152637 1997 NC_1

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 27	19 52.24	−26 39.1	1.889	1.025	19.5	20.3	20 E	4*	13*
1 6	20 32.80	−25 33.2	1.878	1.008	19.2	20.3	20 E	4*	13*
1 16	21 13.12	−23 44.3	1.860	0.985	19.1	20.2	19 E	4*	12*
1 26	21 53.05	−21 13.7	1.834	0.957	19.4	20.1	19 E	5*	12*
2 5	22 32.59	−18 2.7	1.802	0.925	20.1	20.0	19 E	5*	12*
2 15	23 11.85	−14 13.3	1.764	0.890	21.2	19.9	19 E	6*	12*
2 25	23 51.06	− 9 48.1	1.719	0.852	22.7	19.8	19 E	7*	12*
3 7	0 30.54	− 4 50.5	1.669	0.812	24.9	19.7	20 E	8*	12*
3 17	1 10.78	+ 0 34.7	1.613	0.774	27.7	19.6	21 E	10*	12*
3 22	1 31.35	+ 3 25.5	1.584	0.756	29.3	19.6	22 E	11*	12*
3 27	1 52.32	+ 6 20.1	1.553	0.739	31.3	19.5	23 E	12*	12*
4 1	2 13.77	+ 9 17.2	1.521	0.724	33.4	19.5	23 E	14*	12*
4 6	2 35.80	+12 15.1	1.488	0.711	35.7	19.5	24 E	15*	12*
4 11	2 58.51	+15 11.7	1.453	0.700	38.2	19.5	26 E	16*	13*
4 16	3 21.99	+18 4.6	1.418	0.692	40.9	19.5	27 E	18*	13*
4 21	3 46.32	+20 51.1	1.382	0.687	43.8	19.5	28 E	19*	13*
4 26	4 11.58	+23 28.2	1.345	0.685	46.6	19.5	30 E	21*	13*
5 1	4 37.83	+25 52.8	1.308	0.686	49.5	19.5	31 E	22*	14*
5 6	5 5.08	+28 1.4	1.271	0.691	52.3	19.5	33 E	24*	14*
5 11	5 33.33	+29 50.9	1.234	0.699	54.9	19.6	34 E	25*	15*
5 16	6 2.47	+31 18.0	1.198	0.709	57.4	19.6	36 E	27*	16*
5 21	6 32.32	+32 19.9	1.164	0.722	59.5	19.7	38 E	28*	17*
5 26	7 2.65	+32 54.3	1.131	0.737	61.4	19.7	40 E	29*	18*
5 31	7 33.15	+32 59.9	1.101	0.754	63.0	19.7	42 E	30*	20*
6 5	8 3.47	+32 35.9	1.073	0.772	64.3	19.8	43 E	31*	21*
6 10	8 33.29	+31 42.7	1.047	0.791	65.3	19.8	45 E	31*	23*
6 15	9 2.31	+30 21.7	1.025	0.810	66.0	19.8	47 E	32*	25*
6 20	9 30.27	+28 35.1	1.005	0.830	66.4	19.9	48 E	32*	28*
6 25	9 57.02	+26 25.5	0.989	0.850	66.6	19.9	50 E	31*	30*
6 30	10 22.49	+23 56.3	0.976	0.869	66.6	19.9	52 E	31*	33*
7 5	10 46.67	+21 10.8	0.966	0.888	66.3	19.9	53 E	30*	36*
7 10	11 9.63	+18 12.5	0.960	0.906	65.9	19.9	54 E	29*	38*
7 15	11 31.45	+15 4.8	0.957	0.924	65.4	19.9	56 E	28*	41*
7 20	11 52.24	+11 50.9	0.957	0.940	64.8	20.0	57 E	27*	43*
7 25	12 12.11	+ 8 33.7	0.959	0.956	64.1	20.0	58 E	26*	46*
7 30	12 31.21	+ 5 15.9	0.964	0.970	63.3	20.0	59 E	24*	48*
8 4	12 49.66	+ 1 59.5	0.972	0.984	62.5	20.0	59 E	23*	50*
8 9	13 7.59	− 1 13.6	0.981	0.996	61.7	20.0	60 E	21*	51*
8 14	13 25.12	− 4 21.9	0.992	1.007	60.9	20.1	60 E	20*	53*
8 19	13 42.34	− 7 24.1	1.005	1.016	60.1	20.1	61 E	18*	53*
8 24	13 59.35	−10 19.1	1.019	1.024	59.3	20.1	61 E	17*	54*
9 3	14 33.12	−15 45.3	1.048	1.037	57.9	20.2	61 E	14*	54*
9 13	15 7.09	−20 36.5	1.078	1.044	56.6	20.2	60 E	12*	54*
9 23	15 41.78	−24 49.9	1.107	1.045	55.5	20.2	59 E	10*	53*
10 3	16 17.59	−28 23.6	1.131	1.041	54.7	20.2	58 E	8*	52*
10 13	16 54.82	−31 15.4	1.150	1.031	54.1	20.2	57 E	7*	50*
10 23	17 33.52	−33 22.7	1.162	1.015	53.9	20.2	56 E	7*	49*
11 2	18 13.61	−34 42.5	1.165	0.994	54.0	20.2	54 E	6*	48*
11 12	18 54.77	−35 11.9	1.157	0.969	54.6	20.1	53 E	7*	47*
11 17	19 15.60	−35 6.8	1.150	0.954	55.1	20.1	52 E	7*	46*
11 22	19 36.48	−34 47.9	1.139	0.938	55.8	20.1	52 E	8*	46*
11 27	19 57.34	−34 15.1	1.126	0.922	56.6	20.0	51 E	9*	45*
12 2	20 18.10	−33 28.1	1.109	0.904	57.6	20.0	51 E	10*	44*
12 7	20 38.68	−32 26.6	1.089	0.886	58.8	19.9	50 E	11*	44*
12 12	20 58.99	−31 10.4	1.066	0.867	60.2	19.9	50 E	12*	43*
12 17	21 18.95	−29 39.5	1.040	0.847	61.9	19.8	49 E	13*	42*
12 22	21 38.48	−27 53.5	1.011	0.828	63.8	19.8	49 E	15*	41*
12 27	21 57.50	−25 52.5	0.979	0.808	66.0	19.7	49 E	17*	40*
1 1	22 15.96	−23 36.0	0.944	0.789	68.5	19.7	48 E	19*	39*
1 6	22 33.78	−21 4.0	0.906	0.770	71.4	19.6	48 E	21*	38*
1 11	22 50.85	−18 16.2	0.865	0.752	74.6	19.6	47 E	23*	36*
1 16	23 7.07	−15 12.3	0.822	0.735	78.1	19.5	47 E	25*	34*
1 21	23 22.31	−11 52.3	0.777	0.721	82.0	19.5	46 E	27*	32*

6050 Miwablock

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	19 52.41	−23 36.0	2.379	1.497	13.2	18.4	20 E	7*	12*
1 6	20 24.15	−22 16.1	2.353	1.448	11.9	18.3	18 E	6*	10*
1 16	20 56.59	−20 29.7	2.326	1.402	10.7	18.1	15 E	4*	7*
1 26	21 29.51	−18 16.9	2.299	1.360	9.6	18.0	13 E	3*	6*
2 5	22 2.73	−15 39.0	2.273	1.323	8.7	17.9	12 E	2*	4*
2 15	22 36.12	−12 38.4	2.251	1.291	7.9	17.8	10 E	1*	3*
2 25	23 9.57	− 9 18.8	2.234	1.267	7.2	17.7	9 E	—	2*
3 2	23 26.31	− 7 33.4	2.228	1.258	6.9	17.6	9 E	—	2*
3 7	23 43.04	− 5 45.1	2.224	1.250	6.6	17.6	8 E	—	2*
3 12	23 59.78	− 3 54.6	2.221	1.245	6.3	17.6	8 E	—	1*
3 17	0 16.52	− 2 2.7	2.221	1.241	6.0	17.6	8 E	—	1*
3 22	0 33.27	− 0 10.3	2.222	1.240	5.7	17.6	7 E	—	1*
3 27	0 50.01	+ 1 41.8	2.226	1.241	5.5	17.6	7 E	—	—
4 1	1 6.76	+ 3 32.8	2.231	1.243	5.2	17.5	6 E	—	—

6050 Miwablock *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 6	1 23.52	+ 5 21.9	2.239	1.248	4.9	17.5	6 E	—	—
4 11	1 40.29	+ 7 8.5	2.249	1.255	4.5	17.5	6 E	—	—
4 16	1 57.07	+ 8 51.6	2.260	1.264	4.2	17.6	5 E	—	—
4 26	2 30.62	+12 5.2	2.289	1.288	3.4	17.6	4 E	—	—
5 6	3 4.10	+14 58.2	2.324	1.318	2.5	17.6	3 E	—	—
5 16	3 37.42	+17 27.1	2.364	1.354	1.7	17.6	2 E	—	—
5 26	4 10.42	+19 30.0	2.408	1.396	1.1	17.7	2 W	—	—
6 5	4 42.92	+21 6.0	2.454	1.441	1.7	17.9	2 W	—	—
6 15	5 14.73	+22 15.5	2.501	1.490	3.0	18.1	4 W	—	—
6 25	5 45.65	+22 59.8	2.547	1.542	4.4	18.3	7 W	—	—
7 5	6 15.52	+23 21.0	2.590	1.595	5.9	18.4	9 W	—	2*
7 15	6 44.20	+23 21.6	2.629	1.650	7.6	18.6	12 W	3*	4*
7 25	7 11.60	+23 4.2	2.662	1.706	9.2	18.8	16 W	6*	6*
8 4	7 37.67	+22 31.9	2.689	1.762	10.9	19.0	19 W	10*	8*
8 14	8 2.38	+21 47.3	2.707	1.818	12.6	19.1	23 W	14*	10*
8 24	8 25.74	+20 53.2	2.717	1.874	14.2	19.2	27 W	19*	12*
9 3	8 47.77	+19 52.2	2.717	1.930	15.9	19.4	32 W	23*	14*
9 13	9 8.50	+18 46.5	2.706	1.985	17.4	19.5	36 W	28*	16*
9 23	9 27.93	+17 38.6	2.684	2.039	18.9	19.6	41 W	33*	18*
10 3	9 46.09	+16 30.4	2.651	2.093	20.3	19.6	47 W	38*	21*
10 13	10 2.97	+15 24.2	2.606	2.145	21.6	19.7	52 W	43*	24*
10 23	10 18.51	+14 21.8	2.550	2.197	22.7	19.7	58 W	48*	27*
11 2	10 32.68	+13 25.5	2.484	2.247	23.5	19.7	65 W	52*	31*
11 12	10 45.35	+12 37.2	2.408	2.296	24.1	19.7	72 W	55*	35*
11 22	10 56.38	+11 59.1	2.324	2.344	24.4	19.7	79 W	57*	39*
12 2	11 5.60	+11 33.5	2.234	2.390	24.3	19.7	87 W	57	44*
12 12	11 12.74	+11 22.6	2.141	2.435	23.7	19.6	95 W	56	48*
12 22	11 17.55	+11 28.4	2.047	2.479	22.6	19.5	104 W	56	51*
1 1	11 19.75	+11 52.3	1.957	2.521	20.9	19.4	114 W	57	52
1 11	11 19.06	+12 35.1	1.875	2.562	18.5	19.3	124 W	58	51
1 21	11 15.37	+13 35.3	1.806	2.602	15.3	19.1	136 W	59	50

503966 2004 RX_{109}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	19 52.76	− 9 37.3	1.516	0.755	33.9	19.8	25 E	18*	7*
1 1	20 22.63	− 8 26.9	1.575	0.836	32.8	20.1	27 E	20*	8*
1 6	20 49.77	− 7 17.2	1.642	0.915	31.3	20.3	29 E	21*	9*
1 11	21 14.44	− 6 9.0	1.717	0.992	29.5	20.5	30 E	22*	9*
1 16	21 36.90	− 5 2.9	1.797	1.068	27.6	20.7	30 E	23*	10*
1 21	21 57.42	− 3 59.1	1.880	1.142	25.7	20.9	30 E	23*	10*
1 26	22 16.25	− 2 57.9	1.967	1.214	23.7	21.1	30 E	22*	9*
1 31	22 33.60	− 1 59.1	2.054	1.284	21.8	21.3	29 E	22*	9*
2 5	22 49.69	− 1 2.8	2.143	1.352	19.9	21.4	28 E	21*	8*

257737 2000 AY_{48}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	19 53.74	−28 47.9	3.105	2.215	9.1	21.2	21 E	2*	15*
1 6	20 16.36	−28 19.3	3.103	2.178	7.4	21.1	17 E	—	10*
1 16	20 39.49	−27 38.8	3.090	2.142	5.9	21.0	13 E	—	7*
1 26	21 3.03	−26 46.3	3.066	2.106	4.9	20.9	11 E	—	4*
2 5	21 26.87	−25 42.1	3.033	2.070	4.8	20.8	10 E	—	1*
2 15	21 50.98	−24 26.6	2.991	2.034	5.6	20.8	12 W	—	—
2 25	22 15.27	−23 0.5	2.942	1.998	7.1	20.8	14 W	—	4*
3 7	22 39.73	−21 24.4	2.886	1.963	8.8	20.8	18 W	—	8*
3 17	23 4.34	−19 39.4	2.825	1.929	10.6	20.8	21 W	—	11*
3 27	23 29.07	−17 46.6	2.760	1.895	12.5	20.7	24 W	—	15*
4 6	23 53.94	−15 47.2	2.693	1.863	14.3	20.7	27 W	—	18*
4 16	0 18.96	−13 42.6	2.624	1.832	16.1	20.7	30 W	—	21*
4 26	0 44.13	−11 34.3	2.555	1.802	17.9	20.6	33 W	—	25*
5 6	1 9.47	− 9 24.1	2.485	1.774	19.6	20.6	36 W	—	28*
5 16	1 34.98	− 7 13.5	2.417	1.748	21.2	20.6	39 W	—	31*
5 26	2 0.64	− 5 4.7	2.351	1.724	22.8	20.5	41 W	—	35*
6 5	2 26.45	− 2 59.2	2.286	1.703	24.3	20.5	44 W	—	37*
6 15	2 52.36	− 0 58.8	2.223	1.684	25.7	20.4	46 W	2*	40*
6 25	3 18.31	+ 0 54.6	2.162	1.668	27.1	20.4	48 W	6*	42*
7 5	3 44.25	+ 2 40.0	2.102	1.655	28.3	20.4	51 W	11*	44*
7 15	4 10.07	+ 4 16.2	2.043	1.645	29.6	20.3	53 W	16*	45*
7 25	4 35.67	+ 5 42.5	1.984	1.639	30.7	20.3	56 W	21*	46*
8 4	5 0.94	+ 6 58.8	1.925	1.636	31.8	20.2	58 W	27*	46*
8 14	5 25.75	+ 8 5.4	1.865	1.636	32.8	20.2	61 W	32*	47*
8 24	5 49.93	+ 9 3.1	1.803	1.639	33.7	20.2	64 W	37*	47*
9 3	6 13.36	+ 9 53.6	1.739	1.646	34.5	20.1	68 W	42*	47*
9 13	6 35.87	+10 38.7	1.672	1.657	35.2	20.1	72 W	47*	47*
9 23	6 57.26	+11 21.2	1.602	1.670	35.6	20.0	76 W	51*	47*
10 3	7 17.36	+12 4.4	1.530	1.687	35.8	19.9	81 W	55*	48*
10 13	7 35.92	+12 52.5	1.455	1.706	35.7	19.8	86 W	57*	48*
10 23	7 52.65	+13 50.2	1.378	1.728	35.1	19.7	92 W	59	48*
11 2	8 7.23	+15 3.0	1.301	1.752	34.1	19.6	99 W	60	48*
11 12	8 19.22	+16 36.9	1.225	1.778	32.3	19.5	106 W	62	47*
11 22	8 28.14	+18 38.0	1.154	1.806	29.8	19.3	115 W	64	45
12 2	8 33.44	+21 10.4	1.090	1.836	26.3	19.1	124 W	66	43
12 12	8 34.52	+24 15.0	1.038	1.867	22.0	18.9	135 W	69	40

257737 2000 AY_{48} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 17	8 33.37	+25 57.6	1.019	1.884	19.5	18.8	140 W	71	38
12 22	8 31.08	+27 45.2	1.004	1.900	16.9	18.7	146 W	73	36
12 27	8 27.68	+29 35.4	0.995	1.917	14.2	18.6	151 W	75	34
1 1	8 23.24	+31 25.7	0.991	1.934	11.7	18.5	157 W	76	33
1 6	8 17.92	+33 12.9	0.994	1.951	9.4	18.5	161 W	78	31
1 11	8 11.93	+34 54.1	1.004	1.968	8.0	18.4	164 W	80	29
1 16	8 5.55	+36 26.7	1.021	1.986	7.7	18.5	164 W	81	28
1 21	7 59.06	+37 48.6	1.044	2.003	8.7	18.6	162 E	83	26

65817 1996 TC_{33}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	19 53.90	−18 21.4	2.547	1.673	12.5	20.0	22 E	11*	10*
1 6	20 22.46	−16 47.8	2.585	1.681	10.7	20.0	19 E	10*	7*
1 16	20 50.38	−14 59.0	2.622	1.693	8.8	19.9	15 E	8*	4*
1 26	21 17.57	−12 57.4	2.657	1.707	7.0	19.9	12 E	5*	1*
2 5	21 44.00	−10 45.5	2.691	1.723	5.1	19.9	9 E	3*	—
2 15	22 9.69	− 8 25.7	2.722	1.742	3.3	19.8	6 E	—	—
2 25	22 34.64	− 6 0.6	2.751	1.763	1.8	19.8	3 E	—	—
3 7	22 58.90	− 3 32.6	2.776	1.786	1.8	19.8	3 W	—	—
3 17	23 22.53	− 1 3.8	2.798	1.811	3.3	19.9	6 W	—	—
3 27	23 45.59	+ 1 23.8	2.815	1.838	5.1	20.1	9 W	—	3*
4 6	0 8.13	+ 3 48.5	2.827	1.866	6.9	20.2	13 W	1*	7*
4 16	0 30.20	+ 6 8.8	2.833	1.895	8.8	20.3	17 W	3*	10*
4 26	0 51.84	+ 8 23.3	2.833	1.925	10.6	20.5	21 W	4*	14*
5 6	1 13.07	+10 30.8	2.826	1.955	12.4	20.6	25 W	6*	18*
5 16	1 33.91	+12 30.5	2.812	1.987	14.2	20.6	29 W	8*	22*
5 26	1 54.35	+14 21.4	2.790	2.019	15.9	20.7	33 W	11*	25*
6 5	2 14.37	+16 3.0	2.760	2.051	17.6	20.8	38 W	14*	28*
6 15	2 33.92	+17 34.8	2.722	2.084	19.1	20.8	42 W	18*	31*
6 25	2 52.92	+18 56.6	2.675	2.117	20.6	20.9	47 W	23*	34*
7 5	3 11.29	+20 8.2	2.620	2.150	21.9	20.9	52 W	29*	36*
7 15	3 28.90	+21 9.6	2.556	2.183	23.1	20.9	57 W	35*	37*
7 25	3 45.59	+22 1.1	2.485	2.216	24.1	20.9	63 W	41*	38*
8 4	4 1.20	+22 43.1	2.406	2.248	24.9	20.9	69 W	48*	39*
8 14	4 15.49	+23 16.0	2.321	2.280	25.4	20.9	75 W	55*	40*
8 24	4 28.20	+23 40.4	2.230	2.312	25.6	20.8	82 W	61*	40*
9 3	4 39.07	+23 57.1	2.135	2.343	25.5	20.8	89 W	66*	40*
9 13	4 47.73	+24 6.8	2.038	2.374	24.9	20.7	97 W	69*	40
9 23	4 53.84	+24 9.9	1.941	2.404	23.8	20.6	105 W	69	40
10 3	4 57.04	+24 6.8	1.848	2.434	22.1	20.4	114 W	69	40
10 13	4 57.01	+23 57.5	1.763	2.463	19.6	20.3	124 W	69	40
10 23	4 53.61	+23 41.4	1.690	2.492	16.5	20.1	135 W	69	40
11 2	4 46.96	+23 17.7	1.633	2.519	12.7	19.9	146 W	68	41
11 12	4 37.56	+22 46.2	1.600	2.546	8.2	19.7	158 W	68	41
11 17	4 32.13	+22 27.6	1.592	2.560	5.8	19.6	165 W	67	42
11 22	4 26.42	+22 7.5	1.592	2.573	3.4	19.5	171 W	67	42
11 27	4 20.59	+21 46.2	1.599	2.585	0.9	19.3	178 W	67	42
12 2	4 14.82	+21 24.3	1.614	2.598	1.5	19.4	176 E	66	43
12 7	4 9.28	+21 2.3	1.635	2.610	3.9	19.6	170 E	66	43
12 12	4 4.13	+20 40.8	1.665	2.623	6.2	19.8	163 E	66	43
12 17	3 59.50	+20 20.6	1.701	2.635	8.4	19.9	157 E	65	44
12 22	3 55.49	+20 2.0	1.743	2.647	10.4	20.1	151 E	65	44
12 27	3 52.16	+19 45.5	1.792	2.658	12.3	20.2	145 E	65	44
1 1	3 49.55	+19 31.4	1.846	2.670	13.9	20.4	139 E	65	44
1 6	3 47.70	+19 20.1	1.906	2.681	15.4	20.5	134 E	64	45
1 11	3 46.60	+19 11.4	1.969	2.692	16.7	20.6	128 E	64	45
1 16	3 46.24	+19 5.6	2.037	2.703	17.8	20.7	123 E	64	45
1 21	3 46.58	+19 2.3	2.107	2.713	18.7	20.8	118 E	64	45

88263 2001 KQ_1

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	19 54.20	+ 9 54.4	3.526	2.843	12.8	21.4	40 E	34*	—
1 6	20 9.48	+10 21.9	3.554	2.821	11.9	21.3	36 E	29*	—
1 16	20 25.11	+11 1.4	3.570	2.798	11.1	21.3	33 E	23*	—
1 26	20 41.00	+11 52.6	3.573	2.773	10.5	21.2	31 E	17*	—
2 5	20 57.08	+12 54.7	3.564	2.746	10.1	21.2	29 W	17*	—
2 15	21 13.32	+14 7.2	3.542	2.718	10.1	21.2	29 W	20*	—
2 25	21 29.67	+15 29.4	3.509	2.688	10.3	21.1	29 W	22*	—
3 7	21 46.09	+17 0.3	3.464	2.657	10.9	21.1	30 W	24*	3*
3 17	22 2.57	+18 39.4	3.409	2.625	11.8	21.1	33 W	26*	8*
3 27	22 19.09	+20 25.6	3.342	2.591	12.8	21.0	35 W	28*	12*
4 6	22 35.66	+22 18.1	3.266	2.555	14.0	21.0	38 W	30*	16*
4 16	22 52.29	+24 15.9	3.181	2.518	15.3	21.0	41 W	32*	20*
4 26	23 8.97	+26 18.1	3.086	2.479	16.7	20.9	45 W	34*	23*
5 6	23 25.73	+28 23.6	2.984	2.439	18.1	20.8	49 W	37*	25*
5 16	23 42.59	+30 31.5	2.874	2.398	19.6	20.8	53 W	39*	26*
5 26	23 59.55	+32 40.7	2.758	2.355	21.0	20.7	56 W	43*	27*
6 5	0 16.65	+34 50.2	2.635	2.310	22.5	20.6	60 W	47*	27*
6 15	0 33.88	+36 58.7	2.507	2.264	23.9	20.5	65 W	51*	26*
6 25	0 51.22	+39 4.9	2.373	2.217	25.3	20.4	69 W	56*	25*
7 5	1 8.67	+41 7.6	2.235	2.168	26.6	20.2	73 W	62*	23
7 15	1 26.16	+43 5.3	2.094	2.118	27.9	20.1	77 W	68*	21

88263 2001 KQ_1 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 20	1 34.88	+44 1.7	2.021	2.092	28.5	20.0	80 W	71*	20
7 25	1 43.57	+44 56.1	1.949	2.066	29.1	19.9	82 W	74*	19
7 30	1 52.21	+45 48.4	1.875	2.040	29.7	19.8	84 W	77*	18
8 4	2 0.76	+46 38.2	1.801	2.014	30.2	19.7	87 W	80*	17
8 9	2 9.19	+47 25.3	1.726	1.987	30.7	19.6	89 W	83*	17
8 14	2 17.44	+48 9.2	1.651	1.960	31.1	19.5	92 W	85*	16
8 19	2 25.48	+48 49.5	1.576	1.933	31.5	19.4	94 W	86*	15
8 24	2 33.25	+49 25.8	1.501	1.905	31.8	19.2	97 W	86	15
8 29	2 40.67	+49 57.6	1.425	1.877	32.1	19.1	99 W	85	14
9 3	2 47.66	+50 24.1	1.350	1.849	32.2	18.9	102 W	85	14
9 8	2 54.11	+50 44.5	1.275	1.821	32.3	18.8	105 W	84	13
9 13	2 59.92	+50 57.8	1.200	1.793	32.2	18.6	108 W	84	13
9 18	3 4.96	+51 2.6	1.126	1.765	31.9	18.4	112 W	84	13
9 23	3 9.13	+50 57.4	1.053	1.736	31.5	18.3	115 W	84	13
9 28	3 12.27	+50 40.1	0.981	1.708	30.9	18.0	119 W	84	13
10 3	3 14.24	+50 7.9	0.910	1.679	30.0	17.8	123 W	85	14
10 8	3 14.91	+49 17.3	0.841	1.651	28.8	17.6	127 W	86	15
10 13	3 14.20	+48 3.7	0.775	1.623	27.2	17.3	132 W	87	16
10 18	3 12.08	+46 21.6	0.712	1.595	25.1	17.0	137 W	89	18
10 23	3 8.59	+44 4.3	0.653	1.567	22.4	16.7	143 W	89	20
10 28	3 3.85	+41 4.2	0.598	1.539	19.1	16.4	149 W	86	23
11 2	2 58.09	+37 13.5	0.549	1.512	15.2	16.0	156 W	82	27
11 7	2 51.64	+32 26.0	0.507	1.485	10.8	15.7	164 W	77	32
11 12	2 44.94	+26 40.6	0.474	1.458	7.1	15.3	169 E	72	37
11 14	2 42.30	+24 7.5	0.463	1.448	6.8	15.2	170 E	69	40
11 16	2 39.72	+21 26.9	0.454	1.437	7.5	15.2	169 E	66	43
11 18	2 37.23	+18 40.1	0.447	1.427	9.1	15.2	167 E	64	45
11 20	2 34.84	+15 48.4	0.441	1.417	11.3	15.3	164 E	61	48
11 22	2 32.59	+12 53.4	0.437	1.407	13.7	15.3	160 E	58	51
11 24	2 30.49	+ 9 56.8	0.435	1.397	16.4	15.4	156 E	55	54
11 26	2 28.56	+ 7 0.4	0.435	1.387	19.1	15.5	153 E	52	57
11 28	2 26.81	+ 4 5.8	0.436	1.378	21.9	15.6	149 E	49	60
11 30	2 25.26	+ 1 14.7	0.439	1.368	24.6	15.6	145 E	46	63
12 2	2 23.92	− 1 31.5	0.443	1.359	27.2	15.7	141 E	43	66
12 4	2 22.79	− 4 11.7	0.449	1.350	29.8	15.8	137 E	41	68
12 6	2 21.89	− 6 44.9	0.456	1.341	32.2	15.9	134 E	38	71
12 8	2 21.21	− 9 10.5	0.464	1.332	34.5	16.0	130 E	36	73
12 10	2 20.77	−11 28.1	0.474	1.324	36.6	16.1	127 E	34	75
12 12	2 20.55	−13 37.6	0.484	1.315	38.6	16.2	124 E	31	78
12 17	2 20.97	−18 25.9	0.512	1.295	42.9	16.4	116 E	27	82
12 22	2 22.72	−22 27.0	0.544	1.277	46.4	16.6	110 E	23	86
12 27	2 25.71	−25 46.6	0.578	1.260	49.1	16.7	105 E	19	90
1 1	2 29.84	−28 31.2	0.612	1.244	51.1	16.9	100 E	16	87
1 6	2 35.04	−30 46.5	0.645	1.230	52.7	17.0	96 E	14	85
1 11	2 41.23	−32 38.0	0.678	1.219	53.7	17.2	92 E	12	83*
1 16	2 48.33	−34 10.1	0.709	1.209	54.5	17.3	90 E	11	81*
1 21	2 56.28	−35 26.0	0.738	1.201	54.9	17.3	87 E	10	79*

230111 2001 BE_{10}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	19 54.75	−15 23.8	1.267	0.526	46.7	20.0	23 E	14*	9*
1 1	20 25.61	−12 9.3	1.208	0.541	53.1	20.1	26 E	17*	10*
1 6	20 55.75	− 8 45.6	1.152	0.565	58.5	20.3	29 E	21*	11*
1 11	21 25.39	− 5 18.2	1.100	0.595	62.8	20.4	33 E	24*	12*
1 16	21 54.79	− 1 52.1	1.055	0.628	66.0	20.5	36 E	28*	12*
1 21	22 24.14	+ 1 28.9	1.016	0.665	68.0	20.6	39 E	31*	13*
1 26	22 53.60	+ 4 40.8	0.986	0.702	69.0	20.7	42 E	34*	14*
1 31	23 23.20	+ 7 40.2	0.963	0.740	69.3	20.8	45 E	37*	15*
2 5	23 52.89	+10 23.9	0.948	0.777	68.9	20.9	47 E	40*	17*
2 10	0 22.55	+12 49.1	0.942	0.813	68.0	20.9	50 E	42*	18*
2 15	0 51.96	+14 54.3	0.942	0.848	66.8	21.0	52 E	44*	20*
2 20	1 20.90	+16 38.4	0.949	0.881	65.3	21.0	54 E	46*	21*
2 25	1 49.12	+18 1.6	0.962	0.912	63.7	21.1	56 E	47*	23*
3 2	2 16.44	+19 4.9	0.980	0.941	62.1	21.1	57 E	48*	24*
3 7	2 42.70	+19 50.0	1.002	0.968	60.5	21.2	58 E	49*	26*
3 12	3 7.83	+20 19.0	1.027	0.993	58.9	21.3	59 E	49*	27*
3 17	3 31.80	+20 34.1	1.056	1.016	57.4	21.3	59 E	49*	29*
3 22	3 54.61	+20 37.2	1.086	1.037	55.9	21.4	60 E	48*	30*
3 27	4 16.30	+20 30.3	1.117	1.056	54.6	21.4	60 E	47*	31*

243775 2000 RA_{101}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	19 55.16	− 6 31.1	2.498	1.691	15.7	20.8	28 E	21*	6*
1 6	20 23.07	− 5 28.9	2.547	1.706	14.1	20.8	25 E	19*	2*
1 16	20 50.49	− 4 14.7	2.596	1.725	12.4	20.8	22 E	16*	—
1 26	21 17.33	− 2 50.3	2.644	1.745	10.7	20.8	19 E	13*	—
2 5	21 43.52	− 1 18.0	2.691	1.767	9.1	20.8	16 E	10*	—
2 15	22 9.07	+ 0 20.3	2.736	1.792	7.5	20.8	14 E	6*	—
2 25	22 33.96	+ 2 2.3	2.778	1.817	6.1	20.8	11 E	2*	—
3 7	22 58.21	+ 3 46.1	2.816	1.845	5.1	20.8	10 W	3*	—
3 17	23 21.86	+ 5 29.7	2.848	1.873	4.9	20.9	9 W	3*	—
3 27	23 44.94	+ 7 11.5	2.874	1.902	5.5	20.9	11 W	4*	—
4 6	0 7.47	+ 8 49.9	2.894	1.933	6.7	21.0	13 W	5*	4*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
243775 2000 RA_{101} *(continuation)*									
	h m	° ′			°	m	°	°	°
4 16	0 29.51	+10 23.6	2.906	1.964	8.3	21.2	16 W	6*	8*
4 26	0 51.05	+11 51.2	2.909	1.996	10.0	21.3	20 W	7*	13*
5 6	1 12.12	+13 11.7	2.904	2.028	11.8	21.4	24 W	8*	17*
5 16	1 32.72	+14 24.2	2.889	2.060	13.6	21.5	29 W	10*	21*
103276 2000 AT_{33}									
12 27	19 55.19	−21 13.7	2.577	1.699	12.1	20.6	21 E	9*	12*
1 6	20 23.27	−20 7.0	2.582	1.673	10.3	20.5	18 E	7*	8*
1 16	20 51.54	−18 41.7	2.583	1.648	8.5	20.4	14 E	5*	5*
1 26	21 19.85	−16 58.9	2.580	1.626	6.8	20.3	11 E	3*	3*
2 5	21 48.11	−15 0.0	2.575	1.606	5.0	20.2	8 E	—	1*
2 15	22 16.25	−12 46.9	2.569	1.589	3.4	20.1	5 E	—	—
2 25	22 44.22	−10 21.9	2.561	1.574	2.0	20.0	3 E	—	—
3 7	23 12.03	− 7 47.6	2.553	1.563	1.6	19.9	2 E	—	—
3 17	23 39.69	− 5 6.8	2.545	1.554	2.6	20.0	4 W	—	—
3 27	0 7.23	− 2 22.5	2.537	1.549	4.0	20.0	6 W	—	—
4 6	0 34.69	+ 0 22.4	2.530	1.548	5.5	20.1	9 W	—	2*
4 16	1 2.12	+ 3 4.8	2.523	1.550	7.1	20.2	11 W	—	5*
4 26	1 29.53	+ 5 41.9	2.517	1.555	8.6	20.3	13 W	—	7*
5 6	1 56.97	+ 8 11.0	2.510	1.563	10.1	20.3	16 W	—	10*
5 16	2 24.43	+10 29.6	2.504	1.575	11.5	20.4	18 W	—	12*
5 26	2 51.90	+12 35.5	2.497	1.590	13.0	20.5	21 W	—	15*
6 5	3 19.32	+14 27.1	2.488	1.607	14.5	20.5	23 W	2*	17*
6 15	3 46.64	+16 2.9	2.478	1.628	15.9	20.6	26 W	5*	19*
6 25	4 13.74	+17 22.0	2.465	1.650	17.3	20.7	29 W	8*	21*
7 5	4 40.52	+18 24.1	2.448	1.675	18.7	20.7	32 W	12*	23*
7 15	5 6.84	+19 9.3	2.428	1.701	20.1	20.8	35 W	16*	25*
7 25	5 32.57	+19 38.0	2.403	1.729	21.5	20.8	39 W	21*	26*
8 4	5 57.56	+19 51.4	2.372	1.759	22.8	20.9	42 W	26*	28*
8 14	6 21.68	+19 50.6	2.336	1.790	24.1	20.9	46 W	31*	29*
8 24	6 44.78	+19 37.4	2.293	1.821	25.3	21.0	50 W	36*	30*
9 3	7 6.75	+19 13.8	2.243	1.854	26.4	21.0	55 W	41*	32*
9 13	7 27.46	+18 41.7	2.187	1.887	27.4	21.0	59 W	45*	33*
9 23	7 46.78	+18 3.7	2.123	1.920	28.2	21.0	65 W	50*	35*
10 3	8 4.58	+17 22.1	2.053	1.954	28.8	21.0	70 W	54*	37*
10 13	8 20.70	+16 39.7	1.976	1.988	29.2	20.9	76 W	58*	40*
10 23	8 34.94	+15 59.3	1.894	2.021	29.2	20.9	82 W	60*	42*
11 2	8 47.10	+15 24.0	1.808	2.055	28.9	20.8	89 W	60	45*
11 12	8 56.88	+14 57.0	1.720	2.088	28.1	20.7	97 W	60	47*
11 22	9 3.96	+14 41.8	1.632	2.121	26.7	20.6	105 W	60	49*
12 2	9 7.99	+14 41.4	1.547	2.153	24.6	20.5	115 W	60	49
12 12	9 8.63	+14 58.6	1.469	2.185	21.7	20.3	125 W	60	49
12 22	9 5.69	+15 34.6	1.403	2.216	18.0	20.1	136 W	61	48
1 1	8 59.20	+16 28.2	1.353	2.247	13.5	19.9	148 W	61	48
1 6	8 54.76	+17 0.5	1.337	2.262	11.0	19.8	154 W	62	47
1 11	8 49.67	+17 35.3	1.326	2.277	8.3	19.7	160 W	63	46
1 16	8 44.09	+18 11.6	1.323	2.292	5.6	19.6	167 W	63	46
1 21	8 38.18	+18 48.4	1.326	2.306	2.8	19.4	174 W	64	45
162269 1999 VO_6									
12 27	19 55.83	+ 6 7.0	2.508	1.822	19.0	21.3	37 E	31*	—
1 6	20 16.96	+ 6 35.6	2.598	1.862	17.0	21.3	34 E	27*	—
1 16	20 37.43	+ 7 15.3	2.676	1.895	15.3	21.4	30 E	22*	—
1 26	20 57.31	+ 8 5.3	2.741	1.922	13.7	21.4	28 E	17*	—
2 5	21 16.68	+ 9 4.4	2.791	1.943	12.4	21.4	25 E	12*	—
2 15	21 35.60	+10 11.6	2.826	1.959	11.6	21.4	23 W	13*	—
2 25	21 54.13	+11 26.1	2.845	1.969	11.2	21.4	23 W	15*	—
3 7	22 12.33	+12 46.8	2.847	1.973	11.4	21.4	23 W	17*	—
3 17	22 30.28	+14 12.9	2.833	1.972	12.1	21.5	25 W	18*	4*
3 27	22 48.02	+15 43.5	2.802	1.965	13.3	21.5	27 W	20*	9*
4 6	23 5.64	+17 17.9	2.755	1.952	14.8	21.5	30 W	21*	13*
4 16	23 23.23	+18 55.4	2.692	1.934	16.6	21.5	33 W	23*	18*
4 26	23 40.85	+20 35.2	2.613	1.910	18.5	21.4	37 W	25*	21*
5 6	23 58.64	+22 16.6	2.519	1.880	20.7	21.4	41 W	27*	25*
5 16	0 16.73	+23 58.9	2.411	1.844	22.9	21.3	45 W	29*	27*
5 26	0 35.26	+25 41.4	2.289	1.801	25.3	21.2	49 W	32*	30*
6 5	0 54.47	+27 23.3	2.154	1.753	27.7	21.1	54 W	36*	31*
6 15	1 14.63	+29 3.4	2.009	1.697	30.4	21.0	58 W	40*	32*
6 25	1 36.14	+30 40.4	1.853	1.634	33.1	20.8	62 W	44*	31*
7 5	1 59.59	+32 12.1	1.689	1.564	36.2	20.6	65 W	49*	31*
7 15	2 25.82	+33 34.9	1.518	1.485	39.5	20.3	68 W	53*	30*
7 20	2 40.34	+34 11.1	1.431	1.443	41.4	20.2	70 W	55*	29*
7 25	2 56.10	+34 42.3	1.343	1.398	43.4	20.0	71 W	57*	29*
7 30	3 13.36	+35 6.7	1.255	1.351	45.7	19.9	72 W	59*	29*
8 4	3 32.46	+35 21.9	1.167	1.301	48.2	19.7	73 W	60*	28*
8 9	3 53.81	+35 24.1	1.081	1.249	51.0	19.5	73 W	61*	28*
8 14	4 17.88	+35 7.9	0.996	1.194	54.2	19.4	73 W	62*	28*
8 16	4 28.39	+34 54.7	0.962	1.171	55.7	19.3	73 W	61*	28*
8 18	4 39.45	+34 36.7	0.930	1.147	57.2	19.2	72 W	61*	28*
8 20	4 51.10	+34 13.2	0.898	1.124	58.8	19.1	72 W	61*	28*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
162269 1999 VO_6 *(continuation)*									
	h m	° ′			°	m	°	°	°
8 22	5 3.37	+33 43.4	0.867	1.099	60.6	19.1	71 W	60*	28*
8 24	5 16.29	+33 6.5	0.837	1.074	62.4	19.0	70 W	59*	29*
8 26	5 29.87	+32 21.5	0.809	1.049	64.4	18.9	69 W	59*	29*
8 28	5 44.12	+31 27.3	0.782	1.023	66.5	18.9	68 W	57*	29*
8 30	5 59.03	+30 23.0	0.756	0.997	68.8	18.8	67 W	56*	29*
9 1	6 14.59	+29 7.4	0.732	0.970	71.2	18.8	65 W	54*	29*
9 3	6 30.76	+27 39.9	0.711	0.942	73.7	18.7	64 W	52*	30*
9 5	6 47.48	+25 59.6	0.692	0.914	76.4	18.7	62 W	50*	30*
9 7	7 4.68	+24 6.3	0.676	0.885	79.2	18.6	60 W	48*	30*
9 9	7 22.25	+22 0.2	0.663	0.855	82.1	18.6	57 W	45*	30*
9 11	7 40.10	+19 42.1	0.654	0.825	85.0	18.6	55 W	42*	30*
9 13	7 58.10	+17 13.4	0.648	0.794	87.9	18.6	52 W	39*	30*
9 15	8 16.15	+14 36.5	0.647	0.763	90.6	18.7	49 W	36*	29*
9 17	8 34.13	+11 53.8	0.650	0.731	93.3	18.7	47 W	33*	29*
9 19	8 51.93	+ 9 8.7	0.658	0.698	95.6	18.7	44 W	30*	28*
9 21	9 9.49	+ 6 24.3	0.670	0.665	97.6	18.8	41 W	26*	27*
9 23	9 26.75	+ 3 43.8	0.687	0.631	99.1	18.8	38 W	23*	26*
9 25	9 43.66	+ 1 10.2	0.709	0.596	100.0	18.8	36 W	20*	25*
9 27	10 0.23	− 1 14.3	0.736	0.561	100.3	18.7	33 W	17*	24*
9 29	10 16.49	− 3 27.6	0.767	0.526	99.8	18.6	31 W	15*	22*
10 1	10 32.49	− 5 28.4	0.803	0.491	98.5	18.5	29 W	12*	21*
10 3	10 48.30	− 7 15.6	0.844	0.456	96.1	18.4	27 W	10*	20*
10 8	11 27.83	−10 40.4	0.962	0.373	84.7	17.7	22 W	5*	15*
10 13	12 9.10	−12 29.2	1.098	0.313	63.4	16.9	16 W	1*	10*
10 18	12 52.98	−12 44.9	1.228	0.300	34.6	16.3	10 W	—	4*
10 23	13 36.41	−11 58.3	1.331	0.343	9.7	15.9	3 W	—	—
10 25	13 52.80	−11 31.8	1.364	0.371	3.2	15.8	1 W	—	—
10 27	14 8.48	−11 3.6	1.394	0.402	4.5	16.1	2 E	—	—
10 29	14 23.45	−10 34.9	1.422	0.436	8.7	16.6	4 E	—	—
10 31	14 37.73	−10 6.2	1.448	0.470	12.2	16.9	6 E	—	—
11 2	14 51.37	− 9 38.0	1.472	0.505	14.9	17.2	8 E	2*	—
11 7	15 22.96	− 8 30.3	1.531	0.593	19.4	17.8	11 E	5*	—
11 12	15 51.49	− 7 27.2	1.589	0.679	21.6	18.2	15 E	9*	—
11 17	16 17.50	− 6 28.4	1.646	0.760	22.6	18.6	17 E	11*	—
11 22	16 41.39	− 5 33.2	1.705	0.838	22.8	18.9	19 E	13*	—
11 27	17 3.49	− 4 40.8	1.764	0.911	22.6	19.1	21 E	15*	—
12 2	17 24.06	− 3 50.7	1.823	0.981	22.1	19.3	22 E	16*	—
12 12	18 1.38	− 2 14.4	1.940	1.109	20.8	19.7	24 E	17*	—
12 22	18 34.59	− 0 40.5	2.054	1.225	19.3	20.0	24 E	16*	—
1 1	19 4.59	+ 0 53.4	2.161	1.329	17.8	20.2	24 E	15*	—
1 11	19 32.01	+ 2 29.2	2.260	1.423	16.6	20.4	24 E	12*	—
1 21	19 57.33	+ 4 7.8	2.349	1.508	15.6	20.6	24 W	14*	—
417999 2007 TG_{400}									
12 27	19 55.84	−21 52.8	2.412	1.538	13.4	21.2	21 E	8*	12*
1 6	20 27.66	−20 43.6	2.426	1.528	11.9	21.2	19 E	7*	10*
1 16	20 59.27	−19 11.9	2.442	1.521	10.3	21.1	16 E	6*	7*
1 26	21 30.44	−17 20.1	2.458	1.519	8.8	21.1	14 E	4*	5*
2 5	22 1.01	−15 11.1	2.475	1.521	7.3	21.0	11 E	2*	4*
2 15	22 30.91	−12 48.5	2.494	1.527	5.8	21.0	9 E	—	2*
2 25	23 0.09	−10 15.8	2.515	1.537	4.5	20.9	7 E	—	1*
3 7	23 28.55	− 7 36.7	2.536	1.551	3.3	20.9	5 E	—	—
3 17	23 56.35	− 4 54.8	2.559	1.568	2.7	20.9	4 E	—	—
3 27	0 23.51	− 2 13.3	2.582	1.589	3.0	21.0	5 E	—	—
4 6	0 50.10	+ 0 24.7	2.604	1.614	3.9	21.1	6 W	—	—
4 16	1 16.19	+ 2 56.8	2.626	1.641	5.3	21.2	9 W	—	2*
4 26	1 41.80	+ 5 20.6	2.646	1.670	6.7	21.3	11 W	—	5*
5 6	2 6.98	+ 7 34.4	2.663	1.702	8.3	21.5	14 W	—	8*
168981 2001 CT_3									
12 27	19 57.21	−22 15.2	2.742	1.863	11.2	19.8	22 E	8*	13*
1 6	20 23.07	−21 16.2	2.745	1.831	9.3	19.7	18 E	6*	9*
1 16	20 49.26	−20 0.9	2.741	1.800	7.4	19.6	14 E	4*	6*
1 26	21 15.64	−18 29.8	2.732	1.771	5.6	19.5	10 E	1*	3*
2 5	21 42.11	−16 43.9	2.719	1.743	3.8	19.3	7 E	—	—
2 15	22 8.63	−14 44.3	2.701	1.718	2.3	19.2	4 E	—	—
2 25	22 35.13	−12 32.8	2.681	1.694	2.0	19.1	3 E	—	—
3 7	23 1.61	−10 11.2	2.660	1.674	3.1	19.2	5 W	—	—
3 17	23 28.07	− 7 41.7	2.636	1.656	4.6	19.2	8 W	—	1*
3 27	23 54.52	− 5 6.7	2.612	1.641	6.3	19.2	10 W	—	4*
4 6	0 20.99	− 2 28.7	2.588	1.629	8.0	19.3	13 W	—	6*
4 16	0 47.53	+ 0 9.6	2.564	1.620	9.6	19.3	16 W	—	9*
4 26	1 14.15	+ 2 45.6	2.540	1.615	11.2	19.4	18 W	—	12*
5 6	1 40.87	+ 5 16.6	2.517	1.613	12.7	19.4	21 W	—	15*
5 16	2 7.70	+ 7 40.0	2.494	1.615	14.3	19.4	23 W	—	17*
5 26	2 34.63	+ 9 53.6	2.472	1.620	15.7	19.5	26 W	1*	20*
6 5	3 1.62	+11 55.2	2.449	1.628	17.2	19.5	28 W	3*	22*
6 15	3 28.62	+13 43.0	2.426	1.640	18.6	19.6	31 W	6*	24*
6 25	3 55.51	+15 15.8	2.401	1.655	19.9	19.6	34 W	10*	26*

168981 2001 CT_3 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 5	4 22.20	+16 32.7	2.374	1.673	21.3	19.6	37 W	14*	28*
7 15	4 48.54	+17 33.3	2.345	1.693	22.6	19.7	40 W	18*	29*
7 25	5 14.38	+18 17.8	2.312	1.716	23.8	19.7	43 W	23*	30*
8 4	5 39.58	+18 46.8	2.276	1.742	25.0	19.7	47 W	28*	31*
8 14	6 3.95	+19 1.6	2.234	1.769	26.2	19.8	50 W	33*	32*
8 24	6 27.34	+19 3.6	2.188	1.799	27.2	19.8	54 W	38*	33*
9 3	6 49.59	+18 54.7	2.136	1.829	28.1	19.8	59 W	43*	35*
9 13	7 10.55	+18 37.2	2.079	1.861	28.9	19.8	63 W	48*	36*
9 23	7 30.05	+18 13.6	2.015	1.895	29.5	19.8	69 W	53*	37*
10 3	7 47.93	+17 46.5	1.946	1.929	29.9	19.8	74 W	57*	39*
10 13	8 3.99	+17 19.1	1.872	1.964	30.0	19.7	80 W	60*	41*
10 23	8 18.00	+16 54.4	1.793	1.999	29.8	19.7	87 W	62*	43*
11 2	8 29.72	+16 35.9	1.712	2.035	29.1	19.6	94 W	62	45*
11 12	8 38.80	+16 27.1	1.630	2.071	27.9	19.5	102 W	61	47*
11 22	8 44.93	+16 31.5	1.549	2.108	26.1	19.4	110 W	62	47*
12 2	8 47.75	+16 51.9	1.474	2.144	23.5	19.2	120 W	62	47
12 12	8 46.97	+17 30.3	1.409	2.180	20.1	19.0	130 W	63	46
12 22	8 42.51	+18 26.1	1.357	2.216	15.9	18.9	142 W	63	46
1 1	8 34.68	+19 36.0	1.326	2.252	11.0	18.7	154 W	65	44
1 6	8 29.71	+20 14.2	1.319	2.269	8.3	18.6	161 W	65	44
1 11	8 24.25	+20 53.1	1.318	2.287	5.6	18.4	167 W	66	43
1 16	8 18.48	+21 31.7	1.325	2.304	2.8	18.3	173 W	67	42
1 21	8 12.60	+22 8.8	1.338	2.322	0.9	18.2	178 W	67	42

61550 2000 QK_{70}

12 27	19 58.08	−13 16.6	2.588	1.742	13.6	19.7	25 E	16*	9*
1 6	20 25.30	−12 58.0	2.657	1.772	11.4	19.7	21 E	13*	6*
1 16	20 51.77	−12 24.6	2.722	1.803	9.1	19.7	17 E	10*	3*
1 26	21 17.44	−11 38.7	2.783	1.836	6.8	19.7	13 E	6*	—
2 5	21 42.28	−10 42.6	2.838	1.869	4.5	19.6	9 E	3*	—
2 15	22 6.31	− 9 38.7	2.887	1.904	2.3	19.6	4 E	—	—
2 25	22 29.55	− 8 29.1	2.929	1.939	0.5	19.5	1 W	—	—
3 7	22 52.04	− 7 16.0	2.962	1.975	2.4	19.7	5 W	—	—
3 17	23 13.82	− 6 1.3	2.986	2.011	4.6	19.9	9 W	—	3*
3 27	23 34.93	− 4 46.8	3.001	2.048	6.8	20.1	14 W	—	8*
4 6	23 55.40	− 3 34.2	3.006	2.084	8.9	20.2	19 W	—	13*
4 16	0 15.29	− 2 24.9	3.001	2.120	11.0	20.3	24 W	—	18*
4 26	0 34.58	− 1 20.6	2.985	2.156	12.9	20.4	29 W	—	23*
5 6	0 53.31	− 0 22.5	2.959	2.192	14.8	20.5	34 W	2*	28*
5 16	1 11.46	+ 0 28.1	2.923	2.228	16.6	20.6	39 W	4*	33*
5 26	1 28.99	+ 1 9.9	2.876	2.263	18.2	20.6	44 W	6*	38*
6 5	1 45.89	+ 1 41.9	2.821	2.298	19.7	20.6	50 W	9*	43*
6 15	2 2.07	+ 2 2.9	2.756	2.332	21.0	20.7	55 W	13*	48*
6 25	2 17.43	+ 2 11.7	2.683	2.365	22.1	20.7	61 W	18*	52*
7 5	2 31.88	+ 2 7.3	2.602	2.398	23.0	20.7	67 W	23*	56*
7 15	2 45.26	+ 1 48.6	2.515	2.430	23.6	20.6	73 W	28*	59*
7 25	2 57.37	+ 1 14.7	2.424	2.462	24.0	20.6	80 W	33*	62*
8 4	3 8.03	+ 0 24.9	2.330	2.492	24.0	20.5	87 W	38*	64*
8 14	3 16.97	− 0 41.5	2.234	2.522	23.6	20.5	94 W	41*	65
8 24	3 23.91	− 2 4.4	2.141	2.551	22.8	20.4	102 W	42*	66
9 3	3 28.59	− 3 43.0	2.052	2.579	21.6	20.3	110 W	41	68
9 13	3 30.71	− 5 35.4	1.971	2.606	19.8	20.1	118 W	39	70
9 23	3 30.08	− 7 37.5	1.903	2.632	17.7	20.0	127 W	37	72
9 28	3 28.71	− 8 40.5	1.875	2.645	16.6	20.0	131 W	36	73
10 3	3 26.65	− 9 43.5	1.851	2.658	15.4	19.9	135 W	35	74
10 8	3 23.92	−10 45.4	1.833	2.670	14.2	19.9	139 W	34	75
10 13	3 20.57	−11 45.0	1.819	2.682	13.0	19.8	143 W	33	76
10 18	3 16.69	−12 41.1	1.812	2.694	12.1	19.8	146 W	32	77
10 23	3 12.35	−13 32.4	1.811	2.705	11.3	19.7	148 W	31	78
10 28	3 7.68	−14 17.9	1.816	2.717	10.8	19.7	149 W	31	78
11 2	3 2.79	−14 56.6	1.828	2.728	10.7	19.8	149 W	30	79
11 7	2 57.82	−15 27.7	1.846	2.739	11.0	19.8	148 W	30	79
11 12	2 52.91	−15 50.7	1.870	2.749	11.5	19.9	146 E	29	80
11 22	2 43.76	−16 12.2	1.937	2.770	13.2	20.0	140 E	29	80
12 2	2 36.20	−16 2.6	2.026	2.790	15.1	20.2	133 E	29	80
12 12	2 30.83	−15 25.7	2.134	2.808	16.9	20.4	124 E	30	79
12 17	2 29.05	−14 58.9	2.193	2.817	17.6	20.5	120 E	30	79
12 22	2 27.89	−14 27.5	2.256	2.826	18.3	20.6	116 E	31	78
12 27	2 27.35	−13 52.1	2.321	2.834	18.8	20.7	112 E	31	78
1 1	2 27.40	−13 13.4	2.389	2.842	19.3	20.7	107 E	32	77
1 6	2 28.04	−12 32.0	2.458	2.850	19.6	20.8	103 E	32	77
1 11	2 29.22	−11 48.5	2.529	2.858	19.8	20.9	99 E	33	75*
1 16	2 30.93	−11 3.3	2.600	2.865	20.0	21.0	95 E	34	73*
1 21	2 33.12	−10 16.9	2.672	2.872	20.0	21.0	92 E	35	71*

173530 2000 WF_{13}

12 27	19 58.12	−25 9.2	2.576	1.700	12.3	20.8	22 E	6*	14*
1 6	20 27.33	−23 44.9	2.589	1.684	10.6	20.8	18 E	5*	11*
1 16	20 56.34	−22 1.0	2.600	1.671	8.9	20.7	15 E	3*	8*
1 26	21 24.96	−19 59.2	2.609	1.660	7.2	20.6	12 E	1*	5*

173530 2000 WF_{13} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 5	21 53.09	−17 41.8	2.617	1.652	5.6	20.5	9 E	—	3*
2 15	22 20.69	−15 11.2	2.623	1.647	4.2	20.5	7 E	—	1*
2 25	22 47.73	−12 30.3	2.629	1.646	3.0	20.4	5 E	—	—
3 7	23 14.23	− 9 42.0	2.634	1.647	2.7	20.4	4 E	—	—
3 17	23 40.24	− 6 49.0	2.639	1.651	3.4	20.4	6 W	—	—
3 27	0 5.80	− 3 54.3	2.642	1.659	4.6	20.5	8 W	—	1*
4 6	0 30.98	− 1 0.4	2.644	1.669	6.1	20.6	10 W	—	4*
4 16	0 55.84	+ 1 50.1	2.645	1.682	7.7	20.7	13 W	—	7*
4 26	1 20.43	+ 4 35.2	2.644	1.698	9.3	20.8	16 W	—	10*
5 6	1 44.80	+ 7 12.7	2.640	1.716	10.9	20.9	19 W	—	13*
5 16	2 8.98	+ 9 41.0	2.633	1.736	12.5	20.9	22 W	—	16*
5 26	2 32.97	+11 58.8	2.623	1.759	14.2	21.0	25 W	3*	19*
6 5	2 56.77	+14 4.9	2.608	1.784	15.8	21.1	29 W	6*	22*
6 15	3 20.35	+15 58.5	2.589	1.810	17.3	21.2	32 W	9*	24*
6 25	3 43.64	+17 39.1	2.564	1.838	18.8	21.2	36 W	13*	27*
7 5	4 6.58	+19 6.6	2.534	1.867	20.3	21.3	40 W	18*	28*
7 15	4 29.07	+20 21.2	2.497	1.897	21.7	21.3	44 W	23*	30*
7 25	4 50.98	+21 23.3	2.453	1.928	23.1	21.4	48 W	29*	31*
8 4	5 12.20	+22 13.8	2.402	1.960	24.3	21.4	53 W	35*	33*
8 14	5 32.55	+22 53.8	2.344	1.992	25.4	21.4	57 W	41*	33*
8 24	5 51.87	+23 24.9	2.280	2.025	26.3	21.4	63 W	47*	34*
9 3	6 9.99	+23 48.7	2.208	2.058	27.1	21.4	68 W	53*	35*
9 13	6 26.67	+24 7.3	2.130	2.091	27.6	21.4	74 W	59*	36*
9 23	6 41.67	+24 23.1	2.047	2.125	27.8	21.3	80 W	64*	37*
10 3	6 54.74	+24 38.6	1.960	2.158	27.6	21.3	87 W	68*	38*
10 13	7 5.53	+24 56.5	1.870	2.191	27.0	21.2	95 W	70	38*
10 23	7 13.69	+25 19.4	1.780	2.224	25.9	21.1	103 W	70	39*
11 2	7 18.83	+25 49.5	1.692	2.257	24.1	20.9	112 W	71	38
11 12	7 20.53	+26 28.3	1.611	2.289	21.7	20.8	121 W	71	38
11 22	7 18.48	+27 15.7	1.541	2.321	18.5	20.6	132 W	72	37
12 2	7 12.62	+28 9.1	1.486	2.352	14.5	20.4	143 W	73	36
12 7	7 8.33	+28 36.7	1.467	2.367	12.3	20.3	149 W	74	35
12 12	7 3.24	+29 3.8	1.453	2.383	10.0	20.2	155 W	74	35
12 17	6 57.51	+29 29.5	1.445	2.398	7.6	20.1	161 W	74	35
12 22	6 51.30	+29 53.0	1.444	2.413	5.3	20.0	167 W	75	34
12 27	6 44.80	+30 13.6	1.451	2.428	3.4	20.0	171 W	75	34
1 1	6 38.22	+30 30.7	1.464	2.442	3.1	20.0	172 E	76	33
1 6	6 31.79	+30 44.0	1.485	2.457	4.5	20.1	169 E	76	33
1 11	6 25.72	+30 53.6	1.513	2.471	6.5	20.3	163 E	76	33
1 16	6 20.20	+30 59.7	1.548	2.485	8.7	20.4	158 E	76	33
1 21	6 15.36	+31 2.5	1.589	2.499	10.7	20.6	152 E	76	33

53409 1999 LU_7

12 27	19 58.79	−15 48.6	1.617	0.817	28.9	20.6	24 E	14*	10*
1 6	20 51.26	−13 46.1	1.540	0.786	33.4	20.5	26 E	16*	12*
1 16	21 45.71	−10 58.6	1.478	0.784	37.8	20.5	29 E	19*	14*
1 26	22 40.78	− 7 34.9	1.437	0.812	41.2	20.7	33 E	22*	17*
2 5	23 35.11	− 3 49.6	1.424	0.865	42.9	20.8	37 E	26*	20*
2 15	0 27.57	− 0 0.0	1.441	0.936	42.9	21.0	40 E	29*	22*
2 25	1 17.26	+ 3 37.1	1.487	1.020	41.5	21.2	43 E	31*	25*
3 7	2 3.65	+ 6 49.4	1.561	1.111	39.2	21.5	45 E	33*	27*

367684 2010 OS_{22}

12 27	19 59.36	−15 35.7	2.152	1.314	17.6	21.3	24 E	14*	11*
1 6	20 26.83	−14 6.1	2.070	1.200	16.7	21.0	21 E	13*	7*
1 16	20 56.87	−12 11.2	1.973	1.081	16.4	20.6	18 E	11*	4*
1 26	21 30.01	− 9 47.0	1.860	0.957	16.9	20.2	16 E	10*	2*
2 5	22 7.03	− 6 49.8	1.733	0.830	18.9	19.9	16 E	10*	1*
2 15	22 49.03	− 3 17.8	1.592	0.705	23.6	19.5	17 E	10*	2*
2 20	23 12.28	− 1 19.7	1.516	0.646	27.5	19.3	18 E	11*	3*
2 25	23 37.24	+ 0 44.2	1.435	0.594	32.8	19.1	19 E	12*	4*
3 2	0 4.00	+ 2 50.6	1.350	0.551	39.8	19.0	21 E	14*	6*
3 7	0 32.51	+ 4 54.6	1.261	0.522	48.2	19.0	23 E	16*	8*
3 12	1 2.61	+ 6 50.7	1.168	0.510	57.7	19.1	26 E	18*	10*
3 17	1 34.08	+ 8 33.3	1.076	0.518	67.0	19.2	29 E	20*	13*
3 22	2 6.81	+ 9 59.2	0.988	0.543	75.0	19.4	32 E	22*	17*
3 27	2 40.93	+11 7.0	0.908	0.584	80.8	19.5	35 E	24*	20*
4 1	3 16.73	+11 56.3	0.839	0.634	84.2	19.7	39 E	27*	24*
4 6	3 54.43	+12 26.1	0.783	0.692	85.2	19.8	44 E	29*	28*
4 11	4 33.95	+12 34.8	0.741	0.753	84.2	19.8	48 E	31*	33*
4 16	5 14.74	+12 20.7	0.715	0.816	81.6	19.8	54 E	34*	37*
4 21	5 55.77	+11 43.9	0.705	0.880	77.8	19.8	59 E	36*	42*
4 26	6 35.80	+10 47.2	0.711	0.943	73.4	19.8	64 E	37*	46*
5 1	7 13.66	+ 9 35.7	0.731	1.006	68.8	19.9	69 E	38*	50*
5 6	7 48.58	+ 8 15.6	0.764	1.068	64.3	19.9	73 E	38*	53*
5 11	8 20.20	+ 6 52.2	0.809	1.129	60.2	20.1	76 E	38*	56*
5 16	8 48.55	+ 5 29.6	0.863	1.188	56.4	20.2	78 E	37*	58*
5 21	9 13.86	+ 4 9.9	0.925	1.246	53.1	20.4	80 E	36*	59*
5 26	9 36.49	+ 2 54.2	0.993	1.302	50.2	20.5	81 E	34*	61*
5 31	9 56.82	+ 1 42.9	1.066	1.357	47.6	20.7	81 E	33*	62*
6 5	10 15.21	+ 0 35.7	1.144	1.410	45.3	20.9	81 E	31*	63*

20/21		α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			367684 2010 OS_{22}				*(continuation)*			
		h m	° ′			°	m	°	°	°
6	10	10 31.98	− 0 27.8	1.225	1.462	43.3	21.0	81 E	29*	64*
6	15	10 47.40	− 1 28.1	1.309	1.512	41.4	21.2	80 E	27*	65*
6	20	11 1.70	− 2 25.7	1.395	1.561	39.7	21.4	79 E	25*	65*
			400513 2008 SP_3							
12	27	19 59.63	−19 25.8	2.468	1.606	13.7	21.5	23 E	11*	12*
1	6	20 29.50	−18 8.4	2.500	1.608	11.9	21.4	20 E	10*	9*
1	16	20 58.87	−16 33.3	2.531	1.614	10.1	21.4	17 E	8*	6*
1	26	21 27.61	−14 42.7	2.562	1.622	8.2	21.4	14 E	6*	4*
2	5	21 55.66	−12 39.5	2.592	1.633	6.4	21.3	11 E	3*	1*
2	15	22 23.00	−10 26.5	2.620	1.646	4.5	21.3	8 E	1*	—
2	25	22 49.63	− 8 6.5	2.647	1.662	2.6	21.2	4 E	—	—
3	7	23 15.59	− 5 42.5	2.672	1.680	0.9	21.1	1 E	—	—
3	17	23 40.95	− 3 16.8	2.694	1.700	1.3	21.2	2 W	—	—
3	27	0 5.75	− 0 52.0	2.713	1.722	3.2	21.4	5 W	—	—
			136897 1998 HJ_{41}							
12	27	19 59.66	+ 1 34.9	1.873	1.194	27.5	21.5	34 E	28*	3*
1	6	20 37.99	+ 2 11.2	1.889	1.193	26.8	21.5	33 E	27*	2*
1	16	21 16.11	+ 2 53.1	1.914	1.195	25.6	21.5	32 E	26*	2*
1	26	21 53.68	+ 3 38.7	1.947	1.199	24.2	21.5	30 E	24*	1*
2	5	22 30.46	+ 4 25.9	1.986	1.205	22.4	21.5	28 E	22*	2*
2	15	23 6.31	+ 5 12.7	2.029	1.214	20.5	21.5	25 E	19*	2*
2	25	23 41.18	+ 5 57.3	2.074	1.225	18.3	21.5	23 E	17*	3*
3	7	0 15.09	+ 6 38.1	2.120	1.237	16.1	21.5	20 E	14*	3*
3	17	0 48.14	+ 7 13.7	2.163	1.252	14.0	21.5	18 E	11*	4*
3	27	1 20.42	+ 7 42.9	2.203	1.268	11.9	21.5	15 E	8*	5*
4	6	1 52.06	+ 8 4.3	2.238	1.284	10.2	21.4	13 E	4*	5*
4	16	2 23.19	+ 8 16.9	2.269	1.302	9.0	21.5	12 E	1*	5*
4	26	2 53.92	+ 8 19.6	2.293	1.320	8.5	21.5	11 E	—	5*
			163679 2002 XG_{84}							
12	27	19 59.69	−23 8.5	1.771	0.936	23.3	21.3	22 E	8*	14*
1	1	20 21.81	−21 51.8	1.735	0.905	24.3	21.2	22 E	9*	13*
1	6	20 44.31	−20 20.6	1.698	0.876	25.5	21.1	23 E	10*	13*
1	11	21 7.14	−18 34.7	1.662	0.851	27.0	21.1	23 E	11*	13*
1	16	21 30.21	−16 34.2	1.627	0.829	28.7	21.0	24 E	12*	13*
1	21	21 53.47	−14 19.8	1.593	0.812	30.5	21.0	25 E	14*	13*
1	26	22 16.87	−11 52.4	1.560	0.799	32.5	21.0	26 E	15*	13*
1	31	22 40.38	− 9 13.7	1.529	0.792	34.6	20.9	27 E	17*	14*
2	5	23 3.96	− 6 25.5	1.501	0.790	36.6	21.0	29 E	19*	14*
2	10	23 27.63	− 3 30.1	1.477	0.794	38.4	21.0	30 E	21*	14*
2	15	23 51.39	− 0 30.1	1.456	0.803	40.1	21.0	32 E	23*	15*
2	20	0 15.23	+ 2 31.5	1.440	0.818	41.5	21.1	33 E	25*	15*
2	25	0 39.18	+ 5 31.7	1.429	0.837	42.6	21.1	35 E	26*	16*
3	2	1 3.24	+ 8 27.6	1.423	0.860	43.3	21.2	37 E	28*	16*
3	7	1 27.41	+11 16.3	1.423	0.887	43.7	21.3	38 E	30*	17*
3	12	1 51.67	+13 55.1	1.428	0.916	43.7	21.4	40 E	31*	17*
3	17	2 15.98	+16 22.0	1.440	0.948	43.5	21.5	41 E	33*	18*
			58683 1998 AJ_{10}							
12	27	19 59.87	−22 7.9	2.606	1.736	12.4	19.4	22 E	9*	13*
1	6	20 27.62	−20 52.0	2.615	1.712	10.6	19.3	19 E	7*	10*
1	16	20 55.45	−19 18.2	2.620	1.690	8.8	19.2	15 E	5*	7*
1	26	21 23.21	−17 27.5	2.621	1.671	7.0	19.1	12 E	3*	4*
2	5	21 50.82	−15 21.6	2.621	1.654	5.2	19.0	9 E	1*	1*
2	15	22 18.22	−13 2.4	2.619	1.639	3.6	18.9	6 E	—	—
2	25	22 45.37	−10 32.3	2.615	1.628	2.1	18.8	3 E	—	—
3	7	23 12.27	− 7 53.9	2.610	1.620	1.6	18.7	3 E	—	—
3	17	23 38.96	− 5 9.7	2.605	1.614	2.6	18.8	4 W	—	—
3	27	0 5.44	− 2 22.8	2.600	1.612	4.0	18.9	7 W	—	—
4	6	0 31.78	+ 0 24.3	2.594	1.614	5.6	19.0	9 W	—	3*
4	16	0 58.03	+ 3 8.7	2.588	1.618	7.2	19.0	12 W	—	6*
4	26	1 24.21	+ 5 47.9	2.581	1.626	8.8	19.1	14 W	—	8*
5	6	1 50.35	+ 8 19.4	2.574	1.636	10.4	19.2	17 W	—	11*
5	16	2 16.48	+10 41.1	2.565	1.650	12.0	19.3	20 W	—	14*
5	26	2 42.57	+12 51.1	2.555	1.666	13.5	19.3	23 W	2*	16*
6	5	3 8.59	+14 47.8	2.542	1.685	15.1	19.4	26 W	4*	19*
6	15	3 34.49	+16 30.1	2.527	1.707	16.6	19.5	29 W	7*	21*
6	25	4 0.19	+17 57.0	2.508	1.730	18.1	19.5	32 W	11*	23*
7	5	4 25.57	+19 8.4	2.485	1.756	19.5	19.6	35 W	15*	25*
7	15	4 50.54	+20 4.2	2.457	1.783	20.9	19.6	39 W	20*	27*
7	25	5 14.92	+20 44.8	2.424	1.811	22.3	19.7	43 W	25*	28*
8	4	5 38.60	+21 11.2	2.385	1.841	23.6	19.7	47 W	30*	30*
8	14	6 1.42	+21 24.5	2.339	1.872	24.8	19.8	51 W	35*	31*
8	24	6 23.22	+21 26.3	2.287	1.904	25.9	19.8	55 W	41*	32*
9	3	6 43.86	+21 18.5	2.229	1.937	26.9	19.8	60 W	46*	33*
9	13	7 3.16	+21 3.1	2.163	1.970	27.7	19.8	65 W	51*	35*
9	23	7 20.96	+20 42.5	2.092	2.004	28.3	19.8	71 W	56*	36*
10	3	7 37.08	+20 19.2	2.014	2.038	28.6	19.7	77 W	60*	38*
10	13	7 51.28	+19 56.0	1.931	2.072	28.6	19.7	84 W	63*	40*
10	23	8 3.31	+19 35.8	1.845	2.106	28.2	19.6	91 W	65*	42*

20/22		α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			58683 1998 AJ_{10}				*(continuation)*			
		h m	° ′			°	m	°	°	°
11	2	8 12.89	+19 21.6	1.757	2.140	27.3	19.5	98 W	64	44*
11	12	8 19.65	+19 16.5	1.669	2.173	25.8	19.4	107 W	64	45*
11	22	8 23.26	+19 23.2	1.586	2.207	23.7	19.2	116 W	64	45
12	2	8 23.39	+19 43.4	1.511	2.240	20.8	19.1	126 W	65	44
12	12	8 19.84	+20 17.7	1.448	2.272	17.1	18.9	137 W	65	44
12	22	8 12.75	+21 3.9	1.403	2.304	12.6	18.7	149 W	66	43
12	27	8 8.05	+21 30.0	1.389	2.320	10.1	18.6	156 W	66	43
1	1	8 2.72	+21 57.2	1.381	2.336	7.5	18.5	162 W	67	42
1	6	7 56.92	+22 24.6	1.380	2.351	4.8	18.4	168 W	67	42
1	11	7 50.85	+22 51.2	1.386	2.366	2.2	18.2	175 W	68	41
1	16	7 44.72	+23 16.4	1.399	2.382	1.0	18.2	177 E	68	41
1	21	7 38.72	+23 39.4	1.419	2.397	3.4	18.4	172 E	69	40
			94623 2001 WD_2							
12	27	19 59.93	− 3 44.1	3.720	2.915	9.8	20.9	30 E	24*	6*
1	6	20 14.58	− 2 57.2	3.774	2.916	8.3	20.9	25 E	19*	—
1	16	20 29.33	− 2 1.9	3.813	2.917	7.0	20.8	21 E	14*	—
1	26	20 44.10	− 0 58.3	3.836	2.916	6.0	20.8	18 E	9*	—
2	5	20 58.81	+ 0 12.9	3.845	2.914	5.6	20.8	17 W	8*	—
2	15	21 13.40	+ 1 31.3	3.839	2.912	5.8	20.8	17 W	11*	—
2	25	21 27.82	+ 2 56.4	3.817	2.908	6.7	20.8	20 W	14*	3*
3	7	21 42.01	+ 4 27.6	3.782	2.903	8.0	20.9	24 W	16*	9*
3	17	21 55.93	+ 6 4.2	3.732	2.898	9.5	20.9	29 W	19*	15*
3	27	22 9.52	+ 7 45.7	3.669	2.892	11.0	20.9	34 W	21*	21*
4	6	22 22.74	+ 9 31.3	3.594	2.884	12.6	20.9	39 W	24*	26*
4	16	22 35.55	+11 20.5	3.506	2.876	14.1	20.9	44 W	26*	31*
4	26	22 47.86	+13 12.7	3.409	2.867	15.6	20.9	50 W	29*	36*
5	6	22 59.63	+15 7.0	3.301	2.856	17.0	20.9	56 W	33*	39*
5	16	23 10.75	+17 3.0	3.185	2.845	18.2	20.8	62 W	36*	42*
5	26	23 21.11	+18 59.8	3.062	2.833	19.3	20.8	67 W	41*	43*
6	5	23 30.59	+20 56.5	2.933	2.820	20.2	20.7	74 W	46*	43*
6	15	23 39.01	+22 52.2	2.800	2.806	20.9	20.6	80 W	52*	41
6	25	23 46.17	+24 45.5	2.664	2.791	21.3	20.5	86 W	59*	39
7	5	23 51.84	+26 34.8	2.528	2.776	21.5	20.4	93 W	66*	37
7	15	23 55.73	+28 17.9	2.392	2.759	21.3	20.2	100 W	72*	36
7	25	23 57.55	+29 51.7	2.261	2.741	20.7	20.1	107 W	75	34
8	4	23 57.02	+31 12.2	2.136	2.723	19.8	19.9	115 W	76	33
8	9	23 55.80	+31 45.9	2.076	2.713	19.1	19.8	119 W	77	32
8	14	23 53.93	+32 14.3	2.020	2.703	18.4	19.7	123 W	77	32
8	19	23 51.41	+32 36.5	1.967	2.693	17.6	19.6	126 W	78	31
8	24	23 48.27	+32 51.8	1.917	2.683	16.7	19.5	130 W	78	31
8	29	23 44.56	+32 59.3	1.871	2.673	15.8	19.5	134 W	78	31
9	3	23 40.34	+32 58.5	1.830	2.662	14.8	19.4	137 W	78	31
9	8	23 35.70	+32 48.5	1.793	2.651	13.9	19.3	141 W	78	31
9	13	23 30.78	+32 29.2	1.762	2.640	13.1	19.2	144 W	77	32
9	18	23 25.71	+32 0.3	1.736	2.629	12.4	19.1	146 E	77	32
9	23	23 20.65	+31 22.3	1.716	2.617	12.0	19.1	147 E	76	33
9	28	23 15.74	+30 35.6	1.702	2.606	11.8	19.1	148 E	76	33
10	3	23 11.14	+29 41.1	1.695	2.594	12.0	19.0	147 E	75	34
10	8	23 6.99	+28 40.0	1.693	2.582	12.5	19.0	146 E	74	35
10	13	23 3.40	+27 33.8	1.697	2.569	13.3	19.1	144 E	73	36
10	18	23 0.47	+26 24.1	1.707	2.557	14.3	19.1	141 E	71	38
10	23	22 58.27	+25 12.6	1.723	2.544	15.4	19.2	137 E	70	39
10	28	22 56.82	+24 0.6	1.743	2.531	16.6	19.2	133 E	69	40
11	2	22 56.15	+22 49.6	1.769	2.518	17.7	19.3	129 E	68	41
11	7	22 56.26	+21 40.9	1.799	2.505	18.9	19.3	125 E	67	42
11	12	22 57.14	+20 35.6	1.833	2.491	19.9	19.4	121 E	66	43
11	17	22 58.76	+19 34.4	1.870	2.478	20.9	19.5	117 E	65	44
11	22	23 1.07	+18 38.0	1.911	2.464	21.7	19.5	113 E	64	45
12	2	23 7.61	+17 0.9	1.998	2.436	23.1	19.6	104 E	62	46*
12	12	23 16.47	+15 45.8	2.092	2.407	24.0	19.7	96 E	61	44*
12	22	23 27.29	+14 52.5	2.189	2.378	24.4	19.8	89 E	60	41*
1	1	23 39.79	+14 19.2	2.286	2.348	24.5	19.9	81 E	59*	37*
1	11	23 53.73	+14 4.1	2.381	2.317	24.1	19.9	74 E	58*	33*
1	21	0 8.89	+14 4.7	2.472	2.286	23.5	20.0	68 E	55*	28*
			138846 2000 VJ_{61}							
12	27	20 0.08	−11 34.4	2.958	2.116	11.7	20.7	26 E	18*	9*
1	6	20 19.87	−10 6.3	3.069	2.182	9.4	20.8	21 E	15*	3*
1	16	20 38.75	− 8 33.2	3.170	2.247	7.3	20.8	17 E	11*	—
1	26	20 56.77	− 6 55.9	3.257	2.310	5.6	20.8	13 E	7*	—
2	5	21 13.98	− 5 15.0	3.332	2.370	4.5	20.9	11 W	2*	—
2	15	21 30.42	− 3 31.1	3.392	2.429	4.4	21.0	11 W	5*	—
2	25	21 46.11	− 1 44.8	3.436	2.486	5.4	21.1	14 W	7*	1*
3	7	22 1.06	+ 0 3.3	3.466	2.541	6.9	21.2	18 W	10*	7*
3	17	22 15.29	+ 1 52.7	3.480	2.594	8.6	21.4	23 W	12*	13*
3	27	22 28.77	+ 3 42.9	3.478	2.645	10.4	21.5	29 W	15*	19*

399630 2004 OH_3

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 27	20 0.13	−19 45.4	2.506	1.643	13.4	21.4	23 E	11*	12*
1 6	20 28.45	−17 48.2	2.524	1.630	11.6	21.4	20 E	10*	9*
1 16	20 56.46	−15 34.4	2.540	1.620	9.9	21.3	16 E	8*	5*
1 26	21 24.09	−13 5.9	2.554	1.613	8.2	21.2	13 E	6*	2*
2 5	21 51.29	−10 24.9	2.568	1.609	6.5	21.2	11 E	4*	—
2 15	22 18.06	− 7 34.1	2.581	1.608	4.8	21.1	8 E	2*	—
2 25	22 44.44	− 4 36.1	2.593	1.610	3.4	21.0	5 E	—	—
3 7	23 10.46	− 1 33.7	2.604	1.616	2.4	21.0	4 E	—	—
3 17	23 36.20	+ 1 30.5	2.615	1.624	2.4	21.0	4 W	—	—
3 27	0 1.71	+ 4 33.6	2.625	1.635	3.5	21.1	6 W	—	—
4 6	0 27.07	+ 7 33.1	2.634	1.649	4.9	21.2	8 W	—	1*
4 16	0 52.35	+10 26.8	2.641	1.666	6.5	21.3	11 W	2*	3*
4 26	1 17.58	+13 12.3	2.646	1.685	8.1	21.4	14 W	3*	6*

3397 Leyla

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 0.20	−37 50.3	3.910	3.050	7.9	19.3	25 E	—	19*
1 6	20 17.87	−36 49.1	3.948	3.050	6.6	19.3	21 E	—	14*
1 16	20 35.39	−35 44.9	3.971	3.049	5.6	19.3	18 E	—	10*
1 26	20 52.68	−34 38.1	3.978	3.047	5.2	19.3	16 E	—	6*
2 5	21 9.67	−33 29.1	3.970	3.044	5.6	19.3	18 W	—	3*
2 15	21 26.32	−32 18.7	3.945	3.040	6.5	19.3	21 W	—	9*
2 25	21 42.56	−31 7.6	3.905	3.035	7.9	19.3	25 W	—	14*
3 7	21 58.37	−29 56.5	3.851	3.030	9.4	19.4	30 W	—	19*
3 17	22 13.70	−28 46.5	3.782	3.023	10.9	19.4	35 W	—	25*
3 27	22 28.52	−27 38.4	3.699	3.015	12.5	19.4	41 W	—	31*
4 6	22 42.78	−26 33.3	3.604	3.007	14.0	19.4	47 W	—	37*
4 16	22 56.45	−25 32.2	3.498	2.997	15.4	19.4	53 W	—	44*
4 26	23 9.44	−24 36.2	3.381	2.987	16.8	19.3	59 W	—	50*
5 6	23 21.69	−23 46.5	3.255	2.976	17.9	19.3	65 W	—	57*
5 16	23 33.12	−23 4.4	3.122	2.964	18.9	19.2	72 W	2*	64*
5 26	23 43.58	−22 31.0	2.983	2.950	19.7	19.1	78 W	5*	72*
6 5	23 52.95	−22 7.7	2.839	2.936	20.1	19.0	85 W	9*	79*
6 15	0 1.03	−21 55.7	2.694	2.921	20.3	18.9	93 W	12*	85*
6 25	0 7.59	−21 56.2	2.550	2.905	20.1	18.8	100 W	16*	86
7 5	0 12.36	−22 9.8	2.408	2.889	19.6	18.6	108 W	19*	86
7 15	0 15.04	−22 36.9	2.273	2.871	18.5	18.4	116 W	21*	87
7 25	0 15.30	−23 16.4	2.147	2.852	17.0	18.2	125 W	22*	87
8 4	0 12.87	−24 6.2	2.035	2.833	15.0	18.0	134 W	21	88
8 14	0 7.55	−25 1.7	1.940	2.812	12.7	17.8	143 W	20	89
8 19	0 3.82	−25 29.6	1.900	2.802	11.4	17.7	147 W	20	89
8 24	23 59.41	−25 56.1	1.866	2.791	10.3	17.6	151 W	19	90
8 29	23 54.40	−26 20.4	1.838	2.780	9.2	17.6	154 W	19	90
9 3	23 48.87	−26 41.2	1.816	2.769	8.5	17.5	156 W	18	89
9 8	23 42.93	−26 57.4	1.801	2.757	8.2	17.5	157 W	18	89
9 13	23 36.74	−27 8.2	1.793	2.746	8.4	17.4	157 W	18	89
9 18	23 30.44	−27 12.7	1.792	2.734	9.1	17.5	155 E	18	89
9 23	23 24.21	−27 10.5	1.797	2.722	10.1	17.5	152 E	18	89
9 28	23 18.19	−27 1.3	1.809	2.709	11.4	17.6	148 E	18	89
10 3	23 12.55	−26 45.3	1.827	2.697	12.8	17.6	143 E	18	89
10 8	23 7.40	−26 22.7	1.850	2.684	14.2	17.7	139 E	19	90
10 13	23 2.86	−25 53.8	1.880	2.671	15.6	17.8	134 E	19	90
10 18	22 59.02	−25 19.2	1.914	2.658	16.9	17.8	129 E	20	89
10 23	22 55.90	−24 39.7	1.952	2.645	18.1	17.9	124 E	20	89
11 2	22 51.94	−23 8.1	2.039	2.618	20.1	18.0	115 E	22	87
11 12	22 50.96	−21 23.5	2.137	2.589	21.6	18.2	106 E	24	85
11 22	22 52.76	−19 29.3	2.241	2.561	22.5	18.3	97 E	26	83*
12 2	22 56.98	−17 28.2	2.348	2.531	22.9	18.4	89 E	28	76*
12 12	23 3.30	−15 21.6	2.454	2.501	22.9	18.4	81 E	30	66*
12 22	23 11.41	−13 10.6	2.557	2.470	22.5	18.5	74 E	32	57*
1 1	23 21.02	−10 55.6	2.655	2.439	21.7	18.5	67 E	34*	49*
1 11	23 31.91	− 8 37.1	2.745	2.406	20.7	18.5	60 E	35*	41*
1 21	23 43.89	− 6 15.4	2.826	2.374	19.4	18.5	53 E	34*	35*

429463 2010 WY_{39}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 0.32	−21 25.7	2.668	1.799	12.0	21.3	22 E	9*	13*
1 6	20 27.06	−20 21.6	2.674	1.770	10.2	21.2	19 E	7*	9*
1 16	20 54.04	−19 0.4	2.674	1.742	8.4	21.1	15 E	5*	6*
1 26	21 21.14	−17 22.9	2.671	1.717	6.5	21.0	11 E	3*	3*
2 5	21 48.26	−15 30.3	2.665	1.695	4.8	20.9	8 E	—	1*
2 15	22 15.33	−13 24.3	2.656	1.674	3.1	20.8	5 E	—	—
2 25	22 42.32	−11 6.8	2.644	1.657	1.9	20.6	3 E	—	—
3 7	23 9.19	− 8 40.2	2.632	1.643	2.0	20.6	3 W	—	—
3 17	23 35.96	− 6 6.8	2.619	1.631	3.3	20.7	5 W	—	—
3 27	0 2.64	− 3 29.4	2.606	1.623	4.8	20.7	8 W	—	1*
4 6	0 29.27	− 0 50.7	2.593	1.619	6.4	20.8	10 W	—	4*
4 16	0 55.87	+ 1 46.6	2.580	1.618	8.0	20.9	13 W	—	7*
4 26	1 22.47	+ 4 19.7	2.567	1.620	9.6	20.9	16 W	—	9*
5 6	1 49.08	+ 6 46.1	2.554	1.626	11.1	21.0	18 W	—	12*
5 16	2 15.71	+ 9 3.4	2.541	1.635	12.7	21.0	21 W	—	15*
5 26	2 42.32	+11 9.5	2.527	1.648	14.2	21.1	23 W	—	17*
6 5	3 8.88	+13 2.6	2.512	1.663	15.6	21.2	26 W	3*	20*

429463 2010 WY_{39} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 15	3 35.33	+14 41.4	2.495	1.682	17.1	21.2	29 W	6*	22*
6 25	4 1.55	+16 4.8	2.476	1.703	18.5	21.3	32 W	9*	24*
7 5	4 27.44	+17 12.3	2.453	1.726	19.9	21.3	35 W	13*	26*
7 15	4 52.89	+18 4.0	2.427	1.752	21.2	21.4	39 W	18*	28*
7 25	5 17.72	+18 40.3	2.396	1.780	22.5	21.4	42 W	23*	29*
8 4	5 41.82	+19 1.9	2.360	1.810	23.8	21.5	46 W	28*	31*

