195208 2002 DZ_3

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	13 50.61	+15 7.3	2.331	2.243	24.7	19.8	73 W	59*	29*
1 2	14 5.40	+15 7.7	2.258	2.278	25.0	19.8	79 W	60*	34*
1 12	14 18.58	+15 25.1	2.181	2.313	25.1	19.8	85 W	60	39*
1 22	14 29.90	+15 59.9	2.102	2.347	24.8	19.7	92 W	61	43*
2 1	14 39.04	+16 52.2	2.024	2.381	24.2	19.6	99 W	62	46*
2 11	14 45.68	+18 0.6	1.949	2.414	23.1	19.6	106 W	63	46*
2 21	14 49.49	+19 22.5	1.879	2.446	21.8	19.5	113 W	64	45
2 26	14 50.23	+20 7.3	1.847	2.462	20.9	19.4	117 W	65	44
3 2	14 50.16	+20 53.6	1.818	2.478	20.0	19.4	121 W	66	43
3 7	14 49.25	+21 40.4	1.791	2.494	19.1	19.3	125 W	67	42
3 12	14 47.51	+22 26.6	1.769	2.509	18.1	19.3	128 W	67	42
3 17	14 44.96	+23 11.3	1.750	2.525	17.1	19.2	132 W	68	41
3 22	14 41.61	+23 53.0	1.736	2.540	16.1	19.2	135 W	69	40
3 27	14 37.54	+24 30.4	1.727	2.555	15.2	19.2	138 W	70	39
4 1	14 32.83	+25 2.2	1.722	2.570	14.5	19.1	140 W	70	39
4 6	14 27.61	+25 27.2	1.723	2.584	13.9	19.1	142 W	70	39
4 11	14 22.01	+25 44.5	1.730	2.599	13.5	19.1	143 W	71	38
4 16	14 16.17	+25 53.4	1.742	2.613	13.4	19.2	143 W	71	38
4 21	14 10.25	+25 53.4	1.760	2.627	13.6	19.2	142 W	71	38
4 26	14 4.41	+25 44.4	1.784	2.641	14.0	19.3	141 E	71	38
5 1	13 58.82	+25 26.5	1.813	2.654	14.5	19.3	139 E	70	39
5 6	13 53.58	+25 0.2	1.848	2.668	15.2	19.4	136 E	70	39
5 11	13 48.83	+24 26.3	1.888	2.681	16.0	19.5	133 E	69	40
5 16	13 44.62	+23 45.4	1.932	2.694	16.8	19.6	130 E	69	40
5 21	13 41.01	+22 58.6	1.981	2.706	17.5	19.7	126 E	68	41
5 26	13 38.05	+22 6.5	2.034	2.719	18.3	19.8	123 E	67	42
5 31	13 35.76	+21 10.2	2.091	2.731	18.9	19.8	119 E	66	43
6 5	13 34.12	+20 10.4	2.151	2.743	19.5	19.9	115 E	65	44
6 10	13 33.11	+19 8.0	2.213	2.755	20.0	20.0	112 E	64*	45
6 20	13 32.90	+16 57.5	2.346	2.778	20.8	20.2	104 E	60*	47
6 30	13 34.88	+14 42.7	2.486	2.800	21.1	20.3	97 E	55*	49
7 10	13 38.78	+12 26.8	2.631	2.822	21.1	20.5	90 E	49*	52
7 20	13 44.30	+10 11.7	2.777	2.842	20.8	20.6	83 E	44*	54*
7 30	13 51.23	+ 7 58.8	2.922	2.861	20.2	20.7	77 E	39*	55*
8 9	13 59.35	+ 5 49.1	3.065	2.880	19.3	20.8	70 E	35*	54*
8 19	14 8.49	+ 3 43.3	3.204	2.898	18.2	20.9	64 E	31*	51*
8 29	14 18.51	+ 1 41.7	3.335	2.914	16.9	20.9	57 E	28*	46*
9 8	14 29.29	− 0 15.0	3.459	2.930	15.5	21.0	51 E	25*	41*
9 18	14 40.73	− 2 6.8	3.573	2.945	13.9	21.0	45 E	22*	35*
9 28	14 52.76	− 3 53.2	3.675	2.958	12.2	21.0	39 E	19*	29*
10 8	15 5.30	− 5 33.9	3.766	2.971	10.4	21.0	32 E	16*	23*
10 18	15 18.27	− 7 8.8	3.842	2.983	8.5	21.0	26 E	14*	17*
10 28	15 31.62	− 8 37.5	3.904	2.994	6.7	20.9	21 E	11*	10*
11 7	15 45.27	− 9 59.8	3.950	3.004	4.9	20.9	15 E	8*	3*
11 17	15 59.18	−11 15.6	3.980	3.013	3.4	20.8	10 E	4*	—
11 27	16 13.25	−12 24.8	3.993	3.021	2.8	20.8	9 E	1*	—
12 7	16 27.42	−13 27.2	3.988	3.028	3.6	20.9	11 W	5*	—
12 17	16 41.62	−14 23.0	3.967	3.035	5.2	20.9	16 W	10*	2*
12 27	16 55.74	−15 12.3	3.927	3.040	7.0	21.0	22 W	13*	9*
1 6	17 9.68	−15 55.3	3.871	3.044	8.9	21.1	29 W	16*	16*
1 16	17 23.36	−16 32.5	3.798	3.047	10.7	21.1	35 W	19*	24*

363505 2003 UC_{20}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	13 50.70	−16 46.0	0.568	0.846	85.8	19.5	59 W	27*	46*
12 28	14 23.58	−19 0.3	0.579	0.816	88.0	19.6	56 W	25*	44*
1 2	14 57.60	−20 53.8	0.596	0.784	89.8	19.6	53 W	22*	42*
1 7	15 32.32	−22 22.3	0.621	0.750	91.1	19.7	50 W	20*	40*
1 12	16 7.28	−23 23.7	0.654	0.716	91.6	19.7	47 W	18*	38*
1 17	16 42.06	−23 57.7	0.695	0.681	91.2	19.7	44 W	16*	36*
1 22	17 16.37	−24 5.5	0.744	0.647	89.8	19.7	41 W	14*	33*
1 27	17 50.07	−23 48.9	0.801	0.614	87.1	19.6	38 W	13*	31*
2 1	18 23.12	−23 10.1	0.865	0.583	83.3	19.5	36 W	11*	29*
2 6	18 55.58	−22 11.1	0.936	0.556	78.2	19.4	34 W	10*	27*
2 11	19 27.53	−20 53.6	1.011	0.536	71.9	19.3	31 W	9*	24*
2 16	19 58.98	−19 19.0	1.090	0.523	64.8	19.2	29 W	8*	22*
2 21	20 29.83	−17 29.2	1.169	0.518	57.1	19.1	26 W	6*	20*
2 26	20 59.92	−15 26.6	1.247	0.523	49.4	19.0	24 W	5*	17*
3 2	21 29.03	−13 14.2	1.321	0.536	42.1	19.0	21 W	4*	15*
3 7	21 57.00	−10 55.4	1.391	0.557	35.6	19.0	19 W	3*	13*
3 12	22 23.73	− 8 33.4	1.456	0.584	30.0	19.0	17 W	2*	11*
3 17	22 49.23	− 6 11.2	1.516	0.615	25.3	19.1	15 W	1*	9*
3 22	23 13.55	− 3 50.8	1.571	0.648	21.5	19.2	14 W	—	8*
3 27	23 36.79	− 1 34.0	1.622	0.683	18.4	19.3	12 W	—	6*
4 1	23 59.06	+ 0 38.1	1.669	0.717	16.0	19.4	11 W	—	5*
4 11	0 41.18	+ 4 44.9	1.752	0.785	12.8	19.5	10 W	—	4*
4 21	1 20.85	+ 8 26.2	1.823	0.847	11.0	19.7	9 W	—	3*
5 1	1 58.83	+11 40.9	1.882	0.902	10.2	19.9	9 W	—	3*
5 11	2 35.69	+14 28.6	1.930	0.948	10.0	20.1	9 W	—	3*
5 21	3 11.93	+16 49.2	1.966	0.985	10.3	20.2	10 W	—	4*
5 31	3 47.90	+18 42.5	1.991	1.013	10.9	20.3	11 W	—	5*

363505 2003 UC_{20} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
6 10	4 23.86	+20 8.1	2.005	1.033	11.7	20.4	12 W	—	6*
6 20	5 0.04	+21 5.6	2.008	1.043	12.6	20.5	13 W	—	6*
6 30	5 36.57	+21 33.9	2.001	1.044	13.6	20.5	14 W	1*	7*
7 10	6 13.58	+21 32.0	1.985	1.035	14.6	20.5	15 W	3*	7*
7 20	6 51.20	+20 58.6	1.959	1.018	15.6	20.5	16 W	4*	8*
7 30	7 29.54	+19 52.1	1.926	0.992	16.5	20.4	16 W	6*	8*
8 9	8 8.75	+18 11.0	1.886	0.956	17.3	20.3	16 W	7*	7*
8 19	8 49.07	+15 53.6	1.841	0.912	17.8	20.2	16 W	7*	7*
8 29	9 30.80	+12 58.5	1.793	0.859	17.8	20.0	15 W	7*	5*
9 8	10 14.39	+ 9 24.9	1.742	0.798	17.1	19.7	13 W	6*	4*
9 18	11 0.49	+ 5 13.4	1.692	0.731	15.2	19.4	11 W	4*	2*
9 23	11 24.72	+ 2 54.3	1.667	0.697	13.6	19.2	9 W	2*	1*
9 28	11 49.90	+ 0 27.5	1.642	0.662	11.5	19.0	8 W	1*	—
10 3	12 16.15	− 2 5.9	1.617	0.628	8.7	18.7	5 W	—	—
10 8	12 43.61	− 4 43.8	1.592	0.596	5.0	18.4	3 W	—	—
10 13	13 12.40	− 7 23.8	1.565	0.568	0.7	18.0	0 W	—	—
10 18	13 42.57	−10 2.5	1.537	0.544	4.9	18.1	3 E	—	—
10 23	14 14.12	−12 35.7	1.507	0.527	11.1	18.3	6 E	—	—
10 28	14 46.95	−14 58.6	1.475	0.519	17.8	18.4	9 E	—	3*
11 2	15 20.85	−17 6.3	1.441	0.520	24.6	18.6	13 E	1*	6*
11 7	15 55.54	−18 54.5	1.406	0.529	31.2	18.8	16 E	3*	9*
11 12	16 30.68	−20 19.8	1.371	0.547	37.0	19.0	19 E	5*	12*
11 17	17 5.92	−21 19.9	1.339	0.572	41.8	19.2	23 E	7*	15*
11 22	17 40.91	−21 53.8	1.310	0.601	45.6	19.3	26 E	9*	18*
11 27	18 15.33	−22 2.0	1.286	0.633	48.4	19.5	29 E	11*	20*
12 2	18 48.90	−21 45.5	1.268	0.667	50.3	19.6	31 E	13*	22*
12 7	19 21.35	−21 6.7	1.255	0.702	51.5	19.7	34 E	15*	24*
12 12	19 52.52	−20 8.2	1.248	0.737	52.1	19.8	36 E	17*	26*
12 17	20 22.28	−18 53.1	1.246	0.770	52.2	19.9	38 E	19*	27*
12 22	20 50.57	−17 24.6	1.249	0.803	51.9	20.0	40 E	21*	27*
12 27	21 17.38	−15 45.9	1.257	0.834	51.4	20.1	41 E	23*	28*
1 1	21 42.76	−13 59.8	1.268	0.863	50.7	20.2	43 E	25*	28*
1 6	22 6.79	−12 8.8	1.283	0.890	49.9	20.2	44 E	27*	28*
1 11	22 29.60	−10 14.9	1.300	0.915	49.0	20.3	45 E	28*	28*
1 16	22 51.30	− 8 19.7	1.320	0.938	48.1	20.4	45 E	29*	28*

87311 2000 QJ_1

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	13 51.78	−20 7.2	0.687	0.849	78.9	18.0	58 W	24*	46*
12 28	14 23.80	−21 29.1	0.717	0.824	79.0	18.0	55 W	22*	45*
1 2	14 54.85	−22 27.4	0.753	0.803	78.3	18.0	53 W	21*	43*
1 7	15 24.76	−23 4.5	0.794	0.788	76.8	18.1	51 W	20*	42*
1 12	15 53.45	−23 23.0	0.839	0.779	74.8	18.1	50 W	19*	41*
1 17	16 20.91	−23 25.6	0.885	0.776	72.3	18.1	49 W	18*	40*
1 22	16 47.11	−23 14.8	0.934	0.779	69.5	18.1	48 W	18*	39*
1 27	17 12.08	−22 52.4	0.982	0.788	66.5	18.2	47 W	17*	39*
2 1	17 35.80	−22 20.5	1.030	0.803	63.6	18.2	47 W	17*	39*
2 6	17 58.31	−21 40.4	1.077	0.824	60.7	18.3	47 W	17*	39*
2 11	18 19.63	−20 53.8	1.123	0.849	58.1	18.4	47 W	17*	39*
2 16	18 39.79	−20 1.6	1.165	0.878	55.7	18.5	47 W	17*	40*
2 21	18 58.83	−19 5.2	1.206	0.910	53.5	18.6	48 W	17*	40*
2 26	19 16.79	−18 5.3	1.243	0.944	51.7	18.7	48 W	17*	41*
3 2	19 33.72	−17 2.9	1.276	0.981	50.0	18.7	49 W	17*	42*
3 7	19 49.66	−15 58.7	1.307	1.019	48.6	18.8	50 W	18*	43*
3 12	20 4.68	−14 53.3	1.333	1.059	47.4	18.9	52 W	18*	45*
3 22	20 32.14	−12 41.1	1.376	1.139	45.5	19.1	55 W	19*	48*
4 1	20 56.46	−10 29.8	1.405	1.221	44.1	19.3	58 W	20*	51*
4 11	21 17.92	− 8 22.0	1.419	1.301	43.0	19.4	62 W	22*	54*
4 21	21 36.72	− 6 20.0	1.419	1.380	42.1	19.5	67 W	24*	58*
5 1	21 52.96	− 4 25.5	1.405	1.457	41.2	19.6	72 W	26*	62*
5 11	22 6.62	− 2 40.5	1.380	1.530	40.2	19.6	78 W	29*	64*
5 21	22 17.62	− 1 6.8	1.345	1.601	39.0	19.6	84 W	33*	65*
5 31	22 25.74	+ 0 12.9	1.301	1.669	37.4	19.6	91 W	37*	64
6 10	22 30.68	+ 1 15.7	1.250	1.734	35.3	19.5	99 W	41*	63
6 20	22 32.11	+ 1 58.2	1.197	1.795	32.5	19.4	108 W	45*	62
6 30	22 29.63	+ 2 15.7	1.146	1.854	29.0	19.3	118 W	47*	62
7 10	22 23.06	+ 2 4.0	1.101	1.909	24.6	19.2	129 W	47	62
7 20	22 12.53	+ 1 20.1	1.068	1.961	19.3	19.0	140 W	46	63
7 30	21 58.73	+ 0 4.0	1.053	2.010	13.4	18.8	153 W	45	64
8 4	21 51.04	− 0 44.5	1.054	2.033	10.4	18.7	159 W	44	65
8 9	21 43.10	− 1 38.2	1.061	2.056	7.7	18.6	164 W	43	66
8 14	21 35.16	− 2 35.8	1.075	2.077	5.7	18.6	168 W	42	67
8 19	21 27.46	− 3 35.4	1.097	2.099	5.4	18.7	169 E	41	68
8 24	21 20.22	− 4 35.4	1.125	2.119	6.8	18.8	166 E	40	69
8 29	21 13.65	− 5 34.0	1.160	2.138	9.0	19.0	161 E	39	70
9 3	21 7.88	− 6 30.0	1.201	2.157	11.4	19.2	155 E	38	71
9 8	21 3.01	− 7 22.4	1.248	2.175	13.7	19.4	149 E	38	71
9 18	20 56.13	− 8 53.7	1.358	2.210	17.7	19.7	138 E	36	73
9 28	20 53.08	−10 5.0	1.485	2.241	20.8	20.0	127 E	35	74
10 8	20 53.51	−10 56.3	1.626	2.269	23.0	20.3	118 E	34	75

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
87311 2000 QJ_1 *(continuation)*									
10 18	20 56.95	−11 29.1	1.775	2.295	24.3	20.6	109 E	34	75
10 28	21 2.90	−11 45.0	1.930	2.318	25.0	20.8	100 E	33	76*
11 7	21 10.90	−11 45.8	2.086	2.338	25.1	21.0	92 E	33	73*
11 17	21 20.55	−11 33.0	2.242	2.356	24.7	21.2	84 E	33	67*
11 27	21 31.52	−11 8.1	2.394	2.371	23.9	21.3	77 E	34	59*
12 7	21 43.54	−10 32.4	2.540	2.383	22.8	21.4	70 E	34*	52*
12 17	21 56.39	− 9 46.9	2.679	2.392	21.4	21.5	63 E	34*	44*
357956 2006 AN_{11}									
12 23	13 51.86	−12 42.6	2.109	1.829	27.8	20.9	60 W	31*	44*
1 2	14 7.98	−15 57.9	2.037	1.859	28.8	20.9	66 W	29*	52*
1 12	14 23.09	−19 10.3	1.961	1.891	29.5	20.8	71 W	26	60*
1 22	14 36.98	−22 20.7	1.882	1.923	30.0	20.8	77 W	23	68*
2 1	14 49.34	−25 30.1	1.799	1.956	30.0	20.7	84 W	19	77*
2 11	14 59.76	−28 39.3	1.716	1.990	29.7	20.7	91 W	16	85*
2 21	15 7.76	−31 48.9	1.634	2.024	28.9	20.6	98 W	13	84
3 2	15 12.69	−34 58.4	1.556	2.058	27.6	20.5	106 W	10	81
3 7	15 13.78	−36 32.4	1.519	2.075	26.8	20.4	110 W	8	79
3 12	15 13.83	−38 5.3	1.485	2.092	25.8	20.3	114 W	7	78
3 17	15 12.76	−39 36.4	1.453	2.109	24.7	20.3	118 W	5	76
3 22	15 10.48	−41 4.5	1.424	2.126	23.4	20.2	122 W	4	75
3 27	15 6.92	−42 28.4	1.398	2.143	22.1	20.1	126 W	3	74
4 1	15 2.07	−43 46.5	1.377	2.160	20.7	20.1	130 W	1	72
4 6	14 55.97	−44 57.3	1.359	2.177	19.3	20.0	134 W	—	71
4 11	14 48.72	−45 59.2	1.347	2.194	17.9	20.0	138 W	—	70
4 16	14 40.47	−46 50.5	1.340	2.211	16.6	19.9	141 W	—	69
4 21	14 31.46	−47 29.9	1.337	2.228	15.5	19.9	144 W	—	68
4 26	14 22.01	−47 56.7	1.341	2.244	14.7	19.9	146 W	—	68
5 1	14 12.48	−48 10.7	1.350	2.261	14.2	19.9	147 E	—	68
5 6	14 3.23	−48 12.5	1.365	2.277	14.1	20.0	147 E	—	68
5 11	13 54.57	−48 3.4	1.386	2.293	14.3	20.0	146 E	—	68
5 16	13 46.77	−47 45.0	1.412	2.309	14.8	20.1	144 E	—	68
5 21	13 40.03	−47 19.2	1.443	2.325	15.6	20.2	142 E	—	69
5 26	13 34.48	−46 47.9	1.479	2.341	16.4	20.3	139 E	—	69
5 31	13 30.18	−46 13.3	1.520	2.357	17.4	20.4	136 E	—	70
6 5	13 27.13	−45 37.2	1.565	2.372	18.4	20.5	133 E	—	70
6 10	13 25.26	−45 0.9	1.614	2.388	19.3	20.6	129 E	—	71
6 15	13 24.53	−44 25.7	1.667	2.403	20.1	20.7	125 E	—	72
6 20	13 24.85	−43 52.5	1.722	2.418	20.9	20.8	122 E	—	72
6 25	13 26.14	−43 21.9	1.781	2.433	21.6	20.9	118 E	—	73
6 30	13 28.32	−42 54.4	1.841	2.448	22.2	21.0	115 E	—	73
7 5	13 31.31	−42 30.4	1.904	2.462	22.6	21.1	111 E	—	73
7 10	13 35.01	−42 9.7	1.969	2.477	23.0	21.2	108 E	—	74
7 15	13 39.37	−41 52.5	2.035	2.491	23.3	21.3	104 E	—	74
7 20	13 44.32	−41 38.5	2.102	2.505	23.5	21.4	101 E	—	74*
7 25	13 49.83	−41 27.8	2.170	2.518	23.6	21.5	98 E	—	74*
3691 Bede									
12 23	13 52.51	−12 55.3	1.584	1.382	38.0	17.9	60 W	31*	44*
12 28	14 6.83	−15 18.4	1.543	1.368	38.9	17.9	61 W	29*	47*
1 2	14 21.61	−17 42.5	1.504	1.354	39.8	17.8	62 W	27*	49*
1 7	14 36.92	−20 6.7	1.466	1.341	40.7	17.8	63 W	25*	52*
1 12	14 52.83	−22 30.3	1.431	1.329	41.5	17.7	64 W	22*	54*
1 17	15 9.38	−24 52.2	1.398	1.318	42.3	17.7	64 W	20*	56*
1 22	15 26.65	−27 11.4	1.367	1.308	43.1	17.6	65 W	18*	58*
1 27	15 44.67	−29 26.5	1.338	1.299	43.8	17.6	66 W	15*	60*
2 1	16 3.47	−31 35.9	1.312	1.292	44.5	17.6	67 W	13*	61*
2 6	16 23.10	−33 38.3	1.287	1.285	45.1	17.5	67 W	11*	61*
2 11	16 43.54	−35 32.0	1.265	1.279	45.6	17.5	68 W	9*	62*
2 16	17 4.77	−37 15.4	1.245	1.275	46.1	17.5	69 W	7*	62*
2 21	17 26.71	−38 47.2	1.228	1.272	46.6	17.4	69 W	5*	62*
2 26	17 49.24	−40 6.0	1.212	1.271	46.9	17.4	70 W	3*	61*
3 2	18 12.21	−41 10.8	1.198	1.270	47.2	17.4	70 W	2*	61*
3 7	18 35.43	−42 1.0	1.185	1.271	47.5	17.4	71 W	—	60*
3 12	18 58.67	−42 36.4	1.174	1.273	47.7	17.4	71 W	—	60*
3 17	19 21.73	−42 57.3	1.164	1.277	47.8	17.4	72 W	—	60*
3 22	19 44.37	−43 4.3	1.155	1.282	47.9	17.4	73 W	—	60*
3 27	20 6.37	−42 58.6	1.147	1.288	48.0	17.4	73 W	—	60*
4 1	20 27.56	−42 41.3	1.139	1.295	48.0	17.3	74 W	—	60*
4 6	20 47.82	−42 14.0	1.131	1.303	47.9	17.3	75 W	—	60*
4 11	21 7.04	−41 38.2	1.123	1.313	47.8	17.3	76 W	—	61*
4 16	21 25.19	−40 55.5	1.114	1.323	47.7	17.3	77 W	—	62*
4 21	21 42.22	−40 7.6	1.105	1.334	47.5	17.3	78 W	—	63*
5 1	22 12.91	−38 21.7	1.085	1.360	47.0	17.3	81 W	—	66*
5 11	22 39.22	−36 30.0	1.061	1.389	46.3	17.3	84 W	—	70*
5 21	23 1.36	−34 40.7	1.032	1.420	45.4	17.3	88 W	—	75*
5 31	23 19.37	−32 59.9	0.998	1.454	44.2	17.2	93 W	2*	80*
6 10	23 33.22	−31 31.5	0.960	1.489	42.5	17.1	98 W	5*	84*
6 20	23 42.68	−30 18.5	0.918	1.526	40.2	17.0	104 W	9*	86
6 30	23 47.26	−29 21.9	0.874	1.564	37.3	16.9	111 W	13*	87

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3691 Bede *(continuation)*									
7 5	23 47.54	−28 59.4	0.853	1.583	35.5	16.8	115 W	14*	87
7 10	23 46.40	−28 40.1	0.832	1.602	33.4	16.7	120 W	16*	87
7 15	23 43.76	−28 23.3	0.812	1.621	31.1	16.6	124 W	16*	88
7 20	23 39.55	−28 8.1	0.794	1.640	28.6	16.5	129 W	17	88
7 25	23 33.78	−27 53.0	0.779	1.659	25.8	16.4	135 W	17	88
7 30	23 26.51	−27 36.3	0.766	1.678	22.7	16.3	140 W	17	88
8 4	23 17.88	−27 16.3	0.758	1.697	19.5	16.2	146 W	18	89
8 9	23 8.11	−26 51.2	0.754	1.716	16.2	16.1	152 W	18	89
8 14	22 57.52	−26 19.7	0.755	1.735	13.0	16.0	157 W	19	90
8 19	22 46.48	−25 40.9	0.762	1.753	10.2	16.0	162 W	19	90
8 24	22 35.42	−24 54.6	0.776	1.772	8.4	16.0	165 W	20	89
8 29	22 24.78	−24 1.1	0.795	1.790	8.2	16.0	165 E	21	88
9 3	22 14.93	−23 1.8	0.820	1.808	9.6	16.2	163 E	22	87
9 8	22 6.12	−21 58.1	0.852	1.826	11.9	16.4	158 E	23	86
9 13	21 58.55	−20 51.7	0.890	1.844	14.3	16.6	153 E	24	85
9 18	21 52.32	−19 44.1	0.933	1.861	16.8	16.8	148 E	25	84
9 23	21 47.45	−18 36.2	0.981	1.878	19.0	17.0	142 E	26	83
9 28	21 43.91	−17 29.1	1.033	1.895	21.0	17.2	137 E	28	81
10 8	21 40.50	−15 18.8	1.150	1.928	24.3	17.6	127 E	30	79
10 18	21 41.28	−13 15.0	1.279	1.959	26.6	17.9	118 E	32	77
10 28	21 45.46	−11 16.5	1.417	1.990	28.0	18.2	110 E	34	75
11 7	21 52.30	− 9 21.8	1.561	2.018	28.7	18.5	102 E	36	73
11 17	22 1.23	− 7 29.1	1.708	2.046	28.8	18.7	95 E	38	70*
11 27	22 11.78	− 5 36.8	1.858	2.072	28.4	18.9	88 E	39	63*
12 7	22 23.59	− 3 43.8	2.006	2.097	27.7	19.1	81 E	41	56*
12 17	22 36.40	− 1 49.3	2.152	2.120	26.6	19.2	75 E	43	48*
12 27	22 50.02	+ 0 7.2	2.293	2.141	25.3	19.3	69 E	45*	41*
1 6	23 4.27	+ 2 5.8	2.429	2.162	23.8	19.4	63 E	45*	34*
1 16	23 19.05	+ 4 6.5	2.558	2.180	22.2	19.5	57 E	44*	28*
6909 Levison									
12 23	13 52.63	−47 11.5	4.441	3.952	11.7	20.7	55 W	—	47*
1 2	14 2.91	−48 58.1	4.333	3.943	12.5	20.7	61 W	—	52*
1 12	14 12.30	−50 46.3	4.216	3.934	13.3	20.7	67 W	—	57*
1 22	14 20.52	−52 35.8	4.092	3.923	13.9	20.6	73 W	—	60*
2 1	14 27.22	−54 25.6	3.963	3.911	14.4	20.6	80 W	—	61*
2 11	14 31.98	−56 14.5	3.831	3.899	14.6	20.5	87 W	—	60
2 16	14 33.50	−57 8.1	3.765	3.892	14.7	20.5	90 W	—	59
2 21	14 34.35	−58 0.8	3.700	3.886	14.7	20.4	93 W	—	58
2 26	14 34.46	−58 52.2	3.636	3.879	14.7	20.4	97 W	—	57
3 2	14 33.77	−59 41.8	3.572	3.871	14.6	20.3	100 W	—	56
3 7	14 32.22	−60 29.2	3.511	3.864	14.5	20.3	103 W	—	56
3 12	14 29.77	−61 13.7	3.451	3.856	14.3	20.2	107 W	—	55
3 17	14 26.36	−61 54.7	3.394	3.848	14.1	20.2	110 W	—	54
3 22	14 21.99	−62 31.5	3.339	3.840	13.8	20.1	113 W	—	53
3 27	14 16.66	−63 3.2	3.287	3.832	13.5	20.1	116 W	—	53
4 1	14 10.44	−63 29.0	3.239	3.823	13.2	20.0	119 W	—	53
4 6	14 3.44	−63 48.3	3.195	3.815	12.9	20.0	122 W	—	52
4 11	13 55.79	−64 0.3	3.155	3.806	12.6	19.9	124 W	—	52
4 16	13 47.68	−64 4.5	3.119	3.796	12.3	19.9	126 W	—	52
4 21	13 39.33	−64 0.5	3.087	3.787	12.1	19.9	128 E	—	52
4 26	13 30.99	−63 48.2	3.061	3.777	11.9	19.8	129 E	—	52
5 1	13 22.91	−63 27.9	3.039	3.767	11.8	19.8	130 E	—	53
5 6	13 15.30	−62 59.9	3.023	3.757	11.8	19.8	131 E	—	53
5 11	13 8.36	−62 25.1	3.011	3.747	11.8	19.8	131 E	—	54
5 16	13 2.22	−61 44.1	3.005	3.736	12.0	19.8	130 E	—	54
5 21	12 56.98	−60 58.0	3.003	3.725	12.2	19.8	129 E	—	55
5 26	12 52.71	−60 7.9	3.007	3.714	12.5	19.8	128 E	—	56
5 31	12 49.42	−59 14.8	3.015	3.703	12.8	19.8	126 E	—	57
6 5	12 47.10	−58 19.8	3.028	3.692	13.2	19.8	124 E	—	58
6 10	12 45.72	−57 23.9	3.045	3.680	13.6	19.8	122 E	—	59
6 15	12 45.23	−56 27.9	3.066	3.668	14.0	19.9	119 E	—	60
6 20	12 45.56	−55 32.5	3.092	3.656	14.4	19.9	116 E	—	60
6 25	12 46.68	−54 38.6	3.120	3.643	14.9	19.9	113 E	—	61
6 30	12 48.52	−53 46.6	3.151	3.631	15.2	19.9	110 E	—	62
7 5	12 51.01	−52 57.1	3.186	3.618	15.6	20.0	107 E	—	63
7 10	12 54.10	−52 10.2	3.222	3.605	15.9	20.0	104 E	—	64*
7 15	12 57.75	−51 26.3	3.261	3.591	16.1	20.0	101 E	—	64*
7 20	13 1.90	−50 45.6	3.301	3.578	16.4	20.0	97 E	—	64*
7 25	13 6.53	−50 8.1	3.343	3.564	16.5	20.1	94 E	—	63*
7 30	13 11.58	−49 34.0	3.385	3.550	16.6	20.1	91 E	—	62*
8 9	13 22.84	−48 35.5	3.471	3.521	16.7	20.1	84 E	—	59*
8 19	13 35.47	−47 49.3	3.558	3.491	16.5	20.2	78 E	—	55*
8 29	13 49.30	−47 14.7	3.642	3.460	16.1	20.2	72 E	—	51*
9 8	14 4.18	−46 50.0	3.721	3.429	15.5	20.2	66 E	—	46*
9 18	14 20.03	−46 33.9	3.794	3.396	14.8	20.2	60 E	—	41*
9 28	14 36.76	−46 24.6	3.858	3.362	13.9	20.2	54 E	—	37*
10 8	14 54.28	−46 20.6	3.913	3.328	12.9	20.1	48 E	—	32*
10 18	15 12.54	−46 20.1	3.957	3.292	11.8	20.1	43 E	—	28*
10 28	15 31.48	−46 21.7	3.988	3.256	10.7	20.0	37 E	—	23*

6909 Levison *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
11 7	15 51.01	−46 23.8	4.007	3.218	9.6	20.0	33 E	—	19*
11 17	16 11.09	−46 25.0	4.011	3.180	8.6	19.9	29 E	—	14*
11 27	16 31.60	−46 24.1	4.001	3.141	7.8	19.9	26 E	—	10*
12 7	16 52.45	−46 19.9	3.976	3.100	7.4	19.8	24 W	—	7*
12 17	17 13.54	−46 11.5	3.937	3.059	7.3	19.7	23 W	—	10*
12 27	17 34.75	−45 58.1	3.882	3.017	7.8	19.7	25 W	—	14*
1 6	17 55.94	−45 39.2	3.812	2.973	8.7	19.7	27 W	—	17*
1 16	18 17.00	−45 14.4	3.728	2.929	10.0	19.6	31 W	—	22*

307543 2003 EO_4

12 23	13 53.07	− 1 43.4	2.024	1.823	29.0	19.9	64 W	42*	38*
1 2	14 7.66	− 4 25.4	1.962	1.865	29.6	19.9	70 W	40*	46*
1 12	14 20.60	− 7 0.3	1.893	1.908	30.0	19.9	76 W	38	55*
1 22	14 31.68	− 9 29.2	1.819	1.953	30.0	19.9	83 W	36	63*
2 1	14 40.54	−11 52.9	1.741	1.998	29.5	19.8	90 W	33	72*
2 11	14 46.78	−14 12.6	1.661	2.045	28.6	19.7	98 W	31	78*
2 21	14 49.95	−16 29.0	1.583	2.091	27.0	19.6	107 W	29	80
3 2	14 49.54	−18 41.6	1.509	2.138	24.6	19.5	116 W	26	83
3 12	14 45.17	−20 48.5	1.446	2.185	21.5	19.3	126 W	24	85
3 22	14 36.70	−22 45.6	1.397	2.233	17.7	19.2	137 W	22	87
3 27	14 30.99	−23 38.5	1.379	2.256	15.5	19.1	143 W	21	88
4 1	14 24.43	−24 26.5	1.368	2.280	13.3	19.0	148 W	21	88
4 6	14 17.17	−25 8.7	1.362	2.303	11.1	19.0	154 W	20	89
4 11	14 9.40	−25 44.6	1.364	2.326	9.0	18.9	159 W	19	90
4 16	14 1.34	−26 13.8	1.372	2.350	7.2	18.9	163 W	19	90
4 21	13 53.22	−26 36.2	1.387	2.373	6.2	18.9	165 E	18	89
4 26	13 45.29	−26 52.0	1.410	2.396	6.2	18.9	165 E	18	89
5 1	13 37.77	−27 2.1	1.439	2.419	7.3	19.0	162 E	18	89
5 6	13 30.85	−27 7.3	1.476	2.442	8.8	19.2	158 E	18	89
5 11	13 24.67	−27 8.8	1.519	2.464	10.5	19.3	154 E	18	89
5 16	13 19.32	−27 7.6	1.568	2.487	12.2	19.5	149 E	18	89
5 21	13 14.87	−27 4.9	1.622	2.509	13.9	19.6	144 E	18	89
5 26	13 11.33	−27 1.6	1.682	2.532	15.4	19.8	139 E	18	89
5 31	13 8.71	−26 58.6	1.746	2.554	16.7	19.9	134 E	18	89
6 10	13 6.08	−26 56.0	1.886	2.597	18.8	20.2	124 E	18*	89
6 20	13 6.56	−27 0.5	2.037	2.640	20.3	20.5	116 E	16*	89
6 30	13 9.75	−27 13.8	2.198	2.683	21.2	20.7	107 E	13*	89
7 10	13 15.20	−27 36.2	2.364	2.724	21.6	20.9	100 E	11*	88
7 20	13 22.54	−28 7.0	2.532	2.765	21.5	21.1	92 E	8*	85*
7 30	13 31.47	−28 45.3	2.701	2.805	21.1	21.2	85 E	5*	77*
8 9	13 41.73	−29 30.2	2.868	2.844	20.4	21.4	78 E	3*	70*
8 19	13 53.14	−30 20.2	3.031	2.882	19.5	21.5	72 E	1*	63*

306462 1999 RC_{32}

12 23	13 53.19	+32 32.0	0.727	1.135	59.0	20.2	82 W	75*	16*
12 28	13 55.31	+30 35.4	0.719	1.157	57.7	20.2	84 W	75*	20*
1 2	13 56.47	+28 42.9	0.707	1.180	56.3	20.1	87 W	74*	25*
1 7	13 56.58	+26 53.6	0.693	1.204	54.7	20.1	90 W	72	29*
1 12	13 55.52	+25 6.9	0.677	1.230	52.9	20.0	94 W	70	34*
1 17	13 53.15	+23 21.8	0.659	1.257	50.8	20.0	98 W	68	38*
1 22	13 49.26	+21 37.5	0.639	1.285	48.4	19.9	103 W	67	41*
1 27	13 43.68	+19 52.6	0.619	1.313	45.6	19.8	108 W	65	44*
2 1	13 36.21	+18 5.7	0.600	1.342	42.3	19.7	113 W	63	46
2 6	13 26.72	+16 15.4	0.582	1.372	38.6	19.6	120 W	61	48
2 11	13 15.16	+14 20.5	0.566	1.402	34.3	19.4	127 W	59	50
2 21	12 46.20	+10 15.8	0.547	1.462	24.2	19.1	143 W	55	54
3 2	12 11.99	+ 6 0.0	0.553	1.523	12.8	18.9	160 W	51	58
3 12	11 37.92	+ 1 58.4	0.590	1.583	1.6	18.6	177 W	47	62
3 17	11 22.66	+ 0 11.5	0.621	1.613	3.9	18.9	174 E	45	64
3 22	11 9.19	− 1 23.6	0.659	1.643	8.5	19.3	166 E	44	65
3 27	10 57.76	− 2 46.9	0.704	1.673	12.6	19.6	158 E	42	67
4 1	10 48.44	− 3 59.1	0.755	1.702	16.2	19.9	152 E	41	68
4 6	10 41.13	− 5 2.1	0.812	1.731	19.2	20.2	145 E	40	69
4 11	10 35.68	− 5 57.3	0.873	1.760	21.7	20.5	140 E	39	70
4 16	10 31.89	− 6 46.3	0.938	1.788	23.8	20.7	134 E	38	71
4 21	10 29.58	− 7 30.6	1.007	1.816	25.4	21.0	129 E	37	72
4 26	10 28.57	− 8 11.6	1.078	1.844	26.8	21.2	124 E	37	72
5 1	10 28.69	− 8 50.3	1.151	1.871	27.8	21.4	120 E	36	73

32827 1992 DF_1

12 23	13 53.35	+ 0 42.9	2.809	2.555	20.4	20.3	65 W	44*	37*
1 2	14 6.07	+ 0 45.2	2.710	2.584	21.2	20.3	72 W	46*	44*
1 12	14 17.57	+ 1 2.5	2.605	2.612	21.7	20.2	80 W	46	50*
1 22	14 27.66	+ 1 36.1	2.497	2.639	21.9	20.2	87 W	47	56*
2 1	14 36.07	+ 2 26.8	2.387	2.665	21.6	20.1	95 W	47	60*
2 11	14 42.52	+ 3 35.0	2.280	2.690	20.9	20.0	104 W	49	60*
2 21	14 46.74	+ 5 0.2	2.179	2.714	19.7	19.8	112 W	50	59
3 2	14 48.48	+ 6 40.8	2.087	2.737	18.0	19.7	121 W	52	57
3 12	14 47.57	+ 8 32.9	2.009	2.759	15.9	19.6	130 W	54	55

32827 1992 DF_1 *(continuation)*

3 17	14 46.12	+ 9 31.7	1.977	2.770	14.8	19.5	135 W	55	54
3 22	14 44.00	+10 31.0	1.950	2.780	13.6	19.5	139 W	56	53
3 27	14 41.27	+11 29.9	1.928	2.791	12.4	19.4	143 W	56	53
4 1	14 37.98	+12 27.1	1.912	2.801	11.3	19.3	147 W	57	52
4 6	14 34.19	+13 21.5	1.902	2.810	10.4	19.3	149 W	58	51
4 11	14 30.01	+14 12.0	1.899	2.820	9.8	19.3	151 W	59	50
4 16	14 25.54	+14 57.5	1.902	2.829	9.5	19.3	152 W	60	49
4 21	14 20.88	+15 37.1	1.912	2.838	9.6	19.3	152 W	61	48
4 26	14 16.16	+16 10.0	1.929	2.847	10.1	19.3	150 W	61	48
5 1	14 11.51	+16 35.8	1.951	2.855	10.8	19.4	148 E	62	47
5 11	14 2.87	+17 5.2	2.015	2.871	12.8	19.6	141 E	62	47
5 21	13 55.70	+17 6.2	2.099	2.887	14.8	19.7	133 E	62	47
5 31	13 50.52	+16 41.7	2.201	2.901	16.7	19.9	125 E	62	47
6 10	13 47.57	+15 56.4	2.318	2.914	18.2	20.1	116 E	61	48
6 20	13 46.84	+14 55.0	2.444	2.926	19.3	20.2	108 E	59*	49
6 30	13 48.23	+13 41.6	2.577	2.937	19.9	20.4	100 E	55*	50
7 10	13 51.54	+12 19.9	2.714	2.947	20.2	20.5	93 E	50*	52
7 20	13 56.54	+10 52.6	2.851	2.956	20.0	20.6	86 E	46*	53
7 30	14 3.05	+ 9 22.0	2.987	2.964	19.6	20.7	79 E	42*	54*
8 9	14 10.85	+ 7 49.9	3.119	2.971	19.0	20.8	72 E	38*	53*
8 19	14 19.78	+ 6 17.6	3.246	2.977	18.1	20.9	66 E	35*	50*
8 29	14 29.72	+ 4 46.5	3.366	2.982	17.0	20.9	59 E	32*	46*
9 8	14 40.51	+ 3 17.6	3.476	2.986	15.7	20.9	53 E	29*	41*
9 18	14 52.08	+ 1 51.7	3.577	2.989	14.3	21.0	47 E	27*	36*
9 28	15 4.32	+ 0 29.6	3.666	2.991	12.8	21.0	42 E	24*	30*
10 8	15 17.16	− 0 47.7	3.743	2.991	11.3	20.9	36 E	22*	24*
10 18	15 30.52	− 1 59.8	3.807	2.991	9.7	20.9	30 E	20*	17*
10 28	15 44.34	− 3 5.8	3.857	2.990	8.2	20.9	25 E	17*	10*
11 7	15 58.55	− 4 5.1	3.892	2.987	6.8	20.8	21 E	15*	4*
11 17	16 13.08	− 4 57.2	3.912	2.984	5.7	20.8	18 E	11*	—
11 27	16 27.85	− 5 41.6	3.916	2.980	5.2	20.8	16 E	8*	—
12 7	16 42.80	− 6 17.7	3.905	2.974	5.4	20.8	17 W	8*	—
12 17	16 57.84	− 6 45.4	3.879	2.968	6.3	20.8	19 W	13*	—
12 27	17 12.88	− 7 4.2	3.836	2.960	7.6	20.8	23 W	17*	1*
1 6	17 27.83	− 7 14.0	3.779	2.952	9.1	20.8	28 W	21*	8*
1 16	17 42.60	− 7 14.9	3.707	2.942	10.8	20.9	34 W	24*	16*

68350 2001 MK_3

12 23	13 53.57	+ 6 32.0	1.491	1.441	39.2	19.1	68 W	50*	34*
1 2	14 21.30	+ 7 21.3	1.451	1.474	39.3	19.1	72 W	52*	36*
1 12	14 47.73	+ 8 29.8	1.412	1.507	39.2	19.1	76 W	53*	39*
1 22	15 12.60	+ 9 58.3	1.373	1.541	38.9	19.1	80 W	55*	42*
2 1	15 35.57	+11 47.4	1.334	1.575	38.5	19.1	84 W	57*	44*
2 11	15 56.30	+13 56.2	1.297	1.609	37.8	19.0	88 W	59	46*
2 21	16 14.45	+16 23.2	1.260	1.642	37.0	19.0	93 W	61	46*
2 26	16 22.41	+17 42.9	1.243	1.659	36.5	19.0	95 W	63	45*
3 2	16 29.56	+19 5.9	1.225	1.675	35.9	18.9	98 W	64	45*
3 7	16 35.85	+20 31.8	1.209	1.692	35.3	18.9	100 W	66	43*
3 12	16 41.21	+21 59.8	1.193	1.708	34.6	18.9	102 W	67	42
3 17	16 45.60	+23 29.2	1.178	1.724	33.9	18.8	105 W	68	41
3 22	16 48.93	+24 59.0	1.163	1.740	33.2	18.8	107 W	70	39
3 27	16 51.14	+26 28.2	1.150	1.755	32.4	18.8	109 W	71	38
4 1	16 52.19	+27 55.2	1.138	1.770	31.6	18.8	112 W	73	36
4 6	16 52.05	+29 18.6	1.127	1.785	30.8	18.7	114 W	74	35
4 11	16 50.68	+30 36.8	1.119	1.800	30.0	18.7	116 W	76	33
4 16	16 48.10	+31 48.0	1.111	1.814	29.2	18.7	118 W	77	32
4 21	16 44.32	+32 50.3	1.106	1.828	28.5	18.7	120 W	78	31
4 26	16 39.42	+33 41.6	1.104	1.842	27.7	18.7	122 W	79	30
5 1	16 33.55	+34 20.2	1.104	1.855	27.1	18.7	123 W	79	30
5 6	16 26.87	+34 44.3	1.106	1.869	26.6	18.7	124 W	80	29
5 11	16 19.62	+34 53.0	1.112	1.881	26.1	18.7	125 W	80	29
5 16	16 12.03	+34 45.4	1.120	1.894	25.8	18.7	125 W	80	29
5 21	16 4.37	+34 21.3	1.132	1.906	25.7	18.7	125 W	79	30
5 26	15 56.90	+33 41.0	1.147	1.917	25.6	18.8	125 E	79	30
5 31	15 49.87	+32 45.5	1.165	1.929	25.7	18.8	124 E	78	31
6 5	15 43.48	+31 36.1	1.187	1.940	25.9	18.9	123 E	77	32
6 10	15 37.87	+30 14.7	1.212	1.950	26.2	19.0	122 E	75	34
6 15	15 33.14	+28 43.0	1.240	1.960	26.6	19.0	120 E	74	35
6 20	15 29.33	+27 3.0	1.272	1.970	27.0	19.1	118 E	72	37
6 25	15 26.49	+25 16.5	1.306	1.980	27.4	19.2	116 E	70	39
6 30	15 24.59	+23 25.3	1.344	1.989	27.8	19.3	114 E	68	41
7 5	15 23.61	+21 31.0	1.384	1.997	28.2	19.4	112 E	67	42
7 10	15 23.48	+19 35.0	1.427	2.005	28.6	19.4	109 E	64*	44
7 15	15 24.17	+17 38.5	1.472	2.013	28.9	19.5	107 E	62*	46
7 20	15 25.61	+15 42.2	1.520	2.021	29.2	19.6	104 E	59*	48
7 25	15 27.75	+13 47.1	1.569	2.028	29.4	19.7	101 E	57*	50
7 30	15 30.55	+11 53.8	1.620	2.034	29.6	19.8	98 E	54*	52
8 9	15 37.89	+ 8 14.6	1.727	2.046	29.7	19.9	93 E	49*	56
8 19	15 47.26	+ 4 47.3	1.837	2.056	29.4	20.1	87 E	45*	59*
8 29	15 58.40	+ 1 33.5	1.951	2.065	29.0	20.2	82 E	41*	61*

