2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		489900 2008 *KP*							
	h m	° ′			°	m	°	°	°
3 12	21 10.96	−34 44.5	1.336	0.944	48.0	21.2	45 W	—	35*
3 14	21 24.48	−34 29.2	1.305	0.914	49.5	21.1	44 W	—	34*
3 16	21 38.57	−34 6.9	1.276	0.883	51.0	21.0	44 W	—	33*
3 18	21 53.22	−33 36.5	1.248	0.851	52.6	21.0	43 W	—	32*
3 20	22 8.38	−32 56.9	1.223	0.819	54.1	20.9	42 W	—	30*
3 22	22 24.01	−32 7.2	1.199	0.785	55.7	20.8	41 W	—	29*
3 24	22 40.02	−31 6.3	1.178	0.751	57.2	20.7	39 W	—	27*
3 26	22 56.35	−29 53.3	1.159	0.716	58.7	20.6	38 W	—	25*
3 28	23 12.89	−28 27.3	1.144	0.680	60.2	20.5	36 W	—	23*
3 30	23 29.53	−26 47.7	1.131	0.642	61.4	20.4	34 W	—	21*
4 1	23 46.17	−24 53.9	1.123	0.604	62.5	20.3	32 W	—	19*
4 3	0 2.70	−22 45.6	1.118	0.565	63.2	20.1	30 W	—	16*
4 5	0 19.01	−20 22.6	1.117	0.525	63.6	20.0	28 W	—	14*
4 7	0 35.03	−17 44.7	1.120	0.484	63.4	19.8	26 W	—	11*
4 9	0 50.67	−14 51.8	1.127	0.442	62.4	19.6	23 W	—	8*
4 11	1 5.86	−11 43.2	1.138	0.400	60.3	19.3	20 W	—	6*
4 13	1 20.56	− 8 18.2	1.152	0.358	56.9	19.0	17 W	—	3*
4 15	1 34.71	− 4 35.1	1.170	0.317	51.5	18.7	14 E	—	1*
4 17	1 48.24	− 0 32.1	1.188	0.281	43.7	18.2	11 E	—	—
4 19	2 1.03	+ 3 52.0	1.204	0.252	33.5	17.7	8 E	—	—
4 21	2 12.88	+ 8 34.8	1.216	0.234	23.5	17.3	5 E	—	—
4 22	2 18.41	+11 0.7	1.218	0.232	21.2	17.2	5 E	—	—
4 23	2 23.65	+13 27.5	1.217	0.233	22.3	17.2	5 E	—	—
4 24	2 28.62	+15 53.2	1.215	0.239	26.3	17.4	6 E	—	—
4 25	2 33.36	+18 16.5	1.209	0.249	31.6	17.6	7 E	1*	—
4 26	2 37.90	+20 36.0	1.202	0.262	37.2	17.9	9 E	3*	—
4 27	2 42.31	+22 51.2	1.194	0.277	42.3	18.1	11 E	5*	—
4 28	2 46.63	+25 1.9	1.185	0.294	46.9	18.4	12 E	6*	—
4 29	2 50.92	+27 8.1	1.175	0.313	51.0	18.6	14 E	7*	—
4 30	2 55.23	+29 10.0	1.164	0.332	54.4	18.8	16 E	9*	—
5 1	2 59.60	+31 7.8	1.154	0.353	57.3	19.0	17 E	10*	—
5 3	3 8.64	+34 52.4	1.133	0.395	61.8	19.4	20 E	13*	—
5 5	3 18.32	+38 24.1	1.113	0.437	64.9	19.6	23 E	15*	—
5 7	3 28.87	+41 44.4	1.095	0.479	66.9	19.9	26 E	17*	—
5 9	3 40.51	+44 54.0	1.079	0.520	68.3	20.0	29 E	20*	—
5 11	3 53.49	+47 53.2	1.065	0.560	69.0	20.2	31 E	22*	—
5 13	4 8.03	+50 41.6	1.053	0.599	69.3	20.3	34 E	24*	—
5 15	4 24.38	+53 18.2	1.043	0.638	69.2	20.4	36 E	27*	—
5 17	4 42.76	+55 41.8	1.035	0.675	68.8	20.5	39 E	29*	—
5 19	5 3.36	+57 50.5	1.030	0.711	68.2	20.6	41 E	32*	—
5 21	5 26.28	+59 42.2	1.026	0.747	67.5	20.7	43 E	34*	—
5 23	5 51.46	+61 14.5	1.025	0.781	66.6	20.8	45 E	36*	—
5 25	6 18.64	+62 25.4	1.026	0.815	65.6	20.8	47 E	39*	—
5 27	6 47.29	+63 13.2	1.029	0.847	64.5	20.9	49 E	41*	—
5 29	7 16.69	+63 37.1	1.034	0.879	63.4	20.9	51 E	43*	—
5 31	7 45.97	+63 37.4	1.040	0.910	62.2	21.0	53 E	45*	—
6 1	8 0.30	+63 29.2	1.045	0.925	61.6	21.0	53 E	46*	—
6 2	8 14.30	+63 15.6	1.049	0.940	61.0	21.0	54 E	47*	—
6 3	8 27.89	+62 57.1	1.054	0.955	60.4	21.1	55 E	48*	—
6 4	8 41.01	+62 34.1	1.060	0.970	59.8	21.1	56 E	49*	—
6 5	8 53.61	+62 6.8	1.066	0.984	59.2	21.1	56 E	50*	—
6 6	9 5.65	+61 35.8	1.072	0.998	58.6	21.2	57 E	51*	—
6 7	9 17.14	+61 1.4	1.079	1.012	57.9	21.2	58 E	51*	1*
6 8	9 28.05	+60 23.9	1.086	1.026	57.3	21.2	58 E	52*	2*
6 9	9 38.40	+59 43.9	1.094	1.040	56.7	21.2	59 E	53*	3*
6 10	9 48.19	+59 1.5	1.102	1.054	56.1	21.3	60 E	53*	4*
6 12	10 6.21	+57 31.1	1.119	1.080	54.9	21.3	61 E	55*	6*
6 14	10 22.29	+55 55.2	1.138	1.106	53.8	21.4	62 E	55*	7*
6 16	10 36.65	+54 15.6	1.158	1.132	52.6	21.4	62 E	56*	9*
6 18	10 49.51	+52 33.8	1.180	1.157	51.5	21.5	63 E	56*	11*
		152685 1998 *MZ*							
3 12	21 17.38	−15 35.9	0.544	0.628	115.8	21.4	35 W	7*	29*
3 14	21 15.46	−15 44.7	0.566	0.641	110.6	21.2	37 W	8*	31*
3 16	21 14.44	−15 49.5	0.588	0.656	105.9	21.1	39 W	9*	33*
3 18	21 14.19	−15 50.7	0.610	0.673	101.6	21.0	41 W	9*	35*
3 20	21 14.60	−15 49.1	0.632	0.690	97.7	20.9	43 W	10*	37*
3 22	21 15.56	−15 44.9	0.653	0.707	94.1	20.9	45 W	11*	39*
3 27	21 19.75	−15 26.2	0.703	0.754	86.3	20.9	49 W	12*	43*
4 1	21 25.61	−14 59.3	0.747	0.804	80.1	20.9	52 W	13*	46*
4 6	21 32.38	−14 27.3	0.786	0.855	75.0	21.0	56 W	14*	50*
4 11	21 39.54	−13 52.4	0.819	0.907	70.8	21.0	59 W	14*	53*
4 16	21 46.76	−13 16.2	0.845	0.959	67.3	21.1	62 W	15*	56*
4 21	21 53.80	−12 40.1	0.866	1.010	64.2	21.2	65 W	16*	58*
4 26	22 0.49	−12 4.8	0.882	1.060	61.6	21.3	68 W	17*	61*
5 1	22 6.71	−11 31.4	0.892	1.110	59.2	21.3	71 W	19*	64*
5 6	22 12.38	−11 0.5	0.898	1.158	57.1	21.3	75 W	20*	67*
5 11	22 17.41	−10 32.7	0.899	1.206	55.0	21.4	78 W	21*	69*
5 16	22 21.74	−10 8.5	0.897	1.252	53.1	21.4	82 W	23*	72*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		152685 1998 *MZ* *(continuation)*							
	h m	° ′			°	m	°	°	°
5 21	22 25.28	− 9 48.6	0.890	1.296	51.1	21.4	86 W	24*	73*
5 26	22 27.94	− 9 33.6	0.881	1.340	49.1	21.4	90 W	26*	74*
5 31	22 29.64	− 9 24.1	0.869	1.382	47.0	21.4	94 W	28*	73
6 5	22 30.29	− 9 20.8	0.855	1.422	44.8	21.3	99 W	30*	73
6 10	22 29.82	− 9 24.1	0.839	1.462	42.4	21.3	104 W	31*	73
6 15	22 28.12	− 9 34.5	0.823	1.500	39.9	21.2	109 W	33*	74
6 20	22 25.08	− 9 52.7	0.806	1.537	37.0	21.2	114 W	34*	74
6 25	22 20.63	−10 18.8	0.790	1.572	33.9	21.1	120 W	34*	74
6 30	22 14.73	−10 52.8	0.776	1.606	30.5	21.0	127 W	34*	75
7 5	22 7.39	−11 34.3	0.765	1.639	26.8	20.9	133 W	33	76
7 10	21 58.68	−12 22.2	0.756	1.671	22.8	20.8	140 W	33	76
7 15	21 48.73	−13 15.3	0.753	1.701	18.6	20.7	148 W	32	77
7 20	21 37.78	−14 11.5	0.754	1.731	14.1	20.6	155 W	31	78
7 25	21 26.16	−15 8.5	0.762	1.759	9.6	20.5	163 W	30	79
7 30	21 14.28	−16 4.0	0.776	1.786	5.1	20.3	171 W	29	80
8 4	21 2.57	−16 55.8	0.797	1.811	0.8	20.1	179 W	28	81
8 9	20 51.42	−17 42.3	0.825	1.836	3.4	20.4	174 E	27	82
8 14	20 41.16	−18 22.6	0.859	1.860	7.3	20.8	166 E	27	82
8 19	20 32.06	−18 56.4	0.900	1.882	10.9	21.0	159 E	26	83
8 24	20 24.29	−19 23.8	0.947	1.903	14.1	21.3	153 E	26	83
8 29	20 17.94	−19 45.2	1.000	1.924	16.9	21.5	146 E	25	84
9 3	20 12.99	−20 1.1	1.057	1.943	19.4	21.7	140 E	25	84
		370577 2003 UG_{270}							
3 12	21 33.71	−19 39.6	3.118	2.342	13.2	21.5	33 W	2*	26*
3 22	21 51.35	−17 35.4	3.014	2.308	15.3	21.5	38 W	4*	32*
4 1	22 8.63	−15 24.4	2.901	2.273	17.4	21.4	43 W	6*	37*
4 11	22 25.54	−13 6.9	2.780	2.238	19.4	21.4	48 W	8*	42*
4 21	22 42.09	−10 42.8	2.653	2.202	21.4	21.3	53 W	11*	47*
5 1	22 58.27	− 8 12.1	2.521	2.166	23.3	21.2	58 W	14*	52*
5 11	23 14.07	− 5 34.7	2.384	2.130	25.0	21.1	63 W	17*	56*
5 21	23 29.49	− 2 50.3	2.245	2.093	26.7	21.0	68 W	21*	59*
5 31	23 44.49	+ 0 1.6	2.104	2.056	28.2	20.8	73 W	26*	61*
6 10	23 59.04	+ 3 1.7	1.963	2.020	29.5	20.7	78 W	31*	60*
6 20	0 13.08	+ 6 10.8	1.823	1.983	30.6	20.5	83 W	37*	58
6 30	0 26.49	+ 9 30.0	1.686	1.947	31.5	20.3	89 W	44*	54
7 10	0 39.17	+13 0.5	1.553	1.911	32.1	20.1	94 W	52*	51
7 20	0 50.90	+16 43.8	1.425	1.876	32.3	19.9	99 W	59*	47
7 30	1 1.38	+20 40.7	1.304	1.842	32.3	19.7	104 W	65*	43
8 9	1 10.26	+24 52.0	1.191	1.808	31.8	19.4	110 W	70	39
8 14	1 13.93	+27 3.0	1.138	1.792	31.4	19.3	113 W	72	37
8 19	1 16.98	+29 17.1	1.088	1.776	31.0	19.2	115 W	74	35
8 24	1 19.30	+31 33.8	1.041	1.761	30.4	19.0	118 W	77	32
8 29	1 20.81	+33 52.4	0.997	1.746	29.8	18.9	121 W	79	30
9 3	1 21.39	+36 11.9	0.957	1.731	29.1	18.8	123 W	81	28
9 8	1 20.93	+38 31.0	0.919	1.717	28.4	18.6	126 W	84	25
9 13	1 19.30	+40 47.8	0.886	1.703	27.6	18.5	128 W	86	23
9 18	1 16.40	+43 0.1	0.856	1.690	26.9	18.4	130 W	88	21
9 23	1 12.18	+45 5.3	0.829	1.677	26.3	18.3	132 W	90	19
9 28	1 6.64	+47 0.6	0.807	1.665	25.7	18.2	134 W	88	17
10 3	0 59.89	+48 43.5	0.788	1.654	25.4	18.1	135 W	86	15
10 8	0 52.12	+50 11.3	0.773	1.643	25.1	18.1	136 E	85	14
10 13	0 43.64	+51 21.8	0.762	1.633	25.1	18.0	136 E	84	13
10 18	0 34.90	+52 13.7	0.754	1.624	25.3	18.0	136 E	83	12
10 20	0 31.45	+52 29.2	0.752	1.621	25.4	18.0	136 E	83	12
10 22	0 28.08	+52 41.7	0.750	1.617	25.6	18.0	135 E	82	11
10 24	0 24.83	+52 51.3	0.749	1.614	25.8	18.0	135 E	82	11
10 26	0 21.73	+52 58.1	0.748	1.611	26.0	18.0	135 E	82	11
10 28	0 18.80	+53 2.3	0.748	1.608	26.2	18.0	134 E	82	11
11 2	0 12.45	+53 1.7	0.749	1.601	26.9	18.0	133 E	82	11
11 7	0 7.73	+52 47.6	0.754	1.595	27.6	18.0	132 E	82	11
11 12	0 4.89	+52 22.4	0.760	1.590	28.5	18.1	130 E	83	12
11 17	0 4.06	+51 48.8	0.770	1.585	29.3	18.1	128 E	83	12
11 22	0 5.28	+51 9.5	0.781	1.582	30.1	18.2	126 E	84	13
11 27	0 8.46	+50 26.6	0.795	1.579	31.0	18.2	125 E	85	14
12 2	0 13.48	+49 41.8	0.810	1.578	31.8	18.3	123 E	85	14
12 7	0 20.17	+48 56.3	0.827	1.577	32.5	18.3	121 E	86	15
12 12	0 28.39	+48 10.9	0.847	1.577	33.2	18.4	119 E	87	16*
12 17	0 37.97	+47 26.1	0.868	1.578	33.9	18.5	117 E	88	16*
12 22	0 48.77	+46 42.5	0.891	1.580	34.4	18.6	115 E	88	17*
12 27	1 0.61	+46 0.1	0.916	1.583	34.9	18.6	113 E	89	17*
1 1	1 13.33	+45 18.8	0.943	1.586	35.4	18.7	111 E	90	18*
1 6	1 26.79	+44 38.4	0.972	1.591	35.8	18.8	109 E	90	18*
1 11	1 40.87	+43 58.7	1.003	1.596	36.1	18.9	107 E	89	19*
1 16	1 55.44	+43 19.5	1.036	1.603	36.4	19.0	105 E	88	19*
		153002 2000 JG_5							
3 12	21 38.59	+ 5 45.0	2.012	1.241	22.9	21.3	29 W	20*	15*
3 22	22 13.00	+ 8 1.9	1.868	1.108	25.9	21.0	29 W	19*	16*
4 1	22 53.10	+10 29.7	1.727	0.961	28.9	20.6	28 W	17*	15*
4 11	23 41.14	+12 57.4	1.596	0.799	31.2	20.1	24 W	14*	13*

153002 2000 JG_5 *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 16	0 9.07	+14 4.5	1.536	0.711	31.7	19.7	22 W	12*	11*
4 21	0 40.24	+15 1.3	1.481	0.619	31.2	19.3	19 W	9*	9*
4 26	1 15.21	+15 41.3	1.432	0.523	28.9	18.8	15 W	5*	6*
5 1	1 54.65	+15 56.6	1.386	0.425	22.8	18.1	9 W	1*	2*
5 6	2 39.31	+15 39.4	1.338	0.336	10.1	17.1	3 W	—	—
5 11	3 29.15	+14 51.6	1.270	0.279	18.7	16.9	5 E	—	—
5 13	3 49.90	+14 29.7	1.233	0.274	31.6	17.2	8 E	—	2*
5 15	4 10.56	+14 10.6	1.192	0.281	44.5	17.5	11 E	—	5*
5 17	4 30.85	+13 56.7	1.148	0.299	56.1	17.9	14 E	—	8*
5 19	4 50.69	+13 48.7	1.103	0.326	65.4	18.3	17 E	—	11*
5 21	5 10.15	+13 46.1	1.060	0.359	72.5	18.6	20 E	1*	13*
5 23	5 29.39	+13 47.8	1.021	0.395	77.6	18.9	22 E	3*	16*
5 25	5 48.54	+13 52.5	0.985	0.433	81.1	19.2	25 E	5*	18*
5 27	6 7.70	+13 58.9	0.954	0.472	83.2	19.4	28 E	6*	21*
5 29	6 26.93	+14 5.7	0.928	0.511	84.3	19.5	30 E	8*	23*
5 31	6 46.22	+14 11.8	0.906	0.550	84.5	19.6	33 E	10*	25*
6 2	7 5.53	+14 16.3	0.889	0.588	84.1	19.7	35 E	11*	27*
6 4	7 24.80	+14 18.5	0.877	0.626	83.1	19.8	38 E	13*	29*
6 6	7 43.92	+14 17.8	0.869	0.664	81.7	19.9	40 E	15*	31*
6 8	8 2.79	+14 13.7	0.865	0.700	80.1	19.9	43 E	16*	33*
6 10	8 21.29	+14 6.2	0.866	0.736	78.2	20.0	45 E	18*	35*
6 15	9 5.24	+13 33.0	0.884	0.822	72.9	20.1	51 E	21*	39*
6 20	9 45.00	+12 42.7	0.923	0.905	67.6	20.2	55 E	24*	43*
6 25	10 20.10	+11 41.5	0.978	0.983	62.5	20.3	59 E	26*	46*
6 30	10 50.70	+10 35.2	1.045	1.057	57.8	20.5	62 E	27*	48*
7 5	11 17.29	+ 9 27.7	1.122	1.127	53.8	20.7	63 E	27*	49*
7 10	11 40.49	+ 8 21.4	1.205	1.195	50.1	20.9	64 E	28*	50*
7 15	12 0.93	+ 7 17.3	1.292	1.259	46.9	21.0	65 E	28*	51*
7 20	12 19.12	+ 6 16.0	1.383	1.320	44.1	21.2	65 E	27*	52*
7 25	12 35.50	+ 5 17.5	1.476	1.379	41.5	21.4	64 E	27*	52*

342866 2008 YU_{32}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 12	21 55.06	−11 17.7	1.407	0.652	39.4	21.5	25 W	5*	18*
3 17	22 25.29	− 8 23.9	1.439	0.632	35.5	21.3	22 W	3*	15*
3 22	22 54.82	− 5 24.6	1.478	0.622	30.9	21.2	19 W	2*	13*
3 27	23 23.54	− 2 24.6	1.521	0.624	26.0	21.2	16 W	1*	10*
4 1	23 51.39	+ 0 31.7	1.566	0.637	21.1	21.1	13 W	—	7*
4 6	0 18.29	+ 3 20.4	1.614	0.660	16.7	21.1	11 W	—	5*
4 11	0 44.22	+ 5 58.8	1.664	0.691	12.9	21.2	9 W	—	3*
4 16	1 9.16	+ 8 24.9	1.715	0.729	9.8	21.2	7 W	—	1*
4 21	1 33.14	+10 37.9	1.766	0.773	7.4	21.3	6 W	—	—
4 26	1 56.17	+12 37.3	1.819	0.819	5.6	21.4	5 W	—	—

471926 Jörmungandr

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 12	22 9.54	+ 2 56.5	2.075	1.200	17.1	21.5	21 W	12*	9*
3 22	22 42.62	+ 5 25.6	1.912	1.048	20.2	21.1	21 W	12*	10*
4 1	23 22.13	+ 8 14.6	1.747	0.880	23.1	20.6	20 W	11*	10*
4 11	0 11.27	+11 16.3	1.586	0.691	24.9	19.9	17 W	8*	7*
4 16	0 41.03	+12 45.6	1.509	0.587	24.4	19.5	14 W	5*	5*
4 21	1 15.50	+14 6.3	1.433	0.477	21.6	18.8	10 W	2*	2*
4 26	1 56.04	+15 7.4	1.356	0.363	13.3	17.8	5 W	—	—
5 1	2 44.08	+15 31.2	1.261	0.258	10.2	16.8	3 E	—	—
5 3	3 5.11	+15 26.5	1.209	0.230	26.2	17.0	6 E	—	—
5 5	3 26.15	+15 15.1	1.147	0.218	46.4	17.4	9 E	—	2*
5 7	3 46.00	+15 2.2	1.075	0.228	67.2	17.9	12 E	1*	5*
5 9	4 3.98	+14 53.2	1.000	0.254	84.8	18.6	15 E	2*	8*
5 11	4 20.36	+14 51.0	0.928	0.292	97.9	19.3	17 E	3*	10*
5 13	4 35.78	+14 56.0	0.860	0.335	107.2	19.9	18 E	3*	12*
5 15	4 50.90	+15 7.5	0.797	0.380	113.5	20.4	20 E	4*	13*
5 17	5 6.27	+15 24.6	0.740	0.426	117.7	20.8	22 E	5*	15*
5 19	5 22.30	+15 46.3	0.688	0.472	120.3	21.0	24 E	7*	16*
5 21	5 39.38	+16 11.4	0.641	0.517	121.5	21.2	26 E	8*	18*
5 23	5 57.79	+16 38.7	0.599	0.561	121.5	21.2	28 E	10*	20*
5 25	6 17.79	+17 6.3	0.562	0.604	120.6	21.1	31 E	12*	22*
5 27	6 39.55	+17 32.0	0.530	0.646	118.7	21.0	34 E	14*	24*
5 29	7 3.11	+17 53.4	0.503	0.687	116.0	20.8	37 E	17*	27*
5 31	7 28.39	+18 7.3	0.481	0.726	112.6	20.6	41 E	20*	30*
6 2	7 55.10	+18 11.0	0.465	0.765	108.6	20.4	46 E	23*	33*
6 4	8 22.80	+18 2.0	0.455	0.803	104.1	20.2	50 E	26*	36*
6 6	8 50.84	+17 39.3	0.450	0.840	99.2	20.1	55 E	29*	39*
6 8	9 18.57	+17 3.2	0.451	0.876	94.3	19.9	59 E	31*	42*
6 10	9 45.33	+16 15.5	0.458	0.911	89.3	19.9	64 E	34*	44*
6 12	10 10.62	+15 18.8	0.470	0.946	84.6	19.8	68 E	36*	47*
6 14	10 34.09	+14 16.4	0.486	0.979	80.1	19.8	72 E	38*	49*
6 16	10 55.61	+13 11.2	0.507	1.012	75.9	19.8	75 E	39*	50*
6 18	11 15.15	+12 5.6	0.530	1.045	72.1	19.8	78 E	40*	52*
6 20	11 32.81	+11 1.3	0.557	1.076	68.7	19.9	81 E	41*	53*
6 22	11 48.73	+ 9 59.5	0.586	1.107	65.6	20.0	83 E	41*	54
6 24	12 3.09	+ 9 0.7	0.618	1.138	62.8	20.1	84 E	41*	55

471926 Jörmungandr *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 26	12 16.06	+ 8 5.3	0.651	1.167	60.3	20.2	86 E	41*	56
6 28	12 27.82	+ 7 13.3	0.686	1.197	58.0	20.3	87 E	41*	57
6 30	12 38.52	+ 6 24.6	0.721	1.225	56.0	20.4	88 E	41*	58
7 5	13 1.49	+ 4 35.8	0.816	1.295	51.7	20.6	89 E	40*	59
7 10	13 20.37	+ 3 2.6	0.914	1.361	48.3	20.9	89 E	39*	61
7 15	13 36.35	+ 1 41.6	1.016	1.424	45.5	21.1	89 E	37*	62
7 20	13 50.24	+ 0 29.9	1.120	1.485	43.1	21.4	88 E	36*	64

279744 1998 KM_3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 12	22 16.50	− 9 9.8	1.584	0.721	26.6	21.3	19 W	3*	13*
3 17	22 44.62	− 6 13.1	1.584	0.690	24.0	21.1	16 W	2*	10*
3 22	23 12.87	− 3 9.1	1.592	0.667	20.8	21.0	14 W	1*	8*
3 27	23 41.17	− 0 2.1	1.605	0.653	16.9	20.8	11 W	—	5*
4 1	0 9.40	+ 3 3.0	1.623	0.650	12.8	20.7	8 W	—	2*
4 6	0 37.45	+ 6 1.8	1.646	0.658	8.7	20.6	6 W	—	—
4 11	1 5.21	+ 8 50.3	1.673	0.676	5.0	20.5	3 W	—	—
4 16	1 32.54	+11 25.3	1.704	0.702	2.5	20.5	2 W	—	—
4 21	1 59.34	+13 44.8	1.739	0.736	2.9	20.6	2 E	—	—
4 26	2 25.49	+15 47.5	1.778	0.776	4.5	20.9	4 E	—	—
5 1	2 50.92	+17 33.0	1.819	0.820	6.0	21.1	5 E	—	—
5 6	3 15.55	+19 1.7	1.864	0.867	7.0	21.4	6 E	—	—

455184 2000 ED_{14}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 12	22 30.14	−14 12.0	1.173	0.385	53.5	21.0	18 W	—	12*
3 14	22 45.20	−12 16.2	1.209	0.373	47.3	20.9	16 W	—	10*
3 16	23 0.07	−10 14.3	1.244	0.365	40.5	20.7	14 W	—	7*
3 18	23 14.76	− 8 7.7	1.277	0.362	33.4	20.5	12 W	—	5*
3 20	23 29.22	− 5 57.8	1.309	0.364	26.2	20.4	9 W	—	3*
3 22	23 43.41	− 3 46.7	1.339	0.371	19.4	20.3	7 W	—	1*
3 24	23 57.30	− 1 35.9	1.366	0.382	13.0	20.2	5 W	—	—
3 26	0 10.86	+ 0 32.9	1.391	0.398	7.2	20.0	3 W	—	—
3 28	0 24.10	+ 2 38.5	1.414	0.416	2.2	19.9	1 W	—	—
3 30	0 37.00	+ 4 39.9	1.436	0.437	2.4	20.1	1 E	—	—
4 1	0 49.58	+ 6 36.5	1.456	0.460	6.1	20.4	3 E	—	—
4 6	1 19.78	+11 4.9	1.503	0.522	12.9	21.0	7 E	1*	—
4 11	1 48.44	+14 59.4	1.548	0.587	17.0	21.5	10 E	4*	—
4 16	2 15.85	+18 21.1	1.594	0.651	19.5	21.9	12 E	6*	—
4 21	2 42.20	+21 12.3	1.639	0.713	20.7	22.2	15 E	8*	—

434096 2002 GO_5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 12	22 35.89	−16 45.5	2.338	1.433	12.9	21.5	19 W	—	12*
3 17	22 49.70	−15 7.9	2.266	1.372	14.2	21.4	20 W	—	13*
3 22	23 4.06	−13 22.2	2.193	1.309	15.6	21.2	21 W	—	14*
3 27	23 19.06	−11 27.5	2.120	1.245	17.0	21.1	21 W	—	15*
4 1	23 34.79	− 9 22.9	2.046	1.178	18.3	21.0	22 W	—	15*
4 6	23 51.38	− 7 7.4	1.974	1.110	19.7	20.8	22 W	—	15*
4 11	0 8.96	− 4 40.2	1.903	1.041	20.9	20.6	22 W	—	15*
4 16	0 27.71	− 2 0.3	1.835	0.969	21.9	20.4	21 W	—	15*
4 21	0 47.85	+ 0 52.8	1.770	0.896	22.7	20.2	20 W	—	14*
5 1	1 33.36	+ 7 18.7	1.654	0.747	22.8	19.6	17 W	—	11*
5 11	2 28.32	+14 26.5	1.560	0.601	18.8	18.9	11 W	—	5*
5 21	3 36.63	+21 31.2	1.487	0.482	8.0	17.9	4 W	—	—
5 23	3 52.18	+22 47.4	1.474	0.466	6.2	17.8	3 W	—	—
5 25	4 8.35	+23 58.1	1.461	0.453	6.8	17.7	3 E	—	—
5 27	4 25.09	+25 2.0	1.448	0.444	9.8	17.8	4 E	—	—
5 29	4 42.33	+25 57.8	1.435	0.440	14.0	17.9	6 E	—	—
5 31	4 59.97	+26 44.3	1.422	0.441	18.5	18.0	8 E	2*	—
6 2	5 17.89	+27 20.8	1.409	0.446	23.1	18.2	10 E	3*	—
6 4	5 35.97	+27 46.7	1.397	0.456	27.5	18.3	12 E	5*	1*
6 6	5 54.08	+28 1.6	1.385	0.469	31.5	18.5	14 E	6*	3*
6 8	6 12.08	+28 5.9	1.374	0.486	35.1	18.7	16 E	8*	5*
6 10	6 29.89	+27 59.6	1.365	0.506	38.1	18.8	18 E	9*	7*
6 12	6 47.39	+27 43.5	1.357	0.529	40.7	19.0	20 E	10*	8*
6 14	7 4.52	+27 18.2	1.351	0.554	42.7	19.1	22 E	11*	10*
6 16	7 21.21	+26 44.5	1.347	0.580	44.3	19.3	24 E	12*	12*
6 18	7 37.41	+26 3.3	1.345	0.607	45.5	19.4	25 E	12*	14*
6 20	7 53.09	+25 15.5	1.345	0.636	46.3	19.5	27 E	13*	16*
6 22	8 8.22	+24 21.9	1.348	0.665	46.9	19.6	29 E	13*	18*
6 24	8 22.79	+23 23.5	1.352	0.694	47.1	19.7	30 E	14*	19*
6 26	8 36.80	+22 21.1	1.359	0.724	47.2	19.8	31 E	14*	21*
6 28	8 50.24	+21 15.6	1.368	0.754	47.0	19.9	33 E	14*	22*
6 30	9 3.13	+20 7.5	1.379	0.783	46.7	20.0	34 E	14*	24*
7 5	9 33.04	+17 11.1	1.415	0.858	45.4	20.3	37 E	14*	27*
7 10	9 59.91	+14 11.9	1.462	0.932	43.6	20.5	39 E	14*	30*
7 15	10 24.09	+11 16.1	1.518	1.004	41.6	20.6	41 E	14*	33*
7 20	10 45.97	+ 8 27.3	1.582	1.075	39.5	20.8	42 E	13*	35*
7 25	11 5.89	+ 5 47.6	1.652	1.144	37.3	21.0	43 E	12*	36*
7 30	11 24.15	+ 3 17.9	1.727	1.211	35.2	21.2	43 E	11*	37*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
434096 2002 GO_5 *(continuation)*									
	h m	° ′			°	m	°	°	°
8 4	11 41.00	+ 0 58.3	1.805	1.277	33.1	21.3	43 E	10*	37*
8 9	11 56.67	− 1 11.6	1.887	1.340	31.1	21.4	43 E	9*	37*
5869 Tanith									
3 12	22 38.76	+ 3 38.0	2.902	1.956	7.3	21.5	14 W	8*	2*
3 22	23 0.20	+ 5 35.5	2.848	1.918	8.8	21.5	17 W	9*	6*
4 1	23 22.10	+ 7 37.6	2.786	1.879	10.5	21.5	20 W	10*	10*
4 11	23 44.54	+ 9 42.7	2.717	1.839	12.4	21.4	23 W	11*	14*
4 21	0 7.65	+11 49.2	2.642	1.799	14.4	21.4	26 W	12*	17*
5 1	0 31.54	+13 55.2	2.562	1.757	16.4	21.3	30 W	14*	20*
5 11	0 56.36	+15 58.4	2.478	1.714	18.5	21.3	33 W	15*	23*
5 21	1 22.27	+17 56.3	2.391	1.671	20.5	21.2	35 W	17*	25*
5 31	1 49.41	+19 46.1	2.302	1.628	22.6	21.1	38 W	18*	27*
6 10	2 17.90	+21 24.0	2.212	1.585	24.6	21.1	41 W	21*	28*
6 20	2 47.88	+22 46.3	2.123	1.542	26.6	21.0	43 W	23*	29*
6 30	3 19.37	+23 48.6	2.035	1.499	28.6	20.9	45 W	26*	29*
7 10	3 52.34	+24 26.1	1.949	1.458	30.6	20.8	47 W	29*	30*
7 20	4 26.66	+24 34.3	1.866	1.418	32.6	20.7	49 W	31*	30*
7 30	5 2.08	+24 8.8	1.789	1.381	34.4	20.6	50 W	34*	30*
8 9	5 38.25	+23 6.3	1.716	1.346	36.2	20.5	52 W	36*	31*
8 19	6 14.74	+21 25.0	1.650	1.315	37.8	20.4	53 W	38*	31*
8 29	6 51.11	+19 5.1	1.592	1.287	39.3	20.3	54 W	39*	32*
9 8	7 26.98	+16 9.1	1.541	1.265	40.6	20.2	55 W	40*	33*
9 18	8 2.04	+12 41.6	1.499	1.247	41.7	20.2	56 W	40*	35*
9 23	8 19.20	+10 47.9	1.480	1.241	42.1	20.2	56 W	40*	35*
9 28	8 36.08	+ 8 49.0	1.464	1.236	42.5	20.1	56 W	40*	36*
10 3	8 52.69	+ 6 45.6	1.449	1.232	42.9	20.1	57 W	39*	37*
10 8	9 9.02	+ 4 39.0	1.437	1.230	43.1	20.1	57 W	39*	38*
10 13	9 25.07	+ 2 29.9	1.425	1.230	43.4	20.1	58 W	38*	39*
10 18	9 40.84	+ 0 19.5	1.415	1.231	43.5	20.1	58 W	38*	40*
10 23	9 56.34	− 1 51.2	1.406	1.233	43.7	20.1	59 W	37*	41*
10 28	10 11.56	− 4 1.4	1.399	1.238	43.8	20.1	59 W	36*	43*
11 2	10 26.53	− 6 10.3	1.391	1.243	43.8	20.1	60 W	35*	44*
11 7	10 41.25	− 8 17.0	1.385	1.251	43.8	20.1	61 W	34*	45*
11 12	10 55.73	−10 20.9	1.379	1.259	43.8	20.1	62 W	33*	47*
11 17	11 9.97	−12 21.5	1.372	1.269	43.7	20.1	63 W	31*	48*
11 22	11 23.96	−14 18.1	1.366	1.281	43.7	20.1	64 W	30*	50*
11 27	11 37.70	−16 10.3	1.359	1.293	43.6	20.1	65 W	28*	52*
12 7	12 4.46	−19 40.0	1.343	1.321	43.4	20.1	67 W	25*	56*
12 17	12 30.14	−22 48.7	1.323	1.354	43.1	20.1	70 W	22	60*
12 27	12 54.58	−25 34.5	1.298	1.389	42.8	20.1	74 W	19	65*
1 6	13 17.55	−27 56.8	1.267	1.427	42.3	20.1	78 W	17	71*
1 16	13 38.70	−29 55.1	1.229	1.467	41.6	20.1	82 W	15	76*
458436 2011 AL_{52}									
3 12	22 59.29	+ 2 35.3	2.841	1.868	5.0	21.4	10 W	3*	—
3 22	23 21.79	+ 5 2.4	2.748	1.784	6.6	21.4	12 W	5*	2*
4 1	23 45.69	+ 7 39.4	2.650	1.700	8.4	21.2	14 W	6*	5*
4 11	0 11.27	+10 24.8	2.549	1.616	10.3	21.1	17 W	7*	8*
4 21	0 38.86	+13 16.1	2.448	1.532	12.2	21.0	19 W	8*	10*
5 1	1 8.83	+16 9.9	2.350	1.449	14.0	20.9	20 W	9*	11*
5 11	1 41.58	+19 0.4	2.257	1.368	15.7	20.7	22 W	9*	12*
5 21	2 17.51	+21 40.2	2.172	1.291	17.1	20.5	22 W	10*	12*
5 31	2 56.86	+23 59.1	2.098	1.219	18.2	20.4	22 W	10*	12*
6 5	3 17.81	+24 57.0	2.066	1.186	18.6	20.3	22 W	10*	12*
6 10	3 39.58	+25 45.0	2.037	1.155	18.8	20.2	22 W	10*	11*
6 15	4 2.08	+26 21.7	2.013	1.126	18.9	20.1	21 W	10*	10*
6 20	4 25.21	+26 45.6	1.992	1.100	18.9	20.1	21 W	10*	10*
6 25	4 48.82	+26 55.5	1.976	1.078	18.8	20.0	20 W	9*	9*
6 30	5 12.74	+26 50.5	1.963	1.059	18.5	19.9	19 W	9*	9*
7 5	5 36.79	+26 30.3	1.955	1.043	18.1	19.9	19 W	8*	8*
7 10	6 0.77	+25 54.9	1.951	1.032	17.6	19.8	18 W	8*	7*
7 15	6 24.50	+25 4.8	1.951	1.025	17.1	19.8	17 W	8*	7*
7 20	6 47.82	+24 0.9	1.955	1.023	16.5	19.8	17 W	7*	7*
7 25	7 10.58	+22 44.5	1.962	1.025	15.9	19.8	16 W	7*	6*
7 30	7 32.67	+21 17.1	1.973	1.032	15.3	19.8	16 W	6*	6*
8 4	7 54.01	+19 40.6	1.987	1.042	14.7	19.8	15 W	6*	6*
8 9	8 14.58	+17 56.5	2.005	1.057	14.2	19.8	15 W	5*	6*
8 14	8 34.34	+16 6.6	2.024	1.076	13.9	19.9	15 W	5*	6*
8 19	8 53.30	+14 12.5	2.046	1.098	13.6	19.9	15 W	5*	6*
8 24	9 11.49	+12 15.7	2.070	1.124	13.4	20.0	15 W	5*	7*
8 29	9 28.92	+10 17.5	2.096	1.152	13.3	20.1	15 W	5*	7*
9 3	9 45.63	+ 8 18.9	2.123	1.183	13.3	20.2	16 W	5*	8*
9 8	10 1.68	+ 6 20.9	2.151	1.216	13.3	20.3	16 W	6*	8*
9 18	10 31.93	+ 2 29.5	2.209	1.288	13.7	20.5	18 W	7*	10*
9 28	11 0.00	− 1 12.3	2.266	1.365	14.3	20.7	20 W	8*	11*
10 8	11 26.16	− 4 41.9	2.321	1.445	15.1	20.9	22 W	10*	13*
10 18	11 50.69	− 7 58.2	2.371	1.528	16.0	21.1	25 W	12*	16*
10 28	12 13.75	−11 0.6	2.415	1.612	17.1	21.3	28 W	14*	19*
11 7	12 35.47	−13 49.3	2.449	1.697	18.2	21.4	32 W	17*	22*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
482533 2012 UA_{34}									
	h m	° ′			°	m	°	°	°
3 12	23 4.06	− 9 30.0	1.081	0.181	56.9	18.2	9 W	—	2*
3 13	23 10.72	− 8 57.3	1.128	0.202	44.3	18.2	8 W	—	2*
3 14	23 17.52	− 8 15.8	1.171	0.225	34.6	18.2	7 W	—	1*
3 15	23 24.26	− 7 29.4	1.210	0.251	27.3	18.3	7 W	—	—
3 16	23 30.80	− 6 40.7	1.246	0.277	21.6	18.4	6 W	—	—
3 17	23 37.11	− 5 51.2	1.280	0.303	17.3	18.6	5 W	—	—
3 18	23 43.17	− 5 1.7	1.311	0.328	13.8	18.7	5 W	—	—
3 19	23 49.00	− 4 12.7	1.340	0.354	11.1	18.8	4 W	—	—
3 20	23 54.60	− 3 24.7	1.368	0.379	8.9	18.9	3 W	—	—
3 21	23 59.99	− 2 37.6	1.395	0.403	7.2	19.0	3 W	—	—
3 22	0 5.18	− 1 51.7	1.420	0.427	5.8	19.1	2 W	—	—
3 27	0 28.67	+ 1 40.5	1.535	0.538	2.8	19.6	1 E	—	—
4 1	0 49.05	+ 4 46.0	1.634	0.636	2.7	20.1	2 E	—	—
4 6	1 7.26	+ 7 29.1	1.724	0.725	2.8	20.5	2 E	—	—
4 11	1 23.89	+ 9 54.0	1.805	0.805	2.6	20.8	2 E	—	—
4 16	1 39.34	+12 4.0	1.879	0.877	2.3	21.0	2 E	—	—
4 21	1 53.90	+14 1.4	1.946	0.943	2.4	21.3	2 W	—	—
90373 2003 SZ_{219}									
3 12	23 18.85	− 2 8.6	2.406	1.415	2.0	21.5	3 W	—	—
3 22	23 48.35	+ 0 21.9	2.383	1.391	3.1	21.5	4 W	—	—
4 1	0 18.34	+ 2 54.9	2.359	1.369	4.5	21.5	6 W	—	—
4 11	0 48.88	+ 5 27.2	2.335	1.350	5.9	21.6	8 W	—	2*
4 21	1 20.08	+ 7 55.3	2.313	1.333	7.2	21.6	10 W	—	4*
510238 2011 FC_{29}									
3 12	23 31.73	− 4 29.5	1.643	0.650	2.0	21.1	1 E	—	—
3 17	23 58.32	− 1 5.5	1.627	0.635	4.3	21.2	3 E	—	—
3 22	0 25.19	+ 2 23.0	1.614	0.628	8.3	21.3	5 E	—	—
3 27	0 52.36	+ 5 51.4	1.602	0.629	12.5	21.5	8 E	1*	—
4 1	1 19.80	+ 9 14.6	1.594	0.637	16.6	21.6	10 E	4*	—
435548 2008 QT_3									
3 12	23 36.21	+ 1 51.6	2.259	1.273	4.3	21.5	5 E	—	—
3 22	0 8.28	+ 5 12.6	2.192	1.202	3.8	21.3	5 E	—	—
4 1	0 42.71	+ 8 40.7	2.129	1.135	3.7	21.1	4 E	—	—
4 11	1 19.82	+12 9.2	2.072	1.074	3.6	20.9	4 E	—	—
4 21	1 59.91	+15 28.6	2.023	1.023	3.7	20.7	4 E	—	—
5 1	2 43.05	+18 27.2	1.985	0.983	4.2	20.6	4 E	—	—
5 11	3 28.98	+20 51.7	1.960	0.958	5.2	20.6	5 E	—	—
5 21	4 17.02	+22 30.1	1.949	0.949	6.7	20.6	6 E	—	—
5 31	5 6.02	+23 13.9	1.952	0.958	8.4	20.7	8 E	—	—
6 10	5 54.58	+23 0.9	1.970	0.983	9.8	20.9	9 E	—	2*
6 20	6 41.40	+21 55.4	2.002	1.022	10.7	21.0	11 E	—	4*
6 30	7 25.52	+20 6.5	2.048	1.073	11.1	21.2	12 E	—	5*
7 10	8 6.43	+17 45.3	2.106	1.134	11.0	21.4	12 E	—	6*
469737 2005 NW_{44}									
3 12	23 40.16	− 4 42.8	1.770	0.780	3.9	21.5	3 E	—	—
3 22	0 22.79	− 0 9.0	1.670	0.680	6.4	21.2	4 E	—	—
4 1	1 10.60	+ 5 4.7	1.552	0.574	12.5	20.9	7 E	—	—
4 11	2 5.36	+10 54.7	1.407	0.472	25.7	20.7	12 E	4*	3*
4 21	3 7.28	+16 58.6	1.219	0.408	49.8	20.7	18 E	10*	7*
5 1	4 11.24	+22 24.3	0.995	0.420	79.6	21.3	24 E	15*	11*
366795 2004 VA_{61}									
3 12	23 52.54	+ 0 14.3	2.502	1.520	4.5	21.5	7 E	1*	—
3 22	0 20.48	+ 2 54.5	2.534	1.542	2.8	21.5	4 E	—	—
4 1	0 47.96	+ 5 29.3	2.567	1.568	1.1	21.4	2 E	—	—
4 11	1 15.03	+ 7 56.2	2.598	1.597	0.6	21.4	1 W	—	—
4 21	1 41.74	+10 13.0	2.629	1.627	2.3	21.6	4 W	—	—
265139 2003 UV_{283}									
3 12	23 53.58	− 0 32.5	2.811	1.828	3.6	21.4	7 E	—	—
3 22	0 16.33	+ 2 6.5	2.797	1.803	1.7	21.2	3 E	—	—
4 1	0 39.54	+ 4 47.0	2.778	1.779	0.4	21.1	1 W	—	—
4 11	1 3.26	+ 7 27.0	2.754	1.756	2.2	21.2	4 W	—	—
4 21	1 27.58	+10 4.7	2.728	1.735	4.1	21.2	7 W	—	1*
5 1	1 52.56	+12 37.8	2.698	1.716	6.0	21.3	10 W	—	4*
5 11	2 18.25	+15 3.9	2.667	1.700	7.8	21.3	13 W	—	7*
5 21	2 44.71	+17 20.6	2.634	1.685	9.6	21.4	16 W	2*	9*
5 31	3 11.94	+19 25.5	2.599	1.673	11.3	21.4	19 W	4*	12*
6 10	3 39.90	+21 16.1	2.564	1.664	13.0	21.4	22 W	7*	14*
6 20	4 8.54	+22 50.2	2.528	1.657	14.7	21.4	24 W	9*	15*
6 30	4 37.72	+24 5.7	2.490	1.653	16.3	21.5	27 W	13*	17*
7 10	5 7.27	+25 1.2	2.453	1.651	17.9	21.5	30 W	16*	18*
7 20	5 36.99	+25 35.6	2.414	1.653	19.4	21.5	33 W	20*	19*