468647 2008 UC_4

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 0.62	−35 43.8	2.428	1.585	14.8	20.1	24 E	—	18*
1 1	20 18.40	−35 19.8	2.423	1.572	14.5	20.0	24 E	—	18*
1 6	20 36.27	−34 47.3	2.419	1.561	14.2	20.0	23 E	—	17*
1 11	20 54.18	−34 6.3	2.415	1.551	13.9	20.0	22 E	—	16*
1 16	21 12.05	−33 16.8	2.412	1.542	13.7	19.9	22 E	—	16*
1 21	21 29.80	−32 19.1	2.409	1.534	13.5	19.9	21 E	—	15*
1 26	21 47.39	−31 13.6	2.407	1.527	13.3	19.9	21 E	—	15*
1 31	22 4.75	−30 0.7	2.406	1.522	13.1	19.9	20 E	—	14*
2 5	22 21.86	−28 40.8	2.406	1.518	12.9	19.9	20 E	—	14*
2 10	22 38.68	−27 14.6	2.407	1.515	12.7	19.9	20 E	—	13*
2 15	22 55.19	−25 42.7	2.410	1.514	12.5	19.9	19 E	—	13*
2 20	23 11.37	−24 6.0	2.414	1.514	12.3	19.9	19 E	—	12*
2 25	23 27.21	−22 25.0	2.420	1.516	12.1	19.8	19 E	—	12*
3 2	23 42.70	−20 40.7	2.427	1.518	11.8	19.9	18 E	—	11*
3 7	23 57.86	−18 53.7	2.436	1.522	11.6	19.9	18 E	—	10*
3 12	0 12.70	−17 4.7	2.446	1.528	11.3	19.9	17 E	—	10*
3 17	0 27.22	−15 14.5	2.458	1.535	11.0	19.9	17 E	—	9*
3 22	0 41.44	−13 23.8	2.471	1.543	10.6	19.9	17 E	—	8*
3 27	0 55.36	−11 33.2	2.485	1.552	10.3	19.9	16 E	—	7*
4 6	1 22.42	− 7 54.4	2.516	1.574	9.7	19.9	15 E	—	5*
4 16	1 48.53	− 4 22.3	2.550	1.600	9.2	20.0	15 E	—	3*
4 26	2 13.79	− 1 0.0	2.585	1.630	8.8	20.0	14 E	—	—
5 6	2 38.33	+ 2 10.4	2.620	1.664	8.8	20.1	15 W	—	3*
5 16	3 2.23	+ 5 7.2	2.653	1.701	9.2	20.2	16 W	—	6*
5 26	3 25.54	+ 7 49.7	2.682	1.740	9.9	20.3	17 W	—	10*
6 5	3 48.30	+10 17.6	2.706	1.782	10.9	20.4	19 W	—	13*
6 15	4 10.54	+12 31.0	2.724	1.826	12.2	20.5	22 W	—	16*
6 25	4 32.25	+14 30.5	2.734	1.871	13.7	20.6	26 W	3*	19*
7 5	4 53.40	+16 16.9	2.735	1.918	15.2	20.7	30 W	8*	22*
7 15	5 13.95	+17 51.2	2.727	1.965	16.7	20.8	34 W	14*	24*
7 25	5 33.85	+19 14.9	2.709	2.014	18.2	20.9	38 W	20*	26*
8 4	5 53.02	+20 29.6	2.681	2.063	19.7	21.0	43 W	27*	28*
8 14	6 11.37	+21 37.0	2.641	2.112	21.1	21.1	49 W	34*	29*
8 24	6 28.78	+22 39.2	2.592	2.161	22.3	21.1	54 W	40*	30*
9 3	6 45.14	+23 38.5	2.533	2.210	23.3	21.1	60 W	47*	31*
9 13	7 0.29	+24 37.4	2.464	2.259	24.1	21.2	66 W	54*	32*
9 23	7 14.04	+25 38.7	2.387	2.308	24.6	21.1	73 W	61*	33*
10 3	7 26.17	+26 45.2	2.304	2.356	24.8	21.1	81 W	67*	33*
10 13	7 36.40	+28 0.1	2.217	2.404	24.5	21.1	88 W	72*	34*
10 23	7 44.39	+29 26.2	2.128	2.451	23.8	21.0	97 W	74	34*
11 2	7 49.78	+31 5.8	2.041	2.498	22.5	20.9	106 W	76	33*
11 12	7 52.11	+32 59.9	1.960	2.544	20.6	20.8	115 W	78	31
11 22	7 50.96	+35 7.4	1.891	2.590	18.1	20.7	125 W	80	29
12 2	7 46.02	+37 23.7	1.837	2.634	15.2	20.6	136 W	82	27
12 12	7 37.20	+39 40.5	1.805	2.678	11.9	20.4	146 W	85	24
12 17	7 31.47	+40 45.7	1.799	2.700	10.3	20.4	151 W	86	23
12 22	7 25.00	+41 46.7	1.800	2.721	8.9	20.4	155 W	87	22
12 27	7 17.95	+42 42.2	1.808	2.742	7.9	20.3	157 W	88	21
1 1	7 10.50	+43 30.9	1.823	2.763	7.4	20.3	159 W	89	20
1 6	7 2.89	+44 12.1	1.846	2.784	7.5	20.4	158 E	89	20
1 11	6 55.37	+44 45.3	1.877	2.805	8.2	20.5	156 E	90	19
1 16	6 48.16	+45 10.6	1.915	2.825	9.2	20.6	153 E	90	19
1 21	6 41.47	+45 28.3	1.959	2.845	10.4	20.7	149 E	90	19

244689 2003 PW_5

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 0.65	−18 30.3	2.515	1.657	13.5	21.1	23 E	12*	12*
1 6	20 29.49	−16 55.2	2.559	1.669	11.6	21.1	20 E	11*	8*
1 16	20 57.59	−15 5.0	2.602	1.685	9.8	21.0	17 E	9*	5*
1 26	21 24.87	−13 2.4	2.644	1.703	7.8	21.0	14 E	7*	2*
2 5	21 51.31	−10 50.1	2.684	1.724	5.9	21.0	10 E	4*	—
2 15	22 16.94	− 8 30.6	2.723	1.747	4.0	21.0	7 E	1*	—
2 25	22 41.77	− 6 6.5	2.758	1.772	2.2	20.9	4 E	—	—
3 7	23 5.87	− 3 40.1	2.790	1.798	1.1	20.9	2 W	—	—
3 17	23 29.31	− 1 13.6	2.817	1.826	2.3	21.0	4 W	—	—
3 27	23 52.13	+ 1 11.3	2.840	1.856	4.2	21.2	8 W	—	1*
4 6	0 14.40	+ 3 32.7	2.856	1.887	6.1	21.3	12 W	—	5*
4 16	0 36.19	+ 5 49.4	2.867	1.919	8.0	21.5	15 W	1*	9*

4276 Clifford

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 0.98	−32 11.4	3.111	2.241	10.0	19.6	23 E	—	17*
1 6	20 23.70	−31 23.2	3.128	2.223	8.3	19.5	19 E	—	13*
1 16	20 46.54	−30 24.1	3.134	2.203	6.9	19.4	16 E	—	9*
1 26	21 9.40	−29 14.8	3.129	2.183	6.0	19.3	13 E	—	6*

4276 Clifford *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 5	21 32.20	−27 55.7	3.113	2.162	5.7	19.3	13 E	—	3*
2 15	21 54.92	−26 27.7	3.087	2.140	6.3	19.3	14 E	—	1*
2 25	22 17.48	−24 51.7	3.051	2.118	7.4	19.3	16 W	—	4*
3 7	22 39.90	−23 8.7	3.007	2.095	8.9	19.3	19 W	—	8*
3 17	23 2.16	−21 19.7	2.954	2.072	10.6	19.3	23 W	—	12*
3 27	23 24.28	−19 25.8	2.895	2.048	12.4	19.3	26 W	—	16*
4 6	23 46.27	−17 28.2	2.829	2.023	14.3	19.3	30 W	—	20*
4 16	0 8.18	−15 28.0	2.757	1.999	16.1	19.3	34 W	—	25*
4 26	0 30.01	−13 26.5	2.680	1.974	17.9	19.2	37 W	—	29*
5 6	0 51.81	−11 24.7	2.599	1.949	19.7	19.2	41 W	—	33*
5 16	1 13.62	− 9 23.7	2.515	1.924	21.5	19.2	44 W	—	37*
5 26	1 35.43	− 7 24.7	2.428	1.898	23.2	19.1	48 W	—	41*
6 5	1 57.29	− 5 28.7	2.338	1.873	24.9	19.1	51 W	2*	45*
6 15	2 19.20	− 3 36.6	2.246	1.849	26.5	19.0	54 W	6*	48*
6 25	2 41.13	− 1 49.4	2.152	1.824	28.1	18.9	58 W	11*	51*
7 5	3 3.10	− 0 7.5	2.057	1.800	29.6	18.8	61 W	16*	53*
7 15	3 25.05	+ 1 28.3	1.961	1.777	31.1	18.7	64 W	21*	55*
7 25	3 46.94	+ 2 57.9	1.864	1.754	32.4	18.6	68 W	27*	55*
8 4	4 8.70	+ 4 21.6	1.766	1.733	33.7	18.5	71 W	33*	56*
8 14	4 30.24	+ 5 39.6	1.667	1.712	34.9	18.4	75 W	38*	56*
8 24	4 51.45	+ 6 53.1	1.567	1.693	35.9	18.3	79 W	44*	55*
9 3	5 12.19	+ 8 3.8	1.468	1.675	36.7	18.1	83 W	48*	55*
9 13	5 32.29	+ 9 14.0	1.368	1.659	37.3	18.0	87 W	52*	54*
9 23	5 51.54	+10 27.1	1.269	1.645	37.6	17.8	92 W	55*	53*
10 3	6 9.69	+11 47.6	1.171	1.632	37.5	17.6	97 W	57	52*
10 13	6 26.40	+13 21.2	1.075	1.622	36.9	17.4	103 W	58	51
10 18	6 34.09	+14 15.3	1.029	1.617	36.3	17.3	106 W	59	50
10 23	6 41.26	+15 15.5	0.983	1.613	35.6	17.2	109 W	60	49
10 28	6 47.84	+16 23.0	0.939	1.610	34.7	17.0	113 W	61	48
11 2	6 53.74	+17 39.0	0.896	1.607	33.5	16.9	117 W	63	46
11 7	6 58.86	+19 4.6	0.855	1.605	32.2	16.7	121 W	64	45
11 12	7 3.10	+20 41.0	0.817	1.603	30.5	16.6	125 W	66	43
11 17	7 6.37	+22 28.9	0.781	1.602	28.6	16.4	129 W	67	42
11 22	7 8.55	+24 28.8	0.749	1.601	26.3	16.3	134 W	69	40
11 27	7 9.52	+26 40.5	0.720	1.601	23.9	16.1	139 W	72	37
12 2	7 9.16	+29 2.9	0.695	1.602	21.2	16.0	144 W	74	35
12 7	7 7.38	+31 34.0	0.676	1.603	18.4	15.8	149 W	77	32
12 12	7 4.16	+34 10.4	0.661	1.605	15.7	15.7	154 W	79	30
12 17	6 59.55	+36 47.7	0.652	1.607	13.3	15.6	158 W	82	27
12 22	6 53.67	+39 20.9	0.649	1.610	11.8	15.5	160 W	84	25
12 27	6 46.77	+41 44.8	0.652	1.614	11.5	15.5	161 W	87	22
1 1	6 39.19	+43 54.9	0.661	1.618	12.5	15.6	159 E	89	20
1 6	6 31.41	+45 47.9	0.675	1.622	14.5	15.7	156 E	89	18
1 11	6 23.96	+47 22.1	0.694	1.627	16.8	15.9	151 E	88	17
1 16	6 17.34	+48 37.5	0.719	1.633	19.3	16.0	147 E	86	15
1 21	6 11.94	+49 35.3	0.747	1.639	21.6	16.2	142 E	85	14

356520 2011 SV_{87}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 1.21	−19 14.6	2.506	1.647	13.5	21.5	23 E	11*	12*
1 6	20 29.98	−17 35.1	2.542	1.652	11.7	21.4	20 E	10*	9*
1 16	20 58.14	−15 40.0	2.577	1.660	9.8	21.4	17 E	8*	6*
1 26	21 25.61	−13 31.6	2.611	1.670	8.0	21.4	14 E	6*	3*
2 5	21 52.35	−11 12.6	2.643	1.683	6.1	21.3	10 E	4*	—
2 15	22 18.38	− 8 45.5	2.673	1.697	4.2	21.3	7 E	1*	—
2 25	22 43.74	− 6 12.9	2.700	1.714	2.4	21.2	4 E	—	—
3 7	23 8.46	− 3 37.3	2.725	1.733	1.0	21.1	2 W	—	—
3 17	23 32.63	− 1 0.9	2.746	1.754	2.0	21.2	3 W	—	—
3 27	23 56.30	+ 1 34.2	2.763	1.776	3.8	21.4	7 W	—	—

507411 2012 MQ_6

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 1.91	−34 11.1	2.621	1.769	13.1	20.8	24 E	—	18*
1 6	20 33.05	−33 33.1	2.619	1.744	12.1	20.7	22 E	—	16*
1 16	21 4.57	−32 30.5	2.613	1.722	11.3	20.7	20 E	—	14*
1 26	21 36.14	−31 3.8	2.606	1.703	10.7	20.6	19 E	—	12*
2 5	22 7.45	−29 14.1	2.598	1.688	10.4	20.6	18 E	—	11*
2 15	22 38.30	−27 3.7	2.590	1.676	10.3	20.5	18 E	—	10*
2 25	23 8.49	−24 35.5	2.584	1.668	10.4	20.5	18 E	—	9*
3 7	23 37.93	−21 53.0	2.580	1.664	10.5	20.5	18 E	—	7*
3 17	0 6.56	−18 59.9	2.579	1.663	10.8	20.5	18 E	—	6*
3 27	0 34.38	−16 0.2	2.581	1.667	11.1	20.6	19 E	—	5*
4 6	1 1.41	−12 57.8	2.585	1.674	11.4	20.6	19 E	—	3*
4 16	1 27.69	− 9 56.1	2.592	1.685	11.8	20.6	20 W	—	5*
4 26	1 53.26	− 6 58.6	2.600	1.700	12.3	20.7	21 W	—	7*
5 6	2 18.18	− 4 7.7	2.609	1.718	12.8	20.7	22 W	—	11*
5 16	2 42.48	− 1 25.8	2.617	1.739	13.5	20.8	24 W	—	14*
5 26	3 6.18	+ 1 5.6	2.623	1.763	14.3	20.8	25 W	—	17*
6 5	3 29.31	+ 3 25.3	2.626	1.790	15.2	20.9	28 W	—	21*
6 15	3 51.86	+ 5 32.8	2.624	1.819	16.3	21.0	30 W	—	24*
6 25	4 13.81	+ 7 27.9	2.617	1.851	17.4	21.0	33 W	1*	27*
7 5	4 35.14	+ 9 10.8	2.603	1.884	18.7	21.1	36 W	6*	30*
7 15	4 55.80	+10 42.0	2.582	1.919	19.9	21.2	40 W	12*	32*

507411 2012 MQ_6 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 25	5 15.71	+12 2.7	2.552	1.956	21.2	21.2	44 W	19*	34*
8 4	5 34.82	+13 13.9	2.514	1.994	22.4	21.3	49 W	25*	36*
8 14	5 53.01	+14 17.2	2.466	2.032	23.6	21.3	53 W	32*	38*
8 24	6 10.18	+15 14.4	2.410	2.072	24.6	21.3	59 W	39*	39*
9 3	6 26.19	+16 7.7	2.344	2.112	25.5	21.3	64 W	45*	40*
9 13	6 40.87	+16 59.5	2.270	2.153	26.1	21.3	70 W	51*	41*
9 23	6 54.02	+17 52.6	2.189	2.194	26.5	21.3	77 W	57*	42*
10 3	7 5.41	+18 50.0	2.102	2.236	26.4	21.3	84 W	62*	43*
10 13	7 14.72	+19 54.9	2.012	2.277	26.0	21.2	92 W	65*	43*
10 23	7 21.63	+21 10.9	1.920	2.318	25.0	21.1	101 W	66	43*
11 2	7 25.75	+22 40.7	1.831	2.360	23.3	21.0	110 W	68	41
11 12	7 26.65	+24 26.3	1.749	2.401	21.0	20.8	120 W	69	40
11 22	7 24.00	+26 27.4	1.680	2.441	17.9	20.7	131 W	71	38
12 2	7 17.62	+28 40.4	1.628	2.482	14.1	20.5	142 W	74	35
12 12	7 7.69	+30 57.8	1.600	2.522	9.9	20.4	154 W	76	33
12 17	7 1.62	+32 4.7	1.596	2.541	7.8	20.3	160 W	77	32
12 22	6 55.01	+33 8.7	1.600	2.561	5.9	20.2	165 W	78	31
12 27	6 48.03	+34 8.3	1.611	2.581	4.6	20.2	168 W	79	30
1 1	6 40.89	+35 2.5	1.630	2.600	4.5	20.2	168 E	80	29
1 6	6 33.82	+35 50.5	1.657	2.619	5.6	20.3	165 E	81	28
1 11	6 27.05	+36 32.0	1.692	2.639	7.2	20.5	160 E	82	27
1 16	6 20.77	+37 7.0	1.734	2.658	9.0	20.6	155 E	82	27
1 21	6 15.14	+37 35.8	1.783	2.676	10.8	20.8	149 E	83	26

339280 2004 XQ_{14}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
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*
1 26	21 43.22	−29 33.3	2.426	1.531	12.2	19.9	19 E	—	13*
2 5	22 17.22	−27 32.0	2.414	1.512	12.0	19.8	19 E	—	12*
2 15	22 50.77	−25 4.5	2.405	1.499	11.9	19.8	18 E	—	11*
2 20	23 7.29	−23 42.1	2.402	1.494	11.8	19.8	18 E	—	11*
2 25	23 23.61	−22 14.8	2.401	1.491	11.8	19.8	18 E	—	11*
3 2	23 39.70	−20 43.0	2.401	1.489	11.8	19.8	18 E	—	10*
3 7	23 55.57	−19 7.4	2.403	1.489	11.7	19.8	18 E	—	10*
3 12	0 11.21	−17 28.8	2.406	1.490	11.6	19.8	18 E	—	10*
3 17	0 26.61	−15 47.8	2.412	1.492	11.5	19.8	17 E	—	9*
3 22	0 41.76	−14 5.1	2.418	1.496	11.4	19.8	17 E	—	9*
3 27	0 56.67	−12 21.5	2.427	1.501	11.2	19.8	17 E	—	8*
4 1	1 11.35	−10 37.5	2.436	1.508	11.1	19.8	17 E	—	7*
4 6	1 25.81	− 8 53.8	2.448	1.516	10.9	19.8	17 E	—	7*
4 16	1 54.08	− 5 29.6	2.474	1.536	10.5	19.9	16 E	—	5*
4 26	2 21.53	− 2 13.1	2.505	1.561	10.1	19.9	16 E	—	3*
5 6	2 48.24	+ 0 52.6	2.538	1.590	9.8	20.0	16 W	—	2*
5 16	3 14.26	+ 3 45.0	2.572	1.623	9.8	20.0	16 W	—	4*
5 26	3 39.63	+ 6 22.5	2.605	1.659	10.0	20.1	17 W	—	7*
6 5	4 4.36	+ 8 44.3	2.636	1.699	10.6	20.2	18 W	—	10*
6 15	4 28.48	+10 50.4	2.662	1.741	11.4	20.3	20 W	—	13*
6 25	4 51.97	+12 40.8	2.683	1.786	12.5	20.4	22 W	—	16*
7 5	5 14.80	+14 16.5	2.697	1.832	13.8	20.6	25 W	3*	19*
7 15	5 36.95	+15 38.4	2.703	1.879	15.2	20.7	29 W	8*	21*
7 25	5 58.34	+16 48.1	2.699	1.928	16.7	20.8	33 W	14*	23*
8 4	6 18.95	+17 47.1	2.685	1.978	18.1	20.9	37 W	20*	25*
8 14	6 38.70	+18 37.3	2.661	2.028	19.6	20.9	42 W	27*	27*
8 24	6 57.50	+19 20.7	2.627	2.078	20.9	21.0	47 W	33*	28*
9 3	7 15.28	+19 59.6	2.581	2.129	22.2	21.1	53 W	40*	30*
9 13	7 31.93	+20 36.5	2.525	2.180	23.2	21.1	59 W	46*	31*
9 23	7 47.30	+21 14.0	2.460	2.230	24.1	21.1	65 W	52*	33*
10 3	8 1.27	+21 55.0	2.386	2.280	24.6	21.1	72 W	59*	34*
10 13	8 13.63	+22 42.7	2.304	2.330	24.9	21.1	79 W	64*	35*
10 23	8 24.15	+23 40.3	2.218	2.380	24.7	21.1	87 W	68*	36*
11 2	8 32.55	+24 50.9	2.129	2.429	24.0	21.0	95 W	70	37*
11 12	8 38.48	+26 17.5	2.041	2.477	22.8	20.9	104 W	71	37*
11 22	8 41.58	+28 1.7	1.958	2.524	21.0	20.8	114 W	73	36*
12 2	8 41.47	+30 3.3	1.886	2.571	18.5	20.7	124 W	75	34
12 12	8 37.85	+32 19.1	1.829	2.617	15.5	20.6	135 W	77	32
12 22	8 30.67	+34 42.0	1.793	2.663	12.1	20.4	145 W	80	29
12 27	8 25.83	+35 52.8	1.785	2.685	10.4	20.4	151 W	81	28
1 1	8 20.27	+37 1.2	1.783	2.707	8.8	20.3	155 W	82	27
1 6	8 14.10	+38 5.7	1.789	2.729	7.5	20.3	159 W	83	26
1 11	8 7.51	+39 4.8	1.802	2.751	6.7	20.3	161 W	84	25
1 16	8 0.69	+39 57.3	1.824	2.772	6.7	20.3	161 W	85	24
1 21	7 53.85	+40 42.6	1.852	2.793	7.3	20.4	159 E	86	23

153415 2001 QP_{153}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 2.26	−16 30.4	1.780	0.970	24.5	19.4	24 E	14*	12*
1 1	20 17.44	−13 41.1	1.804	0.986	23.6	19.5	24 E	15*	9*
1 6	20 31.88	−10 52.7	1.825	1.000	22.8	19.5	23 E	16*	6*
1 11	20 45.77	− 8 5.4	1.844	1.014	22.2	19.5	23 E	16*	4*
1 16	20 59.23	− 5 19.3	1.860	1.027	21.8	19.6	23 E	17*	1*

153415 2001 QP_{153} *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 26	21 25.39	+ 0 10.0	1.883	1.048	21.4	19.6	23 E	17*	—
2 5	21 51.22	+ 5 36.5	1.894	1.064	21.7	19.7	23 E	16*	—
2 15	22 17.54	+11 1.1	1.893	1.075	22.4	19.7	25 E	15*	—
2 25	22 45.07	+16 23.6	1.883	1.081	23.5	19.8	26 E	14*	—
3 7	23 14.64	+21 41.9	1.866	1.082	24.7	19.8	27 E	14*	—
3 12	23 30.48	+24 18.0	1.855	1.080	25.4	19.8	28 E	14*	—
3 17	23 47.18	+26 51.0	1.844	1.077	26.0	19.8	28 E	14*	—
3 22	0 4.85	+29 19.5	1.832	1.072	26.6	19.8	29 E	14*	—
3 27	0 23.64	+31 41.9	1.819	1.066	27.2	19.8	29 E	15*	—
4 1	0 43.64	+33 56.4	1.807	1.059	27.7	19.7	30 E	16*	—
4 6	1 4.98	+36 0.8	1.795	1.051	28.2	19.7	30 E	16*	—
4 11	1 27.70	+37 52.5	1.784	1.041	28.5	19.7	30 E	17*	—
4 16	1 51.81	+39 28.9	1.774	1.030	28.8	19.7	30 E	18*	—
4 21	2 17.23	+40 47.1	1.765	1.018	29.0	19.6	29 E	19*	—
4 26	2 43.78	+41 44.2	1.757	1.004	29.1	19.6	29 E	19*	—
5 1	3 11.20	+42 18.0	1.750	0.990	29.1	19.6	29 E	20*	—
5 6	3 39.13	+42 26.5	1.744	0.974	29.0	19.5	28 E	20*	—
5 11	4 7.14	+42 8.8	1.739	0.958	28.7	19.5	27 E	20*	—
5 16	4 34.79	+41 24.7	1.735	0.940	28.3	19.4	26 E	20*	—
5 21	5 1.69	+40 15.0	1.731	0.922	27.9	19.4	25 E	19*	—
5 26	5 27.51	+38 40.9	1.728	0.903	27.3	19.3	24 E	18*	—
5 31	5 52.05	+36 44.6	1.724	0.884	26.6	19.2	23 E	17*	2*
6 5	6 15.21	+34 28.1	1.719	0.864	25.9	19.1	22 E	15*	4*
6 10	6 36.97	+31 53.8	1.713	0.844	25.2	19.1	21 E	13*	6*
6 15	6 57.38	+29 4.0	1.706	0.824	24.6	19.0	20 E	10*	7*
6 20	7 16.55	+26 0.5	1.695	0.805	24.2	18.9	19 E	8*	9*
6 25	7 34.61	+22 45.2	1.682	0.786	24.1	18.8	18 E	5*	10*
6 30	7 51.74	+19 19.7	1.665	0.768	24.4	18.8	18 E	2*	11*
7 5	8 8.12	+15 45.3	1.645	0.751	25.3	18.7	18 E	—	12*
7 10	8 23.94	+12 3.4	1.619	0.737	26.7	18.7	19 E	—	13*
7 15	8 39.42	+ 8 15.1	1.589	0.724	28.8	18.7	20 E	—	14*
7 20	8 54.76	+ 4 21.5	1.554	0.714	31.5	18.7	22 E	—	14*
7 25	9 10.21	+ 0 23.9	1.514	0.706	34.7	18.7	23 E	—	14*
7 30	9 26.06	− 3 36.5	1.470	0.702	38.2	18.7	25 E	—	15*
8 4	9 42.61	− 7 38.1	1.422	0.701	41.9	18.7	27 E	—	15*
8 9	10 0.23	−11 39.4	1.371	0.703	45.7	18.8	30 E	—	16*
8 14	10 19.29	−15 37.8	1.318	0.708	49.5	18.8	32 E	—	17*
8 19	10 40.24	−19 30.4	1.266	0.716	53.0	18.8	34 E	—	18*
8 24	11 3.54	−23 12.7	1.214	0.727	56.3	18.9	37 E	—	20*
8 29	11 29.62	−26 39.0	1.166	0.740	59.1	18.9	39 E	—	22*
9 3	11 58.84	−29 41.7	1.122	0.755	61.4	18.9	41 E	—	25*
9 5	12 11.43	−30 46.3	1.107	0.762	62.1	18.9	42 E	—	26*
9 7	12 24.53	−31 45.0	1.092	0.769	62.8	19.0	43 E	—	27*
9 9	12 38.11	−32 37.2	1.079	0.776	63.4	19.0	43 E	—	28*
9 11	12 52.15	−33 22.4	1.066	0.783	63.8	19.0	44 E	—	29*
9 13	13 6.57	−34 0.1	1.055	0.790	64.2	19.0	45 E	—	31*
9 15	13 21.33	−34 29.6	1.046	0.798	64.5	19.0	46 E	—	32*
9 17	13 36.35	−34 50.7	1.038	0.805	64.7	19.0	46 E	—	33*
9 19	13 51.52	−35 3.0	1.031	0.813	64.7	19.0	47 E	—	35*
9 21	14 6.78	−35 6.6	1.026	0.821	64.7	19.0	48 E	—	36*
9 23	14 22.00	−35 1.3	1.023	0.829	64.6	19.0	48 E	—	37*
9 25	14 37.11	−34 47.5	1.021	0.837	64.5	19.0	49 E	—	39*
9 27	14 52.00	−34 25.5	1.020	0.845	64.2	19.1	49 E	—	40*
9 29	15 6.61	−33 55.7	1.021	0.853	63.9	19.1	50 E	—	41*
10 1	15 20.84	−33 18.8	1.023	0.861	63.5	19.1	50 E	—	42*
10 3	15 34.67	−32 35.4	1.027	0.869	63.1	19.1	51 E	—	43*
10 5	15 48.02	−31 46.2	1.032	0.877	62.6	19.1	51 E	2*	44*
10 7	16 0.89	−30 52.0	1.038	0.884	62.1	19.1	51 E	4*	45*
10 9	16 13.25	−29 53.5	1.045	0.892	61.5	19.1	52 E	5*	45*
10 11	16 25.09	−28 51.4	1.054	0.900	60.9	19.2	52 E	7*	46*
10 13	16 36.42	−27 46.3	1.063	0.908	60.2	19.2	52 E	9*	46*
10 18	17 2.58	−24 54.8	1.090	0.926	58.6	19.2	52 E	13*	46*
10 23	17 25.90	−21 56.7	1.121	0.945	56.8	19.3	53 E	17*	46*
10 28	17 46.78	−18 57.9	1.156	0.962	55.1	19.3	53 E	20*	44*
11 2	18 5.62	−16 2.0	1.191	0.978	53.3	19.4	52 E	23*	43*
11 7	18 22.79	−13 11.0	1.228	0.993	51.7	19.4	52 E	26*	40*
11 12	18 38.62	−10 26.1	1.264	1.008	50.1	19.5	51 E	29*	37*
11 17	18 53.37	− 7 47.2	1.299	1.021	48.7	19.5	51 E	31*	34*
11 22	19 7.27	− 5 14.3	1.332	1.033	47.3	19.6	50 E	34*	31*
12 2	19 33.31	− 0 24.2	1.391	1.053	45.0	19.6	49 E	37*	24*
12 12	19 57.99	+ 4 9.9	1.437	1.068	43.3	19.7	48 E	39*	17*
12 22	20 22.23	+ 8 33.7	1.468	1.078	42.1	19.7	47 E	41*	10*
1 1	20 46.84	+12 51.6	1.485	1.082	41.5	19.8	47 E	41*	4*
1 11	21 12.58	+17 7.2	1.487	1.081	41.4	19.7	47 E	40*	—
1 21	21 40.21	+21 22.0	1.475	1.074	41.8	19.7	47 E	39*	—

239390 2007 TA_{15}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 27	20 2.75	− 5 42.4	2.270	1.497	19.0	20.1	30 E	23*	7*
1 6	20 34.17	− 4 34.7	2.295	1.495	17.7	20.1	28 E	21*	4*
1 16	21 5.49	− 3 13.3	2.325	1.497	16.4	20.1	25 E	19*	2*
1 26	21 36.52	− 1 40.9	2.358	1.503	14.9	20.1	23 E	17*	—
2 5	22 7.11	− 0 0.1	2.396	1.514	13.3	20.1	21 E	15*	—
2 15	22 37.19	+ 1 46.0	2.436	1.529	11.6	20.1	18 E	12*	—
2 25	23 6.69	+ 3 34.5	2.479	1.547	9.8	20.1	15 E	9*	—
3 7	23 35.57	+ 5 22.4	2.523	1.570	7.9	20.0	13 E	6*	—
3 17	0 3.86	+ 7 7.4	2.567	1.595	6.0	20.0	10 E	3*	—
3 27	0 31.55	+ 8 47.2	2.610	1.624	4.1	20.0	7 E	—	—
4 6	0 58.67	+10 19.6	2.651	1.655	2.4	20.0	4 W	—	—
4 16	1 25.24	+11 43.3	2.689	1.688	1.9	20.0	3 W	—	—
4 26	1 51.26	+12 56.8	2.722	1.723	3.2	20.2	5 W	—	—
5 6	2 16.75	+13 58.9	2.750	1.760	5.0	20.3	9 W	—	3*
5 16	2 41.69	+14 49.1	2.772	1.798	7.0	20.5	12 W	—	6*
5 26	3 6.06	+15 26.4	2.786	1.837	8.9	20.6	16 W	—	10*
6 5	3 29.82	+15 50.6	2.794	1.877	10.9	20.8	20 W	1*	14*
6 15	3 52.93	+16 1.4	2.793	1.917	12.8	20.9	25 W	4*	18*
6 25	4 15.31	+15 58.7	2.783	1.958	14.6	21.0	29 W	7*	22*
7 5	4 36.92	+15 42.5	2.765	1.998	16.3	21.1	34 W	11*	25*
7 15	4 57.67	+15 13.2	2.738	2.039	18.0	21.2	38 W	15*	29*
7 25	5 17.47	+14 30.9	2.702	2.080	19.5	21.2	43 W	20*	32*
8 4	5 36.23	+13 36.2	2.658	2.120	20.9	21.3	48 W	25*	36*
8 14	5 53.85	+12 29.5	2.604	2.160	22.1	21.3	53 W	30*	39*
8 24	6 10.20	+11 11.3	2.543	2.200	23.2	21.3	59 W	36*	42*
9 3	6 25.18	+ 9 42.4	2.473	2.239	24.1	21.3	65 W	40*	45*
9 13	6 38.61	+ 8 3.4	2.398	2.277	24.7	21.3	71 W	44*	49*
9 23	6 50.31	+ 6 15.4	2.316	2.315	25.0	21.3	77 W	47*	53*
10 3	7 0.11	+ 4 19.4	2.231	2.352	25.0	21.3	84 W	48*	56*
10 13	7 7.73	+ 2 16.9	2.144	2.388	24.7	21.2	91 W	47	60*
10 23	7 12.95	+ 0 10.2	2.058	2.423	23.9	21.1	99 W	45	64*
11 2	7 15.50	− 1 58.0	1.975	2.457	22.7	21.0	107 W	43	66
11 12	7 15.14	− 4 3.6	1.900	2.491	21.0	20.9	115 W	41	68
11 22	7 11.79	− 6 0.9	1.835	2.523	19.0	20.8	124 W	39	70
12 2	7 5.54	− 7 43.6	1.786	2.555	16.6	20.7	132 W	37	72
12 12	6 56.77	− 9 4.1	1.756	2.585	14.3	20.6	139 W	36	73
12 22	6 46.27	− 9 56.1	1.749	2.615	12.5	20.5	145 W	35	74
1 1	6 35.08	−10 15.9	1.766	2.643	11.8	20.6	147 E	35	74
1 11	6 24.40	−10 3.3	1.809	2.670	12.4	20.7	144 E	35	74
1 21	6 15.30	− 9 22.7	1.875	2.697	13.8	20.8	139 E	36	73

365071 2009 *AV*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 2.84	−15 0.8	1.909	1.098	22.1	20.8	25 E	15*	11*
1 6	20 38.31	−16 32.0	1.937	1.092	19.9	20.7	22 E	12*	10*
1 16	21 13.75	−17 37.0	1.957	1.084	17.9	20.7	20 E	9*	10*
1 26	21 49.29	−18 16.4	1.967	1.075	16.4	20.6	18 E	6*	10*
2 5	22 25.10	−18 30.6	1.967	1.065	15.8	20.6	17 E	4*	10*
2 15	23 1.36	−18 19.5	1.956	1.054	16.1	20.5	17 E	1*	11*
2 25	23 38.23	−17 42.7	1.936	1.042	17.2	20.5	18 E	—	12*
3 7	0 15.84	−16 39.4	1.907	1.029	19.0	20.5	20 E	—	13*
3 17	0 54.33	−15 8.5	1.873	1.017	21.1	20.5	22 E	—	15*
3 27	1 33.71	−13 9.6	1.837	1.004	23.4	20.5	24 E	—	17*
4 6	2 13.96	−10 42.7	1.802	0.992	25.4	20.5	25 E	—	18*
4 16	2 54.96	− 7 49.9	1.771	0.982	27.2	20.5	27 E	—	19*
4 26	3 36.52	− 4 35.6	1.749	0.972	28.4	20.5	27 E	—	20*
5 6	4 18.37	− 1 6.3	1.737	0.964	29.0	20.5	28 E	—	21*
5 11	4 39.33	+ 0 41.4	1.735	0.961	29.1	20.5	28 E	—	21*
5 16	5 0.26	+ 2 29.4	1.735	0.959	29.1	20.5	27 E	—	21*
5 21	5 21.14	+ 4 16.6	1.739	0.956	28.8	20.5	27 E	—	21*
5 26	5 41.94	+ 6 1.9	1.745	0.955	28.4	20.5	27 E	—	21*
5 31	6 2.63	+ 7 44.1	1.753	0.954	27.9	20.5	26 E	—	20*
6 5	6 23.21	+ 9 22.3	1.763	0.954	27.3	20.4	26 E	—	20*
6 10	6 43.67	+10 55.7	1.774	0.954	26.6	20.4	25 E	—	19*
6 15	7 3.99	+12 23.4	1.786	0.955	25.8	20.4	24 E	—	18*
6 25	7 44.23	+14 59.6	1.812	0.958	24.2	20.4	23 E	1*	16*
7 5	8 23.98	+17 7.5	1.836	0.964	22.6	20.4	21 E	3*	15*
7 15	9 3.32	+18 45.0	1.857	0.971	21.4	20.4	20 E	5*	13*
7 25	9 42.37	+19 51.0	1.871	0.981	20.8	20.4	20 E	7*	11*
8 4	10 21.25	+20 24.8	1.878	0.991	20.9	20.5	20 E	10*	10*
8 14	11 0.07	+20 26.2	1.877	1.003	21.6	20.5	21 E	12*	9*
8 24	11 38.90	+19 55.2	1.869	1.015	22.7	20.6	23 E	15*	9*
9 3	12 17.81	+18 52.1	1.856	1.028	24.1	20.6	25 E	17*	8*
9 13	12 56.82	+17 17.9	1.840	1.040	25.5	20.7	26 E	20*	8*
9 23	13 35.89	+15 14.7	1.824	1.052	26.8	20.7	28 E	22*	8*
10 3	14 14.98	+12 45.7	1.810	1.064	27.8	20.8	30 E	23*	9*
10 13	14 54.02	+ 9 55.6	1.801	1.074	28.4	20.8	31 E	24*	9*
10 23	15 32.89	+ 6 51.0	1.800	1.083	28.6	20.8	31 E	25*	9*
11 2	16 11.50	+ 3 39.2	1.807	1.091	28.3	20.8	31 E	25*	9*
11 12	16 49.74	+ 0 28.0	1.823	1.097	27.5	20.8	31 E	24*	8*
11 22	17 27.52	− 2 35.2	1.847	1.102	26.3	20.8	30 E	23*	7*
12 2	18 4.79	− 5 24.4	1.877	1.105	24.6	20.8	28 E	21*	6*

365071 2009 *AV* *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 12	18 41.53	− 7 55.2	1.910	1.106	22.6	20.8	26 E	19*	5*
12 22	19 17.74	−10 4.8	1.944	1.105	20.2	20.8	23 E	16*	4*
1 1	19 53.48	−11 52.1	1.976	1.103	17.6	20.7	20 E	13*	3*
1 11	20 28.87	−13 16.6	2.003	1.099	15.0	20.6	17 E	10*	3*
1 21	21 4.01	−14 19.0	2.023	1.093	12.4	20.6	14 E	7*	2*

307067 2002 AJ_{10}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 3.34	−28 7.1	3.051	2.180	10.1	19.9	23 E	4*	16*
1 6	20 23.95	−25 56.7	3.050	2.135	8.1	19.7	18 E	3*	11*
1 16	20 44.57	−23 35.9	3.039	2.090	5.9	19.6	13 E	—	6*
1 26	21 5.14	−21 4.4	3.017	2.046	3.8	19.4	8 E	—	2*
2 5	21 25.65	−18 22.0	2.984	2.001	1.8	19.2	4 E	—	—
2 15	21 46.11	−15 28.4	2.943	1.958	1.7	19.1	3 W	—	—
2 25	22 6.54	−12 23.8	2.894	1.915	3.7	19.2	7 W	—	1*
3 7	22 26.99	− 9 8.1	2.837	1.874	5.9	19.2	11 W	—	5*
3 17	22 47.54	− 5 41.6	2.774	1.834	8.2	19.2	15 W	1*	9*
3 27	23 8.27	− 2 4.6	2.707	1.795	10.5	19.2	19 W	4*	13*
4 6	23 29.31	+ 1 42.4	2.636	1.758	12.8	19.2	23 W	6*	16*
4 16	23 50.81	+ 5 38.6	2.563	1.724	15.0	19.2	26 W	9*	19*
4 26	0 12.92	+ 9 42.6	2.490	1.692	17.2	19.1	30 W	12*	22*
5 6	0 35.86	+13 52.9	2.418	1.663	19.2	19.1	33 W	15*	23*
5 16	0 59.86	+18 7.0	2.348	1.637	21.1	19.1	36 W	18*	25*
5 26	1 25.16	+22 21.6	2.281	1.615	22.9	19.0	38 W	21*	25*
5 31	1 38.40	+24 27.8	2.250	1.605	23.8	19.0	40 W	23*	25*
6 5	1 52.07	+26 32.6	2.219	1.596	24.6	19.0	41 W	25*	24*
6 10	2 6.21	+28 35.2	2.190	1.589	25.3	19.0	42 W	27*	24*
6 15	2 20.85	+30 35.0	2.163	1.582	26.0	19.0	43 W	29*	23*
6 20	2 36.02	+32 31.0	2.136	1.577	26.7	18.9	44 W	31*	22*
6 25	2 51.74	+34 22.5	2.112	1.572	27.3	18.9	45 W	33*	21*
6 30	3 8.04	+36 8.7	2.088	1.569	27.9	18.9	46 W	35*	20*
7 5	3 24.91	+37 48.8	2.067	1.567	28.5	18.9	47 W	37*	19*
7 10	3 42.34	+39 21.8	2.046	1.566	29.0	18.9	48 W	39*	18*
7 15	4 0.31	+40 46.9	2.027	1.566	29.5	18.9	49 W	41*	17*
7 20	4 18.75	+42 3.5	2.009	1.568	29.9	18.9	50 W	42*	16*
7 25	4 37.62	+43 10.9	1.992	1.570	30.3	18.9	51 W	44*	15*
7 30	4 56.82	+44 8.6	1.976	1.574	30.7	18.9	52 W	45*	14*
8 4	5 16.25	+44 56.3	1.960	1.579	31.0	18.9	53 W	47*	13*
8 9	5 35.78	+45 33.9	1.945	1.585	31.3	18.9	54 W	48*	12*
8 14	5 55.28	+46 1.5	1.931	1.592	31.6	18.9	55 W	49*	11*
8 19	6 14.59	+46 19.2	1.917	1.600	31.9	18.9	57 W	51*	11*
8 24	6 33.61	+46 27.5	1.903	1.609	32.1	18.9	58 W	52*	10*
8 29	6 52.19	+46 27.1	1.888	1.619	32.3	18.9	59 W	53*	10*
9 3	7 10.24	+46 18.6	1.873	1.630	32.5	18.9	60 W	54*	10*
9 8	7 27.66	+46 3.0	1.858	1.642	32.7	18.9	62 W	56*	10*
9 13	7 44.36	+45 41.2	1.842	1.654	32.9	18.9	63 W	57*	10*
9 18	8 0.28	+45 14.0	1.825	1.668	33.1	18.9	65 W	59*	10*
9 23	8 15.40	+44 42.5	1.807	1.682	33.2	18.9	67 W	60*	10*
10 3	8 43.13	+43 29.8	1.767	1.713	33.4	18.9	70 W	64*	11*
10 13	9 7.41	+42 10.3	1.722	1.747	33.4	18.9	75 W	68*	13*
10 23	9 28.20	+40 49.9	1.671	1.783	33.3	18.9	80 W	74*	15*
11 2	9 45.49	+39 33.5	1.614	1.821	32.9	18.8	85 W	79*	17*
11 12	9 59.12	+38 25.5	1.553	1.861	32.1	18.8	91 W	83*	20*
11 22	10 8.85	+37 28.6	1.488	1.902	30.9	18.7	98 W	82	23*
12 2	10 14.37	+36 44.5	1.421	1.944	29.1	18.6	106 W	82	26*
12 7	10 15.39	+36 27.3	1.389	1.966	28.0	18.5	111 W	81	27*
12 12	10 15.19	+36 12.8	1.358	1.988	26.6	18.5	115 W	81	28*
12 17	10 13.71	+36 0.7	1.328	2.009	25.1	18.4	120 W	81	28
12 22	10 10.92	+35 50.0	1.300	2.031	23.4	18.3	125 W	81	28
12 27	10 6.81	+35 39.9	1.276	2.054	21.4	18.2	130 W	81	28
1 1	10 1.41	+35 29.3	1.255	2.076	19.3	18.2	136 W	80	29
1 6	9 54.78	+35 16.6	1.238	2.098	17.0	18.1	141 W	80	29
1 11	9 47.07	+35 0.3	1.227	2.120	14.6	18.0	147 W	80	29
1 16	9 38.49	+34 39.2	1.221	2.143	12.2	17.9	153 W	80	29
1 21	9 29.31	+34 12.2	1.223	2.165	10.0	17.9	158 W	79	30

330825 2008 XE_3

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
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*
1 26	21 49.59	−11 4.1	2.068	1.191	16.4	19.1	20 E	12*	7*
1 31	22 7.44	− 9 8.7	2.062	1.182	16.3	19.1	20 E	12*	6*
2 5	22 25.29	− 7 8.7	2.058	1.176	16.3	19.1	20 E	12*	5*
2 10	22 43.13	− 5 5.0	2.057	1.172	16.2	19.1	19 E	12*	5*
2 15	23 0.95	− 2 58.6	2.058	1.172	16.1	19.1	19 E	13*	4*
2 20	23 18.75	− 0 50.6	2.063	1.175	16.1	19.1	19 E	13*	4*
2 25	23 36.52	+ 1 17.9	2.070	1.180	16.0	19.1	19 E	13*	4*
3 2	23 54.26	+ 3 25.7	2.080	1.189	15.8	19.1	19 E	13*	3*
3 7	0 11.97	+ 5 31.8	2.094	1.200	15.6	19.2	19 E	13*	3*
3 12	0 29.65	+ 7 35.2	2.110	1.214	15.4	19.2	19 E	13*	3*

330825 2008 XE_3 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 17	0 47.29	+ 9 34.8	2.130	1.230	15.1	19.2	19 E	13*	3*
3 22	1 4.88	+11 29.9	2.153	1.249	14.7	19.3	19 E	12*	3*
3 27	1 22.42	+13 19.6	2.178	1.269	14.3	19.3	18 E	12*	2*
4 6	1 57.28	+16 40.3	2.236	1.317	13.2	19.4	18 E	11*	2*
4 16	2 31.77	+19 33.4	2.303	1.371	12.0	19.5	16 E	10*	2*
4 26	3 5.70	+21 56.7	2.377	1.430	10.5	19.6	15 E	9*	1*
5 6	3 38.90	+23 50.1	2.456	1.493	8.9	19.7	13 E	7*	1*
5 16	4 11.20	+25 14.5	2.538	1.559	7.2	19.8	11 E	5*	—
5 26	4 42.39	+26 11.8	2.620	1.626	5.5	19.9	9 E	2*	—
6 5	5 12.34	+26 44.5	2.701	1.696	3.8	20.0	6 E	—	—
6 15	5 40.95	+26 55.5	2.777	1.766	2.3	20.0	4 E	—	—
6 25	6 8.14	+26 47.7	2.849	1.836	2.1	20.1	4 W	—	—
7 5	6 33.87	+26 23.9	2.914	1.906	3.3	20.3	6 W	—	—
7 15	6 58.16	+25 46.8	2.970	1.976	5.0	20.6	10 W	3*	—
7 25	7 21.01	+24 58.8	3.016	2.045	6.9	20.8	14 W	6*	3*
8 4	7 42.47	+24 2.3	3.051	2.113	8.7	20.9	18 W	11*	6*
8 14	8 2.57	+22 59.2	3.075	2.181	10.6	21.1	23 W	15*	9*
8 24	8 21.34	+21 51.4	3.085	2.247	12.3	21.2	28 W	20*	12*
9 3	8 38.82	+20 40.5	3.082	2.313	14.0	21.4	34 W	25*	15*
9 13	8 55.02	+19 28.2	3.066	2.377	15.6	21.5	39 W	31*	18*

28203 1998 XL_{48}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 4.07	−23 1.9	2.911	2.043	10.9	20.1	23 E	9*	14*
1 6	20 26.87	−21 47.2	2.915	2.006	8.9	19.9	18 E	6*	10*
1 16	20 49.99	−20 19.5	2.909	1.968	6.8	19.8	14 E	4*	6*
1 26	21 13.32	−18 39.0	2.895	1.931	4.8	19.6	9 E	1*	2*
2 5	21 36.83	−16 46.0	2.872	1.893	2.8	19.5	5 E	—	—
2 15	22 0.50	−14 41.2	2.843	1.856	1.3	19.3	2 E	—	—
2 25	22 24.30	−12 25.3	2.807	1.820	2.1	19.3	4 W	—	—
3 7	22 48.25	− 9 59.5	2.765	1.785	3.9	19.3	7 W	—	1*
3 17	23 12.41	− 7 24.9	2.720	1.750	5.9	19.4	10 W	—	4*
3 27	23 36.81	− 4 43.1	2.671	1.717	7.8	19.4	14 W	—	8*
4 6	0 1.52	− 1 55.6	2.620	1.686	9.8	19.4	17 W	—	11*
4 16	0 26.63	+ 0 55.5	2.568	1.656	11.7	19.4	20 W	—	14*
4 26	0 52.22	+ 3 48.1	2.515	1.629	13.5	19.3	22 W	1*	16*
5 6	1 18.38	+ 6 39.9	2.462	1.604	15.3	19.3	25 W	2*	19*
5 16	1 45.20	+ 9 28.1	2.411	1.582	17.0	19.3	27 W	4*	21*
5 26	2 12.72	+12 9.8	2.361	1.562	18.7	19.3	30 W	6*	23*
6 5	2 40.99	+14 42.1	2.312	1.547	20.3	19.3	32 W	9*	24*
6 15	3 10.02	+17 2.0	2.266	1.534	21.8	19.3	34 W	12*	25*
6 25	3 39.75	+19 6.4	2.222	1.526	23.2	19.3	36 W	15*	26*
7 5	4 10.09	+20 52.6	2.179	1.521	24.6	19.2	38 W	19*	27*
7 15	4 40.87	+22 18.5	2.138	1.520	25.9	19.2	41 W	23*	27*
7 25	5 11.86	+23 22.6	2.099	1.523	27.1	19.2	43 W	27*	27*
8 4	5 42.79	+24 4.0	2.059	1.530	28.2	19.2	45 W	31*	27*
8 14	6 13.36	+24 23.2	2.020	1.541	29.3	19.2	48 W	35*	27*
8 24	6 43.28	+24 21.2	1.980	1.555	30.3	19.3	51 W	39*	27*
9 3	7 12.26	+23 59.9	1.938	1.573	31.2	19.3	54 W	43*	27*
9 13	7 40.07	+23 22.2	1.894	1.594	32.1	19.3	57 W	47*	28*
9 23	8 6.48	+22 31.0	1.847	1.618	32.8	19.3	61 W	50*	29*
10 3	8 31.35	+21 30.0	1.797	1.644	33.4	19.3	65 W	54*	30*
10 13	8 54.53	+20 22.8	1.742	1.673	33.9	19.2	69 W	57*	32*
10 23	9 15.86	+19 13.2	1.684	1.704	34.2	19.2	74 W	60*	34*
11 2	9 35.24	+18 4.9	1.621	1.736	34.2	19.2	79 W	62*	37*
11 12	9 52.47	+17 1.9	1.555	1.770	33.9	19.1	85 W	62*	40*
11 22	10 7.34	+16 7.8	1.486	1.805	33.2	19.0	91 W	61	43*
12 2	10 19.57	+15 26.3	1.415	1.841	32.0	18.9	99 W	60	46*
12 12	10 28.80	+15 1.1	1.344	1.877	30.2	18.8	106 W	60	48*
12 22	10 34.65	+14 55.3	1.276	1.915	27.7	18.7	115 W	60	49
1 1	10 36.74	+15 10.6	1.215	1.952	24.4	18.5	125 W	60	49
1 11	10 34.77	+15 47.2	1.164	1.990	20.2	18.3	136 W	61	48
1 21	10 28.82	+16 41.2	1.129	2.027	15.2	18.1	147 W	62	47

52800 1998 QT_{60}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 4.29	−17 20.9	3.417	2.553	9.1	18.8	24 E	13*	12*
1 6	20 20.79	−15 54.1	3.430	2.517	7.1	18.7	18 E	10*	6*
1 16	20 37.58	−14 19.1	3.429	2.480	5.1	18.6	13 E	6*	1*
1 26	20 54.57	−12 35.6	3.413	2.442	3.2	18.4	8 E	2*	—
2 5	21 11.72	−10 43.6	3.383	2.403	2.2	18.3	5 W	—	—
2 15	21 29.00	− 8 42.9	3.341	2.365	3.1	18.3	7 W	1*	—
2 25	21 46.38	− 6 33.5	3.286	2.325	4.9	18.3	12 W	4*	3*
3 7	22 3.87	− 4 15.5	3.220	2.286	7.1	18.4	16 W	6*	8*
3 17	22 21.48	− 1 49.0	3.144	2.246	9.2	18.4	21 W	9*	13*
3 27	22 39.23	+ 0 45.7	3.059	2.205	11.4	18.3	26 W	11*	18*
4 6	22 57.15	+ 3 28.4	2.966	2.165	13.6	18.3	31 W	13*	22*
4 16	23 15.32	+ 6 18.8	2.867	2.125	15.7	18.3	35 W	16*	26*
4 26	23 33.78	+ 9 16.6	2.763	2.085	17.8	18.2	39 W	19*	30*
5 6	23 52.64	+12 21.1	2.655	2.045	19.8	18.2	43 W	21*	33*
5 16	0 12.00	+15 31.7	2.545	2.005	21.8	18.1	47 W	25*	35*
5 26	0 31.97	+18 47.4	2.434	1.966	23.7	18.0	51 W	28*	36*
6 5	0 52.72	+22 7.0	2.323	1.928	25.5	17.9	55 W	33*	36*

52800 1998 QT_{60} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 15	1 14.41	+25 29.0	2.214	1.890	27.2	17.8	58 W	37*	35*
6 25	1 37.20	+28 51.1	2.106	1.854	28.8	17.7	62 W	43*	33*
6 30	1 49.08	+30 31.4	2.054	1.837	29.6	17.7	63 W	45*	32*
7 5	2 1.32	+32 10.7	2.002	1.819	30.4	17.6	65 W	48*	31*
7 10	2 13.94	+33 48.7	1.951	1.803	31.1	17.6	66 W	51*	29*
7 15	2 26.95	+35 24.7	1.901	1.786	31.8	17.5	68 W	54*	28*
7 20	2 40.39	+36 58.3	1.852	1.771	32.5	17.4	69 W	57*	27*
7 25	2 54.26	+38 28.9	1.804	1.755	33.1	17.4	71 W	60*	25*
7 30	3 8.59	+39 56.0	1.757	1.740	33.7	17.3	72 W	62*	24*
8 4	3 23.37	+41 19.0	1.712	1.726	34.3	17.3	74 W	65*	23*
8 9	3 38.60	+42 37.3	1.667	1.713	34.9	17.2	75 W	67*	21*
8 14	3 54.26	+43 50.3	1.623	1.700	35.4	17.2	76 W	69*	20*
8 19	4 10.30	+44 57.3	1.580	1.688	35.9	17.1	78 W	71*	19*
8 24	4 26.69	+45 57.8	1.538	1.676	36.3	17.0	79 W	73*	18*
8 29	4 43.37	+46 51.3	1.496	1.666	36.8	17.0	81 W	75*	17*
9 3	5 0.24	+47 37.6	1.456	1.656	37.1	16.9	82 W	76*	16*
9 8	5 17.20	+48 16.1	1.416	1.647	37.5	16.8	84 W	78*	15*
9 13	5 34.12	+48 46.9	1.377	1.638	37.7	16.8	85 W	79*	15*
9 18	5 50.88	+49 9.7	1.338	1.631	38.0	16.7	87 W	80*	14*
9 23	6 7.35	+49 24.8	1.300	1.624	38.1	16.7	89 W	82*	14*
9 28	6 23.37	+49 32.4	1.262	1.619	38.2	16.6	91 W	83*	14*
10 3	6 38.80	+49 32.9	1.225	1.614	38.3	16.5	92 W	84*	14*
10 8	6 53.50	+49 26.7	1.188	1.611	38.2	16.4	94 W	85*	14*
10 13	7 7.31	+49 14.4	1.151	1.608	38.1	16.4	97 W	86	14*
10 18	7 20.13	+48 56.5	1.115	1.606	37.8	16.3	99 W	86	15*
10 23	7 31.85	+48 33.6	1.079	1.606	37.4	16.2	101 W	86	15*
10 28	7 42.34	+48 6.4	1.043	1.606	36.9	16.1	104 W	87	16*
11 2	7 51.49	+47 35.3	1.008	1.607	36.2	16.0	107 W	87	16*
11 7	7 59.20	+47 0.7	0.973	1.609	35.4	15.9	110 W	88	17*
11 12	8 5.36	+46 22.8	0.939	1.613	34.3	15.8	113 W	89	18*
11 17	8 9.89	+45 41.5	0.906	1.617	33.0	15.7	117 W	89	18
11 22	8 12.73	+44 56.6	0.875	1.622	31.5	15.6	121 W	90	19
11 27	8 13.79	+44 7.6	0.845	1.628	29.7	15.5	125 W	89	20
12 2	8 13.05	+43 13.7	0.817	1.635	27.6	15.4	130 W	88	21
12 7	8 10.49	+42 13.8	0.792	1.643	25.2	15.2	135 W	87	22
12 12	8 6.22	+41 6.5	0.770	1.651	22.4	15.1	140 W	86	23
12 17	8 0.41	+39 50.6	0.752	1.661	19.5	15.0	146 W	85	24
12 22	7 53.32	+38 25.2	0.739	1.671	16.2	14.8	152 W	83	26
12 27	7 45.29	+36 50.1	0.731	1.683	12.8	14.7	158 W	82	27
1 1	7 36.70	+35 5.7	0.728	1.694	9.5	14.6	163 W	80	29
1 6	7 28.01	+33 13.6	0.732	1.707	6.7	14.5	168 W	78	31
1 11	7 19.67	+31 16.2	0.743	1.720	5.5	14.5	170 E	76	33
1 16	7 12.05	+29 16.7	0.760	1.734	6.7	14.6	168 E	74	35
1 21	7 5.42	+27 18.1	0.783	1.749	9.3	14.8	163 E	72	37

386454 2008 XM

12 27	20 4.55	−19 4.0	0.901	0.398	89.8	20.9	24 E	12*	13*
12 29	20 27.98	−17 47.8	0.879	0.455	89.1	21.2	28 E	15*	16*
12 31	20 50.62	−16 24.0	0.865	0.508	87.4	21.3	31 E	18*	18*
1 2	21 12.45	−14 54.0	0.858	0.559	85.1	21.4	35 E	20*	21*
1 4	21 33.36	−13 19.7	0.857	0.608	82.5	21.5	38 E	23*	23*

128353 2004 GK_{39}

12 27	20 4.81	−21 48.1	2.561	1.704	13.3	20.0	23 E	10*	14*
1 6	20 32.92	−20 20.8	2.582	1.691	11.4	19.9	20 E	8*	11*
1 16	21 0.83	−18 36.2	2.599	1.680	9.6	19.8	17 E	7*	7*
1 26	21 28.43	−16 35.9	2.614	1.671	7.8	19.8	13 E	4*	5*
2 5	21 55.63	−14 22.2	2.627	1.665	6.0	19.7	10 E	2*	2*
2 15	22 22.42	−11 57.1	2.637	1.661	4.2	19.6	7 E	—	—
2 25	22 48.78	− 9 23.3	2.646	1.660	2.4	19.5	4 E	—	—
3 7	23 14.73	− 6 43.3	2.653	1.661	1.1	19.4	2 E	—	—
3 17	23 40.34	− 3 59.6	2.658	1.665	1.8	19.4	3 W	—	—
3 27	0 5.64	− 1 14.9	2.661	1.671	3.4	19.6	6 W	—	—
4 6	0 30.69	+ 1 28.5	2.662	1.680	5.1	19.7	9 W	—	3*
4 16	0 55.55	+ 4 8.3	2.661	1.691	6.9	19.8	12 W	—	6*
4 26	1 20.27	+ 6 42.3	2.658	1.704	8.6	19.9	15 W	—	9*
5 6	1 44.87	+ 9 8.7	2.651	1.719	10.4	20.0	18 W	—	12*
5 16	2 9.40	+11 25.8	2.641	1.736	12.1	20.0	21 W	1*	15*
5 26	2 33.83	+13 32.1	2.628	1.755	13.8	20.1	24 W	4*	18*
6 5	2 58.17	+15 26.4	2.610	1.776	15.4	20.2	28 W	6*	21*
6 15	3 22.36	+17 7.8	2.587	1.798	17.0	20.2	31 W	10*	23*
6 25	3 46.34	+18 35.6	2.560	1.821	18.6	20.3	35 W	13*	25*
7 5	4 10.03	+19 49.6	2.526	1.845	20.1	20.3	39 W	18*	27*
7 15	4 33.33	+20 49.8	2.487	1.871	21.6	20.4	43 W	23*	29*
7 25	4 56.09	+21 36.5	2.441	1.897	23.0	20.4	47 W	28*	30*
8 4	5 18.19	+22 10.4	2.389	1.924	24.3	20.4	51 W	34*	32*
8 14	5 39.47	+22 32.5	2.330	1.951	25.5	20.5	56 W	40*	33*
8 24	5 59.75	+22 44.1	2.264	1.979	26.5	20.5	61 W	46*	34*
9 3	6 18.88	+22 46.8	2.192	2.007	27.3	20.4	66 W	51*	35*
9 13	6 36.64	+22 42.5	2.114	2.036	28.0	20.4	72 W	56*	36*
9 23	6 52.81	+22 33.4	2.030	2.064	28.4	20.4	78 W	61*	38*

128353 2004 GK_{39} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 3	7 7.15	+22 21.8	1.941	2.092	28.4	20.3	84 W	65*	39*
10 13	7 19.37	+22 10.3	1.849	2.120	28.1	20.2	91 W	67*	40*
10 23	7 29.13	+22 1.6	1.756	2.148	27.2	20.1	99 W	67	41*
11 2	7 36.09	+21 58.4	1.664	2.176	25.8	20.0	107 W	67	42*
11 12	7 39.81	+22 3.2	1.576	2.203	23.7	19.8	116 W	67	42
11 22	7 39.97	+22 17.4	1.496	2.230	20.8	19.6	127 W	67	42
12 2	7 36.34	+22 41.4	1.428	2.256	17.1	19.4	138 W	68	41
12 12	7 29.00	+23 13.3	1.379	2.282	12.7	19.2	149 W	68	41
12 17	7 24.11	+23 31.0	1.362	2.295	10.2	19.1	156 W	69	40
12 22	7 18.57	+23 49.0	1.352	2.308	7.5	19.0	162 W	69	40
12 27	7 12.54	+24 6.7	1.348	2.320	4.9	18.9	168 W	69	40
1 1	7 6.22	+24 23.3	1.351	2.332	2.2	18.7	175 W	69	40
1 6	6 59.81	+24 38.4	1.362	2.344	1.1	18.7	177 E	70	39
1 11	6 53.55	+24 51.6	1.379	2.356	3.5	18.9	171 E	70	39
1 16	6 47.64	+25 2.7	1.404	2.368	6.1	19.1	165 E	70	39
1 21	6 42.26	+25 11.6	1.435	2.380	8.6	19.3	159 E	70	39

363438 2003 SY_{105}

12 27	20 4.93	−20 38.7	2.517	1.664	13.7	21.3	24 E	11*	14*
1 6	20 33.69	−18 52.9	2.549	1.663	11.9	21.3	20 E	10*	10*
1 16	21 1.90	−16 50.9	2.579	1.665	10.1	21.2	17 E	8*	7*
1 26	21 29.48	−14 35.0	2.608	1.671	8.2	21.2	14 E	6*	4*
2 5	21 56.37	−12 7.9	2.637	1.679	6.4	21.1	11 E	4*	1*
2 15	22 22.59	− 9 32.2	2.663	1.690	4.5	21.1	8 E	1*	—
2 25	22 48.16	− 6 50.7	2.689	1.704	2.7	21.0	5 E	—	—
3 7	23 13.12	− 4 5.8	2.712	1.720	0.9	20.9	2 E	—	—
3 17	23 37.55	− 1 20.1	2.732	1.739	1.3	21.0	2 W	—	—
3 27	0 1.50	+ 1 24.2	2.750	1.760	3.1	21.1	5 W	—	—
4 6	0 25.04	+ 4 5.2	2.765	1.782	5.0	21.3	9 W	—	3*
4 16	0 48.22	+ 6 41.0	2.775	1.807	6.8	21.4	12 W	—	6*

38181 1999 JG_{124}

12 27	20 5.35	−15 1.7	3.081	2.232	10.9	19.5	25 E	15*	12*
1 6	20 26.06	−14 45.5	3.164	2.266	8.6	19.5	20 E	12*	7*
1 16	20 46.36	−14 19.1	3.236	2.299	6.3	19.4	15 E	8*	2*
1 26	21 6.19	−13 44.0	3.297	2.331	3.9	19.4	9 E	3*	—
2 5	21 25.52	−13 1.7	3.346	2.364	1.7	19.3	4 E	—	—
2 15	21 44.37	−12 13.8	3.382	2.395	1.0	19.3	2 W	—	—
2 25	22 2.69	−11 21.8	3.404	2.426	3.1	19.5	8 W	—	1*
3 7	22 20.49	−10 27.2	3.412	2.456	5.3	19.7	13 W	—	7*
3 17	22 37.77	− 9 31.4	3.406	2.486	7.4	19.8	19 W	—	13*
3 27	22 54.52	− 8 35.9	3.387	2.515	9.5	19.9	25 W	2*	19*
4 6	23 10.72	− 7 42.1	3.354	2.543	11.5	20.0	31 W	3*	25*
4 16	23 26.37	− 6 51.2	3.308	2.571	13.4	20.0	36 W	4*	30*
4 26	23 41.43	− 6 4.8	3.249	2.597	15.2	20.1	43 W	6*	37*
5 6	23 55.87	− 5 24.2	3.178	2.623	16.8	20.1	49 W	8*	43*
5 16	0 9.64	− 4 50.9	3.096	2.648	18.2	20.1	55 W	11*	49*
5 26	0 22.67	− 4 26.4	3.004	2.672	19.4	20.1	61 W	13*	55*
6 5	0 34.85	− 4 12.2	2.904	2.696	20.4	20.1	68 W	17*	60*
6 15	0 46.08	− 4 10.0	2.797	2.718	21.2	20.0	75 W	21*	65*
6 25	0 56.20	− 4 21.6	2.684	2.740	21.6	20.0	82 W	25*	68*
7 5	1 5.03	− 4 48.4	2.570	2.760	21.6	19.9	90 W	30*	69
7 15	1 12.36	− 5 32.3	2.454	2.780	21.2	19.8	98 W	34*	70
7 25	1 17.95	− 6 34.3	2.342	2.799	20.4	19.7	106 W	36*	71
8 4	1 21.56	− 7 55.0	2.236	2.817	19.1	19.6	115 W	37*	72
8 14	1 22.93	− 9 34.0	2.140	2.834	17.2	19.4	124 W	35	74
8 24	1 21.89	−11 28.6	2.060	2.850	15.0	19.3	133 W	34	75
8 29	1 20.46	−12 30.4	2.026	2.858	13.7	19.2	138 W	32	77
9 3	1 18.42	−13 34.2	1.998	2.865	12.4	19.1	143 W	31	78
9 8	1 15.80	−14 38.9	1.975	2.872	11.1	19.1	147 W	30	79
9 13	1 12.64	−15 43.3	1.959	2.879	9.8	19.0	151 W	29	80
9 18	1 9.03	−16 46.1	1.949	2.886	8.8	18.9	154 W	28	81
9 23	1 5.03	−17 46.2	1.947	2.893	8.1	18.9	156 W	27	82
9 28	1 0.74	−18 42.3	1.951	2.899	7.8	18.9	157 W	26	83
10 3	0 56.28	−19 33.4	1.962	2.905	8.0	18.9	156 W	25	84
10 8	0 51.75	−20 18.4	1.980	2.911	8.7	19.0	154 E	25	84
10 13	0 47.30	−20 56.7	2.005	2.916	9.6	19.1	151 E	24	85
10 18	0 43.02	−21 27.7	2.036	2.921	10.7	19.1	147 E	24	85
10 23	0 39.04	−21 51.3	2.073	2.927	11.9	19.2	143 E	23	86
11 2	0 32.30	−22 16.7	2.164	2.936	14.2	19.4	133 E	23	86
11 12	0 27.61	−22 14.9	2.274	2.944	16.2	19.6	124 E	23	86
11 22	0 25.23	−21 49.9	2.398	2.952	17.7	19.8	115 E	23	86
12 2	0 25.16	−21 6.2	2.531	2.958	18.7	19.9	106 E	24	85
12 12	0 27.29	−20 7.7	2.671	2.964	19.2	20.1	97 E	25	84*
12 22	0 31.40	−18 58.3	2.812	2.969	19.4	20.2	89 E	26	77*
1 1	0 37.23	−17 40.8	2.953	2.972	19.1	20.3	82 E	27	69*
1 11	0 44.56	−16 17.4	3.090	2.975	18.5	20.4	74 E	29	61*
1 21	0 53.15	−14 50.3	3.221	2.977	17.7	20.4	67 E	30*	54*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
				141851 2002 PM_6					
	h m	° ′			°	m	°	°	°
12 27	20 5.50	−17 15.8	2.111	1.284	18.6	20.9	25 E	14*	13*
1 1	20 19.53	−16 9.7	2.192	1.345	16.7	21.0	23 E	13*	10*
1 6	20 32.60	−15 4.2	2.271	1.402	14.8	21.1	21 E	13*	8*
1 11	20 44.86	−13 59.4	2.346	1.456	13.1	21.2	20 E	12*	6*
1 16	20 56.44	−12 55.2	2.417	1.508	11.4	21.3	18 E	10*	4*
1 21	21 7.41	−11 51.7	2.483	1.558	9.7	21.4	16 E	9*	2*
1 26	21 17.86	−10 48.8	2.546	1.605	8.2	21.4	13 E	7*	—
1 31	21 27.85	− 9 46.6	2.604	1.649	6.7	21.5	11 E	5*	—
				323182 2003 MQ_5					
12 27	20 5.85	−20 58.3	2.723	1.866	12.3	20.5	24 E	11*	14*
1 6	20 31.35	−20 39.3	2.735	1.838	10.3	20.4	20 E	8*	10*
1 16	20 57.31	−20 4.4	2.740	1.812	8.4	20.3	16 E	5*	7*
1 26	21 23.62	−19 14.2	2.738	1.787	6.5	20.1	12 E	2*	5*
2 5	21 50.16	−18 9.6	2.731	1.763	4.9	20.0	9 E	—	3*
2 15	22 16.87	−16 51.9	2.719	1.742	3.9	19.9	7 E	—	1*
2 25	22 43.70	−15 22.4	2.702	1.723	3.9	19.9	7 E	—	—
3 7	23 10.58	−13 42.9	2.682	1.706	4.8	19.9	8 E	—	—
3 17	23 37.51	−11 55.3	2.659	1.692	6.3	19.9	11 W	—	1*
3 27	0 4.47	−10 1.8	2.635	1.680	7.9	20.0	13 W	—	4*
4 6	0 31.44	− 8 4.6	2.610	1.671	9.5	20.0	16 W	—	7*
4 16	0 58.44	− 6 5.9	2.585	1.665	11.1	20.1	19 W	—	9*
4 26	1 25.43	− 4 8.4	2.559	1.662	12.7	20.1	21 W	—	12*
5 6	1 52.40	− 2 14.3	2.534	1.662	14.2	20.1	24 W	—	15*
5 16	2 19.32	− 0 25.9	2.510	1.664	15.6	20.2	26 W	—	19*
5 26	2 46.14	+ 1 14.5	2.487	1.670	16.9	20.2	29 W	—	22*
6 5	3 12.80	+ 2 45.2	2.464	1.678	18.2	20.2	31 W	—	25*
6 15	3 39.22	+ 4 4.7	2.440	1.690	19.4	20.3	34 W	—	27*
6 25	4 5.29	+ 5 11.8	2.416	1.704	20.6	20.3	36 W	1*	30*
7 5	4 30.92	+ 6 5.7	2.391	1.720	21.7	20.3	39 W	5*	33*
7 15	4 55.99	+ 6 46.3	2.363	1.739	22.8	20.4	42 W	9*	35*
7 25	5 20.38	+ 7 13.6	2.332	1.760	23.9	20.4	45 W	14*	37*
8 4	5 43.97	+ 7 28.4	2.298	1.782	24.9	20.4	48 W	20*	39*
8 14	6 6.65	+ 7 31.5	2.259	1.807	25.9	20.4	51 W	25*	40*
8 24	6 28.28	+ 7 24.2	2.214	1.833	26.9	20.5	55 W	30*	42*
9 3	6 48.77	+ 7 8.2	2.163	1.861	27.8	20.5	59 W	35*	44*
9 13	7 7.99	+ 6 45.3	2.106	1.890	28.5	20.5	64 W	39*	46*
9 23	7 25.78	+ 6 17.8	2.043	1.919	29.1	20.4	69 W	43*	48*
10 3	7 42.02	+ 5 47.9	1.973	1.950	29.5	20.4	74 W	47*	50*
10 13	7 56.51	+ 5 18.5	1.897	1.981	29.7	20.4	80 W	49*	52*
10 23	8 9.03	+ 4 52.8	1.816	2.013	29.6	20.3	86 W	50*	55*
11 2	8 19.35	+ 4 34.4	1.732	2.045	29.0	20.2	93 W	50	57*
11 12	8 27.13	+ 4 27.4	1.645	2.078	27.9	20.1	101 W	49	59*
11 22	8 32.06	+ 4 36.5	1.560	2.110	26.1	20.0	110 W	50	59
12 2	8 33.81	+ 5 6.5	1.480	2.143	23.6	19.8	119 W	50	59
12 12	8 32.13	+ 6 1.8	1.409	2.176	20.3	19.6	130 W	51	58
12 22	8 27.01	+ 7 25.2	1.353	2.208	16.2	19.4	141 W	52	57
1 1	8 18.81	+ 9 15.7	1.317	2.240	11.3	19.2	154 W	54	55
1 6	8 13.78	+10 19.5	1.308	2.256	8.7	19.1	160 W	55	54
1 11	8 8.35	+11 27.7	1.306	2.272	6.1	19.0	166 W	56	53
1 16	8 2.69	+12 38.6	1.311	2.288	3.8	18.9	171 W	58	51
1 21	7 56.99	+13 50.8	1.324	2.304	3.0	18.9	173 E	59	50
				103506 2000 BD_1					
12 27	20 6.36	− 7 18.8	3.160	2.354	11.8	20.9	29 E	22*	9*
1 6	20 24.81	− 7 9.9	3.197	2.335	9.9	20.8	24 E	18*	3*
1 16	20 43.51	− 6 50.3	3.222	2.314	8.0	20.7	19 E	13*	—
1 26	21 2.39	− 6 20.7	3.234	2.293	6.1	20.6	14 E	8*	—
2 5	21 21.40	− 5 42.3	3.233	2.270	4.5	20.5	10 E	3*	—
2 15	21 40.52	− 4 55.9	3.219	2.246	3.7	20.4	9 W	2*	—
2 25	21 59.73	− 4 2.9	3.192	2.222	4.3	20.4	10 W	3*	—
3 7	22 19.02	− 3 4.3	3.152	2.196	5.8	20.5	13 W	5*	4*
3 17	22 38.40	− 2 1.3	3.101	2.169	7.7	20.5	17 W	6*	10*
3 27	22 57.88	− 0 55.4	3.038	2.141	9.9	20.5	22 W	7*	15*
4 6	23 17.50	+ 0 12.2	2.964	2.112	12.1	20.5	26 W	7*	19*
4 16	23 37.31	+ 1 20.1	2.880	2.083	14.3	20.5	31 W	8*	24*
4 26	23 57.34	+ 2 26.6	2.787	2.052	16.5	20.5	35 W	10*	29*
5 6	0 17.64	+ 3 30.2	2.687	2.021	18.7	20.4	40 W	11*	33*
5 16	0 38.29	+ 4 29.3	2.579	1.989	20.9	20.4	45 W	12*	37*
5 26	0 59.32	+ 5 21.9	2.466	1.956	23.0	20.3	49 W	14*	41*
6 5	1 20.81	+ 6 5.9	2.348	1.923	25.0	20.2	53 W	17*	45*
6 15	1 42.79	+ 6 39.0	2.227	1.890	27.0	20.1	58 W	20*	48*
6 25	2 5.30	+ 6 58.8	2.104	1.856	28.9	20.0	62 W	23*	50*
7 5	2 28.38	+ 7 2.6	1.980	1.822	30.7	19.9	66 W	27*	52*
7 15	2 52.02	+ 6 47.3	1.857	1.788	32.3	19.8	70 W	31*	54*
7 25	3 16.17	+ 6 10.0	1.737	1.755	33.8	19.6	74 W	34*	56*
8 4	3 40.79	+ 5 7.7	1.621	1.722	35.2	19.5	78 W	38*	58*
8 14	4 5.74	+ 3 37.7	1.510	1.689	36.4	19.3	81 W	40*	59*
8 24	4 30.86	+ 1 37.8	1.407	1.657	37.4	19.1	85 W	41*	62*
9 3	4 55.95	− 0 52.7	1.310	1.627	38.3	19.0	88 W	41*	64*
9 13	5 20.72	− 3 53.6	1.223	1.598	39.0	18.8	91 W	40*	68*
9 23	5 44.89	− 7 22.1	1.145	1.570	39.6	18.6	94 W	37*	71*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
				103506 2000 BD_1 *(continuation)*					
	h m	° ′			°	m	°	°	°
9 28	5 56.65	− 9 15.3	1.110	1.557	39.9	18.6	95 W	36*	73*
10 3	6 8.13	−11 13.4	1.077	1.545	40.1	18.5	96 W	34	75*
10 8	6 19.27	−13 15.6	1.046	1.533	40.3	18.4	97 W	32	77*
10 13	6 30.03	−15 20.7	1.017	1.521	40.5	18.3	98 W	30	79
10 18	6 40.37	−17 27.6	0.991	1.511	40.7	18.3	99 W	28	81
10 23	6 50.23	−19 35.0	0.966	1.501	40.8	18.2	100 W	25	84
10 28	6 59.57	−21 41.9	0.942	1.492	40.9	18.1	101 W	23	86
11 2	7 8.32	−23 46.9	0.921	1.483	41.0	18.1	102 W	21	88
11 7	7 16.41	−25 48.8	0.900	1.475	41.0	18.0	102 W	19	90
11 12	7 23.79	−27 46.1	0.880	1.468	41.0	18.0	103 W	17	88
11 17	7 30.42	−29 37.5	0.861	1.462	40.9	17.9	104 W	15	86
11 22	7 36.22	−31 21.8	0.843	1.457	40.9	17.9	105 W	14	85
11 27	7 41.15	−32 57.7	0.825	1.453	40.7	17.8	106 W	12	83
12 2	7 45.14	−34 23.8	0.808	1.449	40.5	17.7	107 W	11	82
12 7	7 48.14	−35 38.3	0.790	1.447	40.2	17.7	109 W	9	80
12 12	7 50.14	−36 39.6	0.773	1.445	39.8	17.6	110 W	8	79
12 17	7 51.15	−37 25.8	0.756	1.445	39.3	17.6	112 W	8	79
12 22	7 51.20	−37 55.3	0.739	1.445	38.7	17.5	113 W	7	78
12 27	7 50.35	−38 6.1	0.722	1.446	38.0	17.4	115 W	7	78
1 1	7 48.70	−37 56.0	0.706	1.449	37.1	17.3	117 W	7	78
1 6	7 46.42	−37 22.9	0.690	1.452	36.2	17.3	119 W	8	79
1 11	7 43.75	−36 24.9	0.676	1.456	35.1	17.2	122 W	9	80
1 16	7 40.92	−35 1.1	0.663	1.461	34.0	17.1	124 E	10	81
1 21	7 38.19	−33 10.9	0.652	1.467	32.8	17.1	126 E	12	83
				206910 2004 NL_8					
12 27	20 6.51	−19 7.9	2.710	1.859	12.6	21.4	24 E	12*	13*
1 6	20 28.38	−18 10.2	2.657	1.760	10.7	21.1	19 E	9*	9*
1 16	20 51.74	−16 56.4	2.589	1.658	8.8	20.9	15 E	7*	5*
1 26	21 16.68	−15 24.8	2.509	1.553	6.9	20.6	11 E	4*	2*
2 5	21 43.34	−13 33.1	2.418	1.447	5.1	20.2	7 E	1*	—
2 15	22 11.96	−11 19.1	2.320	1.338	3.4	19.9	5 E	—	—
2 25	22 42.82	− 8 40.6	2.216	1.228	2.1	19.5	3 E	—	—
3 7	23 16.31	− 5 35.7	2.111	1.119	1.5	19.2	2 E	—	—
3 17	23 52.92	− 2 3.4	2.008	1.014	1.7	18.9	2 E	—	—
3 27	0 33.21	+ 1 54.6	1.911	0.915	2.9	18.6	3 E	—	—
4 1	0 54.91	+ 4 1.6	1.865	0.870	4.0	18.5	3 E	—	—
4 6	1 17.74	+ 6 12.4	1.823	0.830	5.5	18.4	5 E	—	—
4 11	1 41.76	+ 8 25.3	1.785	0.795	7.5	18.4	6 E	—	—
4 16	2 6.96	+10 37.7	1.750	0.767	10.0	18.4	8 E	—	1*
4 21	2 33.33	+12 47.0	1.720	0.747	12.8	18.4	9 E	1*	2*
4 26	3 0.79	+14 49.8	1.694	0.736	15.9	18.4	12 E	3*	4*
5 1	3 29.19	+16 42.8	1.674	0.735	19.0	18.5	14 E	4*	5*
5 6	3 58.35	+18 22.5	1.659	0.744	22.0	18.6	16 E	6*	7*
5 11	4 27.99	+19 46.1	1.651	0.761	24.6	18.7	18 E	8*	9*
5 16	4 57.82	+20 51.4	1.650	0.787	26.7	18.9	21 E	9*	11*
5 21	5 27.50	+21 37.1	1.657	0.821	28.3	19.0	23 E	10*	13*
5 26	5 56.70	+22 3.1	1.671	0.860	29.4	19.2	25 E	11*	15*
5 31	6 25.12	+22 9.9	1.692	0.903	29.9	19.3	26 E	12*	16*
6 5	6 52.51	+21 59.3	1.721	0.951	30.0	19.5	28 E	12*	18*
6 10	7 18.69	+21 33.2	1.756	1.001	29.7	19.6	29 E	12*	19*
6 15	7 43.54	+20 54.0	1.798	1.053	29.1	19.8	30 E	12*	21*
6 20	8 6.99	+20 4.2	1.845	1.106	28.2	19.9	31 E	12*	22*
6 25	8 29.05	+19 6.1	1.898	1.160	27.3	20.0	32 E	11*	23*
6 30	8 49.77	+18 1.8	1.955	1.215	26.1	20.2	32 E	11*	23*
7 5	9 9.21	+16 53.0	2.015	1.270	24.9	20.3	32 E	10*	24*
7 10	9 27.47	+15 41.1	2.079	1.324	23.7	20.4	32 E	10*	24*
7 15	9 44.63	+14 27.5	2.145	1.379	22.4	20.5	31 E	9*	24*
7 20	10 0.80	+13 13.0	2.213	1.433	21.1	20.6	30 E	8*	23*
7 25	10 16.07	+11 58.4	2.283	1.487	19.7	20.7	30 E	8*	23*
7 30	10 30.52	+10 44.3	2.353	1.540	18.4	20.8	29 E	7*	22*
8 4	10 44.24	+ 9 31.0	2.423	1.593	17.1	20.9	27 E	6*	21*
8 9	10 57.32	+ 8 18.9	2.494	1.645	15.7	21.0	26 E	5*	20*
8 14	11 9.80	+ 7 8.1	2.564	1.696	14.4	21.1	25 E	5*	18*
8 19	11 21.76	+ 5 59.0	2.634	1.747	13.1	21.2	23 E	4*	17*
8 24	11 33.24	+ 4 51.5	2.702	1.797	11.8	21.2	21 E	3*	15*
8 29	11 44.29	+ 3 45.7	2.768	1.846	10.5	21.3	19 E	3*	13*
9 3	11 54.96	+ 2 41.8	2.833	1.895	9.2	21.4	17 E	2*	11*
9 8	12 5.29	+ 1 39.7	2.896	1.943	7.9	21.4	15 E	1*	9*
9 13	12 15.30	+ 0 39.4	2.956	1.991	6.7	21.5	13 E	1*	7*
9 18	12 25.02	− 0 19.0	3.014	2.037	5.4	21.5	11 E	—	5*
				130415 2000 OH_{57}					
12 27	20 6.56	−20 20.7	3.490	2.623	8.8	20.4	24 E	11*	14*
1 6	20 23.84	−20 6.2	3.518	2.600	6.7	20.3	18 E	7*	9*
1 16	20 41.47	−19 43.8	3.530	2.575	4.5	20.2	12 E	3*	4*
1 26	20 59.37	−19 14.1	3.527	2.550	2.4	20.0	6 E	—	—
2 5	21 17.46	−18 37.8	3.508	2.524	1.1	19.9	3 E	—	—
2 15	21 35.72	−17 55.6	3.475	2.497	2.7	20.0	7 W	—	—
2 25	21 54.09	−17 8.5	3.428	2.469	4.9	20.1	12 W	—	6*
3 7	22 12.56	−16 17.3	3.367	2.441	7.1	20.1	18 W	—	11*

130415 2000 OH_{57} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 17	22 31.12	−15 23.2	3.294	2.411	9.4	20.1	23 W	—	17*
3 27	22 49.76	−14 27.2	3.209	2.382	11.6	20.1	29 W	—	22*
4 6	23 8.48	−13 30.5	3.114	2.351	13.7	20.1	34 W	—	27*
4 16	23 27.31	−12 34.3	3.010	2.320	15.9	20.1	39 W	—	33*
4 26	23 46.25	−11 40.1	2.898	2.288	17.9	20.0	44 W	1*	38*
5 6	0 5.33	−10 49.2	2.779	2.256	19.8	20.0	49 W	3*	43*
5 16	0 24.56	−10 3.1	2.655	2.223	21.7	19.9	54 W	4*	48*
5 26	0 43.95	− 9 23.6	2.528	2.191	23.4	19.8	59 W	6*	53*
6 5	1 3.51	− 8 52.2	2.398	2.157	25.0	19.7	64 W	9*	58*
6 15	1 23.22	− 8 30.9	2.268	2.124	26.5	19.6	69 W	12*	62*
6 25	1 43.06	− 8 21.7	2.137	2.090	27.8	19.5	74 W	15*	66*
7 5	2 2.97	− 8 26.5	2.009	2.057	28.9	19.3	78 W	19*	69*
7 15	2 22.87	− 8 47.3	1.883	2.023	29.9	19.2	83 W	23*	71*
7 25	2 42.62	− 9 26.0	1.761	1.990	30.7	19.0	87 W	26*	73*
8 4	3 2.06	−10 24.0	1.644	1.957	31.2	18.9	92 W	29*	74
8 14	3 20.94	−11 42.5	1.533	1.925	31.6	18.7	96 W	30*	76
8 24	3 38.96	−13 21.8	1.429	1.893	31.7	18.5	100 W	31*	77
9 3	3 55.79	−15 21.1	1.333	1.862	31.6	18.3	104 W	30*	79
9 8	4 3.61	−16 27.6	1.288	1.847	31.5	18.2	107 W	29	80
9 13	4 10.95	−17 38.2	1.245	1.832	31.4	18.1	109 W	27	82
9 18	4 17.74	−18 52.2	1.203	1.818	31.2	18.0	110 W	26	83
9 23	4 23.93	−20 8.9	1.164	1.804	31.0	17.9	112 W	25	84
9 28	4 29.44	−21 27.4	1.127	1.790	30.7	17.8	114 W	24	85
10 3	4 34.19	−22 46.8	1.093	1.776	30.4	17.8	116 W	22	87
10 8	4 38.10	−24 5.8	1.060	1.763	30.1	17.7	118 W	21	88
10 13	4 41.09	−25 22.8	1.029	1.751	29.8	17.6	119 W	20	89
10 18	4 43.11	−26 36.2	1.001	1.739	29.4	17.5	121 W	18	89
10 23	4 44.13	−27 44.1	0.975	1.727	29.1	17.4	123 W	17	88
10 28	4 44.10	−28 44.7	0.951	1.716	28.7	17.3	124 W	16	87
11 2	4 43.02	−29 35.8	0.929	1.705	28.4	17.3	125 W	15	86
11 7	4 40.91	−30 15.0	0.910	1.695	28.1	17.2	126 W	15	86
11 12	4 37.89	−30 40.1	0.892	1.686	27.9	17.1	127 W	14	85
11 17	4 34.07	−30 48.9	0.878	1.677	27.7	17.1	128 W	14	85
11 22	4 29.66	−30 39.9	0.866	1.669	27.6	17.0	128 W	14	85
11 27	4 24.86	−30 11.6	0.856	1.662	27.6	17.0	129 W	15	86
12 2	4 19.90	−29 23.1	0.849	1.655	27.7	17.0	129 E	16	87
12 7	4 15.07	−28 14.3	0.845	1.649	28.0	17.0	128 E	17	88
12 12	4 10.62	−26 45.7	0.845	1.643	28.3	17.0	128 E	18	89
12 17	4 6.78	−24 58.6	0.847	1.639	28.7	17.0	127 E	20	89
12 22	4 3.71	−22 55.1	0.853	1.635	29.3	17.0	126 E	22	87
12 27	4 1.53	−20 37.3	0.862	1.632	29.9	17.0	124 E	24	85
1 1	4 0.34	−18 8.0	0.874	1.630	30.6	17.1	123 E	27	82
1 6	4 0.19	−15 29.7	0.890	1.628	31.3	17.1	121 E	30	79
1 11	4 1.08	−12 45.4	0.909	1.627	32.1	17.2	119 E	32	77
1 16	4 3.01	− 9 57.8	0.932	1.627	32.8	17.3	116 E	35	74
1 21	4 5.92	− 7 9.3	0.959	1.628	33.6	17.4	114 E	38	71