68350 2001 MK_3 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 8	16 11.04	− 1 25.9	2.065	2.072	28.2	20.3	76 E	37*	60*
9 18	16 25.01	− 4 10.6	2.178	2.077	27.2	20.4	71 E	34*	57*
9 28	16 40.18	− 6 40.4	2.289	2.081	26.0	20.5	65 E	31*	54*
10 8	16 56.38	− 8 55.3	2.396	2.083	24.5	20.5	60 E	29*	49*
10 18	17 13.54	−10 55.3	2.498	2.083	22.9	20.6	54 E	26*	44*
10 28	17 31.54	−12 40.6	2.593	2.082	21.1	20.6	49 E	24*	39*
11 7	17 50.30	−14 11.2	2.679	2.078	19.2	20.6	44 E	22*	33*
11 17	18 9.74	−15 27.4	2.757	2.074	17.2	20.6	38 E	20*	27*
11 27	18 29.77	−16 29.3	2.825	2.067	15.0	20.6	33 E	17*	21*
12 7	18 50.31	−17 17.3	2.881	2.059	12.8	20.5	28 E	15*	16*
12 17	19 11.28	−17 51.8	2.926	2.049	10.5	20.5	22 E	12*	11*
12 27	19 32.60	−18 13.2	2.958	2.038	8.1	20.4	17 E	8*	6*
1 6	19 54.21	−18 22.2	2.978	2.024	5.6	20.3	12 E	4*	2*
1 16	20 16.07	−18 19.4	2.984	2.010	3.2	20.1	6 E	—	—

19764 2000 NF_5

12 23	13 54.13	−12 55.2	2.336	2.023	24.8	20.4	59 W	31*	43*
1 2	14 14.70	−14 47.0	2.182	1.967	26.8	20.3	64 W	30*	50*
1 12	14 36.11	−16 35.0	2.027	1.911	28.7	20.1	69 W	28*	56*
1 22	14 58.50	−18 18.1	1.873	1.855	30.6	19.9	74 W	27	62*
2 1	15 21.98	−19 54.5	1.721	1.798	32.4	19.7	78 W	25	68*
2 6	15 34.17	−20 39.6	1.647	1.769	33.3	19.6	80 W	24	71*
2 11	15 46.69	−21 22.4	1.574	1.741	34.2	19.5	82 W	24	74*
2 16	15 59.57	−22 2.6	1.502	1.712	35.0	19.4	84 W	23	76*
2 21	16 12.82	−22 39.9	1.432	1.684	35.9	19.3	86 W	22	79*
2 26	16 26.46	−23 13.7	1.363	1.656	36.7	19.2	88 W	22	81*
3 2	16 40.51	−23 43.9	1.296	1.628	37.5	19.0	90 W	21	83*
3 7	16 54.98	−24 9.9	1.232	1.601	38.3	18.9	91 W	21	85*
3 12	17 9.91	−24 31.3	1.169	1.574	39.1	18.8	93 W	20*	86*
3 17	17 25.31	−24 47.6	1.109	1.547	39.9	18.7	94 W	20*	88*
3 22	17 41.18	−24 58.1	1.052	1.520	40.7	18.5	96 W	20*	89*
3 27	17 57.52	−25 2.4	0.997	1.495	41.5	18.4	97 W	20*	89
4 1	18 14.33	−24 59.7	0.944	1.470	42.3	18.3	98 W	20*	89
4 6	18 31.60	−24 49.3	0.895	1.445	43.1	18.1	99 W	20*	89
4 11	18 49.32	−24 30.8	0.849	1.422	43.9	18.0	100 W	20*	89
4 16	19 7.44	−24 3.5	0.805	1.399	44.8	17.9	101 W	20*	88
4 21	19 25.91	−23 26.7	0.764	1.378	45.6	17.8	101 W	20*	87
4 26	19 44.65	−22 40.3	0.727	1.358	46.5	17.6	102 W	21*	87
5 1	20 3.58	−21 44.0	0.693	1.339	47.3	17.5	102 W	21*	86
5 6	20 22.62	−20 37.8	0.661	1.321	48.2	17.4	103 W	22*	85
5 11	20 41.66	−19 22.1	0.633	1.305	49.0	17.3	103 W	23*	83
5 16	21 0.60	−17 57.4	0.608	1.291	49.8	17.2	103 W	24*	82
5 21	21 19.29	−16 24.7	0.586	1.278	50.5	17.1	103 W	25*	80
5 26	21 37.61	−14 45.4	0.566	1.267	51.1	17.1	103 W	26*	79
5 31	21 55.46	−13 0.9	0.549	1.258	51.7	17.0	103 W	28*	77
6 5	22 12.73	−11 12.9	0.534	1.252	52.0	16.9	103 W	29*	75
6 10	22 29.34	− 9 23.1	0.521	1.247	52.3	16.9	104 W	31*	73
6 15	22 45.18	− 7 33.4	0.511	1.244	52.3	16.8	104 W	33*	72
6 20	23 0.16	− 5 45.4	0.501	1.243	52.2	16.8	105 W	35*	70
6 25	23 14.19	− 4 0.8	0.494	1.245	51.8	16.8	106 W	38*	68
6 30	23 27.21	− 2 21.1	0.487	1.248	51.2	16.7	107 W	40*	66
7 5	23 39.16	− 0 47.3	0.481	1.254	50.4	16.7	108 W	42*	65
7 10	23 50.00	+ 0 39.6	0.476	1.261	49.3	16.6	110 W	44*	63
7 15	23 59.63	+ 1 58.7	0.472	1.271	47.9	16.6	112 W	46*	62
7 20	0 7.97	+ 3 9.1	0.468	1.282	46.2	16.5	114 W	48*	61
7 30	0 20.58	+ 5 1.7	0.462	1.311	42.0	16.5	120 W	50	59
8 9	0 27.51	+ 6 14.4	0.460	1.345	36.6	16.3	128 W	51	58
8 19	0 28.61	+ 6 45.4	0.462	1.385	30.0	16.2	137 W	52	57
8 29	0 24.43	+ 6 35.7	0.471	1.430	22.3	16.1	147 W	52	57
9 3	0 20.80	+ 6 17.6	0.480	1.454	18.3	16.1	153 W	51	58
9 8	0 16.45	+ 5 52.5	0.493	1.478	14.1	16.0	159 W	51	58
9 13	0 11.67	+ 5 22.0	0.509	1.504	9.9	16.0	165 W	50	59
9 18	0 6.77	+ 4 48.2	0.529	1.529	5.9	15.9	171 W	50	59
9 23	0 2.03	+ 4 13.1	0.553	1.556	2.7	15.9	176 W	49	60
9 28	23 57.74	+ 3 38.9	0.582	1.583	3.4	16.1	175 E	49	60
10 3	23 54.09	+ 3 7.4	0.616	1.610	6.6	16.4	169 E	48	61
10 8	23 51.19	+ 2 39.8	0.654	1.638	9.8	16.7	164 E	48	61
10 13	23 49.14	+ 2 16.9	0.697	1.666	12.8	17.0	158 E	47	62
10 18	23 47.97	+ 1 59.3	0.744	1.694	15.4	17.3	153 E	47	62
10 28	23 48.27	+ 1 41.3	0.851	1.750	19.9	17.8	143 E	47	62
11 7	23 51.76	+ 1 45.1	0.972	1.807	23.2	18.2	134 E	47	62
11 17	23 57.91	+ 2 8.0	1.107	1.864	25.6	18.6	126 E	47	62
11 27	0 6.26	+ 2 47.2	1.253	1.921	27.1	19.0	118 E	48	61
12 7	0 16.33	+ 3 39.4	1.408	1.977	27.9	19.4	110 E	49	60
12 17	0 27.76	+ 4 41.7	1.570	2.032	28.2	19.7	103 E	50	58*
12 27	0 40.27	+ 5 51.9	1.738	2.086	27.9	19.9	96 E	51	55*
1 6	0 53.63	+ 7 7.5	1.909	2.140	27.4	20.2	90 E	52	50*
1 16	1 7.67	+ 8 26.9	2.082	2.192	26.4	20.4	83 E	53	45*

67381 2000 OL_8

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	13 54.49	−14 14.3	0.524	0.843	88.8	21.2	59 W	30*	44*
12 25	14 9.50	−16 17.0	0.534	0.824	90.2	21.2	57 W	27*	43*
12 27	14 24.52	−18 12.3	0.546	0.806	91.3	21.2	55 W	25*	43*
12 29	14 39.50	−19 59.5	0.560	0.787	92.2	21.3	53 W	23*	42*
12 31	14 54.41	−21 38.1	0.575	0.769	92.9	21.3	51 W	21*	41*
1 2	15 9.22	−23 7.6	0.593	0.752	93.3	21.4	50 W	19*	40*
1 7	15 45.62	−26 11.7	0.644	0.710	93.0	21.4	46 W	15*	38*
1 12	16 20.96	−28 21.1	0.705	0.673	91.0	21.4	43 W	12*	36*
1 17	16 55.11	−29 40.6	0.774	0.642	87.5	21.4	41 W	10*	34*
1 22	17 28.05	−30 16.1	0.849	0.619	82.6	21.3	39 W	8*	32*
1 27	17 59.73	−30 13.3	0.928	0.606	76.7	21.2	37 W	6*	31*
2 1	18 30.04	−29 37.8	1.009	0.604	70.2	21.2	35 W	5*	29*
2 6	18 58.83	−28 35.2	1.090	0.613	63.7	21.2	34 W	4*	28*
2 11	19 25.97	−27 11.4	1.169	0.631	57.6	21.2	33 W	4*	27*
2 16	19 51.35	−25 31.8	1.244	0.659	52.1	21.3	32 W	4*	26*
2 21	20 14.95	−23 41.3	1.316	0.694	47.4	21.4	31 W	4*	25*

213177 2000 SW_{125}

12 23	13 54.56	+ 1 54.4	2.417	2.197	24.0	21.2	65 W	46*	36*
1 2	14 7.00	+ 0 25.7	2.337	2.234	24.7	21.2	72 W	45*	44*
1 12	14 17.89	− 0 52.9	2.249	2.271	25.1	21.2	79 W	44	51*
1 22	14 27.00	− 2 1.5	2.156	2.308	25.2	21.1	86 W	43	59*
2 1	14 34.02	− 3 0.5	2.058	2.345	24.8	21.1	94 W	42	65*
2 11	14 38.61	− 3 50.2	1.961	2.381	23.8	21.0	103 W	41	68*
2 21	14 40.44	− 4 31.4	1.865	2.416	22.3	20.8	112 W	40	69
3 2	14 39.17	− 5 4.8	1.777	2.451	20.0	20.7	122 W	40	69
3 12	14 34.63	− 5 31.6	1.700	2.485	17.0	20.5	133 W	39	70
3 22	14 26.87	− 5 53.1	1.641	2.519	13.3	20.4	144 W	39	70
4 1	14 16.31	− 6 10.9	1.604	2.552	9.0	20.2	157 W	39	70
4 11	14 3.82	− 6 27.1	1.594	2.584	4.4	20.0	169 W	39	70
4 21	13 50.62	− 6 44.0	1.613	2.615	2.0	19.9	175 E	38	71
5 1	13 38.02	− 7 4.1	1.662	2.646	5.9	20.2	164 E	38	71
5 11	13 27.17	− 7 29.4	1.739	2.675	10.1	20.5	152 E	38	71
5 21	13 18.80	− 8 1.4	1.841	2.704	13.6	20.8	141 E	37	72
5 31	13 13.24	− 8 40.7	1.963	2.732	16.4	21.0	130 E	36	73
6 10	13 10.49	− 9 27.4	2.101	2.759	18.5	21.3	121 E	35*	73
6 20	13 10.33	−10 21.0	2.251	2.785	19.9	21.5	111 E	32*	74

307006 2001 XQ_1

12 23	13 55.44	−17 18.2	3.896	3.473	13.9	21.2	58 W	27*	45*
1 2	14 2.43	−18 46.1	3.775	3.491	14.9	21.2	66 W	26*	54*
1 12	14 8.27	−20 11.5	3.645	3.509	15.7	21.2	74 W	25	64*
1 22	14 12.77	−21 34.2	3.508	3.525	16.1	21.1	83 W	23	74*
2 1	14 15.64	−22 53.6	3.368	3.541	16.1	21.1	92 W	22	84*
2 11	14 16.65	−24 9.1	3.228	3.556	15.8	21.0	101 W	21	88
2 21	14 15.56	−25 19.3	3.094	3.570	15.0	20.8	111 W	20	89
3 2	14 12.17	−26 22.6	2.970	3.583	13.7	20.7	121 W	19	90
3 12	14 6.44	−27 16.4	2.861	3.595	12.0	20.6	131 W	18	89
3 22	13 58.47	−27 58.1	2.772	3.606	9.9	20.4	142 W	17	88
4 1	13 48.62	−28 24.9	2.707	3.616	7.6	20.3	151 W	17	88
4 6	13 43.19	−28 32.2	2.686	3.621	6.5	20.2	156 W	16	87
4 11	13 37.55	−28 35.4	2.671	3.626	5.6	20.2	159 W	16	87
4 16	13 31.81	−28 34.5	2.664	3.630	5.0	20.2	161 E	16	87
4 21	13 26.06	−28 29.7	2.665	3.634	4.9	20.1	162 E	17	88
4 26	13 20.44	−28 21.4	2.674	3.638	5.3	20.2	161 E	17	88
5 1	13 15.05	−28 10.2	2.690	3.642	6.1	20.2	158 E	17	88
5 6	13 9.98	−27 56.6	2.714	3.645	7.0	20.3	154 E	17	88
5 11	13 5.31	−27 41.3	2.744	3.649	8.1	20.4	149 E	17	88
5 16	13 1.10	−27 24.9	2.781	3.652	9.2	20.4	145 E	18	89
5 21	12 57.40	−27 8.0	2.824	3.655	10.3	20.5	140 E	18	89
5 26	12 54.25	−26 51.4	2.872	3.657	11.3	20.6	135 E	18	89
5 31	12 51.66	−26 35.5	2.926	3.659	12.3	20.7	130 E	18	89
6 5	12 49.64	−26 20.9	2.984	3.662	13.1	20.8	125 E	18*	90
6 10	12 48.18	−26 7.9	3.045	3.664	13.8	20.8	120 E	18*	90
6 15	12 47.27	−25 56.9	3.110	3.665	14.5	20.9	116 E	17*	90
6 20	12 46.89	−25 48.0	3.178	3.667	15.0	21.0	111 E	16*	90
6 25	12 47.02	−25 41.5	3.247	3.668	15.4	21.0	107 E	15*	90
6 30	12 47.63	−25 37.5	3.318	3.669	15.7	21.1	102 E	13*	90
7 5	12 48.70	−25 36.0	3.390	3.670	15.9	21.1	98 E	12*	90
7 10	12 50.19	−25 37.1	3.463	3.670	16.0	21.2	94 E	10*	88*
7 15	12 52.08	−25 40.6	3.535	3.671	16.1	21.2	90 E	8*	83*
7 20	12 54.36	−25 46.7	3.608	3.671	16.0	21.3	86 E	7*	79*
7 25	12 56.98	−25 55.2	3.679	3.671	15.9	21.3	82 E	5*	74*
7 30	12 59.94	−26 6.1	3.750	3.671	15.7	21.4	78 E	4*	70*
8 4	13 3.20	−26 19.2	3.819	3.670	15.4	21.4	74 E	2*	66*
8 9	13 6.75	−26 34.4	3.886	3.669	15.1	21.4	70 E	1*	62*
8 14	13 10.57	−26 51.7	3.951	3.668	14.7	21.4	67 E	—	58*
8 19	13 14.64	−27 10.9	4.014	3.667	14.2	21.4	63 E	—	54*
8 24	13 18.95	−27 32.0	4.074	3.666	13.7	21.5	59 E	—	50*
8 29	13 23.49	−27 54.8	4.132	3.664	13.2	21.5	56 E	—	47*
9 3	13 28.23	−28 19.3	4.186	3.662	12.6	21.5	53 E	—	43*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
307006 2001 XQ_1 *(continuation)*									
9 8	13 33.16	−28 45.2	4.237	3.660	12.0	21.5	49 E	—	40*
9 13	13 38.29	−29 12.5	4.284	3.658	11.4	21.5	46 E	—	36*
9 18	13 43.59	−29 41.1	4.328	3.655	10.8	21.5	43 E	—	33*
9 23	13 49.07	−30 11.0	4.368	3.653	10.1	21.5	40 E	—	29*
9 28	13 54.70	−30 42.0	4.405	3.650	9.4	21.5	37 E	—	26*
10 3	14 0.48	−31 14.0	4.437	3.646	8.8	21.4	34 E	—	23*
10 8	14 6.40	−31 46.9	4.465	3.643	8.1	21.4	31 E	—	20*
10 13	14 12.46	−32 20.7	4.488	3.639	7.4	21.4	28 E	—	17*
10 18	14 18.66	−32 55.3	4.507	3.635	6.8	21.4	26 E	—	14*
10 23	14 24.98	−33 30.6	4.522	3.631	6.3	21.4	23 E	—	11*
10 28	14 31.41	−34 6.6	4.533	3.627	5.8	21.3	22 E	—	8*
11 2	14 37.95	−34 43.1	4.538	3.623	5.4	21.3	20 E	—	5*
11 7	14 44.60	−35 20.1	4.540	3.618	5.1	21.3	19 W	—	4*
11 12	14 51.34	−35 57.6	4.536	3.613	5.0	21.3	19 W	—	6*
11 17	14 58.18	−36 35.5	4.528	3.608	5.1	21.3	19 W	—	9*
11 22	15 5.10	−37 13.8	4.516	3.602	5.3	21.3	20 W	—	11*
11 27	15 12.10	−37 52.4	4.499	3.597	5.7	21.3	21 W	—	13*
12 2	15 19.16	−38 31.3	4.478	3.591	6.1	21.3	23 W	—	16*
12 7	15 26.28	−39 10.4	4.452	3.585	6.7	21.3	25 W	—	18*
12 12	15 33.45	−39 49.8	4.422	3.578	7.3	21.3	28 W	—	21*
12 17	15 40.66	−40 29.4	4.388	3.572	8.0	21.3	30 W	—	24*
12 22	15 47.90	−41 9.3	4.349	3.565	8.6	21.3	33 W	—	27*
12 27	15 55.15	−41 49.4	4.307	3.558	9.3	21.3	36 W	—	30*
1 1	16 2.41	−42 29.8	4.261	3.551	10.0	21.3	39 W	—	32*
1 6	16 9.67	−43 10.5	4.212	3.543	10.7	21.3	42 W	—	35*
1 11	16 16.90	−43 51.5	4.159	3.536	11.4	21.3	45 W	—	38*
1 16	16 24.09	−44 32.9	4.102	3.528	12.0	21.3	48 W	—	41*
132124 2002 CW_{237}									
12 23	13 56.22	+ 2 56.9	1.816	1.667	32.5	18.4	65 W	47*	35*
1 2	14 15.93	+ 0 9.6	1.745	1.679	33.3	18.3	70 W	45*	42*
1 12	14 34.46	− 2 32.5	1.672	1.694	34.0	18.3	74 W	42*	49*
1 22	14 51.68	− 5 9.9	1.595	1.711	34.4	18.2	79 W	40	57*
2 1	15 7.31	− 7 43.6	1.516	1.731	34.5	18.1	85 W	37	64*
2 11	15 21.06	−10 15.3	1.435	1.754	34.2	18.0	91 W	35	71*
2 21	15 32.53	−12 47.1	1.354	1.778	33.5	17.9	98 W	32	77*
3 2	15 41.20	−15 21.4	1.274	1.805	32.0	17.8	105 W	30	79
3 12	15 46.48	−18 0.4	1.198	1.833	29.9	17.6	113 W	27	82
3 22	15 47.73	−20 45.0	1.129	1.862	26.9	17.4	122 W	24	85
4 1	15 44.33	−23 33.6	1.071	1.893	23.0	17.2	132 W	21	88
4 6	15 40.77	−24 57.7	1.048	1.909	20.8	17.1	137 W	20	89
4 11	15 35.98	−26 20.3	1.029	1.925	18.4	17.0	143 W	19	90
4 16	15 30.02	−27 39.7	1.015	1.941	15.8	16.9	148 W	17	88
4 21	15 23.01	−28 54.5	1.006	1.957	13.3	16.8	153 W	16	87
4 26	15 15.14	−30 2.8	1.004	1.974	10.8	16.8	158 W	15	86
5 1	15 6.68	−31 3.4	1.007	1.991	8.8	16.7	162 W	14	85
5 6	14 57.95	−31 55.3	1.017	2.008	7.7	16.7	165 W	13	84
5 11	14 49.26	−32 38.0	1.034	2.025	7.7	16.8	164 E	12	83
5 16	14 40.93	−33 11.9	1.057	2.042	8.9	16.9	162 E	12	83
5 21	14 33.23	−33 37.6	1.086	2.059	10.6	17.0	158 E	11	82
5 26	14 26.41	−33 56.3	1.120	2.077	12.6	17.2	153 E	11	82
5 31	14 20.62	−34 9.4	1.161	2.094	14.6	17.3	149 E	11	82
6 5	14 15.96	−34 18.6	1.206	2.111	16.5	17.5	144 E	11	82
6 10	14 12.47	−34 25.0	1.255	2.129	18.2	17.7	139 E	11	82
6 15	14 10.12	−34 30.0	1.309	2.146	19.8	17.8	134 E	10	81
6 20	14 8.89	−34 34.3	1.366	2.164	21.1	18.0	130 E	10*	81
6 25	14 8.72	−34 39.0	1.426	2.181	22.3	18.1	126 E	10*	81
6 30	14 9.54	−34 44.4	1.489	2.198	23.2	18.3	121 E	9*	81
7 5	14 11.28	−34 51.0	1.555	2.216	24.0	18.4	117 E	9*	81
7 10	14 13.85	−34 59.0	1.622	2.233	24.6	18.5	114 E	8*	81
7 15	14 17.18	−35 8.5	1.691	2.250	25.1	18.7	110 E	7*	81
7 20	14 21.21	−35 19.4	1.762	2.267	25.5	18.8	106 E	6*	81
7 30	14 31.13	−35 45.4	1.906	2.301	25.8	19.0	99 E	5*	80
8 9	14 43.19	−36 16.3	2.053	2.335	25.7	19.2	93 E	3*	78*
8 19	14 57.04	−36 50.5	2.201	2.368	25.3	19.3	87 E	2*	73*
8 29	15 12.43	−37 26.5	2.349	2.401	24.5	19.5	81 E	1*	68*
9 8	15 29.13	−38 2.7	2.495	2.433	23.6	19.6	75 E	—	63*
9 18	15 46.98	−38 37.7	2.637	2.465	22.4	19.7	69 E	—	58*
9 28	16 5.83	−39 9.9	2.776	2.495	21.1	19.8	64 E	—	54*
10 8	16 25.51	−39 38.1	2.908	2.526	19.6	19.9	58 E	—	49*
10 18	16 45.91	−40 1.2	3.035	2.555	18.0	20.0	53 E	—	44*
10 28	17 6.89	−40 18.1	3.153	2.584	16.4	20.0	47 E	—	39*
11 7	17 28.29	−40 28.1	3.262	2.612	14.7	20.1	42 E	—	35*
11 17	17 50.00	−40 30.6	3.362	2.639	13.0	20.1	37 E	—	30*
11 27	18 11.87	−40 25.4	3.451	2.665	11.3	20.1	32 E	—	25*
12 7	18 33.75	−40 12.2	3.528	2.691	9.7	20.1	27 E	—	20*
12 17	18 55.52	−39 51.4	3.594	2.716	8.2	20.1	23 E	—	16*
12 27	19 17.06	−39 23.3	3.646	2.740	6.9	20.1	20 E	—	12*
1 6	19 38.23	−38 48.6	3.684	2.763	6.2	20.1	18 E	—	8*
1 16	19 58.97	−38 7.9	3.709	2.785	6.0	20.1	17 E	—	4*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
288860 2004 RQ_{222}									
12 23	13 56.38	−10 0.5	2.664	2.333	21.4	21.3	60 W	34*	42*
1 2	14 11.05	−10 12.4	2.572	2.364	22.5	21.3	67 W	35*	49*
1 12	14 24.55	−10 10.0	2.473	2.393	23.2	21.3	74 W	35	56*
1 22	14 36.69	− 9 52.0	2.368	2.423	23.7	21.2	81 W	35	63*
2 1	14 47.19	− 9 17.0	2.260	2.451	23.7	21.1	89 W	36	69*
2 11	14 55.79	− 8 23.7	2.151	2.479	23.3	21.0	97 W	37	72*
2 21	15 2.19	− 7 11.5	2.045	2.506	22.3	20.9	106 W	38	71
3 2	15 6.08	− 5 39.9	1.945	2.533	20.7	20.8	115 W	39	70
3 12	15 7.25	− 3 50.1	1.855	2.558	18.5	20.6	125 W	41	68
3 22	15 5.58	− 1 44.9	1.780	2.583	15.8	20.5	135 W	43	66
3 27	15 3.69	− 0 38.1	1.750	2.595	14.3	20.4	140 W	44	65
4 1	15 1.14	+ 0 30.3	1.726	2.607	12.7	20.3	145 W	46	63
4 6	14 58.00	+ 1 39.3	1.707	2.619	11.2	20.2	150 W	47	62
4 11	14 54.34	+ 2 47.5	1.695	2.631	9.7	20.2	154 W	48	61
4 16	14 50.25	+ 3 53.7	1.689	2.642	8.5	20.1	157 W	49	60
4 21	14 45.85	+ 4 56.7	1.690	2.653	7.8	20.1	159 W	50	59
4 26	14 41.25	+ 5 55.3	1.698	2.664	7.6	20.1	159 W	51	58
5 1	14 36.60	+ 6 48.2	1.713	2.675	8.1	20.2	158 W	52	57
5 6	14 32.03	+ 7 34.8	1.735	2.685	9.0	20.2	155 E	53	56
5 11	14 27.65	+ 8 14.4	1.764	2.696	10.2	20.3	152 E	53	56
5 21	14 19.89	+ 9 11.7	1.839	2.716	13.0	20.6	143 E	54	55
5 31	14 13.98	+ 9 40.2	1.935	2.735	15.6	20.8	134 E	55	54
6 10	14 10.31	+ 9 42.8	2.047	2.753	17.7	21.0	125 E	55	54
6 20	14 8.95	+ 9 23.9	2.173	2.770	19.3	21.2	116 E	54*	55
6 30	14 9.85	+ 8 47.8	2.308	2.787	20.4	21.4	107 E	52*	55
16635 1993 QO									
12 23	13 56.96	−30 45.5	3.401	2.941	15.8	20.1	54 W	13*	47*
1 2	14 8.91	−32 38.0	3.291	2.945	17.0	20.0	61 W	12*	55*
1 12	14 20.05	−34 29.6	3.172	2.949	18.0	20.0	68 W	11	62*
1 22	14 30.14	−36 20.0	3.047	2.951	18.8	19.9	75 W	9	69*
2 1	14 38.88	−38 9.1	2.917	2.953	19.3	19.9	82 W	7	74*
2 11	14 45.94	−39 56.4	2.785	2.954	19.5	19.8	90 W	5	76*
2 16	14 48.72	−40 49.0	2.719	2.954	19.5	19.7	94 W	4	75
2 21	14 50.93	−41 40.8	2.653	2.954	19.4	19.7	98 W	3	74
2 26	14 52.50	−42 31.4	2.589	2.953	19.2	19.6	102 W	2	73
3 2	14 53.38	−43 20.6	2.525	2.952	18.9	19.5	106 W	2	73
3 7	14 53.53	−44 7.9	2.464	2.951	18.4	19.5	110 W	1	72
3 12	14 52.89	−44 52.8	2.404	2.950	17.9	19.4	114 W	—	71
3 17	14 51.43	−45 34.9	2.348	2.949	17.3	19.3	118 W	—	70
3 22	14 49.11	−46 13.3	2.294	2.947	16.6	19.2	122 W	—	70
3 27	14 45.93	−46 47.3	2.244	2.945	15.9	19.2	126 W	—	69
4 1	14 41.90	−47 16.1	2.198	2.943	15.1	19.1	130 W	—	69
4 6	14 37.09	−47 38.8	2.157	2.940	14.2	19.0	134 W	—	68
4 11	14 31.58	−47 54.7	2.120	2.938	13.3	18.9	137 W	—	68
4 16	14 25.49	−48 3.0	2.088	2.935	12.5	18.9	141 W	—	68
4 21	14 18.96	−48 3.2	2.062	2.932	11.8	18.8	143 W	—	68
4 26	14 12.18	−47 54.9	2.042	2.928	11.2	18.8	146 E	—	68
5 1	14 5.36	−47 38.2	2.028	2.925	10.8	18.7	147 E	—	68
5 6	13 58.70	−47 13.6	2.020	2.921	10.7	18.7	147 E	—	69
5 11	13 52.38	−46 41.7	2.018	2.917	10.9	18.7	147 E	—	69
5 16	13 46.57	−46 3.4	2.023	2.912	11.4	18.8	145 E	—	70
5 21	13 41.40	−45 19.9	2.033	2.908	12.0	18.8	143 E	—	71
5 26	13 36.98	−44 32.4	2.049	2.903	12.8	18.8	140 E	—	71
5 31	13 33.38	−43 42.4	2.070	2.898	13.7	18.9	137 E	1	72
6 5	13 30.64	−42 51.1	2.097	2.892	14.7	18.9	134 E	2	73
6 10	13 28.75	−41 59.8	2.128	2.887	15.6	19.0	130 E	3*	74
6 15	13 27.70	−41 9.4	2.163	2.881	16.6	19.1	126 E	4*	75
6 20	13 27.47	−40 20.7	2.203	2.875	17.4	19.1	122 E	4*	76
6 25	13 28.02	−39 34.5	2.245	2.869	18.2	19.2	118 E	4*	76
6 30	13 29.30	−38 51.4	2.291	2.862	18.9	19.2	114 E	4*	77
7 5	13 31.28	−38 11.8	2.339	2.855	19.5	19.3	110 E	3*	78
7 10	13 33.89	−37 35.7	2.389	2.848	20.0	19.4	106 E	3*	78
7 20	13 40.84	−36 34.7	2.494	2.834	20.8	19.5	99 E	2*	79*
7 30	13 49.86	−35 48.5	2.602	2.818	21.1	19.6	92 E	1*	77*
8 9	14 0.63	−35 16.0	2.711	2.802	21.1	19.6	84 E	—	72*
8 19	14 12.94	−34 55.4	2.819	2.784	20.8	19.7	78 E	—	66*
8 29	14 26.60	−34 44.8	2.923	2.766	20.2	19.7	71 E	—	60*
9 8	14 41.45	−34 42.2	3.022	2.746	19.4	19.8	65 E	—	54*
9 18	14 57.39	−34 45.3	3.114	2.726	18.3	19.8	58 E	—	49*
9 28	15 14.31	−34 52.3	3.197	2.705	17.1	19.8	52 E	—	43*
10 8	15 32.12	−35 1.2	3.272	2.683	15.7	19.8	46 E	—	38*
10 18	15 50.75	−35 9.9	3.335	2.660	14.1	19.7	41 E	—	33*
10 28	16 10.11	−35 17.0	3.388	2.636	12.5	19.7	35 E	—	28*
11 7	16 30.12	−35 20.5	3.428	2.612	10.8	19.6	30 E	—	22*
11 17	16 50.69	−35 19.2	3.456	2.586	9.0	19.6	24 E	—	17*
11 27	17 11.73	−35 11.6	3.471	2.560	7.3	19.5	19 E	—	12*
12 7	17 33.12	−34 56.5	3.472	2.533	5.7	19.4	15 E	—	7*
12 17	17 54.77	−34 33.0	3.461	2.505	4.6	19.3	12 E	—	3*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	16635 1993 *QO*				*(continuation)*				
	h m	° ′			°	m	°	°	°
12 27	18 16.54	−34 0.3	3.436	2.476	4.3	19.2	11 W	—	1*
1 6	18 38.33	−33 17.8	3.397	2.447	5.0	19.2	13 W	—	5*
1 16	19 0.03	−32 25.1	3.347	2.417	6.5	19.2	16 W	—	9*
	119039 2001 FZ_{91}								
12 23	13 57.52	− 9 41.2	3.724	3.341	14.8	19.8	60 W	34*	41*
1 2	14 7.79	−10 52.8	3.589	3.335	15.8	19.8	67 W	34*	50*
1 12	14 17.22	−11 59.2	3.448	3.330	16.6	19.7	75 W	33	58*
1 22	14 25.64	−13 0.4	3.302	3.325	17.1	19.6	83 W	32	67*
2 1	14 32.81	−13 55.9	3.154	3.321	17.3	19.5	91 W	31	74*
2 11	14 38.53	−14 45.6	3.007	3.317	17.1	19.4	100 W	30	79
2 21	14 42.58	−15 29.3	2.865	3.315	16.4	19.3	109 W	30	79
3 2	14 44.74	−16 6.6	2.731	3.313	15.3	19.1	118 W	29	80
3 12	14 44.87	−16 37.3	2.609	3.311	13.7	19.0	128 W	28	81
3 22	14 42.91	−17 1.1	2.502	3.310	11.6	18.8	138 W	28	81
4 1	14 38.97	−17 17.7	2.415	3.310	9.0	18.6	149 W	28	81
4 11	14 33.34	−17 27.2	2.353	3.311	6.0	18.4	160 W	28	81
4 21	14 26.52	−17 30.3	2.316	3.312	2.8	18.2	171 W	27	82
5 1	14 19.17	−17 28.4	2.308	3.313	1.3	18.1	176 E	28	81
5 11	14 12.05	−17 23.9	2.328	3.316	4.3	18.3	166 E	28	81
5 21	14 5.83	−17 19.4	2.375	3.319	7.5	18.5	155 E	28	81
5 31	14 1.07	−17 17.6	2.447	3.323	10.3	18.7	144 E	28	81
6 10	13 58.13	−17 20.9	2.540	3.327	12.7	18.9	134 E	28	81
6 20	13 57.15	−17 30.8	2.651	3.332	14.6	19.0	124 E	27*	82
6 30	13 58.16	−17 48.1	2.776	3.337	16.0	19.2	115 E	26*	82
7 10	14 1.06	−18 12.8	2.910	3.344	17.0	19.3	106 E	23*	82
7 20	14 5.72	−18 44.5	3.051	3.350	17.5	19.5	98 E	20*	83
7 30	14 11.97	−19 22.6	3.195	3.358	17.6	19.6	90 E	18*	82*
8 9	14 19.64	−20 5.9	3.340	3.366	17.4	19.7	83 E	15*	77*
8 19	14 28.58	−20 53.6	3.484	3.374	16.9	19.7	75 E	13*	69*
8 29	14 38.65	−21 44.5	3.624	3.383	16.1	19.8	68 E	11*	62*
9 8	14 49.72	−22 37.5	3.758	3.393	15.1	19.9	61 E	9*	55*
9 18	15 1.69	−23 31.7	3.884	3.403	13.9	19.9	55 E	7*	48*
9 28	15 14.45	−24 26.1	4.002	3.414	12.6	19.9	48 E	6*	42*
10 8	15 27.90	−25 19.7	4.110	3.425	11.1	19.9	41 E	4*	35*
10 18	15 41.98	−26 11.8	4.206	3.437	9.6	19.9	35 E	2*	29*
10 28	15 56.60	−27 1.5	4.289	3.449	7.9	19.9	29 E	—	22*
11 7	16 11.65	−27 48.2	4.358	3.462	6.2	19.9	22 E	—	16*
11 17	16 27.08	−28 31.3	4.413	3.475	4.6	19.8	16 E	—	10*
11 27	16 42.78	−29 10.4	4.453	3.488	3.0	19.8	11 E	—	4*
12 7	16 58.66	−29 45.1	4.478	3.502	2.0	19.7	7 E	—	—
12 17	17 14.62	−30 15.3	4.486	3.517	2.5	19.8	9 W	—	2*
12 27	17 30.56	−30 40.9	4.478	3.532	3.8	19.9	14 W	—	8*
1 6	17 46.36	−31 2.1	4.455	3.547	5.4	19.9	20 W	—	14*
1 16	18 1.91	−31 19.1	4.416	3.563	7.1	20.0	26 W	1*	20*
	209519 2004 RQ_{326}								
12 23	13 58.44	− 4 19.2	2.207	1.945	26.5	20.7	62 W	39*	39*
1 2	14 13.69	− 6 37.1	2.133	1.977	27.3	20.6	67 W	38*	46*
1 12	14 27.62	− 8 47.8	2.054	2.010	28.0	20.6	74 W	36*	54*
1 22	14 40.03	−10 52.3	1.968	2.044	28.3	20.6	80 W	34	63*
2 1	14 50.61	−12 51.0	1.878	2.078	28.3	20.5	87 W	32	71*
2 11	14 59.01	−14 44.9	1.787	2.113	27.7	20.4	95 W	30	78*
2 21	15 4.81	−16 35.0	1.695	2.147	26.7	20.3	103 W	28	81
3 2	15 7.54	−18 21.5	1.607	2.181	24.9	20.2	112 W	27	82
3 12	15 6.75	−20 3.9	1.526	2.216	22.4	20.0	122 W	25	84
3 22	15 2.14	−21 40.4	1.457	2.250	19.2	19.9	132 W	23	86
4 1	14 53.65	−23 7.2	1.404	2.284	15.2	19.7	143 W	22	87
4 6	14 48.08	−23 45.5	1.385	2.301	13.0	19.6	149 W	21	88
4 11	14 41.78	−24 19.4	1.373	2.318	10.7	19.5	154 W	21	88
4 16	14 34.90	−24 48.6	1.366	2.334	8.5	19.4	160 W	20	89
4 21	14 27.63	−25 12.4	1.367	2.351	6.5	19.3	165 W	20	89
4 26	14 20.18	−25 31.0	1.374	2.367	5.1	19.3	168 W	19	90
5 1	14 12.79	−25 44.3	1.388	2.384	4.9	19.3	168 E	19	90
5 6	14 5.67	−25 53.1	1.410	2.400	6.0	19.4	166 E	19	90
5 11	13 59.03	−25 57.9	1.438	2.416	7.7	19.6	161 E	19	90
5 16	13 53.00	−25 59.5	1.472	2.432	9.7	19.7	156 E	19	90
5 21	13 47.71	−25 59.0	1.513	2.448	11.6	19.9	151 E	19	90
5 26	13 43.25	−25 57.3	1.559	2.463	13.4	20.0	146 E	19	90
5 31	13 39.67	−25 55.3	1.611	2.479	15.1	20.1	141 E	19	90
6 10	13 35.15	−25 53.2	1.727	2.509	17.9	20.4	131 E	19*	90
6 20	13 33.96	−25 57.0	1.858	2.539	20.0	20.7	121 E	18*	90
6 30	13 35.80	−26 8.9	2.000	2.568	21.4	20.9	113 E	16*	90
7 10	13 40.22	−26 29.7	2.148	2.596	22.3	21.1	104 E	14*	90
7 20	13 46.86	−26 58.9	2.301	2.624	22.6	21.3	97 E	11*	89
7 30	13 55.38	−27 35.6	2.456	2.651	22.5	21.4	90 E	9*	82*
	154229 2002 JN_{97}								
12 23	13 58.48	− 2 32.2	1.524	1.380	39.2	19.7	62 W	41*	38*
1 2	14 12.01	− 3 11.5	1.524	1.491	38.0	19.8	69 W	42*	45*
1 12	14 22.85	− 3 32.3	1.507	1.597	36.8	19.9	77 W	41	52*
1 22	14 30.77	− 3 34.0	1.477	1.698	35.2	19.9	85 W	41	59*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	154229 2002 JN_{97}				*(continuation)*				
	h m	° ′			°	m	°	°	°
2 1	14 35.40	− 3 15.9	1.437	1.794	33.2	19.9	94 W	42	65*
2 11	14 36.33	− 2 37.7	1.391	1.885	30.6	19.9	104 W	42	67
2 21	14 33.19	− 1 39.8	1.346	1.972	27.2	19.8	114 W	43	66
3 2	14 25.74	− 0 24.1	1.308	2.055	22.9	19.7	126 W	45	64
3 7	14 20.43	+ 0 19.0	1.294	2.095	20.5	19.7	132 W	45	64
3 12	14 14.15	+ 1 4.5	1.284	2.134	17.9	19.6	139 W	46	63
3 17	14 7.00	+ 1 51.2	1.280	2.172	15.2	19.6	145 W	47	62
3 22	13 59.14	+ 2 37.8	1.282	2.209	12.4	19.5	151 W	48	61
3 27	13 50.76	+ 3 23.0	1.291	2.245	9.8	19.4	157 W	48	61
4 1	13 42.09	+ 4 5.2	1.307	2.281	7.5	19.4	163 W	49	60
4 6	13 33.37	+ 4 43.2	1.331	2.315	5.9	19.4	166 W	50	59
4 11	13 24.83	+ 5 15.9	1.363	2.349	5.8	19.5	166 W	50	59
4 21	13 9.10	+ 6 3.1	1.450	2.414	8.7	19.8	159 E	51	58
5 1	12 56.16	+ 6 24.7	1.564	2.475	12.6	20.2	148 E	51	58
5 11	12 46.61	+ 6 22.7	1.702	2.534	15.9	20.5	137 E	51	58
5 21	12 40.47	+ 6 1.1	1.859	2.589	18.4	20.9	126 E	51	58
5 31	12 37.47	+ 5 24.1	2.030	2.642	20.1	21.1	116 E	50*	59
6 10	12 37.19	+ 4 35.3	2.210	2.691	21.1	21.4	107 E	48*	59
	14223 Dolby								
12 23	13 58.88	− 8 29.3	3.389	3.020	16.4	20.6	60 W	35*	40*
1 2	14 9.63	− 9 18.4	3.246	3.008	17.6	20.6	67 W	35*	48*
1 12	14 19.55	−10 0.1	3.095	2.996	18.5	20.5	75 W	35	57*
1 22	14 28.44	−10 33.7	2.939	2.982	19.1	20.4	83 W	34	65*
2 1	14 36.04	−10 58.5	2.779	2.968	19.4	20.3	91 W	34	72*
2 11	14 42.11	−11 13.8	2.620	2.952	19.2	20.1	100 W	34	75*
2 21	14 46.35	−11 19.1	2.464	2.936	18.6	20.0	109 W	34	75
3 2	14 48.48	−11 13.7	2.315	2.919	17.4	19.8	118 W	34	75
3 12	14 48.25	−10 57.5	2.177	2.901	15.6	19.6	128 W	34	75
3 22	14 45.52	−10 30.6	2.054	2.882	13.1	19.3	139 W	34	75
4 1	14 40.28	− 9 53.8	1.952	2.862	10.0	19.1	150 W	35	74
4 11	14 32.85	− 9 9.3	1.873	2.841	6.4	18.8	162 W	36	73
4 21	14 23.79	− 8 20.5	1.821	2.820	2.8	18.5	172 W	37	72
4 26	14 18.91	− 7 56.0	1.806	2.809	2.0	18.5	174 W	37	72
5 1	14 13.96	− 7 32.1	1.798	2.797	3.2	18.5	171 E	37	72
5 6	14 9.07	− 7 9.8	1.797	2.786	5.1	18.6	166 E	38	71
5 11	14 4.36	− 6 49.5	1.803	2.774	7.1	18.7	160 E	38	71
5 21	13 55.94	− 6 17.1	1.834	2.750	11.0	18.9	149 E	39	70
5 31	13 49.43	− 5 58.5	1.889	2.725	14.5	19.1	138 E	39	70
6 10	13 45.29	− 5 55.1	1.962	2.699	17.5	19.2	127 E	39	70
6 20	13 43.68	− 6 6.9	2.049	2.672	19.7	19.4	117 E	38*	70
6 30	13 44.58	− 6 32.9	2.145	2.645	21.4	19.5	108 E	36*	71
7 10	13 47.84	− 7 11.5	2.246	2.616	22.5	19.6	100 E	32*	71
7 20	13 53.25	− 8 0.6	2.350	2.587	23.1	19.7	92 E	29*	72
7 30	14 0.62	− 8 58.6	2.452	2.557	23.3	19.8	84 E	26*	72*
8 9	14 9.72	−10 3.5	2.552	2.527	23.0	19.8	77 E	23*	68*
8 19	14 20.41	−11 13.6	2.646	2.496	22.5	19.9	70 E	20*	63*
8 29	14 32.54	−12 27.3	2.734	2.464	21.6	19.9	64 E	18*	57*
9 8	14 45.99	−13 43.1	2.814	2.431	20.5	19.9	58 E	16*	51*
9 18	15 0.69	−14 59.5	2.886	2.398	19.2	19.9	52 E	14*	46*
9 28	15 16.56	−16 15.1	2.948	2.365	17.8	19.8	46 E	13*	40*
10 8	15 33.54	−17 28.2	2.999	2.331	16.1	19.8	40 E	11*	34*
10 18	15 51.61	−18 37.5	3.040	2.296	14.4	19.7	35 E	10*	29*
10 28	16 10.71	−19 41.5	3.071	2.262	12.6	19.7	30 E	8*	23*
11 7	16 30.80	−20 38.7	3.090	2.227	10.6	19.6	24 E	7*	18*
11 17	16 51.84	−21 27.6	3.099	2.191	8.6	19.4	19 E	5*	12*
11 27	17 13.77	−22 6.7	3.098	2.156	6.5	19.3	14 E	3*	7*
12 7	17 36.52	−22 34.8	3.086	2.121	4.4	19.2	10 E	—	2*
12 17	18 0.01	−22 50.5	3.065	2.086	2.3	19.0	5 E	—	—
12 27	18 24.15	−22 52.7	3.034	2.051	0.2	18.7	0 E	—	—
1 6	18 48.81	−22 40.7	2.995	2.016	2.1	18.9	4 W	—	—
1 16	19 13.91	−22 13.7	2.949	1.982	4.3	18.9	9 W	—	2*
	86667 2000 FO_{10}								
12 23	13 59.32	−21 47.3	1.182	1.027	52.3	19.9	56 W	22*	45*
1 2	14 19.34	−23 6.3	1.177	1.108	50.9	20.1	61 W	22*	51*
1 12	14 38.61	−24 12.3	1.150	1.177	50.0	20.1	66 W	21*	58*
1 22	14 56.95	−25 4.8	1.103	1.234	49.4	20.1	72 W	20	64*
2 1	15 14.06	−25 42.8	1.041	1.281	48.9	20.1	78 W	19	71*
2 6	15 22.06	−25 56.0	1.004	1.301	48.6	20.0	82 W	19	75*
2 11	15 29.64	−26 5.1	0.964	1.318	48.2	19.9	85 W	19	79*
2 16	15 36.73	−26 9.7	0.922	1.333	47.8	19.8	88 W	19	82*
2 21	15 43.26	−26 9.4	0.877	1.345	47.3	19.7	92 W	19	86*
2 26	15 49.14	−26 3.8	0.831	1.355	46.6	19.6	96 W	19	90*
3 2	15 54.25	−25 52.0	0.782	1.362	45.8	19.5	100 W	19	90
3 7	15 58.48	−25 33.2	0.733	1.367	44.8	19.3	104 W	19	90
3 12	16 1.69	−25 6.3	0.683	1.370	43.6	19.1	108 W	20	89
3 17	16 3.67	−24 29.6	0.632	1.370	42.0	18.9	113 W	21	88