426534 2013 RV_{67}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 12	23 54.80	− 5 16.8	2.690	1.707	3.9	21.5	7 E	—	1*
3 22	0 19.15	− 2 28.6	2.721	1.730	2.6	21.4	5 E	—	—
4 1	0 42.98	+ 0 15.9	2.750	1.755	2.4	21.5	4 E	—	—
4 11	1 6.36	+ 2 54.9	2.774	1.781	3.5	21.6	6 W	—	—
4 21	1 29.38	+ 5 26.8	2.794	1.809	5.1	21.7	9 W	—	3*

389361 2009 VS_1

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	0 12.42	− 0 9.2	3.054	2.058	0.9	21.3	2 E	—	—
4 1	0 33.64	+ 1 16.3	3.018	2.022	1.9	21.4	4 W	—	—
4 11	0 55.36	+ 2 41.5	2.975	1.987	4.1	21.4	8 W	—	2*
4 21	1 17.65	+ 4 5.1	2.923	1.953	6.2	21.5	12 W	—	6*
5 1	1 40.53	+ 5 25.3	2.866	1.919	8.4	21.5	16 W	—	10*
5 11	2 4.04	+ 6 40.4	2.803	1.886	10.6	21.5	20 W	—	14*
5 21	2 28.23	+ 7 48.6	2.735	1.854	12.7	21.5	24 W	—	18*
5 31	2 53.09	+ 8 48.0	2.665	1.823	14.7	21.5	27 W	—	21*
6 10	3 18.61	+ 9 36.6	2.592	1.794	16.7	21.4	31 W	2*	24*
6 20	3 44.78	+10 12.6	2.519	1.766	18.6	21.4	34 W	4*	27*
6 30	4 11.51	+10 34.3	2.445	1.741	20.5	21.4	37 W	8*	30*
7 10	4 38.71	+10 40.2	2.372	1.717	22.2	21.3	40 W	11*	32*
7 20	5 6.27	+10 29.2	2.300	1.696	23.9	21.3	42 W	15*	34*
7 30	5 34.00	+10 0.5	2.231	1.677	25.4	21.2	45 W	19*	36*
8 9	6 1.75	+ 9 14.2	2.163	1.662	26.9	21.2	48 W	22*	37*
8 19	6 29.33	+ 8 10.6	2.098	1.649	28.2	21.1	50 W	26*	39*
8 29	6 56.55	+ 6 50.9	2.035	1.639	29.5	21.1	53 W	29*	40*
9 8	7 23.24	+ 5 17.0	1.975	1.633	30.6	21.1	56 W	32*	42*
9 18	7 49.25	+ 3 31.0	1.916	1.630	31.6	21.0	58 W	35*	43*
9 28	8 14.43	+ 1 35.6	1.858	1.630	32.6	21.0	61 W	37*	45*
10 8	8 38.66	− 0 26.3	1.800	1.634	33.4	20.9	64 W	38*	47*
10 18	9 1.84	− 2 31.6	1.742	1.641	34.1	20.9	67 W	39*	50*
10 28	9 23.83	− 4 37.1	1.682	1.651	34.7	20.9	71 W	39*	53*
11 7	9 44.53	− 6 39.5	1.620	1.664	35.1	20.8	75 W	38*	56*
11 17	10 3.79	− 8 35.6	1.556	1.681	35.3	20.7	79 W	36	60*
11 27	10 21.41	−10 21.6	1.489	1.700	35.3	20.7	84 W	35	65*
12 7	10 37.18	−11 53.9	1.420	1.721	34.9	20.6	89 W	33	70*
12 17	10 50.80	−13 8.2	1.349	1.745	34.1	20.5	96 W	32	75*
12 22	10 56.69	−13 37.1	1.313	1.758	33.6	20.4	99 W	31	77*
12 27	11 1.90	−13 59.4	1.277	1.771	32.8	20.4	102 W	31	78
1 1	11 6.40	−14 14.6	1.241	1.785	31.9	20.3	106 W	31	78
1 6	11 10.14	−14 21.9	1.206	1.799	30.9	20.2	110 W	31	78
1 11	11 13.05	−14 20.4	1.172	1.814	29.6	20.1	114 W	31	78
1 16	11 15.10	−14 9.2	1.139	1.829	28.1	20.0	119 W	31	78

390695 2003 AY_3

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	0 12.93	+ 7 33.8	3.526	2.541	2.8	21.5	7 E	—	—
4 1	0 29.86	+ 8 42.5	3.502	2.508	2.1	21.4	5 W	—	—
4 11	0 47.10	+ 9 51.5	3.464	2.475	3.2	21.4	8 W	—	—
4 21	1 4.66	+10 59.6	3.413	2.442	5.1	21.4	13 W	2*	6*
5 1	1 22.56	+12 5.7	3.349	2.407	7.2	21.5	17 W	4*	11*
5 11	1 40.79	+13 8.3	3.274	2.372	9.4	21.5	23 W	5*	16*
5 21	1 59.37	+14 6.2	3.187	2.337	11.5	21.5	28 W	7*	20*
5 31	2 18.32	+14 58.1	3.091	2.301	13.7	21.4	32 W	10*	25*
6 10	2 37.61	+15 42.4	2.985	2.264	15.8	21.4	37 W	13*	29*
6 20	2 57.27	+16 17.7	2.872	2.227	17.9	21.4	42 W	17*	32*
6 30	3 17.26	+16 42.4	2.751	2.189	19.9	21.3	47 W	21*	35*
7 10	3 37.54	+16 54.8	2.625	2.152	21.8	21.2	52 W	26*	38*
7 20	3 58.08	+16 53.3	2.495	2.114	23.7	21.1	57 W	31*	40*
7 30	4 18.78	+16 35.9	2.361	2.076	25.4	21.0	61 W	36*	42*
8 9	4 39.56	+16 0.8	2.225	2.038	27.1	20.9	66 W	41*	44*
8 19	5 0.31	+15 6.3	2.088	2.001	28.6	20.8	71 W	46*	46*
8 29	5 20.87	+13 50.3	1.952	1.964	29.9	20.6	76 W	49*	48*
9 8	5 41.08	+12 11.3	1.819	1.927	31.0	20.5	80 W	52*	50*
9 18	6 0.76	+10 7.7	1.688	1.891	32.0	20.3	85 W	53*	53*
9 28	6 19.67	+ 7 38.1	1.562	1.856	32.7	20.1	90 W	52*	55*
10 8	6 37.58	+ 4 42.1	1.443	1.822	33.1	19.9	95 W	50	59*
10 18	6 54.19	+ 1 19.8	1.331	1.790	33.3	19.7	100 W	46	63*
10 28	7 9.18	− 2 27.1	1.228	1.759	33.2	19.5	104 W	43	66
11 7	7 22.21	− 6 35.1	1.135	1.730	32.9	19.2	109 W	38	71
11 12	7 27.86	− 8 45.2	1.092	1.716	32.6	19.1	111 W	36	73
11 17	7 32.85	−10 58.1	1.052	1.703	32.3	19.0	113 W	34	75
11 22	7 37.13	−13 12.3	1.015	1.690	31.9	18.9	115 W	32	77
11 27	7 40.66	−15 26.4	0.981	1.678	31.6	18.8	117 W	30	79
12 2	7 43.39	−17 38.6	0.949	1.667	31.2	18.7	119 W	27	82
12 7	7 45.28	−19 47.1	0.921	1.656	30.8	18.6	121 W	25	84
12 12	7 46.30	−21 49.8	0.895	1.646	30.4	18.6	122 W	23	86
12 17	7 46.44	−23 44.1	0.872	1.637	30.0	18.5	124 W	21	88
12 22	7 45.73	−25 27.9	0.852	1.629	29.7	18.4	125 W	20	89
12 27	7 44.23	−26 58.7	0.834	1.621	29.4	18.3	126 W	18	89
1 1	7 42.04	−28 14.6	0.819	1.615	29.1	18.3	127 W	17	88
1 6	7 39.30	−29 13.6	0.807	1.609	28.9	18.2	128 W	16	87
1 11	7 36.18	−29 54.2	0.797	1.604	28.8	18.2	128 W	15	86
1 16	7 32.89	−30 15.2	0.789	1.600	28.7	18.2	129 E	15	86

373463 2000 PK_{17}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	0 16.84	+ 4 21.9	2.627	1.635	2.8	21.5	5 E	—	—
4 1	0 42.43	+ 7 16.6	2.643	1.646	1.7	21.4	3 E	—	—
4 11	1 8.03	+10 5.1	2.659	1.659	1.9	21.5	3 W	—	—
4 21	1 33.71	+12 45.5	2.672	1.674	3.3	21.6	5 W	—	—
5 1	1 59.48	+15 15.5	2.683	1.692	4.9	21.7	8 W	—	1*

137924 2000 BD_{19}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	0 29.14	+ 9 6.5	1.177	0.266	42.1	16.3	10 E	4*	—
3 23	0 37.94	+10 50.6	1.188	0.299	44.5	16.7	12 E	6*	—
3 24	0 46.41	+12 26.9	1.198	0.331	46.0	16.9	14 E	8*	—
3 25	0 54.62	+13 56.3	1.209	0.362	46.9	17.2	15 E	9*	—
3 26	1 2.59	+15 19.6	1.220	0.391	47.4	17.4	17 E	11*	—
3 27	1 10.35	+16 37.5	1.231	0.420	47.6	17.6	18 E	12*	—
3 28	1 17.92	+17 50.5	1.243	0.447	47.6	17.7	19 E	13*	—
3 29	1 25.32	+18 59.0	1.255	0.474	47.5	17.9	20 E	14*	—
3 30	1 32.55	+20 3.3	1.268	0.499	47.2	18.0	22 E	15*	—
3 31	1 39.64	+21 3.7	1.281	0.524	46.9	18.1	23 E	16*	—
4 1	1 46.59	+22 0.5	1.295	0.548	46.4	18.2	23 E	17*	—
4 3	2 0.07	+23 44.2	1.323	0.595	45.4	18.4	25 E	19*	1*
4 5	2 13.05	+25 16.0	1.352	0.639	44.3	18.6	27 E	20*	2*
4 7	2 25.56	+26 37.2	1.383	0.681	43.1	18.7	28 E	22*	2*
4 9	2 37.63	+27 49.0	1.415	0.721	41.9	18.9	29 E	23*	3*
4 11	2 49.27	+28 52.4	1.447	0.759	40.7	19.0	30 E	24*	3*
4 13	3 0.50	+29 48.4	1.480	0.796	39.5	19.1	30 E	24*	4*
4 15	3 11.35	+30 37.7	1.514	0.831	38.3	19.2	31 E	25*	4*
4 17	3 21.84	+31 21.0	1.548	0.865	37.1	19.3	31 E	25*	5*
4 19	3 31.97	+31 59.0	1.582	0.898	36.0	19.4	32 E	26*	5*
4 21	3 41.76	+32 32.3	1.616	0.930	34.9	19.5	32 E	26*	5*
4 26	4 4.89	+33 37.7	1.701	1.004	32.2	19.7	32 E	26*	6*
5 1	4 26.25	+34 22.6	1.786	1.072	29.8	19.9	32 E	26*	6*
5 6	4 46.06	+34 51.8	1.869	1.134	27.5	20.1	31 E	25*	7*
5 11	5 4.51	+35 8.7	1.949	1.192	25.3	20.2	30 E	24*	7*
5 16	5 21.78	+35 15.9	2.027	1.245	23.3	20.3	29 E	22*	7*
5 21	5 38.04	+35 15.5	2.100	1.294	21.4	20.4	28 E	21*	6*
5 26	5 53.40	+35 8.9	2.170	1.339	19.6	20.5	26 E	19*	6*
5 31	6 7.97	+34 57.2	2.236	1.381	17.8	20.6	25 E	18*	5*
6 5	6 21.85	+34 41.2	2.298	1.419	16.2	20.6	23 E	16*	5*
6 10	6 35.13	+34 21.7	2.354	1.454	14.6	20.7	21 E	14*	4*
6 15	6 47.88	+33 59.1	2.406	1.486	13.1	20.7	19 E	12*	3*
6 20	7 0.16	+33 33.9	2.453	1.515	11.6	20.8	17 E	11*	2*
6 25	7 12.03	+33 6.3	2.495	1.542	10.3	20.8	16 E	9*	—
6 30	7 23.52	+32 36.7	2.532	1.565	9.0	20.8	14 E	8*	—
7 5	7 34.68	+32 5.1	2.563	1.586	8.0	20.8	12 E	6*	—
7 10	7 45.55	+31 31.8	2.589	1.604	7.1	20.8	11 E	5*	—
7 15	7 56.16	+30 56.8	2.609	1.619	6.4	20.8	10 E	4*	—
7 20	8 6.54	+30 20.3	2.624	1.632	6.1	20.8	10 E	3*	—
7 25	8 16.72	+29 42.3	2.634	1.643	6.2	20.9	10 W	2*	—
7 30	8 26.71	+29 2.9	2.637	1.651	6.6	20.9	11 W	4*	—
8 4	8 36.54	+28 22.1	2.635	1.657	7.4	20.9	12 W	6*	—
8 9	8 46.23	+27 39.9	2.628	1.660	8.3	21.0	14 W	7*	—
8 14	8 55.80	+26 56.4	2.614	1.661	9.4	21.0	16 W	9*	—
8 19	9 5.28	+26 11.4	2.596	1.659	10.6	21.0	18 W	12*	—
8 24	9 14.68	+25 25.0	2.571	1.655	11.9	21.1	20 W	14*	—
8 29	9 24.02	+24 37.2	2.542	1.649	13.3	21.1	22 W	16*	1*
9 3	9 33.31	+23 47.8	2.506	1.640	14.6	21.1	24 W	18*	3*
9 8	9 42.59	+22 56.8	2.466	1.629	16.1	21.1	27 W	21*	4*
9 13	9 51.88	+22 4.1	2.420	1.615	17.6	21.1	29 W	23*	6*
9 18	10 1.20	+21 9.4	2.370	1.599	19.1	21.1	31 W	25*	7*
9 23	10 10.57	+20 12.8	2.314	1.580	20.6	21.0	34 W	27*	9*
9 28	10 20.04	+19 13.8	2.253	1.559	22.2	21.0	36 W	30*	10*
10 3	10 29.63	+18 12.2	2.188	1.534	23.9	20.9	38 W	32*	11*
10 8	10 39.39	+17 7.7	2.119	1.507	25.6	20.9	41 W	34*	13*
10 13	10 49.38	+15 59.9	2.045	1.478	27.3	20.8	43 W	36*	14*
10 18	10 59.65	+14 48.1	1.967	1.445	29.1	20.7	45 W	38*	16*
10 23	11 10.28	+13 31.7	1.886	1.409	31.1	20.7	47 W	39*	18*
10 28	11 21.36	+12 9.9	1.801	1.370	33.1	20.5	49 W	41*	19*
11 2	11 33.02	+10 41.4	1.714	1.327	35.3	20.4	51 W	42*	21*
11 7	11 45.40	+ 9 5.0	1.624	1.280	37.6	20.3	52 W	42*	23*
11 12	11 58.71	+ 7 18.8	1.532	1.230	40.2	20.2	53 W	43*	24*
11 17	12 13.20	+ 5 20.5	1.439	1.176	43.0	20.0	54 W	42*	26*
11 22	12 29.20	+ 3 7.5	1.346	1.117	46.1	19.8	55 W	42*	28*
11 27	12 47.18	+ 0 36.1	1.254	1.053	49.7	19.7	54 W	40*	29*
12 2	13 7.76	− 2 17.7	1.165	0.983	53.8	19.5	54 W	38*	30*
12 7	13 31.77	− 5 38.0	1.081	0.907	58.6	19.3	52 W	35*	31*
12 12	14 0.32	− 9 27.7	1.006	0.824	64.2	19.1	49 W	31*	31*
12 17	14 34.78	−13 45.0	0.945	0.732	70.6	18.9	45 W	26*	29*
12 19	14 50.56	−15 33.5	0.926	0.693	73.3	18.8	42 W	24*	29*
12 21	15 7.63	−17 23.3	0.910	0.651	76.1	18.7	40 W	21*	27*
12 23	15 26.06	−19 12.4	0.899	0.608	78.9	18.6	37 W	19*	26*
12 25	15 45.92	−20 58.4	0.893	0.562	81.7	18.6	34 W	16*	24*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
137924 2000 BD_{19}									*(continuation)*
	h m	° ′			°	m	°	°	°
12 27	16 7.23	−22 38.1	0.892	0.514	84.2	18.5	31 W	13*	22*
12 29	16 30.00	−24 8.1	0.897	0.462	86.4	18.3	28 W	10*	20*
12 31	16 54.21	−25 24.4	0.910	0.407	87.9	18.1	24 W	7*	17*
1 2	17 19.86	−26 22.6	0.930	0.349	88.3	17.9	21 W	4*	14*
1 4	17 47.06	−26 57.2	0.959	0.285	86.5	17.4	17 W	1*	10*
1 6	18 16.30	−26 59.4	0.997	0.216	80.2	16.7	12 W	—	6*
1 7	18 32.06	−26 43.0	1.019	0.179	73.5	16.1	10 W	—	4*
1 8	18 49.02	−26 8.6	1.042	0.143	61.8	15.3	7 W	—	1*
1 9	19 7.63	−25 6.2	1.063	0.110	41.1	14.1	4 W	—	—
1 10	19 27.68	−23 22.2	1.072	0.092	16.1	13.0	1 E	—	—
1 11	19 46.34	−21 3.2	1.058	0.103	42.1	14.0	4 E	—	—
1 12	20 1.32	−18 41.3	1.029	0.133	66.6	15.2	7 E	1*	—
1 13	20 13.49	−16 29.1	0.997	0.169	80.6	16.1	10 E	3*	—
1 14	20 24.01	−14 25.5	0.967	0.206	88.7	16.8	12 E	6*	—
1 15	20 33.56	−12 27.8	0.939	0.241	93.6	17.3	14 E	8*	—
1 16	20 42.53	−10 34.1	0.913	0.276	96.6	17.7	16 E	10*	—
8373 Stephengould									
3 22	0 30.50	−33 34.5	5.270	4.486	7.3	21.5	35 E	—	14*
4 1	0 41.49	−32 36.1	5.213	4.457	7.8	21.5	37 W	—	10*
4 11	0 52.51	−31 44.4	5.141	4.427	8.5	21.5	41 W	—	16*
4 21	1 3.51	−31 0.0	5.055	4.397	9.2	21.5	45 W	—	23*
5 1	1 14.43	−30 23.9	4.955	4.365	10.1	21.4	49 W	—	29*
5 11	1 25.18	−29 56.8	4.844	4.333	10.9	21.4	54 W	—	36*
5 21	1 35.69	−29 39.3	4.722	4.300	11.7	21.4	60 W	—	44*
5 31	1 45.88	−29 32.4	4.592	4.267	12.5	21.3	65 W	—	51*
6 10	1 55.64	−29 36.8	4.454	4.232	13.1	21.2	71 W	—	58*
6 20	2 4.87	−29 53.1	4.312	4.197	13.6	21.2	77 W	—	65*
6 30	2 13.41	−30 22.0	4.166	4.161	14.0	21.1	83 W	—	72*
7 10	2 21.11	−31 3.8	4.019	4.125	14.3	21.0	89 W	1*	79*
7 20	2 27.80	−31 58.5	3.874	4.087	14.3	20.9	95 W	5*	83*
7 30	2 33.23	−33 5.7	3.733	4.049	14.3	20.8	101 W	8*	83
8 9	2 37.19	−34 24.2	3.598	4.010	14.0	20.7	107 W	9*	82
8 19	2 39.41	−35 52.0	3.472	3.970	13.6	20.6	112 W	9*	80
8 29	2 39.62	−37 26.0	3.358	3.929	13.2	20.5	118 W	8	79
9 3	2 38.90	−38 13.8	3.306	3.909	12.9	20.4	120 W	7	78
9 8	2 37.61	−39 1.5	3.258	3.888	12.7	20.4	122 W	6	77
9 13	2 35.73	−39 48.1	3.214	3.867	12.5	20.3	124 W	5	76
9 18	2 33.24	−40 32.8	3.175	3.846	12.3	20.3	125 W	4	75
9 23	2 30.17	−41 14.8	3.140	3.824	12.2	20.2	127 W	4	75
9 28	2 26.53	−41 53.1	3.109	3.803	12.1	20.2	127 W	3	74
10 3	2 22.38	−42 26.7	3.084	3.781	12.1	20.2	128 W	3	74
10 8	2 17.76	−42 55.0	3.063	3.759	12.1	20.1	128 W	2	73
10 13	2 12.76	−43 17.1	3.048	3.736	12.3	20.1	127 W	2	73
10 18	2 7.47	−43 32.3	3.037	3.714	12.5	20.1	126 W	1	72
10 23	2 2.00	−43 40.0	3.031	3.691	12.8	20.1	125 W	1	72
10 28	1 56.47	−43 39.9	3.029	3.668	13.1	20.1	123 E	1	72
11 2	1 51.00	−43 31.9	3.033	3.645	13.5	20.1	121 E	1	72
11 7	1 45.71	−43 16.0	3.040	3.622	13.9	20.1	119 E	2	73
11 12	1 40.70	−42 52.4	3.051	3.598	14.3	20.1	116 E	2	73
11 17	1 36.07	−42 21.4	3.066	3.575	14.7	20.1	113 E	3	74
11 22	1 31.91	−41 43.4	3.085	3.551	15.1	20.1	110 E	3	74
11 27	1 28.29	−40 59.2	3.106	3.526	15.5	20.1	107 E	4	75
12 2	1 25.23	−40 9.3	3.130	3.502	15.9	20.2	104 E	5	76
12 7	1 22.77	−39 14.3	3.156	3.478	16.2	20.2	101 E	6	77
12 17	1 19.67	−37 11.7	3.214	3.428	16.6	20.2	94 E	8	79
12 27	1 18.97	−34 56.1	3.277	3.377	16.9	20.2	87 E	10	80*
1 6	1 20.49	−32 31.9	3.341	3.326	17.0	20.2	81 E	12	75*
1 16	1 24.01	−30 2.3	3.404	3.273	16.8	20.2	74 E	15	68*
467917 2011 OP_{24}									
3 22	0 49.10	− 1 5.2	1.732	0.777	14.1	21.3	11 E	—	4*
4 1	1 34.30	+ 3 11.0	1.610	0.675	19.6	21.1	13 E	2*	6*
4 11	2 25.31	+ 8 5.2	1.478	0.590	28.8	20.9	16 E	5*	9*
4 21	3 22.54	+13 31.7	1.337	0.541	42.3	20.8	21 E	10*	12*
5 1	4 25.45	+19 10.0	1.195	0.546	57.0	21.0	27 E	15*	15*
5 11	5 33.64	+24 20.4	1.071	0.603	67.7	21.3	34 E	22*	18*
252882 2002 JM_{68}									
3 22	0 55.02	− 4 24.7	3.289	2.330	5.6	21.5	13 E	—	7*
4 1	1 11.40	− 1 57.9	3.283	2.305	4.2	21.4	10 E	—	3*
4 11	1 28.08	+ 0 27.3	3.266	2.278	3.6	21.3	8 E	—	—
4 21	1 45.10	+ 2 50.5	3.237	2.252	4.2	21.3	9 W	—	—
5 1	2 2.46	+ 5 11.4	3.198	2.225	5.6	21.3	12 W	—	5*
5 11	2 20.19	+ 7 29.4	3.147	2.197	7.4	21.3	16 W	—	10*
5 21	2 38.34	+ 9 44.3	3.087	2.169	9.4	21.4	21 W	—	15*
5 31	2 56.92	+11 55.6	3.017	2.140	11.5	21.4	25 W	1*	19*
6 10	3 15.98	+14 3.1	2.939	2.112	13.6	21.3	29 W	5*	22*
6 20	3 35.54	+16 6.4	2.853	2.083	15.6	21.3	34 W	10*	25*
6 30	3 55.65	+18 5.1	2.759	2.054	17.7	21.3	38 W	16*	28*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
252882 2002 JM_{68}									*(continuation)*
	h m	° ′			°	m	°	°	°
7 10	4 16.34	+19 59.1	2.659	2.025	19.7	21.2	42 W	21*	30*
7 20	4 37.64	+21 48.2	2.554	1.996	21.7	21.2	47 W	28*	31*
7 30	4 59.56	+23 32.2	2.444	1.968	23.6	21.1	51 W	34*	31*
8 9	5 22.14	+25 11.2	2.331	1.939	25.4	21.0	55 W	40*	31*
8 19	5 45.39	+26 45.3	2.214	1.912	27.1	21.0	60 W	46*	31*
8 29	6 9.31	+28 14.8	2.096	1.884	28.8	20.8	64 W	52*	30*
9 8	6 33.90	+29 40.1	1.978	1.858	30.2	20.7	68 W	58*	29*
9 18	6 59.14	+31 2.1	1.861	1.833	31.6	20.6	73 W	63*	28*
9 28	7 24.97	+32 21.8	1.745	1.808	32.7	20.5	77 W	68*	27*
10 8	7 51.36	+33 40.4	1.632	1.785	33.6	20.3	82 W	73*	26*
10 18	8 18.22	+34 59.7	1.523	1.763	34.3	20.2	86 W	77*	25*
10 23	8 31.77	+35 40.2	1.470	1.753	34.6	20.1	88 W	79*	25*
10 28	8 45.39	+36 21.5	1.419	1.743	34.7	20.0	91 W	81*	24*
11 2	8 59.04	+37 4.1	1.369	1.734	34.9	19.9	93 W	82*	24*
11 7	9 12.70	+37 48.1	1.322	1.725	34.9	19.8	95 W	83	23*
11 12	9 26.32	+38 33.8	1.276	1.716	34.9	19.7	98 W	84	23*
11 17	9 39.87	+39 21.7	1.231	1.708	34.7	19.6	100 W	84	22*
11 22	9 53.28	+40 11.8	1.189	1.701	34.6	19.6	102 W	85	22*
11 27	10 6.50	+41 4.5	1.149	1.694	34.3	19.5	105 W	86	21*
12 2	10 19.47	+41 59.9	1.112	1.687	34.0	19.4	107 W	87	21*
12 7	10 32.11	+42 58.3	1.076	1.682	33.6	19.3	109 W	88	20*
12 12	10 44.31	+43 59.6	1.043	1.676	33.1	19.2	111 W	89	19*
12 17	10 55.97	+45 4.1	1.012	1.672	32.6	19.1	114 W	90	18*
12 22	11 6.95	+46 11.4	0.984	1.668	32.1	19.0	116 W	89	18*
12 27	11 17.13	+47 21.3	0.958	1.664	31.5	19.0	118 W	88	17*
1 1	11 26.38	+48 33.2	0.935	1.661	30.8	18.9	120 W	86	15
1 6	11 34.52	+49 46.7	0.914	1.659	30.2	18.8	122 W	85	14
1 11	11 41.35	+51 0.9	0.896	1.658	29.6	18.7	124 W	84	13
1 16	11 46.70	+52 14.5	0.881	1.657	29.0	18.7	125 W	83	12
486042 2012 TW_{131}									
3 22	0 59.29	+ 6 11.6	2.670	1.724	8.3	21.5	14 E	7*	4*
4 1	1 22.44	+ 9 23.2	2.660	1.690	6.5	21.4	11 E	4*	1*
4 11	1 46.60	+12 33.1	2.646	1.659	4.9	21.2	8 E	2*	—
4 21	2 11.91	+15 38.8	2.629	1.631	3.4	21.1	5 E	—	—
5 1	2 38.47	+18 37.6	2.611	1.606	2.4	21.0	4 E	—	—
5 11	3 6.39	+21 25.9	2.591	1.585	2.4	20.9	4 W	—	—
5 21	3 35.74	+24 0.1	2.572	1.567	3.4	21.0	5 W	—	—
5 31	4 6.53	+26 16.3	2.554	1.554	4.8	21.0	7 W	1*	—
6 10	4 38.66	+28 10.6	2.537	1.544	6.2	21.0	9 W	3*	—
6 20	5 11.95	+29 39.4	2.522	1.540	7.5	21.1	11 W	5*	—
6 30	5 46.08	+30 39.8	2.509	1.539	8.9	21.1	14 W	7*	—
7 10	6 20.63	+31 10.1	2.498	1.543	10.2	21.2	16 W	9*	1*
7 20	6 55.14	+31 9.8	2.489	1.552	11.4	21.2	18 W	11*	1*
7 30	7 29.13	+30 40.1	2.482	1.564	12.6	21.3	20 W	13*	2*
8 9	8 2.17	+29 43.4	2.476	1.581	13.8	21.4	22 W	16*	2*
8 19	8 33.96	+28 22.9	2.470	1.602	15.0	21.4	24 W	18*	3*
8 29	9 4.26	+26 42.9	2.463	1.626	16.2	21.5	27 W	21*	4*
162581 2000 SA_{10}									
3 22	1 19.62	+ 5 39.1	2.095	1.199	15.8	21.5	19 E	11*	8*
4 1	1 53.96	+ 7 42.3	2.070	1.162	15.5	21.4	18 E	9*	9*
4 11	2 29.86	+ 9 38.5	2.045	1.131	15.6	21.3	18 E	7*	9*
4 21	3 7.32	+11 23.0	2.023	1.107	15.9	21.2	18 E	6*	10*
5 1	3 46.23	+12 50.7	2.005	1.090	16.4	21.2	18 E	4*	11*
5 11	4 26.33	+13 57.0	1.993	1.081	17.0	21.2	18 E	3*	12*
5 21	5 7.26	+14 37.8	1.989	1.082	17.6	21.2	19 E	2*	12*
5 31	5 48.53	+14 50.7	1.994	1.091	18.0	21.2	19 E	—	13*
6 10	6 29.60	+14 34.7	2.009	1.109	18.1	21.3	20 E	—	14*
6 20	7 9.94	+13 51.2	2.033	1.134	18.0	21.3	20 E	—	14*
6 30	7 49.12	+12 42.9	2.067	1.166	17.5	21.4	20 E	—	14*
474611 2004 SB_{56}									
3 22	1 40.65	+19 54.7	1.607	0.898	33.9	21.4	30 E	24*	6*
3 27	2 1.22	+21 2.6	1.585	0.877	34.7	21.3	30 E	24*	7*
4 1	2 22.46	+22 0.6	1.561	0.855	35.7	21.3	30 E	24*	7*
4 6	2 44.38	+22 47.1	1.534	0.833	36.8	21.2	30 E	23*	8*
4 11	3 6.93	+23 20.6	1.505	0.810	38.2	21.2	30 E	23*	10*
4 16	3 30.06	+23 39.4	1.474	0.788	39.8	21.1	30 E	23*	11*
4 21	3 53.67	+23 42.2	1.440	0.766	41.6	21.0	30 E	22*	13*
4 26	4 17.66	+23 27.6	1.403	0.744	43.7	21.0	31 E	22*	14*
5 1	4 41.87	+22 54.8	1.363	0.724	46.2	20.9	31 E	21*	16*
5 6	5 6.12	+22 3.2	1.320	0.706	49.0	20.9	32 E	20*	18*
5 11	5 30.27	+20 52.8	1.275	0.691	52.1	20.8	33 E	19*	20*
5 16	5 54.15	+19 24.4	1.227	0.678	55.5	20.8	34 E	17*	22*
5 21	6 17.65	+17 39.2	1.177	0.668	59.2	20.8	35 E	16*	24*
5 26	6 40.67	+15 39.1	1.124	0.662	63.0	20.8	36 E	14*	27*
5 31	7 3.18	+13 26.5	1.070	0.660	67.0	20.8	37 E	12*	29*
6 5	7 25.18	+11 4.0	1.014	0.662	71.0	20.8	38 E	10*	31*
6 10	7 46.77	+ 8 34.5	0.958	0.668	74.9	20.8	39 E	8*	33*
6 15	8 8.09	+ 6 0.9	0.902	0.678	78.6	20.9	41 E	6*	35*