498152 2007 TK_{111}

12 27	20 6.59	−22 27.9	2.431	1.581	14.5	21.3	24 E	9*	15*
1 6	20 36.89	−20 21.7	2.467	1.587	12.7	21.3	21 E	9*	11*
1 16	21 6.27	−17 58.5	2.503	1.597	11.0	21.3	18 E	8*	8*
1 26	21 34.66	−15 21.4	2.540	1.610	9.1	21.3	15 E	6*	5*
2 5	22 2.06	−12 33.9	2.577	1.626	7.3	21.2	12 E	4*	3*
2 15	22 28.54	− 9 39.2	2.613	1.645	5.4	21.2	9 E	2*	—
2 25	22 54.15	− 6 40.1	2.648	1.667	3.5	21.2	6 E	—	—
3 7	23 19.00	− 3 39.6	2.681	1.691	1.7	21.1	3 E	—	—
3 17	23 43.18	− 0 39.9	2.712	1.718	0.7	21.1	1 W	—	—
3 27	0 6.79	+ 2 16.8	2.740	1.746	2.3	21.3	4 W	—	—
4 6	0 29.90	+ 5 8.7	2.764	1.776	4.2	21.4	7 W	—	1*

279776 1999 TA_{122}

12 27	20 7.97	−19 25.4	2.373	1.534	15.5	21.3	25 E	12*	14*
1 6	20 38.60	−17 37.4	2.398	1.530	13.9	21.2	22 E	11*	11*
1 16	21 8.74	−15 30.9	2.423	1.529	12.2	21.2	19 E	10*	8*
1 26	21 38.29	−13 8.8	2.449	1.532	10.6	21.1	17 E	9*	5*
2 5	22 7.19	−10 34.2	2.476	1.538	8.9	21.1	14 E	7*	3*
2 15	22 35.44	− 7 50.3	2.503	1.547	7.2	21.1	11 E	5*	1*
2 25	23 3.07	− 5 0.4	2.531	1.560	5.5	21.0	9 E	2*	—
3 7	23 30.13	− 2 7.9	2.559	1.575	3.8	21.0	6 E	—	—
3 17	23 56.69	+ 0 44.4	2.586	1.594	2.1	20.9	3 E	—	—
3 27	0 22.82	+ 3 33.8	2.613	1.615	0.7	20.8	1 W	—	—
4 6	0 48.59	+ 6 17.6	2.638	1.639	1.6	21.0	3 W	—	—
4 16	1 14.07	+ 8 54.0	2.660	1.664	3.4	21.2	6 W	—	—
4 26	1 39.30	+11 20.8	2.680	1.692	5.1	21.3	9 W	—	2*
5 6	2 4.31	+13 36.7	2.696	1.721	6.9	21.4	12 W	—	5*

168730 2000 OX_{51}

12 27	20 8.46	−15 37.6	2.404	1.579	15.8	20.8	26 E	15*	13*
1 6	20 38.21	−14 2.3	2.436	1.580	14.1	20.7	23 E	14*	9*
1 16	21 7.55	−12 10.9	2.469	1.584	12.4	20.7	20 E	13*	6*
1 26	21 36.34	−10 6.0	2.503	1.592	10.7	20.7	18 E	11*	4*

168730 2000 OX_{51} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 5	22 4.53	− 7 50.5	2.537	1.604	9.0	20.7	15 E	8*	1*
2 15	22 32.11	− 5 27.3	2.572	1.618	7.3	20.6	12 E	6*	—
2 25	22 59.07	− 2 59.4	2.606	1.636	5.5	20.6	9 E	3*	—
3 7	23 25.45	− 0 29.5	2.639	1.657	3.8	20.6	6 E	—	—
3 17	23 51.32	+ 1 59.6	2.671	1.680	2.2	20.5	4 E	—	—
3 27	0 16.69	+ 4 25.7	2.702	1.705	1.5	20.5	2 W	—	—
4 6	0 41.63	+ 6 46.5	2.729	1.733	2.6	20.7	4 W	—	—
4 16	1 6.20	+ 9 0.3	2.753	1.762	4.2	20.8	7 W	—	1*
4 26	1 30.40	+11 5.5	2.772	1.794	6.0	21.0	11 W	—	4*
5 6	1 54.27	+13 0.8	2.786	1.826	7.8	21.1	14 W	1*	8*
5 16	2 17.82	+14 45.2	2.795	1.860	9.7	21.2	18 W	2*	11*
5 26	2 41.00	+16 17.7	2.797	1.894	11.5	21.3	22 W	4*	15*
6 5	3 3.81	+17 38.0	2.792	1.929	13.2	21.4	26 W	7*	18*

98039 2000 RC_{22}

12 27	20 9.55	− 6 16.6	3.620	2.820	10.2	20.8	31 E	23*	9*
1 6	20 25.04	− 5 58.8	3.665	2.804	8.5	20.7	25 E	19*	3*
1 16	20 40.75	− 5 31.9	3.695	2.787	6.8	20.7	20 E	14*	—
1 26	20 56.62	− 4 56.4	3.710	2.770	5.3	20.6	15 E	8*	—
2 5	21 12.56	− 4 13.2	3.709	2.752	4.2	20.5	12 W	3*	—
2 15	21 28.52	− 3 23.1	3.694	2.732	4.1	20.5	11 W	5*	—
2 25	21 44.46	− 2 27.0	3.664	2.712	4.9	20.5	14 W	7*	2*
3 7	22 0.33	− 1 25.8	3.619	2.691	6.5	20.5	18 W	9*	8*
3 17	22 16.11	− 0 20.4	3.560	2.669	8.2	20.6	23 W	11*	14*
3 27	22 31.76	+ 0 48.1	3.488	2.647	10.1	20.6	28 W	12*	20*
4 6	22 47.27	+ 1 58.6	3.402	2.623	12.1	20.6	33 W	14*	25*
4 16	23 2.62	+ 3 10.2	3.305	2.599	14.0	20.6	39 W	16*	31*
4 26	23 17.77	+ 4 21.5	3.196	2.574	15.8	20.5	44 W	18*	36*
5 6	23 32.71	+ 5 31.6	3.077	2.548	17.6	20.5	50 W	20*	41*
5 16	23 47.40	+ 6 39.0	2.949	2.521	19.3	20.4	56 W	23*	45*
5 26	0 1.80	+ 7 42.4	2.814	2.493	20.9	20.4	61 W	26*	49*
6 5	0 15.85	+ 8 40.3	2.671	2.465	22.3	20.3	67 W	30*	52*
6 15	0 29.47	+ 9 30.9	2.523	2.436	23.6	20.2	73 W	34*	53*
6 25	0 42.55	+10 12.2	2.372	2.406	24.6	20.0	80 W	39*	54*
7 5	0 54.97	+10 42.2	2.217	2.376	25.3	19.9	86 W	44*	53
7 15	1 6.53	+10 57.9	2.063	2.346	25.6	19.7	93 W	49*	53
7 25	1 17.00	+10 56.4	1.909	2.314	25.6	19.5	100 W	53*	53
8 4	1 26.12	+10 34.2	1.759	2.283	25.1	19.3	108 W	55*	53
8 14	1 33.52	+ 9 46.8	1.615	2.250	23.9	19.0	116 W	55	54
8 24	1 38.83	+ 8 30.1	1.480	2.218	22.0	18.7	125 W	54	55
9 3	1 41.69	+ 6 40.1	1.358	2.185	19.3	18.4	134 W	52	57
9 13	1 41.75	+ 4 14.2	1.251	2.152	15.7	18.1	145 W	49	60
9 23	1 38.92	+ 1 14.6	1.166	2.119	11.5	17.8	155 W	46	63
9 28	1 36.48	− 0 25.6	1.132	2.102	9.3	17.6	160 W	45	64
10 3	1 33.44	− 2 10.6	1.105	2.086	7.4	17.5	164 W	43	66
10 8	1 29.90	− 3 58.1	1.084	2.069	6.4	17.3	167 W	41	68
10 13	1 26.02	− 5 45.5	1.070	2.053	6.7	17.3	166 W	39	70
10 18	1 21.96	− 7 29.8	1.063	2.036	8.3	17.4	163 E	38	71
10 23	1 17.89	− 9 8.6	1.063	2.020	10.6	17.4	158 E	36	73
10 28	1 14.00	−10 39.4	1.068	2.004	13.1	17.5	153 E	34	75
11 2	1 10.46	−12 0.3	1.080	1.988	15.7	17.6	147 E	33	76
11 7	1 7.44	−13 9.9	1.097	1.972	18.2	17.7	142 E	32	77
11 12	1 5.06	−14 7.5	1.118	1.956	20.6	17.8	136 E	31	78
11 22	1 2.62	−15 26.4	1.172	1.924	24.6	18.0	126 E	30	79
12 2	1 3.53	−16 0.3	1.237	1.894	27.8	18.2	116 E	29	80
12 12	1 7.84	−15 55.1	1.309	1.864	30.2	18.3	108 E	29	80
12 17	1 11.20	−15 40.0	1.346	1.850	31.1	18.4	104 E	29	80
12 22	1 15.30	−15 17.9	1.383	1.836	31.8	18.5	100 E	30	79*
12 27	1 20.11	−14 49.4	1.421	1.822	32.4	18.5	97 E	30	78*
1 1	1 25.57	−14 15.2	1.458	1.809	32.9	18.6	94 E	31	75*
1 6	1 31.66	−13 35.9	1.495	1.796	33.2	18.6	90 E	31	73*
1 11	1 38.32	−12 52.3	1.531	1.783	33.4	18.7	87 E	32	70*
1 16	1 45.52	−12 4.8	1.567	1.771	33.6	18.7	85 E	33	67*
1 21	1 53.23	−11 14.0	1.602	1.760	33.6	18.8	82 E	34	64*

21001 Trogrlic

12 27	20 10.60	− 7 29.9	3.804	2.995	9.5	21.1	30 E	22*	10*
1 6	20 25.04	− 7 11.6	3.852	2.982	7.7	21.1	24 E	18*	3*
1 16	20 39.71	− 6 45.0	3.885	2.968	6.0	21.0	18 E	12*	—
1 26	20 54.50	− 6 10.6	3.901	2.953	4.5	20.9	14 E	7*	—
2 5	21 9.35	− 5 29.2	3.900	2.937	3.5	20.8	11 W	2*	—
2 15	21 24.19	− 4 41.5	3.884	2.920	3.7	20.8	11 W	5*	—
2 25	21 38.97	− 3 48.4	3.851	2.902	4.8	20.9	14 W	7*	3*
3 7	21 53.64	− 2 50.6	3.802	2.883	6.5	20.9	19 W	9*	10*
3 17	22 8.15	− 1 49.2	3.738	2.863	8.3	20.9	25 W	11*	16*
3 27	22 22.47	− 0 44.9	3.659	2.842	10.2	20.9	30 W	13*	22*
4 6	22 36.56	+ 0 21.0	3.566	2.820	12.1	20.9	36 W	15*	28*
4 16	22 50.38	+ 1 27.8	3.460	2.797	13.9	20.9	42 W	17*	34*
4 26	23 3.87	+ 2 34.2	3.342	2.773	15.7	20.9	48 W	19*	40*
5 6	23 17.01	+ 3 39.1	3.214	2.749	17.3	20.8	54 W	21*	45*

21001 Trogrlic *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 16	23 29.73	+ 4 41.4	3.076	2.723	18.8	20.8	60 W	24*	50*
5 26	23 41.94	+ 5 39.5	2.930	2.696	20.2	20.7	67 W	28*	53*
6 5	23 53.56	+ 6 32.1	2.778	2.669	21.3	20.6	73 W	32*	56*
6 15	0 4.47	+ 7 17.5	2.621	2.640	22.3	20.5	80 W	36*	57*
6 25	0 14.51	+ 7 53.4	2.460	2.611	22.9	20.3	87 W	41*	56
7 5	0 23.50	+ 8 17.7	2.299	2.581	23.1	20.2	94 W	46*	56
7 15	0 31.20	+ 8 27.7	2.138	2.550	23.0	20.0	102 W	51*	56
7 25	0 37.34	+ 8 19.9	1.982	2.518	22.3	19.8	110 W	53*	56
8 4	0 41.63	+ 7 51.1	1.832	2.486	20.9	19.5	119 W	53	56
8 14	0 43.72	+ 6 57.2	1.692	2.452	18.9	19.3	128 W	52	57
8 24	0 43.35	+ 5 34.8	1.566	2.418	16.0	19.0	139 W	51	58
9 3	0 40.39	+ 3 42.4	1.458	2.384	12.3	18.6	150 W	49	60
9 13	0 34.92	+ 1 21.2	1.372	2.348	7.8	18.3	161 W	46	63
9 18	0 31.38	+ 0 1.7	1.339	2.330	5.4	18.1	167 W	45	64
9 23	0 27.44	− 1 21.9	1.313	2.312	3.1	17.9	173 W	44	65
9 28	0 23.20	− 2 48.0	1.294	2.294	2.1	17.8	175 W	42	67
10 3	0 18.82	− 4 14.7	1.282	2.276	4.0	17.9	171 E	41	68
10 8	0 14.45	− 5 40.0	1.277	2.257	6.6	18.0	165 E	39	70
10 13	0 10.27	− 7 1.6	1.280	2.239	9.3	18.1	159 E	38	71
10 18	0 6.42	− 8 17.9	1.288	2.220	12.0	18.2	152 E	37	72
10 23	0 3.05	− 9 27.4	1.303	2.201	14.5	18.3	146 E	36	73
10 28	0 0.27	−10 29.0	1.323	2.183	16.9	18.4	140 E	35	74
11 2	23 58.17	−11 22.2	1.348	2.164	19.1	18.5	135 E	34	75
11 12	23 56.27	−12 41.7	1.410	2.126	22.8	18.7	124 E	32	77
11 22	23 57.58	−13 26.6	1.483	2.088	25.6	18.8	114 E	32	77
12 2	0 2.01	−13 40.3	1.562	2.050	27.7	19.0	105 E	31	78
12 12	0 9.33	−13 26.9	1.645	2.012	29.1	19.1	97 E	32	76*
12 22	0 19.21	−12 50.7	1.726	1.975	29.9	19.2	89 E	32	71*
1 1	0 31.32	−11 55.5	1.805	1.937	30.2	19.2	82 E	33	64*
1 11	0 45.40	−10 44.4	1.879	1.901	30.2	19.3	76 E	34	58*
1 21	1 1.19	− 9 20.5	1.948	1.865	29.8	19.3	70 E	35*	53*

316857 2000 NH_{10}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 10.98	−18 40.3	2.365	1.537	16.0	20.8	25 E	13*	14*
1 6	20 40.77	−16 56.8	2.358	1.499	14.6	20.7	23 E	12*	11*
1 16	21 10.97	−14 52.3	2.350	1.464	13.3	20.6	20 E	11*	8*
1 26	21 41.45	−12 28.2	2.342	1.434	12.0	20.5	18 E	10*	6*
2 5	22 12.10	− 9 46.6	2.335	1.409	10.7	20.4	15 E	8*	4*
2 15	22 42.88	− 6 50.5	2.330	1.388	9.5	20.3	13 E	7*	2*
2 25	23 13.75	− 3 43.5	2.329	1.374	8.4	20.2	12 E	5*	1*
3 7	23 44.70	− 0 30.0	2.332	1.365	7.3	20.1	10 E	4*	—
3 17	0 15.76	+ 2 45.5	2.339	1.363	6.2	20.1	8 E	2*	—
3 27	0 46.94	+ 5 58.2	2.352	1.367	5.0	20.1	7 E	1*	—
4 6	1 18.25	+ 9 3.4	2.370	1.377	3.9	20.0	5 E	—	—
4 16	1 49.69	+11 56.8	2.393	1.394	2.8	20.0	4 E	—	—
4 26	2 21.21	+14 34.5	2.420	1.415	1.6	20.0	2 E	—	—
5 6	2 52.74	+16 53.3	2.451	1.442	0.3	19.9	0 E	—	—
5 16	3 24.17	+18 51.0	2.484	1.474	1.1	20.1	2 W	—	—
5 26	3 55.34	+20 26.1	2.519	1.509	2.5	20.3	4 W	—	—
6 5	4 26.10	+21 38.1	2.553	1.548	3.9	20.4	6 W	—	—
6 15	4 56.25	+22 27.2	2.587	1.590	5.4	20.6	9 W	—	2*
6 25	5 25.63	+22 54.4	2.618	1.634	7.0	20.8	11 W	1*	4*
7 5	5 54.06	+23 1.0	2.646	1.680	8.6	20.9	14 W	3*	6*
7 15	6 21.43	+22 49.2	2.669	1.727	10.2	21.1	18 W	6*	9*
7 25	6 47.62	+22 20.9	2.686	1.775	11.8	21.2	21 W	10*	11*
8 4	7 12.57	+21 38.4	2.695	1.824	13.5	21.3	25 W	14*	13*
8 14	7 36.24	+20 44.2	2.697	1.873	15.1	21.5	29 W	18*	15*

131634 2001 XN_{68}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 11.23	−20 6.1	3.585	2.727	8.8	20.7	25 E	12*	15*
1 6	20 26.88	−18 39.1	3.659	2.748	6.7	20.7	19 E	9*	9*
1 16	20 42.30	−17 8.3	3.719	2.768	4.5	20.7	13 E	5*	3*
1 26	20 57.43	−15 33.7	3.762	2.786	2.3	20.6	7 E	—	—
2 5	21 12.23	−13 55.7	3.789	2.804	0.8	20.5	2 W	—	—
2 15	21 26.66	−12 14.4	3.800	2.821	2.3	20.6	7 W	—	—
2 25	21 40.68	−10 30.2	3.794	2.837	4.4	20.7	13 W	2*	6*
3 7	21 54.25	− 8 43.5	3.772	2.852	6.5	20.9	19 W	5*	12*
3 17	22 7.34	− 6 54.6	3.734	2.867	8.5	20.9	25 W	7*	19*
3 27	22 19.89	− 5 4.0	3.681	2.880	10.5	21.0	32 W	10*	25*
4 6	22 31.87	− 3 12.0	3.614	2.892	12.3	21.0	38 W	13*	31*
4 16	22 43.21	− 1 19.1	3.533	2.904	14.0	21.1	45 W	16*	37*
4 26	22 53.84	+ 0 34.4	3.440	2.914	15.6	21.1	51 W	19*	43*
5 6	23 3.67	+ 2 28.0	3.335	2.924	17.0	21.0	58 W	23*	48*
5 16	23 12.61	+ 4 21.4	3.221	2.933	18.1	21.0	65 W	27*	52*
5 26	23 20.51	+ 6 13.9	3.099	2.940	19.1	21.0	72 W	32*	55*
6 5	23 27.23	+ 8 5.1	2.972	2.947	19.7	20.9	79 W	37*	56*
6 15	23 32.57	+ 9 54.1	2.840	2.953	20.1	20.8	86 W	43*	54
6 25	23 36.30	+11 39.8	2.708	2.958	20.0	20.7	94 W	50*	52
7 5	23 38.22	+13 20.9	2.577	2.962	19.6	20.6	102 W	56*	51
7 15	23 38.04	+14 55.4	2.451	2.965	18.7	20.5	111 W	60*	49
7 25	23 35.59	+16 20.4	2.334	2.967	17.4	20.3	119 W	61	48

131634 2001 XN_{68} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 4	23 30.73	+17 32.7	2.229	2.968	15.5	20.2	128 W	63	46
8 14	23 23.51	+18 28.2	2.141	2.968	13.3	20.0	137 W	63	46
8 24	23 14.26	+19 3.1	2.075	2.967	11.0	19.8	146 W	64	45
9 3	23 3.58	+19 14.9	2.032	2.965	8.9	19.7	153 W	64	45
9 8	22 57.96	+19 11.8	2.021	2.964	8.3	19.7	155 E	64	45
9 13	22 52.35	+19 3.0	2.016	2.963	8.0	19.6	156 E	64	45
9 18	22 46.85	+18 48.9	2.018	2.961	8.2	19.7	155 E	64	45
9 23	22 41.61	+18 30.2	2.028	2.959	8.8	19.7	153 E	64	45
9 28	22 36.73	+18 7.8	2.044	2.957	9.6	19.7	150 E	63	46
10 3	22 32.31	+17 42.3	2.066	2.954	10.7	19.8	147 E	63	46
10 8	22 28.43	+17 14.8	2.094	2.952	11.9	19.9	143 E	62	47
10 13	22 25.16	+16 46.3	2.128	2.949	13.0	20.0	138 E	62	47
10 18	22 22.54	+16 17.7	2.168	2.946	14.2	20.0	134 E	61	48
10 23	22 20.58	+15 49.7	2.212	2.942	15.2	20.1	129 E	61	48
11 2	22 18.68	+14 58.4	2.311	2.935	17.1	20.3	120 E	60	49
11 12	22 19.37	+14 16.7	2.423	2.926	18.4	20.4	111 E	59	50
11 22	22 22.43	+13 47.5	2.543	2.917	19.3	20.5	102 E	59	49*
12 2	22 27.59	+13 31.9	2.667	2.907	19.8	20.6	94 E	59	46*
12 12	22 34.58	+13 30.4	2.792	2.895	19.8	20.7	86 E	59	41*
12 22	22 43.12	+13 42.7	2.914	2.883	19.5	20.8	78 E	59*	35*
1 1	22 52.98	+14 7.8	3.031	2.870	18.9	20.9	71 E	57*	29*
1 11	23 3.97	+14 45.1	3.142	2.856	18.1	20.9	64 E	54*	23*
1 21	23 15.92	+15 33.4	3.243	2.841	17.0	20.9	58 E	50*	17*

512244 2015 YE_{18}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 11.36	− 6 12.8	0.974	0.524	75.5	19.0	31 E	24*	9*
1 6	21 25.21	− 3 22.4	0.829	0.614	84.5	19.3	38 E	29*	15*
1 16	22 45.85	− 1 44.1	0.748	0.720	84.1	19.4	47 E	35*	24*
1 26	0 6.92	− 0 56.9	0.736	0.828	77.8	19.4	55 E	39*	33*
1 31	0 44.66	− 0 44.5	0.753	0.880	73.7	19.5	59 E	40*	37*
2 5	1 19.42	− 0 35.9	0.782	0.931	69.7	19.6	62 E	41*	41*
2 10	1 50.95	− 0 28.9	0.821	0.980	65.8	19.6	65 E	41*	44*
2 15	2 19.32	− 0 22.2	0.867	1.027	62.2	19.8	67 E	42*	46*
2 25	3 7.82	− 0 8.0	0.976	1.115	56.0	20.0	69 E	41*	49*
3 7	3 47.81	+ 0 7.7	1.097	1.196	51.1	20.3	70 E	41*	51*
3 17	4 21.96	+ 0 23.5	1.222	1.268	47.1	20.5	69 E	39*	52*
3 27	4 52.17	+ 0 36.9	1.348	1.332	43.7	20.8	67 E	37*	52*
4 6	5 19.69	+ 0 45.8	1.472	1.389	40.8	21.0	65 E	33*	52*
4 16	5 45.42	+ 0 48.7	1.591	1.438	38.3	21.1	63 E	30*	51*
4 26	6 9.90	+ 0 44.1	1.705	1.481	36.0	21.3	60 E	25*	50*
5 6	6 33.50	+ 0 31.0	1.811	1.517	33.8	21.4	57 E	20*	48*

90403 2003 YE_{45}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 12.10	−12 25.4	1.934	1.161	23.4	20.6	28 E	18*	12*
1 1	20 29.63	−10 48.0	1.963	1.184	22.7	20.6	28 E	19*	10*
1 6	20 46.61	− 9 8.7	1.993	1.206	21.9	20.7	27 E	19*	9*
1 11	21 3.10	− 7 28.0	2.024	1.228	21.1	20.7	27 E	20*	7*
1 16	21 19.12	− 5 46.4	2.054	1.250	20.3	20.8	26 E	19*	6*
1 21	21 34.73	− 4 4.5	2.085	1.271	19.5	20.8	26 E	19*	5*
1 26	21 49.97	− 2 22.7	2.116	1.291	18.7	20.8	25 E	19*	3*
1 31	22 4.87	− 0 41.2	2.147	1.312	17.9	20.9	24 E	18*	2*
2 5	22 19.48	+ 0 59.5	2.177	1.331	17.1	20.9	23 E	17*	1*
2 10	22 33.83	+ 2 39.4	2.207	1.350	16.3	20.9	23 E	17*	—
2 15	22 47.96	+ 4 18.1	2.236	1.369	15.5	21.0	22 E	16*	—
2 20	23 1.89	+ 5 55.4	2.265	1.386	14.7	21.0	21 E	15*	—
2 25	23 15.66	+ 7 31.1	2.293	1.403	13.9	21.0	20 E	13*	—
3 2	23 29.29	+ 9 5.0	2.320	1.419	13.1	21.1	19 E	12*	—
3 7	23 42.81	+10 37.0	2.346	1.435	12.3	21.1	18 E	11*	—
3 12	23 56.24	+12 7.0	2.370	1.450	11.6	21.1	17 E	10*	—
3 17	0 9.62	+13 34.7	2.394	1.464	10.9	21.1	16 E	9*	—
3 22	0 22.96	+14 59.9	2.416	1.477	10.2	21.1	15 E	7*	—
3 27	0 36.27	+16 22.7	2.436	1.490	9.5	21.1	14 E	6*	—
4 1	0 49.58	+17 42.7	2.455	1.501	8.9	21.1	13 E	5*	—
4 6	1 2.91	+18 59.8	2.472	1.512	8.4	21.1	13 E	4*	—
4 11	1 16.27	+20 14.0	2.488	1.522	7.9	21.2	12 W	3*	—
4 16	1 29.68	+21 25.1	2.502	1.532	7.5	21.2	12 W	3*	—
4 21	1 43.15	+22 32.8	2.514	1.540	7.2	21.2	11 W	4*	—
4 26	1 56.69	+23 37.1	2.524	1.548	7.1	21.2	11 W	4*	—
5 1	2 10.30	+24 37.7	2.532	1.555	7.1	21.2	11 W	5*	—
5 6	2 24.01	+25 34.6	2.538	1.561	7.2	21.2	11 W	5*	—
5 11	2 37.81	+26 27.6	2.542	1.566	7.4	21.2	12 W	6*	—
5 16	2 51.72	+27 16.5	2.544	1.570	7.8	21.3	12 W	6*	—
5 21	3 5.71	+28 1.2	2.544	1.574	8.3	21.3	13 W	7*	—
5 26	3 19.81	+28 41.5	2.541	1.577	8.8	21.3	14 W	7*	1*
5 31	3 34.00	+29 17.2	2.537	1.579	9.5	21.3	15 W	8*	2*
6 5	3 48.29	+29 48.2	2.530	1.580	10.2	21.4	16 W	9*	3*
6 10	4 2.67	+30 14.4	2.521	1.580	10.9	21.4	17 W	9*	4*
6 15	4 17.12	+30 35.7	2.510	1.579	11.7	21.4	18 W	10*	5*
6 20	4 31.64	+30 51.8	2.497	1.578	12.6	21.4	20 W	11*	6*

90403 2003 YE_{45} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 25	4 46.21	+31 2.7	2.481	1.576	13.4	21.4	21 W	12*	7*
6 30	5 0.83	+31 8.3	2.464	1.573	14.3	21.4	22 W	14*	8*
7 5	5 15.47	+31 8.4	2.444	1.569	15.2	21.5	24 W	15*	9*
7 10	5 30.14	+31 3.0	2.422	1.564	16.1	21.5	25 W	16*	10*
7 15	5 44.80	+30 52.0	2.398	1.558	17.1	21.5	27 W	18*	11*
7 20	5 59.44	+30 35.2	2.372	1.552	18.0	21.5	28 W	19*	11*
7 25	6 14.05	+30 12.7	2.343	1.545	19.0	21.5	30 W	21*	12*
7 30	6 28.62	+29 44.4	2.313	1.537	20.0	21.5	31 W	22*	13*
8 4	6 43.13	+29 10.3	2.281	1.528	21.0	21.4	33 W	24*	14*
8 9	6 57.59	+28 30.2	2.248	1.518	22.0	21.4	34 W	25*	14*
8 14	7 11.97	+27 44.1	2.212	1.508	23.0	21.4	36 W	27*	15*
8 19	7 26.28	+26 52.0	2.175	1.497	24.0	21.4	37 W	28*	16*
8 24	7 40.50	+25 53.8	2.137	1.485	25.1	21.4	38 W	30*	17*
8 29	7 54.65	+24 49.6	2.097	1.472	26.1	21.3	40 W	31*	18*
9 3	8 8.73	+23 39.1	2.056	1.458	27.2	21.3	41 W	33*	18*
9 8	8 22.74	+22 22.4	2.013	1.444	28.2	21.3	43 W	34*	19*
9 13	8 36.70	+20 59.4	1.970	1.429	29.3	21.2	44 W	35*	20*
9 18	8 50.61	+19 30.0	1.926	1.413	30.4	21.2	45 W	36*	21*
9 23	9 4.49	+17 54.1	1.881	1.396	31.5	21.1	47 W	37*	22*
9 28	9 18.38	+16 11.6	1.835	1.379	32.6	21.1	48 W	38*	24*
10 3	9 32.30	+14 22.4	1.790	1.361	33.7	21.0	49 W	39*	25*
10 8	9 46.27	+12 26.5	1.744	1.343	34.8	21.0	50 W	39*	26*
10 13	10 0.33	+10 23.7	1.699	1.323	35.9	20.9	51 W	40*	27*
10 18	10 14.52	+ 8 14.1	1.654	1.304	37.0	20.9	52 W	40*	29*
10 23	10 28.90	+ 5 57.6	1.609	1.283	38.2	20.8	53 W	39*	30*
10 28	10 43.51	+ 3 34.2	1.566	1.262	39.3	20.7	54 W	39*	32*
11 2	10 58.43	+ 1 4.2	1.524	1.241	40.5	20.7	54 W	38*	33*
11 7	11 13.71	− 1 32.3	1.484	1.219	41.6	20.6	55 W	37*	35*
11 12	11 29.44	− 4 14.6	1.445	1.197	42.7	20.5	55 W	36*	36*
11 17	11 45.71	− 7 2.2	1.409	1.175	43.8	20.5	55 W	34*	38*
11 22	12 2.62	− 9 54.2	1.375	1.152	44.9	20.4	55 W	32*	39*
11 27	12 20.27	−12 49.3	1.344	1.130	46.0	20.4	55 W	30*	41*
12 2	12 38.80	−15 45.9	1.316	1.107	47.0	20.3	55 W	27*	42*
12 7	12 58.31	−18 42.0	1.292	1.085	48.0	20.2	55 W	25*	43*
12 12	13 18.92	−21 35.2	1.271	1.063	48.9	20.2	54 W	22*	44*
12 17	13 40.76	−24 22.4	1.254	1.041	49.7	20.1	54 W	19*	45*
12 22	14 3.91	−27 0.6	1.241	1.020	50.4	20.1	53 W	17*	45*
12 27	14 28.44	−29 26.2	1.232	1.000	51.0	20.0	52 W	14*	45*
1 1	14 54.34	−31 35.5	1.227	0.981	51.4	20.0	51 W	12*	45*
1 6	15 21.52	−33 24.9	1.225	0.963	51.7	20.0	50 W	10*	44*
1 11	15 49.78	−34 51.0	1.228	0.947	51.8	19.9	49 W	8*	43*
1 16	16 18.86	−35 51.4	1.233	0.932	51.8	19.9	48 W	6*	42*
1 21	16 48.40	−36 24.4	1.242	0.919	51.6	19.9	47 W	5*	41*

239874 2000 JN_{83}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 12.16	−21 46.8	2.671	1.829	13.2	21.4	25 E	11*	16*
1 6	20 38.56	−20 21.6	2.738	1.856	11.1	21.4	21 E	9*	12*
1 16	21 4.05	−18 44.4	2.801	1.885	8.9	21.4	17 E	7*	8*
1 26	21 28.61	−16 57.3	2.859	1.914	6.8	21.4	13 E	4*	5*
2 5	21 52.27	−15 2.7	2.911	1.944	4.7	21.4	9 E	1*	2*
2 15	22 15.07	−13 2.5	2.957	1.975	2.6	21.3	5 E	—	—
2 25	22 37.05	−10 58.7	2.995	2.006	1.1	21.3	2 E	—	—
3 7	22 58.27	− 8 53.1	3.025	2.038	2.2	21.4	5 W	—	—

418265 2008 EA_{32}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 12.25	−31 46.9	1.182	0.515	55.2	17.3	25 E	2*	19*
12 29	20 27.90	−31 45.6	1.162	0.529	57.3	17.4	27 E	3*	21*
12 31	20 43.35	−31 35.2	1.143	0.542	59.3	17.5	28 E	4*	22*
1 2	20 58.56	−31 16.1	1.124	0.557	61.0	17.6	30 E	4*	23*
1 4	21 13.50	−30 48.3	1.106	0.571	62.5	17.6	31 E	5*	25*
1 6	21 28.12	−30 12.3	1.089	0.584	63.9	17.7	32 E	6*	26*
1 11	22 3.13	−28 8.5	1.050	0.619	66.5	17.8	35 E	9*	28*
1 16	22 35.68	−25 22.4	1.016	0.651	68.3	17.9	38 E	12*	30*
1 21	23 5.67	−22 1.8	0.988	0.681	69.5	18.0	40 E	16*	32*
1 26	23 33.17	−18 14.8	0.966	0.708	70.1	18.0	43 E	19*	33*
1 31	23 58.35	−14 9.2	0.950	0.731	70.4	18.1	44 E	23*	33*
2 5	0 21.48	− 9 52.2	0.938	0.752	70.4	18.1	46 E	26*	33*
2 10	0 42.81	− 5 29.9	0.930	0.769	70.3	18.1	47 E	30*	32*
2 15	1 2.61	− 1 7.4	0.926	0.783	70.0	18.2	48 E	33*	31*
2 20	1 21.11	+ 3 11.2	0.925	0.793	69.8	18.2	49 E	35*	29*
2 25	1 38.50	+ 7 23.0	0.925	0.800	69.6	18.2	49 E	37*	27*
3 2	1 54.96	+11 25.8	0.926	0.803	69.5	18.2	49 E	39*	25*
3 7	2 10.64	+15 18.4	0.927	0.803	69.6	18.2	49 E	40*	23*
3 12	2 25.65	+19 0.0	0.927	0.800	69.8	18.2	49 E	41*	21*
3 17	2 40.08	+22 30.4	0.925	0.793	70.3	18.2	49 E	41*	19*
3 22	2 53.95	+25 49.3	0.920	0.782	71.1	18.2	48 E	41*	16*
3 27	3 7.24	+28 56.7	0.913	0.768	72.3	18.2	47 E	41*	14*
4 1	3 19.89	+31 52.4	0.901	0.750	73.9	18.1	46 E	40*	12*
4 6	3 31.74	+34 35.8	0.884	0.730	76.0	18.1	45 E	39*	10*
4 11	3 42.56	+37 6.0	0.862	0.706	78.8	18.1	44 E	38*	8*
4 16	3 51.90	+39 20.9	0.834	0.678	82.4	18.0	42 E	36*	5*

418265 2008 EA_{32} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 18	3 55.10	+40 9.8	0.822	0.667	84.2	18.0	41 E	35*	4*
4 20	3 57.91	+40 55.3	0.808	0.655	86.1	18.0	41 E	34*	3*
4 22	4 0.26	+41 36.9	0.794	0.642	88.2	18.0	40 E	34*	2*
4 24	4 2.11	+42 14.0	0.778	0.629	90.6	18.1	39 E	32*	1*
4 26	4 3.36	+42 45.8	0.762	0.616	93.2	18.1	38 E	31*	—
4 28	4 3.94	+43 11.5	0.746	0.603	96.0	18.1	37 E	30*	—
4 30	4 3.78	+43 29.9	0.728	0.589	99.2	18.2	35 E	29*	—
5 2	4 2.80	+43 39.5	0.711	0.575	102.8	18.2	34 E	27*	—
5 4	4 0.94	+43 38.7	0.693	0.561	106.6	18.3	32 E	25*	—
5 6	3 58.17	+43 25.4	0.675	0.547	110.9	18.5	30 E	23*	—
5 8	3 54.48	+42 57.4	0.658	0.533	115.5	18.6	28 E	21*	—
5 10	3 49.94	+42 12.3	0.641	0.519	120.6	18.9	26 E	19*	—
5 12	3 44.69	+41 7.7	0.627	0.506	125.9	19.2	24 E	16*	—
5 14	3 38.93	+39 41.8	0.614	0.493	131.5	19.7	21 E	13*	—
5 16	3 32.96	+37 53.6	0.604	0.481	137.1	20.2	19 E	9*	—
5 18	3 27.11	+35 43.6	0.598	0.469	142.4	20.8	16 W	8*	—
5 20	3 21.75	+33 14.2	0.597	0.459	146.6	21.4	14 W	8*	—

189170 2002 VH_{66}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 12.45	−17 47.2	2.330	1.510	16.6	21.2	26 E	14*	14*
1 6	20 43.00	−15 53.4	2.347	1.497	15.1	21.2	23 E	13*	11*
1 16	21 13.33	−13 41.0	2.365	1.488	13.7	21.1	21 E	12*	8*
1 26	21 43.31	−11 12.7	2.384	1.483	12.2	21.1	19 E	11*	6*
2 5	22 12.88	− 8 31.5	2.404	1.482	10.7	21.0	16 E	9*	3*
2 15	22 42.02	− 5 40.7	2.426	1.485	9.1	21.0	14 E	7*	1*
2 25	23 10.74	− 2 44.1	2.449	1.493	7.6	21.0	12 E	5*	—
3 7	23 39.07	+ 0 14.9	2.475	1.504	6.1	20.9	9 E	3*	—
3 17	0 7.09	+ 3 12.9	2.501	1.518	4.5	20.9	7 E	1*	—
3 27	0 34.83	+ 6 6.6	2.529	1.537	3.0	20.9	5 E	—	—
4 6	1 2.34	+ 8 53.1	2.557	1.558	1.7	20.8	3 E	—	—
4 16	1 29.70	+11 30.0	2.585	1.582	1.4	20.8	2 W	—	—
4 26	1 56.90	+13 54.8	2.611	1.609	2.5	21.0	4 W	—	—
5 6	2 23.95	+16 5.9	2.636	1.639	4.1	21.1	7 W	—	—
5 16	2 50.86	+18 2.0	2.659	1.670	5.8	21.3	10 W	—	3*
5 26	3 17.55	+19 41.8	2.677	1.703	7.4	21.4	13 W	1*	6*

74217 1998 RB_{73}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 12.59	−23 29.5	2.446	1.609	15.0	18.5	25 E	9*	16*
1 6	20 42.86	−21 22.7	2.488	1.620	13.2	18.5	22 E	9*	13*
1 16	21 12.07	−18 59.2	2.532	1.634	11.4	18.5	19 E	8*	10*
1 26	21 40.17	−16 22.7	2.575	1.652	9.5	18.5	16 E	6*	7*
2 5	22 7.17	−13 36.5	2.619	1.673	7.6	18.5	13 E	5*	4*
2 15	22 33.15	−10 44.0	2.662	1.697	5.7	18.4	10 E	2*	2*
2 25	22 58.18	− 7 48.0	2.704	1.724	3.8	18.4	7 E	—	—
3 7	23 22.36	− 4 51.2	2.743	1.753	1.8	18.3	3 E	—	—
3 17	23 45.78	− 1 55.8	2.780	1.785	0.3	18.2	1 W	—	—
3 27	0 8.55	+ 0 56.2	2.812	1.818	2.1	18.5	4 W	—	—
4 6	0 30.73	+ 3 43.2	2.840	1.853	4.1	18.7	8 W	—	2*
4 16	0 52.43	+ 6 24.0	2.862	1.889	6.0	18.8	11 W	—	5*
4 26	1 13.67	+ 8 57.3	2.878	1.926	7.9	19.0	15 W	1*	9*
5 6	1 34.51	+11 22.4	2.886	1.964	9.8	19.1	19 W	3*	13*
5 16	1 54.97	+13 38.7	2.888	2.003	11.7	19.2	24 W	5*	17*
5 26	2 15.05	+15 45.7	2.881	2.042	13.4	19.3	28 W	8*	20*
6 5	2 34.75	+17 43.1	2.865	2.081	15.2	19.4	32 W	12*	24*
6 15	2 54.01	+19 30.9	2.841	2.121	16.8	19.5	37 W	16*	27*
6 25	3 12.77	+21 9.1	2.807	2.161	18.3	19.6	42 W	21*	29*
7 5	3 30.96	+22 38.1	2.764	2.201	19.8	19.6	47 W	27*	31*
7 15	3 48.46	+23 58.2	2.711	2.240	21.1	19.7	52 W	33*	33*
7 25	4 5.14	+25 10.0	2.650	2.280	22.2	19.7	58 W	40*	34*
8 4	4 20.83	+26 14.4	2.580	2.319	23.1	19.7	64 W	47*	34*
8 14	4 35.32	+27 12.4	2.502	2.357	23.8	19.7	70 W	54*	35*
8 24	4 48.38	+28 5.0	2.418	2.395	24.2	19.6	77 W	61*	35*
9 3	4 59.74	+28 53.6	2.328	2.433	24.3	19.6	84 W	68*	35*
9 13	5 9.07	+29 39.2	2.234	2.470	24.0	19.5	91 W	73*	34*
9 23	5 16.00	+30 22.8	2.139	2.506	23.3	19.4	99 W	75	34
10 3	5 20.18	+31 5.0	2.046	2.542	22.0	19.3	108 W	76	33
10 13	5 21.19	+31 45.5	1.958	2.577	20.1	19.2	118 W	77	32
10 23	5 18.78	+32 22.8	1.881	2.611	17.5	19.1	128 W	77	32
11 2	5 12.88	+32 54.1	1.818	2.644	14.4	18.9	139 W	78	31
11 7	5 8.69	+33 6.3	1.793	2.661	12.6	18.8	144 W	78	31
11 12	5 3.77	+33 15.4	1.775	2.677	10.7	18.8	150 W	78	31
11 17	4 58.23	+33 21.0	1.762	2.693	8.8	18.7	155 W	78	31
11 22	4 52.23	+33 22.7	1.756	2.708	6.9	18.6	161 W	78	31
11 27	4 45.93	+33 20.3	1.757	2.724	5.2	18.5	165 W	78	31
12 2	4 39.51	+33 13.7	1.766	2.739	4.1	18.5	169 W	78	31
12 7	4 33.16	+33 3.3	1.782	2.754	4.1	18.5	169 E	78	31
12 12	4 27.07	+32 49.5	1.805	2.769	5.1	18.6	165 E	78	31
12 17	4 21.41	+32 32.9	1.836	2.784	6.7	18.7	161 E	78	31
12 22	4 16.31	+32 14.3	1.873	2.798	8.4	18.9	155 E	77	32
12 27	4 11.87	+31 54.5	1.918	2.813	10.1	19.0	150 E	77	32
1 1	4 8.17	+31 34.3	1.968	2.827	11.7	19.1	144 E	77	32

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
74217 1998 RB_{73} *(continuation)*									
	h m	° ′			°	m	°	°	°
1 6	4 5.25	+31 14.2	2.024	2.840	13.1	19.3	139 E	76	33
1 11	4 3.14	+30 55.0	2.086	2.854	14.5	19.4	134 E	76	33
1 16	4 1.82	+30 37.2	2.152	2.867	15.6	19.5	128 E	76	33
1 21	4 1.28	+30 21.0	2.221	2.880	16.6	19.6	123 E	75	34
222073 1999 HY_1									
12 27	20 12.67	+ 0 6.1	1.877	1.217	27.9	21.0	35 E	29*	7*
1 6	20 50.02	+ 1 2.0	1.905	1.226	26.9	21.1	34 E	28*	5*
1 16	21 26.86	+ 2 4.9	1.941	1.237	25.6	21.1	33 E	27*	4*
1 26	22 2.96	+ 3 12.4	1.984	1.250	24.0	21.1	31 E	25*	4*
2 5	22 38.15	+ 4 22.1	2.032	1.264	22.3	21.1	29 E	23*	3*
2 15	23 12.38	+ 5 31.7	2.083	1.281	20.3	21.1	27 E	21*	3*
2 25	23 45.64	+ 6 39.1	2.136	1.298	18.2	21.2	24 E	18*	3*
3 7	0 17.98	+ 7 42.3	2.188	1.316	16.0	21.2	21 E	15*	3*
3 17	0 49.50	+ 8 39.8	2.239	1.335	13.8	21.2	19 E	12*	4*
3 27	1 20.30	+ 9 30.1	2.286	1.354	11.6	21.2	16 E	9*	4*
4 6	1 50.48	+10 11.7	2.328	1.373	9.6	21.2	13 E	6*	4*
4 16	2 20.16	+10 43.7	2.365	1.392	7.8	21.1	11 E	2*	3*
4 26	2 49.42	+11 4.7	2.396	1.411	6.4	21.1	9 E	—	3*
5 6	3 18.32	+11 13.8	2.420	1.430	5.8	21.2	8 E	—	2*
5 16	3 46.95	+11 10.1	2.438	1.447	6.1	21.2	9 E	—	1*
5 26	4 15.31	+10 52.6	2.450	1.464	7.1	21.3	10 E	—	—
6 5	4 43.43	+10 21.0	2.455	1.480	8.4	21.4	12 W	—	1*
6 15	5 11.32	+ 9 34.6	2.455	1.495	9.9	21.5	15 W	—	5*
394938 2008 XY_1									
12 27	20 12.83	− 4 40.2	2.299	1.558	19.7	20.4	32 E	25*	9*
1 6	20 41.27	− 2 49.2	2.311	1.541	18.6	20.3	30 E	24*	5*
1 16	21 10.15	− 0 45.3	2.324	1.526	17.6	20.3	28 E	22*	2*
1 26	21 39.36	+ 1 29.2	2.338	1.515	16.5	20.2	26 E	20*	—
2 5	22 8.82	+ 3 51.6	2.355	1.508	15.4	20.2	24 E	18*	—
2 15	22 38.50	+ 6 18.8	2.374	1.505	14.3	20.2	22 E	15*	—
2 25	23 8.33	+ 8 47.3	2.397	1.506	13.1	20.2	20 E	13*	—
3 7	23 38.27	+11 13.4	2.423	1.511	11.8	20.1	18 E	11*	—
3 17	0 8.29	+13 33.8	2.451	1.520	10.4	20.1	16 E	8*	—
3 27	0 38.35	+15 45.2	2.482	1.532	8.9	20.1	14 E	6*	—
4 6	1 8.39	+17 44.7	2.515	1.548	7.5	20.1	12 E	4*	—
4 16	1 38.35	+19 30.1	2.548	1.567	6.1	20.1	9 E	1*	—
4 26	2 8.16	+20 59.3	2.581	1.589	4.9	20.1	8 W	1*	—
5 6	2 37.70	+22 11.1	2.612	1.614	4.1	20.1	7 W	1*	—
5 16	3 6.89	+23 4.6	2.641	1.642	4.2	20.2	7 W	1*	—
5 26	3 35.58	+23 39.4	2.666	1.671	5.2	20.3	9 W	1*	—
6 5	4 3.66	+23 55.6	2.687	1.703	6.6	20.4	11 W	2*	3*
6 15	4 31.02	+23 53.5	2.702	1.736	8.3	20.5	14 W	3*	6*
6 25	4 57.53	+23 33.8	2.711	1.770	10.0	20.7	18 W	5*	9*
7 5	5 23.09	+22 57.4	2.713	1.805	11.9	20.8	21 W	8*	12*
7 15	5 47.64	+22 5.5	2.708	1.841	13.7	20.9	25 W	11*	15*
7 25	6 11.07	+20 59.1	2.694	1.878	15.4	21.0	29 W	15*	19*
8 4	6 33.36	+19 39.4	2.672	1.915	17.2	21.1	34 W	19*	22*
8 14	6 54.45	+18 7.7	2.642	1.952	18.8	21.1	38 W	24*	25*
8 24	7 14.29	+16 25.1	2.602	1.990	20.4	21.2	43 W	28*	28*
9 3	7 32.84	+14 32.7	2.554	2.027	21.8	21.2	48 W	33*	31*
9 13	7 50.06	+12 31.6	2.497	2.064	23.1	21.3	53 W	37*	34*
9 23	8 5.85	+10 22.9	2.433	2.100	24.2	21.3	59 W	41*	38*
10 3	8 20.15	+ 8 7.6	2.361	2.136	25.1	21.3	65 W	45*	42*
10 13	8 32.83	+ 5 46.6	2.282	2.172	25.7	21.3	71 W	47*	46*
10 23	8 43.72	+ 3 21.4	2.198	2.207	26.1	21.2	77 W	47*	51*
11 2	8 52.65	+ 0 53.0	2.110	2.241	26.1	21.2	84 W	46	57*
11 12	8 59.35	− 1 36.6	2.020	2.275	25.8	21.1	92 W	43	62*
11 22	9 3.55	− 4 4.9	1.931	2.308	25.0	21.0	99 W	41	67*
12 2	9 4.99	− 6 28.8	1.846	2.340	23.7	20.9	107 W	39	70
12 12	9 3.38	− 8 43.5	1.769	2.371	21.9	20.8	116 W	36	73
12 22	8 58.65	−10 43.0	1.702	2.401	19.7	20.6	125 W	34	75
1 1	8 50.92	−12 20.4	1.651	2.431	17.2	20.5	133 W	33	76
1 11	8 40.70	−13 28.2	1.620	2.459	14.8	20.4	140 W	32	77
1 21	8 28.95	−14 1.2	1.611	2.486	12.9	20.4	146 W	31	78
53426 1999 SL_5									
12 27	20 13.00	− 6 23.4	1.724	1.021	30.0	19.7	31 E	24*	10*
1 1	20 35.61	− 4 54.7	1.747	1.053	29.8	19.8	32 E	25*	9*
1 6	20 57.56	− 3 25.0	1.774	1.087	29.3	19.9	33 E	26*	9*
1 11	21 18.82	− 1 55.2	1.807	1.122	28.7	20.0	33 E	26*	9*
1 16	21 39.36	− 0 26.3	1.845	1.159	27.9	20.1	33 E	27*	8*
1 21	21 59.18	+ 1 1.0	1.887	1.197	27.0	20.2	34 E	27*	8*
1 26	22 18.29	+ 2 26.0	1.932	1.236	26.0	20.3	33 E	27*	7*
2 5	22 54.44	+ 5 7.7	2.033	1.314	23.8	20.5	33 E	26*	7*
2 15	23 28.06	+ 7 36.6	2.144	1.394	21.4	20.6	31 E	25*	6*
2 25	23 59.41	+ 9 52.1	2.260	1.473	18.9	20.8	29 E	23*	5*
3 7	0 28.78	+11 54.1	2.378	1.551	16.4	20.9	26 E	20*	4*
3 17	0 56.46	+13 43.1	2.496	1.627	13.8	21.0	23 E	17*	3*
3 27	1 22.68	+15 19.5	2.609	1.702	11.3	21.1	20 E	13*	2*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
53426 1999 SL_5 *(continuation)*									
	h m	° ′			°	m	°	°	°
4 6	1 47.64	+16 44.0	2.717	1.775	8.8	21.2	16 E	10*	—
4 16	2 11.51	+17 57.1	2.817	1.845	6.3	21.3	12 E	6*	—
4 26	2 34.42	+18 59.2	2.907	1.913	3.9	21.3	7 E	1*	—
5 6	2 56.45	+19 50.7	2.985	1.979	1.8	21.3	4 E	—	—
5 16	3 17.69	+20 31.8	3.051	2.043	1.7	21.4	3 W	—	—
468305 2015 YA_8									
12 27	20 13.31	−14 33.0	2.925	2.101	12.4	21.5	27 E	17*	13*
1 6	20 35.47	−13 51.3	3.032	2.157	10.1	21.5	23 E	14*	8*
1 16	20 56.75	−13 0.4	3.131	2.214	7.7	21.6	18 E	10*	4*
1 26	21 17.17	−12 2.1	3.221	2.270	5.4	21.6	13 E	6*	—
2 5	21 36.76	−10 58.0	3.299	2.325	3.1	21.5	7 E	1*	—
2 15	21 55.56	− 9 49.7	3.365	2.379	1.2	21.5	3 E	—	—
141988 2002 PB_{139}									
12 27	20 13.36	−16 41.9	2.914	2.082	12.2	21.0	27 E	15*	14*
1 6	20 35.09	−15 33.1	2.925	2.044	10.3	20.9	22 E	13*	9*
1 16	20 57.25	−14 12.0	2.926	2.007	8.3	20.8	17 E	9*	5*
1 26	21 19.74	−12 38.9	2.919	1.970	6.3	20.7	13 E	6*	1*
2 5	21 42.52	−10 54.5	2.904	1.935	4.3	20.5	9 E	2*	—
2 15	22 5.57	− 8 59.4	2.882	1.899	2.5	20.4	5 E	—	—
2 25	22 28.88	− 6 54.8	2.854	1.865	1.3	20.2	2 W	—	—
3 7	22 52.44	− 4 41.9	2.821	1.833	2.4	20.2	4 W	—	—
3 17	23 16.30	− 2 22.1	2.783	1.801	4.2	20.3	8 W	—	1*
3 27	23 40.49	+ 0 2.7	2.742	1.772	6.1	20.3	11 W	—	5*
4 6	0 5.06	+ 2 30.8	2.698	1.745	8.0	20.3	14 W	1*	8*
4 16	0 30.07	+ 4 59.9	2.653	1.719	9.9	20.3	17 W	2*	11*
4 26	0 55.57	+ 7 27.8	2.606	1.697	11.7	20.3	20 W	3*	14*
5 6	1 21.62	+ 9 51.9	2.559	1.677	13.5	20.3	23 W	4*	16*
5 16	1 48.26	+12 9.8	2.512	1.659	15.3	20.3	26 W	5*	19*
5 26	2 15.48	+14 18.4	2.466	1.646	17.0	20.3	28 W	7*	21*
6 5	2 43.27	+16 15.3	2.421	1.635	18.6	20.3	31 W	9*	23*
6 15	3 11.58	+17 58.0	2.376	1.628	20.1	20.3	33 W	12*	25*
6 25	3 40.28	+19 23.9	2.331	1.624	21.6	20.3	36 W	15*	26*
7 5	4 9.23	+20 31.4	2.288	1.624	23.0	20.3	39 W	19*	27*
7 15	4 38.24	+21 19.2	2.244	1.628	24.4	20.3	41 W	23*	28*
7 25	5 7.05	+21 46.4	2.200	1.635	25.7	20.4	44 W	27*	29*
8 4	5 35.44	+21 53.3	2.156	1.646	26.9	20.4	47 W	31*	30*
8 14	6 3.15	+21 40.6	2.110	1.660	28.1	20.4	50 W	35*	30*
8 24	6 29.91	+21 9.6	2.062	1.677	29.1	20.4	54 W	39*	31*
9 3	6 55.53	+20 22.5	2.011	1.697	30.1	20.4	57 W	43*	33*
9 13	7 19.80	+19 21.4	1.957	1.720	30.9	20.4	61 W	47*	34*
9 23	7 42.53	+18 9.2	1.900	1.745	31.6	20.3	66 W	51*	36*
10 3	8 3.60	+16 48.7	1.840	1.772	32.1	20.3	70 W	54*	38*
10 13	8 22.82	+15 23.0	1.775	1.802	32.4	20.3	75 W	57*	40*
10 23	8 40.02	+13 55.1	1.707	1.833	32.4	20.2	81 W	58*	43*
11 2	8 55.02	+12 28.3	1.636	1.866	32.1	20.2	87 W	57*	46*
11 12	9 7.56	+11 5.8	1.562	1.900	31.3	20.1	94 W	56	50*
11 22	9 17.37	+ 9 51.2	1.488	1.935	30.1	20.0	101 W	55	53*
12 2	9 24.14	+ 8 48.0	1.415	1.971	28.2	19.9	109 W	54	55*
12 12	9 27.51	+ 8 0.2	1.347	2.007	25.7	19.7	118 W	53	56
12 22	9 27.27	+ 7 31.1	1.287	2.045	22.3	19.6	128 W	53	56
1 1	9 23.37	+ 7 23.4	1.239	2.082	18.1	19.4	139 W	52	57
1 11	9 16.12	+ 7 38.1	1.208	2.120	13.3	19.2	150 W	53	56
1 21	9 6.42	+ 8 13.0	1.200	2.158	8.0	19.0	162 W	53	56
232368 2003 AZ_2									
12 27	20 13.52	−22 41.3	1.909	1.103	22.4	21.0	25 E	10*	16*
1 6	20 55.02	−22 18.3	1.922	1.109	21.8	21.0	25 E	10*	16*
1 16	21 35.99	−21 16.1	1.939	1.120	21.3	21.0	24 E	9*	16*
1 26	22 15.97	−19 38.7	1.959	1.135	20.8	21.1	24 E	9*	16*
2 5	22 54.67	−17 31.6	1.983	1.155	20.4	21.1	24 E	9*	16*
2 15	23 31.95	−15 1.1	2.012	1.179	19.8	21.2	24 E	8*	16*
2 25	0 7.81	−12 14.0	2.045	1.206	19.2	21.2	24 E	8*	16*
3 7	0 42.29	− 9 16.9	2.083	1.235	18.5	21.3	23 E	7*	16*
3 17	1 15.55	− 6 15.9	2.124	1.266	17.7	21.4	23 E	6*	16*
3 27	1 47.74	− 3 16.5	2.169	1.298	16.7	21.4	22 E	5*	16*
26760 2001 KP_{41}									
12 27	20 14.10	−19 14.0	2.095	1.286	19.6	18.4	26 E	13*	15*
1 1	20 33.54	−18 37.7	2.115	1.299	19.1	18.5	26 E	13*	15*
1 6	20 52.65	−17 54.0	2.137	1.314	18.5	18.5	25 E	13*	14*
1 11	21 11.39	−17 3.7	2.162	1.331	17.8	18.5	24 E	13*	13*
1 16	21 29.71	−16 7.6	2.189	1.349	17.1	18.6	24 E	13*	13*
1 21	21 47.57	−15 6.5	2.219	1.370	16.4	18.6	23 E	12*	12*
1 26	22 4.96	−14 1.3	2.251	1.393	15.7	18.6	22 E	12*	12*
1 31	22 21.88	−12 52.8	2.285	1.417	14.9	18.7	22 E	11*	11*
2 5	22 38.31	−11 41.7	2.320	1.442	14.1	18.7	21 E	11*	10*
2 10	22 54.28	−10 28.7	2.358	1.469	13.2	18.8	20 E	10*	10*
2 15	23 9.79	− 9 14.7	2.396	1.497	12.4	18.8	19 E	9*	9*

26760 2001 KP_{41} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 25	23 39.50	− 6 45.5	2.477	1.556	10.6	18.9	17 E	7*	8*
3 7	0 7.60	− 4 18.2	2.560	1.618	8.8	19.0	14 E	5*	6*
3 17	0 34.26	− 1 56.0	2.643	1.682	7.0	19.1	12 E	2*	5*
3 27	0 59.64	+ 0 18.8	2.725	1.748	5.4	19.1	9 E	—	3*
4 6	1 23.88	+ 2 24.5	2.804	1.816	4.0	19.2	7 E	—	1*
4 16	1 47.10	+ 4 20.1	2.878	1.884	3.3	19.3	6 E	—	—
4 26	2 9.40	+ 6 4.6	2.946	1.952	3.8	19.5	7 W	—	—
5 6	2 30.85	+ 7 37.9	3.006	2.021	5.1	19.6	10 W	—	2*
5 16	2 51.49	+ 8 59.6	3.057	2.089	6.7	19.8	14 W	—	7*
5 26	3 11.34	+10 9.8	3.098	2.157	8.3	20.0	18 W	—	12*
6 5	3 30.40	+11 8.7	3.128	2.224	10.1	20.2	22 W	—	16*
6 15	3 48.68	+11 56.5	3.146	2.291	11.7	20.3	27 W	1*	21*
6 25	4 6.11	+12 33.5	3.152	2.357	13.3	20.4	32 W	6*	26*
7 5	4 22.65	+13 0.2	3.145	2.422	14.9	20.5	38 W	11*	30*
7 15	4 38.24	+13 17.2	3.126	2.486	16.3	20.6	43 W	17*	34*
7 25	4 52.79	+13 25.0	3.094	2.549	17.5	20.7	49 W	24*	37*
8 4	5 6.18	+13 24.4	3.050	2.611	18.6	20.8	55 W	30*	40*
8 14	5 18.31	+13 15.9	2.995	2.671	19.5	20.8	62 W	37*	43*
8 24	5 29.00	+13 0.6	2.929	2.731	20.2	20.8	69 W	43*	46*
9 3	5 38.12	+12 39.2	2.854	2.790	20.5	20.8	76 W	49*	48*
9 13	5 45.45	+12 12.7	2.773	2.847	20.6	20.8	84 W	54*	51*
9 23	5 50.80	+11 42.4	2.687	2.904	20.2	20.8	92 W	56*	52*
10 3	5 53.96	+11 9.5	2.601	2.959	19.4	20.7	101 W	56	53
10 13	5 54.74	+10 35.5	2.517	3.013	18.1	20.6	110 W	56	53
10 23	5 53.03	+10 2.1	2.441	3.066	16.3	20.5	120 W	55	54
11 2	5 48.82	+ 9 31.2	2.377	3.118	13.9	20.4	131 W	55	54
11 12	5 42.27	+ 9 4.8	2.332	3.168	11.2	20.3	142 W	54	55
11 22	5 33.81	+ 8 44.9	2.310	3.218	8.2	20.2	152 W	54	55
12 2	5 24.09	+ 8 33.2	2.316	3.266	5.4	20.1	162 W	54	55
12 12	5 13.94	+ 8 30.9	2.352	3.314	4.3	20.1	165 E	54	55
12 22	5 4.25	+ 8 38.4	2.419	3.360	5.7	20.3	160 E	54	55
1 1	4 55.78	+ 8 55.1	2.515	3.405	8.2	20.5	150 E	54	55
1 11	4 49.11	+ 9 20.0	2.639	3.449	10.6	20.8	140 E	54	55
1 21	4 44.56	+ 9 51.4	2.786	3.492	12.6	21.0	129 E	55	54

3200 Phaethon

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 14.35	− 8 26.8	1.227	0.626	52.7	15.7	30 E	22*	11*
1 1	20 47.90	− 5 3.2	1.287	0.734	49.4	16.0	35 E	26*	12*
1 6	21 16.95	− 2 3.2	1.361	0.833	45.9	16.3	37 E	29*	13*
1 11	21 42.37	+ 0 34.9	1.443	0.925	42.4	16.6	39 E	32*	13*
1 16	22 4.86	+ 2 53.7	1.531	1.011	39.2	16.8	41 E	33*	12*
1 21	22 24.96	+ 4 56.2	1.623	1.092	36.3	17.0	41 E	34*	12*
1 26	22 43.12	+ 6 45.2	1.717	1.167	33.5	17.2	41 E	34*	11*
1 31	22 59.69	+ 8 22.9	1.812	1.239	31.0	17.4	40 E	34*	10*
2 5	23 14.95	+ 9 51.4	1.907	1.307	28.7	17.5	40 E	33*	9*
2 10	23 29.13	+11 12.4	2.001	1.371	26.5	17.7	38 E	32*	8*
2 15	23 42.42	+12 27.2	2.094	1.432	24.5	17.8	37 E	31*	7*
2 20	23 54.94	+13 36.7	2.184	1.490	22.5	17.9	35 E	29*	5*
2 25	0 6.83	+14 41.8	2.272	1.546	20.7	18.0	33 E	27*	4*
3 2	0 18.17	+15 43.2	2.357	1.599	18.9	18.1	32 E	26*	3*
3 7	0 29.05	+16 41.3	2.438	1.649	17.2	18.2	30 E	23*	2*
3 17	0 49.67	+18 29.5	2.591	1.743	14.1	18.4	25 E	19*	—
3 27	1 9.08	+20 9.0	2.726	1.829	11.2	18.5	21 E	14*	—
4 6	1 27.55	+21 41.2	2.844	1.908	8.7	18.6	17 E	10*	—
4 16	1 45.28	+23 7.4	2.942	1.979	6.7	18.6	13 E	5*	—
4 26	2 2.40	+24 28.1	3.021	2.044	5.6	18.7	11 W	4*	—
5 6	2 19.00	+25 43.8	3.079	2.103	5.7	18.8	12 W	6*	—
5 16	2 35.15	+26 54.9	3.116	2.155	7.0	19.0	15 W	8*	2*
5 26	2 50.85	+28 1.7	3.132	2.203	8.8	19.1	19 W	11*	6*
6 5	3 6.12	+29 4.5	3.127	2.244	10.9	19.2	25 W	15*	11*
6 15	3 20.94	+30 3.6	3.101	2.281	12.9	19.3	30 W	19*	15*
6 25	3 35.24	+30 59.2	3.055	2.313	15.0	19.4	36 W	24*	18*
7 5	3 48.97	+31 51.7	2.991	2.339	17.0	19.4	42 W	29*	21*
7 15	4 2.03	+32 41.6	2.907	2.361	18.8	19.4	49 W	36*	24*
7 25	4 14.25	+33 29.5	2.807	2.379	20.5	19.4	55 W	43*	25*
8 4	4 25.47	+34 15.9	2.691	2.391	22.0	19.4	62 W	51*	27*
8 14	4 35.44	+35 1.8	2.561	2.399	23.3	19.3	69 W	58*	27*
8 24	4 43.82	+35 47.7	2.420	2.402	24.2	19.3	77 W	67*	28*
9 3	4 50.21	+36 34.7	2.270	2.401	24.7	19.1	85 W	75*	27*
9 8	4 52.49	+36 58.7	2.192	2.399	24.8	19.1	89 W	78*	27*
9 13	4 54.05	+37 23.1	2.113	2.396	24.8	19.0	94 W	81*	27
9 18	4 54.78	+37 47.8	2.034	2.391	24.6	18.9	98 W	83	26
9 23	4 54.61	+38 12.7	1.955	2.385	24.2	18.8	103 W	83	26
9 28	4 53.40	+38 37.5	1.876	2.378	23.7	18.7	108 W	84	25
10 3	4 51.02	+39 1.8	1.798	2.370	22.9	18.5	113 W	84	25
10 8	4 47.35	+39 24.9	1.723	2.361	22.0	18.4	118 W	84	25
10 13	4 42.25	+39 45.7	1.650	2.351	20.8	18.3	123 W	85	24
10 18	4 35.63	+40 3.1	1.580	2.339	19.3	18.1	129 W	85	24
10 23	4 27.40	+40 15.2	1.515	2.326	17.7	18.0	135 W	85	24
10 28	4 17.54	+40 20.2	1.455	2.312	15.8	17.8	141 W	85	24
11 2	4 6.11	+40 15.6	1.402	2.297	13.7	17.6	147 W	85	24

3200 Phaethon *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 7	3 53.29	+39 59.1	1.356	2.280	11.7	17.5	152 W	85	24
11 12	3 39.38	+39 28.8	1.318	2.263	9.8	17.3	157 W	84	25
11 17	3 24.81	+38 43.4	1.288	2.244	8.6	17.2	160 E	84	25
11 22	3 10.07	+37 43.0	1.268	2.223	8.6	17.1	160 E	83	26
11 27	2 55.66	+36 28.7	1.257	2.202	9.9	17.2	158 E	81	28
12 2	2 42.06	+35 3.0	1.256	2.179	12.0	17.2	153 E	80	29
12 7	2 29.64	+33 29.2	1.263	2.154	14.6	17.3	147 E	78	31
12 12	2 18.69	+31 51.4	1.278	2.129	17.3	17.4	140 E	77	32
12 17	2 9.33	+30 13.2	1.301	2.101	19.9	17.5	133 E	75	34
12 22	2 1.59	+28 37.8	1.329	2.073	22.4	17.6	127 E	74	35
12 27	1 55.44	+27 7.6	1.362	2.043	24.6	17.7	120 E	72	37
1 1	1 50.78	+25 44.2	1.400	2.011	26.5	17.7	114 E	71	38*
1 6	1 47.52	+24 28.7	1.439	1.978	28.2	17.8	108 E	69	39*
1 11	1 45.52	+23 21.6	1.480	1.943	29.7	17.9	102 E	68	39*
1 16	1 44.67	+22 22.9	1.522	1.906	30.8	17.9	97 E	67	38*
1 21	1 44.83	+21 32.1	1.563	1.868	31.8	18.0	91 E	67	37*

222753 2002 CY_{25}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 14.52	−29 59.6	3.952	3.094	7.9	20.9	26 E	4*	19*
1 6	20 30.13	−29 5.0	3.975	3.066	6.2	20.8	20 E	1*	13*
1 16	20 45.97	−28 6.0	3.981	3.038	4.6	20.7	14 E	—	8*
1 26	21 1.96	−27 2.9	3.971	3.009	3.4	20.6	11 E	—	4*
2 5	21 18.00	−25 56.1	3.945	2.978	3.3	20.6	10 E	—	—
2 15	21 34.05	−24 45.8	3.902	2.947	4.3	20.6	13 W	—	4*
2 25	21 50.05	−23 32.5	3.844	2.915	5.9	20.6	18 W	—	9*
3 7	22 5.94	−22 16.9	3.771	2.883	7.7	20.6	23 W	—	15*
3 17	22 21.71	−20 59.5	3.684	2.849	9.6	20.6	28 W	—	21*
3 27	22 37.30	−19 41.1	3.585	2.815	11.5	20.6	34 W	—	27*
4 6	22 52.70	−18 22.3	3.473	2.780	13.3	20.6	40 W	—	33*
4 16	23 7.88	−17 4.0	3.351	2.744	15.1	20.6	46 W	—	39*
4 26	23 22.79	−15 47.1	3.219	2.707	16.9	20.5	51 W	2*	45*
5 6	23 37.42	−14 32.4	3.079	2.670	18.5	20.4	57 W	4*	51*
5 16	23 51.72	−13 20.8	2.933	2.632	20.0	20.3	63 W	7*	57*
5 26	0 5.62	−12 13.4	2.781	2.593	21.4	20.2	69 W	10*	63*
6 5	0 19.05	−11 11.2	2.625	2.553	22.5	20.1	75 W	14*	68*
6 15	0 31.92	−10 15.3	2.466	2.513	23.5	20.0	81 W	18*	72*
6 25	0 44.09	− 9 26.9	2.306	2.473	24.2	19.8	87 W	23*	73*
7 5	0 55.40	− 8 47.3	2.147	2.432	24.7	19.6	94 W	28*	73
7 15	1 5.62	− 8 17.6	1.989	2.390	24.7	19.4	100 W	32*	72
7 25	1 14.47	− 7 59.0	1.836	2.348	24.4	19.2	107 W	35*	72
8 4	1 21.63	− 7 52.4	1.689	2.306	23.5	19.0	115 W	37*	72
8 14	1 26.68	− 7 58.4	1.549	2.264	22.1	18.7	123 W	37	72
8 24	1 29.18	− 8 16.5	1.421	2.221	20.0	18.4	131 W	37	72
9 3	1 28.70	− 8 44.8	1.306	2.179	17.3	18.1	140 W	36	73
9 13	1 24.89	− 9 19.4	1.207	2.136	13.9	17.8	149 W	36	73
9 18	1 21.73	− 9 36.9	1.166	2.115	12.0	17.6	154 W	35	74
9 23	1 17.78	− 9 53.1	1.129	2.094	10.2	17.4	158 W	35	74
9 28	1 13.12	−10 6.9	1.098	2.073	8.7	17.3	162 W	35	74
10 3	1 7.85	−10 16.9	1.072	2.052	7.8	17.2	164 W	35	74
10 8	1 2.16	−10 21.9	1.053	2.031	7.9	17.1	164 W	35	74
10 13	0 56.23	−10 20.5	1.039	2.011	9.0	17.1	162 E	35	74
10 18	0 50.29	−10 12.0	1.032	1.991	10.9	17.1	158 E	35	74
10 23	0 44.57	− 9 55.7	1.030	1.970	13.1	17.2	153 E	35	74
11 2	0 34.57	− 8 59.4	1.042	1.931	17.9	17.4	143 E	36	73
11 12	0 27.60	− 7 32.8	1.073	1.893	22.5	17.5	133 E	37	72
11 22	0 24.44	− 5 40.5	1.118	1.856	26.4	17.7	123 E	39	70
12 2	0 25.23	− 3 27.8	1.174	1.820	29.5	17.8	115 E	42	67
12 12	0 29.81	− 0 59.4	1.237	1.787	31.9	18.0	107 E	44	65*
12 22	0 37.83	+ 1 40.7	1.304	1.756	33.6	18.1	99 E	47	61*
1 1	0 48.87	+ 4 29.4	1.373	1.727	34.7	18.2	93 E	49	55*
1 11	1 2.59	+ 7 24.2	1.444	1.701	35.3	18.3	87 E	52	49*
1 21	1 18.71	+10 22.4	1.514	1.679	35.4	18.4	81 E	55*	43*

155370 1988 TX

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 14.63	−16 51.6	2.350	1.538	16.8	20.0	27 E	15*	14*
1 6	20 44.84	−15 14.2	2.367	1.523	15.3	19.9	24 E	14*	11*
1 16	21 14.97	−13 18.4	2.384	1.512	13.8	19.9	21 E	13*	8*
1 26	21 44.88	−11 6.6	2.402	1.505	12.2	19.8	19 E	11*	6*
2 5	22 14.46	− 8 41.6	2.422	1.502	10.7	19.8	16 E	9*	4*
2 15	22 43.69	− 6 6.5	2.443	1.504	9.1	19.7	14 E	7*	2*
2 25	23 12.55	− 3 24.9	2.466	1.509	7.5	19.7	12 E	5*	—
3 7	23 41.04	− 0 40.1	2.490	1.518	6.0	19.7	9 E	3*	—
3 17	0 9.21	+ 2 4.6	2.515	1.532	4.3	19.6	7 E	1*	—
3 27	0 37.08	+ 4 45.8	2.542	1.549	2.7	19.6	4 E	—	—
4 6	1 4.70	+ 7 20.7	2.569	1.569	1.1	19.5	2 E	—	—
4 16	1 32.11	+ 9 46.7	2.596	1.592	0.7	19.5	1 W	—	—
4 26	1 59.31	+12 1.6	2.621	1.619	2.3	19.7	4 W	—	—
5 6	2 26.30	+14 3.5	2.645	1.647	4.0	19.9	7 W	—	1*
5 16	2 53.07	+15 51.1	2.667	1.678	5.7	20.0	10 W	—	3*
5 26	3 19.55	+17 23.3	2.685	1.711	7.5	20.2	13 W	—	6*
6 5	3 45.70	+18 39.5	2.699	1.745	9.2	20.3	16 W	1*	9*

155370 1988 *TX* *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 15	4 11.44	+19 39.4	2.707	1.781	10.9	20.4	19 W	3*	12*
6 25	4 36.67	+20 23.2	2.710	1.818	12.6	20.5	23 W	6*	15*
7 5	5 1.28	+20 51.4	2.706	1.855	14.2	20.6	27 W	10*	18*
7 15	5 25.18	+21 4.5	2.695	1.893	15.9	20.7	31 W	14*	20*
7 25	5 48.25	+21 3.7	2.676	1.931	17.5	20.8	35 W	19*	23*
8 4	6 10.40	+20 50.1	2.649	1.970	19.0	20.9	39 W	24*	25*
8 14	6 31.53	+20 25.1	2.613	2.008	20.4	20.9	44 W	29*	27*
8 24	6 51.52	+19 50.2	2.568	2.047	21.8	21.0	49 W	35*	29*
9 3	7 10.29	+19 7.0	2.514	2.085	23.0	21.0	54 W	40*	31*
9 13	7 27.74	+18 17.2	2.451	2.123	24.1	21.0	59 W	45*	34*
9 23	7 43.72	+17 22.6	2.379	2.160	24.9	21.0	65 W	50*	36*
10 3	7 58.13	+16 25.1	2.300	2.197	25.6	21.0	71 W	54*	39*
10 13	8 10.77	+15 26.6	2.214	2.233	25.9	21.0	78 W	58*	42*
10 23	8 21.45	+14 29.4	2.122	2.269	25.9	20.9	85 W	59*	45*
11 2	8 29.94	+13 35.7	2.027	2.304	25.5	20.8	93 W	59	48*
11 12	8 35.95	+12 48.0	1.931	2.338	24.5	20.7	101 W	58	50*
11 22	8 39.19	+12 8.8	1.837	2.371	23.0	20.6	110 W	57	52
12 2	8 39.40	+11 40.7	1.749	2.403	20.7	20.4	120 W	57	52
12 12	8 36.39	+11 25.8	1.672	2.434	17.8	20.3	131 W	56	53
12 22	8 30.22	+11 25.5	1.611	2.465	14.1	20.1	142 W	56	53
1 1	8 21.28	+11 39.7	1.571	2.494	9.8	19.9	154 W	57	52
1 11	8 10.36	+12 6.7	1.557	2.523	5.4	19.7	166 W	57	52
1 21	7 58.69	+12 42.7	1.572	2.550	3.0	19.6	172 E	58	51

234360 2001 MV_{25}

12 27	20 14.67	−21 45.1	2.423	1.595	15.5	20.7	26 E	11*	16*
1 6	20 45.03	−20 26.6	2.452	1.591	13.8	20.6	23 E	10*	13*
1 16	21 15.00	−18 48.6	2.481	1.591	12.1	20.6	20 E	8*	11*
1 26	21 44.43	−16 53.5	2.508	1.593	10.4	20.6	17 E	7*	8*
2 5	22 13.22	−14 44.2	2.536	1.599	8.7	20.5	14 E	5*	6*
2 15	22 41.36	−12 23.8	2.563	1.608	7.1	20.5	12 E	2*	4*
2 25	23 8.83	− 9 55.6	2.590	1.620	5.5	20.5	9 E	—	2*
3 7	23 35.66	− 7 22.5	2.615	1.634	4.1	20.4	7 E	—	1*
3 17	0 1.90	− 4 47.5	2.640	1.651	3.1	20.4	5 E	—	—
3 27	0 27.61	− 2 13.5	2.663	1.671	2.9	20.4	5 E	—	—
4 6	0 52.85	+ 0 17.2	2.684	1.693	3.7	20.5	6 W	—	—
4 16	1 17.69	+ 2 42.5	2.702	1.717	5.0	20.7	9 W	—	1*
4 26	1 42.15	+ 5 0.3	2.717	1.742	6.6	20.8	11 W	—	5*
5 6	2 6.28	+ 7 9.1	2.728	1.769	8.2	20.9	14 W	—	8*
5 16	2 30.09	+ 9 7.6	2.734	1.798	9.9	21.0	18 W	—	12*
5 26	2 53.58	+10 54.8	2.735	1.828	11.5	21.1	21 W	—	15*
6 5	3 16.73	+12 29.8	2.731	1.858	13.2	21.2	25 W	1*	19*
6 15	3 39.51	+13 52.4	2.719	1.889	14.8	21.3	28 W	4*	22*
6 25	4 1.86	+15 2.2	2.701	1.921	16.5	21.4	32 W	8*	25*
7 5	4 23.71	+15 59.3	2.675	1.954	18.0	21.4	36 W	13*	28*
7 15	4 44.97	+16 44.1	2.642	1.986	19.5	21.5	41 W	18*	30*

459046 2012 AS_{10}

12 27	20 15.28	−27 9.8	1.897	1.095	22.8	19.9	26 E	6*	18*
1 1	20 37.73	−25 59.4	1.935	1.132	22.1	20.0	26 E	7*	18*
1 6	20 58.96	−24 39.8	1.977	1.169	21.3	20.1	26 E	8*	18*
1 11	21 19.01	−23 13.2	2.021	1.207	20.4	20.1	25 E	9*	17*
1 16	21 37.95	−21 41.4	2.067	1.245	19.4	20.2	25 E	9*	17*
1 21	21 55.85	−20 6.1	2.114	1.283	18.4	20.3	24 E	9*	16*
1 26	22 12.80	−18 28.6	2.163	1.321	17.3	20.4	24 E	10*	15*
1 31	22 28.87	−16 50.0	2.213	1.358	16.2	20.5	23 E	9*	14*
2 5	22 44.16	−15 11.1	2.263	1.395	15.1	20.5	22 E	9*	13*
2 10	22 58.75	−13 32.6	2.313	1.431	14.0	20.6	21 E	9*	12*
2 15	23 12.72	−11 55.1	2.363	1.467	12.8	20.7	19 E	8*	11*
2 20	23 26.11	−10 18.9	2.412	1.502	11.7	20.7	18 E	7*	10*
2 25	23 39.00	− 8 44.5	2.460	1.537	10.5	20.8	16 E	6*	9*
3 2	23 51.44	− 7 12.0	2.507	1.571	9.4	20.8	15 E	5*	7*
3 7	0 3.47	− 5 41.7	2.553	1.604	8.2	20.8	13 E	3*	6*
3 12	0 15.15	− 4 13.5	2.597	1.637	7.1	20.9	12 E	2*	5*
3 17	0 26.51	− 2 47.7	2.639	1.669	6.0	20.9	10 E	—	4*
3 22	0 37.58	− 1 24.3	2.679	1.700	4.9	20.9	8 E	—	2*
3 27	0 48.39	− 0 3.4	2.717	1.730	3.9	20.9	7 E	—	1*
4 1	0 58.96	+ 1 15.0	2.752	1.760	3.1	20.9	5 E	—	—
4 6	1 9.33	+ 2 31.0	2.785	1.789	2.5	21.0	5 E	—	—
4 11	1 19.51	+ 3 44.5	2.815	1.817	2.5	21.0	4 E	—	—
4 16	1 29.52	+ 4 55.5	2.842	1.845	2.9	21.1	5 W	—	—
4 21	1 39.37	+ 6 4.0	2.866	1.872	3.7	21.2	7 W	—	—
4 26	1 49.07	+ 7 10.1	2.886	1.898	4.6	21.3	9 W	—	2*
5 1	1 58.64	+ 8 13.8	2.904	1.923	5.6	21.4	11 W	—	4*
5 6	2 8.08	+ 9 15.0	2.918	1.948	6.6	21.5	13 W	—	7*

467365 2003 WB_{26}

12 27	20 15.33	−33 32.3	2.529	1.706	14.9	20.8	27 E	1*	20*
1 6	20 46.65	−32 15.2	2.530	1.679	13.8	20.7	24 E	—	18*
1 16	21 17.97	−30 33.1	2.528	1.655	12.7	20.7	22 E	—	16*
1 26	21 49.01	−28 27.2	2.525	1.633	11.8	20.6	20 E	—	14*
2 5	22 19.54	−25 59.8	2.522	1.615	11.0	20.5	18 E	—	12*

467365 2003 WB_{26} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 15	22 49.46	−23 13.4	2.520	1.600	10.3	20.5	17 E	—	10*
2 25	23 18.67	−20 11.5	2.519	1.589	9.7	20.4	16 E	—	9*
3 7	23 47.15	−16 57.7	2.520	1.581	9.2	20.4	15 E	—	7*
3 17	0 14.95	−13 35.8	2.523	1.577	8.8	20.4	14 E	—	6*
3 27	0 42.11	−10 9.8	2.529	1.576	8.5	20.4	14 E	—	4*
4 6	1 8.71	− 6 43.3	2.537	1.580	8.4	20.4	13 E	—	2*
4 16	1 34.85	− 3 19.6	2.547	1.588	8.4	20.4	13 W	—	—
4 26	2 0.57	− 0 1.9	2.558	1.599	8.7	20.4	14 W	—	3*
5 6	2 25.97	+ 3 7.5	2.568	1.613	9.2	20.5	15 W	—	6*
5 16	2 51.11	+ 6 6.3	2.578	1.631	9.9	20.6	16 W	—	8*
5 26	3 16.00	+ 8 52.9	2.586	1.653	10.9	20.6	18 W	—	11*
6 5	3 40.69	+11 26.3	2.591	1.677	12.1	20.7	20 W	—	14*
6 15	4 5.17	+13 45.7	2.593	1.703	13.4	20.8	23 W	—	17*
6 25	4 29.42	+15 50.7	2.589	1.732	14.8	20.9	26 W	4*	19*
7 5	4 53.40	+17 41.7	2.580	1.763	16.3	21.0	29 W	9*	21*
7 15	5 17.06	+19 19.0	2.564	1.796	17.9	21.0	33 W	14*	23*
7 25	5 40.31	+20 43.3	2.541	1.830	19.4	21.1	37 W	20*	24*
8 4	6 3.08	+21 56.1	2.510	1.865	20.8	21.2	41 W	26*	25*
8 14	6 25.27	+22 58.7	2.472	1.902	22.3	21.2	45 W	32*	26*
8 24	6 46.77	+23 53.0	2.426	1.939	23.6	21.3	50 W	38*	27*
9 3	7 7.46	+24 41.2	2.371	1.977	24.8	21.3	55 W	44*	27*
9 13	7 27.22	+25 25.7	2.309	2.015	25.8	21.3	61 W	50*	28*
9 23	7 45.89	+26 9.3	2.240	2.053	26.6	21.3	66 W	56*	29*
10 3	8 3.33	+26 55.2	2.164	2.092	27.1	21.3	72 W	62*	29*
10 13	8 19.33	+27 46.8	2.082	2.131	27.4	21.3	79 W	68*	30*
10 23	8 33.64	+28 47.7	1.998	2.169	27.2	21.2	86 W	73*	31*
11 2	8 45.99	+30 1.4	1.911	2.207	26.7	21.1	94 W	75	31*
11 12	8 56.00	+31 31.5	1.826	2.245	25.6	21.0	102 W	77	31*
11 22	9 3.25	+33 20.3	1.745	2.283	23.9	20.9	110 W	78	30*
12 2	9 7.24	+35 28.6	1.671	2.320	21.7	20.8	119 W	80	29
12 12	9 7.43	+37 53.7	1.611	2.356	19.0	20.7	129 W	83	26
12 22	9 3.43	+40 28.6	1.568	2.392	15.9	20.5	138 W	85	24
1 1	8 55.16	+43 1.6	1.546	2.428	12.9	20.4	146 W	88	21
1 6	8 49.53	+44 12.7	1.545	2.445	11.7	20.4	150 W	89	20
1 11	8 43.11	+45 17.5	1.550	2.462	10.8	20.4	152 W	90	19
1 16	8 36.07	+46 14.5	1.562	2.479	10.3	20.4	153 W	89	18
1 21	8 28.67	+47 2.3	1.580	2.496	10.4	20.4	153 W	88	17

5510 1988 RF_7

12 27	20 15.36	−21 33.7	2.524	1.694	14.7	17.5	26 E	11*	16*
1 6	20 43.61	−20 10.9	2.548	1.681	12.9	17.4	22 E	10*	13*
1 16	21 11.69	−18 30.7	2.569	1.671	11.1	17.4	19 E	8*	10*
1 26	21 39.49	−16 34.9	2.588	1.663	9.3	17.3	16 E	6*	7*
2 5	22 6.91	−14 25.5	2.605	1.658	7.6	17.2	13 E	4*	5*
2 15	22 33.93	−12 5.0	2.620	1.656	5.8	17.1	10 E	1*	2*
2 25	23 0.54	− 9 36.0	2.634	1.656	4.2	17.1	7 E	—	—
3 7	23 26.75	− 7 1.1	2.646	1.658	2.7	17.0	5 E	—	—
3 17	23 52.61	− 4 23.0	2.656	1.664	2.0	17.0	3 E	—	—
3 27	0 18.16	− 1 44.3	2.664	1.671	2.6	17.0	4 W	—	—
4 6	0 43.44	+ 0 52.5	2.671	1.682	4.0	17.1	7 W	—	—
4 16	1 8.52	+ 3 25.2	2.676	1.694	5.6	17.2	10 W	—	3*
4 26	1 33.42	+ 5 51.7	2.678	1.709	7.3	17.3	12 W	—	6*
5 6	1 58.17	+ 8 10.0	2.677	1.726	9.0	17.4	15 W	—	9*
5 16	2 22.81	+10 18.6	2.673	1.745	10.7	17.5	19 W	—	13*
5 26	2 47.30	+12 15.9	2.665	1.766	12.3	17.6	22 W	—	16*
6 5	3 11.63	+14 1.1	2.653	1.788	14.0	17.7	25 W	3*	19*
6 15	3 35.77	+15 33.2	2.636	1.811	15.6	17.7	29 W	6*	22*
6 25	3 59.62	+16 51.7	2.613	1.836	17.2	17.8	32 W	10*	24*
7 5	4 23.13	+17 56.5	2.585	1.862	18.8	17.9	36 W	14*	26*
7 15	4 46.19	+18 47.7	2.550	1.889	20.3	17.9	40 W	19*	28*
7 25	5 8.67	+19 25.6	2.509	1.916	21.7	18.0	44 W	25*	30*
8 4	5 30.46	+19 51.2	2.460	1.945	23.0	18.0	49 W	30*	32*
8 14	5 51.41	+20 5.3	2.405	1.973	24.3	18.0	53 W	36*	33*
8 24	6 11.38	+20 9.4	2.342	2.002	25.4	18.0	58 W	42*	35*
9 3	6 30.23	+20 5.0	2.273	2.031	26.4	18.0	63 W	47*	36*
9 13	6 47.76	+19 53.9	2.196	2.061	27.1	18.0	69 W	53*	38*
9 23	7 3.79	+19 38.2	2.113	2.090	27.6	18.0	75 W	57*	39*
10 3	7 18.11	+19 20.3	2.025	2.119	27.8	17.9	81 W	61*	41*
10 13	7 30.46	+19 2.7	1.933	2.148	27.7	17.8	88 W	64*	43*
10 23	7 40.54	+18 48.2	1.839	2.177	27.1	17.7	96 W	64	44*
11 2	7 48.03	+18 39.6	1.744	2.205	25.9	17.6	104 W	64	45*
11 12	7 52.55	+18 39.7	1.653	2.233	24.1	17.5	113 W	64	45
11 22	7 53.75	+18 50.9	1.568	2.261	21.6	17.3	123 W	64	45
12 2	7 51.40	+19 14.5	1.494	2.288	18.2	17.1	134 W	64	45
12 12	7 45.45	+19 50.2	1.437	2.314	14.1	16.9	145 W	65	44
12 22	7 36.31	+20 35.4	1.400	2.340	9.2	16.7	158 W	66	43
12 27	7 30.81	+21 0.0	1.392	2.353	6.6	16.6	164 W	66	43
1 1	7 24.89	+21 25.1	1.390	2.365	3.9	16.4	171 W	66	43
1 6	7 18.75	+21 49.9	1.395	2.378	1.2	16.3	177 W	67	42
1 11	7 12.59	+22 13.8	1.408	2.390	1.5	16.3	176 E	67	42
1 16	7 6.62	+22 36.2	1.427	2.402	4.1	16.5	170 E	68	41
1 21	7 1.03	+22 56.8	1.454	2.414	6.7	16.7	163 E	68	41

