 59.5	2.943	3.807	8.0	21.8
1 12	8 56.78	+37 48.5	2.897	3.814	6.1	21.7
1 22	8 47.72	+38 27.8	2.880	3.820	5.1	21.6
2 1	8 38.06	+38 53.2	2.893	3.825	5.5	21.7
2 11	8 28.74	+39 2.6	2.935	3.830	7.1	21.8
2 21	8 20.55	+38 55.8	3.004	3.834	9.1	21.9
3 2	8 14.16	+38 34.7	3.097	3.838	11.0	22.1

421003 2013 PS_{45} 1 28.7 58°.38 3°.0/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.16	+ 8 50.0	1.880	2.657	15.5	21.6
1 2	9 2.00	+ 8 46.5	1.796	2.660	12.4	21.4
1 12	8 55.51	+ 8 57.9	1.734	2.662	8.7	21.2
1 22	8 47.29	+ 9 22.9	1.698	2.665	4.9	21.0
2 1	8 38.27	+ 9 58.7	1.689	2.667	3.1	20.9
2 11	8 29.56	+10 40.9	1.709	2.670	6.0	21.1
2 21	8 22.18	+11 24.7	1.756	2.673	9.8	21.3
3 2	8 16.94	+12 6.0	1.828	2.676	13.3	21.5

157827 1997 TV_{18} 1 28.7 146°.37 0°.4/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.05	+16 56.7	1.958	2.745	14.6	21.0
1 2	9 6.41	+17 29.5	1.881	2.757	11.2	20.8
1 12	8 58.31	+18 11.8	1.827	2.768	7.3	20.6
1 22	8 48.41	+18 59.0	1.801	2.779	2.9	20.3
2 1	8 37.73	+19 45.7	1.805	2.788	1.7	20.2
2 11	8 27.45	+20 27.0	1.839	2.797	6.0	20.5
2 21	8 18.67	+20 59.6	1.901	2.805	10.0	20.8
3 2	8 12.19	+21 21.9	1.988	2.812	13.4	21.0

463913 2014 UP_{132} 1 28.7 54°.51 2°.6/26.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.65	+21 34.5	2.062	2.868	13.3	20.4
1 2	9 1.61	+22 44.2	1.983	2.871	10.2	20.2
1 12	8 55.27	+24 1.5	1.928	2.873	6.6	20.0
1 22	8 47.21	+25 20.1	1.901	2.876	3.2	19.8
2 1	8 38.32	+26 33.1	1.903	2.879	3.4	19.8
2 11	8 29.70	+27 34.7	1.935	2.881	6.8	20.0
2 21	8 22.36	+28 21.2	1.994	2.884	10.3	20.3
3 2	8 17.13	+28 51.7	2.077	2.887	13.4	20.5

432878 2011 KT_{9} 1 28.7 244°.30 4°.7/25.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.41	+29 16.1	2.229	3.036	12.4	21.1
1 2	9 2.97	+30 28.4	2.149	3.033	9.7	20.9
1 12	8 56.16	+31 42.0	2.093	3.030	6.8	20.7
1 22	8 47.58	+32 50.0	2.065	3.026	4.8	20.6
2 1	8 38.13	+33 45.8	2.066	3.022	5.4	20.6
2 11	8 28.93	+34 24.6	2.096	3.019	7.9	20.8
2 21	8 21.03	+34 44.8	2.152	3.015	10.9	20.9
3 2	8 15.27	+34 47.2	2.231	3.011	13.5	21.1

59872 1999 RB_{112} 1 28.7 200°.37 2°.2/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.71	+ 8 41.8	2.378	3.140	13.1	20.1
1 2	9 1.24	+ 9 0.4	2.281	3.137	10.4	19.9
1 12	8 54.84	+ 9 32.4	2.208	3.133	7.2	19.7
1 22	8 46.99	+10 16.1	2.162	3.129	3.9	19.5
2 1	8 38.43	+11 8.2	2.146	3.125	2.3	19.4
2 11	8 30.04	+12 4.6	2.160	3.120	5.0	19.6
2 21	8 22.66	+13 1.0	2.203	3.115	8.4	19.8
3 2	8 16.98	+13 53.4	2.273	3.109	11.5	20.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
120424 2099 $T\text{-}_2$			1 28.7	42°.08	6°.2/26.0	18
	h m	° ′			°	m
12 23	9 13.79	+32 8.3	1.515	2.334	16.7	19.3
1 2	9 8.48	+32 50.0	1.463	2.351	13.0	19.1
1 12	8 59.90	+33 27.1	1.432	2.369	9.3	19.0
1 22	8 49.06	+33 51.2	1.427	2.388	6.5	18.9
2 1	8 37.48	+33 55.4	1.448	2.407	6.9	18.9
2 11	8 26.85	+33 37.3	1.495	2.427	9.8	19.1
2 21	8 18.54	+32 59.0	1.567	2.447	13.2	19.4
3 2	8 13.36	+32 5.1	1.660	2.467	16.3	19.6
84666 2002 VE_{82}			1 28.7	76°.42	1°.5/29.6	18
12 23	9 8.00	+11 59.3	1.711	2.502	16.3	19.5
1 2	9 3.51	+12 18.1	1.643	2.517	12.7	19.3
1 12	8 56.50	+12 51.2	1.596	2.533	8.5	19.1
1 22	8 47.68	+13 35.6	1.575	2.549	4.0	18.9
2 1	8 38.12	+14 26.1	1.582	2.565	1.9	18.8
2 11	8 29.05	+15 17.0	1.617	2.580	6.1	19.1
2 21	8 21.55	+16 3.6	1.680	2.596	10.2	19.4
3 2	8 16.42	+16 42.4	1.767	2.611	13.9	19.6
158283 2001 UP_{41}			1 28.7	107°.03	4°.5/26.3	18
12 23	9 13.68	+26 7.4	1.557	2.372	16.5	20.6
1 2	9 8.40	+27 9.6	1.494	2.385	12.7	20.4
1 12	8 59.94	+28 15.3	1.454	2.397	8.5	20.2
1 22	8 49.15	+29 15.6	1.439	2.409	5.0	20.0
2 1	8 37.38	+30 1.8	1.452	2.421	5.4	20.1
2 11	8 26.29	+30 28.5	1.492	2.433	9.0	20.3
2 21	8 17.27	+30 34.7	1.558	2.444	12.9	20.6
3 2	8 11.27	+30 22.6	1.645	2.455	16.3	20.8
173145 1995 TT_3			1 28.7	23°.31	2°.3/30.1	18
12 23	9 3.70	+10 36.5	1.957	2.742	14.7	20.6
1 2	8 59.98	+10 36.7	1.879	2.749	11.6	20.4
1 12	8 54.12	+10 49.9	1.823	2.756	7.9	20.2
1 22	8 46.70	+11 14.4	1.793	2.764	4.2	20.0
2 1	8 38.60	+11 47.1	1.792	2.772	2.4	19.8
2 11	8 30.85	+12 24.0	1.819	2.781	5.5	20.1
2 21	8 24.37	+13 0.8	1.873	2.790	9.2	20.3
3 2	8 19.87	+13 34.1	1.951	2.800	12.6	20.5
138084 2000 DY_{62}			1 28.7	103°.86	0°.2/28.6	18
12 23	9 9.52	+17 14.9	1.776	2.575	15.4	19.5
1 2	9 4.73	+17 29.5	1.699	2.581	11.9	19.3
1 12	8 57.34	+17 53.2	1.644	2.587	7.7	19.1
1 22	8 48.05	+18 22.1	1.616	2.593	3.1	18.8
2 1	8 37.93	+18 51.6	1.616	2.599	1.6	18.7
2 11	8 28.24	+19 17.1	1.644	2.605	6.3	19.0
2 21	8 20.13	+19 35.6	1.700	2.610	10.5	19.3
3 2	8 14.44	+19 45.6	1.780	2.616	14.2	19.5
171571 1999 US_{38}			1 28.7	136°.08	0°.9/29.1	18
12 23	9 10.98	+14 42.9	1.916	2.701	15.0	20.2
1 2	9 5.60	+14 50.0	1.838	2.711	11.6	20.0
1 12	8 57.78	+15 7.2	1.783	2.721	7.7	19.8
1 22	8 48.20	+15 31.5	1.755	2.730	3.4	19.5
2 1	8 37.86	+15 59.0	1.756	2.739	1.6	19.4
2 11	8 27.95	+16 25.7	1.786	2.747	5.8	19.7
2 21	8 19.53	+16 48.3	1.845	2.755	9.8	20.0
3 2	8 13.38	+17 4.9	1.928	2.762	13.3	20.2
401512 2013 EO_{51}			1 28.7	1°.15	3°.0/30.5	18
12 23	9 5.09	+ 7 59.7	1.434	2.229	18.6	20.5
1 2	9 1.93	+ 8 21.3	1.354	2.229	14.9	20.2
1 12	8 55.87	+ 9 5.5	1.294	2.228	10.4	20.0
1 22	8 47.57	+10 10.0	1.258	2.228	5.6	19.7
2 1	8 38.15	+11 29.1	1.248	2.229	3.2	19.5
2 11	8 29.06	+12 54.6	1.264	2.229	7.1	19.8
2 21	8 21.66	+14 17.7	1.307	2.230	11.9	20.0
3 2	8 16.97	+15 31.7	1.372	2.232	16.2	20.3
494941 2009 EE_{13}			1 28.7	343°.35	9°.9/ 5.9	18
12 23	9 2.37	−11 29.0	1.410	2.121	22.7	20.6
1 2	9 0.00	−10 55.2	1.318	2.114	19.9	20.3
1 12	8 54.75	− 9 36.4	1.241	2.108	16.5	20.1
1 22	8 47.17	− 7 27.8	1.184	2.102	13.0	19.8
2 1	8 38.32	− 4 31.0	1.152	2.097	10.3	19.7
2 11	8 29.66	− 0 57.4	1.146	2.093	10.3	19.7
2 21	8 22.57	+ 2 54.2	1.168	2.090	13.2	19.8
3 2	8 18.20	+ 6 43.6	1.216	2.087	17.1	20.0
381240 2007 TR_{43}			1 28.7	38°.95	0°.9/28.2	18
12 23	9 7.49	+20 8.5	1.965	2.767	14.0	20.4
1 2	9 2.87	+20 16.9	1.893	2.779	10.7	20.2
1 12	8 55.97	+20 30.6	1.845	2.790	6.9	20.0
1 22	8 47.45	+20 46.0	1.824	2.802	2.8	19.7
2 1	8 38.28	+20 59.2	1.832	2.814	1.9	19.7
2 11	8 29.60	+21 7.1	1.869	2.827	5.9	20.0
2 21	8 22.36	+21 7.8	1.933	2.840	9.6	20.2
3 2	8 17.28	+21 1.0	2.021	2.853	12.9	20.5

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
296071 2009 AS_{50}			1 28.7	211°.64	1°.6/29.6	18
	h m	° ′			°	m
12 23	9 8.52	+12 1.0	1.753	2.541	16.0	21.1
1 2	9 4.11	+12 16.1	1.664	2.538	12.6	20.9
1 12	8 57.07	+12 45.7	1.598	2.534	8.5	20.6
1 22	8 48.01	+13 27.3	1.557	2.531	4.1	20.3
2 1	8 37.95	+14 16.4	1.544	2.527	2.0	20.2
2 11	8 28.17	+15 7.2	1.560	2.523	6.3	20.5
2 21	8 19.84	+15 54.7	1.603	2.518	10.7	20.7
3 2	8 13.91	+16 35.0	1.670	2.514	14.6	20.9
236001 2005 GB_{23}			1 28.7	28°.08	2°.7/30.7	18
12 23	9 3.18	+ 7 36.9	2.005	2.779	14.8	20.1
1 2	8 59.60	+ 7 59.6	1.921	2.783	11.8	19.9
1 12	8 53.90	+ 8 38.9	1.860	2.787	8.2	19.6
1 22	8 46.65	+ 9 32.9	1.825	2.792	4.6	19.4
2 1	8 38.67	+10 37.5	1.818	2.797	2.8	19.3
2 11	8 30.96	+11 47.3	1.840	2.802	5.5	19.5
2 21	8 24.44	+12 56.6	1.890	2.807	9.2	19.7
3 2	8 19.85	+14 0.5	1.965	2.813	12.5	20.0
429053 2009 DP_{55}			1 28.7	38°.10	0°.3/28.5	18
12 23	9 4.86	+16 54.5	1.932	2.734	14.2	21.0
1 2	9 0.90	+17 22.5	1.863	2.747	10.9	20.8
1 12	8 54.72	+17 59.8	1.818	2.762	7.0	20.6
1 22	8 46.96	+18 42.2	1.799	2.776	2.8	20.4
2 1	8 38.54	+19 24.8	1.808	2.792	1.6	20.3
2 11	8 30.56	+20 3.1	1.847	2.807	5.7	20.6
2 21	8 23.95	+20 33.7	1.913	2.823	9.5	20.9
3 2	8 19.42	+20 55.0	2.003	2.839	12.8	21.1
258127 2001 RY_{20}			1 28.7	153°.51	1°.5/29.7	18
12 23	9 7.65	+11 35.6	2.074	2.851	14.2	21.3
1 2	9 2.95	+11 54.1	1.990	2.857	11.2	21.1
1 12	8 56.05	+12 25.1	1.928	2.862	7.5	20.9
1 22	8 47.53	+13 6.3	1.894	2.867	3.6	20.6
2 1	8 38.26	+13 53.7	1.889	2.871	1.8	20.5
2 11	8 29.29	+14 42.5	1.913	2.875	5.4	20.7
2 21	8 21.57	+15 28.5	1.966	2.878	9.2	21.0
3 2	8 15.86	+16 8.5	2.045	2.882	12.6	21.2
427166 2014 UH_{193}			1 28.7	164°.76	1°.8/27.5	18
12 23	9 10.51	+21 44.6	2.292	3.083	12.6	22.4
1 2	9 5.01	+22 22.2	2.210	3.089	9.7	22.2
1 12	8 57.32	+23 4.6	2.152	3.094	6.3	22.0
1 22	8 48.04	+23 47.2	2.123	3.099	2.8	21.8
2 1	8 38.03	+24 25.0	2.124	3.102	2.6	21.8
2 11	8 28.34	+24 54.2	2.156	3.106	5.9	22.0
2 21	8 19.92	+25 12.6	2.216	3.108	9.3	22.2
3 2	8 13.52	+25 20.0	2.301	3.110	12.3	22.4
116999 2004 HG_{53}			1 28.7	270°.05	1°.5/29.4	18
12 23	9 8.91	+13 57.5	1.908	2.695	14.9	20.1
1 2	9 4.31	+13 49.4	1.807	2.680	11.8	19.8
1 12	8 57.19	+13 51.3	1.728	2.665	8.0	19.6
1 22	8 48.09	+14 1.4	1.675	2.650	3.8	19.3
2 1	8 37.96	+14 16.9	1.651	2.634	1.9	19.1
2 11	8 28.00	+14 34.3	1.656	2.618	6.1	19.4
2 21	8 19.34	+14 50.2	1.688	2.602	10.4	19.6
3 2	8 12.94	+15 2.5	1.745	2.586	14.2	19.8
203867 2002 XZ			1 28.7	356°.55	6°.7/ 1.4	18
12 23	9 5.03	+ 0 19.6	2.069	2.806	15.6	19.7
1 2	9 0.95	− 0 34.4	1.981	2.804	13.1	19.5
1 12	8 54.77	− 1 11.8	1.913	2.803	10.4	19.3
1 22	8 47.03	− 1 30.6	1.870	2.802	7.9	19.2
2 1	8 38.53	− 1 30.0	1.853	2.802	6.7	19.1
2 11	8 30.26	− 1 12.0	1.864	2.802	7.7	19.1
2 21	8 23.14	− 0 40.4	1.901	2.802	10.1	19.3
3 2	8 17.92	− 0 0.1	1.963	2.802	12.9	19.5
213953 2003 XJ_{16}			1 28.7	115°.12	3°.3/30.7	18
12 23	9 8.75	+ 7 39.6	1.840	2.609	16.1	20.6
1 2	9 3.95	+ 7 41.0	1.763	2.621	12.8	20.4
1 12	8 56.76	+ 7 58.7	1.709	2.634	9.1	20.2
1 22	8 47.83	+ 8 31.4	1.680	2.646	5.2	20.0
2 1	8 38.15	+ 9 15.6	1.680	2.657	3.4	19.9
2 11	8 28.87	+10 6.4	1.708	2.668	6.1	20.1
2 21	8 21.04	+10 58.4	1.765	2.679	9.9	20.3
3 2	8 15.44	+11 47.3	1.845	2.690	13.4	20.6
278973 2008 UO_{159}			1 28.7	78°.62	3°.9/26.3	18 R
12 23	9 10.87	+28 27.9	2.116	2.919	13.1	20.3
1 2	9 5.38	+29 8.1	2.054	2.937	10.1	20.2
1 12	8 57.55	+29 47.6	2.017	2.956	6.9	20.0
1 22	8 48.10	+30 20.6	2.007	2.974	4.3	19.9
2 1	8 38.05	+30 41.9	2.027	2.993	4.5	19.9
2 11	8 28.56	+30 48.7	2.076	3.011	7.2	20.1
2 21	8 20.62	+30 40.7	2.151	3.029	10.2	20.3
3 2	8 14.94	+30 19.7	2.251	3.048	12.9	20.5

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
32077 2000 JW_{72}			1 28.7 245°.44		0°.1/28.7 18	
	h m	° ′			°	m
12 23	9 9.11	+15 3.9	1.644	2.443	16.4	19.5
1 2	9 4.90	+15 38.0	1.551	2.433	12.8	19.2
1 12	8 57.81	+16 26.7	1.480	2.423	8.5	19.0
1 22	8 48.43	+17 25.7	1.435	2.413	3.5	18.6
2 1	8 37.82	+18 28.6	1.418	2.402	1.7	18.5
2 11	8 27.40	+19 28.3	1.429	2.390	6.9	18.8
2 21	8 18.53	+20 19.2	1.467	2.379	11.8	19.0
3 2	8 12.28	+20 58.1	1.527	2.367	15.9	19.3
85144 1981 EU_{30}			1 28.7 130°.42		2°.3/27.6 18	
12 23	9 14.34	+22 43.9	1.737	2.539	15.6	19.4
1 2	9 8.52	+23 9.0	1.665	2.550	12.0	19.2
1 12	8 59.85	+23 38.7	1.616	2.560	7.8	18.9
1 22	8 49.13	+24 7.0	1.594	2.570	3.5	18.7
2 1	8 37.55	+24 28.4	1.600	2.579	3.1	18.7
2 11	8 26.56	+24 38.7	1.635	2.588	7.2	19.0
2 21	8 17.40	+24 36.7	1.697	2.596	11.3	19.2
3 2	8 10.94	+24 23.3	1.783	2.604	14.8	19.5
266880 2009 VK_{77}			1 28.7 177°.23		1°.4/27.7 18	
12 23	9 6.73	+19 6.6	2.018	2.819	13.8	20.5
1 2	9 2.46	+19 54.8	1.934	2.819	10.5	20.3
1 12	8 55.86	+20 51.8	1.875	2.819	6.8	20.0
1 22	8 47.52	+21 52.4	1.842	2.819	2.9	19.8
2 1	8 38.33	+22 50.9	1.839	2.820	2.3	19.7
2 11	8 29.42	+23 41.6	1.865	2.820	6.2	20.0
2 21	8 21.81	+24 21.1	1.919	2.819	10.1	20.2
3 2	8 16.34	+24 47.7	1.996	2.819	13.4	20.4
436156 2009 VH_{26}			1 28.7 153°.56		0°.2/28.9 17	
12 23	9 0.96	+16 1.3	4.062	4.834	7.9	22.6
1 2	8 56.82	+16 20.3	3.973	4.841	6.0	22.5
1 12	8 51.60	+16 43.7	3.911	4.848	3.9	22.4
1 22	8 45.62	+17 10.0	3.878	4.854	1.6	22.2
2 1	8 39.31	+17 37.2	3.877	4.860	0.8	22.1
2 11	8 33.14	+18 3.3	3.908	4.866	3.1	22.3
2 21	8 27.56	+18 26.8	3.969	4.872	5.3	22.5
3 2	8 22.95	+18 46.4	4.058	4.877	7.2	22.6
11530 d′Indy			1 28.7 214°.75		2°.9/30.6 18	
12 23	9 5.57	+ 8 26.6	2.039	2.811	14.6	18.2
1 2	9 1.43	+ 8 27.7	1.950	2.810	11.7	18.0
1 12	8 55.13	+ 8 43.1	1.884	2.810	8.2	17.8
1 22	8 47.20	+ 9 11.7	1.843	2.809	4.7	17.6
2 1	8 38.50	+ 9 50.8	1.831	2.809	3.0	17.5
2 11	8 30.05	+10 36.0	1.847	2.808	5.7	17.6
2 21	8 22.80	+11 22.9	1.892	2.807	9.3	17.8
3 2	8 17.52	+12 7.4	1.962	2.807	12.7	18.1
72556 2001 EY_{4}			1 28.7 108°.93		1°.1/27.9 18	
12 23	9 7.45	+19 28.1	2.184	2.980	13.0	19.8
1 2	9 2.72	+20 1.8	2.108	2.990	9.9	19.6
1 12	8 55.86	+20 42.0	2.056	2.999	6.4	19.4
1 22	8 47.46	+21 24.5	2.031	3.009	2.6	19.2
2 1	8 38.40	+22 4.7	2.037	3.018	2.0	19.2
2 11	8 29.70	+22 38.3	2.072	3.027	5.7	19.4
2 21	8 22.26	+23 2.8	2.135	3.037	9.2	19.7
3 2	8 16.81	+23 17.3	2.224	3.045	12.2	19.9
352860 Monflier			1 28.7 112°.44		1°.7/27.8 18	
12 23	9 14.42	+20 22.7	1.738	2.536	15.8	21.4
1 2	9 8.45	+20 57.6	1.674	2.556	12.0	21.2
1 12	8 59.72	+21 39.3	1.632	2.576	7.7	21.0
1 22	8 49.06	+22 22.1	1.618	2.595	3.3	20.7
2 1	8 37.64	+22 59.7	1.633	2.614	2.6	20.7
2 11	8 26.86	+23 27.4	1.677	2.632	6.8	21.0
2 21	8 17.90	+23 43.1	1.749	2.649	10.9	21.3
3 2	8 11.58	+23 46.8	1.844	2.665	14.4	21.6
468603 2007 VE_{164}			1 28.7 143°.93		7°.2/21.5 17	
12 23	9 12.55	+43 33.8	2.939	3.713	10.5	21.8
1 2	9 6.65	+44 58.2	2.881	3.723	8.9	21.7
1 12	8 58.44	+46 14.2	2.850	3.732	7.6	21.6
1 22	8 48.54	+47 15.2	2.846	3.742	7.2	21.6
2 1	8 37.87	+47 56.2	2.870	3.751	7.7	21.6
2 11	8 27.54	+48 14.8	2.921	3.759	9.0	21.7
2 21	8 18.55	+48 11.7	2.997	3.767	10.6	21.8
3 2	8 11.68	+47 49.8	3.094	3.775	12.1	22.0
22213 4322 $T\text{-}_{1}$			1 28.7 272°.49		1°.0/29.2 18	
12 23	9 7.69	+13 38.3	1.709	2.505	16.1	19.6
1 2	9 3.71	+13 56.1	1.612	2.491	12.6	19.4
1 12	8 56.99	+14 28.0	1.537	2.477	8.5	19.1
1 22	8 48.11	+15 11.1	1.487	2.463	3.8	18.8
2 1	8 38.04	+16 0.5	1.465	2.449	1.7	18.6
2 11	8 28.13	+16 50.4	1.471	2.434	6.6	18.9
2 21	8 19.65	+17 35.3	1.504	2.419	11.2	19.1
3 2	8 13.64	+18 11.9	1.560	2.405	15.4	19.3

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
113738 2002 TM_{157}			1 28.7 156°.78		1°.7/27.5 18	
	h m	° ′			°	m
12 23	9 8.88	+19 9.9	2.000	2.797	14.0	20.2
1 2	9 4.13	+20 9.1	1.920	2.802	10.7	20.0
1 12	8 56.96	+21 17.5	1.863	2.807	6.9	19.8
1 22	8 47.99	+22 29.4	1.835	2.812	3.0	19.6
2 1	8 38.16	+23 38.1	1.836	2.816	2.6	19.5
2 11	8 28.62	+24 37.5	1.867	2.819	6.5	19.8
2 21	8 20.46	+25 23.9	1.926	2.822	10.3	20.0
3 2	8 14.50	+25 56.0	2.009	2.825	13.5	20.3
79279 1995 SQ_{28}			1 28.7 79°.74		4°.4/26.2 18	
12 23	9 12.03	+31 38.2	2.302	3.099	12.4	19.1
1 2	9 6.19	+32 4.1	2.231	3.109	9.7	18.9
1 12	8 58.06	+32 26.7	2.185	3.118	6.8	18.8
1 22	8 48.35	+32 40.5	2.167	3.128	4.7	18.7
2 1	8 38.03	+32 41.4	2.177	3.137	4.9	18.7
2 11	8 28.25	+32 27.3	2.218	3.146	7.2	18.8
2 21	8 19.96	+31 58.7	2.285	3.156	10.0	19.0
3 2	8 13.87	+31 18.0	2.377	3.165	12.6	19.2
316856 2000 JU_{78}			1 28.7 231°.45		7°.4/ 2.5 18	
12 23	9 5.84	− 3 18.8	2.031	2.748	16.4	21.0
1 2	9 1.72	− 3 51.1	1.935	2.742	14.0	20.8
1 12	8 55.39	− 4 2.4	1.859	2.736	11.3	20.6
1 22	8 47.37	− 3 50.6	1.806	2.729	8.8	20.5
2 1	8 38.46	− 3 15.2	1.780	2.722	7.5	20.4
2 11	8 29.71	− 2 19.3	1.781	2.715	8.3	20.4
2 21	8 22.10	− 1 8.6	1.808	2.708	10.6	20.5
3 2	8 16.45	+ 0 10.3	1.860	2.700	13.5	20.7
183312 2002 VD_{10}			1 28.7 22°.51		1°.7/28.1 18	
12 23	9 7.99	+21 24.5	1.076	1.919	20.4	19.5
1 2	9 4.73	+21 25.0	1.028	1.934	15.6	19.2
1 12	8 57.83	+21 32.7	0.999	1.952	10.0	19.0
1 22	8 48.38	+21 41.8	0.992	1.971	4.2	18.7
2 1	8 38.05	+21 46.2	1.009	1.991	2.9	18.7
2 11	8 28.77	+21 41.6	1.050	2.014	8.4	19.1
2 21	8 22.01	+21 26.8	1.115	2.037	13.5	19.5
3 2	8 18.64	+21 2.5	1.199	2.062	17.8	19.8
382513 2001 SR_{89}			1 28.7 46°.36		0°.1/28.7 18	
12 23	9 6.74	+17 13.3	2.029	2.825	13.9	20.9
1 2	9 2.25	+17 20.6	1.956	2.837	10.6	20.7
1 12	8 55.57	+17 35.3	1.907	2.849	6.9	20.5
1 22	8 47.36	+17 54.5	1.884	2.861	2.8	20.3
2 1	8 38.53	+18 14.5	1.891	2.874	1.4	20.2
2 11	8 30.12	+18 31.9	1.927	2.887	5.5	20.5
2 21	8 23.05	+18 44.2	1.990	2.901	9.2	20.7
3 2	8 18.04	+18 50.1	2.078	2.914	12.4	21.0
45910 2000 YN_{57}			1 28.7 319°.51		0°.3/28.6 18	
12 23	9 4.80	+16 1.7	1.819	2.623	14.9	19.7
1 2	9 1.29	+16 36.4	1.729	2.614	11.6	19.5
1 12	8 55.29	+17 23.2	1.661	2.605	7.6	19.2
1 22	8 47.37	+18 18.1	1.618	2.596	3.1	18.9
2 1	8 38.47	+19 15.5	1.605	2.588	1.7	18.8
2 11	8 29.79	+20 9.3	1.619	2.580	6.3	19.1
2 21	8 22.46	+20 54.8	1.660	2.572	10.6	19.3
3 2	8 17.38	+21 29.1	1.725	2.565	14.4	19.5
334865 2003 UF_{142}			1 28.7 211°.65		4°.0/31.9 18	
12 23	9 4.33	+ 2 31.5	2.490	3.225	13.2	21.5
1 2	9 0.14	+ 2 41.7	2.389	3.220	10.9	21.3
1 12	8 54.15	+ 3 8.3	2.311	3.215	8.1	21.1
1 22	8 46.80	+ 3 50.8	2.259	3.210	5.4	20.9
2 1	8 38.77	+ 4 47.1	2.237	3.204	4.0	20.8
2 11	8 30.88	+ 5 53.3	2.244	3.197	5.5	20.9
2 21	8 23.90	+ 7 4.5	2.281	3.191	8.2	21.1
3 2	8 18.50	+ 8 15.9	2.344	3.184	11.1	21.3
129067 2004 VD_{31}			1 28.7 227°.61		1°.0/28.1 18	
12 23	9 10.79	+18 18.6	1.896	2.691	14.7	21.3
1 2	9 5.87	+18 55.0	1.800	2.681	11.4	21.0
1 12	8 58.29	+19 41.3	1.726	2.669	7.4	20.8
1 22	8 48.62	+20 32.8	1.680	2.658	3.1	20.5
2 1	8 37.85	+21 23.6	1.663	2.645	2.1	20.4
2 11	8 27.24	+22 7.9	1.676	2.632	6.6	20.6
2 21	8 18.03	+22 41.8	1.716	2.618	10.9	20.8
3 2	8 11.21	+23 3.5	1.780	2.604	14.7	21.1
138147 2000 ER_{61}			1 28.7 340°.33		2°.4/27.7 18	
12 23	9 6.70	+22 11.1	1.328	2.159	17.9	19.9
1 2	9 3.69	+22 29.9	1.247	2.147	13.8	19.6
1 12	8 57.33	+22 55.8	1.186	2.137	9.1	19.3
1 22	8 48.33	+23 23.0	1.149	2.127	4.1	19.0
2 1	8 38.00	+23 44.4	1.137	2.118	3.5	18.9
2 11	8 28.10	+23 54.3	1.151	2.110	8.5	19.2
2 21	8 20.20	+23 50.2	1.188	2.104	13.6	19.5
3 2	8 15.47	+23 32.4	1.246	2.098	18.0	19.7

74246 1998 SS_{62} 1 28.7 40°30 0°8/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.98	+17 53.7	1.480	2.295	17.2	19.1
1 2	9 4.04	+18 22.7	1.413	2.304	13.2	18.8
1 12	8 57.15	+19 2.8	1.367	2.314	8.5	18.6
1 22	8 48.12	+19 48.5	1.346	2.324	3.4	18.3
2 1	8 38.16	+20 33.3	1.352	2.335	2.1	18.2
2 11	8 28.76	+21 11.0	1.385	2.346	7.2	18.6
2 21	8 21.20	+21 37.8	1.443	2.357	11.8	18.9
3 2	8 16.41	+21 52.3	1.524	2.368	15.7	19.1

125449 2001 VB_{123} 1 28.7 13°87 9°6/23.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.45	+38 45.7	1.502	2.321	16.8	19.0
1 2	9 8.14	+40 5.5	1.445	2.324	13.8	18.8
1 12	9 0.14	+41 16.4	1.409	2.328	11.1	18.7
1 22	8 49.40	+42 7.0	1.397	2.333	9.7	18.6
2 1	8 37.53	+42 27.9	1.409	2.338	10.4	18.7
2 11	8 26.50	+42 15.6	1.446	2.344	12.7	18.8
2 21	8 17.93	+41 33.0	1.505	2.351	15.6	19.0
3 2	8 12.85	+40 26.5	1.583	2.358	18.4	19.2

11935 Olakarlsson 1 28.7 206°02 1°3/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.82	+20 12.4	2.479	3.269	11.8	19.6
1 2	9 2.91	+20 47.6	2.385	3.264	9.1	19.4
1 12	8 55.99	+21 28.7	2.316	3.258	5.9	19.2
1 22	8 47.57	+22 11.7	2.276	3.253	2.5	18.9
2 1	8 38.42	+22 52.2	2.266	3.246	2.0	18.9
2 11	8 29.46	+23 26.4	2.286	3.239	5.4	19.1
2 21	8 21.56	+23 51.8	2.336	3.232	8.7	19.3
3 2	8 15.45	+24 7.3	2.411	3.224	11.7	19.5

489116 2006 BA_{281} 1 28.7 28°57 2°0/29.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.68	+10 41.4	1.241	2.054	19.9	21.4
1 2	9 2.72	+11 6.0	1.174	2.061	15.7	21.2
1 12	8 56.55	+11 52.4	1.126	2.068	10.6	20.9
1 22	8 47.95	+12 56.9	1.101	2.076	5.1	20.6
2 1	8 38.24	+14 12.1	1.102	2.085	2.4	20.5
2 11	8 29.07	+15 28.8	1.128	2.094	7.5	20.8
2 21	8 21.90	+16 38.7	1.179	2.104	12.7	21.1
3 2	8 17.76	+17 36.2	1.251	2.115	17.2	21.4

416571 2004 EY_{41} 1 28.7 315°45 8°3/23.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.97	+41 0.0	2.078	2.874	13.6	20.2
1 2	9 7.81	+42 1.9	2.000	2.862	11.3	20.0
1 12	8 59.62	+42 55.5	1.944	2.849	9.4	19.8
1 22	8 49.16	+43 32.1	1.913	2.837	8.4	19.8
2 1	8 37.64	+43 44.6	1.910	2.825	9.0	19.8
2 11	8 26.60	+43 30.0	1.932	2.814	10.9	19.9
2 21	8 17.39	+42 49.6	1.978	2.802	13.3	20.0
3 2	8 11.02	+41 47.9	2.045	2.791	15.7	20.1

68004 2000 XD_{38} 1 28.7 96°16 8°6/24.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.85	+38 12.7	1.657	2.461	16.2	19.1
1 2	9 12.59	+39 21.3	1.601	2.472	13.1	19.0
1 12	9 2.78	+40 21.1	1.567	2.484	10.3	18.8
1 22	8 50.41	+41 1.5	1.558	2.496	8.7	18.7
2 1	8 37.09	+41 14.4	1.575	2.507	9.3	18.8
2 11	8 24.70	+40 57.0	1.619	2.518	11.5	19.0
2 21	8 14.78	+40 12.7	1.686	2.529	14.4	19.2
3 2	8 8.27	+39 7.7	1.774	2.540	17.0	19.4