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		86667 2000 FO_{10}			*(continuation)*				
	h m	° ′			°	m	°	°	°
3 22	16 4.19	−23 40.9	0.581	1.368	40.1	18.7	118 W	21	88
3 27	16 2.94	−22 37.2	0.531	1.364	37.7	18.4	123 W	22	87
4 1	15 59.57	−21 14.5	0.482	1.357	34.7	18.1	129 W	24	85
4 6	15 53.69	−19 27.4	0.435	1.348	31.1	17.8	136 W	26	83
4 11	15 44.81	−17 9.1	0.391	1.337	26.6	17.4	143 W	28	81
4 16	15 32.41	−14 11.1	0.351	1.323	21.2	17.0	152 W	31	78
4 21	15 15.99	−10 24.9	0.316	1.307	15.0	16.5	160 W	35	74
4 26	14 55.32	− 5 45.2	0.287	1.288	9.9	16.1	167 W	39	70
5 1	14 30.59	− 0 16.1	0.266	1.266	11.7	16.0	165 E	45	64
5 3	14 19.74	+ 2 5.8	0.260	1.257	14.8	16.0	161 E	47	62
5 5	14 8.45	+ 4 30.9	0.255	1.247	18.4	16.1	157 E	50	59
5 7	13 56.82	+ 6 57.1	0.252	1.237	22.5	16.1	152 E	52	57
5 9	13 44.97	+ 9 22.2	0.250	1.227	26.7	16.2	147 E	54	55
5 11	13 33.01	+11 43.9	0.250	1.216	31.1	16.3	142 E	57	52
5 13	13 21.05	+14 0.2	0.251	1.205	35.4	16.5	136 E	59	50
5 15	13 9.21	+16 9.5	0.253	1.193	39.7	16.6	131 E	61	48
5 17	12 57.60	+18 10.5	0.256	1.180	43.9	16.7	126 E	63	46
5 19	12 46.30	+20 2.5	0.260	1.168	47.9	16.8	121 E	65	44
5 21	12 35.39	+21 45.3	0.265	1.155	51.8	16.9	116 E	67	42
5 26	12 10.07	+25 22.7	0.281	1.120	60.9	17.3	105 E	70*	39
5 31	11 47.66	+28 11.4	0.298	1.082	69.0	17.6	95 E	69*	36
6 5	11 27.79	+30 23.2	0.316	1.041	76.5	17.9	86 E	65*	34
6 10	11 9.71	+32 8.8	0.335	0.996	83.6	18.1	77 E	59*	32
6 12	11 2.79	+32 45.6	0.342	0.978	86.4	18.3	74 E	56*	31*
6 14	10 55.96	+33 20.0	0.349	0.959	89.2	18.4	71 E	54*	31*
6 16	10 49.16	+33 52.1	0.356	0.939	92.1	18.5	67 E	51*	30*
6 18	10 42.33	+34 22.3	0.362	0.919	94.9	18.6	64 E	49*	29*
6 20	10 35.40	+34 50.6	0.369	0.898	97.9	18.7	61 E	46*	28*
6 22	10 28.30	+35 17.2	0.375	0.877	100.9	18.9	58 E	44*	26*
6 24	10 20.98	+35 41.9	0.382	0.855	103.9	19.0	55 E	42*	25*
6 26	10 13.37	+36 4.6	0.388	0.832	107.1	19.1	51 E	39*	23*
6 28	10 5.41	+36 25.0	0.395	0.809	110.5	19.3	48 E	37*	21*
6 30	9 57.04	+36 42.7	0.401	0.786	113.9	19.5	45 E	34*	19*
7 5	9 34.16	+37 11.1	0.420	0.724	123.2	20.1	37 E	28*	13*
7 10	9 8.54	+37 6.5	0.444	0.659	133.4	21.0	28 E	21*	7*
7 15	8 41.38	+36 14.4	0.477	0.592	143.7	22.2	20 E	14*	—
7 20	8 15.39	+34 24.7	0.525	0.524	151.4	23.5	14 E	7*	—
		66407 1999 LQ_{28}							
12 23	13 59.73	+ 8 19.0	1.173	1.204	48.9	21.5	67 W	51*	31*
1 2	14 31.56	+ 7 34.8	1.150	1.223	48.8	21.5	69 W	51*	34*
1 12	15 2.15	+ 6 59.9	1.125	1.241	48.8	21.5	72 W	51*	38*
1 22	15 31.43	+ 6 35.6	1.096	1.258	48.8	21.4	74 W	51*	42*
2 1	15 59.28	+ 6 23.0	1.064	1.273	48.9	21.4	77 W	51*	45*
2 11	16 25.62	+ 6 21.8	1.027	1.288	48.9	21.3	79 W	51*	49*
2 21	16 50.38	+ 6 31.2	0.986	1.301	48.9	21.3	82 W	51*	51*
3 2	17 13.41	+ 6 49.9	0.939	1.312	48.9	21.2	86 W	51*	54*
3 12	17 34.61	+ 7 15.4	0.888	1.322	48.7	21.1	89 W	52*	55*
3 22	17 53.83	+ 7 45.0	0.832	1.330	48.5	20.9	93 W	52*	56*
4 1	18 10.81	+ 8 14.7	0.772	1.336	47.9	20.8	97 W	53*	56
4 11	18 25.26	+ 8 38.7	0.708	1.340	47.1	20.6	102 W	53*	55
4 21	18 36.77	+ 8 49.8	0.641	1.342	45.7	20.3	107 W	54*	55
4 26	18 41.21	+ 8 47.1	0.607	1.342	44.7	20.2	110 W	54	55
5 1	18 44.65	+ 8 36.5	0.572	1.342	43.5	20.0	113 W	54	55
5 6	18 46.97	+ 8 15.7	0.538	1.341	42.1	19.8	117 W	53	56
5 11	18 48.06	+ 7 42.0	0.504	1.340	40.3	19.6	121 W	53	56
5 16	18 47.73	+ 6 52.1	0.470	1.339	38.1	19.4	125 W	52	57
5 21	18 45.79	+ 5 41.8	0.438	1.337	35.4	19.2	130 W	51	58
5 26	18 42.06	+ 4 6.4	0.407	1.334	32.2	18.9	135 W	49	60
5 31	18 36.38	+ 2 0.5	0.378	1.331	28.4	18.7	141 W	47	62
6 5	18 28.61	− 0 40.4	0.353	1.327	23.9	18.4	148 W	44	65
6 10	18 18.70	− 3 59.8	0.331	1.323	18.7	18.1	155 W	41	68
6 15	18 6.67	− 7 57.4	0.314	1.319	13.2	17.8	163 W	37	72
6 20	17 52.78	−12 28.3	0.302	1.314	8.5	17.5	169 E	33	76
6 22	17 46.81	−14 23.6	0.299	1.312	7.6	17.4	170 E	31	78
6 24	17 40.65	−16 21.4	0.297	1.310	7.8	17.4	170 E	29	80
6 26	17 34.37	−18 20.7	0.296	1.307	9.1	17.4	168 E	27	82
6 28	17 28.02	−20 20.4	0.296	1.305	11.1	17.5	166 E	25	84
6 30	17 21.64	−22 19.3	0.297	1.303	13.4	17.6	163 E	23	86
7 2	17 15.30	−24 16.4	0.298	1.300	15.9	17.7	159 E	21	88
7 4	17 9.04	−26 10.8	0.301	1.298	18.5	17.8	156 E	19	90
7 6	17 2.91	−28 1.6	0.305	1.295	21.0	17.9	153 E	17	88
7 8	16 56.98	−29 48.4	0.309	1.293	23.5	18.0	149 E	15	86
7 10	16 51.27	−31 30.5	0.315	1.290	26.0	18.1	146 E	13	84
7 15	16 38.26	−35 24.2	0.331	1.283	31.6	18.4	139 E	10	81
7 20	16 27.46	−38 46.7	0.350	1.276	36.6	18.6	132 E	6	77
7 25	16 19.18	−41 41.1	0.372	1.268	40.8	18.9	125 E	3*	74

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		66407 1999 LQ_{28}			*(continued)*				
	h m	° ′			°	m	°	°	°
7 30	16 13.55	−44 11.9	0.396	1.260	44.3	19.1	120 E	1*	72
8 4	16 10.49	−46 23.5	0.421	1.252	47.3	19.3	115 E	—	70
8 9	16 9.88	−48 19.9	0.446	1.243	49.7	19.5	111 E	—	68
8 14	16 11.62	−50 4.1	0.471	1.235	51.8	19.6	107 E	—	66
8 19	16 15.59	−51 38.3	0.496	1.226	53.4	19.8	103 E	—	64
8 24	16 21.72	−53 4.3	0.520	1.217	54.9	19.9	100 E	—	63
8 29	16 29.89	−54 23.1	0.543	1.207	56.0	20.0	98 E	—	62*
9 3	16 40.01	−55 35.0	0.564	1.198	57.0	20.1	95 E	—	60*
9 8	16 52.04	−56 40.0	0.584	1.189	57.9	20.2	93 E	—	59*
9 13	17 5.93	−57 37.6	0.602	1.179	58.6	20.3	91 E	—	58*
9 18	17 21.67	−58 27.2	0.618	1.170	59.2	20.3	89 E	—	57*
9 23	17 39.21	−59 7.9	0.633	1.160	59.8	20.4	87 E	—	56*
9 28	17 58.43	−59 38.5	0.645	1.151	60.3	20.4	86 E	—	55*
10 3	18 19.17	−59 57.6	0.656	1.142	60.7	20.4	84 E	—	55*
10 8	18 41.21	−60 3.6	0.664	1.133	61.2	20.5	83 E	—	55*
10 13	19 4.32	−59 55.1	0.671	1.124	61.6	20.5	82 E	—	55*
10 18	19 28.19	−59 30.7	0.675	1.115	62.0	20.5	81 E	—	55*
10 23	19 52.47	−58 49.2	0.677	1.107	62.4	20.5	81 E	—	56*
10 28	20 16.78	−57 49.7	0.678	1.100	62.8	20.5	80 E	—	57*
11 2	20 40.78	−56 31.6	0.677	1.092	63.2	20.5	79 E	—	58*
11 7	21 4.19	−54 54.2	0.674	1.086	63.6	20.5	79 E	—	60*
11 12	21 26.80	−52 57.4	0.670	1.080	64.0	20.5	79 E	—	62*
11 17	21 48.51	−50 41.2	0.665	1.074	64.4	20.4	78 E	—	64*
11 22	22 9.25	−48 5.9	0.659	1.069	64.7	20.4	78 E	—	66*
11 27	22 28.99	−45 11.8	0.653	1.065	65.1	20.4	78 E	—	68*
12 2	22 47.76	−41 59.5	0.646	1.061	65.4	20.4	78 E	3	70*
12 7	23 5.63	−38 29.8	0.640	1.058	65.6	20.4	78 E	7	71*
12 12	23 22.70	−34 43.4	0.634	1.056	65.8	20.4	78 E	10	72*
12 17	23 39.07	−30 41.8	0.629	1.055	66.0	20.3	78 E	14	72*
12 22	23 54.86	−26 26.8	0.626	1.055	66.0	20.3	78 E	19	71*
12 27	0 10.16	−22 0.4	0.624	1.055	66.0	20.3	79 E	23	69*
1 1	0 25.06	−17 25.4	0.624	1.056	65.9	20.3	79 E	28	66*
1 6	0 39.66	−12 44.5	0.626	1.058	65.7	20.3	79 E	32	62*
1 11	0 54.09	− 8 0.9	0.631	1.061	65.5	20.3	79 E	37	58*
1 16	1 8.44	− 3 17.8	0.638	1.064	65.1	20.4	79 E	42	54*
		434167 2002 TQ_{65}							
12 23	13 59.85	+ 6 53.2	2.539	2.328	22.8	20.8	66 W	50*	32*
1 2	14 11.44	+ 5 52.6	2.476	2.384	23.2	20.9	73 W	51*	39*
1 12	14 21.29	+ 5 5.0	2.406	2.440	23.4	20.8	80 W	50	47*
1 22	14 29.19	+ 4 30.2	2.330	2.495	23.2	20.8	88 W	50	53*
2 1	14 34.88	+ 4 7.9	2.251	2.550	22.6	20.8	96 W	49	58*
2 11	14 38.10	+ 3 57.0	2.172	2.605	21.5	20.7	105 W	49	60
2 21	14 38.61	+ 3 56.1	2.096	2.659	19.8	20.6	114 W	49	60
3 2	14 36.24	+ 4 3.1	2.029	2.713	17.6	20.5	124 W	49	60
3 12	14 31.00	+ 4 14.7	1.976	2.766	14.8	20.4	135 W	49	60
3 22	14 23.12	+ 4 26.9	1.942	2.819	11.6	20.3	145 W	49	60
4 1	14 13.13	+ 4 35.2	1.932	2.871	8.3	20.2	156 W	50	59
4 11	14 1.90	+ 4 35.2	1.949	2.923	5.7	20.1	163 W	50	59
4 21	13 50.42	+ 4 23.9	1.996	2.974	5.4	20.2	164 E	49	60
5 1	13 39.70	+ 3 59.6	2.072	3.024	7.6	20.4	157 E	49	60
5 11	13 30.55	+ 3 22.4	2.176	3.073	10.3	20.7	147 E	48	61
5 21	13 23.46	+ 2 34.0	2.304	3.122	12.7	20.9	137 E	48	61
5 31	13 18.65	+ 1 36.1	2.452	3.170	14.8	21.2	127 E	47	62
6 10	13 16.12	+ 0 30.9	2.616	3.217	16.2	21.4	118 E	45*	63
		38683 2000 QQ_7							
12 23	14 0.89	−14 49.2	3.301	2.891	16.6	20.4	57 W	29*	43*
1 2	14 12.54	−15 55.3	3.166	2.882	17.9	20.3	64 W	29*	51*
1 12	14 23.40	−16 55.8	3.022	2.872	19.0	20.3	72 W	28	59*
1 22	14 33.28	−17 50.1	2.872	2.861	19.8	20.2	80 W	27	68*
2 1	14 41.93	−18 37.6	2.717	2.850	20.2	20.1	87 W	26	76*
2 11	14 49.07	−19 17.8	2.562	2.837	20.2	19.9	96 W	26	83*
2 21	14 54.41	−19 50.0	2.408	2.823	19.8	19.8	105 W	25	84
3 2	14 57.61	−20 13.1	2.259	2.809	18.8	19.6	114 W	25	84
3 12	14 58.38	−20 26.1	2.119	2.793	17.3	19.4	123 W	25	84
3 22	14 56.48	−20 27.7	1.992	2.777	15.0	19.1	134 W	25	84
4 1	14 51.84	−20 16.4	1.882	2.759	12.1	18.9	145 W	25	84
4 11	14 44.68	−19 51.3	1.794	2.741	8.5	18.6	156 W	25	84
4 21	14 35.51	−19 12.8	1.731	2.722	4.4	18.4	168 W	26	83
4 26	14 30.44	−18 49.1	1.710	2.712	2.4	18.2	173 W	26	83
5 1	14 25.22	−18 23.0	1.695	2.702	1.4	18.1	176 E	27	82
5 6	14 20.00	−17 55.3	1.689	2.691	3.0	18.2	172 E	27	82
5 11	14 14.93	−17 26.7	1.689	2.681	5.1	18.3	166 E	28	81
5 16	14 10.13	−16 58.0	1.695	2.670	7.3	18.4	160 E	28	81
5 21	14 5.71	−16 30.0	1.709	2.659	9.4	18.5	155 E	28	81
5 26	14 1.80	−16 3.4	1.729	2.648	11.4	18.6	149 E	29	80
5 31	13 58.48	−15 39.0	1.754	2.636	13.3	18.7	143 E	29	80
6 10	13 53.77	−14 59.0	1.819	2.613	16.7	18.9	132 E	30	79
6 20	13 51.81	−14 32.7	1.900	2.588	19.4	19.0	122 E	30*	79

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
		38683 2000 QQ_7			*(continuation)*				
6 30	13 52.58	−14 21.3	1.992	2.563	21.4	19.2	113 E	29*	78
7 10	13 55.92	−14 24.4	2.091	2.537	22.9	19.3	104 E	26*	78
7 20	14 1.58	−14 40.5	2.193	2.510	23.7	19.4	96 E	24*	79
7 30	14 9.35	−15 8.1	2.297	2.483	24.1	19.5	88 E	21*	78*
8 9	14 18.98	−15 45.0	2.398	2.455	24.1	19.6	81 E	19*	74*
8 19	14 30.28	−16 29.1	2.495	2.426	23.7	19.6	74 E	17*	68*
8 29	14 43.11	−17 18.6	2.587	2.397	23.0	19.7	68 E	15*	62*
9 8	14 57.32	−18 11.3	2.672	2.367	22.0	19.7	62 E	14*	56*
9 18	15 12.83	−19 5.6	2.750	2.336	20.8	19.7	56 E	13*	50*
9 28	15 29.56	−19 59.4	2.818	2.305	19.4	19.6	50 E	11*	44*
10 8	15 47.42	−20 51.1	2.877	2.273	17.9	19.6	44 E	10*	38*
10 18	16 6.36	−21 38.7	2.926	2.241	16.2	19.6	39 E	9*	33*
10 28	16 26.33	−22 20.6	2.966	2.209	14.5	19.5	34 E	8*	27*
11 7	16 47.26	−22 55.1	2.995	2.176	12.6	19.4	29 E	7*	22*
11 17	17 9.08	−23 20.5	3.013	2.143	10.6	19.3	24 E	6*	17*
11 27	17 31.70	−23 35.2	3.022	2.111	8.6	19.2	19 E	4*	12*
12 7	17 55.04	−23 37.9	3.021	2.078	6.5	19.1	14 E	2*	7*
12 17	18 18.98	−23 27.2	3.011	2.045	4.4	18.9	9 E	—	2*
12 27	18 43.42	−23 2.3	2.991	2.013	2.2	18.8	5 E	—	—
1 6	19 8.22	−22 22.5	2.964	1.981	0.1	18.5	0 E	—	—
1 16	19 33.27	−21 27.2	2.929	1.949	2.1	18.6	4 W	—	—
		162980 2001 RR_{17}							
12 23	14 1.04	−31 46.7	0.843	0.831	72.0	18.4	53 W	12*	47*
12 28	14 31.71	−29 58.3	0.858	0.814	72.0	18.4	52 W	14*	45*
1 2	15 1.39	−27 51.0	0.877	0.802	71.5	18.4	51 W	15*	43*
1 7	15 29.92	−25 30.0	0.900	0.795	70.6	18.4	50 W	17*	41*
1 12	15 57.23	−23 0.1	0.926	0.794	69.2	18.5	49 W	19*	40*
1 17	16 23.28	−20 26.1	0.956	0.799	67.5	18.5	49 W	21*	39*
1 22	16 48.07	−17 51.5	0.989	0.809	65.5	18.5	48 W	23*	38*
1 27	17 11.59	−15 19.2	1.024	0.825	63.3	18.6	48 W	24*	37*
2 1	17 33.87	−12 51.4	1.060	0.845	61.0	18.6	49 W	26*	36*
2 6	17 54.94	−10 29.2	1.097	0.869	58.8	18.7	49 W	27*	36*
2 11	18 14.86	− 8 13.2	1.135	0.897	56.7	18.8	49 W	29*	36*
2 21	18 51.44	− 4 0.5	1.208	0.961	52.7	19.0	51 W	31*	36*
3 2	19 24.00	− 0 11.6	1.276	1.032	49.5	19.1	52 W	33*	37*
3 12	19 52.96	+ 3 16.6	1.336	1.108	46.8	19.3	54 W	35*	38*
3 22	20 18.72	+ 6 27.7	1.385	1.185	44.8	19.5	57 W	37*	40*
4 1	20 41.56	+ 9 24.6	1.422	1.262	43.2	19.6	60 W	39*	41*
4 11	21 1.71	+12 9.1	1.446	1.338	42.0	19.8	63 W	41*	43*
4 21	21 19.30	+14 42.9	1.457	1.412	41.0	19.9	67 W	43*	44*
5 1	21 34.35	+17 6.5	1.456	1.483	40.1	20.0	71 W	46*	45*
5 11	21 46.82	+19 19.8	1.442	1.552	39.2	20.0	76 W	50*	44*
5 21	21 56.56	+21 21.9	1.417	1.618	38.2	20.0	82 W	54*	43
5 31	22 3.29	+23 10.7	1.381	1.681	37.1	20.0	88 W	59*	41
6 5	22 5.43	+23 59.0	1.361	1.712	36.3	20.0	91 W	62*	40
6 10	22 6.71	+24 42.6	1.339	1.741	35.5	20.0	94 W	64*	39
6 15	22 7.08	+25 20.7	1.315	1.770	34.6	20.0	98 W	67*	39
6 20	22 6.47	+25 52.5	1.291	1.798	33.6	19.9	102 W	69*	38
6 25	22 4.87	+26 16.8	1.267	1.825	32.4	19.9	106 W	71*	38
6 30	22 2.25	+26 32.5	1.242	1.852	31.1	19.8	110 W	72	37
7 5	21 58.63	+26 38.2	1.219	1.877	29.7	19.8	114 W	72	37
7 10	21 54.02	+26 32.8	1.196	1.902	28.1	19.7	118 W	72	37
7 15	21 48.50	+26 14.8	1.176	1.926	26.4	19.7	123 W	71	38
7 20	21 42.16	+25 43.1	1.159	1.949	24.5	19.6	127 W	71	38
7 25	21 35.15	+24 56.7	1.145	1.972	22.7	19.6	132 W	70	39
7 30	21 27.69	+23 55.3	1.136	1.994	20.8	19.5	136 W	69	40
8 4	21 19.99	+22 39.1	1.131	2.015	19.0	19.5	140 W	68	41
8 9	21 12.28	+21 9.1	1.132	2.035	17.5	19.4	143 E	66	43
8 14	21 4.81	+19 27.1	1.139	2.054	16.3	19.4	145 E	64	45
8 19	20 57.79	+17 35.2	1.152	2.073	15.6	19.4	147 E	63	46
8 24	20 51.42	+15 36.3	1.172	2.091	15.4	19.5	147 E	61	48
8 29	20 45.85	+13 33.4	1.198	2.109	15.8	19.6	145 E	59	50
9 3	20 41.18	+11 29.6	1.231	2.125	16.6	19.7	143 E	56	53
9 8	20 37.45	+ 9 27.3	1.270	2.141	17.7	19.8	140 E	54	55
9 13	20 34.68	+ 7 28.8	1.315	2.156	18.9	19.9	136 E	52	57
9 18	20 32.88	+ 5 35.8	1.365	2.171	20.1	20.1	132 E	51	58
9 23	20 32.01	+ 3 49.6	1.420	2.184	21.3	20.2	128 E	49	60
9 28	20 32.03	+ 2 11.1	1.480	2.197	22.4	20.3	123 E	47	62
10 8	20 34.47	− 0 41.6	1.610	2.221	24.1	20.6	115 E	44	65
10 18	20 39.70	− 3 2.1	1.750	2.242	25.3	20.8	106 E	42	67
10 28	20 47.28	− 4 52.1	1.897	2.260	25.8	21.0	98 E	40	69*
11 7	20 56.73	− 6 14.7	2.048	2.276	25.8	21.2	90 E	39	66*
11 17	21 7.71	− 7 13.3	2.198	2.288	25.4	21.4	82 E	38	62*
11 27	21 19.92	− 7 50.7	2.345	2.298	24.5	21.5	75 E	37	55*
		159465 2000 QJ_2							
12 23	14 1.12	−32 19.9	3.430	2.951	15.5	20.8	53 W	12*	47*
1 2	14 13.71	−33 57.1	3.326	2.959	16.7	20.8	60 W	11*	54*
1 12	14 25.47	−35 31.9	3.213	2.965	17.7	20.7	67 W	9	61*
1 22	14 36.15	−37 4.1	3.092	2.971	18.5	20.7	74 W	8	67*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
		159465 2000 QJ_2			*(continuation)*				
2 1	14 45.48	−38 33.4	2.965	2.976	19.1	20.6	81 W	6	73*
2 11	14 53.13	−39 59.1	2.835	2.979	19.3	20.5	89 W	5	76*
2 21	14 58.73	−41 20.3	2.704	2.982	19.2	20.4	96 W	4	75
2 26	15 0.64	−41 58.8	2.639	2.983	19.0	20.3	101 W	3	74
3 2	15 1.87	−42 35.3	2.575	2.984	18.7	20.3	105 W	2	73
3 7	15 2.40	−43 9.7	2.512	2.984	18.3	20.2	109 W	2	73
3 12	15 2.18	−43 41.4	2.452	2.985	17.8	20.2	113 W	1	72
3 22	14 59.37	−44 34.9	2.338	2.984	16.5	20.0	122 W	—	71
4 1	14 53.33	−45 10.7	2.238	2.983	14.8	19.8	130 W	—	71
4 11	14 44.37	−45 23.1	2.155	2.981	12.9	19.7	139 W	—	71
4 16	14 39.01	−45 18.9	2.121	2.980	11.9	19.6	142 W	—	71
4 21	14 33.21	−45 7.2	2.093	2.978	10.9	19.6	146 W	—	71
4 26	14 27.15	−44 47.7	2.070	2.976	10.1	19.5	149 W	—	71
5 1	14 21.01	−44 20.4	2.054	2.974	9.6	19.5	151 E	1	72
5 6	14 14.96	−43 45.9	2.045	2.971	9.3	19.4	152 E	1	72
5 11	14 9.17	−43 4.8	2.042	2.969	9.4	19.4	151 E	2	73
5 16	14 3.78	−42 18.0	2.045	2.966	9.7	19.5	150 E	3	74
5 21	13 58.93	−41 26.6	2.055	2.962	10.4	19.5	148 E	4	75
5 26	13 54.71	−40 31.8	2.071	2.959	11.3	19.5	145 E	4	75
5 31	13 51.21	−39 34.9	2.093	2.955	12.3	19.6	142 E	5	76
6 5	13 48.46	−38 37.3	2.121	2.952	13.4	19.7	138 E	6	77
6 10	13 46.47	−37 40.0	2.154	2.947	14.4	19.7	134 E	7	78
6 15	13 45.24	−36 44.1	2.192	2.943	15.5	19.8	129 E	8*	79
6 20	13 44.75	−35 50.3	2.234	2.938	16.4	19.9	125 E	9*	80
6 25	13 44.98	−34 59.3	2.279	2.933	17.3	19.9	121 E	9*	81
6 30	13 45.89	−34 11.7	2.329	2.928	18.1	20.0	117 E	9*	82
7 10	13 49.58	−32 47.8	2.435	2.917	19.3	20.1	108 E	9*	83
7 20	13 55.51	−31 39.5	2.549	2.905	20.1	20.3	100 E	8*	84
7 30	14 3.37	−30 46.6	2.667	2.893	20.5	20.4	92 E	7*	83*
8 9	14 12.88	−30 7.8	2.787	2.879	20.5	20.4	85 E	6*	76*
8 19	14 23.83	−29 41.2	2.905	2.864	20.2	20.5	78 E	5*	69*
8 29	14 36.04	−29 24.9	3.019	2.848	19.5	20.6	71 E	4*	63*
9 8	14 49.34	−29 16.7	3.127	2.831	18.6	20.6	64 E	4*	56*
9 18	15 3.62	−29 14.5	3.228	2.814	17.5	20.6	57 E	3*	50*
9 28	15 18.77	−29 16.4	3.320	2.795	16.1	20.6	51 E	2*	44*
10 8	15 34.71	−29 20.6	3.400	2.776	14.6	20.6	44 E	2*	38*
10 18	15 51.34	−29 25.3	3.469	2.755	12.9	20.6	38 E	1*	32*
10 28	16 8.61	−29 28.8	3.525	2.734	11.1	20.5	32 E	—	26*
11 7	16 26.42	−29 29.8	3.568	2.712	9.2	20.4	26 E	—	20*
11 17	16 44.70	−29 26.8	3.596	2.688	7.2	20.4	20 E	—	14*
11 27	17 3.38	−29 18.6	3.610	2.664	5.2	20.2	14 E	—	8*
12 7	17 22.35	−29 4.2	3.608	2.639	3.3	20.1	9 E	—	3*
12 17	17 41.55	−28 42.5	3.592	2.614	2.0	20.0	5 E	—	—
12 27	18 0.87	−28 12.9	3.560	2.587	2.7	20.0	7 W	—	1*
1 6	18 20.21	−27 34.7	3.514	2.560	4.5	20.1	12 W	—	6*
1 16	18 39.49	−26 47.3	3.453	2.531	6.6	20.1	17 W	—	11*
		138127 2000 EE_{14}							
12 23	14 1.33	−20 55.3	0.786	0.842	74.3	18.8	55 W	23*	45*
12 28	14 12.09	−19 53.2	0.780	0.878	72.5	18.8	58 W	24*	47*
1 2	14 23.73	−18 50.2	0.769	0.909	71.2	18.8	61 W	26*	49*
1 7	14 36.18	−17 44.3	0.753	0.936	70.2	18.8	64 W	27*	51*
1 12	14 49.39	−16 33.6	0.734	0.959	69.5	18.8	66 W	28*	53*
1 17	15 3.39	−15 16.2	0.712	0.978	69.1	18.7	68 W	30*	55*
1 22	15 18.20	−13 50.2	0.687	0.993	69.0	18.7	70 W	31*	56*
1 27	15 33.91	−12 13.4	0.660	1.004	69.0	18.6	72 W	33*	57*
2 1	15 50.60	−10 23.8	0.632	1.011	69.3	18.6	74 W	34*	58*
2 6	16 8.44	− 8 19.5	0.604	1.014	69.9	18.5	75 W	36*	58*
2 11	16 27.59	− 5 58.7	0.575	1.014	70.7	18.4	76 W	39*	57*
2 16	16 48.28	− 3 20.2	0.548	1.009	71.9	18.3	76 W	41*	56*
2 21	17 10.73	− 0 23.3	0.523	1.001	73.5	18.3	76 W	43*	54*
2 26	17 35.14	+ 2 50.9	0.501	0.989	75.4	18.2	75 W	46*	51*
3 2	18 1.74	+ 6 18.9	0.483	0.973	77.9	18.2	74 W	48*	48*
3 7	18 30.68	+ 9 54.2	0.471	0.953	80.7	18.2	71 W	50*	44*
3 12	19 1.99	+13 27.1	0.464	0.929	84.0	18.2	68 W	50*	40*
3 14	19 15.15	+14 49.0	0.463	0.918	85.4	18.2	67 W	50*	38*
3 16	19 28.65	+16 7.7	0.463	0.906	86.8	18.3	65 W	50*	37*
3 18	19 42.45	+17 22.5	0.465	0.894	88.3	18.3	64 W	50*	35*
3 20	19 56.51	+18 32.5	0.467	0.881	89.8	18.3	62 W	49*	33*
3 22	20 10.80	+19 37.0	0.471	0.867	91.3	18.4	60 W	48*	32*
3 27	20 47.19	+21 50.1	0.487	0.830	95.0	18.5	56 W	45*	28*
4 1	21 23.88	+23 17.6	0.510	0.788	98.4	18.7	51 W	42*	24*
4 6	22 0.08	+23 57.3	0.541	0.742	101.4	18.8	47 W	38*	22*
4 11	22 35.26	+23 51.5	0.581	0.690	103.7	18.9	42 W	33*	19*
4 13	22 48.97	+23 37.7	0.600	0.669	104.3	19.0	40 W	31*	19*
4 15	23 2.48	+23 17.8	0.620	0.646	104.8	19.0	38 W	29*	18*
4 17	23 15.80	+22 52.6	0.642	0.622	105.1	19.0	37 W	28*	17*

138127 2000 EE_{14} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 19	23 28.94	+22 22.4	0.665	0.598	105.2	19.0	35 W	26*	17*
4 21	23 41.94	+21 47.7	0.691	0.573	104.9	19.0	33 W	24*	17*
4 23	23 54.83	+21 9.2	0.718	0.548	104.4	18.9	32 W	22*	16*
4 25	0 7.68	+20 27.5	0.747	0.522	103.5	18.9	30 W	20*	16*
4 27	0 20.54	+19 43.1	0.779	0.495	102.1	18.8	29 W	18*	16*
4 29	0 33.48	+18 56.7	0.812	0.469	100.2	18.6	27 W	16*	15*
5 1	0 46.60	+18 9.2	0.849	0.442	97.6	18.5	26 W	14*	15*
5 3	0 59.99	+17 21.4	0.887	0.416	94.3	18.3	24 W	12*	14*
5 5	1 13.76	+16 34.3	0.928	0.391	90.2	18.1	23 W	10*	14*
5 7	1 28.02	+15 49.2	0.972	0.368	85.1	17.8	21 W	8*	13*
5 9	1 42.86	+15 7.4	1.017	0.347	78.9	17.6	20 W	5*	12*
5 11	1 58.38	+14 30.5	1.063	0.329	71.7	17.3	18 W	3*	11*
5 13	2 14.57	+14 0.0	1.110	0.317	63.6	17.1	16 W	1*	10*
5 15	2 31.38	+13 37.1	1.156	0.310	54.9	16.9	15 W	—	8*
5 17	2 48.65	+13 22.7	1.200	0.310	46.2	16.7	13 W	—	7*
5 19	3 6.13	+13 16.6	1.241	0.316	38.1	16.6	11 W	—	5*
5 21	3 23.58	+13 17.8	1.279	0.328	31.1	16.5	10 W	—	3*
5 23	3 40.78	+13 25.1	1.313	0.345	25.6	16.6	8 W	—	1*
5 25	3 57.57	+13 36.9	1.343	0.366	21.9	16.6	8 W	—	—
5 27	4 13.85	+13 51.6	1.371	0.389	19.7	16.7	7 W	—	—
5 29	4 29.57	+14 8.0	1.397	0.414	18.9	16.9	8 E	—	—
5 31	4 44.73	+14 25.2	1.421	0.440	18.8	17.0	8 E	—	—
6 2	4 59.33	+14 42.5	1.443	0.467	19.2	17.2	9 E	—	1*
6 4	5 13.40	+14 59.2	1.465	0.493	19.7	17.4	9 E	—	3*
6 6	5 26.95	+15 15.1	1.486	0.520	20.3	17.5	10 E	—	4*
6 8	5 40.02	+15 29.9	1.506	0.546	20.8	17.7	11 E	—	5*
6 10	5 52.64	+15 43.4	1.527	0.571	21.2	17.8	12 E	—	6*
6 15	6 22.39	+16 10.9	1.575	0.632	21.8	18.1	13 E	—	7*
6 20	6 49.85	+16 29.1	1.622	0.689	21.9	18.4	15 E	—	9*
6 25	7 15.36	+16 38.5	1.668	0.740	21.5	18.6	16 E	—	9*
6 30	7 39.18	+16 39.6	1.712	0.787	21.0	18.8	16 E	—	10*
7 5	8 1.53	+16 33.4	1.753	0.829	20.2	18.9	16 E	—	10*
7 10	8 22.64	+16 20.6	1.793	0.866	19.4	19.0	16 E	—	10*
7 15	8 42.68	+16 2.0	1.829	0.899	18.4	19.1	16 E	—	10*
7 20	9 1.79	+15 38.2	1.862	0.928	17.5	19.2	16 E	—	10*
7 25	9 20.13	+15 9.7	1.892	0.952	16.5	19.3	15 E	—	9*
7 30	9 37.79	+14 37.0	1.918	0.972	15.6	19.3	15 E	1*	9*
8 9	10 11.54	+13 20.4	1.957	1.001	13.8	19.4	14 E	1*	7*
8 19	10 43.83	+11 50.6	1.980	1.014	12.2	19.3	12 E	2*	5*
8 29	11 15.32	+10 8.8	1.984	1.011	11.1	19.3	11 E	2*	4*
9 8	11 46.63	+ 8 15.2	1.969	0.993	10.4	19.2	10 E	3*	2*
9 18	12 18.39	+ 6 9.2	1.934	0.960	10.4	19.1	10 E	3*	—
9 28	12 51.29	+ 3 49.2	1.880	0.910	11.1	19.0	10 E	4*	—
10 8	13 26.15	+ 1 12.2	1.805	0.843	12.5	18.8	11 E	5*	—
10 13	13 44.63	− 0 14.3	1.761	0.803	13.5	18.6	11 E	5*	—
10 18	14 4.02	− 1 47.3	1.710	0.758	14.8	18.5	11 E	5*	—
10 23	14 24.51	− 3 28.0	1.655	0.708	16.3	18.3	12 E	6*	—
10 28	14 46.30	− 5 18.4	1.593	0.653	18.3	18.1	12 E	6*	—
11 2	15 9.65	− 7 20.7	1.524	0.594	20.9	17.9	12 E	6*	—
11 7	15 34.82	− 9 38.7	1.448	0.531	24.7	17.7	13 E	6*	1*
11 12	16 2.03	−12 17.9	1.361	0.464	30.6	17.4	14 E	7*	3*
11 17	16 31.20	−15 26.5	1.260	0.399	40.1	17.2	15 E	6*	5*
11 19	16 43.25	−16 52.8	1.215	0.375	45.4	17.1	16 E	6*	7*
11 21	16 55.31	−18 26.7	1.167	0.353	51.8	17.1	16 E	6*	8*
11 23	17 7.16	−20 9.0	1.115	0.335	59.4	17.1	17 E	5*	9*
11 25	17 18.46	−22 0.3	1.061	0.320	68.1	17.2	18 E	4*	10*
11 27	17 28.78	−24 0.5	1.004	0.312	77.9	17.3	18 E	3*	11*
11 29	17 37.65	−26 8.9	0.947	0.309	88.2	17.5	18 E	2*	12*
12 1	17 44.62	−28 23.3	0.890	0.313	98.5	17.9	18 E	—	12*
12 3	17 49.35	−30 40.9	0.836	0.323	108.2	18.3	18 E	—	12*
12 5	17 51.69	−32 58.2	0.786	0.339	116.7	18.8	18 E	—	12*
12 7	17 51.64	−35 11.4	0.740	0.359	123.8	19.4	18 E	—	11*
12 9	17 49.33	−37 17.3	0.699	0.381	129.1	19.9	17 E	—	10*
12 11	17 45.00	−39 12.8	0.663	0.406	132.7	20.2	18 E	—	8*
12 13	17 38.94	−40 55.5	0.632	0.432	134.7	20.5	18 E	—	6*
12 15	17 31.47	−42 23.6	0.605	0.458	135.2	20.6	19 E	—	4*
12 17	17 22.97	−43 36.1	0.581	0.485	134.6	20.5	21 W	—	7*
12 19	17 13.79	−44 32.5	0.561	0.511	133.2	20.4	22 W	—	11*
12 21	17 4.29	−45 13.1	0.543	0.537	131.2	20.3	24 W	—	14*
12 23	16 54.80	−45 38.8	0.527	0.563	128.9	20.1	26 W	—	17*
12 25	16 45.59	−45 50.6	0.513	0.588	126.4	19.9	29 W	—	20*
12 27	16 36.87	−45 50.0	0.500	0.613	123.8	19.7	31 W	—	23*
12 29	16 28.81	−45 38.5	0.489	0.636	121.3	19.5	34 W	—	26*
12 31	16 21.51	−45 17.6	0.478	0.659	118.8	19.3	36 W	—	29*
1 2	16 15.03	−44 48.7	0.467	0.682	116.4	19.2	38 W	—	31*
1 4	16 9.37	−44 13.0	0.457	0.703	114.2	19.1	41 W	—	34*
1 6	16 4.53	−43 31.7	0.448	0.724	112.0	18.9	43 W	—	36*
1 8	16 0.47	−42 45.4	0.438	0.744	109.9	18.8	45 W	—	39*
1 10	15 57.15	−41 54.9	0.428	0.763	108.0	18.7	48 W	1*	41*

138127 2000 EE_{14} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 12	15 54.51	−41 0.6	0.419	0.781	106.1	18.6	50 W	2*	44*
1 14	15 52.50	−40 2.8	0.409	0.799	104.4	18.5	52 W	3*	46*
1 16	15 51.06	−39 1.7	0.399	0.816	102.7	18.4	54 W	5*	48*

249595 1997 GH_{28}

12 23	14 1.44	−13 15.9	1.954	1.653	30.2	21.5	58 W	30*	42*
1 2	14 21.18	−15 31.7	1.912	1.701	30.9	21.5	63 W	29*	49*
1 12	14 39.63	−17 35.2	1.862	1.750	31.4	21.5	68 W	27*	56*
1 22	14 56.61	−19 27.0	1.805	1.798	31.7	21.5	74 W	26	63*
2 1	15 11.83	−21 7.8	1.741	1.847	31.7	21.5	80 W	24	71*
2 11	15 24.97	−22 38.4	1.672	1.894	31.3	21.4	87 W	22	79*
2 21	15 35.64	−24 0.0	1.600	1.941	30.5	21.4	94 W	21	87*
3 2	15 43.35	−25 12.9	1.525	1.987	29.2	21.3	102 W	20	89
3 12	15 47.61	−26 17.3	1.452	2.032	27.2	21.2	111 W	19	90
3 22	15 47.97	−27 12.2	1.384	2.076	24.4	21.0	121 W	18	89
4 1	15 44.08	−27 55.1	1.326	2.119	20.9	20.9	131 W	17	88
4 11	15 36.02	−28 22.0	1.281	2.160	16.6	20.7	142 W	17	88
4 21	15 24.40	−28 28.8	1.255	2.201	11.8	20.5	153 W	17	88
5 1	15 10.49	−28 12.8	1.253	2.240	7.0	20.4	164 W	17	88
5 6	15 3.24	−27 56.7	1.262	2.259	5.2	20.3	168 W	17	88
5 11	14 56.11	−27 36.0	1.277	2.277	4.6	20.3	170 E	17	88
5 16	14 49.32	−27 11.7	1.299	2.296	5.6	20.4	167 E	18	89
5 21	14 43.05	−26 44.8	1.327	2.314	7.4	20.6	163 E	18	89
5 26	14 37.46	−26 16.7	1.362	2.331	9.5	20.7	158 E	19	90
5 31	14 32.67	−25 48.5	1.402	2.349	11.5	20.9	152 E	19	90
6 5	14 28.74	−25 21.4	1.449	2.365	13.5	21.1	147 E	20	89
6 10	14 25.70	−24 56.1	1.500	2.382	15.3	21.2	142 E	20	89
6 15	14 23.54	−24 33.4	1.556	2.398	16.9	21.4	137 E	20	89