474611 2004 SB_{56} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 20	8 29.35	+ 3 25.7	0.847	0.690	82.0	20.9	42 E	4*	36*
6 25	8 50.81	+ 0 51.5	0.794	0.706	85.1	20.9	44 E	2*	38*
6 30	9 12.73	− 1 39.8	0.743	0.724	87.7	20.9	45 E	1*	39*
7 5	9 35.42	− 4 5.9	0.695	0.744	89.9	20.9	47 E	—	41*
7 10	9 59.21	− 6 24.5	0.650	0.765	91.5	20.9	49 E	—	43*
7 15	10 24.41	− 8 33.4	0.609	0.787	92.6	20.9	51 E	—	44*
7 20	10 51.28	−10 29.8	0.572	0.810	93.1	20.8	53 E	—	46*
7 25	11 19.96	−12 10.5	0.540	0.833	93.0	20.8	55 E	1*	49*
7 30	11 50.43	−13 31.8	0.514	0.855	92.3	20.7	57 E	3*	51*
8 4	12 22.45	−14 30.2	0.494	0.877	91.1	20.6	60 E	6*	54*
8 9	12 55.58	−15 3.0	0.479	0.898	89.4	20.5	62 E	8*	56*
8 14	13 29.15	−15 9.2	0.471	0.919	87.4	20.5	65 E	12*	59*
8 19	14 2.42	−14 50.2	0.469	0.938	85.1	20.4	67 E	15*	61*
8 24	14 34.70	−14 9.5	0.472	0.957	82.6	20.4	70 E	18*	63*
8 29	15 5.40	−13 12.0	0.480	0.974	80.2	20.4	72 E	22*	65*
9 3	15 34.17	−12 2.7	0.492	0.990	77.9	20.4	74 E	25*	65*
9 8	16 0.90	−10 46.8	0.508	1.004	75.7	20.4	75 E	28*	65*
9 13	16 25.62	− 9 28.0	0.527	1.018	73.7	20.4	76 E	30*	65*
9 18	16 48.49	− 8 9.4	0.548	1.030	71.9	20.5	77 E	33*	64*
9 23	17 9.72	− 6 52.6	0.570	1.040	70.3	20.5	77 E	35*	63*
9 28	17 29.51	− 5 38.5	0.593	1.049	68.9	20.6	78 E	37*	62*
10 3	17 48.07	− 4 27.7	0.616	1.057	67.7	20.6	78 E	38*	61*
10 8	18 5.60	− 3 20.0	0.639	1.063	66.6	20.7	77 E	40*	59*
10 13	18 22.29	− 2 15.5	0.662	1.067	65.7	20.8	77 E	41*	57*
10 18	18 38.30	− 1 13.8	0.684	1.070	64.9	20.8	77 E	43*	55*
10 23	18 53.79	− 0 14.3	0.705	1.071	64.3	20.9	76 E	44*	54*
10 28	19 8.84	+ 0 43.3	0.725	1.071	63.8	20.9	75 E	45*	51*
11 2	19 23.56	+ 1 39.5	0.743	1.070	63.4	21.0	75 E	46*	49*
11 7	19 38.03	+ 2 34.4	0.760	1.067	63.1	21.0	74 E	47*	47*
11 12	19 52.34	+ 3 28.3	0.775	1.062	63.0	21.0	73 E	48*	45*
11 17	20 6.57	+ 4 21.6	0.787	1.056	62.9	21.0	72 E	48*	43*
11 22	20 20.76	+ 5 14.5	0.798	1.048	63.0	21.0	71 E	49*	40*
11 27	20 34.96	+ 6 7.0	0.806	1.039	63.2	21.1	70 E	50*	38*
12 2	20 49.22	+ 6 59.0	0.812	1.028	63.5	21.1	69 E	51*	35*
12 7	21 3.59	+ 7 50.3	0.815	1.016	64.0	21.1	68 E	51*	33*
12 12	21 18.10	+ 8 40.7	0.816	1.002	64.6	21.1	67 E	52*	31*
12 17	21 32.80	+ 9 29.9	0.813	0.988	65.4	21.0	66 E	52*	29*
12 22	21 47.73	+10 17.5	0.808	0.971	66.4	21.0	65 E	52*	27*
12 27	22 2.91	+11 2.6	0.801	0.954	67.5	21.0	64 E	52*	25*
1 1	22 18.34	+11 44.2	0.790	0.935	68.9	21.0	63 E	52*	24*
1 6	22 34.06	+12 21.1	0.776	0.916	70.5	20.9	61 E	52*	22*
1 11	22 50.08	+12 51.9	0.759	0.895	72.4	20.9	60 E	51*	21*
1 16	23 6.39	+13 14.7	0.740	0.874	74.6	20.9	59 E	50*	20*

405200 2003 EE_{50}

3 22	1 50.46	+16 42.7	2.190	1.423	20.8	21.5	30 E	24*	10*
4 1	2 20.36	+19 47.4	2.218	1.421	19.5	21.5	28 E	22*	8*
4 11	2 51.46	+22 35.0	2.248	1.423	18.3	21.5	26 E	20*	7*
4 21	3 23.74	+25 1.3	2.279	1.428	17.1	21.5	25 E	18*	6*
5 1	3 57.09	+27 2.8	2.311	1.436	15.8	21.5	23 E	16*	5*
5 11	4 31.27	+28 36.0	2.344	1.448	14.5	21.5	21 E	14*	5*
5 21	5 5.99	+29 38.7	2.379	1.462	13.2	21.5	19 E	12*	4*
5 31	5 40.85	+30 9.8	2.415	1.479	11.9	21.5	17 E	10*	3*
6 10	6 15.41	+30 9.7	2.452	1.499	10.5	21.5	16 E	8*	3*

162142 1998 VR

3 22	1 58.57	+15 57.8	1.818	1.103	28.4	21.5	32 E	25*	12*
4 1	2 27.30	+19 53.5	1.818	1.073	27.6	21.4	30 E	23*	9*
4 11	2 58.01	+23 34.8	1.804	1.036	27.2	21.3	28 E	22*	8*
4 21	3 31.34	+26 57.5	1.777	0.993	27.4	21.2	27 E	21*	7*
5 1	4 7.95	+29 54.9	1.734	0.943	28.2	21.0	26 E	20*	6*
5 11	4 48.44	+32 16.5	1.677	0.888	29.9	20.9	26 E	19*	6*
5 21	5 33.18	+33 47.5	1.605	0.829	32.7	20.7	26 E	19*	6*
5 31	6 21.96	+34 8.3	1.517	0.767	36.9	20.5	27 E	19*	8*
6 10	7 13.60	+32 55.8	1.414	0.707	42.7	20.4	28 E	19*	11*
6 15	7 39.83	+31 37.4	1.357	0.679	46.4	20.3	29 E	19*	13*
6 20	8 5.85	+29 47.7	1.297	0.654	50.6	20.2	30 E	18*	15*
6 25	8 31.28	+27 25.2	1.233	0.632	55.3	20.2	31 E	17*	17*
6 30	8 55.73	+24 29.4	1.167	0.615	60.5	20.1	32 E	16*	20*
7 5	9 18.85	+21 1.0	1.100	0.603	66.0	20.1	33 E	15*	22*
7 10	9 40.38	+17 1.8	1.032	0.598	71.7	20.2	34 E	13*	25*
7 15	10 0.20	+12 34.7	0.964	0.599	77.3	20.2	35 E	10*	27*
7 20	10 18.27	+ 7 43.4	0.899	0.606	82.5	20.3	36 E	7*	30*
7 25	10 34.69	+ 2 31.9	0.838	0.619	87.0	20.3	38 E	4*	31*
7 30	10 49.67	− 2 55.4	0.781	0.638	90.8	20.4	39 E	—	33*
8 4	11 3.49	− 8 34.4	0.729	0.661	93.7	20.4	41 E	—	34*
8 9	11 16.52	−14 21.4	0.682	0.687	95.6	20.5	42 E	—	34*
8 14	11 29.21	−20 13.1	0.641	0.715	96.6	20.5	45 E	—	34*
8 19	11 42.07	−26 6.8	0.604	0.745	96.7	20.4	47 E	—	34*
8 24	11 55.73	−32 0.1	0.572	0.776	96.0	20.4	50 E	—	33*
8 29	12 10.92	−37 50.6	0.545	0.806	94.8	20.3	53 E	—	33*

162142 1998 VR *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 31	12 17.64	−40 9.4	0.535	0.819	94.1	20.3	54 E	—	33*
9 2	12 24.85	−42 27.0	0.525	0.831	93.4	20.2	55 E	—	33*
9 4	12 32.63	−44 43.3	0.517	0.843	92.6	20.2	57 E	—	33*
9 6	12 41.10	−46 57.9	0.508	0.855	91.8	20.1	58 E	—	33*
9 8	12 50.37	−49 10.4	0.501	0.867	90.9	20.1	59 E	—	33*
9 10	13 0.58	−51 20.3	0.494	0.879	89.9	20.1	61 E	—	34*
9 12	13 11.91	−53 26.9	0.487	0.890	88.9	20.0	62 E	—	34*
9 14	13 24.53	−55 29.5	0.481	0.901	87.9	20.0	64 E	—	35*
9 16	13 38.65	−57 27.2	0.475	0.913	86.8	19.9	65 E	—	35*
9 18	13 54.48	−59 18.6	0.471	0.924	85.7	19.9	66 E	—	36*
9 19	14 3.11	−60 11.5	0.468	0.929	85.2	19.9	67 E	—	36*
9 20	14 12.25	−61 2.2	0.466	0.934	84.6	19.9	68 E	—	37*
9 21	14 21.91	−61 50.6	0.464	0.940	84.0	19.8	69 E	—	37*
9 22	14 32.13	−62 36.4	0.462	0.945	83.5	19.8	69 E	—	38*
9 23	14 42.91	−63 19.2	0.461	0.950	82.9	19.8	70 E	—	38*
9 24	14 54.26	−63 58.9	0.459	0.955	82.3	19.8	71 E	—	39*
9 25	15 6.18	−64 35.2	0.458	0.961	81.7	19.8	71 E	—	39*
9 26	15 18.65	−65 7.6	0.456	0.966	81.2	19.8	72 E	—	40*
9 27	15 31.63	−65 36.0	0.455	0.971	80.6	19.7	73 E	—	40*
9 28	15 45.10	−66 0.1	0.454	0.976	80.0	19.7	73 E	—	41*
9 29	15 58.99	−66 19.7	0.453	0.980	79.4	19.7	74 E	—	41*
9 30	16 13.22	−66 34.4	0.453	0.985	78.8	19.7	75 E	—	42*
10 1	16 27.71	−66 44.2	0.452	0.990	78.3	19.7	75 E	—	43*
10 2	16 42.36	−66 48.9	0.452	0.995	77.7	19.7	76 E	—	44*
10 3	16 57.07	−66 48.5	0.451	0.999	77.1	19.7	77 E	—	44*
10 4	17 11.73	−66 43.0	0.451	1.004	76.6	19.7	77 E	—	45*
10 5	17 26.23	−66 32.4	0.451	1.008	76.0	19.6	78 E	—	46*
10 6	17 40.48	−66 16.8	0.452	1.013	75.4	19.6	79 E	—	47*
10 7	17 54.38	−65 56.6	0.452	1.017	74.9	19.6	79 E	—	47*
10 8	18 7.88	−65 31.8	0.452	1.021	74.3	19.6	80 E	—	48*
10 9	18 20.90	−65 2.7	0.453	1.026	73.8	19.6	80 E	—	49*
10 10	18 33.42	−64 29.7	0.454	1.030	73.3	19.6	81 E	—	50*
10 11	18 45.39	−63 53.1	0.455	1.034	72.7	19.6	81 E	—	51*
10 12	18 56.81	−63 13.0	0.456	1.038	72.2	19.6	82 E	—	52*
10 13	19 7.67	−62 29.9	0.458	1.042	71.7	19.6	82 E	—	53*
10 14	19 17.97	−61 44.1	0.459	1.046	71.2	19.6	83 E	—	54*
10 15	19 27.74	−60 55.8	0.461	1.050	70.7	19.6	83 E	—	55*
10 16	19 37.00	−60 5.4	0.463	1.053	70.2	19.6	84 E	—	55*
10 17	19 45.75	−59 13.0	0.465	1.057	69.8	19.6	84 E	—	56*
10 18	19 54.04	−58 19.0	0.467	1.061	69.3	19.6	85 E	—	57*
10 19	20 1.88	−57 23.5	0.469	1.064	68.8	19.6	85 E	—	58*
10 20	20 9.30	−56 26.8	0.471	1.068	68.4	19.6	85 E	—	59*
10 21	20 16.33	−55 29.1	0.474	1.071	68.0	19.6	86 E	—	60*
10 22	20 23.00	−54 30.5	0.477	1.075	67.5	19.6	86 E	—	61*
10 23	20 29.33	−53 31.2	0.480	1.078	67.1	19.6	87 E	—	62*
10 24	20 35.34	−52 31.3	0.483	1.081	66.7	19.6	87 E	—	63*
10 25	20 41.05	−51 31.0	0.486	1.084	66.3	19.6	87 E	—	64*
10 26	20 46.50	−50 30.4	0.489	1.087	66.0	19.7	87 E	—	65*
10 27	20 51.69	−49 29.7	0.493	1.090	65.6	19.7	88 E	—	66*
10 28	20 56.65	−48 28.8	0.496	1.093	65.2	19.7	88 E	—	67*
10 30	21 5.93	−46 27.1	0.504	1.099	64.6	19.7	88 E	—	70*
11 1	21 14.46	−44 26.0	0.512	1.104	63.9	19.7	88 E	1	72*
11 3	21 22.34	−42 25.9	0.521	1.109	63.4	19.8	89 E	3	73*
11 5	21 29.68	−40 27.4	0.530	1.114	62.8	19.8	89 E	5	75*
11 7	21 36.53	−38 30.6	0.540	1.119	62.3	19.8	89 E	6	77*
11 9	21 42.97	−36 35.8	0.550	1.123	61.8	19.9	89 E	8	79*
11 11	21 49.05	−34 43.3	0.560	1.127	61.4	19.9	89 E	10	80*
11 13	21 54.83	−32 53.0	0.571	1.131	61.0	19.9	89 E	12	81*
11 15	22 0.33	−31 5.1	0.583	1.134	60.7	20.0	88 E	14	82*
11 17	22 5.61	−29 19.7	0.594	1.138	60.3	20.0	88 E	16	82*
11 22	22 17.95	−25 7.1	0.624	1.144	59.6	20.1	87 E	20	80*
11 27	22 29.35	−21 9.6	0.655	1.149	59.0	20.2	86 E	24	76*
12 2	22 40.07	−17 26.5	0.687	1.152	58.5	20.3	85 E	28	72*
12 7	22 50.30	−13 56.7	0.720	1.154	58.1	20.4	84 E	31	67*
12 12	23 0.19	−10 38.7	0.753	1.153	57.7	20.5	82 E	34	63*
12 17	23 9.86	− 7 31.3	0.785	1.151	57.4	20.6	80 E	37	58*
12 22	23 19.39	− 4 33.2	0.817	1.147	57.2	20.6	79 E	40	54*
12 27	23 28.83	− 1 43.3	0.847	1.142	57.0	20.7	77 E	43	50*
1 1	23 38.24	+ 0 59.3	0.876	1.134	56.8	20.7	75 E	46*	46*
1 6	23 47.67	+ 3 35.7	0.903	1.125	56.7	20.8	73 E	48*	42*
1 11	23 57.16	+ 6 6.7	0.928	1.114	56.7	20.8	71 E	50*	38*
1 16	0 6.76	+ 8 32.9	0.951	1.101	56.7	20.9	69 E	52*	35*

392214 2009 UC_{20}

3 22	2 22.78	+ 4 30.1	2.611	1.876	17.5	21.5	34 E	21*	23*
4 1	2 44.86	+ 5 39.7	2.632	1.843	16.0	21.4	31 E	16*	21*
4 11	3 7.84	+ 6 45.3	2.645	1.811	14.6	21.3	27 E	12*	19*
4 21	3 31.72	+ 7 45.0	2.651	1.780	13.3	21.2	24 E	7*	17*
5 1	3 56.49	+ 8 36.8	2.651	1.751	12.1	21.2	21 E	3*	15*
5 11	4 22.11	+ 9 18.8	2.647	1.724	11.0	21.1	19 E	—	13*

392214 2009 UC_{20} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 21	4 48.51	+ 9 49.3	2.639	1.698	10.1	21.0	17 E	—	11*
5 31	5 15.64	+10 6.6	2.629	1.675	9.4	20.9	16 E	—	9*
6 10	5 43.37	+10 9.3	2.617	1.655	9.0	20.9	15 E	—	6*
6 20	6 11.60	+ 9 56.7	2.604	1.637	8.7	20.8	14 E	—	4*
6 30	6 40.18	+ 9 28.2	2.591	1.622	8.6	20.8	14 E	—	1*
7 10	7 8.94	+ 8 43.9	2.580	1.610	8.6	20.8	14 W	—	2*
7 20	7 37.76	+ 7 44.4	2.569	1.601	8.7	20.8	14 W	—	4*
7 30	8 6.48	+ 6 30.8	2.561	1.596	9.0	20.8	14 W	—	6*
8 9	8 34.97	+ 5 4.6	2.553	1.594	9.3	20.8	15 W	—	8*
8 19	9 3.16	+ 3 28.0	2.547	1.596	9.8	20.8	16 W	—	9*
8 29	9 30.95	+ 1 43.1	2.542	1.601	10.4	20.8	17 W	—	11*
9 8	9 58.30	− 0 7.7	2.537	1.609	11.2	20.8	18 W	2*	12*
9 18	10 25.20	− 2 1.8	2.531	1.621	12.1	20.9	20 W	5*	13*
9 28	10 51.62	− 3 57.0	2.524	1.636	13.1	20.9	22 W	8*	14*
10 8	11 17.57	− 5 50.6	2.514	1.654	14.3	21.0	24 W	11*	16*
10 18	11 43.06	− 7 40.7	2.501	1.674	15.6	21.1	27 W	14*	17*
10 28	12 8.09	− 9 25.0	2.483	1.697	17.1	21.1	30 W	17*	19*
11 7	12 32.67	−11 1.6	2.460	1.723	18.5	21.2	34 W	19*	22*
11 17	12 56.77	−12 28.8	2.430	1.750	20.0	21.2	37 W	22*	24*
11 27	13 20.34	−13 44.7	2.395	1.779	21.5	21.3	41 W	24*	28*
12 7	13 43.34	−14 47.9	2.352	1.810	23.0	21.3	46 W	25*	32*
12 17	14 5.66	−15 37.2	2.301	1.842	24.4	21.4	51 W	26*	37*
12 27	14 27.19	−16 11.1	2.243	1.875	25.7	21.4	56 W	27*	42*
1 6	14 47.77	−16 28.8	2.179	1.908	26.8	21.4	61 W	28*	48*
1 16	15 7.21	−16 29.2	2.107	1.943	27.7	21.4	67 W	28*	54*

397236 2006 KS_{105}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	2 38.95	+20 21.2	2.810	2.179	17.9	21.5	42 E	35*	17*
4 1	2 58.73	+20 50.9	2.852	2.139	16.3	21.4	37 E	29*	15*
4 11	3 19.39	+21 18.0	2.883	2.099	14.6	21.3	32 E	24*	13*
4 21	3 40.90	+21 40.3	2.904	2.060	12.8	21.2	27 E	19*	11*
5 1	4 3.22	+21 55.8	2.916	2.020	10.9	21.1	22 E	14*	9*
5 11	4 26.28	+22 2.2	2.918	1.981	9.0	21.0	18 E	9*	7*
5 21	4 50.03	+21 57.8	2.911	1.943	7.1	20.9	14 E	4*	5*
5 31	5 14.41	+21 40.8	2.896	1.905	5.2	20.7	10 E	—	3*
6 10	5 39.32	+21 9.5	2.874	1.868	3.4	20.6	6 E	—	—
6 20	6 4.67	+20 22.6	2.845	1.832	2.1	20.4	4 E	—	—
6 30	6 30.37	+19 19.1	2.811	1.798	2.3	20.4	4 W	—	—
7 10	6 56.32	+17 58.1	2.771	1.765	3.8	20.4	7 W	—	—
7 20	7 22.43	+16 19.2	2.729	1.735	5.6	20.4	10 W	—	4*
7 30	7 48.62	+14 22.6	2.683	1.706	7.4	20.4	12 W	—	6*
8 9	8 14.82	+12 8.6	2.636	1.680	9.2	20.4	15 W	1*	9*
8 19	8 41.00	+ 9 38.1	2.589	1.657	10.9	20.4	18 W	4*	11*
8 29	9 7.12	+ 6 52.6	2.541	1.637	12.6	20.4	21 W	7*	14*
9 8	9 33.18	+ 3 53.9	2.494	1.620	14.3	20.4	23 W	9*	16*
9 18	9 59.22	+ 0 44.3	2.449	1.606	15.8	20.4	26 W	11*	18*
9 28	10 25.25	− 2 33.5	2.406	1.596	17.3	20.4	28 W	13*	20*
10 8	10 51.32	− 5 56.4	2.365	1.590	18.7	20.4	31 W	15*	22*
10 18	11 17.49	− 9 21.3	2.327	1.588	20.0	20.4	33 W	16*	24*
10 28	11 43.80	−12 44.4	2.290	1.590	21.3	20.4	36 W	17*	26*
11 7	12 10.28	−16 2.5	2.254	1.596	22.5	20.5	38 W	18*	29*
11 17	12 36.97	−19 12.0	2.220	1.606	23.7	20.5	41 W	18*	31*
11 27	13 3.84	−22 9.8	2.185	1.619	24.8	20.5	44 W	18*	34*
12 7	13 30.84	−24 53.1	2.149	1.636	25.9	20.5	47 W	17*	38*
12 17	13 57.88	−27 19.4	2.112	1.656	27.0	20.5	50 W	16*	42*
12 27	14 24.79	−29 27.0	2.071	1.679	28.0	20.5	53 W	14*	46*
1 6	14 51.36	−31 14.5	2.027	1.705	28.9	20.6	57 W	13*	50*
1 16	15 17.31	−32 41.5	1.979	1.734	29.8	20.6	61 W	12*	55*

141447 2002 CW_{59}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	2 49.91	− 8 31.6	2.568	1.944	20.0	21.5	42 E	15*	35*
4 1	3 9.25	− 6 13.3	2.560	1.880	19.2	21.4	38 E	12*	32*
4 11	3 29.96	− 3 56.5	2.543	1.815	18.4	21.3	35 E	8*	29*
4 21	3 52.08	− 1 42.0	2.520	1.749	17.7	21.1	32 E	4*	26*
5 1	4 15.66	+ 0 28.7	2.491	1.684	16.9	21.0	29 E	1*	23*
5 11	4 40.72	+ 2 34.1	2.459	1.620	16.2	20.9	27 E	—	20*
5 21	5 7.30	+ 4 32.9	2.424	1.556	15.4	20.7	24 E	—	18*
5 31	5 35.45	+ 6 23.0	2.388	1.494	14.6	20.6	22 E	—	15*
6 10	6 5.14	+ 8 2.5	2.352	1.435	13.6	20.4	19 E	—	12*
6 20	6 36.36	+ 9 29.3	2.318	1.379	12.5	20.3	17 E	—	9*
6 30	7 9.02	+10 41.3	2.286	1.328	11.2	20.1	15 E	—	7*
7 10	7 43.00	+11 36.6	2.257	1.282	9.7	19.9	12 E	—	4*
7 20	8 18.15	+12 13.6	2.233	1.243	7.9	19.8	10 E	—	2*
7 30	8 54.24	+12 31.0	2.213	1.212	6.0	19.6	7 E	—	—
8 9	9 31.02	+12 28.2	2.198	1.191	4.2	19.5	5 E	—	—
8 19	10 8.25	+12 5.3	2.188	1.180	3.1	19.4	4 E	—	—
8 29	10 45.63	+11 23.4	2.184	1.179	3.6	19.4	4 E	—	—
9 8	11 22.89	+10 24.5	2.186	1.189	5.2	19.5	6 E	—	—
9 18	11 59.81	+ 9 11.4	2.194	1.209	7.0	19.6	8 E	2*	—
9 28	12 36.17	+ 7 47.7	2.210	1.239	8.7	19.8	11 E	4*	—
10 8	13 11.77	+ 6 17.9	2.232	1.277	10.0	19.9	13 E	6*	—
10 18	13 46.48	+ 4 46.3	2.261	1.322	11.1	20.1	15 E	7*	—

141447 2002 CW_{59} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 28	14 20.17	+ 3 17.3	2.296	1.373	11.9	20.2	17 E	7*	—
11 7	14 52.76	+ 1 54.9	2.336	1.429	12.5	20.4	18 E	8*	—
11 17	15 24.16	+ 0 42.2	2.381	1.488	13.0	20.5	20 W	9*	—
11 27	15 54.32	− 0 18.3	2.427	1.549	13.3	20.7	21 W	12*	—
12 7	16 23.18	− 1 5.1	2.474	1.613	13.7	20.8	23 W	15*	—
12 17	16 50.71	− 1 37.6	2.520	1.677	14.2	20.9	25 W	18*	—
12 27	17 16.88	− 1 55.5	2.562	1.742	14.7	21.1	27 W	21*	—
1 6	17 41.66	− 1 59.3	2.600	1.808	15.4	21.2	29 W	23*	3*
1 16	18 5.04	− 1 50.0	2.631	1.873	16.2	21.3	32 W	25*	8*

277958 2006 SP_{134}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	2 54.56	+25 17.7	2.661	2.121	20.3	21.5	48 E	41*	17*
4 1	3 10.06	+26 9.6	2.673	2.034	19.0	21.3	41 E	35*	14*
4 11	3 27.28	+27 3.9	2.666	1.943	17.5	21.2	36 E	29*	11*
4 21	3 46.30	+27 58.4	2.643	1.848	16.0	21.0	30 E	24*	9*
5 1	4 7.24	+28 50.6	2.602	1.749	14.4	20.8	26 E	19*	6*
5 11	4 30.28	+29 37.5	2.544	1.645	12.9	20.6	21 E	15*	4*
5 21	4 55.65	+30 15.4	2.470	1.536	11.5	20.3	18 E	11*	2*
5 31	5 23.64	+30 39.7	2.382	1.423	10.2	20.0	14 E	8*	—
6 5	5 38.71	+30 44.7	2.333	1.364	9.7	19.8	13 E	7*	—
6 10	5 54.56	+30 43.9	2.281	1.304	9.3	19.7	12 E	6*	—
6 15	6 11.21	+30 35.9	2.225	1.243	9.0	19.5	11 E	5*	—
6 20	6 28.73	+30 19.6	2.168	1.181	8.8	19.3	10 E	4*	—
6 25	6 47.14	+29 53.3	2.108	1.118	8.7	19.2	10 E	3*	—
6 30	7 6.47	+29 15.5	2.046	1.054	8.7	19.0	9 E	3*	—
7 5	7 26.73	+28 24.2	1.982	0.989	9.0	18.8	9 E	2*	—
7 10	7 47.95	+27 17.1	1.917	0.924	9.4	18.6	9 E	2*	—
7 15	8 10.13	+25 51.8	1.851	0.859	10.1	18.4	9 E	2*	—
7 20	8 33.25	+24 5.9	1.783	0.795	11.3	18.2	9 E	2*	—
7 25	8 57.28	+21 56.8	1.716	0.733	13.2	18.0	9 E	2*	1*
7 30	9 22.16	+19 22.0	1.647	0.675	16.0	17.8	11 E	1*	3*
8 4	9 47.83	+16 19.7	1.577	0.623	20.1	17.7	12 E	1*	5*
8 9	10 14.18	+12 49.4	1.507	0.582	25.6	17.6	14 E	1*	8*
8 14	10 41.10	+ 8 52.3	1.435	0.553	32.5	17.6	17 E	1*	11*
8 19	11 8.48	+ 4 32.2	1.364	0.542	40.2	17.6	20 E	1*	14*
8 24	11 36.29	− 0 5.0	1.294	0.549	47.8	17.8	24 E	—	18*
8 29	12 4.67	− 4 52.0	1.230	0.573	54.3	17.9	27 E	—	21*
9 3	12 33.90	− 9 41.1	1.174	0.611	59.2	18.1	31 E	—	25*
9 8	13 4.34	−14 24.6	1.129	0.661	62.2	18.3	35 E	—	29*
9 10	13 16.92	−16 14.6	1.115	0.682	62.8	18.3	37 E	—	31*
9 12	13 29.77	−18 1.7	1.103	0.705	63.2	18.4	39 E	—	32*
9 14	13 42.87	−19 45.5	1.093	0.729	63.4	18.5	40 E	—	34*
9 16	13 56.23	−21 25.2	1.085	0.753	63.3	18.5	42 E	1*	35*
9 18	14 9.85	−23 0.3	1.080	0.778	63.0	18.6	44 E	1*	37*
9 20	14 23.70	−24 30.2	1.077	0.803	62.6	18.6	45 E	1*	38*
9 22	14 37.75	−25 54.4	1.076	0.829	62.0	18.7	47 E	1*	40*
9 24	14 51.97	−27 12.4	1.078	0.855	61.3	18.7	48 E	2*	41*
9 26	15 6.33	−28 23.8	1.082	0.881	60.4	18.8	50 E	2*	43*
9 28	15 20.76	−29 28.3	1.088	0.907	59.5	18.8	51 E	2*	44*
10 3	15 56.83	−31 38.5	1.113	0.972	56.9	18.9	54 E	3*	47*
10 8	16 32.17	−33 4.8	1.149	1.037	54.1	19.1	57 E	5*	50*
10 13	17 5.98	−33 51.0	1.197	1.101	51.3	19.2	59 E	6*	53*
10 18	17 37.66	−34 3.2	1.254	1.165	48.5	19.3	61 E	7*	55*
10 23	18 6.89	−33 48.3	1.319	1.227	45.8	19.5	62 E	8*	56*
10 28	18 33.58	−33 13.2	1.391	1.288	43.3	19.6	63 E	10*	57*
11 2	18 57.83	−32 23.4	1.468	1.349	41.0	19.8	63 E	11*	57*
11 7	19 19.83	−31 23.7	1.550	1.407	38.8	19.9	63 E	12*	57*
11 12	19 39.86	−30 17.4	1.636	1.465	36.7	20.1	62 E	14*	56*
11 17	19 58.14	−29 7.0	1.724	1.521	34.8	20.2	61 E	15*	55*
11 22	20 14.94	−27 54.4	1.815	1.577	32.9	20.4	60 E	16*	53*
11 27	20 30.44	−26 40.8	1.907	1.631	31.2	20.5	59 E	17*	51*
12 2	20 44.83	−25 27.0	2.000	1.683	29.5	20.6	57 E	19*	49*
12 7	20 58.27	−24 13.5	2.094	1.735	27.8	20.7	55 E	20*	46*
12 12	21 10.90	−23 0.8	2.188	1.786	26.3	20.9	53 E	20*	44*
12 17	21 22.82	−21 48.9	2.281	1.835	24.7	21.0	51 E	21*	41*
12 22	21 34.14	−20 38.1	2.374	1.883	23.3	21.1	49 E	22*	38*
12 27	21 44.93	−19 28.4	2.466	1.931	21.8	21.1	47 E	22*	35*
1 1	21 55.25	−18 19.9	2.556	1.977	20.4	21.2	44 E	22*	32*
1 6	22 5.15	−17 12.6	2.644	2.022	19.0	21.3	42 E	22*	30*
1 11	22 14.70	−16 6.4	2.731	2.067	17.6	21.4	39 E	21*	27*
1 16	22 23.92	−15 1.4	2.815	2.110	16.2	21.4	37 E	20*	24*

4581 Asclepius

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	4 10.05	+18 5.0	0.075	0.964	113.6	19.4	62 E	48*	34*
3 23	4 31.73	+19 59.4	0.073	0.970	109.3	19.1	67 E	52*	35*
3 24	4 55.04	+21 48.8	0.071	0.977	104.6	18.8	71 E	57*	36*
3 25	5 19.67	+23 28.6	0.071	0.983	99.8	18.5	76 E	61*	37*
3 26	5 45.19	+24 54.6	0.071	0.989	94.8	18.3	81 E	64*	37*
3 27	6 11.00	+26 3.5	0.071	0.995	89.9	18.1	86 E	68*	37*
3 28	6 36.51	+26 53.7	0.073	1.002	85.2	18.0	91 E	70*	37*

4581 Asclepius *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 29	7 1.15	+27 25.3	0.075	1.008	80.7	17.9	95 E	72*	37
3 30	7 24.45	+27 40.1	0.077	1.014	76.5	17.8	99 E	73	36
3 31	7 46.13	+27 40.6	0.081	1.020	72.7	17.8	103 E	73	36
4 1	8 6.02	+27 29.8	0.084	1.026	69.2	17.8	106 E	72	37
4 2	8 24.10	+27 10.5	0.089	1.032	66.1	17.8	109 E	72	37
4 3	8 40.43	+26 45.3	0.093	1.038	63.4	17.9	112 E	72	37
4 4	8 55.14	+26 16.3	0.098	1.044	60.9	17.9	114 E	71	38
4 5	9 8.36	+25 44.9	0.103	1.050	58.8	18.0	116 E	71	38
4 6	9 20.26	+25 12.3	0.109	1.056	56.9	18.1	118 E	70	39
4 7	9 30.98	+24 39.4	0.114	1.062	55.3	18.1	119 E	70	39
4 8	9 40.67	+24 6.7	0.120	1.068	53.8	18.2	121 E	69	40
4 9	9 49.44	+23 34.7	0.126	1.073	52.6	18.3	122 E	69	40
4 10	9 57.42	+23 3.4	0.132	1.079	51.4	18.4	123 E	68	41
4 11	10 4.71	+22 33.2	0.139	1.085	50.5	18.5	123 E	68	41
4 13	10 17.51	+21 35.7	0.152	1.096	48.9	18.6	125 E	67	42
4 15	10 28.42	+20 42.3	0.165	1.107	47.7	18.8	125 E	66	43
4 17	10 37.86	+19 52.7	0.179	1.118	46.8	19.0	126 E	65	44
4 19	10 46.14	+19 6.4	0.193	1.128	46.2	19.1	126 E	64	45
4 21	10 53.50	+18 22.9	0.207	1.139	45.7	19.3	126 E	63	46
4 23	11 0.13	+17 41.9	0.222	1.149	45.3	19.5	126 E	63	46
4 25	11 6.17	+17 2.9	0.237	1.159	45.1	19.6	125 E	62	47
4 27	11 11.73	+16 25.6	0.252	1.169	44.9	19.8	125 E	61	48
4 29	11 16.90	+15 49.8	0.267	1.179	44.9	19.9	124 E	61	48
5 1	11 21.75	+15 15.2	0.282	1.188	44.8	20.0	124 E	60	49
5 6	11 32.79	+13 53.0	0.322	1.211	45.0	20.4	122 E	59	50
5 11	11 42.75	+12 35.2	0.362	1.232	45.2	20.7	120 E	58	51
5 16	11 52.00	+11 20.4	0.404	1.252	45.6	21.0	118 E	56	53
5 21	12 0.82	+10 7.5	0.446	1.271	45.9	21.2	116 E	55	54
5 26	12 9.41	+ 8 55.7	0.489	1.288	46.3	21.5	113 E	54*	55

289315 2005 AN_{26}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	12 52.22	− 3 45.9	2.629	3.610	3.3	23.6	168 W	41	68
4 1	12 43.05	− 2 40.8	2.633	3.632	0.5	23.4	178 W	42	67
4 11	12 34.03	− 1 37.6	2.669	3.652	3.5	23.7	167 E	43	66
4 21	12 25.82	− 0 40.9	2.735	3.671	6.6	23.9	155 E	44	65
5 1	12 18.95	+ 0 5.8	2.830	3.689	9.4	24.1	143 E	45	64

494838 2007 UU_{104}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	12 56.36	+ 6 26.9	2.126	3.101	4.6	22.4	166 W	51	58
3 27	12 51.75	+ 6 54.4	2.114	3.098	3.8	22.3	168 W	52	57
4 1	12 46.99	+ 7 20.1	2.110	3.095	3.8	22.3	168 W	52	57
4 6	12 42.22	+ 7 43.1	2.114	3.092	4.8	22.4	165 E	53	56
4 11	12 37.53	+ 8 3.0	2.125	3.089	6.2	22.5	161 E	53	56
4 16	12 33.03	+ 8 19.2	2.143	3.085	7.7	22.6	156 E	53	56
4 21	12 28.82	+ 8 31.5	2.168	3.081	9.3	22.6	150 E	54	55

217796 2000 TO_{64}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	12 59.48	−31 16.4	2.894	3.768	8.3	22.8	147 W	14	85
3 27	12 54.89	−30 41.0	2.883	3.786	7.3	22.7	151 W	14	85
4 1	12 50.25	−30 0.7	2.879	3.805	6.5	22.7	154 W	15	86
4 6	12 45.65	−29 16.1	2.882	3.823	5.9	22.7	157 E	16	87
4 11	12 41.19	−28 27.8	2.893	3.840	5.6	22.7	158 E	17	88
4 16	12 36.94	−27 36.6	2.911	3.858	5.7	22.7	157 E	17	88
4 21	12 32.98	−26 43.3	2.938	3.875	6.2	22.8	156 E	18	89

495856 2003 KM_{11}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	12 59.66	− 9 33.3	1.682	2.653	6.0	23.2	164 W	35	74
4 1	12 49.96	− 8 13.7	1.616	2.614	1.6	22.8	176 W	37	72
4 11	12 39.58	− 6 44.1	1.579	2.572	3.8	22.9	170 E	38	71
4 21	12 29.64	− 5 12.9	1.571	2.530	8.7	23.1	158 E	40	69
5 1	12 21.23	− 3 49.0	1.590	2.487	13.3	23.3	146 E	41	68

363298 2002 KL_3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 1.10	+23 20.3	2.467	3.382	7.8	23.3	153 W	68	41
3 27	12 55.21	+23 54.0	2.471	3.387	7.8	23.3	152 W	69	40
4 1	12 49.22	+24 22.2	2.483	3.392	8.2	23.3	151 W	69	40
4 6	12 43.24	+24 44.4	2.502	3.396	8.8	23.3	149 E	70	39
4 11	12 37.39	+25 0.2	2.528	3.400	9.7	23.4	145 E	70	39
4 16	12 31.78	+25 9.7	2.561	3.403	10.6	23.5	141 E	70	39
4 21	12 26.51	+25 12.9	2.601	3.406	11.6	23.5	137 E	70	39

456051 2006 AW

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 1.53	−22 22.2	2.364	3.291	7.5	23.8	154 W	23	86
3 27	12 56.33	−21 58.8	2.353	3.304	6.2	23.7	159 W	23	86
4 1	12 51.03	−21 31.1	2.349	3.317	5.1	23.7	163 W	23	86
4 6	12 45.74	−20 59.7	2.353	3.330	4.5	23.7	165 E	24	85
4 11	12 40.57	−20 25.3	2.364	3.342	4.5	23.7	165 E	25	84
4 16	12 35.63	−19 48.7	2.384	3.354	5.2	23.7	162 E	25	84
4 21	12 31.00	−19 10.8	2.410	3.365	6.3	23.8	158 E	26	83

162039 1996 JG

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	13 1.64	+ 0 39.7	1.227	2.207	6.3	22.1	166 W	46	63
3 27	12 54.07	+ 1 28.9	1.183	2.174	3.9	21.9	171 W	46	63
4 1	12 45.79	+ 2 20.1	1.145	2.141	3.2	21.8	173 W	47	62
4 6	12 36.97	+ 3 11.7	1.116	2.106	5.3	21.8	169 E	48	61
4 11	12 27.87	+ 4 2.0	1.093	2.071	8.5	21.9	162 E	49	60
4 16	12 18.74	+ 4 49.3	1.078	2.034	11.8	21.9	155 E	50	59
4 21	12 9.84	+ 5 31.9	1.070	1.997	15.3	22.0	148 E	51	58
4 26	12 1.43	+ 6 8.5	1.068	1.959	18.6	22.1	142 E	51	58
5 1	11 53.75	+ 6 38.1	1.071	1.920	21.8	22.1	135 E	52	57