362132 2009 DM_{47} 1 28.7 350°17 1°2/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.46	+19 37.9	1.206	2.040	19.1	20.6
1 2	9 3.68	+19 48.8	1.131	2.033	14.8	20.3
1 12	8 57.40	+20 9.9	1.076	2.027	9.7	20.0
1 22	8 48.38	+20 36.1	1.043	2.022	4.0	19.7
2 1	8 38.02	+21 0.5	1.036	2.019	2.6	19.6
2 11	8 28.17	+21 16.9	1.053	2.016	8.4	19.9
2 21	8 20.49	+21 22.0	1.093	2.015	13.8	20.2
3 2	8 16.12	+21 14.9	1.153	2.014	18.5	20.5

225374 1999 RX_{10} 1 28.7 101°38 0°2/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.10	+16 1.3	1.494	2.291	17.9	20.4
1 2	9 9.28	+16 21.9	1.433	2.314	13.8	20.2
1 12	9 0.42	+16 54.4	1.393	2.336	9.0	20.0
1 22	8 49.42	+17 33.7	1.380	2.357	3.7	19.7
2 1	8 37.61	+18 13.6	1.394	2.378	1.8	19.6
2 11	8 26.55	+18 48.5	1.437	2.398	6.9	20.0
2 21	8 17.54	+19 14.8	1.506	2.417	11.6	20.3
3 2	8 11.45	+19 31.1	1.598	2.436	15.4	20.6

30722 Biblioran 1 28.7 73°71 4°7/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 17.54	+30 3.5	1.862	2.661	14.8	18.0
1 2	9 10.57	+30 44.8	1.817	2.696	11.4	17.9
1 12	9 0.91	+31 22.9	1.796	2.731	7.8	17.7
1 22	8 49.50	+31 50.9	1.802	2.766	5.1	17.6
2 1	8 37.62	+32 3.5	1.837	2.800	5.3	17.7
2 11	8 26.66	+31 58.3	1.901	2.833	8.0	17.9
2 21	8 17.71	+31 36.8	1.992	2.866	11.1	18.2
3 2	8 11.48	+31 2.1	2.107	2.899	13.8	18.4

104391 2000 FX_{38} 1 28.7 195°89 0°1/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.02	+15 40.9	2.042	2.832	14.0	20.3
1 2	9 3.42	+16 11.8	1.953	2.830	10.9	20.1
1 12	8 56.50	+16 53.2	1.887	2.828	7.1	19.9
1 22	8 47.84	+17 41.5	1.849	2.826	2.9	19.6
2 1	8 38.33	+18 31.8	1.840	2.823	1.4	19.5
2 11	8 29.06	+19 19.0	1.861	2.820	5.7	19.8
2 21	8 21.06	+19 59.1	1.909	2.817	9.7	20.0
3 2	8 15.16	+20 29.9	1.983	2.814	13.1	20.2

413840 2006 SS_{115} 1 28.7 144°17 4°6/31.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.10	+ 4 3.0	2.323	3.055	14.2	21.9
1 2	9 5.26	+ 3 29.8	2.239	3.068	11.6	21.7
1 12	8 57.41	+ 3 10.2	2.178	3.080	8.7	21.5
1 22	8 48.13	+ 3 4.8	2.144	3.092	5.9	21.4
2 1	8 38.23	+ 3 12.7	2.140	3.103	4.6	21.3
2 11	8 28.65	+ 3 31.7	2.166	3.112	6.1	21.4
2 21	8 20.24	+ 3 58.2	2.220	3.122	8.9	21.6
3 2	8 13.69	+ 4 28.7	2.301	3.130	11.6	21.8

218709 2005 UN_{19} 1 28.7 54°85 1°4/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.49	+13 37.0	1.593	2.389	17.1	20.3
1 2	9 5.41	+13 37.3	1.540	2.417	13.2	20.1
1 12	8 57.72	+13 50.0	1.508	2.447	8.7	19.9
1 22	8 48.26	+14 12.0	1.501	2.476	4.0	19.7
2 1	8 38.21	+14 38.9	1.522	2.505	1.9	19.6
2 11	8 28.89	+15 6.1	1.572	2.535	6.2	20.0
2 21	8 21.38	+15 30.0	1.648	2.564	10.4	20.3
3 2	8 16.39	+15 48.1	1.747	2.593	13.9	20.6

110077 Pujiquanshan 1 28.7 276°08 1°3/29.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.67	+13 35.4	1.866	2.656	15.1	20.0
1 2	9 3.49	+13 41.0	1.764	2.639	11.9	19.8
1 12	8 56.76	+13 58.6	1.685	2.623	8.0	19.5
1 22	8 48.04	+14 25.8	1.632	2.606	3.7	19.2
2 1	8 38.23	+14 59.0	1.607	2.590	1.8	19.0
2 11	8 28.55	+15 33.7	1.610	2.573	6.1	19.3
2 21	8 20.18	+16 5.7	1.641	2.556	10.5	19.5
3 2	8 14.06	+16 31.9	1.696	2.539	14.4	19.7

293416 2007 ED_{100} 1 28.7 263°41 0°9/29.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.54	+13 40.0	2.039	2.826	14.1	21.7
1 2	9 2.36	+13 56.8	1.941	2.815	11.1	21.5
1 12	8 55.87	+14 25.1	1.865	2.803	7.4	21.2
1 22	8 47.62	+15 2.5	1.816	2.791	3.3	21.0
2 1	8 38.45	+15 45.0	1.796	2.779	1.5	20.8
2 11	8 29.44	+16 27.9	1.805	2.767	5.6	21.0
2 21	8 21.61	+17 7.0	1.843	2.755	9.7	21.3
3 2	8 15.83	+17 39.5	1.904	2.743	13.3	21.5

24789 1993 TZ_{29} 1 28.7 346°96 1°2/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.42	+19 31.1	2.070	2.871	13.5	19.0
1 2	9 2.18	+20 4.5	1.986	2.870	10.3	18.8
1 12	8 55.67	+20 45.3	1.926	2.870	6.7	18.6
1 22	8 47.50	+21 29.0	1.892	2.870	2.8	18.4
2 1	8 38.54	+22 10.7	1.888	2.869	2.1	18.3
2 11	8 29.86	+22 45.8	1.913	2.869	6.0	18.6
2 21	8 22.47	+23 11.4	1.965	2.869	9.7	18.8
3 2	8 17.13	+23 26.2	2.042	2.869	13.0	19.0

236970 2007 XB_{3} 1 28.7 66°86 4°1/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.08	+28 13.0	2.244	3.051	12.4	19.8
1 2	9 2.59	+29 13.9	2.174	3.059	9.5	19.6
1 12	8 55.88	+30 15.7	2.128	3.067	6.6	19.5
1 22	8 47.56	+31 12.2	2.110	3.075	4.3	19.3
2 1	8 38.52	+31 57.5	2.121	3.083	4.8	19.4
2 11	8 29.85	+32 27.8	2.161	3.091	7.3	19.6
2 21	8 22.49	+32 41.7	2.228	3.100	10.2	19.8
3 2	8 17.19	+32 40.1	2.318	3.108	12.8	19.9

101423 1998 VA_{19} 1 28.7 146°51 3°3/30.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.82	+ 7 14.0	2.151	2.907	14.4	20.2
1 2	9 3.74	+ 7 10.1	2.067	2.916	11.6	20.0
1 12	8 56.54	+ 7 20.4	2.006	2.925	8.3	19.8
1 22	8 47.82	+ 7 43.8	1.971	2.934	4.9	19.6
2 1	8 38.40	+ 8 17.9	1.966	2.941	3.3	19.5
2 11	8 29.29	+ 8 58.9	1.991	2.949	5.6	19.7
2 21	8 21.40	+ 9 42.4	2.044	2.955	9.0	19.9
3 2	8 15.45	+10 24.7	2.123	2.961	12.1	20.1

133931 2004 SE_{49} 1 28.7 118°87 0°6/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.84	+15 35.0	2.179	2.967	13.3	19.9
1 2	9 2.32	+16 41.4	2.101	2.978	10.2	19.7
1 12	8 55.68	+17 59.0	2.048	2.989	6.6	19.5
1 22	8 47.49	+19 23.0	2.023	3.000	2.6	19.3
2 1	8 38.56	+20 46.8	2.028	3.011	1.7	19.2
2 11	8 29.92	+22 4.4	2.064	3.021	5.6	19.5
2 21	8 22.47	+23 11.3	2.130	3.031	9.2	19.8
3 2	8 16.95	+24 4.9	2.220	3.040	12.3	20.0

36108 1999 RK_{120} 1 28.7 222°.65 1°.9/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.75	+10 56.7	1.926	2.703	15.2	19.4
1 2	9 4.16	+11 10.8	1.829	2.696	12.0	19.2
1 12	8 57.11	+11 39.3	1.755	2.687	8.2	18.9
1 22	8 48.16	+12 20.0	1.707	2.679	4.1	18.7
2 1	8 38.21	+13 9.0	1.688	2.669	2.2	18.5
2 11	8 28.44	+14 1.1	1.698	2.660	5.9	18.7
2 21	8 19.95	+14 51.5	1.736	2.649	10.1	19.0
3 2	8 13.65	+15 36.1	1.799	2.639	13.9	19.2

12826 1997 AO_{7} 1 28.7 221°.37 1°.3/29.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.99	+12 15.1	1.672	2.461	16.6	18.4
1 2	9 5.51	+12 38.7	1.580	2.455	13.1	18.1
1 12	8 58.20	+13 18.3	1.510	2.447	8.9	17.8
1 22	8 48.67	+14 10.8	1.465	2.439	4.1	17.5
2 1	8 37.95	+15 10.9	1.448	2.431	1.9	17.4
2 11	8 27.45	+16 12.0	1.460	2.422	6.6	17.6
2 21	8 18.47	+17 8.0	1.498	2.413	11.4	17.9
3 2	8 12.05	+17 54.9	1.561	2.403	15.5	18.1

111111 2001 VO_{84} 1 28.7 184°.92 6°.0/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.23	+34 41.9	2.175	2.970	13.1	20.2
1 2	9 9.07	+35 32.3	2.098	2.970	10.5	20.0
1 12	9 0.21	+36 18.2	2.046	2.970	7.8	19.9
1 22	8 49.37	+36 52.3	2.020	2.969	6.1	19.8
2 1	8 37.67	+37 8.6	2.024	2.968	6.6	19.8
2 11	8 26.45	+37 4.0	2.055	2.966	8.8	19.9
2 21	8 16.89	+36 39.2	2.114	2.964	11.5	20.1
3 2	8 9.88	+35 57.5	2.195	2.962	14.1	20.3

369334 2009 SW_{269} 1 28.7 90°.51 2°.7/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.88	+23 39.0	1.952	2.757	14.0	22.2
1 2	9 4.87	+24 19.7	1.883	2.769	10.7	22.0
1 12	8 57.41	+25 4.3	1.838	2.782	7.0	21.8
1 22	8 48.20	+25 47.0	1.821	2.795	3.5	21.6
2 1	8 38.27	+26 22.2	1.832	2.808	3.4	21.6
2 11	8 28.81	+26 45.7	1.872	2.820	6.8	21.8
2 21	8 20.90	+26 55.9	1.939	2.832	10.4	22.1
3 2	8 15.29	+26 53.3	2.030	2.845	13.5	22.3

84072 2002 PP_{142} 1 28.7 81°.76 4°.5/31.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.39	+ 5 38.7	1.870	2.621	16.5	18.5
1 2	9 7.18	+ 5 9.2	1.812	2.655	13.3	18.4
1 12	8 58.67	+ 4 55.8	1.777	2.689	9.6	18.2
1 22	8 48.64	+ 4 58.3	1.767	2.723	6.1	18.1
2 1	8 38.10	+ 5 14.7	1.786	2.755	4.6	18.1
2 11	8 28.20	+ 5 41.2	1.834	2.787	6.5	18.2
2 21	8 19.91	+ 6 13.6	1.911	2.819	9.7	18.5
3 2	8 13.88	+ 6 47.5	2.012	2.849	12.7	18.7

343082 2009 DT_{5} 1 28.7 109°.98 6°.2/ 2.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.09	− 2 57.5	2.566	3.270	13.6	20.9
1 2	8 59.83	− 3 30.0	2.479	3.277	11.6	20.8
1 12	8 53.88	− 3 45.9	2.414	3.285	9.3	20.6
1 22	8 46.72	− 3 44.0	2.373	3.292	7.3	20.5
2 1	8 38.99	− 3 24.4	2.361	3.299	6.2	20.4
2 11	8 31.48	− 2 49.5	2.376	3.305	6.8	20.5
2 21	8 24.90	− 2 3.0	2.420	3.312	8.6	20.6
3 2	8 19.85	− 1 9.5	2.488	3.319	10.8	20.8

425982 2011 HL_{75} 1 28.7 211°.64 6°.7/23.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.00	+35 25.4	2.248	3.049	12.5	20.8
1 2	9 5.21	+36 56.5	2.174	3.047	10.1	20.7
1 12	8 57.83	+38 24.7	2.125	3.044	7.9	20.5
1 22	8 48.46	+39 41.9	2.103	3.041	6.7	20.4
2 1	8 38.10	+40 40.5	2.110	3.039	7.5	20.5
2 11	8 28.01	+41 16.1	2.144	3.035	9.5	20.6
2 21	8 19.36	+41 28.0	2.204	3.032	12.0	20.7
3 2	8 13.07	+41 18.5	2.285	3.029	14.3	20.9

128965 2004 TU_{146} 1 28.7 259°.78 0°.9/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.13	+15 1.9	1.579	2.380	17.0	20.4
1 2	9 5.75	+15 5.5	1.491	2.373	13.3	20.1
1 12	8 58.41	+15 21.1	1.424	2.365	8.9	19.8
1 22	8 48.77	+15 45.9	1.382	2.358	3.9	19.5
2 1	8 37.95	+16 15.3	1.367	2.350	1.8	19.4
2 11	8 27.44	+16 44.1	1.380	2.343	6.9	19.7
2 21	8 18.59	+17 8.2	1.419	2.335	11.7	19.9
3 2	8 12.46	+17 25.0	1.481	2.327	16.0	20.2

28776 2000 HC_{41} 1 28.7 309°.76 5°.6/24.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.74	+26 20.0	1.595	2.420	15.7	17.7
1 2	9 3.55	+28 2.3	1.510	2.406	12.2	17.4
1 12	8 57.24	+29 53.2	1.448	2.392	8.5	17.2
1 22	8 48.39	+31 42.8	1.413	2.379	5.8	17.0
2 1	8 38.11	+33 19.2	1.404	2.366	6.7	17.0
2 11	8 27.98	+34 33.2	1.423	2.353	10.3	17.2
2 21	8 19.53	+35 20.3	1.466	2.341	14.3	17.4
3 2	8 13.98	+35 41.1	1.529	2.329	17.8	17.6

417015 2005 UW_{46} 1 28.7 107°.61 3°.6/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.37	+25 26.4	1.929	2.738	14.0	21.5
1 2	9 4.67	+26 23.0	1.856	2.744	10.8	21.3
1 12	8 57.41	+27 23.1	1.807	2.749	7.2	21.1
1 22	8 48.26	+28 20.0	1.784	2.755	4.1	20.9
2 1	8 38.25	+29 7.0	1.790	2.761	4.4	21.0
2 11	8 28.66	+29 39.3	1.825	2.767	7.6	21.2
2 21	8 20.60	+29 54.9	1.887	2.772	11.1	21.4
3 2	8 14.92	+29 54.7	1.971	2.777	14.2	21.6

142602 2002 TB_{118} 1 28.7 359°.53 1°.5/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.86	+15 55.0	1.145	1.970	20.5	19.3
1 2	9 6.36	+15 28.2	1.073	1.968	16.1	19.0
1 12	8 59.18	+15 13.3	1.020	1.967	10.8	18.7
1 22	8 49.16	+15 8.1	0.989	1.966	4.9	18.4
2 1	8 37.80	+15 8.9	0.983	1.967	2.4	18.2
2 11	8 27.06	+15 11.3	1.002	1.968	8.2	18.5
2 21	8 18.63	+15 11.7	1.043	1.970	13.8	18.9
3 2	8 13.68	+15 8.0	1.105	1.972	18.7	19.1

421532 2014 OO_{138} 1 28.7 216°.54 0°.7/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.57	+14 43.1	1.831	2.619	15.4	22.3
1 2	9 5.71	+14 59.2	1.738	2.613	12.1	22.0
1 12	8 58.20	+15 27.1	1.667	2.606	8.0	21.8
1 22	8 48.64	+16 3.6	1.623	2.599	3.5	21.5
2 1	8 38.04	+16 43.9	1.608	2.591	1.6	21.3
2 11	8 27.67	+17 23.1	1.622	2.583	6.2	21.6
2 21	8 18.74	+17 56.8	1.663	2.574	10.7	21.8
3 2	8 12.20	+18 22.5	1.728	2.565	14.5	22.0

209647 2005 CS_{2} 1 28.7 357°.58 1°.6/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.38	+21 5.1	1.297	2.125	18.5	20.4
1 2	9 5.70	+21 10.6	1.224	2.122	14.3	20.1
1 12	8 58.59	+21 23.2	1.170	2.120	9.3	19.8
1 22	8 48.88	+21 37.9	1.140	2.119	3.9	19.5
2 1	8 37.95	+21 48.4	1.136	2.118	2.8	19.4
2 11	8 27.61	+21 50.0	1.157	2.119	8.1	19.7
2 21	8 19.42	+21 40.7	1.203	2.120	13.3	20.0
3 2	8 14.44	+21 20.8	1.269	2.122	17.7	20.3

422621 2014 UE_{13} 1 28.7 135°.75 0°.7/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.97	+13 49.6	2.233	3.010	13.4	22.1
1 2	9 3.80	+14 16.7	2.154	3.023	10.3	21.9
1 12	8 56.57	+14 54.0	2.100	3.036	6.8	21.7
1 22	8 47.85	+15 38.5	2.073	3.048	3.0	21.5
2 1	8 38.48	+16 25.8	2.076	3.060	1.3	21.4
2 11	8 29.44	+17 11.6	2.110	3.071	5.1	21.7
2 21	8 21.62	+17 52.3	2.173	3.081	8.7	21.9
3 2	8 15.72	+18 25.7	2.262	3.091	11.8	22.1

335991 2007 TR_{307} 1 28.7 168°.60 0°.4/28.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.39	+17 55.5	2.849	3.629	10.7	22.3
1 2	9 1.49	+18 19.6	2.761	3.633	8.2	22.2
1 12	8 54.91	+18 49.3	2.697	3.637	5.3	22.0
1 22	8 47.14	+19 21.8	2.663	3.640	2.1	21.8
2 1	8 38.83	+19 54.0	2.660	3.643	1.2	21.7
2 11	8 30.73	+20 22.8	2.688	3.645	4.4	21.9
2 21	8 23.55	+20 46.1	2.746	3.646	7.4	22.1
3 2	8 17.87	+21 2.7	2.830	3.648	10.0	22.3

320793 2008 EZ_{148} 1 28.7 3°.41 1°.5/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.98	+17 55.2	1.530	2.347	16.6	20.6
1 2	9 2.62	+18 47.7	1.454	2.346	12.8	20.3
1 12	8 56.38	+19 53.2	1.399	2.346	8.3	20.1
1 22	8 47.94	+21 5.5	1.369	2.347	3.4	19.8
2 1	8 38.41	+22 16.5	1.366	2.348	2.6	19.7
2 11	8 29.25	+23 18.6	1.391	2.349	7.4	20.0
2 21	8 21.79	+24 6.5	1.441	2.351	12.1	20.3
3 2	8 17.00	+24 38.1	1.513	2.353	16.0	20.5

286522 2002 CZ_{67} 1 28.7 77°.25 0°.3/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.96	+14 53.9	1.476	2.283	17.6	20.6
1 2	9 4.82	+15 42.8	1.409	2.295	13.6	20.3
1 12	8 57.73	+16 47.2	1.363	2.308	8.8	20.1
1 22	8 48.44	+18 1.2	1.342	2.320	3.6	19.8
2 1	8 38.19	+19 16.8	1.349	2.332	1.9	19.7
2 11	8 28.46	+20 25.9	1.383	2.344	7.1	20.1
2 21	8 20.57	+21 22.7	1.443	2.357	11.8	20.4
3 2	8 15.45	+22 4.6	1.526	2.369	15.8	20.7

79287 1995 SQ_{58} 1 28.7 350°.54 1°.4/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.49	+21 11.2	2.094	2.897	13.2	19.6
1 2	9 2.21	+21 29.9	2.009	2.894	10.2	19.4
1 12	8 55.70	+21 53.6	1.948	2.892	6.6	19.2
1 22	8 47.54	+22 18.5	1.913	2.891	2.8	18.9
2 1	8 38.63	+22 40.1	1.908	2.889	2.2	18.9
2 11	8 30.04	+22 55.0	1.932	2.888	5.9	19.1
2 21	8 22.73	+23 1.2	1.983	2.887	9.6	19.3
3 2	8 17.48	+22 58.1	2.059	2.887	12.8	19.5

433462 2013 VE_3 1 28.7 29°.72 1°.3/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.22	+15 56.2	1.694	2.494	16.0	20.5
1 2	9 4.48	+15 27.3	1.627	2.508	12.4	20.3
1 12	8 57.19	+15 6.6	1.582	2.523	8.2	20.1
1 22	8 48.13	+14 52.3	1.563	2.538	3.7	19.8
2 1	8 38.39	+14 42.1	1.571	2.554	1.9	19.7
2 11	8 29.26	+14 33.7	1.608	2.571	6.1	20.1
2 21	8 21.78	+14 25.2	1.672	2.589	10.2	20.3
3 2	8 16.73	+14 15.0	1.759	2.607	13.8	20.6

48482 Oruki 1 28.7 342°.72 0°.8/28.2 18

12 23	9 3.86	+17 48.4	2.052	2.854	13.5	18.6
1 2	9 0.29	+18 26.7	1.964	2.850	10.4	18.4
1 12	8 54.52	+19 14.3	1.900	2.845	6.7	18.2
1 22	8 47.09	+20 7.1	1.863	2.841	2.7	17.9
2 1	8 38.85	+20 59.9	1.855	2.837	1.8	17.8
2 11	8 30.85	+21 47.5	1.876	2.834	5.8	18.1
2 21	8 24.06	+22 26.3	1.924	2.831	9.7	18.3
3 2	8 19.25	+22 54.1	1.996	2.829	13.0	18.5

423413 2005 MS_{54} 1 28.7 128°.54 5°.8/23.5 17

12 23	9 13.19	+31 35.6	2.301	3.096	12.5	21.3
1 2	9 7.46	+33 34.0	2.239	3.113	9.8	21.2
1 12	8 59.20	+35 31.9	2.204	3.130	7.3	21.0
1 22	8 49.02	+37 20.1	2.199	3.145	5.9	21.0
2 1	8 37.91	+38 50.4	2.224	3.160	6.6	21.0
2 11	8 27.08	+39 57.6	2.279	3.175	8.8	21.2
2 21	8 17.66	+40 40.3	2.361	3.188	11.3	21.4
3 2	8 10.55	+41 0.6	2.465	3.202	13.6	21.6

347129 2010 JZ_{175} 1 28.7 228°.15 5°.1/ 1.9 17

12 23	9 3.67	− 1 14.9	2.846	3.554	12.3	21.9
1 2	8 59.46	− 1 31.7	2.740	3.545	10.4	21.7
1 12	8 53.66	− 1 33.9	2.655	3.535	8.2	21.5
1 22	8 46.67	− 1 20.5	2.597	3.525	6.2	21.4
2 1	8 39.08	− 0 52.0	2.567	3.515	5.1	21.3
2 11	8 31.59	− 0 10.7	2.567	3.504	5.9	21.3
2 21	8 24.86	+ 0 40.0	2.595	3.493	7.9	21.4
3 2	8 19.50	+ 1 36.0	2.650	3.481	10.2	21.6

243129 2007 RS_{267} 1 28.7 47°.57 3°.5/31.3 18

12 23	9 4.26	+ 5 38.5	1.924	2.691	15.6	20.2
1 2	9 0.40	+ 5 52.8	1.858	2.712	12.4	20.1
1 12	8 54.44	+ 6 24.9	1.813	2.734	8.9	19.9
1 22	8 47.00	+ 7 12.9	1.793	2.755	5.3	19.7
2 1	8 38.96	+ 8 13.1	1.801	2.777	3.5	19.6
2 11	8 31.33	+ 9 19.9	1.839	2.799	5.7	19.8
2 21	8 25.01	+10 27.5	1.904	2.821	9.1	20.1
3 2	8 20.66	+11 30.9	1.994	2.844	12.3	20.3

163429 2002 RJ_{65} 1 28.7 61°.10 8°.0/ 4.5 18

12 23	9 5.47	− 7 40.7	2.128	2.816	16.5	19.6
1 2	9 1.06	− 8 9.4	2.066	2.845	14.2	19.5
1 12	8 54.73	− 8 14.6	2.024	2.875	11.7	19.3
1 22	8 47.08	− 7 54.9	2.004	2.904	9.5	19.3
2 1	8 38.93	− 7 11.1	2.011	2.934	8.1	19.2
2 11	8 31.20	− 6 7.2	2.044	2.963	8.4	19.3
2 21	8 24.69	− 4 49.4	2.104	2.992	9.9	19.4
3 2	8 20.01	− 3 24.5	2.189	3.021	12.0	19.6

332983 2011 FZ_{45} 1 28.7 321°.82 0°.3/28.6 18

12 23	9 6.00	+16 44.3	2.064	2.859	13.7	20.8
1 2	9 1.86	+17 12.5	1.977	2.858	10.6	20.6
1 12	8 55.51	+17 50.1	1.914	2.857	6.9	20.4
1 22	8 47.50	+18 33.3	1.878	2.855	2.8	20.1
2 1	8 38.69	+19 17.7	1.871	2.854	1.5	20.0
2 11	8 30.15	+19 58.4	1.894	2.853	5.6	20.3
2 21	8 22.85	+20 31.9	1.944	2.852	9.5	20.5
3 2	8 17.57	+20 56.3	2.018	2.852	12.8	20.8

445878 2012 UH_{56} 1 28.7 130°.24 1°.9/29.7 15

12 23	9 13.61	+12 9.6	1.638	2.421	17.2	22.6
1 2	9 8.03	+12 14.1	1.565	2.435	13.5	22.4
1 12	8 59.64	+12 32.7	1.514	2.449	9.1	22.2
1 22	8 49.20	+13 2.5	1.488	2.462	4.4	21.9
2 1	8 37.89	+13 39.2	1.491	2.474	2.2	21.8
2 11	8 27.10	+14 17.4	1.523	2.485	6.5	22.1
2 21	8 18.08	+14 52.6	1.582	2.496	10.9	22.4
3 2	8 11.71	+15 21.8	1.665	2.506	14.8	22.6

55513 2001 UL_{182} 1 28.7 264°.18 0°.7/28.3 18

12 23	9 7.34	+17 13.5	1.858	2.658	14.8	19.8
1 2	9 3.24	+17 49.9	1.767	2.650	11.4	19.6
1 12	8 56.61	+18 37.2	1.699	2.643	7.5	19.3
1 22	8 48.02	+19 31.0	1.657	2.635	3.0	19.0
2 1	8 38.42	+20 25.6	1.644	2.627	1.9	18.9
2 11	8 29.05	+21 14.9	1.660	2.619	6.4	19.2
2 21	8 21.05	+21 54.8	1.703	2.611	10.6	19.4
3 2	8 15.34	+22 23.1	1.770	2.603	14.4	19.6

118215 1996 BN_1 1 28.7 198°.63 1°.5/27.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.40	+20 16.8	2.141	2.939	13.2	20.3
1 2	9 2.90	+20 53.8	2.055	2.938	10.1	20.1
1 12	8 56.17	+21 37.6	1.993	2.937	6.5	19.8
1 22	8 47.76	+22 23.6	1.958	2.936	2.8	19.6
2 1	8 38.57	+23 6.6	1.954	2.934	2.3	19.6
2 11	8 29.64	+23 42.3	1.979	2.933	6.0	19.8
2 21	8 21.96	+24 7.8	2.031	2.931	9.6	20.0
3 2	8 16.32	+24 22.0	2.108	2.929	12.8	20.2

83162 2001 QU_{275} 1 28.7 122°.37 4°.8/25.4 18

12 23	9 10.68	+32 44.8	2.466	3.262	11.7	19.8
1 2	9 5.18	+33 30.4	2.395	3.271	9.2	19.7
1 12	8 57.49	+34 12.8	2.350	3.279	6.7	19.5
1 22	8 48.25	+34 46.4	2.332	3.286	4.9	19.4
2 1	8 38.36	+35 6.3	2.343	3.294	5.3	19.5
2 11	8 28.90	+35 10.0	2.384	3.301	7.4	19.6
2 21	8 20.80	+34 57.5	2.451	3.309	9.9	19.8
3 2	8 14.76	+34 30.8	2.543	3.316	12.3	20.0

241170 2007 RX_{150} 1 28.7 154°.33 1°.2/27.9 18

12 23	9 10.77	+18 9.9	1.922	2.716	14.6	21.1
1 2	9 5.67	+19 1.2	1.843	2.723	11.2	20.9
1 12	8 58.05	+20 2.3	1.787	2.730	7.2	20.7
1 22	8 48.56	+21 7.8	1.759	2.737	3.0	20.4
2 1	8 38.19	+22 11.1	1.761	2.742	2.2	20.4
2 11	8 28.16	+23 6.2	1.792	2.747	6.4	20.7
2 21	8 19.60	+23 49.4	1.852	2.752	10.4	20.9
3 2	8 13.35	+24 19.2	1.935	2.756	13.8	21.1

163397 2002 QU_{49} 1 28.7 69°.58 2°.1/27.4 18

12 23	9 7.60	+22 38.0	2.110	2.913	13.2	20.4
1 2	9 3.02	+23 12.1	2.034	2.920	10.1	20.2
1 12	8 56.20	+23 50.5	1.982	2.927	6.5	20.0
1 22	8 47.75	+24 28.5	1.958	2.933	3.1	19.8
2 1	8 38.60	+25 1.1	1.962	2.940	2.9	19.8
2 11	8 29.83	+25 24.4	1.996	2.947	6.2	20.0
2 21	8 22.40	+25 36.5	2.058	2.954	9.7	20.3
3 2	8 17.05	+25 37.2	2.143	2.961	12.7	20.5

216005 2005 TU_{130} 1 28.7 93°.64 1°.0/29.6 17

12 23	9 3.66	+12 58.7	2.696	3.471	11.4	20.9
1 2	8 59.45	+13 15.2	2.614	3.480	8.8	20.7
1 12	8 53.62	+13 40.5	2.555	3.490	5.9	20.5
1 22	8 46.64	+14 12.3	2.525	3.499	2.7	20.3
2 1	8 39.15	+14 47.8	2.525	3.508	1.3	20.2
2 11	8 31.90	+15 23.8	2.556	3.517	4.3	20.4
2 21	8 25.58	+15 57.5	2.616	3.527	7.3	20.7
3 2	8 20.73	+16 26.7	2.702	3.536	10.0	20.8

243362 2008 WP_{45} 1 28.7 49°.58 2°.1/27.3 18

12 23	9 6.90	+22 13.9	2.056	2.861	13.4	20.1
1 2	9 2.56	+22 52.6	1.980	2.867	10.2	19.9
1 12	8 55.94	+23 36.3	1.927	2.872	6.6	19.7
1 22	8 47.67	+24 20.2	1.902	2.878	3.1	19.5
2 1	8 38.65	+24 58.9	1.906	2.884	2.9	19.5
2 11	8 30.00	+25 28.1	1.939	2.890	6.4	19.7
2 21	8 22.69	+25 45.6	1.999	2.896	9.9	20.0
3 2	8 17.49	+25 51.1	2.082	2.902	13.0	20.2

359993 2012 VH_{93} 1 28.7 0°.84 2°.1/30.4 17

12 23	9 3.46	+ 9 41.0	2.560	3.326	12.1	21.4
1 2	8 59.43	+ 9 45.4	2.468	3.326	9.6	21.2
1 12	8 53.69	+10 0.6	2.399	3.326	6.7	21.0
1 22	8 46.70	+10 25.4	2.358	3.326	3.6	20.8
2 1	8 39.12	+10 57.4	2.347	3.326	2.2	20.7
2 11	8 31.74	+11 33.4	2.366	3.326	4.6	20.9
2 21	8 25.28	+12 10.2	2.413	3.326	7.7	21.1
3 2	8 20.36	+12 44.9	2.487	3.326	10.5	21.3

505677 2014 UV_{216} 1 28.7 157°.81 10°.6/18.9 18

12 23	9 18.59	+46 22.2	2.129	2.906	13.9	21.1
1 2	9 12.74	+48 39.7	2.078	2.912	12.1	20.9
1 12	9 3.28	+50 45.8	2.051	2.917	10.9	20.9
1 22	8 50.91	+52 28.9	2.050	2.922	10.7	20.9
2 1	8 37.01	+53 39.5	2.075	2.926	11.5	20.9
2 11	8 23.46	+54 14.0	2.124	2.930	13.1	21.0
2 21	8 12.01	+54 14.4	2.195	2.934	14.9	21.2
3 2	8 3.93	+53 46.5	2.283	2.937	16.5	21.3

366756 2004 RG_{31} 1 28.7 124°.05 1°.6/27.6 18

12 23	9 10.18	+21 30.7	2.466	3.253	12.0	22.3
1 2	9 4.55	+22 5.1	2.394	3.271	9.1	22.2
1 12	8 56.97	+22 43.5	2.348	3.289	5.9	22.0
1 22	8 48.02	+23 21.7	2.330	3.306	2.6	21.8
2 1	8 38.51	+23 55.6	2.344	3.323	2.2	21.8
2 11	8 29.39	+24 21.7	2.388	3.339	5.4	22.0
2 21	8 21.48	+24 38.4	2.462	3.354	8.5	22.3
3 2	8 15.42	+24 45.3	2.561	3.369	11.2	22.5