22753 1998 WT

12 23	14 1.95	−14 4.5	1.162	1.041	52.7	20.1	57 W	30*	42*
12 28	14 28.18	−16 27.2	1.121	0.990	55.1	19.9	56 W	27*	42*
1 2	14 56.85	−18 45.5	1.088	0.938	57.5	19.8	54 W	24*	42*
1 7	15 28.07	−20 53.8	1.065	0.885	59.7	19.7	51 W	22*	41*
1 12	16 1.78	−22 44.7	1.051	0.831	61.7	19.6	48 W	19*	39*
1 17	16 37.72	−24 10.8	1.049	0.777	63.1	19.5	45 W	16*	37*
1 22	17 15.37	−25 5.1	1.059	0.724	63.8	19.4	41 W	13*	34*
1 27	17 54.05	−25 22.6	1.082	0.672	63.3	19.3	38 W	11*	31*
2 1	18 32.98	−25 1.0	1.116	0.625	61.5	19.1	34 W	9*	27*
2 6	19 11.47	−24 0.8	1.162	0.584	58.0	18.9	30 W	7*	24*
2 11	19 49.00	−22 25.0	1.217	0.551	52.8	18.8	26 W	5*	20*
2 13	20 3.65	−21 37.7	1.241	0.541	50.3	18.7	25 W	4*	19*
2 15	20 18.07	−20 45.9	1.265	0.533	47.6	18.6	23 W	3*	17*
2 17	20 32.22	−19 49.9	1.291	0.528	44.7	18.6	22 W	3*	16*
2 19	20 46.11	−18 50.2	1.317	0.525	41.6	18.5	21 W	2*	15*
2 21	20 59.70	−17 47.2	1.343	0.524	38.5	18.5	19 W	1*	13*
2 23	21 13.00	−16 41.5	1.370	0.526	35.4	18.4	18 W	1*	12*
2 25	21 25.98	−15 33.6	1.396	0.530	32.3	18.4	17 W	—	11*
2 27	21 38.63	−14 23.9	1.423	0.537	29.3	18.4	15 W	—	9*
2 29	21 50.96	−13 13.0	1.449	0.545	26.4	18.4	14 W	—	8*
3 2	22 2.95	−12 1.3	1.475	0.556	23.7	18.4	13 W	—	7*
3 7	22 31.49	− 9 1.2	1.539	0.591	17.7	18.4	10 W	—	4*
3 12	22 58.05	− 6 3.9	1.601	0.633	12.9	18.5	8 W	—	2*
3 17	23 22.79	− 3 13.3	1.661	0.682	9.4	18.6	6 W	—	—
3 22	23 45.91	− 0 31.4	1.721	0.733	6.9	18.7	5 W	—	—
3 27	0 7.62	+ 2 0.6	1.779	0.787	5.2	18.9	4 W	—	—
4 1	0 28.09	+ 4 22.3	1.836	0.841	4.2	19.0	3 W	—	—
4 11	1 5.95	+ 8 34.8	1.947	0.948	3.3	19.4	3 W	—	—
4 21	1 40.56	+12 9.0	2.051	1.050	3.6	19.7	4 W	—	—
5 1	2 12.69	+15 9.0	2.148	1.147	4.4	20.0	5 W	—	—
5 11	2 42.85	+17 39.0	2.234	1.238	5.7	20.4	7 W	—	—
5 21	3 11.43	+19 42.7	2.310	1.322	7.3	20.7	10 W	—	3*
5 31	3 38.71	+21 23.1	2.373	1.400	9.0	20.9	12 W	1*	5*
6 10	4 4.86	+22 43.0	2.422	1.472	10.8	21.1	16 W	4*	8*
6 20	4 30.01	+23 44.4	2.457	1.537	12.7	21.3	19 W	7*	11*

4544 Xanthus

12 23	14 2.92	− 4 35.1	1.455	1.296	41.4	20.1	61 W	39*	38*
1 2	14 27.95	− 7 33.2	1.390	1.301	42.7	20.0	64 W	37*	44*
1 12	14 53.34	−10 28.7	1.320	1.303	44.0	20.0	67 W	34*	50*
1 22	15 19.40	−13 21.9	1.245	1.300	45.4	19.9	70 W	31*	56*
2 1	15 46.44	−16 13.4	1.166	1.292	46.9	19.8	73 W	29*	61*
2 11	16 14.87	−19 3.5	1.084	1.280	48.5	19.6	76 W	26*	67*
2 21	16 45.25	−21 52.6	1.002	1.264	50.1	19.5	79 W	23*	71*
2 26	17 1.37	−23 16.5	0.961	1.255	51.0	19.4	80 W	21*	73*
3 2	17 18.25	−24 39.6	0.921	1.244	51.9	19.3	81 W	20*	75*
3 7	17 36.00	−26 1.5	0.881	1.232	52.9	19.2	82 W	18*	76*
3 12	17 54.78	−27 21.5	0.843	1.219	53.9	19.1	83 W	17*	77*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	4544 Xanthus							*(continuation)*	
	h m	° ′			°	m	°	°	°
3 17	18 14.72	−28 38.6	0.806	1.206	55.1	19.0	83 W	15*	77*
3 22	18 35.96	−29 51.4	0.770	1.191	56.3	19.0	84 W	14*	77*
3 27	18 58.63	−30 57.8	0.736	1.176	57.6	18.9	84 W	12*	77*
4 1	19 22.84	−31 55.5	0.705	1.159	59.0	18.8	84 W	10*	76*
4 6	19 48.66	−32 41.3	0.676	1.142	60.5	18.7	83 W	8*	75*
4 11	20 16.10	−33 11.6	0.650	1.123	62.2	18.6	83 W	7*	74*
4 16	20 45.02	−33 22.5	0.627	1.105	64.1	18.6	82 W	5*	72*
4 21	21 15.15	−33 10.3	0.608	1.085	66.0	18.5	80 W	3*	71*
4 26	21 46.09	−32 31.7	0.593	1.065	68.0	18.5	79 W	2*	69*
5 1	22 17.33	−31 24.7	0.581	1.044	70.1	18.5	77 W	1*	67*
5 6	22 48.36	−29 48.8	0.574	1.023	72.3	18.5	75 W	—	65*
5 11	23 18.69	−27 45.2	0.572	1.001	74.3	18.5	73 W	—	64*
5 16	23 47.91	−25 16.8	0.573	0.979	76.3	18.5	70 W	—	62*
5 21	0 15.78	−22 27.7	0.579	0.958	78.1	18.5	68 W	—	60*
5 26	0 42.16	−19 22.5	0.589	0.936	79.7	18.6	65 W	—	58*
5 31	1 7.09	−16 5.7	0.603	0.915	81.0	18.6	63 W	—	56*
6 5	1 30.67	−12 41.3	0.621	0.894	82.0	18.7	61 W	2*	54*
6 10	1 53.12	− 9 13.1	0.642	0.874	82.6	18.7	59 W	3*	53*
6 15	2 14.63	− 5 43.9	0.666	0.856	82.8	18.8	57 W	5*	51*
6 20	2 35.45	− 2 16.6	0.692	0.839	82.6	18.8	55 W	8*	49*
6 25	2 55.79	+ 1 6.7	0.722	0.823	82.0	18.8	53 W	10*	47*
6 30	3 15.87	+ 4 24.1	0.753	0.810	81.1	18.9	52 W	13*	44*
7 5	3 35.89	+ 7 33.8	0.787	0.799	79.8	18.9	51 W	16*	42*
7 10	3 56.03	+10 34.0	0.822	0.790	78.1	18.9	50 W	19*	40*
7 15	4 16.43	+13 23.1	0.859	0.784	76.3	18.9	49 W	21*	37*
7 20	4 37.17	+15 59.4	0.896	0.782	74.2	18.9	48 W	24*	35*
7 30	5 19.85	+20 27.3	0.972	0.785	69.7	19.0	46 W	28*	31*
8 9	6 3.98	+23 48.2	1.046	0.800	65.0	19.0	46 W	32*	26*
8 19	6 48.85	+25 57.4	1.117	0.826	60.6	19.1	45 W	35*	23*
8 24	7 11.21	+26 35.4	1.150	0.841	58.6	19.1	45 W	36*	21*
8 29	7 33.34	+26 56.7	1.181	0.859	56.7	19.2	45 W	37*	20*
9 3	7 55.10	+27 2.2	1.211	0.878	55.0	19.2	45 W	37*	19*
9 8	8 16.40	+26 53.2	1.238	0.897	53.4	19.3	46 W	38*	18*
9 13	8 37.13	+26 31.2	1.263	0.918	52.0	19.3	46 W	39*	17*
9 18	8 57.24	+25 57.6	1.286	0.940	50.8	19.4	46 W	40*	16*
9 23	9 16.68	+25 14.0	1.306	0.961	49.7	19.4	47 W	40*	16*
9 28	9 35.44	+24 21.7	1.324	0.983	48.8	19.5	48 W	41*	15*
10 3	9 53.52	+23 22.1	1.339	1.005	48.0	19.5	48 W	42*	15*
10 8	10 10.95	+22 16.3	1.352	1.026	47.3	19.6	49 W	42*	15*
10 13	10 27.75	+21 5.4	1.362	1.047	46.7	19.6	50 W	43*	16*
10 18	10 43.95	+19 50.5	1.369	1.068	46.2	19.7	51 W	44*	16*
10 23	10 59.59	+18 32.4	1.374	1.088	45.9	19.7	52 W	45*	17*
10 28	11 14.70	+17 11.9	1.376	1.108	45.6	19.8	53 W	46*	18*
11 7	11 43.55	+14 25.9	1.372	1.145	45.3	19.8	55 W	47*	20*
11 17	12 10.83	+11 36.6	1.357	1.178	45.2	19.8	58 W	48*	23*
11 27	12 36.79	+ 8 47.0	1.332	1.208	45.4	19.9	61 W	49*	27*
12 7	13 1.70	+ 5 58.9	1.297	1.234	45.7	19.9	64 W	48*	31*
12 17	13 25.79	+ 3 13.7	1.252	1.256	46.2	19.8	67 W	47*	36*
12 27	13 49.19	+ 0 31.9	1.199	1.274	46.7	19.8	71 W	45*	42*
1 6	14 12.08	− 2 6.7	1.138	1.288	47.3	19.7	74 W	43*	49*
1 16	14 34.59	− 4 42.7	1.071	1.297	47.9	19.6	78 W	40	55*
	88453 2001 QF_{91}								
12 23	14 2.92	−29 25.7	3.164	2.695	17.0	21.3	53 W	14*	46*
1 2	14 15.66	−31 32.2	3.072	2.716	18.3	21.3	60 W	13*	53*
1 12	14 27.54	−33 37.1	2.972	2.736	19.3	21.2	67 W	11*	61*
1 22	14 38.33	−35 40.7	2.865	2.755	20.0	21.2	74 W	9	68*
2 1	14 47.73	−37 42.9	2.753	2.772	20.5	21.1	81 W	7	73*
2 11	14 55.38	−39 43.4	2.638	2.789	20.7	21.1	88 W	5	76*
2 21	15 0.86	−41 41.7	2.524	2.805	20.5	21.0	96 W	3	74
3 2	15 3.69	−43 36.0	2.412	2.820	19.9	20.9	104 W	1	72
3 12	15 3.39	−45 23.7	2.307	2.834	19.0	20.7	112 W	—	71
3 22	14 59.56	−47 0.3	2.212	2.846	17.6	20.6	120 W	—	69
4 1	14 52.00	−48 19.7	2.130	2.858	16.0	20.5	128 W	—	68
4 6	14 46.88	−48 50.6	2.096	2.864	15.1	20.4	132 W	—	67
4 11	14 40.98	−49 14.6	2.066	2.869	14.2	20.4	136 W	—	67
4 16	14 34.41	−49 30.7	2.042	2.874	13.3	20.3	139 W	—	66
4 21	14 27.34	−49 38.4	2.022	2.879	12.5	20.3	142 W	—	66
4 26	14 19.97	−49 37.1	2.009	2.883	11.9	20.2	144 W	—	66
5 1	14 12.53	−49 27.0	2.001	2.888	11.4	20.2	145 E	—	67
5 6	14 5.24	−49 8.3	2.000	2.892	11.3	20.2	146 E	—	67
5 11	13 58.31	−48 41.9	2.004	2.895	11.3	20.2	146 E	—	67
5 16	13 51.91	−48 8.6	2.015	2.899	11.7	20.2	145 E	—	68
5 21	13 46.21	−47 29.5	2.031	2.902	12.2	20.3	143 E	—	69
5 26	13 41.31	−46 46.1	2.053	2.905	12.9	20.3	140 E	—	69
5 31	13 37.28	−45 59.8	2.081	2.908	13.7	20.4	137 E	—	70
6 5	13 34.17	−45 12.0	2.113	2.910	14.6	20.5	134 E	—	71
6 10	13 31.95	−44 23.8	2.151	2.912	15.4	20.5	130 E	1*	72
6 15	13 30.62	−43 36.3	2.192	2.914	16.2	20.6	127 E	1*	72

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	88453 2001 QF_{91}							*(continuation)*	
	h m	° ′			°	m	°	°	°
6 20	13 30.14	−42 50.3	2.238	2.916	17.0	20.7	123 E	1*	73
6 25	13 30.48	−42 6.6	2.287	2.918	17.8	20.7	119 E	1*	74
6 30	13 31.57	−41 25.8	2.338	2.919	18.4	20.8	115 E	1*	75
7 5	13 33.37	−40 48.2	2.393	2.920	18.9	20.9	111 E	1*	75
7 10	13 35.82	−40 14.1	2.449	2.920	19.4	21.0	107 E	1*	76
7 15	13 38.87	−39 43.6	2.508	2.921	19.8	21.0	104 E	—	76
7 20	13 42.47	−39 16.6	2.567	2.921	20.0	21.1	100 E	—	77*
7 25	13 46.59	−38 53.3	2.628	2.921	20.2	21.1	96 E	—	76*
7 30	13 51.19	−38 33.4	2.689	2.920	20.3	21.2	93 E	—	75*
8 4	13 56.21	−38 16.9	2.751	2.920	20.3	21.2	89 E	—	73*
8 9	14 1.64	−38 3.5	2.813	2.919	20.3	21.3	86 E	—	71*
8 14	14 7.43	−37 53.0	2.874	2.918	20.1	21.3	82 E	—	68*
8 19	14 13.58	−37 45.2	2.935	2.916	19.9	21.4	79 E	—	65*
8 24	14 20.06	−37 39.9	2.995	2.915	19.6	21.4	76 E	—	63*
8 29	14 26.84	−37 36.8	3.055	2.913	19.3	21.4	72 E	—	60*
9 3	14 33.90	−37 35.8	3.112	2.911	18.9	21.4	69 E	—	57*
9 8	14 41.23	−37 36.4	3.169	2.908	18.4	21.5	66 E	—	54*
9 13	14 48.82	−37 38.6	3.223	2.906	17.9	21.5	63 E	—	51*
	162385 2000 BM_{19}								
12 23	14 3.58	− 5 20.4	0.995	0.992	59.3	20.7	60 W	38*	38*
1 2	14 43.21	− 8 29.3	0.956	0.969	61.4	20.6	60 W	35*	41*
1 12	15 27.13	−11 38.0	0.920	0.936	64.0	20.5	59 W	32*	43*
1 22	16 16.38	−14 36.5	0.892	0.893	66.9	20.5	57 W	28*	44*
1 27	16 43.24	−15 56.7	0.883	0.867	68.4	20.4	55 W	26*	43*
2 1	17 11.64	−17 7.2	0.879	0.839	69.9	20.4	53 W	24*	43*
2 6	17 41.52	−18 4.8	0.879	0.808	71.3	20.4	51 W	22*	42*
2 11	18 12.76	−18 45.9	0.886	0.776	72.5	20.3	49 W	19*	40*
2 16	18 45.16	−19 7.2	0.899	0.741	73.4	20.3	46 W	17*	38*
2 21	19 18.42	−19 6.0	0.919	0.704	73.7	20.2	43 W	15*	36*
2 26	19 52.21	−18 40.2	0.948	0.666	73.3	20.2	40 W	12*	34*
3 2	20 26.23	−17 48.4	0.984	0.628	72.0	20.1	37 W	10*	31*
3 7	21 0.19	−16 30.5	1.029	0.590	69.6	20.0	34 W	8*	28*
3 12	21 33.94	−14 46.6	1.082	0.554	65.9	19.8	31 W	5*	25*
3 17	22 7.37	−12 37.7	1.141	0.522	60.6	19.6	27 W	3*	21*
3 22	22 40.43	−10 5.5	1.205	0.497	53.9	19.5	24 W	1*	18*
3 27	23 13.04	− 7 13.0	1.271	0.481	45.8	19.3	20 W	—	14*
4 1	23 45.11	− 4 4.7	1.336	0.475	37.0	19.1	17 W	—	11*
4 6	0 16.47	− 0 47.0	1.398	0.481	28.2	19.0	13 W	—	7*
4 11	0 46.98	+ 2 32.7	1.455	0.498	20.0	18.9	10 W	—	4*
4 16	1 16.56	+ 5 47.7	1.507	0.523	12.9	18.8	7 W	—	—
4 21	1 45.18	+ 8 52.7	1.553	0.555	7.1	18.8	4 W	—	—
4 26	2 12.90	+11 43.8	1.596	0.591	3.1	18.8	2 W	—	—
5 1	2 39.79	+14 18.8	1.635	0.629	2.7	18.9	2 E	—	—
5 6	3 5.93	+16 36.7	1.672	0.667	4.8	19.2	3 E	—	—
5 11	3 31.40	+18 37.1	1.707	0.705	6.6	19.5	5 E	—	—
5 21	4 20.56	+21 46.6	1.772	0.777	9.0	19.9	7 E	—	—
5 31	5 7.54	+23 51.6	1.830	0.840	10.1	20.2	8 E	1*	—
6 10	5 52.45	+24 58.6	1.881	0.894	10.4	20.4	9 E	1*	1*
6 15	6 14.15	+25 12.6	1.904	0.916	10.3	20.5	9 E	1*	1*
6 20	6 35.35	+25 14.6	1.925	0.937	10.2	20.5	9 E	1*	1*
6 25	6 56.07	+25 5.5	1.943	0.955	9.9	20.6	9 E	1*	1*
6 30	7 16.30	+24 46.1	1.960	0.970	9.7	20.6	9 E	1*	1*
7 5	7 36.07	+24 17.1	1.973	0.982	9.4	20.7	9 E	1*	1*
7 10	7 55.41	+23 39.0	1.985	0.992	9.0	20.7	9 E	—	1*
7 15	8 14.33	+22 52.6	1.993	0.999	8.7	20.7	9 E	—	1*
7 20	8 32.89	+21 58.3	1.999	1.004	8.3	20.7	8 E	—	1*
7 25	8 51.11	+20 56.6	2.003	1.006	7.9	20.7	8 E	—	—
7 30	9 9.02	+19 47.9	2.003	1.005	7.6	20.7	8 E	—	—
8 4	9 26.67	+18 32.5	2.001	1.002	7.3	20.6	7 E	—	—
8 9	9 44.12	+17 10.7	1.996	0.996	6.9	20.6	7 E	—	—
8 14	10 1.41	+15 42.8	1.988	0.988	6.7	20.6	6 E	—	—
8 19	10 18.61	+14 8.9	1.977	0.977	6.4	20.5	6 E	—	—
8 24	10 35.77	+12 29.2	1.963	0.963	6.2	20.5	6 E	—	—
8 29	10 52.95	+10 43.8	1.946	0.947	6.1	20.4	6 E	—	—
9 8	11 27.68	+ 6 56.2	1.904	0.906	6.0	20.3	5 E	—	—
9 18	12 3.49	+ 2 46.4	1.850	0.855	6.2	20.1	5 E	—	—
9 28	12 41.20	− 1 44.8	1.785	0.794	7.2	19.9	6 E	—	—
10 8	13 21.86	− 6 35.5	1.707	0.724	9.3	19.7	7 E	—	—
10 13	13 43.73	− 9 6.8	1.663	0.687	11.2	19.6	8 E	—	1*
10 18	14 6.87	−11 40.6	1.615	0.649	13.7	19.5	9 E	—	3*
10 23	14 31.52	−14 15.2	1.563	0.611	17.0	19.4	10 E	—	4*
10 28	14 57.87	−16 47.7	1.505	0.574	21.4	19.3	12 E	—	6*
11 2	15 26.10	−19 14.5	1.442	0.539	27.0	19.3	14 E	—	8*
11 7	15 56.28	−21 30.5	1.372	0.510	34.0	19.2	17 E	1*	11*
11 12	16 28.31	−23 29.4	1.296	0.488	42.2	19.2	19 E	2*	13*
11 17	17 1.86	−25 4.3	1.213	0.477	51.5	19.3	22 E	3*	16*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
162385 2000 BM_{19} *(continuation)*									
11 19	17 15.57	−25 34.1	1.178	0.475	55.3	19.4	23 E	4*	17*
11 21	17 29.39	−25 58.6	1.143	0.475	59.2	19.4	24 E	4*	18*
11 23	17 43.27	−26 17.7	1.107	0.477	63.1	19.5	26 E	5*	19*
11 25	17 57.18	−26 31.0	1.072	0.481	66.9	19.5	27 E	6*	20*
11 27	18 11.06	−26 38.5	1.036	0.487	70.5	19.6	28 E	7*	21*
11 29	18 24.89	−26 40.1	1.001	0.495	74.0	19.7	29 E	7*	22*
12 1	18 38.64	−26 35.7	0.966	0.503	77.3	19.7	30 E	8*	23*
12 3	18 52.30	−26 25.3	0.932	0.513	80.4	19.8	31 E	9*	24*
12 5	19 5.84	−26 9.0	0.898	0.525	83.2	19.9	32 E	10*	24*
12 7	19 19.26	−25 46.7	0.866	0.537	85.8	19.9	33 E	11*	25*
12 12	19 52.30	−24 25.2	0.791	0.571	91.2	20.1	35 E	13*	27*
12 17	20 24.64	−22 27.7	0.723	0.608	95.0	20.2	38 E	16*	28*
12 22	20 56.38	−19 55.0	0.664	0.646	97.3	20.3	41 E	19*	30*
12 27	21 27.61	−16 48.9	0.615	0.684	98.2	20.3	44 E	23*	31*
1 1	21 58.39	−13 12.3	0.574	0.722	98.0	20.2	47 E	27*	31*
1 6	22 28.73	− 9 10.5	0.543	0.758	96.8	20.1	50 E	31*	32*
1 11	22 58.60	− 4 50.7	0.520	0.792	94.9	20.1	53 E	36*	32*
1 16	23 27.93	− 0 22.0	0.506	0.823	92.3	20.0	57 E	40*	32*
131634 2001 XN_{68}									
12 23	14 4.04	−30 21.5	2.090	1.692	27.7	19.2	53 W	13*	46*
12 28	14 17.01	−32 6.2	2.064	1.699	28.2	19.2	55 W	12*	48*
1 2	14 30.13	−33 47.3	2.038	1.707	28.7	19.2	57 W	11*	50*
1 7	14 43.40	−35 24.7	2.012	1.716	29.2	19.2	58 W	9*	52*
1 12	14 56.81	−36 58.0	1.986	1.725	29.7	19.2	60 W	8*	54*
1 17	15 10.34	−38 27.0	1.960	1.734	30.1	19.2	62 W	6*	56*
1 22	15 23.96	−39 51.5	1.933	1.744	30.5	19.2	64 W	5*	58*
1 27	15 37.64	−41 11.5	1.906	1.755	30.8	19.1	66 W	4*	59*
2 1	15 51.33	−42 26.8	1.879	1.766	31.2	19.1	68 W	2*	60*
2 6	16 4.98	−43 37.4	1.851	1.778	31.4	19.1	70 W	1*	62*
2 11	16 18.54	−44 43.2	1.823	1.790	31.7	19.1	72 W	—	63*
2 16	16 31.96	−45 44.6	1.795	1.803	31.9	19.1	75 W	—	63*
2 21	16 45.15	−46 41.5	1.766	1.816	32.0	19.1	77 W	—	64*
2 26	16 58.05	−47 34.3	1.736	1.829	32.1	19.1	79 W	—	64*
3 2	17 10.57	−48 23.2	1.706	1.843	32.1	19.0	82 W	—	65*
3 7	17 22.63	−49 8.6	1.676	1.857	32.1	19.0	84 W	—	65*
3 12	17 34.15	−49 50.7	1.645	1.872	32.0	19.0	87 W	—	65*
3 17	17 45.03	−50 30.0	1.614	1.886	31.8	19.0	89 W	—	65*
3 22	17 55.19	−51 6.9	1.583	1.901	31.6	18.9	92 W	—	65*
3 27	18 4.51	−51 41.9	1.551	1.916	31.2	18.9	95 W	—	64*
4 1	18 12.90	−52 15.1	1.519	1.932	30.8	18.9	98 W	—	64
4 6	18 20.25	−52 47.0	1.488	1.948	30.3	18.8	101 W	—	63
4 11	18 26.46	−53 17.6	1.457	1.963	29.6	18.8	104 W	—	63
4 16	18 31.44	−53 47.2	1.426	1.979	28.9	18.7	108 W	—	62
4 21	18 35.05	−54 15.5	1.397	1.995	28.0	18.7	111 W	—	62
4 26	18 37.18	−54 42.3	1.368	2.012	27.0	18.6	115 W	—	61
5 1	18 37.76	−55 7.0	1.341	2.028	25.8	18.6	119 W	—	61
5 6	18 36.72	−55 28.6	1.316	2.045	24.6	18.5	123 W	—	61
5 11	18 34.04	−55 46.1	1.294	2.061	23.2	18.4	126 W	—	60
5 16	18 29.72	−55 58.3	1.274	2.078	21.7	18.4	130 W	—	60
5 21	18 23.86	−56 3.4	1.258	2.094	20.2	18.3	134 W	—	60
5 26	18 16.62	−55 59.8	1.245	2.111	18.7	18.3	138 W	—	60
5 31	18 8.30	−55 46.0	1.237	2.127	17.2	18.2	142 W	—	60
6 5	17 59.26	−55 21.0	1.233	2.144	15.8	18.2	145 W	—	61
6 10	17 49.89	−54 44.3	1.234	2.161	14.6	18.1	148 W	—	61
6 15	17 40.60	−53 56.0	1.241	2.177	13.8	18.1	149 W	—	62
6 20	17 31.78	−52 56.9	1.253	2.194	13.3	18.2	150 E	—	63
6 25	17 23.75	−51 48.4	1.272	2.210	13.3	18.2	150 E	—	64
6 30	17 16.77	−50 32.5	1.296	2.227	13.8	18.3	149 E	—	65
7 5	17 10.98	−49 11.5	1.325	2.243	14.6	18.4	146 E	—	67
7 10	17 6.43	−47 47.4	1.361	2.260	15.6	18.5	143 E	—	68
7 15	17 3.12	−46 22.2	1.401	2.276	16.7	18.6	140 E	—	70
7 20	17 1.01	−44 57.7	1.447	2.292	17.8	18.7	136 E	—	71
7 25	17 0.04	−43 35.1	1.498	2.308	18.9	18.9	132 E	1	72
7 30	17 0.11	−42 15.5	1.552	2.324	20.0	19.0	128 E	3	74
8 4	17 1.14	−40 59.7	1.611	2.340	20.9	19.1	124 E	4	75
8 9	17 3.01	−39 47.9	1.674	2.356	21.8	19.2	120 E	5	76
8 14	17 5.64	−38 40.4	1.739	2.371	22.5	19.4	117 E	6*	77
8 19	17 8.96	−37 37.1	1.808	2.387	23.0	19.5	113 E	7*	78
8 24	17 12.89	−36 37.8	1.878	2.402	23.5	19.6	109 E	8*	79
8 29	17 17.35	−35 42.4	1.951	2.417	23.8	19.7	105 E	9*	80
9 8	17 27.66	−34 2.0	2.102	2.447	24.1	19.9	98 E	11*	82
9 18	17 39.48	−32 32.9	2.257	2.476	23.9	20.1	90 E	12*	81*
9 28	17 52.48	−31 12.4	2.414	2.505	23.4	20.2	83 E	13*	77*
10 8	18 6.40	−29 57.8	2.570	2.533	22.6	20.3	77 E	14*	70*
10 18	18 21.03	−28 46.7	2.724	2.560	21.4	20.5	70 E	15*	64*
10 28	18 36.19	−27 37.3	2.874	2.586	20.1	20.6	63 E	15*	57*
11 7	18 51.73	−26 27.9	3.017	2.612	18.5	20.6	57 E	16*	50*
11 17	19 7.52	−25 17.3	3.153	2.636	16.8	20.7	50 E	16*	43*
11 27	19 23.47	−24 4.4	3.279	2.660	15.0	20.7	44 E	16*	36*
12 7	19 39.45	−22 48.5	3.393	2.684	13.0	20.8	38 E	15*	29*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
131634 2001 XN_{68} *(continuation)*									
12 17	19 55.39	−21 29.2	3.496	2.706	10.9	20.8	31 E	14*	22*
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*
128353 2004 GK_{39}									
12 23	14 4.28	−10 16.5	2.951	2.570	19.0	21.4	58 W	33*	40*
1 2	14 18.00	−11 24.9	2.815	2.555	20.4	21.3	65 W	33*	48*
1 12	14 31.11	−12 26.3	2.673	2.539	21.6	21.2	72 W	33*	55*
1 22	14 43.44	−13 20.3	2.525	2.522	22.5	21.1	79 W	32	63*
2 1	14 54.75	−14 6.3	2.374	2.505	23.1	21.0	86 W	31	71*
2 11	15 4.77	−14 43.8	2.222	2.486	23.3	20.8	94 W	30	77*
2 21	15 13.19	−15 12.6	2.071	2.466	23.1	20.6	102 W	30	79
3 2	15 19.64	−15 32.1	1.923	2.446	22.4	20.4	110 W	29	80
3 12	15 23.74	−15 42.0	1.783	2.425	21.0	20.2	119 W	29	80
3 22	15 25.09	−15 42.0	1.652	2.403	18.9	20.0	129 W	29	80
4 1	15 23.39	−15 31.8	1.535	2.381	16.0	19.7	139 W	29	80
4 11	15 18.52	−15 11.5	1.436	2.358	12.3	19.4	150 W	30	79
4 21	15 10.69	−14 41.9	1.358	2.334	7.8	19.1	162 W	30	79
5 1	15 0.58	−14 5.4	1.305	2.309	2.9	18.7	173 W	31	78
5 6	14 55.02	−13 45.8	1.288	2.296	1.2	18.5	177 W	31	78
5 11	14 49.35	−13 26.2	1.278	2.284	3.1	18.6	173 E	32	77
5 16	14 43.74	−13 7.3	1.274	2.271	5.8	18.8	167 E	32	77
5 21	14 38.38	−12 49.8	1.277	2.258	8.4	18.9	161 E	32	77
5 26	14 33.42	−12 34.5	1.285	2.245	11.0	19.0	155 E	32	77
5 31	14 29.03	−12 22.1	1.300	2.231	13.5	19.1	149 E	33	76
6 10	14 22.35	−12 7.9	1.343	2.205	18.0	19.3	138 E	33	76
6 20	14 18.84	−12 9.5	1.403	2.177	21.7	19.5	128 E	33*	76
6 30	14 18.69	−12 27.4	1.474	2.150	24.6	19.6	118 E	32*	76
7 10	14 21.76	−13 0.4	1.553	2.122	26.9	19.8	110 E	30*	77
7 20	14 27.79	−13 46.3	1.637	2.093	28.4	19.9	102 E	27*	78
7 30	14 36.51	−14 42.8	1.723	2.065	29.4	20.0	94 E	24*	79
8 9	14 47.62	−15 47.2	1.808	2.037	29.8	20.1	88 E	22*	78*
8 19	15 0.90	−16 56.9	1.892	2.009	29.9	20.2	81 E	20*	74*
8 29	15 16.16	−18 9.3	1.973	1.980	29.6	20.2	76 E	18*	69*
9 8	15 33.22	−19 21.9	2.049	1.953	29.0	20.3	70 E	17*	64*
9 18	15 51.97	−20 32.2	2.121	1.925	28.2	20.3	65 E	16*	59*
9 28	16 12.31	−21 37.7	2.188	1.898	27.2	20.3	60 E	15*	54*
10 8	16 34.11	−22 35.9	2.250	1.872	26.1	20.3	55 E	14*	49*
10 18	16 57.29	−23 24.3	2.306	1.846	24.7	20.3	51 E	14*	45*
10 28	17 21.71	−24 0.7	2.357	1.822	23.3	20.3	47 E	13*	40*
11 7	17 47.22	−24 22.8	2.402	1.799	21.8	20.2	42 E	13*	36*
11 17	18 13.67	−24 28.7	2.443	1.776	20.2	20.2	38 E	12*	31*
11 27	18 40.86	−24 17.0	2.479	1.756	18.5	20.1	34 E	12*	27*
12 7	19 8.58	−23 46.6	2.510	1.737	16.8	20.1	31 E	11*	22*
12 17	19 36.63	−22 56.9	2.538	1.720	15.0	20.0	27 E	11*	18*
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*
310442 2000 CH_{59}									
12 23	14 5.39	−77 11.9	0.054	0.958	116.6	18.1	61 W	—	34*
12 24	11 53.73	−81 4.0	0.051	0.965	109.8	17.5	67 W	—	35*
12 25	8 42.82	−79 48.6	0.050	0.972	102.4	17.1	75 W	—	36
12 26	6 59.37	−73 53.7	0.049	0.978	94.7	16.7	82 W	—	42
12 27	6 14.16	−66 28.9	0.049	0.985	87.0	16.4	90 E	—	50
12 28	5 50.68	−58 50.5	0.050	0.991	79.6	16.2	98 E	—	57
12 29	5 36.60	−51 31.2	0.052	0.998	72.8	16.0	104 E	—	64
12 30	5 27.29	−44 47.2	0.055	1.004	66.7	16.0	110 E	—	71
12 31	5 20.72	−38 45.6	0.059	1.010	61.5	16.0	116 E	6	77
1 1	5 15.87	−33 27.2	0.063	1.016	57.1	16.0	120 E	12	83
1 2	5 12.17	−28 49.1	0.068	1.022	53.4	16.1	123 E	16	87
1 3	5 9.27	−24 47.2	0.073	1.028	50.5	16.1	126 E	20	89
1 4	5 6.96	−21 16.5	0.078	1.034	48.0	16.2	129 E	24	85
1 5	5 5.10	−18 12.5	0.084	1.040	46.1	16.4	130 E	27	82
1 6	5 3.60	−15 31.2	0.090	1.045	44.6	16.5	132 E	29	80
1 7	5 2.37	−13 9.0	0.096	1.051	43.4	16.6	133 E	32	77
1 8	5 1.38	−11 3.1	0.102	1.056	42.4	16.7	134 E	34	75
1 9	5 0.58	− 9 10.8	0.109	1.062	41.8	16.8	134 E	36	73
1 10	4 59.94	− 7 30.3	0.115	1.067	41.2	17.0	134 E	37	72
1 11	4 59.44	− 5 59.7	0.122	1.072	40.9	17.1	134 E	39	70
1 12	4 59.06	− 4 37.7	0.129	1.077	40.7	17.2	134 E	40	69
1 13	4 58.79	− 3 23.2	0.135	1.082	40.5	17.3	134 E	42	67
1 14	4 58.61	− 2 15.1	0.142	1.087	40.5	17.4	134 E	43	66
1 15	4 58.53	− 1 12.6	0.149	1.092	40.5	17.6	134 E	44	65
1 16	4 58.52	− 0 15.0	0.156	1.097	40.6	17.7	133 E	45	64
1 17	4 58.58	+ 0 38.2	0.163	1.102	40.7	17.8	133 E	46	63
1 18	4 58.72	+ 1 27.7	0.171	1.106	40.9	17.9	133 E	46	63
1 19	4 58.92	+ 2 13.7	0.178	1.111	41.1	18.0	132 E	47	62
1 20	4 59.18	+ 2 56.6	0.185	1.115	41.3	18.1	132 E	48	61
1 21	4 59.49	+ 3 36.9	0.192	1.120	41.6	18.2	131 E	49	60
1 22	4 59.87	+ 4 14.7	0.200	1.124	41.8	18.3	130 E	49	60