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
177016 2003 BM_{47}									
12 27	20 15.36	−23 6.8	1.279	0.579	47.4	20.9	26 E	10*	17*
1 1	20 53.62	−22 21.6	1.259	0.629	50.2	21.2	29 E	12*	20*
1 6	21 30.16	−21 6.6	1.249	0.684	51.6	21.4	33 E	15*	23*
1 11	22 4.63	−19 26.9	1.251	0.741	51.8	21.5	36 E	17*	26*
1 16	22 36.86	−17 28.6	1.262	0.798	51.2	21.7	39 E	20*	28*
247179 2001 DC_9									
12 27	20 16.32	−29 55.9	3.179	2.335	10.6	21.3	26 E	4*	20*
1 6	20 36.16	−28 1.5	3.195	2.302	8.7	21.2	21 E	2*	14*
1 16	20 55.95	−25 59.2	3.200	2.268	6.7	21.1	16 E	—	9*
1 26	21 15.64	−23 48.8	3.192	2.234	4.9	21.0	11 E	—	5*
2 5	21 35.19	−21 30.5	3.174	2.200	3.3	20.8	7 E	—	1*
2 15	21 54.60	−19 4.3	3.144	2.165	2.9	20.8	6 E	—	—
2 25	22 13.86	−16 30.6	3.104	2.130	4.0	20.8	9 W	—	1*
3 7	22 32.99	−13 49.5	3.054	2.096	5.8	20.8	12 W	—	6*
3 17	22 52.03	−11 1.3	2.995	2.061	7.9	20.8	17 W	—	10*
3 27	23 11.01	− 8 6.4	2.928	2.026	10.1	20.8	21 W	—	15*
4 6	23 30.00	− 5 4.9	2.853	1.992	12.3	20.8	25 W	2*	19*
4 16	23 49.07	− 1 57.2	2.772	1.959	14.5	20.8	29 W	4*	23*
4 26	0 8.27	+ 1 16.4	2.686	1.926	16.7	20.8	33 W	7*	27*
5 6	0 27.73	+ 4 35.5	2.595	1.893	18.8	20.7	37 W	10*	31*
5 16	0 47.53	+ 7 59.8	2.502	1.862	20.9	20.7	41 W	13*	33*
5 26	1 7.80	+11 28.7	2.406	1.832	22.9	20.6	45 W	17*	36*
6 5	1 28.67	+15 1.4	2.309	1.804	24.9	20.5	48 W	22*	37*
6 15	1 50.29	+18 37.1	2.213	1.777	26.8	20.5	52 W	27*	37*
6 25	2 12.82	+22 14.2	2.117	1.751	28.5	20.4	55 W	32*	36*
7 5	2 36.47	+25 51.2	2.024	1.728	30.1	20.3	59 W	38*	34*
7 10	2 48.76	+27 39.0	1.978	1.718	30.9	20.3	60 W	41*	33*
7 15	3 1.40	+29 25.9	1.933	1.707	31.7	20.2	62 W	45*	32*
7 20	3 14.40	+31 11.4	1.890	1.698	32.3	20.2	63 W	48*	31*
7 25	3 27.79	+32 55.2	1.847	1.689	33.0	20.2	65 W	51*	29*
7 30	3 41.59	+34 37.0	1.805	1.681	33.6	20.1	66 W	54*	28*
8 4	3 55.82	+36 16.2	1.764	1.673	34.2	20.1	68 W	57*	26*
8 9	4 10.49	+37 52.3	1.724	1.666	34.7	20.0	70 W	60*	25*
8 14	4 25.58	+39 24.8	1.685	1.660	35.2	20.0	71 W	62*	24*
8 19	4 41.09	+40 53.3	1.648	1.655	35.7	19.9	73 W	65*	22*
8 24	4 57.02	+42 17.2	1.611	1.650	36.1	19.9	74 W	67*	21*
8 29	5 13.34	+43 36.1	1.576	1.647	36.4	19.9	76 W	69*	19*
9 3	5 30.00	+44 49.6	1.542	1.644	36.8	19.8	77 W	71*	18*
9 8	5 46.94	+45 57.5	1.508	1.641	37.0	19.8	79 W	73*	17*
9 13	6 4.08	+46 59.4	1.476	1.640	37.2	19.7	80 W	74*	16*
9 18	6 21.34	+47 55.2	1.445	1.639	37.4	19.7	82 W	76*	15*
9 23	6 38.62	+48 44.9	1.414	1.639	37.5	19.6	84 W	77*	14*
9 28	6 55.80	+49 28.7	1.384	1.640	37.5	19.6	85 W	78*	13*
10 3	7 12.77	+50 7.0	1.355	1.642	37.5	19.5	87 W	79*	12*
10 8	7 29.38	+50 40.1	1.326	1.645	37.4	19.5	89 W	80*	12*
10 13	7 45.49	+51 8.7	1.298	1.648	37.3	19.5	91 W	81*	11*
10 18	8 1.00	+51 33.4	1.270	1.652	37.0	19.4	93 W	82*	11*
10 23	8 15.78	+51 54.9	1.243	1.657	36.7	19.4	95 W	83*	10*
10 28	8 29.70	+52 14.0	1.216	1.663	36.4	19.3	97 W	83*	10*
11 2	8 42.63	+52 31.8	1.190	1.670	35.9	19.3	99 W	82	10*
11 7	8 54.46	+52 49.0	1.163	1.677	35.3	19.2	102 W	82	10*
11 12	9 5.05	+53 6.3	1.138	1.685	34.7	19.1	104 W	82	10*
11 17	9 14.30	+53 24.3	1.113	1.693	33.9	19.1	107 W	82	10*
11 22	9 22.09	+53 43.5	1.088	1.702	33.0	19.0	110 W	81	10*
11 27	9 28.28	+54 4.2	1.065	1.712	32.0	19.0	113 W	81	10*
12 2	9 32.72	+54 26.4	1.042	1.722	30.9	18.9	116 W	81	9*
12 7	9 35.27	+54 49.7	1.021	1.733	29.6	18.8	120 W	80	9
12 12	9 35.80	+55 13.0	1.002	1.745	28.3	18.8	123 W	80	9
12 17	9 34.22	+55 35.0	0.984	1.757	26.8	18.7	126 W	79	8
12 22	9 30.48	+55 53.7	0.969	1.770	25.2	18.6	130 W	79	8
12 27	9 24.61	+56 6.9	0.957	1.783	23.6	18.6	133 W	79	8
1 1	9 16.74	+56 11.8	0.949	1.796	22.0	18.5	137 W	79	8
1 6	9 7.17	+56 5.4	0.944	1.810	20.5	18.5	140 W	79	8
1 11	8 56.38	+55 45.2	0.944	1.824	19.2	18.5	142 W	79	8
1 13	8 51.85	+55 32.9	0.945	1.830	18.7	18.4	143 W	79	8
1 15	8 47.26	+55 18.0	0.947	1.836	18.3	18.4	144 W	80	9
1 17	8 42.64	+55 0.6	0.950	1.842	18.0	18.4	145 W	80	9
1 19	8 38.04	+54 40.6	0.953	1.848	17.7	18.5	145 W	80	9
1 21	8 33.50	+54 18.1	0.958	1.854	17.5	18.5	145 W	81	10
5332 Davidaguilar									
12 27	20 16.40	−16 4.4	3.407	2.575	10.2	20.2	27 E	16*	14*
1 6	20 32.84	−15 50.2	3.425	2.533	8.1	20.1	21 E	12*	9*
1 16	20 49.81	−15 27.5	3.427	2.490	5.9	19.9	15 E	7*	4*
1 26	21 7.23	−14 56.6	3.413	2.446	3.6	19.8	9 E	2*	—
2 5	21 25.05	−14 18.3	3.384	2.400	1.3	19.5	3 E	—	—
2 15	21 43.27	−13 33.1	3.339	2.353	1.1	19.4	3 W	—	—
2 25	22 1.84	−12 41.7	3.279	2.304	3.5	19.5	8 W	—	2*
3 7	22 20.78	−11 45.0	3.205	2.254	6.0	19.6	14 W	—	8*
3 17	22 40.13	−10 43.6	3.119	2.202	8.4	19.6	19 W	—	13*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
5332 Davidaguilar *(continuation)*									
	h m	° ′			°	m	°	°	°
3 27	22 59.90	− 9 38.5	3.022	2.149	10.9	19.5	24 W	—	18*
4 6	23 20.18	− 8 30.6	2.915	2.095	13.3	19.5	29 W	1*	23*
4 16	23 41.04	− 7 20.8	2.799	2.039	15.8	19.4	34 W	2*	27*
4 26	0 2.58	− 6 10.5	2.677	1.983	18.2	19.4	38 W	2*	32*
5 6	0 24.91	− 5 0.6	2.550	1.925	20.6	19.3	42 W	3*	36*
5 16	0 48.19	− 3 52.4	2.420	1.867	23.0	19.2	46 W	5*	40*
5 26	1 12.55	− 2 47.5	2.289	1.808	25.3	19.0	50 W	6*	44*
6 5	1 38.17	− 1 47.4	2.158	1.748	27.6	18.9	53 W	8*	47*
6 15	2 5.21	− 0 53.8	2.031	1.688	29.9	18.8	56 W	10*	49*
6 25	2 33.80	− 0 8.8	1.910	1.629	32.2	18.6	59 W	13*	51*
7 5	3 4.08	+ 0 25.9	1.795	1.570	34.3	18.5	61 W	16*	53*
7 15	3 36.09	+ 0 48.3	1.690	1.512	36.5	18.3	62 W	19*	53*
7 25	4 9.79	+ 0 56.9	1.596	1.456	38.5	18.2	63 W	22*	54*
8 4	4 45.04	+ 0 51.2	1.514	1.402	40.5	18.0	64 W	25*	54*
8 14	5 21.57	+ 0 31.1	1.446	1.352	42.3	17.9	64 W	27*	53*
8 24	5 58.97	− 0 1.8	1.390	1.306	43.9	17.8	64 W	29*	52*
9 3	6 36.82	− 0 44.6	1.347	1.266	45.3	17.7	63 W	30*	51*
9 13	7 14.64	− 1 34.0	1.314	1.232	46.4	17.6	62 W	31*	50*
9 23	7 52.02	− 2 25.7	1.291	1.206	47.3	17.5	62 W	32*	49*
10 3	8 28.68	− 3 16.0	1.273	1.188	47.8	17.5	62 W	34*	48*
10 13	9 4.36	− 4 1.4	1.260	1.180	48.1	17.5	62 W	35*	47*
10 23	9 38.91	− 4 38.6	1.248	1.181	48.3	17.5	62 W	36*	46*
11 2	10 12.25	− 5 5.2	1.235	1.192	48.2	17.5	64 W	37*	46*
11 12	10 44.28	− 5 18.5	1.220	1.212	48.0	17.5	66 W	38*	46*
11 22	11 14.89	− 5 15.5	1.202	1.240	47.7	17.5	68 W	39*	47*
12 2	11 43.98	− 4 53.7	1.180	1.276	47.1	17.5	72 W	40*	49*
12 12	12 11.34	− 4 9.4	1.154	1.318	46.4	17.5	76 W	41	51*
12 22	12 36.75	− 2 59.1	1.124	1.365	45.3	17.5	80 W	42	54*
1 1	12 59.94	− 1 19.5	1.091	1.416	43.8	17.4	86 W	44	57*
1 11	13 20.49	+ 0 53.1	1.057	1.471	41.9	17.4	92 W	46	59*
1 21	13 38.00	+ 3 40.9	1.023	1.527	39.5	17.3	99 W	49	59*
360509 2003 OD_3									
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*
1 26	21 42.09	−13 59.5	2.554	1.639	10.2	20.9	17 E	9*	6*
2 5	22 10.19	−12 13.5	2.575	1.636	8.4	20.8	14 E	6*	4*
2 15	22 37.96	−10 16.4	2.595	1.637	6.7	20.7	11 E	3*	2*
2 25	23 5.35	− 8 11.0	2.614	1.641	5.0	20.7	8 E	—	1*
3 7	23 32.37	− 6 0.0	2.632	1.647	3.4	20.6	6 E	—	—
3 17	23 59.02	− 3 46.1	2.649	1.657	2.3	20.6	4 E	—	—
3 27	0 25.32	− 1 32.1	2.664	1.670	2.4	20.6	4 E	—	—
4 6	0 51.30	+ 0 39.5	2.678	1.686	3.6	20.7	6 W	—	—
4 16	1 16.99	+ 2 46.6	2.689	1.704	5.1	20.8	9 W	—	1*
4 26	1 42.40	+ 4 46.7	2.699	1.725	6.7	20.9	12 W	—	5*
5 6	2 7.54	+ 6 38.3	2.705	1.748	8.4	21.1	15 W	—	8*
5 16	2 32.40	+ 8 19.6	2.708	1.772	10.0	21.2	18 W	—	12*
5 26	2 56.95	+ 9 49.5	2.707	1.799	11.7	21.3	21 W	—	15*
6 5	3 21.16	+11 6.9	2.702	1.827	13.3	21.3	24 W	—	18*
6 15	3 44.97	+12 11.2	2.692	1.857	14.9	21.4	28 W	2*	22*
6 25	4 8.30	+13 1.9	2.676	1.888	16.4	21.5	32 W	6*	25*
74576 1999 NG_{25}									
12 27	20 16.92	−23 2.2	2.449	1.624	15.4	20.0	26 E	10*	17*
1 6	20 47.29	−21 27.7	2.500	1.642	13.6	20.0	23 E	9*	14*
1 16	21 16.66	−19 36.0	2.552	1.663	11.7	20.1	20 E	8*	11*
1 26	21 44.94	−17 30.3	2.603	1.687	9.9	20.1	17 E	6*	9*
2 5	22 12.12	−15 14.3	2.654	1.713	8.0	20.1	14 E	4*	6*
2 15	22 38.25	−12 50.9	2.702	1.742	6.1	20.0	11 E	1*	4*
2 25	23 3.39	−10 23.3	2.748	1.773	4.3	20.0	8 E	—	1*
3 7	23 27.61	− 7 54.0	2.791	1.805	2.8	20.0	5 E	—	—
3 17	23 51.02	− 5 25.4	2.830	1.839	2.2	20.0	4 E	—	—
3 27	0 13.69	− 2 59.3	2.863	1.874	3.2	20.2	6 W	—	—
4 6	0 35.69	− 0 37.6	2.891	1.910	4.8	20.3	9 W	—	2*
4 16	0 57.11	+ 1 38.6	2.912	1.946	6.6	20.5	13 W	—	6*
4 26	1 17.98	+ 3 47.9	2.926	1.984	8.4	20.6	17 W	—	11*
5 6	1 38.34	+ 5 49.5	2.932	2.021	10.2	20.7	21 W	—	15*
5 16	1 58.21	+ 7 42.7	2.929	2.059	12.1	20.8	25 W	1*	19*
5 26	2 17.60	+ 9 26.9	2.917	2.098	13.8	20.9	30 W	3*	23*
6 5	2 36.48	+11 1.7	2.896	2.136	15.5	21.0	34 W	7*	27*
6 15	2 54.82	+12 26.9	2.866	2.174	17.1	21.1	39 W	11*	31*
6 25	3 12.55	+13 42.3	2.825	2.211	18.6	21.1	44 W	16*	35*
7 5	3 29.59	+14 48.2	2.775	2.249	20.0	21.2	49 W	22*	38*
7 15	3 45.85	+15 44.6	2.716	2.285	21.3	21.2	55 W	28*	40*
7 25	4 1.19	+16 31.9	2.647	2.322	22.4	21.2	61 W	35*	42*
8 4	4 15.45	+17 10.7	2.570	2.358	23.3	21.2	67 W	42*	43*
8 14	4 28.43	+17 41.6	2.485	2.393	23.9	21.2	73 W	48*	44*
8 24	4 39.92	+18 5.3	2.393	2.428	24.2	21.2	80 W	55*	45*
9 3	4 49.66	+18 22.8	2.297	2.462	24.2	21.1	87 W	60*	45*
9 13	4 57.35	+18 35.1	2.197	2.495	23.7	21.0	95 W	63*	45
9 23	5 2.66	+18 43.1	2.098	2.528	22.7	20.9	103 W	64	45

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
74576 1999 NG_{25} *(continuation)*									
	h m	° ′			°	m	°	°	°
10 3	5 5.29	+18 47.7	2.002	2.559	21.2	20.8	113 W	64	45
10 13	5 4.94	+18 49.7	1.913	2.590	19.0	20.6	123 W	64	45
10 23	5 1.45	+18 49.5	1.836	2.620	16.1	20.5	133 W	64	45
11 2	4 54.91	+18 47.4	1.776	2.649	12.5	20.3	145 W	64	45
11 12	4 45.71	+18 43.2	1.739	2.677	8.4	20.1	157 W	64	45
11 22	4 34.70	+18 37.3	1.728	2.705	3.9	19.9	169 W	64	45
11 27	4 28.87	+18 33.9	1.733	2.718	1.8	19.8	175 W	64	45
12 2	4 23.02	+18 30.6	1.747	2.731	1.5	19.8	176 E	64	45
12 7	4 17.32	+18 27.4	1.767	2.744	3.4	20.0	170 E	63	46
12 12	4 11.93	+18 24.9	1.796	2.756	5.5	20.1	164 E	63	46
12 22	4 2.57	+18 22.6	1.873	2.781	9.5	20.4	152 E	63	46
1 1	3 55.65	+18 25.5	1.976	2.805	12.9	20.7	140 E	63	46
1 11	3 51.56	+18 35.1	2.100	2.827	15.6	20.9	129 E	64	45
1 21	3 50.32	+18 51.4	2.240	2.849	17.6	21.1	119 E	64	45
438105 2005 GO_{22}									
12 27	20 17.18	−20 13.4	1.002	0.456	74.5	19.6	27 E	13*	16*
12 29	20 20.42	−19 57.7	0.951	0.424	81.7	19.6	25 E	12*	15*
12 31	20 22.43	−19 44.9	0.897	0.396	90.4	19.6	24 E	11*	13*
1 2	20 22.72	−19 36.7	0.843	0.372	100.8	19.9	22 E	10*	12*
1 4	20 20.67	−19 35.1	0.789	0.353	113.1	20.3	19 E	9*	9*
1 6	20 15.68	−19 41.5	0.738	0.342	127.1	21.1	16 E	6*	7*
154029 2002 CY_{46}									
12 27	20 17.51	−31 7.5	1.804	1.022	25.4	18.9	26 E	3*	20*
1 1	20 38.00	−27 52.4	1.822	1.030	24.5	18.9	26 E	6*	19*
1 6	20 56.91	−24 31.3	1.844	1.041	23.6	18.9	25 E	8*	17*
1 11	21 14.46	−21 7.0	1.869	1.055	22.7	19.0	24 E	10*	16*
1 16	21 30.83	−17 42.0	1.896	1.071	21.7	19.0	24 E	12*	14*
1 21	21 46.21	−14 17.9	1.925	1.091	20.7	19.0	23 E	13*	11*
1 26	22 0.77	−10 56.3	1.956	1.112	19.8	19.1	23 E	14*	9*
1 31	22 14.65	− 7 38.0	1.988	1.136	18.9	19.1	22 E	14*	7*
2 5	22 27.97	− 4 23.6	2.020	1.161	18.1	19.2	22 E	15*	5*
2 15	22 53.41	+ 1 51.8	2.087	1.216	16.8	19.3	21 E	15*	1*
2 25	23 17.79	+ 7 48.1	2.155	1.275	15.7	19.5	20 E	14*	—
3 7	23 41.65	+13 25.1	2.222	1.337	15.0	19.6	20 E	13*	—
3 17	0 5.44	+18 43.1	2.287	1.401	14.5	19.7	21 E	12*	—
3 27	0 29.49	+23 42.2	2.351	1.466	14.3	19.9	21 E	10*	—
4 6	0 54.09	+28 22.4	2.412	1.532	14.2	20.0	22 W	11*	—
4 16	1 19.53	+32 43.4	2.471	1.597	14.2	20.2	23 W	13*	—
4 26	1 46.01	+36 44.4	2.527	1.661	14.3	20.3	24 W	15*	—
5 6	2 13.72	+40 24.6	2.580	1.724	14.5	20.5	25 W	17*	—
5 16	2 42.81	+43 42.7	2.630	1.785	14.7	20.6	27 W	19*	—
5 26	3 13.34	+46 37.4	2.676	1.845	15.0	20.7	28 W	21*	—
6 5	3 45.26	+49 7.6	2.718	1.904	15.3	20.8	30 W	23*	—
6 15	4 18.43	+51 12.5	2.754	1.960	15.7	20.9	31 W	25*	—
6 25	4 52.52	+52 51.7	2.785	2.015	16.1	21.0	33 W	27*	—
7 5	5 27.10	+54 5.6	2.810	2.068	16.6	21.1	35 W	29*	—
7 15	6 1.65	+54 55.6	2.827	2.118	17.1	21.2	38 W	31*	—
7 25	6 35.61	+55 24.1	2.837	2.167	17.7	21.3	40 W	33*	—
8 4	7 8.49	+55 34.0	2.839	2.214	18.3	21.3	43 W	35*	—
8 14	7 39.89	+55 29.1	2.832	2.259	19.0	21.4	47 W	38*	—
8 24	8 9.51	+55 13.5	2.817	2.302	19.7	21.4	50 W	41*	—
9 3	8 37.21	+54 51.2	2.791	2.343	20.4	21.5	54 W	44*	—
392704 2012 AE_{1}									
12 27	20 18.61	−23 31.8	1.631	0.868	30.2	21.1	26 E	10*	18*
1 1	20 41.93	−21 38.8	1.595	0.844	31.8	21.0	27 E	11*	18*
1 6	21 5.34	−19 28.7	1.559	0.825	33.5	20.9	28 E	13*	17*
1 11	21 28.77	−17 2.2	1.525	0.810	35.4	20.9	28 E	15*	17*
1 16	21 52.15	−14 20.6	1.492	0.800	37.3	20.9	30 E	17*	17*
1 21	22 15.44	−11 25.5	1.462	0.796	39.2	20.9	31 E	19*	17*
1 26	22 38.64	− 8 19.2	1.435	0.797	41.1	20.9	32 E	21*	17*
1 31	23 1.75	− 5 4.3	1.411	0.804	42.7	20.9	34 E	24*	17*
2 5	23 24.82	− 1 43.8	1.391	0.815	44.2	21.0	35 E	26*	16*
2 10	23 47.89	+ 1 39.3	1.376	0.832	45.3	21.0	37 E	28*	16*
2 15	0 11.02	+ 5 1.6	1.366	0.853	46.0	21.1	38 E	30*	16*
2 20	0 34.24	+ 8 20.0	1.361	0.878	46.5	21.1	40 E	32*	16*
2 25	0 57.59	+11 31.3	1.363	0.906	46.6	21.2	42 E	34*	17*
3 2	1 21.07	+14 32.5	1.370	0.936	46.3	21.3	43 E	36*	17*
3 7	1 44.68	+17 21.3	1.383	0.969	45.9	21.4	45 E	37*	17*
3 12	2 8.40	+19 55.5	1.401	1.004	45.2	21.5	46 E	38*	17*
152964 2000 GP_{82}									
12 27	20 18.88	−23 8.2	2.394	1.576	16.1	21.5	26 E	10*	18*
1 6	20 45.54	−22 5.0	2.387	1.527	14.3	21.3	23 E	9*	14*
1 16	21 12.94	−20 43.2	2.368	1.474	12.6	21.2	19 E	7*	11*
1 26	21 41.06	−19 2.0	2.339	1.419	11.0	21.0	16 E	4*	8*
2 5	22 9.95	−17 1.0	2.302	1.362	9.6	20.8	13 E	2*	6*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
152964 2000 GP_{82} *(continuation)*									
	h m	° ′			°	m	°	°	°
2 15	22 39.68	−14 39.8	2.257	1.302	8.5	20.6	11 E	—	5*
2 25	23 10.36	−11 58.3	2.205	1.241	7.8	20.4	10 E	—	4*
3 7	23 42.15	− 8 56.7	2.150	1.179	7.4	20.3	9 E	—	3*
3 17	0 15.28	− 5 35.5	2.092	1.117	7.4	20.1	8 E	—	2*
3 27	0 50.00	− 1 56.6	2.035	1.056	7.6	19.9	8 E	—	2*
4 6	1 26.61	+ 1 56.9	1.980	0.999	8.1	19.7	8 E	—	2*
4 11	1 45.73	+ 3 57.8	1.954	0.972	8.4	19.7	8 E	—	2*
4 16	2 5.43	+ 6 0.1	1.929	0.947	8.8	19.6	8 E	—	2*
4 21	2 25.77	+ 8 3.0	1.906	0.924	9.2	19.5	8 E	—	2*
4 26	2 46.76	+10 5.0	1.884	0.903	9.8	19.5	9 E	—	3*
5 1	3 8.42	+12 4.9	1.865	0.885	10.5	19.5	9 E	—	3*
5 6	3 30.78	+14 0.9	1.848	0.870	11.3	19.4	10 E	—	4*
5 11	3 53.83	+15 51.4	1.833	0.859	12.2	19.4	10 E	—	4*
5 16	4 17.53	+17 34.3	1.820	0.851	13.3	19.4	11 E	—	5*
5 21	4 41.83	+19 7.9	1.811	0.848	14.4	19.4	12 E	1*	5*
5 26	5 6.66	+20 30.3	1.804	0.848	15.6	19.5	13 E	2*	6*
5 31	5 31.89	+21 39.9	1.799	0.852	16.8	19.5	14 E	3*	6*
6 5	5 57.41	+22 35.4	1.798	0.861	17.9	19.6	15 E	4*	7*
6 10	6 23.05	+23 15.8	1.800	0.873	19.0	19.6	16 E	4*	8*
6 15	6 48.65	+23 40.6	1.805	0.888	19.9	19.7	17 E	5*	9*
6 20	7 14.03	+23 49.7	1.813	0.907	20.6	19.8	18 E	6*	10*
6 25	7 39.01	+23 43.5	1.824	0.928	21.2	19.9	19 E	7*	11*
6 30	8 3.46	+23 22.9	1.839	0.952	21.6	20.0	20 E	7*	11*
7 5	8 27.26	+22 49.0	1.856	0.977	21.9	20.1	21 E	8*	12*
7 10	8 50.32	+22 3.1	1.876	1.004	22.0	20.1	22 E	8*	13*
7 15	9 12.57	+21 6.7	1.899	1.033	21.9	20.2	22 E	8*	13*
7 20	9 33.99	+20 1.3	1.925	1.062	21.7	20.3	23 E	8*	14*
7 25	9 54.55	+18 48.5	1.952	1.092	21.3	20.4	23 E	9*	14*
7 30	10 14.28	+17 29.8	1.982	1.123	20.9	20.5	23 E	9*	15*
8 4	10 33.22	+16 6.4	2.014	1.154	20.3	20.5	23 E	9*	15*
8 9	10 51.40	+14 39.5	2.048	1.185	19.7	20.6	23 E	9*	15*
8 14	11 8.87	+13 10.3	2.082	1.216	19.0	20.7	23 E	9*	15*
8 19	11 25.68	+11 39.7	2.118	1.247	18.3	20.8	23 E	9*	15*
8 24	11 41.88	+10 8.5	2.155	1.278	17.5	20.8	22 E	9*	14*
8 29	11 57.54	+ 8 37.4	2.192	1.308	16.6	20.9	22 E	9*	14*
9 3	12 12.70	+ 7 6.8	2.229	1.338	15.7	20.9	21 E	8*	13*
9 8	12 27.42	+ 5 37.4	2.267	1.368	14.8	21.0	20 E	8*	12*
9 13	12 41.74	+ 4 9.5	2.305	1.397	13.9	21.0	19 E	8*	11*
9 18	12 55.69	+ 2 43.5	2.342	1.425	12.9	21.1	19 E	8*	10*
9 23	13 9.32	+ 1 19.7	2.378	1.453	12.0	21.1	17 E	7*	9*
9 28	13 22.68	− 0 1.7	2.414	1.480	11.0	21.2	16 E	7*	8*
10 3	13 35.78	− 1 20.6	2.449	1.506	10.0	21.2	15 E	6*	6*
10 8	13 48.66	− 2 36.8	2.482	1.532	9.1	21.2	14 E	6*	5*
10 13	14 1.35	− 3 50.1	2.514	1.557	8.2	21.2	13 E	5*	3*
10 18	14 13.87	− 5 0.3	2.544	1.581	7.3	21.3	12 E	5*	2*
10 23	14 26.22	− 6 7.5	2.573	1.604	6.4	21.3	10 E	4*	—
10 28	14 38.45	− 7 11.6	2.599	1.627	5.7	21.3	9 E	3*	—
11 2	14 50.56	− 8 12.4	2.624	1.649	5.1	21.3	8 E	2*	—
11 7	15 2.56	− 9 10.0	2.646	1.670	4.6	21.3	8 E	1*	—
11 12	15 14.47	−10 4.3	2.666	1.690	4.5	21.4	8 E	—	—
11 17	15 26.28	−10 55.2	2.683	1.710	4.6	21.4	8 W	—	—
11 22	15 38.01	−11 42.7	2.698	1.729	5.0	21.5	9 W	2*	—
85372 1996 EO_{12}									
12 27	20 19.78	−18 12.9	2.684	1.869	14.1	19.8	28 E	15*	16*
1 6	20 43.71	−16 26.6	2.703	1.843	12.2	19.7	23 E	13*	11*
1 16	21 7.76	−14 27.2	2.716	1.817	10.3	19.6	19 E	11*	7*
1 26	21 31.87	−12 15.3	2.722	1.793	8.5	19.5	16 E	8*	3*
2 5	21 56.02	− 9 52.1	2.724	1.770	6.6	19.4	12 E	5*	—
2 15	22 20.21	− 7 18.8	2.720	1.749	4.8	19.3	8 E	2*	—
2 25	22 44.45	− 4 37.1	2.713	1.730	3.1	19.2	5 E	—	—
3 7	23 8.77	− 1 48.7	2.702	1.713	2.1	19.1	4 W	—	—
3 17	23 33.23	+ 1 4.5	2.688	1.698	2.4	19.1	4 W	—	—
3 27	23 57.89	+ 4 0.1	2.672	1.685	3.8	19.1	6 W	—	—
4 6	0 22.83	+ 6 56.0	2.655	1.674	5.4	19.2	9 W	1*	2*
4 16	0 48.11	+ 9 49.6	2.635	1.666	7.1	19.2	12 W	2*	5*
4 26	1 13.79	+12 38.5	2.615	1.660	8.8	19.3	15 W	3*	7*
5 6	1 39.93	+15 20.0	2.593	1.658	10.4	19.3	17 W	5*	10*
5 16	2 6.58	+17 51.6	2.571	1.658	12.0	19.4	20 W	6*	12*
5 26	2 33.71	+20 10.9	2.547	1.660	13.6	19.4	23 W	8*	14*
6 5	3 1.32	+22 15.4	2.523	1.665	15.2	19.5	25 W	11*	16*
6 15	3 29.32	+24 3.2	2.497	1.673	16.7	19.5	28 W	13*	18*
6 25	3 57.59	+25 32.6	2.468	1.683	18.2	19.5	31 W	16*	19*
7 5	4 25.97	+26 42.6	2.438	1.696	19.7	19.6	34 W	20*	20*
7 15	4 54.26	+27 32.4	2.405	1.711	21.1	19.6	37 W	24*	21*
7 25	5 22.22	+28 2.1	2.368	1.728	22.5	19.6	41 W	28*	22*
8 4	5 49.63	+28 12.4	2.328	1.747	23.8	19.7	44 W	32*	23*
8 14	6 16.25	+28 4.5	2.283	1.768	25.1	19.7	48 W	37*	24*
8 24	6 41.84	+27 40.0	2.234	1.791	26.3	19.7	52 W	41*	25*
9 3	7 6.23	+27 1.1	2.179	1.815	27.4	19.7	56 W	46*	26*
9 13	7 29.23	+26 10.1	2.119	1.840	28.3	19.7	60 W	50*	27*

85372 1996 EO_{12} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 23	7 50.68	+25 9.6	2.053	1.866	29.2	19.7	65 W	55*	29*
10 3	8 10.44	+24 2.4	1.982	1.894	29.8	19.7	70 W	59*	31*
10 13	8 28.34	+22 51.1	1.906	1.922	30.2	19.6	76 W	63*	33*
10 23	8 44.20	+21 38.5	1.825	1.950	30.3	19.6	82 W	65*	36*
11 2	8 57.82	+20 27.6	1.741	1.980	30.1	19.5	88 W	65*	39*
11 12	9 8.93	+19 21.1	1.654	2.009	29.4	19.4	96 W	64	42*
11 22	9 17.21	+18 21.8	1.568	2.039	28.1	19.3	104 W	63	45*
12 2	9 22.32	+17 32.2	1.484	2.069	26.2	19.1	112 W	63	46*
12 12	9 23.87	+16 54.7	1.405	2.099	23.5	19.0	122 W	62	47
12 22	9 21.63	+16 30.4	1.337	2.128	20.0	18.8	132 W	62	47
1 1	9 15.58	+16 19.3	1.284	2.158	15.6	18.6	144 W	61	48
1 11	9 6.14	+16 19.3	1.251	2.187	10.4	18.3	156 W	61	48
1 21	8 54.33	+16 26.5	1.242	2.216	4.8	18.1	169 W	61	48

87309 2000 *QP*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 19.83	− 3 0.9	1.627	0.991	34.4	20.1	35 E	27*	10*
1 6	20 48.00	− 0 5.2	1.567	0.918	35.9	19.9	33 E	27*	5*
1 16	21 18.49	+ 3 1.1	1.482	0.834	38.9	19.6	32 E	26*	2*
1 26	21 52.34	+ 6 9.4	1.372	0.743	44.1	19.3	32 E	26*	—
1 31	22 10.93	+ 7 38.1	1.306	0.694	47.8	19.2	31 E	25*	—
2 5	22 30.89	+ 8 56.7	1.234	0.646	52.6	19.0	31 E	25*	—
2 10	22 52.37	+ 9 56.9	1.155	0.597	58.7	18.9	31 E	25*	—
2 15	23 15.37	+10 25.9	1.070	0.552	66.4	18.8	31 E	25*	2*
2 17	23 24.95	+10 24.8	1.034	0.535	70.0	18.8	31 E	25*	2*
2 19	23 34.69	+10 14.2	0.997	0.519	73.9	18.8	30 E	24*	3*
2 21	23 44.53	+ 9 52.6	0.960	0.504	78.2	18.8	30 E	24*	4*
2 23	23 54.41	+ 9 18.0	0.923	0.491	82.8	18.8	29 E	23*	5*
2 25	0 4.21	+ 8 28.8	0.886	0.479	87.6	18.8	29 E	23*	7*
2 27	0 13.81	+ 7 23.3	0.850	0.469	92.7	18.9	28 E	22*	8*
3 1	0 23.08	+ 6 0.0	0.814	0.462	98.0	19.0	28 E	20*	9*
3 3	0 31.85	+ 4 18.0	0.781	0.457	103.3	19.2	27 E	19*	11*
3 5	0 39.97	+ 2 17.2	0.749	0.455	108.5	19.3	26 E	17*	12*
3 7	0 47.28	− 0 1.6	0.720	0.455	113.3	19.6	25 E	15*	13*
3 9	0 53.66	− 2 36.7	0.694	0.458	117.6	19.8	24 E	12*	15*
3 11	0 58.99	− 5 25.0	0.671	0.464	121.0	20.0	24 E	9*	16*
3 13	1 3.22	− 8 22.8	0.652	0.472	123.5	20.2	23 E	6*	17*
3 15	1 6.33	−11 25.5	0.637	0.482	124.8	20.3	23 E	3*	17*
3 17	1 8.33	−14 28.4	0.626	0.494	124.9	20.3	24 E	—	18*
3 19	1 9.28	−17 27.0	0.618	0.508	124.0	20.2	25 E	—	18*
3 21	1 9.29	−20 17.3	0.613	0.523	122.3	20.1	26 E	—	18*
3 23	1 8.44	−22 56.4	0.611	0.539	119.9	20.0	28 E	—	17*
3 25	1 6.88	−25 22.1	0.611	0.557	117.2	19.9	30 E	—	17*
3 27	1 4.73	−27 33.2	0.613	0.575	114.2	19.8	32 E	—	16*
3 29	1 2.12	−29 29.2	0.616	0.593	111.2	19.7	34 E	—	15*
3 31	0 59.18	−31 10.4	0.620	0.612	108.3	19.6	36 E	—	14*
4 2	0 56.03	−32 37.3	0.625	0.632	105.4	19.5	38 E	—	12*
4 4	0 52.75	−33 50.9	0.630	0.651	102.6	19.4	39 E	—	11*
4 6	0 49.44	−34 52.4	0.635	0.671	100.1	19.4	41 W	—	14*
4 8	0 46.15	−35 42.9	0.640	0.690	97.6	19.3	43 W	—	16*
4 10	0 42.95	−36 23.6	0.644	0.709	95.4	19.3	45 W	—	19*
4 12	0 39.86	−36 55.5	0.648	0.729	93.3	19.3	47 W	—	21*
4 14	0 36.92	−37 19.9	0.651	0.748	91.3	19.3	48 W	—	24*
4 16	0 34.14	−37 37.5	0.654	0.767	89.5	19.3	50 W	—	26*
4 18	0 31.53	−37 49.4	0.656	0.785	87.8	19.3	51 W	—	28*
4 20	0 29.10	−37 56.1	0.658	0.804	86.3	19.2	53 W	—	30*
4 22	0 26.83	−37 58.5	0.658	0.822	84.8	19.2	54 W	—	32*
4 24	0 24.72	−37 57.0	0.658	0.839	83.5	19.2	56 W	—	35*
4 26	0 22.77	−37 52.2	0.657	0.856	82.2	19.2	57 W	—	37*
5 1	0 18.49	−37 28.4	0.650	0.898	79.4	19.2	61 W	—	42*
5 6	0 14.87	−36 52.1	0.639	0.937	77.0	19.2	65 W	—	47*
5 11	0 11.67	−36 7.2	0.623	0.974	74.8	19.1	69 W	—	52*
5 16	0 8.58	−35 16.1	0.602	1.009	72.9	19.1	72 W	—	57*
5 21	0 5.34	−34 20.6	0.578	1.041	71.0	19.0	76 W	—	62*
5 26	0 1.63	−33 21.2	0.549	1.070	69.0	18.9	81 W	—	68*
5 31	23 57.13	−32 18.2	0.518	1.097	67.0	18.7	85 W	—	74*
6 5	23 51.43	−31 11.0	0.484	1.122	64.8	18.6	90 W	1*	79*
6 10	23 44.01	−29 58.5	0.447	1.144	62.2	18.4	95 W	5*	85*
6 15	23 34.19	−28 38.0	0.410	1.164	59.1	18.1	101 W	9*	87
6 20	23 21.15	−27 4.7	0.372	1.181	55.2	17.8	107 W	13*	89
6 25	23 3.87	−25 11.4	0.334	1.196	50.4	17.5	115 W	18*	89
6 27	22 55.51	−24 18.1	0.320	1.202	48.1	17.3	118 W	19*	88
6 29	22 46.20	−23 19.0	0.306	1.207	45.6	17.2	122 W	21*	87
7 1	22 35.85	−22 13.0	0.293	1.212	42.8	17.0	126 W	23*	86
7 3	22 24.41	−20 59.2	0.280	1.216	39.8	16.8	130 W	24	85
7 5	22 11.82	−19 36.6	0.268	1.220	36.5	16.7	134 W	25	84
7 10	21 35.40	−15 26.2	0.245	1.228	27.1	16.2	147 W	30	79
7 15	20 53.17	−10 14.9	0.231	1.234	17.6	15.8	159 W	35	74
7 20	20 8.73	− 4 30.9	0.230	1.238	13.4	15.6	164 W	40	69
7 25	19 26.74	+ 0 55.3	0.241	1.240	19.5	16.0	156 E	46	63

87309 2000 *QP* *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 27	19 11.49	+ 2 50.8	0.249	1.240	23.0	16.1	151 E	48	61
7 29	18 57.34	+ 4 35.4	0.258	1.240	26.6	16.3	147 E	50	59
7 31	18 44.34	+ 6 8.8	0.269	1.239	30.1	16.5	142 E	51	58
8 2	18 32.53	+ 7 31.0	0.281	1.238	33.3	16.7	138 E	53	56
8 4	18 21.86	+ 8 42.8	0.294	1.237	36.3	16.9	134 E	54	55
8 6	18 12.29	+ 9 45.0	0.308	1.235	39.0	17.1	130 E	55	54
8 8	18 3.75	+10 38.6	0.322	1.233	41.5	17.2	126 E	56	53
8 10	17 56.17	+11 24.7	0.337	1.230	43.7	17.4	123 E	56	53
8 12	17 49.47	+12 4.3	0.353	1.227	45.8	17.5	120 E	57	52
8 14	17 43.56	+12 38.3	0.368	1.224	47.6	17.7	117 E	58	51
8 16	17 38.37	+13 7.4	0.384	1.221	49.3	17.8	114 E	58	51
8 18	17 33.83	+13 32.5	0.401	1.217	50.8	17.9	111 E	59	50
8 20	17 29.88	+13 54.1	0.417	1.212	52.2	18.0	109 E	59	50
8 22	17 26.44	+14 12.8	0.433	1.208	53.4	18.1	106 E	59*	50
8 24	17 23.47	+14 28.9	0.449	1.203	54.6	18.3	104 E	59*	50
8 29	17 17.78	+15 0.6	0.489	1.189	57.1	18.5	99 E	60*	49
9 3	17 14.13	+15 23.3	0.527	1.172	59.1	18.7	94 E	59*	49
9 8	17 12.05	+15 40.1	0.563	1.154	60.9	18.8	90 E	59*	48*
9 13	17 11.19	+15 53.5	0.596	1.133	62.4	19.0	86 E	58*	47*
9 18	17 11.24	+16 5.0	0.627	1.109	63.8	19.1	82 E	57*	46*
9 23	17 11.96	+16 15.6	0.653	1.083	65.2	19.2	79 E	57*	44*
9 28	17 13.13	+16 25.9	0.676	1.055	66.6	19.2	75 E	56*	42*
10 3	17 14.58	+16 35.9	0.694	1.024	68.2	19.3	72 E	55*	39*
10 8	17 16.14	+16 45.7	0.707	0.991	69.8	19.3	69 E	54*	36*
10 13	17 17.60	+16 55.0	0.714	0.955	71.8	19.3	65 E	53*	33*
10 18	17 18.74	+17 3.0	0.717	0.917	74.0	19.3	62 E	51*	29*
10 23	17 19.28	+17 7.6	0.713	0.877	76.7	19.3	59 E	50*	25*
10 28	17 18.91	+17 6.0	0.703	0.834	80.1	19.2	56 E	48*	21*
11 2	17 17.23	+16 53.5	0.688	0.789	84.2	19.2	52 E	45*	16*
11 7	17 13.75	+16 22.7	0.666	0.742	89.3	19.2	48 E	42*	11*
11 12	17 7.84	+15 21.9	0.640	0.694	95.7	19.3	44 E	38*	5*
11 14	17 4.65	+14 45.5	0.629	0.674	98.7	19.3	42 E	36*	3*
11 16	17 0.92	+13 59.9	0.617	0.655	102.0	19.4	40 E	34*	—
11 18	16 56.64	+13 3.6	0.605	0.635	105.6	19.4	38 E	32*	—
11 20	16 51.78	+11 54.7	0.594	0.616	109.5	19.6	36 E	29*	—
11 22	16 46.35	+10 31.3	0.583	0.597	113.6	19.7	34 E	26*	—
11 24	16 40.38	+ 8 51.6	0.574	0.578	118.0	19.9	31 E	22*	—
11 26	16 33.95	+ 6 54.1	0.566	0.560	122.5	20.1	29 E	19*	—
11 28	16 27.17	+ 4 37.7	0.560	0.543	127.0	20.4	26 E	15*	—
11 30	16 20.21	+ 2 2.5	0.557	0.526	131.2	20.8	24 W	12*	—
12 2	16 13.28	− 0 50.3	0.557	0.511	134.8	21.1	22 W	13*	—
12 4	16 6.65	− 3 58.1	0.562	0.497	137.2	21.3	20 W	13*	—
12 6	16 0.59	− 7 16.9	0.571	0.484	137.9	21.4	19 W	13*	—
12 8	15 55.39	−10 41.6	0.585	0.474	136.8	21.3	19 W	13*	2*
12 10	15 51.31	−14 6.6	0.604	0.465	133.7	20.9	20 W	12*	6*
12 12	15 48.58	−17 26.7	0.628	0.459	129.1	20.5	21 W	11*	10*
12 14	15 47.35	−20 37.4	0.656	0.456	123.5	20.1	23 W	10*	13*
12 16	15 47.70	−23 35.3	0.689	0.455	117.3	19.7	24 W	9*	16*
12 18	15 49.64	−26 18.3	0.724	0.457	110.8	19.4	26 W	7*	18*
12 20	15 53.11	−28 45.2	0.762	0.461	104.4	19.2	27 W	6*	20*
12 22	15 57.98	−30 55.8	0.802	0.468	98.1	19.0	28 W	4*	22*
12 24	16 4.11	−32 50.4	0.843	0.477	92.1	18.9	29 W	3*	23*
12 26	16 11.32	−34 29.7	0.884	0.488	86.5	18.8	30 W	2*	24*
12 28	16 19.43	−35 54.6	0.925	0.501	81.3	18.8	30 W	—	24*
12 30	16 28.26	−37 6.3	0.966	0.516	76.5	18.8	31 W	—	25*
1 1	16 37.64	−38 5.9	1.006	0.531	72.2	18.8	31 W	—	25*
1 3	16 47.41	−38 54.3	1.045	0.548	68.2	18.8	31 W	—	25*
1 5	16 57.45	−39 32.8	1.082	0.566	64.6	18.8	31 W	—	25*
1 7	17 7.64	−40 2.3	1.119	0.584	61.4	18.9	31 W	—	25*
1 9	17 17.89	−40 23.6	1.154	0.603	58.4	18.9	31 W	—	25*
1 11	17 28.11	−40 37.7	1.188	0.622	55.8	19.0	32 W	—	25*
1 13	17 38.24	−40 45.3	1.221	0.642	53.4	19.0	32 W	—	25*
1 15	17 48.23	−40 47.2	1.252	0.661	51.2	19.1	32 W	—	25*
1 17	17 58.05	−40 44.0	1.281	0.681	49.3	19.1	32 W	—	25*
1 19	18 7.67	−40 36.1	1.310	0.700	47.6	19.2	32 W	—	25*
1 21	18 17.07	−40 24.3	1.336	0.720	46.0	19.3	32 W	—	24*

363548 2003 WA_{13}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 19.90	−24 2.8	2.508	1.687	15.1	21.4	27 E	10*	18*
1 6	20 48.66	−22 15.6	2.533	1.676	13.4	21.3	23 E	9*	15*
1 16	21 17.04	−20 10.7	2.556	1.667	11.7	21.3	20 E	8*	12*
1 26	21 44.92	−17 50.1	2.578	1.662	10.0	21.2	17 E	6*	9*
2 5	22 12.24	−15 16.5	2.599	1.659	8.3	21.1	14 E	4*	6*
2 15	22 38.99	−12 32.6	2.619	1.660	6.5	21.1	11 E	2*	4*
2 25	23 5.18	− 9 41.2	2.638	1.664	4.8	21.0	8 E	—	1*
3 7	23 30.85	− 6 45.1	2.656	1.670	3.2	21.0	5 E	—	—
3 17	23 56.07	− 3 47.1	2.672	1.680	2.0	20.9	3 E	—	—
3 27	0 20.91	− 0 49.8	2.688	1.693	2.0	20.9	3 W	—	—
4 6	0 45.42	+ 2 4.5	2.701	1.708	3.2	21.0	6 W	—	—
4 16	1 9.68	+ 4 53.6	2.712	1.725	4.8	21.2	8 W	—	2*
4 26	1 33.73	+ 7 35.5	2.721	1.746	6.5	21.3	11 W	—	5*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
363548 2003 WA_{13} *(continuation)*									
	h m	° ′			°	m	°	°	°
5 6	1 57.61	+10 8.7	2.726	1.768	8.3	21.4	15 W	—	9*
5 16	2 21.36	+12 31.7	2.727	1.792	10.0	21.5	18 W	—	12*
418198 2008 CN_{70}									
12 27	20 20.27	−22 18.3	1.392	0.680	40.8	20.5	27 E	11*	18*
1 1	20 51.80	−22 22.2	1.396	0.718	41.7	20.6	29 E	12*	20*
1 6	21 21.97	−22 6.2	1.405	0.756	42.0	20.8	31 E	13*	22*
1 11	21 50.71	−21 32.2	1.417	0.794	42.0	20.9	33 E	14*	24*
1 16	22 18.00	−20 42.6	1.433	0.831	41.8	21.0	34 E	15*	25*
1 21	22 43.84	−19 40.0	1.451	0.866	41.3	21.1	36 E	16*	26*
1 26	23 8.28	−18 26.8	1.472	0.900	40.7	21.2	37 E	17*	27*
1 31	23 31.43	−17 5.1	1.495	0.933	40.1	21.3	38 E	17*	28*
2 5	23 53.38	−15 37.1	1.520	0.963	39.3	21.4	38 E	18*	29*
2 10	0 14.26	−14 4.3	1.545	0.991	38.5	21.5	39 E	19*	29*
141526 2002 FA_6									
12 27	20 22.25	−17 6.0	1.367	0.687	43.1	21.4	28 E	16*	16*
1 1	20 51.20	−17 53.7	1.338	0.688	45.2	21.4	30 E	16*	18*
1 6	21 20.29	−18 32.0	1.312	0.695	47.2	21.5	31 E	16*	20*
1 11	21 49.38	−18 59.1	1.289	0.706	49.1	21.5	33 E	16*	22*
1 16	22 18.32	−19 13.6	1.267	0.721	50.7	21.6	35 E	16*	25*
237709 2001 UN_{161}									
12 27	20 22.29	−16 51.6	2.452	1.656	16.5	20.8	29 E	16*	16*
1 6	20 50.32	−15 11.2	2.487	1.652	14.8	20.8	25 E	15*	12*
1 16	21 18.04	−13 15.9	2.520	1.651	13.0	20.8	22 E	13*	9*
1 26	21 45.37	−11 7.7	2.552	1.652	11.2	20.7	19 E	11*	6*
2 5	22 12.27	− 8 49.2	2.583	1.656	9.4	20.7	16 E	9*	3*
2 15	22 38.72	− 6 22.8	2.612	1.663	7.5	20.6	13 E	6*	1*
2 25	23 4.74	− 3 51.1	2.640	1.672	5.7	20.6	10 E	3*	—
3 7	23 30.37	− 1 16.7	2.666	1.684	3.9	20.5	7 E	1*	—
3 17	23 55.65	+ 1 17.9	2.690	1.699	2.1	20.4	4 E	—	—
3 27	0 20.62	+ 3 50.5	2.712	1.715	0.9	20.4	1 W	—	—
4 6	0 45.34	+ 6 18.7	2.731	1.734	2.0	20.5	3 W	—	—
4 16	1 9.86	+ 8 40.8	2.747	1.754	3.8	20.7	7 W	—	—
4 26	1 34.20	+10 54.9	2.759	1.776	5.6	20.8	10 W	—	4*
5 6	1 58.39	+12 59.6	2.766	1.800	7.4	20.9	13 W	—	7*
5 16	2 22.42	+14 53.6	2.769	1.825	9.3	21.0	17 W	2*	10*
5 26	2 46.28	+16 35.8	2.766	1.852	11.0	21.1	21 W	4*	14*
6 5	3 9.93	+18 5.4	2.757	1.879	12.8	21.2	24 W	6*	17*
6 15	3 33.32	+19 22.0	2.742	1.907	14.5	21.3	28 W	9*	20*
6 25	3 56.36	+20 25.1	2.719	1.936	16.2	21.4	32 W	13*	22*
7 5	4 18.98	+21 14.8	2.689	1.965	17.9	21.4	36 W	17*	25*
7 15	4 41.06	+21 51.3	2.652	1.995	19.4	21.5	41 W	22*	27*
198856 2005 LR_3									
12 27	20 22.51	−35 6.1	2.842	2.031	13.3	21.5	28 E	—	22*
1 6	20 46.70	−33 54.7	2.856	2.004	11.8	21.4	25 E	—	19*
1 16	21 11.04	−32 30.7	2.859	1.974	10.4	21.3	21 E	—	15*
1 26	21 35.43	−30 54.4	2.850	1.942	9.3	21.2	19 E	—	12*
2 5	21 59.81	−29 6.2	2.832	1.909	8.6	21.2	17 E	—	9*
2 15	22 24.17	−27 6.3	2.803	1.873	8.4	21.1	16 E	—	7*
2 25	22 48.50	−24 55.6	2.766	1.836	8.6	21.0	16 E	—	5*
3 7	23 12.82	−22 34.6	2.721	1.797	9.4	21.0	17 E	—	3*
3 17	23 37.19	−20 4.0	2.669	1.757	10.5	20.9	19 W	—	4*
3 27	0 1.66	−17 24.5	2.612	1.714	11.8	20.9	21 W	—	7*
4 6	0 26.31	−14 36.9	2.550	1.671	13.3	20.8	23 W	—	10*
4 16	0 51.25	−11 42.1	2.485	1.626	14.8	20.8	24 W	—	13*
4 26	1 16.59	− 8 41.0	2.418	1.580	16.4	20.7	26 W	—	16*
5 6	1 42.45	− 5 34.5	2.350	1.533	17.9	20.6	28 W	—	19*
5 16	2 8.99	− 2 24.0	2.281	1.485	19.5	20.5	29 W	—	22*
5 26	2 36.36	+ 0 49.2	2.212	1.438	21.1	20.4	31 W	—	24*
6 5	3 4.75	+ 4 3.4	2.146	1.390	22.6	20.4	32 W	—	26*
6 15	3 34.37	+ 7 16.4	2.082	1.344	24.1	20.3	33 W	1*	27*
6 25	4 5.41	+10 25.5	2.021	1.299	25.5	20.2	33 W	4*	27*
7 5	4 38.12	+13 27.3	1.963	1.257	26.9	20.1	34 W	9*	27*
7 10	4 55.16	+14 54.1	1.937	1.236	27.6	20.0	34 W	11*	26*
7 15	5 12.69	+16 17.4	1.911	1.217	28.2	20.0	34 W	13*	26*
7 20	5 30.71	+17 36.5	1.887	1.199	28.8	19.9	35 W	15*	25*
7 25	5 49.25	+18 50.6	1.864	1.182	29.4	19.9	35 W	17*	24*
7 30	6 8.32	+19 59.0	1.843	1.166	29.9	19.9	35 W	19*	23*
8 4	6 27.89	+21 0.8	1.823	1.152	30.4	19.8	35 W	21*	22*
8 9	6 47.96	+21 55.2	1.805	1.139	30.9	19.8	35 W	23*	20*
8 14	7 8.48	+22 41.3	1.789	1.128	31.3	19.8	35 W	24*	19*
8 19	7 29.40	+23 18.4	1.775	1.118	31.7	19.7	36 W	26*	18*
8 24	7 50.65	+23 45.8	1.762	1.111	32.1	19.7	36 W	27*	16*
8 29	8 12.15	+24 2.9	1.752	1.105	32.4	19.7	36 W	28*	15*
9 3	8 33.83	+24 9.5	1.744	1.101	32.6	19.7	36 W	29*	14*
9 8	8 55.55	+24 5.2	1.738	1.100	32.8	19.7	36 W	29*	12*
9 13	9 17.22	+23 50.3	1.733	1.100	32.9	19.7	36 W	30*	11*
9 18	9 38.73	+23 24.9	1.731	1.103	33.0	19.7	37 W	30*	10*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
198856 2005 LR_3 *(continuation)*									
	h m	° ′			°	m	°	°	°
9 23	9 59.98	+22 49.7	1.730	1.107	33.0	19.7	37 W	31*	9*
9 28	10 20.89	+22 5.4	1.732	1.113	33.0	19.7	37 W	31*	8*
10 3	10 41.37	+21 12.8	1.734	1.122	33.0	19.7	38 W	32*	7*
10 8	11 1.37	+20 13.0	1.739	1.132	32.9	19.8	38 W	32*	7*
10 13	11 20.84	+19 7.1	1.744	1.144	32.8	19.8	38 W	32*	6*
10 18	11 39.74	+17 56.4	1.751	1.157	32.7	19.8	39 W	33*	6*
10 23	11 58.07	+16 41.7	1.758	1.172	32.5	19.8	39 W	33*	6*
10 28	12 15.83	+15 24.4	1.766	1.188	32.4	19.9	40 W	34*	6*
11 2	12 33.01	+14 5.3	1.774	1.206	32.3	19.9	40 W	34*	6*
11 7	12 49.64	+12 45.4	1.782	1.225	32.2	20.0	41 W	35*	7*
11 12	13 5.72	+11 25.7	1.790	1.244	32.1	20.0	42 W	36*	8*
11 22	13 36.33	+ 8 49.2	1.804	1.286	32.0	20.1	44 W	37*	10*
12 2	14 5.04	+ 6 20.4	1.814	1.330	32.1	20.2	46 W	39*	13*
12 12	14 31.98	+ 4 2.7	1.819	1.376	32.3	20.3	48 W	40*	17*
12 22	14 57.27	+ 1 58.0	1.815	1.423	32.6	20.3	51 W	40*	22*
1 1	15 21.01	+ 0 7.1	1.804	1.471	33.0	20.4	55 W	40*	28*
1 11	15 43.20	− 1 29.7	1.783	1.518	33.5	20.5	58 W	40*	34*
1 21	16 3.83	− 2 53.0	1.751	1.565	33.9	20.5	63 W	40*	40*
206921 2004 PU_{100}									
12 27	20 22.80	−17 53.0	2.453	1.655	16.4	20.6	28 E	15*	17*
1 6	20 51.00	−16 18.1	2.482	1.646	14.7	20.6	25 E	14*	13*
1 16	21 19.01	−14 27.2	2.510	1.639	12.9	20.5	22 E	12*	10*
1 26	21 46.71	−12 22.3	2.537	1.635	11.2	20.5	19 E	11*	7*
2 5	22 14.04	−10 5.8	2.562	1.635	9.4	20.4	16 E	8*	4*
2 15	22 40.99	− 7 40.2	2.586	1.637	7.6	20.4	13 E	6*	2*
2 25	23 7.55	− 5 8.3	2.609	1.642	5.8	20.3	10 E	3*	—
3 7	23 33.76	− 2 32.8	2.632	1.650	4.0	20.3	7 E	—	—
3 17	23 59.66	+ 0 3.7	2.652	1.661	2.2	20.2	4 E	—	—
3 27	0 25.28	+ 2 38.6	2.671	1.674	0.4	20.0	1 E	—	—
4 6	0 50.68	+ 5 9.5	2.689	1.689	1.5	20.2	2 W	—	—
4 16	1 15.90	+ 7 34.3	2.703	1.707	3.3	20.3	6 W	—	—
4 26	1 40.97	+ 9 51.1	2.715	1.728	5.1	20.5	9 W	—	3*
5 6	2 5.90	+11 58.0	2.724	1.750	6.9	20.6	12 W	—	6*
5 16	2 30.70	+13 53.8	2.728	1.773	8.7	20.7	15 W	—	9*
5 26	2 55.34	+15 37.2	2.728	1.799	10.4	20.8	19 W	1*	12*
6 5	3 19.79	+17 7.2	2.723	1.825	12.2	20.9	22 W	4*	15*
6 15	3 43.98	+18 23.5	2.713	1.853	13.9	21.0	26 W	7*	18*
6 25	4 7.83	+19 25.5	2.696	1.882	15.5	21.1	30 W	10*	21*
7 5	4 31.25	+20 13.4	2.672	1.912	17.2	21.1	34 W	15*	24*
7 15	4 54.14	+20 47.4	2.642	1.942	18.7	21.2	38 W	19*	26*
7 25	5 16.36	+21 8.0	2.604	1.973	20.2	21.3	42 W	25*	28*
8 4	5 37.80	+21 16.2	2.558	2.004	21.6	21.3	47 W	30*	30*
8 14	5 58.32	+21 12.9	2.504	2.035	22.9	21.3	52 W	36*	31*
8 24	6 17.77	+20 59.5	2.442	2.067	24.1	21.3	57 W	41*	33*
9 3	6 36.02	+20 37.5	2.373	2.098	25.1	21.3	62 W	47*	35*
9 13	6 52.90	+20 8.5	2.296	2.130	25.9	21.3	68 W	52*	37*
9 23	7 8.22	+19 34.3	2.213	2.161	26.5	21.3	74 W	57*	39*
10 3	7 21.79	+18 57.1	2.124	2.192	26.8	21.2	80 W	61*	41*
10 13	7 33.36	+18 18.9	2.031	2.222	26.7	21.2	87 W	63*	43*
10 23	7 42.66	+17 42.2	1.935	2.252	26.1	21.1	95 W	63	45*
11 2	7 49.39	+17 9.3	1.838	2.282	25.0	21.0	103 W	62	47*
11 12	7 53.21	+16 42.8	1.745	2.311	23.3	20.8	112 W	62	47
11 22	7 53.82	+16 24.8	1.659	2.340	20.9	20.7	122 W	61	48
12 2	7 51.03	+16 17.0	1.583	2.367	17.8	20.5	133 W	61	48
12 12	7 44.86	+16 20.3	1.524	2.395	13.8	20.3	144 W	61	48
12 22	7 35.76	+16 33.7	1.487	2.421	9.3	20.1	157 W	62	47
12 27	7 30.36	+16 43.6	1.477	2.434	6.9	20.0	163 W	62	47
1 1	7 24.60	+16 55.2	1.475	2.447	4.5	19.9	169 W	62	47
1 6	7 18.64	+17 7.9	1.479	2.459	2.4	19.8	174 W	62	47
1 11	7 12.68	+17 21.4	1.491	2.472	2.3	19.8	174 E	62	47
1 16	7 6.91	+17 35.3	1.511	2.484	4.2	20.0	169 E	63	46
1 21	7 1.49	+17 49.3	1.537	2.496	6.5	20.1	163 E	63	46
354365 2003 LX_2									
12 27	20 23.16	−17 14.9	2.240	1.455	18.9	20.9	29 E	16*	16*
1 1	20 39.78	−16 27.3	2.273	1.473	18.0	21.0	28 E	16*	15*
1 6	20 56.03	−15 35.3	2.307	1.493	17.1	21.0	26 E	15*	14*
1 11	21 11.89	−14 39.3	2.342	1.513	16.1	21.0	25 E	15*	12*
1 16	21 27.36	−13 39.9	2.378	1.534	15.2	21.0	24 E	14*	11*
1 21	21 42.45	−12 37.6	2.415	1.555	14.2	21.1	23 E	14*	10*
1 26	21 57.15	−11 33.1	2.452	1.577	13.2	21.1	21 E	13*	9*
1 31	22 11.49	−10 26.7	2.490	1.600	12.2	21.1	20 E	12*	8*
2 5	22 25.46	− 9 19.0	2.528	1.624	11.2	21.2	19 E	11*	6*
2 10	22 39.09	− 8 10.3	2.565	1.648	10.1	21.2	17 E	9*	5*
2 15	22 52.40	− 7 1.1	2.603	1.672	9.1	21.2	16 E	8*	4*
2 20	23 5.40	− 5 51.6	2.640	1.697	8.0	21.2	14 E	7*	3*
2 25	23 18.10	− 4 42.2	2.676	1.722	7.0	21.2	12 E	5*	2*
3 2	23 30.52	− 3 33.3	2.712	1.747	5.9	21.2	11 E	4*	1*
3 7	23 42.68	− 2 25.0	2.747	1.772	4.9	21.3	9 E	2*	—
3 12	23 54.59	− 1 17.6	2.780	1.798	3.8	21.3	7 E	—	—

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			354365 2003 LX_2				*(continuation)*		
	h m	° ′			°	m	°	°	°
3 17	0 6.28	− 0 11.2	2.813	1.824	2.8	21.2	5 E	—	—
3 22	0 17.75	+ 0 53.8	2.844	1.850	1.8	21.2	3 E	—	—
3 27	0 29.01	+ 1 57.4	2.873	1.876	0.9	21.2	2 E	—	—
4 1	0 40.07	+ 2 59.4	2.900	1.901	0.8	21.2	1 W	—	—
4 6	0 50.96	+ 3 59.8	2.926	1.927	1.6	21.4	3 W	—	—
4 11	1 1.67	+ 4 58.2	2.949	1.953	2.6	21.5	5 W	—	—
			210482 1996 RW_1						
12 27	20 23.40	−21 46.0	2.405	1.600	16.6	20.6	28 E	12*	18*
1 6	20 53.01	−19 34.9	2.443	1.603	14.9	20.6	25 E	12*	15*
1 16	21 21.83	−17 7.7	2.482	1.610	13.1	20.6	22 E	11*	11*
1 26	21 49.80	−14 27.6	2.521	1.620	11.3	20.6	19 E	9*	8*
2 5	22 16.93	−11 37.8	2.559	1.633	9.5	20.5	16 E	8*	6*
2 15	22 43.26	− 8 41.3	2.598	1.649	7.6	20.5	13 E	5*	3*
2 25	23 8.85	− 5 41.2	2.636	1.669	5.7	20.5	10 E	3*	1*
3 7	23 33.80	− 2 40.1	2.672	1.690	3.9	20.4	7 E	—	—
3 17	23 58.18	+ 0 19.6	2.707	1.715	2.0	20.4	3 E	—	—
3 27	0 22.09	+ 3 15.7	2.738	1.741	0.5	20.3	1 W	—	—
4 6	0 45.60	+ 6 6.2	2.767	1.769	1.9	20.5	3 W	—	—
4 16	1 8.79	+ 8 49.7	2.792	1.799	3.8	20.7	7 W	—	1*
4 26	1 31.69	+11 24.7	2.811	1.831	5.7	20.8	10 W	—	4*
5 6	1 54.36	+13 50.2	2.826	1.863	7.6	21.0	14 W	1*	8*
5 16	2 16.83	+16 5.2	2.834	1.897	9.4	21.1	18 W	3*	11*
5 26	2 39.07	+18 9.2	2.835	1.932	11.2	21.2	22 W	6*	14*
6 5	3 1.08	+20 1.6	2.829	1.967	13.0	21.3	26 W	9*	17*
6 15	3 22.82	+21 42.4	2.816	2.003	14.7	21.4	30 W	13*	20*
6 25	3 44.21	+23 11.4	2.794	2.039	16.4	21.5	34 W	17*	23*
			20429 1998 YN_1						
12 27	20 23.85	−23 26.9	2.269	1.469	18.0	21.2	28 E	11*	19*
1 1	20 39.57	−22 33.9	2.321	1.503	16.8	21.2	26 E	10*	17*
1 6	20 54.66	−21 37.4	2.372	1.535	15.6	21.3	25 E	10*	16*
1 11	21 9.16	−20 38.0	2.422	1.567	14.3	21.3	23 E	10*	14*
1 16	21 23.11	−19 36.3	2.472	1.599	13.1	21.3	22 E	9*	13*
1 21	21 36.56	−18 32.9	2.520	1.630	11.9	21.4	20 E	8*	11*
1 26	21 49.54	−17 28.0	2.567	1.660	10.6	21.4	18 E	7*	10*
1 31	22 2.07	−16 22.2	2.612	1.689	9.4	21.4	16 E	6*	8*
2 5	22 14.21	−15 15.6	2.655	1.718	8.2	21.5	14 E	4*	7*
2 10	22 25.99	−14 8.5	2.695	1.745	7.1	21.5	13 E	3*	5*
2 15	22 37.43	−13 1.3	2.734	1.773	5.9	21.5	11 E	1*	4*
2 20	22 48.55	−11 54.1	2.770	1.799	4.8	21.5	9 E	—	2*
2 25	22 59.39	−10 47.1	2.804	1.825	3.7	21.5	7 E	—	1*
3 2	23 9.96	− 9 40.5	2.834	1.850	2.8	21.5	5 E	—	—
3 7	23 20.29	− 8 34.3	2.862	1.874	2.2	21.5	4 E	—	—
			74823 1999 TD_{15}						
12 27	20 23.87	− 1 58.0	3.333	2.604	12.9	20.3	36 E	29*	10*
1 6	20 40.48	− 1 27.5	3.370	2.576	11.3	20.3	31 E	25*	4*
1 16	20 57.50	− 0 46.6	3.395	2.547	9.7	20.2	26 E	20*	—
1 26	21 14.85	+ 0 4.2	3.408	2.517	8.2	20.1	21 E	15*	—
2 5	21 32.45	+ 1 4.1	3.408	2.487	6.9	20.1	18 E	9*	—
2 15	21 50.28	+ 2 12.3	3.396	2.456	6.0	20.0	15 W	5*	—
2 25	22 8.30	+ 3 27.9	3.372	2.424	5.7	19.9	14 W	7*	—
3 7	22 26.49	+ 4 49.8	3.337	2.392	6.1	19.9	15 W	9*	—
3 17	22 44.85	+ 6 17.0	3.291	2.359	7.2	19.9	17 W	10*	4*
3 27	23 3.37	+ 7 48.4	3.233	2.325	8.6	19.9	21 W	12*	9*
4 6	23 22.09	+ 9 22.8	3.167	2.292	10.3	19.9	24 W	13*	14*
4 16	23 41.02	+10 58.9	3.090	2.258	12.2	19.8	28 W	15*	18*
4 26	0 0.18	+12 35.4	3.006	2.223	14.1	19.8	32 W	16*	23*
5 6	0 19.63	+14 10.9	2.913	2.189	16.0	19.8	37 W	18*	26*
5 16	0 39.38	+15 43.9	2.813	2.154	17.9	19.7	41 W	20*	30*
5 26	0 59.47	+17 12.7	2.708	2.120	19.8	19.7	45 W	23*	33*
6 5	1 19.92	+18 35.7	2.596	2.085	21.7	19.6	49 W	26*	35*
6 15	1 40.77	+19 51.0	2.480	2.051	23.6	19.5	54 W	29*	37*
6 25	2 1.98	+20 56.5	2.360	2.017	25.3	19.5	58 W	33*	38*
7 5	2 23.57	+21 50.1	2.238	1.984	27.0	19.3	62 W	38*	39*
7 15	2 45.46	+22 29.3	2.112	1.951	28.6	19.2	67 W	43*	40*
7 25	3 7.57	+22 51.6	1.986	1.919	30.1	19.1	71 W	48*	40*
7 30	3 18.67	+22 55.6	1.923	1.903	30.8	19.0	74 W	51*	40*
8 4	3 29.77	+22 54.3	1.859	1.888	31.4	19.0	76 W	53*	41*
8 9	3 40.85	+22 47.4	1.796	1.873	32.0	18.9	78 W	55*	41*
8 14	3 51.87	+22 34.4	1.733	1.858	32.5	18.8	81 W	58*	41*
8 19	4 2.81	+22 15.1	1.671	1.843	33.0	18.7	83 W	60*	42*
8 24	4 13.63	+21 49.0	1.609	1.829	33.4	18.6	85 W	61*	42*
8 29	4 24.29	+21 15.8	1.548	1.816	33.8	18.6	88 W	62*	43*
9 3	4 34.76	+20 35.1	1.488	1.802	34.0	18.5	90 W	63*	43
9 8	4 44.97	+19 46.5	1.429	1.790	34.2	18.4	93 W	64*	44
9 13	4 54.89	+18 49.7	1.371	1.777	34.3	18.3	96 W	63*	45
9 18	5 4.45	+17 44.3	1.314	1.765	34.3	18.1	98 W	63*	46
9 23	5 13.61	+16 30.0	1.260	1.754	34.2	18.0	101 W	61	48

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			74823 1999 TD_{15}				*(continuation)*		
	h m	° ′			°	m	°	°	°
10 3	5 30.48	+13 34.0	1.156	1.733	33.6	17.8	107 W	59	50
10 13	5 44.96	+10 0.9	1.061	1.714	32.5	17.6	113 W	55	54
10 23	5 56.53	+ 5 52.4	0.977	1.698	30.9	17.3	119 W	51	58
10 28	6 1.06	+ 3 36.4	0.940	1.691	29.9	17.2	122 W	49	60
11 2	6 4.68	+ 1 14.2	0.907	1.685	28.9	17.1	125 W	46	63
11 7	6 7.31	− 1 12.7	0.877	1.679	27.8	17.0	128 W	44	65
11 12	6 8.93	− 3 42.0	0.852	1.674	26.7	16.9	131 W	41	68
11 17	6 9.54	− 6 11.1	0.830	1.670	25.6	16.8	133 W	39	70
11 22	6 9.15	− 8 37.2	0.813	1.667	24.7	16.7	135 W	36	73
11 27	6 7.80	−10 57.0	0.801	1.664	23.9	16.6	137 W	34	75
12 2	6 5.57	−13 7.4	0.792	1.663	23.3	16.6	138 W	32	77
12 7	6 2.59	−15 5.0	0.788	1.662	23.0	16.6	139 W	30	79
12 12	5 59.05	−16 47.0	0.789	1.661	23.0	16.6	139 W	28	81
12 17	5 55.17	−18 11.6	0.793	1.662	23.2	16.6	138 W	27	82
12 22	5 51.18	−19 17.4	0.801	1.663	23.7	16.6	137 E	26	83
12 27	5 47.30	−20 4.0	0.813	1.665	24.3	16.7	136 E	25	84
1 1	5 43.75	−20 31.6	0.828	1.668	25.1	16.8	134 E	24	85
1 6	5 40.75	−20 41.1	0.846	1.672	25.9	16.8	132 E	24	85
1 11	5 38.48	−20 33.8	0.867	1.676	26.8	16.9	130 E	24	85
1 16	5 37.05	−20 12.0	0.891	1.682	27.6	17.0	128 E	25	84
1 21	5 36.53	−19 37.4	0.917	1.688	28.5	17.1	125 E	25	84
			210705 2000 SY_{155}						
12 27	20 24.44	−23 51.9	2.932	2.111	12.5	21.1	28 E	10*	19*
1 6	20 46.43	−22 28.4	2.949	2.078	10.6	21.0	23 E	8*	14*
1 16	21 8.66	−20 53.3	2.957	2.045	8.6	20.9	18 E	6*	10*
1 26	21 31.04	−19 6.9	2.956	2.013	6.6	20.8	14 E	3*	6*
2 5	21 53.51	−17 9.8	2.946	1.980	4.7	20.6	9 E	—	3*
2 15	22 16.07	−15 2.8	2.929	1.949	3.0	20.5	6 E	—	—
2 25	22 38.68	−12 46.6	2.904	1.918	2.0	20.4	4 E	—	—
3 7	23 1.37	−10 22.5	2.873	1.888	2.8	20.4	5 W	—	—
3 17	23 24.17	− 7 51.6	2.837	1.858	4.5	20.4	8 W	—	2*
3 27	23 47.11	− 5 15.2	2.795	1.830	6.4	20.4	12 W	—	5*
4 6	0 10.25	− 2 34.8	2.750	1.803	8.3	20.5	15 W	—	9*
4 16	0 33.66	+ 0 8.0	2.702	1.778	10.3	20.5	18 W	—	12*
4 26	0 57.40	+ 2 51.4	2.651	1.755	12.2	20.5	22 W	—	16*
5 6	1 21.52	+ 5 33.6	2.598	1.733	14.0	20.5	25 W	1*	19*
5 16	1 46.12	+ 8 12.6	2.545	1.714	15.9	20.5	28 W	3*	21*
5 26	2 11.21	+10 46.3	2.490	1.697	17.6	20.5	30 W	5*	24*
6 5	2 36.86	+13 12.5	2.435	1.682	19.4	20.4	33 W	8*	26*
6 15	3 3.08	+15 29.2	2.380	1.670	21.0	20.4	36 W	12*	28*
6 25	3 29.83	+17 34.2	2.324	1.661	22.6	20.4	39 W	16*	29*
7 5	3 57.09	+19 25.5	2.269	1.655	24.1	20.4	42 W	20*	30*
7 15	4 24.74	+21 1.5	2.213	1.652	25.6	20.4	45 W	25*	30*
7 25	4 52.64	+22 21.0	2.157	1.651	27.0	20.4	48 W	30*	30*
8 4	5 20.62	+23 23.1	2.101	1.654	28.3	20.4	51 W	34*	30*
8 14	5 48.47	+24 7.7	2.043	1.660	29.5	20.3	54 W	39*	30*
8 24	6 15.94	+24 35.4	1.984	1.668	30.6	20.3	57 W	44*	30*
9 3	6 42.79	+24 47.4	1.924	1.680	31.6	20.3	61 W	48*	31*
9 13	7 8.77	+24 45.4	1.861	1.694	32.4	20.3	65 W	53*	31*
9 23	7 33.63	+24 32.1	1.796	1.710	33.1	20.2	69 W	57*	32*
10 3	7 57.14	+24 10.4	1.729	1.729	33.6	20.2	73 W	61*	33*
10 13	8 19.07	+23 43.7	1.659	1.750	33.9	20.1	78 W	64*	34*
10 23	8 39.17	+23 15.8	1.587	1.773	33.9	20.1	83 W	67*	35*
11 2	8 57.21	+22 50.7	1.514	1.798	33.5	20.0	89 W	68*	37*
11 12	9 12.87	+22 32.7	1.439	1.825	32.7	19.9	96 W	68	39*
11 22	9 25.79	+22 25.9	1.364	1.853	31.3	19.8	103 W	67	40*
12 2	9 35.59	+22 34.2	1.292	1.882	29.4	19.6	111 W	68	41*
12 12	9 41.78	+23 0.5	1.225	1.912	26.7	19.5	119 W	68	41
12 22	9 43.96	+23 45.9	1.166	1.943	23.1	19.3	129 W	69	40
1 1	9 41.83	+24 48.2	1.119	1.974	18.8	19.1	140 W	70	39
1 6	9 39.14	+25 23.9	1.102	1.990	16.4	19.0	145 W	70	39
1 11	9 35.46	+26 1.0	1.090	2.006	13.9	18.9	151 W	71	38
1 16	9 30.90	+26 38.1	1.083	2.022	11.3	18.8	156 W	72	37
1 21	9 25.62	+27 13.6	1.081	2.039	8.8	18.7	162 W	72	37
			326386 2001 OA_{14}						
12 27	20 24.48	−11 37.4	1.842	1.121	26.9	21.3	31 E	21*	14*
1 6	20 51.90	− 8 5.7	1.799	1.051	26.9	21.1	29 E	21*	10*
1 16	21 20.73	− 4 11.3	1.738	0.978	27.7	20.9	28 E	21*	6*
1 26	21 51.60	+ 0 6.3	1.661	0.902	29.7	20.7	27 E	21*	2*
2 5	22 25.38	+ 4 44.5	1.568	0.825	33.1	20.4	27 E	21*	—
2 10	22 43.74	+ 7 9.2	1.516	0.788	35.5	20.3	28 E	22*	—
2 15	23 3.34	+ 9 35.3	1.461	0.753	38.4	20.2	28 E	22*	—
2 20	23 24.38	+12 0.0	1.402	0.720	41.8	20.2	29 E	23*	—
2 25	23 47.07	+14 19.2	1.340	0.691	45.7	20.1	30 E	24*	—
3 2	0 11.60	+16 27.6	1.277	0.666	50.1	20.0	31 E	25*	1*
3 7	0 38.11	+18 18.4	1.213	0.647	54.8	20.0	32 E	26*	3*
3 12	1 6.60	+19 44.1	1.149	0.635	59.7	20.0	33 E	27*	5*
3 17	1 36.89	+20 36.5	1.086	0.630	64.6	20.0	35 E	29*	8*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
326386 2001 OA_{14} *(continuation)*									
	h m	° ′			°	m	°	°	°
3 22	2 8.58	+20 48.7	1.027	0.633	69.1	20.0	36 E	30*	11*
3 27	2 41.08	+20 16.2	0.974	0.644	73.0	20.0	38 E	31*	15*
4 1	3 13.71	+18 57.9	0.926	0.661	76.0	20.1	40 E	31*	19*
4 6	3 45.83	+16 57.0	0.887	0.685	77.9	20.1	42 E	31*	24*
4 11	4 16.93	+14 20.0	0.855	0.713	78.8	20.2	44 E	30*	28*
4 16	4 46.70	+11 15.7	0.832	0.745	78.8	20.2	47 E	28*	33*
4 21	5 15.00	+ 7 53.5	0.817	0.780	78.0	20.2	49 E	26*	38*
4 26	5 41.85	+ 4 22.6	0.809	0.817	76.5	20.3	52 E	23*	42*
5 1	6 7.37	+ 0 50.6	0.807	0.855	74.6	20.3	55 E	21*	46*
5 6	6 31.74	− 2 36.4	0.811	0.893	72.4	20.3	58 E	18*	50*
5 11	6 55.13	− 5 54.2	0.820	0.931	70.1	20.4	60 E	15*	53*
5 16	7 17.73	− 9 0.4	0.833	0.969	67.8	20.4	63 E	12*	56*
5 21	7 39.67	−11 53.5	0.850	1.006	65.4	20.5	65 E	9*	59*
5 26	8 1.07	−14 33.2	0.870	1.043	63.2	20.5	67 E	6*	61*
5 31	8 22.04	−16 59.3	0.893	1.079	61.0	20.6	69 E	4*	62*
6 5	8 42.67	−19 12.2	0.918	1.113	59.0	20.7	70 E	1*	63*
6 10	9 3.01	−21 12.8	0.946	1.146	57.1	20.7	71 E	—	64*
6 15	9 23.10	−23 1.8	0.975	1.179	55.3	20.8	73 E	—	65*
6 20	9 42.96	−24 40.1	1.007	1.209	53.6	20.9	73 E	—	65*
6 25	10 2.58	−26 8.3	1.040	1.239	52.1	21.0	74 E	—	65*
6 30	10 21.99	−27 27.2	1.075	1.267	50.6	21.1	75 E	—	64*
7 5	10 41.17	−28 37.6	1.112	1.294	49.3	21.1	75 E	—	64*
7 10	11 0.13	−29 40.1	1.151	1.319	48.0	21.2	75 E	—	63*
7 15	11 18.87	−30 35.4	1.191	1.344	46.8	21.3	75 E	—	63*
7 20	11 37.36	−31 24.2	1.232	1.366	45.7	21.4	74 E	—	62*
7 25	11 55.59	−32 6.8	1.274	1.388	44.6	21.4	74 E	—	61*
469727 2005 NK_1									
12 27	20 24.56	−42 3.8	0.626	0.555	112.8	19.2	31 E	—	25*
12 29	20 16.12	−40 13.0	0.601	0.530	120.6	19.6	28 E	—	21*
12 31	20 6.19	−38 1.2	0.579	0.508	129.5	20.2	23 E	—	17*
1 2	19 54.94	−35 26.0	0.560	0.488	139.4	21.2	19 E	—	12*
1 4	19 42.70	−32 26.4	0.547	0.470	150.3	22.7	14 E	—	7*
175816 1999 RZ_{230}									
12 27	20 24.96	−23 39.1	2.504	1.697	15.7	20.9	28 E	11*	19*
1 6	20 53.31	−21 57.2	2.524	1.678	14.0	20.8	24 E	10*	16*
1 16	21 21.51	−19 57.3	2.541	1.662	12.4	20.8	21 E	8*	12*
1 26	21 49.42	−17 41.1	2.556	1.649	10.7	20.7	18 E	7*	10*
2 5	22 16.97	−15 11.0	2.571	1.639	9.0	20.6	15 E	5*	7*
2 15	22 44.14	−12 29.3	2.584	1.632	7.4	20.6	12 E	3*	5*
2 25	23 10.90	− 9 39.0	2.597	1.629	5.8	20.5	10 E	—	3*
3 7	23 37.30	− 6 43.0	2.609	1.629	4.2	20.4	7 E	—	1*
3 17	0 3.38	− 3 44.0	2.622	1.632	2.9	20.4	5 E	—	—
3 27	0 29.18	− 0 45.1	2.634	1.639	2.2	20.3	4 E	—	—
4 6	0 54.78	+ 2 11.1	2.645	1.649	2.6	20.4	4 W	—	—
4 16	1 20.22	+ 5 2.1	2.656	1.662	3.8	20.5	6 W	—	—
4 26	1 45.55	+ 7 45.6	2.665	1.678	5.3	20.6	9 W	—	3*
5 6	2 10.80	+10 19.5	2.673	1.697	6.9	20.7	12 W	—	6*
5 16	2 35.98	+12 42.2	2.678	1.718	8.5	20.8	15 W	—	9*
5 26	3 1.09	+14 52.2	2.680	1.742	10.2	20.9	18 W	—	12*
6 5	3 26.08	+16 48.5	2.678	1.768	11.8	21.0	21 W	3*	14*
6 15	3 50.93	+18 30.4	2.672	1.796	13.5	21.1	24 W	6*	17*
6 25	4 15.53	+19 57.3	2.661	1.826	15.1	21.2	28 W	9*	19*
7 5	4 39.81	+21 9.5	2.645	1.857	16.7	21.2	32 W	14*	21*
7 15	5 3.65	+22 7.3	2.622	1.889	18.2	21.3	35 W	19*	23*
7 25	5 26.92	+22 51.2	2.592	1.922	19.7	21.4	40 W	24*	25*
8 4	5 49.51	+23 22.5	2.555	1.956	21.1	21.4	44 W	29*	26*
8 14	6 11.27	+23 42.5	2.511	1.991	22.4	21.5	49 W	35*	28*
8 24	6 32.05	+23 52.7	2.458	2.026	23.6	21.5	53 W	41*	29*
16588 Johngee									
12 27	20 25.54	−25 8.4	3.046	2.224	11.9	20.1	28 E	9*	20*
1 6	20 46.39	−23 41.4	3.052	2.179	10.0	20.0	23 E	7*	15*
1 16	21 7.62	−22 3.4	3.049	2.134	8.1	19.8	18 E	5*	10*
1 26	21 29.12	−20 14.4	3.035	2.089	6.2	19.7	13 E	2*	6*
2 5	21 50.86	−18 14.6	3.012	2.045	4.3	19.5	9 E	—	3*
2 15	22 12.81	−16 4.4	2.981	2.001	2.8	19.4	6 E	—	—
2 25	22 34.95	−13 44.2	2.942	1.957	2.3	19.3	5 E	—	—
3 7	22 57.29	−11 14.9	2.897	1.915	3.4	19.3	7 W	—	—
3 17	23 19.87	− 8 37.3	2.847	1.874	5.2	19.3	10 W	—	3*
3 27	23 42.73	− 5 52.5	2.792	1.834	7.1	19.3	13 W	—	7*
4 6	0 5.93	− 3 1.9	2.734	1.796	9.0	19.3	16 W	—	10*
4 16	0 29.55	− 0 6.7	2.674	1.759	10.9	19.2	19 W	—	13*
4 26	0 53.67	+ 2 51.0	2.613	1.725	12.8	19.2	22 W	—	16*
5 6	1 18.38	+ 5 49.5	2.551	1.694	14.7	19.2	25 W	2*	19*
5 16	1 43.77	+ 8 46.4	2.491	1.666	16.5	19.2	28 W	4*	22*
5 26	2 9.91	+11 39.1	2.431	1.641	18.2	19.1	30 W	6*	24*
6 5	2 36.86	+14 25.0	2.374	1.619	19.9	19.1	33 W	9*	25*
6 15	3 4.67	+17 1.1	2.319	1.602	21.5	19.1	35 W	13*	26*
6 25	3 33.31	+19 24.3	2.266	1.588	23.0	19.1	38 W	16*	27*
7 5	4 2.72	+21 31.9	2.216	1.579	24.5	19.1	40 W	20*	27*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
16588 Johngee *(continuation)*									
	h m	° ′			°	m	°	°	°
7 15	4 32.79	+23 21.3	2.168	1.575	25.8	19.0	42 W	25*	27*
7 25	5 3.30	+24 50.5	2.122	1.575	27.1	19.0	45 W	29*	27*
8 4	5 34.02	+25 58.1	2.077	1.579	28.2	19.0	47 W	34*	27*
8 14	6 4.61	+26 43.9	2.034	1.589	29.3	19.0	50 W	38*	26*
8 24	6 34.75	+27 8.4	1.990	1.602	30.3	19.0	53 W	42*	26*
9 3	7 4.12	+27 13.4	1.946	1.620	31.2	19.0	56 W	46*	26*
9 13	7 32.39	+27 1.4	1.900	1.642	32.0	19.0	60 W	50*	26*
9 23	7 59.27	+26 35.6	1.852	1.667	32.6	19.0	63 W	54*	27*
10 3	8 24.56	+25 59.8	1.802	1.695	33.1	19.0	68 W	58*	28*
10 13	8 48.03	+25 18.0	1.748	1.727	33.4	19.0	72 W	62*	29*
10 23	9 9.50	+24 34.5	1.691	1.761	33.4	19.0	77 W	65*	31*
11 2	9 28.79	+23 53.4	1.631	1.797	33.2	18.9	83 W	68*	33*
11 12	9 45.68	+23 19.1	1.568	1.835	32.6	18.9	89 W	68*	35*
11 22	9 59.90	+22 55.4	1.503	1.875	31.6	18.8	95 W	68	37*
12 2	10 11.16	+22 46.0	1.439	1.917	30.1	18.7	103 W	68	40*
12 12	10 19.07	+22 53.9	1.376	1.959	28.0	18.6	111 W	68	41*
12 22	10 23.26	+23 20.2	1.318	2.003	25.1	18.5	120 W	68	41
1 1	10 23.40	+24 4.3	1.269	2.047	21.5	18.3	130 W	69	40
1 6	10 21.89	+24 31.8	1.250	2.069	19.5	18.2	135 W	70	39
1 11	10 19.35	+25 1.8	1.234	2.091	17.3	18.2	141 W	70	39
1 16	10 15.85	+25 33.2	1.223	2.113	15.0	18.1	146 W	71	38
1 21	10 11.48	+26 4.5	1.217	2.136	12.6	18.0	152 W	71	38
18882 1999 YN_4									
12 27	20 25.60	− 2 34.0	2.734	2.024	16.6	20.6	36 E	29*	11*
1 6	20 43.88	− 0 34.3	2.801	2.036	14.9	20.6	32 E	26*	5*
1 16	21 2.20	+ 1 32.7	2.857	2.047	13.2	20.6	28 E	22*	—
1 26	21 20.54	+ 3 47.0	2.901	2.056	11.8	20.6	25 E	18*	—
2 5	21 38.89	+ 6 8.5	2.934	2.063	10.8	20.6	23 E	14*	—
2 15	21 57.30	+ 8 36.8	2.956	2.068	10.0	20.6	21 E	10*	—
2 25	22 15.77	+11 11.7	2.968	2.073	9.8	20.6	21 W	11*	—
3 7	22 34.34	+13 52.3	2.969	2.075	9.9	20.6	21 W	14*	—
3 17	22 53.08	+16 38.2	2.961	2.076	10.5	20.6	22 W	16*	—
3 27	23 12.03	+19 28.6	2.944	2.075	11.4	20.6	24 W	18*	2*
4 6	23 31.28	+22 22.4	2.919	2.073	12.5	20.7	27 W	20*	6*
4 16	23 50.90	+25 18.8	2.886	2.069	13.7	20.7	29 W	23*	9*
4 26	0 10.99	+28 16.5	2.846	2.064	15.0	20.7	32 W	25*	11*
5 6	0 31.66	+31 14.2	2.799	2.057	16.4	20.7	35 W	27*	13*
5 16	0 53.05	+34 10.7	2.747	2.048	17.7	20.7	38 W	30*	15*
5 26	1 15.27	+37 4.2	2.689	2.038	19.1	20.7	41 W	32*	15*
6 5	1 38.47	+39 53.0	2.626	2.026	20.4	20.6	44 W	35*	16*
6 15	2 2.79	+42 35.2	2.559	2.013	21.8	20.6	47 W	39*	15*
6 25	2 28.34	+45 8.5	2.487	1.998	23.1	20.6	50 W	42*	14*
7 5	2 55.24	+47 30.9	2.411	1.982	24.3	20.5	53 W	46*	13*
7 15	3 23.52	+49 40.1	2.331	1.965	25.6	20.5	57 W	50*	12*
7 20	3 38.17	+50 39.0	2.289	1.955	26.2	20.4	58 W	52*	11*
7 25	3 53.13	+51 33.6	2.246	1.945	26.8	20.4	60 W	54*	10*
7 30	4 8.39	+52 23.9	2.203	1.935	27.4	20.4	61 W	55*	10*
8 4	4 23.92	+53 9.6	2.158	1.925	28.0	20.3	63 W	57*	9*
8 9	4 39.67	+53 50.4	2.112	1.914	28.6	20.3	65 W	59*	8*
8 14	4 55.59	+54 26.3	2.065	1.903	29.2	20.2	66 W	60*	8*
8 19	5 11.60	+54 57.2	2.017	1.891	29.8	20.2	68 W	62*	7*
8 24	5 27.66	+55 22.9	1.968	1.880	30.4	20.2	70 W	63*	7*
8 29	5 43.69	+55 43.5	1.918	1.867	30.9	20.1	72 W	64*	6*
9 3	5 59.60	+55 59.2	1.866	1.855	31.5	20.0	74 W	66*	6*
9 8	6 15.30	+56 10.1	1.814	1.842	32.0	20.0	76 W	67*	6*
9 13	6 30.71	+56 16.3	1.761	1.829	32.5	19.9	78 W	69*	6*
9 18	6 45.73	+56 18.1	1.706	1.816	33.0	19.8	80 W	70*	6*
9 23	7 0.30	+56 15.9	1.651	1.802	33.4	19.8	82 W	71*	6*
9 28	7 14.32	+56 9.9	1.594	1.788	33.8	19.7	84 W	73*	6*
10 3	7 27.72	+56 0.6	1.537	1.774	34.2	19.6	86 W	74*	6*
10 8	7 40.39	+55 48.4	1.479	1.760	34.6	19.5	88 W	76*	6*
10 13	7 52.27	+55 33.6	1.420	1.745	34.9	19.4	91 W	77*	7*
10 18	8 3.26	+55 16.7	1.360	1.731	35.1	19.3	93 W	79*	7*
10 23	8 13.29	+54 57.8	1.299	1.716	35.2	19.2	96 W	80*	8*
10 28	8 22.26	+54 37.5	1.238	1.701	35.3	19.1	99 W	80	8*
11 2	8 30.05	+54 15.9	1.177	1.685	35.2	18.9	102 W	81	9*
11 7	8 36.52	+53 53.1	1.116	1.670	35.0	18.8	105 W	81	9*
11 12	8 41.51	+53 28.9	1.054	1.654	34.7	18.6	108 W	82	10*
11 17	8 44.86	+53 3.0	0.993	1.639	34.1	18.5	112 W	82	11*
11 22	8 46.36	+52 34.4	0.933	1.623	33.4	18.3	115 W	82	11*
11 27	8 45.78	+52 2.1	0.873	1.607	32.3	18.1	119 W	83	12
12 2	8 42.83	+51 23.9	0.815	1.591	31.0	17.9	124 W	84	13
12 7	8 37.26	+50 36.7	0.759	1.575	29.2	17.7	129 W	84	13
12 12	8 28.85	+49 36.0	0.705	1.560	27.0	17.4	134 W	85	14
12 17	8 17.52	+48 15.8	0.655	1.544	24.2	17.2	140 W	87	16
12 22	8 3.37	+46 28.9	0.610	1.528	21.0	16.9	146 W	89	18
12 24	7 57.00	+45 36.9	0.593	1.522	19.5	16.8	149 W	89	18
12 26	7 50.27	+44 39.0	0.577	1.516	18.0	16.6	152 W	90	19
12 28	7 43.24	+43 34.6	0.562	1.510	16.4	16.5	154 W	89	20