402867 2007 RT_{149}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 3.04	+ 5 12.4	2.187	3.159	4.8	22.4	165 W	50	59
3 27	12 58.63	+ 5 44.4	2.178	3.161	3.8	22.3	168 W	51	58
4 1	12 54.09	+ 6 14.7	2.177	3.164	3.5	22.3	169 W	51	58
4 6	12 49.51	+ 6 42.6	2.184	3.166	4.2	22.4	167 E	52	57
4 11	12 45.00	+ 7 7.6	2.198	3.167	5.5	22.5	162 E	52	57
4 16	12 40.66	+ 7 29.1	2.219	3.169	7.0	22.6	157 E	52	57
4 21	12 36.58	+ 7 46.8	2.247	3.170	8.5	22.6	152 E	53	56

145485 2005 UN_{398}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 4.95	+ 4 21.4	5.997	6.961	2.2	22.6	164 W	49	60
4 1	13 0.63	+ 4 54.6	5.979	6.964	1.5	22.5	169 W	50	59
4 11	12 56.21	+ 5 24.9	5.992	6.965	2.1	22.5	165 E	50	59
4 21	12 51.94	+ 5 50.9	6.035	6.967	3.3	22.6	156 E	51	58
5 1	12 48.03	+ 6 11.3	6.107	6.968	4.6	22.7	146 E	51	58

366949 2005 WP_1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 6.37	−44 59.2	2.871	3.631	11.5	22.8	134 W	—	71
3 27	13 1.26	−44 59.3	2.841	3.633	10.8	22.7	137 W	—	71
4 1	12 55.92	−44 52.6	2.816	3.635	10.3	22.7	140 W	—	71
4 6	12 50.49	−44 39.1	2.797	3.636	9.8	22.7	142 E	—	71
4 11	12 45.09	−44 19.1	2.785	3.637	9.5	22.7	143 E	1	72
4 16	12 39.83	−43 52.8	2.778	3.638	9.3	22.6	144 E	1	72
4 21	12 34.85	−43 20.7	2.778	3.639	9.3	22.6	144 E	2	73

366945 2005 VL_{118}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 6.39	−44 29.5	2.870	3.635	11.4	22.5	134 W	1	72
3 27	13 1.36	−44 28.8	2.836	3.633	10.7	22.4	137 W	1	72
4 1	12 56.09	−44 21.4	2.808	3.631	10.2	22.4	140 W	1	72
4 6	12 50.71	−44 7.1	2.786	3.629	9.7	22.4	142 E	1	72
4 11	12 45.35	−43 46.3	2.770	3.627	9.4	22.3	144 E	1	72
4 16	12 40.13	−43 19.2	2.760	3.624	9.2	22.3	145 E	2	73
4 21	12 35.16	−42 46.4	2.756	3.622	9.3	22.3	144 E	2	73
4 26	12 30.55	−42 8.5	2.759	3.619	9.5	22.3	144 E	3	74
5 1	12 26.40	−41 26.6	2.768	3.615	9.9	22.3	142 E	4	75

523821 2011 RF

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 9.17	−19 19.3	1.205	2.153	11.0	23.3	156 W	26	83
3 27	13 3.67	−18 41.8	1.173	2.142	8.6	23.1	161 W	26	83
4 1	12 57.69	−17 56.2	1.147	2.131	6.5	22.9	166 W	27	82
4 6	12 51.44	−17 3.4	1.128	2.119	5.1	22.8	169 E	28	81
4 11	12 45.13	−16 4.7	1.115	2.107	5.3	22.8	169 E	29	80
4 16	12 38.98	−15 1.6	1.109	2.095	7.1	22.9	165 E	30	79
4 21	12 33.20	−13 56.0	1.110	2.082	9.6	22.9	160 E	31	78

455213 2001 OE_{84}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 9.40	− 2 16.1	2.155	3.125	5.0	22.5	164 W	43	66
4 1	12 59.28	− 1 29.8	2.152	3.149	1.7	22.3	175 W	44	65
4 11	12 49.07	− 0 46.3	2.180	3.171	3.3	22.4	169 E	44	65
4 21	12 39.63	− 0 10.2	2.239	3.192	6.8	22.7	158 E	45	64
5 1	12 31.66	+ 0 15.3	2.325	3.212	10.0	22.9	146 E	45	64

468837 2012 UP_{27}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 9.70	− 8 19.1	0.885	1.859	9.4	22.7	162 W	37	72
3 27	13 4.12	− 7 19.5	0.857	1.846	6.0	22.5	169 W	38	71
4 1	12 57.94	− 6 13.8	0.834	1.832	2.3	22.2	176 W	39	70
4 6	12 51.37	− 5 4.0	0.818	1.818	1.4	22.1	177 E	40	69
4 11	12 44.69	− 3 52.3	0.807	1.803	5.3	22.3	170 E	41	68
4 16	12 38.15	− 2 41.2	0.803	1.788	9.1	22.4	164 E	42	67
4 21	12 32.02	− 1 32.9	0.805	1.773	12.9	22.5	157 E	43	66

470510 2008 CJ_{116}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 12.00	−23 20.9	1.411	2.339	11.5	22.4	152 W	22	87
3 27	13 5.16	−23 18.5	1.389	2.340	9.6	22.3	157 W	22	87
4 1	12 57.93	−23 9.0	1.373	2.341	8.0	22.2	161 W	22	87
4 6	12 50.51	−22 52.5	1.365	2.341	7.0	22.1	163 E	22	87
4 11	12 43.12	−22 29.8	1.363	2.341	7.0	22.1	163 E	23	86
4 16	12 35.99	−22 1.9	1.368	2.340	8.0	22.2	161 E	23	86
4 21	12 29.30	−21 29.9	1.380	2.339	9.6	22.3	157 E	23	86
4 26	12 23.23	−20 55.4	1.399	2.338	11.5	22.4	152 E	24	85
5 1	12 17.92	−20 19.7	1.423	2.336	13.5	22.5	147 E	25	84

405007 2000 VJ_{19}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	13 13.68	− 1 38.1	1.944	2.912	5.7	22.7	163 W	43	66
4 1	13 4.35	− 0 49.3	1.906	2.901	2.3	22.5	173 W	44	65
4 11	12 54.47	− 0 2.5	1.897	2.888	3.5	22.5	170 E	45	64
4 21	12 44.98	+ 0 36.7	1.916	2.875	7.4	22.7	158 E	46	63
5 1	12 36.79	+ 1 4.1	1.963	2.861	11.1	22.9	147 E	46	63

496005 2007 XJ_{16}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 15.15	−17 11.4	1.942	2.881	8.0	23.4	156 W	28	81
4 1	13 4.58	−16 31.6	1.855	2.837	4.6	23.1	167 W	28	81
4 11	12 52.91	−15 35.2	1.798	2.791	3.4	22.9	170 E	29	80
4 21	12 41.22	−14 27.0	1.772	2.744	6.6	23.0	162 E	31	78
5 1	12 30.64	−13 14.0	1.774	2.695	10.7	23.2	150 E	32	77

523812 2008 TY_3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 17.22	− 6 54.5	1.500	2.463	7.5	27.3	161 W	38	71
3 27	13 11.58	− 6 25.3	1.470	2.454	5.0	27.1	168 W	39	70
4 1	13 5.54	− 5 53.7	1.448	2.444	2.4	26.9	174 W	39	70
4 6	12 59.24	− 5 20.7	1.433	2.434	0.5	26.7	179 E	40	69
4 11	12 52.86	− 4 47.2	1.426	2.423	3.0	26.9	173 E	40	69
4 16	12 46.58	− 4 14.3	1.425	2.412	5.7	27.0	166 E	41	68
4 21	12 40.56	− 3 43.1	1.432	2.400	8.4	27.2	160 E	41	68

242211 2003 QB_{90}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 17.83	− 1 16.0	1.981	2.945	6.0	22.4	162 W	44	65
3 27	13 13.38	− 0 40.7	1.945	2.927	4.2	22.3	167 W	44	65
4 1	13 8.60	− 0 4.6	1.916	2.909	2.7	22.1	172 W	45	64
4 6	13 3.60	+ 0 31.4	1.895	2.891	2.4	22.1	173 W	46	63
4 11	12 58.50	+ 1 6.5	1.882	2.873	3.7	22.1	169 E	46	63
4 16	12 53.41	+ 1 39.8	1.876	2.854	5.6	22.2	164 E	47	62
4 21	12 48.46	+ 2 10.6	1.877	2.835	7.6	22.3	158 E	47	62
4 26	12 43.78	+ 2 38.1	1.885	2.815	9.6	22.4	152 E	48	61
5 1	12 39.46	+ 3 1.7	1.899	2.795	11.5	22.4	146 E	48	61

267270 2001 RP_{17}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 18.02	−13 10.1	2.338	3.284	6.5	23.0	158 W	32	77
4 1	13 8.55	−12 32.4	2.334	3.322	3.1	22.9	170 W	32	77
4 11	12 58.90	−11 48.1	2.360	3.359	1.8	22.8	174 E	33	76
4 21	12 49.87	−11 1.7	2.418	3.394	4.7	23.1	164 E	34	75
5 1	12 42.13	−10 18.0	2.504	3.429	7.8	23.3	152 E	35	74

483531 2003 UF_{22}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 20.04	− 2 38.1	1.444	2.409	7.6	23.3	161 W	42	67
3 27	13 13.63	− 2 18.6	1.437	2.421	5.1	23.1	168 W	43	66
4 1	13 6.97	− 1 59.1	1.438	2.433	2.7	23.0	173 W	43	66
4 6	13 0.23	− 1 40.3	1.446	2.445	1.9	23.0	175 E	43	66
4 11	12 53.61	− 1 23.0	1.462	2.456	3.8	23.1	171 E	44	65
4 16	12 47.28	− 1 8.1	1.485	2.467	6.2	23.3	165 E	44	65
4 21	12 41.38	− 0 56.0	1.514	2.477	8.5	23.5	159 E	44	65

508774 1999 JE_1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 21.47	+21 33.6	1.273	2.199	12.6	22.8	151 W	67	42
3 27	13 11.64	+22 31.2	1.254	2.188	12.2	22.7	152 W	68	41
4 1	13 1.18	+23 20.0	1.243	2.176	12.6	22.7	152 W	68	41
4 6	12 50.37	+23 57.9	1.240	2.162	13.6	22.7	149 E	69	40
4 11	12 39.53	+24 23.7	1.243	2.148	15.1	22.8	146 E	69	40
4 16	12 28.98	+24 36.8	1.254	2.133	17.0	22.8	141 E	70	39
4 21	12 19.00	+24 37.2	1.271	2.116	19.1	22.9	137 E	70	39

329614 2003 KU_2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 21.85	− 0 52.7	2.918	3.874	4.8	23.3	161 W	44	65
4 1	13 13.74	+ 0 4.1	2.846	3.836	2.4	23.1	171 W	45	64
4 11	13 4.99	+ 1 0.4	2.806	3.797	2.6	23.0	170 E	46	63
4 21	12 56.21	+ 1 51.8	2.797	3.756	5.3	23.1	160 E	47	62
5 1	12 48.05	+ 2 34.6	2.818	3.714	8.2	23.3	148 E	48	61

497049 2003 SW_{324}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 23.10	− 9 42.4	1.512	2.467	8.4	22.2	159 W	35	74
4 1	13 13.64	− 9 6.9	1.443	2.435	3.7	21.9	171 W	36	73
4 11	13 2.86	− 8 22.2	1.401	2.402	1.6	21.6	176 E	37	72
4 21	12 51.98	− 7 34.5	1.386	2.368	6.8	21.9	164 E	37	72
5 1	12 42.32	− 6 51.0	1.398	2.334	11.9	22.1	152 E	38	71

313056 2000 SZ_{28}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 23.58	−13 11.3	2.118	3.060	7.3	22.4	157 W	32	77
4 1	13 15.20	−12 5.0	2.075	3.061	3.6	22.2	169 W	33	76
4 11	13 6.21	−10 49.8	2.061	3.062	1.3	22.0	176 E	34	75
4 21	12 57.48	− 9 31.7	2.078	3.062	4.7	22.2	165 E	35	74
5 1	12 49.82	− 8 17.2	2.124	3.060	8.4	22.4	154 E	37	72

495863 2003 XV_4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	13 25.23	−18 40.4	2.087	3.011	8.5	22.3	153 W	26	83
4 1	13 16.80	−17 48.8	2.024	2.998	5.2	22.0	164 W	27	82
4 11	13 7.54	−16 41.9	1.988	2.983	3.0	21.9	171 E	28	81
4 21	12 58.37	−15 25.0	1.983	2.967	4.8	22.0	166 E	30	79
5 1	12 50.19	−14 4.8	2.006	2.950	8.3	22.1	155 E	31	78

511064 2013 TH_5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 29.56	−40 1.9	3.300	4.078	9.7	23.9	136 W	5	76
3 27	13 25.22	−39 57.1	3.257	4.073	9.0	23.8	140 W	5	76
4 1	13 20.61	−39 46.8	3.220	4.068	8.4	23.8	144 W	5	76
4 6	13 15.82	−39 31.2	3.189	4.063	7.8	23.7	147 W	5	76
4 11	13 10.95	−39 10.3	3.165	4.058	7.3	23.7	149 E	6	77
4 16	13 6.09	−38 44.3	3.148	4.052	7.0	23.6	151 E	6	77
4 21	13 1.34	−38 13.6	3.138	4.046	6.9	23.6	151 E	7	78
4 26	12 56.79	−37 38.6	3.135	4.040	7.1	23.6	150 E	7	78

139359 2001 ME_1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 29.64	− 1 52.4	3.530	4.474	4.6	22.9	159 W	43	66
4 1	13 21.41	− 0 59.5	3.519	4.506	2.3	22.8	170 W	44	65
4 11	13 12.89	− 0 8.5	3.542	4.536	1.8	22.8	172 E	45	64
4 21	13 4.61	+ 0 37.4	3.598	4.565	3.9	22.9	162 E	46	63
5 1	12 57.04	+ 1 15.7	3.686	4.593	6.1	23.1	151 E	46	63

419922 2011 BJ_{24}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 32.16	− 8 6.4	3.005	3.943	5.6	23.5	157 W	37	72
4 1	13 24.26	− 7 9.2	2.958	3.944	2.7	23.3	169 W	38	71
4 11	13 15.81	− 6 8.9	2.942	3.944	0.6	23.1	178 E	39	70
4 21	13 7.43	− 5 9.4	2.959	3.943	3.5	23.4	166 E	40	69
5 1	12 59.70	− 4 14.6	3.007	3.940	6.3	23.6	154 E	41	68

457499 2008 VD_4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 32.92	− 8 48.2	1.697	2.642	8.5	22.2	157 W	36	73
4 1	13 23.68	− 8 4.6	1.641	2.629	4.1	21.9	169 W	37	72
4 11	13 13.30	− 7 14.4	1.614	2.616	0.7	21.6	178 E	38	71
4 21	13 2.88	− 6 23.5	1.615	2.601	5.4	22.0	166 E	39	70
5 1	12 53.53	− 5 38.5	1.644	2.586	9.9	22.2	154 E	39	70

399655 2004 RR_{175}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 34.39	−11 13.7	1.894	2.832	8.4	22.5	156 W	34	75
4 1	13 26.06	−10 7.4	1.834	2.818	4.3	22.2	168 W	35	74
4 11	13 16.67	− 8 51.7	1.801	2.804	0.3	21.9	179 E	36	73
4 21	13 7.19	− 7 33.1	1.799	2.788	4.5	22.2	167 E	37	72
5 1	12 58.61	− 6 18.9	1.825	2.771	8.8	22.4	155 E	39	70

421771 2014 QB_2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 37.64	+ 6 50.8	2.233	3.169	7.4	21.9	156 W	52	57
3 27	13 33.66	+ 7 23.3	2.219	3.175	6.2	21.8	160 W	52	57
4 1	13 29.41	+ 7 54.1	2.212	3.181	5.3	21.8	163 W	53	56
4 6	13 24.99	+ 8 22.4	2.212	3.186	5.0	21.8	164 W	53	56
4 11	13 20.49	+ 8 47.6	2.220	3.191	5.3	21.8	163 W	54	55
4 16	13 16.02	+ 9 9.2	2.234	3.196	6.2	21.8	160 E	54	55
4 21	13 11.67	+ 9 26.7	2.256	3.200	7.3	21.9	156 E	54	55
4 26	13 7.56	+ 9 39.7	2.284	3.205	8.6	22.0	151 E	55	54
5 1	13 3.75	+ 9 48.1	2.319	3.209	9.9	22.1	147 E	55	54
5 6	13 0.32	+ 9 52.0	2.360	3.213	11.2	22.2	142 E	55	54
5 11	12 57.32	+ 9 51.3	2.406	3.217	12.4	22.3	137 E	55	54

506425 2000 DQ_{110}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 38.45	−79 15.3	4.660	4.939	11.4	24.1	100 W	—	37
3 24	13 32.03	−79 27.2	4.651	4.945	11.4	24.1	101 W	—	37
3 26	13 25.25	−79 37.8	4.643	4.950	11.4	24.1	102 W	—	36
3 28	13 18.13	−79 47.0	4.635	4.955	11.3	24.1	103 W	—	36
3 30	13 10.73	−79 54.9	4.628	4.960	11.3	24.1	104 W	—	36
4 1	13 3.07	−80 1.2	4.621	4.966	11.2	24.1	104 W	—	36
4 3	12 55.21	−80 6.1	4.614	4.971	11.2	24.1	105 W	—	36
4 5	12 47.22	−80 9.5	4.608	4.976	11.1	24.1	106 E	—	36
4 7	12 39.16	−80 11.3	4.602	4.981	11.1	24.1	107 E	—	36
4 9	12 31.08	−80 11.6	4.597	4.986	11.1	24.1	107 E	—	36
4 11	12 23.06	−80 10.3	4.592	4.991	11.0	24.1	108 E	—	36
4 12	12 19.09	−80 9.1	4.590	4.994	11.0	24.1	108 E	—	36
4 13	12 15.15	−80 7.5	4.588	4.996	11.0	24.1	108 E	—	36
4 14	12 11.26	−80 5.6	4.586	4.999	11.0	24.1	109 E	—	36
4 15	12 7.43	−80 3.3	4.584	5.001	10.9	24.1	109 E	—	36
4 16	12 3.65	−80 0.7	4.582	5.004	10.9	24.1	109 E	—	36
4 17	11 59.93	−79 57.7	4.581	5.006	10.9	24.1	110 E	—	36
4 18	11 56.29	−79 54.3	4.579	5.009	10.9	24.1	110 E	—	36
4 19	11 52.72	−79 50.7	4.578	5.011	10.9	24.1	110 E	—	36
4 20	11 49.24	−79 46.7	4.577	5.014	10.8	24.1	110 E	—	36
4 21	11 45.83	−79 42.4	4.576	5.016	10.8	24.1	110 E	—	36

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		506425 2000 DQ_{110}				*(continuation)*			
	h m	° ′			°	m	°	°	°
4 23	11 39.30	−79 32.8	4.574	5.021	10.8	24.1	111 E	—	36
4 25	11 33.15	−79 22.2	4.573	5.026	10.8	24.1	111 E	—	37
4 27	11 27.40	−79 10.5	4.572	5.031	10.7	24.1	112 E	—	37
4 29	11 22.06	−78 57.9	4.572	5.036	10.7	24.1	112 E	—	37
		483471 2002 LS_{32}							
3 22	13 38.46	−19 6.1	1.982	2.892	9.7	22.7	151 W	26	83
3 27	13 32.54	−18 34.6	1.961	2.905	7.8	22.6	157 W	26	83
4 1	13 26.29	−17 58.4	1.947	2.916	5.8	22.5	163 W	27	82
4 6	13 19.85	−17 18.3	1.941	2.927	4.0	22.4	168 W	28	81
4 11	13 13.38	−16 35.0	1.943	2.938	2.8	22.4	172 E	28	81
4 16	13 7.02	−15 49.4	1.953	2.947	3.2	22.4	171 E	29	80
4 21	13 0.90	−15 2.6	1.971	2.957	4.6	22.5	166 E	30	79
4 26	12 55.15	−14 15.6	1.997	2.965	6.4	22.7	161 E	31	78
		429192 2009 WM_{53}							
3 22	13 38.54	+ 4 6.7	2.664	3.599	6.4	22.5	156 W	49	60
4 1	13 30.91	+ 5 0.1	2.646	3.619	4.2	22.4	165 W	50	59
4 11	13 22.72	+ 5 47.0	2.657	3.637	3.9	22.4	166 W	51	58
4 21	13 14.62	+ 6 23.8	2.699	3.655	5.6	22.5	159 E	51	58
5 1	13 7.25	+ 6 47.6	2.769	3.672	8.0	22.7	149 E	52	57
		400242 2007 NZ_{4}							
3 22	13 39.07	− 1 42.4	1.939	2.881	7.9	21.5	157 W	43	66
3 27	13 35.07	− 1 11.7	1.911	2.877	6.1	21.4	162 W	44	65
4 1	13 30.71	− 0 40.5	1.889	2.872	4.4	21.3	167 W	44	65
4 6	13 26.08	− 0 9.7	1.875	2.868	3.1	21.2	171 W	45	64
4 11	13 21.31	+ 0 20.1	1.868	2.863	3.0	21.1	171 W	45	64
4 16	13 16.51	+ 0 48.0	1.869	2.858	4.2	21.2	168 E	46	63
4 21	13 11.80	+ 1 13.4	1.876	2.852	5.9	21.3	163 E	46	63
4 26	13 7.30	+ 1 35.6	1.891	2.847	7.8	21.4	158 E	47	62
5 1	13 3.13	+ 1 54.1	1.912	2.841	9.6	21.5	152 E	47	62
5 6	12 59.36	+ 2 8.5	1.939	2.835	11.4	21.6	146 E	47	62
5 11	12 56.08	+ 2 18.5	1.972	2.829	13.0	21.7	141 E	47	62
		506355 2017 PB_{25}							
3 22	13 39.93	−26 14.0	2.402	3.274	9.9	22.4	146 W	19	90
4 1	13 31.85	−25 56.7	2.320	3.255	7.3	22.2	155 W	19	90
4 11	13 22.66	−25 20.9	2.265	3.236	5.2	22.1	163 W	20	89
4 21	13 13.18	−24 28.7	2.238	3.216	5.0	22.0	164 E	21	88
5 1	13 4.32	−23 24.7	2.241	3.194	7.0	22.1	157 E	22	87
5 11	12 56.87	−22 15.0	2.270	3.172	9.7	22.2	148 E	23	86
		430305 2013 WX_{106}							
3 22	13 40.14	− 0 56.3	2.646	3.581	6.4	22.4	156 W	44	65
4 1	13 32.89	+ 0 1.1	2.591	3.571	3.7	22.2	167 W	45	64
4 11	13 24.87	+ 0 57.1	2.567	3.560	2.6	22.1	171 W	46	63
4 21	13 16.71	+ 1 47.3	2.574	3.548	4.7	22.2	163 E	47	62
5 1	13 9.09	+ 2 27.7	2.609	3.535	7.5	22.4	153 E	47	62
		162000 1990 OS							
3 22	13 43.39	−11 41.0	1.494	2.426	10.6	22.9	153 W	33	76
4 1	13 31.63	−10 39.4	1.431	2.413	5.6	22.5	166 W	34	75
4 11	13 18.17	− 9 24.7	1.397	2.399	0.5	22.1	179 E	36	73
4 21	13 4.45	− 8 4.6	1.392	2.381	5.5	22.4	167 E	37	72
5 1	12 51.95	− 6 48.5	1.416	2.362	10.9	22.7	154 E	38	71
		477587 2010 JT_{86}							
3 22	13 45.33	− 7 27.9	3.523	4.442	5.6	21.7	154 W	38	71
4 1	13 38.24	− 7 12.3	3.445	4.421	3.2	21.5	166 W	38	71
4 11	13 30.43	− 6 54.4	3.398	4.399	0.7	21.3	177 W	38	71
4 21	13 22.38	− 6 36.4	3.383	4.377	2.2	21.4	170 E	38	71
5 1	13 14.61	− 6 20.6	3.399	4.354	4.8	21.6	159 E	39	70
5 11	13 7.63	− 6 9.3	3.445	4.330	7.2	21.7	147 E	39	70
		497614 2006 QQ_{7}							
3 22	13 45.98	−15 24.9	1.988	2.901	9.5	22.1	151 W	30	79
4 1	13 37.51	−15 1.8	1.906	2.875	5.9	21.9	163 W	30	79
4 11	13 27.60	−14 26.4	1.851	2.849	2.3	21.6	173 W	31	78
4 21	13 17.17	−13 42.1	1.825	2.821	3.4	21.6	170 E	31	78
5 1	13 7.26	−12 54.1	1.829	2.793	7.4	21.8	159 E	32	77
5 11	12 58.85	−12 8.6	1.859	2.763	11.4	22.0	147 E	33	76
		178601 2000 CG_{59}							
3 22	13 46.38	−10 0.0	2.126	3.049	8.5	22.2	153 W	35	74
4 1	13 37.12	− 9 15.8	2.109	3.087	4.6	22.1	166 W	36	73
4 11	13 27.16	− 8 27.0	2.122	3.124	0.7	21.8	178 W	37	72
4 21	13 17.37	− 7 38.5	2.165	3.159	3.3	22.1	170 E	37	72
5 1	13 8.60	− 6 54.9	2.238	3.193	6.9	22.4	158 E	38	71

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		433965 1999 SD_{10}							
h m		° ′			°	m	°	°	°
3 22	13 46.44	− 2 3.4	2.081	3.013	8.1	21.8	155 W	43	66
4 1	13 38.99	− 1 7.6	1.980	2.958	4.9	21.5	165 W	44	65
4 11	13 30.03	− 0 9.8	1.908	2.902	3.0	21.2	171 W	45	64
4 21	13 20.34	+ 0 44.3	1.864	2.846	5.4	21.3	165 E	46	63
5 1	13 10.86	+ 1 28.8	1.849	2.788	9.2	21.4	154 E	46	63
5 11	13 2.52	+ 1 58.6	1.859	2.730	13.0	21.5	142 E	47	62
		274834 2009 QR_{9}							
3 22	13 48.41	− 3 42.8	2.653	3.576	7.0	21.8	154 W	41	68
4 1	13 41.41	− 2 43.4	2.594	3.569	4.1	21.6	165 W	42	67
4 11	13 33.52	− 1 43.1	2.565	3.561	2.1	21.4	172 W	43	66
4 21	13 25.39	− 0 46.5	2.566	3.551	3.8	21.6	167 E	44	65
5 1	13 17.70	+ 0 2.2	2.597	3.541	6.7	21.7	156 E	45	64
5 11	13 11.03	+ 0 39.7	2.656	3.530	9.5	21.9	145 E	46	63
		461371 2000 SN_{171}							
3 22	13 49.49	−13 37.8	1.805	2.721	10.2	21.6	151 W	31	78
4 1	13 40.40	−13 24.0	1.720	2.692	6.2	21.3	163 W	32	77
4 11	13 29.56	−12 59.2	1.662	2.661	2.0	21.0	175 W	32	77
4 21	13 17.99	−12 26.3	1.633	2.630	3.5	21.0	171 E	33	76
5 1	13 6.90	−11 50.6	1.633	2.597	8.1	21.2	159 E	33	76
5 11	12 57.42	−11 18.1	1.659	2.564	12.5	21.4	147 E	34	75
		334736 2003 OJ_{20}							
3 22	13 49.61	−30 55.4	2.851	3.678	9.8	21.9	141 W	14	85
4 1	13 41.37	−31 3.4	2.758	3.658	7.8	21.8	150 W	14	85
4 11	13 31.92	−30 53.7	2.691	3.636	6.1	21.6	157 W	14	85
4 21	13 21.99	−30 26.5	2.653	3.613	5.5	21.6	160 E	15	86
5 1	13 12.41	−29 44.4	2.645	3.590	6.5	21.6	156 E	15	86
5 11	13 3.96	−28 52.1	2.664	3.566	8.5	21.7	149 E	16	87
		255591 2006 OB_{6}							
3 22	13 49.71	−15 43.5	2.052	2.959	9.6	21.5	150 W	29	80
4 1	13 41.70	−15 12.4	1.973	2.939	6.1	21.3	162 W	30	79
4 11	13 32.30	−14 28.9	1.921	2.918	2.4	21.0	173 W	31	78
4 21	13 22.38	−13 36.7	1.898	2.896	2.9	21.0	172 E	31	78
5 1	13 12.94	−12 41.1	1.904	2.873	6.8	21.2	160 E	32	77
5 11	13 4.89	−11 48.4	1.937	2.849	10.6	21.4	149 E	33	76
		244739 2003 SY_{27}							
3 22	13 51.34	−12 7.9	1.904	2.820	9.7	21.6	151 W	33	76
4 1	13 43.72	−11 12.5	1.825	2.797	5.9	21.3	163 W	34	75
4 11	13 34.63	−10 6.1	1.773	2.773	1.6	21.0	176 W	35	74
4 21	13 24.95	− 8 54.2	1.750	2.749	3.0	21.0	172 E	36	73
5 1	13 15.72	− 7 43.6	1.756	2.723	7.4	21.2	160 E	37	72
5 11	13 7.89	− 6 41.0	1.788	2.697	11.5	21.4	148 E	38	71
		405072 2001 UT_{8}							
3 22	13 53.89	−12 2.7	1.548	2.466	11.4	21.6	151 W	33	76
4 1	13 45.24	−11 45.9	1.469	2.441	7.0	21.3	163 W	33	76
4 11	13 34.58	−11 18.5	1.416	2.415	2.0	20.9	175 W	34	75
4 21	13 23.04	−10 44.4	1.390	2.389	3.4	20.9	172 E	34	75
5 1	13 11.98	−10 9.5	1.392	2.362	8.6	21.2	160 E	35	74
5 11	13 2.66	− 9 40.4	1.418	2.334	13.4	21.4	148 E	35	74
		399441 2002 AR_{208}							
3 22	13 55.29	−23 9.7	1.771	2.651	12.4	21.3	145 W	22	87
4 1	13 47.29	−22 50.4	1.688	2.631	8.9	21.0	156 W	22	87
4 11	13 37.48	−22 9.8	1.629	2.611	5.5	20.8	165 W	23	86
4 21	13 26.89	−21 10.3	1.598	2.590	4.5	20.7	168 E	24	85
5 1	13 16.74	−19 57.6	1.594	2.568	7.3	20.8	161 E	25	84
5 11	13 8.18	−18 40.1	1.617	2.546	11.2	21.0	151 E	26	83
5 21	13 2.00	−17 26.3	1.663	2.522	15.0	21.1	140 E	28	81
5 31	12 58.65	−16 23.3	1.727	2.498	18.3	21.3	129 E	29	80
6 10	12 58.24	−15 35.6	1.806	2.473	20.9	21.5	120 E	29*	80
		376837 2001 QA_{114}							
3 22	13 57.74	+27 16.2	2.427	3.265	11.0	21.8	141 W	72	37
3 27	13 53.87	+28 3.1	2.431	3.279	10.7	21.8	143 W	73	36
4 1	13 49.67	+28 44.5	2.440	3.293	10.5	21.8	143 W	74	35
4 6	13 45.24	+29 19.7	2.456	3.308	10.6	21.8	143 W	74	35
4 11	13 40.69	+29 48.0	2.478	3.321	10.8	21.9	142 W	75	34
4 16	13 36.12	+30 9.2	2.506	3.335	11.2	21.9	140 E	75	34
4 21	13 31.63	+30 23.0	2.539	3.348	11.7	22.0	137 E	75	34
4 26	13 27.32	+30 29.6	2.578	3.362	12.3	22.0	135 E	75	34
5 1	13 23.30	+30 29.0	2.622	3.375	12.9	22.1	131 E	75	34
5 6	13 19.63	+30 21.8	2.671	3.387	13.6	22.2	128 E	75	34
5 11	13 16.37	+30 8.3	2.724	3.400	14.2	22.2	124 E	75	34

138524 2000 OJ_8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	13 57.96	−15 34.6	2.424	3.315	9.0	21.9	149 W	29	80
4 1	13 49.37	−14 43.2	2.387	3.346	5.7	21.8	161 W	30	79
4 11	13 39.88	−13 42.7	2.379	3.375	2.2	21.6	173 W	31	78
4 21	13 30.27	−12 37.4	2.403	3.403	1.8	21.6	174 E	32	77
5 1	13 21.34	−11 32.4	2.457	3.430	5.2	21.9	162 E	33	76
5 11	13 13.74	−10 32.9	2.541	3.456	8.3	22.1	150 E	34	75

279768 1999 RH_{104}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	13 58.73	−14 31.4	1.260	2.175	13.7	22.1	149 W	30	79
4 1	13 51.55	−13 41.0	1.166	2.134	9.0	21.7	161 W	31	78
4 11	13 41.68	−12 29.4	1.094	2.092	3.4	21.2	173 W	33	76
4 21	13 30.22	−11 2.0	1.048	2.050	3.1	21.1	174 E	34	75
5 1	13 18.75	− 9 28.3	1.027	2.006	9.5	21.3	161 E	36	73
5 11	13 8.97	− 8 0.9	1.029	1.962	15.6	21.5	148 E	37	72

497887 2006 UM_{266}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	14 1.35	− 6 46.7	1.828	2.739	10.3	22.0	151 W	38	71
4 1	13 53.47	− 6 16.4	1.743	2.711	6.5	21.7	162 W	39	70
4 11	13 43.78	− 5 41.7	1.685	2.683	2.5	21.3	173 W	39	70
4 21	13 33.17	− 5 7.0	1.655	2.653	3.3	21.3	171 E	40	69
5 1	13 22.75	− 4 37.7	1.654	2.623	7.7	21.5	160 E	40	69
5 11	13 13.60	− 4 18.9	1.679	2.591	11.9	21.7	148 E	41	68

422679 1999 VU_{225}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	14 2.49	− 0 40.1	2.117	3.026	9.2	21.6	151 W	44	65
4 1	13 55.02	+ 0 18.4	2.042	3.005	6.2	21.4	161 W	45	64
4 11	13 46.09	+ 1 16.3	1.995	2.983	3.9	21.2	168 W	46	63
4 21	13 36.47	+ 2 7.8	1.977	2.960	5.0	21.3	165 E	47	62
5 1	13 27.07	+ 2 47.5	1.988	2.936	8.1	21.4	156 E	48	61
5 11	13 18.76	+ 3 11.6	2.026	2.911	11.5	21.6	145 E	48	61

162063 1997 EH_{29}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	14 3.52	− 3 7.7	1.090	2.018	14.1	21.4	150 W	42	67
3 27	13 55.78	− 1 42.0	1.057	2.013	11.2	21.2	157 W	43	66
4 1	13 47.05	− 0 11.6	1.030	2.008	8.3	21.1	163 W	45	64
4 6	13 37.52	+ 1 21.0	1.012	2.001	6.0	20.9	168 W	46	63
4 11	13 27.47	+ 2 53.3	1.001	1.993	5.7	20.9	169 W	48	61
4 16	13 17.20	+ 4 22.2	0.999	1.984	7.7	20.9	165 E	49	60
4 21	13 7.04	+ 5 44.9	1.004	1.974	10.7	21.1	159 E	51	58
4 26	12 57.30	+ 6 59.0	1.016	1.962	14.0	21.2	152 E	52	57
5 1	12 48.28	+ 8 3.0	1.035	1.949	17.2	21.3	145 E	53	56
5 6	12 40.19	+ 8 55.9	1.061	1.935	20.2	21.5	138 E	54	55
5 11	12 33.17	+ 9 37.6	1.090	1.920	23.0	21.6	132 E	55	54

474278 2001 UT_{17}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	14 4.22	+23 1.1	1.361	2.237	15.7	22.0	143 W	68	41
3 27	13 56.78	+23 14.3	1.347	2.243	14.5	21.9	146 W	68	41
4 1	13 48.71	+23 19.3	1.340	2.249	13.7	21.9	148 W	68	41
4 6	13 40.23	+23 14.7	1.339	2.255	13.3	21.9	149 W	68	41
4 11	13 31.59	+23 0.1	1.344	2.260	13.4	21.9	149 W	68	41
4 16	13 23.03	+22 35.1	1.356	2.265	13.9	21.9	147 E	68	41
4 21	13 14.79	+22 0.0	1.374	2.270	14.8	22.0	145 E	67	42
4 26	13 7.08	+21 15.5	1.399	2.274	16.0	22.1	141 E	66	43
5 1	13 0.07	+20 22.6	1.429	2.278	17.3	22.2	138 E	65	44
5 6	12 53.88	+19 22.5	1.465	2.282	18.6	22.3	134 E	64	45
5 11	12 48.59	+18 16.6	1.506	2.285	19.9	22.4	129 E	63	46

392704 2012 AE_1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	14 6.94	−13 55.1	1.302	2.206	14.2	22.1	147 W	31	78
4 1	13 53.74	−13 31.8	1.229	2.196	8.9	21.8	160 W	31	78
4 11	13 37.67	−12 51.6	1.184	2.182	3.0	21.4	173 W	32	77
4 21	13 20.40	−11 59.0	1.167	2.166	4.0	21.4	171 E	33	76
5 1	13 3.97	−11 2.4	1.180	2.147	10.2	21.7	158 E	34	75
5 11	12 50.18	−10 11.8	1.219	2.125	15.9	21.9	145 E	35	74

405421 2004 RB_{321}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	14 7.14	−18 32.4	1.703	2.585	12.7	21.7	145 W	26	83
4 1	14 0.11	−17 53.3	1.615	2.564	8.9	21.4	157 W	27	82
4 11	13 51.05	−16 55.9	1.552	2.542	4.6	21.1	168 W	28	81
4 21	13 40.90	−15 43.9	1.517	2.519	2.1	20.9	175 E	29	80
5 1	13 30.85	−14 23.7	1.509	2.495	6.1	21.1	165 E	31	78
5 11	13 22.09	−13 4.1	1.528	2.471	10.7	21.3	153 E	32	77
5 21	13 15.52	−11 53.1	1.570	2.446	14.9	21.5	142 E	33	76

518771 2009 WL_1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	14 7.22	+31 11.3	1.465	2.297	17.2	22.0	137 W	76	33
3 27	14 0.07	+31 41.7	1.459	2.306	16.6	22.0	139 W	77	32
4 1	13 52.31	+32 2.3	1.459	2.314	16.2	22.0	140 W	77	32
4 6	13 44.16	+32 11.8	1.464	2.321	16.1	22.0	140 W	77	32
4 11	13 35.86	+32 9.5	1.475	2.328	16.3	22.1	139 W	77	32
4 16	13 27.64	+31 55.1	1.491	2.335	16.7	22.1	138 E	77	32

518771 2009 WL_1 *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 21	13 19.74	+31 29.0	1.514	2.342	17.4	22.2	136 E	76	33
4 26	13 12.35	+30 51.8	1.541	2.347	18.2	22.2	133 E	76	33
5 1	13 5.65	+30 4.6	1.574	2.353	19.1	22.3	130 E	75	34
5 6	12 59.75	+29 8.7	1.611	2.358	20.0	22.4	127 E	74	35
5 11	12 54.71	+28 5.4	1.652	2.362	20.9	22.5	123 E	73	36

154715 2004 LB_6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	14 9.28	−10 51.8	1.490	2.392	12.9	21.9	148 W	34	75
4 1	13 58.68	− 9 34.9	1.416	2.381	8.1	21.6	160 W	35	74
4 11	13 45.74	− 8 4.2	1.369	2.367	2.8	21.2	173 W	37	72
4 21	13 31.73	− 6 27.9	1.351	2.350	3.4	21.2	172 E	39	70
5 1	13 18.22	− 4 56.1	1.363	2.331	9.0	21.5	159 E	40	69
5 11	13 6.62	− 3 38.7	1.401	2.310	14.1	21.8	146 E	41	68