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	310442 2000 CH_{59}							*(continuation)*	
	h m	° ′			°	m	°	°	°
1 24	5 0.77	+ 5 23.9	0.215	1.132	42.4	18.5	129 E	50	59
1 26	5 1.86	+ 6 25.9	0.230	1.140	43.0	18.7	128 E	51	58
1 28	5 3.14	+ 7 21.7	0.245	1.148	43.6	18.8	127 E	52	57
1 30	5 4.57	+ 8 12.4	0.260	1.155	44.2	19.0	125 E	53	56
2 1	5 6.17	+ 8 58.8	0.276	1.162	44.8	19.1	124 E	54	55
2 6	5 10.76	+10 39.2	0.315	1.177	46.2	19.5	120 E	56	53
2 11	5 16.10	+12 2.5	0.355	1.191	47.5	19.8	117 E	57	52
2 16	5 22.09	+13 12.9	0.395	1.202	48.7	20.1	114 E	58	51
2 21	5 28.68	+14 13.4	0.435	1.212	49.8	20.4	111 E	59	50
2 26	5 35.81	+15 5.7	0.475	1.219	50.8	20.6	107 E	60	49
3 2	5 43.44	+15 51.0	0.515	1.224	51.7	20.8	104 E	61	48
3 7	5 51.51	+16 30.2	0.554	1.227	52.5	21.0	101 E	62	47
3 12	5 59.96	+17 3.8	0.592	1.228	53.2	21.2	98 E	62	47*
3 17	6 8.75	+17 32.5	0.629	1.227	53.8	21.3	95 E	62*	46*
3 22	6 17.87	+17 56.5	0.666	1.224	54.4	21.4	93 E	62*	46*
	7505 Furusho								
12 23	14 6.04	− 7 6.6	4.045	3.636	13.4	18.9	59 W	36*	38*
1 2	14 14.41	− 7 42.0	3.904	3.633	14.4	18.9	67 W	37*	47*
1 12	14 21.86	− 8 10.2	3.754	3.629	15.2	18.8	75 W	37	55*
1 22	14 28.23	− 8 30.6	3.598	3.624	15.7	18.7	84 W	36	63*
2 1	14 33.30	− 8 42.8	3.438	3.618	15.8	18.6	93 W	36	70*
2 11	14 36.87	− 8 46.4	3.279	3.611	15.5	18.5	102 W	36	73
2 21	14 38.74	− 8 41.0	3.124	3.603	14.8	18.4	111 W	36	73
3 2	14 38.71	− 8 26.6	2.978	3.595	13.6	18.2	121 W	37	72
3 12	14 36.71	− 8 3.5	2.845	3.586	11.9	18.1	132 W	37	72
3 22	14 32.73	− 7 32.5	2.731	3.576	9.7	17.9	143 W	37	72
4 1	14 26.92	− 6 55.4	2.640	3.565	7.1	17.7	154 W	38	71
4 11	14 19.64	− 6 14.6	2.576	3.553	4.3	17.5	165 W	39	70
4 21	14 11.42	− 5 33.2	2.541	3.540	2.1	17.3	173 W	39	70
5 1	14 2.91	− 4 55.0	2.536	3.526	3.6	17.4	167 E	40	69
5 11	13 54.82	− 4 23.5	2.561	3.512	6.5	17.6	157 E	41	68
5 21	13 47.75	− 4 1.4	2.613	3.497	9.4	17.7	146 E	41	68
5 31	13 42.19	− 3 50.6	2.689	3.481	11.9	17.9	135 E	41	68
6 10	13 38.42	− 3 51.6	2.784	3.464	13.9	18.0	125 E	41	68
6 20	13 36.56	− 4 4.2	2.893	3.446	15.5	18.1	115 E	40*	68
6 30	13 36.60	− 4 27.6	3.012	3.427	16.6	18.3	106 E	37*	68
7 10	13 38.45	− 5 0.5	3.136	3.407	17.2	18.4	97 E	33*	69
7 20	13 41.97	− 5 41.7	3.262	3.387	17.5	18.4	88 E	30*	70*
7 30	13 47.01	− 6 29.9	3.387	3.365	17.3	18.5	80 E	26*	68*
8 9	13 53.42	− 7 23.7	3.507	3.343	16.8	18.5	72 E	23*	64*
8 19	14 1.04	− 8 22.0	3.620	3.320	16.0	18.6	65 E	20*	58*
8 29	14 9.76	− 9 23.7	3.723	3.296	15.0	18.6	58 E	17*	51*
9 8	14 19.46	−10 27.7	3.816	3.271	13.8	18.6	51 E	15*	44*
9 18	14 30.06	−11 33.1	3.897	3.246	12.4	18.5	44 E	13*	37*
9 28	14 41.47	−12 39.1	3.963	3.219	10.8	18.5	37 E	11*	31*
10 8	14 53.61	−13 44.7	4.015	3.192	9.1	18.4	30 E	8*	24*
10 18	15 6.43	−14 49.1	4.051	3.164	7.3	18.4	24 E	6*	17*
10 28	15 19.87	−15 51.6	4.070	3.134	5.4	18.3	17 E	4*	10*
11 7	15 33.86	−16 51.4	4.073	3.105	3.4	18.1	11 E	1*	4*
11 17	15 48.37	−17 47.8	4.058	3.074	1.5	18.0	5 E	—	—
11 27	16 3.33	−18 40.1	4.027	3.042	1.0	17.9	3 W	—	—
12 7	16 18.67	−19 27.8	3.979	3.010	3.0	18.0	9 W	2*	—
12 17	16 34.33	−20 10.4	3.914	2.976	5.0	18.1	15 W	6*	6*
12 27	16 50.25	−20 47.4	3.833	2.942	7.1	18.1	22 W	9*	12*
1 6	17 6.34	−21 18.5	3.737	2.907	9.2	18.1	28 W	12*	19*
1 16	17 22.52	−21 43.6	3.628	2.872	11.2	18.1	35 W	14*	26*
	54071 2000 GQ_{146}								
12 23	14 6.54	+17 49.5	0.890	1.089	58.6	19.2	71 W	60*	24*
1 2	14 40.28	+13 17.3	0.879	1.077	59.3	19.2	70 W	56*	29*
1 12	15 12.02	+ 8 35.8	0.867	1.069	60.0	19.2	70 W	52*	35*
1 22	15 42.39	+ 3 48.0	0.853	1.067	60.4	19.2	71 W	48*	41*
2 1	16 11.92	− 1 4.0	0.837	1.070	60.8	19.1	71 W	43*	48*
2 11	16 41.09	− 5 59.4	0.819	1.077	60.9	19.1	73 W	38*	55*
2 21	17 10.40	−10 57.0	0.798	1.090	60.9	19.1	74 W	33*	61*
3 2	17 40.15	−15 55.6	0.775	1.107	60.6	19.0	77 W	28*	67*
3 12	18 10.62	−20 54.0	0.752	1.127	60.0	19.0	79 W	23*	72*
3 17	18 26.22	−23 22.6	0.740	1.139	59.5	19.0	81 W	20*	74*
3 22	18 42.06	−25 50.3	0.729	1.151	59.0	18.9	82 W	17*	76*
3 27	18 58.14	−28 17.1	0.718	1.164	58.5	18.9	84 W	15*	77*
4 1	19 14.46	−30 42.6	0.707	1.177	57.8	18.9	85 W	12*	78*
4 6	19 31.02	−33 6.5	0.697	1.191	57.1	18.9	87 W	9*	78*
4 11	19 47.81	−35 28.6	0.687	1.205	56.3	18.8	89 W	7*	77*
4 16	20 4.79	−37 48.6	0.678	1.219	55.4	18.8	91 W	4*	76*
4 21	20 21.91	−40 6.4	0.670	1.234	54.4	18.8	93 W	1*	75*
4 26	20 39.10	−42 21.9	0.663	1.249	53.4	18.7	95 W	—	73*
5 1	20 56.30	−44 35.0	0.656	1.264	52.4	18.7	97 W	—	71*
5 6	21 13.42	−46 45.6	0.651	1.279	51.3	18.7	99 W	—	69*
5 11	21 30.39	−48 53.8	0.646	1.294	50.1	18.7	100 W	—	67*
5 16	21 47.07	−50 59.7	0.642	1.309	49.0	18.7	102 W	—	65*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	54071 2000 GQ_{146}							*(continuation)*	
	h m	° ′			°	m	°	°	°
5 21	22 3.33	−53 3.8	0.639	1.324	47.8	18.6	104 W	—	63
5 26	22 19.00	−55 6.2	0.636	1.338	46.6	18.6	106 W	—	61
5 31	22 33.88	−57 7.2	0.635	1.353	45.4	18.6	108 W	—	59
6 5	22 47.81	−59 6.7	0.635	1.367	44.3	18.6	110 W	—	57
6 10	23 0.53	−61 5.2	0.635	1.381	43.1	18.6	112 W	—	55
6 15	23 11.76	−63 2.7	0.637	1.395	42.0	18.6	113 W	—	53
6 20	23 21.09	−64 59.1	0.639	1.408	41.0	18.6	115 W	—	51
6 22	23 24.19	−65 45.3	0.640	1.414	40.6	18.6	115 W	—	50
6 24	23 26.88	−66 31.1	0.642	1.419	40.2	18.6	116 W	—	49
6 26	23 29.11	−67 16.5	0.643	1.424	39.8	18.6	116 W	—	49
6 28	23 30.86	−68 1.4	0.645	1.429	39.4	18.6	117 W	—	48
6 30	23 32.08	−68 45.8	0.647	1.434	39.0	18.6	117 W	—	47
7 2	23 32.72	−69 29.4	0.649	1.439	38.7	18.6	118 W	—	47
7 4	23 32.73	−70 12.2	0.652	1.444	38.3	18.6	118 W	—	46
7 6	23 32.06	−70 54.0	0.654	1.449	38.0	18.6	119 W	—	45
7 8	23 30.65	−71 34.7	0.657	1.454	37.7	18.6	119 W	—	44
7 10	23 28.43	−72 14.0	0.660	1.458	37.4	18.6	119 W	—	44
7 12	23 25.34	−72 51.6	0.663	1.463	37.1	18.6	120 W	—	43
7 14	23 21.33	−73 27.4	0.667	1.468	36.9	18.6	120 W	—	43
7 16	23 16.33	−74 1.0	0.670	1.472	36.7	18.7	120 W	—	42
7 18	23 10.31	−74 32.0	0.674	1.476	36.4	18.7	120 W	—	41
7 20	23 3.25	−75 0.1	0.678	1.481	36.2	18.7	121 W	—	41
7 22	22 55.17	−75 24.8	0.682	1.485	36.0	18.7	121 W	—	41
7 24	22 46.10	−75 45.6	0.687	1.489	35.9	18.7	121 W	—	40
7 26	22 36.14	−76 2.3	0.692	1.493	35.7	18.7	121 W	—	40
7 28	22 25.42	−76 14.5	0.697	1.498	35.6	18.8	121 W	—	40
7 30	22 14.12	−76 21.8	0.702	1.501	35.5	18.8	121 W	—	40
7 31	22 8.32	−76 23.6	0.705	1.503	35.4	18.8	121 W	—	40
8 1	22 2.45	−76 24.1	0.708	1.505	35.4	18.8	121 W	—	40
8 2	21 56.55	−76 23.3	0.711	1.507	35.4	18.8	121 W	—	40
8 3	21 50.64	−76 21.2	0.714	1.509	35.3	18.8	121 W	—	40
8 4	21 44.76	−76 17.8	0.717	1.511	35.3	18.8	121 W	—	40
8 5	21 38.93	−76 13.2	0.720	1.513	35.3	18.8	121 W	—	40
8 6	21 33.18	−76 7.3	0.723	1.515	35.2	18.8	120 W	—	40
8 7	21 27.54	−76 0.1	0.726	1.517	35.2	18.9	120 W	—	40
8 8	21 22.02	−75 51.7	0.729	1.518	35.2	18.9	120 W	—	40
8 9	21 16.66	−75 42.1	0.733	1.520	35.2	18.9	120 W	—	40
8 10	21 11.46	−75 31.4	0.736	1.522	35.2	18.9	120 E	—	40
8 11	21 6.45	−75 19.5	0.740	1.524	35.2	18.9	120 E	—	41
8 12	21 1.64	−75 6.5	0.743	1.525	35.2	18.9	120 E	—	41
8 13	20 57.04	−74 52.6	0.747	1.527	35.2	18.9	120 E	—	41
8 14	20 52.66	−74 37.6	0.750	1.529	35.2	18.9	119 E	—	41
8 15	20 48.50	−74 21.6	0.754	1.530	35.3	19.0	119 E	—	42
8 16	20 44.56	−74 4.8	0.758	1.532	35.3	19.0	119 E	—	42
8 17	20 40.85	−73 47.1	0.762	1.534	35.3	19.0	119 E	—	42
8 18	20 37.38	−73 28.5	0.766	1.535	35.3	19.0	119 E	—	43
8 19	20 34.12	−73 9.2	0.770	1.537	35.4	19.0	119 E	—	43
8 21	20 28.28	−72 28.5	0.779	1.540	35.4	19.0	118 E	—	44
8 23	20 23.30	−71 45.3	0.787	1.543	35.5	19.1	118 E	—	44
8 25	20 19.11	−70 59.8	0.796	1.546	35.6	19.1	117 E	—	45
8 27	20 15.67	−70 12.4	0.805	1.549	35.7	19.1	117 E	—	46
8 29	20 12.92	−69 23.3	0.815	1.551	35.8	19.2	116 E	—	47
8 31	20 10.78	−68 32.8	0.825	1.554	35.9	19.2	115 E	—	47
9 2	20 9.21	−67 41.1	0.835	1.557	36.0	19.2	115 E	—	48
9 4	20 8.15	−66 48.3	0.845	1.559	36.2	19.3	114 E	—	49
9 6	20 7.54	−65 54.7	0.856	1.561	36.3	19.3	114 E	—	50
9 8	20 7.35	−65 0.3	0.867	1.564	36.4	19.3	113 E	—	51
9 10	20 7.53	−64 5.3	0.878	1.566	36.6	19.4	112 E	—	52
9 12	20 8.04	−63 9.7	0.890	1.568	36.7	19.4	111 E	—	53
9 14	20 8.86	−62 13.8	0.902	1.570	36.8	19.4	111 E	—	54
9 16	20 9.95	−61 17.5	0.914	1.572	37.0	19.5	110 E	—	55
9 18	20 11.29	−60 21.0	0.926	1.574	37.1	19.5	109 E	—	56
9 23	20 15.58	−57 59.1	0.958	1.578	37.4	19.6	107 E	—	58
9 28	20 20.95	−55 37.0	0.992	1.582	37.7	19.7	105 E	—	60
10 3	20 27.15	−53 15.4	1.027	1.585	38.0	19.8	103 E	—	63
10 8	20 33.99	−50 54.7	1.064	1.587	38.2	19.9	101 E	—	65
10 13	20 41.33	−48 35.1	1.101	1.589	38.4	20.0	98 E	—	67
10 18	20 49.08	−46 16.8	1.140	1.591	38.5	20.0	96 E	—	70
10 23	20 57.15	−44 0.0	1.180	1.592	38.6	20.1	94 E	1	72
10 28	21 5.47	−41 44.8	1.220	1.592	38.6	20.2	91 E	3	74
11 2	21 13.98	−39 31.1	1.262	1.591	38.6	20.3	89 E	5	76*
11 7	21 22.65	−37 18.9	1.303	1.591	38.5	20.3	87 E	8	77*
11 17	21 40.33	−32 58.7	1.388	1.587	38.1	20.4	82 E	12	76*
11 27	21 58.39	−28 43.6	1.473	1.581	37.5	20.5	77 E	16	71*
12 7	22 16.68	−24 32.8	1.557	1.573	36.7	20.6	73 E	20	64*
12 17	22 35.19	−20 25.7	1.638	1.563	35.7	20.7	68 E	25*	57*
12 27	22 53.92	−16 21.4	1.716	1.550	34.6	20.8	63 E	28*	50*
1 6	23 12.89	−12 19.6	1.790	1.535	33.3	20.8	59 E	31*	43*
1 16	23 32.16	− 8 19.8	1.858	1.518	31.9	20.8	55 E	33*	37*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
165494 2001 BD_{42}									
12 23	14 6.94	− 5 8.3	2.356	2.041	24.5	20.6	59 W	38*	37*
1 2	14 25.14	− 5 10.3	2.283	2.076	25.5	20.6	65 W	39*	43*
1 12	14 42.19	− 4 55.4	2.205	2.111	26.2	20.6	72 W	40*	49*
1 22	14 57.89	− 4 22.6	2.122	2.147	26.6	20.6	78 W	41	55*
2 1	15 11.97	− 3 30.7	2.037	2.183	26.7	20.5	85 W	41	60*
2 11	15 24.17	− 2 19.3	1.951	2.218	26.4	20.5	92 W	43	64*
2 21	15 34.19	− 0 48.3	1.866	2.254	25.6	20.4	100 W	44	65*
3 2	15 41.69	+ 1 1.5	1.786	2.289	24.4	20.3	108 W	46	63
3 12	15 46.37	+ 3 7.7	1.713	2.324	22.6	20.2	116 W	48	61
3 17	15 47.58	+ 4 15.8	1.680	2.342	21.6	20.1	120 W	49	60
3 22	15 48.00	+ 5 26.2	1.651	2.359	20.5	20.1	124 W	50	59
3 27	15 47.63	+ 6 38.2	1.625	2.376	19.2	20.0	128 W	52	57
4 1	15 46.48	+ 7 50.5	1.603	2.393	18.0	20.0	132 W	53	56
4 6	15 44.57	+ 9 1.9	1.586	2.410	16.7	19.9	136 W	54	55
4 11	15 41.96	+10 11.2	1.574	2.427	15.4	19.9	140 W	55	54
4 16	15 38.71	+11 17.1	1.566	2.444	14.3	19.8	143 W	56	53
4 21	15 34.90	+12 18.1	1.565	2.460	13.4	19.8	146 W	57	52
4 26	15 30.64	+13 12.9	1.569	2.477	12.7	19.8	147 W	58	51
5 1	15 26.07	+14 0.4	1.580	2.493	12.3	19.8	148 W	59	50
5 6	15 21.34	+14 39.7	1.596	2.509	12.3	19.8	148 W	60	49
5 11	15 16.57	+15 10.3	1.618	2.525	12.6	19.9	147 W	60	49
5 21	15 7.48	+15 44.7	1.678	2.556	14.0	20.1	142 E	61	48
5 31	14 59.75	+15 44.2	1.760	2.587	15.8	20.3	136 E	61	48
6 10	14 54.06	+15 13.6	1.859	2.617	17.6	20.5	129 E	60	49
6 15	14 52.08	+14 49.0	1.914	2.632	18.4	20.6	125 E	60	49
6 20	14 50.71	+14 19.1	1.973	2.646	19.2	20.7	121 E	59	50
6 25	14 49.94	+13 44.7	2.034	2.661	19.8	20.8	117 E	59	50
6 30	14 49.77	+13 6.5	2.099	2.675	20.4	20.9	114 E	58*	51
7 5	14 50.18	+12 25.4	2.165	2.689	20.8	20.9	110 E	57*	52
7 10	14 51.13	+11 41.8	2.233	2.702	21.2	21.0	106 E	55*	52
7 15	14 52.60	+10 56.4	2.303	2.716	21.4	21.1	103 E	54*	53
7 20	14 54.56	+10 9.4	2.374	2.729	21.6	21.2	99 E	52*	54
7 25	14 56.99	+ 9 21.5	2.445	2.742	21.6	21.3	96 E	50*	55
7 30	14 59.85	+ 8 32.9	2.518	2.755	21.6	21.4	92 E	48*	55
8 4	15 3.11	+ 7 44.0	2.591	2.768	21.5	21.4	89 E	46*	56
8 9	15 6.75	+ 6 55.0	2.664	2.781	21.3	21.5	86 E	45*	57*
345722 2007 BG_{29}									
12 23	14 7.61	+ 8 13.0	1.004	1.076	56.3	20.4	65 W	51*	30*
1 2	14 45.35	+ 5 21.0	0.956	1.048	58.6	20.3	65 W	48*	33*
1 12	15 25.48	+ 2 10.4	0.911	1.012	61.2	20.2	64 W	45*	36*
1 22	16 8.83	− 1 19.2	0.873	0.968	64.4	20.1	63 W	41*	39*
1 27	16 31.96	− 3 10.3	0.857	0.944	66.1	20.1	61 W	39*	40*
2 1	16 56.22	− 5 4.4	0.843	0.917	67.9	20.0	60 W	36*	41*
2 6	17 21.69	− 6 59.8	0.834	0.889	69.7	20.0	58 W	34*	42*
2 11	17 48.46	− 8 54.3	0.829	0.859	71.5	20.0	56 W	31*	42*
2 16	18 16.58	−10 44.5	0.829	0.828	73.2	19.9	53 W	28*	42*
2 21	18 46.03	−12 26.4	0.835	0.796	74.6	19.9	51 W	24*	41*
2 26	19 16.72	−13 55.3	0.847	0.763	75.7	19.9	48 W	21*	40*
3 2	19 48.46	−15 6.3	0.866	0.730	76.2	19.9	46 W	17*	38*
3 7	20 20.99	−15 54.4	0.893	0.696	76.1	19.8	43 W	14*	36*
3 12	20 53.99	−16 15.4	0.928	0.664	75.2	19.8	40 W	10*	34*
3 17	21 27.10	−16 6.2	0.971	0.634	73.3	19.7	38 W	7*	32*
3 22	21 59.95	−15 24.8	1.021	0.606	70.3	19.6	35 W	4*	29*
3 27	22 32.20	−14 11.4	1.077	0.583	66.3	19.5	32 W	1*	26*
4 1	23 3.56	−12 27.5	1.139	0.566	61.3	19.4	30 W	—	23*
4 6	23 33.85	−10 16.6	1.205	0.556	55.5	19.3	27 W	—	21*
4 11	0 2.94	− 7 43.4	1.272	0.554	49.2	19.3	25 W	—	18*
4 16	0 30.79	− 4 54.0	1.338	0.560	42.9	19.2	22 W	—	15*
4 21	0 57.41	− 1 54.7	1.403	0.573	36.8	19.2	20 W	—	13*
4 26	1 22.88	+ 1 8.3	1.465	0.593	31.2	19.2	18 W	—	11*
5 1	1 47.32	+ 4 9.9	1.524	0.618	26.3	19.3	16 W	—	9*
5 6	2 10.87	+ 7 5.8	1.578	0.647	22.0	19.3	14 W	—	7*
5 11	2 33.66	+ 9 53.4	1.630	0.678	18.5	19.4	12 W	—	6*
5 16	2 55.84	+12 30.5	1.677	0.711	15.6	19.4	11 W	—	5*
5 21	3 17.53	+14 56.0	1.722	0.744	13.3	19.5	10 W	—	4*
5 31	3 59.81	+19 9.6	1.801	0.810	10.1	19.7	8 W	—	2*
6 10	4 41.07	+22 32.1	1.869	0.872	8.7	19.9	7 W	—	1*
6 20	5 21.64	+25 4.7	1.926	0.929	8.5	20.0	8 W	—	—
6 30	6 1.63	+26 49.4	1.971	0.978	9.1	20.2	9 W	2*	—
7 10	6 40.99	+27 48.8	2.006	1.020	10.0	20.4	10 W	3*	—
7 20	7 19.66	+28 6.1	2.031	1.054	11.1	20.5	11 W	5*	—
7 30	7 57.50	+27 44.2	2.045	1.081	12.2	20.7	13 W	7*	—
8 9	8 34.43	+26 46.2	2.050	1.099	13.4	20.7	15 W	9*	—
8 19	9 10.44	+25 15.0	2.045	1.109	14.7	20.8	16 W	10*	—
8 29	9 45.57	+23 13.4	2.031	1.111	15.9	20.8	18 W	11*	—
9 8	10 19.96	+20 43.7	2.010	1.105	17.1	20.8	19 W	13*	—
9 18	10 53.83	+17 47.5	1.981	1.091	18.3	20.8	20 W	14*	—
9 28	11 27.45	+14 26.6	1.946	1.069	19.4	20.8	21 W	15*	—

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
345722 2007 BG_{29} *(continuation)*									
10 8	12 1.17	+10 42.1	1.905	1.039	20.4	20.7	21 W	15*	—
10 18	12 35.47	+ 6 34.8	1.861	1.002	21.3	20.6	21 W	15*	—
10 28	13 10.87	+ 2 6.1	1.813	0.956	22.0	20.5	21 W	15*	—
11 7	13 48.09	− 2 42.1	1.765	0.903	22.3	20.3	20 W	14*	1*
11 17	14 28.07	− 7 46.1	1.718	0.844	22.1	20.1	19 W	12*	2*
11 22	14 49.43	−10 21.8	1.696	0.812	21.7	19.9	18 W	11*	2*
11 27	15 11.94	−12 58.1	1.674	0.779	21.0	19.8	16 W	10*	3*
12 2	15 35.79	−15 33.2	1.653	0.746	20.0	19.7	15 W	8*	3*
12 7	16 1.19	−18 4.1	1.633	0.713	18.7	19.5	13 W	6*	3*
12 12	16 28.34	−20 27.5	1.615	0.680	16.9	19.3	12 W	3*	3*
12 17	16 57.41	−22 38.7	1.597	0.648	14.7	19.1	10 W	1*	2*
12 22	17 28.50	−24 32.1	1.581	0.619	12.1	18.9	8 W	—	1*
12 27	18 1.58	−26 1.4	1.565	0.594	9.4	18.7	6 W	—	—
1 1	18 36.43	−26 59.6	1.549	0.574	7.7	18.5	4 W	—	—
1 6	19 12.60	−27 20.6	1.534	0.560	8.7	18.5	5 E	—	—
1 11	19 49.40	−26 59.6	1.518	0.554	12.2	18.6	7 E	—	1*
1 16	20 26.01	−25 55.2	1.503	0.556	16.8	18.7	9 E	—	3*
17493 Wildcat									
12 23	14 8.16	−49 33.7	3.155	2.668	16.9	20.0	52 W	—	44*
1 2	14 26.62	−51 27.4	3.125	2.715	17.6	20.1	57 W	—	48*
1 12	14 44.05	−53 15.0	3.086	2.761	18.3	20.1	62 W	—	51*
1 22	15 0.16	−54 57.2	3.037	2.806	18.9	20.1	67 W	—	54*
1 27	15 7.58	−55 46.4	3.009	2.828	19.1	20.1	70 W	—	55*
2 1	15 14.51	−56 34.4	2.980	2.850	19.3	20.1	73 W	—	56*
2 6	15 20.88	−57 21.2	2.948	2.872	19.4	20.1	76 W	—	57*
2 11	15 26.63	−58 6.7	2.915	2.894	19.6	20.1	79 W	—	57*
2 16	15 31.69	−58 51.1	2.881	2.915	19.6	20.1	82 W	—	57*
2 21	15 35.96	−59 34.2	2.846	2.936	19.6	20.1	85 W	—	56*
2 26	15 39.38	−60 15.8	2.810	2.957	19.6	20.1	89 W	—	56
3 2	15 41.83	−60 55.8	2.773	2.978	19.4	20.1	92 W	—	55
3 7	15 43.26	−61 33.7	2.737	2.999	19.2	20.0	95 W	—	54
3 12	15 43.57	−62 9.3	2.700	3.019	19.0	20.0	99 W	—	54
3 17	15 42.70	−62 41.9	2.664	3.039	18.6	20.0	102 W	—	53
3 22	15 40.57	−63 10.9	2.630	3.059	18.2	20.0	106 W	—	53
3 27	15 37.17	−63 35.4	2.597	3.079	17.8	19.9	110 W	—	52
4 1	15 32.50	−63 54.6	2.566	3.098	17.2	19.9	113 W	—	52
4 6	15 26.64	−64 7.4	2.537	3.118	16.7	19.9	117 W	—	52
4 11	15 19.71	−64 12.9	2.512	3.137	16.0	19.9	120 W	—	52
4 16	15 11.88	−64 10.2	2.490	3.156	15.4	19.8	123 W	—	52
4 21	15 3.39	−63 58.4	2.471	3.174	14.7	19.8	127 W	—	52
4 26	14 54.53	−63 37.1	2.458	3.192	14.1	19.8	129 W	—	52
5 1	14 45.61	−63 5.9	2.449	3.211	13.5	19.8	132 W	—	53
5 6	14 36.94	−62 25.2	2.445	3.229	13.0	19.7	134 E	—	54
5 11	14 28.78	−61 35.5	2.447	3.246	12.6	19.7	136 E	—	54
5 16	14 21.35	−60 37.7	2.454	3.264	12.3	19.8	137 E	—	55
5 21	14 14.79	−59 32.9	2.467	3.281	12.2	19.8	137 E	—	56
5 26	14 9.21	−58 22.3	2.487	3.298	12.2	19.8	137 E	—	58
5 31	14 4.66	−57 7.6	2.512	3.315	12.3	19.8	136 E	—	59
6 5	14 1.14	−55 50.1	2.544	3.331	12.6	19.9	134 E	—	60
6 10	13 58.60	−54 31.3	2.581	3.348	13.0	19.9	132 E	—	61
6 15	13 56.99	−53 12.2	2.624	3.364	13.5	20.0	130 E	—	63
6 20	13 56.25	−51 54.0	2.672	3.380	13.9	20.1	127 E	—	64
6 25	13 56.31	−50 37.7	2.725	3.395	14.4	20.1	124 E	—	65
6 30	13 57.10	−49 24.0	2.783	3.411	14.9	20.2	120 E	—	67
7 5	13 58.55	−48 13.5	2.845	3.426	15.4	20.3	117 E	—	68
7 10	14 0.58	−47 6.6	2.911	3.441	15.8	20.4	113 E	—	69
7 15	14 3.15	−46 3.7	2.980	3.456	16.1	20.4	110 E	—	70
7 20	14 6.20	−45 4.7	3.052	3.470	16.4	20.5	106 E	—	71
7 25	14 9.68	−44 10.0	3.127	3.484	16.6	20.6	102 E	—	72
7 30	14 13.54	−43 19.4	3.204	3.498	16.7	20.6	98 E	—	72*
8 4	14 17.75	−42 33.0	3.282	3.512	16.7	20.7	95 E	—	72*
8 9	14 22.27	−41 50.4	3.362	3.526	16.7	20.8	91 E	—	71*
8 14	14 27.07	−41 11.6	3.442	3.539	16.6	20.8	87 E	—	69*
8 19	14 32.12	−40 36.3	3.523	3.553	16.4	20.9	83 E	—	67*
8 24	14 37.40	−40 4.4	3.604	3.565	16.2	20.9	80 E	—	65*
8 29	14 42.90	−39 35.7	3.684	3.578	15.9	21.0	76 E	—	62*
9 3	14 48.57	−39 9.8	3.764	3.591	15.5	21.0	72 E	—	59*
9 8	14 54.42	−38 46.6	3.842	3.603	15.1	21.0	69 E	—	57*
9 13	15 0.42	−38 25.8	3.919	3.615	14.6	21.1	65 E	—	54*
9 18	15 6.56	−38 7.2	3.994	3.627	14.1	21.1	62 E	—	51*
9 23	15 12.83	−37 50.6	4.067	3.639	13.5	21.1	58 E	—	48*
9 28	15 19.21	−37 35.8	4.138	3.650	12.9	21.2	55 E	—	45*
10 3	15 25.69	−37 22.6	4.206	3.661	12.3	21.2	51 E	—	41*
10 8	15 32.26	−37 10.7	4.271	3.672	11.6	21.2	48 E	—	38*
10 13	15 38.91	−37 0.1	4.333	3.683	10.9	21.2	44 E	—	35*
10 18	15 45.63	−36 50.4	4.391	3.693	10.1	21.2	41 E	—	32*
10 23	15 52.41	−36 41.7	4.446	3.704	9.4	21.2	37 E	—	29*
10 28	15 59.24	−36 33.6	4.497	3.714	8.6	21.2	34 E	—	26*
11 2	16 6.10	−36 26.1	4.543	3.724	7.8	21.2	31 E	—	23*
11 7	16 12.99	−36 19.1	4.586	3.733	7.0	21.2	27 E	—	19*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		17493 Wildcat						*(continuation)*	
	h m	° ′			°	m	°	°	°
11 12	16 19.89	−36 12.3	4.623	3.743	6.2	21.2	24 E	—	16*
11 17	16 26.81	−36 5.8	4.656	3.752	5.5	21.2	21 E	—	13*
11 22	16 33.72	−35 59.5	4.685	3.761	4.8	21.1	18 E	—	10*
11 27	16 40.61	−35 53.1	4.708	3.770	4.2	21.1	16 E	—	7*
12 2	16 47.47	−35 46.7	4.726	3.778	3.7	21.1	14 E	—	4*
12 7	16 54.30	−35 40.2	4.740	3.787	3.4	21.1	13 W	—	1*
12 12	17 1.08	−35 33.5	4.748	3.795	3.3	21.1	13 W	—	3*
12 17	17 7.79	−35 26.6	4.751	3.803	3.6	21.1	14 W	—	6*
12 22	17 14.43	−35 19.4	4.748	3.810	4.0	21.2	16 W	—	9*
12 27	17 20.97	−35 11.9	4.741	3.818	4.6	21.2	18 W	—	12*
1 1	17 27.42	−35 4.1	4.728	3.825	5.2	21.2	21 W	—	15*
1 6	17 33.75	−34 55.9	4.710	3.832	6.0	21.3	24 W	—	18*
1 11	17 39.94	−34 47.5	4.687	3.839	6.7	21.3	27 W	—	21*
1 16	17 46.00	−34 38.7	4.659	3.846	7.5	21.3	31 W	—	25*
		415987 2002 AE_9							
12 23	14 9.75	+ 3 32.1	0.974	1.019	59.1	21.1	63 W	46*	32*
12 28	14 39.85	+ 3 38.2	0.947	0.981	61.3	21.0	61 W	46*	30*
1 2	15 11.40	+ 3 40.5	0.930	0.942	63.4	21.0	59 W	45*	29*
1 7	15 43.97	+ 3 36.8	0.923	0.902	65.2	20.9	56 W	44*	27*
1 12	16 17.04	+ 3 25.2	0.927	0.863	66.5	20.9	54 W	42*	25*
1 17	16 50.06	+ 3 4.0	0.942	0.824	67.3	20.8	51 W	40*	23*
1 22	17 22.55	+ 2 32.6	0.967	0.787	67.4	20.8	48 W	37*	21*
1 27	17 54.14	+ 1 51.0	1.001	0.751	66.6	20.7	44 W	35*	20*
2 1	18 24.66	+ 0 59.7	1.043	0.718	65.0	20.7	41 W	32*	19*
2 6	18 54.10	− 0 0.2	1.092	0.689	62.5	20.6	38 W	29*	18*
2 11	19 22.55	− 1 6.8	1.145	0.665	59.2	20.5	35 W	26*	18*
2 16	19 50.18	− 2 17.7	1.201	0.647	55.3	20.5	33 W	22*	17*
2 21	20 17.15	− 3 30.2	1.258	0.636	50.9	20.4	30 W	19*	17*
2 26	20 43.61	− 4 41.1	1.314	0.633	46.4	20.4	28 W	16*	17*
3 2	21 9.62	− 5 47.3	1.369	0.638	42.0	20.3	25 W	13*	16*
3 7	21 35.20	− 6 46.2	1.421	0.650	38.0	20.4	24 W	9*	16*
3 12	22 0.33	− 7 35.6	1.469	0.670	34.6	20.4	22 W	6*	16*
3 22	22 49.02	− 8 42.0	1.558	0.725	29.9	20.6	21 W	1*	15*
4 1	23 35.20	− 9 6.2	1.635	0.795	27.5	20.8	22 W	—	15*
4 11	0 18.61	− 8 55.7	1.704	0.872	26.5	21.1	23 W	—	15*
4 21	0 59.23	− 8 20.3	1.767	0.951	26.1	21.3	25 W	—	15*
		425711 2011 BZ_{22}							
12 23	14 10.17	−34 5.8	2.205	1.766	25.8	20.6	51 W	10*	45*
12 28	14 24.62	−35 51.2	2.162	1.753	26.6	20.6	53 W	8*	47*
1 2	14 39.64	−37 33.5	2.121	1.741	27.3	20.6	54 W	7*	48*
1 7	14 55.23	−39 11.8	2.080	1.730	28.0	20.5	56 W	5*	50*
1 12	15 11.43	−40 45.3	2.040	1.719	28.7	20.5	57 W	4*	51*
1 17	15 28.25	−42 13.2	2.002	1.709	29.4	20.5	59 W	2*	52*
1 22	15 45.65	−43 34.7	1.965	1.700	30.1	20.4	60 W	1*	53*
1 27	16 3.63	−44 48.9	1.929	1.692	30.7	20.4	61 W	—	54*
2 1	16 22.11	−45 55.2	1.894	1.684	31.3	20.4	63 W	—	54*
2 6	16 41.02	−46 52.8	1.860	1.678	31.8	20.3	64 W	—	54*
2 11	17 0.27	−47 41.1	1.826	1.672	32.4	20.3	65 W	—	55*
2 16	17 19.75	−48 19.8	1.794	1.668	32.9	20.3	66 W	—	55*
2 21	17 39.32	−48 48.8	1.762	1.664	33.4	20.2	68 W	—	55*
2 26	17 58.80	−49 7.9	1.731	1.661	33.8	20.2	69 W	—	56*
3 2	18 18.05	−49 17.3	1.701	1.660	34.3	20.2	71 W	—	56*
3 7	18 36.91	−49 17.4	1.670	1.659	34.7	20.1	72 W	—	57*
3 12	18 55.25	−49 8.7	1.640	1.659	35.0	20.1	74 W	—	57*
3 17	19 12.94	−48 52.1	1.610	1.660	35.4	20.1	75 W	—	58*
3 22	19 29.86	−48 28.2	1.580	1.663	35.7	20.1	77 W	—	59*
3 27	19 45.92	−47 57.9	1.549	1.666	35.9	20.0	78 W	—	60*
4 1	20 1.06	−47 22.1	1.518	1.670	36.1	20.0	80 W	—	61*
4 6	20 15.22	−46 41.8	1.487	1.675	36.3	20.0	82 W	—	63*
4 11	20 28.38	−45 57.6	1.456	1.681	36.4	19.9	84 W	—	64*
4 21	20 51.57	−44 21.3	1.391	1.696	36.3	19.8	89 W	—	68*
5 1	21 10.45	−42 38.9	1.325	1.714	35.9	19.7	94 W	—	72*
5 11	21 24.87	−40 54.6	1.258	1.735	35.1	19.6	99 W	—	75*
5 21	21 34.64	−39 11.0	1.190	1.760	33.6	19.5	106 W	2*	77
5 31	21 39.41	−37 29.1	1.124	1.787	31.4	19.4	113 W	5*	79
6 10	21 38.90	−35 47.1	1.063	1.817	28.3	19.2	122 W	8*	80
6 20	21 32.90	−34 1.2	1.010	1.849	24.3	19.0	132 W	11*	82
6 25	21 27.88	−33 4.9	0.988	1.865	21.8	18.9	137 W	12	83
6 30	21 21.62	−32 5.3	0.971	1.882	19.1	18.8	143 W	13	84
7 5	21 14.30	−31 1.7	0.957	1.900	16.2	18.7	148 W	14	85
7 10	21 6.12	−29 53.5	0.950	1.918	13.2	18.6	155 W	15	86
7 15	20 57.32	−28 40.7	0.948	1.936	10.0	18.5	161 W	16	87
7 20	20 48.23	−27 23.8	0.952	1.955	6.8	18.4	167 W	18	89
7 25	20 39.15	−26 3.6	0.963	1.974	4.1	18.3	172 W	19	90
7 30	20 30.42	−24 41.3	0.981	1.993	3.3	18.3	174 E	20	89
8 4	20 22.30	−23 18.6	1.006	2.013	5.1	18.5	170 E	22	87
8 9	20 14.99	−21 56.9	1.038	2.033	7.8	18.7	164 E	23	86
8 14	20 8.64	−20 37.6	1.076	2.053	10.4	18.9	158 E	24	85
8 19	20 3.35	−19 21.9	1.121	2.073	12.9	19.1	153 E	26	83

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		425711 2011 BZ_{22}						*(continuation)*	
	h m	° ′			°	m	°	°	°
8 29	19 56.05	−17 3.4	1.226	2.113	17.2	19.5	142 E	28	81
9 8	19 52.93	−15 3.3	1.350	2.155	20.5	19.8	132 E	30	79
9 18	19 53.47	−13 19.8	1.489	2.196	22.8	20.2	122 E	32	77
9 28	19 57.09	−11 49.4	1.639	2.238	24.2	20.5	114 E	33	76
10 8	20 3.21	−10 28.0	1.798	2.280	25.0	20.7	106 E	35	74
10 18	20 11.32	− 9 12.2	1.962	2.322	25.1	21.0	98 E	36	73*
10 28	20 21.02	− 7 58.9	2.129	2.363	24.9	21.2	91 E	37	69*
11 7	20 31.96	− 6 45.8	2.297	2.405	24.2	21.3	84 E	38	63*
		200175 1999 JH_{14}							
12 23	14 10.86	+ 6 15.7	1.836	1.657	32.2	19.8	64 W	49*	30*
1 2	14 33.34	+ 4 20.5	1.777	1.671	33.0	19.7	68 W	48*	36*
1 12	14 54.58	+ 2 35.3	1.716	1.687	33.6	19.7	72 W	47*	42*
1 22	15 14.43	+ 1 0.5	1.652	1.707	34.0	19.7	76 W	46*	48*
2 1	15 32.67	− 0 24.2	1.585	1.728	34.2	19.6	81 W	45*	55*
2 11	15 49.03	− 1 39.7	1.514	1.752	34.2	19.5	86 W	43	60*
2 21	16 3.21	− 2 47.7	1.441	1.778	33.8	19.5	92 W	42	65*
3 2	16 14.82	− 3 50.3	1.367	1.806	32.8	19.3	99 W	41	68*
3 12	16 23.42	− 4 50.7	1.293	1.835	31.4	19.2	106 W	40	69
3 22	16 28.55	− 5 52.2	1.221	1.866	29.1	19.1	114 W	39	70
4 1	16 29.71	− 6 58.5	1.154	1.897	26.1	18.9	123 W	38	71
4 11	16 26.56	− 8 13.3	1.098	1.930	22.1	18.7	134 W	37	72
4 21	16 19.08	− 9 38.6	1.055	1.963	17.2	18.5	145 W	35	74
5 1	16 7.73	−11 14.2	1.031	1.997	11.5	18.3	157 W	34	75
5 6	16 0.97	−12 5.0	1.028	2.014	8.5	18.2	163 W	33	76
5 11	15 53.77	−12 57.1	1.031	2.031	5.5	18.1	169 W	32	77
5 16	15 46.35	−13 49.5	1.041	2.049	3.1	18.0	174 W	31	78
5 21	15 38.97	−14 41.8	1.057	2.066	3.1	18.0	174 E	30	79
5 26	15 31.87	−15 33.2	1.080	2.083	5.3	18.2	169 E	29	80
5 31	15 25.28	−16 23.5	1.109	2.101	8.0	18.4	163 E	29	80
6 5	15 19.38	−17 12.3	1.145	2.118	10.6	18.6	157 E	28	81
6 10	15 14.28	−17 59.6	1.187	2.135	13.0	18.8	152 E	27	82
6 20	15 6.82	−19 29.4	1.285	2.170	17.2	19.1	141 E	26	83
6 30	15 3.16	−20 54.1	1.402	2.205	20.4	19.5	131 E	24	85
7 10	15 3.11	−22 15.0	1.532	2.239	22.8	19.8	122 E	22*	86
7 20	15 6.26	−23 33.0	1.673	2.273	24.3	20.0	113 E	20*	88
7 30	15 12.20	−24 48.7	1.821	2.306	25.1	20.3	105 E	18*	89
8 9	15 20.51	−26 2.0	1.974	2.339	25.4	20.5	98 E	15*	90
8 19	15 30.82	−27 12.6	2.130	2.372	25.3	20.7	91 E	13*	84*
8 29	15 42.87	−28 20.1	2.287	2.404	24.7	20.8	84 E	12*	77*
9 8	15 56.38	−29 23.8	2.442	2.435	23.8	21.0	78 E	10*	71*
9 18	16 11.15	−30 23.1	2.594	2.465	22.7	21.1	71 E	9*	64*
9 28	16 27.04	−31 17.2	2.742	2.495	21.4	21.2	65 E	8*	59*
10 8	16 43.86	−32 5.4	2.883	2.525	19.9	21.3	59 E	6*	53*
10 18	17 1.50	−32 47.2	3.018	2.553	18.3	21.4	53 E	5*	47*
10 28	17 19.82	−33 21.9	3.144	2.581	16.5	21.4	48 E	4*	41*
11 7	17 38.68	−33 49.2	3.260	2.607	14.7	21.5	42 E	3*	36*
11 17	17 57.99	−34 8.6	3.366	2.633	12.8	21.5	36 E	2*	30*
		1065 Amundsenia							
12 23	14 10.94	−18 52.5	3.045	2.590	17.9	17.5	54 W	24*	42*
1 2	14 25.65	−20 29.1	2.903	2.560	19.5	17.4	60 W	24*	49*
1 12	14 40.10	−22 2.8	2.754	2.531	20.9	17.3	67 W	23*	57*
1 22	14 54.14	−23 33.4	2.600	2.500	22.1	17.2	73 W	21	65*
2 1	15 7.59	−25 0.8	2.442	2.469	23.1	17.1	80 W	20	73*
2 11	15 20.23	−26 25.1	2.282	2.437	23.8	16.9	87 W	19	81*
2 21	15 31.78	−27 46.5	2.123	2.405	24.2	16.8	94 W	17	88*
3 2	15 41.90	−29 5.1	1.966	2.372	24.2	16.6	102 W	16	87
3 12	15 50.19	−30 21.0	1.814	2.339	23.6	16.4	109 W	15	86
3 22	15 56.17	−31 34.0	1.669	2.305	22.5	16.1	118 W	13	84
3 27	15 58.13	−32 9.1	1.600	2.288	21.8	16.0	122 W	13	84
4 1	15 59.32	−32 42.9	1.533	2.271	20.8	15.8	126 W	12	83
4 6	15 59.67	−33 15.1	1.470	2.254	19.7	15.7	131 W	12	83
4 11	15 59.15	−33 45.3	1.411	2.236	18.4	15.5	135 W	11	82
4 21	15 55.30	−34 37.5	1.304	2.202	15.3	15.2	145 W	10	81
5 1	15 47.77	−35 13.3	1.216	2.167	11.8	14.9	154 W	10	81
5 11	15 37.19	−35 26.6	1.150	2.132	8.6	14.6	162 W	10	81
5 16	15 31.14	−35 23.3	1.125	2.115	7.7	14.5	164 E	10	81
5 21	15 24.86	−35 13.0	1.106	2.097	7.7	14.5	164 E	10	81
5 26	15 18.62	−34 55.9	1.093	2.080	8.7	14.5	162 E	10	81
5 31	15 12.66	−34 32.9	1.086	2.063	10.4	14.5	158 E	10	81
6 5	15 7.24	−34 5.0	1.084	2.045	12.5	14.6	154 E	11	82
6 10	15 2.54	−33 33.4	1.087	2.028	14.7	14.6	149 E	11	82
6 15	14 58.72	−32 59.6	1.095	2.011	17.0	14.7	145 E	12	83
6 20	14 55.89	−32 24.9	1.108	1.994	19.2	14.8	140 E	13	84
6 25	14 54.14	−31 50.7	1.124	1.978	21.3	14.9	135 E	13	84
6 30	14 53.50	−31 18.1	1.144	1.961	23.3	15.0	130 E	14*	85
7 5	14 53.96	−30 47.9	1.167	1.945	25.1	15.0	126 E	14*	85
7 10	14 55.49	−30 20.7	1.192	1.929	26.7	15.1	121 E	14*	86