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
417168 2005 WS_{57}			1 28.7	17°.18	5°.6/31.2	18
	h m	° ′			°	m
12 23	9 7.66	+ 5 55.9	1.652	2.425	17.5	20.4
1 2	9 3.49	+ 5 2.7	1.573	2.428	14.3	20.2
1 12	8 56.73	+ 4 25.3	1.515	2.431	10.6	20.0
1 22	8 48.05	+ 4 5.2	1.480	2.436	7.1	19.8
2 1	8 38.48	+ 4 2.4	1.472	2.440	5.6	19.7
2 11	8 29.29	+ 4 14.3	1.491	2.445	7.6	19.9
2 21	8 21.64	+ 4 36.7	1.536	2.451	11.1	20.1
3 2	8 16.38	+ 5 4.6	1.604	2.457	14.6	20.3
43595 2001 QT_{101}			1 28.7	153°.22	6°.1/24.9	18 R
12 23	9 15.64	+35 17.4	2.223	3.016	12.9	18.3
1 2	9 9.31	+36 13.2	2.154	3.023	10.3	18.1
1 12	9 0.34	+37 4.0	2.108	3.030	7.8	18.0
1 22	8 49.47	+37 42.5	2.091	3.036	6.2	17.9
2 1	8 37.81	+38 2.7	2.102	3.042	6.7	17.9
2 11	8 26.67	+38 1.7	2.142	3.048	8.8	18.1
2 21	8 17.22	+37 40.5	2.208	3.052	11.4	18.2
3 2	8 10.26	+37 2.2	2.297	3.057	13.8	18.4
363211 2001 UF_{218}			1 28.7	156°.71	4°.3/31.9	18
12 23	9 8.25	+ 2 49.7	2.594	3.319	13.0	22.2
1 2	9 2.97	+ 2 34.1	2.505	3.329	10.7	22.1
1 12	8 55.92	+ 2 32.3	2.439	3.337	8.0	21.9
1 22	8 47.60	+ 2 44.4	2.399	3.345	5.5	21.8
2 1	8 38.70	+ 3 9.2	2.390	3.352	4.3	21.7
2 11	8 30.04	+ 3 43.9	2.411	3.358	5.6	21.8
2 21	8 22.36	+ 4 25.1	2.462	3.364	8.0	22.0
3 2	8 16.28	+ 5 8.9	2.539	3.369	10.6	22.1
287669 2003 OM_{12}			1 28.7	195°.94	3°.8/31.5	18
12 23	9 8.58	+ 4 3.5	2.227	2.968	14.5	21.8
1 2	9 3.68	+ 4 17.7	2.128	2.965	11.8	21.6
1 12	8 56.64	+ 4 49.4	2.051	2.961	8.6	21.4
1 22	8 47.98	+ 5 37.8	2.000	2.957	5.4	21.2
2 1	8 38.50	+ 6 40.0	1.979	2.951	3.8	21.1
2 11	8 29.16	+ 7 51.3	1.989	2.945	5.8	21.2
2 21	8 20.90	+ 9 6.2	2.028	2.938	9.1	21.4
3 2	8 14.50	+10 19.2	2.093	2.930	12.3	21.6
400538 2008 UQ_{120}			1 28.7	169°.52	1°.2/29.3	18
12 23	9 13.04	+14 27.2	1.781	2.566	15.9	21.7
1 2	9 7.54	+14 23.7	1.697	2.569	12.5	21.4
1 12	8 59.33	+14 30.7	1.635	2.572	8.3	21.2
1 22	8 49.12	+14 45.7	1.600	2.575	3.8	20.9
2 1	8 37.98	+15 5.0	1.593	2.577	1.8	20.8
2 11	8 27.22	+15 24.6	1.616	2.578	6.2	21.1
2 21	8 18.06	+15 41.2	1.667	2.579	10.6	21.3
3 2	8 11.40	+15 52.9	1.741	2.579	14.4	21.6
206170 2002 TP_{252}			1 28.7	102°.76	0°.6/28.3	18
12 23	9 6.21	+17 47.4	2.309	3.100	12.5	20.3
1 2	9 1.72	+18 22.9	2.232	3.111	9.6	20.1
1 12	8 55.25	+19 6.0	2.178	3.121	6.2	19.9
1 22	8 47.36	+19 52.7	2.153	3.131	2.5	19.7
2 1	8 38.84	+20 38.7	2.158	3.141	1.6	19.7
2 11	8 30.64	+21 19.7	2.193	3.150	5.2	19.9
2 21	8 23.58	+21 52.9	2.256	3.160	8.6	20.2
3 2	8 18.34	+22 16.7	2.345	3.169	11.6	20.4
212766 2007 TK_{66}			1 28.7	76°.35	0°.5/28.4	18
12 23	9 7.58	+18 41.4	2.227	3.020	12.9	20.9
1 2	9 2.77	+18 55.7	2.153	3.033	9.9	20.7
1 12	8 55.91	+19 16.0	2.104	3.046	6.4	20.5
1 22	8 47.62	+19 38.9	2.082	3.059	2.6	20.3
2 1	8 38.74	+20 0.9	2.089	3.072	1.5	20.2
2 11	8 30.26	+20 18.7	2.127	3.085	5.2	20.5
2 21	8 23.03	+20 30.2	2.193	3.099	8.7	20.8
3 2	8 17.71	+20 34.5	2.283	3.112	11.7	21.0
319746 2006 UO_{143}			1 28.7	133°.27	3°.7/30.9	18
12 23	9 8.09	+ 6 59.3	1.945	2.709	15.5	21.1
1 2	9 3.46	+ 6 48.5	1.862	2.716	12.5	20.9
1 12	8 56.54	+ 6 53.1	1.801	2.722	9.0	20.7
1 22	8 47.95	+ 7 12.4	1.765	2.727	5.4	20.5
2 1	8 38.57	+ 7 44.1	1.758	2.733	3.7	20.4
2 11	8 29.52	+ 8 24.2	1.780	2.738	6.1	20.5
2 21	8 21.78	+ 9 8.1	1.829	2.743	9.7	20.7
3 2	8 16.14	+ 9 51.2	1.903	2.748	13.0	21.0
175254 2005 JO_{51}			1 28.7	175°.88	1°.8/27.3	17
12 23	9 6.21	+22 10.4	2.706	3.498	10.9	21.2
1 2	9 1.54	+22 50.1	2.620	3.500	8.3	21.0
1 12	8 55.07	+23 33.9	2.559	3.501	5.4	20.8
1 22	8 47.29	+24 17.9	2.526	3.502	2.5	20.6
2 1	8 38.89	+24 57.9	2.525	3.502	2.4	20.6
2 11	8 30.72	+25 30.5	2.554	3.502	5.2	20.8
2 21	8 23.52	+25 53.6	2.612	3.502	8.1	21.0
3 2	8 17.94	+26 6.6	2.695	3.502	10.7	21.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
79256 1995 BO_{10}			1 28.8	20°.24	2°.4/27.9	18
	h m	° ′			°	m
12 23	9 14.46	+24 39.2	1.694	2.500	15.8	19.0
1 2	9 8.83	+24 36.6	1.615	2.501	12.2	18.8
1 12	9 0.24	+24 35.1	1.558	2.502	8.0	18.5
1 22	8 49.50	+24 29.8	1.528	2.504	3.7	18.3
2 1	8 37.85	+24 16.6	1.526	2.505	3.1	18.2
2 11	8 26.78	+23 52.8	1.552	2.507	7.3	18.5
2 21	8 17.59	+23 18.8	1.606	2.509	11.5	18.7
3 2	8 11.19	+22 36.4	1.682	2.511	15.2	19.0
371259 2006 BQ_{227}			1 28.8	70°.14	0°.9/28.2	18
12 23	9 7.71	+18 59.6	1.998	2.797	13.9	21.4
1 2	9 3.21	+19 22.7	1.918	2.801	10.7	21.2
1 12	8 56.40	+19 53.1	1.861	2.805	6.9	21.0
1 22	8 47.89	+20 26.6	1.831	2.809	2.8	20.8
2 1	8 38.61	+20 58.7	1.831	2.813	1.8	20.7
2 11	8 29.69	+21 25.1	1.859	2.818	5.9	21.0
2 21	8 22.14	+21 43.3	1.915	2.822	9.8	21.2
3 2	8 16.72	+21 52.1	1.996	2.826	13.1	21.4
273364 2006 UU_{210}			1 28.8	188°.55	0°.6/29.1	18
12 23	9 14.91	+15 7.5	1.905	2.684	15.3	22.1
1 2	9 8.91	+15 20.3	1.813	2.683	11.9	21.9
1 12	9 0.24	+15 43.6	1.745	2.682	7.9	21.6
1 22	8 49.52	+16 14.0	1.704	2.680	3.4	21.3
2 1	8 37.80	+16 47.2	1.693	2.676	1.5	21.2
2 11	8 26.37	+17 18.3	1.712	2.671	6.1	21.5
2 21	8 16.44	+17 44.1	1.759	2.666	10.5	21.7
3 2	8 8.93	+18 2.4	1.831	2.659	14.2	21.9
490678 2010 JJ_{176}			1 28.8	229°.87	5°.7/25.0	17
12 23	9 15.48	+31 41.9	2.107	2.903	13.4	22.6
1 2	9 9.62	+32 49.2	2.013	2.888	10.6	22.4
1 12	9 0.88	+33 56.4	1.943	2.873	7.8	22.2
1 22	8 49.86	+34 55.5	1.902	2.857	5.8	22.0
2 1	8 37.62	+35 38.6	1.889	2.840	6.4	22.0
2 11	8 25.56	+36 0.6	1.905	2.822	9.0	22.2
2 21	8 15.04	+36 0.6	1.948	2.803	12.2	22.3
3 2	8 7.09	+35 40.7	2.014	2.784	15.1	22.5
143023 2002 VV_{110}			1 28.8	41°.65	5°.8/31.0	18
12 23	9 12.40	+ 7 36.8	1.293	2.082	20.6	19.1
1 2	9 7.34	+ 6 29.5	1.243	2.109	16.5	18.9
1 12	8 59.22	+ 5 41.0	1.212	2.136	12.0	18.7
1 22	8 49.02	+ 5 12.7	1.204	2.165	7.7	18.5
2 1	8 38.14	+ 5 3.8	1.222	2.193	5.8	18.5
2 11	8 28.16	+ 5 10.7	1.266	2.223	8.3	18.7
2 21	8 20.34	+ 5 28.2	1.335	2.253	12.2	19.0
3 2	8 15.47	+ 5 50.7	1.425	2.283	15.8	19.3
289596 2005 GM_{5}			1 28.8	22°.13	4°.0/31.6	18
12 23	9 3.51	+ 4 40.7	2.079	2.838	14.8	20.6
1 2	8 59.86	+ 4 42.4	1.993	2.841	12.0	20.4
1 12	8 54.17	+ 5 1.1	1.928	2.843	8.8	20.2
1 22	8 46.97	+ 5 36.2	1.888	2.846	5.6	20.0
2 1	8 39.06	+ 6 25.2	1.877	2.849	4.0	19.9
2 11	8 31.39	+ 7 23.7	1.894	2.852	5.9	20.0
2 21	8 24.85	+ 8 26.4	1.939	2.856	9.1	20.2
3 2	8 20.16	+ 9 28.1	2.010	2.859	12.2	20.4
166980 2003 OH_{15}			1 28.8	220°.55	0°.1/28.7	18
12 23	9 10.75	+16 13.0	1.979	2.767	14.5	21.1
1 2	9 5.74	+16 38.1	1.882	2.758	11.3	20.9
1 12	8 58.20	+17 13.5	1.808	2.748	7.4	20.6
1 22	8 48.71	+17 55.7	1.761	2.738	3.1	20.3
2 1	8 38.20	+18 39.6	1.743	2.727	1.5	20.2
2 11	8 27.86	+19 20.3	1.756	2.715	6.1	20.5
2 21	8 18.84	+19 53.9	1.796	2.703	10.3	20.7
3 2	8 12.06	+20 18.2	1.861	2.690	13.9	20.9
80855 2000 DD_{23}			1 28.8	248°.34	3°.9/26.9	18
12 23	9 15.41	+28 15.3	1.934	2.734	14.3	19.9
1 2	9 9.51	+28 35.1	1.841	2.722	11.2	19.7
1 12	9 0.72	+28 54.2	1.772	2.711	7.6	19.5
1 22	8 49.75	+29 6.6	1.729	2.699	4.5	19.2
2 1	8 37.73	+29 6.8	1.716	2.687	4.5	19.2
2 11	8 26.08	+28 51.4	1.732	2.674	7.8	19.4
2 21	8 16.11	+28 20.6	1.775	2.661	11.6	19.6
3 2	8 8.79	+27 36.9	1.842	2.648	15.0	19.8
126090 2001 YC_{97}			1 28.8	161°.26	1°.8/27.6	18
12 23	9 12.48	+20 12.0	1.912	2.707	14.6	21.0
1 2	9 7.04	+20 59.8	1.833	2.714	11.2	20.8
1 12	8 58.99	+21 55.5	1.777	2.720	7.3	20.6
1 22	8 49.00	+22 53.3	1.749	2.725	3.2	20.3
2 1	8 38.10	+23 46.7	1.750	2.730	2.7	20.3
2 11	8 27.57	+24 30.2	1.781	2.734	6.7	20.5
2 21	8 18.57	+25 0.7	1.840	2.737	10.7	20.8
3 2	8 11.97	+25 17.6	1.923	2.739	14.1	21.0

205862 2002 EQ_{87} 1 28.8 292.°86 4.°7/26.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 11.71	+26 50.6	1.534	2.353	16.5	20.1
1 2	9 7.33	+27 40.0	1.454	2.347	12.8	19.8
1 12	8 59.65	+28 32.9	1.396	2.340	8.7	19.6
1 22	8 49.40	+29 21.2	1.363	2.334	5.2	19.3
2 1	8 37.89	+29 56.1	1.357	2.327	5.5	19.3
2 11	8 26.81	+30 11.9	1.378	2.321	9.3	19.5
2 21	8 17.70	+30 7.1	1.423	2.315	13.5	19.8
3 2	8 11.67	+29 44.0	1.490	2.309	17.3	20.0

239233 2006 SU_{129} 1 28.8 132.°23 1.°7/30.1 17

12 23	9 5.01	+10 51.9	2.787	3.550	11.3	21.6
1 2	9 0.42	+10 58.3	2.702	3.560	8.9	21.4
1 12	8 54.23	+11 13.9	2.642	3.570	6.1	21.2
1 22	8 46.93	+11 37.2	2.609	3.579	3.2	21.1
2 1	8 39.13	+12 5.8	2.607	3.588	1.8	21.0
2 11	8 31.56	+12 36.9	2.636	3.597	4.2	21.2
2 21	8 24.89	+13 7.7	2.695	3.605	7.1	21.4
3 2	8 19.68	+13 36.0	2.780	3.613	9.7	21.5

111718 2002 CJ_{38} 1 28.8 42.°60 1.°2/29.4 18

12 23	9 8.55	+13 31.1	1.431	2.237	18.1	19.9
1 2	9 4.65	+13 43.6	1.358	2.242	14.2	19.6
1 12	8 57.74	+14 11.6	1.305	2.247	9.5	19.4
1 22	8 48.56	+14 51.5	1.276	2.252	4.3	19.1
2 1	8 38.32	+15 37.7	1.274	2.258	1.9	18.9
2 11	8 28.57	+16 23.7	1.299	2.263	7.0	19.3
2 21	8 20.65	+17 4.1	1.349	2.269	11.9	19.6
3 2	8 15.56	+17 35.4	1.422	2.276	16.1	19.8

325943 2010 VZ_{54} 1 28.8 90.°77 1.°7/29.8 18

12 23	9 8.97	+11 52.3	1.841	2.624	15.6	21.2
1 2	9 4.18	+12 5.0	1.770	2.641	12.1	21.0
1 12	8 57.00	+12 31.0	1.722	2.657	8.2	20.8
1 22	8 48.13	+13 7.4	1.700	2.673	3.9	20.5
2 1	8 38.55	+13 50.0	1.707	2.689	1.9	20.4
2 11	8 29.44	+14 33.8	1.743	2.705	5.7	20.7
2 21	8 21.80	+15 14.4	1.806	2.721	9.7	21.0
3 2	8 16.39	+15 48.8	1.894	2.736	13.2	21.2

18217 5021 P–L 1 28.8 190.°53 5.°3/31.9 18

12 23	9 9.12	+ 2 22.6	2.024	2.763	15.8	19.1
1 2	9 4.27	+ 2 5.8	1.930	2.762	13.0	18.9
1 12	8 57.12	+ 2 6.9	1.858	2.761	9.9	18.7
1 22	8 48.24	+ 2 26.7	1.811	2.758	6.8	18.5
2 1	8 38.48	+ 3 3.8	1.792	2.755	5.3	18.4
2 11	8 28.92	+ 3 54.4	1.802	2.752	6.8	18.5
2 21	8 20.58	+ 4 53.3	1.839	2.748	10.0	18.7
3 2	8 14.29	+ 5 54.8	1.902	2.743	13.2	18.9

184744 2005 SB_{238} 1 28.8 217.°64 4.°0/26.2 18

12 23	9 11.77	+28 12.0	2.209	3.008	12.8	20.4
1 2	9 6.38	+28 57.2	2.121	3.001	9.9	20.2
1 12	8 58.53	+29 43.3	2.056	2.994	6.8	20.0
1 22	8 48.82	+30 24.3	2.020	2.986	4.3	19.8
2 1	8 38.21	+30 54.3	2.013	2.978	4.6	19.8
2 11	8 27.88	+31 9.4	2.035	2.970	7.4	19.9
2 21	8 18.92	+31 8.5	2.085	2.961	10.6	20.1
3 2	8 12.20	+30 52.7	2.159	2.951	13.5	20.3

127500 2002 TH_{57} 1 28.8 144.°49 16.°2/ 7.8 18

12 23	9 10.44	−17 28.7	1.428	2.086	24.5	20.5
1 2	9 6.27	−19 7.7	1.359	2.092	22.4	20.3
1 12	8 58.94	−20 10.8	1.303	2.099	20.1	20.2
1 22	8 49.12	−20 29.3	1.262	2.104	18.0	20.1
2 1	8 38.04	−19 57.3	1.241	2.110	16.5	20.0
2 11	8 27.29	−18 36.4	1.241	2.114	16.3	20.0
2 21	8 18.37	−16 35.6	1.261	2.118	17.4	20.0
3 2	8 12.40	−14 8.7	1.302	2.122	19.3	20.2

90941 1997 TW_{23} 1 28.8 175.°75 4.°9/26.0 18

12 23	9 14.93	+28 35.5	1.830	2.634	14.8	20.4
1 2	9 9.25	+29 32.7	1.753	2.636	11.6	20.2
1 12	9 0.60	+30 30.9	1.700	2.638	8.0	20.0
1 22	8 49.72	+31 22.2	1.673	2.639	5.2	19.9
2 1	8 37.80	+31 59.1	1.676	2.639	5.6	19.9
2 11	8 26.35	+32 16.6	1.707	2.639	8.7	20.1
2 21	8 16.69	+32 14.2	1.763	2.639	12.2	20.3
3 2	8 9.79	+31 54.1	1.843	2.638	15.4	20.5

48617 1995 HR_{2} 1 28.8 7.°38 6.°5/24.6 18

12 23	9 7.80	+32 7.3	1.773	2.592	14.6	18.3
1 2	9 3.95	+33 23.1	1.705	2.593	11.5	18.1
1 12	8 57.23	+34 37.5	1.660	2.594	8.5	18.0
1 22	8 48.34	+35 41.8	1.641	2.596	6.6	17.8
2 1	8 38.46	+36 27.8	1.649	2.599	7.2	17.9
2 11	8 29.05	+36 50.7	1.683	2.602	9.9	18.0
2 21	8 21.38	+36 49.8	1.742	2.606	13.0	18.2
3 2	8 16.40	+36 28.0	1.822	2.610	15.8	18.4

291911 2006 QV_{11} 1 28.8 111.°76 2.°1/27.3 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.56	+23 30.9	2.414	3.211	11.9	20.6
1 2	9 2.74	+24 0.7	2.336	3.218	9.1	20.4
1 12	8 55.92	+24 33.5	2.282	3.224	5.9	20.2
1 22	8 47.67	+25 5.1	2.256	3.230	2.9	20.0
2 1	8 38.81	+25 31.2	2.260	3.236	2.7	20.0
2 11	8 30.27	+25 48.8	2.294	3.242	5.7	20.2
2 21	8 22.90	+25 56.3	2.356	3.248	8.8	20.4
3 2	8 17.39	+25 53.6	2.443	3.254	11.6	20.6

456547 2007 BX_{27} 1 28.8 331.°84 0.°7/28.5 18

12 23	9 11.66	+20 43.9	1.660	2.466	16.0	20.7
1 2	9 6.80	+20 30.3	1.574	2.460	12.4	20.5
1 12	8 59.03	+20 20.9	1.509	2.454	8.1	20.2
1 22	8 49.08	+20 12.5	1.471	2.449	3.4	19.9
2 1	8 38.11	+20 1.3	1.460	2.443	1.9	19.8
2 11	8 27.57	+19 44.8	1.478	2.439	6.8	20.1
2 21	8 18.77	+19 21.9	1.522	2.434	11.4	20.3
3 2	8 12.65	+18 53.1	1.589	2.430	15.3	20.6

499951 2011 HA_{98} 1 28.8 151.°00 4.°0/ 1.5 18

12 23	9 4.03	+ 1 8.3	2.769	3.491	12.3	21.9
1 2	8 59.72	+ 1 21.7	2.677	3.498	10.2	21.7
1 12	8 53.83	+ 1 50.6	2.608	3.504	7.7	21.6
1 22	8 46.79	+ 2 34.2	2.566	3.511	5.3	21.4
2 1	8 39.23	+ 3 30.7	2.554	3.517	4.0	21.3
2 11	8 31.85	+ 4 36.3	2.572	3.522	5.1	21.4
2 21	8 25.32	+ 5 46.7	2.620	3.527	7.4	21.6
3 2	8 20.19	+ 6 57.5	2.696	3.532	9.9	21.7

511746 2015 DK_{120} 1 28.8 231.°88 2.°3/30.9 18

12 23	9 3.25	+ 6 38.6	2.983	3.729	11.0	21.4
1 2	8 59.14	+ 7 7.0	2.874	3.718	8.8	21.2
1 12	8 53.49	+ 7 47.9	2.789	3.706	6.3	21.1
1 22	8 46.68	+ 8 40.0	2.732	3.695	3.6	20.9
2 1	8 39.27	+ 9 40.7	2.705	3.682	2.3	20.8
2 11	8 31.94	+10 46.4	2.711	3.670	4.2	20.9
2 21	8 25.32	+11 53.0	2.746	3.657	7.0	21.0
3 2	8 20.00	+12 57.1	2.810	3.644	9.6	21.2

409835 2006 QF_{103} 1 28.8 105.°99 1.°0/29.4 18

12 23	9 10.60	+13 13.3	1.958	2.738	14.9	22.8
1 2	9 5.27	+13 34.5	1.889	2.759	11.5	22.6
1 12	8 57.64	+14 7.3	1.843	2.780	7.6	22.4
1 22	8 48.40	+14 48.3	1.825	2.800	3.4	22.2
2 1	8 38.50	+15 33.1	1.836	2.819	1.5	22.1
2 11	8 29.08	+16 16.8	1.877	2.838	5.5	22.4
2 21	8 21.10	+16 55.6	1.946	2.857	9.4	22.6
3 2	8 15.31	+17 27.0	2.040	2.875	12.7	22.9

289684 2005 GH_{161} 1 28.8 330.°63 0.°1/28.8 18

12 23	9 3.61	+14 47.8	1.907	2.707	14.5	20.3
1 2	9 0.32	+15 25.4	1.816	2.698	11.2	20.0
1 12	8 54.71	+16 15.9	1.747	2.690	7.4	19.8
1 22	8 47.30	+17 15.6	1.704	2.681	3.1	19.5
2 1	8 38.98	+18 19.1	1.690	2.674	1.4	19.4
2 11	8 30.85	+19 20.3	1.704	2.666	5.9	19.7
2 21	8 23.95	+20 14.2	1.746	2.659	10.1	19.9
3 2	8 19.16	+20 57.5	1.812	2.653	13.7	20.1

339581 2005 MR_{14} 1 28.8 175.°52 4.°0/31.9 17

12 23	9 4.13	+ 3 18.8	2.630	3.366	12.6	21.4
1 2	8 59.91	+ 3 9.7	2.536	3.367	10.3	21.2
1 12	8 54.03	+ 3 14.3	2.465	3.368	7.7	21.0
1 22	8 46.92	+ 3 32.6	2.420	3.368	5.3	20.9
2 1	8 39.23	+ 4 3.1	2.404	3.369	4.0	20.8
2 11	8 31.71	+ 4 43.1	2.418	3.369	5.3	20.9
2 21	8 25.09	+ 5 28.9	2.461	3.369	7.8	21.0
3 2	8 19.94	+ 6 16.8	2.530	3.369	10.4	21.2

243366 2008 WH_{74} 1 28.8 311.°45 6.°4/23.3 17

12 23	9 6.24	+30 17.2	1.949	2.766	13.6	20.2
1 2	9 2.95	+32 6.3	1.848	2.736	10.8	20.0
1 12	8 56.84	+34 1.4	1.772	2.707	8.0	19.8
1 22	8 48.37	+35 53.0	1.723	2.678	6.4	19.6
2 1	8 38.44	+37 30.7	1.703	2.649	7.5	19.6
2 11	8 28.40	+38 46.2	1.710	2.620	10.4	19.7
2 21	8 19.65	+39 35.2	1.742	2.592	13.7	19.9
3 2	8 13.41	+39 58.0	1.795	2.564	16.8	20.0

428863 2008 UW_{126} 1 28.8 25.°14 5.°0/25.7 18

12 23	9 5.92	+26 49.6	1.566	2.394	15.8	20.4
1 2	9 2.55	+28 5.8	1.510	2.407	12.1	20.2
1 12	8 56.31	+29 24.9	1.477	2.421	8.3	20.0
1 22	8 47.97	+30 37.9	1.468	2.437	5.3	19.9
2 1	8 38.76	+31 36.4	1.487	2.453	5.8	20.0
2 11	8 30.14	+32 14.4	1.533	2.470	9.1	20.2
2 21	8 23.35	+32 30.7	1.602	2.488	12.6	20.5
3 2	8 19.27	+32 26.9	1.693	2.507	15.8	20.7

28717 2000 GT_{106} 1 28.8 149°.37 6°.7/ 2.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.44	− 2 58.1	2.237	2.944	15.3	19.2
1 2	9 2.70	− 3 28.4	2.151	2.952	13.0	19.1
1 12	8 55.96	− 3 39.7	2.085	2.959	10.4	18.9
1 22	8 47.75	− 3 30.3	2.044	2.966	8.0	18.8
2 1	8 38.85	− 3 0.6	2.031	2.972	6.8	18.7
2 11	8 30.20	− 2 13.4	2.045	2.978	7.5	18.8
2 21	8 22.65	− 1 13.8	2.088	2.983	9.6	18.9
3 2	8 16.92	− 0 7.5	2.155	2.988	12.1	19.1

68448 Sidneywolff 1 28.8 128°.98 3°.2/26.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.03	+22 55.4	1.845	2.644	14.9	19.7
1 2	9 8.30	+24 5.0	1.778	2.661	11.4	19.5
1 12	8 59.84	+25 20.7	1.736	2.678	7.5	19.3
1 22	8 49.39	+26 34.7	1.720	2.694	3.9	19.1
2 1	8 38.08	+27 39.2	1.735	2.709	4.0	19.1
2 11	8 27.27	+28 28.5	1.779	2.723	7.5	19.4
2 21	8 18.15	+29 0.1	1.851	2.736	11.2	19.6
3 2	8 11.59	+29 14.5	1.945	2.749	14.4	19.9

70231 1999 RP_{58} 1 28.8 226°.60 0°.6/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.07	+18 49.6	1.848	2.643	15.1	20.2
1 2	9 6.92	+19 0.3	1.756	2.636	11.7	19.9
1 12	8 59.07	+19 18.5	1.686	2.629	7.6	19.7
1 22	8 49.14	+19 40.2	1.643	2.620	3.1	19.4
2 1	8 38.17	+20 0.9	1.629	2.612	1.8	19.3
2 11	8 27.48	+20 16.3	1.644	2.603	6.4	19.5
2 21	8 18.30	+20 24.0	1.687	2.594	10.8	19.8
3 2	8 11.57	+20 23.2	1.753	2.584	14.6	20.0

245868 2006 PJ_{21} 1 28.8 188°.71 3°.6/26.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.38	+31 14.7	2.696	3.479	11.2	20.6
1 2	9 8.54	+31 23.7	2.608	3.478	8.7	20.4
1 12	8 59.60	+31 29.1	2.546	3.477	6.1	20.2
1 22	8 49.19	+31 26.4	2.513	3.476	3.9	20.1
2 1	8 38.20	+31 12.5	2.511	3.474	4.0	20.1
2 11	8 27.63	+30 45.7	2.540	3.472	6.3	20.2
2 21	8 18.38	+30 6.9	2.599	3.470	8.9	20.4
3 2	8 11.12	+29 18.2	2.684	3.467	11.4	20.5

45358 2000 AM_{102} 1 28.8 84°.36 4°.3/31.0 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.14	+ 6 26.1	1.400	2.179	19.8	18.9
1 2	9 7.17	+ 6 23.1	1.340	2.202	15.8	18.7
1 12	8 59.22	+ 6 41.9	1.300	2.225	11.2	18.5
1 22	8 49.14	+ 7 20.8	1.284	2.248	6.6	18.3
2 1	8 38.23	+ 8 15.4	1.294	2.270	4.3	18.2
2 11	8 28.02	+ 9 18.4	1.331	2.292	7.3	18.5
2 21	8 19.78	+10 22.6	1.394	2.314	11.6	18.8
3 2	8 14.38	+11 21.7	1.480	2.335	15.5	19.0

143644 2003 OE_{3} 1 28.8 218°.79 0°.5/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.95	+15 11.8	2.008	2.791	14.4	21.1
1 2	9 5.85	+15 26.6	1.910	2.783	11.3	20.8
1 12	8 58.28	+15 51.6	1.836	2.774	7.5	20.6
1 22	8 48.80	+16 23.9	1.788	2.764	3.2	20.3
2 1	8 38.34	+16 59.2	1.770	2.754	1.4	20.1
2 11	8 28.05	+17 33.0	1.782	2.743	5.9	20.4
2 21	8 19.07	+18 1.9	1.822	2.731	10.0	20.6
3 2	8 12.28	+18 23.4	1.887	2.719	13.7	20.8

73585 3339 T_{-1} 1 28.8 309°.44 3°.0/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.62	+25 12.2	2.095	2.900	13.2	19.7
1 2	9 3.98	+25 50.3	2.014	2.899	10.1	19.5
1 12	8 56.97	+26 31.1	1.956	2.899	6.7	19.3
1 22	8 48.21	+27 9.3	1.926	2.898	3.6	19.1
2 1	8 38.64	+27 39.6	1.924	2.898	3.7	19.1
2 11	8 29.42	+27 58.0	1.952	2.897	6.8	19.3
2 21	8 21.56	+28 2.9	2.007	2.896	10.3	19.5
3 2	8 15.88	+27 54.8	2.085	2.896	13.3	19.7

456851 2007 UZ_{99} 1 28.8 141°.41 1°.6/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.83	+12 35.7	1.775	2.561	15.9	22.1
1 2	9 5.09	+12 40.8	1.694	2.566	12.5	21.8
1 12	8 57.79	+12 58.7	1.635	2.571	8.4	21.6
1 22	8 48.58	+13 27.0	1.602	2.575	4.0	21.3
2 1	8 38.48	+14 1.8	1.597	2.579	2.0	21.2
2 11	8 28.75	+14 38.2	1.621	2.583	6.1	21.5
2 21	8 20.53	+15 12.1	1.672	2.587	10.3	21.7
3 2	8 14.68	+15 40.3	1.747	2.590	14.1	22.0

518983 2010 HS_{114} 1 28.8 189°.48 3°.3/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.34	+ 7 59.7	1.806	2.576	16.3	22.1
1 2	9 4.74	+ 7 59.0	1.717	2.576	13.1	21.9
1 12	8 57.60	+ 8 14.8	1.650	2.575	9.3	21.7
1 22	8 48.52	+ 8 46.0	1.608	2.574	5.3	21.4
2 1	8 38.49	+ 9 29.5	1.594	2.572	3.4	21.3
2 11	8 28.72	+10 20.3	1.609	2.570	6.3	21.5
2 21	8 20.35	+11 13.1	1.652	2.567	10.4	21.7
3 2	8 14.28	+12 2.9	1.718	2.564	14.1	21.9

229314 2005 GW_{94} 1 28.8 214°.20 0°.8/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.74	+17 24.6	1.599	2.399	16.8	22.0
1 2	9 7.89	+17 57.1	1.510	2.394	13.1	21.8
1 12	8 59.96	+18 41.7	1.444	2.387	8.6	21.5
1 22	8 49.60	+19 33.3	1.403	2.380	3.5	21.2
2 1	8 37.98	+20 25.1	1.390	2.373	2.1	21.0
2 11	8 26.62	+21 10.4	1.405	2.365	7.3	21.3
2 21	8 16.97	+21 44.6	1.447	2.356	12.1	21.6
3 2	8 10.14	+22 6.0	1.512	2.346	16.3	21.8

259516 2003 SL_{431} 1 28.8 263°.72 3°.6/26.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.78	+23 28.4	1.691	2.504	15.5	20.8
1 2	9 5.63	+24 31.5	1.602	2.493	12.0	20.5
1 12	8 58.51	+25 42.7	1.536	2.481	8.0	20.3
1 22	8 49.02	+26 54.6	1.496	2.470	4.3	20.0
2 1	8 38.25	+27 58.5	1.484	2.458	4.5	20.0
2 11	8 27.70	+28 47.2	1.500	2.446	8.4	20.2
2 21	8 18.75	+29 17.1	1.542	2.434	12.6	20.4
3 2	8 12.53	+29 28.0	1.605	2.422	16.4	20.6

85326 1995 OR_{6} 1 28.8 265°.90 2°.9/31.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.40	+ 6 0.3	2.385	3.141	13.2	19.5
1 2	8 59.65	+ 6 24.0	2.284	3.133	10.6	19.3
1 12	8 54.03	+ 7 3.5	2.206	3.126	7.6	19.1
1 22	8 47.01	+ 7 57.3	2.155	3.118	4.5	18.9
2 1	8 39.25	+ 9 2.5	2.133	3.110	2.9	18.8
2 11	8 31.62	+10 14.3	2.141	3.102	5.1	18.9
2 21	8 24.92	+11 27.6	2.179	3.094	8.3	19.1
3 2	8 19.85	+12 37.8	2.242	3.085	11.4	19.3