455189 2000 QM_7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	14 9.31	+ 4 47.4	2.113	3.009	9.9	21.7	149 W	50	59
3 27	14 5.95	+ 5 44.5	2.094	3.019	8.6	21.6	153 W	51	58
4 1	14 2.19	+ 6 40.8	2.082	3.028	7.4	21.5	157 W	52	57
4 6	13 58.11	+ 7 35.2	2.077	3.036	6.5	21.5	160 W	53	56
4 11	13 53.81	+ 8 26.7	2.079	3.045	6.1	21.5	161 W	53	56
4 16	13 49.41	+ 9 14.4	2.089	3.053	6.3	21.5	160 W	54	55
4 21	13 44.99	+ 9 57.5	2.106	3.061	7.1	21.6	158 E	55	54
4 26	13 40.67	+10 35.3	2.130	3.069	8.1	21.6	154 E	56	53
5 1	13 36.56	+11 7.3	2.161	3.076	9.4	21.7	150 E	56	53
5 6	13 32.75	+11 33.4	2.198	3.083	10.6	21.8	146 E	57	52
5 11	13 29.30	+11 53.5	2.240	3.090	11.9	21.9	141 E	57	52
5 16	13 26.27	+12 7.6	2.289	3.097	13.1	22.0	136 E	57	52

331509 1999 YA

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	14 10.58	+53 16.2	1.559	2.233	22.7	22.0	120 W	82	11
3 27	14 3.27	+54 14.6	1.568	2.236	22.8	22.0	120 W	81	10
4 1	13 55.04	+54 58.9	1.581	2.239	23.1	22.0	119 W	80	9
4 6	13 46.18	+55 28.3	1.597	2.241	23.4	22.1	117 W	80	9
4 11	13 37.02	+55 42.2	1.616	2.243	23.7	22.1	116 W	79	8
4 16	13 27.91	+55 40.7	1.638	2.244	24.1	22.2	114 E	79	8
4 21	13 19.18	+55 24.2	1.662	2.245	24.5	22.2	112 E	80	9
4 26	13 11.11	+54 53.7	1.688	2.245	24.9	22.2	110 E	80	9
5 1	13 3.94	+54 10.4	1.717	2.245	25.2	22.3	108 E	81	10
5 6	12 57.83	+53 15.8	1.747	2.245	25.6	22.3	106 E	82	11
5 11	12 52.83	+52 11.4	1.779	2.244	25.9	22.4	104 E	83	12

496114 2009 WF_{185}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	14 11.05	−46 2.2	2.910	3.598	12.8	22.2	127 W	—	70
3 27	14 7.21	−46 8.3	2.862	3.596	12.1	22.1	131 W	—	70
4 1	14 2.87	−46 8.5	2.819	3.594	11.4	22.0	135 W	—	70
4 6	13 58.11	−46 2.4	2.781	3.592	10.6	22.0	138 W	—	70
4 11	13 53.05	−45 49.9	2.748	3.589	10.0	21.9	142 W	—	70
4 16	13 47.79	−45 30.8	2.722	3.587	9.3	21.9	145 W	—	70
4 21	13 42.48	−45 5.1	2.702	3.584	8.9	21.8	147 E	—	71
4 26	13 37.23	−44 33.2	2.688	3.581	8.6	21.8	148 E	—	71
5 1	13 32.18	−43 55.4	2.681	3.578	8.5	21.8	148 E	1	72
5 6	13 27.45	−43 12.7	2.680	3.574	8.7	21.8	148 E	2	73
5 11	13 23.13	−42 25.6	2.687	3.571	9.0	21.8	146 E	3	74
5 16	13 19.30	−41 35.3	2.699	3.567	9.6	21.8	144 E	3	74

338049 2002 NY_{31}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	14 12.94	+46 25.1	2.211	2.903	16.3	22.1	125 W	89	18
3 27	14 7.19	+47 17.8	2.231	2.922	16.2	22.1	125 W	88	17
4 1	14 0.91	+48 0.7	2.256	2.941	16.2	22.2	125 W	87	16
4 6	13 54.27	+48 33.2	2.285	2.960	16.3	22.2	124 W	86	15
4 11	13 47.46	+48 55.0	2.318	2.978	16.5	22.3	122 W	86	15
4 16	13 40.64	+49 6.1	2.356	2.996	16.7	22.3	121 W	86	15
4 21	13 34.00	+49 6.6	2.397	3.014	17.0	22.4	119 E	86	15
4 26	13 27.71	+48 57.1	2.443	3.031	17.3	22.5	117 E	86	15
5 1	13 21.90	+48 38.4	2.491	3.048	17.5	22.5	114 E	86	15
5 6	13 16.70	+48 11.2	2.542	3.064	17.8	22.6	112 E	87	16

360563 2003 UM_{12}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	14 13.66	−13 43.1	1.296	2.193	14.8	21.8	146 W	31	78
4 1	14 7.71	−13 20.3	1.188	2.144	10.4	21.4	157 W	32	77
4 11	13 58.68	−12 41.3	1.101	2.094	5.1	20.9	169 W	32	77
4 21	13 47.39	−11 48.7	1.039	2.044	1.0	20.5	178 E	33	76
4 26	13 41.33	−11 19.2	1.017	2.018	4.2	20.6	172 E	34	75
5 1	13 35.28	−10 49.0	1.002	1.993	7.4	20.7	165 E	34	75
5 6	13 29.46	−10 19.5	0.992	1.967	10.7	20.8	159 E	35	74
5 11	13 24.09	− 9 51.8	0.988	1.941	13.9	20.9	153 E	35	74
5 16	13 19.34	− 9 27.1	0.989	1.916	16.9	21.0	147 E	36	73
5 21	13 15.37	− 9 6.4	0.995	1.890	19.8	21.1	141 E	36	73
5 26	13 12.30	− 8 50.6	1.004	1.864	22.6	21.1	135 E	36	73
5 31	13 10.22	− 8 40.3	1.017	1.839	25.1	21.2	130 E	36	73

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
360563 2003 UM_{12}									*(continuation)*
	h m	° ′			°	m	°	°	°
6 5	13 9.17	− 8 35.9	1.032	1.813	27.4	21.3	125 E	36*	73
6 10	13 9.14	− 8 37.5	1.050	1.788	29.5	21.4	120 E	36*	73
6 15	13 10.13	− 8 45.0	1.069	1.762	31.4	21.4	115 E	35*	73
6 20	13 12.12	− 8 58.2	1.089	1.737	33.1	21.5	111 E	34*	73
456024 2005 YN_{93}									
3 22	14 13.77	− 4 30.8	1.899	2.793	11.0	21.8	148 W	40	69
4 1	14 5.99	− 3 43.8	1.838	2.794	7.3	21.6	159 W	41	68
4 11	13 56.54	− 2 55.1	1.804	2.795	3.9	21.4	169 W	42	67
4 21	13 46.32	− 2 10.1	1.799	2.795	3.6	21.3	170 E	43	66
5 1	13 36.35	− 1 34.1	1.823	2.793	6.9	21.5	160 E	43	66
5 11	13 27.60	− 1 11.3	1.874	2.791	10.6	21.8	149 E	44	65
495973 2007 TC_{13}									
3 22	14 15.79	−12 42.9	1.643	2.528	12.9	22.2	146 W	32	77
4 1	14 9.39	−11 58.0	1.549	2.500	8.9	21.9	157 W	33	76
4 11	14 0.71	−11 0.0	1.479	2.471	4.3	21.6	169 W	34	75
4 21	13 50.60	− 9 53.5	1.436	2.441	1.0	21.3	178 E	35	74
5 1	13 40.25	− 8 45.3	1.421	2.410	6.0	21.5	166 E	36	73
5 11	13 30.91	− 7 43.4	1.432	2.378	11.0	21.7	153 E	37	72
378810 2008 SG_{209}									
3 22	14 16.70	− 9 59.8	1.171	2.074	15.5	21.5	146 W	35	74
4 1	14 11.83	− 8 59.1	1.085	2.044	10.9	21.1	157 W	36	73
4 11	14 4.05	− 7 43.3	1.021	2.013	5.6	20.7	169 W	37	72
4 21	13 54.29	− 6 19.8	0.980	1.982	2.8	20.4	174 E	39	70
4 26	13 49.11	− 5 38.4	0.968	1.967	5.1	20.5	170 E	39	70
5 1	13 44.03	− 4 59.2	0.963	1.952	8.1	20.6	164 E	40	69
5 6	13 39.24	− 4 23.7	0.963	1.937	11.1	20.7	158 E	41	68
5 11	13 34.94	− 3 53.0	0.969	1.921	14.1	20.9	152 E	41	68
5 16	13 31.28	− 3 28.1	0.979	1.906	16.9	21.0	147 E	42	67
5 21	13 28.37	− 3 9.6	0.994	1.891	19.6	21.1	141 E	42	67
5 26	13 26.33	− 2 58.0	1.012	1.877	22.1	21.2	136 E	42	67
5 31	13 25.21	− 2 53.4	1.034	1.862	24.3	21.3	131 E	42	67
6 5	13 25.02	− 2 55.8	1.058	1.847	26.4	21.4	126 E	42	67
6 10	13 25.76	− 3 4.7	1.085	1.833	28.2	21.4	122 E	42*	67
313552 2003 BX_{33}									
3 22	14 16.92	+ 1 9.6	0.736	1.664	19.0	22.3	147 W	46	63
3 27	14 10.54	+ 2 44.1	0.705	1.657	16.0	22.1	153 W	48	61
4 1	14 2.73	+ 4 23.8	0.679	1.649	13.1	21.9	158 W	49	60
4 6	13 53.66	+ 6 5.5	0.659	1.640	11.0	21.8	162 W	51	58
4 11	13 43.58	+ 7 45.5	0.645	1.630	10.5	21.7	163 W	53	56
4 16	13 32.85	+ 9 19.6	0.637	1.618	11.9	21.7	161 E	54	55
4 21	13 21.87	+10 43.9	0.635	1.606	14.8	21.8	156 E	56	53
4 26	13 11.12	+11 55.3	0.639	1.592	18.4	21.9	150 E	57	52
5 1	13 1.03	+12 51.6	0.647	1.577	22.1	22.0	144 E	58	51
5 6	12 51.94	+13 32.0	0.660	1.561	25.8	22.1	138 E	59	50
5 11	12 44.10	+13 57.1	0.677	1.544	29.3	22.3	132 E	59	50
495959 2007 ML_{6}									
3 22	14 18.23	+ 5 1.2	1.638	2.529	12.6	22.4	146 W	50	59
3 27	14 15.01	+ 5 46.3	1.586	2.506	11.1	22.3	151 W	51	58
4 1	14 11.09	+ 6 32.2	1.540	2.483	9.7	22.1	155 W	52	57
4 6	14 6.54	+ 7 17.6	1.501	2.459	8.6	22.0	159 W	52	57
4 11	14 1.44	+ 8 1.3	1.468	2.435	7.9	21.9	161 W	53	56
4 16	13 55.91	+ 8 42.0	1.441	2.411	7.9	21.9	161 W	54	55
4 21	13 50.08	+ 9 18.5	1.422	2.387	8.8	21.8	159 E	54	55
4 26	13 44.13	+ 9 49.4	1.409	2.362	10.2	21.9	155 E	55	54
5 1	13 38.23	+10 13.9	1.402	2.336	12.0	21.9	151 E	55	54
5 6	13 32.54	+10 31.1	1.402	2.311	14.0	21.9	146 E	56	53
5 11	13 27.23	+10 40.7	1.406	2.285	16.0	22.0	141 E	56	53
5 16	13 22.42	+10 42.5	1.416	2.258	18.0	22.1	136 E	56	53
399891 2005 WX_{55}									
3 22	14 18.66	+19 15.9	2.170	3.017	11.8	22.1	142 W	64	45
3 27	14 14.55	+19 52.4	2.145	3.015	11.0	22.0	145 W	65	44
4 1	14 9.96	+20 25.3	2.126	3.014	10.4	22.0	147 W	65	44
4 6	14 4.95	+20 53.5	2.114	3.012	10.0	22.0	148 W	66	43
4 11	13 59.65	+21 16.2	2.108	3.010	9.9	22.0	149 W	66	43
4 16	13 54.17	+21 32.7	2.109	3.008	10.2	22.0	148 W	67	42
4 21	13 48.62	+21 42.5	2.116	3.005	10.7	22.0	146 E	67	42
4 26	13 43.15	+21 45.2	2.130	3.002	11.4	22.0	144 E	67	42
5 1	13 37.87	+21 40.7	2.150	2.999	12.3	22.1	141 E	67	42
5 6	13 32.90	+21 29.3	2.175	2.995	13.2	22.1	137 E	66	43
5 11	13 28.32	+21 11.1	2.206	2.991	14.2	22.2	133 E	66	43
5 16	13 24.22	+20 46.8	2.242	2.987	15.2	22.3	129 E	66	43
407740 2011 UX_{401}									
	h m	° ′			°	m	°	°	°
3 22	14 20.03	−16 11.7	1.162	2.050	16.8	21.4	143 W	29	80
4 1	14 15.36	−16 1.4	1.067	2.015	12.4	21.0	154 W	29	80
4 11	14 7.46	−15 32.8	0.992	1.979	7.0	20.6	166 W	29	80
4 21	13 57.19	−14 47.6	0.940	1.944	1.5	20.1	177 W	30	79
4 26	13 51.60	−14 20.4	0.922	1.926	2.9	20.1	174 E	31	78
5 1	13 46.03	−13 51.5	0.911	1.909	6.1	20.3	168 E	31	78
5 6	13 40.71	−13 22.2	0.905	1.891	9.3	20.4	162 E	32	77
5 11	13 35.85	−12 54.0	0.905	1.874	12.5	20.5	156 E	32	77
5 16	13 31.63	−12 27.9	0.909	1.857	15.6	20.6	150 E	33	76
5 21	13 28.22	−12 5.3	0.918	1.840	18.6	20.7	145 E	33	76
5 26	13 25.73	−11 47.0	0.932	1.823	21.3	20.8	139 E	33	76
5 31	13 24.24	−11 33.8	0.948	1.806	23.8	20.9	134 E	33	76
6 5	13 23.78	−11 26.2	0.968	1.790	26.1	21.0	129 E	34	75
6 10	13 24.35	−11 24.3	0.990	1.774	28.2	21.1	124 E	34*	75
6 15	13 25.93	−11 27.9	1.014	1.758	30.0	21.2	120 E	33*	75
6 20	13 28.49	−11 37.2	1.039	1.742	31.7	21.2	116 E	32*	76
6 25	13 31.99	−11 51.7	1.066	1.727	33.1	21.3	112 E	31*	76
6 30	13 36.40	−12 11.2	1.094	1.712	34.3	21.4	108 E	30*	76
7 5	13 41.64	−12 35.2	1.122	1.698	35.4	21.5	105 E	28*	77
415870 2001 SA_{276}									
3 22	14 20.15	−50 37.9	2.640	3.285	14.8	22.2	122 W	—	65
3 27	14 15.36	−51 9.1	2.607	3.295	14.2	22.2	126 W	—	65
4 1	14 9.87	−51 33.9	2.578	3.305	13.5	22.1	130 W	—	64
4 6	14 3.80	−51 51.5	2.554	3.316	12.8	22.1	133 W	—	64
4 11	13 57.27	−52 1.6	2.535	3.325	12.2	22.1	136 W	—	64
4 16	13 50.46	−52 3.8	2.521	3.335	11.6	22.0	138 W	—	64
4 21	13 43.52	−51 57.9	2.513	3.345	11.2	22.0	140 E	—	64
4 26	13 36.67	−51 44.3	2.511	3.354	10.9	22.0	141 E	—	64
5 1	13 30.07	−51 23.2	2.515	3.363	10.7	22.0	142 E	—	65
5 6	13 23.91	−50 55.6	2.525	3.372	10.8	22.0	141 E	—	65
5 11	13 18.29	−50 22.2	2.541	3.380	11.0	22.1	140 E	—	66
5 16	13 13.33	−49 44.3	2.562	3.389	11.3	22.1	139 E	—	66
469219 2016 HO_{3}									
3 22	14 20.23	+44 27.8	0.167	1.103	47.0	22.4	126 W	89	20
3 27	14 2.98	+45 25.9	0.163	1.104	46.1	22.3	127 W	90	19
4 1	13 42.86	+45 45.9	0.160	1.105	45.5	22.3	128 W	89	18
4 6	13 21.12	+45 20.3	0.157	1.105	45.5	22.2	128 W	90	19
4 11	12 59.23	+44 6.2	0.156	1.104	46.1	22.2	127 E	89	20
4 16	12 38.59	+42 4.9	0.156	1.103	47.3	22.3	126 E	87	22
4 21	12 20.34	+39 21.6	0.157	1.101	49.0	22.3	124 E	84	25
4 26	12 5.16	+36 4.7	0.159	1.099	51.2	22.4	122 E	81	28
412512 2014 LY_{26}									
3 22	14 21.25	− 7 36.7	1.767	2.649	12.3	21.5	146 W	37	72
4 1	14 14.54	− 6 53.3	1.681	2.630	8.6	21.2	157 W	38	71
4 11	14 5.70	− 6 3.8	1.621	2.610	4.5	20.9	168 W	39	70
4 21	13 55.55	− 5 13.1	1.588	2.589	2.6	20.7	173 E	40	69
5 1	13 45.18	− 4 27.5	1.583	2.567	6.2	20.9	164 E	41	68
5 11	13 35.75	− 3 52.8	1.605	2.544	10.5	21.1	153 E	41	68
5 21	13 28.18	− 3 33.2	1.651	2.521	14.5	21.3	141 E	41	68
5 31	13 23.08	− 3 30.7	1.715	2.497	18.0	21.5	131 E	41	68
380187 2000 WH_{2}									
3 22	14 23.19	−51 6.5	2.924	3.551	13.8	22.4	122 W	—	65
3 27	14 18.99	−51 36.2	2.873	3.546	13.3	22.3	125 W	—	64
4 1	14 14.10	−52 0.4	2.827	3.540	12.7	22.3	129 W	—	64
4 6	14 8.59	−52 18.5	2.785	3.534	12.1	22.2	132 W	—	64
4 11	14 2.59	−52 29.9	2.749	3.528	11.6	22.1	135 W	—	64
4 16	13 56.21	−52 34.2	2.718	3.522	11.1	22.1	137 W	—	63
4 21	13 49.60	−52 31.0	2.692	3.516	10.7	22.1	139 E	—	63
4 26	13 42.95	−52 20.4	2.672	3.509	10.5	22.0	141 E	—	64
5 1	13 36.41	−52 2.5	2.658	3.502	10.4	22.0	141 E	—	64
5 6	13 30.17	−51 37.9	2.651	3.495	10.4	22.0	141 E	—	64
5 11	13 24.36	−51 7.2	2.649	3.488	10.6	22.0	140 E	—	65
5 16	13 19.11	−50 31.3	2.653	3.480	11.0	22.0	139 E	—	65
163679 2002 XG_{84}									
3 22	14 26.33	−13 23.6	1.318	2.196	15.9	22.3	143 W	32	77
4 1	14 14.93	−12 44.1	1.241	2.191	10.8	22.0	156 W	32	77
4 11	14 0.33	−11 48.3	1.190	2.182	4.9	21.6	169 W	33	76
4 21	13 43.94	−10 41.1	1.166	2.171	1.4	21.3	177 E	34	75
5 1	13 27.69	− 9 31.2	1.172	2.156	7.9	21.7	163 E	35	74
5 11	13 13.46	− 8 29.0	1.205	2.139	13.8	21.9	150 E	37	72
467984 2012 RM_{42}									
3 22	14 27.00	− 3 23.7	1.959	2.831	11.8	21.4	145 W	42	67
4 1	14 21.23	− 2 29.9	1.850	2.789	8.6	21.2	155 W	43	66
4 11	14 13.32	− 1 32.3	1.766	2.746	5.5	20.9	165 W	43	66
4 21	14 3.88	− 0 36.4	1.709	2.702	4.2	20.7	169 W	44	65

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
467984 2012 RM_{42} *(continuation)*									
	h m	° ′			°	m	°	°	°
5 1	13 53.82	+ 0 11.3	1.681	2.657	6.8	20.8	162 E	45	64
5 11	13 44.23	+ 0 45.0	1.679	2.611	10.7	20.9	151 E	46	63
5 21	13 36.04	+ 1 0.8	1.701	2.565	14.5	21.0	141 E	46	63
5 31	13 30.03	+ 0 56.8	1.743	2.518	18.0	21.1	130 E	46	63
6 10	13 26.61	+ 0 33.2	1.800	2.470	20.8	21.3	120 E	45*	63
6 20	13 25.93	− 0 8.1	1.867	2.422	23.1	21.4	111 E	43*	64
6 30	13 27.95	− 1 5.2	1.940	2.373	24.8	21.5	102 E	40*	65
203269 2001 QP_{280}									
3 22	14 27.24	− 5 33.0	1.866	2.738	12.3	21.4	144 W	39	70
4 1	14 20.61	− 4 42.1	1.787	2.728	8.8	21.1	155 W	40	69
4 11	14 11.97	− 3 47.3	1.734	2.717	5.1	20.9	166 W	41	68
4 21	14 2.08	− 2 54.1	1.709	2.706	3.4	20.8	171 W	42	67
5 1	13 51.97	− 2 8.5	1.712	2.693	6.1	20.9	164 E	43	66
5 11	13 42.70	− 1 35.8	1.742	2.679	10.0	21.1	153 E	43	66
5 21	13 35.13	− 1 19.2	1.796	2.665	13.6	21.3	142 E	44	65
5 31	13 29.85	− 1 20.1	1.870	2.649	16.8	21.5	131 E	44	65
154331 2002 VF_{95}									
3 22	14 27.80	−12 13.1	1.635	2.503	13.9	21.3	143 W	33	76
4 1	14 21.83	−11 18.5	1.543	2.482	10.0	21.0	154 W	34	75
4 11	14 13.43	−10 10.9	1.475	2.460	5.5	20.6	166 W	35	74
4 21	14 3.42	− 8 55.3	1.433	2.437	1.4	20.3	177 W	36	73
4 26	13 58.15	− 8 16.7	1.422	2.425	2.7	20.4	173 E	37	72
5 1	13 52.92	− 7 39.0	1.419	2.413	5.1	20.5	168 E	37	72
5 6	13 47.91	− 7 3.2	1.422	2.400	7.6	20.6	162 E	38	71
5 11	13 43.24	− 6 30.3	1.432	2.388	10.1	20.7	156 E	38	71
5 16	13 39.04	− 6 1.0	1.447	2.375	12.4	20.8	150 E	39	70
5 21	13 35.41	− 5 36.1	1.468	2.362	14.7	20.9	144 E	39	70
5 26	13 32.45	− 5 15.9	1.494	2.349	16.7	21.0	138 E	40	69
5 31	13 30.20	− 5 0.9	1.525	2.335	18.6	21.1	133 E	40	69
6 5	13 28.69	− 4 51.1	1.559	2.322	20.2	21.2	128 E	40	69
6 10	13 27.93	− 4 46.4	1.596	2.308	21.7	21.3	123 E	40*	69
6 15	13 27.90	− 4 46.7	1.635	2.294	23.0	21.4	118 E	40*	69
6 20	13 28.61	− 4 51.8	1.677	2.280	24.2	21.4	113 E	39*	69
400525 2008 SU_{266}									
3 22	14 28.98	−13 7.3	1.154	2.037	17.4	21.2	142 W	32	77
4 1	14 24.40	−13 7.4	1.060	2.004	12.9	20.8	153 W	32	77
4 11	14 16.39	−12 55.3	0.985	1.971	7.5	20.4	165 W	32	77
4 21	14 5.72	−12 33.4	0.933	1.937	1.3	19.9	177 W	32	77
4 26	13 59.81	−12 20.1	0.916	1.921	2.0	19.9	176 E	33	76
5 1	13 53.84	−12 6.4	0.904	1.905	5.3	20.0	170 E	33	76
5 6	13 48.04	−11 53.3	0.899	1.888	8.6	20.1	164 E	33	76
5 11	13 42.64	−11 41.8	0.899	1.872	11.9	20.3	158 E	33	76
5 16	13 37.84	−11 32.9	0.903	1.856	15.1	20.4	152 E	33	76
5 21	13 33.82	−11 27.3	0.913	1.840	18.0	20.5	146 E	34	75
5 31	13 28.59	−11 28.9	0.944	1.809	23.4	20.7	135 E	34	75
6 10	13 27.50	−11 49.8	0.987	1.778	27.8	20.9	125 E	33*	76
6 20	13 30.53	−12 30.2	1.038	1.748	31.3	21.0	117 E	31*	77
6 30	13 37.44	−13 28.4	1.095	1.720	34.0	21.2	109 E	29*	77
7 10	13 47.83	−14 41.6	1.155	1.694	35.9	21.3	102 E	25*	79
7 20	14 1.32	−16 6.5	1.216	1.669	37.3	21.4	96 E	22*	80
463089 2011 SZ_{216}									
3 22	14 34.09	−40 40.7	1.595	2.341	19.7	22.1	128 W	4	75
3 27	14 28.97	−41 34.6	1.573	2.360	18.3	22.0	132 W	3	74
4 1	14 22.87	−42 20.7	1.556	2.379	17.0	21.9	136 W	3	74
4 6	14 15.93	−42 57.8	1.543	2.397	15.6	21.9	140 W	2	73
4 11	14 8.33	−43 25.2	1.537	2.415	14.4	21.9	143 W	2	73
4 16	14 0.30	−43 42.2	1.535	2.433	13.3	21.8	146 W	1	72
4 21	13 52.08	−43 48.6	1.540	2.451	12.5	21.8	148 E	1	72
4 26	13 43.96	−43 44.7	1.551	2.469	12.1	21.8	149 E	1	72
5 1	13 36.20	−43 31.4	1.567	2.486	12.0	21.9	149 E	1	72
5 6	13 29.04	−43 10.0	1.590	2.503	12.3	21.9	148 E	2	73
5 11	13 22.64	−42 41.9	1.619	2.520	12.9	22.0	146 E	2	73
5 16	13 17.13	−42 8.9	1.653	2.537	13.8	22.1	143 E	3	74
193178 2000 PK_5									
3 22	14 38.55	−22 21.7	1.626	2.451	16.1	21.5	137 W	23	86
3 27	14 32.71	−21 48.0	1.609	2.482	13.9	21.4	143 W	23	86
4 1	14 26.25	−21 8.7	1.598	2.512	11.6	21.3	150 W	24	85
4 6	14 19.32	−20 24.4	1.594	2.542	9.1	21.2	156 W	25	84
4 11	14 12.11	−19 35.6	1.597	2.571	6.6	21.2	163 W	25	84
4 16	14 4.79	−18 43.5	1.608	2.600	4.2	21.1	169 W	26	83
4 21	13 57.55	−17 49.0	1.626	2.628	2.3	21.0	174 W	27	82
4 26	13 50.58	−16 53.5	1.653	2.655	2.5	21.1	173 E	28	81
5 1	13 44.02	−15 58.5	1.687	2.681	4.5	21.3	168 E	29	80
5 6	13 38.01	−15 5.1	1.730	2.707	6.6	21.5	162 E	30	79
193178 2000 PK_5 *(continuation)*									
5 11	13 32.64	−14 14.5	1.779	2.732	8.7	21.6	156 E	31	78
5 16	13 27.97	−13 27.5	1.836	2.757	10.6	21.8	150 E	32	77
5 21	13 24.03	−12 44.8	1.898	2.781	12.4	22.0	144 E	32	77
222497 2001 SJ_{282}									
3 22	14 46.74	−45 57.1	2.684	3.329	14.6	21.5	123 W	—	70
3 27	14 42.80	−46 33.1	2.646	3.339	13.9	21.4	127 W	—	69
4 1	14 38.13	−47 4.1	2.612	3.350	13.1	21.4	131 W	—	69
4 6	14 32.81	−47 29.4	2.583	3.360	12.3	21.3	134 W	—	69
4 11	14 26.93	−47 48.4	2.559	3.370	11.5	21.3	138 W	—	68
4 16	14 20.61	−48 0.7	2.541	3.380	10.8	21.2	141 W	—	68
4 21	14 14.00	−48 6.0	2.528	3.390	10.1	21.2	144 W	—	68
4 26	14 7.25	−48 4.0	2.523	3.399	9.7	21.2	145 E	—	68
5 1	14 0.55	−47 55.1	2.523	3.408	9.4	21.2	146 E	—	68
5 6	13 54.05	−47 39.6	2.530	3.417	9.4	21.2	147 E	—	68
5 11	13 47.91	−47 18.3	2.543	3.426	9.5	21.2	146 E	—	69
5 16	13 42.25	−46 51.9	2.563	3.435	9.9	21.3	144 E	—	69
5 21	13 37.17	−46 21.4	2.588	3.443	10.4	21.3	142 E	—	70
5 26	13 32.77	−45 47.7	2.620	3.451	11.0	21.4	139 E	—	70
5 31	13 29.08	−45 12.0	2.657	3.459	11.7	21.4	136 E	—	71
6 5	13 26.13	−44 35.3	2.699	3.467	12.4	21.5	133 E	—	71
7753 1988 XB									
3 22	14 51.49	−11 57.6	1.078	1.933	20.4	21.2	137 W	33	76
4 1	14 44.45	−11 12.8	0.964	1.892	15.8	20.8	149 W	34	75
4 11	14 32.37	−10 7.1	0.869	1.848	9.8	20.3	162 W	35	74
4 21	14 15.61	− 8 42.6	0.797	1.800	3.2	19.7	174 W	36	73
4 26	14 5.91	− 7 55.6	0.771	1.775	3.4	19.6	174 E	37	72
5 1	13 55.72	− 7 7.4	0.751	1.749	7.0	19.7	168 E	38	71
5 6	13 45.42	− 6 20.1	0.738	1.722	11.2	19.8	161 E	39	70
5 11	13 35.37	− 5 35.6	0.730	1.695	15.5	19.9	153 E	39	70
5 16	13 25.90	− 4 55.9	0.728	1.666	19.7	20.0	146 E	40	69
5 21	13 17.32	− 4 22.4	0.731	1.637	23.8	20.1	139 E	41	68
5 26	13 9.86	− 3 56.5	0.738	1.607	27.7	20.2	133 E	41	68
5 31	13 3.70	− 3 38.7	0.747	1.576	31.2	20.3	126 E	41	68
6 10	12 55.41	− 3 28.5	0.772	1.511	37.6	20.4	115 E	41*	67
6 20	12 52.39	− 3 49.9	0.799	1.443	42.9	20.6	105 E	37*	68
6 30	12 54.19	− 4 39.6	0.823	1.372	47.5	20.7	96 E	33*	69
7 10	13 0.14	− 5 53.5	0.840	1.298	51.5	20.7	88 E	28*	70*
7 20	13 9.66	− 7 27.8	0.847	1.222	55.3	20.7	81 E	24*	70*
7 30	13 22.33	− 9 19.6	0.841	1.145	59.2	20.6	75 E	20*	67*
8 9	13 37.73	−11 25.8	0.820	1.067	63.4	20.6	70 E	17*	63*
8 19	13 55.54	−13 43.5	0.784	0.990	68.4	20.5	65 E	15*	59*
8 29	14 15.41	−16 9.3	0.731	0.918	74.6	20.3	61 E	13*	55*
9 3	14 25.92	−17 23.8	0.698	0.885	78.2	20.3	59 E	12*	53*
9 8	14 36.64	−18 38.3	0.661	0.854	82.3	20.2	57 E	11*	51*
9 13	14 47.44	−19 52.3	0.621	0.827	86.9	20.2	55 E	10*	49*
9 18	14 58.08	−21 4.9	0.577	0.803	92.0	20.2	53 E	9*	47*
9 23	15 8.29	−22 15.1	0.531	0.784	97.6	20.2	51 E	8*	45*
9 28	15 17.67	−23 21.9	0.482	0.771	103.8	20.3	48 E	7*	42*
10 3	15 25.75	−24 24.4	0.433	0.763	110.6	20.4	46 E	6*	39*
10 8	15 31.96	−25 21.3	0.383	0.761	117.9	20.6	42 E	5*	36*
10 13	15 35.64	−26 11.5	0.334	0.765	125.7	20.9	39 E	3*	32*
10 18	15 36.01	−26 53.2	0.287	0.775	134.1	21.5	34 E	1*	28*
189170 2002 VH_{66}									
3 22	14 52.44	−21 11.5	1.607	2.412	17.2	21.4	134 W	24	85
4 1	14 48.26	−21 0.9	1.493	2.383	13.8	21.1	145 W	24	85
4 11	14 40.99	−20 32.4	1.400	2.354	9.7	20.8	157 W	24	85
4 21	14 31.15	−19 45.4	1.330	2.323	5.0	20.5	168 W	25	84
4 26	14 25.58	−19 15.5	1.305	2.307	2.8	20.3	174 W	26	83
5 1	14 19.80	−18 42.1	1.286	2.292	2.2	20.2	175 E	26	83
5 6	14 14.00	−18 6.2	1.274	2.275	4.1	20.3	171 E	27	82
5 11	14 8.37	−17 28.7	1.269	2.259	6.7	20.4	165 E	28	81
5 16	14 3.07	−16 50.9	1.270	2.243	9.4	20.5	159 E	28	81
5 21	13 58.28	−16 13.8	1.277	2.226	12.0	20.6	153 E	29	80
5 26	13 54.13	−15 38.8	1.290	2.209	14.5	20.7	147 E	29	80
5 31	13 50.73	−15 6.7	1.307	2.192	16.8	20.8	141 E	30	79
6 5	13 48.15	−14 38.4	1.330	2.174	19.0	20.9	136 E	30	79
6 10	13 46.41	−14 14.4	1.356	2.157	21.0	21.0	130 E	31	78
6 15	13 45.53	−13 55.1	1.385	2.139	22.8	21.0	125 E	31*	78
6 20	13 45.52	−13 40.8	1.417	2.121	24.4	21.1	120 E	31*	78
6 25	13 46.35	−13 31.4	1.451	2.104	25.8	21.2	116 E	30*	78
6 30	13 48.00	−13 27.0	1.487	2.085	27.0	21.3	111 E	29*	77
7 5	13 50.42	−13 27.2	1.524	2.067	28.0	21.3	107 E	28*	77
7 10	13 53.58	−13 31.8	1.561	2.049	28.9	21.4	103 E	27*	78
7 15	13 57.44	−13 40.5	1.600	2.030	29.6	21.4	99 E	26*	78
7 20	14 1.95	−13 52.9	1.638	2.012	30.2	21.5	96 E	25*	78

141053 2001 XT_1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	14 53.68	−21 22.7	1.046	1.881	22.4	21.2	134 W	24	85
3 27	14 51.50	−21 32.3	0.975	1.851	20.5	21.0	139 W	23	86
4 1	14 47.97	−21 37.3	0.908	1.819	18.3	20.7	145 W	23	86
4 6	14 42.96	−21 36.5	0.844	1.787	15.8	20.5	151 W	23	86
4 11	14 36.36	−21 28.8	0.786	1.753	12.8	20.2	157 W	24	85
4 16	14 28.12	−21 12.9	0.733	1.719	9.6	19.8	163 W	24	85
4 21	14 18.22	−20 47.2	0.685	1.683	6.2	19.5	170 W	24	85
4 26	14 6.82	−20 10.4	0.643	1.646	4.2	19.2	173 E	25	84
5 1	13 54.15	−19 22.0	0.607	1.609	6.5	19.1	170 E	26	83
5 6	13 40.61	−18 22.3	0.578	1.570	11.0	19.2	163 E	27	82
5 11	13 26.65	−17 12.5	0.555	1.530	16.3	19.2	155 E	28	81
5 16	13 12.78	−15 55.0	0.537	1.490	21.9	19.3	147 E	29	80
5 21	12 59.49	−14 32.9	0.524	1.448	27.5	19.3	139 E	30	79
5 26	12 47.24	−13 9.9	0.516	1.405	33.2	19.4	131 E	32	77
5 31	12 36.30	−11 49.3	0.511	1.361	38.7	19.5	123 E	33*	76
6 5	12 26.83	−10 33.7	0.507	1.316	44.0	19.5	116 E	33*	75
6 10	12 18.83	− 9 24.4	0.505	1.270	49.3	19.6	109 E	33*	73
6 20	12 6.84	− 7 26.3	0.499	1.175	59.4	19.7	96 E	30*	71
6 30	11 58.89	− 5 50.4	0.487	1.078	69.6	19.7	84 E	25*	69*
7 10	11 52.34	− 4 20.1	0.463	0.979	81.1	19.8	72 E	20*	63*
7 15	11 48.43	− 3 28.2	0.447	0.930	87.8	19.9	66 E	17*	58*
7 20	11 43.25	− 2 25.1	0.428	0.882	95.5	20.0	60 E	15*	53*
7 25	11 35.91	− 1 3.5	0.406	0.835	104.5	20.2	53 E	12*	46*
7 30	11 25.28	+ 0 45.2	0.384	0.790	115.2	20.6	45 E	9*	38*
8 4	11 10.17	+ 3 9.9	0.364	0.749	128.0	21.4	36 E	6*	29*

519354 2011 KR_{12}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	14 57.32	−15 10.2	0.488	1.386	30.4	21.8	135 W	30	79
3 27	14 49.15	−15 25.9	0.460	1.389	26.2	21.5	142 W	30	79
4 1	14 38.42	−15 35.7	0.434	1.391	21.5	21.3	149 W	29	80
4 6	14 25.18	−15 37.9	0.413	1.391	16.1	21.0	157 W	29	80
4 11	14 9.68	−15 31.1	0.396	1.389	10.3	20.7	166 W	29	80
4 16	13 52.44	−15 14.2	0.385	1.387	4.6	20.3	174 W	30	79
4 21	13 34.25	−14 47.4	0.379	1.382	4.4	20.3	174 E	30	79
4 26	13 16.11	−14 12.7	0.379	1.376	10.3	20.5	166 E	31	78
5 1	12 58.99	−13 33.5	0.384	1.369	16.7	20.8	157 E	31	78
5 6	12 43.65	−12 53.8	0.394	1.360	22.7	21.0	149 E	32	77
5 11	12 30.56	−12 17.2	0.408	1.350	28.3	21.3	141 E	33	76
5 16	12 19.89	−11 46.2	0.425	1.339	33.4	21.5	133 E	33	76