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		1065 Amundsenia *(continuation)*							
	h m	° ′			°	m	°	°	°
7 20	15 1.60	−29 36.4	1.249	1.897	29.5	15.3	113 E	14*	86
7 30	15 11.47	−29 5.7	1.311	1.866	31.5	15.4	106 E	13*	87
8 9	15 24.63	−28 46.9	1.376	1.837	33.0	15.5	99 E	13*	87
8 19	15 40.68	−28 36.6	1.443	1.809	33.9	15.6	93 E	13*	86*
8 29	15 59.27	−28 31.3	1.511	1.783	34.5	15.7	88 E	13*	81*
9 8	16 20.07	−28 26.9	1.579	1.759	34.6	15.7	83 E	13*	76*
9 18	16 42.78	−28 19.3	1.646	1.737	34.4	15.8	78 E	13*	71*
9 28	17 7.12	−28 4.9	1.712	1.718	34.0	15.9	73 E	14*	67*
10 8	17 32.79	−27 40.3	1.777	1.701	33.3	15.9	69 E	14*	63*
10 18	17 59.49	−27 2.7	1.842	1.686	32.4	15.9	65 E	15*	59*
10 28	18 26.95	−26 10.1	1.907	1.675	31.4	16.0	61 E	16*	55*
11 7	18 54.83	−25 0.9	1.970	1.666	30.2	16.0	58 E	17*	51*
11 17	19 22.89	−23 34.7	2.034	1.661	28.8	16.0	54 E	19*	46*
11 27	19 50.89	−21 51.6	2.098	1.659	27.4	16.0	51 E	20*	41*
12 7	20 18.60	−19 52.6	2.162	1.660	25.9	16.1	47 E	21*	36*
12 17	20 45.91	−17 38.9	2.226	1.664	24.2	16.1	44 E	23*	31*
12 27	21 12.71	−15 12.5	2.291	1.671	22.5	16.1	41 E	23*	27*
1 6	21 38.94	−12 35.5	2.355	1.682	20.7	16.1	37 E	23*	22*
1 16	22 4.59	− 9 50.3	2.419	1.695	18.9	16.1	34 E	23*	18*
		414008 2007 GN_{49}							
12 23	14 11.02	−12 16.5	2.497	2.108	22.7	21.4	56 W	31*	39*
1 2	14 27.99	−12 17.3	2.433	2.156	23.8	21.4	62 W	32*	46*
1 12	14 43.64	−12 2.4	2.360	2.204	24.6	21.4	69 W	33*	53*
1 22	14 57.78	−11 30.8	2.280	2.251	25.1	21.4	76 W	33	59*
2 1	15 10.16	−10 41.4	2.195	2.298	25.2	21.4	83 W	34	66*
2 11	15 20.53	− 9 33.4	2.108	2.345	24.9	21.3	91 W	35	71*
2 21	15 28.61	− 8 6.5	2.020	2.392	24.1	21.2	100 W	37	72*
3 2	15 34.11	− 6 20.7	1.937	2.438	22.7	21.2	108 W	39	70
3 12	15 36.80	− 4 17.3	1.861	2.483	20.8	21.0	118 W	41	68
3 22	15 36.55	− 1 59.3	1.797	2.528	18.3	20.9	127 W	43	66
4 1	15 33.36	+ 0 28.0	1.750	2.573	15.4	20.8	137 W	45	64
4 11	15 27.54	+ 2 56.7	1.725	2.616	12.4	20.7	146 W	48	61
4 21	15 19.65	+ 5 17.2	1.724	2.659	9.9	20.6	153 W	50	59
5 1	15 10.53	+ 7 19.6	1.750	2.701	8.8	20.7	156 W	52	57
5 11	15 1.20	+ 8 55.9	1.803	2.742	9.6	20.8	153 E	54	55
5 21	14 52.61	+10 2.1	1.882	2.783	11.6	21.0	146 E	55	54
5 31	14 45.54	+10 37.8	1.984	2.822	13.8	21.2	138 E	56	53
6 10	14 40.48	+10 46.2	2.105	2.861	15.9	21.5	130 E	56	53
		370307 2002 RH_{52}							
12 23	14 11.70	−12 23.2	1.670	1.379	36.1	20.2	56 W	31*	39*
1 2	14 32.36	−15 36.3	1.661	1.448	36.0	20.3	60 W	29*	46*
1 12	14 51.44	−18 34.0	1.643	1.517	36.0	20.4	65 W	26*	53*
1 22	15 8.81	−21 18.6	1.614	1.586	35.8	20.4	71 W	24*	61*
2 1	15 24.20	−23 52.1	1.576	1.654	35.4	20.4	77 W	21	69*
2 11	15 37.26	−26 16.7	1.531	1.721	34.7	20.4	83 W	19	77*
2 21	15 47.56	−28 34.5	1.480	1.788	33.6	20.4	91 W	16	84*
3 2	15 54.52	−30 47.0	1.425	1.852	32.0	20.4	98 W	14	85
3 7	15 56.55	−31 51.3	1.397	1.884	30.9	20.3	103 W	13	84
3 12	15 57.52	−32 54.2	1.370	1.915	29.7	20.3	107 W	12	83
3 17	15 57.33	−33 55.3	1.344	1.946	28.4	20.2	112 W	11	82
3 22	15 55.91	−34 54.1	1.319	1.976	26.8	20.2	116 W	10	81
3 27	15 53.21	−35 49.8	1.296	2.006	25.1	20.1	121 W	9	80
4 1	15 49.19	−36 41.3	1.276	2.035	23.2	20.1	126 W	8	79
4 6	15 43.89	−37 27.5	1.259	2.064	21.2	20.0	132 W	8	79
4 11	15 37.37	−38 7.0	1.246	2.093	19.1	20.0	137 W	7	78
4 16	15 29.76	−38 38.6	1.238	2.121	17.0	19.9	142 W	6	77
4 21	15 21.25	−39 1.0	1.235	2.148	14.8	19.8	147 W	6	77
4 26	15 12.10	−39 13.2	1.238	2.176	12.8	19.8	151 W	6	77
5 1	15 2.63	−39 15.0	1.247	2.202	11.2	19.8	155 W	6	77
5 6	14 53.18	−39 6.7	1.263	2.228	10.0	19.8	157 W	6	77
5 11	14 44.07	−38 49.2	1.285	2.254	9.6	19.8	158 E	6	77
5 16	14 35.55	−38 23.9	1.313	2.279	9.9	19.9	157 E	7	78
5 21	14 27.86	−37 52.4	1.348	2.303	10.9	20.0	155 E	7	78
5 26	14 21.16	−37 16.6	1.389	2.328	12.1	20.2	151 E	8	79
5 31	14 15.54	−36 38.4	1.435	2.351	13.6	20.3	147 E	8	79
6 5	14 11.05	−35 59.7	1.487	2.374	15.1	20.5	143 E	9	80
6 10	14 7.66	−35 21.7	1.544	2.397	16.5	20.6	138 E	10	81
6 15	14 5.33	−34 45.5	1.605	2.419	17.7	20.8	133 E	10	81
6 20	14 4.00	−34 12.0	1.671	2.441	18.9	20.9	129 E	11*	82
6 25	14 3.62	−33 41.8	1.740	2.462	19.9	21.1	124 E	11*	82
6 30	14 4.09	−33 15.2	1.811	2.483	20.7	21.2	120 E	11*	83
7 5	14 5.34	−32 52.4	1.886	2.503	21.4	21.3	116 E	10*	83
7 10	14 7.31	−32 33.3	1.962	2.523	22.0	21.4	112 E	10*	83
		20826 2000 UV_{13}							
12 23	14 13.01	− 2 42.9	0.985	0.971	60.4	16.0	59 W	40*	35*
12 28	14 31.97	− 7 56.0	0.976	0.945	61.6	15.9	58 W	35*	38*
1 2	14 51.83	−13 10.3	0.974	0.924	62.4	15.9	56 W	30*	41*
1 7	15 12.79	−18 19.2	0.978	0.908	62.7	15.9	55 W	25*	43*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		20826 2000 UV_{13} *(continuation)*							
	h m	° ′			°	m	°	°	°
1 12	15 35.04	−23 15.3	0.990	0.896	62.6	15.9	54 W	20*	45*
1 17	15 58.72	−27 51.4	1.009	0.891	62.0	15.9	53 W	15*	46*
1 22	16 23.87	−32 1.0	1.033	0.892	61.0	15.9	52 W	11*	46*
1 27	16 50.41	−35 39.1	1.062	0.898	59.6	15.9	52 W	7*	46*
2 1	17 18.10	−38 42.1	1.096	0.910	57.9	16.0	52 W	3*	45*
2 6	17 46.54	−41 8.6	1.133	0.927	56.1	16.0	51 W	—	44*
2 11	18 15.25	−42 59.1	1.171	0.950	54.2	16.1	51 W	—	43*
2 16	18 43.67	−44 16.0	1.211	0.976	52.3	16.2	51 W	—	42*
2 21	19 11.26	−45 2.9	1.251	1.007	50.5	16.3	52 W	—	41*
2 26	19 37.60	−45 24.2	1.291	1.040	48.8	16.4	52 W	—	41*
3 2	20 2.35	−45 24.6	1.329	1.077	47.2	16.5	53 W	—	40*
3 7	20 25.36	−45 8.6	1.366	1.115	45.8	16.6	54 W	—	40*
3 12	20 46.58	−44 40.3	1.401	1.156	44.5	16.7	55 W	—	41*
3 17	21 6.05	−44 3.2	1.433	1.198	43.3	16.7	56 W	—	41*
3 22	21 23.86	−43 20.5	1.462	1.241	42.3	16.8	57 W	—	42*
3 27	21 40.10	−42 34.4	1.488	1.284	41.4	16.9	58 W	—	43*
4 1	21 54.89	−41 47.0	1.510	1.329	40.6	17.0	60 W	—	44*
4 6	22 8.37	−40 59.8	1.529	1.374	39.9	17.1	62 W	—	46*
4 11	22 20.64	−40 13.9	1.545	1.419	39.2	17.2	64 W	—	48*
4 16	22 31.80	−39 30.4	1.557	1.464	38.6	17.2	66 W	—	50*
4 21	22 41.92	−38 50.1	1.566	1.509	38.1	17.3	68 W	—	52*
4 26	22 51.08	−38 13.6	1.571	1.554	37.6	17.4	70 W	—	55*
5 1	22 59.31	−37 41.4	1.573	1.599	37.0	17.4	73 W	—	58*
5 11	23 13.10	−36 51.5	1.568	1.687	35.9	17.5	79 W	—	64*
5 21	23 23.45	−36 23.0	1.551	1.775	34.6	17.5	85 W	—	70*
5 31	23 30.20	−36 17.4	1.526	1.860	33.0	17.6	92 W	—	76*
6 10	23 33.11	−36 34.9	1.494	1.944	31.0	17.5	100 W	1*	79*
6 15	23 32.99	−36 51.9	1.478	1.985	29.8	17.5	104 W	2*	79
6 20	23 31.75	−37 13.9	1.462	2.026	28.4	17.5	108 W	3*	79
6 25	23 29.32	−37 40.1	1.446	2.066	27.0	17.5	113 W	4*	78
6 30	23 25.65	−38 9.6	1.432	2.106	25.3	17.5	118 W	5*	78
7 5	23 20.72	−38 41.0	1.420	2.145	23.6	17.4	122 W	6*	77
7 10	23 14.52	−39 12.9	1.412	2.183	21.7	17.4	127 W	6*	77
7 15	23 7.08	−39 43.6	1.407	2.221	19.8	17.4	132 W	5	76
7 20	22 58.49	−40 11.1	1.406	2.259	17.8	17.3	137 W	5	76
7 25	22 48.89	−40 33.3	1.411	2.296	15.9	17.3	142 W	4	75
7 30	22 38.50	−40 48.4	1.421	2.332	14.1	17.3	146 W	4	75
8 4	22 27.60	−40 54.9	1.439	2.368	12.6	17.3	149 W	4	75
8 9	22 16.50	−40 51.8	1.462	2.404	11.5	17.3	152 W	4	75
8 14	22 5.50	−40 38.9	1.493	2.439	10.9	17.4	153 W	4	75
8 19	21 54.91	−40 16.3	1.531	2.473	10.9	17.5	153 W	5	76
8 24	21 45.01	−39 44.9	1.576	2.507	11.4	17.6	151 E	5	76
8 29	21 36.01	−39 5.7	1.628	2.541	12.2	17.7	148 E	6	77
9 3	21 28.04	−38 20.2	1.687	2.574	13.2	17.9	144 E	7	78
9 8	21 21.18	−37 29.9	1.752	2.607	14.3	18.0	140 E	8	79
9 13	21 15.44	−36 36.2	1.822	2.639	15.4	18.2	136 E	8	79
9 18	21 10.82	−35 40.2	1.898	2.670	16.4	18.3	131 E	9	80
9 23	21 7.26	−34 42.9	1.979	2.701	17.3	18.5	127 E	10	81
9 28	21 4.71	−33 45.0	2.064	2.732	18.1	18.6	122 E	11	82
10 3	21 3.08	−32 47.3	2.152	2.762	18.7	18.7	118 E	12	83
10 8	21 2.28	−31 50.1	2.244	2.792	19.2	18.9	113 E	13	84
10 13	21 2.25	−30 53.6	2.338	2.821	19.6	19.0	109 E	14	85
10 18	21 2.89	−29 58.1	2.435	2.850	19.8	19.1	104 E	15	86
10 28	21 5.96	−28 10.0	2.632	2.906	19.9	19.3	96 E	17	88
11 7	21 10.95	−26 25.8	2.833	2.961	19.5	19.5	88 E	19	81*
11 17	21 17.46	−24 45.0	3.033	3.013	18.8	19.7	79 E	20	72*
11 27	21 25.14	−23 6.8	3.229	3.064	17.8	19.8	72 E	22	63*
12 7	21 33.72	−21 30.7	3.418	3.114	16.5	19.9	64 E	23*	54*
12 17	21 42.98	−19 56.0	3.599	3.162	15.0	20.0	56 E	24*	45*
12 27	21 52.74	−18 22.3	3.768	3.208	13.4	20.1	49 E	24*	37*
1 6	22 2.84	−16 49.4	3.923	3.253	11.6	20.1	41 E	22*	29*
1 16	22 13.17	−15 17.0	4.063	3.296	9.7	20.2	34 E	19*	22*
		277142 2005 LG_8							
12 23	14 13.59	−22 57.9	1.906	1.518	30.8	20.3	52 W	20*	42*
1 2	14 26.24	−23 38.2	1.904	1.637	31.1	20.5	59 W	21*	50*
1 12	14 36.50	−24 6.9	1.881	1.748	31.2	20.6	67 W	21*	58*
1 22	14 44.15	−24 23.8	1.840	1.853	30.9	20.7	75 W	21	67*
2 1	14 48.81	−24 27.7	1.786	1.951	30.2	20.7	84 W	21	77*
2 11	14 50.10	−24 16.5	1.722	2.044	28.8	20.7	94 W	21	87*
2 21	14 47.63	−23 47.4	1.654	2.132	26.6	20.6	105 W	21	88
3 2	14 41.08	−22 56.5	1.588	2.215	23.6	20.5	116 W	22	87
3 12	14 30.47	−21 39.7	1.533	2.294	19.6	20.4	129 W	23	86
3 22	14 16.26	−19 54.9	1.497	2.368	14.8	20.3	143 W	25	84
3 27	14 8.12	−18 52.4	1.488	2.403	12.1	20.2	150 W	26	83
4 1	13 59.54	−17 44.1	1.487	2.438	9.2	20.1	157 W	27	82
4 6	13 50.75	−16 31.3	1.494	2.472	6.4	20.0	164 W	28	81
4 11	13 41.96	−15 15.6	1.510	2.504	3.6	19.9	171 W	30	79
4 16	13 33.41	−13 58.8	1.534	2.536	1.6	19.9	176 E	31	78

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
277142 2005 LG_8 *(continuation)*									
4 21	13 25.26	−12 42.7	1.567	2.567	2.9	20.0	172 E	32	77
4 26	13 17.71	−11 29.2	1.609	2.597	5.4	20.2	166 E	34	75
5 1	13 10.86	−10 19.6	1.659	2.626	7.8	20.5	159 E	35	74
5 6	13 4.82	− 9 15.3	1.717	2.654	10.0	20.6	153 E	36	73
5 11	12 59.61	− 8 17.0	1.782	2.682	12.0	20.8	146 E	37	72
5 16	12 55.24	− 7 25.2	1.853	2.709	13.8	21.0	140 E	38	71
5 21	12 51.72	− 6 39.9	1.929	2.734	15.4	21.2	134 E	38	71
5 26	12 49.00	− 6 1.3	2.011	2.759	16.7	21.3	129 E	39	70
5 31	12 47.05	− 5 29.1	2.096	2.784	17.7	21.5	123 E	40*	69
306919 2001 UU_{17}									
12 23	14 13.81	− 9 41.9	2.501	2.116	22.7	20.7	56 W	33*	38*
1 2	14 30.89	− 9 34.7	2.435	2.163	23.8	20.7	62 W	35*	44*
1 12	14 46.68	− 9 11.3	2.362	2.210	24.6	20.7	69 W	36*	51*
1 22	15 1.02	− 8 30.6	2.282	2.256	25.0	20.7	76 W	36*	57*
2 1	15 13.64	− 7 31.6	2.198	2.303	25.1	20.7	83 W	37	63*
2 11	15 24.29	− 6 13.6	2.113	2.349	24.8	20.6	91 W	39	67*
2 21	15 32.70	− 4 36.3	2.027	2.395	24.0	20.6	99 W	40	69*
3 2	15 38.59	− 2 40.4	1.946	2.440	22.7	20.5	108 W	42	67
3 12	15 41.71	− 0 27.7	1.873	2.485	20.9	20.4	117 W	45	64
3 22	15 41.91	+ 1 58.2	1.813	2.529	18.6	20.3	126 W	47	62
3 27	15 40.91	+ 3 14.2	1.788	2.551	17.3	20.2	130 W	48	61
4 1	15 39.18	+ 4 31.0	1.769	2.573	16.0	20.2	135 W	50	59
4 6	15 36.78	+ 5 47.4	1.754	2.595	14.6	20.1	139 W	51	58
4 11	15 33.77	+ 7 2.1	1.745	2.616	13.3	20.1	143 W	52	57
4 16	15 30.21	+ 8 14.0	1.742	2.637	12.2	20.0	146 W	53	56
4 21	15 26.20	+ 9 21.7	1.745	2.658	11.2	20.0	149 W	54	55
4 26	15 21.84	+10 24.0	1.755	2.679	10.5	20.0	151 W	55	54
5 1	15 17.27	+11 19.7	1.771	2.700	10.3	20.1	151 W	56	53
5 6	15 12.60	+12 8.1	1.794	2.721	10.4	20.1	151 W	57	52
5 11	15 7.98	+12 48.6	1.823	2.741	10.8	20.2	149 E	58	51
5 21	14 59.28	+13 45.2	1.900	2.781	12.4	20.4	144 E	59	50
5 31	14 52.00	+14 9.7	1.998	2.820	14.4	20.6	136 E	59	50
6 10	14 46.66	+14 5.9	2.116	2.859	16.2	20.8	128 E	59	50
6 20	14 43.49	+13 38.9	2.248	2.896	17.6	21.0	120 E	59	50
6 30	14 42.53	+12 54.0	2.392	2.933	18.7	21.2	112 E	58*	51
7 10	14 43.67	+11 56.1	2.543	2.969	19.3	21.4	105 E	55*	52
310429 1999 XP_{19}									
12 23	14 14.65	−11 44.4	2.783	2.364	20.0	20.8	55 W	31*	38*
1 2	14 28.13	−13 0.1	2.715	2.412	21.1	20.8	62 W	31*	46*
1 12	14 40.37	−14 6.8	2.636	2.459	21.9	20.8	69 W	31*	54*
1 22	14 51.16	−15 4.4	2.550	2.506	22.4	20.8	76 W	30	63*
2 1	15 0.26	−15 52.9	2.457	2.552	22.6	20.8	84 W	29	71*
2 11	15 7.39	−16 32.4	2.360	2.596	22.3	20.7	92 W	28	78*
2 21	15 12.27	−17 2.7	2.262	2.640	21.6	20.6	101 W	28	81
3 2	15 14.60	−17 23.8	2.167	2.682	20.2	20.5	111 W	28	81
3 12	15 14.16	−17 35.2	2.079	2.724	18.3	20.4	121 W	27	82
3 22	15 10.86	−17 36.6	2.002	2.765	15.7	20.3	131 W	27	82
4 1	15 4.78	−17 27.7	1.942	2.804	12.4	20.1	143 W	28	81
4 11	14 56.35	−17 8.7	1.904	2.842	8.7	20.0	155 W	28	81
4 21	14 46.27	−16 41.1	1.892	2.880	4.6	19.8	167 W	28	81
4 26	14 40.91	−16 24.9	1.897	2.898	2.4	19.7	173 W	29	80
5 1	14 35.51	−16 7.6	1.908	2.916	0.4	19.5	179 W	29	80
5 6	14 30.22	−15 50.0	1.928	2.934	1.9	19.7	175 E	29	80
5 11	14 25.14	−15 32.5	1.954	2.951	3.9	19.9	168 E	29	80
5 16	14 20.39	−15 15.6	1.988	2.968	5.9	20.0	163 E	30	79
5 21	14 16.06	−15 0.0	2.029	2.985	7.7	20.2	157 E	30	79
5 31	14 8.94	−14 34.1	2.129	3.018	11.0	20.4	145 E	30	79
6 10	14 4.12	−14 17.5	2.251	3.050	13.7	20.7	135 E	31	78
6 20	14 1.68	−14 11.4	2.391	3.081	15.8	20.9	124 E	31*	78
6 30	14 1.52	−14 15.9	2.544	3.110	17.3	21.1	115 E	29*	78
7 10	14 3.45	−14 30.4	2.706	3.139	18.2	21.3	106 E	27*	79
7 20	14 7.22	−14 53.6	2.873	3.166	18.6	21.4	97 E	24*	79
3671 Dionysus									
12 23	14 15.00	− 1 26.5	2.070	1.780	28.3	20.5	59 W	41*	34*
1 2	14 40.05	− 3 21.6	1.918	1.707	30.8	20.3	63 W	40*	39*
1 12	15 6.85	− 5 15.9	1.769	1.633	33.3	20.1	66 W	39*	44*
1 22	15 35.79	− 7 8.8	1.627	1.558	35.9	19.9	68 W	37*	49*
2 1	16 7.26	− 8 59.1	1.492	1.484	38.7	19.7	70 W	35*	54*
2 11	16 41.72	−10 44.7	1.369	1.410	41.6	19.5	71 W	33*	57*
2 16	17 0.21	−11 34.9	1.312	1.373	43.1	19.3	72 W	32*	59*
2 21	17 19.62	−12 22.6	1.258	1.337	44.7	19.2	72 W	31*	60*
2 26	17 39.98	−13 7.0	1.209	1.302	46.3	19.1	72 W	30*	61*
3 2	18 1.31	−13 47.4	1.164	1.267	47.9	19.0	72 W	29*	61*
3 7	18 23.60	−14 22.8	1.123	1.234	49.5	19.0	71 W	28*	62*
3 12	18 46.83	−14 52.2	1.087	1.202	51.1	18.9	70 W	26*	62*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3671 Dionysus *(continuation)*									
3 17	19 10.93	−15 14.3	1.057	1.171	52.7	18.8	70 W	25*	62*
3 22	19 35.78	−15 28.1	1.032	1.142	54.3	18.7	69 W	23*	61*
3 27	20 1.22	−15 32.5	1.012	1.115	55.7	18.7	67 W	21*	60*
4 1	20 27.04	−15 27.0	0.998	1.091	56.9	18.6	66 W	20*	59*
4 6	20 53.04	−15 11.1	0.990	1.069	58.0	18.6	65 W	18*	59*
4 11	21 18.97	−14 44.8	0.987	1.050	58.8	18.6	64 W	17*	57*
4 16	21 44.63	−14 8.7	0.989	1.034	59.4	18.6	63 W	15*	56*
4 21	22 9.78	−13 23.6	0.995	1.022	59.7	18.6	61 W	14*	55*
4 26	22 34.26	−12 30.6	1.006	1.013	59.8	18.6	60 W	12*	54*
5 1	22 57.92	−11 31.3	1.021	1.009	59.5	18.6	60 W	11*	54*
5 6	23 20.67	−10 27.1	1.038	1.008	59.1	18.6	59 W	10*	53*
5 11	23 42.47	− 9 19.4	1.058	1.011	58.4	18.6	58 W	10*	52*
5 16	0 3.30	− 8 9.7	1.080	1.018	57.5	18.7	58 W	9*	52*
5 21	0 23.15	− 6 59.2	1.102	1.029	56.6	18.7	58 W	9*	52*
5 26	0 42.03	− 5 49.1	1.125	1.043	55.5	18.8	58 W	9*	52*
5 31	0 59.98	− 4 40.5	1.149	1.061	54.5	18.8	58 W	10*	52*
6 5	1 17.03	− 3 34.2	1.172	1.081	53.4	18.9	59 W	11*	52*
6 10	1 33.23	− 2 30.6	1.193	1.105	52.3	18.9	59 W	12*	53*
6 20	2 3.22	− 0 34.0	1.233	1.159	50.2	19.0	61 W	15*	53*
6 30	2 30.17	+ 1 6.4	1.264	1.220	48.3	19.2	64 W	19*	55*
7 10	2 54.27	+ 2 29.4	1.287	1.287	46.5	19.3	67 W	23*	56*
7 20	3 15.62	+ 3 35.1	1.299	1.358	44.9	19.4	71 W	29*	57*
7 30	3 34.19	+ 4 23.9	1.300	1.431	43.3	19.4	75 W	34*	58*
8 9	3 49.89	+ 4 56.9	1.291	1.505	41.6	19.5	81 W	40*	58*
8 19	4 2.52	+ 5 15.6	1.273	1.580	39.8	19.5	87 W	45*	59*
8 29	4 11.78	+ 5 21.4	1.246	1.654	37.5	19.5	94 W	49*	59
9 8	4 17.33	+ 5 16.5	1.215	1.728	34.8	19.4	102 W	50*	59
9 18	4 18.78	+ 5 3.2	1.181	1.801	31.5	19.4	111 W	50	59
9 28	4 15.79	+ 4 44.5	1.151	1.873	27.4	19.3	121 W	50	59
10 8	4 8.32	+ 4 24.3	1.128	1.943	22.5	19.2	132 W	49	60
10 13	4 3.00	+ 4 15.0	1.122	1.978	19.9	19.1	138 W	49	60
10 18	3 56.75	+ 4 7.0	1.121	2.012	17.1	19.1	144 W	49	60
10 23	3 49.74	+ 4 1.0	1.124	2.045	14.2	19.0	150 W	49	60
10 28	3 42.15	+ 3 57.7	1.133	2.079	11.5	19.0	155 W	49	60
11 7	3 26.22	+ 4 0.6	1.172	2.144	7.0	18.9	165 W	49	60
11 17	3 10.83	+ 4 18.1	1.238	2.207	6.8	19.1	165 E	49	60
11 27	2 57.68	+ 4 50.6	1.333	2.269	10.3	19.5	156 E	50	59
12 7	2 47.76	+ 5 36.4	1.453	2.329	14.1	19.8	145 E	51	58
12 17	2 41.41	+ 6 32.7	1.595	2.387	17.2	20.2	134 E	52	57
12 27	2 38.54	+ 7 37.0	1.754	2.443	19.5	20.5	124 E	53	56
1 6	2 38.78	+ 8 46.7	1.926	2.498	21.0	20.8	114 E	54	55
1 16	2 41.66	+ 9 59.8	2.108	2.550	21.8	21.1	105 E	55	54*
164216 2004 OT_{11}									
12 23	14 15.06	−28 49.3	1.665	1.293	36.1	20.3	51 W	15*	43*
12 28	14 36.68	−30 46.2	1.618	1.255	37.4	20.2	51 W	13*	44*
1 2	14 59.89	−32 34.0	1.576	1.217	38.6	20.2	51 W	11*	44*
1 7	15 24.75	−34 9.3	1.539	1.180	39.7	20.1	50 W	9*	44*
1 12	15 51.20	−35 28.4	1.507	1.144	40.7	20.0	49 W	7*	43*
1 17	16 19.10	−36 27.3	1.480	1.110	41.6	19.9	49 W	6*	43*
1 22	16 48.16	−37 2.7	1.459	1.078	42.4	19.8	48 W	4*	42*
1 27	17 17.98	−37 11.7	1.444	1.048	43.0	19.8	47 W	3*	40*
2 1	17 48.08	−36 52.6	1.434	1.021	43.4	19.7	45 W	3*	39*
2 6	18 17.93	−36 5.2	1.429	0.996	43.6	19.6	44 W	2*	38*
2 11	18 47.07	−34 50.5	1.430	0.976	43.5	19.6	43 W	2*	37*
2 16	19 15.11	−33 11.0	1.435	0.959	43.3	19.6	42 W	1*	35*
2 21	19 41.81	−31 9.8	1.445	0.946	42.8	19.5	41 W	2*	34*
2 26	20 7.03	−28 50.6	1.458	0.938	42.2	19.5	40 W	2*	33*
3 2	20 30.71	−26 17.3	1.475	0.935	41.4	19.5	39 W	2*	32*
3 7	20 52.92	−23 33.4	1.495	0.937	40.6	19.5	38 W	3*	32*
3 12	21 13.74	−20 42.3	1.517	0.943	39.6	19.5	37 W	4*	31*
3 17	21 33.30	−17 46.9	1.541	0.953	38.7	19.6	37 W	5*	31*
3 22	21 51.72	−14 49.7	1.566	0.969	37.8	19.6	37 W	6*	31*
3 27	22 9.12	−11 52.8	1.592	0.988	36.9	19.7	36 W	7*	30*
4 1	22 25.61	− 8 57.8	1.618	1.011	36.1	19.7	37 W	8*	30*
4 6	22 41.29	− 6 6.0	1.645	1.037	35.4	19.8	37 W	9*	31*
4 11	22 56.26	− 3 18.3	1.671	1.065	34.8	19.9	37 W	11*	31*
4 21	23 24.36	+ 2 2.1	1.722	1.130	33.8	20.1	39 W	13*	32*
5 1	23 50.39	+ 7 0.4	1.769	1.202	33.2	20.2	41 W	16*	32*
5 11	0 14.69	+11 35.5	1.809	1.278	32.8	20.4	43 W	19*	33*
5 21	0 37.50	+15 48.3	1.842	1.357	32.6	20.6	46 W	23*	34*
5 31	0 58.94	+19 39.9	1.867	1.437	32.5	20.7	50 W	27*	34*
6 10	1 19.07	+23 12.1	1.882	1.517	32.5	20.9	54 W	32*	34*
6 20	1 37.89	+26 26.8	1.888	1.597	32.6	21.0	58 W	38*	34*
6 30	1 55.27	+29 25.9	1.884	1.676	32.5	21.1	62 W	44*	33*
7 10	2 11.06	+32 11.2	1.869	1.753	32.4	21.1	68 W	51*	31*
7 20	2 25.02	+34 44.5	1.846	1.830	32.1	21.2	73 W	59*	29*
7 30	2 36.79	+37 7.0	1.813	1.904	31.6	21.2	79 W	67*	27
8 9	2 45.95	+39 19.5	1.774	1.976	30.8	21.2	86 W	75*	25

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
164216 2004 OT_{11} *(continuation)*									
8 19	2 51.98	+41 22.1	1.730	2.047	29.6	21.2	93 W	84*	23
8 29	2 54.26	+43 12.9	1.684	2.115	28.0	21.2	100 W	88	21
9 8	2 52.24	+44 48.5	1.639	2.181	25.9	21.1	109 W	90	19
9 18	2 45.52	+46 2.7	1.598	2.246	23.4	21.1	117 W	89	18
9 28	2 34.17	+46 46.5	1.568	2.308	20.4	21.0	126 W	88	17
10 8	2 19.07	+46 51.1	1.552	2.368	17.3	20.9	135 W	88	17
10 18	2 1.94	+46 10.5	1.557	2.427	14.4	20.9	143 W	89	18
10 28	1 45.04	+44 45.8	1.584	2.483	12.3	20.9	148 E	90	19
11 7	1 30.47	+42 46.9	1.638	2.537	11.7	21.0	149 E	88	21
11 17	1 19.52	+40 28.9	1.718	2.590	12.7	21.2	145 E	85	24
11 27	1 12.68	+38 8.0	1.823	2.640	14.5	21.4	138 E	83	26
218863 2006 WO_{127}									
12 23	14 15.39	−13 7.5	1.354	1.120	45.7	18.9	55 W	30*	39*
1 2	14 47.45	−14 6.9	1.381	1.182	44.3	19.1	57 W	29*	42*
1 12	15 16.91	−14 41.4	1.400	1.249	43.1	19.2	60 W	29*	46*
1 22	15 43.69	−14 53.1	1.410	1.321	42.1	19.3	64 W	29*	51*
2 1	16 7.66	−14 44.0	1.410	1.396	41.1	19.4	69 W	30*	56*
2 11	16 28.70	−14 16.2	1.400	1.472	40.1	19.5	74 W	30*	62*
2 21	16 46.67	−13 32.2	1.381	1.548	38.9	19.5	80 W	31*	67*
3 2	17 1.33	−12 33.9	1.355	1.625	37.5	19.5	86 W	32*	72*
3 12	17 12.46	−11 23.8	1.322	1.700	35.7	19.5	93 W	34*	75*
3 22	17 19.79	−10 4.1	1.285	1.775	33.4	19.5	101 W	35	74
4 1	17 23.02	− 8 37.6	1.248	1.848	30.5	19.4	110 W	36	73
4 11	17 21.98	− 7 8.1	1.214	1.920	26.9	19.3	120 W	38	71
4 16	17 19.86	− 6 23.6	1.201	1.956	24.9	19.3	125 W	39	70
4 21	17 16.69	− 5 40.1	1.189	1.991	22.7	19.3	130 W	39	70
4 26	17 12.55	− 4 58.4	1.182	2.025	20.4	19.2	135 W	40	69
5 1	17 7.51	− 4 19.6	1.178	2.059	18.1	19.2	141 W	41	68
5 6	17 1.74	− 3 44.3	1.180	2.093	15.7	19.1	146 W	41	68
5 11	16 55.37	− 3 13.4	1.187	2.126	13.4	19.1	151 W	42	67
5 16	16 48.60	− 2 47.6	1.199	2.159	11.3	19.1	155 W	42	67
5 21	16 41.62	− 2 27.5	1.218	2.191	9.7	19.1	159 W	43	66
5 31	16 27.87	− 2 5.7	1.274	2.254	8.8	19.2	160 E	43	66
6 10	16 15.62	− 2 8.2	1.356	2.315	10.7	19.5	155 E	43	66
6 20	16 5.87	− 2 32.0	1.461	2.375	13.7	19.8	146 E	42	67
6 30	15 59.14	− 3 12.9	1.587	2.432	16.6	20.1	137 E	42	67
7 10	15 55.51	− 4 5.9	1.731	2.488	18.8	20.4	128 E	41	68
7 20	15 54.75	− 5 6.6	1.888	2.541	20.5	20.7	119 E	40*	69
7 30	15 56.58	− 6 11.7	2.055	2.593	21.5	21.0	111 E	38*	70
8 9	16 0.62	− 7 18.4	2.230	2.643	22.0	21.2	103 E	36*	71
8 19	16 6.54	− 8 24.6	2.409	2.692	22.0	21.4	95 E	34*	72
6042 Cheshirecat									
12 23	14 16.30	+ 0 42.3	4.825	4.415	11.1	20.2	60 W	43*	32*
1 2	14 23.00	+ 0 27.7	4.681	4.411	11.9	20.2	68 W	45*	40*
1 12	14 28.86	+ 0 21.3	4.528	4.405	12.5	20.1	77 W	45*	48*
1 22	14 33.72	+ 0 23.2	4.368	4.400	12.9	20.1	85 W	45	56*
2 1	14 37.42	+ 0 33.6	4.207	4.393	12.9	20.0	94 W	46	61*
2 11	14 39.78	+ 0 52.5	4.047	4.386	12.6	19.9	104 W	46	63*
2 21	14 40.68	+ 1 19.4	3.893	4.378	12.0	19.8	113 W	46	63
3 2	14 40.00	+ 1 53.3	3.750	4.369	11.0	19.7	123 W	47	62
3 12	14 37.71	+ 2 32.8	3.622	4.360	9.6	19.5	133 W	48	61
3 22	14 33.85	+ 3 15.7	3.515	4.350	8.0	19.4	143 W	48	61
4 1	14 28.58	+ 3 59.4	3.431	4.339	6.2	19.2	152 W	49	60
4 11	14 22.19	+ 4 40.4	3.375	4.328	4.6	19.1	160 W	50	59
4 21	14 15.10	+ 5 15.6	3.348	4.316	4.1	19.1	162 W	50	59
5 1	14 7.77	+ 5 42.1	3.351	4.303	5.0	19.1	158 E	51	58
5 11	14 0.73	+ 5 57.6	3.382	4.289	6.7	19.2	150 E	51	58
5 21	13 54.42	+ 6 1.1	3.441	4.275	8.6	19.3	141 E	51	58
5 31	13 49.22	+ 5 52.2	3.522	4.260	10.3	19.4	131 E	51	58
6 10	13 45.38	+ 5 31.8	3.622	4.244	11.7	19.5	122 E	51	58
6 20	13 43.02	+ 5 1.0	3.736	4.228	12.8	19.6	112 E	49*	59
6 30	13 42.19	+ 4 21.2	3.860	4.211	13.6	19.7	103 E	46*	60
7 10	13 42.84	+ 3 33.9	3.990	4.193	14.0	19.8	94 E	42*	60
7 20	13 44.89	+ 2 40.6	4.121	4.175	14.1	19.9	86 E	37*	61
7 30	13 48.23	+ 1 42.5	4.251	4.155	13.8	19.9	78 E	33*	61*
8 9	13 52.75	+ 0 40.9	4.375	4.135	13.3	20.0	70 E	29*	57*
8 19	13 58.31	− 0 23.2	4.491	4.115	12.5	20.0	62 E	26*	52*
8 29	14 4.83	− 1 29.1	4.597	4.093	11.6	20.0	54 E	23*	46*
9 8	14 12.17	− 2 35.7	4.690	4.071	10.4	20.0	47 E	20*	39*
9 18	14 20.26	− 3 42.5	4.769	4.048	9.1	19.9	40 E	17*	32*
9 28	14 29.01	− 4 48.7	4.832	4.025	7.7	19.9	33 E	15*	24*
10 8	14 38.32	− 5 53.7	4.877	4.000	6.2	19.8	26 E	12*	17*
10 18	14 48.13	− 6 57.0	4.904	3.975	4.7	19.8	19 E	9*	10*
10 28	14 58.35	− 7 58.0	4.911	3.949	3.2	19.7	13 E	6*	2*
11 7	15 8.92	− 8 56.1	4.899	3.923	2.2	19.6	9 E	3*	—
11 17	15 19.76	− 9 51.0	4.867	3.895	2.4	19.6	9 W	2*	—
11 27	15 30.78	−10 42.0	4.816	3.867	3.6	19.6	14 W	8*	—
12 7	15 41.91	−11 29.0	4.744	3.839	5.2	19.6	21 W	14*	4*
12 17	15 53.04	−12 11.5	4.654	3.809	6.9	19.7	28 W	18*	11*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6042 Cheshirecat *(continuation)*									
12 27	16 4.09	−12 49.4	4.546	3.779	8.5	19.7	35 W	22*	19*
1 6	16 14.93	−13 22.4	4.421	3.748	10.1	19.6	42 W	25*	27*
1 16	16 25.45	−13 50.4	4.281	3.716	11.6	19.6	49 W	27*	36*
58149 1987 SX_{11}									
12 23	14 16.41	− 2 27.5	3.823	3.414	14.2	21.4	58 W	40*	34*
1 2	14 25.93	− 2 22.8	3.709	3.434	15.2	21.4	66 W	42*	41*
1 12	14 34.48	− 2 6.9	3.586	3.454	15.9	21.3	74 W	43*	49*
1 22	14 41.89	− 1 39.0	3.457	3.473	16.3	21.3	83 W	43	56*
2 1	14 47.95	− 0 58.4	3.326	3.491	16.4	21.2	91 W	44	61*
2 11	14 52.48	− 0 4.8	3.195	3.509	16.1	21.1	100 W	45	64*
2 21	14 55.29	+ 1 1.4	3.069	3.525	15.3	21.0	110 W	46	63
3 2	14 56.20	+ 2 19.5	2.952	3.541	14.2	20.9	119 W	47	62
3 12	14 55.13	+ 3 47.3	2.850	3.555	12.6	20.8	129 W	49	60
3 22	14 52.09	+ 5 21.5	2.766	3.569	10.8	20.6	138 W	50	59
4 1	14 47.21	+ 6 57.9	2.705	3.582	8.8	20.5	147 W	52	57
4 11	14 40.83	+ 8 30.5	2.670	3.595	7.1	20.4	154 W	54	55
4 16	14 37.22	+ 9 13.7	2.663	3.600	6.6	20.4	156 W	54	55
4 21	14 33.42	+ 9 53.9	2.663	3.606	6.4	20.4	156 W	55	54
4 26	14 29.52	+10 30.3	2.670	3.611	6.6	20.4	156 W	56	53
5 1	14 25.60	+11 2.6	2.685	3.617	7.1	20.5	154 E	56	53
5 11	14 18.02	+11 53.0	2.734	3.626	8.6	20.6	147 E	57	52
5 21	14 11.26	+12 23.6	2.809	3.635	10.5	20.7	139 E	57	52
5 31	14 5.79	+12 34.5	2.906	3.643	12.3	20.9	130 E	58	51
6 10	14 1.91	+12 27.6	3.019	3.650	13.8	21.0	121 E	57	52
6 20	13 59.76	+12 5.3	3.147	3.657	14.9	21.1	112 E	57*	52
6 30	13 59.35	+11 30.4	3.283	3.662	15.6	21.3	104 E	54*	52
7 10	14 0.62	+10 45.7	3.424	3.667	16.0	21.4	96 E	50*	53
7 20	14 3.43	+ 9 53.7	3.568	3.671	16.1	21.5	88 E	46*	54
189054 2000 SW_{278}									
12 23	14 17.09	− 6 2.5	3.122	2.712	17.7	20.8	57 W	37*	35*
1 2	14 30.12	− 7 21.6	2.966	2.674	19.2	20.7	63 W	37*	43*
1 12	14 42.73	− 8 36.4	2.803	2.636	20.5	20.6	70 W	36*	51*
1 22	14 54.77	− 9 46.8	2.635	2.598	21.7	20.4	77 W	35	59*
2 1	15 6.03	−10 52.9	2.463	2.558	22.5	20.3	84 W	34	67*
2 11	15 16.28	−11 55.2	2.290	2.518	23.1	20.1	92 W	33	73*
2 21	15 25.24	−12 54.3	2.119	2.478	23.2	19.9	99 W	32	77*
3 2	15 32.54	−13 51.1	1.951	2.437	22.8	19.7	107 W	31	78
3 12	15 37.80	−14 46.7	1.789	2.396	21.9	19.4	116 W	30	79
3 22	15 40.56	−15 42.6	1.637	2.354	20.3	19.1	125 W	29	80
4 1	15 40.34	−16 39.6	1.498	2.312	17.9	18.8	135 W	28	81
4 11	15 36.75	−17 38.9	1.374	2.270	14.6	18.5	145 W	27	82
4 21	15 29.61	−18 40.2	1.270	2.228	10.4	18.1	156 W	26	83
5 1	15 19.13	−19 42.0	1.189	2.185	5.4	17.7	168 W	25	84
5 6	15 12.88	−20 12.6	1.158	2.164	2.8	17.5	174 W	25	84
5 11	15 6.17	−20 42.5	1.134	2.143	1.5	17.3	177 E	24	85
5 16	14 59.18	−21 11.5	1.116	2.122	3.8	17.4	172 E	24	85
5 21	14 52.16	−21 39.5	1.105	2.101	6.7	17.5	166 E	23	86
5 26	14 45.33	−22 6.5	1.100	2.080	9.7	17.6	160 E	23	86
5 31	14 38.94	−22 32.8	1.101	2.060	12.6	17.7	154 E	22	87
6 5	14 33.18	−22 58.7	1.107	2.039	15.3	17.8	148 E	22	87
6 10	14 28.22	−23 24.6	1.118	2.019	18.0	17.9	142 E	22	87
6 15	14 24.18	−23 51.0	1.134	1.999	20.4	18.0	137 E	21	88
6 20	14 21.15	−24 18.3	1.154	1.979	22.7	18.1	131 E	21	88
6 30	14 18.32	−25 17.4	1.202	1.939	26.5	18.2	122 E	19*	89
7 10	14 19.81	−26 24.0	1.258	1.901	29.5	18.4	113 E	16*	90
7 20	14 25.41	−27 38.5	1.319	1.865	31.7	18.5	105 E	14*	88
7 30	14 34.87	−29 0.3	1.383	1.829	33.3	18.6	98 E	11*	87
8 9	14 47.86	−30 27.4	1.447	1.796	34.3	18.7	92 E	9*	83*
8 19	15 4.16	−31 57.1	1.509	1.765	34.9	18.8	87 E	7*	77*
8 29	15 23.59	−33 26.0	1.570	1.737	35.1	18.8	82 E	5*	72*
9 8	15 45.98	−34 49.9	1.629	1.711	35.0	18.9	77 E	4*	68*
9 18	16 11.16	−36 4.3	1.685	1.689	34.7	18.9	73 E	4*	64*
9 28	16 38.95	−37 4.4	1.740	1.670	34.1	18.9	69 E	3*	60*
10 8	17 9.02	−37 45.2	1.793	1.654	33.4	19.0	66 E	3*	57*
10 13	17 24.79	−37 56.9	1.820	1.647	33.0	19.0	64 E	3*	56*
10 18	17 40.98	−38 2.1	1.847	1.642	32.5	19.0	62 E	4*	55*
10 23	17 57.51	−38 0.3	1.873	1.637	32.0	19.0	61 E	4*	54*
10 28	18 14.29	−37 51.3	1.900	1.634	31.5	19.0	59 E	4*	53*
11 2	18 31.26	−37 34.8	1.927	1.631	31.0	19.0	58 E	5*	51*
11 7	18 48.32	−37 10.7	1.954	1.630	30.4	19.0	56 E	5*	50*
11 12	19 5.40	−36 38.8	1.982	1.629	29.8	19.0	55 E	6*	49*
11 17	19 22.43	−35 59.3	2.011	1.630	29.2	19.1	54 E	7*	47*
11 22	19 39.33	−35 12.4	2.040	1.631	28.5	19.1	52 E	8*	46*
11 27	19 56.04	−34 18.3	2.069	1.634	27.9	19.1	51 E	8*	45*
12 2	20 12.50	−33 17.5	2.100	1.637	27.2	19.1	49 E	9*	43*
12 7	20 28.67	−32 10.5	2.131	1.642	26.4	19.1	48 E	10*	41*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		189054 2000 SW_{278} *(continuation)*							
	h m	° ′			°	m	°	°	°
12 12	20 44.52	−30 57.6	2.163	1.647	25.7	19.1	46 E	11*	40*
12 17	21 0.03	−29 39.4	2.196	1.654	24.9	19.2	45 E	12*	38*
12 22	21 15.18	−28 16.5	2.229	1.661	24.1	19.2	44 E	13*	36*
12 27	21 29.96	−26 49.6	2.263	1.670	23.3	19.2	42 E	14*	34*
1 1	21 44.38	−25 19.1	2.298	1.679	22.4	19.2	41 E	15*	32*
1 6	21 58.43	−23 45.6	2.334	1.689	21.6	19.2	39 E	15*	30*
1 11	22 12.13	−22 9.7	2.370	1.700	20.7	19.2	38 E	16*	28*
1 16	22 25.50	−20 31.9	2.407	1.712	19.8	19.3	36 E	16*	27*
		463282 2012 HR_{15}							
12 23	14 17.55	+18 15.4	0.780	1.012	65.1	18.9	69 W	59*	22*
12 28	14 26.11	+19 58.1	0.815	1.072	61.0	19.0	72 W	62*	23*
1 2	14 33.77	+21 35.2	0.846	1.132	57.5	19.1	76 W	65*	25*
1 7	14 40.44	+23 9.9	0.874	1.192	54.2	19.2	80 W	67*	26*
1 12	14 46.08	+24 44.4	0.898	1.252	51.3	19.3	83 W	69*	28*
1 17	14 50.62	+26 20.3	0.920	1.311	48.5	19.3	87 W	71*	29*
1 22	14 54.00	+27 58.4	0.940	1.370	45.9	19.4	91 W	73	30*
2 1	14 56.88	+31 22.2	0.974	1.485	41.0	19.5	99 W	76	31*
2 11	14 54.09	+34 50.9	1.006	1.597	36.3	19.6	106 W	80	29*
2 21	14 45.11	+38 12.7	1.042	1.705	31.9	19.7	114 W	83	26
2 26	14 38.22	+39 45.3	1.063	1.758	29.9	19.8	118 W	85	24
3 2	14 29.83	+41 8.7	1.086	1.810	27.9	19.8	121 W	86	23
3 7	14 20.09	+42 20.0	1.113	1.861	26.2	19.9	124 W	87	22
3 12	14 9.25	+43 16.8	1.144	1.911	24.7	19.9	127 W	88	21
3 17	13 57.63	+43 57.6	1.180	1.961	23.4	20.0	129 W	89	20
3 22	13 45.60	+44 21.0	1.220	2.009	22.4	20.1	130 W	89	20
3 27	13 33.58	+44 26.8	1.264	2.057	21.7	20.2	130 W	89	20
4 1	13 21.96	+44 15.7	1.314	2.104	21.2	20.3	130 W	89	20
4 6	13 11.08	+43 49.2	1.369	2.150	21.0	20.5	130 W	89	20
4 11	13 1.20	+43 9.1	1.428	2.196	21.0	20.6	128 E	88	21
4 16	12 52.45	+42 17.7	1.492	2.241	21.1	20.8	127 E	87	22
4 21	12 44.93	+41 17.2	1.561	2.284	21.3	20.9	124 E	86	23
4 26	12 38.64	+40 9.5	1.633	2.328	21.5	21.0	122 E	85	24
5 1	12 33.56	+38 56.5	1.710	2.370	21.8	21.2	119 E	84	25
5 6	12 29.61	+37 39.9	1.790	2.412	22.0	21.3	116 E	83	26
5 11	12 26.70	+36 21.1	1.873	2.453	22.2	21.5	113 E	81	28
		137044 1998 UC_{50}							
12 23	14 17.75	−15 31.7	1.750	1.404	34.2	20.0	53 W	27*	39*
1 2	14 45.22	−18 8.8	1.732	1.442	34.6	20.0	56 W	26*	44*
1 12	15 11.72	−20 25.8	1.710	1.485	35.0	20.1	60 W	24*	49*
1 22	15 37.08	−22 22.9	1.683	1.531	35.3	20.1	64 W	22*	55*
2 1	16 1.03	−24 1.1	1.651	1.579	35.4	20.1	68 W	21*	61*
2 11	16 23.27	−25 22.3	1.613	1.630	35.4	20.2	73 W	19*	66*
2 21	16 43.52	−26 28.9	1.569	1.682	35.2	20.2	79 W	18*	72*
3 2	17 1.37	−27 23.5	1.520	1.735	34.7	20.1	85 W	18*	79*
3 12	17 16.46	−28 8.9	1.467	1.789	33.7	20.1	91 W	17*	85*
3 22	17 28.37	−28 47.9	1.411	1.843	32.3	20.0	98 W	16	87
4 1	17 36.60	−29 22.6	1.354	1.898	30.3	20.0	106 W	16	87
4 11	17 40.73	−29 54.5	1.300	1.952	27.7	19.9	115 W	15	86
4 21	17 40.41	−30 23.2	1.252	2.005	24.2	19.7	125 W	15	86
5 1	17 35.47	−30 46.5	1.214	2.058	20.0	19.6	136 W	14	85
5 6	17 31.36	−30 54.8	1.200	2.085	17.6	19.5	141 W	14	85
5 11	17 26.29	−31 0.2	1.191	2.111	15.1	19.4	147 W	14	85
5 16	17 20.39	−31 2.1	1.187	2.137	12.5	19.4	153 W	14	85
5 21	17 13.84	−30 59.9	1.188	2.162	9.8	19.3	159 W	14	85
5 26	17 6.87	−30 53.5	1.195	2.188	7.2	19.2	164 W	14	85
5 31	16 59.72	−30 42.9	1.209	2.213	4.9	19.2	169 W	14	85
6 5	16 52.65	−30 28.5	1.229	2.238	3.6	19.1	172 E	15	86
6 10	16 45.88	−30 10.8	1.255	2.263	4.2	19.2	171 E	15	86
6 15	16 39.61	−29 50.6	1.288	2.287	6.1	19.4	166 E	15	86
6 20	16 33.99	−29 28.8	1.327	2.311	8.3	19.6	161 E	16	87
6 25	16 29.15	−29 6.3	1.372	2.335	10.4	19.8	155 E	16	87
6 30	16 25.18	−28 44.0	1.423	2.359	12.4	20.0	150 E	16	87
7 10	16 19.91	−28 2.6	1.539	2.405	15.9	20.3	140 E	17	88
7 20	16 18.10	−27 28.3	1.673	2.450	18.6	20.6	130 E	18	89
7 30	16 19.48	−27 2.5	1.821	2.494	20.5	20.9	120 E	18*	89
8 9	16 23.61	−26 45.0	1.979	2.537	21.8	21.2	112 E	18*	89
8 19	16 30.04	−26 34.4	2.144	2.579	22.4	21.4	104 E	17*	89
		5510 1988 RF_7							
12 23	14 17.94	− 8 37.7	3.017	2.592	18.2	18.9	56 W	34*	36*
1 2	14 32.06	− 9 36.2	2.884	2.575	19.7	18.8	62 W	34*	44*
1 12	14 45.64	−10 27.0	2.743	2.558	21.0	18.8	69 W	34*	51*
1 22	14 58.53	−11 9.3	2.596	2.540	22.1	18.7	76 W	34	59*
2 1	15 10.52	−11 42.7	2.445	2.521	22.8	18.5	83 W	33	66*
2 11	15 21.35	−12 6.7	2.293	2.501	23.2	18.4	90 W	33	73*
2 21	15 30.75	−12 21.1	2.140	2.480	23.2	18.2	98 W	33	76*
3 2	15 38.36	−12 25.5	1.990	2.459	22.8	18.0	106 W	33	76