18882 1999 YN_4 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 30	7 35.96	+42 23.4	0.548	1.504	14.8	16.4	157 W	87	22
1 1	7 28.50	+41 5.1	0.536	1.498	13.1	16.3	160 W	86	23
1 3	7 20.93	+39 39.8	0.525	1.492	11.6	16.2	162 W	85	24
1 5	7 13.32	+38 7.3	0.515	1.486	10.3	16.1	164 W	83	26
1 7	7 5.75	+36 28.1	0.506	1.480	9.3	16.0	166 E	81	28
1 9	6 58.30	+34 42.5	0.499	1.474	8.9	15.9	167 E	80	29
1 11	6 51.02	+32 51.3	0.494	1.468	9.2	15.9	166 E	78	31
1 13	6 43.99	+30 55.2	0.490	1.462	10.1	15.9	165 E	76	33
1 15	6 37.25	+28 55.4	0.487	1.456	11.6	16.0	163 E	74	35
1 17	6 30.85	+26 52.8	0.486	1.450	13.4	16.0	160 E	72	37
1 19	6 24.81	+24 48.6	0.487	1.445	15.4	16.1	157 E	70	39
1 21	6 19.17	+22 44.1	0.489	1.439	17.6	16.2	154 E	68	41

206918 2004 PT_{89}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 25.83	−19 19.3	2.464	1.670	16.4	21.2	29 E	14*	18*
1 6	20 53.99	−17 43.5	2.497	1.663	14.7	21.1	25 E	13*	14*
1 16	21 21.87	−15 51.8	2.528	1.659	12.9	21.1	22 E	12*	11*
1 26	21 49.36	−13 46.2	2.558	1.658	11.1	21.0	19 E	10*	8*
2 5	22 16.40	−11 29.1	2.586	1.659	9.3	21.0	16 E	8*	5*
2 15	22 42.99	− 9 3.1	2.613	1.663	7.5	20.9	13 E	5*	3*
2 25	23 9.13	− 6 30.8	2.638	1.670	5.6	20.9	10 E	2*	1*
3 7	23 34.86	− 3 55.0	2.662	1.680	3.8	20.8	6 E	—	—
3 17	0 0.22	− 1 18.0	2.684	1.691	2.0	20.7	3 E	—	—
3 27	0 25.26	+ 1 17.5	2.703	1.706	0.8	20.6	1 E	—	—
4 6	0 50.03	+ 3 49.5	2.720	1.722	2.0	20.8	3 W	—	—
4 16	1 14.59	+ 6 15.8	2.734	1.740	3.8	20.9	7 W	—	—
4 26	1 38.97	+ 8 34.6	2.744	1.761	5.6	21.1	10 W	—	4*
5 6	2 3.18	+10 44.4	2.750	1.783	7.4	21.2	13 W	—	7*
5 16	2 27.25	+12 43.7	2.752	1.806	9.2	21.3	17 W	—	10*
5 26	2 51.15	+14 31.5	2.749	1.831	10.9	21.4	20 W	1*	14*
6 5	3 14.86	+16 6.9	2.741	1.857	12.7	21.5	24 W	4*	17*

138970 2001 CV_{19}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 25.95	− 5 58.5	2.431	1.710	18.9	20.8	34 E	26*	12*
1 6	20 50.16	− 4 6.0	2.480	1.712	17.2	20.7	31 E	24*	8*
1 16	21 14.28	− 2 4.0	2.523	1.714	15.5	20.7	28 E	22*	3*
1 26	21 38.33	+ 0 6.3	2.560	1.716	13.9	20.7	25 E	19*	—
2 5	22 2.31	+ 2 23.7	2.591	1.717	12.4	20.7	22 E	16*	—
2 15	22 26.29	+ 4 46.7	2.618	1.717	11.0	20.6	19 E	12*	—
2 25	22 50.30	+ 7 13.7	2.639	1.717	9.7	20.6	17 E	9*	—
3 7	23 14.40	+ 9 42.8	2.654	1.716	8.7	20.6	15 E	5*	—
3 17	23 38.67	+12 12.3	2.665	1.715	8.0	20.6	14 W	5*	—
3 27	0 3.18	+14 40.2	2.670	1.713	7.6	20.5	13 W	6*	—
4 6	0 28.01	+17 4.4	2.670	1.711	7.7	20.5	13 W	7*	—
4 16	0 53.23	+19 23.1	2.665	1.709	8.2	20.6	14 W	8*	—
4 26	1 18.91	+21 34.0	2.655	1.705	9.0	20.6	15 W	9*	2*
5 6	1 45.09	+23 35.0	2.639	1.702	10.1	20.6	17 W	10*	5*
5 16	2 11.82	+25 24.2	2.618	1.698	11.4	20.6	19 W	11*	7*
5 26	2 39.08	+26 59.2	2.592	1.693	12.8	20.7	22 W	12*	9*
6 5	3 6.85	+28 18.3	2.560	1.688	14.3	20.7	24 W	14*	11*
6 15	3 35.07	+29 19.6	2.523	1.683	15.9	20.7	27 W	16*	13*
6 25	4 3.60	+30 1.4	2.480	1.677	17.6	20.7	30 W	18*	15*
7 5	4 32.31	+30 22.5	2.431	1.671	19.3	20.7	33 W	21*	16*
7 15	5 1.03	+30 21.7	2.377	1.665	21.0	20.7	36 W	24*	18*
7 25	5 29.54	+29 58.6	2.318	1.659	22.7	20.7	39 W	28*	19*
8 4	5 57.67	+29 12.7	2.253	1.652	24.5	20.7	42 W	32*	21*
8 14	6 25.23	+28 4.3	2.183	1.645	26.2	20.7	46 W	35*	22*
8 24	6 52.04	+26 33.5	2.109	1.638	27.9	20.6	49 W	39*	24*
9 3	7 17.99	+24 41.0	2.029	1.631	29.5	20.6	53 W	42*	26*
9 13	7 42.98	+22 27.5	1.946	1.624	31.1	20.5	56 W	45*	28*
9 23	8 6.92	+19 53.8	1.860	1.617	32.6	20.5	60 W	48*	31*
10 3	8 29.79	+17 0.4	1.771	1.610	34.0	20.4	64 W	51*	34*
10 13	8 51.54	+13 48.1	1.680	1.603	35.3	20.3	68 W	52*	37*
10 23	9 12.14	+10 17.6	1.588	1.596	36.4	20.2	72 W	52*	42*
11 2	9 31.57	+ 6 29.3	1.495	1.590	37.4	20.1	77 W	51*	46*
11 12	9 49.75	+ 2 23.9	1.403	1.584	38.1	20.0	81 W	47*	52*
11 22	10 6.59	− 1 57.9	1.313	1.578	38.6	19.8	85 W	43	58*
12 2	10 21.97	− 6 35.2	1.226	1.572	38.8	19.7	90 W	38	65*
12 12	10 35.62	−11 26.3	1.143	1.567	38.8	19.5	95 W	34	73*
12 22	10 47.26	−16 28.5	1.065	1.563	38.4	19.3	99 W	29	80*
12 27	10 52.20	−19 2.7	1.028	1.560	38.1	19.3	102 W	26	83
1 1	10 56.46	−21 37.9	0.992	1.558	37.7	19.2	104 W	23	86
1 6	10 59.94	−24 13.3	0.959	1.556	37.3	19.1	107 W	21	88
1 11	11 2.58	−26 47.7	0.927	1.555	36.8	19.0	109 W	18	89
1 16	11 4.30	−29 19.7	0.897	1.553	36.2	18.9	111 W	16	87
1 21	11 4.98	−31 48.0	0.869	1.552	35.5	18.8	114 W	13	84

190059 2004 RW_{306}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 26.55	−18 35.1	2.491	1.700	16.3	19.7	29 E	15*	18*
1 6	20 54.55	−17 15.6	2.512	1.680	14.7	19.6	26 E	14*	14*
1 16	21 22.64	−15 38.8	2.531	1.664	13.0	19.6	22 E	12*	11*
1 26	21 50.67	−13 46.5	2.549	1.651	11.3	19.5	19 E	10*	8*

190059 2004 RW_{306} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
2 5	22 18.54	−11 40.8	2.566	1.642	9.6	19.5	16 E	8*	6*
2 15	22 46.19	− 9 24.1	2.583	1.638	8.0	19.4	13 E	5*	4*
2 25	23 13.56	− 6 59.4	2.601	1.637	6.3	19.3	10 E	3*	2*
3 7	23 40.66	− 4 29.6	2.618	1.640	4.7	19.3	8 E	—	1*
3 17	0 7.48	− 1 57.6	2.636	1.648	3.2	19.2	5 E	—	—
3 27	0 34.04	+ 0 33.7	2.654	1.659	2.0	19.2	3 E	—	—
4 6	1 0.35	+ 3 1.5	2.672	1.674	2.0	19.2	3 E	—	—
4 16	1 26.45	+ 5 23.3	2.690	1.693	3.1	19.3	5 W	—	—
4 26	1 52.32	+ 7 36.8	2.706	1.715	4.6	19.4	8 W	—	1*
5 6	2 17.97	+ 9 40.1	2.721	1.740	6.2	19.6	11 W	—	4*
5 16	2 43.37	+11 31.6	2.734	1.768	7.8	19.7	14 W	—	8*
5 26	3 8.48	+13 10.1	2.743	1.798	9.4	19.8	17 W	—	11*
6 5	3 33.26	+14 34.8	2.749	1.831	11.0	19.9	20 W	—	14*
6 15	3 57.62	+15 45.2	2.750	1.865	12.6	20.0	24 W	3*	17*
6 25	4 21.48	+16 41.1	2.746	1.902	14.2	20.1	27 W	6*	20*
7 5	4 44.74	+17 22.8	2.736	1.939	15.8	20.2	31 W	10*	23*
7 15	5 7.31	+17 50.8	2.718	1.979	17.3	20.3	35 W	15*	25*
7 25	5 29.06	+18 5.8	2.694	2.019	18.7	20.3	40 W	20*	28*
8 4	5 49.89	+18 9.1	2.661	2.059	20.1	20.4	44 W	26*	30*
8 14	6 9.68	+18 1.6	2.620	2.101	21.4	20.4	49 W	32*	32*
8 24	6 28.30	+17 45.0	2.571	2.143	22.5	20.5	54 W	37*	34*
9 3	6 45.64	+17 20.9	2.514	2.185	23.5	20.5	60 W	43*	36*
9 13	7 1.55	+16 50.8	2.448	2.227	24.3	20.5	65 W	48*	39*
9 23	7 15.88	+16 16.9	2.375	2.270	24.8	20.5	72 W	53*	41*
10 3	7 28.45	+15 41.0	2.295	2.312	25.1	20.5	78 W	57*	43*
10 13	7 39.04	+15 5.3	2.210	2.354	25.0	20.4	86 W	59*	46*
10 23	7 47.42	+14 32.2	2.122	2.396	24.5	20.4	93 W	60	48*
11 2	7 53.35	+14 4.0	2.033	2.438	23.5	20.3	102 W	59	50*
11 12	7 56.53	+13 43.3	1.946	2.479	21.9	20.2	111 W	59	50
11 22	7 56.77	+13 32.4	1.867	2.519	19.7	20.1	121 W	59	50
12 2	7 53.95	+13 32.9	1.798	2.560	16.8	19.9	131 W	59	50
12 12	7 48.15	+13 45.8	1.746	2.599	13.2	19.8	143 W	59	50
12 22	7 39.82	+14 10.5	1.715	2.638	9.2	19.6	155 W	59	50
1 1	7 29.73	+14 45.0	1.711	2.677	4.9	19.4	166 W	60	49
1 6	7 24.36	+15 4.8	1.719	2.696	3.1	19.3	171 W	60	49
1 11	7 18.97	+15 25.8	1.735	2.714	2.5	19.3	173 E	60	49
1 16	7 13.73	+15 47.5	1.759	2.733	3.6	19.5	170 E	61	48
1 21	7 8.78	+16 9.3	1.790	2.751	5.4	19.6	165 E	61	48

173475 2000 SA_1

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 26.93	−22 59.6	2.803	1.992	13.5	20.1	28 E	11*	19*
1 6	20 48.20	−20 36.1	2.820	1.958	11.5	20.0	23 E	10*	14*
1 16	21 9.50	−18 2.0	2.829	1.923	9.4	19.9	19 E	8*	9*
1 26	21 30.79	−15 17.5	2.829	1.890	7.3	19.8	14 E	6*	5*
2 5	21 52.10	−12 22.8	2.821	1.857	5.2	19.6	10 E	3*	—
2 15	22 13.44	− 9 18.2	2.805	1.825	3.2	19.5	6 E	—	—
2 25	22 34.87	− 6 4.3	2.782	1.795	1.8	19.3	3 E	—	—
3 7	22 56.45	− 2 42.0	2.754	1.766	2.4	19.3	4 W	—	—
3 17	23 18.28	+ 0 47.9	2.721	1.739	4.2	19.4	7 W	1*	—
3 27	23 40.48	+ 4 24.1	2.683	1.714	6.2	19.4	11 W	3*	3*
4 6	0 3.16	+ 8 5.0	2.643	1.690	8.3	19.4	14 W	5*	6*
4 16	0 26.50	+11 48.9	2.602	1.670	10.2	19.4	17 W	7*	8*
4 26	0 50.63	+15 33.3	2.559	1.652	12.1	19.5	20 W	9*	11*
5 6	1 15.76	+19 15.4	2.517	1.636	13.9	19.5	23 W	12*	13*
5 16	1 42.06	+22 52.1	2.475	1.624	15.6	19.5	26 W	14*	14*
5 26	2 9.68	+26 19.6	2.435	1.615	17.2	19.5	28 W	17*	15*
5 31	2 24.04	+27 58.5	2.416	1.612	18.0	19.5	29 W	18*	15*
6 5	2 38.78	+29 33.6	2.398	1.609	18.7	19.5	31 W	19*	15*
6 10	2 53.91	+31 4.2	2.380	1.608	19.4	19.5	32 W	21*	15*
6 15	3 9.42	+32 29.8	2.362	1.607	20.1	19.5	33 W	22*	15*
6 20	3 25.31	+33 49.8	2.345	1.607	20.7	19.5	34 W	24*	15*
6 25	3 41.56	+35 3.6	2.329	1.608	21.3	19.5	35 W	25*	15*
6 30	3 58.14	+36 10.9	2.313	1.610	21.9	19.5	36 W	27*	14*
7 5	4 15.03	+37 11.1	2.297	1.612	22.5	19.5	37 W	28*	14*
7 10	4 32.17	+38 3.8	2.282	1.616	23.1	19.5	39 W	30*	13*
7 15	4 49.51	+38 48.9	2.267	1.620	23.6	19.5	40 W	31*	13*
7 20	5 6.96	+39 26.0	2.252	1.625	24.1	19.5	41 W	33*	13*
7 25	5 24.47	+39 55.0	2.237	1.631	24.6	19.6	42 W	35*	12*
7 30	5 41.97	+40 16.1	2.223	1.637	25.1	19.6	43 W	36*	12*
8 4	5 59.36	+40 29.2	2.208	1.645	25.6	19.6	44 W	38*	12*
8 9	6 16.56	+40 34.7	2.192	1.653	26.1	19.6	46 W	39*	12*
8 14	6 33.51	+40 32.8	2.177	1.662	26.5	19.6	47 W	41*	12*
8 19	6 50.12	+40 23.9	2.161	1.671	27.0	19.6	48 W	42*	12*
8 24	7 6.34	+40 8.6	2.144	1.681	27.4	19.6	50 W	44*	12*
9 3	7 37.41	+39 20.7	2.107	1.703	28.2	19.6	53 W	47*	12*
9 13	8 6.37	+38 13.8	2.067	1.728	29.0	19.6	56 W	50*	13*
9 23	8 33.03	+36 52.7	2.021	1.754	29.8	19.6	60 W	54*	14*
10 3	8 57.31	+35 22.1	1.970	1.782	30.4	19.6	64 W	58*	16*
10 13	9 19.14	+33 46.5	1.913	1.812	30.9	19.6	69 W	63*	18*
10 23	9 38.47	+32 9.7	1.849	1.843	31.3	19.6	74 W	67*	21*

173475 2000 SA_1 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 2	9 55.26	+30 35.1	1.780	1.876	31.4	19.6	80 W	71*	24*
11 12	10 9.36	+29 6.1	1.705	1.909	31.1	19.5	86 W	73*	27*
11 22	10 20.56	+27 45.0	1.626	1.943	30.5	19.4	93 W	73	31*
12 2	10 28.60	+26 33.9	1.546	1.977	29.4	19.3	100 W	72	35*
12 12	10 33.05	+25 34.4	1.465	2.012	27.6	19.2	109 W	71	38*
12 22	10 33.53	+24 46.3	1.389	2.047	25.0	19.0	118 W	70	39
1 1	10 29.67	+24 8.2	1.321	2.083	21.6	18.8	129 W	69	40
1 11	10 21.32	+23 36.5	1.267	2.118	17.3	18.7	140 W	69	40
1 21	10 8.93	+23 5.0	1.232	2.153	12.2	18.5	153 W	68	41

204131 2003 YL

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 27.01	−16 11.3	1.002	0.512	73.1	20.9	30 E	17*	17*
1 1	21 5.15	−13 8.0	0.935	0.571	77.4	21.1	34 E	22*	19*
1 6	21 42.90	− 9 43.7	0.884	0.634	78.8	21.3	39 E	26*	22*
1 11	22 20.27	− 6 4.5	0.850	0.700	78.1	21.4	44 E	31*	24*
1 16	22 57.04	− 2 18.7	0.833	0.765	75.8	21.5	49 E	35*	26*

162038 1996 DH

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 27.02	−15 11.1	1.924	1.182	24.7	19.5	30 E	18*	16*
1 1	20 44.76	−13 20.5	1.941	1.193	24.2	19.6	30 E	19*	15*
1 6	21 2.09	−11 26.2	1.960	1.204	23.7	19.6	29 E	20*	13*
1 11	21 19.04	− 9 29.2	1.979	1.217	23.1	19.6	29 E	20*	12*
1 16	21 35.63	− 7 30.2	2.001	1.231	22.5	19.6	29 E	21*	10*
1 21	21 51.89	− 5 29.9	2.023	1.246	21.9	19.7	28 E	21*	9*
1 26	22 7.84	− 3 29.1	2.047	1.261	21.3	19.7	28 E	21*	8*
2 5	22 38.94	+ 0 31.7	2.098	1.295	20.0	19.8	27 E	20*	5*
2 15	23 9.19	+ 4 27.8	2.153	1.330	18.6	19.8	25 E	19*	3*
2 25	23 38.79	+ 8 15.7	2.211	1.368	17.2	19.9	24 E	18*	1*
3 7	0 7.91	+11 52.2	2.270	1.406	15.7	20.0	23 E	16*	—
3 17	0 36.75	+15 15.1	2.331	1.445	14.2	20.0	21 E	15*	—
3 27	1 5.42	+18 22.5	2.392	1.485	12.6	20.1	19 E	13*	—
4 6	1 34.00	+21 12.8	2.452	1.524	11.1	20.2	17 E	11*	—
4 16	2 2.58	+23 44.9	2.509	1.562	9.6	20.2	15 E	8*	—
4 26	2 31.17	+25 57.8	2.563	1.600	8.3	20.2	13 E	6*	—
5 6	2 59.75	+27 51.1	2.613	1.637	7.1	20.3	12 E	4*	—
5 16	3 28.28	+29 24.4	2.657	1.673	6.3	20.3	10 W	3*	—
5 26	3 56.67	+30 37.7	2.695	1.707	6.0	20.4	10 W	4*	—
6 5	4 24.81	+31 31.2	2.727	1.740	6.3	20.5	11 W	5*	—
6 15	4 52.60	+32 5.5	2.750	1.772	7.2	20.6	13 W	6*	—
6 25	5 19.88	+32 21.3	2.764	1.802	8.4	20.7	15 W	9*	—
7 5	5 46.54	+32 19.7	2.769	1.830	9.9	20.8	18 W	11*	3*
7 15	6 12.47	+32 1.8	2.764	1.856	11.6	20.9	22 W	14*	5*
7 25	6 37.55	+31 29.0	2.749	1.881	13.3	20.9	25 W	18*	7*
8 4	7 1.71	+30 42.7	2.723	1.904	15.1	21.0	29 W	22*	10*
8 14	7 24.90	+29 44.4	2.687	1.924	16.9	21.1	33 W	26*	12*
8 24	7 47.05	+28 35.6	2.640	1.943	18.6	21.1	38 W	30*	14*
9 3	8 8.16	+27 17.7	2.581	1.960	20.4	21.1	43 W	35*	16*
9 13	8 28.18	+25 52.2	2.512	1.976	22.0	21.1	47 W	40*	19*
9 23	8 47.08	+24 20.5	2.433	1.989	23.6	21.1	53 W	45*	21*
10 3	9 4.83	+22 43.8	2.343	2.000	25.1	21.1	58 W	49*	24*
10 13	9 21.37	+21 3.5	2.244	2.009	26.4	21.1	64 W	54*	27*
10 23	9 36.60	+19 21.0	2.137	2.016	27.5	21.0	69 W	58*	31*
11 2	9 50.44	+17 37.3	2.023	2.021	28.4	20.9	76 W	60*	35*
11 12	10 2.67	+15 53.8	1.902	2.025	29.0	20.8	82 W	61*	39*
11 22	10 13.08	+14 11.7	1.778	2.026	29.2	20.7	89 W	59	44*
12 2	10 21.35	+12 32.4	1.651	2.025	28.9	20.5	97 W	58	48*
12 12	10 27.06	+10 57.4	1.524	2.022	28.0	20.3	105 W	56	52*
12 22	10 29.69	+ 9 28.0	1.401	2.018	26.4	20.1	114 W	54	55
1 1	10 28.70	+ 8 6.0	1.285	2.011	23.8	19.8	124 W	53	56
1 11	10 23.48	+ 6 53.4	1.180	2.002	20.2	19.5	135 W	52	57
1 21	10 13.74	+ 5 52.0	1.092	1.991	15.6	19.1	147 W	51	58

16868 1998 AK_8

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 27.29	−26 7.1	2.941	2.125	12.6	21.3	28 E	9*	21*
1 6	20 47.74	−26 19.5	2.994	2.124	10.4	21.3	23 E	5*	16*
1 16	21 8.52	−26 21.4	3.032	2.122	8.5	21.2	19 E	1*	12*
1 26	21 29.59	−26 14.2	3.055	2.119	6.9	21.2	15 E	—	9*
2 5	21 50.90	−25 59.1	3.063	2.114	6.1	21.1	13 E	—	6*
2 15	22 12.45	−25 37.3	3.056	2.109	6.3	21.1	14 E	—	4*
2 25	22 34.22	−25 10.1	3.036	2.102	7.4	21.2	16 E	—	2*
3 7	22 56.21	−24 38.7	3.003	2.094	9.1	21.2	20 W	—	6*
3 17	23 18.46	−24 4.4	2.958	2.085	11.0	21.2	24 W	—	10*
3 27	23 40.98	−23 28.6	2.903	2.075	13.0	21.3	28 W	—	14*
4 6	0 3.81	−22 52.5	2.840	2.063	15.0	21.3	32 W	—	19*
4 16	0 26.99	−22 17.3	2.769	2.051	16.9	21.3	36 W	—	23*
4 26	0 50.53	−21 44.5	2.692	2.037	18.8	21.3	41 W	—	27*
5 6	1 14.48	−21 15.3	2.613	2.023	20.5	21.2	45 W	—	31*
5 16	1 38.84	−20 51.0	2.530	2.007	22.1	21.2	48 W	—	36*
5 26	2 3.58	−20 32.9	2.448	1.990	23.6	21.2	52 W	—	40*
6 5	2 28.70	−20 21.9	2.366	1.973	25.0	21.1	55 W	—	44*
6 15	2 54.13	−20 19.1	2.286	1.954	26.3	21.0	58 W	—	48*

16868 1998 AK_8 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 25	3 19.77	−20 25.4	2.209	1.935	27.4	21.0	61 W	—	52*
7 5	3 45.49	−20 41.2	2.136	1.915	28.4	20.9	64 W	—	55*
7 15	4 11.16	−21 7.0	2.066	1.894	29.3	20.8	66 W	—	58*
7 25	4 36.56	−21 42.5	2.000	1.873	30.2	20.8	68 W	—	61*
8 4	5 1.54	−22 27.5	1.937	1.851	31.0	20.7	70 W	4*	63*
8 14	5 25.88	−23 21.4	1.877	1.828	31.7	20.6	71 W	7*	65*
8 24	5 49.35	−24 23.3	1.817	1.805	32.4	20.5	73 W	9*	67*
9 3	6 11.80	−25 31.8	1.758	1.781	33.1	20.5	75 W	12*	68*
9 13	6 32.99	−26 46.0	1.696	1.758	33.8	20.4	76 W	13*	70*
9 18	6 43.05	−27 24.7	1.664	1.746	34.2	20.3	77 W	14*	71*
9 23	6 52.73	−28 4.0	1.632	1.734	34.5	20.3	78 W	14*	72*
9 28	7 2.00	−28 43.9	1.598	1.722	34.9	20.2	79 W	15*	73*
10 3	7 10.82	−29 24.2	1.563	1.710	35.2	20.2	80 W	15*	74*
10 8	7 19.17	−30 4.4	1.526	1.698	35.6	20.1	82 W	14*	75*
10 13	7 27.01	−30 44.3	1.488	1.687	36.0	20.1	83 W	14*	77*
10 18	7 34.30	−31 23.5	1.448	1.675	36.3	20.0	84 W	14	78*
10 23	7 41.01	−32 1.4	1.407	1.663	36.6	19.9	86 W	13	79*
10 28	7 47.10	−32 37.8	1.364	1.652	36.9	19.9	88 W	12	80*
11 2	7 52.49	−33 12.0	1.319	1.641	37.2	19.8	89 W	12	81*
11 7	7 57.12	−33 43.3	1.272	1.629	37.5	19.7	91 W	11	82*
11 12	8 0.93	−34 10.6	1.224	1.618	37.6	19.6	93 W	11	82
11 17	8 3.84	−34 32.8	1.174	1.608	37.7	19.5	96 W	10	81
11 22	8 5.78	−34 48.6	1.123	1.597	37.7	19.4	98 W	10	81
11 27	8 6.64	−34 56.4	1.071	1.587	37.6	19.3	101 W	10	81
12 2	8 6.32	−34 54.0	1.017	1.577	37.4	19.1	104 W	10	81
12 7	8 4.72	−34 38.4	0.964	1.567	36.9	19.0	107 W	10	81
12 12	8 1.75	−34 6.3	0.910	1.558	36.3	18.8	111 W	11	82
12 17	7 57.37	−33 13.4	0.857	1.549	35.3	18.7	114 W	12	83
12 22	7 51.54	−31 54.7	0.805	1.540	34.1	18.5	119 W	13	84
12 27	7 44.30	−30 4.5	0.755	1.532	32.5	18.3	123 W	15	86
1 1	7 35.74	−27 36.3	0.708	1.524	30.6	18.1	128 W	17	88
1 6	7 26.09	−24 23.8	0.666	1.517	28.4	17.9	133 W	21	88
1 11	7 15.68	−20 22.5	0.630	1.510	26.0	17.7	138 E	25	84
1 16	7 4.91	−15 31.7	0.602	1.504	23.9	17.5	142 E	29	80
1 21	6 54.24	− 9 56.2	0.583	1.498	22.4	17.4	145 E	35	74

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 27.55	−17 58.6	2.893	2.093	13.4	19.2	29 E	16*	18*
1 6	20 47.62	−15 36.1	2.989	2.134	11.0	19.2	25 E	14*	12*
1 16	21 6.90	−13 11.2	3.076	2.175	8.8	19.2	20 E	12*	6*
1 26	21 25.42	−10 44.4	3.153	2.217	6.6	19.2	15 E	8*	1*
2 5	21 43.26	− 8 16.1	3.220	2.258	4.6	19.2	10 E	4*	—
2 15	22 0.45	− 5 46.5	3.276	2.299	3.1	19.2	7 E	—	—
2 25	22 17.03	− 3 16.0	3.320	2.341	3.0	19.3	7 W	1*	—
3 7	22 33.03	− 0 45.0	3.351	2.382	4.3	19.4	10 W	4*	—
3 17	22 48.48	+ 1 46.2	3.370	2.422	6.0	19.5	15 W	7*	6*
3 27	23 3.37	+ 4 17.5	3.377	2.463	7.9	19.7	20 W	9*	11*
4 6	23 17.71	+ 6 48.4	3.371	2.503	9.8	19.8	25 W	12*	16*
4 16	23 31.50	+ 9 18.8	3.352	2.542	11.6	19.9	31 W	15*	21*
4 26	23 44.70	+11 48.5	3.322	2.581	13.4	19.9	36 W	18*	26*
5 6	23 57.28	+14 17.3	3.280	2.619	14.9	20.0	42 W	22*	30*
5 16	0 9.17	+16 45.2	3.227	2.657	16.4	20.0	48 W	26*	34*
5 26	0 20.29	+19 11.9	3.164	2.694	17.7	20.1	54 W	31*	37*
6 5	0 30.53	+21 37.2	3.092	2.730	18.8	20.1	60 W	36*	38*
6 15	0 39.75	+24 1.2	3.012	2.766	19.7	20.1	66 W	43*	39*
6 25	0 47.76	+26 23.2	2.926	2.801	20.3	20.1	73 W	50*	38*
7 5	0 54.36	+28 42.8	2.836	2.835	20.7	20.0	80 W	58*	35
7 15	0 59.26	+30 59.1	2.742	2.868	20.7	20.0	87 W	66*	33
7 25	1 2.16	+33 10.4	2.649	2.901	20.4	19.9	94 W	75*	31
8 4	1 2.75	+35 14.7	2.558	2.933	19.8	19.9	101 W	80	29
8 14	1 0.73	+37 8.5	2.473	2.964	18.8	19.8	109 W	82	27
8 24	0 55.90	+38 47.2	2.396	2.994	17.5	19.7	117 W	84	25
9 3	0 48.26	+40 5.5	2.333	3.024	15.9	19.6	125 W	85	24
9 8	0 43.47	+40 35.1	2.307	3.038	15.0	19.6	128 W	86	23
9 13	0 38.14	+40 57.4	2.285	3.052	14.2	19.5	132 W	86	23
9 18	0 32.37	+41 11.9	2.269	3.066	13.3	19.5	135 W	86	23
9 23	0 26.29	+41 18.2	2.258	3.080	12.5	19.5	138 W	86	23
9 28	0 20.05	+41 16.3	2.253	3.093	11.9	19.4	141 W	86	23
10 3	0 13.80	+41 6.3	2.253	3.107	11.3	19.4	142 E	86	23
10 8	0 7.70	+40 48.5	2.260	3.120	11.0	19.4	143 E	86	23
10 13	0 1.91	+40 23.5	2.272	3.133	10.9	19.4	144 E	85	24
10 18	23 56.56	+39 52.5	2.291	3.145	11.0	19.5	143 E	85	24
10 23	23 51.77	+39 16.4	2.316	3.158	11.3	19.5	142 E	84	25
10 28	23 47.60	+38 36.4	2.347	3.170	11.7	19.6	140 E	84	25
11 2	23 44.13	+37 53.7	2.384	3.182	12.3	19.6	137 E	83	26
11 7	23 41.38	+37 9.5	2.426	3.194	12.9	19.7	134 E	82	27
11 12	23 39.37	+36 24.9	2.473	3.206	13.6	19.8	130 E	81	28
11 17	23 38.10	+35 41.0	2.525	3.217	14.2	19.9	127 E	81	28
11 22	23 37.53	+34 58.6	2.581	3.228	14.9	19.9	123 E	80	29
11 27	23 37.65	+34 18.4	2.641	3.239	15.4	20.0	119 E	79	30
12 2	23 38.40	+33 41.0	2.704	3.250	15.9	20.1	115 E	79	30*

52297 1991 CH_2 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 12	23 41.70	+32 36.1	2.839	3.271	16.7	20.2	107 E	78	30*
12 22	23 47.06	+31 46.1	2.982	3.291	17.1	20.4	99 E	77	28*
1 1	23 54.18	+31 11.4	3.130	3.310	17.3	20.5	92 E	76	25*
1 11	0 2.78	+30 51.9	3.278	3.328	17.1	20.6	84 E	75*	21*
1 21	0 12.60	+30 46.4	3.426	3.345	16.7	20.7	77 E	70*	17*

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 27.63	−22 57.8	3.433	2.611	10.3	20.8	28 E	11*	19*
1 6	20 45.01	−22 33.9	3.461	2.580	8.4	20.7	22 E	8*	14*
1 16	21 2.86	−22 2.3	3.475	2.548	6.4	20.6	17 E	4*	9*
1 26	21 21.09	−21 23.5	3.473	2.516	4.5	20.5	12 E	—	5*
2 5	21 39.63	−20 38.0	3.457	2.483	3.0	20.4	8 E	—	1*
2 15	21 58.45	−19 46.5	3.426	2.449	2.9	20.3	7 E	—	—
2 25	22 17.50	−18 49.9	3.383	2.415	4.2	20.3	10 W	—	2*
3 7	22 36.76	−17 49.0	3.326	2.380	6.1	20.4	15 W	—	7*
3 17	22 56.25	−16 44.6	3.258	2.345	8.2	20.4	20 W	—	12*
3 27	23 15.94	−15 37.8	3.180	2.310	10.3	20.4	25 W	—	17*
4 6	23 35.87	−14 29.7	3.092	2.274	12.5	20.4	29 W	—	22*
4 16	23 56.06	−13 21.4	2.996	2.238	14.6	20.4	34 W	—	26*
4 26	0 16.51	−12 14.0	2.894	2.201	16.6	20.3	39 W	—	31*
5 6	0 37.27	−11 8.8	2.787	2.165	18.6	20.3	43 W	—	36*
5 16	0 58.36	−10 7.1	2.676	2.129	20.5	20.2	48 W	—	41*
5 26	1 19.79	− 9 10.3	2.562	2.092	22.4	20.1	52 W	—	45*
6 5	1 41.58	− 8 19.7	2.447	2.056	24.1	20.0	56 W	3*	50*
6 15	2 3.73	− 7 36.9	2.332	2.021	25.7	19.9	60 W	6*	54*
6 25	2 26.18	− 7 3.2	2.218	1.986	27.3	19.8	64 W	9*	57*
7 5	2 48.91	− 6 40.0	2.105	1.951	28.7	19.7	67 W	13*	60*
7 15	3 11.84	− 6 28.5	1.996	1.918	30.0	19.6	71 W	17*	63*
7 25	3 34.82	− 6 29.6	1.890	1.885	31.2	19.5	74 W	22*	65*
8 4	3 57.74	− 6 43.9	1.788	1.854	32.3	19.4	77 W	25*	67*
8 14	4 20.39	− 7 11.6	1.689	1.824	33.2	19.2	81 W	29*	68*
8 24	4 42.54	− 7 52.3	1.595	1.796	34.0	19.1	84 W	31*	70*
9 3	5 3.96	− 8 44.9	1.505	1.770	34.7	19.0	87 W	33*	72*
9 13	5 24.33	− 9 47.8	1.418	1.746	35.2	18.8	91 W	34*	73*
9 23	5 43.34	−10 58.1	1.334	1.724	35.5	18.7	94 W	34*	75*
9 28	5 52.23	−11 35.0	1.293	1.715	35.6	18.6	96 W	33*	76*
10 3	6 0.64	−12 12.5	1.253	1.705	35.6	18.5	98 W	33	76
10 8	6 8.52	−12 50.0	1.213	1.697	35.5	18.4	100 W	32	77
10 13	6 15.80	−13 26.7	1.174	1.689	35.3	18.3	102 W	32	77
10 18	6 22.45	−14 1.7	1.136	1.682	35.1	18.2	104 W	31	78
10 23	6 28.40	−14 34.2	1.098	1.676	34.7	18.2	106 W	30	79
10 28	6 33.60	−15 3.4	1.060	1.670	34.3	18.1	109 W	30	79
11 2	6 37.96	−15 27.9	1.024	1.665	33.7	18.0	111 W	30	79
11 7	6 41.44	−15 46.6	0.988	1.661	33.0	17.9	114 W	29	80
11 12	6 43.96	−15 57.6	0.953	1.658	32.1	17.8	117 W	29	80
11 17	6 45.49	−15 59.5	0.920	1.656	31.0	17.6	120 W	29	80
11 22	6 46.00	−15 50.4	0.888	1.655	29.8	17.5	124 W	29	80
11 27	6 45.46	−15 28.5	0.858	1.654	28.3	17.4	127 W	30	79
12 2	6 43.89	−14 51.6	0.830	1.654	26.7	17.3	131 W	30	79
12 7	6 41.33	−13 57.9	0.805	1.655	24.9	17.2	135 W	31	78
12 12	6 37.89	−12 45.6	0.783	1.657	23.0	17.1	139 W	32	77
12 17	6 33.73	−11 13.9	0.766	1.660	21.0	17.0	143 W	34	75
12 22	6 29.04	− 9 22.8	0.752	1.663	19.1	16.9	146 W	36	73
12 27	6 24.05	− 7 13.1	0.744	1.668	17.4	16.8	149 W	38	71
1 1	6 19.02	− 4 47.1	0.742	1.673	16.3	16.7	151 E	40	69
1 6	6 14.22	− 2 8.0	0.745	1.679	15.8	16.7	152 E	43	66
1 11	6 9.91	+ 0 40.1	0.755	1.686	16.2	16.8	151 E	46	63
1 16	6 6.33	+ 3 32.4	0.771	1.693	17.2	16.9	149 E	49	60
1 21	6 3.62	+ 6 24.5	0.793	1.701	18.8	17.0	146 E	51	58

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 27.93	−22 6.2	2.467	1.672	16.4	19.5	29 E	12*	19*
1 6	20 56.79	−20 33.8	2.482	1.649	14.8	19.4	25 E	11*	16*
1 16	21 25.69	−18 42.2	2.496	1.630	13.3	19.3	22 E	10*	13*
1 26	21 54.47	−16 33.2	2.509	1.614	11.7	19.3	19 E	8*	10*
2 5	22 23.01	−14 9.3	2.522	1.603	10.2	19.2	17 E	7*	8*
2 15	22 51.25	−11 33.0	2.536	1.596	8.7	19.1	14 E	5*	6*
2 25	23 19.15	− 8 47.7	2.551	1.594	7.2	19.1	12 E	2*	4*
3 7	23 46.70	− 5 56.5	2.568	1.596	5.7	19.0	9 E	—	2*
3 17	0 13.93	− 3 2.9	2.586	1.603	4.4	19.0	7 E	—	1*
3 27	0 40.85	− 0 10.0	2.605	1.614	3.2	18.9	5 E	—	—
4 6	1 7.51	+ 2 38.9	2.626	1.630	2.6	18.9	4 E	—	—
4 16	1 33.93	+ 5 21.2	2.647	1.649	2.9	19.0	5 W	—	—
4 26	2 0.13	+ 7 54.4	2.668	1.672	3.9	19.1	6 W	—	—
5 6	2 26.12	+10 16.3	2.689	1.699	5.2	19.2	9 W	—	2*
5 16	2 51.88	+12 25.4	2.708	1.729	6.7	19.4	11 W	—	5*
5 26	3 17.38	+14 20.4	2.725	1.762	8.2	19.5	14 W	—	8*
6 5	3 42.56	+16 0.5	2.738	1.797	9.8	19.6	18 W	—	11*
6 15	4 7.37	+17 25.4	2.746	1.834	11.4	19.7	21 W	2*	14*
6 25	4 31.71	+18 35.0	2.750	1.873	13.0	19.8	24 W	6*	17*
7 5	4 55.49	+19 29.7	2.747	1.914	14.6	19.9	28 W	10*	20*

198558 2004 XE_{148} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
7 15	5 18.60	+20 10.4	2.738	1.956	16.1	20.0	32 W	15*	22*
7 25	5 40.93	+20 37.9	2.721	1.999	17.6	20.1	37 W	20*	24*
8 4	6 2.38	+20 53.6	2.695	2.042	19.0	20.2	41 W	25*	26*
8 14	6 22.83	+20 58.9	2.661	2.087	20.4	20.2	46 W	31*	28*
8 24	6 42.16	+20 55.6	2.619	2.132	21.6	20.3	51 W	37*	30*
9 3	7 0.27	+20 45.5	2.567	2.177	22.7	20.3	56 W	43*	32*
9 13	7 17.02	+20 30.6	2.506	2.222	23.6	20.3	62 W	48*	33*
9 23	7 32.25	+20 13.1	2.437	2.267	24.3	20.3	68 W	54*	35*
10 3	7 45.83	+19 55.2	2.361	2.312	24.7	20.3	75 W	59*	38*
10 13	7 57.55	+19 39.3	2.278	2.357	24.8	20.3	82 W	63*	40*
10 23	8 7.18	+19 27.8	2.191	2.402	24.5	20.2	90 W	64*	42*
11 2	8 14.47	+19 23.4	2.102	2.446	23.7	20.2	98 W	64	43*
11 12	8 19.14	+19 28.1	2.013	2.490	22.4	20.1	107 W	64	44*
11 22	8 20.93	+19 44.0	1.930	2.533	20.4	20.0	117 W	65	44
12 2	8 19.62	+20 11.8	1.856	2.575	17.7	19.8	127 W	65	44
12 12	8 15.16	+20 51.1	1.797	2.617	14.4	19.7	139 W	66	43
12 22	8 7.79	+21 39.3	1.758	2.659	10.5	19.5	151 W	67	42
12 27	8 3.18	+22 5.4	1.747	2.679	8.3	19.4	157 W	67	42
1 1	7 58.10	+22 32.0	1.744	2.699	6.1	19.3	163 W	68	41
1 6	7 52.68	+22 58.3	1.747	2.720	3.8	19.2	169 W	68	41
1 11	7 47.09	+23 23.7	1.758	2.739	1.6	19.1	175 W	68	41
1 16	7 41.48	+23 47.6	1.777	2.759	1.2	19.1	177 E	69	40
1 21	7 36.01	+24 9.5	1.803	2.779	3.2	19.3	171 E	69	40

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 28.01	−10 12.7	2.329	1.589	19.4	16.3	32 E	22*	15*
1 6	20 54.21	− 7 39.8	2.334	1.557	18.2	16.2	30 E	22*	10*
1 16	21 20.95	− 4 52.2	2.336	1.528	17.1	16.2	27 E	20*	6*
1 26	21 48.21	− 1 51.6	2.337	1.503	16.0	16.1	25 E	19*	3*
2 5	22 16.00	+ 1 19.9	2.339	1.483	15.1	16.0	23 E	17*	—
2 15	22 44.36	+ 4 39.1	2.342	1.468	14.3	16.0	21 E	15*	—
2 25	23 13.33	+ 8 2.5	2.348	1.458	13.5	16.0	20 E	13*	—
3 7	23 42.94	+11 25.5	2.358	1.454	12.7	15.9	19 E	12*	—
3 17	0 13.26	+14 43.7	2.373	1.455	11.9	15.9	17 E	10*	—
3 27	0 44.27	+17 52.1	2.392	1.461	11.0	15.9	16 E	9*	—
4 6	1 15.95	+20 46.1	2.417	1.473	10.1	15.9	15 E	7*	—
4 16	1 48.23	+23 21.3	2.446	1.490	9.1	15.9	14 E	6*	—
4 26	2 20.94	+25 34.3	2.480	1.512	8.1	15.9	12 E	4*	—
5 6	2 53.88	+27 22.4	2.517	1.538	7.1	16.0	11 E	3*	—
5 16	3 26.80	+28 44.1	2.556	1.569	6.3	16.0	10 W	2*	—
5 26	3 59.37	+29 38.9	2.595	1.602	5.7	16.0	9 W	2*	—
6 5	4 31.29	+30 7.4	2.634	1.639	5.5	16.1	9 W	3*	—
6 15	5 2.31	+30 11.0	2.671	1.679	5.9	16.2	10 W	4*	—
6 25	5 32.15	+29 51.7	2.705	1.720	6.8	16.3	11 W	5*	—
7 5	6 0.66	+29 12.1	2.733	1.764	8.0	16.5	14 W	7*	2*
7 15	6 27.72	+28 14.8	2.756	1.809	9.5	16.6	17 W	9*	5*
7 25	6 53.25	+27 2.3	2.772	1.855	11.1	16.7	21 W	12*	7*
8 4	7 17.25	+25 37.2	2.779	1.902	12.7	16.9	24 W	16*	10*
8 14	7 39.72	+24 1.7	2.777	1.949	14.4	17.0	29 W	20*	13*
8 24	8 0.68	+22 17.9	2.766	1.997	16.0	17.1	33 W	24*	15*
9 3	8 20.18	+20 27.5	2.745	2.045	17.6	17.2	38 W	29*	18*
9 13	8 38.22	+18 32.3	2.713	2.092	19.1	17.2	43 W	33*	22*
9 23	8 54.81	+16 33.7	2.670	2.140	20.5	17.3	48 W	38*	25*
10 3	9 9.95	+14 32.9	2.617	2.187	21.8	17.3	54 W	43*	29*
10 13	9 23.56	+12 31.1	2.553	2.234	22.8	17.4	60 W	47*	33*
10 23	9 35.58	+10 29.5	2.481	2.280	23.6	17.4	67 W	50*	37*
11 2	9 45.90	+ 8 29.3	2.400	2.326	24.2	17.4	74 W	52*	42*
11 12	9 54.32	+ 6 31.7	2.313	2.371	24.4	17.3	81 W	51*	48*
11 22	10 0.65	+ 4 38.2	2.221	2.415	24.1	17.3	89 W	50	54*
12 2	10 4.66	+ 2 50.3	2.128	2.458	23.4	17.2	97 W	48	59*
12 12	10 6.05	+ 1 10.2	2.036	2.501	22.2	17.1	107 W	46	63*
12 22	10 4.63	− 0 19.5	1.951	2.543	20.3	17.0	116 W	45	64
1 1	10 0.28	− 1 35.9	1.876	2.583	17.8	16.9	126 W	43	66
1 11	9 53.06	− 2 35.5	1.817	2.623	14.8	16.7	137 W	42	67
1 21	9 43.40	− 3 15.5	1.779	2.662	11.4	16.6	148 W	42	67

7870 1987 UP_2

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 29.18	−16 29.7	2.732	1.947	14.7	18.3	30 E	17*	17*
1 6	20 52.02	−15 4.3	2.753	1.916	12.9	18.2	26 E	15*	13*
1 16	21 15.18	−13 26.4	2.766	1.885	11.0	18.1	21 E	13*	8*
1 26	21 38.60	−11 36.3	2.772	1.855	9.1	18.0	17 E	10*	5*
2 5	22 2.22	− 9 35.1	2.771	1.826	7.2	17.8	13 E	7*	1*
2 15	22 26.05	− 7 23.9	2.765	1.799	5.2	17.7	10 E	3*	—
2 25	22 50.07	− 5 4.0	2.754	1.773	3.4	17.6	6 E	—	—
3 7	23 14.32	− 2 37.2	2.738	1.748	1.7	17.4	3 E	—	—
3 17	23 38.82	− 0 5.2	2.719	1.725	1.4	17.3	2 W	—	—
3 27	0 3.63	+ 2 30.0	2.697	1.705	2.8	17.4	5 W	—	—
4 6	0 28.80	+ 5 6.0	2.672	1.686	4.6	17.5	8 W	—	1*
4 16	0 54.40	+ 7 40.7	2.646	1.670	6.3	17.5	11 W	—	4*
4 26	1 20.46	+10 11.3	2.619	1.656	8.1	17.6	13 W	—	7*
5 6	1 47.04	+12 35.4	2.591	1.646	9.8	17.6	16 W	2*	10*

7870 1987 UP_2 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 16	2 14.16	+14 50.3	2.562	1.638	11.5	17.6	19 W	3*	12*
5 26	2 41.79	+16 53.4	2.533	1.633	13.1	17.6	21 W	5*	14*
6 5	3 9.91	+18 42.2	2.503	1.631	14.7	17.7	24 W	7*	16*
6 15	3 38.44	+20 14.8	2.473	1.632	16.3	17.7	27 W	9*	18*
6 25	4 7.22	+21 29.1	2.442	1.636	17.8	17.7	29 W	12*	20*
7 5	4 36.11	+22 24.0	2.410	1.643	19.3	17.8	32 W	15*	21*
7 15	5 4.90	+22 58.7	2.377	1.652	20.7	17.8	35 W	19*	22*
7 25	5 33.37	+23 13.2	2.342	1.665	22.1	17.8	38 W	23*	24*
8 4	6 1.30	+23 8.0	2.304	1.680	23.5	17.8	41 W	27*	25*
8 14	6 28.46	+22 44.3	2.263	1.698	24.8	17.9	45 W	31*	26*
8 24	6 54.66	+22 3.7	2.219	1.718	26.0	17.9	48 W	36*	27*
9 3	7 19.74	+21 8.4	2.171	1.740	27.1	17.9	52 W	40*	28*
9 13	7 43.54	+20 0.5	2.119	1.764	28.2	17.9	56 W	44*	30*
9 23	8 5.93	+18 42.7	2.061	1.790	29.1	17.9	60 W	48*	32*
10 3	8 26.81	+17 17.5	1.999	1.817	29.9	17.9	65 W	51*	34*
10 13	8 46.06	+15 47.8	1.932	1.845	30.5	17.9	70 W	54*	37*
10 23	9 3.55	+14 16.1	1.860	1.875	30.9	17.8	75 W	57*	40*
11 2	9 19.15	+12 45.4	1.784	1.905	31.0	17.8	81 W	57*	43*
11 12	9 32.62	+11 18.4	1.704	1.936	30.7	17.7	88 W	56	47*
11 22	9 43.74	+ 9 58.3	1.622	1.968	30.0	17.6	95 W	55	51*
12 2	9 52.23	+ 8 48.1	1.540	2.000	28.8	17.5	102 W	54	54*
12 12	9 57.72	+ 7 51.2	1.460	2.032	26.9	17.4	111 W	53	56
12 22	9 59.91	+ 7 11.0	1.385	2.065	24.3	17.2	120 W	52	57
1 1	9 58.56	+ 6 50.2	1.319	2.097	20.8	17.0	131 W	52	57
1 11	9 53.63	+ 6 51.0	1.268	2.130	16.6	16.8	142 W	52	57
1 21	9 45.55	+ 7 13.0	1.235	2.162	11.6	16.6	154 W	52	57

34613 2000 UR_{13}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 29.20	−18 30.3	2.436	1.655	17.1	19.9	30 E	15*	18*
1 6	20 56.68	−16 24.3	2.529	1.705	14.8	20.0	26 E	15*	14*
1 16	21 22.62	−14 10.6	2.620	1.755	12.6	20.1	23 E	13*	10*
1 26	21 47.16	−11 51.7	2.707	1.805	10.3	20.1	19 E	11*	7*
2 5	22 10.46	− 9 29.8	2.789	1.855	8.0	20.1	15 E	8*	3*
2 15	22 32.65	− 7 6.8	2.865	1.905	5.7	20.1	11 E	5*	—
2 25	22 53.87	− 4 43.9	2.933	1.954	3.5	20.1	7 E	1*	—
3 7	23 14.23	− 2 22.6	2.992	2.002	1.6	20.1	3 E	—	—
3 17	23 33.84	− 0 3.6	3.041	2.049	1.7	20.2	3 W	—	—
3 27	23 52.77	+ 2 12.0	3.080	2.095	3.6	20.4	8 W	—	1*
4 6	0 11.09	+ 4 23.8	3.108	2.141	5.7	20.6	12 W	1*	6*
4 16	0 28.86	+ 6 31.1	3.124	2.185	7.7	20.7	17 W	3*	10*
4 26	0 46.09	+ 8 33.3	3.128	2.227	9.7	20.9	22 W	5*	15*
5 6	1 2.81	+10 30.2	3.120	2.269	11.7	21.0	27 W	8*	20*
5 16	1 19.02	+12 21.5	3.099	2.309	13.6	21.1	32 W	11*	25*
5 26	1 34.69	+14 6.7	3.065	2.348	15.3	21.1	38 W	14*	29*
6 5	1 49.79	+15 45.9	3.020	2.386	17.0	21.2	43 W	18*	33*
6 15	2 4.25	+17 18.7	2.962	2.422	18.5	21.2	49 W	23*	36*
6 25	2 17.97	+18 45.2	2.893	2.457	19.8	21.3	55 W	29*	39*
7 5	2 30.84	+20 5.4	2.814	2.490	21.0	21.3	61 W	36*	40*
7 15	2 42.69	+21 19.2	2.725	2.522	21.9	21.2	68 W	43*	41*
7 25	2 53.34	+22 26.7	2.628	2.553	22.6	21.2	75 W	50*	41*
8 4	3 2.55	+23 27.8	2.524	2.582	22.9	21.2	82 W	58*	41
8 14	3 10.04	+24 22.5	2.416	2.610	22.8	21.1	89 W	65*	40
8 24	3 15.48	+25 10.3	2.305	2.636	22.3	21.0	98 W	69*	39
9 3	3 18.53	+25 50.7	2.196	2.661	21.3	20.9	106 W	71	38
9 13	3 18.85	+26 22.2	2.091	2.685	19.7	20.7	116 W	71	38
9 23	3 16.18	+26 43.0	1.995	2.707	17.5	20.6	126 W	72	37
10 3	3 10.43	+26 50.5	1.913	2.728	14.6	20.4	136 W	72	37
10 13	3 1.79	+26 41.8	1.851	2.747	11.2	20.2	148 W	72	37
10 18	2 56.58	+26 30.8	1.828	2.756	9.3	20.1	154 W	72	37
10 23	2 50.92	+26 15.3	1.812	2.765	7.3	20.0	159 W	71	38
10 28	2 44.94	+25 55.4	1.803	2.773	5.5	19.9	165 W	71	38
11 2	2 38.81	+25 31.5	1.801	2.781	4.0	19.9	169 W	71	38
11 7	2 32.69	+25 4.0	1.807	2.789	3.4	19.8	170 E	70	39
11 12	2 26.75	+24 33.9	1.820	2.796	4.2	19.9	168 E	70	39
11 17	2 21.14	+24 2.0	1.841	2.803	5.8	20.0	163 E	69	40
11 22	2 15.99	+23 29.3	1.870	2.810	7.6	20.1	158 E	68	41
11 27	2 11.41	+22 56.7	1.905	2.816	9.4	20.3	152 E	68	41
12 2	2 7.46	+22 25.2	1.947	2.822	11.1	20.4	147 E	67	42
12 7	2 4.22	+21 55.5	1.995	2.828	12.7	20.5	141 E	67	42
12 12	2 1.70	+21 28.4	2.048	2.833	14.2	20.6	135 E	66	43
12 17	1 59.93	+21 4.3	2.106	2.838	15.5	20.7	130 E	66	43
12 22	1 58.88	+20 43.6	2.168	2.843	16.6	20.8	124 E	66	43
12 27	1 58.52	+20 26.4	2.234	2.847	17.5	20.9	119 E	65	44
1 1	1 58.84	+20 12.8	2.302	2.851	18.3	21.0	114 E	65	44*
1 6	1 59.80	+20 2.8	2.373	2.854	19.0	21.1	109 E	65	44*
1 11	2 1.36	+19 56.4	2.446	2.857	19.5	21.2	105 E	65	43*
1 16	2 3.48	+19 53.3	2.520	2.860	19.8	21.3	100 E	65	42*
1 21	2 6.12	+19 53.4	2.595	2.863	20.0	21.4	96 E	65	41*

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 27	20 30.07	−12 15.1	3.679	2.893	10.4	18.0	32 E	21*	16*
1 6	20 44.84	−11 54.3	3.711	2.855	8.5	17.9	25 E	17*	10*
1 16	21 0.07	−11 25.3	3.728	2.817	6.6	17.8	19 E	12*	4*
1 26	21 15.69	−10 48.8	3.728	2.777	4.6	17.7	13 E	7*	—
2 5	21 31.62	−10 5.3	3.712	2.737	2.6	17.5	7 E	1*	—
2 15	21 47.81	− 9 15.5	3.681	2.696	1.4	17.4	4 W	—	—
2 25	22 4.22	− 8 20.1	3.634	2.654	2.6	17.4	7 W	—	—
3 7	22 20.82	− 7 20.1	3.573	2.612	4.6	17.5	12 W	1*	6*
3 17	22 37.60	− 6 16.2	3.498	2.569	6.8	17.5	18 W	3*	12*
3 27	22 54.54	− 5 9.4	3.409	2.525	9.0	17.5	23 W	4*	17*
4 6	23 11.66	− 4 0.8	3.309	2.480	11.2	17.5	29 W	5*	23*
4 16	23 28.97	− 2 51.2	3.199	2.435	13.4	17.4	34 W	7*	28*
4 26	23 46.49	− 1 42.1	3.078	2.389	15.5	17.4	39 W	8*	33*
5 6	0 4.23	− 0 34.5	2.950	2.343	17.6	17.3	45 W	10*	38*
5 16	0 22.24	+ 0 30.2	2.815	2.296	19.7	17.2	50 W	12*	43*
5 26	0 40.54	+ 1 30.5	2.675	2.249	21.6	17.1	55 W	15*	47*
6 5	0 59.15	+ 2 24.7	2.530	2.202	23.5	17.0	60 W	18*	51*
6 15	1 18.12	+ 3 11.0	2.383	2.154	25.2	16.9	65 W	21*	54*
6 25	1 37.44	+ 3 47.4	2.235	2.107	26.9	16.8	70 W	25*	56*
7 5	1 57.13	+ 4 11.5	2.087	2.060	28.4	16.6	74 W	30*	58*
7 15	2 17.16	+ 4 20.8	1.941	2.013	29.7	16.5	79 W	34*	59*
7 25	2 37.49	+ 4 12.5	1.799	1.967	30.9	16.3	84 W	38*	60*
8 4	2 58.05	+ 3 43.9	1.660	1.922	31.9	16.1	88 W	42*	60
8 14	3 18.69	+ 2 51.8	1.528	1.877	32.6	15.9	93 W	44*	61
8 24	3 39.23	+ 1 33.8	1.403	1.834	33.1	15.6	98 W	45*	62
9 3	3 59.44	− 0 12.3	1.287	1.793	33.4	15.4	102 W	45*	64
9 13	4 18.96	− 2 27.7	1.181	1.753	33.4	15.2	106 W	43	66
9 23	4 37.41	− 5 11.3	1.085	1.716	33.2	14.9	110 W	40	69
9 28	4 46.10	− 6 42.9	1.041	1.698	33.0	14.8	112 W	38	71
10 3	4 54.33	− 8 20.1	1.000	1.681	32.8	14.7	114 W	37	72
10 8	5 2.04	−10 2.1	0.962	1.665	32.6	14.6	116 W	35	74
10 13	5 9.16	−11 47.6	0.926	1.650	32.3	14.5	118 W	33	76
10 18	5 15.62	−13 35.1	0.894	1.635	32.0	14.4	120 W	31	78
10 23	5 21.36	−15 23.2	0.864	1.621	31.7	14.3	121 W	30	79
10 28	5 26.31	−17 9.9	0.838	1.609	31.3	14.2	123 W	28	81
11 2	5 30.40	−18 53.2	0.814	1.597	31.0	14.1	124 W	26	83
11 7	5 33.59	−20 30.9	0.792	1.586	30.7	14.0	125 W	24	85
11 12	5 35.85	−22 0.3	0.773	1.577	30.4	13.9	126 W	23	86
11 17	5 37.21	−23 19.3	0.756	1.568	30.1	13.9	127 W	22	87
11 22	5 37.70	−24 25.3	0.742	1.561	29.8	13.8	128 W	21	88
11 27	5 37.37	−25 16.4	0.730	1.555	29.5	13.8	129 W	20	89
12 2	5 36.33	−25 50.3	0.721	1.550	29.3	13.7	130 W	19	90
12 7	5 34.73	−26 5.1	0.713	1.546	29.1	13.7	130 W	19	90
12 12	5 32.77	−25 59.6	0.708	1.543	28.9	13.7	131 W	19	90
12 17	5 30.68	−25 33.2	0.705	1.542	28.8	13.6	131 E	19	90
12 22	5 28.66	−24 45.9	0.705	1.542	28.7	13.6	131 E	20	89
12 27	5 26.92	−23 38.3	0.707	1.543	28.7	13.7	131 E	21	88
1 1	5 25.65	−22 11.6	0.712	1.546	28.8	13.7	131 E	23	86
1 6	5 25.03	−20 27.5	0.719	1.549	28.9	13.7	130 E	25	84
1 11	5 25.19	−18 28.5	0.730	1.554	29.2	13.8	130 E	27	82
1 16	5 26.23	−16 17.5	0.744	1.560	29.5	13.8	129 E	29	80
1 21	5 28.17	−13 57.5	0.761	1.568	29.9	13.9	127 E	31	78

443103 2013 WT_{67}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 30.50	−15 36.1	1.680	0.976	31.1	20.3	31 E	18*	17*
1 6	21 5.56	−11 7.4	1.651	0.943	31.8	20.2	30 E	20*	14*
1 16	21 40.64	− 6 14.3	1.615	0.913	33.0	20.1	30 E	22*	11*
1 26	22 16.28	− 1 2.2	1.573	0.886	34.8	20.1	31 E	24*	9*
1 31	22 34.51	+ 1 38.8	1.550	0.874	35.8	20.0	31 E	25*	7*
2 5	22 53.14	+ 4 21.5	1.527	0.863	37.0	20.0	32 E	26*	7*
2 10	23 12.28	+ 7 4.7	1.503	0.854	38.3	20.0	32 E	26*	6*
2 15	23 32.02	+ 9 46.8	1.478	0.847	39.7	20.0	33 E	27*	6*
2 20	23 52.48	+12 26.1	1.454	0.841	41.1	19.9	34 E	28*	5*
2 25	0 13.74	+15 0.4	1.429	0.838	42.5	19.9	35 E	29*	6*
3 2	0 35.88	+17 27.4	1.406	0.836	43.9	19.9	36 E	30*	6*
3 7	0 58.98	+19 44.8	1.384	0.837	45.3	19.9	37 E	31*	6*
3 12	1 23.06	+21 49.9	1.363	0.839	46.5	20.0	38 E	32*	7*
3 17	1 48.10	+23 40.0	1.344	0.843	47.6	20.0	39 E	33*	8*
3 22	2 14.02	+25 12.8	1.328	0.850	48.6	20.0	40 E	34*	10*
3 27	2 40.67	+26 25.8	1.314	0.858	49.4	20.0	41 E	34*	11*
4 1	3 7.84	+27 17.5	1.302	0.868	50.1	20.0	42 E	35*	13*
4 6	3 35.28	+27 46.7	1.294	0.879	50.5	20.1	43 E	36*	15*
4 11	4 2.73	+27 53.4	1.289	0.891	50.8	20.1	44 E	36*	17*
4 16	4 29.88	+27 38.1	1.287	0.905	50.9	20.1	44 E	36*	19*
4 21	4 56.47	+27 2.1	1.289	0.919	50.9	20.2	45 E	36*	21*
4 26	5 22.29	+26 7.3	1.293	0.934	50.7	20.2	46 E	35*	23*
5 1	5 47.17	+24 55.9	1.299	0.950	50.3	20.2	47 E	34*	26*
5 6	6 11.04	+23 30.6	1.309	0.966	49.9	20.3	47 E	32*	28*
5 11	6 33.86	+21 53.7	1.321	0.983	49.4	20.3	48 E	31*	30*
5 16	6 55.65	+20 7.5	1.334	0.999	48.8	20.4	48 E	29*	32*
5 21	7 16.43	+18 14.3	1.350	1.016	48.2	20.4	48 E	27*	34*

443103 2013 WT_{67} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 26	7 36.28	+16 15.8	1.367	1.032	47.5	20.4	49 E	24*	36*
5 31	7 55.27	+14 13.6	1.385	1.048	46.8	20.5	49 E	22*	37*
6 5	8 13.51	+12 8.9	1.404	1.064	46.0	20.5	49 E	19*	39*
6 10	8 31.08	+10 2.9	1.424	1.080	45.3	20.6	49 E	17*	40*
6 15	8 48.07	+ 7 56.3	1.445	1.095	44.5	20.6	49 E	14*	41*
6 20	9 4.57	+ 5 49.8	1.466	1.109	43.8	20.6	49 E	12*	42*
6 25	9 20.64	+ 3 43.9	1.488	1.123	43.1	20.7	49 E	10*	42*
6 30	9 36.36	+ 1 39.1	1.509	1.136	42.3	20.7	49 E	8*	42*
7 5	9 51.81	− 0 24.4	1.531	1.148	41.6	20.8	49 E	6*	43*
7 10	10 7.04	− 2 26.3	1.552	1.160	40.9	20.8	48 E	4*	42*
7 15	10 22.13	− 4 26.3	1.573	1.171	40.2	20.8	48 E	2*	42*
7 20	10 37.12	− 6 24.3	1.594	1.181	39.6	20.8	48 E	1*	42*
7 25	10 52.06	− 8 20.1	1.614	1.190	38.9	20.9	47 E	—	41*
7 30	11 6.99	−10 13.4	1.635	1.199	38.2	20.9	47 E	—	40*
8 4	11 21.97	−12 4.1	1.654	1.206	37.6	20.9	46 E	—	39*
8 9	11 37.04	−13 51.9	1.673	1.213	37.0	20.9	46 E	—	39*
8 14	11 52.24	−15 36.7	1.692	1.219	36.4	21.0	45 E	—	38*
8 19	12 7.60	−17 18.2	1.710	1.223	35.7	21.0	45 E	—	37*
8 24	12 23.15	−18 56.0	1.727	1.227	35.1	21.0	44 E	—	36*
8 29	12 38.93	−20 29.7	1.744	1.230	34.5	21.0	44 E	—	35*
9 3	12 54.97	−21 59.2	1.760	1.232	34.0	21.0	43 E	—	34*
9 8	13 11.30	−23 24.0	1.775	1.234	33.4	21.0	42 E	—	34*
9 13	13 27.93	−24 43.8	1.790	1.234	32.8	21.0	42 E	—	33*
9 18	13 44.88	−25 58.0	1.804	1.233	32.2	21.0	41 E	—	32*
9 23	14 2.16	−27 6.1	1.817	1.231	31.6	21.0	40 E	—	32*
9 28	14 19.77	−28 7.7	1.829	1.229	31.0	21.0	39 E	—	31*
10 3	14 37.71	−29 2.4	1.841	1.225	30.5	21.0	38 E	—	30*
10 8	14 55.98	−29 49.6	1.852	1.221	29.9	21.0	37 E	—	30*
10 13	15 14.55	−30 28.8	1.862	1.216	29.3	21.0	37 E	—	29*
10 18	15 33.39	−30 59.7	1.870	1.209	28.7	20.9	36 E	—	29*
10 23	15 52.47	−31 21.7	1.878	1.202	28.1	20.9	35 E	—	28*
10 28	16 11.75	−31 34.4	1.885	1.194	27.5	20.9	34 E	—	27*
11 2	16 31.17	−31 37.6	1.891	1.185	26.9	20.9	33 E	—	26*
11 7	16 50.70	−31 30.9	1.896	1.176	26.4	20.8	32 E	—	26*
11 12	17 10.27	−31 14.3	1.900	1.165	25.8	20.8	31 E	1*	25*
11 17	17 29.82	−30 47.4	1.902	1.154	25.2	20.8	30 E	2*	24*
11 22	17 49.30	−30 10.4	1.903	1.142	24.6	20.7	29 E	3*	23*
11 27	18 8.67	−29 23.2	1.903	1.129	24.1	20.7	28 E	4*	22*
12 2	18 27.88	−28 25.9	1.902	1.116	23.6	20.6	27 E	5*	20*
12 7	18 46.92	−27 18.8	1.899	1.102	23.1	20.6	26 E	6*	19*
12 12	19 5.74	−26 1.9	1.895	1.087	22.6	20.6	25 E	7*	18*
12 17	19 24.33	−24 35.7	1.889	1.072	22.2	20.5	24 E	8*	16*
12 22	19 42.69	−23 0.3	1.882	1.056	21.8	20.4	24 E	9*	15*
12 27	20 0.83	−21 16.1	1.874	1.040	21.5	20.4	23 E	10*	13*
1 1	20 18.76	−19 23.5	1.864	1.024	21.3	20.3	22 E	11*	12*
1 6	20 36.53	−17 22.9	1.853	1.007	21.2	20.3	22 E	11*	10*
1 11	20 54.14	−15 14.7	1.840	0.991	21.2	20.2	21 E	12*	9*
1 16	21 11.66	−12 59.5	1.825	0.974	21.3	20.2	21 E	13*	8*
1 21	21 29.12	−10 37.7	1.810	0.958	21.6	20.1	21 E	13*	6*

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12 27	20 30.51	−21 52.8	1.189	0.584	55.4	19.9	29 E	13*	20*
1 1	21 3.58	−21 44.7	1.130	0.596	60.4	20.0	32 E	14*	22*
1 6	21 36.90	−21 16.7	1.073	0.617	64.7	20.1	35 E	15*	25*
1 11	22 10.29	−20 27.0	1.023	0.644	68.0	20.2	37 E	17*	27*
1 16	22 43.55	−19 14.3	0.978	0.678	70.2	20.3	40 E	19*	30*
1 21	23 16.52	−17 38.7	0.942	0.715	71.4	20.3	44 E	21*	33*
1 26	23 48.98	−15 41.3	0.913	0.755	71.7	20.4	47 E	23*	35*
1 31	0 20.75	−13 24.6	0.893	0.796	71.1	20.5	50 E	26*	38*
2 5	0 51.63	−10 52.4	0.882	0.838	69.9	20.5	53 E	29*	40*
2 10	1 21.48	− 8 9.6	0.879	0.880	68.2	20.5	56 E	31*	42*
2 15	1 50.17	− 5 21.5	0.885	0.922	66.3	20.6	59 E	34*	43*
2 20	2 17.62	− 2 33.4	0.898	0.963	64.1	20.7	61 E	37*	44*
2 25	2 43.79	+ 0 10.1	0.919	1.003	61.8	20.7	63 E	39*	45*
3 2	3 8.69	+ 2 45.3	0.946	1.042	59.6	20.8	65 E	42*	45*
3 7	3 32.36	+ 5 9.7	0.979	1.079	57.4	20.9	66 E	44*	45*
3 12	3 54.89	+ 7 21.8	1.017	1.116	55.3	21.0	67 E	45*	45*
3 17	4 16.36	+ 9 20.8	1.059	1.150	53.3	21.1	68 E	46*	44*
3 22	4 36.84	+11 6.7	1.105	1.184	51.5	21.2	68 E	47*	44*
3 27	4 56.41	+12 39.6	1.154	1.215	49.7	21.3	68 E	47*	43*
4 1	5 15.15	+14 0.2	1.205	1.246	48.1	21.4	68 E	47*	43*
4 6	5 33.15	+15 9.4	1.258	1.274	46.5	21.5	68 E	47*	42*

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12 27	20 30.85	−22 38.9	3.165	2.356	11.8	21.5	29 E	12*	20*
1 6	20 50.13	−22 10.0	3.200	2.333	9.7	21.4	24 E	9*	15*
1 16	21 9.77	−21 31.8	3.223	2.310	7.7	21.3	18 E	5*	11*
1 26	21 29.71	−20 45.0	3.232	2.286	5.7	21.2	13 E	1*	7*
2 5	21 49.88	−19 50.2	3.229	2.261	4.0	21.1	9 E	—	3*
2 15	22 10.24	−18 48.4	3.212	2.236	3.2	21.0	7 E	—	—
2 25	22 30.77	−17 40.4	3.184	2.210	3.8	21.0	8 W	—	—
3 7	22 51.45	−16 27.2	3.145	2.184	5.4	21.0	12 W	—	3*

190451 2000 AX_{146} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 17	23 12.29	−15 10.0	3.096	2.157	7.3	21.1	16 W	—	8*
3 27	23 33.29	−13 49.7	3.037	2.130	9.4	21.1	20 W	—	12*
4 6	23 54.49	−12 27.7	2.969	2.103	11.5	21.1	25 W	—	17*
4 16	0 15.90	−11 4.9	2.895	2.075	13.6	21.1	29 W	—	21*
4 26	0 37.55	− 9 42.9	2.814	2.048	15.6	21.1	33 W	—	26*
5 6	0 59.47	− 8 22.7	2.729	2.020	17.6	21.0	37 W	—	30*
5 16	1 21.69	− 7 5.9	2.639	1.993	19.5	21.0	41 W	—	34*
5 26	1 44.21	− 5 53.8	2.547	1.965	21.4	20.9	45 W	—	39*
6 5	2 7.04	− 4 47.6	2.453	1.938	23.1	20.9	49 W	1*	43*
6 15	2 30.18	− 3 49.0	2.358	1.911	24.8	20.8	52 W	4*	46*
6 25	2 53.58	− 2 59.2	2.262	1.885	26.4	20.7	56 W	8*	49*
7 5	3 17.19	− 2 19.2	2.168	1.860	27.9	20.7	59 W	12*	52*
7 15	3 40.94	− 1 50.4	2.074	1.835	29.3	20.6	62 W	16*	54*
7 25	4 4.71	− 1 33.3	1.982	1.811	30.6	20.5	65 W	21*	56*
8 4	4 28.38	− 1 28.5	1.891	1.789	31.9	20.4	68 W	25*	58*
8 14	4 51.78	− 1 36.0	1.802	1.767	33.0	20.3	72 W	29*	59*
8 24	5 14.75	− 1 55.2	1.714	1.747	33.9	20.2	75 W	33*	61*
9 3	5 37.09	− 2 25.3	1.628	1.729	34.8	20.1	78 W	36*	62*
9 13	5 58.58	− 3 4.9	1.542	1.713	35.5	20.0	82 W	38*	64*
9 23	6 19.00	− 3 51.4	1.457	1.698	36.1	19.8	85 W	40*	65*
10 3	6 38.10	− 4 42.3	1.373	1.686	36.4	19.7	89 W	40*	67*
10 13	6 55.58	− 5 33.9	1.288	1.675	36.5	19.6	93 W	39	69*
10 18	7 3.62	− 5 58.5	1.246	1.671	36.4	19.5	96 W	39	69*
10 23	7 11.13	− 6 21.4	1.204	1.667	36.2	19.4	98 W	39	70*
10 28	7 18.08	− 6 41.9	1.162	1.664	35.9	19.3	101 W	38	71*
11 2	7 24.39	− 6 59.1	1.121	1.662	35.5	19.2	104 W	38	71
11 7	7 30.02	− 7 12.1	1.079	1.660	34.9	19.1	106 W	38	71
11 12	7 34.89	− 7 19.5	1.039	1.658	34.2	19.0	110 W	38	71
11 17	7 38.97	− 7 20.3	0.999	1.658	33.3	18.9	113 W	38	71
11 22	7 42.18	− 7 12.9	0.960	1.657	32.2	18.8	117 W	38	71
11 27	7 44.46	− 6 55.9	0.922	1.658	30.8	18.6	121 W	38	71
12 2	7 45.76	− 6 27.7	0.886	1.659	29.2	18.5	125 W	39	70
12 7	7 46.03	− 5 46.5	0.852	1.661	27.3	18.4	129 W	39	70
12 12	7 45.25	− 4 50.5	0.820	1.663	25.2	18.2	134 W	40	69
12 17	7 43.44	− 3 38.4	0.792	1.666	22.7	18.1	139 W	41	68
12 22	7 40.67	− 2 9.3	0.768	1.670	20.0	17.9	145 W	43	66
12 27	7 37.00	− 0 23.0	0.748	1.674	17.0	17.8	150 W	45	64
1 1	7 32.59	+ 1 39.8	0.733	1.679	14.0	17.6	156 W	47	62
1 6	7 27.65	+ 3 57.3	0.724	1.684	11.1	17.5	161 W	49	60
1 11	7 22.44	+ 6 26.2	0.721	1.690	9.0	17.4	164 E	51	58
1 16	7 17.25	+ 9 2.3	0.725	1.696	8.3	17.4	166 E	54	55
1 21	7 12.35	+11 41.0	0.736	1.703	9.4	17.5	164 E	57	52

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12 27	20 31.55	−13 21.4	2.592	1.832	16.5	21.1	32 E	20*	17*
1 6	20 53.11	−10 38.8	2.609	1.799	14.8	21.0	28 E	19*	11*
1 16	21 15.02	− 7 44.7	2.618	1.768	13.2	20.9	24 E	17*	6*
1 26	21 37.25	− 4 39.4	2.622	1.739	11.7	20.8	21 E	15*	1*
2 5	21 59.83	− 1 23.5	2.620	1.713	10.5	20.7	18 E	12*	—
2 15	22 22.83	+ 2 2.0	2.614	1.690	9.5	20.7	16 E	10*	—
2 25	22 46.33	+ 5 35.5	2.606	1.671	8.9	20.6	15 E	7*	—
3 7	23 10.42	+ 9 15.0	2.596	1.655	8.7	20.6	15 E	4*	—
3 17	23 35.22	+12 57.9	2.586	1.643	8.8	20.5	15 W	6*	—
3 27	0 0.86	+16 41.0	2.576	1.635	9.2	20.5	15 W	8*	—
4 6	0 27.48	+20 20.8	2.569	1.631	9.7	20.5	16 W	9*	—
4 16	0 55.21	+23 53.1	2.564	1.631	10.3	20.6	17 W	11*	—
4 26	1 24.13	+27 13.6	2.562	1.635	11.0	20.6	18 W	12*	—
5 6	1 54.30	+30 17.8	2.563	1.643	11.6	20.6	19 W	13*	—
5 16	2 25.67	+33 1.5	2.567	1.655	12.2	20.7	20 W	14*	—
5 26	2 58.11	+35 20.7	2.573	1.671	12.8	20.7	21 W	15*	1*
6 5	3 31.35	+37 12.5	2.581	1.691	13.4	20.8	23 W	16*	2*
6 15	4 5.02	+38 34.9	2.589	1.714	14.1	20.8	24 W	18*	2*
6 25	4 38.63	+39 27.4	2.597	1.740	14.8	20.9	26 W	19*	3*
7 5	5 11.70	+39 50.8	2.602	1.769	15.6	21.0	28 W	21*	4*
7 15	5 43.75	+39 47.1	2.605	1.800	16.5	21.0	30 W	24*	5*
7 25	6 14.36	+39 19.2	2.602	1.833	17.5	21.1	33 W	26*	6*
8 4	6 43.25	+38 30.6	2.594	1.869	18.5	21.2	36 W	29*	7*
8 14	7 10.23	+37 25.1	2.579	1.906	19.7	21.2	39 W	33*	9*
8 24	7 35.18	+36 6.3	2.556	1.944	20.8	21.3	43 W	37*	11*
9 3	7 58.09	+34 37.5	2.524	1.984	21.9	21.4	47 W	41*	13*
9 13	8 18.95	+33 1.9	2.483	2.025	23.0	21.4	52 W	46*	15*
9 23	8 37.77	+31 22.3	2.433	2.066	24.0	21.4	57 W	50*	18*
10 3	8 54.55	+29 40.9	2.373	2.108	24.9	21.4	63 W	56*	21*
10 13	9 9.25	+28 0.1	2.304	2.151	25.6	21.4	69 W	61*	24*
10 23	9 21.77	+26 21.6	2.226	2.193	26.0	21.4	75 W	65*	27*
11 2	9 32.00	+24 47.0	2.142	2.236	26.1	21.4	82 W	68*	31*
11 12	9 39.73	+23 18.0	2.053	2.279	25.7	21.3	90 W	68	36*
11 22	9 44.70	+21 55.6	1.961	2.321	24.9	21.2	98 W	67	40*
12 2	9 46.63	+20 40.8	1.870	2.364	23.4	21.1	108 W	66	43*
12 12	9 45.21	+19 33.9	1.784	2.406	21.2	21.0	118 W	65	44
12 22	9 40.29	+18 34.8	1.709	2.448	18.3	20.9	129 W	64	45

513135 2001 BF_{21} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 1	9 31.90	+17 42.2	1.650	2.489	14.5	20.7	141 W	63	46
1 11	9 20.47	+16 54.7	1.614	2.530	10.1	20.5	153 W	62	47
1 21	9 6.96	+16 10.2	1.604	2.571	5.2	20.3	166 W	61	48