130906 2000 VD_{42} 1 28.8 332°.40 1°.8/29.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.13	+13 10.3	1.512	2.313	17.6	19.5
1 2	9 5.06	+13 5.9	1.430	2.310	13.9	19.3
1 12	8 58.05	+13 15.3	1.369	2.308	9.4	19.0
1 22	8 48.79	+13 36.2	1.332	2.306	4.5	18.7
2 1	8 38.41	+14 4.7	1.321	2.304	2.2	18.6
2 11	8 28.40	+14 35.6	1.338	2.303	6.9	18.9
2 21	8 20.11	+15 4.3	1.381	2.301	11.7	19.1
3 2	8 14.54	+15 27.4	1.446	2.300	15.9	19.4

52186 4072 T_{-2} 1 28.8 160°.55 2°.9/27.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.34	+23 0.1	1.760	2.560	15.5	20.6
1 2	9 9.52	+23 47.0	1.684	2.567	11.9	20.4
1 12	9 0.78	+24 39.6	1.631	2.574	7.8	20.2
1 22	8 49.85	+25 31.1	1.605	2.579	3.8	19.9
2 1	8 37.92	+26 14.3	1.608	2.584	3.7	19.9
2 11	8 26.47	+26 43.9	1.640	2.588	7.6	20.2
2 21	8 16.79	+26 57.7	1.699	2.591	11.6	20.4
3 2	8 9.84	+26 56.6	1.781	2.594	15.2	20.7

63212 2001 AT_{17} 1 28.8 324°.00 2°.9/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.88	+ 9 4.1	1.472	2.270	18.1	18.9
1 2	9 1.95	+ 9 14.9	1.384	2.260	14.5	18.6
1 12	8 56.14	+ 9 46.1	1.316	2.251	10.2	18.3
1 22	8 48.05	+10 36.0	1.271	2.242	5.5	18.0
2 1	8 38.74	+11 40.2	1.252	2.233	3.1	17.8
2 11	8 29.64	+12 51.3	1.260	2.225	7.0	18.1
2 21	8 22.12	+14 1.8	1.293	2.217	11.9	18.3
3 2	8 17.25	+15 5.3	1.349	2.211	16.3	18.5

168101 2006 DJ_{210} 1 28.8 253°.12 1°.4/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.20	+19 38.3	1.751	2.553	15.5	21.3
1 2	9 6.55	+20 6.9	1.655	2.539	12.0	21.0
1 12	8 59.03	+20 44.4	1.580	2.524	7.9	20.8
1 22	8 49.22	+21 25.9	1.532	2.509	3.3	20.5
2 1	8 38.18	+22 5.4	1.512	2.494	2.4	20.4
2 11	8 27.30	+22 37.2	1.521	2.478	7.1	20.6
2 21	8 17.94	+22 57.7	1.557	2.462	11.7	20.8
3 2	8 11.18	+23 5.9	1.615	2.445	15.7	21.0

342915 2008 YA_{154} 1 28.8 112°.69 1°.1/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.31	+19 40.5	2.500	3.291	11.7	21.4
1 2	9 1.71	+20 17.7	2.423	3.302	8.9	21.2
1 12	8 55.24	+21 0.6	2.370	3.313	5.7	21.0
1 22	8 47.45	+21 45.3	2.346	3.323	2.4	20.8
2 1	8 39.08	+22 27.6	2.353	3.334	1.9	20.8
2 11	8 31.00	+23 3.9	2.390	3.344	5.1	21.0
2 21	8 24.00	+23 31.7	2.455	3.354	8.2	21.3
3 2	8 18.70	+23 50.1	2.546	3.364	11.0	21.5

68833 2002 GL_{98} 1 28.8 148°.43 2°.2/30.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.87	+10 40.6	1.993	2.763	15.0	20.0
1 2	9 5.57	+10 45.0	1.911	2.773	11.8	19.8
1 12	8 57.95	+11 2.3	1.852	2.782	8.1	19.6
1 22	8 48.62	+11 30.5	1.820	2.790	4.2	19.4
2 1	8 38.52	+12 6.3	1.817	2.798	2.3	19.3
2 11	8 28.78	+12 45.3	1.844	2.805	5.6	19.5
2 21	8 20.40	+13 23.4	1.899	2.811	9.5	19.8
3 2	8 14.16	+13 57.3	1.979	2.816	12.9	20.0

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
503126 2015 FL_{343}			1 28.8 192°35	15°9/20.3 17		
	h m	° ′			°	m
12 23	9 30.21	+49 24.9	1.324	2.113	20.2	20.6
1 2	9 24.09	+51 41.2	1.274	2.112	18.0	20.5
1 12	9 11.97	+53 39.2	1.243	2.111	16.4	20.4
1 22	8 54.90	+54 59.6	1.233	2.110	15.9	20.3
2 1	8 35.53	+55 27.0	1.244	2.108	16.8	20.4
2 11	8 17.56	+54 57.6	1.275	2.105	18.8	20.5
2 21	8 3.95	+53 39.9	1.325	2.102	21.1	20.7
3 2	7 56.17	+51 47.9	1.390	2.098	23.4	20.8
249516 Aretha			1 28.8	1°54	2°2/27.1 18	
12 23	9 4.90	+21 22.8	2.189	2.993	12.7	20.6
1 2	9 1.05	+22 19.6	2.106	2.993	9.7	20.4
1 12	8 55.05	+23 23.2	2.048	2.993	6.3	20.2
1 22	8 47.45	+24 28.3	2.017	2.993	3.0	20.0
2 1	8 39.08	+25 29.1	2.016	2.993	2.9	20.0
2 11	8 30.94	+26 20.5	2.044	2.993	6.2	20.2
2 21	8 23.98	+26 59.2	2.100	2.994	9.6	20.4
3 2	8 18.96	+27 24.2	2.180	2.995	12.7	20.6
234967 2002 XQ_{15}			1 28.8 149°20	2°0/27.3 18		
12 23	9 9.34	+24 29.5	2.800	3.588	10.7	20.9
1 2	9 3.82	+24 52.7	2.719	3.596	8.2	20.7
1 12	8 56.52	+25 17.3	2.664	3.604	5.3	20.6
1 22	8 47.96	+25 39.7	2.639	3.612	2.7	20.4
2 1	8 38.87	+25 56.6	2.644	3.619	2.5	20.4
2 11	8 30.09	+26 5.6	2.680	3.626	5.1	20.6
2 21	8 22.37	+26 5.6	2.745	3.633	7.9	20.8
3 2	8 16.31	+25 56.7	2.837	3.639	10.4	20.9
402617 2006 SA_{318}			1 28.8 87°08	3°1/27.0 18		
12 23	9 13.26	+23 56.3	1.801	2.604	15.1	22.5
1 2	9 7.61	+24 45.3	1.744	2.629	11.5	22.3
1 12	8 59.30	+25 37.8	1.711	2.654	7.5	22.1
1 22	8 49.16	+26 27.3	1.704	2.678	3.8	22.0
2 1	8 38.33	+27 7.1	1.727	2.702	3.8	22.0
2 11	8 28.17	+27 33.0	1.779	2.725	7.3	22.3
2 21	8 19.77	+27 43.7	1.857	2.748	10.9	22.5
3 2	8 13.93	+27 40.3	1.959	2.770	14.0	22.8
295361 2008 HM_{46}			1 28.8 199°32	3°2/26.4 13 C		
12 23	9 10.03	+25 55.4	2.462	3.257	11.8	22.2
1 2	9 4.81	+26 49.1	2.373	3.253	9.1	22.0
1 12	8 57.43	+27 45.6	2.310	3.249	6.1	21.9
1 22	8 48.43	+28 39.5	2.274	3.244	3.6	21.7
2 1	8 38.62	+29 25.2	2.270	3.238	3.8	21.7
2 11	8 29.02	+29 58.7	2.295	3.232	6.5	21.8
2 21	8 20.58	+30 18.1	2.349	3.226	9.5	22.0
3 2	8 14.05	+30 23.6	2.428	3.218	12.3	22.2
500585 2012 UE_{93}			1 28.8 138°44	2°7/30.6 17		
12 23	9 6.29	+ 8 57.0	2.527	3.285	12.5	21.6
1 2	9 1.61	+ 8 42.4	2.438	3.290	9.9	21.5
1 12	8 55.16	+ 8 38.1	2.373	3.294	7.0	21.3
1 22	8 47.43	+ 8 43.5	2.335	3.299	4.1	21.1
2 1	8 39.12	+ 8 56.9	2.327	3.303	2.8	21.0
2 11	8 31.06	+ 9 16.0	2.349	3.307	4.9	21.2
2 21	8 23.98	+ 9 37.9	2.400	3.311	7.8	21.4
3 2	8 18.51	+ 9 59.9	2.477	3.315	10.6	21.5
1932 Jansky			1 28.8 355°35	1°6/29.5 18		
12 23	9 4.63	+13 29.3	1.182	2.008	19.9	16.5
1 2	9 2.31	+13 31.2	1.108	2.003	15.7	16.2
1 12	8 56.63	+13 50.7	1.053	1.999	10.6	15.9
1 22	8 48.30	+14 25.0	1.020	1.997	4.9	15.6
2 1	8 38.67	+15 8.4	1.012	1.995	2.2	15.4
2 11	8 29.49	+15 53.6	1.028	1.995	7.8	15.7
2 21	8 22.34	+16 33.9	1.067	1.996	13.3	16.0
3 2	8 18.37	+17 4.9	1.126	1.998	18.1	16.3
217987 2001 VG_{131}			1 28.8 95°37	3°6/26.2 18		
12 23	9 8.37	+22 58.3	1.859	2.668	14.4	20.1
1 2	9 4.11	+24 25.4	1.787	2.676	11.0	19.9
1 12	8 57.24	+25 59.9	1.739	2.684	7.3	19.7
1 22	8 48.42	+27 34.1	1.719	2.691	4.0	19.5
2 1	8 38.65	+28 59.1	1.728	2.699	4.4	19.5
2 11	8 29.21	+30 8.1	1.765	2.706	7.8	19.8
2 21	8 21.27	+30 57.5	1.830	2.713	11.4	20.0
3 2	8 15.72	+31 27.2	1.917	2.721	14.6	20.2
460594 2014 UM_{41}			1 28.8 190°13	6°8/24.1 18		
12 23	9 12.49	+34 41.6	2.008	2.812	13.7	21.1
1 2	9 7.41	+36 1.2	1.935	2.811	11.0	21.0
1 12	8 59.46	+37 17.6	1.887	2.811	8.4	20.8
1 22	8 49.35	+38 22.2	1.865	2.810	6.9	20.7
2 1	8 38.21	+39 7.1	1.871	2.809	7.6	20.7
2 11	8 27.46	+39 27.9	1.904	2.807	9.9	20.9
2 21	8 18.40	+39 24.4	1.963	2.806	12.6	21.1
3 2	8 11.99	+38 59.9	2.043	2.804	15.2	21.2

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
219460 2000 XN_{36}			1 28.8 44°44	4°3/27.2 18		
	h m	° ′			°	m
12 23	9 15.98	+28 46.8	1.536	2.349	16.7	19.8
1 2	9 10.04	+28 58.1	1.483	2.371	12.9	19.6
1 12	9 0.98	+29 7.0	1.452	2.393	8.7	19.4
1 22	8 49.84	+29 7.1	1.446	2.416	5.0	19.2
2 1	8 38.08	+28 53.2	1.468	2.440	4.9	19.3
2 11	8 27.31	+28 23.8	1.517	2.464	8.3	19.5
2 21	8 18.79	+27 40.7	1.593	2.488	12.1	19.8
3 2	8 13.29	+26 47.3	1.690	2.512	15.4	20.1
420532 2012 FF_{72}			1 28.8 286°83	7°7/ 1.9 18		
12 23	9 5.70	− 1 50.8	1.924	2.653	16.8	20.8
1 2	9 2.00	− 2 34.4	1.816	2.633	14.4	20.6
1 12	8 55.92	− 2 58.4	1.728	2.612	11.6	20.4
1 22	8 47.93	− 2 59.7	1.664	2.592	9.0	20.2
2 1	8 38.85	− 2 37.1	1.625	2.571	7.7	20.1
2 11	8 29.78	− 1 52.6	1.612	2.550	8.7	20.1
2 21	8 21.81	− 0 51.2	1.626	2.529	11.4	20.2
3 2	8 15.91	+ 0 20.2	1.664	2.509	14.6	20.3
54657 2000 SA_{366}			1 28.8 232°33	1°5/27.4 18		
12 23	9 2.87	+23 6.6	3.520	4.308	8.7	19.5
1 2	8 58.67	+23 33.6	3.423	4.302	6.6	19.3
1 12	8 53.11	+24 2.8	3.354	4.295	4.3	19.2
1 22	8 46.57	+24 31.6	3.313	4.288	2.0	19.0
2 1	8 39.57	+24 57.3	3.304	4.281	1.9	19.0
2 11	8 32.70	+25 17.6	3.325	4.274	4.2	19.1
2 21	8 26.53	+25 31.2	3.377	4.266	6.5	19.3
3 2	8 21.55	+25 37.3	3.454	4.259	8.7	19.4
296743 2009 TQ_{41}			1 28.8 157°99	2°9/26.9 18		
12 23	9 8.65	+23 31.2	2.021	2.825	13.6	20.8
1 2	9 4.11	+24 24.1	1.941	2.827	10.4	20.6
1 12	8 57.14	+25 22.2	1.885	2.829	6.9	20.3
1 22	8 48.36	+26 19.6	1.856	2.830	3.6	20.1
2 1	8 38.71	+27 9.7	1.857	2.831	3.6	20.1
2 11	8 29.38	+27 47.7	1.887	2.833	7.0	20.4
2 21	8 21.44	+28 11.1	1.943	2.834	10.5	20.6
3 2	8 15.72	+28 19.8	2.024	2.835	13.7	20.8
107305 2001 CM_{7}			1 28.8 269°11	1°9/27.8 18		
12 23	9 11.02	+21 20.8	1.749	2.554	15.4	20.2
1 2	9 6.45	+21 45.5	1.653	2.539	11.9	19.9
1 12	8 58.98	+22 17.2	1.579	2.524	7.8	19.7
1 22	8 49.23	+22 50.7	1.531	2.508	3.5	19.4
2 1	8 38.26	+23 20.1	1.512	2.492	2.8	19.3
2 11	8 27.49	+23 40.2	1.521	2.476	7.3	19.5
2 21	8 18.27	+23 48.3	1.556	2.460	11.7	19.7
3 2	8 11.66	+23 44.0	1.614	2.444	15.7	19.9
148306 2000 KR_{68}			1 28.8 139°39	0°7/28.3 18		
12 23	9 8.71	+17 8.4	2.132	2.921	13.5	21.3
1 2	9 3.88	+17 53.3	2.052	2.930	10.4	21.1
1 12	8 56.85	+18 47.5	1.997	2.939	6.7	20.8
1 22	8 48.20	+19 46.5	1.970	2.947	2.7	20.6
2 1	8 38.80	+20 44.9	1.973	2.955	1.7	20.5
2 11	8 29.72	+21 37.4	2.006	2.963	5.6	20.8
2 21	8 21.90	+22 20.5	2.067	2.970	9.3	21.1
3 2	8 16.10	+22 52.5	2.154	2.977	12.5	21.3
333250 2012 HO_{79}			1 28.8 207°84	2°3/30.2 18		
12 23	9 6.94	+10 27.7	2.041	2.817	14.5	21.1
1 2	9 2.62	+10 28.4	1.951	2.816	11.5	20.9
1 12	8 56.10	+10 41.9	1.884	2.815	7.9	20.7
1 22	8 47.92	+11 6.7	1.844	2.813	4.2	20.5
2 1	8 38.94	+11 39.7	1.831	2.812	2.4	20.3
2 11	8 30.21	+12 17.1	1.849	2.811	5.5	20.5
2 21	8 22.69	+12 54.7	1.894	2.809	9.3	20.7
3 2	8 17.17	+13 29.0	1.964	2.807	12.7	21.0
381210 2007 RN_{149}			1 28.8 65°03	8°8/ 5.2 18		
12 23	9 4.88	−10 5.4	2.237	2.906	16.3	20.8
1 2	9 0.71	−10 48.9	2.167	2.927	14.2	20.7
1 12	8 54.64	−11 9.4	2.116	2.947	12.1	20.6
1 22	8 47.24	−11 4.5	2.088	2.968	10.1	20.5
2 1	8 39.28	−10 33.8	2.084	2.989	9.0	20.5
2 11	8 31.65	− 9 40.3	2.107	3.010	9.1	20.5
2 21	8 25.15	− 8 29.4	2.156	3.031	10.3	20.6
3 2	8 20.40	− 7 7.7	2.229	3.051	12.2	20.8
261573 2005 WB_{191}			1 28.8 89°07	5°4/31.7 18		
12 23	9 8.73	+ 3 55.9	1.948	2.698	16.0	20.4
1 2	9 3.95	+ 3 14.6	1.868	2.707	13.1	20.2
1 12	8 56.90	+ 2 49.1	1.810	2.717	9.9	20.0
1 22	8 48.22	+ 2 40.6	1.777	2.726	6.8	19.8
2 1	8 38.81	+ 2 48.4	1.772	2.735	5.4	19.8
2 11	8 29.75	+ 3 9.8	1.795	2.744	6.9	19.9
2 21	8 22.01	+ 3 40.7	1.845	2.753	9.9	20.1
3 2	8 16.36	+ 4 16.3	1.920	2.763	13.0	20.3

145151 2005 GH_{179} 1 28.8 263°.77 3°.3/31.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.07	+ 4 28.8	2.617	3.359	12.5	20.4
1 2	9 0.08	+ 4 43.5	2.501	3.339	10.2	20.2
1 12	8 54.32	+ 5 13.2	2.408	3.319	7.5	20.0
1 22	8 47.17	+ 5 57.4	2.341	3.298	4.8	19.7
2 1	8 39.27	+ 6 53.8	2.305	3.277	3.3	19.6
2 11	8 31.39	+ 7 59.0	2.298	3.255	5.1	19.7
2 21	8 24.30	+ 9 8.1	2.322	3.233	8.0	19.8
3 2	8 18.69	+10 16.9	2.372	3.211	11.0	20.0

135701 2002 PB_{24} 1 28.8 64°.36 0°.8/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.76	+15 15.1	1.526	2.324	17.5	19.8
1 2	9 7.39	+15 20.6	1.472	2.352	13.5	19.6
1 12	8 59.23	+15 37.5	1.439	2.380	8.8	19.4
1 22	8 49.15	+16 2.0	1.432	2.408	3.8	19.1
2 1	8 38.42	+16 29.3	1.452	2.436	1.6	19.1
2 11	8 28.48	+16 54.5	1.501	2.463	6.4	19.4
2 21	8 20.46	+17 14.2	1.576	2.491	10.8	19.7
3 2	8 15.16	+17 26.8	1.674	2.518	14.5	20.0

450177 2001 TQ_{161} 1 28.8 120°.91 3°.0/27.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.13	+23 58.0	1.707	2.509	15.8	22.2
1 2	9 10.06	+24 35.2	1.641	2.525	12.1	22.0
1 12	9 1.06	+25 16.1	1.598	2.541	8.0	21.8
1 22	8 49.96	+25 54.1	1.582	2.556	4.0	21.6
2 1	8 38.03	+26 22.6	1.594	2.570	3.7	21.6
2 11	8 26.75	+26 37.4	1.635	2.584	7.6	21.9
2 21	8 17.40	+26 37.3	1.703	2.597	11.5	22.1
3 2	8 10.83	+26 24.0	1.794	2.610	15.0	22.4

354844 2005 YA_{120} 1 28.8 83°.86 0°.3/28.7 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.10	+15 38.2	1.457	2.261	18.0	21.8
1 2	9 7.22	+16 17.4	1.397	2.282	13.8	21.6
1 12	8 59.34	+17 10.3	1.358	2.302	9.0	21.4
1 22	8 49.29	+18 10.9	1.345	2.322	3.7	21.1
2 1	8 38.37	+19 11.9	1.359	2.342	1.8	21.0
2 11	8 28.13	+20 6.0	1.401	2.362	7.0	21.4
2 21	8 19.86	+20 48.6	1.469	2.382	11.7	21.7
3 2	8 14.45	+21 18.0	1.560	2.401	15.6	22.0

29182 1990 ST_{6} 1 28.8 152°.20 0°.7/28.2 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.00	+18 30.2	2.710	3.495	11.1	19.4
1 2	9 1.37	+19 2.5	2.625	3.501	8.5	19.2
1 12	8 55.01	+19 40.7	2.565	3.506	5.5	19.0
1 22	8 47.41	+20 21.6	2.534	3.512	2.2	18.8
2 1	8 39.24	+21 1.5	2.534	3.517	1.5	18.7
2 11	8 31.29	+21 37.0	2.565	3.521	4.7	19.0
2 21	8 24.30	+22 5.7	2.625	3.525	7.7	19.2
3 2	8 18.88	+22 26.3	2.711	3.529	10.4	19.4

212065 2005 ER_{36} 1 28.8 257°.22 2°.3/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.42	+21 29.5	1.807	2.612	15.0	20.7
1 2	9 5.92	+22 10.2	1.712	2.598	11.6	20.4
1 12	8 58.62	+22 58.9	1.639	2.584	7.6	20.2
1 22	8 49.10	+23 49.8	1.593	2.569	3.5	19.9
2 1	8 38.39	+24 36.3	1.576	2.555	3.2	19.8
2 11	8 27.84	+25 12.4	1.587	2.539	7.3	20.1
2 21	8 18.78	+25 34.7	1.624	2.524	11.6	20.3
3 2	8 12.23	+25 42.6	1.685	2.508	15.4	20.5

322837 2001 TV_{68} 1 28.8 116°.96 0°.3/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.10	+17 22.4	2.001	2.792	14.2	21.5
1 2	9 5.01	+17 42.9	1.926	2.803	10.9	21.3
1 12	8 57.60	+18 11.6	1.874	2.815	7.1	21.1
1 22	8 48.52	+18 44.7	1.849	2.826	2.9	20.9
2 1	8 38.72	+19 17.6	1.854	2.837	1.5	20.8
2 11	8 29.34	+19 46.3	1.888	2.847	5.7	21.1
2 21	8 21.36	+20 7.9	1.950	2.858	9.5	21.4
3 2	8 15.55	+20 21.0	2.037	2.868	12.9	21.6

427562 2002 VB_{78} 1 28.8 86°.22 0°.4/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.21	+17 3.6	2.442	3.224	12.2	21.7
1 2	9 3.04	+17 38.9	2.379	3.253	9.3	21.6
1 12	8 56.04	+18 21.2	2.342	3.282	6.0	21.4
1 22	8 47.80	+19 6.6	2.333	3.310	2.4	21.2
2 1	8 39.09	+19 51.0	2.355	3.338	1.3	21.2
2 11	8 30.79	+20 30.8	2.408	3.366	4.8	21.5
2 21	8 23.65	+21 3.4	2.490	3.393	8.0	21.7
3 2	8 18.26	+21 27.4	2.598	3.419	10.7	21.9

191587 2004 EJ_{6} 1 28.8 241°.55 0°.5/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.59	+17 37.5	1.632	2.432	16.5	21.5
1 2	9 7.81	+17 55.9	1.538	2.420	12.9	21.2
1 12	8 59.98	+18 25.0	1.465	2.408	8.5	20.9
1 22	8 49.71	+19 0.4	1.417	2.395	3.5	20.6
2 1	8 38.12	+19 36.4	1.398	2.381	1.9	20.4
2 11	8 26.73	+20 7.4	1.407	2.367	7.1	20.7
2 21	8 16.98	+20 29.3	1.443	2.353	12.0	21.0
3 2	8 10.00	+20 40.5	1.501	2.338	16.3	21.2

53437 1999 WL_{2} 1 28.8 322°.83 2°.5/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.57	+20 21.8	1.284	2.110	18.7	18.6
1 2	9 6.14	+21 8.7	1.207	2.105	14.4	18.3
1 12	8 59.19	+22 7.9	1.151	2.100	9.5	18.0
1 22	8 49.44	+23 11.8	1.118	2.096	4.2	17.7
2 1	8 38.26	+24 10.8	1.111	2.091	3.7	17.7
2 11	8 27.48	+24 56.6	1.130	2.087	8.9	18.0
2 21	8 18.81	+25 24.5	1.172	2.084	14.1	18.2
3 2	8 13.47	+25 33.9	1.235	2.080	18.6	18.5

429031 Hannavonhoerner 1 28.8 99°.83 4°.3/25.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.20	+29 55.3	2.342	3.144	12.1	21.5
1 2	9 4.23	+30 47.1	2.272	3.152	9.4	21.3
1 12	8 57.05	+31 38.0	2.226	3.161	6.6	21.1
1 22	8 48.29	+32 22.2	2.208	3.170	4.5	21.0
2 1	8 38.86	+32 54.5	2.220	3.178	4.9	21.1
2 11	8 29.81	+33 11.5	2.260	3.187	7.2	21.2
2 21	8 22.08	+33 12.6	2.327	3.195	10.0	21.4
3 2	8 16.41	+32 59.1	2.418	3.203	12.5	21.6

140979 2001 VQ_{125} 1 28.8 199°.05 4°.5/ 1.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.69	+ 0 54.0	2.979	3.694	11.7	21.3
1 2	9 0.21	+ 0 33.8	2.878	3.691	9.7	21.2
1 12	8 54.20	+ 0 26.3	2.799	3.687	7.6	21.0
1 22	8 47.08	+ 0 32.1	2.748	3.683	5.5	20.9
2 1	8 39.42	+ 0 50.6	2.725	3.679	4.5	20.8
2 11	8 31.88	+ 1 19.8	2.733	3.674	5.4	20.8
2 21	8 25.10	+ 1 56.7	2.769	3.668	7.4	21.0
3 2	8 19.64	+ 2 38.1	2.833	3.663	9.6	21.1

333072 2011 UJ_{53} 1 28.8 172°.92 2°.7/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.64	+10 0.5	1.858	2.631	15.8	21.6
1 2	9 5.67	+ 9 54.1	1.771	2.633	12.6	21.4
1 12	8 58.19	+10 1.6	1.707	2.635	8.8	21.2
1 22	8 48.84	+10 21.5	1.668	2.637	4.7	20.9
2 1	8 38.59	+10 51.0	1.658	2.638	2.9	20.8
2 11	8 28.64	+11 25.8	1.677	2.638	6.1	21.0
2 21	8 20.12	+12 1.6	1.724	2.639	10.1	21.2
3 2	8 13.87	+12 34.6	1.795	2.638	13.8	21.5

495414 2014 SR_{115} 1 28.8 232°.16 1°.0/29.4 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.01	+13 28.9	1.983	2.765	14.7	22.6
1 2	9 5.23	+13 44.0	1.883	2.753	11.5	22.4
1 12	8 57.98	+14 11.2	1.805	2.741	7.8	22.1
1 22	8 48.80	+14 47.6	1.753	2.728	3.5	21.8
2 1	8 38.58	+15 29.5	1.731	2.714	1.6	21.7
2 11	8 28.49	+16 11.8	1.739	2.700	5.9	21.9
2 21	8 19.66	+16 50.4	1.775	2.686	10.1	22.1
3 2	8 13.00	+17 22.2	1.835	2.671	13.8	22.3

59403 1999 FV_{34} 1 28.8 259°.66 7°.0/24.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.46	+35 23.0	1.998	2.800	13.8	19.1
1 2	9 8.32	+36 32.0	1.913	2.788	11.2	18.9
1 12	9 0.20	+37 37.8	1.852	2.775	8.6	18.7
1 22	8 49.76	+38 31.6	1.818	2.762	7.1	18.6
2 1	8 38.14	+39 5.4	1.811	2.749	7.7	18.6
2 11	8 26.84	+39 14.7	1.831	2.736	10.1	18.8
2 21	8 17.23	+38 59.4	1.877	2.723	13.0	18.9
3 2	8 10.35	+38 22.9	1.943	2.709	15.8	19.1

328698 2009 SG_{361} 1 28.8 261°.61 6°.6/24.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.58	+34 11.9	1.979	2.784	13.8	20.7
1 2	9 7.61	+35 19.4	1.896	2.773	11.1	20.5
1 12	8 59.70	+36 24.4	1.836	2.763	8.4	20.3
1 22	8 49.54	+37 18.4	1.803	2.752	6.7	20.2
2 1	8 38.25	+37 53.6	1.798	2.741	7.3	20.2
2 11	8 27.29	+38 5.4	1.820	2.731	9.8	20.3
2 21	8 17.99	+37 53.7	1.867	2.720	12.8	20.5
3 2	8 11.37	+37 21.3	1.936	2.708	15.6	20.7

47976 2000 WU_{88} 1 28.8 281°.91 5°.3/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.75	+26 32.8	1.343	2.169	18.0	18.8
1 2	9 8.80	+27 32.1	1.260	2.156	14.1	18.5
1 12	9 1.09	+28 37.4	1.198	2.144	9.7	18.2
1 22	8 50.30	+29 39.0	1.160	2.131	5.9	17.9
2 1	8 37.86	+30 26.0	1.148	2.118	6.3	17.9
2 11	8 25.76	+30 50.4	1.162	2.106	10.5	18.1
2 21	8 15.85	+30 50.1	1.199	2.093	15.3	18.3
3 2	8 9.49	+30 27.5	1.255	2.081	19.5	18.6

194612 2001 XF_{136} 1 28.8 101°.95 1°.2/29.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.52	+13 1.1	1.690	2.474	16.7	21.6
1 2	9 7.85	+13 17.0	1.626	2.498	13.0	21.4
1 12	8 59.53	+13 46.2	1.585	2.521	8.6	21.2
1 22	8 49.34	+14 24.9	1.569	2.544	3.9	21.0
2 1	8 38.43	+15 8.1	1.582	2.566	1.8	20.9
2 11	8 28.13	+15 50.4	1.625	2.587	6.1	21.2
2 21	8 19.57	+16 27.6	1.695	2.608	10.4	21.5
3 2	8 13.55	+16 57.0	1.789	2.627	14.0	21.8

480206 2015 *GP* 1 28.8 302°.96 24°.3/ 6.3 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 33.33	+62 0.8	1.070	1.844	25.0	20.8
1 2	9 32.43	+65 24.7	1.033	1.827	24.3	20.7
1 12	9 21.64	+68 18.1	1.011	1.811	24.4	20.6
1 22	9 0.43	+70 15.7	1.004	1.795	25.2	20.6
2 1	8 32.91	+70 55.6	1.009	1.780	26.5	20.7
2 11	8 7.66	+70 12.5	1.025	1.764	28.1	20.7
2 21	7 51.53	+68 19.9	1.052	1.750	29.9	20.8
3 2	7 46.28	+65 37.8	1.086	1.736	31.6	20.9

210803 2001 FM_{167} 1 28.8 243°.07 15°.7/ 7.7 18

12 23	9 7.14	−16 20.0	1.358	2.035	24.8	20.1
1 2	9 4.05	−17 34.2	1.278	2.031	22.6	19.9
1 12	8 57.77	−18 10.6	1.210	2.026	20.2	19.7
1 22	8 48.88	−18 0.0	1.158	2.021	17.8	19.5
2 1	8 38.55	−16 56.2	1.126	2.016	16.1	19.4
2 11	8 28.37	−15 1.3	1.114	2.011	15.8	19.3
2 21	8 19.94	−12 25.7	1.124	2.005	17.2	19.4
3 2	8 14.47	− 9 25.3	1.155	2.000	19.6	19.5

405209 2003 OV_{2} 1 28.8 227°.82 4°.6/31.6 17

12 23	9 9.72	+ 3 46.5	2.147	2.887	15.0	22.0
1 2	9 4.81	+ 3 36.4	2.039	2.874	12.3	21.8
1 12	8 57.63	+ 3 42.8	1.952	2.859	9.2	21.5
1 22	8 48.65	+ 4 6.1	1.892	2.844	6.1	21.3
2 1	8 38.69	+ 4 45.0	1.860	2.828	4.6	21.2
2 11	8 28.77	+ 5 35.8	1.857	2.811	6.4	21.3
2 21	8 19.93	+ 6 33.7	1.884	2.793	9.7	21.4
3 2	8 13.03	+ 7 33.4	1.936	2.774	13.1	21.6

243258 2007 XD_{17} 1 28.8 251°.76 5°.6/ 1.4 18

12 23	9 5.92	+ 0 32.6	2.550	3.270	13.3	19.9
1 2	9 1.44	− 0 11.6	2.449	3.263	11.2	19.7
1 12	8 55.16	− 0 42.2	2.371	3.256	8.8	19.5
1 22	8 47.54	− 0 57.7	2.318	3.249	6.6	19.4
2 1	8 39.24	− 0 57.8	2.294	3.242	5.6	19.3
2 11	8 31.08	− 0 44.0	2.298	3.235	6.5	19.4
2 21	8 23.82	− 0 19.0	2.331	3.228	8.7	19.5
3 2	8 18.11	+ 0 13.3	2.389	3.220	11.2	19.6

54912 2001 OX_{86} 1 28.8 119°.68 2°.3/30.7 18

12 23	9 4.27	+ 7 55.6	2.460	3.220	12.7	19.3
1 2	9 0.19	+ 8 19.7	2.373	3.226	10.1	19.2
1 12	8 54.33	+ 8 57.2	2.309	3.233	7.1	19.0
1 22	8 47.18	+ 9 46.4	2.273	3.239	3.9	18.8
2 1	8 39.43	+10 43.8	2.266	3.246	2.3	18.7
2 11	8 31.89	+11 45.3	2.291	3.252	4.7	18.9
2 21	8 25.32	+12 46.3	2.344	3.258	7.8	19.1
3 2	8 20.35	+13 43.3	2.423	3.263	10.7	19.3

268167 2004 VB_{55} 1 28.8 104°.93 0°.2/28.7 18

12 23	9 8.53	+16 59.2	2.117	2.907	13.6	21.5
1 2	9 3.71	+17 20.1	2.041	2.918	10.4	21.3
1 12	8 56.72	+17 49.2	1.989	2.930	6.8	21.1
1 22	8 48.18	+18 22.8	1.964	2.941	2.8	20.9
2 1	8 38.98	+18 56.7	1.969	2.952	1.4	20.8
2 11	8 30.14	+19 27.1	2.003	2.963	5.4	21.1
2 21	8 22.61	+19 50.9	2.066	2.974	9.1	21.4
3 2	8 17.08	+20 6.9	2.153	2.984	12.2	21.6