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		5510 1988 RF_7 *(continuation)*							
	h m	° ′			°	m	°	°	°
3 12	15 43.83	−12 20.0	1.846	2.436	21.7	17.8	115 W	33	76
3 22	15 46.77	−12 4.9	1.710	2.413	20.0	17.6	124 W	33	76
4 1	15 46.82	−11 40.7	1.586	2.389	17.6	17.3	134 W	33	76
4 11	15 43.78	−11 8.7	1.479	2.365	14.4	17.0	144 W	34	75
4 21	15 37.66	−10 31.0	1.390	2.340	10.5	16.7	155 W	34	75
5 1	15 28.85	− 9 51.0	1.324	2.314	6.2	16.4	166 W	35	74
5 6	15 23.70	− 9 31.6	1.301	2.301	4.5	16.3	170 W	35	74
5 11	15 18.25	− 9 13.5	1.284	2.287	3.9	16.2	171 W	36	73
5 16	15 12.65	− 8 57.3	1.273	2.274	4.9	16.2	169 E	36	73
5 21	15 7.09	− 8 43.8	1.269	2.260	7.0	16.3	164 E	36	73
5 26	15 1.74	− 8 33.6	1.271	2.247	9.3	16.4	159 E	36	73
5 31	14 56.78	− 8 27.1	1.280	2.233	11.7	16.5	153 E	37	72
6 10	14 48.55	− 8 26.8	1.312	2.205	16.3	16.7	142 E	37	72
6 20	14 43.19	− 8 44.2	1.362	2.176	20.3	16.9	132 E	36	73
6 30	14 41.11	− 9 18.5	1.426	2.147	23.6	17.0	122 E	36*	73
7 10	14 42.33	−10 8.0	1.500	2.118	26.2	17.2	113 E	34*	74
7 20	14 46.67	−11 9.8	1.579	2.089	28.0	17.3	105 E	31*	75
7 30	14 53.90	−12 21.3	1.662	2.060	29.2	17.5	98 E	28*	76
8 9	15 3.72	−13 39.7	1.746	2.031	29.9	17.5	91 E	26*	78*
8 19	15 15.88	−15 2.3	1.828	2.001	30.2	17.6	84 E	23*	76*
8 29	15 30.18	−16 26.7	1.909	1.973	30.1	17.7	78 E	21*	71*
9 8	15 46.44	−17 50.3	1.985	1.944	29.7	17.7	73 E	20*	66*
9 18	16 4.51	−19 10.6	2.058	1.916	29.0	17.8	68 E	18*	61*
9 28	16 24.28	−20 25.4	2.126	1.888	28.1	17.8	63 E	17*	56*
10 8	16 45.61	−21 32.2	2.190	1.861	27.0	17.8	58 E	16*	52*
10 18	17 8.41	−22 28.5	2.248	1.835	25.8	17.8	53 E	15*	47*
10 28	17 32.54	−23 12.2	2.301	1.811	24.4	17.7	49 E	15*	42*
11 7	17 57.84	−23 41.1	2.349	1.787	23.0	17.7	45 E	14*	38*
11 17	18 24.15	−23 53.3	2.392	1.765	21.4	17.7	41 E	14*	33*
11 27	18 51.28	−23 47.4	2.431	1.744	19.8	17.6	37 E	13*	29*
12 7	19 18.99	−23 22.4	2.466	1.725	18.1	17.6	33 E	13*	24*
12 17	19 47.09	−22 37.8	2.496	1.709	16.4	17.5	29 E	12*	20*
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*
		17435 di Giovanni							
12 23	14 18.62	−14 2.2	2.255	1.848	25.3	18.6	54 W	29*	38*
1 2	14 40.02	−14 22.1	2.194	1.881	26.5	18.6	59 W	29*	44*
1 12	15 0.37	−14 24.6	2.127	1.916	27.5	18.6	64 W	30*	50*
1 22	15 19.49	−14 9.1	2.055	1.951	28.3	18.6	70 W	31*	56*
2 1	15 37.11	−13 34.6	1.978	1.987	28.8	18.5	76 W	31*	62*
2 11	15 52.98	−12 40.8	1.897	2.024	28.9	18.5	83 W	32	68*
2 21	16 6.80	−11 27.4	1.814	2.060	28.7	18.4	90 W	34	72*
3 2	16 18.25	− 9 54.6	1.732	2.098	28.0	18.3	97 W	35	74*
3 12	16 26.99	− 8 3.2	1.652	2.135	26.7	18.2	105 W	37	72
3 22	16 32.73	− 5 54.8	1.577	2.172	24.9	18.1	113 W	39	70
4 1	16 35.19	− 3 32.4	1.512	2.209	22.6	18.0	122 W	41	68
4 6	16 35.15	− 2 17.7	1.484	2.228	21.2	17.9	126 W	43	66
4 11	16 34.28	− 1 1.6	1.460	2.246	19.7	17.9	131 W	44	65
4 16	16 32.57	+ 0 14.7	1.440	2.265	18.2	17.8	135 W	45	64
4 21	16 30.09	+ 1 30.0	1.424	2.283	16.6	17.7	139 W	47	62
4 26	16 26.89	+ 2 43.1	1.414	2.301	15.1	17.7	143 W	48	61
5 1	16 23.07	+ 3 52.4	1.409	2.319	13.7	17.7	147 W	49	60
5 6	16 18.75	+ 4 56.7	1.409	2.337	12.5	17.6	150 W	50	59
5 11	16 14.06	+ 5 54.6	1.416	2.355	11.7	17.6	152 W	51	58
5 16	16 9.14	+ 6 45.3	1.429	2.373	11.3	17.7	153 W	52	57
5 21	16 4.15	+ 7 27.8	1.448	2.390	11.4	17.7	152 W	52	57
5 31	15 54.55	+ 8 26.4	1.503	2.425	12.7	17.9	148 E	53	56
6 10	15 46.33	+ 8 50.2	1.581	2.459	14.8	18.1	142 E	54	55
6 20	15 40.21	+ 8 43.0	1.677	2.492	17.1	18.3	134 E	54	55
6 25	15 38.07	+ 8 29.4	1.732	2.509	18.1	18.4	130 E	53	56
6 30	15 36.57	+ 8 10.2	1.790	2.525	19.0	18.5	126 E	53	56
7 5	15 35.72	+ 7 46.3	1.852	2.541	19.8	18.7	122 E	53	56
7 10	15 35.50	+ 7 18.4	1.916	2.557	20.5	18.8	118 E	52*	57
7 15	15 35.88	+ 6 47.2	1.983	2.573	21.1	18.9	114 E	52*	57
7 20	15 36.85	+ 6 13.4	2.051	2.589	21.6	19.0	110 E	51*	58
7 30	15 40.43	+ 4 59.9	2.194	2.619	22.2	19.2	103 E	48*	59
8 9	15 45.97	+ 3 42.1	2.341	2.649	22.4	19.3	96 E	46*	60
8 19	15 53.21	+ 2 22.9	2.491	2.678	22.2	19.5	89 E	43*	62*
8 29	16 1.94	+ 1 4.6	2.640	2.706	21.7	19.6	83 E	41*	61*
9 8	16 11.93	− 0 10.8	2.788	2.733	21.0	19.7	76 E	38*	59*
9 18	16 23.01	− 1 22.0	2.933	2.759	20.0	19.8	70 E	36*	55*
9 28	16 35.04	− 2 27.6	3.073	2.785	18.9	19.9	64 E	35*	50*
10 8	16 47.86	− 3 26.7	3.206	2.809	17.6	20.0	58 E	33*	44*
10 18	17 1.35	− 4 18.6	3.332	2.833	16.1	20.0	52 E	31*	38*
10 28	17 15.42	− 5 2.4	3.448	2.856	14.6	20.1	46 E	29*	32*
11 7	17 29.93	− 5 37.8	3.554	2.877	13.0	20.1	41 E	27*	25*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
17435 di Giovanni *(continuation)*									
11 17	17 44.80	− 6 4.2	3.649	2.898	11.4	20.1	35 E	25*	18*
11 27	17 59.93	− 6 21.5	3.730	2.918	9.7	20.1	30 E	22*	11*
12 7	18 15.22	− 6 29.5	3.799	2.937	8.2	20.1	25 E	19*	4*
12 17	18 30.59	− 6 28.1	3.853	2.955	6.8	20.1	21 E	15*	—
12 27	18 45.93	− 6 17.4	3.893	2.972	5.8	20.1	18 E	10*	—
1 6	19 1.16	− 5 57.7	3.917	2.989	5.4	20.1	17 W	7*	—
1 16	19 16.20	− 5 29.2	3.926	3.004	5.7	20.1	18 W	11*	—
164220 2004 QW_{16}									
12 23	14 18.93	−10 54.8	2.943	2.504	18.7	21.5	55 W	32*	37*
1 2	14 33.20	−11 3.5	2.826	2.508	20.1	21.5	61 W	33*	44*
1 12	14 46.72	−10 59.3	2.700	2.511	21.4	21.4	68 W	34*	51*
1 22	14 59.30	−10 40.8	2.567	2.512	22.3	21.3	76 W	34	59*
2 1	15 10.71	−10 6.3	2.429	2.512	22.9	21.2	83 W	35	65*
2 11	15 20.69	− 9 14.0	2.289	2.511	23.1	21.1	91 W	36	70*
2 21	15 28.94	− 8 2.4	2.149	2.509	22.9	20.9	99 W	37	72*
3 2	15 35.13	− 6 30.0	2.013	2.505	22.1	20.8	108 W	39	70
3 12	15 38.91	− 4 36.2	1.886	2.500	20.7	20.6	117 W	40	69
3 22	15 39.99	− 2 21.6	1.770	2.494	18.8	20.4	126 W	43	66
4 1	15 38.12	+ 0 11.3	1.670	2.486	16.3	20.2	136 W	45	64
4 6	15 36.06	+ 1 32.8	1.628	2.482	14.9	20.1	140 W	47	62
4 11	15 33.28	+ 2 56.4	1.591	2.477	13.5	20.0	145 W	48	61
4 16	15 29.82	+ 4 20.8	1.561	2.472	12.3	19.9	148 W	49	60
4 21	15 25.74	+ 5 44.4	1.536	2.467	11.2	19.8	152 W	51	58
4 26	15 21.13	+ 7 5.6	1.519	2.461	10.5	19.7	154 W	52	57
5 1	15 16.12	+ 8 22.8	1.508	2.455	10.3	19.7	154 W	53	56
5 6	15 10.86	+ 9 34.3	1.504	2.449	10.6	19.7	154 W	55	54
5 11	15 5.47	+10 38.8	1.507	2.442	11.4	19.7	151 E	56	53
5 16	15 0.12	+11 35.2	1.516	2.436	12.6	19.8	148 E	57	52
5 21	14 54.95	+12 22.6	1.532	2.428	14.0	19.8	145 E	57	52
5 31	14 45.72	+13 29.4	1.578	2.413	17.0	20.0	136 E	58	51
6 10	14 38.65	+13 59.8	1.643	2.396	19.8	20.2	127 E	59	50
6 20	14 34.24	+13 58.0	1.722	2.378	22.1	20.3	118 E	59	50
6 25	14 33.10	+13 46.8	1.765	2.369	23.1	20.4	114 E	59*	50
6 30	14 32.67	+13 29.7	1.809	2.359	23.9	20.5	110 E	58*	51
7 5	14 32.94	+13 7.5	1.855	2.349	24.6	20.5	106 E	57*	51
7 10	14 33.87	+12 41.0	1.902	2.339	25.1	20.6	102 E	55*	51
7 15	14 35.44	+12 10.6	1.949	2.328	25.6	20.7	99 E	53*	52
7 20	14 37.62	+11 37.1	1.997	2.317	25.9	20.7	95 E	51*	52
7 25	14 40.39	+11 0.8	2.044	2.306	26.1	20.8	91 E	50*	53
7 30	14 43.71	+10 22.3	2.090	2.294	26.3	20.8	88 E	48*	54
8 4	14 47.55	+ 9 42.0	2.136	2.282	26.3	20.8	85 E	46*	54*
8 9	14 51.87	+ 9 0.3	2.181	2.270	26.2	20.9	82 E	45*	55*
8 14	14 56.66	+ 8 17.4	2.225	2.257	26.1	20.9	79 E	43*	55*
8 19	15 1.88	+ 7 33.7	2.268	2.245	25.9	20.9	76 E	42*	54*
8 24	15 7.53	+ 6 49.5	2.309	2.232	25.7	20.9	73 E	40*	53*
8 29	15 13.57	+ 6 5.0	2.349	2.218	25.3	20.9	70 E	39*	52*
9 3	15 19.99	+ 5 20.6	2.386	2.205	25.0	21.0	67 E	38*	50*
9 8	15 26.77	+ 4 36.3	2.422	2.191	24.6	21.0	65 E	37*	49*
9 13	15 33.89	+ 3 52.4	2.457	2.177	24.1	21.0	62 E	36*	47*
9 18	15 41.35	+ 3 9.2	2.489	2.162	23.6	21.0	60 E	35*	45*
9 23	15 49.14	+ 2 26.7	2.519	2.148	23.1	21.0	57 E	34*	42*
9 28	15 57.24	+ 1 45.3	2.547	2.133	22.6	21.0	55 E	33*	40*
10 3	16 5.65	+ 1 5.1	2.573	2.117	22.0	20.9	52 E	32*	38*
10 8	16 14.34	+ 0 26.2	2.597	2.102	21.4	20.9	50 E	32*	35*
10 13	16 23.33	− 0 11.1	2.618	2.086	20.8	20.9	48 E	31*	33*
10 18	16 32.59	− 0 46.6	2.638	2.071	20.2	20.9	46 E	30*	30*
10 23	16 42.13	− 1 20.2	2.656	2.054	19.5	20.9	44 E	29*	28*
10 28	16 51.94	− 1 51.7	2.671	2.038	18.9	20.8	42 E	29*	25*
11 2	17 2.00	− 2 21.0	2.684	2.022	18.2	20.8	40 E	28*	22*
11 7	17 12.31	− 2 47.8	2.696	2.005	17.6	20.8	38 E	27*	20*
11 12	17 22.87	− 3 12.0	2.705	1.988	16.9	20.8	36 E	26*	17*
11 17	17 33.67	− 3 33.6	2.712	1.971	16.3	20.7	34 E	25*	14*
11 22	17 44.69	− 3 52.2	2.718	1.954	15.6	20.7	32 E	24*	11*
11 27	17 55.94	− 4 7.8	2.722	1.937	15.0	20.6	30 E	23*	9*
12 2	18 7.39	− 4 20.3	2.723	1.919	14.3	20.6	29 E	22*	6*
12 7	18 19.04	− 4 29.6	2.724	1.901	13.7	20.6	27 E	21*	4*
12 12	18 30.89	− 4 35.6	2.722	1.884	13.1	20.5	26 E	20*	1*
12 17	18 42.93	− 4 38.2	2.719	1.866	12.5	20.5	24 E	18*	—
12 22	18 55.13	− 4 37.3	2.715	1.848	11.9	20.4	23 E	17*	—
12 27	19 7.50	− 4 33.0	2.709	1.830	11.4	20.4	22 E	15*	—
1 1	19 20.02	− 4 25.2	2.702	1.812	10.9	20.3	20 E	13*	—
1 6	19 32.68	− 4 13.9	2.693	1.795	10.4	20.3	19 E	12*	—
1 11	19 45.48	− 3 59.2	2.684	1.777	10.0	20.2	18 E	10*	—
1 16	19 58.40	− 3 41.1	2.673	1.759	9.6	20.2	17 E	8*	—
143404 2003 BD_{44}									
12 23	14 20.18	−14 4.2	1.581	1.265	38.5	19.9	53 W	29*	38*
12 28	14 40.90	−15 35.5	1.523	1.219	40.1	19.8	53 W	27*	39*
1 2	15 3.04	−17 3.5	1.471	1.172	41.8	19.7	53 W	26*	40*
1 7	15 26.68	−18 26.0	1.424	1.126	43.4	19.6	52 W	24*	40*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
143404 2003 BD_{44} *(continuation)*									
1 12	15 51.86	−19 40.4	1.384	1.080	45.0	19.5	51 W	22*	40*
1 17	16 18.55	−20 43.7	1.350	1.035	46.4	19.4	50 W	21*	40*
1 22	16 46.64	−21 32.9	1.324	0.992	47.7	19.3	48 W	19*	39*
1 27	17 15.93	−22 5.0	1.307	0.950	48.6	19.2	46 W	18*	38*
2 1	17 46.10	−22 17.6	1.297	0.912	49.3	19.1	45 W	16*	37*
2 6	18 16.80	−22 9.1	1.296	0.876	49.5	19.0	42 W	15*	35*
2 11	18 47.64	−21 39.0	1.303	0.844	49.2	18.9	40 W	13*	33*
2 16	19 18.23	−20 48.0	1.318	0.818	48.4	18.9	38 W	12*	32*
2 21	19 48.21	−19 37.8	1.340	0.797	47.1	18.8	36 W	10*	30*
2 26	20 17.31	−18 11.1	1.369	0.782	45.3	18.8	34 W	9*	28*
3 2	20 45.34	−16 30.8	1.403	0.775	43.1	18.8	32 W	8*	26*
3 7	21 12.15	−14 40.3	1.442	0.775	40.7	18.7	31 W	7*	24*
3 12	21 37.70	−12 42.6	1.484	0.783	38.1	18.8	29 W	6*	23*
3 17	22 1.98	−10 40.8	1.529	0.798	35.6	18.8	28 W	6*	22*
3 22	22 25.02	− 8 37.3	1.575	0.819	33.2	18.8	27 W	5*	21*
3 27	22 46.85	− 6 34.3	1.622	0.846	31.0	18.9	26 W	5*	20*
4 1	23 7.54	− 4 33.5	1.670	0.877	29.1	19.0	25 W	4*	19*
4 6	23 27.17	− 2 36.3	1.717	0.913	27.5	19.1	25 W	4*	19*
4 11	23 45.82	− 0 43.6	1.763	0.952	26.2	19.2	25 W	4*	19*
4 21	0 20.50	+ 2 46.2	1.853	1.037	24.4	19.5	25 W	4*	19*
5 1	0 52.14	+ 5 53.5	1.935	1.128	23.5	19.7	27 W	4*	20*
5 11	1 21.22	+ 8 38.0	2.009	1.221	23.3	19.9	28 W	6*	22*
5 21	1 48.12	+11 0.6	2.072	1.314	23.4	20.2	31 W	7*	24*
5 31	2 13.12	+13 2.9	2.123	1.407	23.9	20.4	34 W	10*	27*
6 10	2 36.39	+14 46.4	2.162	1.497	24.6	20.6	38 W	13*	29*
6 20	2 58.07	+16 12.9	2.187	1.586	25.4	20.8	42 W	17*	32*
6 30	3 18.20	+17 23.8	2.198	1.672	26.2	20.9	47 W	22*	34*
7 10	3 36.78	+18 20.7	2.194	1.756	27.0	21.0	52 W	27*	37*
7 20	3 53.78	+19 4.8	2.177	1.836	27.7	21.1	57 W	34*	39*
7 30	4 9.06	+19 37.5	2.147	1.914	28.2	21.2	63 W	40*	40*
8 9	4 22.50	+20 0.0	2.104	1.989	28.5	21.3	69 W	47*	42*
8 19	4 33.90	+20 13.4	2.050	2.061	28.5	21.3	76 W	54*	43*
8 29	4 42.98	+20 18.6	1.987	2.131	28.1	21.3	84 W	60*	43*
9 8	4 49.46	+20 16.7	1.917	2.197	27.3	21.2	92 W	64*	44
9 18	4 52.98	+20 8.1	1.844	2.261	25.9	21.2	101 W	65	44
9 28	4 53.19	+19 53.3	1.771	2.323	23.8	21.1	111 W	65	44
10 8	4 49.83	+19 32.2	1.704	2.382	21.0	21.0	121 W	65	44
10 18	4 42.82	+19 4.5	1.648	2.438	17.4	20.8	133 W	64	45
10 28	4 32.39	+18 30.1	1.610	2.492	13.1	20.7	145 W	64	45
11 7	4 19.33	+17 49.7	1.596	2.544	8.2	20.5	158 W	63	46
11 17	4 4.81	+17 5.2	1.611	2.593	3.2	20.3	171 W	62	47
11 22	3 57.48	+16 42.7	1.630	2.617	1.4	20.2	176 W	62	47
11 27	3 50.35	+16 20.8	1.658	2.640	2.6	20.4	173 E	61	48
12 2	3 43.61	+16 0.2	1.693	2.662	4.8	20.6	167 E	61	48
12 7	3 37.39	+15 41.3	1.736	2.684	7.1	20.8	160 E	61	48
12 12	3 31.80	+15 24.6	1.786	2.706	9.2	20.9	154 E	60	49
12 17	3 26.93	+15 10.7	1.843	2.727	11.1	21.1	148 E	60	49
12 22	3 22.84	+14 59.6	1.906	2.747	12.8	21.3	142 E	60	49
12 27	3 19.54	+14 51.7	1.975	2.767	14.3	21.4	136 E	60	49
149537 2003 GE_{42}									
12 23	14 21.75	− 3 3.4	2.415	2.053	23.7	19.2	57 W	39*	33*
1 2	14 44.08	− 3 6.1	2.278	2.012	25.5	19.1	62 W	40*	38*
1 12	15 6.90	− 2 51.5	2.143	1.972	27.2	18.9	67 W	41*	43*
1 22	15 30.18	− 2 17.0	2.011	1.933	28.8	18.8	71 W	42*	48*
2 1	15 53.78	− 1 20.4	1.883	1.895	30.2	18.7	76 W	43*	52*
2 11	16 17.55	+ 0 0.2	1.761	1.859	31.5	18.5	80 W	45*	55*
2 21	16 41.32	+ 1 45.6	1.647	1.825	32.6	18.4	84 W	47*	57*
3 2	17 4.84	+ 3 55.8	1.541	1.793	33.5	18.2	87 W	49*	57*
3 12	17 27.84	+ 6 29.2	1.445	1.764	34.3	18.1	91 W	51*	57*
3 22	17 50.04	+ 9 22.7	1.359	1.737	34.9	17.9	94 W	54*	55*
3 27	18 0.73	+10 55.7	1.319	1.725	35.2	17.8	95 W	56*	53
4 1	18 11.08	+12 31.9	1.282	1.713	35.4	17.8	97 W	57*	51
4 6	18 21.06	+14 10.3	1.247	1.702	35.6	17.7	98 W	59*	50
4 11	18 30.63	+15 50.2	1.214	1.693	35.8	17.6	99 W	61*	48
4 16	18 39.74	+17 30.7	1.183	1.684	35.9	17.6	100 W	62*	46
4 21	18 48.35	+19 10.8	1.154	1.675	36.0	17.5	102 W	64*	45
4 26	18 56.39	+20 49.5	1.127	1.668	36.0	17.4	103 W	66*	43
5 1	19 3.82	+22 25.6	1.101	1.662	36.0	17.4	104 W	67*	42
5 6	19 10.60	+23 58.1	1.076	1.657	36.0	17.3	105 W	69*	40
5 11	19 16.70	+25 26.0	1.053	1.652	35.9	17.3	106 W	70	39
5 16	19 22.07	+26 48.1	1.030	1.649	35.7	17.2	108 W	72	37
5 21	19 26.64	+28 3.3	1.009	1.647	35.5	17.2	109 W	73	36
5 26	19 30.40	+29 10.2	0.988	1.645	35.2	17.1	111 W	74	35
5 31	19 33.32	+30 7.6	0.968	1.645	34.8	17.0	112 W	75	34
6 5	19 35.39	+30 54.1	0.949	1.646	34.3	17.0	114 W	76	33
6 10	19 36.64	+31 28.5	0.931	1.648	33.7	16.9	116 W	76	33
6 15	19 37.07	+31 49.3	0.914	1.651	33.1	16.9	118 W	77	32
6 20	19 36.73	+31 55.1	0.897	1.654	32.3	16.8	120 W	77	32
6 25	19 35.71	+31 44.3	0.882	1.659	31.4	16.8	122 W	77	32

149537 2003 GE_{42} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 30	19 34.14	+31 15.8	0.869	1.665	30.5	16.7	124 W	76	33
7 5	19 32.17	+30 28.7	0.857	1.672	29.4	16.7	126 W	75	34
7 10	19 29.94	+29 22.6	0.848	1.680	28.4	16.6	128 W	74	35
7 15	19 27.64	+27 57.2	0.841	1.688	27.3	16.6	130 E	73	36
7 20	19 25.43	+26 13.1	0.837	1.698	26.2	16.6	132 E	71	38
7 25	19 23.51	+24 11.5	0.837	1.708	25.2	16.5	134 E	69	40
7 30	19 22.04	+21 54.4	0.841	1.719	24.4	16.5	136 E	67	42
8 4	19 21.15	+19 24.8	0.848	1.731	23.8	16.6	136 E	64	45
8 9	19 20.91	+16 45.8	0.861	1.744	23.5	16.6	137 E	62	47
8 14	19 21.41	+14 0.8	0.879	1.757	23.4	16.6	136 E	59	50
8 19	19 22.67	+11 13.4	0.901	1.771	23.6	16.7	135 E	56	53
8 24	19 24.72	+ 8 27.0	0.929	1.786	24.0	16.8	134 E	53	56
8 29	19 27.55	+ 5 44.8	0.962	1.802	24.6	16.9	132 E	51	58
9 3	19 31.13	+ 3 9.3	1.000	1.817	25.3	17.1	130 E	48	61
9 8	19 35.40	+ 0 42.6	1.043	1.834	26.1	17.2	127 E	46	63
9 13	19 40.32	− 1 34.1	1.090	1.851	26.8	17.3	124 E	43	66
9 18	19 45.84	− 3 39.8	1.142	1.869	27.5	17.5	121 E	41	68
9 28	19 58.49	− 7 17.0	1.257	1.905	28.6	17.8	114 E	38	71
10 8	20 12.88	−10 8.9	1.386	1.943	29.3	18.0	108 E	35	74
10 18	20 28.61	−12 19.2	1.525	1.982	29.5	18.3	102 E	33	76
10 23	20 36.87	−13 10.1	1.598	2.002	29.4	18.4	98 E	32	77*
10 28	20 45.33	−13 52.3	1.673	2.022	29.3	18.5	95 E	31	77*
11 2	20 53.97	−14 26.5	1.749	2.043	29.0	18.6	92 E	31	76*
11 7	21 2.74	−14 53.2	1.827	2.063	28.7	18.7	89 E	30	74*
11 12	21 11.62	−15 13.1	1.905	2.084	28.3	18.8	86 E	30	72*
11 17	21 20.58	−15 26.8	1.984	2.105	27.8	18.9	83 E	30	69*
11 22	21 29.62	−15 34.6	2.064	2.126	27.2	19.0	80 E	29	66*
11 27	21 38.69	−15 37.1	2.144	2.147	26.6	19.1	77 E	29	63*
12 7	21 56.90	−15 28.2	2.303	2.190	25.2	19.3	71 E	30	57*
12 17	22 15.11	−15 3.3	2.461	2.233	23.6	19.4	65 E	30*	51*
12 27	22 33.23	−14 25.3	2.615	2.276	21.8	19.5	59 E	30*	44*
1 6	22 51.22	−13 37.0	2.763	2.319	20.0	19.6	54 E	29*	39*
1 16	23 9.03	−12 40.6	2.905	2.361	18.0	19.7	48 E	27*	34*

77971 Donnolo

12 23	14 23.09	+ 6 16.3	3.260	2.916	17.2	21.0	61 W	48*	28*
1 2	14 35.11	+ 5 53.9	3.127	2.904	18.3	20.9	68 W	50*	35*
1 12	14 46.34	+ 5 43.1	2.988	2.890	19.2	20.9	75 W	50*	42*
1 22	14 56.61	+ 5 44.6	2.845	2.876	19.8	20.8	82 W	51	48*
2 1	15 5.67	+ 5 58.9	2.698	2.861	20.1	20.6	89 W	51	53*
2 11	15 13.28	+ 6 26.2	2.552	2.845	20.1	20.5	97 W	51	56*
2 21	15 19.13	+ 7 6.1	2.408	2.827	19.8	20.4	105 W	52	57
3 2	15 22.92	+ 7 57.8	2.270	2.809	19.0	20.2	113 W	53	56
3 12	15 24.35	+ 8 59.2	2.142	2.790	17.7	20.0	121 W	54	55
3 22	15 23.16	+10 6.8	2.026	2.771	16.1	19.8	130 W	55	54
3 27	15 21.53	+10 41.5	1.974	2.760	15.1	19.7	134 W	56	53
4 1	15 19.21	+11 15.7	1.926	2.750	14.1	19.6	138 W	56	53
4 6	15 16.22	+11 48.5	1.883	2.739	13.1	19.5	142 W	57	52
4 11	15 12.60	+12 18.8	1.846	2.728	12.2	19.4	145 W	57	52
4 16	15 8.39	+12 45.8	1.815	2.717	11.3	19.4	148 W	58	51
4 21	15 3.69	+13 8.5	1.789	2.706	10.7	19.3	150 W	58	51
4 26	14 58.58	+13 25.8	1.770	2.694	10.5	19.3	151 W	58	51
5 1	14 53.20	+13 36.8	1.757	2.682	10.5	19.2	151 W	59	50
5 6	14 47.68	+13 41.1	1.750	2.670	11.0	19.2	150 E	59	50
5 11	14 42.16	+13 38.1	1.750	2.658	11.7	19.3	148 E	59	50
5 21	14 31.64	+13 10.0	1.766	2.633	13.9	19.3	141 E	58	51
5 31	14 22.64	+12 13.6	1.805	2.607	16.4	19.4	133 E	57	52
6 10	14 15.87	+10 52.7	1.862	2.581	18.8	19.6	125 E	56	53
6 20	14 11.68	+ 9 12.6	1.933	2.553	20.9	19.7	116 E	54*	55
6 30	14 10.19	+ 7 18.3	2.015	2.525	22.5	19.8	108 E	51*	57
7 10	14 11.29	+ 5 14.2	2.105	2.496	23.6	19.9	100 E	46*	59
7 20	14 14.79	+ 3 4.0	2.198	2.466	24.3	20.0	93 E	41*	61
7 30	14 20.48	+ 0 50.0	2.292	2.436	24.6	20.1	86 E	37*	63*
8 9	14 28.13	− 1 25.5	2.386	2.405	24.4	20.1	79 E	33*	63*
8 19	14 37.54	− 3 41.1	2.476	2.373	24.0	20.2	72 E	29*	61*
8 29	14 48.57	− 5 55.7	2.561	2.341	23.2	20.2	66 E	26*	57*
9 8	15 1.07	− 8 8.1	2.640	2.309	22.2	20.2	60 E	23*	52*
9 18	15 14.94	−10 17.3	2.712	2.276	21.0	20.2	54 E	20*	47*
9 28	15 30.14	−12 22.5	2.776	2.242	19.6	20.2	49 E	18*	41*
10 8	15 46.57	−14 22.6	2.831	2.208	18.0	20.1	43 E	16*	36*
10 18	16 4.23	−16 16.7	2.876	2.174	16.3	20.1	38 E	13*	31*
10 28	16 23.08	−18 3.6	2.912	2.140	14.4	20.0	32 E	11*	25*
11 7	16 43.09	−19 42.2	2.937	2.106	12.5	19.9	27 E	9*	20*
11 17	17 4.24	−21 11.4	2.953	2.072	10.4	19.8	22 E	7*	15*
11 27	17 26.50	−22 29.9	2.958	2.038	8.3	19.7	17 E	4*	10*
12 7	17 49.81	−23 36.5	2.954	2.005	6.2	19.5	13 E	2*	6*
12 17	18 14.14	−24 30.0	2.941	1.971	4.0	19.4	8 E	—	2*
12 27	18 39.39	−25 9.5	2.919	1.939	2.1	19.2	4 E	—	—
1 6	19 5.47	−25 33.9	2.888	1.907	1.6	19.1	3 W	—	—
1 16	19 32.29	−25 42.5	2.851	1.876	3.3	19.2	6 W	—	—

59836 1999 RN_{44}

12 23	14 23.12	−13 4.1	2.979	2.509	18.2	21.1	53 W	29*	37*
1 2	14 39.16	−13 51.2	2.838	2.480	19.9	21.0	59 W	30*	44*
1 12	14 54.98	−14 29.3	2.690	2.449	21.4	20.9	65 W	30*	51*
1 22	15 10.46	−14 57.0	2.537	2.418	22.7	20.8	72 W	30*	58*
2 1	15 25.42	−15 13.3	2.380	2.387	23.9	20.7	78 W	30	66*
2 11	15 39.66	−15 17.0	2.222	2.355	24.7	20.5	85 W	30	72*
2 21	15 52.97	−15 6.8	2.063	2.322	25.2	20.4	92 W	30	77*
3 2	16 5.02	−14 41.7	1.907	2.289	25.3	20.2	99 W	30	79
3 12	16 15.52	−14 0.6	1.755	2.255	24.9	19.9	107 W	31	78
3 22	16 24.08	−13 2.6	1.610	2.221	24.0	19.7	115 W	32	77
4 1	16 30.29	−11 47.1	1.475	2.187	22.5	19.4	123 W	33	76
4 11	16 33.77	−10 14.6	1.351	2.153	20.3	19.1	132 W	35	74
4 21	16 34.19	− 8 26.6	1.242	2.119	17.4	18.8	141 W	37	72
4 26	16 33.20	− 7 27.8	1.194	2.102	15.8	18.7	145 W	38	71
5 1	16 31.40	− 6 26.9	1.151	2.085	14.1	18.5	150 W	39	70
5 6	16 28.86	− 5 24.8	1.113	2.068	12.4	18.3	154 W	40	69
5 11	16 25.63	− 4 22.7	1.081	2.051	10.8	18.2	158 W	41	68
5 16	16 21.81	− 3 22.0	1.054	2.034	9.7	18.1	160 W	42	67
5 21	16 17.53	− 2 24.0	1.032	2.017	9.3	18.0	161 W	43	66
5 26	16 12.94	− 1 30.4	1.017	2.000	9.8	18.0	160 W	43	66
5 31	16 8.24	− 0 42.7	1.007	1.984	11.0	18.0	158 E	44	65
6 5	16 3.61	− 0 2.0	1.002	1.967	12.8	18.0	155 E	45	64
6 10	15 59.25	+ 0 30.8	1.003	1.951	14.9	18.1	150 E	46	63
6 20	15 51.96	+ 1 10.5	1.018	1.919	19.4	18.2	141 E	46	63
6 30	15 47.49	+ 1 15.2	1.048	1.888	23.5	18.4	132 E	46	63
7 10	15 46.47	+ 0 48.6	1.090	1.858	27.1	18.5	124 E	46	63
7 15	15 47.30	+ 0 25.4	1.115	1.843	28.6	18.6	120 E	45*	64
7 20	15 49.04	− 0 3.5	1.141	1.829	30.0	18.7	116 E	45*	64
7 25	15 51.66	− 0 37.2	1.169	1.815	31.2	18.8	112 E	44*	65
7 30	15 55.15	− 1 15.0	1.197	1.801	32.3	18.8	109 E	43*	65
8 4	15 59.45	− 1 56.1	1.227	1.788	33.1	18.9	105 E	42*	66
8 9	16 4.54	− 2 39.8	1.257	1.776	33.9	19.0	102 E	41*	67
8 19	16 16.90	− 4 12.4	1.319	1.752	35.0	19.1	97 E	39*	68
8 29	16 31.97	− 5 48.2	1.382	1.730	35.7	19.2	91 E	37*	70*
9 8	16 49.45	− 7 22.6	1.446	1.711	36.0	19.2	86 E	35*	70*
9 18	17 9.08	− 8 52.0	1.511	1.694	36.0	19.3	82 E	34*	68*
9 28	17 30.65	−10 12.8	1.576	1.680	35.7	19.4	78 E	32*	66*
10 8	17 53.87	−11 21.7	1.641	1.669	35.1	19.4	74 E	31*	62*
10 18	18 18.53	−12 16.1	1.708	1.660	34.4	19.5	70 E	31*	59*
10 28	18 44.36	−12 53.6	1.775	1.655	33.4	19.5	67 E	30*	55*
11 7	19 11.07	−13 12.7	1.844	1.653	32.3	19.6	63 E	30*	51*
11 17	19 38.41	−13 12.4	1.915	1.654	31.1	19.6	60 E	30*	46*
11 27	20 6.10	−12 52.7	1.988	1.658	29.7	19.7	56 E	30*	42*
12 7	20 33.89	−12 14.2	2.062	1.665	28.2	19.7	53 E	30*	37*
12 17	21 1.57	−11 18.2	2.137	1.675	26.5	19.8	50 E	30*	33*
12 27	21 28.97	−10 6.4	2.214	1.688	24.8	19.8	46 E	29*	28*
1 6	21 55.96	− 8 41.2	2.292	1.704	23.0	19.9	43 E	29*	24*
1 16	22 22.48	− 7 5.0	2.370	1.722	21.1	19.9	39 E	27*	21*