275976 2001 XV_{10}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	15 2.41	−19 25.2	2.399	3.162	13.4	21.4	133 W	26	83
4 1	14 55.45	−19 41.9	2.265	3.130	10.8	21.1	144 W	25	84
4 11	14 45.92	−19 49.7	2.154	3.096	7.6	20.9	156 W	25	84
4 21	14 34.25	−19 47.5	2.071	3.060	4.0	20.6	168 W	25	84
5 1	14 21.25	−19 35.4	2.018	3.023	1.8	20.3	175 E	25	84
5 6	14 14.59	−19 26.2	2.004	3.004	3.2	20.4	170 E	26	83
5 11	14 8.01	−19 15.5	1.998	2.984	5.1	20.5	165 E	26	83
5 16	14 1.65	−19 3.7	1.999	2.964	7.1	20.6	159 E	26	83
5 21	13 55.63	−18 51.5	2.007	2.943	9.1	20.7	153 E	26	83
5 26	13 50.08	−18 39.5	2.023	2.922	11.0	20.7	147 E	26	83
5 31	13 45.08	−18 28.3	2.044	2.901	12.8	20.8	141 E	27	82
6 5	13 40.71	−18 18.5	2.071	2.879	14.4	20.9	135 E	27	82
6 10	13 37.01	−18 10.5	2.102	2.856	15.9	21.0	129 E	27	82
6 15	13 34.00	−18 4.8	2.138	2.834	17.3	21.0	124 E	27*	82
6 20	13 31.70	−18 1.7	2.177	2.810	18.5	21.1	119 E	26*	82
6 25	13 30.10	−18 1.4	2.219	2.787	19.5	21.1	114 E	25*	82
6 30	13 29.20	−18 4.0	2.263	2.763	20.4	21.2	109 E	24*	82
7 5	13 28.97	−18 9.7	2.308	2.738	21.1	21.2	104 E	22*	82
7 10	13 29.38	−18 18.4	2.354	2.713	21.7	21.3	99 E	20*	82
7 15	13 30.41	−18 30.1	2.401	2.687	22.1	21.3	95 E	19*	83
7 20	13 32.02	−18 44.7	2.447	2.661	22.4	21.3	91 E	17*	82*
7 25	13 34.19	−19 2.2	2.492	2.635	22.6	21.4	87 E	15*	80*
7 30	13 36.89	−19 22.3	2.537	2.608	22.7	21.4	83 E	14*	76*
8 4	13 40.09	−19 45.1	2.580	2.580	22.7	21.4	79 E	12*	73*
8 9	13 43.77	−20 10.3	2.621	2.552	22.6	21.4	75 E	11*	69*
8 14	13 47.91	−20 37.7	2.660	2.524	22.3	21.4	71 E	10*	65*
8 19	13 52.49	−21 7.3	2.697	2.495	22.0	21.4	68 E	8*	61*
8 24	13 57.50	−21 38.9	2.731	2.466	21.7	21.4	64 E	7*	58*
8 29	14 2.92	−22 12.3	2.762	2.436	21.2	21.4	61 E	6*	54*
9 3	14 8.73	−22 47.4	2.790	2.405	20.7	21.4	58 E	5*	51*
9 8	14 14.94	−23 24.0	2.816	2.374	20.2	21.3	54 E	4*	48*
9 13	14 21.53	−24 2.0	2.837	2.343	19.6	21.3	51 E	3*	44*
9 18	14 28.52	−24 41.1	2.856	2.311	18.9	21.3	48 E	2*	41*
9 23	14 35.89	−25 21.4	2.871	2.278	18.2	21.2	45 E	1*	38*
9 28	14 43.65	−26 2.4	2.882	2.245	17.5	21.2	42 E	—	35*
10 3	14 51.79	−26 44.1	2.890	2.212	16.7	21.1	40 E	—	33*
10 8	15 0.34	−27 26.3	2.894	2.178	16.0	21.1	37 E	—	30*
10 13	15 9.29	−28 8.8	2.895	2.143	15.1	21.0	34 E	—	27*
10 18	15 18.67	−28 51.3	2.891	2.108	14.3	20.9	32 E	—	25*

275976 2001 XV_{10} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 23	15 28.48	−29 33.7	2.884	2.072	13.5	20.9	29 E	—	22*
10 28	15 38.73	−30 15.6	2.874	2.036	12.7	20.8	27 E	—	20*
11 2	15 49.44	−30 56.8	2.860	2.000	11.9	20.7	24 E	—	18*
11 7	16 0.64	−31 36.9	2.843	1.963	11.1	20.6	22 E	—	15*
11 12	16 12.33	−32 15.6	2.822	1.925	10.3	20.5	20 E	—	13*
11 17	16 24.55	−32 52.6	2.798	1.887	9.6	20.4	19 E	—	11*
11 27	16 50.60	−33 59.5	2.741	1.809	8.4	20.3	15 E	—	8*
12 7	17 18.95	−34 53.6	2.673	1.729	7.6	20.1	13 E	—	5*
12 17	17 49.71	−35 30.0	2.596	1.648	7.3	19.9	12 E	—	2*
12 22	18 6.01	−35 39.9	2.555	1.607	7.5	19.8	12 E	—	1*
12 27	18 22.90	−35 43.1	2.512	1.566	7.7	19.7	12 W	—	1*
1 1	18 40.38	−35 38.7	2.468	1.524	8.1	19.6	13 W	—	2*
1 6	18 58.42	−35 26.0	2.424	1.483	8.6	19.6	13 W	—	2*
1 11	19 16.99	−35 4.0	2.379	1.441	9.2	19.5	14 W	—	3*
1 16	19 36.04	−34 31.8	2.333	1.399	9.8	19.4	14 W	—	4*

21277 1996 TO_5

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	15 6.10	+ 2 56.7	2.515	3.294	12.4	21.4	135 W	48	61
4 1	15 0.56	+ 4 29.4	2.458	3.321	10.1	21.3	144 W	49	60
4 11	14 53.25	+ 5 59.4	2.427	3.347	8.0	21.2	152 W	51	58
4 21	14 44.72	+ 7 20.6	2.423	3.372	6.6	21.2	157 W	52	57
5 1	14 35.65	+ 8 27.4	2.448	3.396	6.8	21.2	156 W	53	56
5 11	14 26.80	+ 9 15.8	2.502	3.418	8.3	21.3	151 E	54	55
5 21	14 18.86	+ 9 44.0	2.582	3.440	10.4	21.5	142 E	55	54
5 31	14 12.35	+ 9 52.2	2.685	3.459	12.3	21.7	133 E	55	54

154589 2003 MX_2

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	15 6.55	−13 9.0	2.137	2.914	14.4	21.4	134 W	32	77
4 1	15 1.72	−12 51.1	2.007	2.880	11.6	21.1	145 W	32	77
4 11	14 54.32	−12 25.1	1.900	2.845	8.2	20.8	156 W	33	76
4 21	14 44.72	−11 52.6	1.818	2.809	4.3	20.5	168 W	33	76
5 1	14 33.66	−11 16.2	1.765	2.771	1.4	20.2	176 W	34	75
5 6	14 27.91	−10 57.9	1.750	2.752	3.0	20.3	172 E	34	75
5 11	14 22.18	−10 40.3	1.742	2.732	5.2	20.4	166 E	34	75
5 16	14 16.62	−10 24.0	1.741	2.712	7.4	20.5	160 E	35	74
5 21	14 11.35	−10 9.5	1.746	2.692	9.6	20.6	154 E	35	74
5 26	14 6.51	− 9 57.4	1.758	2.671	11.6	20.7	148 E	35	74
5 31	14 2.20	− 9 48.1	1.776	2.650	13.6	20.7	142 E	35	74
6 5	13 58.48	− 9 42.1	1.799	2.629	15.4	20.8	136 E	35	74
6 10	13 55.42	− 9 39.5	1.827	2.607	17.1	20.9	131 E	35	74
6 15	13 53.04	− 9 40.4	1.859	2.585	18.6	21.0	126 E	35*	74
6 20	13 51.36	− 9 44.9	1.893	2.563	20.0	21.0	120 E	35*	74
6 25	13 50.40	− 9 53.0	1.931	2.540	21.2	21.1	116 E	34*	74
6 30	13 50.15	−10 4.6	1.970	2.517	22.2	21.1	111 E	33*	74
7 5	13 50.58	−10 19.7	2.011	2.494	23.0	21.2	106 E	31*	74
7 10	13 51.66	−10 37.9	2.053	2.470	23.8	21.2	102 E	30*	75
7 15	13 53.39	−10 59.1	2.096	2.446	24.3	21.3	98 E	28*	75
7 20	13 55.72	−11 23.2	2.138	2.422	24.8	21.3	93 E	26*	75
7 25	13 58.64	−11 49.9	2.181	2.397	25.1	21.3	89 E	25*	76*
7 30	14 2.12	−12 19.0	2.222	2.372	25.3	21.4	86 E	23*	75*
8 4	14 6.12	−12 50.3	2.263	2.347	25.3	21.4	82 E	22*	73*
8 9	14 10.63	−13 23.5	2.302	2.322	25.3	21.4	78 E	20*	71*
8 14	14 15.62	−13 58.5	2.340	2.296	25.2	21.4	75 E	19*	68*
8 19	14 21.09	−14 35.0	2.376	2.270	25.0	21.4	72 E	18*	65*
8 24	14 27.01	−15 12.9	2.410	2.243	24.8	21.4	68 E	16*	62*
8 29	14 33.37	−15 52.0	2.442	2.216	24.4	21.4	65 E	15*	59*
9 3	14 40.15	−16 31.9	2.472	2.189	24.0	21.4	62 E	14*	56*
9 8	14 47.36	−17 12.6	2.499	2.162	23.6	21.4	59 E	13*	53*
9 13	14 54.97	−17 53.8	2.524	2.135	23.1	21.4	56 E	13*	50*
9 18	15 3.00	−18 35.2	2.547	2.107	22.5	21.3	53 E	12*	47*
9 23	15 11.43	−19 16.7	2.566	2.079	21.9	21.3	51 E	11*	45*
9 28	15 20.27	−19 58.0	2.584	2.050	21.2	21.3	48 E	10*	42*
10 3	15 29.51	−20 38.9	2.598	2.022	20.6	21.2	45 E	9*	39*
10 8	15 39.16	−21 19.0	2.610	1.993	19.8	21.2	43 E	9*	37*
10 13	15 49.21	−21 58.2	2.619	1.964	19.1	21.1	40 E	8*	34*
10 18	15 59.68	−22 36.2	2.626	1.935	18.3	21.1	38 E	8*	32*
10 23	16 10.57	−23 12.6	2.630	1.906	17.6	21.0	35 E	7*	29*
10 28	16 21.87	−23 47.2	2.631	1.877	16.7	21.0	33 E	6*	27*
11 2	16 33.58	−24 19.6	2.630	1.848	15.9	20.9	31 E	6*	25*
11 7	16 45.72	−24 49.4	2.626	1.818	15.1	20.8	29 E	5*	22*
11 12	16 58.29	−25 16.4	2.621	1.789	14.2	20.8	26 E	5*	20*
11 17	17 11.27	−25 40.1	2.613	1.760	13.4	20.7	24 E	4*	18*
11 22	17 24.68	−26 0.1	2.603	1.731	12.5	20.6	22 E	3*	16*
11 27	17 38.49	−26 16.1	2.590	1.701	11.7	20.5	20 E	3*	14*
12 2	17 52.71	−26 27.5	2.577	1.672	10.9	20.5	19 E	2*	12*
12 7	18 7.31	−26 34.1	2.561	1.644	10.0	20.4	17 E	2*	10*
12 17	18 37.64	−26 31.0	2.526	1.587	8.4	20.2	14 E	—	7*
12 27	19 9.30	−26 3.7	2.487	1.532	6.9	20.0	11 E	—	4*
1 6	19 42.05	−25 9.5	2.445	1.479	5.5	19.8	8 E	—	2*
1 16	20 15.65	−23 46.5	2.403	1.429	4.4	19.7	6 E	—	—

416678 2004 XT_5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	15 10.89	−32 49.6	2.244	2.941	15.9	21.4	126 W	12	83
4 1	15 6.21	−32 20.3	2.134	2.939	13.6	21.2	136 W	13	84
4 11	14 58.97	−31 29.5	2.043	2.936	10.7	21.0	147 W	14	85
4 21	14 49.72	−30 15.8	1.977	2.932	7.5	20.8	158 W	15	86
5 1	14 39.38	−28 40.1	1.938	2.927	4.7	20.6	166 W	16	87
5 11	14 29.05	−26 47.4	1.929	2.921	4.6	20.6	167 E	18	89
5 21	14 19.75	−24 45.5	1.949	2.914	7.4	20.7	158 E	20	89
5 31	14 12.33	−22 43.9	1.998	2.906	10.7	20.9	148 E	22	87
6 10	14 7.28	−20 50.8	2.071	2.897	13.8	21.1	137 E	24	85
6 20	14 4.77	−19 12.2	2.164	2.887	16.4	21.3	127 E	26*	83
6 30	14 4.77	−17 51.1	2.272	2.876	18.4	21.4	117 E	26*	82

315186 Schade

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	15 15.07	−26 33.5	1.867	2.598	17.7	21.5	128 W	18	89
4 1	15 11.88	−27 2.5	1.743	2.572	15.1	21.2	138 W	18	89
4 11	15 5.58	−27 17.9	1.637	2.545	11.9	20.9	148 W	18	89
4 21	14 56.45	−27 16.7	1.554	2.518	8.2	20.6	159 W	18	89
5 1	14 45.26	−26 56.6	1.495	2.489	4.9	20.4	168 W	18	89
5 6	14 39.28	−26 39.6	1.476	2.475	4.3	20.3	169 E	18	89
5 11	14 33.28	−26 18.6	1.464	2.460	5.0	20.3	168 E	19	90
5 16	14 27.42	−25 54.1	1.458	2.445	6.7	20.4	164 E	19	90
5 21	14 21.89	−25 27.1	1.459	2.430	8.7	20.4	159 E	20	89
5 26	14 16.84	−24 58.5	1.466	2.414	10.9	20.5	153 E	20	89
5 31	14 12.42	−24 29.5	1.479	2.399	13.0	20.6	148 E	21	88
6 5	14 8.72	−24 1.1	1.497	2.383	15.1	20.7	142 E	21	88
6 10	14 5.80	−23 34.2	1.520	2.367	17.0	20.8	137 E	21	88
6 15	14 3.71	−23 9.5	1.547	2.351	18.8	20.9	132 E	22	87
6 20	14 2.46	−22 47.7	1.578	2.335	20.4	20.9	127 E	22*	87
6 25	14 2.06	−22 29.3	1.612	2.318	21.8	21.0	122 E	22*	86
6 30	14 2.49	−22 14.6	1.649	2.301	23.1	21.1	117 E	21*	86
7 5	14 3.72	−22 3.7	1.688	2.285	24.2	21.2	113 E	21*	86
7 10	14 5.71	−21 56.6	1.728	2.268	25.1	21.2	109 E	20*	86
7 15	14 8.42	−21 53.2	1.769	2.251	25.9	21.3	105 E	19*	86
7 20	14 11.83	−21 53.3	1.811	2.233	26.6	21.3	101 E	18*	86
7 25	14 15.89	−21 56.9	1.854	2.216	27.1	21.4	97 E	17*	86
7 30	14 20.58	−22 3.6	1.896	2.199	27.5	21.4	93 E	16*	86*
8 4	14 25.84	−22 13.1	1.939	2.181	27.7	21.5	90 E	15*	83*
8 9	14 31.66	−22 25.1	1.981	2.163	27.9	21.5	86 E	15*	80*

382394 3549 *P–L*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	15 28.41	−19 2.4	2.393	3.097	14.9	21.4	127 W	26	83
4 1	15 25.93	−18 27.4	2.259	3.073	12.7	21.2	138 W	27	82
4 11	15 21.10	−17 40.7	2.145	3.047	9.8	20.9	149 W	27	82
4 21	15 14.17	−16 42.8	2.055	3.021	6.4	20.7	160 W	28	81
5 1	15 5.68	−15 36.1	1.992	2.994	2.6	20.4	172 W	29	80
5 6	15 1.10	−15 0.5	1.972	2.980	0.9	20.2	177 W	30	79
5 11	14 56.43	−14 24.4	1.958	2.966	1.7	20.2	175 E	31	78
5 16	14 51.79	−13 48.2	1.952	2.951	3.7	20.4	169 E	31	78
5 21	14 47.30	−13 12.8	1.954	2.937	5.8	20.5	163 E	32	77
5 26	14 43.07	−12 38.9	1.962	2.922	7.7	20.5	157 E	32	77
5 31	14 39.20	−12 7.1	1.977	2.907	9.6	20.6	151 E	33	76
6 5	14 35.77	−11 38.0	1.998	2.892	11.4	20.7	146 E	33	76
6 10	14 32.84	−11 12.1	2.024	2.877	13.1	20.8	140 E	34	75
6 15	14 30.46	−10 49.5	2.055	2.861	14.7	20.9	135 E	34	75
6 20	14 28.66	−10 30.7	2.091	2.845	16.1	20.9	129 E	34	75
6 25	14 27.47	−10 15.7	2.131	2.829	17.3	21.0	124 E	35*	74
6 30	14 26.89	−10 4.5	2.174	2.813	18.4	21.1	119 E	34*	74
7 5	14 26.92	− 9 57.1	2.219	2.797	19.3	21.1	114 E	34*	74
7 10	14 27.54	− 9 53.3	2.266	2.780	20.1	21.2	110 E	33*	74
7 15	14 28.74	− 9 52.8	2.315	2.764	20.8	21.3	105 E	32*	74
7 20	14 30.49	− 9 55.6	2.366	2.747	21.3	21.3	101 E	31*	74
7 25	14 32.78	−10 1.5	2.416	2.730	21.7	21.3	97 E	30*	74
7 30	14 35.58	−10 10.0	2.467	2.712	22.0	21.4	93 E	29*	74
8 4	14 38.87	−10 21.0	2.518	2.695	22.1	21.4	89 E	27*	74*
8 9	14 42.62	−10 34.2	2.568	2.677	22.2	21.5	85 E	26*	73*
8 14	14 46.80	−10 49.3	2.618	2.659	22.1	21.5	81 E	25*	71*

371522 2006 UG_{185}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	15 28.97	+ 5 1.1	4.601	5.285	8.4	21.4	129 W	50	59
4 1	15 26.74	+ 5 43.8	4.509	5.290	7.3	21.3	138 W	51	58
4 11	15 23.43	+ 6 24.5	4.438	5.295	6.1	21.2	146 W	51	58
4 21	15 19.24	+ 7 0.8	4.393	5.301	5.1	21.2	152 W	52	57
5 1	15 14.43	+ 7 30.2	4.374	5.306	4.6	21.1	155 W	53	56
5 11	15 9.35	+ 7 50.9	4.383	5.311	4.7	21.1	154 E	53	56
5 21	15 4.33	+ 8 1.4	4.419	5.316	5.5	21.2	149 E	53	56
5 31	14 59.70	+ 8 1.2	4.481	5.321	6.7	21.3	142 E	53	56
6 10	14 55.76	+ 7 50.3	4.566	5.325	7.8	21.4	134 E	53	56
6 20	14 52.70	+ 7 29.5	4.671	5.330	8.9	21.5	126 E	52	57

469510 2003 MJ_9

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	15 29.53	−25 13.1	2.237	2.926	16.2	21.5	125 W	20	89
4 1	15 27.87	−24 59.6	2.092	2.889	14.1	21.2	135 W	20	89
4 11	15 23.61	−24 32.0	1.965	2.851	11.3	20.9	146 W	20	89
4 21	15 16.92	−23 48.7	1.859	2.813	7.9	20.7	157 W	21	88
5 1	15 8.28	−22 49.4	1.779	2.774	4.1	20.3	169 W	22	87
5 6	15 3.50	−22 14.4	1.749	2.754	2.3	20.2	174 W	23	86
5 11	14 58.58	−21 36.4	1.727	2.734	1.8	20.1	175 E	23	86
5 16	14 53.64	−20 56.1	1.711	2.714	3.4	20.2	171 E	24	85
5 21	14 48.83	−20 14.4	1.703	2.694	5.5	20.3	165 E	25	84
5 26	14 44.28	−19 32.1	1.701	2.674	7.7	20.3	159 E	25	84
5 31	14 40.12	−18 50.1	1.706	2.653	9.8	20.4	154 E	26	83
6 5	14 36.45	−18 9.5	1.718	2.632	11.9	20.5	148 E	27	82
6 10	14 33.36	−17 31.0	1.734	2.611	13.8	20.6	142 E	27	82
6 15	14 30.89	−16 55.3	1.756	2.590	15.6	20.6	137 E	28	81
6 20	14 29.10	−16 23.0	1.782	2.569	17.3	20.7	131 E	29	80
6 25	14 28.00	−15 54.4	1.812	2.548	18.8	20.8	126 E	29*	80
6 30	14 27.62	−15 29.9	1.846	2.527	20.1	20.8	121 E	29*	79
7 5	14 27.94	−15 9.6	1.882	2.505	21.3	20.9	116 E	29*	79
7 10	14 28.95	−14 53.3	1.920	2.483	22.3	21.0	112 E	28*	79
7 15	14 30.62	−14 41.1	1.960	2.462	23.2	21.0	107 E	27*	79
7 20	14 32.93	−14 32.8	2.001	2.440	23.9	21.1	103 E	27*	79
7 25	14 35.87	−14 28.1	2.043	2.418	24.5	21.1	99 E	26*	78
7 30	14 39.39	−14 26.8	2.085	2.396	25.0	21.1	95 E	25*	78
8 4	14 43.47	−14 28.6	2.127	2.374	25.3	21.2	91 E	24*	78*
8 9	14 48.08	−14 33.2	2.168	2.352	25.5	21.2	87 E	23*	77*
8 14	14 53.20	−14 40.3	2.210	2.330	25.6	21.2	84 E	23*	75*
8 19	14 58.81	−14 49.5	2.250	2.308	25.6	21.2	80 E	22*	73*
8 24	15 4.88	−15 0.6	2.289	2.285	25.5	21.3	77 E	21*	70*
8 29	15 11.40	−15 13.3	2.327	2.263	25.4	21.3	74 E	21*	67*
9 3	15 18.33	−15 27.1	2.364	2.241	25.1	21.3	71 E	20*	64*
9 8	15 25.68	−15 41.8	2.399	2.219	24.8	21.3	68 E	19*	61*
9 13	15 33.41	−15 57.2	2.432	2.197	24.4	21.3	65 E	19*	58*
9 18	15 41.54	−16 12.8	2.464	2.175	24.0	21.3	62 E	19*	55*
9 23	15 50.03	−16 28.4	2.493	2.153	23.5	21.3	59 E	18*	52*
9 28	15 58.87	−16 43.7	2.521	2.131	23.0	21.2	56 E	18*	49*
10 3	16 8.07	−16 58.4	2.546	2.109	22.4	21.2	53 E	17*	47*
10 8	16 17.59	−17 12.2	2.570	2.087	21.8	21.2	51 E	17*	44*
10 13	16 27.44	−17 24.8	2.592	2.066	21.1	21.2	48 E	17*	41*
10 18	16 37.61	−17 35.9	2.612	2.045	20.4	21.2	46 E	16*	38*
10 23	16 48.09	−17 45.3	2.629	2.023	19.7	21.1	43 E	16*	36*
10 28	16 58.87	−17 52.7	2.645	2.003	19.0	21.1	41 E	16*	33*
11 2	17 9.92	−17 57.7	2.658	1.982	18.2	21.0	39 E	16*	30*
11 7	17 21.24	−18 0.2	2.670	1.962	17.4	21.0	36 E	15*	28*
11 12	17 32.83	−17 59.9	2.680	1.941	16.6	21.0	34 E	15*	25*
11 17	17 44.67	−17 56.6	2.688	1.922	15.8	20.9	32 E	15*	22*
11 22	17 56.74	−17 49.9	2.695	1.902	15.0	20.9	30 E	14*	20*
11 27	18 9.02	−17 39.8	2.699	1.883	14.1	20.8	28 E	14*	17*
12 2	18 21.50	−17 26.0	2.702	1.865	13.3	20.8	26 E	13*	15*
12 7	18 34.17	−17 8.4	2.704	1.847	12.5	20.7	24 E	13*	12*
12 12	18 47.00	−16 46.8	2.704	1.829	11.6	20.7	22 E	12*	10*
12 17	18 59.99	−16 21.2	2.704	1.812	10.8	20.6	20 E	11*	8*
12 22	19 13.11	−15 51.4	2.702	1.796	10.0	20.6	19 E	11*	5*
12 27	19 26.35	−15 17.3	2.699	1.780	9.2	20.5	17 E	10*	3*
1 1	19 39.67	−14 39.0	2.695	1.765	8.4	20.5	15 E	9*	1*
1 6	19 53.08	−13 56.6	2.690	1.751	7.7	20.4	14 E	8*	—
1 11	20 6.56	−13 9.9	2.685	1.737	7.0	20.4	12 E	6*	—
1 16	20 20.09	−12 19.2	2.679	1.724	6.3	20.3	11 E	5*	—

331857 2003 WN_7

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	15 32.62	+18 25.9	3.250	3.917	11.9	21.4	126 W	63	46
4 1	15 28.72	+19 37.2	3.168	3.913	10.9	21.3	132 W	65	44
4 11	15 23.07	+20 40.7	3.107	3.908	9.9	21.3	138 W	66	43
4 21	15 15.97	+21 31.5	3.068	3.903	9.3	21.2	141 W	67	42
5 1	15 7.90	+22 4.7	3.054	3.897	9.2	21.2	142 W	67	42
5 11	14 59.44	+22 17.1	3.064	3.890	9.7	21.2	140 E	67	42
5 21	14 51.22	+22 7.5	3.098	3.882	10.6	21.3	135 E	67	42
5 31	14 43.81	+21 36.4	3.154	3.874	11.7	21.3	129 E	67	42
6 10	14 37.68	+20 45.9	3.229	3.865	12.9	21.4	122 E	66	43

330825 2008 XE_3

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	15 39.47	−29 17.6	2.382	3.027	16.3	21.5	122 W	16	87
4 1	15 37.25	−29 44.4	2.219	2.978	14.5	21.2	132 W	15	86
4 11	15 32.17	−30 1.2	2.072	2.927	12.2	20.9	142 W	15	86
4 21	15 24.28	−30 4.8	1.946	2.876	9.3	20.7	153 W	15	86
5 1	15 13.93	−29 51.7	1.845	2.823	6.2	20.4	163 W	15	86
5 6	15 8.09	−29 38.4	1.805	2.796	4.9	20.2	166 W	15	86
5 11	15 1.97	−29 20.4	1.772	2.769	4.2	20.1	168 E	16	87
5 16	14 55.73	−28 58.1	1.746	2.741	4.7	20.1	167 E	16	87
5 21	14 49.52	−28 31.8	1.727	2.713	6.1	20.1	164 E	16	87
5 26	14 43.52	−28 2.2	1.715	2.685	7.9	20.2	159 E	17	88
5 31	14 37.88	−27 30.2	1.710	2.656	9.8	20.2	153 E	17	88

330825 2008 XE_3 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 5	14 32.75	−26 56.7	1.711	2.627	11.8	20.3	148 E	18	89
6 10	14 28.21	−26 22.8	1.718	2.598	13.8	20.3	142 E	19	90
6 15	14 24.38	−25 49.4	1.730	2.568	15.7	20.4	137 E	19	90
6 20	14 21.29	−25 17.3	1.747	2.538	17.4	20.4	132 E	20	89
6 30	14 17.54	−24 20.1	1.792	2.478	20.5	20.6	121 E	20*	88
7 10	14 17.04	−23 35.8	1.848	2.415	23.0	20.6	112 E	19*	88
7 20	14 19.65	−23 6.0	1.910	2.352	24.9	20.7	103 E	18*	87
7 30	14 25.17	−22 51.0	1.974	2.287	26.3	20.8	94 E	16*	87*
8 9	14 33.35	−22 49.6	2.037	2.222	27.1	20.8	87 E	14*	81*
8 19	14 43.99	−22 59.8	2.096	2.155	27.5	20.8	79 E	13*	73*
8 29	14 56.91	−23 19.6	2.149	2.087	27.5	20.8	73 E	12*	67*
9 8	15 11.97	−23 46.0	2.194	2.018	27.3	20.8	67 E	11*	60*
9 18	15 29.10	−24 16.4	2.230	1.949	26.8	20.7	61 E	10*	55*
9 28	15 48.26	−24 47.9	2.257	1.879	26.0	20.6	55 E	9*	49*
10 8	16 9.39	−25 17.1	2.274	1.809	25.2	20.5	50 E	9*	44*
10 18	16 32.51	−25 40.6	2.282	1.738	24.2	20.4	46 E	9*	40*
10 28	16 57.58	−25 54.8	2.280	1.669	23.2	20.3	41 E	9*	35*
11 7	17 24.55	−25 55.5	2.270	1.600	22.1	20.2	37 E	9*	31*
11 17	17 53.37	−25 38.7	2.253	1.533	21.0	20.0	34 E	9*	27*
11 27	18 23.89	−25 0.2	2.229	1.468	20.0	19.9	31 E	9*	23*
12 7	18 55.91	−23 56.2	2.201	1.406	19.0	19.7	28 E	10*	20*
12 17	19 29.21	−22 23.3	2.171	1.349	18.2	19.6	25 E	10*	16*
12 27	20 3.51	−20 19.4	2.140	1.297	17.5	19.4	23 E	11*	13*
1 6	20 38.50	−17 43.8	2.111	1.253	17.0	19.3	22 E	11*	11*
1 16	21 13.94	−14 37.6	2.086	1.217	16.6	19.2	21 E	12*	9*

371513 2006 UP_{82}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	15 47.11	−24 36.0	1.733	2.408	20.7	21.3	121 W	20	89
4 1	15 48.21	−25 11.1	1.598	2.375	18.6	21.0	131 W	20	89
4 11	15 46.12	−25 38.3	1.477	2.342	15.6	20.8	141 W	19	90
4 21	15 40.69	−25 55.1	1.374	2.308	12.0	20.4	152 W	19	90
5 1	15 32.17	−25 58.6	1.293	2.274	7.7	20.1	162 W	19	90
5 6	15 26.99	−25 54.7	1.261	2.257	5.5	19.9	168 W	19	90
5 11	15 21.39	−25 47.1	1.236	2.240	3.7	19.8	172 W	19	90
5 16	15 15.53	−25 35.7	1.216	2.223	3.4	19.7	172 E	19	90
5 21	15 9.63	−25 21.0	1.203	2.205	5.0	19.7	169 E	20	89
5 26	15 3.89	−25 3.6	1.197	2.188	7.4	19.8	164 E	20	89
5 31	14 58.53	−24 44.3	1.196	2.171	9.9	19.9	158 E	20	89
6 5	14 53.72	−24 24.3	1.201	2.153	12.5	20.0	153 E	21	88
6 10	14 49.60	−24 4.3	1.211	2.136	15.0	20.1	147 E	21	88
6 15	14 46.29	−23 45.3	1.226	2.118	17.3	20.2	142 E	21	88
6 20	14 43.87	−23 28.1	1.245	2.101	19.5	20.3	136 E	22	87
6 30	14 41.87	−23 1.9	1.294	2.067	23.3	20.4	126 E	22*	87
7 10	14 43.67	−22 48.9	1.354	2.033	26.4	20.6	117 E	21*	87
7 20	14 49.06	−22 49.8	1.421	1.999	28.7	20.7	109 E	20*	87
7 30	14 57.76	−23 3.5	1.492	1.966	30.4	20.8	102 E	18*	87
8 9	15 9.43	−23 27.6	1.564	1.933	31.5	20.9	95 E	17*	87*
8 19	15 23.74	−23 59.1	1.637	1.902	32.1	21.0	88 E	16*	82*
8 29	15 40.48	−24 34.8	1.709	1.871	32.4	21.1	83 E	15*	77*
9 8	15 59.38	−25 11.3	1.778	1.842	32.3	21.1	77 E	14*	71*
9 18	16 20.25	−25 45.0	1.845	1.815	31.9	21.2	72 E	14*	66*
9 28	16 42.91	−26 12.6	1.909	1.789	31.2	21.2	68 E	14*	62*
10 8	17 7.14	−26 30.9	1.971	1.765	30.4	21.2	63 E	14*	57*
10 18	17 32.74	−26 36.7	2.029	1.743	29.4	21.2	59 E	14*	53*
10 28	17 59.48	−26 27.6	2.085	1.724	28.3	21.2	55 E	14*	49*
11 7	18 27.08	−26 1.3	2.139	1.707	27.0	21.2	51 E	15*	45*
11 17	18 55.27	−25 16.5	2.191	1.692	25.6	21.2	48 E	15*	40*
11 27	19 23.80	−24 12.2	2.241	1.681	24.1	21.2	44 E	16*	36*
12 7	19 52.39	−22 48.6	2.290	1.672	22.6	21.2	41 E	17*	31*
12 17	20 20.82	−21 6.3	2.338	1.667	21.0	21.2	37 E	17*	27*
12 27	20 48.93	−19 6.8	2.386	1.665	19.3	21.2	34 E	17*	23*
1 6	21 16.55	−16 52.0	2.432	1.665	17.6	21.2	31 E	17*	19*
1 16	21 43.65	−14 24.1	2.478	1.670	15.8	21.1	28 E	16*	15*

269927 2000 OM_{22}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	15 47.71	−34 42.9	2.432	3.032	16.8	21.4	118 W	10	81
4 1	15 46.10	−35 38.7	2.286	3.001	15.3	21.2	128 W	9	80
4 11	15 41.54	−36 25.9	2.156	2.969	13.3	21.0	137 W	9	80
4 21	15 34.07	−37 0.3	2.045	2.936	10.9	20.8	147 W	8	79
5 1	15 24.06	−37 17.2	1.957	2.902	8.4	20.6	155 W	8	79
5 11	15 12.34	−37 13.3	1.895	2.868	6.7	20.4	161 W	8	79
5 16	15 6.19	−37 3.1	1.874	2.850	6.6	20.3	161 E	8	79
5 21	15 0.07	−36 47.5	1.860	2.832	7.1	20.3	160 E	8	79
5 26	14 54.16	−36 27.2	1.853	2.814	8.0	20.4	157 E	9	80
5 31	14 48.60	−36 2.8	1.852	2.796	9.3	20.4	153 E	9	80
6 5	14 43.54	−35 35.2	1.858	2.778	10.8	20.4	149 E	9	80
6 10	14 39.10	−35 5.3	1.869	2.759	12.4	20.5	144 E	10	81
6 15	14 35.35	−34 34.3	1.886	2.740	13.9	20.6	140 E	10	81
6 20	14 32.35	−34 2.9	1.908	2.721	15.4	20.6	135 E	11	82

269927 2000 OM_{22} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 25	14 30.15	−33 32.1	1.934	2.702	16.8	20.7	130 E	11*	82
6 30	14 28.76	−33 2.7	1.964	2.682	18.0	20.7	125 E	12*	83
7 5	14 28.19	−32 35.4	1.997	2.663	19.2	20.8	121 E	12*	83
7 10	14 28.39	−32 10.5	2.033	2.643	20.2	20.9	116 E	11*	84
7 15	14 29.36	−31 48.4	2.072	2.623	21.1	20.9	112 E	11*	84
7 20	14 31.06	−31 29.2	2.112	2.603	21.9	21.0	107 E	10*	85
7 25	14 33.47	−31 13.2	2.153	2.582	22.5	21.0	103 E	10*	85
7 30	14 36.55	−31 0.3	2.196	2.562	23.0	21.0	99 E	9*	85
8 4	14 40.26	−30 50.3	2.238	2.541	23.4	21.1	95 E	9*	85*
8 9	14 44.56	−30 43.2	2.281	2.520	23.7	21.1	91 E	8*	82*
8 14	14 49.43	−30 38.8	2.324	2.499	23.9	21.1	88 E	8*	79*
8 19	14 54.84	−30 36.8	2.366	2.478	24.0	21.2	84 E	7*	76*
8 24	15 0.77	−30 37.0	2.408	2.457	24.0	21.2	81 E	7*	73*
8 29	15 7.18	−30 39.2	2.448	2.436	23.9	21.2	77 E	6*	69*
9 3	15 14.06	−30 43.0	2.488	2.414	23.7	21.2	74 E	6*	66*
9 8	15 21.38	−30 48.2	2.526	2.392	23.4	21.2	71 E	6*	63*
9 13	15 29.13	−30 54.3	2.562	2.371	23.1	21.2	68 E	5*	60*
9 18	15 37.30	−31 1.3	2.597	2.349	22.7	21.2	65 E	5*	57*
9 23	15 45.86	−31 8.7	2.630	2.327	22.3	21.2	62 E	5*	54*
9 28	15 54.81	−31 16.2	2.661	2.305	21.8	21.2	59 E	5*	52*
10 3	16 4.12	−31 23.6	2.689	2.283	21.3	21.2	56 E	4*	49*
10 8	16 13.79	−31 30.4	2.716	2.261	20.7	21.2	53 E	4*	46*
10 13	16 23.81	−31 36.3	2.741	2.239	20.0	21.1	50 E	4*	44*
10 18	16 34.16	−31 41.2	2.763	2.216	19.4	21.1	48 E	4*	41*
10 23	16 44.83	−31 44.7	2.784	2.194	18.7	21.1	45 E	4*	39*
10 28	16 55.81	−31 46.4	2.802	2.172	17.9	21.1	42 E	3*	36*
11 2	17 7.07	−31 46.0	2.817	2.150	17.2	21.0	40 E	3*	34*
11 7	17 18.60	−31 43.3	2.831	2.128	16.4	21.0	37 E	3*	31*
11 12	17 30.39	−31 38.0	2.842	2.106	15.5	20.9	35 E	3*	29*
11 17	17 42.43	−31 29.9	2.851	2.084	14.7	20.9	32 E	3*	26*
11 22	17 54.69	−31 18.6	2.858	2.062	13.8	20.8	30 E	3*	24*
11 27	18 7.14	−31 3.9	2.862	2.040	13.0	20.8	28 E	2*	22*
12 2	18 19.77	−30 45.7	2.865	2.018	12.1	20.7	25 E	2*	19*
12 7	18 32.56	−30 23.6	2.865	1.997	11.2	20.7	23 E	2*	17*
12 12	18 45.49	−29 57.5	2.864	1.975	10.2	20.6	21 E	1*	15*
12 17	18 58.54	−29 27.4	2.860	1.954	9.3	20.6	19 E	1*	13*
12 22	19 11.68	−28 52.9	2.855	1.933	8.4	20.5	17 E	—	10*
12 27	19 24.88	−28 14.1	2.848	1.913	7.5	20.4	15 E	—	8*
1 1	19 38.14	−27 30.9	2.839	1.892	6.5	20.3	13 E	—	7*
1 6	19 51.42	−26 43.1	2.829	1.873	5.6	20.3	11 E	—	5*
1 11	20 4.72	−25 50.9	2.818	1.853	4.8	20.2	9 E	—	3*
1 16	20 18.01	−24 54.1	2.805	1.834	3.9	20.1	7 E	—	1*