168279 2007 PV_{32} 1 28.8 82°.55 1°.0/29.4 18

12 23	9 12.43	+13 39.1	1.595	2.387	17.2	20.4
1 2	9 7.14	+13 56.5	1.535	2.412	13.3	20.2
1 12	8 59.12	+14 27.3	1.498	2.436	8.8	20.0
1 22	8 49.19	+15 7.4	1.485	2.461	3.9	19.8
2 1	8 38.54	+15 51.3	1.501	2.485	1.7	19.7
2 11	8 28.56	+16 33.4	1.546	2.508	6.3	20.0
2 21	8 20.39	+17 9.4	1.617	2.532	10.7	20.3
3 2	8 14.84	+17 37.0	1.712	2.554	14.3	20.6

120599 1995 UN_{35} 1 28.8 39°.44 9°.2/23.8 18

12 23	9 13.21	+37 50.5	1.534	2.351	16.6	19.7
1 2	9 8.59	+39 20.1	1.490	2.369	13.5	19.5
1 12	9 0.46	+40 40.7	1.468	2.387	10.7	19.4
1 22	8 49.82	+41 41.2	1.470	2.406	9.2	19.4
2 1	8 38.26	+42 12.8	1.497	2.425	9.9	19.4
2 11	8 27.60	+42 12.5	1.549	2.445	12.2	19.6
2 21	8 19.35	+41 43.2	1.623	2.466	14.9	19.8
3 2	8 14.41	+40 50.8	1.717	2.487	17.4	20.1

8669 1991 NS_{1} 1 28.8 191°.87 2°.4/30.4 18

12 23	9 9.03	+ 9 4.5	2.093	2.858	14.5	18.2
1 2	9 4.23	+ 9 18.1	1.999	2.856	11.6	18.0
1 12	8 57.19	+ 9 46.2	1.928	2.854	8.1	17.8
1 22	8 48.45	+10 27.0	1.883	2.852	4.3	17.5
2 1	8 38.85	+11 17.1	1.869	2.849	2.5	17.4
2 11	8 29.46	+12 11.7	1.884	2.845	5.5	17.6
2 21	8 21.25	+13 6.0	1.927	2.840	9.3	17.8
3 2	8 15.03	+13 55.9	1.997	2.835	12.7	18.0

250146 2002 RE_{147} 1 28.8 133°.43 1°.8/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.66	+21 37.9	2.043	2.836	13.9	21.8
1 2	9 6.99	+22 7.0	1.968	2.848	10.6	21.6
1 12	8 58.91	+22 40.9	1.918	2.860	6.9	21.4
1 22	8 49.11	+23 14.8	1.895	2.872	3.1	21.2
2 1	8 38.58	+23 43.7	1.903	2.882	2.5	21.2
2 11	8 28.50	+24 3.7	1.940	2.893	6.2	21.4
2 21	8 19.90	+24 13.0	2.005	2.902	9.9	21.7
3 2	8 13.57	+24 11.8	2.095	2.912	13.0	21.9

242393 2004 FO_{18} 1 28.8 177°.20 2°.0/27.2 17

12 23	9 6.83	+23 53.3	2.829	3.620	10.5	21.3
1 2	9 2.02	+24 26.0	2.742	3.621	8.0	21.1
1 12	8 55.46	+25 1.2	2.681	3.622	5.3	21.0
1 22	8 47.65	+25 35.1	2.649	3.623	2.6	20.8
2 1	8 39.25	+26 4.2	2.648	3.623	2.6	20.8
2 11	8 31.09	+26 25.4	2.677	3.623	5.1	21.0
2 21	8 23.88	+26 37.2	2.735	3.623	7.9	21.1
3 2	8 18.24	+26 39.4	2.819	3.622	10.4	21.3

98606 2000 WV_{71} 1 28.8 268°.70 0°.4/29.0 18

12 23	9 11.54	+16 49.5	1.612	2.413	16.7	19.5
1 2	9 6.89	+16 45.2	1.524	2.406	13.0	19.3
1 12	8 59.29	+16 50.2	1.457	2.399	8.6	19.0
1 22	8 49.42	+17 1.5	1.416	2.393	3.7	18.7
2 1	8 38.41	+17 15.0	1.402	2.386	1.6	18.5
2 11	8 27.72	+17 26.4	1.417	2.380	6.8	18.8
2 21	8 18.73	+17 33.0	1.458	2.373	11.6	19.1
3 2	8 12.44	+17 33.0	1.521	2.366	15.7	19.3

179538 2002 CG_{241} 1 28.8 266°.88 3°.6/26.4 17

12 23	9 10.13	+30 10.0	2.692	3.484	10.9	20.2
1 2	9 4.74	+30 31.1	2.598	3.474	8.5	20.1
1 12	8 57.33	+30 50.3	2.529	3.463	5.9	19.9
1 22	8 48.45	+31 3.3	2.489	3.453	3.9	19.7
2 1	8 38.90	+31 6.4	2.479	3.442	4.0	19.7
2 11	8 29.62	+30 57.2	2.499	3.431	6.3	19.9
2 21	8 21.47	+30 35.5	2.547	3.421	9.0	20.0
3 2	8 15.15	+30 2.6	2.620	3.410	11.5	20.2

372500 2009 SH_{266} 1 28.8 198°.56 1°.7/29.8 18

12 23	9 7.98	+12 18.6	2.103	2.881	14.0	21.4
1 2	9 3.40	+12 20.7	2.013	2.880	11.0	21.2
1 12	8 56.63	+12 33.9	1.945	2.878	7.5	21.0
1 22	8 48.21	+12 56.2	1.904	2.877	3.7	20.7
2 1	8 39.01	+13 24.6	1.893	2.875	1.9	20.6
2 11	8 30.05	+13 55.4	1.911	2.873	5.4	20.8
2 21	8 22.30	+14 24.9	1.957	2.870	9.2	21.1
3 2	8 16.52	+14 50.5	2.028	2.868	12.5	21.3

74051 1998 HP_{150} 1 28.8 234°.27 0°.6/28.3 18

12 23	9 2.26	+19 1.9	3.522	4.304	8.8	20.0
1 2	8 58.23	+19 26.5	3.422	4.296	6.7	19.8
1 12	8 52.88	+19 55.5	3.348	4.288	4.3	19.7
1 22	8 46.57	+20 26.4	3.303	4.280	1.8	19.5
2 1	8 39.80	+20 56.7	3.290	4.272	1.2	19.4
2 11	8 33.14	+21 24.1	3.308	4.263	3.7	19.6
2 21	8 27.14	+21 46.7	3.355	4.255	6.2	19.8
3 2	8 22.27	+22 3.4	3.430	4.246	8.4	19.9

406833 2008 YA_{130} 1 28.8 272°.94 0°.7/28.5 17

12 23	9 10.27	+18 5.7	1.620	2.426	16.4	21.7
1 2	9 6.09	+18 27.0	1.525	2.411	12.8	21.4
1 12	8 58.91	+18 58.9	1.451	2.396	8.4	21.1
1 22	8 49.34	+19 37.1	1.403	2.381	3.5	20.8
2 1	8 38.45	+20 15.6	1.382	2.366	2.0	20.6
2 11	8 27.74	+20 48.6	1.390	2.350	7.2	20.9
2 21	8 18.62	+21 11.8	1.423	2.335	12.1	21.1
3 2	8 12.21	+21 23.7	1.479	2.319	16.3	21.4

249426 2009 EZ_{3} 1 28.8 189°.27 0°.4/29.1 18

12 23	9 9.09	+14 3.5	1.941	2.727	14.8	21.0
1 2	9 4.51	+14 39.5	1.853	2.727	11.5	20.8
1 12	8 57.50	+15 28.5	1.787	2.726	7.6	20.6
1 22	8 48.64	+16 26.5	1.748	2.724	3.3	20.3
2 1	8 38.85	+17 28.3	1.739	2.722	1.4	20.2
2 11	8 29.29	+18 27.9	1.759	2.720	5.9	20.5
2 21	8 21.05	+19 20.5	1.807	2.717	10.0	20.7
3 2	8 15.00	+20 3.0	1.880	2.714	13.6	20.9

357592 2004 VX_{76} 1 28.8 75°.30 0°.2/28.7 18

12 23	9 11.61	+15 36.8	1.469	2.274	17.8	20.9
1 2	9 6.83	+16 13.1	1.411	2.295	13.7	20.7
1 12	8 59.10	+17 2.7	1.373	2.317	8.9	20.5
1 22	8 49.27	+18 0.0	1.361	2.339	3.6	20.3
2 1	8 38.61	+18 57.8	1.376	2.360	1.8	20.2
2 11	8 28.62	+19 49.2	1.420	2.381	6.9	20.6
2 21	8 20.57	+20 29.9	1.489	2.402	11.5	20.9
3 2	8 15.33	+20 57.8	1.581	2.423	15.3	21.2

334620 2002 UU_{78} 1 28.8 42°.18 4°.9/ 1.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.94	+ 3 11.1	2.160	2.907	14.7	20.9
1 2	9 0.95	+ 2 49.2	2.074	2.911	12.1	20.7
1 12	8 54.96	+ 2 43.2	2.010	2.915	9.1	20.6
1 22	8 47.52	+ 2 53.7	1.971	2.920	6.3	20.4
2 1	8 39.39	+ 3 19.3	1.960	2.924	4.9	20.3
2 11	8 31.51	+ 3 57.0	1.977	2.929	6.2	20.4
2 21	8 24.74	+ 4 42.3	2.022	2.933	9.0	20.6
3 2	8 19.76	+ 5 30.6	2.092	2.938	12.0	20.8

86965 2000 JD_{6} 1 28.8 264°.92 4°.0/25.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.33	+20 35.4	1.998	2.793	14.1	19.1
1 2	9 6.78	+22 58.6	1.892	2.774	10.9	18.9
1 12	8 59.41	+25 39.2	1.813	2.755	7.2	18.6
1 22	8 49.64	+28 27.3	1.764	2.735	4.2	18.4
2 1	8 38.29	+31 10.3	1.749	2.715	5.1	18.4
2 11	8 26.65	+33 35.9	1.766	2.694	8.8	18.6
2 21	8 16.10	+35 36.1	1.812	2.673	12.7	18.8
3 2	8 7.88	+37 8.1	1.882	2.652	16.1	19.0

170339 2003 SZ_{125} 1 28.8 146°.44 1°.1/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.57	+18 35.8	2.004	2.795	14.2	21.2
1 2	9 6.26	+19 16.4	1.927	2.805	10.9	21.0
1 12	8 58.53	+20 5.4	1.873	2.815	7.1	20.8
1 22	8 49.02	+20 57.8	1.846	2.823	2.9	20.6
2 1	8 38.71	+21 47.9	1.850	2.832	2.0	20.5
2 11	8 28.76	+22 30.7	1.883	2.839	6.1	20.8
2 21	8 20.24	+23 3.0	1.945	2.846	9.9	21.1
3 2	8 13.95	+23 23.6	2.031	2.852	13.2	21.3

197434 2003 YG_{81} 1 28.8 39°.86 4°.5/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.56	+27 42.8	2.018	2.829	13.4	19.6
1 2	9 3.40	+28 52.8	1.946	2.834	10.3	19.4
1 12	8 56.77	+30 4.8	1.899	2.839	7.1	19.2
1 22	8 48.32	+31 11.9	1.879	2.844	4.7	19.0
2 1	8 39.02	+32 7.0	1.887	2.850	5.2	19.1
2 11	8 30.08	+32 45.1	1.924	2.855	8.0	19.3
2 21	8 22.57	+33 4.6	1.986	2.861	11.1	19.5
3 2	8 17.32	+33 6.4	2.072	2.867	13.9	19.7

491164 2011 SN_{253} 1 28.8 84°.39 1°.0/28.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.65	+17 36.2	1.578	2.380	16.9	22.1
1 2	9 7.46	+18 18.7	1.520	2.404	12.9	21.9
1 12	8 59.42	+19 11.9	1.484	2.428	8.3	21.7
1 22	8 49.38	+20 9.5	1.473	2.451	3.4	21.4
2 1	8 38.58	+21 4.6	1.492	2.474	2.1	21.4
2 11	8 28.43	+21 50.9	1.538	2.497	6.8	21.7
2 21	8 20.16	+22 25.0	1.611	2.519	11.2	22.0
3 2	8 14.60	+22 45.8	1.707	2.541	14.8	22.3

5811 Keck 1 28.8 154°.92 4°.2/31.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.65	+ 2 51.2	2.589	3.313	13.0	18.3
1 2	9 3.40	+ 2 39.7	2.500	3.324	10.7	18.2
1 12	8 56.37	+ 2 42.2	2.434	3.333	8.0	18.0
1 22	8 48.06	+ 2 58.6	2.396	3.342	5.5	17.9
2 1	8 39.17	+ 3 27.7	2.387	3.350	4.2	17.8
2 11	8 30.52	+ 4 6.5	2.408	3.357	5.5	17.9
2 21	8 22.84	+ 4 51.3	2.459	3.363	8.0	18.1
3 2	8 16.76	+ 5 38.2	2.537	3.369	10.6	18.2

105279 2000 QQ_{33} 1 28.8 166°.12 17°.1/20.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 33.38	+50 56.3	1.235	2.023	21.5	19.4
1 2	9 27.09	+53 13.7	1.190	2.026	19.2	19.3
1 12	9 14.24	+55 9.7	1.164	2.028	17.6	19.2
1 22	8 56.03	+56 23.5	1.158	2.030	17.1	19.2
2 1	8 35.51	+56 39.2	1.172	2.032	17.9	19.2
2 11	8 16.83	+55 54.4	1.205	2.033	19.8	19.3
2 21	8 3.12	+54 19.7	1.256	2.033	22.1	19.5
3 2	7 55.71	+52 10.8	1.322	2.033	24.3	19.7

171487 1996 RA_{12} 1 28.8 89°.80 0°.2/28.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.96	+16 45.5	2.331	3.118	12.6	20.8
1 2	9 2.32	+17 13.8	2.259	3.134	9.6	20.6
1 12	8 55.74	+17 49.7	2.211	3.151	6.2	20.4
1 22	8 47.81	+18 29.9	2.190	3.167	2.6	20.2
2 1	8 39.31	+19 10.2	2.200	3.184	1.3	20.1
2 11	8 31.16	+19 46.8	2.240	3.200	4.9	20.4
2 21	8 24.16	+20 17.0	2.309	3.215	8.3	20.6
3 2	8 18.96	+20 39.2	2.403	3.231	11.2	20.8

522451 2016 CA_{320} 1 28.8 358°.80 8°.2/22.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.32	+35 48.3	1.756	2.572	14.8	20.7
1 2	9 5.51	+37 29.5	1.690	2.571	12.0	20.5
1 12	8 58.56	+39 7.3	1.647	2.570	9.5	20.4
1 22	8 49.19	+40 31.0	1.630	2.569	8.2	20.3
2 1	8 38.64	+41 31.1	1.640	2.569	9.1	20.3
2 11	8 28.50	+42 2.1	1.675	2.570	11.5	20.5
2 21	8 20.23	+42 4.0	1.732	2.571	14.3	20.7
3 2	8 14.87	+41 40.6	1.810	2.572	16.9	20.8

51173 2000 HD_{69} 1 28.8 24°.44 6°.3/ 1.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.73	+ 2 9.4	1.358	2.139	20.2	18.1
1 2	9 1.03	+ 1 56.8	1.291	2.148	16.7	17.9
1 12	8 55.50	+ 2 10.9	1.242	2.158	12.6	17.7
1 22	8 47.87	+ 2 52.0	1.215	2.169	8.5	17.5
2 1	8 39.28	+ 3 57.0	1.212	2.181	6.3	17.4
2 11	8 31.17	+ 5 18.5	1.235	2.194	8.1	17.5
2 21	8 24.77	+ 6 47.1	1.283	2.208	11.9	17.8
3 2	8 21.02	+ 8 13.8	1.353	2.223	15.7	18.0

419069 2009 SB_{51} 1 28.8 59°.43 1°.3/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.92	+19 43.2	1.790	2.595	15.1	21.8
1 2	9 4.49	+20 11.4	1.716	2.602	11.6	21.6
1 12	8 57.49	+20 47.2	1.666	2.611	7.5	21.3
1 22	8 48.63	+21 25.8	1.641	2.619	3.1	21.1
2 1	8 38.94	+22 1.5	1.645	2.627	2.2	21.0
2 11	8 29.69	+22 29.7	1.678	2.635	6.5	21.3
2 21	8 22.00	+22 47.7	1.737	2.644	10.5	21.6
3 2	8 16.69	+22 54.5	1.820	2.653	14.0	21.8

302087 2000 YQ_{31} 1 28.8 29°.65 1°.4/28.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.30	+18 3.6	1.229	2.058	19.2	19.7
1 2	9 4.19	+18 45.2	1.169	2.068	14.7	19.4
1 12	8 57.75	+19 40.2	1.130	2.080	9.5	19.2
1 22	8 48.83	+20 41.7	1.113	2.092	3.9	18.9
2 1	8 38.86	+21 40.9	1.123	2.105	2.7	18.9
2 11	8 29.55	+22 29.8	1.157	2.119	8.1	19.2
2 21	8 22.39	+23 3.7	1.216	2.134	13.1	19.5
3 2	8 18.36	+23 21.3	1.295	2.149	17.3	19.8

77987 2002 JY_{30} 1 28.8 177°.45 1°.6/28.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.12	+19 20.3	1.644	2.444	16.4	20.1
1 2	9 8.87	+20 0.8	1.563	2.446	12.7	19.9
1 12	9 0.59	+20 51.3	1.504	2.448	8.3	19.6
1 22	8 50.00	+21 45.7	1.471	2.449	3.5	19.3
2 1	8 38.28	+22 36.8	1.468	2.449	2.6	19.3
2 11	8 26.94	+23 18.1	1.492	2.448	7.3	19.5
2 21	8 17.37	+23 46.1	1.544	2.447	11.9	19.8
3 2	8 10.58	+24 0.1	1.618	2.445	15.8	20.0

462314 2008 GR_{130} 1 28.8 285°.56 7°.4/ 2.4 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.28	− 2 9.7	1.869	2.600	17.2	22.2
1 2	9 1.70	− 2 40.4	1.771	2.589	14.6	22.0
1 12	8 55.76	− 2 49.2	1.694	2.579	11.7	21.8
1 22	8 47.99	− 2 33.7	1.639	2.569	9.0	21.6
2 1	8 39.22	− 1 53.6	1.610	2.559	7.4	21.5
2 11	8 30.57	− 0 52.4	1.608	2.549	8.4	21.5
2 21	8 23.12	+ 0 23.8	1.632	2.539	11.1	21.7
3 2	8 17.76	+ 1 47.5	1.680	2.529	14.2	21.8

330001 2005 TA_{117} 1 28.8 24°.06 11°.3/ 6.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.50	−13 22.0	1.881	2.546	19.1	20.8
1 2	9 1.04	−14 12.0	1.798	2.547	17.1	20.6
1 12	8 55.27	−14 33.5	1.731	2.549	14.9	20.5
1 22	8 47.76	−14 22.0	1.683	2.551	12.9	20.3
2 1	8 39.36	−13 35.5	1.659	2.553	11.5	20.2
2 11	8 31.19	−12 16.8	1.658	2.555	11.5	20.2
2 21	8 24.27	−10 32.7	1.682	2.558	12.7	20.3
3 2	8 19.44	− 8 32.8	1.730	2.560	14.8	20.5

427320 2014 WV_{293} 1 28.8 305°.04 1°.9/27.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.94	+17 54.4	1.797	2.604	15.0	20.4
1 2	9 2.47	+19 12.1	1.708	2.596	11.5	20.1
1 12	8 56.41	+20 43.7	1.642	2.588	7.5	19.9
1 22	8 48.30	+22 22.7	1.603	2.581	3.2	19.6
2 1	8 39.09	+24 0.6	1.593	2.573	2.9	19.6
2 11	8 30.02	+25 28.9	1.613	2.566	7.2	19.8
2 21	8 22.30	+26 41.5	1.659	2.559	11.4	20.0
3 2	8 16.92	+27 35.7	1.728	2.552	15.1	20.3

240031 2001 UA_{93} 1 28.8 172°.26 1°.8/30.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.54	+10 34.4	2.810	3.570	11.3	21.6
1 2	9 0.97	+10 38.9	2.716	3.572	8.9	21.4
1 12	8 54.79	+10 52.7	2.648	3.574	6.2	21.3
1 22	8 47.44	+11 14.5	2.607	3.576	3.3	21.1
2 1	8 39.54	+11 41.9	2.597	3.577	1.9	21.0
2 11	8 31.83	+12 12.4	2.618	3.578	4.2	21.1
2 21	8 24.98	+12 43.0	2.668	3.579	7.1	21.3
3 2	8 19.57	+13 11.5	2.745	3.579	9.8	21.5

502768 2015 DL_{81} 1 28.8 183°.09 0°.5/29.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.78	+13 29.3	2.544	3.321	11.9	21.8
1 2	9 0.64	+14 8.1	2.452	3.321	9.2	21.6
1 12	8 54.71	+14 57.3	2.385	3.321	6.1	21.4
1 22	8 47.45	+15 53.8	2.346	3.321	2.7	21.1
2 1	8 39.53	+16 53.8	2.337	3.321	1.1	21.0
2 11	8 31.78	+17 52.6	2.359	3.320	4.6	21.3
2 21	8 24.97	+18 46.6	2.411	3.319	7.9	21.5
3 2	8 19.74	+19 32.9	2.488	3.318	10.8	21.7

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
400009 2006 JC_{28}			1 28.8 168°.92		1°.9/27.6 18	
	h m	° ′			°	m
12 23	9 12.11	+21 8.9	2.099	2.891	13.6	22.1
1 2	9 6.68	+21 53.2	2.017	2.896	10.4	21.9
1 12	8 58.84	+22 43.9	1.958	2.900	6.8	21.7
1 22	8 49.20	+23 35.5	1.928	2.904	3.1	21.5
2 1	8 38.72	+24 22.5	1.927	2.906	2.7	21.4
2 11	8 28.56	+24 59.9	1.957	2.908	6.3	21.7
2 21	8 19.76	+25 25.2	2.015	2.909	10.0	21.9
3 2	8 13.16	+25 37.8	2.098	2.910	13.2	22.1
434020 2001 RG_{142}			1 28.9 148°.21		15°.7/24.9 16	
12 23	9 42.63	+49 14.1	1.188	1.971	22.4	20.9
1 2	9 33.66	+50 39.2	1.137	1.977	19.6	20.7
1 12	9 18.01	+51 41.6	1.104	1.983	17.1	20.6
1 22	8 57.36	+52 0.5	1.091	1.989	15.7	20.5
2 1	8 35.16	+51 21.3	1.100	1.994	16.1	20.6
2 11	8 15.51	+49 44.5	1.132	1.998	18.1	20.7
2 21	8 1.15	+47 24.1	1.183	2.001	20.8	20.9
3 2	7 53.06	+44 38.5	1.253	2.004	23.5	21.1
204266 2004 FC_{33}			1 28.9 268°.56		0°.9/28.2 17	
12 23	9 7.75	+20 21.3	2.560	3.348	11.5	20.5
1 2	9 3.04	+20 35.5	2.452	3.329	8.9	20.3
1 12	8 56.36	+20 54.2	2.369	3.311	5.8	20.0
1 22	8 48.17	+21 14.5	2.315	3.292	2.5	19.8
2 1	8 39.21	+21 33.1	2.290	3.272	1.7	19.7
2 11	8 30.36	+21 46.7	2.297	3.253	5.1	19.9
2 21	8 22.49	+21 53.7	2.332	3.233	8.5	20.1
3 2	8 16.31	+21 53.0	2.393	3.213	11.5	20.2
83061 2001 QQ_{210}			1 28.9 10°.30		7°.2/ 2.9 18	
12 23	9 1.75	− 2 27.4	1.806	2.546	17.4	18.3
1 2	8 58.92	− 2 47.1	1.725	2.548	14.7	18.1
1 12	8 53.88	− 2 43.0	1.663	2.552	11.7	18.0
1 22	8 47.17	− 2 13.6	1.624	2.556	8.9	17.8
2 1	8 39.68	− 1 19.9	1.610	2.561	7.2	17.7
2 11	8 32.46	− 0 6.5	1.623	2.567	8.0	17.8
2 21	8 26.49	+ 1 19.3	1.661	2.574	10.5	17.9
3 2	8 22.54	+ 2 49.7	1.724	2.582	13.5	18.1
176220 2001 QX_{91}			1 28.9 205°.30		3°.1/27.1 18	
12 23	9 14.14	+26 24.5	2.168	2.961	13.2	20.6
1 2	9 8.26	+26 50.0	2.078	2.957	10.2	20.4
1 12	8 59.89	+27 16.4	2.013	2.952	6.9	20.2
1 22	8 49.66	+27 38.7	1.976	2.947	3.8	20.0
2 1	8 38.55	+27 51.7	1.968	2.941	3.7	20.0
2 11	8 27.79	+27 52.3	1.991	2.935	6.8	20.1
2 21	8 18.46	+27 39.6	2.041	2.928	10.3	20.3
3 2	8 11.41	+27 15.1	2.116	2.921	13.4	20.5
370034 2000 SB_{3}			1 28.9 208°.11		8°.6/ 5.9 17	
12 23	9 6.74	−15 11.3	2.925	3.530	13.9	22.2
1 2	9 1.97	−15 38.5	2.817	3.522	12.5	22.0
1 12	8 55.51	−15 45.1	2.728	3.513	11.0	21.9
1 22	8 47.79	−15 28.5	2.662	3.503	9.6	21.8
2 1	8 39.40	−14 47.5	2.621	3.493	8.7	21.7
2 11	8 31.09	−13 43.7	2.607	3.482	8.7	21.7
2 21	8 23.57	−12 21.0	2.621	3.470	9.6	21.7
3 2	8 17.45	−10 45.0	2.660	3.457	11.2	21.8
367809 2011 AA_{46}			1 28.9 57°.83		0°.9/29.4 18	
12 23	9 8.12	+13 25.0	1.685	2.480	16.3	20.8
1 2	9 3.83	+13 50.0	1.622	2.500	12.6	20.6
1 12	8 57.03	+14 28.5	1.581	2.521	8.3	20.4
1 22	8 48.44	+15 16.4	1.565	2.541	3.7	20.1
2 1	8 39.14	+16 8.4	1.578	2.562	1.5	20.0
2 11	8 30.37	+16 58.5	1.619	2.583	6.0	20.4
2 21	8 23.19	+17 42.3	1.687	2.603	10.2	20.7
3 2	8 18.37	+18 16.9	1.779	2.624	13.7	20.9
9178 Momoyo			1 28.9 68°.30		1°.2/28.1 18	
12 23	9 8.21	+19 46.4	1.986	2.786	14.0	18.3
1 2	9 3.72	+20 14.1	1.910	2.794	10.7	18.1
1 12	8 56.90	+20 48.5	1.858	2.802	6.9	17.9
1 22	8 48.40	+21 25.2	1.832	2.810	2.9	17.7
2 1	8 39.15	+21 59.5	1.836	2.818	2.1	17.6
2 11	8 30.29	+22 26.9	1.869	2.826	6.0	17.9
2 21	8 22.81	+22 45.0	1.929	2.834	9.8	18.1
3 2	8 17.48	+22 52.9	2.013	2.842	13.0	18.4
425252 2009 WE_{65}			1 28.9 105°.08		3°.7/31.4 18	
12 23	9 8.24	+ 5 41.7	2.148	2.899	14.6	22.1
1 2	9 3.39	+ 5 36.3	2.073	2.917	11.8	21.9
1 12	8 56.51	+ 5 46.0	2.020	2.934	8.5	21.7
1 22	8 48.19	+ 6 10.0	1.993	2.951	5.3	21.6
2 1	8 39.26	+ 6 46.0	1.995	2.968	3.7	21.5
2 11	8 30.69	+ 7 29.8	2.027	2.984	5.6	21.7
2 21	8 23.33	+ 8 17.2	2.087	2.999	8.7	21.9
3 2	8 17.85	+ 9 3.9	2.173	3.015	11.7	22.1

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
128452 2004 NJ_{25}			1 28.9 122°.83		1°.8/27.9 18	
	h m	° ′			°	m
12 23	9 14.96	+21 13.5	1.737	2.535	15.7	20.6
1 2	9 9.16	+21 40.1	1.667	2.549	12.1	20.4
1 12	9 0.56	+22 12.7	1.620	2.563	7.8	20.1
1 22	8 49.93	+22 45.7	1.600	2.576	3.4	19.9
2 1	8 38.47	+23 13.3	1.608	2.589	2.7	19.9
2 11	8 27.58	+23 31.1	1.646	2.601	6.9	20.2
2 21	8 18.49	+23 37.3	1.711	2.613	11.0	20.4
3 2	8 12.05	+23 32.3	1.800	2.624	14.5	20.7
93322 2000 SA_{221}			1 28.9 341°.36		4°.4/25.7 18	
12 23	9 7.02	+24 59.9	1.753	2.570	14.8	19.1
1 2	9 3.45	+26 26.2	1.675	2.567	11.4	18.9
1 12	8 57.12	+27 59.5	1.620	2.564	7.7	18.6
1 22	8 48.62	+29 31.3	1.591	2.561	4.8	18.5
2 1	8 39.02	+30 52.4	1.591	2.559	5.3	18.5
2 11	8 29.68	+31 55.4	1.619	2.556	8.7	18.7
2 21	8 21.89	+32 36.8	1.672	2.554	12.4	18.9
3 2	8 16.63	+32 56.7	1.747	2.553	15.7	19.1
174481 2003 AO_{56}			1 28.9 91°.19		1°.1/28.2 18	
12 23	9 10.33	+21 45.7	2.374	3.164	12.3	20.2
1 2	9 4.91	+21 45.4	2.293	3.171	9.4	20.0
1 12	8 57.46	+21 47.8	2.236	3.178	6.1	19.8
1 22	8 48.58	+21 50.0	2.208	3.185	2.6	19.6
2 1	8 39.11	+21 48.9	2.210	3.192	1.8	19.6
2 11	8 30.02	+21 42.4	2.243	3.199	5.2	19.8
2 21	8 22.16	+21 29.6	2.304	3.206	8.6	20.0
3 2	8 16.21	+21 10.6	2.391	3.213	11.5	20.2
123721 2000 YZ_{133}			1 28.9 87°.28		3°.8/25.7 18	
12 23	9 9.99	+22 40.7	1.990	2.792	13.9	19.4
1 2	9 5.23	+24 35.6	1.927	2.812	10.6	19.2
1 12	8 57.99	+26 37.8	1.889	2.831	7.0	19.1
1 22	8 48.90	+28 38.4	1.880	2.850	4.1	18.9
2 1	8 38.94	+30 27.9	1.903	2.870	4.6	19.0
2 11	8 29.31	+31 58.9	1.955	2.888	7.7	19.2
2 21	8 21.11	+33 7.8	2.035	2.907	11.0	19.4
3 2	8 15.19	+33 54.8	2.139	2.925	13.8	19.7
390576 2001 OJ_{62}			1 28.9 163°.84		0°.6/29.2 18	
12 23	9 12.66	+14 19.0	1.872	2.654	15.4	22.1
1 2	9 7.28	+14 41.8	1.789	2.661	12.0	21.9
1 12	8 59.33	+15 16.4	1.729	2.666	7.9	21.7
1 22	8 49.46	+15 59.3	1.695	2.671	3.5	21.4
2 1	8 38.68	+16 45.5	1.691	2.675	1.5	21.3
2 11	8 28.24	+17 29.7	1.717	2.678	6.0	21.6
2 21	8 19.28	+18 7.9	1.771	2.680	10.2	21.8
3 2	8 12.68	+18 37.5	1.849	2.682	13.8	22.1
54575 2000 QY_{157}			1 28.9 84°.76		4°.3/ 1.4 18	
12 23	9 3.96	+ 2 8.2	2.423	3.159	13.5	19.6
1 2	8 59.99	+ 2 10.1	2.340	3.170	11.1	19.4
1 12	8 54.26	+ 2 28.1	2.279	3.180	8.4	19.3
1 22	8 47.27	+ 3 2.0	2.243	3.191	5.7	19.1
2 1	8 39.72	+ 3 49.6	2.236	3.201	4.3	19.1
2 11	8 32.40	+ 4 47.1	2.259	3.211	5.5	19.1
2 21	8 26.06	+ 5 49.9	2.310	3.221	8.1	19.3
3 2	8 21.30	+ 6 53.4	2.388	3.231	10.7	19.5
209011 2003 BO_{73}			1 28.9 11°.70		2°.3/27.3 18	
12 23	9 5.75	+22 14.2	2.054	2.862	13.3	20.0
1 2	9 1.89	+22 58.5	1.975	2.863	10.2	19.8
1 12	8 55.76	+23 48.4	1.920	2.865	6.6	19.6
1 22	8 47.97	+24 38.9	1.892	2.867	3.2	19.4
2 1	8 39.39	+25 24.2	1.892	2.870	3.0	19.4
2 11	8 31.12	+25 59.8	1.922	2.873	6.4	19.6
2 21	8 24.14	+26 23.1	1.978	2.876	10.0	19.8
3 2	8 19.22	+26 33.4	2.058	2.879	13.1	20.0
381997 2010 LS_{103}			1 28.9 332°.78		1°.7/30.3 18	
12 23	9 3.88	+ 9 16.6	2.146	2.921	13.9	20.3
1 2	9 0.31	+ 9 55.0	2.054	2.918	11.0	20.1
1 12	8 54.69	+10 49.2	1.985	2.916	7.6	19.9
1 22	8 47.53	+11 56.4	1.942	2.913	3.8	19.6
2 1	8 39.59	+13 12.3	1.929	2.911	1.9	19.5
2 11	8 31.82	+14 30.8	1.946	2.909	5.2	19.7
2 21	8 25.11	+15 46.4	1.991	2.907	8.9	19.9
3 2	8 20.22	+16 54.6	2.062	2.905	12.2	20.1
165767 2001 QC_{241}			1 28.9 143°.55		2°.7/27.1 18	
12 23	9 9.64	+26 5.7	2.503	3.297	11.6	20.4
1 2	9 4.42	+26 31.1	2.422	3.302	8.9	20.2
1 12	8 57.17	+26 57.3	2.366	3.306	5.9	20.0
1 22	8 48.49	+27 20.2	2.339	3.310	3.2	19.9
2 1	8 39.19	+27 35.7	2.341	3.314	3.2	19.9
2 11	8 30.22	+27 41.2	2.374	3.318	5.9	20.0
2 21	8 22.44	+27 35.8	2.435	3.322	8.8	20.2
3 2	8 16.52	+27 20.1	2.521	3.325	11.5	20.4