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12 27	20 31.94	− 3 46.5	3.852	3.118	10.9	20.6	37 E	28*	13*
1 6	20 44.83	− 3 0.5	3.931	3.124	9.2	20.6	31 E	24*	6*
1 16	20 57.89	− 2 6.9	3.994	3.129	7.6	20.5	25 E	19*	—
1 26	21 11.04	− 1 6.2	4.040	3.133	6.2	20.5	20 E	13*	—
2 5	21 24.18	+ 0 1.1	4.069	3.135	5.0	20.5	16 E	7*	—
2 15	21 37.26	+ 1 14.6	4.082	3.136	4.6	20.4	15 W	7*	—
2 25	21 50.21	+ 2 33.7	4.077	3.136	4.9	20.4	16 W	10*	—
3 7	22 2.98	+ 3 57.8	4.055	3.135	5.9	20.5	19 W	12*	5*
3 17	22 15.51	+ 5 26.4	4.017	3.132	7.4	20.5	24 W	15*	11*
3 27	22 27.74	+ 6 59.0	3.963	3.129	8.9	20.6	29 W	17*	17*
4 6	22 39.62	+ 8 34.9	3.894	3.124	10.5	20.6	35 W	20*	23*
4 16	22 51.10	+10 13.7	3.810	3.118	12.1	20.6	41 W	23*	29*
4 26	23 2.09	+11 54.7	3.714	3.110	13.6	20.6	47 W	26*	34*
5 6	23 12.53	+13 37.4	3.605	3.102	15.0	20.6	53 W	29*	38*
5 16	23 22.32	+15 21.3	3.486	3.092	16.3	20.5	59 W	33*	42*
5 26	23 31.34	+17 5.6	3.357	3.081	17.4	20.5	66 W	38*	44*
6 5	23 39.46	+18 49.7	3.222	3.069	18.4	20.4	72 W	43*	45*
6 15	23 46.50	+20 32.6	3.080	3.056	19.1	20.3	79 W	49*	43
6 25	23 52.27	+22 13.3	2.935	3.041	19.5	20.2	86 W	56*	42
7 5	23 56.54	+23 50.2	2.789	3.026	19.6	20.1	93 W	63*	40
7 15	23 59.04	+25 21.5	2.644	3.009	19.4	20.0	101 W	69*	39
7 25	23 59.51	+26 44.1	2.504	2.991	18.8	19.8	109 W	72	37
8 4	23 57.72	+27 54.9	2.371	2.971	17.7	19.7	117 W	73	36
8 14	23 53.50	+28 49.0	2.248	2.951	16.3	19.5	125 W	74	35
8 24	23 46.89	+29 21.4	2.141	2.929	14.5	19.3	133 W	74	35
8 29	23 42.77	+29 27.8	2.094	2.917	13.6	19.2	137 W	74	35
9 3	23 38.19	+29 27.0	2.052	2.906	12.6	19.1	141 W	74	35
9 8	23 33.24	+29 18.4	2.015	2.894	11.7	19.0	144 W	74	35
9 13	23 28.03	+29 1.8	1.985	2.881	11.0	19.0	147 W	74	35
9 18	23 22.70	+28 37.4	1.960	2.869	10.4	18.9	149 E	74	35
9 23	23 17.38	+28 5.3	1.942	2.856	10.1	18.9	150 E	73	36
9 28	23 12.21	+27 26.2	1.930	2.843	10.1	18.8	150 E	72	37
10 3	23 7.31	+26 40.9	1.925	2.829	10.5	18.8	149 E	72	37
10 8	23 2.82	+25 50.4	1.926	2.815	11.2	18.9	147 E	71	38
10 13	22 58.85	+24 56.0	1.933	2.801	12.1	18.9	144 E	70	39
10 18	22 55.49	+23 59.0	1.947	2.787	13.2	18.9	140 E	69	40
10 23	22 52.78	+23 0.7	1.966	2.772	14.4	19.0	136 E	68	41
10 28	22 50.77	+22 2.4	1.990	2.757	15.5	19.0	132 E	67	42
11 2	22 49.49	+21 5.2	2.019	2.742	16.6	19.1	128 E	66	43
11 7	22 48.93	+20 10.1	2.052	2.726	17.7	19.2	123 E	65	44
11 12	22 49.09	+19 18.0	2.089	2.710	18.7	19.2	119 E	64	45
11 22	22 51.46	+17 45.3	2.172	2.677	20.3	19.3	110 E	63	46*
12 2	22 56.36	+16 30.2	2.263	2.643	21.4	19.4	102 E	62	46*
12 12	23 3.51	+15 34.3	2.359	2.607	22.1	19.5	93 E	61	43*
12 22	23 12.60	+14 57.5	2.455	2.571	22.4	19.6	85 E	60	39*
1 1	23 23.37	+14 38.6	2.550	2.533	22.3	19.6	78 E	59*	34*
1 11	23 35.61	+14 36.2	2.640	2.494	21.8	19.7	71 E	57*	29*
1 21	23 49.12	+14 48.4	2.723	2.454	21.1	19.7	64 E	54*	24*

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12 27	20 32.42	−12 11.3	2.613	1.861	16.5	21.3	33 E	21*	16*
1 6	20 54.25	− 9 55.4	2.632	1.829	14.8	21.2	28 E	20*	11*
1 16	21 16.45	− 7 27.9	2.644	1.797	13.2	21.2	25 E	18*	6*
1 26	21 39.02	− 4 49.0	2.649	1.768	11.7	21.1	21 E	15*	2*
2 5	22 1.96	− 1 59.5	2.648	1.739	10.2	21.0	18 E	12*	—
2 15	22 25.31	+ 0 59.4	2.642	1.713	9.0	20.9	16 E	9*	—
2 25	22 49.12	+ 4 6.3	2.633	1.689	8.1	20.8	14 E	6*	—
3 7	23 13.47	+ 7 19.3	2.621	1.668	7.5	20.7	13 E	4*	—
3 17	23 38.47	+10 36.0	2.608	1.649	7.3	20.7	12 W	4*	—
3 27	0 4.20	+13 53.5	2.593	1.633	7.5	20.7	12 W	5*	—
4 6	0 30.78	+17 8.7	2.580	1.620	7.9	20.7	13 W	7*	—
4 16	0 58.33	+20 18.0	2.567	1.610	8.5	20.7	14 W	8*	—
4 26	1 26.91	+23 17.5	2.555	1.603	9.2	20.7	15 W	9*	—
5 6	1 56.57	+26 3.1	2.546	1.600	10.0	20.7	16 W	10*	1*
5 16	2 27.29	+28 30.9	2.537	1.601	10.8	20.7	17 W	11*	2*
5 26	2 58.96	+30 37.0	2.531	1.605	11.7	20.8	19 W	12*	4*
6 5	3 31.39	+32 18.4	2.525	1.612	12.6	20.8	20 W	13*	5*
6 15	4 4.29	+33 32.8	2.519	1.623	13.6	20.8	22 W	14*	6*
6 25	4 37.26	+34 18.8	2.513	1.637	14.6	20.9	24 W	16*	7*
7 5	5 9.91	+34 36.4	2.506	1.654	15.6	20.9	26 W	18*	8*
7 15	5 41.83	+34 26.6	2.497	1.673	16.8	21.0	28 W	21*	9*
7 25	6 12.62	+33 51.4	2.484	1.695	18.0	21.1	31 W	23*	10*
8 4	6 42.02	+32 53.4	2.466	1.720	19.2	21.1	34 W	26*	11*
8 14	7 9.82	+31 35.6	2.444	1.747	20.5	21.2	37 W	30*	13*
8 24	7 35.88	+30 1.3	2.416	1.775	21.8	21.2	41 W	33*	15*
9 3	8 0.16	+28 13.6	2.381	1.806	23.1	21.3	45 W	37*	17*

247779 2003 *RU* *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 13	8 22.64	+26 15.2	2.338	1.837	24.3	21.3	49 W	41*	19*
9 23	8 43.30	+24 8.9	2.288	1.870	25.5	21.3	53 W	45*	22*
10 3	9 2.18	+21 56.8	2.231	1.904	26.5	21.3	58 W	49*	25*
10 13	9 19.24	+19 41.1	2.165	1.938	27.4	21.3	64 W	53*	29*
10 23	9 34.42	+17 23.5	2.093	1.973	28.1	21.3	69 W	56*	33*
11 2	9 47.66	+15 5.6	2.013	2.009	28.6	21.3	75 W	58*	37*
11 12	9 58.78	+12 48.9	1.929	2.045	28.7	21.2	82 W	58*	42*
11 22	10 7.58	+10 34.9	1.840	2.081	28.3	21.2	89 W	56	48*
12 2	10 13.80	+ 8 25.1	1.751	2.116	27.5	21.1	97 W	53	53*
12 12	10 17.10	+ 6 21.3	1.662	2.152	26.1	21.0	106 W	51	57*
12 22	10 17.17	+ 4 25.8	1.578	2.188	24.0	20.8	115 W	49	60
1 1	10 13.76	+ 2 41.1	1.503	2.223	21.1	20.7	125 W	48	61
1 11	10 6.80	+ 1 10.9	1.443	2.258	17.5	20.5	136 W	46	63
1 21	9 56.65	− 0 1.5	1.402	2.293	13.4	20.3	147 W	45	64

413563 2005 TG_{45}

12 27	20 32.64	− 4 45.4	1.437	0.867	42.1	19.7	36 E	28*	13*
1 6	21 7.89	− 2 20.5	1.389	0.820	44.1	19.6	35 E	28*	11*
1 16	21 44.28	− 0 0.1	1.322	0.759	47.5	19.4	35 E	28*	9*
1 26	22 22.33	+ 2 2.0	1.230	0.688	53.0	19.2	34 E	27*	8*
1 31	22 42.05	+ 2 48.3	1.175	0.648	57.0	19.1	33 E	27*	9*
2 5	23 2.14	+ 3 18.0	1.113	0.607	62.0	19.0	33 E	26*	9*
2 10	23 22.36	+ 3 23.1	1.044	0.565	68.3	18.9	32 E	25*	10*
2 15	23 42.18	+ 2 52.5	0.968	0.525	76.5	18.8	31 E	24*	11*
2 17	23 49.78	+ 2 27.0	0.936	0.509	80.4	18.8	31 E	23*	12*
2 19	23 57.05	+ 1 52.4	0.903	0.494	84.7	18.8	30 E	22*	12*
2 21	0 3.88	+ 1 7.5	0.870	0.480	89.4	18.9	29 E	21*	13*
2 23	0 10.12	+ 0 11.2	0.836	0.468	94.5	18.9	28 E	19*	13*
2 25	0 15.60	− 0 57.5	0.803	0.456	100.0	19.0	27 E	18*	13*
3 2	0 24.70	− 4 46.5	0.724	0.435	115.3	19.6	23 E	12*	14*
3 7	0 24.82	− 9 45.8	0.659	0.428	130.6	20.6	19 E	4*	13*
3 12	0 14.58	−15 3.0	0.620	0.435	140.2	21.6	16 E	—	9*
3 17	23 56.50	−19 14.3	0.609	0.456	137.7	21.4	18 E	—	4*
3 22	23 36.55	−21 20.4	0.623	0.487	127.2	20.5	23 W	—	10*
3 27	23 20.19	−21 22.2	0.654	0.524	115.3	19.8	28 W	—	18*
3 29	23 15.26	−20 55.8	0.668	0.541	110.9	19.6	30 W	—	21*
3 31	23 11.30	−20 17.8	0.683	0.557	106.8	19.5	32 W	—	23*
4 2	23 8.27	−19 30.3	0.699	0.574	103.0	19.4	34 W	—	26*
4 4	23 6.11	−18 35.4	0.715	0.590	99.6	19.3	36 W	—	28*
4 6	23 4.73	−17 34.7	0.730	0.607	96.4	19.3	37 W	—	30*
4 8	23 4.06	−16 29.5	0.746	0.624	93.6	19.3	38 W	—	31*
4 10	23 4.00	−15 20.8	0.760	0.640	90.9	19.3	40 W	—	33*
4 12	23 4.49	−14 9.4	0.775	0.656	88.5	19.2	41 W	1*	34*
4 14	23 5.46	−12 56.0	0.788	0.672	86.4	19.3	42 W	3*	36*
4 16	23 6.85	−11 41.0	0.801	0.688	84.4	19.3	43 W	4*	37*
4 21	23 11.83	− 8 29.3	0.831	0.725	80.2	19.3	45 W	8*	39*
4 26	23 18.51	− 5 14.1	0.856	0.759	76.8	19.3	47 W	11*	41*
5 1	23 26.49	− 1 57.5	0.876	0.791	74.1	19.4	49 W	14*	42*
5 6	23 35.52	+ 1 19.4	0.893	0.820	72.0	19.4	51 W	17*	43*
5 16	23 56.12	+ 7 52.1	0.917	0.867	69.0	19.5	53 W	22*	43*
5 26	0 19.85	+14 20.9	0.930	0.902	67.1	19.6	55 W	28*	41*
6 5	0 47.09	+20 42.8	0.934	0.925	66.2	19.6	56 W	33*	38*
6 10	1 2.26	+23 49.5	0.934	0.931	66.0	19.6	57 W	35*	35*
6 15	1 18.66	+26 51.8	0.933	0.935	65.9	19.6	57 W	38*	33*
6 20	1 36.48	+29 48.2	0.931	0.935	66.0	19.6	57 W	40*	31*
6 25	1 55.93	+32 36.5	0.929	0.932	66.2	19.6	57 W	42*	28*
6 30	2 17.23	+35 14.2	0.927	0.926	66.6	19.6	57 W	43*	26*
7 5	2 40.61	+37 38.1	0.925	0.916	67.0	19.6	56 W	44*	23*
7 10	3 6.24	+39 44.0	0.924	0.904	67.6	19.6	55 W	45*	21*
7 15	3 34.19	+41 27.2	0.923	0.888	68.2	19.6	54 W	45*	19*
7 20	4 4.39	+42 42.4	0.925	0.869	68.9	19.5	53 W	45*	16*
7 25	4 36.60	+43 24.3	0.927	0.847	69.7	19.5	51 W	44*	15*
7 30	5 10.31	+43 28.0	0.932	0.822	70.4	19.5	50 W	43*	13*
8 4	5 44.83	+42 49.7	0.940	0.794	71.1	19.5	48 W	41*	12*
8 6	5 58.70	+42 22.1	0.944	0.782	71.3	19.4	47 W	40*	11*
8 8	6 12.52	+41 47.4	0.949	0.769	71.5	19.4	46 W	40*	11*
8 10	6 26.26	+41 5.5	0.954	0.756	71.7	19.4	45 W	39*	11*
8 12	6 39.86	+40 16.6	0.959	0.742	71.8	19.4	44 W	38*	10*
8 14	6 53.30	+39 20.8	0.966	0.728	71.9	19.4	43 W	37*	10*
8 19	7 26.03	+36 31.7	0.985	0.691	71.9	19.3	40 W	34*	10*
8 24	7 57.37	+33 3.5	1.009	0.652	71.3	19.2	38 W	31*	9*
8 29	8 27.35	+29 0.3	1.039	0.611	70.0	19.1	35 W	28*	9*
9 3	8 56.26	+24 27.1	1.076	0.569	67.8	18.9	31 W	25*	9*
9 5	9 7.61	+22 30.6	1.092	0.553	66.5	18.8	30 W	23*	9*
9 7	9 18.90	+20 30.5	1.109	0.536	65.0	18.8	29 W	22*	9*

413563 2005 TG_{45} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 9	9 30.15	+18 27.3	1.127	0.520	63.3	18.7	27 W	20*	9*
9 11	9 41.40	+16 21.4	1.147	0.505	61.3	18.6	26 W	19*	9*
9 13	9 52.71	+14 13.3	1.167	0.490	59.0	18.5	25 W	17*	9*
9 15	10 4.09	+12 3.5	1.187	0.477	56.4	18.4	23 W	16*	9*
9 17	10 15.60	+ 9 52.6	1.209	0.464	53.6	18.3	22 W	14*	9*
9 19	10 27.27	+ 7 41.3	1.230	0.453	50.4	18.2	20 W	12*	9*
9 21	10 39.12	+ 5 30.3	1.252	0.444	47.0	18.1	19 W	10*	8*
9 23	10 51.18	+ 3 20.3	1.274	0.437	43.4	18.0	17 W	8*	8*
9 25	11 3.47	+ 1 12.3	1.296	0.431	39.7	17.9	16 W	7*	7*
9 27	11 15.98	− 0 52.9	1.317	0.428	35.9	17.8	15 W	5*	7*
9 29	11 28.70	− 2 54.4	1.338	0.428	32.1	17.7	13 W	3*	6*
10 1	11 41.63	− 4 51.5	1.358	0.430	28.5	17.7	12 W	1*	5*
10 3	11 54.74	− 6 43.4	1.377	0.434	25.1	17.6	11 W	—	4*
10 8	12 28.05	−10 56.6	1.419	0.454	18.4	17.6	8 W	—	2*
10 13	13 1.67	−14 27.9	1.457	0.484	15.2	17.7	7 W	—	—
10 18	13 35.08	−17 16.4	1.490	0.521	15.1	17.9	8 E	—	—
10 23	14 7.84	−19 24.4	1.521	0.561	16.5	18.1	9 E	—	2*
10 28	14 39.64	−20 55.9	1.550	0.603	18.0	18.4	11 E	—	4*
11 2	15 10.28	−21 55.5	1.578	0.644	19.2	18.6	12 E	—	6*
11 7	15 39.64	−22 27.9	1.606	0.684	20.0	18.8	14 E	—	8*
11 12	16 7.65	−22 37.3	1.633	0.721	20.5	19.0	15 E	—	9*
11 17	16 34.32	−22 27.3	1.659	0.756	20.8	19.1	16 E	2*	9*
11 22	16 59.70	−22 1.4	1.684	0.788	20.8	19.2	16 E	3*	9*
11 27	17 23.86	−21 22.1	1.708	0.817	20.7	19.3	17 E	5*	9*
12 2	17 46.91	−20 31.8	1.730	0.843	20.5	19.4	17 E	6*	9*
12 7	18 8.94	−19 32.3	1.750	0.865	20.3	19.5	18 E	8*	8*
12 12	18 30.07	−18 25.1	1.768	0.885	20.0	19.6	18 E	9*	7*
12 17	18 50.40	−17 11.3	1.784	0.901	19.8	19.6	18 E	10*	6*
12 22	19 10.04	−15 51.9	1.797	0.914	19.5	19.7	18 E	10*	5*
12 27	19 29.10	−14 27.7	1.807	0.924	19.3	19.7	18 E	11*	4*
1 1	19 47.68	−12 59.2	1.815	0.931	19.1	19.7	18 E	11*	2*
1 6	20 5.88	−11 26.8	1.819	0.934	19.0	19.7	18 E	12*	1*
1 11	20 23.78	− 9 51.1	1.820	0.935	18.9	19.7	18 E	12*	—
1 16	20 41.47	− 8 12.4	1.818	0.932	18.9	19.7	18 E	12*	—
1 21	20 59.04	− 6 31.1	1.813	0.926	19.0	19.7	18 E	12*	—

106521 2000 WC_{51}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 32.74	− 0 3.9	2.975	2.297	15.6	20.3	39 E	32*	11*
1 6	20 51.62	+ 0 32.8	3.009	2.265	14.1	20.3	34 E	28*	6*
1 16	21 11.02	+ 1 21.1	3.033	2.233	12.6	20.2	30 E	24*	1*
1 26	21 30.85	+ 2 20.0	3.048	2.200	11.1	20.1	25 E	19*	—
2 5	21 51.07	+ 3 28.7	3.054	2.167	9.6	20.0	22 E	14*	—
2 15	22 11.66	+ 4 46.0	3.051	2.134	8.3	19.9	18 E	10*	—
2 25	22 32.58	+ 6 10.7	3.038	2.101	7.2	19.9	15 E	5*	—
3 7	22 53.85	+ 7 41.2	3.018	2.067	6.5	19.8	14 W	6*	—
3 17	23 15.49	+ 9 16.2	2.990	2.034	6.4	19.7	13 W	7*	—
3 27	23 37.52	+10 53.9	2.954	2.001	7.0	19.7	14 W	8*	—
4 6	23 59.98	+12 32.4	2.911	1.968	8.0	19.7	16 W	9*	4*
4 16	0 22.93	+14 10.1	2.862	1.936	9.4	19.6	18 W	9*	8*
4 26	0 46.39	+15 44.6	2.807	1.904	11.0	19.6	21 W	10*	12*
5 6	1 10.43	+17 14.0	2.747	1.873	12.8	19.6	24 W	11*	15*
5 16	1 35.09	+18 35.9	2.682	1.844	14.6	19.6	27 W	12*	18*
5 26	2 0.36	+19 48.0	2.613	1.815	16.5	19.6	31 W	14*	21*
6 5	2 26.27	+20 47.7	2.540	1.788	18.4	19.5	34 W	15*	23*
6 15	2 52.78	+21 32.6	2.464	1.762	20.3	19.5	37 W	18*	25*
6 25	3 19.81	+22 0.2	2.385	1.738	22.2	19.5	40 W	20*	27*
7 5	3 47.27	+22 8.2	2.305	1.716	24.0	19.4	43 W	24*	29*
7 15	4 15.00	+21 54.5	2.224	1.696	25.8	19.4	47 W	27*	31*
7 25	4 42.82	+21 17.2	2.142	1.679	27.6	19.3	50 W	31*	33*
8 4	5 10.51	+20 15.1	2.060	1.664	29.2	19.3	53 W	34*	34*
8 14	5 37.86	+18 47.4	1.979	1.652	30.8	19.2	57 W	38*	36*
8 24	6 4.61	+16 54.0	1.898	1.643	32.2	19.1	60 W	41*	38*
9 3	6 30.58	+14 35.4	1.820	1.637	33.4	19.1	63 W	43*	41*
9 13	6 55.54	+11 52.7	1.744	1.634	34.5	19.0	67 W	45*	43*
9 23	7 19.29	+ 8 48.0	1.671	1.634	35.3	18.9	70 W	46*	47*
10 3	7 41.70	+ 5 23.7	1.601	1.637	36.0	18.9	74 W	46*	50*
10 13	8 2.57	+ 1 42.8	1.534	1.643	36.4	18.8	78 W	45*	54*
10 23	8 21.72	− 2 11.0	1.470	1.652	36.6	18.7	82 W	43*	59*
11 2	8 38.99	− 6 13.8	1.410	1.664	36.5	18.6	86 W	39	64*
11 7	8 46.82	− 8 17.1	1.381	1.671	36.3	18.6	88 W	37	67*
11 12	8 54.09	−10 20.8	1.353	1.679	36.1	18.6	90 W	35	70*
11 17	9 0.74	−12 24.3	1.326	1.688	35.8	18.5	92 W	33	74*
11 22	9 6.76	−14 26.8	1.299	1.697	35.5	18.5	95 W	31	77*
11 27	9 12.08	−16 27.6	1.274	1.706	35.0	18.4	97 W	29	80*
12 2	9 16.66	−18 25.9	1.250	1.716	34.5	18.4	100 W	27	82
12 7	9 20.44	−20 20.7	1.226	1.727	33.9	18.3	102 W	25	84
12 12	9 23.37	−22 10.9	1.204	1.738	33.2	18.3	105 W	23	86
12 17	9 25.42	−23 55.4	1.183	1.750	32.5	18.3	107 W	21	88
12 22	9 26.56	−25 32.9	1.163	1.762	31.6	18.2	110 W	19	90
12 27	9 26.74	−27 2.4	1.145	1.775	30.7	18.2	113 W	18	89
1 1	9 25.96	−28 22.2	1.128	1.788	29.8	18.1	116 W	17	88

106521 2000 WC_{51} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 6	9 24.23	−29 30.8	1.114	1.801	28.7	18.1	118 W	15	86
1 11	9 21.62	−30 26.8	1.101	1.815	27.7	18.0	121 W	15	86
1 16	9 18.22	−31 8.7	1.091	1.829	26.6	18.0	124 W	14	85
1 21	9 14.17	−31 35.6	1.083	1.844	25.5	18.0	126 W	13	84

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 32.92	−19 30.1	2.660	1.878	15.3	21.2	30 E	15*	19*
1 6	20 55.03	−17 56.1	2.657	1.820	13.5	21.1	26 E	13*	14*
1 16	21 17.85	−16 7.9	2.643	1.761	11.6	20.9	21 E	11*	10*
1 26	21 41.34	−14 5.4	2.618	1.701	9.7	20.8	17 E	8*	6*
2 5	22 5.52	−11 48.3	2.585	1.641	7.8	20.6	13 E	6*	3*
2 15	22 30.44	− 9 16.6	2.545	1.580	6.0	20.4	10 E	3*	—
2 25	22 56.18	− 6 31.0	2.498	1.519	4.2	20.2	6 E	—	—
3 7	23 22.85	− 3 32.1	2.447	1.459	2.6	19.9	4 E	—	—
3 17	23 50.63	− 0 21.4	2.394	1.400	1.1	19.7	2 E	—	—
3 27	0 19.70	+ 2 58.9	2.340	1.342	0.7	19.5	1 W	—	—
4 6	0 50.29	+ 6 25.6	2.288	1.288	1.8	19.5	2 W	—	—
4 16	1 22.65	+ 9 54.3	2.239	1.238	2.7	19.4	3 W	—	—
4 21	1 39.56	+11 37.6	2.216	1.215	3.1	19.4	4 W	—	—
4 26	1 57.00	+13 19.1	2.196	1.194	3.4	19.3	4 W	—	—
5 1	2 14.98	+14 57.8	2.177	1.174	3.6	19.3	4 W	—	—
5 6	2 33.51	+16 32.7	2.160	1.156	3.8	19.2	4 W	—	—
5 11	2 52.61	+18 2.6	2.145	1.140	3.9	19.2	4 W	—	—
5 16	3 12.26	+19 26.4	2.132	1.127	4.0	19.2	4 W	—	—
5 21	3 32.42	+20 42.9	2.122	1.115	3.9	19.1	4 W	—	—
5 26	3 53.06	+21 51.1	2.114	1.107	3.9	19.1	4 W	—	—
5 31	4 14.12	+22 49.8	2.109	1.100	3.8	19.1	4 W	—	—
6 5	4 35.52	+23 38.2	2.107	1.097	3.6	19.1	4 W	—	—
6 10	4 57.17	+24 15.6	2.107	1.096	3.4	19.1	4 W	—	—
6 15	5 18.95	+24 41.4	2.110	1.098	3.3	19.0	4 W	—	—
6 20	5 40.75	+24 55.4	2.116	1.103	3.1	19.1	3 W	—	—
6 25	6 2.44	+24 57.6	2.124	1.110	2.9	19.1	3 W	—	—
6 30	6 23.92	+24 48.2	2.134	1.120	2.8	19.1	3 W	—	—
7 5	6 45.07	+24 27.7	2.147	1.133	2.7	19.1	3 W	—	—
7 10	7 5.81	+23 56.8	2.161	1.147	2.7	19.2	3 W	—	—
7 15	7 26.06	+23 16.4	2.178	1.164	2.7	19.2	3 W	—	—
7 20	7 45.74	+22 27.3	2.196	1.183	2.7	19.3	3 W	—	—
7 25	8 4.82	+21 30.5	2.216	1.204	2.8	19.3	3 W	—	—
7 30	8 23.29	+20 27.2	2.237	1.226	3.0	19.4	4 W	—	—
8 4	8 41.12	+19 18.2	2.259	1.249	3.3	19.5	4 W	—	—
8 9	8 58.33	+18 4.6	2.282	1.274	3.6	19.6	5 W	—	—
8 14	9 14.92	+16 47.1	2.306	1.300	4.0	19.7	5 W	—	—
8 19	9 30.92	+15 26.8	2.330	1.327	4.5	19.7	6 W	—	—
8 24	9 46.35	+14 4.2	2.354	1.355	5.0	19.8	7 W	—	—
9 3	10 15.61	+11 15.1	2.402	1.413	6.2	20.0	9 W	2*	—
9 13	10 42.98	+ 8 24.0	2.447	1.472	7.5	20.2	11 W	4*	1*
9 23	11 8.67	+ 5 34.5	2.488	1.533	9.0	20.4	14 W	7*	3*
10 3	11 32.93	+ 2 48.9	2.523	1.594	10.6	20.6	17 W	10*	5*
10 13	11 55.94	+ 0 8.9	2.551	1.654	12.2	20.8	21 W	13*	8*
10 23	12 17.84	− 2 23.9	2.570	1.715	13.9	20.9	24 W	16*	10*
11 2	12 38.75	− 4 48.7	2.580	1.775	15.6	21.1	29 W	19*	14*
11 12	12 58.75	− 7 4.9	2.579	1.833	17.2	21.2	33 W	22*	18*
11 22	13 17.87	− 9 11.9	2.566	1.891	18.8	21.3	38 W	25*	22*
12 2	13 36.11	−11 9.4	2.542	1.947	20.4	21.4	43 W	27*	27*
12 12	13 53.44	−12 57.1	2.505	2.002	21.8	21.5	49 W	28*	33*

106589 2000 WN_{107}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 33.57	−13 55.2	3.406	2.626	11.5	21.4	32 E	20*	17*
1 6	20 49.38	−13 15.2	3.530	2.680	9.2	21.4	26 E	16*	11*
1 16	21 4.85	−12 29.4	3.639	2.732	6.9	21.4	20 E	12*	6*
1 26	21 19.93	−11 38.6	3.731	2.782	4.7	21.4	13 E	7*	1*
2 5	21 34.60	−10 43.9	3.805	2.830	2.5	21.3	7 E	1*	—
2 15	21 48.84	− 9 46.2	3.861	2.876	1.1	21.3	3 W	—	—
2 25	22 2.62	− 8 46.4	3.899	2.920	2.5	21.5	7 W	—	—

333305 2000 VB_{35}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 33.66	−12 50.9	3.187	2.417	12.7	21.5	33 E	21*	17*
1 6	20 51.53	−11 49.8	3.210	2.376	10.8	21.4	27 E	18*	11*
1 16	21 9.89	−10 39.0	3.221	2.335	8.9	21.3	22 E	14*	6*
1 26	21 28.69	− 9 18.5	3.221	2.293	7.0	21.2	16 E	10*	1*
2 5	21 47.86	− 7 49.0	3.209	2.252	5.0	21.0	12 E	6*	—
2 15	22 7.39	− 6 10.8	3.187	2.211	3.3	20.9	7 E	1*	—
2 25	22 27.24	− 4 24.7	3.154	2.170	2.3	20.7	5 W	—	—
3 7	22 47.42	− 2 31.5	3.112	2.129	2.9	20.7	6 W	—	—
3 17	23 7.97	− 0 32.2	3.062	2.088	4.6	20.7	10 W	1*	2*
3 27	23 28.89	+ 1 32.1	3.005	2.048	6.6	20.7	14 W	3*	7*
4 6	23 50.24	+ 3 40.2	2.941	2.009	8.6	20.7	17 W	4*	11*
4 16	0 12.08	+ 5 50.8	2.872	1.970	10.6	20.7	21 W	6*	14*
4 26	0 34.46	+ 8 2.2	2.798	1.933	12.7	20.7	25 W	7*	18*
5 6	0 57.46	+10 12.7	2.722	1.897	14.7	20.7	28 W	9*	21*

333305 2000 VB_{35} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 16	1 21.15	+12 20.3	2.643	1.862	16.7	20.7	32 W	10*	24*
5 26	1 45.57	+14 22.9	2.562	1.830	18.6	20.6	35 W	12*	27*
6 5	2 10.78	+16 18.2	2.481	1.799	20.5	20.6	38 W	15*	29*
6 15	2 36.80	+18 3.6	2.400	1.771	22.3	20.5	41 W	18*	31*
6 25	3 3.59	+19 36.5	2.319	1.745	24.1	20.5	44 W	22*	32*
7 5	3 31.10	+20 54.5	2.240	1.722	25.7	20.4	47 W	26*	33*
7 15	3 59.22	+21 55.0	2.162	1.702	27.3	20.4	50 W	30*	33*
7 25	4 27.74	+22 36.0	2.085	1.686	28.8	20.3	53 W	34*	34*
8 4	4 56.44	+22 55.9	2.010	1.673	30.2	20.2	56 W	38*	34*
8 14	5 25.05	+22 53.8	1.937	1.664	31.5	20.2	59 W	43*	34*
8 24	5 53.22	+22 29.7	1.865	1.658	32.7	20.1	62 W	46*	35*
9 3	6 20.67	+21 44.3	1.794	1.656	33.7	20.1	66 W	50*	36*
9 13	6 47.06	+20 39.2	1.724	1.658	34.5	20.0	69 W	53*	37*
9 23	7 12.08	+19 16.5	1.655	1.665	35.2	19.9	73 W	56*	39*
10 3	7 35.50	+17 39.2	1.586	1.674	35.6	19.9	77 W	58*	41*
10 13	7 57.04	+15 50.5	1.518	1.688	35.8	19.8	81 W	59*	43*
10 23	8 16.44	+13 54.0	1.449	1.705	35.6	19.7	86 W	59*	46*
11 2	8 33.47	+11 53.5	1.381	1.725	35.1	19.6	92 W	57	49*
11 12	8 47.81	+ 9 53.1	1.313	1.748	34.1	19.5	98 W	55	53*
11 22	8 59.15	+ 7 57.1	1.247	1.774	32.6	19.4	105 W	53	56*
12 2	9 7.15	+ 6 10.2	1.185	1.803	30.5	19.3	112 W	51	58
12 12	9 11.45	+ 4 37.6	1.128	1.834	27.6	19.1	120 W	50	59
12 17	9 12.14	+ 3 58.3	1.102	1.850	25.9	19.0	125 W	49	60
12 22	9 11.86	+ 3 24.7	1.079	1.867	24.0	18.9	130 W	48	61
12 27	9 10.60	+ 2 57.3	1.059	1.884	21.8	18.9	135 W	48	61
1 1	9 8.40	+ 2 36.7	1.043	1.902	19.6	18.8	140 W	48	61
1 6	9 5.34	+ 2 23.4	1.030	1.920	17.2	18.7	145 W	47	62
1 11	9 1.55	+ 2 17.6	1.022	1.938	14.7	18.6	150 W	47	62
1 16	8 57.17	+ 2 19.2	1.020	1.956	12.2	18.5	155 W	47	62
1 21	8 52.40	+ 2 28.0	1.022	1.975	9.9	18.5	160 W	47	62

439437 2013 NK_4

12 27	20 33.91	−18 6.9	0.792	0.507	95.9	20.2	31 E	16*	19*
12 29	20 35.60	−17 29.9	0.755	0.493	101.9	20.3	29 E	16*	17*
12 31	20 36.12	−16 54.7	0.718	0.481	108.6	20.5	28 E	15*	15*
1 2	20 35.28	−16 22.2	0.681	0.472	115.9	20.8	26 E	15*	13*
1 4	20 32.86	−15 53.4	0.646	0.465	123.7	21.2	23 E	13*	11*

275545 1998 UN_1

12 27	20 34.83	− 0 0.5	1.801	1.215	31.0	21.1	39 E	32*	12*
1 6	21 13.06	+ 0 57.0	1.841	1.234	29.7	21.2	39 E	31*	11*
1 16	21 50.37	+ 2 1.1	1.891	1.257	28.2	21.2	37 E	30*	10*
1 26	22 26.51	+ 3 9.5	1.950	1.282	26.5	21.3	35 E	29*	9*
2 5	23 1.36	+ 4 19.6	2.015	1.309	24.5	21.3	33 E	27*	9*
2 15	23 34.89	+ 5 29.5	2.084	1.338	22.4	21.4	31 E	25*	8*
2 25	0 7.17	+ 6 37.1	2.155	1.368	20.1	21.5	28 E	22*	8*
3 7	0 38.27	+ 7 40.6	2.227	1.400	17.9	21.5	26 E	19*	8*

494219 2016 LN_8

12 27	20 36.28	−45 7.6	6.772	5.989	5.4	21.2	35 E	—	27*
1 6	20 46.49	−44 42.2	6.819	5.988	4.7	21.2	30 E	—	22*
1 16	20 57.00	−44 18.4	6.846	5.986	4.3	21.1	27 E	—	17*
1 26	21 7.71	−43 56.7	6.852	5.984	4.2	21.1	26 E	—	12*
2 5	21 18.50	−43 37.5	6.838	5.983	4.4	21.1	28 E	—	8*
2 15	21 29.28	−43 21.5	6.805	5.981	4.9	21.2	31 W	—	13*
2 25	21 39.97	−43 9.2	6.753	5.979	5.6	21.2	36 W	—	19*
3 7	21 50.48	−43 1.4	6.684	5.977	6.3	21.2	42 W	—	25*
3 17	22 0.73	−42 58.7	6.598	5.975	7.1	21.2	48 W	—	31*
3 27	22 10.63	−43 1.8	6.499	5.973	7.8	21.2	54 W	—	37*
4 6	22 20.11	−43 11.5	6.387	5.971	8.4	21.2	61 W	—	43*
4 16	22 29.06	−43 28.4	6.266	5.969	9.0	21.2	68 W	—	50*
4 26	22 37.40	−43 53.2	6.139	5.967	9.4	21.1	75 W	—	56*
5 6	22 45.02	−44 26.2	6.008	5.964	9.7	21.1	83 W	—	61*
5 16	22 51.81	−45 7.7	5.875	5.962	9.8	21.1	90 W	—	66*
5 26	22 57.63	−45 57.8	5.746	5.960	9.7	21.0	97 W	—	69*
6 5	23 2.36	−46 55.9	5.622	5.958	9.5	21.0	105 W	—	69
6 15	23 5.85	−48 1.2	5.507	5.955	9.1	20.9	112 W	—	68
6 25	23 7.95	−49 12.1	5.405	5.953	8.7	20.8	118 W	—	67
7 5	23 8.56	−50 26.6	5.317	5.951	8.1	20.8	124 W	—	66
7 15	23 7.56	−51 41.9	5.248	5.948	7.6	20.7	130 W	—	64
7 25	23 4.94	−52 54.8	5.198	5.946	7.1	20.7	134 W	—	63
8 4	23 0.79	−54 1.6	5.170	5.943	6.8	20.6	136 W	—	62
8 14	22 55.31	−54 59.0	5.164	5.940	6.7	20.6	137 W	—	61
8 24	22 48.85	−55 43.6	5.181	5.938	6.9	20.7	135 W	—	60
9 3	22 41.88	−56 13.4	5.219	5.935	7.3	20.7	131 E	—	60
9 13	22 34.97	−56 27.1	5.278	5.933	7.8	20.7	127 E	—	60
9 23	22 28.68	−56 24.7	5.354	5.930	8.4	20.8	121 E	—	60
10 3	22 23.49	−56 7.3	5.446	5.927	8.9	20.8	114 E	—	60
10 13	22 19.74	−55 36.5	5.549	5.924	9.3	20.9	107 E	—	60
10 23	22 17.67	−54 54.6	5.662	5.921	9.5	21.0	100 E	—	61
11 2	22 17.31	−54 3.9	5.780	5.919	9.6	21.0	93 E	—	62

494219 2016 LN_8 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 12	22 18.65	−53 6.3	5.901	5.916	9.6	21.0	86 E	—	63
11 22	22 21.56	−52 3.8	6.021	5.913	9.4	21.1	79 E	—	63*
12 2	22 25.89	−50 58.0	6.136	5.910	9.1	21.1	72 E	—	61*
12 12	22 31.46	−49 50.2	6.246	5.907	8.7	21.1	66 E	—	56*
12 22	22 38.10	−48 41.5	6.346	5.904	8.2	21.1	59 E	—	51*
1 1	22 45.63	−47 32.9	6.434	5.901	7.7	21.1	53 E	—	46*
1 11	22 53.91	−46 25.1	6.510	5.897	7.1	21.1	48 E	—	41*
1 21	23 2.78	−45 19.0	6.571	5.894	6.6	21.1	43 E	—	36*

71997 2000 WD_{178}

12 27	20 37.47	−22 59.2	2.401	1.635	17.9	19.8	31 E	12*	22*
1 6	21 6.69	−21 11.7	2.428	1.622	16.3	19.8	28 E	12*	18*
1 16	21 35.61	−19 5.9	2.455	1.613	14.7	19.7	25 E	11*	15*
1 26	22 4.11	−16 44.1	2.481	1.608	13.1	19.7	22 E	10*	12*
2 5	22 32.12	−14 9.3	2.507	1.606	11.5	19.6	19 E	8*	10*
2 15	22 59.62	−11 24.2	2.532	1.607	9.8	19.6	16 E	6*	8*
2 25	23 26.63	− 8 32.1	2.558	1.611	8.2	19.5	13 E	4*	6*
3 7	23 53.17	− 5 36.3	2.583	1.619	6.6	19.5	11 E	1*	4*
3 17	0 19.32	− 2 39.5	2.609	1.631	5.0	19.5	8 E	—	2*
3 27	0 45.12	+ 0 15.3	2.634	1.645	3.6	19.4	6 E	—	—
4 6	1 10.65	+ 3 5.5	2.659	1.662	2.6	19.4	4 E	—	—
4 16	1 35.95	+ 5 48.7	2.682	1.682	2.5	19.4	4 W	—	—
4 26	2 1.07	+ 8 23.0	2.703	1.705	3.5	19.6	6 W	—	—
5 6	2 26.02	+10 46.5	2.721	1.730	4.9	19.7	8 W	—	2*
5 16	2 50.84	+12 58.0	2.736	1.757	6.5	19.8	11 W	—	5*
5 26	3 15.49	+14 56.4	2.748	1.785	8.2	19.9	15 W	—	9*
6 5	3 39.95	+16 40.8	2.754	1.815	9.9	20.0	18 W	—	12*
6 15	4 4.17	+18 10.9	2.755	1.847	11.6	20.1	21 W	3*	15*
6 25	4 28.07	+19 26.7	2.750	1.880	13.3	20.2	25 W	7*	17*
7 5	4 51.58	+20 28.2	2.738	1.913	14.9	20.3	29 W	11*	20*
7 15	5 14.59	+21 16.2	2.719	1.948	16.5	20.4	33 W	16*	22*
7 25	5 36.99	+21 51.3	2.692	1.983	18.1	20.5	37 W	21*	24*
8 4	5 58.68	+22 14.7	2.656	2.018	19.6	20.5	42 W	27*	26*
8 14	6 19.53	+22 27.7	2.612	2.053	21.0	20.6	47 W	33*	27*
8 24	6 39.42	+22 31.8	2.560	2.089	22.3	20.6	52 W	38*	29*
9 3	6 58.24	+22 28.9	2.498	2.125	23.5	20.6	57 W	44*	31*
9 13	7 15.82	+22 21.0	2.429	2.160	24.4	20.6	63 W	50*	32*
9 23	7 32.03	+22 10.2	2.352	2.196	25.2	20.6	69 W	56*	34*
10 3	7 46.69	+21 58.8	2.267	2.231	25.7	20.6	75 W	61*	36*
10 13	7 59.59	+21 49.5	2.177	2.265	25.9	20.5	82 W	65*	37*
10 23	8 10.49	+21 44.9	2.083	2.299	25.6	20.5	89 W	67*	39*
11 2	8 19.12	+21 47.7	1.986	2.333	24.9	20.4	97 W	67	41*
11 12	8 25.14	+22 0.5	1.891	2.366	23.7	20.3	106 W	67	42*
11 22	8 28.21	+22 25.5	1.800	2.399	21.8	20.1	116 W	67	42
12 2	8 28.03	+23 3.7	1.717	2.430	19.2	20.0	126 W	68	41
12 12	8 24.39	+23 54.5	1.648	2.462	15.8	19.8	137 W	69	40
12 22	8 17.40	+24 54.7	1.598	2.492	11.8	19.6	149 W	70	39
12 27	8 12.78	+25 26.6	1.582	2.507	9.6	19.5	155 W	70	39
1 1	8 7.54	+25 58.6	1.572	2.521	7.3	19.4	161 W	71	38
1 6	8 1.83	+26 29.7	1.569	2.536	5.1	19.3	167 W	71	38
1 11	7 55.81	+26 58.9	1.573	2.550	3.1	19.2	172 W	72	37
1 16	7 49.67	+27 25.6	1.584	2.564	2.4	19.2	174 E	72	37
1 21	7 43.61	+27 49.0	1.604	2.578	3.8	19.3	170 E	73	36

401824 1998 QG_{71}

12 27	20 37.77	−16 18.0	2.389	1.643	18.6	21.3	32 E	18*	19*
1 6	21 5.25	−14 4.6	2.443	1.655	16.8	21.3	29 E	18*	15*
1 16	21 32.06	−11 40.0	2.497	1.668	14.9	21.3	26 E	17*	11*
1 26	21 58.18	− 9 6.7	2.549	1.684	13.0	21.3	23 E	15*	8*
2 5	22 23.63	− 6 27.0	2.600	1.702	11.1	21.3	19 E	13*	5*
2 15	22 48.49	− 3 43.4	2.649	1.723	9.2	21.3	16 E	10*	2*
2 25	23 12.79	− 0 58.0	2.695	1.745	7.3	21.3	13 E	7*	—
3 7	23 36.62	+ 1 47.0	2.738	1.768	5.5	21.3	10 E	4*	—
3 17	0 0.06	+ 4 29.8	2.777	1.793	3.8	21.2	7 E	1*	—
3 27	0 23.16	+ 7 8.7	2.812	1.819	2.6	21.2	5 E	—	—
4 6	0 45.98	+ 9 42.2	2.842	1.847	2.6	21.3	5 W	—	—
4 16	1 8.60	+12 9.1	2.867	1.875	3.8	21.4	7 W	—	—

167785 2005 AT_{31}

12 27	20 37.81	−22 27.8	2.434	1.668	17.6	20.6	31 E	13*	22*
1 6	21 6.69	−21 9.4	2.469	1.662	15.9	20.5	28 E	12*	18*
1 16	21 35.34	−19 32.8	2.502	1.657	14.2	20.5	24 E	11*	15*
1 26	22 3.61	−17 40.3	2.533	1.656	12.6	20.5	21 E	9*	13*
2 5	22 31.41	−15 34.5	2.563	1.658	10.9	20.4	19 E	7*	10*
2 15	22 58.73	−13 18.0	2.591	1.662	9.3	20.4	16 E	5*	8*
2 25	23 25.53	−10 53.9	2.618	1.670	7.8	20.4	13 E	2*	6*
3 7	23 51.84	− 8 25.0	2.644	1.680	6.4	20.3	11 E	—	5*
3 17	0 17.71	− 5 53.9	2.668	1.693	5.3	20.3	9 E	—	3*
3 27	0 43.16	− 3 23.6	2.691	1.708	4.5	20.3	8 E	—	1*
4 6	1 8.24	− 0 56.3	2.712	1.725	4.4	20.3	8 E	—	—
4 16	1 33.01	+ 1 25.8	2.731	1.745	4.9	20.4	9 W	—	—

167785 2005 AT_{31} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 26	1 57.47	+ 3 40.6	2.747	1.767	6.0	20.5	11 W	—	2*
5 6	2 21.67	+ 5 46.6	2.759	1.791	7.3	20.6	13 W	—	5*
5 16	2 45.61	+ 7 42.4	2.768	1.816	8.7	20.7	16 W	—	9*
5 26	3 9.27	+ 9 26.8	2.772	1.842	10.2	20.8	19 W	—	13*
6 5	3 32.62	+10 59.1	2.770	1.870	11.8	20.9	22 W	—	16*
6 15	3 55.64	+12 18.9	2.763	1.899	13.4	21.0	26 W	—	20*
6 25	4 18.25	+13 25.7	2.750	1.929	14.9	21.1	29 W	4*	23*
7 5	4 40.39	+14 19.9	2.729	1.959	16.5	21.1	33 W	9*	26*
7 15	5 1.98	+15 1.6	2.701	1.990	18.0	21.2	37 W	14*	28*
7 25	5 22.91	+15 31.4	2.665	2.021	19.5	21.2	42 W	20*	31*
8 4	5 43.09	+15 50.3	2.621	2.053	20.9	21.3	46 W	25*	33*
8 14	6 2.41	+15 59.3	2.569	2.085	22.2	21.3	51 W	31*	35*
8 24	6 20.74	+15 59.6	2.508	2.117	23.3	21.3	56 W	37*	37*
9 3	6 37.95	+15 52.8	2.439	2.149	24.4	21.3	61 W	43*	39*
9 13	6 53.89	+15 40.5	2.362	2.180	25.2	21.3	67 W	48*	41*
9 23	7 8.37	+15 24.8	2.278	2.212	25.8	21.3	73 W	53*	43*
10 3	7 21.23	+15 7.8	2.188	2.243	26.1	21.2	80 W	57*	45*
10 13	7 32.20	+14 51.9	2.093	2.274	26.0	21.2	87 W	59*	46*
10 23	7 41.01	+14 39.9	1.995	2.304	25.5	21.1	95 W	60	48*
11 2	7 47.38	+14 34.6	1.897	2.334	24.4	21.0	103 W	60	49*
11 12	7 50.96	+14 38.8	1.802	2.364	22.8	20.8	112 W	60	49
11 22	7 51.46	+14 55.4	1.713	2.393	20.4	20.7	122 W	60	49
12 2	7 48.68	+15 26.0	1.637	2.421	17.3	20.5	133 W	60	49
12 12	7 42.62	+16 11.2	1.577	2.448	13.4	20.3	145 W	61	48
12 22	7 33.70	+17 9.0	1.539	2.475	8.9	20.1	157 W	62	47
12 27	7 28.40	+17 41.5	1.529	2.488	6.4	20.0	164 W	63	46
1 1	7 22.73	+18 15.3	1.527	2.501	4.0	19.9	170 W	63	46
1 6	7 16.86	+18 49.9	1.532	2.514	1.7	19.7	176 W	64	45
1 11	7 10.97	+19 24.4	1.545	2.527	1.9	19.8	175 E	64	45
1 16	7 5.25	+19 58.2	1.565	2.539	4.1	20.0	169 E	65	44
1 21	6 59.86	+20 30.8	1.593	2.551	6.4	20.1	163 E	66	43

2744 Birgitta

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 38.56	−17 33.1	2.347	1.601	19.0	18.5	32 E	17*	20*
1 6	21 6.42	−15 14.6	2.368	1.581	17.5	18.5	29 E	17*	16*
1 16	21 34.22	−12 40.5	2.388	1.564	16.0	18.4	26 E	16*	12*
1 26	22 1.90	− 9 52.7	2.407	1.551	14.5	18.4	23 E	15*	9*
2 5	22 29.43	− 6 54.0	2.427	1.542	13.0	18.3	21 E	13*	6*
2 15	22 56.83	− 3 47.2	2.447	1.538	11.4	18.3	18 E	11*	4*
2 25	23 24.13	− 0 35.3	2.468	1.537	9.9	18.2	16 E	9*	2*
3 7	23 51.36	+ 2 38.2	2.490	1.540	8.4	18.2	13 E	7*	—
3 17	0 18.61	+ 5 50.2	2.514	1.548	6.9	18.2	11 E	5*	—
3 27	0 45.91	+ 8 57.4	2.539	1.560	5.5	18.1	9 E	3*	—
4 6	1 13.32	+11 56.7	2.565	1.575	4.2	18.1	7 E	—	—
4 16	1 40.88	+14 45.3	2.591	1.594	3.1	18.1	5 E	—	—
4 26	2 8.59	+17 20.7	2.618	1.616	2.6	18.1	4 W	—	—
5 6	2 36.44	+19 40.7	2.644	1.641	3.0	18.2	5 W	—	—
5 16	3 4.38	+21 43.7	2.669	1.669	4.1	18.3	7 W	—	—
5 26	3 32.33	+23 28.4	2.692	1.700	5.5	18.4	9 W	1*	1*
6 5	4 0.17	+24 54.0	2.711	1.732	7.0	18.6	12 W	3*	3*
6 15	4 27.78	+26 0.4	2.727	1.766	8.6	18.7	15 W	5*	6*
6 25	4 54.99	+26 47.7	2.738	1.802	10.2	18.8	18 W	8*	8*
7 5	5 21.65	+27 16.6	2.744	1.839	11.9	18.9	22 W	11*	10*
7 15	5 47.60	+27 28.4	2.743	1.877	13.5	19.0	26 W	15*	12*
7 25	6 12.69	+27 24.4	2.735	1.916	15.1	19.1	29 W	19*	14*
8 4	6 36.80	+27 6.3	2.719	1.955	16.7	19.2	34 W	24*	16*
8 14	6 59.81	+26 35.9	2.694	1.995	18.2	19.3	38 W	28*	18*
8 24	7 21.61	+25 55.4	2.661	2.035	19.6	19.4	43 W	33*	20*
9 3	7 42.15	+25 6.6	2.618	2.075	21.0	19.4	48 W	38*	22*
9 13	8 1.34	+24 11.8	2.567	2.115	22.3	19.4	53 W	43*	24*
9 23	8 19.09	+23 13.0	2.506	2.154	23.3	19.5	58 W	49*	26*
10 3	8 35.32	+22 12.3	2.436	2.194	24.2	19.5	64 W	54*	29*
10 13	8 49.91	+21 11.9	2.358	2.233	24.9	19.5	71 W	58*	32*
10 23	9 2.72	+20 14.1	2.272	2.271	25.3	19.4	77 W	62*	35*
11 2	9 13.57	+19 20.8	2.181	2.309	25.3	19.4	85 W	64*	38*
11 12	9 22.22	+18 34.4	2.087	2.346	24.9	19.3	92 W	64	42*
11 22	9 28.42	+17 57.1	1.990	2.383	24.0	19.2	101 W	63	44*
12 2	9 31.88	+17 30.8	1.896	2.419	22.5	19.1	110 W	63	46*
12 12	9 32.30	+17 16.9	1.808	2.454	20.3	18.9	120 W	62	47
12 22	9 29.50	+17 16.0	1.731	2.488	17.4	18.8	131 W	62	47
1 1	9 23.47	+17 27.2	1.670	2.521	13.8	18.6	142 W	62	47
1 11	9 14.55	+17 47.7	1.630	2.554	9.5	18.4	155 W	63	46
1 21	9 3.52	+18 13.2	1.616	2.585	4.7	18.2	168 W	63	46

194268 2001 UY_4

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 39.37	−19 38.4	1.158	0.609	58.1	19.5	32 E	16*	21*
1 1	21 19.87	−17 26.5	1.172	0.698	56.9	19.8	37 E	19*	24*
1 6	21 56.23	−14 58.7	1.204	0.785	54.4	20.1	40 E	23*	27*
1 11	22 28.63	−12 25.6	1.251	0.867	51.5	20.3	44 E	26*	29*
1 16	22 57.42	− 9 54.5	1.310	0.946	48.5	20.5	46 E	29*	30*
1 21	23 23.05	− 7 30.1	1.378	1.022	45.5	20.7	48 E	31*	30*

194268 2001 UY_4 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 26	23 45.97	− 5 14.8	1.454	1.094	42.6	20.9	49 E	33*	30*
1 31	0 6.61	− 3 9.5	1.535	1.164	39.9	21.0	49 E	34*	30*
2 5	0 25.36	− 1 14.0	1.620	1.230	37.4	21.2	49 E	35*	30*
2 10	0 42.54	+ 0 32.2	1.707	1.294	35.1	21.4	49 E	35*	29*

256686 2007 YZ_{54}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 40.85	−23 7.3	2.331	1.578	19.0	20.4	31 E	13*	22*
1 6	21 10.06	−20 41.2	2.349	1.557	17.5	20.3	28 E	13*	19*
1 16	21 38.98	−17 56.5	2.366	1.539	16.0	20.3	26 E	12*	15*
1 26	22 7.52	−14 55.7	2.384	1.525	14.5	20.2	23 E	12*	12*
2 5	22 35.65	−11 41.9	2.402	1.515	13.0	20.2	20 E	10*	10*
2 15	23 3.41	− 8 18.3	2.421	1.510	11.4	20.1	18 E	9*	7*
2 25	23 30.83	− 4 48.4	2.442	1.509	9.9	20.1	15 E	7*	5*
3 7	23 58.00	− 1 15.8	2.464	1.512	8.3	20.0	13 E	5*	3*
3 17	0 25.00	+ 2 16.1	2.488	1.520	6.7	20.0	10 E	3*	1*
3 27	0 51.93	+ 5 43.9	2.514	1.532	5.1	20.0	8 E	1*	—
4 6	1 18.85	+ 9 4.2	2.541	1.548	3.6	19.9	6 E	—	—
4 16	1 45.86	+12 14.4	2.569	1.568	2.1	19.9	3 E	—	—
4 26	2 12.98	+15 11.9	2.596	1.591	1.1	19.8	2 W	—	—
5 6	2 40.25	+17 54.3	2.624	1.617	1.9	20.0	3 W	—	—
5 16	3 7.66	+20 20.1	2.650	1.646	3.4	20.1	6 W	—	—
5 26	3 35.15	+22 27.8	2.674	1.678	5.1	20.3	8 W	—	1*
6 5	4 2.65	+24 16.7	2.695	1.712	6.7	20.4	11 W	2*	3*
6 15	4 30.06	+25 46.3	2.712	1.748	8.4	20.6	15 W	5*	5*
6 25	4 57.23	+26 56.7	2.725	1.785	10.1	20.7	18 W	8*	7*
7 5	5 24.02	+27 48.5	2.732	1.823	11.7	20.8	21 W	11*	9*
7 15	5 50.28	+28 22.9	2.733	1.863	13.4	20.9	25 W	15*	11*
7 25	6 15.82	+28 41.0	2.727	1.903	15.0	21.0	29 W	19*	13*
8 4	6 40.54	+28 44.7	2.713	1.943	16.5	21.1	33 W	24*	14*
8 14	7 4.29	+28 35.9	2.691	1.984	18.1	21.2	37 W	29*	16*
8 24	7 26.95	+28 16.7	2.660	2.025	19.5	21.2	42 W	34*	17*
9 3	7 48.45	+27 49.5	2.621	2.066	20.9	21.3	47 W	39*	19*
9 13	8 8.67	+27 16.5	2.572	2.107	22.1	21.3	52 W	44*	21*
9 23	8 27.54	+26 40.3	2.514	2.148	23.2	21.4	57 W	49*	23*
10 3	8 44.97	+26 3.3	2.448	2.188	24.1	21.4	63 W	55*	25*
10 13	9 0.83	+25 28.1	2.373	2.228	24.8	21.4	69 W	60*	27*
10 23	9 14.99	+24 57.3	2.291	2.267	25.2	21.3	76 W	65*	29*
11 2	9 27.29	+24 33.4	2.203	2.306	25.3	21.3	83 W	68*	32*
11 12	9 37.48	+24 19.1	2.111	2.344	25.0	21.2	91 W	69	35*
11 22	9 45.30	+24 16.9	2.017	2.381	24.2	21.1	99 W	69	37*
12 2	9 50.45	+24 28.5	1.925	2.418	22.8	21.0	108 W	69	39*
12 12	9 52.57	+24 55.2	1.838	2.453	20.9	20.9	118 W	70	39
12 22	9 51.37	+25 36.3	1.760	2.488	18.2	20.7	128 W	71	38
1 1	9 46.72	+26 29.1	1.698	2.522	14.9	20.6	139 W	71	38
1 11	9 38.73	+27 27.9	1.655	2.555	11.1	20.4	150 W	72	37
1 21	9 28.03	+28 24.6	1.638	2.587	7.3	20.3	161 W	73	36

23250 2000 WQ_{181}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 41.06	−13 50.3	3.624	2.860	11.0	20.8	34 E	21*	19*
1 6	20 55.90	−13 29.1	3.680	2.841	9.1	20.7	27 E	17*	13*
1 16	21 11.11	−13 0.2	3.719	2.821	7.1	20.6	21 E	13*	7*
1 26	21 26.57	−12 24.4	3.743	2.800	5.0	20.5	14 E	7*	2*
2 5	21 42.22	−11 42.5	3.751	2.778	2.8	20.4	8 E	2*	—
2 15	21 58.01	−10 55.4	3.742	2.755	0.8	20.2	2 E	—	—
2 25	22 13.89	−10 3.8	3.717	2.731	1.7	20.2	5 W	—	—
3 7	22 29.82	− 9 8.9	3.676	2.706	3.9	20.3	11 W	—	5*
3 17	22 45.78	− 8 11.5	3.620	2.681	6.1	20.4	17 W	—	11*
3 27	23 1.75	− 7 12.8	3.549	2.654	8.3	20.4	22 W	1*	16*
4 6	23 17.70	− 6 13.8	3.465	2.627	10.4	20.5	28 W	3*	22*
4 16	23 33.65	− 5 15.7	3.368	2.599	12.5	20.5	34 W	4*	28*
4 26	23 49.57	− 4 19.7	3.259	2.570	14.5	20.4	40 W	6*	34*
5 6	0 5.45	− 3 27.0	3.141	2.540	16.5	20.4	46 W	8*	40*
5 16	0 21.28	− 2 39.1	3.013	2.509	18.3	20.3	51 W	10*	45*
5 26	0 37.04	− 1 57.6	2.877	2.478	20.1	20.3	57 W	13*	50*
6 5	0 52.70	− 1 23.9	2.736	2.446	21.7	20.2	63 W	16*	55*
6 15	1 8.21	− 1 0.0	2.589	2.413	23.1	20.1	69 W	20*	59*
6 25	1 23.51	− 0 48.0	2.439	2.380	24.3	20.0	75 W	24*	62*
7 5	1 38.52	− 0 50.0	2.287	2.346	25.3	19.8	81 W	29*	64*
7 15	1 53.10	− 1 8.5	2.136	2.311	26.0	19.7	87 W	33*	65*
7 25	2 7.09	− 1 46.3	1.986	2.277	26.5	19.5	93 W	37*	66
8 4	2 20.29	− 2 46.0	1.840	2.241	26.5	19.3	99 W	39*	67
8 14	2 32.42	− 4 10.6	1.700	2.205	26.2	19.1	106 W	40*	68
8 24	2 43.15	− 6 2.2	1.568	2.169	25.5	18.8	113 W	39	70
9 3	2 52.09	− 8 22.1	1.447	2.133	24.3	18.6	120 W	37	72
9 13	2 58.77	−11 9.7	1.338	2.097	22.8	18.3	126 W	34	75
9 18	3 1.12	−12 42.7	1.289	2.079	21.9	18.2	129 W	32	77
9 23	3 2.74	−14 20.5	1.245	2.061	21.0	18.1	133 W	31	78
9 28	3 3.57	−16 2.0	1.205	2.043	20.2	18.0	135 W	29	80
10 3	3 3.59	−17 45.6	1.170	2.025	19.5	17.9	138 W	27	82
10 8	3 2.78	−19 29.1	1.139	2.007	18.9	17.8	139 W	26	83
10 13	3 1.14	−21 10.3	1.114	1.989	18.5	17.7	141 W	24	85

23250 2000 WQ_{181} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 18	2 58.73	−22 46.5	1.093	1.971	18.5	17.6	141 W	22	87
10 23	2 55.63	−24 15.3	1.077	1.953	18.7	17.6	141 W	21	88
10 28	2 51.96	−25 34.4	1.066	1.936	19.3	17.5	140 W	19	90
11 2	2 47.86	−26 41.4	1.060	1.919	20.1	17.5	138 W	18	89
11 7	2 43.51	−27 34.6	1.058	1.902	21.1	17.6	136 E	17	88
11 12	2 39.14	−28 12.7	1.060	1.885	22.3	17.6	134 E	17	88
11 17	2 34.96	−28 35.1	1.066	1.868	23.6	17.6	131 E	16	87
11 22	2 31.17	−28 42.0	1.075	1.852	25.0	17.6	128 E	16	87
11 27	2 27.93	−28 33.6	1.087	1.836	26.3	17.7	125 E	16	87
12 2	2 25.39	−28 10.9	1.101	1.820	27.6	17.7	121 E	17	88
12 7	2 23.66	−27 34.9	1.118	1.805	28.8	17.8	118 E	17	88
12 12	2 22.83	−26 46.7	1.136	1.790	29.9	17.8	115 E	18	89
12 17	2 22.92	−25 47.8	1.156	1.775	31.0	17.9	112 E	19	90
12 22	2 23.94	−24 39.5	1.177	1.761	31.9	17.9	109 E	20	89
12 27	2 25.88	−23 23.1	1.199	1.748	32.8	18.0	106 E	22	87
1 1	2 28.71	−21 59.6	1.222	1.734	33.5	18.0	103 E	23	86
1 6	2 32.39	−20 30.0	1.246	1.722	34.2	18.1	101 E	24	85
1 11	2 36.89	−18 55.4	1.270	1.710	34.7	18.1	98 E	26	83*
1 16	2 42.16	−17 16.6	1.294	1.698	35.2	18.2	95 E	28	80*
1 21	2 48.15	−15 34.5	1.319	1.687	35.6	18.2	93 E	29	77*

163023 2001 XU_1

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 42.21	−30 41.3	1.076	0.568	65.2	20.5	32 E	6*	25*
12 29	20 59.39	−29 41.9	1.064	0.593	65.8	20.6	33 E	8*	27*
12 31	21 15.95	−28 32.9	1.054	0.618	66.2	20.7	35 E	10*	28*
1 2	21 31.86	−27 15.6	1.047	0.643	66.2	20.8	37 E	11*	29*
1 4	21 47.11	−25 51.0	1.042	0.667	66.1	20.8	38 E	13*	30*
1 6	22 1.70	−24 20.5	1.040	0.691	65.7	20.9	40 E	15*	31*
1 8	22 15.62	−22 45.3	1.039	0.714	65.2	21.0	41 E	17*	32*
1 10	22 28.91	−21 6.5	1.041	0.737	64.6	21.0	43 E	18*	33*
1 12	22 41.57	−19 25.1	1.044	0.759	63.8	21.1	44 E	20*	33*
1 14	22 53.65	−17 42.1	1.049	0.781	63.0	21.1	45 E	22*	34*
1 16	23 5.17	−15 58.2	1.056	0.802	62.2	21.2	46 E	24*	34*
1 21	23 31.75	−11 39.6	1.080	0.853	59.8	21.3	49 E	28*	34*
1 26	23 55.58	− 7 28.9	1.113	0.900	57.4	21.4	50 E	31*	34*
1 31	0 17.15	− 3 31.3	1.152	0.943	55.0	21.5	52 E	35*	33*
2 5	0 36.89	+ 0 10.6	1.196	0.983	52.7	21.6	53 E	37*	31*

159533 2001 HH_{31}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 42.26	−26 20.6	1.907	1.186	25.7	20.5	32 E	10*	24*
1 1	21 2.05	−25 7.1	1.908	1.181	25.5	20.5	31 E	11*	23*
1 6	21 21.61	−23 43.8	1.911	1.178	25.3	20.5	31 E	11*	22*
1 11	21 40.90	−22 11.4	1.914	1.177	25.0	20.5	30 E	12*	22*
1 16	21 59.86	−20 30.8	1.920	1.176	24.8	20.5	30 E	13*	21*
1 21	22 18.48	−18 43.0	1.927	1.178	24.5	20.5	30 E	13*	20*
1 26	22 36.75	−16 48.9	1.935	1.181	24.2	20.5	29 E	14*	20*
1 31	22 54.66	−14 49.7	1.945	1.185	23.8	20.5	29 E	15*	19*
2 5	23 12.22	−12 46.3	1.958	1.191	23.4	20.5	29 E	15*	18*
2 10	23 29.45	−10 39.8	1.972	1.199	23.0	20.6	28 E	15*	18*
2 15	23 46.37	− 8 31.2	1.988	1.207	22.5	20.6	28 E	16*	17*
2 20	0 3.00	− 6 21.6	2.005	1.217	22.0	20.6	28 E	16*	16*
2 25	0 19.37	− 4 11.9	2.025	1.229	21.5	20.6	27 E	16*	16*
3 2	0 35.50	− 2 2.9	2.046	1.241	20.9	20.7	27 E	16*	15*
3 7	0 51.42	+ 0 4.4	2.069	1.254	20.3	20.7	26 E	16*	14*
3 12	1 7.17	+ 2 9.5	2.093	1.269	19.6	20.7	25 E	15*	14*
3 17	1 22.76	+ 4 11.7	2.119	1.284	18.9	20.7	25 E	15*	13*
3 22	1 38.22	+ 6 10.3	2.146	1.300	18.2	20.8	24 E	14*	12*
3 27	1 53.58	+ 8 4.8	2.174	1.317	17.4	20.8	23 E	14*	12*
4 1	2 8.84	+ 9 54.9	2.203	1.335	16.6	20.8	22 E	13*	11*
4 6	2 24.03	+11 40.0	2.233	1.353	15.8	20.9	22 E	13*	10*
4 11	2 39.17	+13 20.0	2.263	1.371	14.9	20.9	21 E	12*	9*
4 16	2 54.27	+14 54.5	2.294	1.390	14.1	20.9	20 E	11*	9*
4 21	3 9.33	+16 23.3	2.325	1.410	13.2	20.9	19 E	10*	8*
4 26	3 24.36	+17 46.3	2.356	1.429	12.3	21.0	18 E	9*	7*
5 1	3 39.35	+19 3.2	2.387	1.449	11.4	21.0	16 E	8*	6*
5 6	3 54.32	+20 14.2	2.418	1.469	10.4	21.0	15 E	7*	5*
5 11	4 9.25	+21 19.0	2.448	1.489	9.5	21.0	14 E	6*	4*
5 16	4 24.15	+22 17.8	2.478	1.509	8.6	21.1	13 E	5*	4*
5 21	4 39.00	+23 10.5	2.507	1.529	7.7	21.1	12 E	3*	3*
5 26	4 53.78	+23 57.1	2.536	1.550	6.7	21.1	10 E	2*	1*
5 31	5 8.50	+24 37.8	2.563	1.570	5.8	21.1	9 E	1*	—
6 5	5 23.14	+25 12.7	2.589	1.590	4.9	21.1	8 E	—	—
6 10	5 37.68	+25 41.9	2.615	1.609	4.0	21.1	6 E	—	—
6 15	5 52.11	+26 5.5	2.638	1.629	3.2	21.1	5 E	—	—
6 20	6 6.41	+26 23.8	2.661	1.649	2.5	21.1	4 E	—	—
6 25	6 20.57	+26 36.9	2.681	1.668	2.1	21.1	3 E	—	—
6 30	6 34.58	+26 45.1	2.700	1.687	2.2	21.1	4 W	—	—
7 5	6 48.42	+26 48.5	2.718	1.706	2.6	21.2	4 W	—	—
7 10	7 2.09	+26 47.4	2.733	1.724	3.3	21.3	6 W	—	—
7 15	7 15.57	+26 42.0	2.747	1.742	4.1	21.4	7 W	1*	—
7 20	7 28.85	+26 32.7	2.758	1.760	5.0	21.5	9 W	3*	—

24447 2000 QY_1

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 27	20 42.80	−17 27.5	2.359	1.626	19.3	21.3	33 E	18*	21*
1 6	21 9.48	−16 21.6	2.378	1.595	17.6	21.2	29 E	16*	17*
1 16	21 36.58	−14 59.0	2.390	1.563	15.9	21.1	26 E	15*	14*
1 26	22 4.05	−13 20.7	2.396	1.533	14.2	21.0	22 E	12*	11*
2 5	22 31.84	−11 27.9	2.397	1.503	12.6	20.9	19 E	10*	9*
2 15	22 59.95	− 9 22.1	2.393	1.474	11.0	20.8	17 E	8*	7*
2 25	23 28.41	− 7 5.4	2.386	1.446	9.6	20.7	14 E	5*	6*
3 7	23 57.25	− 4 40.0	2.377	1.420	8.3	20.6	12 E	3*	4*
3 17	0 26.53	− 2 8.3	2.366	1.397	7.1	20.5	10 E	1*	3*
3 27	0 56.33	+ 0 26.6	2.354	1.376	6.2	20.4	9 E	—	2*
4 6	1 26.69	+ 3 1.5	2.343	1.357	5.6	20.4	8 E	—	2*
4 16	1 57.68	+ 5 33.1	2.333	1.343	5.2	20.3	7 E	—	1*
4 26	2 29.33	+ 7 57.7	2.325	1.331	5.1	20.3	7 E	—	—
5 6	3 1.63	+10 11.6	2.320	1.323	5.1	20.3	7 E	—	—
5 16	3 34.55	+12 11.2	2.318	1.319	5.3	20.3	7 E	—	—
5 26	4 7.97	+13 53.2	2.318	1.319	5.5	20.3	7 W	—	—
6 5	4 41.73	+15 14.9	2.322	1.324	5.8	20.3	8 W	—	—
6 15	5 15.66	+16 14.3	2.329	1.332	6.2	20.3	8 W	—	1*
6 25	5 49.51	+16 50.4	2.339	1.343	6.7	20.4	9 W	—	2*
7 5	6 23.02	+17 2.9	2.350	1.358	7.2	20.4	10 W	—	4*
7 15	6 55.99	+16 52.6	2.362	1.377	7.9	20.5	11 W	—	5*
7 25	7 28.20	+16 21.1	2.375	1.398	8.7	20.6	12 W	—	6*
8 4	7 59.49	+15 30.6	2.387	1.422	9.7	20.7	14 W	2*	7*
8 14	8 29.78	+14 23.6	2.398	1.448	10.8	20.8	16 W	5*	8*
8 24	8 59.00	+13 3.0	2.405	1.475	12.1	20.9	18 W	8*	9*
9 3	9 27.17	+11 31.6	2.410	1.504	13.4	21.0	20 W	11*	10*
9 13	9 54.30	+ 9 52.2	2.410	1.534	14.8	21.1	23 W	14*	11*
9 23	10 20.43	+ 8 7.4	2.404	1.565	16.3	21.2	26 W	17*	12*
10 3	10 45.65	+ 6 19.8	2.392	1.597	17.9	21.2	29 W	21*	14*
10 13	11 10.02	+ 4 31.6	2.374	1.628	19.4	21.3	33 W	24*	16*
10 23	11 33.59	+ 2 45.1	2.348	1.660	21.0	21.4	37 W	27*	18*
11 2	11 56.43	+ 1 2.3	2.315	1.691	22.5	21.4	41 W	30*	21*
11 12	12 18.56	− 0 34.8	2.273	1.722	24.0	21.5	45 W	33*	24*

11836 Eileen

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 42.83	−21 14.7	2.952	2.183	13.9	18.5	32 E	15*	22*
1 6	21 3.26	−20 39.7	2.972	2.142	12.0	18.4	27 E	12*	17*
1 16	21 24.32	−19 53.4	2.981	2.100	10.0	18.3	22 E	9*	13*
1 26	21 45.94	−18 56.3	2.978	2.058	8.1	18.2	17 E	5*	9*
2 5	22 8.06	−17 48.8	2.965	2.016	6.3	18.1	13 E	1*	6*
2 15	22 30.65	−16 31.6	2.941	1.974	4.8	17.9	10 E	—	4*
2 25	22 53.69	−15 5.5	2.909	1.933	4.0	17.8	8 E	—	1*
3 7	23 17.19	−13 31.3	2.868	1.892	4.4	17.8	8 E	—	—
3 17	23 41.16	−11 50.2	2.821	1.852	5.6	17.7	10 W	—	—
3 27	0 5.62	−10 3.2	2.769	1.812	7.3	17.7	13 W	—	3*
4 6	0 30.62	− 8 11.7	2.713	1.774	9.1	17.7	16 W	—	7*
4 16	0 56.20	− 6 17.2	2.655	1.738	10.9	17.7	19 W	—	10*
4 26	1 22.37	− 4 21.4	2.595	1.703	12.7	17.7	22 W	—	13*
5 6	1 49.18	− 2 26.2	2.536	1.670	14.4	17.6	24 W	—	16*
5 16	2 16.64	− 0 33.5	2.479	1.640	16.1	17.6	27 W	—	19*
5 26	2 44.72	+ 1 14.3	2.424	1.613	17.7	17.6	29 W	—	22*
6 5	3 13.38	+ 2 55.2	2.372	1.589	19.1	17.6	31 W	—	24*
6 15	3 42.55	+ 4 26.9	2.324	1.568	20.5	17.5	33 W	—	27*
6 25	4 12.11	+ 5 47.4	2.280	1.551	21.7	17.5	34 W	—	28*
7 5	4 41.91	+ 6 55.1	2.240	1.538	22.8	17.5	36 W	4*	30*
7 15	5 11.80	+ 7 48.8	2.204	1.530	23.9	17.5	38 W	7*	31*
7 25	5 41.56	+ 8 27.9	2.170	1.525	24.9	17.4	39 W	12*	32*
8 4	6 11.02	+ 8 52.5	2.139	1.525	25.9	17.4	41 W	16*	33*
8 14	6 40.00	+ 9 3.0	2.108	1.530	26.8	17.4	43 W	20*	33*
8 24	7 8.32	+ 9 0.8	2.077	1.539	27.7	17.5	45 W	24*	34*
9 3	7 35.85	+ 8 47.7	2.044	1.552	28.6	17.5	47 W	28*	34*
9 13	8 2.46	+ 8 25.5	2.009	1.569	29.5	17.5	50 W	32*	35*
9 23	8 28.05	+ 7 57.0	1.971	1.590	30.4	17.5	53 W	36*	36*
10 3	8 52.56	+ 7 24.8	1.928	1.614	31.2	17.5	57 W	40*	37*
10 13	9 15.90	+ 6 51.8	1.880	1.642	32.0	17.5	61 W	43*	38*
10 23	9 37.99	+ 6 21.3	1.827	1.672	32.7	17.5	65 W	46*	40*
11 2	9 58.77	+ 5 56.5	1.768	1.705	33.1	17.5	70 W	48*	42*
11 12	10 18.11	+ 5 41.2	1.704	1.739	33.4	17.5	75 W	50*	45*
11 22	10 35.85	+ 5 39.3	1.635	1.776	33.3	17.4	81 W	51	48*
12 2	10 51.82	+ 5 55.2	1.563	1.814	32.9	17.3	88 W	51	51*
12 12	11 5.72	+ 6 33.4	1.488	1.853	32.0	17.3	95 W	52	54*
12 22	11 17.25	+ 7 38.5	1.414	1.894	30.4	17.2	103 W	53	55*
1 1	11 26.04	+ 9 14.5	1.343	1.935	28.2	17.0	112 W	54	55
1 11	11 31.65	+11 24.1	1.279	1.976	25.2	16.9	121 W	56	53
1 21	11 33.73	+14 6.3	1.227	2.018	21.4	16.7	131 W	59	50

68950 2002 QF_{15}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 43.08	− 0 58.2	1.916	1.332	28.7	19.7	41 E	32*	14*
1 6	21 11.63	+ 0 6.6	1.930	1.299	27.6	19.6	38 E	31*	11*
1 16	21 40.87	+ 1 22.3	1.935	1.262	26.5	19.5	35 E	28*	8*
1 26	22 10.92	+ 2 47.4	1.933	1.220	25.5	19.4	32 E	26*	6*
2 5	22 41.93	+ 4 19.4	1.922	1.173	24.6	19.3	30 E	24*	4*

68950 2002 QF_{15} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 15	23 14.10	+ 5 55.5	1.903	1.121	23.9	19.2	27 E	21*	3*
2 25	23 47.66	+ 7 32.1	1.875	1.066	23.2	19.0	25 E	19*	3*
3 7	0 22.86	+ 9 4.9	1.839	1.007	22.9	18.8	23 E	17*	4*
3 12	0 41.18	+ 9 48.3	1.818	0.977	22.9	18.7	22 E	16*	4*
3 17	1 0.01	+10 28.9	1.795	0.946	23.0	18.6	22 E	15*	5*
3 22	1 19.40	+11 5.7	1.769	0.916	23.3	18.6	21 E	15*	6*
3 27	1 39.36	+11 38.1	1.741	0.885	23.9	18.5	21 E	14*	7*
4 1	1 59.94	+12 5.3	1.711	0.855	24.7	18.4	21 E	13*	8*
4 6	2 21.14	+12 26.4	1.678	0.826	25.8	18.3	21 E	13*	9*
4 11	2 43.00	+12 40.8	1.643	0.798	27.3	18.2	21 E	12*	11*
4 16	3 5.51	+12 47.8	1.605	0.773	29.2	18.1	22 E	11*	12*
4 26	3 52.42	+12 38.4	1.522	0.729	34.3	18.0	24 E	10*	16*
5 6	4 41.72	+11 57.5	1.430	0.702	40.8	18.0	27 E	9*	19*
5 16	5 33.20	+10 49.9	1.334	0.693	48.0	18.0	31 E	8*	24*
5 26	6 26.68	+ 9 24.0	1.241	0.706	54.7	18.1	35 E	7*	28*
6 5	7 22.02	+ 7 49.0	1.158	0.737	60.0	18.2	39 E	7*	32*
6 15	8 18.89	+ 6 12.0	1.095	0.783	63.0	18.3	43 E	8*	37*
6 25	9 16.38	+ 4 36.6	1.057	0.838	63.7	18.4	48 E	10*	41*
7 5	10 12.96	+ 3 5.0	1.047	0.897	62.5	18.5	52 E	12*	44*
7 15	11 6.99	+ 1 38.3	1.065	0.959	60.1	18.6	55 E	14*	47*
7 25	11 57.21	+ 0 17.4	1.105	1.019	57.0	18.7	57 E	17*	49*
8 4	12 43.09	− 0 57.3	1.164	1.077	53.7	18.9	59 E	19*	51*
8 14	13 24.82	− 2 6.2	1.236	1.132	50.4	19.0	59 E	21*	51*
8 24	14 2.92	− 3 9.1	1.316	1.182	47.4	19.1	59 E	23*	51*
9 3	14 38.03	− 4 5.9	1.401	1.228	44.5	19.3	59 E	24*	50*
9 13	15 10.85	− 4 56.2	1.487	1.270	41.9	19.4	57 E	26*	48*
9 23	15 41.92	− 5 39.3	1.573	1.306	39.4	19.5	56 E	26*	46*
10 3	16 11.69	− 6 14.1	1.657	1.338	37.2	19.6	54 E	27*	43*
10 13	16 40.56	− 6 39.9	1.737	1.364	35.0	19.7	52 E	28*	40*
10 23	17 8.80	− 6 55.4	1.812	1.386	33.0	19.8	49 E	28*	36*
11 2	17 36.61	− 6 59.7	1.881	1.402	31.0	19.8	47 E	28*	32*
11 12	18 4.16	− 6 52.1	1.944	1.413	29.2	19.9	44 E	29*	28*
11 22	18 31.57	− 6 31.8	1.999	1.420	27.5	19.9	42 E	28*	23*
12 2	18 58.91	− 5 58.5	2.047	1.421	25.8	19.9	39 E	28*	19*
12 12	19 26.28	− 5 11.8	2.088	1.417	24.2	19.9	36 E	27*	14*
12 22	19 53.71	− 4 11.9	2.120	1.408	22.7	19.9	33 E	26*	10*
1 1	20 21.29	− 2 59.2	2.144	1.394	21.2	19.8	31 E	24*	6*
1 11	20 49.09	− 1 34.3	2.160	1.375	19.8	19.8	28 E	22*	2*
1 21	21 17.19	+ 0 1.8	2.168	1.351	18.4	19.7	26 E	20*	—

5011 Ptah

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 43.80	−22 30.9	3.030	2.260	13.4	21.4	32 E	14*	23*
1 6	21 1.34	−21 6.5	3.065	2.227	11.3	21.3	26 E	11*	17*
1 16	21 19.21	−19 34.8	3.084	2.191	9.1	21.2	21 E	8*	12*
1 26	21 37.35	−17 55.7	3.088	2.153	6.9	21.0	15 E	5*	7*
2 5	21 55.75	−16 9.1	3.076	2.112	4.6	20.9	10 E	1*	3*
2 15	22 14.40	−14 15.0	3.050	2.068	2.5	20.7	5 E	—	—
2 25	22 33.33	−12 13.7	3.010	2.022	1.5	20.5	3 E	—	—
3 7	22 52.56	−10 5.1	2.956	1.972	3.2	20.5	6 W	—	—
3 17	23 12.17	− 7 49.2	2.889	1.920	5.5	20.6	11 W	—	4*
3 27	23 32.25	− 5 26.3	2.811	1.865	7.9	20.6	15 W	—	9*
4 6	23 52.91	− 2 56.4	2.723	1.807	10.4	20.5	19 W	—	13*
4 16	0 14.34	− 0 19.4	2.626	1.746	12.9	20.5	23 W	1*	17*
4 26	0 36.70	+ 2 24.3	2.523	1.682	15.4	20.4	26 W	3*	20*
5 6	1 0.26	+ 5 14.6	2.414	1.615	17.9	20.3	30 W	5*	23*
5 16	1 25.34	+ 8 10.9	2.303	1.546	20.5	20.2	32 W	7*	26*
5 26	1 52.31	+11 11.8	2.190	1.474	23.0	20.0	35 W	9*	27*
6 5	2 21.66	+14 15.3	2.079	1.399	25.5	19.9	36 W	12*	28*
6 10	2 37.40	+15 47.0	2.025	1.361	26.8	19.8	37 W	13*	28*
6 15	2 53.95	+17 17.7	1.972	1.323	28.0	19.7	38 W	15*	28*
6 20	3 11.38	+18 46.5	1.921	1.285	29.2	19.6	38 W	16*	28*
6 25	3 29.78	+20 12.6	1.873	1.246	30.4	19.6	38 W	17*	27*
6 30	3 49.22	+21 34.4	1.827	1.207	31.5	19.5	38 W	19*	26*
7 5	4 9.77	+22 50.6	1.784	1.168	32.6	19.4	38 W	20*	25*
7 10	4 31.46	+23 59.3	1.744	1.130	33.5	19.3	38 W	21*	24*
7 15	4 54.31	+24 58.5	1.708	1.092	34.4	19.2	37 W	22*	23*
7 20	5 18.28	+25 45.9	1.677	1.055	35.2	19.1	37 W	23*	21*
7 25	5 43.32	+26 19.3	1.650	1.018	35.7	19.0	36 W	23*	20*
7 30	6 9.29	+26 36.5	1.628	0.984	36.1	18.9	35 W	23*	18*
8 4	6 36.02	+26 35.7	1.612	0.951	36.2	18.8	34 W	23*	17*
8 9	7 3.27	+26 15.3	1.600	0.921	36.1	18.7	32 W	23*	15*
8 14	7 30.77	+25 34.5	1.594	0.893	35.7	18.6	31 W	22*	13*
8 19	7 58.25	+24 33.4	1.594	0.869	34.9	18.5	29 W	21*	12*
8 24	8 25.45	+23 12.5	1.598	0.849	33.9	18.5	28 W	20*	10*
8 29	8 52.15	+21 33.5	1.608	0.834	32.5	18.4	26 W	19*	9*
9 3	9 18.17	+19 38.3	1.622	0.823	30.9	18.4	25 W	18*	8*
9 8	9 43.38	+17 29.7	1.640	0.818	29.1	18.3	23 W	17*	7*
9 13	10 7.70	+15 10.3	1.662	0.818	27.2	18.3	22 W	15*	6*
9 18	10 31.10	+12 43.3	1.687	0.824	25.3	18.3	21 W	14*	5*
9 23	10 53.58	+10 11.4	1.714	0.836	23.4	18.3	19 W	13*	4*

5011 Ptah *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 28	11 15.19	+ 7 37.2	1.744	0.852	21.6	18.3	18 W	12*	4*
10 3	11 35.98	+ 5 3.0	1.775	0.872	20.0	18.3	17 W	11*	3*
10 8	11 56.00	+ 2 30.8	1.807	0.897	18.6	18.4	17 W	10*	3*
10 13	12 15.31	+ 0 2.2	1.841	0.925	17.5	18.5	16 W	9*	3*
10 18	12 33.98	− 2 21.6	1.875	0.956	16.5	18.6	16 W	9*	3*
10 23	12 52.07	− 4 39.5	1.909	0.989	15.8	18.6	16 W	9*	4*
11 2	13 26.75	− 8 55.5	1.977	1.060	15.1	18.8	16 W	8*	5*
11 12	13 59.71	−12 43.0	2.042	1.135	15.0	19.1	17 W	9*	6*
11 22	14 31.23	−16 1.1	2.103	1.213	15.4	19.3	19 W	9*	9*
12 2	15 1.51	−18 50.7	2.156	1.290	16.2	19.5	21 W	10*	12*
12 12	15 30.66	−21 13.5	2.202	1.367	17.3	19.7	24 W	10*	15*
12 22	15 58.72	−23 11.5	2.237	1.442	18.6	19.9	28 W	11*	19*
1 1	16 25.70	−24 47.0	2.261	1.515	19.9	20.1	32 W	11*	23*
1 11	16 51.55	−26 2.4	2.273	1.586	21.3	20.2	36 W	11*	28*
1 21	17 16.20	−27 0.4	2.273	1.654	22.7	20.4	41 W	12*	34*