360509 2003 OD_3

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	15 52.66	− 5 19.5	1.810	2.499	19.5	21.4	123 W	40	69
4 1	15 53.39	− 4 7.8	1.683	2.469	17.4	21.1	132 W	41	68
4 11	15 51.27	− 2 47.2	1.573	2.439	14.8	20.8	142 W	42	67
4 21	15 46.28	− 1 22.2	1.482	2.409	11.8	20.6	151 W	44	65
5 1	15 38.72	+ 0 0.2	1.413	2.378	9.2	20.3	158 W	45	64
5 6	15 34.19	+ 0 37.9	1.388	2.362	8.4	20.3	160 W	46	63
5 11	15 29.33	+ 1 11.9	1.369	2.346	8.3	20.2	160 W	46	63
5 16	15 24.27	+ 1 41.1	1.357	2.329	8.9	20.2	159 E	47	62
5 21	15 19.17	+ 2 4.7	1.350	2.313	10.1	20.2	156 E	47	62
5 31	15 9.48	+ 2 32.4	1.355	2.280	13.5	20.3	148 E	48	61
6 10	15 1.44	+ 2 32.5	1.380	2.247	17.3	20.5	139 E	48	61
6 20	14 55.88	+ 2 5.8	1.423	2.213	20.7	20.6	130 E	47	62
6 30	14 53.29	+ 1 15.5	1.479	2.179	23.7	20.8	121 E	46*	63
7 10	14 53.80	+ 0 6.1	1.545	2.145	26.0	20.9	112 E	44*	64
7 20	14 57.32	− 1 18.0	1.616	2.111	27.8	21.0	104 E	41*	65
7 30	15 3.66	− 2 52.7	1.691	2.077	29.0	21.1	97 E	38*	67
8 9	15 12.59	− 4 34.6	1.766	2.042	29.8	21.2	90 E	35*	69
8 19	15 23.86	− 6 20.5	1.841	2.008	30.1	21.2	84 E	32*	69*
8 29	15 37.29	− 8 7.8	1.913	1.975	30.1	21.3	78 E	30*	67*
9 8	15 52.69	− 9 54.0	1.982	1.942	29.7	21.3	73 E	28*	63*
9 18	16 9.94	−11 36.6	2.048	1.909	29.2	21.3	68 E	26*	59*
9 28	16 28.91	−13 13.6	2.109	1.878	28.4	21.3	63 E	24*	55*
10 8	16 49.49	−14 42.4	2.166	1.847	27.4	21.3	58 E	23*	50*
10 18	17 11.58	−16 1.0	2.219	1.818	26.2	21.3	54 E	22*	46*
10 28	17 35.08	−17 7.1	2.267	1.790	25.0	21.3	50 E	21*	41*
11 7	17 59.83	−17 58.6	2.312	1.764	23.6	21.3	45 E	20*	36*
11 17	18 25.70	−18 33.8	2.352	1.740	22.1	21.2	42 E	19*	32*
11 27	18 52.52	−18 51.1	2.389	1.718	20.6	21.2	38 E	18*	27*
12 7	19 20.07	−18 49.5	2.422	1.698	19.0	21.1	34 E	17*	23*
12 17	19 48.17	−18 28.4	2.453	1.680	17.3	21.1	30 E	16*	19*
12 27	20 16.61	−17 47.9	2.481	1.666	15.5	21.0	27 E	15*	15*
1 6	20 45.17	−16 48.7	2.507	1.654	13.8	21.0	24 E	13*	12*
1 16	21 13.72	−15 31.9	2.531	1.645	12.0	20.9	20 E	11*	9*

361586 2007 RB_{240}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	15 55.29	−17 4.6	1.592	2.274	22.0	21.4	121 W	28	81
4 1	15 57.06	−17 30.6	1.462	2.245	19.8	21.1	131 W	27	82
4 11	15 55.56	−17 52.9	1.346	2.214	16.7	20.8	141 W	27	82
4 21	15 50.56	−18 11.6	1.247	2.184	12.6	20.4	152 W	27	82
5 1	15 42.21	−18 26.4	1.169	2.153	7.8	20.1	163 W	27	82
5 11	15 31.24	−18 37.6	1.114	2.122	2.2	19.6	175 W	26	83
5 16	15 25.15	−18 41.9	1.096	2.107	0.8	19.5	178 E	26	83
5 21	15 18.93	−18 45.7	1.084	2.091	3.8	19.6	172 E	26	83
5 26	15 12.78	−18 49.3	1.079	2.076	6.8	19.8	166 E	26	83
5 31	15 6.95	−18 53.3	1.079	2.060	9.8	19.9	160 E	26	83
6 5	15 1.64	−18 58.2	1.085	2.045	12.7	20.0	154 E	26	83
6 10	14 56.99	−19 4.4	1.096	2.030	15.4	20.1	148 E	26	83
6 15	14 53.16	−19 12.4	1.112	2.014	17.9	20.2	142 E	26	83
6 20	14 50.23	−19 22.6	1.132	1.999	20.3	20.3	137 E	26	83
6 30	14 47.33	−19 50.8	1.182	1.968	24.4	20.5	127 E	25*	84
7 10	14 48.42	−20 30.1	1.243	1.939	27.6	20.6	118 E	24*	85
7 20	14 53.31	−21 20.0	1.310	1.909	30.1	20.8	110 E	22*	85
7 30	15 1.74	−22 18.8	1.382	1.881	31.8	20.9	102 E	19*	86
8 9	15 13.35	−23 24.1	1.455	1.853	33.0	21.0	96 E	17*	87
8 19	15 27.82	−24 33.0	1.529	1.827	33.6	21.1	90 E	16*	84*
8 29	15 44.92	−25 42.3	1.602	1.801	33.9	21.2	84 E	14*	78*
9 8	16 4.39	−26 48.7	1.672	1.778	33.8	21.3	79 E	13*	73*
9 18	16 26.03	−27 48.9	1.741	1.755	33.4	21.3	74 E	12*	68*
9 28	16 49.65	−28 39.4	1.808	1.735	32.8	21.4	70 E	12*	63*
10 8	17 15.01	−29 17.0	1.872	1.717	32.0	21.4	65 E	12*	59*
10 18	17 41.87	−29 38.5	1.934	1.700	31.0	21.4	61 E	12*	55*
10 28	18 9.95	−29 41.4	1.995	1.687	29.8	21.4	58 E	12*	52*
11 7	18 38.91	−29 23.6	2.053	1.675	28.6	21.4	54 E	12*	48*
11 17	19 8.42	−28 43.8	2.111	1.667	27.2	21.5	51 E	13*	44*
11 27	19 38.15	−27 41.7	2.167	1.660	25.8	21.5	47 E	14*	40*
12 7	20 7.78	−26 17.7	2.222	1.657	24.3	21.5	44 E	15*	36*
12 17	20 37.07	−24 33.2	2.277	1.657	22.7	21.5	40 E	15*	32*
12 27	21 5.80	−22 30.2	2.331	1.659	21.0	21.5	37 E	16*	28*
1 6	21 33.86	−20 11.0	2.385	1.664	19.3	21.5	34 E	16*	24*
1 16	22 1.17	−17 38.6	2.439	1.672	17.6	21.5	31 E	15*	20*

331522 2000 QD_{70}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	15 58.15	− 6 42.2	1.822	2.495	19.9	21.3	122 W	38	71
4 1	16 0.29	− 5 25.3	1.682	2.453	18.0	21.0	131 W	40	69
4 11	15 59.70	− 3 56.4	1.558	2.411	15.6	20.7	140 W	41	68
4 21	15 56.27	− 2 19.4	1.452	2.369	12.7	20.4	149 W	43	66
4 26	15 53.51	− 1 29.6	1.407	2.347	11.3	20.3	153 W	44	65
5 1	15 50.13	− 0 40.4	1.368	2.326	10.1	20.2	156 W	44	65
5 6	15 46.21	+ 0 7.2	1.335	2.304	9.1	20.1	159 W	45	64
5 11	15 41.85	+ 0 52.0	1.308	2.283	8.7	20.0	160 W	46	63
5 16	15 37.18	+ 1 32.8	1.287	2.261	9.1	19.9	159 W	47	62
5 21	15 32.35	+ 2 8.5	1.272	2.240	10.1	19.9	157 E	47	62
5 26	15 27.51	+ 2 38.0	1.263	2.218	11.6	19.9	154 E	48	61
5 31	15 22.84	+ 3 0.5	1.259	2.196	13.4	20.0	150 E	48	61
6 10	15 14.61	+ 3 23.0	1.268	2.153	17.3	20.1	141 E	48	61
6 20	15 8.65	+ 3 15.0	1.294	2.109	21.2	20.2	131 E	48	61
6 30	15 5.65	+ 2 38.7	1.333	2.066	24.5	20.3	123 E	48	61
7 10	15 5.91	+ 1 38.4	1.382	2.023	27.3	20.5	114 E	46*	62
7 20	15 9.41	+ 0 19.3	1.436	1.981	29.5	20.6	107 E	44*	64
7 30	15 16.04	− 1 14.1	1.494	1.940	31.1	20.6	99 E	41*	65
8 9	15 25.57	− 2 57.4	1.553	1.900	32.2	20.7	93 E	38*	67
8 19	15 37.76	− 4 46.8	1.612	1.861	32.9	20.8	87 E	35*	68*
8 29	15 52.43	− 6 39.0	1.670	1.823	33.2	20.8	82 E	33*	68*
9 8	16 9.38	− 8 30.5	1.725	1.788	33.3	20.8	77 E	31*	65*
9 18	16 28.46	−10 18.5	1.779	1.754	33.0	20.9	72 E	29*	62*
9 28	16 49.55	−11 59.7	1.830	1.723	32.6	20.9	68 E	27*	59*
10 8	17 12.49	−13 31.0	1.879	1.695	31.9	20.9	64 E	26*	55*
10 18	17 37.13	−14 49.6	1.927	1.669	31.1	20.9	60 E	25*	51*
10 28	18 3.30	−15 52.6	1.974	1.647	30.2	20.9	56 E	24*	47*
11 7	18 30.78	−16 37.5	2.021	1.629	29.1	20.9	53 E	24*	43*
11 17	18 59.32	−17 2.2	2.067	1.614	27.8	20.9	50 E	23*	39*
11 27	19 28.65	−17 5.4	2.114	1.603	26.5	20.8	46 E	23*	35*
12 7	19 58.46	−16 46.7	2.163	1.597	25.1	20.8	43 E	23*	31*
12 17	20 28.48	−16 6.4	2.212	1.595	23.5	20.8	40 E	22*	27*
12 27	20 58.44	−15 5.7	2.263	1.597	21.9	20.9	37 E	22*	23*
1 6	21 28.11	−13 46.7	2.316	1.604	20.3	20.9	34 E	21*	20*
1 16	21 57.33	−12 11.9	2.371	1.615	18.5	20.9	31 E	20*	17*

501691 2014 TJ_{74}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	16 0.58	−12 42.8	1.443	2.130	23.7	21.4	121 W	32	77
4 1	16 4.19	−12 47.5	1.318	2.100	21.6	21.1	129 W	32	77
4 11	16 4.57	−12 48.4	1.206	2.070	18.5	20.7	139 W	32	77
4 21	16 1.41	−12 47.3	1.110	2.040	14.6	20.4	149 W	32	77
5 1	15 54.71	−12 47.0	1.033	2.010	9.8	20.0	160 W	32	77
5 11	15 45.07	−12 50.4	0.977	1.980	4.8	19.6	171 W	32	77

501691 2014 TJ_{74} *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 16	15 39.48	−12 54.5	0.957	1.965	3.3	19.5	174 W	32	77
5 21	15 33.64	−13 0.7	0.944	1.951	4.3	19.5	172 E	32	77
5 26	15 27.77	−13 9.3	0.936	1.936	6.9	19.6	167 E	32	77
5 31	15 22.12	−13 20.9	0.934	1.922	9.8	19.7	161 E	32	77
6 5	15 16.90	−13 35.6	0.937	1.908	12.7	19.8	156 E	31	78
6 10	15 12.31	−13 53.6	0.945	1.894	15.6	19.9	150 E	31	78
6 20	15 5.57	−14 39.8	0.975	1.866	20.9	20.1	139 E	30	79
6 30	15 2.73	−15 39.6	1.019	1.840	25.3	20.3	129 E	29	80
7 10	15 4.05	−16 51.5	1.074	1.814	28.9	20.5	120 E	28*	81
7 20	15 9.36	−18 12.8	1.136	1.790	31.6	20.7	112 E	25*	82
7 30	15 18.41	−19 40.8	1.203	1.767	33.6	20.8	105 E	23*	84
8 9	15 30.82	−21 12.3	1.272	1.746	35.0	21.0	99 E	21*	85
8 19	15 46.26	−22 43.6	1.344	1.727	35.8	21.1	93 E	19*	86*
8 29	16 4.44	−24 11.5	1.416	1.710	36.2	21.2	88 E	17*	82*
9 8	16 25.06	−25 32.4	1.489	1.695	36.2	21.3	83 E	16*	77*
9 18	16 47.86	−26 42.6	1.561	1.682	35.9	21.4	79 E	15*	73*
9 28	17 12.61	−27 39.0	1.633	1.672	35.3	21.4	74 E	14*	68*
10 8	17 38.97	−28 18.4	1.705	1.664	34.5	21.5	71 E	14*	65*

203217 2001 FX_9

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	16 6.75	−18 0.9	1.099	1.800	29.1	21.4	118 W	27	82
4 1	16 6.81	−17 26.6	1.048	1.843	25.2	21.2	128 W	28	81
4 11	16 2.31	−16 39.7	1.009	1.885	20.3	21.0	139 W	28	81
4 21	15 53.65	−15 42.2	0.984	1.927	14.6	20.8	151 W	29	80
5 1	15 41.89	−14 38.3	0.980	1.967	8.4	20.6	163 W	30	79
5 11	15 28.76	−13 34.5	1.000	2.007	2.9	20.4	174 W	31	78
5 16	15 22.26	−13 5.0	1.018	2.026	3.2	20.5	174 E	32	77
5 21	15 16.12	−12 38.4	1.044	2.046	5.6	20.7	169 E	32	77
5 26	15 10.51	−12 15.4	1.075	2.064	8.3	20.9	163 E	33	76
5 31	15 5.60	−11 56.6	1.112	2.083	10.9	21.1	157 E	33	76
6 5	15 1.49	−11 42.5	1.154	2.101	13.4	21.3	151 E	33	76
6 10	14 58.22	−11 33.0	1.201	2.119	15.6	21.5	146 E	33	76

276111 2002 GM_9

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	16 19.35	−17 1.8	1.101	1.775	30.4	21.4	116 W	28	81
3 27	16 24.18	−18 1.6	1.033	1.752	29.8	21.2	119 W	27	82
4 1	16 28.43	−19 6.9	0.968	1.729	29.0	21.0	123 W	26	83
4 6	16 32.01	−20 18.6	0.905	1.705	28.0	20.8	127 W	25	84
4 11	16 34.82	−21 38.2	0.845	1.682	26.7	20.6	131 W	23	86
4 16	16 36.75	−23 6.7	0.788	1.658	25.2	20.3	135 W	22	87
4 21	16 37.64	−24 45.5	0.734	1.635	23.5	20.1	140 W	20	89
4 26	16 37.35	−26 35.7	0.684	1.612	21.4	19.9	144 W	18	89
5 1	16 35.73	−28 38.0	0.638	1.588	19.2	19.6	149 W	16	87
5 6	16 32.61	−30 52.8	0.597	1.565	17.0	19.4	153 W	14	85
5 11	16 27.83	−33 19.3	0.560	1.542	14.8	19.1	157 W	12	83
5 16	16 21.25	−35 55.7	0.529	1.519	13.2	18.9	160 W	9	80
5 21	16 12.77	−38 38.6	0.502	1.496	12.7	18.7	161 W	6	77
5 26	16 2.42	−41 23.5	0.481	1.473	13.9	18.6	160 E	4	75
5 31	15 50.41	−44 5.0	0.465	1.451	16.4	18.6	156 E	1	72
6 5	15 37.11	−46 37.6	0.454	1.430	19.8	18.7	151 E	—	69
6 10	15 23.07	−48 57.1	0.447	1.409	23.7	18.7	146 E	—	67
6 12	15 17.38	−49 48.5	0.445	1.400	25.3	18.7	144 E	—	66
6 14	15 11.74	−50 37.2	0.444	1.392	26.9	18.8	142 E	—	65
6 16	15 6.19	−51 23.2	0.444	1.384	28.4	18.8	140 E	—	65
6 18	15 0.77	−52 6.5	0.444	1.376	30.0	18.8	137 E	—	64
6 20	14 55.55	−52 47.2	0.445	1.368	31.5	18.9	135 E	—	63
6 22	14 50.57	−53 25.5	0.446	1.361	33.0	18.9	133 E	—	63
6 24	14 45.87	−54 1.6	0.447	1.353	34.5	18.9	131 E	—	62
6 26	14 41.49	−54 35.6	0.449	1.346	35.9	19.0	129 E	—	61
6 28	14 37.46	−55 7.8	0.451	1.338	37.2	19.0	127 E	—	61
6 30	14 33.82	−55 38.5	0.453	1.331	38.5	19.0	125 E	—	60
7 5	14 26.53	−56 49.6	0.459	1.314	41.5	19.1	121 E	—	59
7 10	14 22.01	−57 55.3	0.467	1.298	44.2	19.2	117 E	—	58
7 15	14 20.42	−58 58.1	0.474	1.283	46.5	19.3	114 E	—	57
7 20	14 21.93	−59 59.7	0.481	1.269	48.5	19.3	111 E	—	56
7 25	14 26.66	−61 1.4	0.488	1.257	50.2	19.4	108 E	—	55
7 30	14 34.74	−62 3.6	0.495	1.246	51.6	19.5	106 E	—	54
8 4	14 46.31	−63 5.3	0.501	1.236	52.7	19.5	104 E	—	53*
8 9	15 1.58	−64 4.6	0.506	1.228	53.6	19.5	103 E	—	52*
8 14	15 20.81	−64 58.6	0.511	1.222	54.3	19.6	102 E	—	51*
8 19	15 44.18	−65 43.5	0.515	1.217	54.8	19.6	101 E	—	50*
8 24	16 11.71	−66 14.5	0.519	1.215	55.0	19.6	100 E	—	50*
8 29	16 42.96	−66 26.0	0.522	1.213	55.1	19.6	100 E	—	50
8 31	16 56.32	−66 23.8	0.524	1.214	55.1	19.6	100 E	—	50
9 2	17 10.05	−66 17.2	0.525	1.214	55.0	19.6	100 E	—	50
9 4	17 24.06	−66 5.9	0.527	1.214	54.9	19.6	100 E	—	50
9 6	17 38.26	−65 49.6	0.528	1.215	54.8	19.6	100 E	—	50
9 8	17 52.53	−65 28.0	0.530	1.216	54.7	19.6	100 E	—	51

276111 2002 GM_9 *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 10	18 6.78	−65 1.1	0.531	1.218	54.5	19.6	100 E	—	51
9 12	18 20.90	−64 28.8	0.533	1.220	54.3	19.6	100 E	—	52
9 14	18 34.81	−63 51.0	0.536	1.222	54.1	19.7	100 E	—	52
9 16	18 48.44	−63 7.9	0.538	1.224	53.9	19.7	101 E	—	53
9 18	19 1.71	−62 19.5	0.540	1.226	53.6	19.7	101 E	—	54
9 20	19 14.57	−61 26.1	0.543	1.229	53.3	19.7	101 E	—	55
9 22	19 26.99	−60 27.8	0.546	1.232	53.1	19.7	101 E	—	56
9 24	19 38.93	−59 25.0	0.550	1.235	52.7	19.7	101 E	—	57
9 26	19 50.40	−58 17.9	0.553	1.239	52.4	19.7	102 E	—	58
9 28	20 1.37	−57 6.9	0.557	1.243	52.1	19.7	102 E	—	59
10 3	20 26.71	−53 54.1	0.569	1.253	51.2	19.8	102 E	—	62
10 8	20 49.27	−50 23.8	0.584	1.265	50.3	19.8	103 E	—	66
10 13	21 9.41	−46 41.2	0.601	1.279	49.4	19.9	103 E	—	69
10 18	21 27.54	−42 51.3	0.622	1.293	48.5	19.9	104 E	2	73
10 23	21 44.02	−38 58.6	0.647	1.309	47.6	20.0	104 E	6	77
10 28	21 59.14	−35 7.0	0.675	1.326	46.7	20.1	104 E	10	81
11 2	22 13.15	−31 19.6	0.707	1.344	45.9	20.2	103 E	14	85
11 7	22 26.25	−27 38.7	0.742	1.363	45.2	20.4	103 E	17	88
11 12	22 38.64	−24 6.1	0.782	1.382	44.5	20.5	102 E	21	88
11 17	22 50.47	−20 42.7	0.824	1.402	43.8	20.6	101 E	24	85
11 22	23 1.84	−17 29.1	0.870	1.423	43.1	20.7	100 E	28	81
11 27	23 12.85	−14 25.5	0.920	1.445	42.5	20.9	99 E	31	78*
12 2	23 23.58	−11 31.8	0.972	1.467	41.8	21.0	97 E	33	74*
12 7	23 34.07	− 8 47.6	1.026	1.489	41.2	21.1	95 E	36	71*
12 12	23 44.38	− 6 12.4	1.084	1.512	40.5	21.3	94 E	39	67*
12 17	23 54.57	− 3 45.7	1.143	1.535	39.9	21.4	92 E	41	63*

494706 2005 GL_9

3 22	16 26.26	−20 36.9	2.089	2.648	20.2	21.3	113 W	24	85
4 1	16 24.96	−20 1.8	1.871	2.564	18.9	21.0	124 W	25	84
4 11	16 20.01	−19 10.8	1.666	2.476	16.7	20.6	135 W	26	83
4 21	16 10.68	−17 59.2	1.479	2.385	13.3	20.1	147 W	27	82
5 1	15 56.35	−16 21.4	1.316	2.289	8.6	19.6	160 W	29	80
5 11	15 36.96	−14 13.2	1.182	2.188	3.2	19.0	173 W	31	78
5 16	15 25.57	−12 57.4	1.128	2.136	3.0	18.8	174 E	32	77
5 21	15 13.28	−11 34.7	1.083	2.082	6.1	18.8	167 E	33	76
5 26	15 0.41	−10 6.8	1.047	2.028	10.0	18.9	160 E	35	74
5 31	14 47.28	− 8 35.7	1.020	1.971	14.2	18.9	151 E	36	73
6 5	14 34.27	− 7 4.1	1.002	1.914	18.5	19.0	143 E	38	71
6 10	14 21.70	− 5 34.4	0.991	1.854	22.7	19.0	135 E	39	70
6 15	14 9.87	− 4 9.2	0.987	1.793	26.8	19.0	127 E	41	68
6 20	13 59.02	− 2 50.3	0.988	1.731	30.8	19.1	119 E	42*	67
6 25	13 49.29	− 1 38.9	0.992	1.666	34.4	19.1	112 E	42*	66
6 30	13 40.77	− 0 35.6	1.000	1.599	37.9	19.1	105 E	41*	65
7 10	13 27.28	+ 1 7.5	1.016	1.460	44.1	19.2	92 E	38*	63
7 20	13 18.01	+ 2 23.8	1.027	1.310	49.8	19.1	80 E	33*	61*
7 30	13 11.93	+ 3 21.8	1.023	1.149	55.4	19.0	69 E	29*	55*
8 4	13 9.58	+ 3 47.3	1.012	1.063	58.5	18.9	63 E	27*	52*
8 9	13 7.35	+ 4 12.6	0.996	0.973	62.0	18.7	58 E	25*	47*
8 14	13 4.82	+ 4 39.8	0.972	0.879	66.2	18.6	52 E	23*	43*
8 19	13 1.41	+ 5 11.3	0.940	0.779	71.4	18.4	47 E	21*	37*
8 24	12 56.12	+ 5 50.4	0.900	0.675	78.5	18.3	41 E	19*	32*
8 29	12 47.22	+ 6 41.2	0.852	0.564	88.6	18.1	34 E	16*	25*
9 3	12 31.51	+ 7 46.5	0.801	0.448	104.2	18.2	25 E	12*	17*
9 8	12 3.60	+ 8 55.5	0.762	0.330	130.4	19.4	14 E	6*	5*
9 9	11 56.07	+ 9 5.5	0.758	0.308	137.4	20.0	12 E	5*	3*
9 10	11 47.91	+ 9 12.0	0.758	0.287	144.9	20.9	9 E	3*	—
9 11	11 39.23	+ 9 13.8	0.762	0.268	152.3	22.0	7 E	1*	—
9 12	11 30.25	+ 9 9.2	0.770	0.251	157.6	23.2	5 E	—	—

339280 2004 XQ_{14}

3 22	16 45.56	+ 1 30.4	2.411	2.907	18.8	21.5	110 W	47	62
4 1	16 46.90	+ 2 2.3	2.252	2.867	17.8	21.3	119 W	47	62
4 11	16 45.74	+ 2 34.4	2.104	2.826	16.4	21.1	127 W	48	61
4 21	16 41.89	+ 3 2.7	1.971	2.784	14.5	20.8	136 W	48	61
5 1	16 35.26	+ 3 22.2	1.856	2.741	12.3	20.6	145 W	48	61
5 11	16 26.11	+ 3 26.9	1.764	2.697	10.1	20.3	152 W	48	61
5 21	16 14.96	+ 3 11.8	1.696	2.653	8.9	20.2	156 W	48	61
5 31	16 2.73	+ 2 32.7	1.655	2.607	9.6	20.1	155 E	48	61
6 10	15 50.57	+ 1 28.4	1.641	2.561	12.0	20.1	148 E	46	63
6 20	15 39.60	+ 0 0.7	1.652	2.514	15.2	20.2	140 E	45	64
6 30	15 30.78	− 1 46.4	1.685	2.466	18.4	20.3	130 E	43	66
7 10	15 24.70	− 3 48.0	1.735	2.418	21.2	20.5	121 E	41*	68
7 20	15 21.64	− 5 59.2	1.798	2.369	23.5	20.6	112 E	38*	70
7 30	15 21.64	− 8 16.3	1.870	2.319	25.2	20.6	103 E	34*	72
8 9	15 24.56	−10 36.3	1.946	2.269	26.4	20.7	95 E	30*	75
8 19	15 30.21	−12 57.0	2.024	2.219	27.1	20.8	87 E	27*	76*
8 29	15 38.43	−15 16.9	2.100	2.168	27.3	20.8	80 E	23*	72*

339280 2004 XQ_{14} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 8	15 49.02	−17 34.6	2.172	2.118	27.1	20.8	73 E	20*	67*
9 18	16 1.85	−19 49.0	2.239	2.067	26.6	20.8	67 E	18*	61*
9 28	16 16.84	−21 58.9	2.299	2.016	25.8	20.8	61 E	15*	55*
10 8	16 33.92	−24 2.7	2.351	1.966	24.8	20.8	56 E	13*	50*
10 18	16 53.06	−25 58.9	2.394	1.917	23.6	20.7	50 E	11*	44*
10 28	17 14.27	−27 45.6	2.429	1.868	22.2	20.7	45 E	9*	39*
11 7	17 37.51	−29 20.6	2.454	1.821	20.8	20.6	41 E	7*	35*
11 17	18 2.78	−30 41.2	2.471	1.775	19.3	20.5	36 E	6*	30*
11 27	18 30.02	−31 44.8	2.480	1.731	17.9	20.4	33 E	4*	26*
12 7	18 59.09	−32 28.3	2.481	1.690	16.5	20.3	29 E	3*	23*
12 17	19 29.84	−32 48.6	2.477	1.651	15.2	20.2	26 E	1*	20*
12 27	20 2.00	−32 43.0	2.467	1.615	14.1	20.1	24 E	—	18*
1 6	20 35.20	−32 9.3	2.455	1.583	13.2	20.0	22 E	—	16*
1 16	21 9.09	−31 6.2	2.440	1.555	12.6	19.9	20 E	—	14*

162473 2000 LA_{16}

3 22	16 46.27	−14 59.4	1.677	2.216	25.1	21.3	109 W	30	79
4 1	16 53.85	−14 33.5	1.534	2.182	24.0	21.0	117 W	30	79
4 11	16 58.90	−13 59.3	1.401	2.147	22.3	20.8	126 W	31	78
4 21	17 0.98	−13 18.2	1.279	2.111	19.7	20.4	135 W	32	77
5 1	16 59.74	−12 32.4	1.171	2.075	16.4	20.1	144 W	32	77
5 11	16 55.10	−11 45.1	1.081	2.040	12.3	19.8	154 W	33	76
5 16	16 51.56	−11 22.2	1.044	2.022	10.2	19.6	159 W	34	75
5 21	16 47.32	−11 0.6	1.012	2.004	8.1	19.4	164 W	34	75
5 26	16 42.49	−10 41.1	0.985	1.986	6.5	19.3	167 W	34	75
5 31	16 37.25	−10 24.4	0.964	1.968	5.9	19.2	168 W	35	74
6 5	16 31.80	−10 11.2	0.949	1.950	6.9	19.1	167 E	35	74
6 10	16 26.34	−10 2.2	0.939	1.933	8.9	19.2	163 E	35	74
6 15	16 21.08	− 9 57.8	0.935	1.915	11.4	19.3	158 E	35	74
6 20	16 16.23	− 9 58.5	0.936	1.897	14.1	19.3	153 E	35	74
6 30	16 8.52	−10 15.5	0.951	1.863	19.4	19.5	142 E	35	74
7 10	16 4.31	−10 52.9	0.982	1.829	24.2	19.7	133 E	34	75
7 20	16 4.09	−11 47.7	1.024	1.796	28.2	19.9	123 E	33*	76
7 30	16 8.00	−12 56.1	1.074	1.765	31.4	20.0	115 E	32*	77
8 9	16 15.82	−14 13.6	1.130	1.735	33.8	20.2	108 E	30*	78
8 19	16 27.23	−15 35.8	1.189	1.706	35.6	20.3	101 E	28*	80
8 29	16 41.93	−16 58.2	1.250	1.679	36.8	20.4	95 E	26*	81
9 8	16 59.55	−18 16.7	1.311	1.655	37.5	20.5	90 E	25*	81*
9 18	17 19.79	−19 27.3	1.373	1.633	37.8	20.6	85 E	24*	78*
9 28	17 42.35	−20 26.2	1.435	1.614	37.8	20.6	81 E	23*	74*
10 8	18 6.91	−21 9.9	1.497	1.598	37.5	20.7	77 E	23*	70*
10 18	18 33.13	−21 35.4	1.559	1.585	36.9	20.8	73 E	22*	66*
10 28	19 0.69	−21 40.4	1.622	1.575	36.2	20.8	69 E	22*	62*
11 7	19 29.19	−21 23.2	1.685	1.568	35.2	20.9	66 E	23*	57*
11 17	19 58.29	−20 43.3	1.750	1.565	34.1	20.9	63 E	23*	53*
11 27	20 27.64	−19 41.0	1.816	1.566	32.9	21.0	60 E	24*	49*
12 7	20 56.94	−18 17.5	1.883	1.570	31.5	21.0	56 E	25*	44*
12 17	21 25.96	−16 35.0	1.953	1.578	30.0	21.0	53 E	26*	40*
12 27	21 54.53	−14 36.1	2.024	1.589	28.5	21.1	50 E	27*	36*
1 6	22 22.53	−12 23.8	2.098	1.604	26.8	21.1	47 E	28*	32*
1 16	22 49.91	−10 1.3	2.173	1.621	25.1	21.2	44 E	28*	28*

500791 2013 EQ_{123}

3 22	16 47.68	−23 39.4	1.245	1.820	31.4	21.3	108 W	21	88
4 1	17 2.05	−24 55.2	1.132	1.795	30.4	21.1	115 W	20	89
4 11	17 14.31	−26 13.2	1.028	1.771	28.8	20.8	121 W	19	90
4 21	17 23.90	−27 35.8	0.934	1.750	26.5	20.5	129 W	17	88
5 1	17 30.12	−29 4.2	0.851	1.730	23.4	20.1	137 W	16	87
5 11	17 32.46	−30 38.1	0.781	1.712	19.4	19.8	146 W	14	85
5 16	17 32.06	−31 26.1	0.751	1.705	17.1	19.6	150 W	14	85
5 21	17 30.59	−32 13.6	0.725	1.697	14.7	19.5	155 W	13	84
5 26	17 28.13	−32 59.6	0.704	1.690	12.2	19.3	159 W	12	83
5 31	17 24.80	−33 42.9	0.687	1.684	9.9	19.2	163 W	11	82
6 5	17 20.80	−34 22.1	0.675	1.679	8.0	19.0	167 W	11	82
6 10	17 16.36	−34 56.3	0.667	1.674	7.2	19.0	168 W	10	81
6 15	17 11.75	−35 24.4	0.664	1.669	7.9	19.0	167 E	10	81
6 20	17 7.28	−35 46.0	0.666	1.666	9.7	19.1	164 E	9	80
6 25	17 3.27	−36 0.9	0.671	1.663	12.1	19.2	160 E	9	80
6 30	17 0.00	−36 9.8	0.682	1.661	14.7	19.3	155 E	9	80
7 5	16 57.70	−36 13.4	0.696	1.659	17.3	19.4	151 E	9	80
7 10	16 56.50	−36 12.5	0.714	1.659	19.8	19.6	146 E	9	80
7 15	16 56.49	−36 8.0	0.735	1.659	22.1	19.7	142 E	9	80
7 20	16 57.71	−36 0.6	0.759	1.659	24.3	19.8	138 E	9	80
7 25	17 0.17	−35 51.1	0.787	1.661	26.2	20.0	134 E	9	80
7 30	17 3.82	−35 40.0	0.817	1.663	27.9	20.1	130 E	9	80
8 4	17 8.59	−35 27.6	0.849	1.665	29.3	20.2	126 E	10	81
8 9	17 14.39	−35 14.1	0.884	1.669	30.6	20.4	123 E	10	81
8 14	17 21.11	−34 59.3	0.920	1.673	31.7	20.5	120 E	10	81
8 19	17 28.68	−34 43.3	0.959	1.678	32.6	20.6	117 E	10	81
8 24	17 37.01	−34 25.8	1.000	1.683	33.4	20.7	114 E	11	82

500791 2013 EQ_{123} *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 29	17 46.00	−34 6.8	1.042	1.689	34.0	20.8	111 E	11	82
9 3	17 55.56	−33 46.0	1.086	1.696	34.4	21.0	108 E	11	82
9 8	18 5.61	−33 23.2	1.132	1.703	34.8	21.1	105 E	12	83
9 13	18 16.07	−32 58.1	1.179	1.711	35.0	21.2	103 E	12	83
9 18	18 26.88	−32 30.7	1.227	1.720	35.1	21.3	100 E	12	83
9 23	18 37.98	−32 0.8	1.277	1.729	35.1	21.4	98 E	13	84
9 28	18 49.30	−31 28.2	1.328	1.738	35.0	21.5	96 E	14	85

357058 2001 OG_{25}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	16 49.38	− 3 50.3	0.631	1.343	44.5	21.4	109 W	41	68
4 1	17 18.90	− 0 57.0	0.557	1.306	45.7	21.1	111 W	44	65
4 11	17 49.57	+ 2 37.4	0.493	1.269	47.2	20.9	112 W	48	61
4 21	18 21.62	+ 6 48.0	0.439	1.234	49.3	20.6	111 W	52	57
5 1	18 55.27	+11 23.3	0.394	1.201	52.0	20.4	110 W	56*	53
5 6	19 12.84	+13 44.9	0.375	1.185	53.6	20.3	109 W	59*	50
5 11	19 30.99	+16 5.8	0.358	1.170	55.3	20.2	108 W	61*	48
5 16	19 49.77	+18 23.5	0.342	1.156	57.0	20.1	106 W	63*	46
5 21	20 9.21	+20 35.1	0.329	1.142	58.8	20.1	105 W	65*	43
5 26	20 29.31	+22 37.4	0.317	1.130	60.6	20.0	104 W	67*	41
5 31	20 50.13	+24 27.4	0.306	1.119	62.4	20.0	102 W	68*	40
6 5	21 11.65	+26 2.5	0.297	1.109	64.0	20.0	101 W	69*	38
6 10	21 33.85	+27 20.5	0.288	1.100	65.5	19.9	99 W	70*	37
6 15	21 56.60	+28 19.5	0.281	1.093	66.9	19.9	98 W	71*	36
6 20	22 19.72	+28 57.6	0.274	1.087	67.9	19.9	98 W	71*	35
6 25	22 43.02	+29 13.1	0.268	1.082	68.8	19.8	97 W	71*	35
6 30	23 6.26	+29 5.1	0.263	1.080	69.3	19.8	97 W	71*	35
7 5	23 29.21	+28 33.4	0.259	1.078	69.4	19.8	97 W	70*	35
7 10	23 51.61	+27 38.7	0.255	1.079	69.2	19.7	97 W	70*	36
7 15	0 13.17	+26 21.7	0.252	1.081	68.7	19.7	98 W	69*	38
7 20	0 33.62	+24 43.3	0.249	1.084	67.8	19.6	99 W	68*	39
7 25	0 52.73	+22 44.8	0.247	1.089	66.4	19.6	101 W	66*	41
7 30	1 10.36	+20 27.8	0.245	1.095	64.7	19.5	103 W	65*	44
8 4	1 26.38	+17 54.6	0.244	1.103	62.6	19.5	105 W	63*	46
8 9	1 40.68	+15 7.4	0.244	1.113	60.2	19.4	108 W	60*	49
8 14	1 53.14	+12 7.9	0.244	1.123	57.5	19.4	111 W	57	52
8 19	2 3.65	+ 8 58.3	0.245	1.135	54.4	19.3	114 W	54	55
8 24	2 12.16	+ 5 41.0	0.246	1.147	51.1	19.2	118 W	51	58
8 29	2 18.64	+ 2 19.2	0.249	1.161	47.5	19.2	122 W	47	62
9 3	2 23.09	− 1 3.7	0.253	1.176	43.8	19.2	126 W	44	65
9 8	2 25.52	− 4 23.7	0.258	1.191	40.0	19.1	130 W	41	68
9 13	2 25.94	− 7 36.8	0.264	1.207	36.3	19.1	135 W	37	72
9 18	2 24.46	−10 38.3	0.273	1.224	32.7	19.1	139 W	34	75
9 23	2 21.28	−13 23.0	0.284	1.241	29.4	19.1	143 W	32	77
9 28	2 16.71	−15 46.5	0.297	1.258	26.6	19.2	146 W	29	80
10 3	2 11.10	−17 45.6	0.312	1.276	24.4	19.2	148 W	27	82
10 8	2 4.85	−19 18.3	0.330	1.294	23.1	19.3	149 W	26	83
10 13	1 58.34	−20 24.1	0.351	1.313	22.5	19.5	150 W	25	84
10 18	1 52.00	−21 3.5	0.374	1.331	22.7	19.7	149 W	24	85
10 23	1 46.18	−21 18.2	0.401	1.350	23.5	19.9	147 E	24	85
10 28	1 41.19	−21 10.9	0.430	1.368	24.6	20.1	145 E	24	85
11 2	1 37.18	−20 45.0	0.462	1.387	26.0	20.3	142 E	24	85
11 7	1 34.23	−20 3.5	0.496	1.405	27.4	20.5	139 E	25	84
11 12	1 32.37	−19 9.5	0.533	1.423	28.8	20.8	136 E	26	83
11 17	1 31.60	−18 5.4	0.572	1.441	30.2	21.0	133 E	27	82
11 22	1 31.88	−16 53.4	0.614	1.459	31.4	21.2	130 E	28	81
11 27	1 33.15	−15 35.7	0.658	1.476	32.5	21.4	126 E	29	80

501621 2014 SG_{144}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	16 50.31	−16 47.1	1.186	1.772	32.3	21.5	108 W	28	81
4 1	17 5.20	−16 41.1	1.080	1.749	31.3	21.2	114 W	28	81
4 11	17 17.85	−16 26.6	0.981	1.728	29.7	20.9	121 W	29	80
4 21	17 27.73	−16 6.1	0.892	1.709	27.4	20.6	129 W	29	80
5 1	17 34.25	−15 43.3	0.812	1.692	24.2	20.3	137 W	29	80
5 11	17 37.04	−15 22.6	0.745	1.677	20.1	20.0	145 W	30	79
5 21	17 35.94	−15 8.4	0.692	1.664	15.1	19.6	155 W	30	79
5 31	17 31.32	−15 5.3	0.654	1.654	9.5	19.3	164 W	30	79
6 5	17 28.04	−15 9.1	0.642	1.649	6.8	19.1	169 W	30	79
6 10	17 24.36	−15 16.6	0.634	1.646	5.0	19.0	172 W	30	79
6 15	17 20.52	−15 28.0	0.631	1.643	5.2	19.0	172 E	30	79
6 20	17 16.75	−15 43.3	0.632	1.640	7.3	19.1	168 E	29	80
6 25	17 13.33	−16 2.3	0.638	1.639	10.1	19.2	164 E	29	80
6 30	17 10.49	−16 24.6	0.648	1.638	13.0	19.4	159 E	29	80
7 5	17 8.41	−16 49.8	0.662	1.637	15.9	19.5	154 E	28	81
7 10	17 7.23	−17 17.5	0.680	1.638	18.7	19.7	149 E	28	81
7 20	17 7.86	−18 17.8	0.727	1.640	23.5	20.0	140 E	27	82
7 30	17 12.69	−19 21.2	0.785	1.646	27.4	20.3	132 E	26	83
8 9	17 21.51	−20 23.2	0.854	1.654	30.4	20.6	124 E	25	84
8 19	17 33.81	−21 19.8	0.932	1.664	32.6	20.8	118 E	24	85
8 29	17 49.08	−22 7.6	1.017	1.677	34.0	21.1	112 E	23	86
9 8	18 6.76	−22 43.8	1.109	1.692	34.9	21.3	106 E	22	87