357192 2002 EE_{163} 1 28.9 274°.94 0°.8/29.3 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.42	+13 28.0	1.683	2.478	16.3	21.8
1 2	9 4.63	+13 56.0	1.580	2.459	12.9	21.5
1 12	8 58.02	+14 39.8	1.499	2.439	8.7	21.2
1 22	8 49.10	+15 36.3	1.442	2.418	3.9	20.9
2 1	8 38.83	+16 40.1	1.414	2.398	1.6	20.7
2 11	8 28.58	+17 44.1	1.414	2.377	6.7	20.9
2 21	8 19.70	+18 42.1	1.440	2.356	11.6	21.2
3 2	8 13.33	+19 29.8	1.490	2.335	16.0	21.4

495409 2014 QQ_{438} 1 28.9 129°.29 2°.8/27.0 18

12 23	9 10.58	+23 29.0	2.069	2.868	13.5	21.6
1 2	9 5.54	+24 20.4	1.995	2.878	10.3	21.5
1 12	8 58.11	+25 16.4	1.946	2.888	6.8	21.3
1 22	8 48.94	+26 11.0	1.924	2.898	3.5	21.1
2 1	8 38.99	+26 58.1	1.932	2.907	3.5	21.1
2 11	8 29.42	+27 33.3	1.969	2.915	6.7	21.3
2 21	8 21.27	+27 54.2	2.034	2.924	10.2	21.5
3 2	8 15.32	+28 1.2	2.123	2.932	13.2	21.7

343343 2010 CJ_{48} 1 28.9 327°.43 5°.3/ 1.4 17

12 23	9 3.60	+ 1 53.0	2.155	2.899	14.8	20.7
1 2	9 0.07	+ 1 34.0	2.059	2.892	12.3	20.5
1 12	8 54.52	+ 1 32.0	1.985	2.886	9.4	20.3
1 22	8 47.47	+ 1 47.9	1.935	2.880	6.7	20.1
2 1	8 39.65	+ 2 20.8	1.913	2.874	5.3	20.0
2 11	8 31.98	+ 3 7.3	1.919	2.869	6.5	20.1
2 21	8 25.36	+ 4 2.7	1.952	2.864	9.3	20.3
3 2	8 20.50	+ 5 1.9	2.010	2.859	12.2	20.4

496265 2012 RE_{3} 1 28.9 109°.00 4°.9/ 2.4 18

12 23	9 5.26	− 1 32.4	2.899	3.601	12.3	21.7
1 2	9 0.61	− 1 45.0	2.821	3.622	10.2	21.6
1 12	8 54.48	− 1 42.7	2.765	3.642	8.0	21.5
1 22	8 47.33	− 1 25.4	2.736	3.663	6.0	21.4
2 1	8 39.75	− 0 54.1	2.736	3.683	4.9	21.3
2 11	8 32.42	− 0 11.5	2.765	3.702	5.6	21.4
2 21	8 25.94	+ 0 38.9	2.824	3.721	7.4	21.5
3 2	8 20.82	+ 1 33.1	2.909	3.740	9.4	21.7

456448 2006 VD_{96} 1 28.9 39°.24 7°.4/24.2 18

12 23	9 12.40	+33 53.8	1.737	2.550	15.1	20.9
1 2	9 7.81	+35 19.1	1.669	2.551	12.1	20.7
1 12	9 0.06	+36 41.9	1.624	2.552	9.2	20.5
1 22	8 49.88	+37 52.2	1.605	2.553	7.4	20.4
2 1	8 38.56	+38 40.9	1.613	2.555	8.2	20.4
2 11	8 27.71	+39 2.7	1.647	2.556	10.7	20.6
2 21	8 18.79	+38 57.9	1.705	2.557	13.8	20.8
3 2	8 12.82	+38 30.1	1.783	2.559	16.6	21.0

108013 2001 FX_{143} 1 28.9 206°.77 2°.7/27.4 18

12 23	9 12.70	+21 15.6	1.616	2.423	16.3	20.5
1 2	9 7.99	+22 9.8	1.533	2.420	12.6	20.3
1 12	9 0.20	+23 13.6	1.471	2.416	8.3	20.0
1 22	8 49.97	+24 19.9	1.436	2.412	3.9	19.8
2 1	8 38.50	+25 20.3	1.429	2.407	3.6	19.7
2 11	8 27.32	+26 7.6	1.450	2.402	8.0	20.0
2 21	8 17.90	+26 38.1	1.497	2.396	12.5	20.2
3 2	8 11.31	+26 51.4	1.566	2.390	16.4	20.4

90623 1202 $T\text{-}_{2}$ 1 28.9 73°.17 8°.1/25.3 18

12 23	9 20.12	+37 41.5	1.655	2.457	16.2	19.7
1 2	9 13.56	+38 37.3	1.605	2.476	13.1	19.6
1 12	9 3.57	+39 23.7	1.576	2.495	10.1	19.4
1 22	8 51.20	+39 51.2	1.573	2.514	8.3	19.4
2 1	8 38.05	+39 52.5	1.596	2.533	8.7	19.4
2 11	8 25.94	+39 26.0	1.645	2.552	10.9	19.6
2 21	8 16.30	+38 35.1	1.719	2.570	13.7	19.8
3 2	8 9.98	+37 26.2	1.815	2.589	16.4	20.0

235928 2005 EO_{101} 1 28.9 322°.23 0°.2/28.7 18

12 23	9 4.32	+14 59.7	2.016	2.812	14.0	19.8
1 2	9 0.88	+15 48.9	1.924	2.804	10.8	19.5
1 12	8 55.20	+16 51.0	1.855	2.797	7.1	19.3
1 22	8 47.80	+18 1.9	1.813	2.790	2.9	19.0
2 1	8 39.51	+19 15.8	1.800	2.784	1.5	18.9
2 11	8 31.38	+20 26.4	1.817	2.777	5.8	19.2
2 21	8 24.41	+21 28.5	1.861	2.771	9.7	19.4
3 2	8 19.44	+22 18.8	1.930	2.765	13.2	19.6

241050 2006 RU_{104} 1 28.9 200°.78 0°.3/29.1 18

12 23	9 5.52	+15 37.7	2.713	3.491	11.2	21.2
1 2	9 1.12	+15 57.4	2.618	3.489	8.7	21.0
1 12	8 55.00	+16 24.5	2.549	3.486	5.7	20.8
1 22	8 47.62	+16 56.6	2.507	3.484	2.4	20.6
2 1	8 39.63	+17 30.4	2.497	3.480	1.0	20.5
2 11	8 31.81	+18 3.0	2.517	3.477	4.4	20.7
2 21	8 24.90	+18 31.5	2.566	3.474	7.5	20.9
3 2	8 19.50	+18 54.1	2.642	3.470	10.3	21.1

275546 1998 UP_{2} 1 28.9 120°.84 6°.4/25.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 14.60	+32 46.0	1.804	2.611	14.9	20.8
1 2	9 9.22	+33 48.6	1.736	2.616	11.8	20.6
1 12	9 0.80	+34 48.5	1.691	2.622	8.7	20.4
1 22	8 50.14	+35 36.8	1.673	2.627	6.5	20.3
2 1	8 38.49	+36 6.0	1.682	2.633	7.0	20.3
2 11	8 27.42	+36 12.0	1.718	2.638	9.6	20.5
2 21	8 18.25	+35 55.3	1.779	2.642	12.8	20.7
3 2	8 11.94	+35 19.6	1.863	2.647	15.7	20.9

216702 2004 RO_{174} 1 28.9 253°.61 3°.4/30.3 18

12 23	9 11.01	+10 17.4	1.570	2.356	17.7	20.4
1 2	9 6.59	+ 9 54.1	1.480	2.349	14.2	20.1
1 12	8 59.23	+ 9 45.4	1.411	2.342	10.0	19.8
1 22	8 49.58	+ 9 50.7	1.366	2.335	5.6	19.6
2 1	8 38.73	+10 7.8	1.348	2.328	3.5	19.4
2 11	8 28.13	+10 32.7	1.358	2.320	7.1	19.6
2 21	8 19.16	+11 0.7	1.394	2.313	11.7	19.9
3 2	8 12.85	+11 27.8	1.453	2.305	15.9	20.1

246604 2008 UJ_{352} 1 28.9 321°.25 1°.1/29.6 18

12 23	9 5.98	+14 5.2	2.126	2.913	13.6	20.6
1 2	9 1.95	+14 6.6	2.033	2.906	10.7	20.4
1 12	8 55.79	+14 17.7	1.963	2.900	7.2	20.2
1 22	8 48.02	+14 36.2	1.919	2.894	3.3	19.9
2 1	8 39.47	+14 59.3	1.905	2.888	1.5	19.8
2 11	8 31.13	+15 23.5	1.919	2.882	5.3	20.0
2 21	8 23.93	+15 45.5	1.962	2.877	9.0	20.3
3 2	8 18.66	+16 3.1	2.029	2.871	12.4	20.5

355903 2008 WS_{90} 1 28.9 42°.95 4°.4/30.9 18

12 23	9 9.49	+ 8 14.5	1.372	2.164	19.5	20.8
1 2	9 5.55	+ 7 46.3	1.301	2.171	15.7	20.6
1 12	8 58.54	+ 7 36.7	1.249	2.178	11.2	20.4
1 22	8 49.25	+ 7 45.6	1.220	2.186	6.7	20.1
2 1	8 38.92	+ 8 10.7	1.217	2.194	4.5	20.0
2 11	8 29.09	+ 8 46.6	1.240	2.202	7.6	20.2
2 21	8 21.12	+ 9 27.4	1.288	2.211	12.1	20.5
3 2	8 16.01	+10 7.4	1.358	2.220	16.2	20.8

350639 2001 TM_{101} 1 28.9 32°.61 2°.9/27.5 17

12 23	9 8.27	+20 21.6	1.073	1.914	20.5	20.3
1 2	9 5.37	+21 17.9	1.023	1.928	15.7	20.0
1 12	8 58.75	+22 26.3	0.991	1.944	10.2	19.8
1 22	8 49.38	+23 37.4	0.982	1.960	4.6	19.5
2 1	8 38.89	+24 40.2	0.997	1.978	4.1	19.5
2 11	8 29.28	+25 26.1	1.037	1.996	9.3	19.9
2 21	8 22.16	+25 51.5	1.099	2.015	14.4	20.2
3 2	8 18.53	+25 56.9	1.181	2.035	18.6	20.6

169357 2001 UR_{46} 1 28.9 146°.91 2°.6/26.5 18

12 23	9 7.70	+26 1.3	2.938	3.728	10.2	21.2
1 2	9 2.69	+26 47.2	2.860	3.737	7.8	21.0
1 12	8 55.96	+27 34.4	2.808	3.746	5.2	20.8
1 22	8 48.00	+28 18.8	2.785	3.754	3.0	20.7
2 1	8 39.50	+28 56.3	2.793	3.762	3.1	20.7
2 11	8 31.24	+29 24.0	2.833	3.770	5.4	20.9
2 21	8 23.95	+29 40.6	2.901	3.777	7.9	21.1
3 2	8 18.21	+29 46.0	2.994	3.784	10.2	21.2

303404 2004 XT_{147} 1 28.9 20°.65 0°.2/28.8 18

12 23	9 6.03	+15 28.6	1.206	2.033	19.6	19.7
1 2	9 3.33	+15 59.7	1.142	2.039	15.2	19.5
1 12	8 57.32	+16 47.5	1.098	2.046	9.9	19.2
1 22	8 48.79	+17 46.4	1.077	2.055	4.1	18.9
2 1	8 39.14	+18 48.3	1.080	2.064	1.9	18.8
2 11	8 30.07	+19 44.5	1.109	2.075	7.8	19.2
2 21	8 23.09	+20 29.1	1.162	2.086	13.0	19.5
3 2	8 19.22	+20 58.9	1.236	2.098	17.4	19.8

161307 2003 OR_{2} 1 28.9 87°.17 1°.6/28.1 18 R

12 23	9 14.27	+20 3.6	1.655	2.455	16.3	20.3
1 2	9 8.62	+20 37.5	1.597	2.480	12.4	20.1
1 12	9 0.19	+21 18.7	1.561	2.505	8.0	19.9
1 22	8 49.81	+22 1.2	1.552	2.529	3.4	19.7
2 1	8 38.72	+22 38.8	1.571	2.553	2.5	19.7
2 11	8 28.32	+23 6.7	1.620	2.576	6.8	20.0
2 21	8 19.80	+23 22.6	1.695	2.599	10.9	20.3
3 2	8 13.94	+23 26.6	1.793	2.621	14.4	20.6

298712 2004 FR_{14} 1 28.9 248°.62 7°.8/21.8 17

12 23	9 18.25	+47 9.3	2.954	3.710	10.9	21.0
1 2	9 11.44	+48 8.1	2.869	3.693	9.5	20.9
1 12	9 2.01	+48 56.9	2.809	3.675	8.3	20.7
1 22	8 50.62	+49 29.0	2.774	3.657	7.8	20.7
2 1	8 38.31	+49 38.9	2.768	3.638	8.4	20.7
2 11	8 26.35	+49 24.5	2.788	3.619	9.6	20.8
2 21	8 15.91	+48 46.9	2.833	3.599	11.2	20.8
3 2	8 7.87	+47 49.8	2.899	3.579	12.9	20.9

495539 2014 WC_{108} 1 28.9 128°.94 5°.8/24.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 12.85	+31 38.6	2.090	2.892	13.3	21.7
1 2	9 7.52	+33 8.3	2.026	2.904	10.5	21.5
1 12	8 59.55	+34 36.9	1.987	2.916	7.7	21.4
1 22	8 49.62	+35 56.1	1.975	2.927	5.9	21.3
2 1	8 38.78	+36 58.0	1.993	2.938	6.6	21.3
2 11	8 28.34	+37 38.0	2.039	2.949	8.9	21.5
2 21	8 19.47	+37 55.3	2.110	2.959	11.7	21.7
3 2	8 13.04	+37 52.2	2.205	2.968	14.2	21.9

366775 2004 TP_{91} 1 28.9 117°.36 0°.1/28.8 18

12 23	9 10.01	+16 58.2	2.443	3.221	12.3	22.0
1 2	9 4.55	+17 18.9	2.370	3.241	9.4	21.9
1 12	8 57.20	+17 46.3	2.322	3.260	6.1	21.7
1 22	8 48.52	+18 17.3	2.302	3.279	2.5	21.5
2 1	8 39.30	+18 48.3	2.313	3.297	1.2	21.4
2 11	8 30.45	+19 15.8	2.356	3.314	4.8	21.7
2 21	8 22.77	+19 37.7	2.427	3.331	8.1	21.9
3 2	8 16.87	+19 52.7	2.525	3.348	10.9	22.1

81643 2000 HP_{80} 1 28.9 147°.23 0°.5/29.4 18

12 23	9 5.44	+13 17.1	2.839	3.608	11.0	20.1
1 2	9 0.94	+13 55.2	2.753	3.617	8.5	20.0
1 12	8 54.82	+14 42.3	2.691	3.625	5.6	19.8
1 22	8 47.55	+15 35.8	2.659	3.633	2.5	19.6
2 1	8 39.73	+16 32.0	2.657	3.641	1.0	19.5
2 11	8 32.10	+17 27.2	2.688	3.648	4.1	19.7
2 21	8 25.34	+18 17.9	2.748	3.655	7.1	19.9
3 2	8 20.00	+19 2.0	2.835	3.661	9.8	20.1

327419 2005 VR_{128} 1 28.9 70°.67 2°.2/30.3 18

12 23	9 7.29	+10 0.7	1.800	2.582	15.9	21.7
1 2	9 3.18	+10 14.1	1.725	2.592	12.6	21.5
1 12	8 56.67	+10 43.0	1.671	2.603	8.6	21.3
1 22	8 48.40	+11 25.0	1.642	2.613	4.5	21.1
2 1	8 39.35	+12 15.9	1.642	2.623	2.4	20.9
2 11	8 30.66	+13 10.2	1.670	2.633	5.8	21.2
2 21	8 23.39	+14 2.6	1.726	2.644	9.8	21.4
3 2	8 18.32	+14 49.0	1.805	2.654	13.4	21.7

298642 2004 BT_{83} 1 28.9 287°.49 7°.2/24.8 18

12 23	9 19.83	+40 48.4	2.359	3.137	12.7	19.7
1 2	9 12.92	+41 20.9	2.262	3.115	10.6	19.5
1 12	9 3.11	+41 44.4	2.189	3.093	8.5	19.3
1 22	8 51.11	+41 51.5	2.143	3.071	7.3	19.2
2 1	8 38.12	+41 36.2	2.124	3.049	7.7	19.2
2 11	8 25.56	+40 56.1	2.135	3.026	9.6	19.3
2 21	8 14.75	+39 53.2	2.172	3.004	12.0	19.4
3 2	8 6.64	+38 32.2	2.232	2.981	14.5	19.5

50866 Davidesprizzi 1 28.9 0°.57 9°.7/23.2 18

12 23	9 10.43	+36 20.5	1.405	2.233	17.2	16.7
1 2	9 7.14	+38 3.9	1.345	2.232	14.1	16.5
1 12	9 0.06	+39 42.6	1.305	2.231	11.2	16.3
1 22	8 50.03	+41 3.6	1.289	2.230	9.7	16.2
2 1	8 38.60	+41 55.2	1.298	2.231	10.7	16.3
2 11	8 27.78	+42 11.5	1.330	2.232	13.3	16.4
2 21	8 19.36	+41 53.8	1.384	2.235	16.5	16.6
3 2	8 14.51	+41 7.8	1.456	2.238	19.4	16.8

302884 2003 MH 1 28.9 256°.20 1°.8/27.9 18

12 23	9 11.53	+20 8.4	1.742	2.544	15.5	21.1
1 2	9 7.03	+20 47.2	1.643	2.528	12.1	20.8
1 12	8 59.60	+21 35.6	1.566	2.511	7.9	20.5
1 22	8 49.80	+22 28.2	1.516	2.493	3.5	20.2
2 1	8 38.67	+23 18.1	1.494	2.475	2.8	20.1
2 11	8 27.65	+23 59.0	1.501	2.456	7.4	20.4
2 21	8 18.12	+24 26.7	1.534	2.437	11.9	20.6
3 2	8 11.20	+24 40.0	1.590	2.418	16.0	20.8

458813 2011 SH_{256} 1 28.9 85°.55 1°.1/28.3 18

12 23	9 12.73	+18 17.9	1.584	2.387	16.8	21.7
1 2	9 7.62	+18 54.8	1.523	2.408	12.9	21.5
1 12	8 59.65	+19 41.4	1.484	2.428	8.3	21.3
1 22	8 49.64	+20 32.0	1.471	2.449	3.4	21.0
2 1	8 38.84	+21 19.8	1.486	2.469	2.2	21.0
2 11	8 28.67	+21 58.9	1.530	2.489	6.9	21.3
2 21	8 20.36	+22 26.3	1.600	2.508	11.2	21.6
3 2	8 14.76	+22 41.1	1.693	2.527	14.9	21.9

119534 2001 VL_{10} 1 28.9 268°.37 5°.2/31.2 18

12 23	9 10.14	+ 5 55.1	1.920	2.677	15.9	19.3
1 2	9 5.36	+ 5 3.2	1.824	2.669	13.1	19.1
1 12	8 58.15	+ 4 24.4	1.750	2.662	9.8	18.9
1 22	8 49.08	+ 4 0.2	1.701	2.654	6.6	18.7
2 1	8 39.04	+ 3 50.9	1.680	2.646	5.2	18.6
2 11	8 29.19	+ 3 54.8	1.687	2.638	7.1	18.7
2 21	8 20.63	+ 4 8.8	1.721	2.630	10.5	18.8
3 2	8 14.23	+ 4 28.9	1.780	2.623	13.9	19.0

372612 2009 VB_{19} 1 28.9 133°.56 1°.6/27.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.84	+21 5.1	2.158	2.953	13.2	21.8
1 2	9 4.85	+21 34.0	2.079	2.960	10.1	21.6
1 12	8 57.63	+22 8.1	2.024	2.967	6.6	21.4
1 22	8 48.78	+22 43.1	1.997	2.973	2.9	21.2
2 1	8 39.22	+23 14.4	1.999	2.980	2.3	21.1
2 11	8 30.00	+23 37.9	2.032	2.986	5.9	21.4
2 21	8 22.09	+23 51.7	2.092	2.992	9.4	21.6
3 2	8 16.24	+23 55.4	2.177	2.997	12.5	21.8

209155 2003 UE_{10} 1 28.9 258°.04 4°.8/26.2 18

12 23	9 12.10	+27 20.2	1.691	2.504	15.5	19.8
1 2	9 7.58	+28 19.4	1.607	2.496	12.1	19.5
1 12	8 59.97	+29 22.2	1.547	2.488	8.3	19.3
1 22	8 49.94	+30 20.3	1.512	2.480	5.2	19.1
2 1	8 38.68	+31 5.3	1.505	2.472	5.6	19.1
2 11	8 27.74	+31 31.2	1.526	2.464	9.0	19.3
2 21	8 18.56	+31 36.2	1.571	2.456	12.9	19.5
3 2	8 12.22	+31 22.0	1.639	2.447	16.5	19.7

436287 2010 CZ_{227} 1 28.9 341°.11 11°.7/ 8.0 18

12 23	9 3.03	−18 24.1	2.283	2.894	17.3	21.0
1 2	8 59.66	−19 23.3	2.194	2.891	15.8	20.9
1 12	8 54.31	−19 56.8	2.121	2.887	14.3	20.7
1 22	8 47.45	−20 0.3	2.066	2.884	12.9	20.6
2 1	8 39.83	−19 31.1	2.034	2.881	11.9	20.6
2 11	8 32.35	−18 30.5	2.024	2.879	11.7	20.5
2 21	8 25.88	−17 2.9	2.038	2.877	12.4	20.6
3 2	8 21.16	−15 15.9	2.075	2.875	13.8	20.7

421625 2014 OK_{294} 1 28.9 80°.51 3°.2/30.9 18

12 23	9 8.74	+ 7 29.9	1.771	2.543	16.5	21.2
1 2	9 4.22	+ 7 39.9	1.703	2.562	13.2	21.0
1 12	8 57.30	+ 8 7.3	1.656	2.582	9.3	20.8
1 22	8 48.67	+ 8 50.2	1.635	2.601	5.2	20.6
2 1	8 39.32	+ 9 44.4	1.641	2.620	3.2	20.5
2 11	8 30.43	+10 44.2	1.677	2.639	6.0	20.7
2 21	8 23.02	+11 43.8	1.740	2.657	9.8	21.0
3 2	8 17.85	+12 38.5	1.827	2.676	13.3	21.2

505100 2012 BY_{63} 1 28.9 335°.03 0°.5/29.3 17

12 23	9 2.75	+15 5.4	2.876	3.655	10.6	21.6
1 2	8 58.93	+15 15.6	2.780	3.651	8.2	21.4
1 12	8 53.56	+15 32.6	2.710	3.647	5.4	21.2
1 22	8 47.06	+15 54.6	2.668	3.643	2.4	21.0
2 1	8 40.03	+16 19.0	2.656	3.639	1.0	20.9
2 11	8 33.16	+16 43.3	2.674	3.636	4.1	21.1
2 21	8 27.11	+17 5.0	2.722	3.633	7.0	21.3
3 2	8 22.42	+17 22.6	2.796	3.629	9.6	21.5

319864 2006 WA_{62} 1 28.9 31°.53 4°.7/ 1.2 18

12 23	9 3.84	+ 2 7.0	1.427	2.203	19.6	19.7
1 2	9 1.08	+ 2 44.9	1.357	2.214	16.0	19.5
1 12	8 55.59	+ 3 52.2	1.307	2.226	11.7	19.2
1 22	8 48.06	+ 5 26.8	1.279	2.239	7.3	19.0
2 1	8 39.58	+ 7 22.0	1.277	2.253	4.7	18.9
2 11	8 31.51	+ 9 27.3	1.303	2.267	7.0	19.1
2 21	8 25.08	+11 31.3	1.355	2.282	11.2	19.3
3 2	8 21.20	+13 24.6	1.431	2.298	15.3	19.6

5912 Oyatoshiyuki 1 28.9 24°.56 0°.6/28.6 18

12 23	9 6.61	+16 25.6	1.193	2.022	19.6	17.1
1 2	9 3.82	+17 1.3	1.132	2.030	15.2	16.8
1 12	8 57.66	+17 52.8	1.090	2.040	9.9	16.6
1 22	8 48.98	+18 53.8	1.071	2.050	4.0	16.3
2 1	8 39.18	+19 55.7	1.078	2.061	2.2	16.2
2 11	8 30.01	+20 50.0	1.109	2.073	7.9	16.6
2 21	8 22.97	+21 30.9	1.164	2.086	13.1	16.9
3 2	8 19.09	+21 56.2	1.240	2.100	17.5	17.2

142918 2002 VT_{56} 1 28.9 13°.38 3°.6/30.6 18

12 23	9 4.04	+ 9 36.6	1.234	2.048	20.0	19.1
1 2	9 1.64	+ 9 21.4	1.168	2.053	16.0	18.9
1 12	8 56.15	+ 9 26.2	1.121	2.059	11.2	18.6
1 22	8 48.33	+ 9 49.9	1.096	2.067	6.2	18.4
2 1	8 39.46	+10 28.5	1.096	2.076	3.7	18.2
2 11	8 31.13	+11 15.5	1.120	2.086	7.5	18.5
2 21	8 24.71	+12 3.8	1.168	2.098	12.3	18.8
3 2	8 21.18	+12 47.4	1.237	2.111	16.6	19.1

2688 Halley 1 28.9 210°.14 0°.7/28.3 18

12 23	9 5.89	+18 45.0	2.810	3.594	10.7	17.4
1 2	9 1.41	+19 14.2	2.714	3.589	8.2	17.2
1 12	8 55.23	+19 49.1	2.643	3.584	5.3	17.0
1 22	8 47.78	+20 26.8	2.602	3.579	2.2	16.8
2 1	8 39.72	+21 3.7	2.591	3.573	1.4	16.7
2 11	8 31.81	+21 36.5	2.611	3.567	4.6	16.9
2 21	8 24.77	+22 3.0	2.660	3.561	7.6	17.1
3 2	8 19.23	+22 21.8	2.735	3.554	10.3	17.3

157792 1993 FT_{10} 1 28.9 335°.26 1°.9/29.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 4.41	+11 37.7	1.610	2.410	16.7	20.1
1 2	9 1.49	+11 49.0	1.520	2.400	13.2	19.9
1 12	8 55.91	+12 16.5	1.452	2.390	9.0	19.6
1 22	8 48.24	+12 57.9	1.407	2.381	4.5	19.3
2 1	8 39.49	+13 48.9	1.389	2.372	2.1	19.1
2 11	8 30.94	+14 43.4	1.399	2.364	6.4	19.4
2 21	8 23.84	+15 35.5	1.434	2.357	11.1	19.6
3 2	8 19.15	+16 20.4	1.492	2.351	15.2	19.9

286489 2002 AC_{202} 1 28.9 60°.81 2°.3/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.92	+ 9 28.6	1.365	2.162	19.3	20.3
1 2	9 5.06	+ 9 56.0	1.303	2.180	15.2	20.1
1 12	8 58.19	+10 44.5	1.261	2.198	10.4	19.9
1 22	8 49.13	+11 50.2	1.243	2.215	5.2	19.6
2 1	8 39.15	+13 6.3	1.251	2.234	2.5	19.5
2 11	8 29.75	+14 23.9	1.286	2.252	6.9	19.8
2 21	8 22.26	+15 35.6	1.347	2.270	11.6	20.1
3 2	8 17.58	+16 36.1	1.431	2.289	15.8	20.4

136952 1998 RY_{3} 1 28.9 110°.32 6°.1/25.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.80	+34 5.0	1.971	2.766	14.3	20.3
1 2	9 12.02	+34 57.4	1.914	2.785	11.3	20.1
1 12	9 2.39	+35 44.5	1.879	2.805	8.3	20.0
1 22	8 50.77	+36 18.6	1.872	2.823	6.3	19.9
2 1	8 38.44	+36 33.4	1.894	2.842	6.7	20.0
2 11	8 26.85	+36 26.3	1.944	2.859	9.0	20.1
2 21	8 17.22	+35 59.0	2.020	2.876	11.8	20.3
3 2	8 10.35	+35 15.4	2.119	2.893	14.4	20.5

45609 2000 DN_{46} 1 28.9 168°.18 2°.6/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.39	+ 7 34.1	2.474	3.230	12.8	19.2
1 2	9 1.16	+ 7 47.5	2.382	3.233	10.2	19.0
1 12	8 55.12	+ 8 14.1	2.314	3.235	7.2	18.8
1 22	8 47.76	+ 8 52.4	2.272	3.236	4.2	18.6
2 1	8 39.76	+ 9 39.8	2.260	3.238	2.6	18.5
2 11	8 31.94	+10 32.4	2.279	3.239	4.8	18.7
2 21	8 25.08	+11 26.0	2.326	3.240	7.9	18.8
3 2	8 19.81	+12 17.0	2.400	3.241	10.8	19.0

453287 2008 TH_{110} 1 28.9 131°.90 0°.9/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 15.49	+19 3.0	1.761	2.553	15.8	22.1
1 2	9 9.56	+19 21.7	1.688	2.567	12.2	21.9
1 12	9 0.88	+19 47.9	1.639	2.580	7.9	21.7
1 22	8 50.20	+20 16.9	1.616	2.593	3.3	21.4
2 1	8 38.68	+20 43.5	1.622	2.605	1.9	21.4
2 11	8 27.70	+21 3.2	1.658	2.616	6.5	21.7
2 21	8 18.45	+21 13.8	1.721	2.626	10.7	22.0
3 2	8 11.82	+21 14.9	1.808	2.636	14.3	22.2

236892 2007 TJ_{7} 1 28.9 298°.40 1°.4/28.1 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.12	+21 13.7	2.109	2.908	13.3	20.5
1 2	9 3.80	+21 29.9	2.010	2.894	10.3	20.3
1 12	8 57.13	+21 51.1	1.936	2.879	6.7	20.0
1 22	8 48.68	+22 13.6	1.888	2.865	2.9	19.8
2 1	8 39.32	+22 33.1	1.870	2.851	2.2	19.7
2 11	8 30.15	+22 46.0	1.880	2.837	6.0	19.9
2 21	8 22.21	+22 50.0	1.919	2.823	9.9	20.1
3 2	8 16.34	+22 44.6	1.981	2.809	13.2	20.3

496606 2015 DK_{156} 1 28.9 37°.33 2°.1/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.85	+ 8 30.7	2.069	2.843	14.4	20.8
1 2	9 0.31	+ 9 6.0	1.988	2.851	11.4	20.6
1 12	8 54.72	+ 9 57.4	1.929	2.858	7.9	20.4
1 22	8 47.63	+11 2.4	1.896	2.866	4.1	20.1
2 1	8 39.82	+12 16.2	1.892	2.874	2.2	20.0
2 11	8 32.27	+13 33.0	1.918	2.882	5.2	20.2
2 21	8 25.86	+14 47.1	1.973	2.890	8.8	20.5
3 2	8 21.31	+15 54.0	2.052	2.899	12.1	20.7

250118 2002 NU_{69} 1 28.9 256°.28 2°.9/30.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.62	+10 20.5	1.767	2.547	16.2	20.5
1 2	9 5.26	+10 7.3	1.672	2.537	13.0	20.3
1 12	8 58.26	+10 7.8	1.598	2.528	9.1	20.0
1 22	8 49.21	+10 21.1	1.550	2.519	5.0	19.8
2 1	8 39.08	+10 44.9	1.529	2.509	3.0	19.6
2 11	8 29.14	+11 15.0	1.537	2.499	6.4	19.8
2 21	8 20.59	+11 47.1	1.572	2.489	10.7	20.0
3 2	8 14.40	+12 17.3	1.630	2.479	14.6	20.3

326719 2003 ED_{36} 1 28.9 300°.65 0°.7/28.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.07	+17 28.0	1.746	2.551	15.4	20.8
1 2	9 3.48	+17 59.7	1.650	2.536	12.0	20.5
1 12	8 57.20	+18 42.8	1.577	2.522	7.9	20.3
1 22	8 48.81	+19 33.0	1.529	2.507	3.3	19.9
2 1	8 39.25	+20 24.4	1.509	2.492	1.9	19.8
2 11	8 29.84	+21 10.9	1.517	2.478	6.7	20.1
2 21	8 21.83	+21 48.0	1.552	2.464	11.2	20.3
3 2	8 16.22	+22 13.0	1.610	2.450	15.2	20.5

407711 2011 UF_{213} 1 28.9 229°.12 3°.1/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 10.91	+10 12.0	1.702	2.481	16.8	21.8
1 2	9 6.31	+ 9 56.3	1.611	2.476	13.4	21.6
1 12	8 58.98	+ 9 54.7	1.541	2.470	9.4	21.3
1 22	8 49.52	+10 6.4	1.496	2.464	5.2	21.1
2 1	8 38.97	+10 29.0	1.478	2.458	3.2	20.9
2 11	8 28.66	+10 58.3	1.490	2.451	6.6	21.1
2 21	8 19.84	+11 29.8	1.527	2.445	11.0	21.3
3 2	8 13.49	+11 59.5	1.589	2.438	14.9	21.6

144689 2004 FD_{146} 1 28.9 182°.02 0°.7/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.78	+19 1.2	2.974	3.756	10.2	20.4
1 2	9 1.21	+19 28.4	2.882	3.756	7.9	20.2
1 12	8 55.04	+20 0.6	2.816	3.756	5.1	20.0
1 22	8 47.71	+20 34.9	2.779	3.756	2.1	19.8
2 1	8 39.83	+21 8.3	2.773	3.756	1.4	19.8
2 11	8 32.13	+21 37.7	2.799	3.755	4.3	20.0
2 21	8 25.27	+22 1.1	2.854	3.753	7.2	20.2
3 2	8 19.82	+22 17.3	2.935	3.752	9.7	20.3

37309 2001 OX_{62} 1 28.9 183°.10 6°.9/24.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 16.28	+37 17.6	2.191	2.982	13.1	18.5
1 2	9 10.23	+38 20.6	2.118	2.983	10.7	18.4
1 12	9 1.39	+39 17.8	2.068	2.983	8.3	18.2
1 22	8 50.47	+40 1.3	2.046	2.983	7.0	18.1
2 1	8 38.61	+40 24.4	2.051	2.982	7.5	18.2
2 11	8 27.22	+40 23.8	2.085	2.981	9.5	18.3
2 21	8 17.53	+40 0.5	2.144	2.979	12.0	18.5
3 2	8 10.44	+39 18.2	2.225	2.977	14.4	18.6