16657 1993 *UB*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 44.02	−35 24.7	2.606	1.856	16.6	21.0	33 E	2*	27*
1 6	21 9.81	−32 53.8	2.595	1.797	15.3	20.9	29 E	2*	23*
1 16	21 35.61	−30 4.9	2.577	1.738	13.9	20.8	25 E	2*	19*
1 26	22 1.35	−26 58.0	2.553	1.680	12.6	20.6	22 E	1*	16*
2 5	22 27.00	−23 33.2	2.525	1.622	11.2	20.5	19 E	—	13*
2 15	22 52.60	−19 51.1	2.492	1.565	9.9	20.3	16 E	—	10*
2 25	23 18.20	−15 52.7	2.458	1.510	8.5	20.1	13 E	—	7*
3 7	23 43.91	−11 39.3	2.422	1.457	7.1	20.0	11 E	—	4*
3 17	0 9.89	− 7 12.5	2.386	1.408	5.8	19.8	8 E	—	2*
3 27	0 36.31	− 2 35.0	2.351	1.363	4.4	19.6	6 E	—	—
4 6	1 3.40	+ 2 10.3	2.319	1.323	3.2	19.5	4 E	—	—
4 16	1 31.45	+ 6 59.7	2.289	1.289	2.5	19.3	3 W	—	—
4 21	1 45.92	+ 9 24.3	2.276	1.274	2.5	19.3	3 W	—	—
4 26	2 0.73	+11 48.1	2.264	1.262	2.8	19.3	4 W	—	—
5 1	2 15.93	+14 10.1	2.254	1.251	3.3	19.3	4 W	—	—
5 6	2 31.56	+16 29.6	2.245	1.242	3.9	19.3	5 W	—	—
5 11	2 47.67	+18 45.7	2.237	1.236	4.6	19.3	6 W	—	—
5 16	3 4.27	+20 57.3	2.231	1.232	5.4	19.3	7 W	—	—
5 21	3 21.39	+23 3.6	2.226	1.230	6.1	19.4	7 W	1*	—
5 26	3 39.06	+25 3.3	2.223	1.230	6.9	19.4	8 W	2*	—
5 31	3 57.28	+26 55.4	2.222	1.232	7.6	19.4	9 W	3*	—
6 5	4 16.04	+28 39.0	2.223	1.237	8.3	19.5	10 W	4*	—
6 10	4 35.33	+30 13.0	2.225	1.244	9.0	19.5	11 W	5*	—
6 15	4 55.08	+31 36.4	2.230	1.253	9.6	19.6	12 W	6*	—
6 20	5 15.23	+32 48.7	2.235	1.264	10.2	19.6	13 W	7*	—
6 25	5 35.70	+33 49.0	2.243	1.277	10.7	19.7	13 W	7*	—
6 30	5 56.37	+34 37.0	2.252	1.292	11.2	19.7	14 W	8*	—
7 5	6 17.15	+35 12.6	2.263	1.308	11.6	19.8	15 W	9*	—
7 10	6 37.89	+35 35.8	2.276	1.326	12.0	19.8	16 W	10*	—
7 15	6 58.46	+35 46.9	2.289	1.346	12.4	19.9	17 W	10*	—
7 20	7 18.75	+35 46.4	2.304	1.367	12.7	19.9	17 W	11*	—
7 25	7 38.63	+35 35.1	2.319	1.389	13.0	20.0	18 W	12*	—
7 30	7 58.03	+35 13.7	2.336	1.412	13.3	20.1	19 W	12*	—
8 4	8 16.87	+34 43.3	2.353	1.437	13.6	20.1	19 W	13*	—
8 9	8 35.09	+34 4.9	2.370	1.462	13.9	20.2	20 W	14*	—
8 14	8 52.66	+33 19.4	2.388	1.488	14.2	20.3	21 W	14*	—
8 19	9 9.55	+32 28.0	2.405	1.515	14.5	20.3	22 W	15*	—
8 24	9 25.76	+31 31.6	2.423	1.542	14.8	20.4	23 W	16*	—
8 29	9 41.31	+30 31.2	2.439	1.570	15.1	20.5	24 W	17*	—
9 3	9 56.22	+29 27.5	2.455	1.598	15.4	20.5	25 W	18*	—
9 8	10 10.50	+28 21.5	2.470	1.627	15.8	20.6	26 W	19*	—
9 13	10 24.18	+27 13.7	2.484	1.656	16.2	20.6	27 W	20*	—
9 18	10 37.30	+26 4.9	2.497	1.685	16.6	20.7	29 W	22*	—
9 23	10 49.87	+24 55.5	2.507	1.714	17.0	20.8	30 W	23*	—
9 28	11 1.94	+23 46.2	2.517	1.744	17.5	20.8	32 W	25*	—
10 3	11 13.54	+22 37.2	2.524	1.773	18.0	20.9	33 W	27*	—
10 8	11 24.68	+21 29.0	2.529	1.803	18.5	20.9	35 W	29*	1*
10 13	11 35.40	+20 22.0	2.531	1.832	19.0	21.0	37 W	31*	3*
10 18	11 45.70	+19 16.5	2.532	1.862	19.6	21.1	39 W	33*	4*
10 23	11 55.61	+18 12.7	2.529	1.891	20.1	21.1	41 W	35*	6*
10 28	12 5.15	+17 10.7	2.525	1.921	20.6	21.1	43 W	37*	7*
11 2	12 14.33	+16 10.9	2.517	1.950	21.2	21.2	45 W	39*	9*
11 7	12 23.15	+15 13.4	2.506	1.979	21.7	21.2	48 W	41*	11*
11 12	12 31.62	+14 18.5	2.493	2.008	22.2	21.3	50 W	43*	13*
11 17	12 39.74	+13 26.2	2.477	2.036	22.7	21.3	53 W	46*	16*
11 22	12 47.51	+12 36.7	2.458	2.065	23.2	21.3	55 W	47*	18*
11 27	12 54.92	+11 50.0	2.436	2.093	23.6	21.4	58 W	49*	21*
12 2	13 1.98	+11 6.4	2.412	2.121	24.0	21.4	61 W	51*	24*
12 7	13 8.67	+10 26.0	2.384	2.149	24.4	21.4	64 W	52*	27*
12 12	13 14.96	+ 9 48.8	2.354	2.176	24.7	21.4	67 W	53*	30*
12 17	13 20.84	+ 9 14.9	2.322	2.203	24.9	21.4	71 W	53*	34*
12 22	13 26.30	+ 8 44.5	2.287	2.230	25.1	21.4	74 W	53*	37*
12 27	13 31.31	+ 8 17.5	2.250	2.257	25.2	21.4	78 W	53*	40*
1 1	13 35.83	+ 7 54.1	2.212	2.283	25.2	21.4	81 W	53	44*

16657 1993 *UB* (*continuation*)

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 6	13 39.83	+ 7 34.3	2.171	2.309	25.1	21.4	85 W	53	47*
1 11	13 43.28	+ 7 18.2	2.130	2.335	24.9	21.3	89 W	52	50*
1 16	13 46.14	+ 7 5.8	2.088	2.360	24.6	21.3	93 W	52	53*
1 21	13 48.38	+ 6 57.0	2.045	2.385	24.1	21.3	98 W	52	55*

250436 2003 WT_{137}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
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*
1 26	22 4.03	−14 48.0	2.541	1.670	12.8	20.4	22 E	11*	12*
2 5	22 30.57	−12 19.9	2.557	1.654	11.1	20.3	19 E	9*	9*
2 15	22 56.99	− 9 41.4	2.571	1.642	9.4	20.3	16 E	7*	6*
2 25	23 23.28	− 6 55.3	2.583	1.633	7.7	20.2	13 E	4*	4*
3 7	23 49.46	− 4 4.1	2.595	1.627	6.1	20.1	10 E	2*	2*
3 17	0 15.57	− 1 10.5	2.607	1.625	4.4	20.0	7 E	—	—
3 27	0 41.67	+ 1 42.7	2.618	1.625	2.9	19.9	5 E	—	—
4 6	1 7.78	+ 4 32.7	2.628	1.629	1.7	19.9	3 E	—	—
4 16	1 33.97	+ 7 17.0	2.638	1.637	1.7	19.9	3 W	—	—
4 26	2 0.25	+ 9 53.0	2.648	1.647	2.9	20.0	5 W	—	—
5 6	2 26.64	+12 18.4	2.656	1.661	4.5	20.1	7 W	—	1*
5 16	2 53.13	+14 31.4	2.664	1.678	6.1	20.2	10 W	—	4*
5 26	3 19.68	+16 30.3	2.669	1.697	7.7	20.3	13 W	—	7*
6 5	3 46.24	+18 13.7	2.672	1.719	9.3	20.4	16 W	—	10*
6 15	4 12.73	+19 40.9	2.671	1.743	11.0	20.5	19 W	3*	12*
6 25	4 39.02	+20 51.4	2.667	1.769	12.6	20.6	22 W	6*	14*
7 5	5 5.01	+21 45.1	2.658	1.797	14.2	20.7	26 W	10*	16*
7 15	5 30.56	+22 22.5	2.644	1.826	15.8	20.8	29 W	14*	18*
7 25	5 55.51	+22 44.4	2.624	1.857	17.3	20.9	33 W	19*	20*
8 4	6 19.75	+22 51.9	2.598	1.889	18.9	20.9	37 W	24*	22*
8 14	6 43.14	+22 46.7	2.565	1.922	20.3	21.0	41 W	29*	23*
8 24	7 5.56	+22 30.4	2.524	1.956	21.7	21.0	46 W	34*	25*
9 3	7 26.89	+22 4.9	2.476	1.991	23.0	21.1	50 W	39*	27*
9 13	7 47.03	+21 32.4	2.420	2.026	24.1	21.1	55 W	44*	28*
9 23	8 5.85	+20 55.2	2.357	2.061	25.1	21.1	61 W	49*	30*
10 3	8 23.26	+20 15.7	2.285	2.096	25.9	21.1	66 W	54*	32*
10 13	8 39.11	+19 36.3	2.207	2.132	26.5	21.1	73 W	58*	35*
10 23	8 53.22	+18 59.9	2.123	2.167	26.8	21.0	79 W	62*	37*
11 2	9 5.43	+18 29.0	2.034	2.202	26.7	21.0	86 W	63*	40*
11 12	9 15.46	+18 6.6	1.942	2.237	26.2	20.9	94 W	63	43*
11 22	9 23.05	+17 55.5	1.850	2.272	25.2	20.8	102 W	63	45*
12 2	9 27.88	+17 58.3	1.760	2.306	23.5	20.7	111 W	63	46*
12 12	9 29.61	+18 16.9	1.676	2.340	21.2	20.5	121 W	63	46
12 22	9 28.03	+18 52.0	1.603	2.373	18.1	20.3	132 W	64	45
1 1	9 23.09	+19 41.8	1.546	2.406	14.2	20.2	143 W	65	44
1 6	9 19.42	+20 11.2	1.525	2.422	12.1	20.1	149 W	65	44
1 11	9 15.05	+20 42.3	1.510	2.438	9.8	20.0	155 W	66	43
1 16	9 10.10	+21 14.4	1.501	2.453	7.4	19.9	161 W	66	43
1 21	9 4.71	+21 46.4	1.499	2.469	5.0	19.8	167 W	67	42

31832 2000 AP_{59}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 44.19	−16 37.4	2.405	1.677	19.0	18.7	34 E	19*	21*
1 6	21 11.14	−14 23.1	2.472	1.697	17.0	18.7	30 E	18*	17*
1 16	21 37.24	−11 59.3	2.538	1.720	15.0	18.7	27 E	17*	13*
1 26	22 2.51	− 9 28.3	2.602	1.744	13.0	18.7	24 E	15*	9*
2 5	22 27.00	− 6 52.5	2.664	1.770	11.0	18.8	20 E	13*	6*
2 15	22 50.80	− 4 14.0	2.723	1.797	9.0	18.8	16 E	10*	3*
2 25	23 13.96	− 1 34.5	2.777	1.825	6.9	18.7	13 E	7*	—
3 7	23 36.57	+ 1 4.0	2.827	1.855	5.0	18.7	9 E	3*	—
3 17	23 58.72	+ 3 40.1	2.872	1.885	3.1	18.7	6 E	—	—
3 27	0 20.46	+ 6 12.5	2.910	1.916	2.0	18.7	4 W	—	—
4 6	0 41.86	+ 8 39.9	2.942	1.947	2.5	18.8	5 W	—	—
4 16	1 2.97	+11 1.4	2.967	1.979	4.2	18.9	8 W	—	1*
4 26	1 23.82	+13 16.0	2.983	2.011	6.0	19.1	12 W	2*	5*
5 6	1 44.45	+15 22.9	2.992	2.043	7.9	19.2	16 W	4*	9*
5 16	2 4.86	+17 21.7	2.991	2.075	9.8	19.3	20 W	6*	13*
5 26	2 25.05	+19 11.7	2.982	2.106	11.7	19.4	25 W	9*	16*
6 5	2 44.99	+20 52.6	2.962	2.138	13.5	19.5	29 W	12*	20*
6 15	3 4.65	+22 24.3	2.934	2.169	15.2	19.6	34 W	16*	23*
6 25	3 23.95	+23 46.6	2.895	2.200	16.9	19.6	39 W	21*	25*
7 5	3 42.82	+24 59.6	2.847	2.230	18.5	19.7	44 W	26*	28*
7 15	4 1.14	+26 3.7	2.788	2.260	19.9	19.7	49 W	32*	29*
7 25	4 18.78	+26 59.1	2.721	2.289	21.2	19.7	55 W	38*	31*
8 4	4 35.60	+27 46.7	2.644	2.318	22.4	19.7	60 W	45*	32*
8 14	4 51.39	+28 27.2	2.560	2.345	23.3	19.7	66 W	52*	33*
8 24	5 5.94	+29 1.5	2.467	2.373	24.0	19.7	73 W	59*	33*
9 3	5 19.01	+29 30.8	2.369	2.399	24.4	19.6	79 W	65*	34*
9 13	5 30.29	+29 56.3	2.266	2.424	24.5	19.5	87 W	71*	34*
9 23	5 39.43	+30 19.2	2.160	2.449	24.1	19.4	94 W	75*	34*
10 3	5 46.07	+30 40.4	2.054	2.473	23.3	19.3	103 W	76	33
10 13	5 49.80	+31 0.5	1.950	2.496	21.8	19.2	112 W	76	33
10 23	5 50.23	+31 19.2	1.854	2.518	19.7	19.0	121 W	76	33

31832 2000 AP_{59} (*continuation*)

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 2	5 47.10	+31 34.9	1.769	2.540	17.0	18.9	132 W	77	32
11 12	5 40.35	+31 44.8	1.700	2.560	13.5	18.7	143 W	77	32
11 17	5 35.74	+31 46.4	1.673	2.570	11.5	18.6	149 W	77	32
11 22	5 30.42	+31 45.2	1.652	2.579	9.5	18.5	155 W	77	32
11 27	5 24.52	+31 40.6	1.638	2.589	7.3	18.4	160 W	77	32
12 2	5 18.20	+31 32.5	1.630	2.598	5.3	18.3	166 W	77	32
12 7	5 11.64	+31 20.7	1.630	2.607	3.6	18.2	170 W	76	33
12 12	5 5.07	+31 5.4	1.637	2.615	3.1	18.2	172 E	76	33
12 17	4 58.68	+30 47.0	1.652	2.624	4.3	18.3	169 E	76	33
12 22	4 52.65	+30 26.2	1.674	2.632	6.1	18.4	163 E	75	34
12 27	4 47.14	+30 3.5	1.703	2.640	8.1	18.5	158 E	75	34
1 1	4 42.29	+29 39.8	1.739	2.647	10.1	18.7	152 E	75	34
1 6	4 38.18	+29 15.8	1.781	2.655	11.9	18.8	146 E	74	35
1 11	4 34.89	+28 52.3	1.829	2.662	13.6	18.9	140 E	74	35
1 16	4 32.44	+28 29.9	1.882	2.669	15.1	19.0	135 E	73	36
1 21	4 30.84	+28 9.0	1.940	2.676	16.5	19.2	129 E	73	36

144900 2004 VG_{64}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 44.27	− 8 53.5	1.195	0.713	55.3	20.0	37 E	26*	18*
1 1	21 18.25	− 8 10.2	1.230	0.782	53.0	20.2	39 E	28*	20*
1 6	21 49.15	− 7 26.3	1.276	0.848	50.3	20.3	42 E	29*	22*
1 11	22 17.14	− 6 42.0	1.331	0.911	47.6	20.5	43 E	30*	24*
1 16	22 42.50	− 5 57.6	1.393	0.970	44.9	20.7	44 E	31*	25*
1 21	23 5.55	− 5 13.5	1.459	1.025	42.3	20.8	45 E	31*	25*
1 26	23 26.59	− 4 30.1	1.528	1.078	39.9	21.0	45 E	31*	26*
1 31	23 45.92	− 3 47.5	1.598	1.127	37.6	21.1	44 E	31*	26*
2 5	0 3.80	− 3 5.7	1.669	1.173	35.4	21.2	44 E	30*	26*
2 10	0 20.46	− 2 24.9	1.740	1.216	33.4	21.3	43 E	29*	26*
2 15	0 36.11	− 1 45.1	1.810	1.257	31.5	21.4	42 E	28*	25*

18514 1996 TE_{11}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 45.28	− 7 31.0	3.220	2.512	13.8	21.1	37 E	27*	17*
1 6	21 1.78	− 7 17.3	3.245	2.459	12.0	21.0	31 E	23*	12*
1 16	21 18.97	− 6 53.1	3.257	2.406	10.1	20.9	26 E	19*	6*
1 26	21 36.79	− 6 19.0	3.254	2.352	8.2	20.8	20 E	14*	2*
2 5	21 55.17	− 5 35.9	3.239	2.298	6.1	20.6	14 E	8*	—
2 15	22 14.10	− 4 44.4	3.210	2.242	4.2	20.5	9 E	3*	—
2 25	22 33.58	− 3 45.5	3.169	2.186	2.5	20.3	5 E	—	—
3 7	22 53.60	− 2 40.4	3.116	2.129	2.3	20.2	5 W	—	—
3 17	23 14.22	− 1 30.0	3.052	2.072	3.9	20.2	8 W	—	1*
3 27	23 35.47	− 0 15.7	2.979	2.015	6.0	20.2	12 W	—	6*
4 6	23 57.44	+ 1 1.3	2.897	1.957	8.3	20.1	16 W	1*	10*
4 16	0 20.22	+ 2 19.5	2.808	1.900	10.6	20.1	20 W	2*	14*
4 26	0 43.89	+ 3 37.2	2.714	1.843	12.9	20.1	24 W	2*	18*
5 6	1 8.59	+ 4 52.5	2.616	1.787	15.3	20.0	28 W	3*	22*
5 16	1 34.42	+ 6 3.3	2.516	1.732	17.6	19.9	31 W	4*	25*
5 26	2 1.47	+ 7 7.1	2.416	1.678	19.9	19.8	34 W	5*	28*
6 5	2 29.86	+ 8 1.3	2.318	1.627	22.1	19.7	37 W	6*	31*
6 15	2 59.62	+ 8 43.1	2.223	1.578	24.2	19.7	40 W	8*	33*
6 25	3 30.73	+ 9 9.4	2.134	1.532	26.2	19.6	42 W	10*	35*
7 5	4 3.10	+ 9 17.7	2.053	1.490	28.0	19.5	44 W	12*	36*
7 15	4 36.56	+ 9 5.7	1.980	1.453	29.7	19.4	45 W	14*	37*
7 25	5 10.81	+ 8 31.9	1.917	1.421	31.2	19.3	46 W	17*	38*
8 4	5 45.50	+ 7 36.4	1.865	1.394	32.4	19.2	47 W	19*	38*
8 14	6 20.23	+ 6 20.4	1.823	1.375	33.4	19.2	48 W	22*	39*
8 24	6 54.57	+ 4 46.7	1.790	1.362	34.1	19.2	49 W	23*	39*
9 3	7 28.19	+ 2 59.1	1.767	1.357	34.6	19.1	50 W	25*	39*
9 13	8 0.75	+ 1 1.7	1.750	1.359	35.0	19.1	51 W	27*	40*
9 23	8 32.02	− 1 0.6	1.738	1.369	35.2	19.1	52 W	28*	40*
10 3	9 1.89	− 3 3.9	1.728	1.386	35.4	19.1	53 W	30*	41*
10 13	9 30.23	− 5 4.5	1.717	1.410	35.5	19.2	55 W	31*	42*
10 23	9 56.99	− 6 58.9	1.705	1.440	35.6	19.2	58 W	32*	44*
11 2	10 22.15	− 8 44.7	1.688	1.476	35.8	19.2	60 W	33*	46*
11 12	10 45.64	−10 19.4	1.665	1.516	35.9	19.3	64 W	33*	49*
11 22	11 7.39	−11 40.6	1.635	1.561	35.9	19.3	68 W	33*	52*
12 2	11 27.32	−12 46.2	1.598	1.609	35.8	19.3	73 W	32	57*
12 12	11 45.24	−13 33.8	1.554	1.659	35.5	19.3	78 W	31	62*
12 22	12 0.95	−14 0.5	1.502	1.712	34.9	19.3	84 W	31	68*
1 1	12 14.17	−14 3.3	1.445	1.767	33.8	19.2	91 W	31	74*
1 6	12 19.74	−13 54.5	1.415	1.794	33.1	19.2	95 W	31	76*
1 11	12 24.55	−13 38.3	1.385	1.822	32.2	19.2	99 W	31	77*
1 16	12 28.57	−13 14.1	1.354	1.850	31.1	19.1	104 W	32	77
1 21	12 31.76	−12 41.6	1.324	1.879	29.9	19.1	108 W	32	77

361539 2007 KN_3

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 45.54	−20 47.9	2.193	1.468	21.4	21.4	33 E	15*	23*
1 6	21 17.63	−18 50.9	2.223	1.465	20.0	21.4	31 E	15*	20*
1 16	21 49.17	−16 33.6	2.256	1.466	18.5	21.3	28 E	15*	17*
1 26	22 20.03	−13 59.8	2.292	1.472	17.1	21.3	26 E	14*	15*
2 5	22 50.12	−11 13.4	2.330	1.482	15.6	21.3	24 E	13*	13*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
361539 2007 KN_3									*(continuation)*
	h m	° ′			°	m	°	°	°
2 15	23 19.48	− 8 18.6	2.371	1.496	14.0	21.3	21 E	12*	11*
2 25	23 48.12	− 5 19.4	2.414	1.514	12.4	21.4	19 E	10*	9*
3 7	0 16.11	− 2 19.8	2.459	1.536	10.8	21.4	17 E	8*	8*
3 17	0 43.54	+ 0 37.0	2.505	1.561	9.1	21.4	14 E	6*	6*
3 27	1 10.47	+ 3 27.8	2.553	1.590	7.4	21.4	12 E	3*	4*
4 6	1 36.97	+ 6 10.1	2.600	1.621	5.8	21.4	9 E	—	2*
4 16	2 3.13	+ 8 41.9	2.646	1.654	4.1	21.4	7 E	—	1*
4 26	2 28.95	+11 1.4	2.690	1.689	2.7	21.4	4 E	—	—
5 6	2 54.48	+13 7.3	2.731	1.725	2.0	21.4	3 E	—	—
444193 2005 SE_{71}									
12 27	20 45.61	−33 8.8	1.944	1.235	25.4	21.2	33 E	4*	26*
1 1	21 3.47	−31 32.4	1.949	1.226	24.9	21.1	32 E	5*	25*
1 6	21 20.87	−29 47.9	1.954	1.216	24.3	21.1	31 E	6*	24*
1 11	21 37.82	−27 55.8	1.958	1.206	23.8	21.1	30 E	7*	23*
1 16	21 54.36	−25 56.8	1.961	1.195	23.2	21.0	29 E	8*	22*
1 21	22 10.49	−23 51.4	1.963	1.183	22.7	21.0	28 E	8*	20*
1 26	22 26.27	−21 40.2	1.964	1.170	22.1	21.0	27 E	9*	19*
1 31	22 41.72	−19 23.7	1.964	1.157	21.6	20.9	26 E	9*	18*
2 5	22 56.90	−17 2.2	1.963	1.143	21.0	20.9	25 E	9*	17*
2 10	23 11.85	−14 36.3	1.961	1.129	20.5	20.8	24 E	10*	15*
2 15	23 26.64	−12 6.5	1.958	1.114	20.0	20.8	23 E	10*	14*
2 20	23 41.30	− 9 33.1	1.954	1.098	19.5	20.7	22 E	10*	13*
2 25	23 55.90	− 6 56.5	1.949	1.083	19.0	20.7	21 E	10*	12*
3 2	0 10.50	− 4 17.2	1.943	1.067	18.5	20.6	20 E	10*	10*
3 7	0 25.15	− 1 35.6	1.935	1.050	18.1	20.6	19 E	10*	9*
3 12	0 39.94	+ 1 8.0	1.927	1.034	17.8	20.5	19 E	10*	8*
3 17	0 54.93	+ 3 52.9	1.917	1.017	17.5	20.5	18 E	10*	7*
3 27	1 25.83	+ 9 24.7	1.894	0.985	17.3	20.4	17 E	10*	5*
4 6	1 58.57	+14 54.4	1.866	0.953	17.7	20.3	17 E	10*	3*
4 16	2 33.98	+20 14.5	1.834	0.925	18.8	20.2	17 E	11*	2*
4 21	2 52.97	+22 47.7	1.816	0.912	19.6	20.2	18 E	12*	1*
4 26	3 12.97	+25 14.0	1.798	0.900	20.6	20.2	18 E	12*	1*
5 1	3 34.09	+27 31.6	1.780	0.890	21.7	20.1	19 E	13*	1*
5 6	3 56.42	+29 38.0	1.760	0.881	22.9	20.1	20 E	14*	1*
5 11	4 20.02	+31 30.7	1.741	0.873	24.2	20.1	21 E	15*	1*
5 16	4 44.88	+33 7.0	1.722	0.868	25.5	20.1	22 E	16*	2*
5 21	5 10.94	+34 23.9	1.703	0.864	26.9	20.1	23 E	16*	3*
5 26	5 38.02	+35 18.7	1.686	0.862	28.3	20.2	24 E	17*	4*
5 31	6 5.89	+35 49.2	1.669	0.862	29.7	20.2	25 E	18*	5*
6 5	6 34.23	+35 53.6	1.653	0.864	30.9	20.2	26 E	19*	6*
6 10	7 2.67	+35 31.1	1.640	0.867	32.1	20.2	27 E	19*	8*
6 15	7 30.80	+34 41.9	1.628	0.873	33.1	20.3	28 E	19*	10*
6 20	7 58.28	+33 27.1	1.619	0.880	34.0	20.3	29 E	20*	11*
6 25	8 24.81	+31 48.6	1.612	0.889	34.7	20.3	30 E	19*	13*
6 30	8 50.20	+29 49.1	1.608	0.900	35.3	20.4	31 E	19*	15*
7 5	9 14.35	+27 31.6	1.607	0.912	35.7	20.4	32 E	18*	17*
7 10	9 37.23	+24 59.2	1.609	0.925	35.9	20.4	32 E	18*	19*
7 15	9 58.88	+22 15.2	1.613	0.938	36.0	20.5	33 E	17*	21*
7 20	10 19.36	+19 22.4	1.621	0.953	35.9	20.5	33 E	16*	23*
7 25	10 38.79	+16 23.6	1.631	0.968	35.7	20.6	34 E	15*	24*
7 30	10 57.28	+13 21.2	1.643	0.984	35.4	20.6	34 E	13*	26*
8 4	11 14.97	+10 17.0	1.657	1.000	35.0	20.6	34 E	12*	27*
8 9	11 31.98	+ 7 13.0	1.674	1.017	34.4	20.7	35 E	11*	27*
8 14	11 48.42	+ 4 10.3	1.692	1.033	33.9	20.7	35 E	10*	28*
8 19	12 4.41	+ 1 10.3	1.711	1.050	33.2	20.8	35 E	8*	28*
8 24	12 20.03	− 1 46.1	1.732	1.066	32.5	20.8	35 E	7*	28*
8 29	12 35.40	− 4 38.3	1.753	1.082	31.8	20.8	34 E	6*	28*
9 3	12 50.61	− 7 25.6	1.776	1.098	31.0	20.9	34 E	5*	28*
9 8	13 5.73	−10 7.6	1.798	1.113	30.3	20.9	34 E	4*	28*
9 13	13 20.84	−12 43.9	1.821	1.128	29.5	20.9	34 E	2*	27*
9 18	13 36.00	−15 14.2	1.844	1.143	28.7	21.0	33 E	1*	27*
9 23	13 51.28	−17 38.1	1.867	1.157	27.9	21.0	33 E	1*	26*
9 28	14 6.75	−19 55.4	1.889	1.170	27.1	21.0	32 E	—	26*
10 3	14 22.44	−22 5.8	1.911	1.182	26.4	21.1	32 E	—	25*
10 8	14 38.43	−24 9.1	1.933	1.194	25.6	21.1	31 E	—	24*
10 13	14 54.75	−26 4.9	1.953	1.206	24.9	21.1	31 E	—	24*
10 18	15 11.42	−27 52.9	1.973	1.216	24.1	21.1	30 E	—	23*
10 23	15 28.48	−29 32.7	1.992	1.226	23.4	21.1	29 E	—	22*
10 28	15 45.95	−31 3.9	2.010	1.235	22.7	21.2	29 E	—	22*
11 2	16 3.84	−32 26.3	2.027	1.243	22.1	21.2	28 E	—	21*
11 7	16 22.16	−33 39.3	2.043	1.250	21.4	21.2	27 E	—	21*
11 12	16 40.87	−34 42.5	2.058	1.256	20.8	21.2	27 E	—	20*
11 17	16 59.95	−35 35.6	2.072	1.262	20.2	21.2	26 E	—	19*
11 22	17 19.36	−36 18.2	2.085	1.267	19.6	21.2	25 E	—	19*
11 27	17 39.04	−36 49.9	2.097	1.271	19.0	21.2	25 E	—	18*
12 2	17 58.94	−37 10.6	2.108	1.274	18.5	21.2	24 E	—	18*
12 7	18 18.96	−37 20.1	2.117	1.276	17.9	21.2	24 E	—	17*
12 12	18 39.04	−37 18.3	2.126	1.277	17.4	21.2	23 E	—	16*
12 17	18 59.07	−37 5.3	2.133	1.277	16.9	21.2	22 E	—	16*
12 22	19 18.99	−36 41.1	2.140	1.277	16.4	21.2	22 E	—	15*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
444193 2005 SE_{71}									*(continuation)*
	h m	° ′			°	m	°	°	°
12 27	19 38.71	−36 6.2	2.146	1.275	15.9	21.2	21 E	—	15*
1 1	19 58.17	−35 20.7	2.150	1.273	15.5	21.1	20 E	—	14*
1 6	20 17.32	−34 25.1	2.154	1.270	15.0	21.1	20 E	—	13*
1 11	20 36.10	−33 19.9	2.156	1.266	14.5	21.1	19 E	—	13*
1 16	20 54.48	−32 5.6	2.158	1.261	14.1	21.1	18 E	—	12*
1 21	21 12.46	−30 42.8	2.159	1.255	13.6	21.0	17 E	—	11*
23738 1998 JZ_1									
12 27	20 45.90	−21 57.9	2.346	1.610	19.3	18.4	33 E	14*	23*
1 1	21 0.72	−20 54.0	2.379	1.622	18.4	18.4	31 E	14*	21*
1 6	21 15.24	−19 46.4	2.412	1.634	17.4	18.4	30 E	14*	20*
1 11	21 29.46	−18 35.6	2.445	1.647	16.4	18.4	28 E	14*	18*
1 16	21 43.37	−17 22.1	2.479	1.660	15.5	18.4	27 E	13*	16*
1 26	22 10.31	−14 48.4	2.544	1.688	13.5	18.4	24 E	12*	13*
2 5	22 36.13	−12 8.6	2.609	1.718	11.4	18.5	20 E	10*	10*
2 15	23 0.96	− 9 25.3	2.672	1.750	9.4	18.5	17 E	8*	7*
2 25	23 24.89	− 6 41.2	2.731	1.782	7.3	18.5	13 E	5*	5*
3 7	23 48.04	− 3 58.4	2.786	1.816	5.3	18.5	10 E	2*	2*
3 17	0 10.53	− 1 18.4	2.837	1.850	3.2	18.4	6 E	—	—
3 27	0 32.43	+ 1 17.0	2.881	1.885	1.4	18.4	3 E	—	—
4 6	0 53.83	+ 3 46.7	2.919	1.921	1.5	18.4	3 W	—	—
4 16	1 14.81	+ 6 9.8	2.950	1.956	3.4	18.6	7 W	—	—
4 26	1 35.41	+ 8 25.4	2.972	1.992	5.3	18.8	11 W	—	5*
5 6	1 55.67	+10 32.7	2.986	2.027	7.3	18.9	15 W	—	9*
5 16	2 15.61	+12 31.4	2.990	2.063	9.3	19.1	19 W	1*	13*
5 26	2 35.23	+14 21.0	2.985	2.098	11.2	19.2	24 W	4*	17*
6 5	2 54.52	+16 1.4	2.970	2.133	13.1	19.3	28 W	7*	21*
6 15	3 13.45	+17 32.4	2.945	2.167	14.9	19.4	33 W	11*	25*
6 25	3 31.95	+18 54.1	2.909	2.201	16.6	19.4	38 W	16*	28*
7 5	3 49.96	+20 6.8	2.863	2.234	18.2	19.5	43 W	22*	30*
7 15	4 7.38	+21 10.7	2.807	2.266	19.7	19.5	49 W	28*	33*
7 25	4 24.09	+22 6.4	2.740	2.297	21.0	19.5	54 W	34*	34*
8 4	4 39.96	+22 54.5	2.665	2.328	22.2	19.5	60 W	41*	36*
8 14	4 54.81	+23 36.1	2.580	2.358	23.1	19.5	66 W	48*	37*
8 24	5 8.43	+24 12.0	2.488	2.387	23.8	19.5	73 W	55*	38*
9 3	5 20.60	+24 43.6	2.389	2.415	24.2	19.4	79 W	62*	38*
9 13	5 31.02	+25 12.1	2.285	2.443	24.3	19.4	87 W	67*	38*
9 23	5 39.38	+25 38.9	2.178	2.469	23.9	19.3	95 W	70*	38*
10 3	5 45.33	+26 5.3	2.071	2.494	23.0	19.2	103 W	71	38
10 13	5 48.46	+26 32.2	1.967	2.519	21.5	19.0	112 W	72	37
10 23	5 48.41	+26 59.8	1.870	2.542	19.4	18.9	122 W	72	37
11 2	5 44.94	+27 27.4	1.785	2.564	16.5	18.7	133 W	72	37
11 12	5 37.99	+27 52.8	1.717	2.586	13.0	18.5	144 W	73	36
11 17	5 33.32	+28 3.7	1.691	2.596	10.9	18.4	150 W	73	36
11 22	5 27.97	+28 12.8	1.671	2.606	8.8	18.3	156 W	73	36
11 27	5 22.05	+28 19.7	1.658	2.615	6.6	18.2	162 W	73	36
12 2	5 15.73	+28 24.1	1.652	2.625	4.4	18.1	168 W	73	36
12 7	5 9.18	+28 25.8	1.653	2.634	2.5	18.0	173 W	73	36
12 12	5 2.60	+28 24.8	1.662	2.643	2.3	18.0	174 E	73	36
12 17	4 56.19	+28 21.2	1.678	2.652	3.9	18.1	169 E	73	36
12 22	4 50.12	+28 15.6	1.702	2.660	6.0	18.3	164 E	73	36
12 27	4 44.56	+28 8.3	1.733	2.668	8.1	18.4	157 E	73	36
1 1	4 39.62	+27 59.9	1.770	2.676	10.1	18.5	151 E	73	36
1 6	4 35.41	+27 51.0	1.814	2.683	12.0	18.7	146 E	73	36
1 11	4 32.00	+27 42.1	1.864	2.691	13.7	18.8	140 E	73	36
1 16	4 29.42	+27 33.8	1.919	2.698	15.2	18.9	134 E	73	36
1 21	4 27.68	+27 26.3	1.978	2.704	16.5	19.0	129 E	72	37
416294 2003 QK_{99}									
12 27	20 45.96	−29 1.6	2.409	1.664	18.4	21.1	32 E	8*	25*
1 1	21 0.25	−27 26.4	2.436	1.667	17.5	21.1	31 E	8*	23*
1 6	21 14.17	−25 48.0	2.462	1.671	16.6	21.1	29 E	9*	21*
1 11	21 27.71	−24 6.9	2.488	1.675	15.6	21.1	27 E	9*	19*
1 16	21 40.90	−22 23.4	2.514	1.681	14.6	21.0	26 E	9*	18*
1 21	21 53.75	−20 38.1	2.540	1.687	13.6	21.0	24 E	9*	16*
1 26	22 6.28	−18 51.3	2.566	1.693	12.6	21.0	22 E	8*	14*
1 31	22 18.52	−17 3.4	2.591	1.701	11.5	21.0	20 E	8*	12*
2 5	22 30.49	−15 14.6	2.616	1.708	10.5	21.0	18 E	7*	10*
2 10	22 42.20	−13 25.4	2.640	1.717	9.4	21.0	17 E	6*	8*
2 15	22 53.69	−11 35.9	2.664	1.726	8.3	21.0	15 E	5*	7*
2 20	23 4.97	− 9 46.5	2.686	1.736	7.2	21.0	13 E	4*	5*
2 25	23 16.05	− 7 57.2	2.708	1.746	6.1	21.0	11 E	2*	3*
3 2	23 26.96	− 6 8.5	2.729	1.757	5.1	20.9	9 E	1*	1*
3 7	23 37.72	− 4 20.4	2.749	1.768	4.0	20.9	7 E	—	—
3 12	23 48.34	− 2 33.0	2.767	1.780	2.9	20.9	5 E	—	—
3 17	23 58.85	− 0 46.6	2.785	1.792	1.8	20.8	3 E	—	—
3 22	0 9.24	+ 0 58.8	2.801	1.805	0.7	20.7	1 E	—	—
3 27	0 19.54	+ 2 42.9	2.815	1.818	0.5	20.7	1 W	—	—
4 1	0 29.76	+ 4 25.7	2.828	1.831	1.6	20.9	3 W	—	—
4 6	0 39.91	+ 6 7.1	2.840	1.845	2.6	21.0	5 W	—	—
4 11	0 50.01	+ 7 47.0	2.850	1.859	3.7	21.1	7 W	—	—

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		416294 2003 QK_{99}				*(continuation)*			
	h m	° ′			°	m	°	°	°
4 16	1 0.07	+9 25.3	2.858	1.873	4.8	21.2	9 W	—	2*
4 21	1 10.09	+11 2.0	2.864	1.888	5.8	21.2	11 W	1*	4*
4 26	1 20.08	+12 36.9	2.869	1.903	6.9	21.3	13 W	2*	6*
5 1	1 30.05	+14 10.0	2.872	1.918	7.9	21.4	15 W	4*	8*
5 6	1 40.01	+15 41.3	2.873	1.933	8.9	21.4	17 W	5*	10*
5 11	1 49.96	+17 10.7	2.872	1.949	9.9	21.5	19 W	6*	11*
		6487 Tonyspear							
12 27	20 46.02	−8 18.3	2.460	1.780	19.5	17.8	37 E	26*	18*
1 6	21 12.35	−7 32.3	2.544	1.808	17.5	17.8	34 E	24*	14*
1 16	21 38.00	−6 34.5	2.627	1.837	15.3	17.9	30 E	22*	11*
1 26	22 2.92	−5 27.0	2.707	1.868	13.2	17.9	26 E	18*	7*
2 5	22 27.11	−4 12.1	2.784	1.901	10.9	17.9	21 E	15*	5*
2 15	22 50.61	−2 51.9	2.856	1.934	8.7	17.9	17 E	11*	2*
2 25	23 13.44	−1 28.3	2.921	1.968	6.4	17.9	13 E	7*	—
3 7	23 35.65	−0 3.4	2.979	2.003	4.1	17.9	8 E	2*	—
3 17	23 57.29	+1 21.4	3.030	2.038	1.9	17.8	4 E	—	—
3 27	0 18.39	+2 44.3	3.071	2.074	0.6	17.7	1 W	—	—
4 6	0 39.00	+4 4.1	3.103	2.110	2.6	18.0	6 W	—	—
4 16	0 59.15	+5 19.4	3.125	2.146	4.8	18.1	10 W	—	4*
4 26	1 18.85	+6 29.2	3.137	2.181	6.9	18.3	15 W	—	9*
5 6	1 38.11	+7 32.3	3.138	2.217	9.0	18.4	20 W	—	14*
5 16	1 56.93	+8 27.9	3.127	2.253	11.0	18.5	25 W	1*	19*
5 26	2 15.28	+9 15.1	3.106	2.288	12.9	18.6	30 W	4*	24*
6 5	2 33.13	+9 53.1	3.073	2.323	14.7	18.7	35 W	7*	29*
6 15	2 50.43	+10 21.2	3.030	2.357	16.4	18.8	41 W	10*	33*
6 25	3 7.10	+10 38.8	2.976	2.391	17.9	18.8	46 W	15*	38*
7 5	3 23.04	+10 45.4	2.912	2.425	19.3	18.8	52 W	20*	42*
7 15	3 38.16	+10 40.4	2.839	2.458	20.5	18.8	58 W	26*	45*
7 25	3 52.29	+10 23.4	2.757	2.490	21.6	18.8	64 W	32*	48*
8 4	4 5.29	+9 54.1	2.668	2.521	22.3	18.8	71 W	38*	51*
8 14	4 16.96	+9 12.2	2.573	2.552	22.8	18.8	77 W	43*	53*
8 24	4 27.09	+8 17.5	2.474	2.582	22.9	18.7	85 W	48*	55*
9 3	4 35.44	+7 10.2	2.372	2.611	22.7	18.6	92 W	50*	57
9 13	4 41.73	+5 50.7	2.272	2.640	22.0	18.6	100 W	51*	58
9 23	4 45.70	+4 20.0	2.175	2.667	20.9	18.4	108 W	49	60
10 3	4 47.12	+2 40.1	2.085	2.694	19.3	18.3	117 W	48	61
10 13	4 45.81	+0 53.9	2.007	2.720	17.2	18.2	126 W	46	63
10 18	4 44.13	−0 0.1	1.974	2.733	16.0	18.1	131 W	45	64
10 23	4 41.78	−0 53.7	1.945	2.745	14.7	18.1	136 W	44	65
10 28	4 38.79	−1 46.1	1.922	2.758	13.4	18.0	140 W	43	66
11 2	4 35.23	−2 36.5	1.904	2.770	12.1	17.9	144 W	42	67
11 7	4 31.16	−3 23.8	1.892	2.781	10.9	17.9	148 W	42	67
11 12	4 26.68	−4 7.2	1.886	2.793	9.9	17.9	151 W	41	68
11 17	4 21.91	−4 45.7	1.887	2.804	9.2	17.8	153 W	40	69
11 22	4 16.96	−5 18.7	1.896	2.815	8.9	17.8	154 W	40	69
12 2	4 7.06	−6 6.0	1.932	2.837	9.6	17.9	151 E	39	70
12 12	3 57.96	−6 26.8	1.996	2.858	11.4	18.1	145 E	39	70
12 22	3 50.53	−6 22.1	2.083	2.878	13.6	18.3	137 E	39	70
1 1	3 45.27	−5 55.5	2.191	2.896	15.6	18.5	128 E	39	70
1 11	3 42.44	−5 11.5	2.314	2.914	17.3	18.7	118 E	40	69
1 21	3 42.05	−4 15.0	2.450	2.931	18.4	18.8	110 E	41	68
		120900 1998 SP_{25}							
12 27	20 46.32	−21 14.6	2.399	1.663	18.8	20.5	33 E	15*	23*
1 6	21 14.31	−19 14.2	2.441	1.660	17.1	20.4	30 E	15*	19*
1 16	21 41.82	−16 59.0	2.481	1.659	15.3	20.4	26 E	14*	16*
1 26	22 8.80	−14 31.3	2.520	1.661	13.5	20.4	23 E	12*	13*
2 5	22 35.21	−11 53.8	2.557	1.666	11.7	20.4	20 E	10*	10*
2 15	23 1.10	−9 9.2	2.593	1.673	9.9	20.3	17 E	8*	7*
2 25	23 26.51	−6 20.1	2.627	1.682	8.0	20.3	14 E	5*	5*
3 7	23 51.48	−3 29.2	2.660	1.694	6.2	20.2	11 E	3*	2*
3 17	0 16.10	−0 38.7	2.690	1.708	4.3	20.2	7 E	—	—
3 27	0 40.43	+2 9.0	2.717	1.724	2.5	20.1	4 E	—	—
4 6	1 4.53	+4 52.0	2.742	1.742	1.1	20.1	2 E	—	—
4 16	1 28.47	+7 28.3	2.763	1.761	1.8	20.2	3 W	—	—
4 26	1 52.29	+9 56.4	2.780	1.783	3.5	20.3	6 W	—	—
5 6	2 16.02	+12 14.9	2.792	1.805	5.4	20.5	10 W	—	4*
5 16	2 39.68	+14 22.6	2.800	1.829	7.2	20.6	13 W	—	7*
5 26	3 3.25	+16 18.6	2.802	1.854	9.0	20.7	17 W	1*	10*
6 5	3 26.72	+18 2.0	2.797	1.880	10.8	20.8	20 W	3*	14*
6 15	3 50.05	+19 32.6	2.787	1.907	12.6	20.9	24 W	7*	16*
6 25	4 13.15	+20 50.0	2.769	1.934	14.4	21.0	28 W	10*	19*
7 5	4 35.97	+21 54.3	2.744	1.962	16.1	21.0	32 W	15*	22*
7 15	4 58.40	+22 45.8	2.711	1.990	17.7	21.1	37 W	20*	24*
7 25	5 20.31	+23 25.1	2.671	2.019	19.3	21.1	41 W	25*	25*
8 4	5 41.60	+23 53.1	2.622	2.047	20.8	21.2	46 W	31*	27*
8 14	6 2.14	+24 10.9	2.564	2.076	22.2	21.2	51 W	37*	29*
8 24	6 21.76	+24 19.8	2.499	2.104	23.4	21.2	56 W	43*	30*
9 3	6 40.35	+24 21.4	2.426	2.133	24.5	21.2	61 W	49*	31*
9 13	6 57.70	+24 17.7	2.345	2.161	25.4	21.2	67 W	54*	33*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		120900 1998 SP_{25}				*(continuation)*			
	h m	° ′			°	m	°	°	°
9 23	7 13.65	+24 10.6	2.258	2.189	26.0	21.2	73 W	60*	34*
10 3	7 27.99	+24 2.5	2.164	2.216	26.4	21.1	80 W	65*	36*
10 13	7 40.45	+23 55.8	2.066	2.243	26.4	21.0	87 W	68*	37*
10 23	7 50.77	+23 53.2	1.966	2.269	25.9	20.9	94 W	69	39*
11 2	7 58.60	+23 57.2	1.866	2.295	25.0	20.8	103 W	69	40*
11 12	8 3.57	+24 10.2	1.768	2.321	23.4	20.7	111 W	69	40
11 22	8 5.31	+24 33.9	1.676	2.345	21.1	20.5	121 W	70	39
12 2	8 3.51	+25 8.4	1.596	2.370	18.1	20.3	132 W	70	39
12 12	7 58.04	+25 52.1	1.531	2.393	14.3	20.1	143 W	71	38
12 17	7 54.00	+26 16.2	1.506	2.404	12.1	20.0	149 W	71	38
12 22	7 49.18	+26 40.7	1.487	2.415	9.9	19.9	155 W	72	37
12 27	7 43.71	+27 4.8	1.475	2.426	7.5	19.8	161 W	72	37
1 1	7 37.72	+27 27.8	1.469	2.437	5.1	19.7	167 W	72	37
1 6	7 31.40	+27 48.7	1.470	2.448	3.1	19.6	172 W	73	36
1 11	7 24.96	+28 6.9	1.479	2.458	2.5	19.6	174 E	73	36
1 16	7 18.62	+28 21.9	1.494	2.469	4.0	19.7	170 E	73	36
1 21	7 12.57	+28 33.4	1.517	2.479	6.2	19.9	164 E	74	35
		276891 2004 RH_{340}							
12 27	20 46.96	+41 25.6	0.304	0.939	89.2	19.8	73 E	62*	—
12 29	20 49.90	+44 38.9	0.315	0.951	86.6	19.8	75 E	62*	—
12 31	20 52.88	+47 38.0	0.326	0.962	84.1	19.8	77 E	61*	—
1 2	20 55.94	+50 24.1	0.337	0.973	81.7	19.8	78 E	61*	—
1 4	20 59.12	+52 58.4	0.349	0.985	79.5	19.9	80 E	60*	—
1 6	21 2.45	+55 22.3	0.361	0.997	77.4	19.9	82 E	59*	—
1 8	21 5.98	+57 36.8	0.373	1.009	75.3	19.9	83 E	58*	—
1 10	21 9.77	+59 43.0	0.386	1.021	73.4	19.9	84 E	57*	—
1 12	21 13.85	+61 42.1	0.398	1.033	71.6	20.0	86 E	56*	—
1 14	21 18.28	+63 34.7	0.411	1.046	69.9	20.0	87 E	56*	—
1 16	21 23.13	+65 21.8	0.423	1.058	68.3	20.1	88 E	55*	—
1 18	21 28.46	+67 3.9	0.436	1.070	66.8	20.1	89 E	54*	—
1 20	21 34.37	+68 41.6	0.448	1.083	65.3	20.1	90 E	53*	—
1 22	21 40.97	+70 15.4	0.460	1.095	63.9	20.2	91 E	53*	—
1 24	21 48.39	+71 45.5	0.473	1.108	62.6	20.2	92 E	52*	—
1 26	21 56.81	+73 12.2	0.485	1.120	61.4	20.3	93 E	52*	—
1 27	22 1.47	+73 54.4	0.491	1.127	60.7	20.3	93 E	51*	—
1 28	22 6.47	+74 35.8	0.498	1.133	60.2	20.3	94 E	51*	—
1 29	22 11.85	+75 16.3	0.504	1.139	59.6	20.3	94 E	51*	—
1 30	22 17.65	+75 56.1	0.510	1.145	59.0	20.4	95 E	51*	—
1 31	22 23.94	+76 35.0	0.516	1.151	58.5	20.4	95 E	51*	—
2 1	22 30.76	+77 13.1	0.522	1.158	57.9	20.4	95 E	51*	—
2 2	22 38.19	+77 50.2	0.528	1.164	57.4	20.4	96 E	50*	—
2 3	22 46.31	+78 26.4	0.535	1.170	56.9	20.4	96 E	50*	—
2 4	22 55.21	+79 1.6	0.541	1.176	56.4	20.5	96 E	50*	—
2 5	23 4.98	+79 35.6	0.547	1.182	55.9	20.5	97 E	50*	—
2 6	23 15.74	+80 8.3	0.553	1.188	55.4	20.5	97 E	50*	—
2 7	23 27.62	+80 39.7	0.559	1.195	55.0	20.5	97 E	50*	—
2 8	23 40.74	+81 9.4	0.565	1.201	54.5	20.5	98 E	50*	—
2 9	23 55.24	+81 37.2	0.572	1.207	54.1	20.6	98 E	50*	—
2 10	0 11.25	+82 3.0	0.578	1.213	53.6	20.6	98 E	50*	—
2 11	0 28.86	+82 26.4	0.584	1.219	53.2	20.6	99 E	50*	—
2 12	0 48.15	+82 47.0	0.590	1.225	52.8	20.6	99 E	50*	—
2 13	1 9.08	+83 4.5	0.596	1.231	52.4	20.7	99 E	51*	—
2 14	1 31.55	+83 18.5	0.603	1.237	52.0	20.7	99 E	51*	—
2 15	1 55.32	+83 28.7	0.609	1.243	51.6	20.7	99 E	51*	—
2 16	2 20.02	+83 34.8	0.615	1.249	51.2	20.7	100 E	51*	—
2 17	2 45.17	+83 36.7	0.622	1.255	50.9	20.7	100 E	51*	—
2 18	3 10.25	+83 34.3	0.628	1.261	50.5	20.8	100 E	51*	—
2 19	3 34.73	+83 27.7	0.634	1.267	50.2	20.8	100 E	51*	—
2 20	3 58.18	+83 17.2	0.641	1.272	49.8	20.8	101 E	52*	—
2 21	4 20.27	+83 3.1	0.647	1.278	49.5	20.8	101 E	52	—
2 22	4 40.80	+82 45.7	0.654	1.284	49.2	20.9	101 E	52	—
2 23	4 59.68	+82 25.5	0.660	1.290	48.8	20.9	101 E	53	—
2 24	5 16.94	+82 2.7	0.667	1.296	48.5	20.9	101 E	53	—
2 25	5 32.64	+81 37.9	0.673	1.301	48.2	20.9	101 E	53	—
2 26	5 46.90	+81 11.3	0.680	1.307	47.9	20.9	101 E	54	—
2 27	5 59.84	+80 43.2	0.687	1.313	47.7	21.0	102 E	54	—
2 28	6 11.61	+80 13.7	0.693	1.319	47.4	21.0	102 E	55	—
3 1	6 22.33	+79 43.2	0.700	1.324	47.1	21.0	102 E	55	—
3 2	6 32.11	+79 11.8	0.707	1.330	46.8	21.0	102 E	56	—
3 3	6 41.08	+78 39.5	0.714	1.335	46.6	21.1	102 E	56	—
3 4	6 49.32	+78 6.6	0.721	1.341	46.3	21.1	102 E	57	—
3 5	6 56.93	+77 33.2	0.728	1.346	46.1	21.1	102 E	57	—
3 6	7 3.97	+76 59.3	0.735	1.352	45.9	21.1	102 E	58	—
3 7	7 10.52	+76 25.0	0.742	1.357	45.6	21.2	102 E	59	—
3 8	7 16.63	+75 50.3	0.749	1.363	45.4	21.2	102 E	59	—
3 9	7 22.35	+75 15.4	0.756	1.368	45.2	21.2	102 E	60	—
3 10	7 27.72	+74 40.2	0.763	1.374	45.0	21.2	102 E	60	—
3 11	7 32.78	+74 4.9	0.771	1.379	44.8	21.2	102 E	61	—
3 12	7 37.56	+73 29.3	0.778	1.384	44.6	21.3	102 E	62	—
3 13	7 42.10	+72 53.7	0.786	1.390	44.4	21.3	102 E	62	—

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
276891 2004 RH_{340} *(continuation)*									
	h m	° ′			°	m	°	°	°
3 14	7 46.41	+72 17.9	0.793	1.395	44.2	21.3	102 E	63	—
3 15	7 50.52	+71 42.1	0.801	1.400	44.0	21.3	102 E	63	—
3 16	7 54.45	+71 6.2	0.808	1.405	43.8	21.4	102 E	64	—
3 17	7 58.22	+70 30.3	0.816	1.410	43.7	21.4	102 E	64	—
3 19	8 5.32	+69 18.5	0.832	1.421	43.3	21.4	102 E	66	—
3 21	8 11.92	+68 6.8	0.847	1.431	43.0	21.5	102 E	67	—
3 23	8 18.10	+66 55.2	0.864	1.441	42.7	21.5	101 E	68	—
3 25	8 23.92	+65 44.0	0.880	1.451	42.4	21.6	101 E	69	—
162421 2000 ET_{70}									
12 27	20 47.71	−12 1.0	1.398	0.835	43.8	20.0	36 E	23*	20*
1 1	21 7.22	− 9 7.9	1.380	0.832	44.8	20.0	37 E	25*	18*
1 6	21 26.46	− 6 9.6	1.362	0.830	45.8	20.0	37 E	27*	17*
1 11	21 45.57	− 3 7.8	1.343	0.830	46.8	20.0	38 E	29*	15*
1 16	22 4.65	− 0 3.8	1.324	0.830	47.9	20.0	39 E	31*	14*
1 21	22 23.83	+ 3 0.9	1.305	0.832	48.9	20.0	40 E	32*	12*
1 26	22 43.23	+ 6 4.7	1.286	0.836	50.0	20.0	41 E	34*	11*
1 31	23 2.98	+ 9 6.0	1.267	0.840	51.0	20.0	41 E	35*	10*
2 5	23 23.21	+12 3.0	1.249	0.846	51.9	20.0	42 E	36*	10*
2 10	23 44.05	+14 54.0	1.231	0.853	52.8	20.0	43 E	37*	9*
2 15	0 5.61	+17 37.1	1.215	0.860	53.6	20.1	45 E	38*	9*
2 20	0 27.97	+20 10.1	1.200	0.869	54.3	20.1	46 E	39*	9*
2 25	0 51.18	+22 30.9	1.187	0.878	54.9	20.1	47 E	40*	9*
3 2	1 15.26	+24 37.3	1.175	0.888	55.3	20.1	47 E	41*	10*
3 7	1 40.18	+26 26.9	1.166	0.898	55.7	20.1	48 E	42*	11*
3 12	2 5.86	+27 57.9	1.158	0.909	55.9	20.1	49 E	43*	12*
3 17	2 32.13	+29 8.8	1.153	0.920	56.0	20.2	50 E	44*	13*
3 22	2 58.79	+29 58.2	1.151	0.931	56.0	20.2	51 E	44*	15*
3 27	3 25.57	+30 25.7	1.151	0.942	55.9	20.2	51 E	45*	16*
4 1	3 52.22	+30 31.4	1.153	0.953	55.7	20.2	52 E	45*	18*
4 6	4 18.46	+30 16.1	1.158	0.963	55.4	20.3	52 E	45*	20*
4 11	4 44.09	+29 41.2	1.165	0.974	55.0	20.3	53 E	44*	22*
4 16	5 8.90	+28 48.7	1.173	0.984	54.6	20.3	53 E	43*	24*
4 21	5 32.78	+27 40.7	1.183	0.994	54.1	20.3	53 E	42*	26*
4 26	5 55.63	+26 19.2	1.195	1.003	53.6	20.4	53 E	41*	28*
5 1	6 17.45	+24 46.6	1.208	1.012	53.1	20.4	53 E	39*	30*
5 6	6 38.25	+23 4.8	1.222	1.020	52.5	20.4	53 E	37*	32*
5 11	6 58.10	+21 15.7	1.236	1.028	52.0	20.4	53 E	35*	34*
5 16	7 17.05	+19 20.8	1.251	1.035	51.4	20.5	53 E	32*	36*
5 21	7 35.20	+17 21.4	1.266	1.041	50.9	20.5	53 E	29*	37*
5 26	7 52.62	+15 18.8	1.281	1.046	50.4	20.5	53 E	27*	39*
5 31	8 9.40	+13 13.7	1.295	1.051	49.9	20.5	52 E	24*	40*
6 5	8 25.64	+11 6.9	1.309	1.055	49.4	20.5	52 E	21*	41*
6 10	8 41.43	+ 8 59.0	1.322	1.059	49.0	20.6	52 E	18*	42*
6 15	8 56.85	+ 6 50.4	1.334	1.061	48.6	20.6	52 E	15*	43*
6 20	9 11.98	+ 4 41.5	1.345	1.063	48.2	20.6	51 E	13*	44*
6 25	9 26.88	+ 2 32.5	1.355	1.064	47.9	20.6	51 E	10*	44*
6 30	9 41.64	+ 0 23.8	1.363	1.064	47.6	20.6	51 E	8*	44*
7 5	9 56.34	− 1 44.4	1.370	1.063	47.4	20.6	50 E	5*	44*
7 10	10 11.03	− 3 52.0	1.375	1.061	47.2	20.6	50 E	4*	44*
7 15	10 25.80	− 5 58.7	1.379	1.059	47.0	20.6	50 E	2*	44*
7 20	10 40.70	− 8 4.3	1.382	1.056	47.0	20.6	49 E	—	43*
7 25	10 55.79	−10 8.4	1.382	1.052	46.9	20.6	49 E	—	43*
7 30	11 11.15	−12 10.7	1.382	1.047	47.0	20.6	49 E	—	42*
8 4	11 26.84	−14 10.7	1.379	1.042	47.0	20.6	49 E	—	41*
8 9	11 42.95	−16 8.0	1.375	1.036	47.2	20.6	49 E	—	41*
8 14	11 59.53	−18 2.0	1.370	1.029	47.4	20.5	48 E	—	40*
8 19	12 16.64	−19 51.8	1.363	1.022	47.6	20.5	48 E	—	40*
8 24	12 34.36	−21 36.8	1.355	1.014	47.9	20.5	48 E	—	39*
8 29	12 52.72	−23 15.7	1.346	1.005	48.2	20.5	48 E	—	39*
9 3	13 11.80	−24 47.5	1.336	0.996	48.6	20.4	48 E	—	39*
9 8	13 31.62	−26 11.1	1.325	0.986	49.1	20.4	48 E	—	39*
9 13	13 52.21	−27 24.9	1.312	0.976	49.5	20.4	48 E	—	39*
9 18	14 13.54	−28 27.6	1.299	0.966	50.1	20.4	47 E	—	39*
9 23	14 35.58	−29 17.4	1.286	0.955	50.6	20.3	47 E	—	39*
9 28	14 58.27	−29 53.0	1.271	0.944	51.2	20.3	47 E	—	40*
10 3	15 21.51	−30 12.9	1.257	0.933	51.9	20.3	47 E	1*	40*
10 8	15 45.17	−30 15.9	1.241	0.922	52.5	20.2	47 E	2*	40*
10 13	16 9.08	−30 1.2	1.226	0.911	53.2	20.2	47 E	4*	41*
10 18	16 33.06	−29 28.0	1.210	0.900	54.0	20.2	47 E	6*	41*
10 23	16 56.93	−28 36.1	1.194	0.890	54.7	20.1	47 E	8*	41*
10 28	17 20.51	−27 25.7	1.177	0.880	55.5	20.1	47 E	10*	41*
11 2	17 43.68	−25 57.6	1.161	0.871	56.3	20.1	47 E	12*	41*
11 7	18 6.31	−24 12.6	1.144	0.862	57.2	20.0	47 E	15*	40*
11 12	18 28.33	−22 12.1	1.127	0.854	58.0	20.0	47 E	17*	39*
11 17	18 49.67	−19 57.5	1.109	0.847	58.9	20.0	47 E	20*	38*
11 22	19 10.33	−17 30.5	1.091	0.841	59.8	20.0	47 E	23*	36*
11 27	19 30.35	−14 52.9	1.073	0.836	60.7	19.9	48 E	25*	35*
12 2	19 49.79	−12 6.4	1.055	0.833	61.7	19.9	48 E	28*	33*
12 7	20 8.74	− 9 12.8	1.035	0.831	62.6	19.9	48 E	31*	30*
12 12	20 27.29	− 6 13.6	1.016	0.830	63.6	19.9	49 E	33*	28*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
162421 2000 ET_{70} *(continuation)*									
	h m	° ′			°	m	°	°	°
12 17	20 45.54	− 3 10.4	0.995	0.830	64.5	19.9	50 E	36*	26*
12 22	21 3.65	− 0 4.9	0.975	0.832	65.4	19.9	50 E	38*	23*
12 27	21 21.75	+ 3 1.6	0.954	0.834	66.4	19.8	51 E	41*	21*
1 1	21 40.01	+ 6 7.7	0.932	0.839	67.2	19.8	52 E	43*	19*
1 6	21 58.61	+ 9 12.2	0.911	0.844	68.0	19.8	53 E	45*	17*
1 11	22 17.70	+12 13.5	0.889	0.850	68.8	19.8	54 E	46*	15*
1 16	22 37.47	+15 10.1	0.868	0.858	69.5	19.8	55 E	48*	14*
1 21	22 58.10	+18 0.2	0.847	0.866	70.1	19.8	56 E	49*	12*
501647 2014 SD_{224}									
12 27	20 48.14	+32 16.1	0.021	0.975	113.4	18.3	65 E	58*	—
12 28	20 29.31	+19 31.7	0.024	0.969	126.9	19.5	52 E	46*	1*
12 29	20 16.64	+ 9 30.6	0.027	0.963	137.4	20.9	41 E	35*	2*
334044 2001 FS_{116}									
12 27	20 48.71	− 2 22.0	3.696	3.022	12.3	20.8	41 E	32*	16*
1 6	21 2.35	− 2 12.3	3.744	2.986	10.7	20.7	34 E	27*	10*
1 16	21 16.49	− 1 52.9	3.778	2.948	9.1	20.6	28 E	22*	4*
1 26	21 31.03	− 1 24.6	3.796	2.910	7.4	20.6	22 E	16*	—
2 5	21 45.90	− 0 48.1	3.799	2.871	5.8	20.4	17 E	10*	—
2 15	22 1.05	− 0 4.4	3.786	2.831	4.4	20.3	13 E	4*	—
2 25	22 16.41	+ 0 45.7	3.757	2.790	3.8	20.3	11 W	4*	—
3 7	22 31.97	+ 1 41.1	3.713	2.749	4.2	20.2	12 W	6*	—
3 17	22 47.69	+ 2 40.9	3.653	2.706	5.6	20.2	15 W	7*	5*
3 27	23 3.56	+ 3 44.1	3.579	2.663	7.3	20.2	20 W	9*	11*
4 6	23 19.57	+ 4 49.6	3.492	2.619	9.3	20.2	25 W	10*	17*
4 16	23 35.74	+ 5 56.3	3.392	2.574	11.3	20.2	30 W	12*	22*
4 26	23 52.05	+ 7 3.0	3.281	2.528	13.3	20.2	35 W	14*	27*
5 6	0 8.53	+ 8 8.5	3.159	2.482	15.4	20.1	41 W	16*	32*
5 16	0 25.18	+ 9 11.4	3.027	2.435	17.4	20.1	46 W	18*	37*
5 26	0 42.02	+10 10.2	2.887	2.387	19.3	20.0	51 W	21*	41*
6 5	0 59.05	+11 3.3	2.740	2.339	21.2	19.9	57 W	24*	44*
6 15	1 16.30	+11 48.8	2.588	2.291	23.0	19.8	62 W	28*	47*
6 25	1 33.73	+12 24.6	2.432	2.242	24.7	19.6	67 W	32*	49*
7 5	1 51.35	+12 48.4	2.273	2.193	26.2	19.5	73 W	37*	50*
7 15	2 9.11	+12 57.2	2.112	2.144	27.6	19.3	78 W	42*	51*
7 25	2 26.94	+12 47.7	1.953	2.095	28.8	19.1	83 W	47*	51
7 30	2 35.86	+12 35.0	1.873	2.071	29.3	19.0	86 W	49*	51
8 4	2 44.77	+12 16.2	1.795	2.046	29.7	18.9	89 W	51*	52
8 9	2 53.63	+11 50.8	1.717	2.022	30.1	18.8	92 W	52*	52
8 14	3 2.42	+11 18.1	1.641	1.998	30.4	18.7	95 W	54*	53
8 19	3 11.13	+10 37.5	1.566	1.974	30.5	18.6	98 W	54*	53
8 24	3 19.72	+ 9 48.4	1.493	1.950	30.6	18.4	101 W	54*	54
8 29	3 28.17	+ 8 50.1	1.422	1.927	30.7	18.3	103 W	54*	55
9 3	3 36.43	+ 7 41.8	1.354	1.903	30.6	18.2	106 W	53	56
9 8	3 44.45	+ 6 22.9	1.287	1.880	30.4	18.0	109 W	51	58
9 13	3 52.18	+ 4 52.7	1.224	1.857	30.1	17.9	112 W	50	59
9 23	4 6.59	+ 1 17.0	1.108	1.813	29.2	17.6	118 W	46	63
10 3	4 19.21	− 3 6.6	1.007	1.770	28.0	17.3	124 W	42	67
10 13	4 29.47	− 8 13.9	0.923	1.729	26.9	17.0	128 W	37	72
10 18	4 33.57	−11 0.1	0.888	1.710	26.4	16.9	130 W	34	75
10 23	4 36.91	−13 51.6	0.859	1.691	26.1	16.8	132 W	31	78
10 28	4 39.44	−16 45.3	0.834	1.673	26.0	16.7	132 W	28	81
11 2	4 41.14	−19 37.6	0.814	1.656	26.2	16.6	133 W	25	84
11 7	4 42.00	−22 24.5	0.799	1.639	26.5	16.6	132 W	23	86
11 12	4 42.06	−25 2.0	0.788	1.624	27.1	16.6	132 W	20	89
11 17	4 41.40	−27 26.4	0.781	1.609	27.9	16.5	130 W	18	89
11 22	4 40.13	−29 34.7	0.778	1.595	28.8	16.5	129 W	15	86
11 27	4 38.40	−31 24.4	0.778	1.583	29.8	16.5	127 W	14	85
12 2	4 36.37	−32 53.7	0.780	1.571	30.9	16.6	125 W	12	83
12 7	4 34.26	−34 1.4	0.785	1.560	31.9	16.6	123 E	11	82
12 12	4 32.30	−34 47.2	0.792	1.551	32.9	16.6	121 E	10	81
12 17	4 30.71	−35 11.7	0.800	1.543	33.8	16.7	119 E	10	81
12 22	4 29.66	−35 15.8	0.810	1.536	34.6	16.7	118 E	10	81
12 27	4 29.32	−35 0.6	0.820	1.530	35.4	16.7	116 E	10	81
1 1	4 29.79	−34 27.5	0.832	1.526	36.0	16.8	114 E	11	82
1 6	4 31.17	−33 37.9	0.844	1.523	36.5	16.8	113 E	11	82
1 11	4 33.53	−32 33.4	0.856	1.521	37.0	16.9	111 E	12	83
1 16	4 36.86	−31 15.9	0.870	1.521	37.4	16.9	110 E	14	85
1 21	4 41.16	−29 46.7	0.884	1.522	37.7	17.0	109 E	15	86
371513 2006 UP_{82}									
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*
1 26	22 10.16	−11 45.8	2.524	1.677	14.0	21.1	24 E	15*	12*
2 5	22 36.09	− 8 59.8	2.568	1.687	12.2	21.1	21 E	13*	9*
2 15	23 1.49	− 6 8.6	2.612	1.700	10.3	21.1	18 E	10*	6*
2 25	23 26.39	− 3 14.9	2.655	1.716	8.4	21.1	15 E	8*	3*
3 7	23 50.86	− 0 21.1	2.695	1.734	6.5	21.0	11 E	5*	1*

371513 2006 UP_{82} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 17	0 14.97	+ 2 30.7	2.734	1.755	4.6	21.0	8 E	2*	—
3 27	0 38.78	+ 5 18.2	2.770	1.778	2.7	20.9	5 E	—	—
4 6	1 2.34	+ 7 59.8	2.803	1.803	1.0	20.9	2 E	—	—
4 16	1 25.73	+10 33.9	2.832	1.830	1.4	21.0	3 W	—	—
4 26	1 48.96	+12 59.0	2.856	1.858	3.2	21.1	6 W	—	—
5 6	2 12.05	+15 14.0	2.875	1.888	5.1	21.3	10 W	—	3*
5 16	2 35.03	+17 18.0	2.888	1.919	7.0	21.4	13 W	1*	7*

100446 1996 RC_4

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 49.33	− 7 18.5	2.399	1.740	20.6	21.0	38 E	28*	18*
1 6	21 13.58	− 7 12.9	2.436	1.710	18.7	21.0	34 E	25*	14*
1 16	21 38.28	− 6 52.9	2.465	1.680	16.8	20.9	30 E	21*	11*
1 26	22 3.39	− 6 19.9	2.487	1.650	14.7	20.8	25 E	18*	8*
2 5	22 28.88	− 5 35.5	2.500	1.619	12.6	20.7	21 E	14*	6*
2 15	22 54.77	− 4 41.2	2.506	1.589	10.5	20.6	17 E	10*	4*
2 25	23 21.09	− 3 38.9	2.505	1.558	8.4	20.4	13 E	6*	2*
3 7	23 47.88	− 2 30.4	2.496	1.528	6.4	20.3	10 E	3*	1*
3 17	0 15.22	− 1 17.6	2.481	1.499	4.8	20.2	7 E	—	—
3 27	0 43.17	− 0 2.5	2.460	1.471	3.8	20.0	6 E	—	—
4 6	1 11.82	+ 1 12.8	2.435	1.444	4.1	20.0	6 E	—	—
4 16	1 41.24	+ 2 26.1	2.407	1.419	5.4	20.0	8 E	—	—
4 26	2 11.49	+ 3 35.1	2.376	1.395	7.1	20.0	10 W	—	—
5 6	2 42.59	+ 4 37.5	2.345	1.375	8.8	20.0	12 W	—	1*
5 16	3 14.55	+ 5 30.9	2.315	1.357	10.5	20.0	14 W	—	4*
5 26	3 47.29	+ 6 13.1	2.287	1.342	12.0	20.1	16 W	—	6*
6 5	4 20.71	+ 6 42.1	2.262	1.330	13.3	20.1	17 W	—	8*
6 15	4 54.64	+ 6 56.3	2.242	1.322	14.3	20.1	19 W	—	10*
6 25	5 28.85	+ 6 54.7	2.228	1.318	15.2	20.1	20 W	—	11*
7 5	6 3.10	+ 6 37.1	2.219	1.317	15.8	20.1	21 W	—	13*
7 15	6 37.14	+ 6 3.9	2.216	1.321	16.2	20.1	21 W	—	14*
7 25	7 10.72	+ 5 16.3	2.218	1.328	16.4	20.1	22 W	—	15*
8 4	7 43.64	+ 4 16.1	2.224	1.339	16.5	20.2	22 W	—	16*
8 14	8 15.75	+ 3 5.5	2.233	1.353	16.6	20.2	22 W	—	16*
8 24	8 46.94	+ 1 46.9	2.244	1.370	16.7	20.2	23 W	2*	17*
9 3	9 17.18	+ 0 22.7	2.254	1.391	17.0	20.3	24 W	5*	17*
9 13	9 46.47	− 1 4.6	2.262	1.413	17.4	20.3	25 W	8*	18*
9 23	10 14.82	− 2 32.8	2.267	1.438	18.0	20.4	26 W	11*	19*
10 3	10 42.31	− 3 59.7	2.267	1.465	18.9	20.5	28 W	14*	19*
10 13	11 9.00	− 5 23.4	2.261	1.493	20.0	20.5	31 W	17*	21*
10 23	11 34.94	− 6 41.7	2.248	1.522	21.2	20.6	34 W	20*	22*
11 2	12 0.20	− 7 53.1	2.226	1.552	22.6	20.7	37 W	23*	24*
11 12	12 24.83	− 8 55.5	2.196	1.582	24.0	20.7	41 W	25*	26*
11 22	12 48.84	− 9 47.0	2.157	1.613	25.5	20.8	45 W	28*	29*
12 2	13 12.25	−10 25.9	2.109	1.643	27.0	20.8	49 W	30*	33*
12 12	13 34.99	−10 50.1	2.053	1.674	28.4	20.8	54 W	31*	37*
12 22	13 57.02	−10 57.4	1.988	1.704	29.7	20.8	59 W	33*	41*
1 1	14 18.22	−10 46.0	1.915	1.734	30.8	20.8	64 W	34*	47*
1 11	14 38.43	−10 13.4	1.836	1.763	31.6	20.8	70 W	35*	52*
1 21	14 57.46	− 9 17.4	1.752	1.791	32.2	20.7	76 W	36	58*

215489 2002 TG_{57}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 49.69	−19 58.1	2.492	1.766	18.2	21.2	34 E	16*	23*
1 6	21 16.26	−17 55.4	2.571	1.794	16.1	21.2	30 E	16*	19*
1 16	21 41.82	−15 43.1	2.648	1.824	14.1	21.2	27 E	15*	15*
1 26	22 6.39	−13 23.8	2.723	1.856	11.9	21.2	23 E	13*	12*
2 5	22 30.02	−11 0.0	2.794	1.890	9.8	21.3	19 E	10*	8*
2 15	22 52.81	− 8 33.6	2.861	1.924	7.7	21.3	15 E	7*	5*
2 25	23 14.84	− 6 6.5	2.922	1.960	5.5	21.2	11 E	4*	2*
3 7	23 36.16	− 3 40.3	2.978	1.996	3.4	21.2	7 E	—	—
3 17	23 56.88	− 1 16.4	3.026	2.033	1.3	21.1	3 E	—	—
3 27	0 17.05	+ 1 4.0	3.067	2.070	1.0	21.2	2 W	—	—
4 6	0 36.71	+ 3 19.9	3.099	2.107	3.0	21.4	6 W	—	—

509024 2005 PZ_1

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 49.78	−24 14.7	2.371	1.642	19.2	20.8	33 E	13*	25*
1 6	21 16.20	−21 11.7	2.381	1.604	17.7	20.7	30 E	13*	20*
1 16	21 42.50	−17 52.3	2.389	1.570	16.2	20.6	26 E	13*	16*
1 26	22 8.64	−14 17.9	2.395	1.540	14.6	20.6	23 E	12*	12*
2 5	22 34.68	−10 30.8	2.399	1.514	13.1	20.5	20 E	11*	9*
2 15	23 0.68	− 6 33.1	2.403	1.492	11.5	20.4	18 E	10*	6*
2 25	23 26.75	− 2 27.9	2.408	1.475	10.1	20.3	15 E	8*	3*
3 7	23 53.00	+ 1 41.6	2.414	1.464	8.7	20.2	13 E	7*	1*
3 17	0 19.59	+ 5 52.1	2.422	1.458	7.5	20.2	11 E	5*	—
3 27	0 46.66	+ 9 59.4	2.433	1.458	6.5	20.1	10 E	3*	—
4 6	1 14.34	+13 59.8	2.446	1.463	5.8	20.1	8 E	2*	—
4 16	1 42.78	+17 49.0	2.462	1.474	5.4	20.1	8 E	1*	—
4 26	2 12.05	+21 23.1	2.481	1.491	5.4	20.2	8 W	—	—
5 6	2 42.19	+24 38.0	2.502	1.512	5.6	20.2	8 W	2*	—
5 16	3 13.20	+27 30.4	2.527	1.538	6.2	20.3	9 W	3*	—
5 26	3 44.94	+29 57.4	2.552	1.568	6.8	20.4	11 W	5*	—
6 5	4 17.20	+31 56.9	2.579	1.602	7.7	20.5	12 W	6*	—
6 15	4 49.72	+33 27.9	2.606	1.639	8.6	20.6	14 W	8*	—

509024 2005 PZ_1 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 25	5 22.11	+34 30.4	2.632	1.679	9.6	20.8	16 W	10*	—
7 5	5 54.03	+35 5.5	2.657	1.721	10.7	20.9	18 W	12*	—
7 15	6 25.11	+35 15.4	2.677	1.765	11.8	21.0	21 W	15*	1*
7 25	6 55.04	+35 2.8	2.694	1.810	13.0	21.1	24 W	17*	2*
8 4	7 23.60	+34 31.0	2.705	1.857	14.3	21.2	27 W	21*	4*
8 14	7 50.63	+33 43.5	2.709	1.905	15.6	21.3	30 W	24*	5*
8 24	8 16.03	+32 43.9	2.706	1.953	16.9	21.4	34 W	28*	6*

8251 Isogai

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 49.90	−16 48.5	2.692	1.967	16.6	19.8	35 E	19*	22*
1 6	21 12.24	−15 23.9	2.722	1.937	14.8	19.7	30 E	18*	17*
1 16	21 34.92	−13 47.2	2.745	1.908	13.0	19.7	26 E	15*	13*
1 26	21 57.89	−11 59.2	2.761	1.879	11.1	19.6	21 E	13*	9*
2 5	22 21.08	−10 0.9	2.769	1.852	9.1	19.5	17 E	9*	6*
2 15	22 44.49	− 7 53.4	2.772	1.825	7.2	19.3	13 E	6*	3*
2 25	23 8.12	− 5 38.1	2.769	1.800	5.2	19.2	10 E	3*	—
3 7	23 31.97	− 3 16.7	2.760	1.776	3.3	19.1	6 E	—	—
3 17	23 56.10	− 0 50.9	2.748	1.755	1.4	18.9	2 E	—	—
3 27	0 20.53	+ 1 37.2	2.732	1.735	0.6	18.8	1 W	—	—
4 6	0 45.32	+ 4 5.7	2.713	1.717	2.4	18.9	4 W	—	—
4 16	1 10.52	+ 6 32.4	2.692	1.701	4.3	19.0	7 W	—	1*
4 26	1 36.16	+ 8 54.8	2.668	1.687	6.1	19.0	10 W	—	4*
5 6	2 2.28	+11 10.7	2.643	1.677	7.8	19.1	13 W	—	7*
5 16	2 28.89	+13 17.6	2.617	1.668	9.6	19.1	16 W	—	10*
5 26	2 55.99	+15 13.2	2.590	1.663	11.3	19.2	19 W	1*	12*
6 5	3 23.52	+16 55.4	2.562	1.660	12.9	19.2	21 W	3*	15*
6 15	3 51.41	+18 22.3	2.533	1.660	14.5	19.2	24 W	6*	17*
6 25	4 19.54	+19 32.1	2.503	1.663	16.1	19.3	27 W	9*	19*
7 5	4 47.77	+20 24.0	2.472	1.669	17.7	19.3	30 W	12*	20*
7 15	5 15.92	+20 57.1	2.439	1.678	19.2	19.3	33 W	16*	22*
7 25	5 43.79	+21 11.5	2.404	1.689	20.6	19.4	36 W	20*	23*
8 4	6 11.19	+21 7.7	2.366	1.702	22.0	19.4	39 W	24*	24*
8 14	6 37.93	+20 46.8	2.326	1.718	23.4	19.4	42 W	28*	26*
8 24	7 3.82	+20 10.2	2.282	1.736	24.7	19.4	46 W	33*	27*
9 3	7 28.73	+19 19.9	2.234	1.757	25.9	19.4	50 W	37*	28*
9 13	7 52.51	+18 18.1	2.181	1.779	27.1	19.5	54 W	41*	30*
9 23	8 15.05	+17 7.2	2.124	1.802	28.1	19.5	58 W	45*	32*
10 3	8 36.25	+15 49.6	2.062	1.828	29.0	19.5	62 W	49*	34*
10 13	8 56.00	+14 28.2	1.995	1.854	29.8	19.4	67 W	52*	36*
10 23	9 14.18	+13 5.6	1.923	1.882	30.3	19.4	73 W	54*	39*
11 2	9 30.67	+11 44.5	1.846	1.911	30.6	19.4	78 W	56*	42*
11 12	9 45.27	+10 28.0	1.766	1.940	30.5	19.3	85 W	55	46*
11 22	9 57.77	+ 9 19.2	1.682	1.970	30.1	19.2	91 W	54	50*
12 2	10 7.92	+ 8 21.2	1.598	2.001	29.2	19.1	99 W	53	54*
12 12	10 15.36	+ 7 37.5	1.514	2.032	27.6	19.0	107 W	53	56*
12 22	10 19.78	+ 7 11.5	1.434	2.063	25.4	18.8	116 W	52	57
1 1	10 20.87	+ 7 6.1	1.362	2.094	22.4	18.7	126 W	52	57
1 11	10 18.43	+ 7 23.6	1.301	2.125	18.5	18.5	137 W	52	57
1 21	10 12.61	+ 8 3.4	1.256	2.156	13.9	18.3	148 W	53	56

5751 Zao

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 50.26	−21 53.1	3.747	2.981	10.6	20.7	34 E	15*	24*
1 6	21 4.50	−21 9.1	3.828	2.986	8.6	20.7	27 E	12*	18*
1 16	21 18.91	−20 20.7	3.892	2.991	6.6	20.6	21 E	8*	12*
1 26	21 33.39	−19 28.3	3.939	2.994	4.6	20.6	14 E	3*	7*
2 5	21 47.88	−18 32.7	3.968	2.996	2.8	20.5	8 E	—	2*
2 15	22 2.32	−17 34.5	3.978	2.996	1.7	20.4	5 E	—	—
2 25	22 16.65	−16 34.6	3.971	2.995	2.7	20.5	8 W	—	1*
3 7	22 30.83	−15 33.8	3.946	2.992	4.6	20.6	14 W	—	7*
3 17	22 44.83	−14 32.9	3.903	2.988	6.6	20.6	20 W	—	13*
3 27	22 58.59	−13 33.0	3.844	2.983	8.5	20.7	26 W	—	20*
4 6	23 12.08	−12 34.8	3.769	2.976	10.5	20.7	33 W	—	26*
4 16	23 25.28	−11 39.5	3.679	2.968	12.3	20.7	39 W	1*	33*
4 26	23 38.11	−10 48.0	3.575	2.959	14.0	20.7	46 W	3*	39*
5 6	23 50.53	−10 1.6	3.459	2.948	15.7	20.7	52 W	6*	46*
5 16	0 2.49	− 9 21.5	3.331	2.936	17.1	20.7	59 W	8*	53*
5 26	0 13.88	− 8 49.0	3.194	2.922	18.4	20.6	65 W	12*	59*
6 5	0 24.61	− 8 25.5	3.050	2.907	19.4	20.5	72 W	15*	65*
6 15	0 34.55	− 8 12.6	2.899	2.890	20.2	20.4	79 W	19*	70*
6 25	0 43.54	− 8 12.0	2.745	2.872	20.7	20.3	87 W	24*	72*
7 5	0 51.40	− 8 25.5	2.589	2.853	20.8	20.2	94 W	28*	72
7 15	0 57.87	− 8 54.8	2.435	2.832	20.5	20.0	102 W	32*	73
7 25	1 2.68	− 9 41.5	2.286	2.809	19.8	19.8	111 W	34*	74
8 4	1 5.54	−10 46.7	2.144	2.786	18.5	19.6	119 W	34*	75
8 14	1 6.11	−12 10.5	2.013	2.760	16.7	19.4	128 W	33	76
8 24	1 4.14	−13 51.0	1.899	2.734	14.4	19.2	138 W	31	78
8 29	1 2.15	−14 46.3	1.849	2.720	13.1	19.1	142 W	30	79
9 3	0 59.48	−15 43.9	1.804	2.705	11.8	19.0	147 W	29	80
9 8	0 56.15	−16 42.8	1.766	2.691	10.5	18.9	151 W	28	81
9 13	0 52.21	−17 41.7	1.733	2.676	9.4	18.8	154 W	27	82
9 18	0 47.72	−18 39.2	1.707	2.660	8.6	18.7	157 W	26	83

5751 Zao *(continuation)*

20/22		α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		h m	° ′			°	m	°	°	°
9	23	0 42.79	−19 33.9	1.688	2.645	8.2	18.6	158 W	25	84
9	28	0 37.51	−20 24.4	1.676	2.629	8.5	18.6	157 W	25	84
10	3	0 32.04	−21 9.5	1.671	2.612	9.3	18.6	155 E	24	85
10	8	0 26.51	−21 48.0	1.672	2.595	10.5	18.7	152 E	23	86
10	13	0 21.09	−22 19.0	1.680	2.578	12.0	18.7	148 E	23	86
10	18	0 15.94	−22 41.9	1.694	2.560	13.6	18.8	143 E	22	87
10	23	0 11.19	−22 56.6	1.713	2.542	15.1	18.8	138 E	22	87
10	28	0 6.95	−23 3.2	1.738	2.524	16.7	18.9	133 E	22	87
11	2	0 3.33	−23 2.0	1.767	2.505	18.1	19.0	128 E	22	87
11	12	23 58.19	−22 37.5	1.836	2.467	20.6	19.1	119 E	22	87
11	22	23 56.04	−21 48.0	1.915	2.427	22.6	19.2	109 E	23	86
12	2	23 56.86	−20 38.3	2.000	2.386	24.0	19.3	100 E	24	85
12	12	0 0.43	−19 12.5	2.088	2.343	24.8	19.4	92 E	26	80*
12	22	0 6.48	−17 33.9	2.174	2.298	25.2	19.5	84 E	27	71*
1	1	0 14.68	−15 45.2	2.256	2.253	25.2	19.5	77 E	29	63*
1	11	0 24.78	−13 48.2	2.332	2.206	24.8	19.5	70 E	31*	55*
1	21	0 36.54	−11 44.4	2.400	2.157	24.2	19.5	64 E	32*	49*

40468 1999 RF_{46}

12	27	20 50.42	−15 41.9	2.655	1.939	17.1	19.4	35 E	20*	22*
1	6	21 11.84	−13 8.2	2.751	1.973	14.8	19.4	31 E	19*	16*
1	16	21 32.50	−10 32.1	2.840	2.008	12.6	19.4	27 E	18*	11*
1	26	21 52.47	− 7 54.1	2.922	2.044	10.4	19.4	22 E	15*	6*
2	5	22 11.82	− 5 14.9	2.996	2.079	8.3	19.4	18 E	12*	2*
2	15	22 30.62	− 2 35.2	3.062	2.115	6.3	19.4	14 E	8*	—
2	25	22 48.92	+ 0 4.7	3.118	2.151	4.7	19.4	10 E	3*	—
3	7	23 6.77	+ 2 44.1	3.164	2.187	3.7	19.4	8 W	—	—
3	17	23 24.21	+ 5 22.6	3.200	2.222	3.9	19.5	9 W	3*	—
3	27	23 41.29	+ 7 59.8	3.225	2.257	5.2	19.6	12 W	5*	1*
4	6	23 58.02	+10 35.2	3.239	2.292	6.8	19.8	16 W	8*	6*
4	16	0 14.44	+13 8.6	3.242	2.326	8.6	19.9	20 W	10*	10*
4	26	0 30.54	+15 39.5	3.233	2.360	10.4	20.0	25 W	13*	15*
5	6	0 46.33	+18 7.8	3.214	2.393	12.1	20.1	30 W	16*	19*
5	16	1 1.79	+20 33.2	3.183	2.426	13.8	20.1	35 W	19*	23*
5	26	1 16.88	+22 55.6	3.143	2.458	15.4	20.2	40 W	23*	26*
6	5	1 31.56	+25 14.9	3.092	2.489	16.9	20.2	46 W	28*	28*
6	15	1 45.76	+27 31.3	3.031	2.520	18.3	20.3	51 W	33*	30*
6	25	1 59.36	+29 44.6	2.961	2.550	19.5	20.3	57 W	39*	31*
7	5	2 12.24	+31 55.0	2.883	2.579	20.5	20.3	63 W	46*	30*
7	15	2 24.21	+34 2.8	2.798	2.607	21.3	20.3	69 W	54*	29*
7	25	2 35.03	+36 7.9	2.708	2.634	21.9	20.2	75 W	62*	28*
8	4	2 44.42	+38 10.5	2.612	2.661	22.2	20.2	82 W	70*	26
8	14	2 52.03	+40 10.3	2.515	2.687	22.1	20.1	89 W	79*	24
8	19	2 55.04	+41 8.9	2.466	2.699	22.0	20.1	92 W	83*	23
8	24	2 57.43	+42 6.5	2.417	2.712	21.8	20.0	96 W	87*	22
8	29	2 59.16	+43 2.8	2.368	2.724	21.5	20.0	99 W	88	21
9	3	3 0.16	+43 57.4	2.321	2.735	21.0	19.9	103 W	89	20
9	8	3 0.36	+44 50.1	2.275	2.747	20.5	19.9	107 W	90	19
9	13	2 59.70	+45 40.2	2.230	2.758	19.9	19.8	111 W	89	18
9	18	2 58.15	+46 27.1	2.188	2.770	19.2	19.8	115 W	89	18
9	23	2 55.67	+47 10.2	2.149	2.781	18.4	19.7	119 W	88	17
9	28	2 52.25	+47 48.4	2.113	2.791	17.5	19.7	123 W	87	16
10	3	2 47.91	+48 21.1	2.080	2.802	16.5	19.6	127 W	87	16
10	8	2 42.70	+48 47.0	2.051	2.812	15.5	19.6	131 W	86	15
10	13	2 36.72	+49 5.4	2.027	2.822	14.5	19.5	135 W	86	15
10	18	2 30.11	+49 15.5	2.009	2.832	13.5	19.5	138 W	86	15
10	23	2 23.06	+49 16.6	1.995	2.841	12.6	19.4	141 W	86	15
10	28	2 15.77	+49 8.7	1.987	2.851	11.9	19.4	144 W	86	15
11	2	2 8.47	+48 51.6	1.986	2.860	11.3	19.4	146 E	86	15
11	7	2 1.38	+48 25.9	1.990	2.868	11.0	19.4	146 E	87	16
11	12	1 54.72	+47 52.4	2.001	2.877	11.0	19.4	146 E	87	16
11	17	1 48.68	+47 12.3	2.018	2.885	11.3	19.4	145 E	88	17
11	22	1 43.39	+46 27.0	2.042	2.894	11.8	19.5	143 E	89	18
11	27	1 38.94	+45 38.0	2.071	2.901	12.5	19.5	140 E	89	18
12	2	1 35.40	+44 46.7	2.107	2.909	13.3	19.6	137 E	90	19
12	7	1 32.78	+43 54.4	2.147	2.916	14.1	19.7	134 E	89	20
12	12	1 31.08	+43 2.5	2.193	2.924	15.0	19.8	130 E	88	21
12	17	1 30.28	+42 12.2	2.243	2.930	15.8	19.8	126 E	87	22
12	22	1 30.33	+41 24.1	2.297	2.937	16.5	19.9	122 E	86	23
12	27	1 31.16	+40 39.1	2.355	2.944	17.2	20.0	118 E	86	23*
1	1	1 32.74	+39 57.4	2.416	2.950	17.8	20.1	113 E	85	24*
1	6	1 35.00	+39 19.5	2.480	2.956	18.3	20.2	109 E	84	24*
1	11	1 37.89	+38 45.6	2.546	2.961	18.7	20.2	105 E	84	23*
1	16	1 41.35	+38 15.8	2.614	2.967	19.0	20.3	101 E	83	23*
1	21	1 45.34	+37 49.8	2.683	2.972	19.2	20.4	97 E	83	22*