151703 2003 BU_{21}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	16 56.72	−23 51.6	2.810	3.230	17.3	21.5	106 W	21	88
4 1	16 58.58	−23 45.0	2.660	3.219	16.3	21.3	115 W	21	88
4 11	16 58.09	−23 33.6	2.521	3.208	14.7	21.2	125 W	21	88
4 21	16 55.16	−23 16.9	2.396	3.196	12.6	21.0	136 W	22	87
5 1	16 49.81	−22 54.4	2.290	3.182	9.9	20.8	147 W	22	87
5 11	16 42.35	−22 25.9	2.207	3.168	6.7	20.5	158 W	23	86
5 21	16 33.28	−21 51.5	2.151	3.153	3.1	20.3	170 W	23	86
5 26	16 28.37	−21 32.5	2.134	3.145	1.2	20.1	176 W	23	86
5 31	16 23.38	−21 12.7	2.124	3.137	0.7	20.0	178 E	24	85
6 5	16 18.41	−20 52.3	2.121	3.129	2.6	20.2	172 E	24	85
6 10	16 13.58	−20 31.8	2.126	3.121	4.6	20.3	166 E	24	85
6 15	16 9.00	−20 11.6	2.138	3.112	6.4	20.4	160 E	25	84
6 20	16 4.75	−19 52.0	2.156	3.103	8.2	20.5	154 E	25	84
6 30	15 57.62	−19 16.7	2.212	3.084	11.5	20.7	143 E	26	83
7 10	15 52.66	−18 48.4	2.289	3.065	14.3	20.8	132 E	26	83
7 20	15 50.09	−18 28.6	2.382	3.044	16.5	21.0	122 E	26*	82
7 30	15 49.94	−18 17.8	2.488	3.023	18.1	21.1	112 E	26*	82
8 9	15 52.11	−18 15.4	2.602	3.000	19.2	21.2	103 E	25*	82
8 19	15 56.41	−18 20.5	2.720	2.977	19.8	21.3	95 E	24*	82
8 29	16 2.68	−18 31.5	2.838	2.953	20.0	21.4	86 E	22*	79*
9 8	16 10.69	−18 46.9	2.954	2.928	19.7	21.5	79 E	21*	72*

253586 2003 TX_7

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	17 7.20	− 8 25.0	0.835	1.452	41.6	21.3	105 W	37	72
3 27	17 11.92	− 4 44.6	0.808	1.467	40.3	21.3	108 W	40	69
4 1	17 15.47	− 0 50.4	0.785	1.481	38.8	21.2	112 W	44	65
4 6	17 17.78	+ 3 14.9	0.766	1.496	37.3	21.1	115 W	48	61
4 11	17 18.81	+ 7 27.9	0.752	1.510	35.8	21.0	118 W	52	57
4 16	17 18.49	+11 44.3	0.742	1.524	34.4	21.0	121 W	57	52
4 21	17 16.77	+15 58.5	0.738	1.537	33.2	21.0	123 W	61	48
4 26	17 13.65	+20 4.7	0.739	1.550	32.3	21.0	125 W	65	44
5 1	17 9.18	+23 56.9	0.745	1.563	31.6	21.0	126 W	69	40
5 6	17 3.46	+27 29.6	0.757	1.576	31.3	21.0	126 W	72	37
5 11	16 56.66	+30 38.8	0.773	1.588	31.2	21.1	125 W	76	33
5 16	16 48.98	+33 21.6	0.793	1.600	31.4	21.2	124 W	78	31
5 21	16 40.71	+35 36.3	0.818	1.611	31.8	21.2	123 W	81	28
5 26	16 32.18	+37 22.4	0.845	1.622	32.3	21.3	121 W	82	27
5 31	16 23.74	+38 41.1	0.875	1.633	32.8	21.5	119 E	84	25
6 5	16 15.71	+39 34.2	0.908	1.643	33.3	21.6	117 E	85	24
6 10	16 8.36	+40 4.3	0.942	1.652	33.8	21.7	115 E	85	24
6 15	16 1.90	+40 14.0	0.978	1.662	34.3	21.8	113 E	85	24
6 20	15 56.47	+40 5.9	1.014	1.671	34.7	21.9	111 E	85	24
6 25	15 52.18	+39 42.8	1.051	1.679	35.0	22.0	109 E	85	24

250436 2003 WT_{137}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	17 14.36	−20 41.4	2.232	2.630	21.7	21.4	102 W	24	85
4 1	17 20.29	−20 49.3	2.076	2.603	21.0	21.2	111 W	24	85
4 11	17 23.87	−20 55.3	1.927	2.575	19.8	21.0	120 W	24	85
4 21	17 24.73	−21 0.2	1.788	2.546	17.8	20.7	129 W	24	85
5 1	17 22.58	−21 4.6	1.664	2.517	15.1	20.4	139 W	24	85
5 11	17 17.34	−21 8.4	1.558	2.486	11.6	20.1	150 W	24	85
5 21	17 9.18	−21 11.2	1.473	2.455	7.4	19.8	162 W	24	85
5 31	16 58.72	−21 12.2	1.413	2.424	2.6	19.5	174 W	24	85
6 5	16 52.97	−21 12.1	1.393	2.408	0.6	19.2	179 W	24	85
6 10	16 47.07	−21 11.6	1.380	2.391	2.7	19.4	174 E	24	85
6 15	16 41.21	−21 10.9	1.373	2.375	5.3	19.5	168 E	24	85
6 20	16 35.56	−21 10.2	1.373	2.358	7.9	19.6	161 E	24	85
6 25	16 30.30	−21 9.8	1.378	2.342	10.4	19.7	156 E	24	85
6 30	16 25.59	−21 10.1	1.390	2.325	12.8	19.8	150 E	24	85
7 5	16 21.54	−21 11.4	1.407	2.308	15.0	19.9	144 E	24	85
7 10	16 18.25	−21 13.9	1.428	2.291	17.1	20.0	138 E	24	85
7 20	16 14.18	−21 23.6	1.484	2.257	20.8	20.1	128 E	24	85
7 30	16 13.63	−21 40.3	1.552	2.222	23.7	20.3	118 E	23*	86
8 9	16 16.54	−22 3.9	1.627	2.187	25.9	20.4	110 E	22*	86
8 19	16 22.68	−22 33.0	1.708	2.151	27.5	20.6	101 E	21*	87
8 29	16 31.79	−23 5.9	1.791	2.116	28.4	20.6	94 E	20*	87*
9 8	16 43.56	−23 40.4	1.873	2.080	28.9	20.7	87 E	19*	81*
9 18	16 57.73	−24 14.0	1.953	2.045	29.0	20.8	81 E	18*	75*
9 28	17 14.08	−24 44.2	2.030	2.010	28.7	20.8	75 E	17*	69*
10 8	17 32.36	−25 8.7	2.102	1.975	28.2	20.8	69 E	17*	63*
10 18	17 52.37	−25 24.9	2.168	1.941	27.4	20.8	64 E	16*	57*
10 28	18 13.93	−25 30.6	2.229	1.907	26.3	20.8	58 E	16*	52*
11 7	18 36.81	−25 23.6	2.285	1.875	25.2	20.8	54 E	16*	47*
11 17	19 0.82	−25 2.3	2.334	1.843	23.9	20.8	49 E	16*	41*
11 27	19 25.75	−24 25.1	2.378	1.813	22.5	20.7	45 E	16*	36*
12 7	19 51.39	−23 31.1	2.416	1.784	21.0	20.7	40 E	16*	31*
12 17	20 17.55	−22 19.7	2.449	1.757	19.4	20.6	36 E	16*	27*
12 27	20 44.03	−20 50.9	2.477	1.732	17.8	20.6	33 E	15*	22*
1 6	21 10.68	−19 5.2	2.502	1.708	16.2	20.5	29 E	14*	18*
1 16	21 37.38	−17 3.8	2.523	1.688	14.5	20.5	25 E	13*	15*

218609 2005 OZ_3

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	17 17.35	−11 50.6	2.743	3.107	18.3	21.5	102 W	33	76
4 1	17 20.65	−11 30.4	2.584	3.084	17.6	21.3	111 W	33	76
4 11	17 21.80	−11 8.0	2.432	3.061	16.5	21.1	120 W	34	75
4 21	17 20.61	−10 44.7	2.293	3.036	14.7	20.9	130 W	34	75
5 1	17 16.96	−10 22.4	2.169	3.011	12.4	20.7	140 W	35	74
5 11	17 10.93	−10 3.1	2.066	2.985	9.7	20.5	150 W	35	74
5 21	17 2.82	− 9 49.0	1.986	2.957	6.7	20.2	160 W	35	74
5 31	16 53.20	− 9 42.3	1.933	2.929	4.5	20.1	167 W	35	74
6 10	16 42.92	− 9 44.8	1.908	2.900	5.2	20.0	165 E	35	74
6 20	16 32.91	− 9 57.5	1.911	2.870	8.2	20.2	156 E	35	74
6 30	16 24.10	−10 20.9	1.940	2.839	11.6	20.3	146 E	35	74
7 10	16 17.23	−10 54.3	1.991	2.807	14.7	20.5	135 E	34	75
7 20	16 12.75	−11 36.5	2.060	2.775	17.4	20.6	125 E	33	76
7 30	16 10.90	−12 26.2	2.143	2.741	19.5	20.7	116 E	32*	76
8 9	16 11.67	−13 21.6	2.235	2.707	21.0	20.8	107 E	31*	77
8 19	16 14.96	−14 20.8	2.333	2.672	22.0	20.9	98 E	29*	78
8 29	16 20.60	−15 22.4	2.433	2.636	22.5	21.0	90 E	27*	79*
9 8	16 28.39	−16 24.6	2.531	2.599	22.6	21.1	82 E	25*	74*
9 18	16 38.15	−17 26.0	2.626	2.561	22.3	21.1	75 E	23*	68*
9 28	16 49.69	−18 25.1	2.715	2.523	21.7	21.1	68 E	21*	61*
10 8	17 2.86	−19 20.6	2.797	2.484	20.7	21.1	62 E	20*	55*
10 18	17 17.52	−20 11.2	2.871	2.445	19.6	21.1	55 E	18*	48*
10 28	17 33.55	−20 55.5	2.934	2.404	18.2	21.1	49 E	17*	42*
11 7	17 50.82	−21 32.4	2.988	2.364	16.7	21.0	43 E	16*	36*
11 17	18 9.23	−22 0.7	3.030	2.323	15.0	21.0	37 E	14*	29*
11 27	18 28.68	−22 19.3	3.060	2.281	13.2	20.9	32 E	12*	23*
12 7	18 49.04	−22 27.4	3.080	2.239	11.2	20.8	26 E	10*	18*
12 17	19 10.24	−22 24.0	3.087	2.197	9.2	20.7	21 E	8*	12*
12 27	19 32.14	−22 8.6	3.084	2.155	7.2	20.5	16 E	5*	7*
1 6	19 54.66	−21 40.7	3.070	2.112	5.1	20.4	11 E	2*	3*
1 16	20 17.71	−21 0.0	3.045	2.070	3.0	20.2	6 E	—	—

137158 1999 FB

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	17 19.18	−26 43.8	1.396	1.859	31.8	21.3	101 W	18	89
3 27	17 23.04	−27 20.6	1.323	1.849	31.5	21.2	105 W	18	89
4 1	17 26.14	−27 59.9	1.252	1.837	31.0	21.0	109 W	17	88
4 6	17 28.36	−28 42.2	1.181	1.824	30.3	20.9	113 W	16	87
4 11	17 29.57	−29 28.1	1.111	1.810	29.3	20.7	118 W	16	87
4 16	17 29.60	−30 18.2	1.043	1.794	28.1	20.5	123 W	15	86
4 21	17 28.24	−31 12.7	0.977	1.777	26.7	20.3	127 W	14	85
4 26	17 25.26	−32 11.8	0.913	1.759	24.9	20.1	133 W	13	84
5 1	17 20.39	−33 15.4	0.853	1.739	22.7	19.8	138 W	12	83
5 6	17 13.37	−34 22.5	0.797	1.718	20.3	19.6	144 W	11	82
5 11	17 3.92	−35 31.6	0.746	1.696	17.5	19.3	150 W	9	80
5 16	16 51.79	−36 39.9	0.700	1.672	14.7	19.1	155 W	8	79
5 21	16 36.85	−37 43.2	0.659	1.647	12.2	18.8	160 W	7	78
5 26	16 19.19	−38 36.2	0.625	1.620	10.9	18.6	162 W	6	77
5 31	15 59.22	−39 13.4	0.598	1.591	11.8	18.5	161 E	6	77
6 2	15 50.75	−39 22.7	0.589	1.580	12.8	18.5	160 E	6	77
6 4	15 42.09	−39 28.6	0.581	1.568	14.1	18.5	158 E	6	77
6 6	15 33.31	−39 30.7	0.574	1.555	15.7	18.5	156 E	5	76
6 8	15 24.48	−39 29.2	0.568	1.543	17.4	18.5	153 E	6	77
6 10	15 15.66	−39 23.9	0.564	1.530	19.3	18.6	150 E	6	77
6 12	15 6.94	−39 15.1	0.560	1.517	21.2	18.6	147 E	6	77
6 14	14 58.37	−39 2.8	0.557	1.504	23.2	18.6	144 E	6	77
6 16	14 50.03	−38 47.3	0.556	1.490	25.3	18.7	141 E	6	77
6 18	14 41.97	−38 29.1	0.555	1.476	27.4	18.7	138 E	7	78
6 20	14 34.24	−38 8.4	0.555	1.462	29.4	18.7	135 E	7	78
6 25	14 16.57	−37 8.7	0.557	1.426	34.5	18.8	127 E	8*	79
6 30	14 1.49	−36 2.6	0.563	1.387	39.4	18.9	120 E	8*	80
7 5	13 49.02	−34 55.7	0.572	1.347	44.0	19.0	113 E	8*	81
7 10	13 38.97	−33 51.7	0.581	1.306	48.3	19.1	106 E	7*	82
7 15	13 31.07	−32 53.0	0.590	1.262	52.5	19.2	100 E	6*	83
7 20	13 24.99	−32 0.8	0.598	1.216	56.4	19.3	94 E	5*	83*
7 25	13 20.41	−31 15.4	0.605	1.169	60.3	19.3	89 E	3*	79*
7 30	13 16.95	−30 36.0	0.609	1.119	64.2	19.3	83 E	2*	74*
8 4	13 14.24	−30 1.1	0.609	1.068	68.3	19.4	78 E	1*	68*
8 9	13 11.92	−29 28.4	0.605	1.014	72.6	19.4	73 E	—	63*
8 14	13 9.58	−28 54.8	0.598	0.959	77.4	19.4	67 E	—	58*
8 19	13 6.75	−28 16.0	0.586	0.902	82.8	19.4	62 E	—	53*
8 24	13 2.84	−27 26.0	0.570	0.843	89.2	19.5	57 E	—	47*
8 29	12 57.13	−26 15.5	0.550	0.783	96.9	19.6	50 E	—	41*
8 31	12 54.15	−25 38.7	0.541	0.759	100.5	19.6	48 E	—	38*
9 2	12 50.68	−24 55.4	0.532	0.735	104.4	19.7	45 E	—	35*
9 4	12 46.69	−24 4.3	0.523	0.711	108.7	19.8	42 E	—	32*
9 6	12 42.12	−23 4.3	0.514	0.687	113.3	20.0	39 E	—	29*
9 8	12 36.94	−21 53.8	0.506	0.663	118.5	20.3	35 E	—	25*
9 10	12 31.14	−20 31.6	0.498	0.640	124.1	20.6	32 E	—	22*
9 12	12 24.75	−18 56.5	0.492	0.617	130.1	21.0	28 E	—	18*

404316 2013 FA_2

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	17 26.79	−19 39.0	1.796	2.191	26.7	21.5	99 W	25	84
4 1	17 37.50	−19 57.4	1.653	2.163	26.3	21.3	107 W	25	84
4 11	17 46.13	−20 15.9	1.515	2.135	25.3	21.0	115 W	25	84
4 21	17 52.25	−20 36.6	1.385	2.106	23.6	20.7	123 W	24	85
5 1	17 55.34	−21 1.8	1.265	2.078	21.2	20.4	132 W	24	85
5 11	17 55.00	−21 33.6	1.158	2.049	17.8	20.1	142 W	23	86
5 21	17 50.92	−22 12.7	1.068	2.019	13.5	19.8	152 W	23	86
5 31	17 43.19	−22 58.2	0.997	1.990	8.3	19.4	164 W	22	87
6 5	17 38.16	−23 22.5	0.970	1.976	5.4	19.2	170 W	22	87
6 10	17 32.54	−23 47.2	0.948	1.962	2.3	18.9	176 W	21	88
6 15	17 26.51	−24 11.8	0.932	1.947	1.0	18.8	178 E	21	88
6 20	17 20.32	−24 35.9	0.921	1.933	4.2	18.9	172 E	20	89
6 25	17 14.23	−24 58.9	0.917	1.919	7.4	19.1	166 E	20	89
6 30	17 8.49	−25 20.9	0.918	1.905	10.6	19.2	160 E	20	89
7 5	17 3.34	−25 41.8	0.924	1.891	13.7	19.3	154 E	19	90
7 10	16 58.98	−26 1.7	0.935	1.877	16.6	19.4	148 E	19	90
7 15	16 55.56	−26 20.7	0.950	1.864	19.3	19.5	143 E	19	90
7 20	16 53.20	−26 39.2	0.969	1.850	21.8	19.6	137 E	18	89
7 30	16 51.93	−27 15.3	1.017	1.824	26.1	19.8	128 E	18	89
8 9	16 55.30	−27 50.9	1.074	1.799	29.5	20.0	119 E	17*	88
8 19	17 3.03	−28 25.5	1.139	1.775	32.1	20.2	111 E	16*	88
8 29	17 14.75	−28 57.5	1.207	1.753	34.0	20.3	104 E	16*	87
9 8	17 29.96	−29 24.4	1.278	1.732	35.2	20.5	98 E	15*	87
9 18	17 48.17	−29 43.0	1.350	1.713	35.9	20.6	92 E	15*	85*
9 28	18 8.97	−29 50.4	1.422	1.695	36.2	20.7	87 E	15*	80*
10 8	18 31.86	−29 43.7	1.495	1.680	36.1	20.8	82 E	15*	76*
10 18	18 56.42	−29 20.3	1.567	1.667	35.7	20.8	78 E	15*	72*
10 28	19 22.25	−28 38.4	1.638	1.656	35.1	20.9	73 E	16*	67*
11 7	19 48.92	−27 37.0	1.710	1.648	34.3	21.0	69 E	17*	63*
11 17	20 16.07	−26 15.8	1.781	1.642	33.3	21.0	66 E	18*	58*
11 27	20 43.39	−24 35.3	1.852	1.639	32.1	21.1	62 E	20*	54*
12 7	21 10.61	−22 36.8	1.923	1.639	30.8	21.1	58 E	22*	49*
12 17	21 37.56	−20 22.1	1.994	1.641	29.4	21.2	55 E	23*	44*
12 27	22 4.12	−17 53.6	2.065	1.646	27.9	21.2	52 E	25*	39*
1 6	22 30.20	−15 14.0	2.136	1.653	26.3	21.2	48 E	26*	35*
1 16	22 55.80	−12 25.9	2.208	1.663	24.7	21.3	45 E	26*	30*

24447 2000 QY_1

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	17 29.33	− 8 16.1	1.730	2.128	27.5	21.5	99 W	37*	72
4 1	17 37.01	− 7 9.7	1.615	2.129	26.7	21.3	107 W	38	71
4 11	17 41.91	− 5 55.8	1.505	2.129	25.3	21.1	115 W	39	70
4 21	17 43.64	− 4 37.1	1.402	2.127	23.3	20.9	123 W	40	69
5 1	17 41.84	− 3 17.7	1.311	2.123	20.6	20.6	132 W	42	67
5 11	17 36.41	− 2 3.6	1.233	2.118	17.4	20.4	141 W	43	66
5 16	17 32.37	− 1 30.6	1.201	2.115	15.6	20.3	146 W	43	66
5 21	17 27.52	− 1 1.6	1.174	2.111	14.0	20.2	150 W	44	65
5 26	17 21.98	− 0 37.7	1.152	2.107	12.5	20.1	153 W	44	65
5 31	17 15.90	− 0 19.8	1.136	2.103	11.3	20.0	156 W	45	64
6 5	17 9.45	− 0 8.7	1.126	2.098	10.8	19.9	157 W	45	64
6 10	17 2.83	− 0 4.8	1.121	2.093	11.0	19.9	157 E	45	64
6 20	16 49.88	− 0 19.7	1.129	2.082	13.2	20.0	152 E	45	64
6 30	16 38.65	− 1 3.5	1.159	2.069	16.8	20.2	144 E	44	65
7 10	16 30.33	− 2 11.4	1.209	2.055	20.6	20.4	135 E	43	66
7 15	16 27.46	− 2 52.4	1.239	2.047	22.3	20.5	130 E	42	67
7 20	16 25.51	− 3 36.9	1.273	2.039	23.9	20.6	126 E	41	68
7 25	16 24.49	− 4 24.3	1.310	2.031	25.3	20.7	121 E	41	68
7 30	16 24.39	− 5 13.9	1.349	2.022	26.6	20.8	117 E	40*	69
8 4	16 25.18	− 6 4.8	1.390	2.013	27.7	20.9	113 E	39*	70
8 9	16 26.81	− 6 56.6	1.432	2.004	28.6	20.9	109 E	38*	71
8 14	16 29.25	− 7 48.8	1.476	1.994	29.4	21.0	105 E	36*	72
8 19	16 32.46	− 8 41.0	1.520	1.984	30.0	21.1	101 E	35*	73
8 24	16 36.39	− 9 32.7	1.565	1.974	30.5	21.2	98 E	34*	74
8 29	16 41.02	−10 23.7	1.610	1.963	30.9	21.2	94 E	33*	74
9 3	16 46.28	−11 13.5	1.655	1.952	31.1	21.3	91 E	32*	75*
9 8	16 52.14	−12 2.0	1.700	1.940	31.3	21.3	88 E	31*	74*
9 13	16 58.57	−12 48.9	1.744	1.929	31.3	21.4	85 E	30*	73*
9 18	17 5.55	−13 34.0	1.788	1.917	31.2	21.4	81 E	29*	71*
9 23	17 13.04	−14 17.0	1.831	1.904	31.1	21.4	78 E	28*	69*
9 28	17 21.01	−14 57.7	1.873	1.892	30.9	21.5	76 E	27*	67*
10 3	17 29.44	−15 35.9	1.914	1.879	30.6	21.5	73 E	26*	64*

482718 2013 ET_9

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 22	17 30.23	−16 52.0	0.362	1.110	62.5	21.3	99 W	28*	81
3 27	17 56.19	−13 54.9	0.348	1.098	64.3	21.3	97 W	31*	78
4 1	18 22.01	−10 34.5	0.337	1.086	66.2	21.3	96 W	34*	75
4 6	18 47.46	− 6 56.6	0.330	1.075	68.2	21.3	94 W	37*	71*
4 11	19 12.34	− 3 8.4	0.327	1.065	70.1	21.3	92 W	40*	67*
4 16	19 36.48	+ 0 43.0	0.327	1.056	71.9	21.3	90 W	43*	63*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	482718 2013 ET_9				*(continuation)*				
	h m	° ′			°	m	°	°	°
4 21	19 59.77	+ 4 30.4	0.329	1.047	73.6	21.4	88 W	45*	59*
4 26	20 22.15	+ 8 8.3	0.334	1.040	75.0	21.4	86 W	47*	56*
5 1	20 43.64	+11 32.3	0.341	1.033	76.2	21.5	85 W	49*	52*
	462802 2010 PR_{74}								
3 22	17 40.44	−15 27.0	1.382	1.790	33.6	21.4	96 W	29*	79*
4 1	18 0.32	−14 51.2	1.260	1.754	34.0	21.1	101 W	30*	79
4 11	18 19.30	−14 3.5	1.144	1.720	34.0	20.9	106 W	31*	78
4 21	18 37.10	−13 5.6	1.036	1.687	33.6	20.6	112 W	32*	77
5 1	18 53.34	−12 0.7	0.935	1.657	32.8	20.3	117 W	33	76
5 11	19 7.68	−10 53.1	0.843	1.628	31.4	20.0	123 W	34	75
5 21	19 19.70	− 9 48.2	0.760	1.603	29.4	19.7	129 W	35	74
5 26	19 24.69	− 9 18.9	0.722	1.591	28.1	19.5	132 W	36	73
5 31	19 28.94	− 8 53.2	0.687	1.580	26.6	19.4	136 W	36	73
6 5	19 32.41	− 8 32.1	0.655	1.570	24.9	19.2	139 W	36	73
6 10	19 35.09	− 8 16.6	0.625	1.561	23.0	19.0	143 W	37	72
6 15	19 36.94	− 8 7.8	0.599	1.552	20.9	18.9	147 W	37	72
6 20	19 37.96	− 8 7.0	0.575	1.545	18.6	18.7	151 W	37	72
6 25	19 38.19	− 8 14.9	0.555	1.538	16.1	18.5	155 W	37	72
6 30	19 37.75	− 8 32.1	0.539	1.532	13.6	18.4	159 W	36	73
7 10	19 35.36	− 9 34.6	0.517	1.524	8.9	18.1	167 W	35	74
7 20	19 32.13	−11 10.2	0.510	1.520	7.6	18.0	169 E	34	75
7 30	19 29.83	−13 7.3	0.520	1.520	11.4	18.2	163 E	32	77
8 4	19 29.58	−14 8.9	0.530	1.521	14.0	18.3	159 E	31	78
8 9	19 30.11	−15 9.8	0.545	1.524	16.7	18.5	154 E	30	79
8 14	19 31.52	−16 8.5	0.563	1.527	19.3	18.6	150 E	29	80
8 19	19 33.88	−17 3.4	0.584	1.532	21.7	18.8	146 E	28	81
8 24	19 37.23	−17 53.4	0.609	1.537	23.9	19.0	142 E	27	82
8 29	19 41.55	−18 37.4	0.637	1.544	25.9	19.1	138 E	26	83
9 8	19 52.86	−19 45.9	0.701	1.559	29.2	19.5	131 E	25	84
9 18	20 7.20	−20 26.7	0.776	1.579	31.7	19.8	124 E	25	84
9 28	20 23.97	−20 39.9	0.861	1.601	33.4	20.1	118 E	24	85
10 3	20 33.04	−20 36.6	0.907	1.613	34.0	20.2	115 E	24	85
10 8	20 42.46	−20 27.2	0.954	1.627	34.5	20.4	113 E	25	84
10 13	20 52.16	−20 11.9	1.004	1.640	34.9	20.5	110 E	25	84
10 18	21 2.09	−19 51.0	1.056	1.655	35.1	20.7	107 E	25	84
10 23	21 12.21	−19 25.0	1.110	1.670	35.2	20.8	105 E	26	83
10 28	21 22.45	−18 54.1	1.165	1.685	35.2	20.9	102 E	26	83
11 2	21 32.77	−18 18.9	1.222	1.701	35.1	21.0	100 E	27	82
11 7	21 43.14	−17 39.6	1.281	1.717	34.9	21.2	97 E	27	81*
11 12	21 53.53	−16 56.7	1.341	1.734	34.7	21.3	95 E	28	80*
11 17	22 3.93	−16 10.4	1.403	1.752	34.3	21.4	93 E	29	77*
11 22	22 14.31	−15 21.1	1.466	1.769	33.9	21.5	90 E	30	75*
	475979 2007 PM_4								
3 22	17 40.98	−23 47.5	1.683	2.042	29.0	21.4	96 W	21*	88*
4 1	17 55.91	−26 6.6	1.529	1.997	29.3	21.1	102 W	19*	90
4 11	18 10.10	−28 48.7	1.383	1.954	29.0	20.8	109 W	16*	87
4 21	18 23.34	−32 0.7	1.247	1.911	28.3	20.5	116 W	13	84
5 1	18 35.25	−35 49.4	1.124	1.870	27.0	20.2	123 W	9	80
5 6	18 40.59	−37 59.2	1.068	1.850	26.2	20.1	126 W	7	78
5 11	18 45.42	−40 19.9	1.017	1.831	25.3	19.9	129 W	5	76
5 16	18 49.67	−42 51.2	0.970	1.812	24.4	19.8	132 W	2	73
5 21	18 53.20	−45 32.6	0.928	1.793	23.5	19.6	135 W	—	70
5 26	18 55.91	−48 22.6	0.891	1.776	22.7	19.5	137 W	—	68
5 31	18 57.65	−51 18.9	0.860	1.758	22.1	19.4	139 W	—	65
6 5	18 58.28	−54 18.7	0.835	1.742	21.8	19.3	140 W	—	62
6 10	18 57.62	−57 18.5	0.815	1.726	21.8	19.2	141 W	—	59
6 15	18 55.46	−60 14.1	0.800	1.711	22.2	19.2	140 W	—	56
6 20	18 51.65	−63 1.2	0.791	1.696	23.0	19.1	139 W	—	53
6 25	18 46.09	−65 35.5	0.787	1.683	24.1	19.1	138 W	—	50
6 30	18 38.84	−67 53.3	0.787	1.670	25.4	19.2	135 W	—	48
7 2	18 35.52	−68 43.2	0.788	1.665	25.9	19.2	134 E	—	47
7 4	18 32.00	−69 29.9	0.789	1.661	26.5	19.2	133 E	—	46
7 6	18 28.30	−70 13.4	0.792	1.656	27.0	19.2	132 E	—	46
7 8	18 24.48	−70 53.5	0.795	1.652	27.6	19.2	131 E	—	45
7 10	18 20.57	−71 30.3	0.798	1.647	28.2	19.2	130 E	—	44
7 12	18 16.63	−72 3.7	0.802	1.643	28.8	19.3	129 E	—	44
7 14	18 12.72	−72 33.8	0.806	1.639	29.3	19.3	128 E	—	43
7 16	18 8.91	−73 0.5	0.810	1.636	29.9	19.3	127 E	—	43
7 18	18 5.28	−73 24.1	0.815	1.632	30.4	19.3	126 E	—	43
7 20	18 1.89	−73 44.6	0.821	1.629	30.9	19.4	125 E	—	42
7 22	17 58.81	−74 2.2	0.826	1.626	31.4	19.4	124 E	—	42
7 24	17 56.12	−74 17.0	0.832	1.622	31.9	19.4	122 E	—	42
7 26	17 53.87	−74 29.1	0.838	1.620	32.3	19.4	121 E	—	42
7 28	17 52.11	−74 38.7	0.845	1.617	32.8	19.5	120 E	—	41
7 30	17 50.89	−74 46.0	0.851	1.614	33.2	19.5	120 E	—	41

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	475979 2007 PM_4				*(continuation)*				
	h m	° ′			°	m	°	°	°
8 1	17 50.22	−74 51.2	0.858	1.612	33.6	19.5	119 E	—	41
8 3	17 50.14	−74 54.2	0.865	1.610	33.9	19.5	118 E	—	41
8 5	17 50.65	−74 55.4	0.872	1.608	34.3	19.6	117 E	—	41
8 7	17 51.75	−74 54.6	0.879	1.606	34.6	19.6	116 E	—	41
8 9	17 53.45	−74 52.1	0.886	1.604	34.9	19.6	115 E	—	41
8 11	17 55.73	−74 47.8	0.894	1.603	35.2	19.6	114 E	—	41
8 13	17 58.57	−74 41.8	0.901	1.601	35.5	19.7	113 E	—	41
8 15	18 1.95	−74 34.1	0.909	1.600	35.7	19.7	113 E	—	41
8 17	18 5.84	−74 24.8	0.917	1.599	36.0	19.7	112 E	—	42
8 19	18 10.23	−74 13.8	0.925	1.599	36.2	19.7	111 E	—	42
8 21	18 15.06	−74 1.1	0.933	1.598	36.4	19.7	111 E	—	42
8 23	18 20.30	−73 46.8	0.941	1.598	36.5	19.8	110 E	—	42
8 25	18 25.90	−73 30.7	0.949	1.598	36.7	19.8	109 E	—	42
8 27	18 31.83	−73 13.0	0.957	1.598	36.8	19.8	109 E	—	43
8 29	18 38.04	−72 53.5	0.965	1.598	36.9	19.8	108 E	—	43
8 31	18 44.49	−72 32.2	0.973	1.598	37.1	19.9	107 E	—	43
9 2	18 51.12	−72 9.2	0.982	1.599	37.2	19.9	107 E	—	44
9 4	18 57.90	−71 44.3	0.990	1.600	37.2	19.9	106 E	—	44
9 6	19 4.80	−71 17.7	0.999	1.601	37.3	19.9	106 E	—	45
9 8	19 11.77	−70 49.1	1.008	1.602	37.4	19.9	105 E	—	45
9 10	19 18.79	−70 18.7	1.016	1.603	37.4	20.0	105 E	—	46
9 12	19 25.83	−69 46.5	1.025	1.605	37.4	20.0	104 E	—	46
9 14	19 32.86	−69 12.5	1.035	1.606	37.5	20.0	104 E	—	47
9 16	19 39.86	−68 36.6	1.044	1.608	37.5	20.0	103 E	—	47
9 18	19 46.81	−67 58.9	1.053	1.610	37.5	20.1	103 E	—	48
9 23	20 3.88	−66 17.2	1.077	1.616	37.4	20.1	102 E	—	50
9 28	20 20.36	−64 25.3	1.103	1.623	37.3	20.2	101 E	—	52
10 3	20 36.12	−62 24.1	1.130	1.631	37.2	20.2	100 E	—	54
10 8	20 51.11	−60 14.5	1.158	1.640	37.0	20.3	99 E	—	56
10 13	21 5.36	−57 57.7	1.189	1.650	36.8	20.4	98 E	—	58
10 18	21 18.92	−55 34.7	1.221	1.661	36.6	20.4	97 E	—	60
10 23	21 31.83	−53 6.8	1.256	1.673	36.3	20.5	95 E	—	63
10 28	21 44.16	−50 35.1	1.293	1.686	36.0	20.6	94 E	—	65
11 2	21 55.95	−48 0.8	1.332	1.700	35.7	20.6	93 E	—	68
11 7	22 7.26	−45 24.9	1.374	1.715	35.3	20.7	91 E	—	71
11 12	22 18.15	−42 48.3	1.418	1.730	34.9	20.8	90 E	2	73
11 17	22 28.68	−40 11.8	1.466	1.746	34.5	20.9	88 E	5	76*
11 22	22 38.90	−37 36.3	1.515	1.763	34.0	20.9	87 E	7	77*
11 27	22 48.84	−35 2.4	1.567	1.780	33.5	21.0	85 E	10	78*
12 2	22 58.53	−32 30.7	1.622	1.798	33.0	21.1	83 E	12	77*
12 7	23 8.01	−30 1.7	1.679	1.817	32.4	21.2	82 E	15	75*
12 12	23 17.30	−27 35.6	1.738	1.836	31.8	21.3	80 E	17	73*
12 17	23 26.44	−25 12.8	1.799	1.856	31.2	21.4	78 E	20	69*
12 22	23 35.45	−22 53.4	1.862	1.876	30.5	21.4	76 E	22	66*
	158209 2001 SG_{59}								
3 22	17 44.10	−19 2.6	1.750	2.092	28.3	21.4	95 W	26*	83*
4 1	17 57.82	−18 42.3	1.611	2.064	28.3	21.2	102 W	26*	83
4 11	18 9.81	−18 15.5	1.476	2.035	27.8	20.9	109 W	27	82
4 21	18 19.70	−17 43.8	1.349	2.007	26.7	20.7	116 W	27	82
5 1	18 27.03	−17 9.4	1.229	1.978	24.9	20.4	124 W	28	81
5 11	18 31.38	−16 34.9	1.120	1.950	22.4	20.1	133 W	28	81
5 21	18 32.36	−16 3.1	1.023	1.923	19.0	19.7	142 W	29	80
5 31	18 29.73	−15 37.2	0.942	1.896	14.8	19.4	152 W	29	80
6 10	18 23.71	−15 20.2	0.878	1.869	9.8	19.0	162 W	30	79
6 20	18 15.00	−15 14.3	0.834	1.844	5.2	18.7	171 W	30	79
6 25	18 10.05	−15 16.0	0.820	1.832	4.6	18.6	172 E	30	79
6 30	18 5.01	−15 21.0	0.811	1.819	6.0	18.6	169 E	30	79
7 5	18 0.11	−15 29.0	0.807	1.808	8.5	18.7	165 E	30	79
7 10	17 55.57	−15 40.1	0.808	1.796	11.4	18.8	160 E	29	80
7 15	17 51.62	−15 54.0	0.814	1.785	14.3	18.9	154 E	29	80
7 20	17 48.43	−16 10.4	0.824	1.774	17.2	19.0	149 E	29	80
7 25	17 46.16	−16 29.0	0.839	1.764	19.9	19.1	144 E	29	80
7 30	17 44.92	−16 49.5	0.857	1.754	22.4	19.3	139 E	28	81
8 9	17 45.68	−17 34.3	0.902	1.735	26.7	19.5	130 E	27	82
8 19	17 50.78	−18 21.1	0.957	1.718	30.2	19.7	121 E	27	82
8 29	17 59.99	−19 6.1	1.020	1.703	32.8	19.9	114 E	26	83
9 8	18 12.84	−19 45.5	1.088	1.690	34.6	20.1	107 E	25	84
9 18	18 28.81	−20 15.8	1.161	1.680	35.9	20.2	101 E	25	84
9 28	18 47.41	−20 33.9	1.237	1.672	36.6	20.4	96 E	24	85*
10 8	19 8.12	−20 37.4	1.315	1.666	36.8	20.5	91 E	24	82*
10 18	19 30.49	−20 24.3	1.396	1.663	36.7	20.6	86 E	25	78*
10 28	19 54.11	−19 53.6	1.479	1.662	36.3	20.7	82 E	25	73*
11 7	20 18.56	−19 4.9	1.563	1.664	35.6	20.8	78 E	26	68*
11 17	20 43.53	−17 58.5	1.650	1.668	34.7	20.9	74 E	27*	62*
11 27	21 8.75	−16 35.4	1.737	1.675	33.6	21.0	70 E	28*	57*
12 7	21 33.98	−14 57.1	1.826	1.684	32.3	21.1	66 E	30*	52*
12 17	21 59.08	−13 5.6	1.917	1.696	30.9	21.2	62 E	31*	46*
12 27	22 23.95	−11 2.9	2.007	1.710	29.3	21.3	58 E	32*	41*
1 6	22 48.50	− 8 51.6	2.098	1.726	27.7	21.3	55 E	33*	36*
1 16	23 12.73	− 6 33.9	2.190	1.743	25.9	21.4	51 E	33*	32*