203384 2001 XA_{93} 1 28.9 75°.53 2°.7/27.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.82	+21 37.2	1.454	2.271	17.4	20.6
1 2	9 7.47	+22 22.4	1.385	2.277	13.4	20.4
1 12	8 59.92	+23 16.2	1.336	2.283	8.7	20.1
1 22	8 49.94	+24 11.1	1.313	2.289	4.1	19.9
2 1	8 38.86	+24 59.0	1.317	2.296	3.6	19.8
2 11	8 28.32	+25 33.4	1.347	2.302	8.1	20.1
2 21	8 19.76	+25 51.4	1.403	2.308	12.7	20.4
3 2	8 14.19	+25 53.2	1.481	2.315	16.6	20.7

399021 2013 GH_{59} 1 28.9 206°.57 2°.4/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.20	+ 9 50.2	1.884	2.659	15.6	21.3
1 2	9 4.74	+ 9 57.9	1.793	2.656	12.4	21.0
1 12	8 57.82	+10 20.5	1.723	2.652	8.6	20.8
1 22	8 49.02	+10 56.3	1.679	2.648	4.6	20.5
2 1	8 39.26	+11 41.9	1.663	2.644	2.5	20.4
2 11	8 29.71	+12 32.2	1.677	2.639	5.9	20.6
2 21	8 21.47	+13 22.0	1.718	2.634	10.0	20.8
3 2	8 15.43	+14 7.4	1.784	2.629	13.7	21.0

193881 2001 QT_{180} 1 28.9 100°.94 6°.4/25.5 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 18.12	+30 35.8	1.611	2.418	16.4	20.8
1 2	9 12.08	+31 59.0	1.559	2.441	12.8	20.7
1 12	9 2.74	+33 20.7	1.530	2.464	9.1	20.5
1 22	8 51.04	+34 30.5	1.527	2.486	6.6	20.4
2 1	8 38.43	+35 19.3	1.553	2.507	7.1	20.5
2 11	8 26.61	+35 42.4	1.605	2.528	10.0	20.7
2 21	8 17.02	+35 40.6	1.683	2.548	13.3	20.9
3 2	8 10.57	+35 18.1	1.782	2.567	16.2	21.2

145292 2005 JA_{179} 1 28.9 97°.15 4°.5/26.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.31	+26 8.4	1.727	2.539	15.2	20.2
1 2	9 6.72	+27 21.3	1.659	2.548	11.8	19.9
1 12	8 59.24	+28 38.3	1.615	2.557	8.0	19.7
1 22	8 49.62	+29 50.9	1.597	2.565	4.9	19.6
2 1	8 39.02	+30 50.8	1.607	2.574	5.3	19.6
2 11	8 28.88	+31 31.8	1.645	2.582	8.6	19.8
2 21	8 20.47	+31 52.3	1.708	2.591	12.2	20.1
3 2	8 14.74	+31 53.5	1.794	2.599	15.4	20.3

215055 2009 DR_{70} 1 28.9 19°.29 0°.6/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.69	+15 18.4	1.243	2.065	19.4	20.7
1 2	9 4.57	+15 26.6	1.177	2.070	15.1	20.5
1 12	8 58.15	+15 49.6	1.129	2.076	10.0	20.2
1 22	8 49.24	+16 23.5	1.105	2.082	4.3	19.9
2 1	8 39.20	+17 1.9	1.106	2.090	1.8	19.7
2 11	8 29.74	+17 38.3	1.132	2.098	7.5	20.1
2 21	8 22.33	+18 7.4	1.182	2.107	12.7	20.4
3 2	8 18.01	+18 26.4	1.254	2.117	17.2	20.7

206835 2004 EH_{56} 1 28.9 295°.83 4°.1/26.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.02	+29 45.6	2.289	3.090	12.3	20.1
1 2	9 5.14	+30 19.9	2.202	3.083	9.6	19.9
1 12	8 57.94	+30 53.2	2.140	3.076	6.7	19.7
1 22	8 49.03	+31 20.1	2.105	3.069	4.4	19.5
2 1	8 39.31	+31 35.8	2.099	3.062	4.7	19.5
2 11	8 29.90	+31 37.1	2.122	3.055	7.2	19.7
2 21	8 21.81	+31 23.3	2.172	3.049	10.2	19.9
3 2	8 15.82	+30 55.9	2.246	3.042	13.0	20.0

110908 2001 UR_{123} 1 28.9 203°.57 2°.6/31.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.75	+ 6 25.7	2.523	3.268	12.8	21.0
1 2	9 3.03	+ 6 50.5	2.419	3.262	10.3	20.8
1 12	8 56.42	+ 7 30.0	2.339	3.256	7.4	20.6
1 22	8 48.38	+ 8 22.6	2.286	3.249	4.3	20.4
2 1	8 39.59	+ 9 25.5	2.264	3.241	2.7	20.3
2 11	8 30.90	+10 34.0	2.273	3.233	4.9	20.4
2 21	8 23.12	+11 43.5	2.312	3.223	8.1	20.6
3 2	8 16.95	+12 49.8	2.379	3.214	11.1	20.8

433567 2013 YH_{15} 1 28.9 312°.05 6°.7/ 1.6 18

12 23	9 7.09	− 0 22.0	2.223	2.946	15.0	20.5
1 2	9 2.72	− 1 21.8	2.127	2.940	12.7	20.3
1 12	8 56.31	− 2 6.5	2.053	2.935	10.2	20.2
1 22	8 48.36	− 2 33.5	2.004	2.930	7.9	20.0
2 1	8 39.63	− 2 41.8	1.982	2.925	6.8	19.9
2 11	8 31.05	− 2 32.6	1.988	2.921	7.7	20.0
2 21	8 23.52	− 2 9.0	2.020	2.916	9.9	20.1
3 2	8 17.77	− 1 35.7	2.078	2.911	12.5	20.3

419166 2009 TB_5 1 28.9 98°.18 1°.5/27.9 18

12 23	9 11.16	+20 37.0	2.157	2.948	13.3	21.7
1 2	9 5.75	+21 12.7	2.092	2.970	10.1	21.5
1 12	8 58.17	+21 53.6	2.051	2.993	6.5	21.3
1 22	8 49.06	+22 35.3	2.038	3.014	2.8	21.1
2 1	8 39.37	+23 12.7	2.055	3.036	2.2	21.1
2 11	8 30.13	+23 42.0	2.103	3.057	5.7	21.4
2 21	8 22.27	+24 1.1	2.179	3.077	9.1	21.6
3 2	8 16.47	+24 9.8	2.279	3.097	12.1	21.9

39033 2000 UX_{77} 1 28.9 197°.08 3°.3/30.8 18

12 23	9 10.27	+ 8 11.0	1.898	2.664	15.8	20.5
1 2	9 5.53	+ 8 5.7	1.806	2.662	12.7	20.3
1 12	8 58.34	+ 8 15.6	1.736	2.659	9.0	20.0
1 22	8 49.26	+ 8 40.0	1.691	2.656	5.2	19.8
2 1	8 39.23	+ 9 16.0	1.675	2.653	3.3	19.7
2 11	8 29.42	+ 9 59.3	1.688	2.649	6.1	19.8
2 21	8 20.93	+10 45.1	1.729	2.644	10.0	20.0
3 2	8 14.64	+11 29.0	1.795	2.639	13.7	20.3

265360 2004 RC_{101} 1 28.9 197°.30 0°.9/29.5 18

12 23	9 8.95	+14 21.9	2.183	2.963	13.5	21.0
1 2	9 4.20	+14 27.5	2.091	2.961	10.6	20.8
1 12	8 57.29	+14 42.4	2.023	2.959	7.1	20.6
1 22	8 48.77	+15 4.2	1.982	2.957	3.2	20.4
2 1	8 39.47	+15 29.8	1.971	2.955	1.4	20.2
2 11	8 30.40	+15 55.6	1.990	2.952	5.2	20.5
2 21	8 22.51	+16 18.5	2.037	2.949	8.9	20.7
3 2	8 16.56	+16 36.3	2.110	2.946	12.3	20.9

52283 1989 SE_5 1 28.9 143°.87 1°.4/29.9 18

12 23	9 9.55	+11 39.8	2.261	3.029	13.5	19.9
1 2	9 4.48	+11 59.2	2.179	3.041	10.6	19.7
1 12	8 57.36	+12 30.1	2.120	3.051	7.1	19.5
1 22	8 48.76	+13 9.9	2.089	3.061	3.5	19.3
2 1	8 39.49	+13 55.1	2.088	3.071	1.6	19.1
2 11	8 30.50	+14 41.2	2.118	3.079	5.0	19.4
2 21	8 22.68	+15 24.6	2.176	3.087	8.5	19.6
3 2	8 16.72	+16 2.3	2.261	3.095	11.6	19.8

169257 2001 SB_{150} 1 28.9 151°.66 2°.1/30.5 18

12 23	9 5.80	+10 2.2	2.540	3.303	12.3	20.7
1 2	9 1.43	+10 4.7	2.450	3.307	9.7	20.5
1 12	8 55.30	+10 17.7	2.384	3.310	6.8	20.3
1 22	8 47.89	+10 39.9	2.345	3.313	3.7	20.1
2 1	8 39.88	+11 9.1	2.336	3.316	2.1	20.0
2 11	8 32.08	+11 41.9	2.357	3.318	4.6	20.2
2 21	8 25.23	+12 15.4	2.408	3.321	7.7	20.4
3 2	8 19.95	+12 46.7	2.484	3.323	10.5	20.6

82833 2001 QF_{46} 1 28.9 349°.42 2°.1/30.5 18

12 23	9 4.24	+ 9 6.6	2.126	2.900	14.0	19.5
1 2	9 0.65	+ 9 29.7	2.036	2.899	11.1	19.2
1 12	8 55.01	+10 7.8	1.968	2.897	7.7	19.0
1 22	8 47.83	+10 58.6	1.927	2.896	4.1	18.8
2 1	8 39.89	+11 58.4	1.914	2.895	2.2	18.7
2 11	8 32.14	+13 2.3	1.931	2.895	5.2	18.9
2 21	8 25.48	+14 4.9	1.976	2.894	8.8	19.1
3 2	8 20.64	+15 2.1	2.047	2.894	12.1	19.3

285071 2011 KK_{25} 1 28.9 339°.12 5°.7/24.6 18

12 23	9 7.93	+30 9.6	1.960	2.773	13.6	20.2
1 2	9 4.07	+31 37.8	1.883	2.770	10.7	20.0
1 12	8 57.55	+33 7.8	1.831	2.766	7.8	19.8
1 22	8 48.98	+34 31.0	1.806	2.763	5.8	19.7
2 1	8 39.37	+35 39.1	1.809	2.761	6.5	19.7
2 11	8 30.02	+36 26.2	1.840	2.758	9.2	19.8
2 21	8 22.13	+36 50.4	1.895	2.756	12.2	20.0
3 2	8 16.66	+36 53.2	1.973	2.754	15.0	20.2

74438 1999 CT 1 28.9 248°.86 0°.4/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 5.56	+16 20.4	2.488	3.273	11.9	19.5
1 2	9 1.49	+17 5.3	2.387	3.262	9.2	19.3
1 12	8 55.50	+17 59.7	2.312	3.252	6.0	19.1
1 22	8 48.04	+19 0.1	2.264	3.241	2.5	18.8
2 1	8 39.81	+20 1.8	2.247	3.230	1.4	18.7
2 11	8 31.67	+21 0.1	2.260	3.218	5.0	18.9
2 21	8 24.47	+21 51.2	2.303	3.207	8.4	19.1
3 2	8 18.91	+22 32.8	2.371	3.195	11.5	19.3

136539 2144 P–L 1 28.9 50°.98 0°.8/28.6 17

12 23	9 15.37	+18 42.9	1.362	2.171	18.7	19.7
1 2	9 9.72	+18 57.7	1.320	2.208	14.2	19.5
1 12	9 0.99	+19 21.3	1.300	2.245	9.1	19.3
1 22	8 50.24	+19 48.1	1.304	2.282	3.7	19.1
2 1	8 38.95	+20 12.2	1.336	2.319	2.0	19.1
2 11	8 28.69	+20 29.0	1.395	2.356	7.0	19.5
2 21	8 20.68	+20 36.4	1.480	2.393	11.5	19.9
3 2	8 15.65	+20 34.3	1.587	2.430	15.2	20.2

284133 2005 UP_{504} 1 28.9 59°.54 0°.6/28.6 17

12 23	9 12.51	+17 5.0	1.300	2.115	19.1	21.1
1 2	9 7.95	+17 34.7	1.247	2.137	14.7	20.9
1 12	9 0.13	+18 17.1	1.214	2.160	9.5	20.6
1 22	8 50.01	+19 5.9	1.205	2.183	3.9	20.4
2 1	8 39.02	+19 53.6	1.223	2.206	2.0	20.3
2 11	8 28.84	+20 33.3	1.267	2.230	7.4	20.7
2 21	8 20.86	+21 1.3	1.337	2.253	12.3	21.0
3 2	8 15.97	+21 16.5	1.428	2.277	16.3	21.3

265772 2005 WD_{36} 1 28.9 187°.85 2°.3/27.4 18

12 23	9 8.90	+21 53.4	2.038	2.839	13.6	20.9
1 2	9 4.45	+22 42.4	1.954	2.838	10.5	20.7
1 12	8 57.61	+23 37.8	1.895	2.838	6.8	20.5
1 22	8 48.97	+24 34.2	1.862	2.838	3.3	20.2
2 1	8 39.44	+25 25.5	1.859	2.837	3.1	20.2
2 11	8 30.19	+26 6.5	1.886	2.836	6.6	20.4
2 21	8 22.26	+26 34.4	1.939	2.835	10.2	20.7
3 2	8 16.49	+26 48.5	2.017	2.834	13.5	20.9

266937 2010 PM_8 1 28.9 222°.79 1°.6/29.9 17

12 23	9 11.28	+12 18.8	2.056	2.829	14.5	22.2
1 2	9 6.24	+12 22.7	1.955	2.819	11.5	22.0
1 12	8 58.80	+12 38.3	1.876	2.808	7.8	21.8
1 22	8 49.50	+13 3.5	1.825	2.797	3.9	21.5
2 1	8 39.20	+13 35.1	1.802	2.785	1.9	21.3
2 11	8 29.03	+14 9.1	1.810	2.772	5.6	21.6
2 21	8 20.07	+14 41.6	1.846	2.758	9.7	21.8
3 2	8 13.21	+15 9.6	1.908	2.744	13.3	22.0

406358 2007 RR_{191} 1 28.9 228°.67 1°.4/28.2 18

12 23	9 12.14	+19 32.0	1.860	2.656	14.9	22.3
1 2	9 7.25	+20 3.4	1.766	2.647	11.6	22.1
1 12	8 59.64	+20 43.3	1.694	2.637	7.6	21.8
1 22	8 49.89	+21 27.0	1.649	2.626	3.2	21.5
2 1	8 39.02	+22 8.5	1.634	2.615	2.3	21.4
2 11	8 28.34	+22 42.4	1.647	2.604	6.7	21.7
2 21	8 19.10	+23 5.5	1.688	2.592	11.0	21.9
3 2	8 12.30	+23 16.5	1.752	2.579	14.8	22.1

82682 2001 PC_{26} 1 28.9 233°.09 0°.4/28.7 18

12 23	9 8.63	+16 41.0	1.893	2.688	14.7	19.9
1 2	9 4.39	+17 14.3	1.804	2.684	11.4	19.6
1 12	8 57.66	+17 58.5	1.738	2.680	7.5	19.4
1 22	8 49.03	+18 49.4	1.698	2.675	3.1	19.1
2 1	8 39.42	+19 41.5	1.687	2.671	1.6	19.0
2 11	8 30.03	+20 29.2	1.706	2.666	6.1	19.3
2 21	8 22.00	+21 8.2	1.751	2.661	10.3	19.5
3 2	8 16.20	+21 36.5	1.821	2.656	14.0	19.7

214537 2006 MV_9 1 28.9 167°.44 0°.8/29.4 18

12 23	9 10.79	+13 48.2	2.190	2.965	13.7	21.4
1 2	9 5.58	+14 8.7	2.103	2.970	10.7	21.3
1 12	8 58.18	+14 39.7	2.040	2.974	7.1	21.0
1 22	8 49.16	+15 18.2	2.004	2.978	3.2	20.8
2 1	8 39.38	+16 0.3	1.998	2.981	1.3	20.7
2 11	8 29.85	+16 41.6	2.023	2.984	5.2	20.9
2 21	8 21.54	+17 18.5	2.076	2.985	9.0	21.2
3 2	8 15.20	+17 48.6	2.156	2.987	12.2	21.4

350258 2012 TU_{151} 1 28.9 51°.03 1°.9/29.8 17

12 23	9 10.39	+12 15.0	1.198	2.011	20.6	21.4
1 2	9 6.64	+12 22.2	1.138	2.024	16.1	21.2
1 12	8 59.49	+12 48.2	1.096	2.038	10.9	20.9
1 22	8 49.83	+13 29.5	1.078	2.053	5.2	20.7
2 1	8 39.10	+14 19.6	1.084	2.067	2.3	20.5
2 11	8 29.07	+15 10.7	1.116	2.083	7.5	20.9
2 21	8 21.23	+15 56.4	1.173	2.098	12.7	21.2
3 2	8 16.58	+16 32.5	1.250	2.114	17.2	21.5

279958 2001 SX_{235} 1 28.9 101°.23 2°.3/27.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 8.85	+24 15.0	2.592	3.384	11.3	21.0
1 2	9 3.74	+24 56.2	2.525	3.404	8.6	20.9
1 12	8 56.77	+25 39.6	2.483	3.423	5.7	20.7
1 22	8 48.50	+26 20.8	2.470	3.443	2.9	20.5
2 1	8 39.71	+26 55.7	2.487	3.461	2.9	20.6
2 11	8 31.27	+27 21.0	2.535	3.480	5.5	20.8
2 21	8 23.97	+27 35.5	2.612	3.498	8.3	21.0
3 2	8 18.40	+27 39.1	2.713	3.516	10.8	21.2

360376 2002 CE_{51} 1 28.9 358°.22 0°.5/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.16	+15 6.0	1.213	2.039	19.6	20.7
1 2	9 3.63	+15 22.5	1.140	2.036	15.3	20.4
1 12	8 57.73	+15 55.5	1.086	2.034	10.2	20.1
1 22	8 49.20	+16 40.8	1.055	2.033	4.4	19.7
2 1	8 39.36	+17 31.5	1.048	2.033	1.8	19.6
2 11	8 29.96	+18 19.7	1.067	2.033	7.8	19.9
2 21	8 22.58	+18 59.3	1.109	2.035	13.2	20.2
3 2	8 18.36	+19 26.5	1.171	2.038	17.9	20.5

179732 2002 RC_{101} 1 28.9 0°.56 24°.7/14.3 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 32.11	+67 21.6	1.096	1.850	25.6	17.4
1 2	9 30.74	+69 25.1	1.072	1.845	25.0	17.3
1 12	9 18.86	+70 48.0	1.061	1.842	24.7	17.3
1 22	8 58.44	+71 11.1	1.061	1.841	24.8	17.3
2 1	8 35.64	+70 21.2	1.074	1.843	25.3	17.3
2 11	8 17.64	+68 20.1	1.099	1.847	26.1	17.4
2 21	8 7.89	+65 22.5	1.136	1.854	27.1	17.5
3 2	8 6.21	+61 45.9	1.185	1.863	28.1	17.7

191247 2002 YM_{29} 1 28.9 31°.18 0°.1/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.95	+17 54.1	1.317	2.132	18.9	19.7
1 2	9 8.56	+17 47.8	1.245	2.135	14.7	19.4
1 12	9 0.77	+17 51.4	1.193	2.138	9.7	19.2
1 22	8 50.40	+18 0.9	1.164	2.142	4.1	18.9
2 1	8 38.86	+18 11.4	1.162	2.146	1.8	18.7
2 11	8 27.90	+18 18.2	1.186	2.151	7.5	19.1
2 21	8 19.08	+18 18.4	1.235	2.155	12.8	19.4
3 2	8 13.45	+18 11.2	1.306	2.160	17.2	19.7

111160 2001 VE_{108} 1 28.9 107°.33 0°.7/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.46	+18 52.2	2.645	3.429	11.3	20.8
1 2	9 2.60	+19 18.6	2.571	3.446	8.7	20.6
1 12	8 56.01	+19 50.2	2.521	3.462	5.6	20.5
1 22	8 48.19	+20 24.0	2.501	3.478	2.3	20.3
2 1	8 39.87	+20 56.3	2.511	3.493	1.4	20.2
2 11	8 31.84	+21 24.1	2.552	3.509	4.6	20.5
2 21	8 24.85	+21 45.2	2.622	3.524	7.6	20.7
3 2	8 19.47	+21 58.7	2.718	3.538	10.3	20.9

375443 2008 TM_{84} 1 28.9 112°.62 0°.6/28.6 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.48	+18 13.7	2.201	2.992	13.1	21.5
1 2	9 3.80	+18 36.2	2.122	2.999	10.1	21.3
1 12	8 56.99	+19 5.6	2.066	3.007	6.5	21.1
1 22	8 48.66	+19 38.5	2.037	3.015	2.7	20.8
2 1	8 39.65	+20 10.7	2.039	3.022	1.5	20.7
2 11	8 30.95	+20 38.4	2.070	3.029	5.3	21.0
2 21	8 23.48	+20 59.0	2.130	3.036	8.9	21.3
3 2	8 17.94	+21 11.3	2.214	3.043	12.0	21.5

234201 2000 QK_{208} 1 28.9 174°.31 3°.6/31.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.91	+ 4 53.3	2.103	2.849	15.1	21.3
1 2	9 5.00	+ 5 8.0	2.012	2.853	12.2	21.1
1 12	8 57.87	+ 5 40.3	1.942	2.856	8.9	20.9
1 22	8 49.08	+ 6 29.1	1.899	2.858	5.4	20.7
2 1	8 39.44	+ 7 31.3	1.885	2.859	3.6	20.6
2 11	8 30.02	+ 8 41.6	1.901	2.860	5.8	20.7
2 21	8 21.77	+ 9 54.4	1.946	2.859	9.2	20.9
3 2	8 15.49	+11 4.2	2.018	2.858	12.6	21.2

469020 2015 AS_{239} 1 28.9 313°.02 1°.0/28.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.35	+17 29.5	2.086	2.884	13.5	21.0
1 2	9 1.69	+18 19.5	1.995	2.878	10.4	20.8
1 12	8 55.82	+19 19.8	1.928	2.872	6.8	20.5
1 22	8 48.25	+20 26.1	1.888	2.866	2.8	20.3
2 1	8 39.80	+21 32.4	1.878	2.860	1.9	20.2
2 11	8 31.53	+22 33.1	1.897	2.855	5.9	20.4
2 21	8 24.41	+23 23.8	1.943	2.849	9.7	20.7
3 2	8 19.26	+24 2.2	2.015	2.844	13.0	20.9

183921 2004 CA_{110} 1 28.9 255°.95 4°.5/31.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.87	+ 3 57.6	2.372	3.114	13.6	20.2
1 2	9 1.65	+ 3 31.6	2.278	3.112	11.2	20.0
1 12	8 55.55	+ 3 19.3	2.206	3.110	8.4	19.9
1 22	8 48.07	+ 3 21.1	2.160	3.109	5.8	19.7
2 1	8 39.90	+ 3 36.4	2.142	3.107	4.5	19.6
2 11	8 31.92	+ 4 2.6	2.154	3.105	5.8	19.7
2 21	8 24.91	+ 4 36.3	2.194	3.103	8.5	19.9
3 2	8 19.57	+ 5 13.5	2.259	3.101	11.3	20.0

79246 1994 SC_6 1 28.9 50°.01 1°.5/29.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.30	+12 23.5	1.414	2.216	18.5	19.6
1 2	9 5.24	+12 40.5	1.356	2.238	14.4	19.4
1 12	8 58.28	+13 14.0	1.319	2.259	9.6	19.2
1 22	8 49.26	+13 59.8	1.307	2.281	4.5	19.0
2 1	8 39.43	+14 52.0	1.321	2.304	1.9	18.8
2 11	8 30.25	+15 43.8	1.362	2.327	6.6	19.2
2 21	8 22.97	+16 29.6	1.428	2.350	11.2	19.5
3 2	8 18.40	+17 6.0	1.518	2.373	15.2	19.8

238326 2004 AG_5 1 28.9 333°.04 1°.7/27.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 3.55	+18 46.3	1.747	2.562	15.0	19.3
1 2	9 0.84	+19 38.4	1.654	2.546	11.6	19.0
1 12	8 55.55	+20 42.4	1.583	2.531	7.6	18.8
1 22	8 48.23	+21 53.0	1.538	2.516	3.3	18.5
2 1	8 39.81	+23 3.1	1.521	2.502	2.6	18.4
2 11	8 31.52	+24 5.5	1.532	2.489	7.0	18.6
2 21	8 24.57	+24 55.1	1.568	2.477	11.3	18.8
3 2	8 19.95	+25 29.3	1.628	2.466	15.2	19.1

500306 2012 QY_{46} 1 28.9 67°.02 2°.7/27.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.58	+25 28.9	2.156	2.956	13.0	21.0
1 2	9 5.47	+25 50.9	2.084	2.966	10.0	20.8
1 12	8 58.09	+26 14.1	2.035	2.977	6.6	20.6
1 22	8 49.11	+26 34.0	2.014	2.987	3.5	20.4
2 1	8 39.49	+26 46.3	2.023	2.998	3.3	20.4
2 11	8 30.30	+26 48.0	2.061	3.008	6.3	20.6
2 21	8 22.52	+26 38.4	2.126	3.019	9.6	20.9
3 2	8 16.86	+26 18.4	2.216	3.030	12.5	21.1

396619 2001 TU_{26} 1 28.9 84°.18 5°.1/31.6 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.19	+ 5 15.2	1.505	2.274	19.1	21.2
1 2	9 7.27	+ 4 53.0	1.441	2.294	15.4	21.0
1 12	8 59.54	+ 4 51.3	1.397	2.315	11.3	20.8
1 22	8 49.78	+ 5 10.0	1.377	2.335	7.2	20.7
2 1	8 39.20	+ 5 46.2	1.383	2.355	5.1	20.6
2 11	8 29.21	+ 6 34.5	1.417	2.375	7.4	20.8
2 21	8 21.02	+ 7 28.3	1.476	2.394	11.2	21.0
3 2	8 15.49	+ 8 21.5	1.559	2.413	14.9	21.3

382219 2012 QE_{21} 1 28.9 282°.56 5°.1/ 1.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 4.78	+ 1 48.5	2.225	2.964	14.5	20.6
1 2	9 1.02	+ 1 32.9	2.125	2.955	12.1	20.4
1 12	8 55.27	+ 1 34.3	2.047	2.947	9.3	20.2
1 22	8 48.00	+ 1 53.2	1.994	2.938	6.5	20.0
2 1	8 39.94	+ 2 28.6	1.968	2.930	5.1	19.9
2 11	8 32.01	+ 3 17.4	1.971	2.921	6.4	20.0
2 21	8 25.07	+ 4 14.9	2.001	2.913	9.1	20.1
3 2	8 19.87	+ 5 15.9	2.057	2.904	12.1	20.3

22320 1991 PH_{18} 1 28.9 183°.06 2°.7/30.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.08	+ 6 57.1	2.208	2.961	14.2	19.5
1 2	9 4.30	+ 7 20.7	2.114	2.962	11.4	19.3
1 12	8 57.40	+ 8 0.4	2.042	2.962	8.1	19.1
1 22	8 48.89	+ 8 54.2	1.997	2.962	4.6	18.9
2 1	8 39.57	+ 9 58.8	1.982	2.961	2.8	18.7
2 11	8 30.42	+11 8.9	1.998	2.959	5.3	18.9
2 21	8 22.37	+12 19.1	2.043	2.956	8.9	19.1
3 2	8 16.19	+13 24.8	2.114	2.953	12.1	19.3

313858 2004 FZ_9 1 28.9 255°.82 4°.0/26.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.87	+28 0.1	1.925	2.725	14.3	21.2
1 2	9 9.39	+28 26.8	1.832	2.713	11.2	21.0
1 12	9 1.05	+28 53.9	1.762	2.700	7.7	20.7
1 22	8 50.50	+29 15.1	1.718	2.687	4.6	20.5
2 1	8 38.86	+29 24.3	1.704	2.674	4.6	20.5
2 11	8 27.52	+29 17.9	1.718	2.661	7.9	20.7
2 21	8 17.78	+28 55.3	1.760	2.647	11.6	20.9
3 2	8 10.65	+28 18.6	1.824	2.633	15.0	21.0

138215 2000 EJ_{181} 1 28.9 111°.33 5°.5/25.6 18 R

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 13.24	+29 59.6	1.811	2.619	14.8	19.4
1 2	9 8.19	+31 8.6	1.744	2.628	11.6	19.2
1 12	9 0.23	+32 17.5	1.700	2.636	8.2	19.0
1 22	8 50.12	+33 18.0	1.683	2.644	5.8	18.9
2 1	8 39.06	+34 2.0	1.695	2.652	6.2	18.9
2 11	8 28.49	+34 25.0	1.733	2.660	9.0	19.1
2 21	8 19.71	+34 26.2	1.798	2.668	12.3	19.3
3 2	8 13.64	+34 8.4	1.884	2.675	15.3	19.6

496877 2000 SD_{77} 1 28.9 94°.12 2°.3/30.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.60	+10 0.0	1.986	2.758	14.9	21.1
1 2	9 3.99	+10 4.5	1.910	2.772	11.8	20.9
1 12	8 57.18	+10 22.5	1.857	2.786	8.2	20.7
1 22	8 48.77	+10 52.0	1.830	2.800	4.3	20.5
2 1	8 39.67	+11 29.8	1.832	2.813	2.4	20.4
2 11	8 30.93	+12 11.4	1.864	2.826	5.5	20.7
2 21	8 23.51	+12 52.5	1.923	2.839	9.1	20.9
3 2	8 18.13	+13 29.7	2.008	2.852	12.4	21.1

417142 2005 VD_{83} 1 28.9 153°.89 4°.6/ 1.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.99	+ 1 53.0	2.438	3.164	13.7	21.7
1 2	9 3.16	+ 1 41.0	2.350	3.172	11.3	21.6
1 12	8 56.48	+ 1 44.7	2.283	3.180	8.6	21.4
1 22	8 48.46	+ 2 3.9	2.243	3.187	6.0	21.2
2 1	8 39.80	+ 2 37.5	2.232	3.193	4.6	21.2
2 11	8 31.36	+ 3 22.2	2.251	3.199	5.8	21.2
2 21	8 23.92	+ 4 13.9	2.298	3.204	8.4	21.4
3 2	8 18.14	+ 5 8.1	2.372	3.209	11.0	21.6

153771 2001 VV_{33} 1 28.9 102°.19 6°.9/23.9 18

12 23	9 12.85	+33 53.4	1.934	2.740	14.1	19.5
1 2	9 7.89	+35 28.2	1.873	2.751	11.2	19.4
1 12	9 0.05	+37 0.1	1.837	2.762	8.5	19.2
1 22	8 50.06	+38 19.8	1.828	2.773	7.0	19.1
2 1	8 39.09	+39 18.8	1.846	2.783	7.7	19.2
2 11	8 28.57	+39 52.5	1.892	2.794	10.0	19.4
2 21	8 19.79	+40 0.9	1.962	2.804	12.7	19.6
3 2	8 13.69	+39 46.9	2.054	2.814	15.2	19.8

83231 2001 RG_{38} 1 28.9 183°.63 2°.5/30.7 18

12 23	9 8.28	+ 8 27.1	2.252	3.011	13.8	20.9
1 2	9 3.64	+ 8 41.3	2.159	3.012	11.0	20.8
1 12	8 56.94	+ 9 9.5	2.088	3.012	7.7	20.5
1 22	8 48.70	+ 9 50.0	2.045	3.011	4.3	20.3
2 1	8 39.68	+10 39.7	2.031	3.010	2.5	20.2
2 11	8 30.86	+11 34.1	2.047	3.008	5.2	20.4
2 21	8 23.11	+12 28.7	2.093	3.006	8.7	20.6
3 2	8 17.18	+13 19.7	2.164	3.004	11.9	20.8

468361 2016 EC_{171} 1 28.9 153°.03 2°.9/27.2 18

12 23	9 10.39	+24 35.6	2.035	2.838	13.6	21.1
1 2	9 5.60	+25 10.4	1.954	2.839	10.5	20.9
1 12	8 58.36	+25 48.5	1.897	2.840	6.9	20.7
1 22	8 49.31	+26 24.4	1.867	2.841	3.6	20.5
2 1	8 39.43	+26 52.8	1.866	2.841	3.5	20.5
2 11	8 29.89	+27 9.5	1.894	2.842	6.8	20.7
2 21	8 21.77	+27 13.2	1.950	2.843	10.3	20.9
3 2	8 15.89	+27 4.1	2.029	2.844	13.5	21.1

467562 2007 TG_{216} 1 28.9 82°.38 4°.3/25.9 18

12 23	9 9.77	+29 47.8	2.302	3.103	12.3	21.2
1 2	9 4.86	+30 37.0	2.232	3.113	9.5	21.0
1 12	8 57.73	+31 25.3	2.187	3.123	6.7	20.9
1 22	8 49.00	+32 7.0	2.170	3.132	4.5	20.8
2 1	8 39.59	+32 36.7	2.182	3.142	4.8	20.8
2 11	8 30.57	+32 51.3	2.223	3.152	7.2	21.0
2 21	8 22.90	+32 50.1	2.291	3.162	10.0	21.1
3 2	8 17.29	+32 34.6	2.383	3.172	12.5	21.3

143332 2003 AD_{66} 1 28.9 74°.49 2°.3/30.5 18 R

12 23	9 11.14	+ 9 7.5	1.761	2.534	16.6	20.0
1 2	9 6.00	+ 9 29.7	1.704	2.566	13.0	19.9
1 12	8 58.46	+10 8.2	1.669	2.598	8.9	19.7
1 22	8 49.28	+10 59.6	1.660	2.629	4.6	19.5
2 1	8 39.49	+11 59.0	1.679	2.660	2.4	19.4
2 11	8 30.29	+13 0.2	1.728	2.691	5.7	19.7
2 21	8 22.67	+13 58.0	1.805	2.721	9.6	20.0
3 2	8 17.36	+14 48.4	1.906	2.751	13.0	20.3