409296 2004 SV_{51}

12	27	20 50.58	−21 44.6	2.348	1.627	19.7	21.4	34 E	15*	24*
1	6	21 18.85	−19 37.2	2.377	1.611	18.1	21.4	31 E	15*	20*
1	16	21 46.89	−17 13.0	2.403	1.597	16.6	21.3	28 E	14*	17*
1	26	22 14.64	−14 34.3	2.428	1.587	15.0	21.3	25 E	13*	14*

409296 2004 SV_{51} *(continuation)*

20/21		α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		h m	° ′			°	m	°	°	°
2	5	22 42.04	−11 43.8	2.453	1.580	13.4	21.2	22 E	11*	11*
2	15	23 9.11	− 8 44.3	2.478	1.576	11.7	21.2	19 E	10*	9*
2	25	23 35.89	− 5 38.8	2.502	1.576	10.1	21.1	16 E	8*	7*
3	7	0 2.41	− 2 30.5	2.527	1.579	8.4	21.1	13 E	5*	5*
3	17	0 28.75	+ 0 37.8	2.552	1.586	6.7	21.0	11 E	3*	3*
3	27	0 54.98	+ 3 43.0	2.577	1.596	5.0	21.0	8 E	—	1*
4	6	1 21.15	+ 6 42.3	2.602	1.609	3.4	20.9	5 E	—	—
4	16	1 47.34	+ 9 33.4	2.626	1.625	1.7	20.9	3 E	—	—
4	26	2 13.57	+12 13.8	2.650	1.644	0.7	20.8	1 E	—	—
5	6	2 39.86	+14 41.7	2.671	1.665	2.0	21.0	3 W	—	—
5	16	3 6.21	+16 55.5	2.691	1.689	3.7	21.1	6 W	—	—
5	26	3 32.59	+18 53.7	2.707	1.715	5.5	21.3	9 W	—	3*
6	5	3 58.93	+20 35.7	2.720	1.743	7.2	21.4	12 W	—	6*

390733 2003 *OS*

12	27	20 50.66	−20 24.9	2.318	1.603	20.2	20.9	34 E	16*	24*
1	6	21 19.26	−20 29.6	2.371	1.605	18.2	20.8	31 E	14*	21*
1	16	21 47.82	−20 14.0	2.420	1.610	16.3	20.8	27 E	12*	18*
1	26	22 16.24	−19 40.3	2.463	1.617	14.5	20.8	24 E	9*	16*
2	5	22 44.42	−18 50.9	2.501	1.626	12.9	20.8	22 E	6*	15*
2	15	23 12.35	−17 48.1	2.535	1.638	11.7	20.8	20 E	3*	13*
2	25	23 39.97	−16 34.6	2.563	1.651	10.7	20.8	18 E	—	12*
3	7	0 7.29	−15 12.9	2.588	1.666	10.2	20.8	17 E	—	11*
3	17	0 34.32	−13 45.6	2.609	1.683	10.0	20.9	17 E	—	10*
3	27	1 1.05	−12 15.1	2.626	1.701	10.2	20.9	18 E	—	9*
4	6	1 27.49	−10 44.0	2.641	1.721	10.6	21.0	18 E	—	8*
4	16	1 53.67	− 9 14.4	2.653	1.742	11.2	21.0	20 E	—	6*
4	26	2 19.57	− 7 48.8	2.663	1.764	12.0	21.1	21 E	—	5*
5	6	2 45.17	− 6 28.9	2.671	1.786	12.7	21.1	23 W	—	5*
5	16	3 10.45	− 5 16.6	2.677	1.810	13.6	21.2	25 W	—	9*
5	26	3 35.37	− 4 13.5	2.681	1.834	14.4	21.3	27 W	—	13*
6	5	3 59.88	− 3 20.5	2.682	1.859	15.2	21.3	29 W	—	17*
6	15	4 23.93	− 2 38.7	2.681	1.883	16.1	21.4	31 W	—	21*
6	25	4 47.43	− 2 8.7	2.676	1.909	17.0	21.4	33 W	—	25*
7	5	5 10.34	− 1 50.4	2.667	1.934	17.9	21.5	36 W	—	28*

15745 Yuliya

12	27	20 51.49	−21 4.7	2.126	1.424	22.9	20.8	34 E	16*	24*
1	1	21 8.13	−20 24.6	2.159	1.439	21.9	20.8	33 E	16*	23*
1	6	21 24.42	−19 39.2	2.193	1.455	21.0	20.8	32 E	15*	22*
1	11	21 40.36	−18 49.0	2.227	1.471	20.0	20.9	31 E	15*	20*
1	16	21 55.94	−17 54.6	2.262	1.487	19.0	20.9	30 E	15*	19*
1	21	22 11.17	−16 56.6	2.296	1.504	18.1	20.9	28 E	14*	18*
1	26	22 26.05	−15 55.6	2.330	1.521	17.1	21.0	27 E	13*	17*
1	31	22 40.60	−14 51.9	2.365	1.538	16.1	21.0	26 E	13*	16*
2	5	22 54.84	−13 46.2	2.398	1.555	15.2	21.0	24 E	12*	15*
2	10	23 8.77	−12 38.9	2.432	1.572	14.2	21.0	23 E	11*	14*
2	15	23 22.43	−11 30.3	2.465	1.589	13.3	21.0	22 E	10*	13*
2	20	23 35.82	−10 20.9	2.497	1.606	12.3	21.1	20 E	8*	12*
2	25	23 48.95	− 9 11.1	2.528	1.624	11.4	21.1	19 E	7*	11*
3	2	0 1.86	− 8 1.2	2.559	1.641	10.5	21.1	18 E	6*	10*
3	7	0 14.55	− 6 51.5	2.588	1.658	9.6	21.1	16 E	4*	9*
3	12	0 27.05	− 5 42.3	2.616	1.675	8.7	21.1	15 E	3*	8*
3	17	0 39.37	− 4 33.8	2.644	1.692	7.9	21.1	14 E	1*	7*
3	22	0 51.52	− 3 26.3	2.669	1.709	7.2	21.1	12 E	—	6*
3	27	1 3.52	− 2 20.0	2.694	1.726	6.5	21.1	11 E	—	5*
4	1	1 15.37	− 1 15.2	2.717	1.743	5.9	21.1	10 E	—	4*
4	6	1 27.11	− 0 11.9	2.738	1.759	5.4	21.2	10 E	—	3*
4	11	1 38.72	+ 0 49.6	2.758	1.775	5.1	21.2	9 E	—	2*
4	16	1 50.24	+ 1 49.2	2.776	1.791	5.0	21.2	9 E	—	1*
4	21	2 1.65	+ 2 46.8	2.792	1.807	5.1	21.2	9 E	—	—
4	26	2 12.97	+ 3 42.1	2.806	1.822	5.3	21.3	10 W	—	—
5	1	2 24.20	+ 4 35.1	2.819	1.838	5.8	21.3	11 W	—	—
5	6	2 35.35	+ 5 25.7	2.829	1.853	6.4	21.4	12 W	—	2*
5	11	2 46.43	+ 6 13.9	2.837	1.867	7.0	21.4	13 W	—	5*
5	16	2 57.44	+ 6 59.4	2.843	1.882	7.7	21.5	15 W	—	7*

457261 2008 RY_{25}

12	27	20 51.58	−31 42.1	2.431	1.702	18.7	20.7	34 E	6*	27*
1	1	21 6.38	−30 6.0	2.475	1.723	17.7	20.8	32 E	7*	25*
1	6	21 20.54	−28 27.8	2.519	1.745	16.6	20.8	30 E	7*	24*
1	11	21 34.10	−26 48.1	2.565	1.767	15.5	20.8	29 E	7*	22*
1	16	21 47.11	−25 7.5	2.610	1.789	14.4	20.9	27 E	7*	20*
1	21	21 59.61	−23 26.4	2.654	1.812	13.3	20.9	25 E	7*	18*
1	26	22 11.64	−21 45.4	2.699	1.836	12.2	20.9	23 E	7*	16*
1	31	22 23.23	−20 4.7	2.743	1.859	11.1	20.9	21 E	6*	14*
2	5	22 34.43	−18 24.6	2.786	1.883	10.0	20.9	19 E	5*	12*
2	10	22 45.27	−16 45.3	2.827	1.908	8.8	21.0	17 E	4*	10*
2	15	22 55.78	−15 7.0	2.868	1.932	7.7	21.0	15 E	3*	8*
2	20	23 5.99	−13 30.0	2.907	1.957	6.6	21.0	13 E	1*	7*
2	25	23 15.91	−11 54.2	2.944	1.982	5.5	21.0	11 E	—	5*
3	2	23 25.57	−10 19.9	2.980	2.007	4.4	21.0	9 E	—	3*

20/21		α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			457261 2008 RY_{25}				*(continuation)*			
		h m	° ′			°	m	°	°	°
3	7	23 35.00	− 8 47.1	3.013	2.032	3.5	21.0	7 E	—	1*
3	12	23 44.21	− 7 15.8	3.044	2.057	2.7	21.0	6 E	—	—
3	17	23 53.21	− 5 46.2	3.073	2.083	2.2	21.0	5 E	—	—
3	22	0 2.02	− 4 18.1	3.099	2.108	2.3	21.0	5 W	—	—
3	27	0 10.65	− 2 51.7	3.123	2.133	2.9	21.1	6 W	—	—
4	1	0 19.11	− 1 27.0	3.144	2.159	3.7	21.2	8 W	—	2*
4	6	0 27.41	− 0 4.0	3.162	2.184	4.7	21.3	10 W	—	4*
4	11	0 35.55	+ 1 17.4	3.177	2.209	5.7	21.4	13 W	—	6*
4	16	0 43.55	+ 2 37.2	3.189	2.235	6.7	21.5	15 W	—	9*
			463257 2012 GG_1							
12	27	20 51.72	−15 8.8	1.696	1.067	32.6	21.2	36 E	21*	22*
1	1	21 10.87	−13 14.9	1.691	1.062	32.8	21.1	36 E	22*	21*
1	6	21 29.93	−11 14.5	1.687	1.059	32.9	21.1	36 E	23*	20*
1	11	21 48.89	− 9 8.4	1.686	1.058	32.9	21.1	36 E	24*	18*
1	16	22 7.76	− 6 57.8	1.686	1.059	33.0	21.1	36 E	25*	17*
1	21	22 26.55	− 4 43.7	1.688	1.063	33.0	21.2	36 E	26*	16*
1	26	22 45.25	− 2 27.3	1.692	1.069	32.9	21.2	36 E	27*	16*
1	31	23 3.89	− 0 9.8	1.698	1.076	32.8	21.2	36 E	28*	15*
2	5	23 22.48	+ 2 7.6	1.707	1.086	32.7	21.2	37 E	29*	14*
2	10	23 41.04	+ 4 23.7	1.718	1.098	32.5	21.2	37 E	29*	14*
2	15	23 59.59	+ 6 37.4	1.732	1.111	32.1	21.3	37 E	29*	13*
2	20	0 18.13	+ 8 47.7	1.748	1.126	31.8	21.3	37 E	30*	13*
2	25	0 36.67	+10 53.5	1.767	1.142	31.3	21.4	37 E	30*	12*
3	2	0 55.22	+12 53.9	1.789	1.160	30.8	21.4	37 E	30*	12*
3	7	1 13.77	+14 48.1	1.813	1.179	30.3	21.5	37 E	30*	12*
			238496 2004 RZ_{345}							
12	27	20 52.14	−17 12.0	2.396	1.692	19.6	21.3	35 E	19*	23*
1	6	21 19.79	−15 40.6	2.463	1.708	17.7	21.3	32 E	18*	19*
1	16	21 46.76	−13 56.2	2.528	1.727	15.7	21.4	28 E	17*	16*
1	26	22 13.00	−12 1.5	2.591	1.748	13.7	21.4	25 E	15*	12*
2	5	22 38.53	− 9 59.0	2.652	1.771	11.7	21.4	21 E	12*	10*
2	15	23 3.36	− 7 51.2	2.710	1.795	9.7	21.4	18 E	9*	7*
2	25	23 27.56	− 5 40.6	2.764	1.821	7.6	21.4	14 E	6*	5*
3	7	23 51.16	− 3 29.2	2.814	1.847	5.6	21.3	11 E	3*	2*
3	17	0 14.25	− 1 19.0	2.859	1.875	3.7	21.3	7 E	—	—
3	27	0 36.86	+ 0 48.3	2.898	1.904	2.0	21.2	4 E	—	—
4	6	0 59.05	+ 2 51.1	2.931	1.933	1.8	21.3	3 W	—	—
4	16	1 20.88	+ 4 48.1	2.957	1.963	3.3	21.4	6 W	—	—
			350988 2003 GW							
12	27	20 52.21	− 5 11.8	1.743	1.176	32.6	19.7	40 E	30*	18*
1	6	21 31.73	− 6 17.0	1.852	1.241	29.4	19.9	38 E	28*	18*
1	16	22 7.75	− 6 57.2	1.971	1.308	26.2	20.0	36 E	25*	17*
1	26	22 40.68	− 7 16.5	2.094	1.377	22.9	20.2	33 E	23*	17*
2	5	23 10.99	− 7 19.5	2.216	1.446	19.8	20.3	30 E	19*	16*
2	15	23 39.15	− 7 10.4	2.333	1.515	16.9	20.4	27 E	16*	15*
2	25	0 5.55	− 6 53.1	2.444	1.582	14.3	20.5	23 E	12*	14*
3	7	0 30.52	− 6 30.8	2.545	1.649	11.9	20.6	20 E	7*	13*
3	17	0 54.33	− 6 6.2	2.636	1.714	10.1	20.7	18 E	3*	11*
3	27	1 17.20	− 5 41.9	2.716	1.777	8.8	20.8	16 E	—	10*
4	6	1 39.30	− 5 19.9	2.784	1.838	8.3	20.9	15 E	—	8*
4	16	2 0.76	− 5 2.1	2.840	1.897	8.5	21.0	16 E	—	6*
4	26	2 21.67	− 4 50.1	2.883	1.954	9.3	21.2	18 E	—	4*
5	6	2 42.11	− 4 45.4	2.915	2.009	10.5	21.3	21 W	—	5*
5	16	3 2.11	− 4 49.2	2.934	2.062	11.9	21.4	25 W	—	11*
			333478 2004 SD_{20}							
12	27	20 53.08	−31 10.0	1.952	1.263	25.8	21.3	34 E	7*	27*
1	6	21 23.72	−28 18.3	1.973	1.240	24.2	21.3	31 E	8*	24*
1	16	21 53.25	−25 5.2	1.981	1.210	22.7	21.2	28 E	8*	21*
1	26	22 21.97	−21 31.7	1.978	1.170	21.3	21.1	26 E	8*	18*
2	5	22 50.18	−17 38.1	1.961	1.121	20.1	20.9	23 E	8*	15*
2	15	23 18.28	−13 23.6	1.930	1.064	19.0	20.7	21 E	8*	13*
2	25	23 46.70	− 8 47.0	1.886	0.997	18.3	20.5	18 E	7*	10*
3	7	0 15.98	− 3 46.5	1.827	0.920	17.9	20.3	17 E	7*	8*
3	17	0 46.86	+ 1 40.4	1.751	0.835	18.5	20.0	15 E	7*	6*
3	27	1 20.30	+ 7 35.5	1.658	0.743	20.6	19.7	15 E	8*	5*
4	1	1 38.40	+10 43.6	1.604	0.695	22.6	19.5	16 E	8*	4*
4	6	1 57.70	+13 57.8	1.544	0.646	25.6	19.4	16 E	9*	3*
4	11	2 18.46	+17 16.5	1.476	0.599	29.9	19.2	17 E	11*	3*
4	16	2 40.94	+20 36.3	1.401	0.555	35.7	19.1	19 E	12*	3*
4	21	3 5.37	+23 51.7	1.317	0.517	43.3	19.0	21 E	14*	3*
4	26	3 31.83	+26 53.6	1.223	0.488	52.8	19.0	23 E	16*	4*
4	28	3 42.95	+27 59.9	1.183	0.479	57.1	19.0	24 E	17*	4*
4	30	3 54.35	+29 1.2	1.142	0.473	61.6	19.1	24 E	18*	5*
5	2	4 6.00	+29 56.5	1.100	0.470	66.3	19.1	25 E	19*	5*
5	4	4 17.84	+30 45.0	1.057	0.468	71.1	19.2	26 E	20*	5*
5	6	4 29.83	+31 25.6	1.014	0.469	76.0	19.2	27 E	20*	6*

20/22		α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			333478 2004 SD_{20}				*(continuation)*			
		h m	° ′			°	m	°	°	°
5	8	4 41.92	+31 57.7	0.970	0.473	80.8	19.3	28 E	21*	7*
5	10	4 54.06	+32 20.5	0.927	0.479	85.6	19.4	28 E	21*	7*
5	12	5 6.19	+32 33.4	0.884	0.487	90.1	19.6	29 E	22*	8*
5	14	5 18.29	+32 35.8	0.842	0.498	94.5	19.7	29 E	22*	9*
5	16	5 30.30	+32 27.4	0.800	0.510	98.6	19.8	30 E	22*	10*
5	18	5 42.21	+32 7.7	0.760	0.523	102.4	19.9	30 E	22*	11*
5	20	5 54.00	+31 36.5	0.722	0.539	105.9	20.1	31 E	22*	12*
5	22	6 5.65	+30 53.3	0.685	0.555	109.1	20.2	31 E	22*	13*
5	24	6 17.17	+29 58.0	0.650	0.572	111.9	20.3	32 E	21*	14*
5	26	6 28.56	+28 50.1	0.616	0.589	114.3	20.4	32 E	21*	16*
5	28	6 39.81	+27 29.3	0.584	0.608	116.4	20.5	32 E	20*	17*
5	30	6 50.95	+25 55.4	0.555	0.627	118.1	20.6	33 E	19*	19*
6	1	7 2.00	+24 7.9	0.527	0.646	119.4	20.7	34 E	18*	21*
6	3	7 12.95	+22 6.8	0.501	0.665	120.2	20.7	34 E	17*	23*
6	5	7 23.84	+19 51.8	0.478	0.684	120.7	20.7	35 E	16*	25*
6	10	7 50.88	+13 15.2	0.428	0.732	119.8	20.5	39 E	12*	31*
6	15	8 17.85	+ 5 22.4	0.392	0.780	116.2	20.2	43 E	7*	37*
6	20	8 44.97	− 3 23.0	0.370	0.825	110.5	19.8	50 E	2*	44*
6	25	9 12.39	−12 24.1	0.362	0.869	103.5	19.5	56 E	—	49*
6	27	9 23.47	−15 55.6	0.362	0.886	100.5	19.4	59 E	—	51*
6	29	9 34.63	−19 20.8	0.364	0.903	97.5	19.3	62 E	—	53*
7	1	9 45.86	−22 37.8	0.367	0.920	94.5	19.2	64 E	—	55*
7	3	9 57.18	−25 45.0	0.372	0.936	91.6	19.2	67 E	—	56*
7	5	10 8.58	−28 41.4	0.379	0.951	88.9	19.1	69 E	—	57*
7	10	10 37.40	−35 11.9	0.400	0.989	82.5	19.1	75 E	—	58*
7	15	11 6.62	−40 30.8	0.427	1.024	77.0	19.1	79 E	—	59*
7	20	11 36.06	−44 44.2	0.457	1.057	72.3	19.2	82 E	—	58*
7	25	12 5.52	−48 1.2	0.491	1.087	68.5	19.2	85 E	—	58*
7	27	12 17.27	−49 6.3	0.505	1.099	67.1	19.3	86 E	—	58*
7	29	12 28.98	−50 4.5	0.519	1.110	65.9	19.3	86 E	—	57*
7	31	12 40.63	−50 56.2	0.534	1.121	64.7	19.4	87 E	—	57*
8	2	12 52.22	−51 41.9	0.549	1.131	63.7	19.4	87 E	—	57*
8	4	13 3.74	−52 22.2	0.563	1.141	62.7	19.5	88 E	—	57*
8	9	13 32.12	−53 41.7	0.601	1.165	60.5	19.6	88 E	—	57*
8	14	13 59.80	−54 35.3	0.639	1.186	58.6	19.7	89 E	—	57*
8	19	14 26.65	−55 7.7	0.678	1.206	57.1	19.8	89 E	—	57*
8	24	14 52.58	−55 22.3	0.716	1.223	55.7	19.9	88 E	—	57*
8	29	15 17.53	−55 22.0	0.755	1.238	54.6	20.0	88 E	—	57*
9	3	15 41.53	−55 9.1	0.793	1.250	53.7	20.1	87 E	—	58*
9	8	16 4.59	−54 45.6	0.830	1.261	52.9	20.2	86 E	—	58*
9	13	16 26.73	−54 12.9	0.868	1.269	52.2	20.3	85 E	—	58*
9	18	16 48.00	−53 32.3	0.904	1.276	51.5	20.4	84 E	—	59*
9	23	17 8.42	−52 44.5	0.939	1.280	51.0	20.5	82 E	—	60*
9	28	17 28.05	−51 50.3	0.974	1.282	50.5	20.6	81 E	—	60*
10	3	17 46.95	−50 50.3	1.007	1.282	50.1	20.6	79 E	—	61*
10	8	18 5.18	−49 44.9	1.040	1.280	49.7	20.7	78 E	—	61*
10	13	18 22.79	−48 34.6	1.070	1.276	49.4	20.7	76 E	—	61*
10	18	18 39.81	−47 19.4	1.099	1.269	49.1	20.8	74 E	—	61*
10	23	18 56.28	−45 59.8	1.127	1.261	48.9	20.8	73 E	—	61*
10	28	19 12.25	−44 35.6	1.152	1.251	48.6	20.8	71 E	—	61*
11	2	19 27.76	−43 7.0	1.175	1.238	48.5	20.8	69 E	2*	61*
11	7	19 42.85	−41 34.1	1.196	1.223	48.3	20.8	67 E	3*	60*
11	12	19 57.56	−39 56.8	1.215	1.206	48.3	20.8	65 E	5*	59*
11	17	20 11.90	−38 15.2	1.231	1.187	48.2	20.8	64 E	6*	57*
11	22	20 25.90	−36 29.1	1.244	1.166	48.3	20.8	62 E	8*	56*
11	27	20 39.59	−34 38.4	1.254	1.142	48.4	20.8	60 E	10*	54*
12	2	20 53.00	−32 42.8	1.261	1.116	48.5	20.8	58 E	12*	52*
12	7	21 6.16	−30 42.3	1.264	1.088	48.8	20.7	56 E	13*	49*
12	12	21 19.07	−28 36.6	1.264	1.058	49.2	20.7	54 E	15*	47*
12	17	21 31.75	−26 25.5	1.259	1.025	49.8	20.6	53 E	17*	44*
12	22	21 44.21	−24 8.5	1.251	0.990	50.5	20.5	51 E	19*	42*
12	27	21 56.44	−21 45.3	1.238	0.952	51.4	20.5	49 E	21*	39*
1	1	22 8.46	−19 15.4	1.220	0.913	52.6	20.4	47 E	22*	36*
1	6	22 20.24	−16 38.4	1.197	0.871	54.1	20.3	46 E	24*	33*
1	11	22 31.73	−13 53.9	1.168	0.827	56.0	20.2	44 E	25*	30*
1	16	22 42.85	−11 1.5	1.133	0.781	58.5	20.0	43 E	26*	27*
1	21	22 53.47	− 8 0.9	1.091	0.734	61.6	19.9	41 E	27*	24*
			247827 2003 SN_{198}							
12	27	20 53.18	−12 33.2	2.378	1.700	20.4	20.5	37 E	23*	21*
1	6	21 19.42	−10 47.9	2.416	1.686	18.8	20.5	34 E	22*	17*
1	16	21 45.72	− 8 49.7	2.452	1.676	17.2	20.5	30 E	21*	13*
1	26	22 12.01	− 6 40.3	2.486	1.668	15.5	20.4	27 E	19*	10*
2	5	22 38.24	− 4 22.1	2.519	1.664	13.8	20.4	24 E	17*	7*
2	15	23 4.40	− 1 57.2	2.550	1.662	12.0	20.4	21 E	14*	5*
2	25	23 30.48	+ 0 31.7	2.581	1.663	10.3	20.3	17 E	11*	3*
3	7	23 56.51	+ 3 2.0	2.610	1.667	8.5	20.3	14 E	8*	1*
3	17	0 22.51	+ 5 31.3	2.638	1.674	6.7	20.2	11 E	5*	—
3	27	0 48.51	+ 7 57.0	2.665	1.684	5.0	20.2	8 E	2*	—

247827 2003 *SN*$_{198}$ *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 6	1 14.51	+10 16.7	2.690	1.697	3.2	20.1	5 E	—	—
4 16	1 40.56	+12 28.2	2.714	1.712	1.6	20.0	3 E	—	—
4 26	2 6.64	+14 29.5	2.735	1.730	1.2	20.0	2 W	—	—
5 6	2 32.73	+16 18.9	2.753	1.750	2.6	20.2	5 W	—	—
5 16	2 58.80	+17 55.1	2.768	1.771	4.4	20.3	8 W	—	1*
5 26	3 24.78	+19 16.7	2.779	1.795	6.2	20.5	11 W	—	4*
6 5	3 50.59	+20 23.1	2.786	1.821	8.0	20.6	14 W	1*	8*
6 15	4 16.16	+21 13.8	2.788	1.848	9.7	20.7	18 W	4*	11*
6 25	4 41.34	+21 48.7	2.783	1.876	11.5	20.8	22 W	7*	13*
7 5	5 6.03	+22 8.1	2.773	1.905	13.2	20.9	25 W	10*	16*
7 15	5 30.11	+22 12.4	2.756	1.936	14.9	21.0	29 W	14*	19*
7 25	5 53.45	+22 2.6	2.732	1.967	16.6	21.0	34 W	19*	21*
8 4	6 15.94	+21 39.6	2.700	1.998	18.2	21.1	38 W	24*	23*
8 14	6 37.48	+21 4.8	2.660	2.031	19.7	21.2	42 W	29*	25*
8 24	6 57.93	+20 19.5	2.611	2.063	21.1	21.2	47 W	34*	28*
9 3	7 17.23	+19 25.3	2.555	2.096	22.4	21.2	52 W	39*	30*
9 13	7 35.25	+18 23.7	2.490	2.129	23.5	21.2	58 W	44*	32*
9 23	7 51.88	+17 16.5	2.418	2.161	24.5	21.2	63 W	49*	35*
10 3	8 7.01	+16 5.5	2.338	2.194	25.3	21.2	69 W	53*	38*
10 13	8 20.47	+14 52.5	2.251	2.226	25.7	21.2	76 W	56*	41*
10 23	8 32.07	+13 39.5	2.160	2.259	25.9	21.1	83 W	58*	44*
11 2	8 41.62	+12 28.7	2.064	2.290	25.7	21.0	90 W	57	48*
11 12	8 48.84	+11 22.4	1.967	2.322	25.0	21.0	98 W	56	51*
11 22	8 53.46	+10 23.2	1.872	2.353	23.7	20.8	107 W	55	53*
12 2	8 55.21	+ 9 33.5	1.781	2.383	21.8	20.7	116 W	55	54
12 12	8 53.86	+ 8 56.1	1.698	2.413	19.3	20.5	126 W	54	55
12 22	8 49.38	+ 8 33.4	1.630	2.442	16.0	20.4	137 W	54	55
1 1	8 41.99	+ 8 26.7	1.580	2.471	12.1	20.2	148 W	53	56
1 11	8 32.29	+ 8 36.0	1.553	2.499	7.9	20.0	160 W	54	55
1 21	8 21.34	+ 8 59.3	1.554	2.526	4.4	19.9	169 W	54	55

5732 1988 *WC*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 27	20 53.36	+ 1 42.7	3.671	3.044	13.0	20.7	44 E	36*	15*
1 6	21 6.37	+ 2 14.8	3.742	3.030	11.6	20.7	38 E	31*	8*
1 16	21 19.77	+ 2 56.4	3.799	3.014	10.1	20.6	32 E	26*	2*
1 26	21 33.47	+ 3 47.0	3.841	2.997	8.6	20.6	27 E	21*	—
2 5	21 47.39	+ 4 45.7	3.867	2.979	7.2	20.5	22 E	15*	—
2 15	22 1.45	+ 5 52.1	3.878	2.959	6.2	20.5	19 E	9*	—
2 25	22 15.62	+ 7 5.4	3.872	2.939	5.6	20.4	17 W	8*	—
3 7	22 29.83	+ 8 24.7	3.851	2.917	5.7	20.4	17 W	11*	—
3 17	22 44.07	+ 9 49.5	3.814	2.893	6.5	20.4	19 W	13*	3*
3 27	22 58.28	+11 18.9	3.763	2.869	7.7	20.4	23 W	15*	9*
4 6	23 12.46	+12 52.3	3.697	2.843	9.2	20.4	27 W	17*	14*
4 16	23 26.57	+14 29.1	3.617	2.816	10.9	20.4	32 W	20*	19*
4 26	23 40.58	+16 8.4	3.524	2.788	12.6	20.4	37 W	22*	24*
5 6	23 54.48	+17 49.6	3.420	2.758	14.2	20.4	42 W	25*	29*
5 16	0 8.24	+19 32.1	3.304	2.727	15.9	20.3	48 W	28*	32*
5 26	0 21.79	+21 15.2	3.179	2.695	17.5	20.3	53 W	32*	35*
6 5	0 35.11	+22 58.3	3.045	2.662	19.0	20.2	59 W	36*	37*
6 15	0 48.11	+24 40.6	2.903	2.627	20.4	20.1	64 W	42*	38*
6 25	1 0.69	+26 21.5	2.754	2.591	21.6	20.0	70 W	48*	37*
7 5	1 12.73	+28 0.1	2.601	2.554	22.7	19.9	76 W	54*	36
7 15	1 24.06	+29 35.7	2.444	2.516	23.6	19.8	82 W	62*	34
7 25	1 34.45	+31 6.9	2.284	2.476	24.2	19.6	89 W	69*	33
8 4	1 43.64	+32 32.6	2.124	2.435	24.5	19.4	95 W	75*	31
8 14	1 51.24	+33 50.7	1.966	2.393	24.4	19.2	102 W	79	30
8 19	1 54.32	+34 26.1	1.888	2.372	24.2	19.1	106 W	79	30
8 24	1 56.84	+34 58.5	1.811	2.350	23.9	19.0	109 W	80	29
8 29	1 58.73	+35 27.4	1.735	2.328	23.5	18.8	113 W	80	29
9 3	1 59.93	+35 52.2	1.662	2.306	22.9	18.7	117 W	81	28
9 8	2 0.38	+36 12.1	1.590	2.283	22.1	18.6	121 W	81	28
9 13	2 0.00	+36 26.1	1.521	2.261	21.2	18.4	126 W	81	28
9 18	1 58.78	+36 33.3	1.455	2.237	20.1	18.3	130 W	82	27
9 23	1 56.68	+36 32.5	1.392	2.214	18.9	18.1	134 W	82	27
9 28	1 53.69	+36 22.6	1.333	2.191	17.5	17.9	139 W	81	28
10 3	1 49.86	+36 2.3	1.279	2.167	15.9	17.8	144 W	81	28
10 8	1 45.26	+35 30.2	1.229	2.143	14.3	17.6	148 W	81	28
10 13	1 40.02	+34 45.4	1.184	2.118	12.7	17.4	152 W	80	29
10 18	1 34.33	+33 47.4	1.145	2.094	11.3	17.3	156 W	79	30
10 23	1 28.41	+32 36.3	1.113	2.069	10.3	17.2	158 E	78	31
10 28	1 22.48	+31 12.6	1.086	2.045	10.1	17.1	159 E	76	33
11 2	1 16.80	+29 37.8	1.066	2.020	10.7	17.0	158 E	75	34
11 7	1 11.61	+27 53.9	1.052	1.994	12.2	17.0	155 E	73	36
11 12	1 7.13	+26 3.9	1.045	1.969	14.2	17.1	151 E	71	38
11 17	1 3.52	+24 10.6	1.044	1.944	16.6	17.1	146 E	69	40
11 22	1 0.90	+22 17.2	1.049	1.918	19.0	17.2	141 E	67	42
11 27	0 59.33	+20 26.3	1.059	1.893	21.5	17.3	135 E	65	44
12 2	0 58.84	+18 40.3	1.073	1.867	23.8	17.3	130 E	64	45
12 7	0 59.43	+17 1.0	1.091	1.842	26.0	17.4	125 E	62	47
12 12	1 1.09	+15 29.9	1.113	1.816	28.1	17.5	120 E	60	49

5732 1988 *WC* *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 22	1 7.39	+12 54.4	1.163	1.765	31.5	17.6	110 E	58	51*
1 1	1 17.24	+10 54.7	1.220	1.715	34.2	17.7	102 E	56	51*
1 11	1 30.22	+ 9 28.2	1.278	1.665	36.1	17.8	94 E	54	50*
1 21	1 45.90	+ 8 29.9	1.335	1.617	37.4	17.9	87 E	53	48*

9202 1993 *PB*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 27	20 55.26	− 7 26.6	2.866	2.201	16.6	20.8	40 E	28*	20*
1 6	21 9.68	− 5 41.4	2.972	2.224	14.3	20.8	34 E	25*	13*
1 16	21 24.09	− 3 52.2	3.060	2.244	12.0	20.8	28 E	22*	6*
1 26	21 38.45	− 1 58.4	3.131	2.260	9.9	20.8	23 E	17*	—
2 5	21 52.76	+ 0 0.1	3.185	2.272	8.0	20.8	19 E	12*	—
2 15	22 7.00	+ 2 3.6	3.220	2.281	6.5	20.7	15 E	7*	—
2 25	22 21.15	+ 4 12.3	3.237	2.287	5.9	20.7	14 W	5*	—
3 7	22 35.22	+ 6 26.1	3.235	2.289	6.3	20.7	15 W	8*	—
3 17	22 49.22	+ 8 45.3	3.217	2.288	7.5	20.8	18 W	11*	2*
3 27	23 3.13	+11 10.2	3.181	2.283	9.3	20.8	22 W	14*	8*
4 6	23 16.99	+13 40.7	3.129	2.275	11.2	20.9	26 W	17*	13*
4 16	23 30.80	+16 17.5	3.062	2.263	13.3	20.9	31 W	20*	18*
4 26	23 44.58	+19 0.6	2.981	2.248	15.3	20.9	36 W	23*	22*
5 6	23 58.35	+21 50.7	2.888	2.230	17.3	20.9	41 W	27*	25*
5 16	0 12.15	+24 48.5	2.783	2.207	19.3	20.8	46 W	31*	27*
5 26	0 25.99	+27 54.5	2.668	2.182	21.2	20.8	51 W	35*	29*
6 5	0 39.94	+31 9.7	2.546	2.152	23.0	20.7	56 W	40*	29*
6 15	0 54.03	+34 35.3	2.417	2.119	24.8	20.6	61 W	46*	28*
6 25	1 8.33	+38 12.2	2.284	2.082	26.4	20.5	66 W	53*	25*
7 5	1 22.93	+42 2.1	2.148	2.041	27.9	20.4	70 W	60*	22*
7 15	1 37.95	+46 6.4	2.012	1.996	29.4	20.2	74 W	66*	18
7 25	1 53.57	+50 26.5	1.876	1.947	30.7	20.0	79 W	72*	14
7 30	2 1.71	+52 42.9	1.809	1.921	31.4	19.9	80 W	74*	11
8 4	2 10.15	+55 3.8	1.743	1.894	32.1	19.9	82 W	76*	9
8 9	2 18.95	+57 29.4	1.678	1.866	32.7	19.8	84 W	75*	7
8 14	2 28.21	+59 59.5	1.614	1.837	33.4	19.7	85 W	74*	4
8 19	2 38.12	+62 34.3	1.552	1.806	34.0	19.6	87 W	72*	1
8 24	2 48.91	+65 13.7	1.491	1.775	34.7	19.4	88 W	70	—
8 26	2 53.55	+66 18.6	1.468	1.762	35.0	19.4	89 W	69	—
8 28	2 58.43	+67 24.3	1.444	1.749	35.3	19.4	89 W	68	—
8 30	3 3.57	+68 30.6	1.421	1.735	35.6	19.3	89 W	66	—
9 1	3 9.03	+69 37.6	1.398	1.722	35.9	19.3	90 W	65	—
9 3	3 14.87	+70 45.1	1.376	1.708	36.2	19.2	90 W	64	—
9 5	3 21.17	+71 53.1	1.353	1.694	36.5	19.2	90 W	63	—
9 7	3 28.02	+73 1.6	1.331	1.680	36.9	19.1	91 W	62	—
9 9	3 35.55	+74 10.4	1.310	1.666	37.2	19.1	91 W	61	—
9 11	3 43.92	+75 19.3	1.289	1.652	37.6	19.1	91 W	60	—
9 13	3 53.38	+76 28.3	1.268	1.637	37.9	19.0	91 W	59	—
9 14	3 58.60	+77 2.7	1.257	1.629	38.1	19.0	91 W	58	—
9 15	4 4.21	+77 37.1	1.247	1.622	38.3	19.0	91 W	57	—
9 16	4 10.27	+78 11.2	1.237	1.614	38.5	18.9	92 W	57	—
9 17	4 16.85	+78 45.3	1.227	1.607	38.7	18.9	92 W	56	—
9 18	4 24.03	+79 19.0	1.217	1.599	38.9	18.9	92 W	56	—
9 19	4 31.89	+79 52.4	1.207	1.592	39.1	18.9	92 W	55	—
9 20	4 40.57	+80 25.4	1.197	1.584	39.3	18.9	92 W	55	—
9 21	4 50.19	+80 57.9	1.187	1.576	39.6	18.8	92 W	54	—
9 22	5 0.92	+81 29.7	1.177	1.568	39.8	18.8	92 W	54	—
9 23	5 12.94	+82 0.6	1.168	1.560	40.0	18.8	92 W	53	—
9 24	5 26.49	+82 30.4	1.158	1.553	40.2	18.8	92 W	52	—
9 25	5 41.81	+82 58.8	1.149	1.545	40.5	18.7	91 W	52*	—
9 26	5 59.18	+83 25.5	1.139	1.537	40.7	18.7	91 W	52*	—
9 27	6 18.88	+83 50.1	1.130	1.528	41.0	18.7	91 W	51*	—
9 28	6 41.15	+84 12.0	1.121	1.520	41.2	18.7	91 W	51*	—
9 29	7 6.12	+84 30.6	1.112	1.512	41.5	18.7	91 W	50*	—
9 30	7 33.73	+84 45.3	1.102	1.504	41.7	18.6	91 W	50*	—
10 1	8 3.63	+84 55.4	1.093	1.496	42.0	18.6	91 W	49*	—
10 2	8 35.12	+85 0.5	1.084	1.487	42.3	18.6	91 W	49*	—
10 3	9 7.21	+85 0.2	1.076	1.479	42.6	18.6	91 W	49*	—
10 4	9 38.80	+84 54.5	1.067	1.470	42.9	18.5	91 W	48*	—
10 5	10 8.87	+84 43.5	1.058	1.462	43.2	18.5	90 W	48*	—
10 6	10 36.70	+84 27.8	1.049	1.453	43.5	18.5	90 W	47*	—
10 7	11 1.91	+84 7.9	1.040	1.445	43.8	18.5	90 W	47*	—
10 8	11 24.39	+83 44.5	1.032	1.436	44.1	18.4	90 W	47*	—
10 9	11 44.28	+83 18.1	1.023	1.427	44.4	18.4	90 W	46*	—
10 10	12 1.79	+82 49.2	1.015	1.419	44.7	18.4	90 W	46*	—
10 11	12 17.22	+82 18.2	1.006	1.410	45.1	18.4	89 W	46*	—
10 12	12 30.83	+81 45.5	0.998	1.401	45.4	18.4	89 W	46*	—
10 13	12 42.88	+81 11.4	0.990	1.392	45.8	18.3	89 W	45*	—
10 14	12 53.60	+80 36.0	0.981	1.383	46.1	18.3	89 W	45*	—
10 15	13 3.18	+79 59.7	0.973	1.374	46.5	18.3	88 W	45*	—
10 16	13 11.79	+79 22.4	0.965	1.365	46.9	18.3	88 W	45*	—
10 17	13 19.58	+78 44.3	0.957	1.356	47.3	18.2	88 W	44*	—
10 18	13 26.64	+78 5.5	0.948	1.347	47.7	18.2	88 W	44*	—
10 19	13 33.09	+77 26.1	0.940	1.337	48.1	18.2	87 W	44*	—

9202 1993 *PB* *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 20	13 39.00	+76 46.1	0.932	1.328	48.5	18.2	87 E	44*	—
10 21	13 44.44	+76 5.5	0.924	1.319	48.9	18.2	87 E	44*	—
10 22	13 49.48	+75 24.5	0.916	1.309	49.3	18.1	86 E	44*	—
10 23	13 54.15	+74 43.0	0.908	1.300	49.8	18.1	86 E	44*	—
10 24	13 58.51	+74 1.0	0.900	1.290	50.2	18.1	86 E	44*	—
10 25	14 2.58	+73 18.6	0.892	1.281	50.7	18.1	85 E	44*	—
10 26	14 6.40	+72 35.8	0.884	1.271	51.2	18.0	85 E	44*	—
10 27	14 10.00	+71 52.5	0.877	1.261	51.7	18.0	85 E	44*	—
10 28	14 13.39	+71 8.8	0.869	1.252	52.2	18.0	84 E	44*	—
10 29	14 16.60	+70 24.7	0.861	1.242	52.7	18.0	84 E	44*	—
10 30	14 19.64	+69 40.1	0.853	1.232	53.2	18.0	83 E	44*	—
10 31	14 22.53	+68 55.2	0.845	1.222	53.7	17.9	83 E	43*	—
11 1	14 25.28	+68 9.7	0.837	1.212	54.3	17.9	82 E	43*	—
11 2	14 27.91	+67 23.8	0.829	1.202	54.9	17.9	82 W	43*	—
11 4	14 32.82	+65 50.6	0.814	1.182	56.0	17.8	81 W	43*	—
11 6	14 37.33	+64 15.2	0.798	1.161	57.2	17.8	80 W	43*	—
11 8	14 41.50	+62 37.6	0.782	1.141	58.5	17.8	79 W	44*	—
11 10	14 45.36	+60 57.3	0.767	1.120	59.9	17.7	78 W	44*	—
11 12	14 48.96	+59 14.2	0.751	1.099	61.3	17.7	77 W	44*	—
11 14	14 52.34	+57 27.8	0.735	1.078	62.8	17.6	76 W	44*	—
11 16	14 55.51	+55 37.7	0.720	1.057	64.4	17.6	75 W	45*	—
11 18	14 58.50	+53 43.4	0.704	1.035	66.1	17.5	73 W	45*	—
11 20	15 1.34	+51 44.4	0.689	1.014	67.9	17.5	72 W	46*	—
11 22	15 4.05	+49 40.0	0.673	0.992	69.8	17.5	70 W	46*	—
11 24	15 6.65	+47 29.6	0.658	0.970	71.8	17.4	69 W	47*	—
11 26	15 9.16	+45 12.5	0.643	0.948	73.9	17.4	67 W	47*	—
11 28	15 11.61	+42 47.9	0.628	0.926	76.2	17.4	66 W	47*	—
11 30	15 14.01	+40 14.9	0.613	0.904	78.5	17.4	64 W	47*	—
12 2	15 16.38	+37 32.7	0.599	0.882	81.0	17.3	62 W	47*	—
12 4	15 18.76	+34 40.4	0.586	0.860	83.7	17.3	60 W	47*	—
12 6	15 21.17	+31 37.3	0.574	0.838	86.4	17.3	58 W	47*	—
12 8	15 23.64	+28 22.6	0.562	0.816	89.3	17.4	56 W	46*	—
12 10	15 26.20	+24 55.8	0.552	0.794	92.2	17.4	54 W	46*	—
12 12	15 28.90	+21 16.7	0.543	0.773	95.2	17.4	51 W	44*	—
12 17	15 36.55	+11 18.1	0.530	0.721	102.6	17.6	46 W	40*	4*
12 22	15 46.18	+ 0 25.8	0.534	0.673	108.7	17.8	40 W	33*	12*
12 27	15 58.81	−10 35.3	0.557	0.630	111.7	17.9	36 W	24*	19*
1 1	16 15.47	−20 47.4	0.604	0.595	110.3	17.9	35 W	16*	24*
1 3	16 23.47	−24 27.0	0.628	0.583	108.5	17.8	34 W	13*	26*
1 5	16 32.27	−27 48.7	0.656	0.574	106.0	17.7	34 W	10*	27*
1 7	16 41.88	−30 51.0	0.686	0.567	103.0	17.6	34 W	7*	28*
1 9	16 52.29	−33 33.3	0.719	0.562	99.6	17.5	34 W	4*	28*
1 11	17 3.44	−35 55.3	0.754	0.559	95.8	17.5	34 W	1*	28*
1 13	17 15.24	−37 57.1	0.791	0.558	91.9	17.4	35 W	—	28*
1 15	17 27.59	−39 39.5	0.829	0.560	87.9	17.3	35 W	—	28*
1 17	17 40.36	−41 3.5	0.868	0.564	83.9	17.3	35 W	—	28*
1 19	17 53.39	−42 10.1	0.908	0.570	79.9	17.3	35 W	—	27*

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 56.26	−31 8.8	3.168	2.425	13.3	20.6	35 E	7*	28*
1 6	21 14.62	−29 5.5	3.199	2.390	11.6	20.5	29 E	6*	23*
1 16	21 33.09	−26 56.1	3.218	2.354	9.8	20.4	24 E	4*	18*
1 26	21 51.59	−24 40.6	3.225	2.317	8.0	20.3	19 E	2*	13*
2 5	22 10.08	−22 19.2	3.221	2.280	6.3	20.2	15 E	—	9*
2 15	22 28.56	−19 52.0	3.205	2.243	4.8	20.1	11 E	—	5*
2 25	22 47.02	−17 19.2	3.178	2.205	4.0	20.0	9 E	—	1*
3 7	23 5.47	−14 41.0	3.140	2.167	4.3	19.9	9 W	—	—
3 17	23 23.93	−11 57.8	3.092	2.128	5.5	19.9	12 W	—	4*
3 27	23 42.44	− 9 9.9	3.035	2.090	7.3	19.9	15 W	—	8*
4 6	0 1.05	− 6 17.5	2.969	2.052	9.3	19.9	19 W	—	13*
4 16	0 19.83	− 3 20.9	2.896	2.013	11.3	19.9	23 W	—	17*
4 26	0 38.83	− 0 20.5	2.816	1.975	13.5	19.9	27 W	—	21*
5 6	0 58.14	+ 2 43.5	2.730	1.938	15.6	19.9	31 W	3*	25*
5 16	1 17.87	+ 5 50.7	2.639	1.901	17.7	19.8	35 W	6*	29*
5 26	1 38.10	+ 9 0.7	2.545	1.865	19.8	19.8	39 W	10*	32*
6 5	1 58.98	+12 12.9	2.448	1.830	21.9	19.7	42 W	14*	34*
6 15	2 20.63	+15 26.8	2.349	1.797	23.9	19.6	46 W	19*	35*
6 25	2 43.21	+18 41.3	2.250	1.764	25.9	19.6	49 W	25*	35*
7 5	3 6.90	+21 55.4	2.151	1.734	27.8	19.5	53 W	31*	35*
7 15	3 31.87	+25 7.4	2.054	1.706	29.6	19.4	56 W	37*	34*
7 20	3 44.88	+26 41.9	2.006	1.693	30.4	19.4	57 W	40*	33*
7 25	3 58.29	+28 15.1	1.959	1.680	31.2	19.3	59 W	43*	32*
7 30	4 12.11	+29 46.6	1.913	1.668	32.0	19.3	61 W	46*	31*
8 4	4 26.36	+31 16.0	1.867	1.657	32.8	19.2	62 W	49*	29*
8 9	4 41.06	+32 42.9	1.823	1.646	33.5	19.2	64 W	52*	28*
8 14	4 56.20	+34 6.9	1.780	1.636	34.2	19.1	65 W	54*	27*
8 19	5 11.80	+35 27.4	1.738	1.627	34.8	19.1	67 W	57*	26*
8 24	5 27.85	+36 43.9	1.698	1.619	35.4	19.0	68 W	59*	24*
8 29	5 44.34	+37 56.2	1.658	1.611	35.9	19.0	69 W	62*	23*

174599 2003 QM_{70} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 3	6 1.25	+39 3.5	1.620	1.605	36.5	19.0	71 W	64*	22*
9 8	6 18.53	+40 5.6	1.583	1.599	36.9	18.9	72 W	66*	21*
9 13	6 36.13	+41 2.0	1.548	1.594	37.3	18.9	74 W	67*	20*
9 18	6 53.99	+41 52.5	1.514	1.590	37.7	18.8	75 W	69*	19*
9 23	7 12.02	+42 36.8	1.481	1.587	38.0	18.8	77 W	71*	18*
9 28	7 30.16	+43 14.9	1.450	1.585	38.2	18.7	78 W	72*	17*
10 3	7 48.28	+43 46.9	1.419	1.584	38.4	18.7	80 W	74*	16*
10 8	8 6.28	+44 13.0	1.390	1.584	38.6	18.7	81 W	75*	15*
10 13	8 24.05	+44 33.5	1.361	1.585	38.7	18.6	83 W	77*	15*
10 18	8 41.47	+44 48.9	1.334	1.587	38.7	18.6	85 W	78*	14*
10 23	8 58.45	+44 59.9	1.307	1.589	38.7	18.5	86 W	80*	14*
10 28	9 14.90	+45 7.2	1.281	1.593	38.6	18.5	88 W	82*	14*
11 2	9 30.70	+45 11.6	1.256	1.598	38.4	18.4	90 W	83*	14*
11 7	9 45.76	+45 14.1	1.231	1.603	38.2	18.4	92 W	85*	14*
11 12	10 0.00	+45 15.4	1.207	1.610	37.9	18.4	94 W	87*	14*
11 17	10 13.35	+45 16.6	1.183	1.617	37.5	18.3	96 W	90*	14*
11 22	10 25.75	+45 18.4	1.159	1.625	37.0	18.3	98 W	90	15*
11 27	10 37.11	+45 21.7	1.136	1.634	36.4	18.2	100 W	90	15*
12 2	10 47.37	+45 27.2	1.113	1.643	35.8	18.2	103 W	90	16*
12 7	10 56.42	+45 35.7	1.091	1.654	35.0	18.1	105 W	89	16*
12 12	11 4.20	+45 47.4	1.069	1.665	34.2	18.1	108 W	89	17*
12 17	11 10.60	+46 2.6	1.048	1.677	33.2	18.0	111 W	89	17*
12 22	11 15.55	+46 21.2	1.028	1.689	32.1	18.0	114 W	89	17*
12 27	11 18.94	+46 43.1	1.009	1.702	30.9	17.9	117 W	88	17*
1 1	11 20.64	+47 7.5	0.991	1.716	29.5	17.8	121 W	88	17
1 6	11 20.56	+47 33.2	0.975	1.730	28.1	17.8	124 W	87	16
1 11	11 18.63	+47 58.6	0.962	1.745	26.5	17.7	128 W	87	16
1 16	11 14.85	+48 21.6	0.951	1.760	24.9	17.7	131 W	87	16
1 21	11 9.27	+48 39.7	0.943	1.776	23.3	17.6	134 W	86	15

291005 2005 XR_{92}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 56.80	−21 5.7	2.356	1.656	20.1	20.6	35 E	16*	25*
1 6	21 24.20	−18 46.6	2.398	1.650	18.5	20.5	32 E	16*	21*
1 16	21 51.15	−16 13.6	2.438	1.646	16.7	20.5	29 E	15*	17*
1 26	22 17.63	−13 29.2	2.477	1.644	15.0	20.5	26 E	14*	14*
2 5	22 43.64	−10 36.0	2.514	1.646	13.2	20.5	22 E	13*	11*
2 15	23 9.21	− 7 36.5	2.550	1.649	11.4	20.4	19 E	10*	8*
2 25	23 34.41	− 4 33.4	2.584	1.656	9.5	20.4	16 E	8*	6*
3 7	23 59.30	− 1 29.2	2.617	1.665	7.7	20.3	13 E	5*	3*
3 17	0 23.98	+ 1 33.8	2.647	1.676	5.8	20.3	10 E	3*	1*
3 27	0 48.49	+ 4 33.2	2.676	1.689	4.0	20.2	7 E	—	—
4 6	1 12.93	+ 7 27.0	2.702	1.705	2.1	20.2	4 E	—	—
4 16	1 37.35	+10 13.2	2.726	1.722	0.2	20.0	0 E	—	—
4 26	2 1.81	+12 50.1	2.746	1.742	1.7	20.2	3 W	—	—
5 6	2 26.33	+15 16.2	2.762	1.763	3.6	20.4	6 W	—	—
5 16	2 50.93	+17 30.3	2.774	1.785	5.4	20.5	10 W	—	3*
5 26	3 15.59	+19 31.1	2.781	1.809	7.3	20.6	13 W	1*	6*
6 5	3 40.29	+21 18.0	2.783	1.834	9.1	20.7	17 W	4*	9*
6 15	4 4.97	+22 50.4	2.779	1.859	10.9	20.8	20 W	7*	12*
6 25	4 29.54	+24 8.0	2.768	1.886	12.7	20.9	24 W	10*	14*
7 5	4 53.92	+25 10.9	2.751	1.913	14.4	21.0	28 W	14*	16*
7 15	5 17.98	+25 59.4	2.727	1.941	16.1	21.1	32 W	19*	18*
7 25	5 41.59	+26 34.3	2.695	1.969	17.8	21.2	36 W	24*	20*
8 4	6 4.62	+26 56.6	2.655	1.998	19.3	21.2	41 W	29*	21*
8 14	6 26.95	+27 7.4	2.607	2.026	20.8	21.2	45 W	34*	23*
8 24	6 48.42	+27 8.4	2.551	2.055	22.2	21.3	50 W	40*	24*
9 3	7 8.90	+27 1.4	2.488	2.084	23.4	21.3	55 W	45*	25*
9 13	7 28.26	+26 48.3	2.416	2.112	24.5	21.3	61 W	51*	27*
9 23	7 46.33	+26 31.3	2.336	2.140	25.4	21.3	66 W	56*	28*
10 3	8 2.96	+26 13.0	2.250	2.168	26.1	21.2	72 W	62*	30*
10 13	8 17.97	+25 55.8	2.158	2.196	26.5	21.2	79 W	66*	32*
10 23	8 31.11	+25 42.5	2.062	2.223	26.5	21.1	86 W	70*	34*
11 2	8 42.14	+25 35.9	1.963	2.249	26.1	21.0	93 W	71	36*
11 12	8 50.72	+25 38.7	1.863	2.275	25.3	20.9	101 W	71	37*
11 22	8 56.50	+25 53.4	1.765	2.300	23.8	20.8	110 W	71	38*
12 2	8 59.09	+26 21.4	1.674	2.325	21.6	20.6	120 W	71	38
12 12	8 58.11	+27 2.8	1.593	2.349	18.8	20.4	130 W	72	37
12 22	8 53.39	+27 54.9	1.526	2.372	15.2	20.2	141 W	73	36
12 27	8 49.66	+28 23.4	1.500	2.384	13.1	20.1	147 W	73	36
1 1	8 45.08	+28 52.3	1.480	2.395	11.0	20.0	152 W	74	35
1 6	8 39.76	+29 20.5	1.466	2.406	8.8	19.9	158 W	74	35
1 11	8 33.84	+29 46.9	1.458	2.417	6.7	19.8	163 W	75	34
1 16	8 27.50	+30 10.3	1.457	2.427	5.0	19.8	168 W	75	34
1 21	8 20.94	+30 29.9	1.464	2.438	4.3	19.7	169 W	75	34

14581 1998 RT_4

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	20 57.00	− 7 56.8	2.909	2.244	16.3	19.1	40 E	28*	20*
1 6	21 16.04	− 7 58.2	2.942	2.198	14.5	19.0	34 E	24*	15*
1 16	21 35.78	− 7 47.5	2.965	2.153	12.6	18.9	29 E	20*	11*
1 26	21 56.15	− 7 25.7	2.977	2.107	10.6	18.8	23 E	16*	7*
2 5	22 17.09	− 6 54.0	2.979	2.063	8.4	18.6	18 E	11*	4*

14581 1998 RT_4 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 15	22 38.58	− 6 13.5	2.970	2.019	6.2	18.5	13 E	6*	1*
2 25	23 0.62	− 5 25.8	2.951	1.976	4.0	18.3	8 E	2*	—
3 7	23 23.19	− 4 32.1	2.923	1.934	1.8	18.1	3 E	—	—
3 17	23 46.33	− 3 34.0	2.887	1.893	1.1	18.0	2 W	—	—
3 27	0 10.06	− 2 33.3	2.844	1.854	3.2	18.0	6 W	—	—
4 6	0 34.42	− 1 31.4	2.795	1.818	5.5	18.1	10 W	—	3*
4 16	0 59.47	− 0 30.4	2.741	1.783	7.8	18.1	14 W	—	7*
4 26	1 25.21	+ 0 27.9	2.683	1.751	10.0	18.1	18 W	—	10*
5 6	1 51.69	+ 1 21.5	2.624	1.722	12.2	18.1	21 W	—	14*
5 16	2 18.90	+ 2 8.3	2.565	1.696	14.3	18.1	24 W	—	17*
5 26	2 46.80	+ 2 46.3	2.507	1.674	16.2	18.1	27 W	—	21*
6 5	3 15.32	+ 3 13.6	2.451	1.656	18.0	18.1	30 W	—	24*
6 15	3 44.36	+ 3 28.3	2.399	1.642	19.7	18.1	33 W	—	27*
6 25	4 13.74	+ 3 29.2	2.351	1.632	21.1	18.1	35 W	—	29*
7 5	4 43.27	+ 3 15.5	2.308	1.626	22.4	18.0	38 W	1*	32*
7 15	5 12.72	+ 2 46.7	2.270	1.625	23.6	18.0	40 W	4*	34*
7 25	5 41.84	+ 2 3.3	2.238	1.628	24.6	18.0	42 W	7*	36*
8 4	6 10.40	+ 1 6.4	2.210	1.636	25.4	18.1	44 W	10*	37*
8 14	6 38.18	− 0 2.8	2.185	1.648	26.2	18.1	46 W	14*	39*
8 24	7 4.98	− 1 22.2	2.163	1.665	26.8	18.1	48 W	17*	40*
9 3	7 30.66	− 2 49.7	2.141	1.685	27.4	18.1	50 W	20*	42*
9 13	7 55.07	− 4 23.1	2.119	1.709	28.0	18.1	53 W	23*	44*
9 23	8 18.11	− 6 0.1	2.094	1.737	28.5	18.2	56 W	26*	46*
10 3	8 39.72	− 7 38.5	2.065	1.767	29.0	18.2	59 W	28*	48*
10 13	8 59.79	− 9 16.3	2.031	1.801	29.4	18.2	62 W	30*	51*
10 23	9 18.23	−10 51.1	1.991	1.836	29.8	18.2	66 W	31*	54*
11 2	9 34.96	−12 20.9	1.945	1.874	30.0	18.2	71 W	32*	58*
11 12	9 49.80	−13 43.3	1.891	1.914	30.1	18.2	76 W	31*	62*
11 22	10 2.58	−14 55.3	1.831	1.955	30.0	18.2	82 W	30	68*
12 2	10 13.08	−15 53.9	1.765	1.998	29.6	18.1	88 W	29	74*
12 7	10 17.39	−16 17.0	1.730	2.019	29.2	18.1	92 W	29	77*
12 12	10 21.03	−16 35.1	1.695	2.041	28.7	18.1	96 W	28	79*
12 17	10 23.96	−16 47.6	1.659	2.063	28.1	18.0	99 W	28	81*
12 22	10 26.15	−16 53.9	1.623	2.086	27.3	18.0	104 W	28	81
12 27	10 27.58	−16 53.2	1.587	2.108	26.4	17.9	108 W	28	81
1 1	10 28.22	−16 44.8	1.553	2.131	25.3	17.9	112 W	28	81
1 6	10 28.05	−16 27.8	1.519	2.154	24.0	17.8	117 W	29	80
1 11	10 27.09	−16 1.5	1.488	2.176	22.5	17.7	122 W	29	80
1 16	10 25.36	−15 25.2	1.460	2.199	20.9	17.7	127 W	30	79
1 21	10 22.91	−14 38.6	1.435	2.222	19.0	17.6	133 W	30	79

470317 2007 PJ_{21}

12 27	20 57.73	−18 6.0	2.396	1.706	20.0	20.9	36 E	19*	24*
1 6	21 24.33	−15 22.3	2.486	1.746	17.9	20.9	33 E	19*	20*
1 16	21 49.60	−12 33.7	2.577	1.788	15.7	21.0	30 E	18*	16*
1 26	22 13.67	− 9 42.6	2.666	1.832	13.6	21.0	26 E	17*	12*
2 5	22 36.66	− 6 51.2	2.754	1.878	11.4	21.1	22 E	14*	8*
2 15	22 58.73	− 4 1.1	2.838	1.925	9.2	21.1	18 E	11*	4*
2 25	23 19.96	− 1 13.7	2.918	1.974	7.1	21.1	14 E	8*	1*
3 7	23 40.48	+ 1 29.9	2.991	2.023	5.0	21.1	10 E	4*	—
3 17	0 0.36	+ 4 8.9	3.058	2.073	3.2	21.1	7 E	—	—
3 27	0 19.69	+ 6 42.6	3.117	2.123	2.0	21.1	4 W	—	—
4 6	0 38.52	+ 9 10.4	3.167	2.174	2.7	21.3	6 W	—	—
4 16	0 56.90	+11 32.0	3.207	2.224	4.4	21.5	10 W	2*	2*

313593 2003 NQ_4

12 27	20 58.01	− 9 4.5	2.359	1.719	21.4	20.8	40 E	27*	21*
1 6	21 23.95	− 7 5.2	2.432	1.739	19.5	20.8	36 E	26*	16*
1 16	21 49.37	− 4 57.8	2.504	1.760	17.7	20.8	33 E	25*	12*
1 26	22 14.27	− 2 44.4	2.574	1.784	15.7	20.9	29 E	22*	9*
2 5	22 38.64	− 0 26.9	2.643	1.809	13.8	20.9	26 E	20*	6*
2 15	23 2.53	+ 1 52.7	2.709	1.836	11.9	20.9	22 E	16*	3*
2 25	23 25.98	+ 4 12.6	2.772	1.864	9.9	20.9	19 E	13*	—
3 7	23 49.03	+ 6 31.0	2.831	1.893	8.0	20.9	15 E	9*	—
3 17	0 11.74	+ 8 46.6	2.885	1.923	6.2	20.9	12 E	6*	—
3 27	0 34.13	+10 57.7	2.934	1.954	4.5	20.9	9 E	2*	—
4 6	0 56.25	+13 3.3	2.976	1.986	3.4	20.9	7 W	—	—
4 16	1 18.14	+15 2.3	3.011	2.018	3.3	20.9	7 W	1*	—
4 26	1 39.80	+16 53.6	3.039	2.050	4.3	21.1	9 W	2*	—
5 6	2 1.25	+18 36.4	3.058	2.083	5.9	21.2	12 W	4*	4*
5 16	2 22.48	+20 10.3	3.068	2.116	7.6	21.3	16 W	5*	8*
5 26	2 43.45	+21 34.5	3.069	2.148	9.4	21.4	20 W	8*	11*

100017 1989 TN_2

12 27	20 58.34	−14 39.1	2.586	1.903	18.3	21.0	37 E	22*	23*
1 6	21 21.33	−13 24.3	2.617	1.871	16.6	20.9	33 E	20*	18*
1 16	21 44.78	−11 56.5	2.641	1.840	14.9	20.9	29 E	18*	14*
1 26	22 8.62	−10 16.7	2.659	1.810	13.1	20.8	25 E	15*	11*
2 5	22 32.77	− 8 26.1	2.670	1.782	11.2	20.7	21 E	13*	8*
2 15	22 57.24	− 6 26.1	2.677	1.755	9.4	20.6	17 E	9*	5*
2 25	23 22.00	− 4 18.4	2.679	1.730	7.5	20.5	13 E	6*	3*

100017 1989 TN_2 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 7	23 47.07	− 2 5.0	2.677	1.708	5.7	20.4	10 E	3*	1*
3 17	0 12.47	+ 0 12.1	2.672	1.688	3.9	20.2	7 E	—	—
3 27	0 38.23	+ 2 30.6	2.664	1.670	2.3	20.1	4 E	—	—
4 6	1 4.37	+ 4 48.0	2.655	1.655	1.2	20.0	2 E	—	—
4 16	1 30.94	+ 7 1.9	2.644	1.644	2.0	20.0	3 W	—	—
4 26	1 57.94	+ 9 9.6	2.633	1.635	3.5	20.1	6 W	—	—
5 6	2 25.36	+11 8.7	2.621	1.629	5.1	20.2	8 W	—	2*
5 16	2 53.19	+12 56.7	2.608	1.627	6.8	20.2	11 W	—	5*
5 26	3 21.35	+14 31.2	2.596	1.628	8.3	20.3	13 W	—	7*
6 5	3 49.76	+15 50.5	2.583	1.632	9.9	20.4	16 W	—	10*
6 15	4 18.31	+16 53.0	2.569	1.639	11.4	20.4	19 W	—	12*
6 25	4 46.82	+17 37.5	2.555	1.650	13.0	20.5	21 W	3*	15*
7 5	5 15.15	+18 3.7	2.539	1.664	14.4	20.5	24 W	6*	17*
7 15	5 43.11	+18 11.5	2.522	1.680	15.9	20.6	27 W	9*	19*
7 25	6 10.52	+18 1.6	2.502	1.699	17.4	20.7	30 W	13*	20*
8 4	6 37.22	+17 35.1	2.479	1.721	18.8	20.7	33 W	17*	22*
8 14	7 3.07	+16 53.3	2.453	1.744	20.2	20.8	36 W	21*	24*
8 24	7 27.94	+15 58.3	2.423	1.770	21.5	20.8	40 W	26*	25*
9 3	7 51.75	+14 51.9	2.387	1.798	22.8	20.9	44 W	30*	27*
9 13	8 14.40	+13 36.2	2.346	1.827	24.0	20.9	48 W	34*	29*
9 23	8 35.84	+12 13.7	2.299	1.857	25.2	20.9	52 W	38*	31*
10 3	8 56.01	+10 46.5	2.246	1.889	26.2	20.9	57 W	42*	34*
10 13	9 14.83	+ 9 16.9	2.186	1.922	27.2	20.9	62 W	45*	37*
10 23	9 32.22	+ 7 47.3	2.120	1.955	27.9	20.9	67 W	48*	40*
11 2	9 48.09	+ 6 20.0	2.047	1.989	28.4	20.9	73 W	50*	44*
11 12	10 2.27	+ 4 57.5	1.969	2.024	28.7	20.9	79 W	50*	48*
11 22	10 14.60	+ 3 42.5	1.886	2.058	28.6	20.8	85 W	49	52*
12 2	10 24.85	+ 2 37.8	1.801	2.093	28.1	20.7	93 W	48	57*
12 12	10 32.73	+ 1 46.5	1.714	2.128	27.0	20.6	101 W	47	61*
12 22	10 37.95	+ 1 12.2	1.628	2.163	25.4	20.5	109 W	46	63
1 1	10 40.22	+ 0 58.0	1.548	2.198	23.1	20.4	119 W	46	63
1 11	10 39.31	+ 1 7.3	1.477	2.232	20.0	20.2	129 W	46	63
1 21	10 35.23	+ 1 41.6	1.420	2.266	16.1	20.0	140 W	47	62

331522 2000 QD_{70}

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*
1 26	22 25.98	−10 24.2	2.426	1.630	16.7	20.9	28 E	18*	15*
2 5	22 54.00	− 8 26.9	2.483	1.649	14.9	20.9	25 E	16*	12*
2 15	23 21.36	− 6 23.1	2.540	1.671	13.1	20.9	22 E	13*	10*
2 25	23 48.08	− 4 15.7	2.598	1.697	11.2	20.9	19 E	11*	9*
3 7	0 14.17	− 2 7.8	2.654	1.725	9.3	20.9	16 E	8*	7*
3 17	0 39.69	− 0 1.7	2.709	1.757	7.5	20.9	13 E	4*	5*
3 27	1 4.67	+ 2 0.3	2.762	1.790	5.8	20.9	10 E	1*	4*
4 6	1 29.15	+ 3 56.1	2.812	1.826	4.3	20.9	8 E	—	2*
4 16	1 53.18	+ 5 44.2	2.859	1.864	3.2	21.0	6 E	—	—
4 26	2 16.75	+ 7 23.2	2.900	1.903	3.2	21.0	6 E	—	—
5 6	2 39.88	+ 8 52.0	2.936	1.943	4.2	21.2	8 W	—	—
5 16	3 2.58	+10 9.9	2.966	1.984	5.7	21.3	11 W	—	4*
5 26	3 24.81	+11 16.2	2.989	2.026	7.3	21.4	15 W	—	8*

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12 27	20 58.53	−30 27.5	1.927	1.257	26.7	19.6	35 E	8*	28*
1 6	21 29.88	−30 33.7	1.877	1.176	26.8	19.4	33 E	6*	26*
1 16	22 4.16	−30 9.5	1.811	1.096	27.7	19.2	31 E	5*	25*
1 26	22 41.47	−29 6.7	1.731	1.020	29.7	19.0	31 E	4*	25*
1 31	23 1.27	−28 17.3	1.686	0.985	31.2	18.9	31 E	4*	25*
2 5	23 21.81	−27 13.7	1.638	0.951	32.9	18.8	32 E	4*	26*
2 10	23 43.08	−25 53.9	1.589	0.920	34.9	18.8	32 E	5*	26*
2 15	0 5.03	−24 16.0	1.539	0.892	37.2	18.7	33 E	6*	27*
2 20	0 27.57	−22 18.1	1.488	0.867	39.6	18.6	34 E	7*	28*
2 25	0 50.63	−19 58.5	1.438	0.847	42.2	18.6	35 E	8*	29*
3 2	1 14.09	−17 16.0	1.391	0.832	44.7	18.5	36 E	10*	30*
3 7	1 37.86	−14 10.2	1.347	0.823	47.2	18.5	37 E	12*	31*
3 12	2 1.83	−10 41.7	1.307	0.819	49.5	18.5	39 E	15*	32*
3 17	2 25.93	− 6 52.9	1.274	0.821	51.3	18.5	40 E	17*	32*
3 22	2 50.07	− 2 47.5	1.248	0.828	52.8	18.5	41 E	20*	32*
3 27	3 14.21	+ 1 29.1	1.231	0.841	53.7	18.5	43 E	23*	32*
4 1	3 38.33	+ 5 50.4	1.222	0.860	54.0	18.6	44 E	26*	32*
4 6	4 2.41	+10 9.7	1.223	0.882	53.9	18.6	45 E	29*	31*
4 11	4 26.47	+14 20.1	1.233	0.909	53.2	18.7	47 E	31*	30*
4 16	4 50.51	+18 15.7	1.251	0.939	52.2	18.8	48 E	34*	29*
4 21	5 14.50	+21 51.9	1.277	0.972	50.9	18.9	49 E	35*	28*
4 26	5 38.41	+25 5.6	1.310	1.007	49.4	18.9	49 E	37*	27*
5 1	6 2.19	+27 55.2	1.349	1.044	47.7	19.0	50 E	38*	25*
5 6	6 25.78	+30 20.1	1.392	1.082	46.0	19.1	51 E	39*	24*
5 11	6 49.10	+32 20.8	1.440	1.121	44.3	19.2	51 E	40*	23*
5 16	7 12.06	+33 58.5	1.490	1.161	42.6	19.3	51 E	40*	23*
5 21	7 34.56	+35 14.6	1.543	1.202	41.0	19.4	51 E	40*	22*
5 26	7 56.51	+36 11.0	1.598	1.242	39.3	19.6	51 E	40*	22*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
89959 2002 NT_7									
	h m	° ′			°	m	°	°	°
5 31	8 17.84	+36 49.6	1.654	1.283	37.8	19.7	51 E	40*	21*
6 5	8 38.50	+37 12.3	1.712	1.323	36.3	19.8	51 E	39*	21*
6 10	8 58.45	+37 20.9	1.769	1.364	34.9	19.9	50 E	39*	21*
6 15	9 17.66	+37 17.3	1.827	1.404	33.5	19.9	50 E	38*	21*
6 20	9 36.14	+37 3.0	1.886	1.443	32.2	20.0	49 E	38*	21*
6 25	9 53.88	+36 39.5	1.944	1.482	30.9	20.1	49 E	37*	21*
6 30	10 10.91	+36 8.2	2.001	1.521	29.8	20.2	48 E	36*	21*
7 5	10 27.26	+35 30.2	2.059	1.559	28.6	20.3	47 E	36*	21*
7 10	10 42.98	+34 46.6	2.115	1.596	27.5	20.4	46 E	35*	21*
7 15	10 58.09	+33 58.3	2.171	1.633	26.5	20.4	46 E	34*	21*
7 20	11 12.65	+33 6.1	2.227	1.669	25.5	20.5	45 E	34*	21*
7 25	11 26.69	+32 10.8	2.281	1.704	24.5	20.6	44 E	33*	21*
7 30	11 40.25	+31 13.1	2.335	1.739	23.5	20.7	43 E	33*	20*
8 4	11 53.38	+30 13.4	2.387	1.773	22.6	20.7	42 E	32*	20*
8 9	12 6.12	+29 12.3	2.439	1.806	21.8	20.8	41 E	31*	19*
8 14	12 18.50	+28 10.2	2.489	1.839	20.9	20.8	40 E	31*	18*
8 19	12 30.55	+27 7.7	2.538	1.871	20.1	20.9	40 E	30*	18*
8 24	12 42.31	+26 5.0	2.586	1.902	19.3	20.9	39 E	30*	17*
8 29	12 53.79	+25 2.4	2.632	1.933	18.6	21.0	38 E	30*	16*
9 3	13 5.04	+24 0.2	2.677	1.963	17.9	21.0	37 E	29*	14*
9 8	13 16.08	+22 58.8	2.720	1.992	17.2	21.1	36 E	29*	13*
9 13	13 26.92	+21 58.3	2.762	2.021	16.6	21.1	35 E	28*	12*
9 18	13 37.58	+20 59.1	2.802	2.048	15.9	21.2	34 E	28*	10*
9 23	13 48.07	+20 1.3	2.841	2.075	15.4	21.2	33 E	27*	8*
9 28	13 58.42	+19 5.1	2.877	2.102	14.8	21.2	32 E	26*	7*
10 3	14 8.64	+18 10.7	2.912	2.128	14.3	21.3	32 E	26*	5*
10 8	14 18.73	+17 18.3	2.945	2.153	13.9	21.3	31 E	25*	2*
10 13	14 28.72	+16 28.0	2.975	2.177	13.5	21.3	31 E	24*	—
10 18	14 38.59	+15 40.0	3.004	2.201	13.2	21.4	30 E	24*	—
10 23	14 48.36	+14 54.4	3.030	2.224	12.9	21.4	30 E	23*	—
10 28	14 58.04	+14 11.3	3.054	2.246	12.7	21.4	30 E	22*	—
11 2	15 7.63	+13 30.8	3.075	2.268	12.6	21.5	30 E	21*	—
11 7	15 17.13	+12 53.2	3.094	2.289	12.5	21.5	30 E	20*	—
26677 2001 EJ_{18}									
12 27	20 58.58	−36 34.0	2.237	1.550	21.8	20.5	36 E	2*	30*
1 1	21 15.21	−35 26.5	2.256	1.552	21.1	20.5	35 E	3*	29*
1 6	21 31.49	−34 12.7	2.275	1.553	20.5	20.5	34 E	3*	27*
1 11	21 47.40	−32 53.2	2.293	1.554	19.8	20.5	32 E	3*	26*
1 16	22 2.94	−31 28.4	2.310	1.555	19.2	20.4	31 E	4*	25*
1 21	22 18.11	−29 59.0	2.327	1.556	18.5	20.4	30 E	4*	24*
1 26	22 32.92	−28 25.4	2.344	1.557	17.8	20.4	29 E	4*	23*
1 31	22 47.37	−26 48.2	2.360	1.558	17.2	20.4	28 E	4*	22*
2 5	23 1.50	−25 7.9	2.376	1.559	16.5	20.4	27 E	4*	21*
2 10	23 15.32	−23 25.0	2.392	1.560	15.8	20.4	25 E	3*	19*
2 15	23 28.86	−21 39.9	2.407	1.561	15.1	20.4	24 E	3*	18*
2 25	23 55.14	−18 5.0	2.436	1.563	13.7	20.4	22 E	1*	16*
3 7	0 20.54	−14 26.5	2.463	1.564	12.3	20.4	20 E	—	14*
3 17	0 45.26	−10 47.0	2.487	1.565	10.9	20.3	17 E	—	11*
3 27	1 9.47	− 7 9.3	2.508	1.566	9.5	20.3	15 E	—	9*
4 6	1 33.32	− 3 35.2	2.526	1.567	8.3	20.3	13 E	—	6*
4 16	1 57.00	− 0 6.4	2.539	1.568	7.2	20.2	11 E	—	3*
4 26	2 20.63	+ 3 15.5	2.548	1.568	6.6	20.2	10 E	—	—
5 6	2 44.35	+ 6 29.1	2.551	1.568	6.5	20.2	10 W	—	—
5 16	3 8.31	+ 9 33.6	2.549	1.568	7.0	20.2	11 W	—	3*
5 26	3 32.60	+12 27.8	2.541	1.568	8.1	20.3	13 W	—	6*
6 5	3 57.33	+15 10.9	2.527	1.568	9.5	20.3	15 W	—	9*
6 15	4 22.60	+17 42.0	2.506	1.567	11.2	20.4	17 W	—	11*
6 25	4 48.49	+20 0.3	2.479	1.566	13.0	20.4	20 W	4*	13*
7 5	5 15.05	+22 5.0	2.446	1.565	14.9	20.4	23 W	9*	14*
7 15	5 42.35	+23 55.4	2.406	1.563	16.9	20.5	26 W	13*	15*
7 25	6 10.38	+25 30.7	2.361	1.562	18.8	20.5	30 W	18*	16*
8 4	6 39.16	+26 50.3	2.310	1.560	20.7	20.5	33 W	23*	16*
8 14	7 8.65	+27 53.6	2.255	1.558	22.6	20.5	36 W	28*	16*
8 24	7 38.77	+28 40.3	2.195	1.556	24.5	20.5	40 W	32*	15*
9 3	8 9.45	+29 10.2	2.132	1.554	26.2	20.5	43 W	36*	15*
9 13	8 40.57	+29 23.5	2.067	1.552	27.9	20.5	46 W	40*	14*
9 23	9 11.98	+29 20.9	2.000	1.550	29.5	20.4	50 W	43*	14*
10 3	9 43.55	+29 3.1	1.932	1.547	31.0	20.4	53 W	47*	13*
10 13	10 15.12	+28 31.8	1.863	1.545	32.4	20.4	56 W	50*	13*
10 23	10 46.52	+27 48.8	1.795	1.542	33.6	20.3	59 W	53*	13*
11 2	11 17.62	+26 56.2	1.727	1.539	34.8	20.3	62 W	56*	14*
11 12	11 48.25	+25 56.9	1.661	1.537	35.8	20.2	65 W	59*	15*
11 22	12 18.28	+24 53.8	1.596	1.534	36.7	20.1	68 W	61*	17*
12 2	12 47.56	+23 49.7	1.532	1.532	37.6	20.1	71 W	63*	19*
12 12	13 15.94	+22 47.9	1.469	1.529	38.3	20.0	74 W	65*	22*
12 22	13 43.26	+21 51.0	1.407	1.527	38.9	19.9	77 W	65*	25*
1 1	14 9.37	+21 1.4	1.345	1.525	39.5	19.8	80 W	66*	29*
1 11	14 34.05	+20 21.3	1.282	1.522	39.9	19.7	83 W	65*	32*
1 21	14 57.09	+19 51.9	1.219	1.520	40.2	19.6	87 W	65	36*

(continuation)

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
158299 2001 UC_{126}									
	h m	° ′			°	m	°	°	°
12 27	20 58.78	−22 9.3	2.323	1.629	20.6	20.9	36 E	15*	26*
1 6	21 28.09	−20 19.4	2.385	1.646	18.8	20.9	33 E	15*	23*
1 16	21 56.48	−18 14.5	2.447	1.664	17.0	21.0	30 E	14*	19*
1 26	22 23.94	−15 58.0	2.508	1.686	15.1	21.0	27 E	13*	16*
2 5	22 50.46	−13 33.1	2.569	1.709	13.2	21.0	23 E	11*	14*
2 15	23 16.13	−11 2.8	2.627	1.734	11.3	21.0	20 E	9*	11*
2 25	23 41.00	− 8 30.0	2.684	1.761	9.4	21.0	17 E	6*	9*
3 7	0 5.16	− 5 57.1	2.737	1.790	7.6	21.0	14 E	3*	7*
3 17	0 28.70	− 3 26.3	2.787	1.819	5.8	21.0	11 E	—	4*
3 27	0 51.70	− 0 59.6	2.833	1.850	4.3	21.0	8 E	—	2*
4 6	1 14.22	+ 1 21.6	2.873	1.881	3.3	21.0	6 E	—	—
4 16	1 36.34	+ 3 35.8	2.907	1.913	3.4	21.1	6 E	—	—
4 26	1 58.09	+ 5 42.0	2.935	1.946	4.4	21.2	9 W	—	1*
5 6	2 19.51	+ 7 39.1	2.956	1.979	6.0	21.3	12 W	—	5*
5 16	2 40.60	+ 9 26.6	2.968	2.012	7.7	21.4	15 W	—	9*
468448 2003 LS_3									
12 27	21 1.19	−17 19.8	1.885	1.253	28.4	20.9	37 E	20*	25*
1 1	21 20.48	−16 24.2	1.898	1.259	28.0	20.9	37 E	20*	24*
1 6	21 39.57	−15 21.8	1.914	1.267	27.5	21.0	37 E	21*	23*
1 11	21 58.41	−14 13.2	1.933	1.278	27.0	21.0	36 E	21*	23*
1 16	22 16.95	−12 59.4	1.955	1.291	26.4	21.0	36 E	21*	22*
1 21	22 35.15	−11 41.1	1.979	1.306	25.8	21.0	35 E	22*	21*
1 26	22 53.00	−10 19.4	2.006	1.323	25.1	21.1	35 E	22*	21*
1 31	23 10.47	− 8 55.1	2.036	1.341	24.4	21.1	34 E	22*	20*
2 5	23 27.56	− 7 29.0	2.068	1.362	23.7	21.2	34 E	22*	20*
2 10	23 44.28	− 6 2.0	2.102	1.384	22.9	21.2	33 E	21*	19*
2 15	0 0.62	− 4 34.7	2.139	1.408	22.0	21.3	32 E	21*	19*
2 20	0 16.61	− 3 7.9	2.178	1.432	21.2	21.3	32 E	20*	18*
2 25	0 32.24	− 1 42.2	2.219	1.459	20.3	21.4	31 E	20*	17*
3 2	0 47.53	− 0 18.2	2.261	1.486	19.4	21.4	30 E	19*	17*
3 7	1 2.50	+ 1 3.8	2.305	1.514	18.5	21.5	29 E	18*	16*
264341 1999 XF_{17}									
12 27	21 1.38	− 0 29.2	2.431	1.863	21.7	20.0	45 E	35*	18*
1 6	21 23.64	+ 1 9.8	2.463	1.834	20.5	20.0	41 E	33*	13*
1 16	21 46.64	+ 3 0.0	2.491	1.806	19.2	19.9	37 E	31*	8*
1 26	22 10.31	+ 5 0.3	2.513	1.780	17.9	19.9	34 E	28*	4*
2 5	22 34.65	+ 7 8.8	2.532	1.756	16.6	19.8	31 E	24*	1*
2 15	22 59.64	+ 9 23.6	2.549	1.734	15.3	19.8	28 E	21*	—
2 25	23 25.28	+11 42.5	2.563	1.715	14.0	19.7	25 E	18*	—
3 7	23 51.58	+14 2.5	2.576	1.697	12.7	19.7	22 E	15*	—
3 17	0 18.58	+16 20.9	2.588	1.683	11.4	19.6	19 E	12*	—
3 27	0 46.27	+18 34.3	2.600	1.672	10.1	19.5	17 E	9*	—
4 6	1 14.63	+20 39.5	2.611	1.663	8.8	19.5	15 E	7*	—
4 16	1 43.65	+22 33.5	2.622	1.658	7.6	19.4	13 E	4*	—
4 26	2 13.25	+24 13.1	2.633	1.656	6.5	19.4	11 W	2*	—
5 6	2 43.30	+25 35.7	2.644	1.657	5.7	19.4	9 W	2*	—
5 16	3 13.66	+26 39.2	2.654	1.661	5.2	19.4	9 W	2*	—
5 26	3 44.12	+27 21.8	2.662	1.668	5.3	19.4	9 W	3*	—
6 5	4 14.46	+27 42.6	2.669	1.679	6.0	19.4	10 W	3*	—
6 15	4 44.44	+27 41.3	2.673	1.692	7.1	19.5	12 W	4*	2*
6 25	5 13.82	+27 18.3	2.674	1.708	8.4	19.6	14 W	6*	4*
7 5	5 42.40	+26 34.3	2.672	1.727	10.0	19.7	17 W	7*	7*
7 15	6 10.00	+25 30.8	2.665	1.748	11.6	19.8	20 W	10*	9*
7 25	6 36.48	+24 9.4	2.654	1.771	13.3	19.8	24 W	13*	12*
8 4	7 1.76	+22 31.9	2.637	1.797	15.0	19.9	27 W	16*	15*
8 14	7 25.78	+20 40.1	2.614	1.824	16.7	20.0	31 W	20*	17*
8 24	7 48.50	+18 36.0	2.584	1.852	18.3	20.0	35 W	24*	20*
9 3	8 9.93	+16 21.1	2.548	1.883	19.9	20.1	39 W	28*	23*
9 13	8 30.04	+13 57.3	2.506	1.914	21.4	20.1	44 W	32*	26*
9 23	8 48.84	+11 25.9	2.456	1.946	22.8	20.2	49 W	35*	29*
10 3	9 6.31	+ 8 48.3	2.400	1.979	24.0	20.2	54 W	39*	33*
10 13	9 22.40	+ 6 5.9	2.337	2.013	25.1	20.2	59 W	41*	37*
10 23	9 37.05	+ 3 19.8	2.268	2.047	26.0	20.2	65 W	43*	42*
11 2	9 50.16	+ 0 31.1	2.193	2.082	26.7	20.2	70 W	44*	47*
11 12	10 1.58	− 2 18.8	2.114	2.116	27.1	20.2	77 W	43*	53*
11 22	10 11.11	− 5 8.4	2.032	2.151	27.1	20.1	83 W	40	60*
12 2	10 18.52	− 7 56.0	1.948	2.186	26.8	20.1	90 W	37	67*
12 12	10 23.50	−10 39.0	1.864	2.221	26.1	20.0	98 W	34	74*
12 22	10 25.75	−13 14.1	1.784	2.255	24.9	19.9	105 W	32	77
12 27	10 25.76	−14 27.3	1.746	2.273	24.1	19.8	110 W	31	78
1 1	10 24.99	−15 36.7	1.710	2.290	23.2	19.8	114 W	29	80
1 6	10 23.41	−16 41.4	1.677	2.307	22.1	19.7	118 W	28	81
1 11	10 21.03	−17 40.6	1.646	2.324	21.0	19.6	122 W	27	82
1 16	10 17.88	−18 33.3	1.619	2.340	19.8	19.6	126 W	26	83
1 21	10 14.00	−19 18.6	1.596	2.357	18.5	19.5	130 W	26	83