367821 2011 AR_{79} 1 28.9 145°.04 0°.1/28.9 18

12 23	9 10.11	+16 45.3	2.184	2.968	13.4	21.3
1 2	9 5.06	+16 57.6	2.101	2.974	10.4	21.1
1 12	8 57.85	+17 17.5	2.042	2.981	6.8	20.9
1 22	8 49.06	+17 42.0	2.010	2.986	2.9	20.7
2 1	8 39.56	+18 7.5	2.008	2.992	1.2	20.6
2 11	8 30.38	+18 30.3	2.037	2.997	5.2	20.9
2 21	8 22.44	+18 47.9	2.094	3.002	8.9	21.1
3 2	8 16.48	+18 58.9	2.176	3.007	12.1	21.3

281321 2007 TH_{182} 1 28.9 167°.75 4°.4/ 1.2 18

12 23	9 10.08	+ 2 26.1	2.325	3.052	14.3	22.0
1 2	9 4.89	+ 2 26.4	2.233	3.058	11.7	21.8
1 12	8 57.69	+ 2 43.3	2.163	3.064	8.8	21.6
1 22	8 49.00	+ 3 16.8	2.120	3.068	5.9	21.4
2 1	8 39.58	+ 4 4.6	2.106	3.072	4.4	21.3
2 11	8 30.37	+ 5 3.0	2.123	3.075	5.8	21.4
2 21	8 22.23	+ 6 6.9	2.169	3.077	8.7	21.6
3 2	8 15.88	+ 7 11.3	2.242	3.078	11.6	21.8

334695 2003 CW_{15} 1 28.9 318°.45 3°.9/30.5 18

12 23	9 10.93	+ 9 32.3	2.170	2.931	14.2	19.6
1 2	9 5.78	+ 8 31.2	2.068	2.919	11.5	19.4
1 12	8 58.40	+ 7 38.2	1.989	2.908	8.4	19.2
1 22	8 49.34	+ 6 54.1	1.937	2.897	5.3	19.0
2 1	8 39.42	+ 6 19.5	1.914	2.886	4.0	18.9
2 11	8 29.68	+ 5 54.0	1.921	2.875	6.2	19.0
2 21	8 21.10	+ 5 36.2	1.957	2.865	9.5	19.2
3 2	8 14.46	+ 5 24.0	2.018	2.855	12.7	19.4

292498 2006 TQ_{9} 1 28.9 342°.52 2°.3/30.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 3.76	+ 8 36.4	2.292	3.060	13.3	21.1
1 2	9 0.17	+ 8 55.4	2.200	3.058	10.6	20.9
1 12	8 54.67	+ 9 28.4	2.130	3.056	7.4	20.7
1 22	8 47.76	+10 13.5	2.087	3.054	4.1	20.5
2 1	8 40.15	+11 7.7	2.073	3.053	2.3	20.4
2 11	8 32.70	+12 6.3	2.088	3.051	4.9	20.5
2 21	8 26.25	+13 4.9	2.133	3.050	8.3	20.7
3 2	8 21.48	+13 59.4	2.203	3.049	11.4	20.9

453845 2011 UH_{12} 1 28.9 76°.76 4°.0/26.9 17

12 23	9 15.90	+25 0.2	1.521	2.331	17.0	21.0
1 2	9 10.28	+25 59.1	1.470	2.359	13.0	20.8
1 12	9 1.55	+27 1.3	1.443	2.386	8.6	20.6
1 22	8 50.64	+27 58.3	1.441	2.413	4.7	20.4
2 1	8 38.96	+28 42.0	1.467	2.439	4.8	20.5
2 11	8 28.11	+29 7.4	1.520	2.465	8.4	20.7
2 21	8 19.40	+29 13.9	1.599	2.491	12.3	21.0
3 2	8 13.68	+29 3.7	1.701	2.516	15.6	21.3

406097 2006 UX_{276} 1 28.9 22°.81 2°.6/27.9 18

12 23	9 8.75	+22 21.8	1.164	2.002	19.5	20.5
1 2	9 5.56	+22 41.1	1.112	2.015	14.9	20.3
1 12	8 58.85	+23 7.1	1.078	2.029	9.7	20.0
1 22	8 49.61	+23 32.9	1.068	2.045	4.4	19.8
2 1	8 39.40	+23 51.4	1.082	2.062	3.5	19.8
2 11	8 30.06	+23 57.4	1.121	2.081	8.5	20.1
2 21	8 23.06	+23 49.5	1.183	2.101	13.4	20.5
3 2	8 19.33	+23 28.8	1.265	2.122	17.5	20.8

242579 2005 GX_{61} 1 28.9 336°.31 1°.4/29.8 18

12 23	9 5.57	+12 46.3	1.994	2.781	14.4	21.1
1 2	9 1.88	+12 55.5	1.903	2.776	11.3	20.9
1 12	8 55.95	+13 16.6	1.836	2.772	7.6	20.7
1 22	8 48.35	+13 47.4	1.794	2.767	3.7	20.4
2 1	8 39.90	+14 24.3	1.780	2.763	1.7	20.3
2 11	8 31.68	+15 2.9	1.796	2.760	5.4	20.5
2 21	8 24.65	+15 39.3	1.839	2.756	9.4	20.7
3 2	8 19.61	+16 10.2	1.906	2.753	12.9	21.0

388039 2005 SE_{146} 1 28.9 170°.72 3°.4/27.2 18

12 23	9 15.90	+24 15.3	1.745	2.546	15.6	21.3
1 2	9 10.29	+25 2.7	1.666	2.550	12.0	21.1
1 12	9 1.68	+25 55.1	1.611	2.553	8.0	20.8
1 22	8 50.80	+26 45.2	1.583	2.555	4.2	20.6
2 1	8 38.85	+27 25.6	1.583	2.557	4.1	20.6
2 11	8 27.33	+27 51.0	1.612	2.558	7.9	20.8
2 21	8 17.58	+27 59.7	1.667	2.559	11.9	21.1
3 2	8 10.61	+27 52.6	1.746	2.559	15.4	21.3

217003 2000 SC_{137} 1 28.9 67°.46 5°.8/ 1.7 18

12 23	9 11.67	+ 1 19.0	1.870	2.605	17.0	19.9
1 2	9 6.18	+ 0 49.5	1.816	2.642	14.0	19.8
1 12	8 58.48	+ 0 39.7	1.782	2.679	10.6	19.7
1 22	8 49.28	+ 0 49.9	1.773	2.715	7.5	19.6
2 1	8 39.59	+ 1 18.3	1.792	2.751	5.8	19.5
2 11	8 30.48	+ 2 0.4	1.840	2.787	7.0	19.7
2 21	8 22.87	+ 2 50.9	1.914	2.821	9.7	19.9
3 2	8 17.43	+ 3 44.2	2.014	2.856	12.5	20.1

247593 2002 TE_{171} 1 28.9 126°.97 2°.0/28.0 18

12 23	9 15.53	+23 25.6	1.888	2.683	14.8	20.8
1 2	9 9.57	+23 34.6	1.811	2.692	11.4	20.6
1 12	9 0.95	+23 46.2	1.759	2.700	7.5	20.4
1 22	8 50.41	+23 55.8	1.733	2.708	3.4	20.2
2 1	8 39.08	+23 58.8	1.736	2.716	2.7	20.2
2 11	8 28.27	+23 52.4	1.770	2.724	6.6	20.4
2 21	8 19.14	+23 35.9	1.830	2.731	10.5	20.7
3 2	8 12.51	+23 10.4	1.915	2.738	13.9	20.9

375563 2008 UM_{322} 1 28.9 37°.14 0°.8/29.4 18

12 23	9 8.35	+15 17.1	2.073	2.859	13.9	21.1
1 2	9 3.87	+15 17.8	1.987	2.861	10.8	20.9
1 12	8 57.17	+15 27.2	1.924	2.862	7.2	20.6
1 22	8 48.84	+15 43.0	1.888	2.863	3.2	20.4
2 1	8 39.75	+16 1.9	1.881	2.865	1.3	20.2
2 11	8 30.95	+16 20.5	1.904	2.866	5.3	20.5
2 21	8 23.40	+16 36.1	1.954	2.868	9.2	20.8
3 2	8 17.86	+16 46.6	2.029	2.869	12.5	21.0

100874 1998 HG_{83} 1 28.9 228°.07 1°.8/27.4 18

12 23	9 6.39	+22 31.5	2.892	3.681	10.3	20.5
1 2	9 1.91	+23 11.2	2.794	3.672	7.9	20.3
1 12	8 55.70	+23 54.9	2.721	3.662	5.2	20.1
1 22	8 48.19	+24 38.9	2.678	3.653	2.5	19.9
2 1	8 40.03	+25 19.2	2.665	3.642	2.3	19.9
2 11	8 31.98	+25 52.5	2.684	3.632	5.0	20.1
2 21	8 24.80	+26 16.7	2.731	3.621	7.9	20.2
3 2	8 19.10	+26 31.0	2.804	3.610	10.4	20.4

304293 2006 SQ_{78} 1 28.9 287°.92 47°.7/23.0 16

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 0.41	−55 14.4	0.849	1.329	47.7	20.9
1 2	9 3.89	−61 27.1	0.805	1.283	50.0	20.7
1 12	9 2.88	−67 18.3	0.759	1.234	52.8	20.6
1 22	8 54.98	−72 49.0	0.709	1.182	56.2	20.5
2 1	8 33.85	−78 3.5	0.651	1.128	60.4	20.3
2 11	7 33.28	−83 6.1	0.585	1.071	65.7	20.1
2 21	3 9.34	−86 2.9	0.511	1.014	72.5	19.9
3 2	23 21.48	−80 4.5	0.429	0.958	81.7	19.7

69050 2002 XE_{78} 1 28.9 203°.22 2°.4/30.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.77	+11 29.7	2.137	2.904	14.2	19.6
1 2	9 6.46	+11 11.0	2.041	2.900	11.3	19.4
1 12	8 58.87	+11 2.4	1.969	2.896	7.8	19.1
1 22	8 49.57	+11 2.7	1.923	2.892	4.2	18.9
2 1	8 39.43	+11 10.1	1.906	2.886	2.5	18.8
2 11	8 29.51	+11 22.0	1.920	2.881	5.5	19.0
2 21	8 20.80	+11 35.5	1.963	2.875	9.2	19.2
3 2	8 14.11	+11 48.1	2.031	2.868	12.6	19.4

207612 2006 QQ_{162} 1 28.9 166°.64 0°.9/29.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.85	+13 59.0	2.957	3.723	10.7	21.6
1 2	9 2.03	+14 5.1	2.866	3.728	8.3	21.4
1 12	8 55.64	+14 18.2	2.799	3.731	5.6	21.2
1 22	8 48.13	+14 36.4	2.761	3.735	2.6	21.0
2 1	8 40.10	+14 57.6	2.754	3.737	1.1	20.9
2 11	8 32.26	+15 19.1	2.779	3.740	4.0	21.1
2 21	8 25.26	+15 38.9	2.833	3.742	6.9	21.3
3 2	8 19.67	+15 55.2	2.915	3.744	9.4	21.5

70583 1999 TA_{168} 1 28.9 264°.62 4°.6/31.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 9.15	+ 5 35.4	1.837	2.598	16.4	19.1
1 2	9 5.01	+ 5 17.7	1.730	2.579	13.5	18.8
1 12	8 58.29	+ 5 17.1	1.643	2.559	10.0	18.6
1 22	8 49.47	+ 5 34.1	1.581	2.539	6.4	18.3
2 1	8 39.45	+ 6 7.6	1.546	2.518	4.6	18.2
2 11	8 29.42	+ 6 53.7	1.539	2.497	6.9	18.2
2 21	8 20.59	+ 7 47.2	1.560	2.476	10.9	18.4
3 2	8 13.99	+ 8 42.2	1.604	2.454	14.8	18.6

358680 2007 YS_{20} 1 28.9 118°.77 0°.3/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.18	+16 22.4	2.017	2.801	14.4	21.0
1 2	9 6.75	+16 56.1	1.947	2.820	11.1	20.8
1 12	8 59.00	+17 39.2	1.899	2.839	7.2	20.6
1 22	8 49.60	+18 27.5	1.880	2.856	3.0	20.4
2 1	8 39.49	+19 15.6	1.890	2.874	1.4	20.3
2 11	8 29.80	+19 58.8	1.931	2.890	5.6	20.6
2 21	8 21.54	+20 33.8	2.000	2.906	9.4	20.8
3 2	8 15.44	+20 59.0	2.094	2.921	12.7	21.1

88535 2001 QR_{183} 1 28.9 343°.57 3°.1/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.52	+ 9 20.7	1.293	2.098	19.7	19.5
1 2	9 3.76	+ 9 24.6	1.213	2.093	15.8	19.2
1 12	8 57.81	+ 9 50.0	1.152	2.089	11.1	18.9
1 22	8 49.34	+10 35.5	1.113	2.085	6.0	18.6
2 1	8 39.54	+11 36.2	1.100	2.081	3.3	18.4
2 11	8 30.05	+12 44.2	1.112	2.079	7.5	18.7
2 21	8 22.38	+13 51.3	1.149	2.077	12.7	18.9
3 2	8 17.67	+14 50.8	1.207	2.075	17.3	19.2

221338 2005 WP_{15} 1 28.9 114°.88 2°.6/30.5 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.90	+10 4.9	2.006	2.777	14.8	20.7
1 2	9 4.30	+ 9 56.7	1.923	2.784	11.8	20.5
1 12	8 57.46	+10 1.1	1.862	2.790	8.2	20.3
1 22	8 48.98	+10 16.8	1.827	2.795	4.5	20.0
2 1	8 39.74	+10 41.4	1.822	2.801	2.7	19.9
2 11	8 30.81	+11 11.0	1.845	2.807	5.6	20.1
2 21	8 23.15	+11 42.0	1.896	2.812	9.3	20.4
3 2	8 17.53	+12 10.8	1.973	2.818	12.6	20.6

503386 2016 CZ_{114} 1 28.9 308°.98 4°.3/30.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.18	+ 8 33.3	1.628	2.410	17.3	21.3
1 2	9 4.50	+ 7 57.4	1.530	2.395	14.1	21.0
1 12	8 58.05	+ 7 35.9	1.453	2.379	10.2	20.7
1 22	8 49.39	+ 7 29.5	1.400	2.364	6.3	20.5
2 1	8 39.51	+ 7 37.4	1.374	2.350	4.4	20.3
2 11	8 29.76	+ 7 56.5	1.375	2.335	7.2	20.5
2 21	8 21.44	+ 8 22.6	1.401	2.321	11.5	20.7
3 2	8 15.59	+ 8 51.0	1.450	2.308	15.6	20.9

58706 1998 CD 1 28.9 349°.35 3°.8/27.0 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.74	+23 13.4	1.329	2.158	18.0	19.0
1 2	9 5.63	+24 8.4	1.255	2.154	13.9	18.8
1 12	8 59.10	+25 12.3	1.202	2.151	9.2	18.5
1 22	8 49.88	+26 16.7	1.173	2.148	4.8	18.2
2 1	8 39.32	+27 11.7	1.169	2.145	4.8	18.2
2 11	8 29.19	+27 49.5	1.191	2.144	9.2	18.5
2 21	8 21.11	+28 6.9	1.237	2.143	14.0	18.7
3 2	8 16.22	+28 4.3	1.303	2.142	18.1	19.0

75887 2000 CS_{34} 1 28.9 46°.79 0°.2/29.1 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.61	+14 50.7	1.344	2.156	18.8	18.7
1 2	9 5.65	+15 23.3	1.291	2.179	14.4	18.5
1 12	8 58.66	+16 10.9	1.258	2.203	9.4	18.2
1 22	8 49.52	+17 7.8	1.250	2.227	4.0	18.0
2 1	8 39.55	+18 6.6	1.267	2.251	1.6	17.9
2 11	8 30.31	+18 59.9	1.312	2.276	7.0	18.3
2 21	8 23.06	+19 42.7	1.382	2.302	11.7	18.6
3 2	8 18.68	+20 12.8	1.474	2.327	15.7	18.9

247564 2002 SQ_{27} 1 28.9 117°.11 0°.3/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 11.69	+14 28.3	2.203	2.977	13.6	21.9
1 2	9 6.15	+15 1.9	2.132	3.000	10.5	21.7
1 12	8 58.50	+15 45.4	2.086	3.022	6.9	21.5
1 22	8 49.36	+16 35.1	2.068	3.043	2.9	21.3
2 1	8 39.61	+17 26.4	2.080	3.064	1.2	21.2
2 11	8 30.25	+18 14.5	2.123	3.084	5.1	21.5
2 21	8 22.18	+18 56.2	2.196	3.103	8.7	21.8
3 2	8 16.08	+19 29.3	2.294	3.121	11.7	22.0

337905 2001 XP_{89} 1 28.9 145°.14 2°.7/31.7 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 5.78	+ 5 6.7	3.550	4.274	9.8	22.3
1 2	9 0.89	+ 5 5.0	3.461	4.288	7.9	22.2
1 12	8 54.74	+ 5 12.9	3.397	4.301	5.8	22.1
1 22	8 47.73	+ 5 29.7	3.362	4.314	3.7	22.0
2 1	8 40.33	+ 5 54.1	3.358	4.326	2.7	21.9
2 11	8 33.09	+ 6 24.0	3.386	4.338	3.9	22.0
2 21	8 26.55	+ 6 57.1	3.444	4.349	5.9	22.1
3 2	8 21.12	+ 7 31.0	3.530	4.359	7.9	22.3

203242 2001 OA_{36} 1 28.9 200°.78 1°.5/27.8 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 7.49	+21 4.2	2.473	3.265	11.8	21.3
1 2	9 2.98	+21 38.7	2.384	3.263	9.0	21.1
1 12	8 56.51	+22 18.3	2.319	3.261	5.9	20.9
1 22	8 48.58	+22 59.1	2.283	3.259	2.6	20.6
2 1	8 39.95	+23 36.9	2.277	3.257	2.2	20.6
2 11	8 31.52	+24 7.9	2.301	3.254	5.4	20.8
2 21	8 24.14	+24 29.7	2.353	3.251	8.6	21.0
3 2	8 18.51	+24 41.5	2.431	3.248	11.5	21.2

307614 2003 QQ_{80} 1 28.9 116°.02 0°.4/29.2 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 12.56	+14 47.6	1.875	2.659	15.3	22.0
1 2	9 7.20	+15 11.2	1.804	2.677	11.9	21.8
1 12	8 59.38	+15 45.7	1.756	2.694	7.8	21.6
1 22	8 49.79	+16 27.5	1.735	2.711	3.4	21.4
2 1	8 39.45	+17 11.4	1.743	2.727	1.3	21.3
2 11	8 29.57	+17 52.5	1.781	2.743	5.7	21.6
2 21	8 21.20	+18 27.1	1.847	2.758	9.8	21.9
3 2	8 15.14	+18 53.2	1.938	2.772	13.2	22.1

50055 2000 AE_{65} 1 28.9 269°.08 1°.3/28.4 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 14.39	+21 45.3	1.807	2.605	15.2	18.9
1 2	9 9.10	+21 41.7	1.711	2.593	11.9	18.7
1 12	9 0.94	+21 41.9	1.638	2.580	7.8	18.4
1 22	8 50.56	+21 41.8	1.591	2.568	3.4	18.1
2 1	8 39.07	+21 37.4	1.573	2.555	2.2	18.0
2 11	8 27.86	+21 25.4	1.584	2.543	6.7	18.2
2 21	8 18.23	+21 5.0	1.622	2.530	11.1	18.5
3 2	8 11.19	+20 36.6	1.684	2.517	15.0	18.7

52728 1998 GW_{9} 1 28.9 342°.48 7°.1/23.7 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 6.61	+32 57.1	1.833	2.652	14.2	18.4
1 2	9 3.43	+34 31.2	1.757	2.643	11.3	18.2
1 12	8 57.40	+36 5.3	1.704	2.634	8.6	18.1
1 22	8 49.13	+37 29.9	1.677	2.626	7.1	17.9
2 1	8 39.69	+38 35.8	1.677	2.619	7.9	18.0
2 11	8 30.50	+39 16.9	1.703	2.612	10.5	18.1
2 21	8 22.89	+39 31.8	1.754	2.606	13.4	18.3
3 2	8 17.91	+39 22.5	1.824	2.601	16.2	18.5

39457 4167 $T\text{-}_{3}$ 1 28.9 100°.85 0°.3/28.8 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 8.39	+16 7.6	2.006	2.797	14.2	19.9
1 2	9 3.97	+16 43.3	1.930	2.807	10.9	19.7
1 12	8 57.28	+17 29.1	1.876	2.817	7.1	19.4
1 22	8 48.93	+18 21.0	1.850	2.827	3.0	19.2
2 1	8 39.82	+19 13.8	1.853	2.836	1.4	19.1
2 11	8 31.04	+20 2.3	1.885	2.846	5.6	19.4
2 21	8 23.57	+20 42.6	1.945	2.855	9.4	19.6
3 2	8 18.18	+21 12.9	2.030	2.864	12.8	19.9

325977 2010 VP_{162} 1 28.9 203°.57 0°.2/28.9 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
12 23	9 10.48	+17 3.3	2.013	2.802	14.2	21.6
1 2	9 5.68	+17 20.2	1.923	2.799	11.0	21.3
1 12	8 58.48	+17 45.9	1.856	2.796	7.3	21.1
1 22	8 49.47	+18 16.7	1.816	2.793	3.0	20.8
2 1	8 39.57	+18 48.5	1.806	2.789	1.4	20.7
2 11	8 29.92	+19 16.9	1.825	2.785	5.7	21.0
2 21	8 21.58	+19 38.7	1.872	2.781	9.8	21.2
3 2	8 15.39	+19 52.5	1.944	2.777	13.3	21.4

419119 2009 SB_{205} 1 28.9 70°.03 1°.1/28.3 18

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 9.45	+19 20.6	1.879	2.679	14.7	21.7
1 2	9 4.96	+19 46.4	1.803	2.687	11.3	21.5
1 12	8 58.00	+20 19.5	1.751	2.695	7.3	21.3
1 22	8 49.25	+20 55.7	1.725	2.703	3.1	21.1
2 1	8 39.69	+21 29.7	1.728	2.711	2.0	21.0
2 11	8 30.54	+21 57.1	1.760	2.719	6.1	21.3
2 21	8 22.84	+22 15.1	1.819	2.727	10.1	21.5
3 2	8 17.41	+22 22.9	1.902	2.735	13.5	21.8

414889 2010 WX_{50} 1 28.9 224°.36 3°.5/26.7 18

12 23	9 11.81	+25 22.5	2.002	2.803	13.8	21.5
1 2	9 6.94	+26 14.3	1.913	2.796	10.7	21.3
1 12	8 59.45	+27 10.3	1.848	2.789	7.2	21.1
1 22	8 49.93	+28 4.0	1.810	2.781	4.1	20.9
2 1	8 39.37	+28 48.8	1.801	2.773	4.2	20.9
2 11	8 29.04	+29 19.5	1.822	2.764	7.5	21.1
2 21	8 20.13	+29 33.8	1.869	2.755	11.1	21.2
3 2	8 13.58	+29 32.3	1.940	2.746	14.4	21.4

395365 2011 RN_{11} 1 28.9 189°.58 1°.7/30.1 18

12 23	9 12.12	+10 58.4	2.165	2.928	14.2	22.6
1 2	9 6.75	+11 17.7	2.069	2.927	11.2	22.4
1 12	8 59.11	+11 49.9	1.996	2.925	7.7	22.2
1 22	8 49.73	+12 32.8	1.951	2.922	3.8	21.9
2 1	8 39.47	+13 22.5	1.936	2.919	1.9	21.8
2 11	8 29.38	+14 14.2	1.952	2.914	5.3	22.0
2 21	8 20.47	+15 3.6	1.998	2.908	9.2	22.2
3 2	8 13.55	+15 47.2	2.069	2.901	12.6	22.4

276867 2004 RG_{171} 1 28.9 86°.09 1°.8/30.2 18

12 23	9 8.50	+11 9.1	1.984	2.761	14.8	21.2
1 2	9 3.96	+11 21.0	1.911	2.777	11.6	21.0
1 12	8 57.22	+11 45.8	1.860	2.792	7.9	20.8
1 22	8 48.89	+12 21.1	1.836	2.807	4.0	20.6
2 1	8 39.88	+13 3.1	1.840	2.823	2.0	20.5
2 11	8 31.25	+13 47.2	1.875	2.838	5.3	20.8
2 21	8 23.94	+14 29.1	1.937	2.852	9.1	21.0
3 2	8 18.67	+15 5.6	2.024	2.867	12.4	21.3

55158 2001 QS_{230} 1 28.9 38°.58 4°.1/31.8 18

12 23	9 5.19	+ 5 5.5	2.070	2.828	14.9	19.5
1 2	9 1.39	+ 4 53.3	1.989	2.836	12.1	19.3
1 12	8 55.54	+ 4 57.0	1.930	2.844	8.9	19.1
1 22	8 48.20	+ 5 16.2	1.896	2.852	5.8	18.9
2 1	8 40.19	+ 5 49.0	1.890	2.860	4.1	18.8
2 11	8 32.45	+ 6 31.6	1.912	2.869	5.9	19.0
2 21	8 25.86	+ 7 19.5	1.962	2.878	9.0	19.2
3 2	8 21.12	+ 8 7.9	2.037	2.888	12.0	19.4

293298 2007 DD_{24} 1 28.9 137°.71 1°.6/30.1 18

12 23	9 7.74	+11 13.2	2.069	2.845	14.3	21.3
1 2	9 3.42	+11 34.3	1.984	2.850	11.3	21.1
1 12	8 56.92	+12 8.6	1.922	2.855	7.7	20.8
1 22	8 48.81	+12 53.6	1.887	2.859	3.8	20.6
2 1	8 39.92	+13 45.3	1.881	2.864	1.8	20.5
2 11	8 31.29	+14 38.6	1.905	2.868	5.3	20.7
2 21	8 23.86	+15 29.1	1.957	2.872	9.1	21.0
3 2	8 18.40	+16 13.3	2.034	2.876	12.4	21.2

201320 2002 TC_{119} 1 28.9 33°.45 13°.1/23.4 18

12 23	9 28.70	+53 42.0	1.781	2.539	17.0	19.0
1 2	9 21.04	+54 48.2	1.743	2.554	15.2	18.9
1 12	9 8.91	+55 32.4	1.726	2.570	13.7	18.8
1 22	8 53.78	+55 43.5	1.730	2.587	13.1	18.8
2 1	8 37.92	+55 14.7	1.757	2.605	13.5	18.9
2 11	8 23.79	+54 6.7	1.806	2.623	14.6	19.0
2 21	8 13.12	+52 27.0	1.877	2.641	16.2	19.2
3 2	8 6.69	+50 25.2	1.966	2.660	17.8	19.3

1170 Siva 1 28.9 31°.92 20°.0/29.4 18

12 23	9 47.60	+58 21.2	0.956	1.738	26.8	14.7
1 2	9 38.19	+59 22.1	0.941	1.763	24.1	14.7
1 12	9 20.61	+59 42.8	0.939	1.791	21.8	14.6
1 22	8 58.29	+59 3.8	0.953	1.820	20.3	14.6
2 1	8 36.39	+57 17.4	0.985	1.851	20.0	14.7
2 11	8 19.34	+54 33.8	1.036	1.883	20.9	14.9
2 21	8 8.91	+51 14.0	1.106	1.916	22.4	15.1
3 2	8 4.92	+47 38.5	1.193	1.950	24.2	15.4

316620 2011 WY_{63} 1 28.9 28°.08 1°.2/28.5 18

12 23	9 9.37	+19 14.0	1.211	2.040	19.4	21.0
1 2	9 5.98	+19 31.1	1.153	2.051	14.9	20.8
1 12	8 59.17	+19 58.7	1.115	2.064	9.7	20.5
1 22	8 49.86	+20 31.0	1.099	2.077	4.0	20.3
2 1	8 39.52	+21 0.8	1.109	2.092	2.4	20.2
2 11	8 29.92	+21 22.2	1.144	2.107	7.9	20.6
2 21	8 22.55	+21 32.0	1.202	2.123	12.9	20.9
3 2	8 18.37	+21 29.7	1.282	2.140	17.2	21.2

423360 2005 JP_{18} 1 28.9 303°.12 2°.7/27.2 17

2019/20	α_{2000}	δ_{2000}	Δ	r	β	V
	h m	° ′			°	m
12 23	9 7.81	+24 0.2	2.152	2.955	12.9	21.5
1 2	9 3.63	+24 39.1	2.063	2.948	10.0	21.3
1 12	8 57.16	+25 22.2	1.997	2.940	6.6	21.0
1 22	8 48.95	+26 4.3	1.959	2.933	3.4	20.8
2 1	8 39.88	+26 40.2	1.950	2.926	3.3	20.8
2 11	8 31.03	+27 5.6	1.971	2.919	6.5	21.0
2 21	8 23.42	+27 18.3	2.018	2.912	10.0	21.2
3 2	8 17.86	+27 18.1	2.089	2.905	13.1	21.4

496664 2016 BK_{55} 1 28.9 302°.27 1°.6/29.8 17

12 23	9 7.48	+12 39.6	1.621	2.418	16.7	21.5
1 2	9 4.06	+12 46.8	1.525	2.403	13.3	21.2
1 12	8 57.83	+13 8.8	1.450	2.388	9.1	20.9
1 22	8 49.37	+13 43.5	1.399	2.373	4.4	20.6
2 1	8 39.68	+14 26.7	1.375	2.359	2.0	20.4
2 11	8 30.10	+15 12.6	1.379	2.344	6.6	20.6
2 21	8 21.97	+15 55.9	1.409	2.330	11.4	20.9
3 2	8 16.35	+16 32.2	1.462	2.317	15.7	21.1

331563 2001 OJ_{18} 1 28.9 77°.81 3°.5/31.0 18

12 23	9 10.83	+ 8 4.0	2.294	3.045	13.8	20.2
1 2	9 5.32	+ 7 28.2	2.222	3.068	11.0	20.1
1 12	8 57.89	+ 7 3.7	2.174	3.090	7.9	19.9
1 22	8 49.14	+ 6 50.1	2.154	3.112	4.9	19.7
2 1	8 39.88	+ 6 46.6	2.162	3.135	3.5	19.7
2 11	8 31.02	+ 6 50.9	2.201	3.157	5.4	19.8
2 21	8 23.37	+ 7 0.6	2.269	3.178	8.3	20.1
3 2	8 17.55	+ 7 12.8	2.363	3.200	11.1	20.3

364000 2005 UB_{382} 1 28.9 129°.68 4°.8/25.5 18

12 23	9 13.77	+30 29.0	2.313	3.106	12.4	21.5
1 2	9 7.99	+31 35.9	2.247	3.122	9.7	21.4
1 12	8 59.86	+32 41.6	2.207	3.138	6.9	21.2
1 22	8 50.04	+33 39.5	2.195	3.152	4.9	21.1
2 1	8 39.48	+34 23.5	2.212	3.166	5.3	21.2
2 11	8 29.32	+34 49.9	2.260	3.180	7.6	21.3
2 21	8 20.59	+34 58.1	2.334	3.193	10.3	21.5
3 2	8 14.05	+34 49.9	2.432	3.205	12.8	21.7

307760 2003 UY_{401} 1 28.9 225°.52 2°.5/30.3 18

12 23	9 10.12	+10 34.5	1.777	2.556	16.2	21.9
1 2	9 5.72	+10 33.5	1.685	2.551	12.9	21.6
1 12	8 58.71	+10 47.1	1.615	2.546	9.0	21.4
1 22	8 49.67	+11 13.7	1.570	2.540	4.7	21.1
2 1	8 39.59	+11 50.0	1.553	2.534	2.6	21.0
2 11	8 29.72	+12 31.1	1.565	2.528	6.2	21.2
2 21	8 21.24	+13 12.3	1.604	2.522	10.5	21.4
3 2	8 15.11	+13 49.5	1.667	2.515	14.4	21.6

416506 2003 YM_{44} 1 28.9 280°.91 1°.1/29.6 18

12 23	9 9.52	+15 17.0	2.262	3.041	13.1	20.9
1 2	9 4.70	+15 0.2	2.163	3.032	10.3	20.6
1 12	8 57.74	+14 50.2	2.087	3.022	6.9	20.4
1 22	8 49.18	+14 45.5	2.039	3.013	3.2	20.2
2 1	8 39.84	+14 44.0	2.020	3.003	1.5	20.0
2 11	8 30.68	+14 43.3	2.031	2.994	5.1	20.2
2 21	8 22.65	+14 41.7	2.071	2.984	8.8	20.5
3 2	8 16.50	+14 37.7	2.137	2.974	12.1	20.6

28633 Ratripathi 1 28.9 66°.71 3°.6/27.2 18

12 23	9 14.12	+22 17.2	1.291	2.113	18.9	18.2
1 2	9 9.48	+23 21.8	1.240	2.135	14.4	18.0
1 12	9 1.37	+24 34.5	1.210	2.157	9.4	17.8
1 22	8 50.77	+25 45.8	1.204	2.179	4.7	17.6
2 1	8 39.20	+26 45.5	1.225	2.202	4.5	17.6
2 11	8 28.48	+27 26.8	1.272	2.224	8.9	18.0
2 21	8 20.09	+27 47.4	1.344	2.246	13.3	18.3
3 2	8 14.96	+27 48.9	1.436	2.268	17.2	18.6

469177 2016 EP_{37} 1 28.9 203°.37 1°.8/27.4 17

12 23	9 6.99	+21 32.0	2.815	3.602	10.6	21.8
1 2	9 2.44	+22 22.4	2.721	3.598	8.1	21.6
1 12	8 56.12	+23 18.0	2.653	3.593	5.3	21.4
1 22	8 48.47	+24 14.6	2.613	3.588	2.5	21.2
2 1	8 40.14	+25 7.9	2.605	3.583	2.3	21.2
2 11	8 31.94	+25 54.0	2.628	3.577	5.1	21.4
2 21	8 24.62	+26 30.2	2.681	3.570	8.0	21.6
3 2	8 18.83	+26 55.5	2.759	3.564	10.6	21.7

327441 2005 WS_{104} 1 28.9 77°.08 4°.8/25.6 18

12 23	9 10.83	+26 44.4	1.843	2.653	14.5	20.5
1 2	9 6.24	+28 13.3	1.784	2.670	11.2	20.3
1 12	8 58.97	+29 45.2	1.748	2.688	7.7	20.1
1 22	8 49.73	+31 11.4	1.740	2.706	5.0	20.0
2 1	8 39.63	+32 23.7	1.761	2.723	5.5	20.1
2 11	8 29.98	+33 16.0	1.810	2.741	8.4	20.3
2 21	8 21.97	+33 46.8	1.885	2.758	11.7	20.5
3 2	8 16.45	+33 57.3	1.983	2.776	14.6	20.7