34706 2001 OP_{83}

12 23	14 23.18	− 7 51.2	2.194	1.813	26.3	19.1	55 W	34*	35*
1 2	14 42.24	− 9 25.8	2.148	1.860	27.2	19.1	60 W	34*	41*
1 12	15 0.04	−10 47.7	2.095	1.907	27.9	19.1	65 W	34*	48*
1 22	15 16.40	−11 57.5	2.033	1.955	28.5	19.2	71 W	33*	56*
2 1	15 31.08	−12 55.4	1.965	2.002	28.7	19.1	78 W	32	63*
2 11	15 43.82	−13 42.3	1.891	2.050	28.6	19.1	85 W	31	70*
2 21	15 54.32	−14 19.2	1.814	2.096	28.1	19.0	92 W	31	76*
3 2	16 2.20	−14 47.0	1.734	2.142	27.1	19.0	100 W	30	79
3 12	16 7.11	−15 6.8	1.655	2.188	25.5	18.9	109 W	30	79
3 22	16 8.71	−15 19.7	1.581	2.233	23.1	18.7	118 W	30	79
4 1	16 6.73	−15 26.3	1.515	2.277	20.1	18.6	129 W	30	79
4 11	16 1.20	−15 27.5	1.463	2.320	16.2	18.4	140 W	30	79
4 21	15 52.43	−15 23.8	1.429	2.362	11.7	18.3	151 W	30	79
5 1	15 41.24	−15 16.4	1.419	2.403	6.8	18.1	164 W	30	79
5 6	15 35.11	−15 11.9	1.423	2.423	4.3	18.0	170 W	30	79
5 11	15 28.86	−15 7.3	1.435	2.443	2.0	17.9	175 W	30	79
5 16	15 22.66	−15 2.9	1.453	2.462	1.9	17.9	175 E	30	79
5 21	15 16.69	−14 59.0	1.478	2.482	4.0	18.1	170 E	30	79
5 26	15 11.09	−14 56.3	1.511	2.501	6.3	18.3	164 E	30	79
5 31	15 6.01	−14 54.9	1.549	2.520	8.5	18.4	158 E	30	79
6 10	14 57.75	−14 57.7	1.644	2.556	12.5	18.8	147 E	30	79
6 20	14 52.32	−15 8.7	1.761	2.592	15.7	19.1	136 E	30	79
6 30	14 49.82	−15 28.7	1.894	2.627	18.2	19.3	126 E	29*	79
7 10	14 50.06	−15 56.9	2.040	2.660	19.9	19.6	117 E	28*	80
7 20	14 52.77	−16 32.3	2.196	2.692	21.0	19.8	108 E	26*	81
7 30	14 57.64	−17 13.6	2.358	2.723	21.5	20.0	100 E	24*	81
8 9	15 4.36	−17 59.3	2.522	2.753	21.6	20.2	92 E	22*	82*
8 19	15 12.67	−18 47.8	2.687	2.782	21.2	20.3	85 E	20*	78*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
34706 2001 OP_{83} *(continuation)*									
8 29	15 22.35	−19 38.1	2.851	2.809	20.5	20.4	77 E	18*	71*
9 8	15 33.20	−20 28.8	3.010	2.836	19.6	20.5	70 E	16*	64*
9 18	15 45.06	−21 18.8	3.163	2.861	18.3	20.6	64 E	14*	58*
9 28	15 57.79	−22 7.2	3.308	2.885	16.9	20.7	57 E	13*	51*
10 8	16 11.28	−22 53.0	3.443	2.908	15.3	20.7	50 E	11*	44*
10 18	16 25.42	−23 35.5	3.568	2.929	13.6	20.8	44 E	10*	38*
10 28	16 40.12	−24 14.1	3.680	2.950	11.7	20.8	37 E	8*	31*
11 7	16 55.26	−24 48.0	3.778	2.969	9.8	20.8	31 E	6*	24*
11 17	17 10.78	−25 17.0	3.861	2.987	7.8	20.8	24 E	4*	18*
11 27	17 26.57	−25 40.6	3.929	3.004	5.7	20.7	18 E	2*	11*
12 7	17 42.53	−25 58.5	3.979	3.019	3.7	20.6	11 E	—	5*
12 17	17 58.59	−26 10.9	4.013	3.034	1.7	20.5	5 E	—	—
12 27	18 14.65	−26 17.7	4.028	3.047	1.2	20.5	4 W	—	—
1 6	18 30.59	−26 19.1	4.026	3.059	3.0	20.7	9 W	—	3*
1 16	18 46.35	−26 15.4	4.006	3.070	5.0	20.8	16 W	—	10*
152931 2000 EA_{107}									
12 23	14 24.06	+12 34.0	1.427	1.338	41.5	19.1	64 W	54*	24*
1 2	14 49.89	+10 45.0	1.343	1.319	43.3	19.0	67 W	53*	29*
1 12	15 16.33	+ 8 55.1	1.253	1.293	45.4	18.9	69 W	52*	34*
1 22	15 43.89	+ 7 1.5	1.158	1.259	47.8	18.7	72 W	51*	39*
1 27	15 58.28	+ 6 2.1	1.109	1.239	49.2	18.6	72 W	50*	41*
2 1	16 13.21	+ 5 0.1	1.059	1.218	50.7	18.5	73 W	49*	44*
2 6	16 28.83	+ 3 54.5	1.009	1.194	52.4	18.4	74 W	48*	46*
2 11	16 45.31	+ 2 44.2	0.959	1.168	54.2	18.3	74 W	47*	48*
2 16	17 2.87	+ 1 28.4	0.909	1.140	56.3	18.2	74 W	45*	50*
2 21	17 21.76	+ 0 5.7	0.861	1.111	58.6	18.1	73 W	43*	52*
2 26	17 42.29	− 1 24.9	0.814	1.079	61.2	18.0	73 W	41*	53*
3 2	18 4.81	− 3 4.4	0.769	1.045	64.1	17.9	72 W	39*	54*
3 12	18 57.51	− 6 49.4	0.692	0.972	71.1	17.7	68 W	33*	55*
3 22	20 2.83	−10 49.5	0.642	0.890	79.3	17.7	61 W	24*	53*
4 1	21 20.18	−14 0.1	0.634	0.803	87.3	17.7	53 W	14*	47*
4 6	22 1.20	−14 47.8	0.650	0.758	90.3	17.8	49 W	9*	43*
4 11	22 41.87	−14 52.1	0.681	0.712	91.9	17.8	45 W	4*	39*
4 16	23 20.80	−14 10.5	0.727	0.667	92.0	17.8	42 W	—	35*
4 21	23 57.12	−12 45.4	0.787	0.624	90.1	17.7	38 W	—	31*
4 26	0 30.51	−10 41.4	0.859	0.584	86.2	17.6	35 W	—	28*
5 1	1 1.14	− 8 3.7	0.941	0.550	80.4	17.5	33 W	—	25*
5 6	1 29.47	− 4 57.4	1.030	0.524	72.9	17.3	30 W	—	22*
5 11	1 56.04	− 1 28.8	1.123	0.509	64.0	17.2	27 W	—	20*
5 16	2 21.33	+ 2 14.5	1.216	0.507	54.6	17.0	24 W	—	17*
5 21	2 45.73	+ 6 3.4	1.305	0.517	45.5	17.0	21 W	—	15*
5 26	3 9.48	+ 9 48.7	1.389	0.540	37.2	17.0	19 W	—	13*
5 31	3 32.75	+13 23.1	1.465	0.571	30.3	17.0	17 W	—	11*
6 5	3 55.66	+16 41.2	1.534	0.609	24.9	17.1	15 W	—	9*
6 10	4 18.28	+19 40.5	1.597	0.652	21.0	17.2	13 W	—	7*
6 20	5 2.91	+24 38.3	1.705	0.742	16.5	17.5	12 W	2*	4*
6 30	5 46.77	+28 17.0	1.796	0.832	15.1	17.8	12 W	5*	1*
7 10	6 29.71	+30 43.8	1.873	0.918	15.2	18.1	14 W	7*	—
7 15	6 50.75	+31 33.1	1.907	0.958	15.5	18.3	15 W	8*	—
7 20	7 11.43	+32 7.9	1.938	0.996	15.8	18.4	15 W	9*	—
7 25	7 31.72	+32 29.3	1.966	1.033	16.2	18.5	16 W	10*	—
7 30	7 51.56	+32 38.4	1.991	1.067	16.6	18.6	18 W	11*	—
8 4	8 10.93	+32 36.5	2.013	1.100	17.1	18.7	19 W	12*	—
8 9	8 29.81	+32 24.5	2.033	1.130	17.5	18.8	20 W	13*	—
8 14	8 48.20	+32 3.4	2.050	1.159	18.0	18.9	21 W	14*	—
8 19	9 6.08	+31 34.2	2.064	1.185	18.4	19.0	22 W	15*	—
8 24	9 23.46	+30 57.8	2.076	1.210	18.9	19.1	23 W	16*	—
8 29	9 40.35	+30 14.9	2.085	1.232	19.4	19.1	24 W	17*	—
9 8	10 12.72	+28 32.7	2.095	1.271	20.5	19.2	26 W	19*	—
9 18	10 43.43	+26 32.6	2.095	1.303	21.6	19.3	28 W	21*	—
9 28	11 12.69	+24 18.8	2.084	1.326	22.8	19.4	31 W	24*	—
10 8	11 40.77	+21 54.5	2.063	1.343	24.0	19.4	33 W	26*	—
10 18	12 7.94	+19 22.0	2.031	1.352	25.4	19.5	36 W	29*	—
10 28	12 34.46	+16 43.2	1.990	1.353	26.9	19.5	38 W	32*	2*
11 7	13 0.60	+13 59.2	1.939	1.347	28.5	19.4	40 W	34*	4*
11 17	13 26.65	+11 10.4	1.879	1.334	30.2	19.4	43 W	37*	7*
11 27	13 52.90	+ 8 17.1	1.810	1.314	32.1	19.3	45 W	38*	11*
12 7	14 19.69	+ 5 18.7	1.734	1.285	34.2	19.3	47 W	39*	15*
12 17	14 47.45	+ 2 13.9	1.651	1.249	36.5	19.2	49 W	39*	20*
12 27	15 16.67	− 0 58.7	1.563	1.206	39.0	19.0	50 W	38*	25*
1 6	15 48.07	− 4 21.0	1.472	1.154	41.8	18.9	52 W	36*	29*
1 16	16 22.59	− 7 54.5	1.381	1.095	45.0	18.7	52 W	33*	34*
414903 2010 XT_{45}									
12 23	14 24.40	−16 50.1	1.984	1.570	29.3	21.1	51 W	26*	38*
12 28	14 38.85	−17 32.0	1.931	1.551	30.4	21.1	53 W	25*	40*
1 2	14 53.66	−18 9.7	1.878	1.532	31.5	21.0	54 W	25*	42*
1 7	15 8.85	−18 42.8	1.825	1.512	32.6	21.0	56 W	25*	44*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
414903 2010 XT_{45} *(continuation)*									
1 12	15 24.43	−19 10.7	1.773	1.492	33.7	20.9	57 W	24*	46*
1 17	15 40.41	−19 32.8	1.721	1.473	34.8	20.9	59 W	24*	48*
1 22	15 56.79	−19 48.6	1.670	1.453	35.9	20.8	60 W	24*	50*
1 27	16 13.56	−19 57.5	1.621	1.434	37.0	20.7	61 W	24*	51*
2 1	16 30.71	−19 58.8	1.572	1.414	38.1	20.7	62 W	24*	53*
2 6	16 48.20	−19 52.0	1.525	1.395	39.1	20.6	63 W	24*	54*
2 11	17 6.03	−19 36.5	1.480	1.376	40.2	20.5	64 W	24*	56*
2 16	17 24.16	−19 12.0	1.437	1.357	41.3	20.5	65 W	24*	57*
2 21	17 42.55	−18 38.1	1.396	1.339	42.3	20.4	66 W	24*	57*
2 26	18 1.16	−17 54.4	1.356	1.321	43.4	20.3	66 W	24*	58*
3 2	18 19.93	−17 0.9	1.320	1.304	44.4	20.3	67 W	24*	59*
3 12	18 57.75	−14 44.9	1.253	1.271	46.4	20.2	68 W	25*	59*
3 22	19 35.65	−11 52.7	1.198	1.241	48.2	20.1	68 W	26*	59*
4 1	20 13.23	− 8 29.7	1.153	1.215	49.8	20.0	68 W	28*	59*
4 6	20 31.82	− 6 39.1	1.135	1.203	50.6	20.0	68 W	28*	58*
4 11	20 50.24	− 4 44.1	1.119	1.193	51.2	19.9	68 W	29*	58*
4 16	21 8.48	− 2 45.9	1.106	1.184	51.9	19.9	68 W	29*	57*
4 21	21 26.52	− 0 45.6	1.095	1.176	52.4	19.9	68 W	30*	56*
4 26	21 44.35	+ 1 15.3	1.085	1.170	52.8	19.9	68 W	31*	55*
5 1	22 1.97	+ 3 15.7	1.078	1.165	53.2	19.8	68 W	31*	54*
5 6	22 19.37	+ 5 14.4	1.072	1.162	53.5	19.8	68 W	32*	53*
5 11	22 36.57	+ 7 10.4	1.068	1.160	53.7	19.8	68 W	33*	52*
5 16	22 53.57	+ 9 2.9	1.065	1.159	53.9	19.8	68 W	34*	51*
5 21	23 10.36	+10 50.9	1.062	1.161	54.0	19.8	68 W	35*	50*
5 26	23 26.95	+12 33.9	1.060	1.163	54.0	19.8	68 W	36*	49*
5 31	23 43.32	+14 11.2	1.058	1.167	53.9	19.8	69 W	37*	48*
6 10	0 15.45	+17 6.8	1.054	1.180	53.7	19.8	70 W	39*	46*
6 20	0 46.69	+19 35.4	1.048	1.198	53.3	19.8	71 W	42*	44*
6 30	1 16.87	+21 35.1	1.039	1.221	52.7	19.9	73 W	46*	42*
7 10	1 45.81	+23 5.1	1.025	1.248	52.0	19.9	75 W	50*	41*
7 20	2 13.23	+24 5.5	1.006	1.279	51.1	19.8	78 W	54*	40*
7 30	2 38.75	+24 36.1	0.982	1.313	50.0	19.8	82 W	59*	39
8 9	3 2.00	+24 37.2	0.952	1.348	48.6	19.8	87 W	63*	39
8 14	3 12.62	+24 26.9	0.935	1.367	47.8	19.7	89 W	65*	40
8 19	3 22.48	+24 9.3	0.916	1.386	46.9	19.7	92 W	66*	40
8 24	3 31.49	+23 44.3	0.897	1.405	45.8	19.6	95 W	67*	40
8 29	3 39.60	+23 11.9	0.877	1.424	44.6	19.6	98 W	68*	41
9 3	3 46.72	+22 32.2	0.856	1.444	43.3	19.5	101 W	68*	41
9 8	3 52.79	+21 45.1	0.834	1.463	41.7	19.5	105 W	67	42
9 18	4 1.38	+19 48.2	0.791	1.503	38.0	19.3	113 W	65	44
9 28	4 4.72	+17 20.8	0.752	1.542	33.3	19.1	122 W	62	47
10 8	4 2.49	+14 25.2	0.719	1.580	27.5	18.9	133 W	59	50
10 13	3 59.28	+12 48.6	0.707	1.599	24.2	18.8	139 W	58	51
10 18	3 54.77	+11 8.0	0.698	1.618	20.8	18.7	145 W	56	53
10 23	3 49.13	+ 9 25.5	0.694	1.637	17.2	18.6	151 W	54	55
10 28	3 42.60	+ 7 43.8	0.695	1.655	13.8	18.5	157 W	53	56
11 2	3 35.47	+ 6 5.8	0.702	1.673	10.8	18.4	162 W	51	58
11 7	3 28.03	+ 4 34.4	0.714	1.691	8.8	18.4	165 W	50	59
11 12	3 20.61	+ 3 12.2	0.732	1.708	8.5	18.5	165 W	48	61
11 17	3 13.53	+ 2 1.3	0.756	1.725	9.9	18.6	163 E	47	62
11 22	3 7.07	+ 1 3.0	0.786	1.742	12.2	18.8	158 E	46	63
11 27	3 1.44	+ 0 17.8	0.821	1.758	14.8	19.0	153 E	45	64
12 7	2 53.15	− 0 35.0	0.906	1.790	19.7	19.4	142 E	44	65
12 17	2 49.07	− 0 44.2	1.006	1.820	23.6	19.8	132 E	44	65
12 27	2 49.04	− 0 19.5	1.120	1.848	26.6	20.2	123 E	45	64
1 1	2 50.39	+ 0 2.3	1.180	1.861	27.7	20.3	118 E	45	64
1 6	2 52.55	+ 0 28.9	1.242	1.875	28.6	20.5	114 E	45	64
1 11	2 55.45	+ 0 59.6	1.306	1.887	29.3	20.6	110 E	46	63
1 16	2 59.03	+ 1 33.4	1.371	1.899	29.8	20.8	106 E	47	62*
37568 1989 TP									
12 23	14 24.65	−22 14.7	2.387	1.908	23.2	20.0	50 W	20*	40*
1 2	14 47.05	−23 6.2	2.287	1.898	25.0	19.9	55 W	21*	45*
1 12	15 9.41	−23 42.7	2.182	1.887	26.7	19.9	60 W	21*	51*
1 22	15 31.62	−24 2.5	2.071	1.877	28.3	19.8	65 W	21*	57*
2 1	15 53.48	−24 3.6	1.956	1.865	29.8	19.7	70 W	21*	62*
2 11	16 14.79	−23 44.3	1.837	1.854	31.0	19.6	75 W	21*	68*
2 16	16 25.17	−23 26.5	1.777	1.848	31.5	19.5	78 W	21*	71*
2 21	16 35.32	−23 2.8	1.717	1.842	32.0	19.5	81 W	22*	74*
2 26	16 45.20	−22 33.2	1.656	1.836	32.4	19.4	84 W	22*	77*
3 2	16 54.77	−21 57.2	1.596	1.829	32.7	19.3	87 W	23*	79*
3 7	17 4.00	−21 14.7	1.536	1.823	33.0	19.2	90 W	24*	82*
3 12	17 12.83	−20 25.5	1.476	1.817	33.1	19.1	93 W	25*	83*
3 17	17 21.24	−19 29.3	1.417	1.810	33.2	19.0	96 W	26*	83*
3 22	17 29.16	−18 25.9	1.358	1.804	33.1	18.9	99 W	27	82

37568 1989 *TP* *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 1	17 43.33	−15 56.2	1.245	1.791	32.5	18.7	105 W	29	80
4 11	17 54.91	−12 55.0	1.139	1.778	31.5	18.5	112 W	32	77
4 21	18 3.44	− 9 21.6	1.041	1.765	29.8	18.2	119 W	36	73
5 1	18 8.41	− 5 17.6	0.956	1.752	27.6	17.9	126 W	40	69
5 6	18 9.44	− 3 5.7	0.918	1.746	26.3	17.8	130 W	42	67
5 11	18 9.45	− 0 49.0	0.884	1.740	25.0	17.7	133 W	44	65
5 16	18 8.43	+ 1 31.0	0.855	1.733	23.7	17.6	136 W	47	62
5 21	18 6.37	+ 3 52.0	0.829	1.727	22.5	17.5	139 W	49	60
5 26	18 3.32	+ 6 11.1	0.809	1.721	21.6	17.4	141 W	51	58
5 31	17 59.37	+ 8 25.3	0.793	1.715	20.9	17.3	143 W	53	56
6 5	17 54.67	+10 31.4	0.782	1.709	20.6	17.2	144 W	56	53
6 10	17 49.39	+12 26.5	0.776	1.703	20.8	17.2	143 W	57	52
6 15	17 43.73	+14 7.9	0.775	1.697	21.4	17.2	142 W	59	50
6 20	17 37.92	+15 33.6	0.777	1.692	22.3	17.3	141 E	61	48
6 25	17 32.22	+16 42.0	0.784	1.686	23.5	17.3	139 E	62	47
6 30	17 26.90	+17 33.0	0.795	1.681	24.9	17.4	136 E	63	46
7 5	17 22.16	+18 6.8	0.808	1.675	26.4	17.5	133 E	63	46
7 10	17 18.17	+18 24.5	0.825	1.670	27.8	17.5	130 E	63	46
7 15	17 15.06	+18 27.5	0.843	1.665	29.2	17.6	127 E	63	46
7 20	17 12.93	+18 17.2	0.864	1.661	30.6	17.7	124 E	63	46
7 25	17 11.84	+17 55.4	0.887	1.656	31.8	17.8	121 E	63	46
7 30	17 11.82	+17 23.9	0.911	1.652	32.9	17.9	118 E	62	47
8 4	17 12.84	+16 44.4	0.937	1.648	33.9	18.0	115 E	62	47
8 9	17 14.88	+15 58.5	0.963	1.644	34.7	18.0	112 E	61	48
8 14	17 17.88	+15 7.4	0.990	1.640	35.5	18.1	110 E	60	49
8 19	17 21.82	+14 12.3	1.018	1.637	36.1	18.2	107 E	59*	50
8 24	17 26.64	+13 14.3	1.046	1.633	36.7	18.3	105 E	58*	51
8 29	17 32.29	+12 14.4	1.075	1.631	37.1	18.3	103 E	57*	52
9 3	17 38.72	+11 13.6	1.105	1.628	37.5	18.4	101 E	56*	53
9 8	17 45.86	+10 12.6	1.134	1.625	37.8	18.4	99 E	55*	54
9 13	17 53.67	+ 9 11.9	1.164	1.623	38.0	18.5	97 E	54*	55
9 18	18 2.12	+ 8 12.2	1.195	1.621	38.2	18.6	95 E	53*	56*
9 23	18 11.15	+ 7 14.1	1.226	1.620	38.2	18.6	93 E	52*	57*
9 28	18 20.73	+ 6 18.2	1.257	1.618	38.3	18.7	91 E	51*	57*
10 8	18 41.34	+ 4 34.5	1.322	1.616	38.1	18.8	87 E	49*	57*
10 18	19 3.62	+ 3 4.2	1.388	1.615	37.8	18.9	84 E	48*	56*
10 28	19 27.31	+ 1 49.9	1.457	1.616	37.3	19.0	80 E	47*	54*
11 7	19 52.08	+ 0 53.3	1.529	1.617	36.6	19.1	77 E	46*	51*
11 17	20 17.67	+ 0 15.2	1.603	1.620	35.7	19.1	73 E	45*	47*
11 27	20 43.82	− 0 4.1	1.680	1.624	34.7	19.2	70 E	44*	43*
12 7	21 10.29	− 0 5.0	1.760	1.628	33.5	19.3	66 E	44*	39*
12 17	21 36.90	+ 0 11.1	1.841	1.634	32.2	19.4	62 E	43*	35*
12 27	22 3.51	+ 0 42.7	1.923	1.641	30.7	19.4	59 E	43*	31*
1 6	22 29.97	+ 1 27.6	2.007	1.649	29.2	19.5	55 E	41*	27*
1 16	22 56.23	+ 2 23.5	2.090	1.657	27.5	19.5	51 E	40*	24*

124192 Moletai

12 23	14 24.87	−18 30.2	2.182	1.736	26.0	20.6	51 W	24*	39*
1 2	14 51.53	−20 25.5	2.081	1.707	27.9	20.5	54 W	23*	43*
1 12	15 19.14	−22 7.5	1.982	1.679	29.7	20.4	58 W	22*	48*
1 22	15 47.67	−23 33.0	1.883	1.653	31.5	20.3	61 W	21*	53*
1 27	16 2.24	−24 8.7	1.835	1.641	32.3	20.3	63 W	20*	55*
2 1	16 16.99	−24 39.3	1.787	1.630	33.1	20.2	65 W	20*	57*
2 6	16 31.87	−25 4.3	1.740	1.619	33.9	20.2	66 W	19*	59*
2 11	16 46.87	−25 23.6	1.694	1.609	34.6	20.1	68 W	19*	61*
2 16	17 1.95	−25 36.9	1.649	1.599	35.4	20.1	70 W	18*	63*
2 21	17 17.07	−25 44.0	1.604	1.590	36.1	20.0	71 W	18*	65*
2 26	17 32.17	−25 44.8	1.560	1.582	36.7	20.0	73 W	18*	67*
3 2	17 47.20	−25 39.3	1.517	1.575	37.3	19.9	74 W	18*	68*
3 7	18 2.12	−25 27.3	1.475	1.568	37.9	19.8	76 W	18*	70*
3 12	18 16.88	−25 9.1	1.434	1.562	38.4	19.8	78 W	18*	72*
3 22	18 45.73	−24 14.5	1.355	1.553	39.3	19.7	81 W	19*	75*
4 1	19 13.30	−22 57.3	1.279	1.547	40.0	19.6	85 W	19*	78*
4 11	19 39.24	−21 20.3	1.206	1.545	40.4	19.4	88 W	21*	81*
4 21	20 3.23	−19 27.3	1.137	1.546	40.5	19.3	92 W	22*	83*
5 1	20 24.92	−17 22.5	1.071	1.551	40.2	19.2	96 W	24*	81
5 11	20 44.00	−15 10.6	1.009	1.559	39.5	19.1	101 W	27*	79
5 21	21 0.17	−12 56.3	0.949	1.571	38.2	18.9	106 W	30*	77
5 31	21 13.03	−10 44.9	0.894	1.585	36.3	18.7	112 W	33*	75
6 10	21 22.23	− 8 42.0	0.843	1.603	33.7	18.6	119 W	36*	73
6 15	21 25.35	− 7 45.5	0.819	1.612	32.1	18.5	123 W	37*	72
6 20	21 27.41	− 6 53.2	0.798	1.623	30.2	18.4	126 W	38	71
6 25	21 28.38	− 6 6.1	0.778	1.634	28.2	18.3	131 W	39	70
6 30	21 28.28	− 5 24.9	0.761	1.646	25.9	18.2	135 W	40	69
7 10	21 24.99	− 4 22.4	0.736	1.671	20.7	18.0	144 W	41	68
7 20	21 18.10	− 3 49.8	0.724	1.698	15.1	17.8	154 W	41	68
7 30	21 8.87	− 3 47.9	0.729	1.726	9.7	17.6	163 W	41	68

124192 Moletai *(continuation)*

8 4	21 3.95	− 3 57.1	0.738	1.741	7.8	17.6	167 W	41	68
8 9	20 59.13	− 4 12.0	0.753	1.757	7.1	17.6	168 E	41	68
8 14	20 54.64	− 4 31.3	0.772	1.772	8.0	17.7	166 E	40	69
8 19	20 50.67	− 4 53.9	0.797	1.788	9.8	17.9	163 E	40	69
8 24	20 47.38	− 5 18.4	0.826	1.804	12.0	18.1	158 E	40	69
8 29	20 44.92	− 5 43.7	0.860	1.820	14.3	18.3	154 E	39	70
9 3	20 43.33	− 6 8.5	0.898	1.837	16.5	18.5	149 E	39	70
9 8	20 42.63	− 6 32.0	0.940	1.854	18.5	18.7	144 E	38	71
9 18	20 43.89	− 7 12.8	1.037	1.888	22.0	19.0	135 E	38	71
9 28	20 48.47	− 7 41.9	1.147	1.922	24.7	19.4	127 E	37	72
10 8	20 55.86	− 7 57.4	1.268	1.956	26.6	19.7	119 E	37	72
10 18	21 5.57	− 7 58.8	1.398	1.991	27.8	20.0	111 E	37	72
10 28	21 17.15	− 7 46.1	1.535	2.026	28.4	20.2	104 E	37	72
11 7	21 30.15	− 7 20.2	1.678	2.060	28.5	20.4	98 E	38	71*
11 17	21 44.25	− 6 41.9	1.825	2.094	28.2	20.7	91 E	38	67*
11 27	21 59.19	− 5 52.4	1.975	2.128	27.5	20.8	85 E	39	61*
12 7	22 14.73	− 4 52.7	2.124	2.162	26.6	21.0	79 E	40	55*
12 17	22 30.72	− 3 44.4	2.273	2.194	25.4	21.2	73 E	41*	48*
12 27	22 47.03	− 2 28.3	2.420	2.227	24.0	21.3	67 E	42*	42*
1 6	23 3.55	− 1 6.0	2.563	2.258	22.4	21.4	61 E	42*	36*
1 16	23 20.22	+ 0 21.3	2.701	2.289	20.7	21.5	55 E	40*	30*

41588 2000 SC_{46}

12 23	14 25.92	−27 28.8	2.127	1.652	26.6	17.1	49 W	15*	41*
1 2	14 53.50	−28 57.1	2.084	1.674	27.7	17.1	52 W	15*	45*
1 12	15 20.54	−30 3.6	2.036	1.698	28.7	17.2	56 W	14*	49*
1 22	15 46.74	−30 48.2	1.984	1.725	29.7	17.2	60 W	13*	54*
2 1	16 11.77	−31 11.5	1.927	1.754	30.6	17.2	65 W	13*	59*
2 11	16 35.28	−31 14.2	1.864	1.785	31.3	17.1	70 W	13*	64*
2 21	16 56.93	−30 57.7	1.796	1.818	31.7	17.1	75 W	14*	69*
3 2	17 16.35	−30 23.7	1.724	1.852	31.9	17.1	81 W	14*	75*
3 12	17 33.19	−29 33.7	1.648	1.887	31.7	17.0	87 W	15*	81*
3 22	17 47.11	−28 29.5	1.570	1.923	31.1	16.9	94 W	16*	87*
4 1	17 57.73	−27 12.2	1.492	1.960	29.9	16.8	102 W	18*	89
4 11	18 4.72	−25 43.2	1.416	1.997	28.1	16.7	110 W	19	90
4 21	18 7.79	−24 3.2	1.345	2.035	25.5	16.6	119 W	21	88
5 1	18 6.74	−22 13.2	1.283	2.073	22.1	16.4	129 W	23	86
5 11	18 1.70	−20 14.7	1.235	2.111	17.9	16.2	140 W	25	84
5 16	17 57.82	−19 13.2	1.218	2.130	15.6	16.1	146 W	26	83
5 21	17 53.16	−18 10.8	1.206	2.149	13.1	16.0	151 W	27	82
5 26	17 47.87	−17 8.4	1.199	2.168	10.5	15.9	157 W	28	81
5 31	17 42.12	−16 6.8	1.199	2.187	8.0	15.9	163 W	29	80
6 5	17 36.11	−15 6.9	1.205	2.206	5.8	15.8	167 W	30	79
6 10	17 30.03	−14 9.9	1.217	2.225	4.4	15.8	170 W	31	78
6 15	17 24.07	−13 16.5	1.237	2.244	4.7	15.8	170 E	32	77
6 20	17 18.40	−12 27.6	1.263	2.262	6.2	16.0	166 E	33	76
6 25	17 13.20	−11 43.9	1.295	2.281	8.3	16.1	161 E	33	76
6 30	17 8.58	−11 5.7	1.334	2.299	10.4	16.3	156 E	34	75
7 10	17 1.45	−10 6.4	1.427	2.336	14.4	16.6	145 E	35	74
7 20	16 57.34	− 9 28.6	1.541	2.372	17.6	16.9	135 E	36	73
7 30	16 56.27	− 9 9.2	1.669	2.407	20.0	17.2	126 E	36	73
8 9	16 58.02	− 9 4.1	1.810	2.442	21.7	17.5	117 E	36*	73
8 19	17 2.24	− 9 9.2	1.960	2.476	22.8	17.7	109 E	36*	73
8 29	17 8.62	− 9 20.9	2.115	2.509	23.3	17.9	101 E	35*	73
9 8	17 16.81	− 9 35.9	2.274	2.541	23.3	18.1	93 E	34*	74*
9 18	17 26.53	− 9 51.6	2.433	2.573	22.9	18.3	86 E	34*	71*
9 28	17 37.54	−10 5.9	2.592	2.604	22.2	18.4	80 E	33*	67*
10 8	17 49.61	−10 17.0	2.747	2.634	21.3	18.5	73 E	32*	61*
10 18	18 2.56	−10 23.5	2.898	2.663	20.1	18.6	67 E	31*	54*
10 28	18 16.24	−10 24.4	3.043	2.691	18.7	18.7	60 E	31*	48*
11 7	18 30.47	−10 18.7	3.180	2.719	17.2	18.8	54 E	30*	40*
11 17	18 45.15	−10 5.9	3.308	2.745	15.5	18.8	48 E	28*	33*
11 27	19 0.15	− 9 45.5	3.425	2.771	13.8	18.9	42 E	27*	26*
12 7	19 15.35	− 9 17.3	3.530	2.796	12.0	18.9	36 E	25*	18*
12 17	19 30.67	− 8 41.2	3.623	2.819	10.2	18.9	30 E	22*	11*
12 27	19 46.01	− 7 57.2	3.702	2.842	8.4	18.9	25 E	18*	4*
1 6	20 1.29	− 7 5.6	3.767	2.864	6.8	18.9	20 E	14*	—
1 16	20 16.43	− 6 6.6	3.817	2.885	5.4	18.9	16 E	9*	—

126410 2002 BU_{18}

12 23	14 26.05	− 0 55.2	4.033	3.593	13.3	21.4	57 W	41*	31*
1 2	14 35.39	− 1 3.6	3.900	3.592	14.3	21.3	65 W	43*	39*
1 12	14 43.91	− 1 2.0	3.758	3.590	15.2	21.3	73 W	44*	47*
1 22	14 51.46	− 0 49.9	3.610	3.587	15.7	21.2	81 W	44	54*
2 1	14 57.82	− 0 26.6	3.458	3.583	16.0	21.1	89 W	45	60*
2 11	15 2.79	+ 0 8.2	3.306	3.578	15.9	21.0	98 W	45	63*
2 21	15 6.17	+ 0 54.2	3.157	3.572	15.4	20.9	107 W	46	63
3 2	15 7.77	+ 1 50.8	3.016	3.565	14.5	20.8	116 W	47	62
3 12	15 7.44	+ 2 56.7	2.887	3.558	13.1	20.6	126 W	48	61
3 22	15 5.11	+ 4 9.3	2.775	3.549	11.5	20.5	135 W	49	60

126410 2002 BU_{18} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 1	15 0.83	+ 5 25.1	2.683	3.540	9.6	20.3	144 W	50	59
4 11	14 54.82	+ 6 39.4	2.615	3.530	7.7	20.2	152 W	52	57
4 16	14 51.30	+ 7 14.4	2.591	3.524	7.0	20.1	155 W	52	57
4 21	14 47.50	+ 7 47.0	2.574	3.519	6.5	20.1	157 W	53	56
4 26	14 43.51	+ 8 16.7	2.564	3.513	6.4	20.1	157 W	53	56
5 1	14 39.41	+ 8 42.8	2.561	3.507	6.7	20.1	156 W	54	55
5 11	14 31.24	+ 9 22.5	2.577	3.494	8.1	20.1	151 E	54	55
5 21	14 23.64	+ 9 43.9	2.618	3.480	10.1	20.2	143 E	55	54
5 31	14 17.19	+ 9 46.4	2.682	3.466	12.1	20.4	134 E	55	54
6 10	14 12.30	+ 9 31.0	2.766	3.450	13.9	20.5	125 E	55	54
6 20	14 9.22	+ 9 0.0	2.864	3.434	15.4	20.6	116 E	54*	55
6 30	14 8.02	+ 8 15.8	2.974	3.417	16.5	20.7	107 E	52*	56
7 10	14 8.67	+ 7 21.3	3.090	3.398	17.2	20.8	99 E	48*	57
7 20	14 11.07	+ 6 18.7	3.209	3.379	17.5	20.9	91 E	44*	58
7 30	14 15.10	+ 5 10.3	3.328	3.359	17.5	21.0	83 E	40*	59*
8 9	14 20.58	+ 3 57.9	3.444	3.338	17.1	21.0	76 E	36*	58*
8 19	14 27.38	+ 2 43.0	3.554	3.317	16.5	21.0	68 E	33*	54*
8 29	14 35.38	+ 1 26.9	3.656	3.294	15.6	21.1	61 E	30*	49*
9 8	14 44.43	+ 0 10.8	3.749	3.271	14.5	21.1	55 E	27*	44*
9 18	14 54.43	− 1 4.4	3.831	3.246	13.3	21.0	48 E	25*	38*
9 28	15 5.30	− 2 17.7	3.900	3.221	11.9	21.0	42 E	22*	31*
10 8	15 16.95	− 3 28.1	3.955	3.195	10.5	21.0	35 E	20*	25*
10 18	15 29.29	− 4 35.1	3.996	3.167	8.9	20.9	30 E	18*	18*
10 28	15 42.27	− 5 37.7	4.021	3.139	7.4	20.8	24 E	15*	11*
11 7	15 55.81	− 6 35.2	4.031	3.111	5.9	20.8	19 E	12*	4*
11 17	16 9.85	− 7 27.0	4.025	3.081	4.8	20.7	15 E	9*	—
11 27	16 24.32	− 8 12.4	4.002	3.050	4.3	20.6	13 E	5*	—
12 7	16 39.15	− 8 50.7	3.964	3.019	4.6	20.6	14 W	7*	—
12 17	16 54.27	− 9 21.7	3.909	2.986	5.7	20.6	18 W	12*	—
12 27	17 9.61	− 9 44.6	3.839	2.953	7.3	20.6	22 W	16*	3*
1 6	17 25.06	− 9 59.4	3.755	2.919	9.0	20.6	28 W	19*	10*
1 16	17 40.57	−10 5.8	3.657	2.884	10.8	20.6	33 W	22*	17*

175943 2000 GE_1

12 23	14 26.44	− 2 52.0	2.191	1.833	26.4	20.1	56 W	39*	32*
1 2	14 51.35	− 3 14.2	2.063	1.790	28.5	20.0	60 W	40*	36*
1 12	15 17.17	− 3 20.4	1.936	1.747	30.4	19.9	64 W	40*	41*
1 22	15 43.92	− 3 8.2	1.813	1.703	32.3	19.7	68 W	41*	45*
2 1	16 11.53	− 2 35.5	1.696	1.661	34.1	19.6	71 W	42*	49*
2 11	16 39.95	− 1 40.7	1.585	1.619	35.9	19.4	74 W	42*	52*
2 21	17 9.06	− 0 23.4	1.482	1.578	37.5	19.3	76 W	44*	54*
3 2	17 38.70	+ 1 16.0	1.388	1.538	39.2	19.1	79 W	45*	55*
3 12	18 8.67	+ 3 15.2	1.304	1.501	40.7	19.0	80 W	46*	56*
3 17	18 23.73	+ 4 21.0	1.265	1.483	41.5	18.9	81 W	47*	56*
3 22	18 38.80	+ 5 30.3	1.228	1.466	42.3	18.8	82 W	48*	55*
3 27	18 53.85	+ 6 42.4	1.194	1.449	43.0	18.8	82 W	48*	55*
4 1	19 8.85	+ 7 56.4	1.161	1.433	43.8	18.7	83 W	49*	54*
4 6	19 23.80	+ 9 11.5	1.130	1.419	44.5	18.6	83 W	50*	54*
4 11	19 38.66	+10 26.9	1.102	1.405	45.2	18.6	84 W	51*	53*
4 16	19 53.43	+11 41.7	1.074	1.392	45.8	18.5	84 W	51*	52*
4 21	20 8.07	+12 55.2	1.048	1.380	46.5	18.5	84 W	52*	51*
4 26	20 22.57	+14 6.4	1.023	1.369	47.1	18.4	85 W	53*	50*
5 1	20 36.92	+15 14.4	0.999	1.360	47.6	18.4	85 W	53*	49*
5 6	20 51.10	+16 18.4	0.976	1.351	48.1	18.3	86 W	54*	48
5 11	21 5.11	+17 17.8	0.953	1.344	48.6	18.3	86 W	54*	47
5 16	21 18.94	+18 11.8	0.930	1.338	49.0	18.2	87 W	55*	46
5 21	21 32.55	+18 59.6	0.908	1.334	49.3	18.2	88 W	56*	45
5 26	21 45.92	+19 40.6	0.885	1.331	49.6	18.1	89 W	57*	44
5 31	21 59.04	+20 13.9	0.863	1.329	49.7	18.0	90 W	57*	44
6 5	22 11.89	+20 38.8	0.840	1.329	49.8	18.0	91 W	58*	43
6 10	22 24.44	+20 54.5	0.817	1.330	49.7	17.9	92 W	59*	43
6 15	22 36.66	+21 0.3	0.793	1.333	49.5	17.9	94 W	60*	43
6 20	22 48.48	+20 55.2	0.770	1.337	49.1	17.8	96 W	61*	43
6 25	22 59.86	+20 38.0	0.746	1.342	48.6	17.7	98 W	62*	43
6 30	23 10.75	+20 7.6	0.721	1.349	47.9	17.6	100 W	62*	44
7 5	23 21.08	+19 22.9	0.697	1.356	46.9	17.6	103 W	63*	45
7 10	23 30.79	+18 22.6	0.674	1.366	45.7	17.5	106 W	63*	46
7 15	23 39.78	+17 5.3	0.650	1.376	44.2	17.4	109 W	62*	47
7 20	23 47.97	+15 29.6	0.628	1.388	42.4	17.2	113 W	60	49
7 25	23 55.26	+13 34.0	0.606	1.400	40.2	17.1	117 W	59	50
7 30	0 1.58	+11 17.8	0.587	1.414	37.7	17.0	122 W	56	53
8 9	0 11.00	+ 5 43.3	0.555	1.444	31.6	16.8	132 W	51	58
8 19	0 15.77	− 1 3.6	0.537	1.477	24.4	16.5	143 W	44	65
8 29	0 15.94	− 8 28.9	0.539	1.513	17.0	16.4	154 W	37	72
9 3	0 14.55	−12 8.8	0.548	1.532	14.1	16.3	158 W	33	76
9 8	0 12.40	−15 37.2	0.563	1.551	12.2	16.3	161 W	29	80
9 13	0 9.68	−18 47.7	0.584	1.571	11.8	16.4	161 W	26	83
9 18	0 6.65	−21 35.7	0.610	1.591	12.8	16.6	159 W	23	86
9 23	0 3.57	−23 58.3	0.642	1.611	14.7	16.8	156 W	21	88

175943 2000 GE_1 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 28	0 0.69	−25 54.7	0.679	1.632	16.9	17.0	152 E	19	90
10 3	23 58.22	−27 25.7	0.720	1.653	19.1	17.3	147 E	18	89
10 8	23 56.29	−28 33.1	0.766	1.675	21.1	17.5	143 E	16	87
10 13	23 55.03	−29 19.1	0.815	1.696	23.0	17.7	138 E	16	87
10 18	23 54.48	−29 46.2	0.867	1.717	24.6	17.9	134 E	15	86
10 23	23 54.71	−29 56.8	0.923	1.739	25.9	18.1	130 E	15	86
10 28	23 55.69	−29 53.5	0.981	1.761	27.1	18.3	126 E	15	86
11 2	23 57.40	−29 38.3	1.041	1.782	28.0	18.5	122 E	15	86
11 7	23 59.78	−29 13.2	1.103	1.804	28.8	18.7	119 E	16	87
11 12	0 2.79	−28 39.7	1.168	1.826	29.3	18.8	115 E	16	87
11 17	0 6.37	−27 59.1	1.234	1.847	29.8	19.0	112 E	17	88
11 22	0 10.48	−27 12.6	1.301	1.869	30.0	19.1	109 E	18	89
11 27	0 15.06	−26 21.4	1.369	1.890	30.2	19.3	106 E	19	90
12 2	0 20.06	−25 26.2	1.439	1.912	30.2	19.4	102 E	20	89
12 7	0 25.43	−24 27.8	1.509	1.933	30.2	19.5	99 E	21	88
12 12	0 31.12	−23 26.7	1.581	1.954	30.1	19.6	96 E	22	87*
12 17	0 37.12	−22 23.6	1.652	1.974	29.8	19.8	94 E	23	84*
12 22	0 43.38	−21 18.8	1.725	1.995	29.5	19.9	91 E	24	80*
12 27	0 49.88	−20 12.8	1.797	2.015	29.2	20.0	88 E	25	77*
1 1	0 56.59	−19 6.0	1.869	2.036	28.8	20.1	85 E	26	73*
1 6	1 3.48	−17 58.6	1.942	2.056	28.3	20.2	82 E	27	70*
1 11	1 10.55	−16 51.1	2.014	2.075	27.8	20.2	80 E	28	66*
1 16	1 17.77	−15 43.5	2.086	2.095	27.2	20.3	77 E	29	63*

140288 2001 SN_{289}

12 23	14 26.93	+ 3 38.8	1.254	1.127	48.5	19.3	59 W	45*	28*
12 28	14 39.19	− 0 33.1	1.196	1.092	50.7	19.2	59 W	42*	33*
1 2	14 52.35	− 5 7.1	1.142	1.058	52.9	19.1	59 W	38*	37*
1 7	15 6.75	−10 4.6	1.091	1.026	55.2	19.0	59 W	33*	41*
1 12	15 22.82	−15 25.7	1.046	0.996	57.5	18.9	59 W	28*	45*
1 17	15 41.12	−21 7.8	1.009	0.969	59.6	18.8	58 W	23*	48*
1 22	16 2.37	−27 4.5	0.980	0.944	61.5	18.7	57 W	17*	50*
1 24	16 11.89	−29 29.0	0.971	0.935	62.1	18.7	57 W	14*	51*
1 26	16 22.07	−31 53.1	0.964	0.926	62.7	18.7	57 W	12*	51*
1 28	16 32.99	−34 15.7	0.959	0.919	63.2	18.7	56 W	9*	50*
1 30	16 44.71	−36 35.7	0.956	0.911	63.6	18.7	56 W	6*	50*
2 1	16 57.28	−38 51.6	0.955	0.905	63.9	18.6	56 W	4*	49*
2 3	17 10.76	−41 2.0	0.956	0.899	64.1	18.6	55 W	1*	48*
2 5	17 25.18	−43 5.5	0.959	0.894	64.2	18.6	55 W	—	47*
2 7	17 40.56	−45 0.5	0.963	0.889	64.2	18.6	54 W	—	46*
2 9	17 56.88	−46 45.7	0.970	0.886	64.0	18.6	54 W	—	44*
2 11	18 14.09	−48 19.7	0.979	0.883	63.8	18.6	53 W	—	43*
2 13	18 32.10	−49 41.4	0.989	0.880	63.4	18.7	53 W	—	41*
2 15	18 50.77	−50 50.0	1.001	0.879	63.0	18.7	52 W	—	40*
2 17	19 9.90	−51 44.8	1.015	0.878	62.4	18.7	52 W	—	38*
2 19	19 29.29	−52 25.6	1.030	0.878	61.8	18.7	52 W	—	36*
2 21	19 48.70	−52 52.7	1.047	0.879	61.0	18.7	51 W	—	35*
2 23	20 7.88	−53 6.5	1.065	0.881	60.2	18.7	51 W	—	33*
2 25	20 26.61	−53 7.9	1.084	0.883	59.4	18.7	50 W	—	32*
2 27	20 44.70	−52 57.9	1.104	0.886	58.5	18.8	50 W	—	31*
2 29	21 2.01	−52 37.6	1.124	0.890	57.5	18.8	49 W	—	29*
3 2	21 18.43	−52 8.5	1.146	0.895	56.5	18.8	49 W	—	28*
3 4	21 33.91	−51 31.7	1.168	0.900	55.5	18.8	48 W	—	27*
3 6	21 48.41	−50 48.4	1.190	0.906	54.5	18.9	48 W	—	26*
3 8	22 1.96	−49 59.9	1.213	0.913	53.4	18.9	48 W	—	25*
3 10	22 14.58	−49 7.2	1.236	0.920	52.4	18.9	47 W	—	24*
3 12	22 26.33	−48 11.1	1.260	0.928	51.3	18.9	47 W	—	24*
3 14	22 37.25	−47 12.4	1.283	0.937	50.3	19.0	46 W	—	23*
3 16	22 47.42	−46 11.9	1.306	0.946	49.3	19.0	46 W	—	23*
3 18	22 56.88	−45 10.0	1.330	0.956	48.3	19.0	46 W	—	22*
3 20	23 5.70	−44 7.3	1.353	0.966	47.3	19.1	45 W	—	22*
3 22	23 13.94	−43 4.1	1.375	0.976	46.4	19.1	45 W	—	22*
3 24	23 21.65	−42 0.8	1.398	0.987	45.5	19.1	45 W	—	22*
3 26	23 28.88	−40 57.7	1.419	0.999	44.6	19.2	45 W	—	22*
3 28	23 35.66	−39 54.9	1.441	1.011	43.8	19.2	45 W	—	22*
3 30	23 42.05	−38 52.6	1.462	1.023	43.0	19.2	44 W	—	22*
4 1	23 48.08	−37 50.9	1.482	1.035	42.3	19.3	44 W	—	22*
4 6	0 1.78	−35 20.3	1.531	1.068	40.6	19.4	44 W	—	23*
4 11	0 13.86	−32 55.4	1.575	1.102	39.2	19.5	44 W	—	25*
4 16	0 24.63	−30 36.7	1.614	1.137	38.0	19.5	44 W	—	26*
4 21	0 34.33	−28 24.3	1.649	1.174	37.1	19.6	45 W	—	28*
4 26	0 43.15	−26 18.1	1.679	1.211	36.4	19.7	46 W	—	30*
5 1	0 51.22	−24 17.9	1.703	1.248	35.9	19.8	47 W	—	33*
5 6	0 58.63	−22 23.4	1.722	1.286	35.6	19.9	48 W	—	36*
5 11	1 5.46	−20 34.2	1.736	1.324	35.4	20.0	49 W	—	38*
5 21	1 17.61	−17 10.6	1.748	1.400	35.4	20.1	53 W	—	45*
5 31	1 27.87	−14 4.4	1.740	1.475	35.6	20.2	58 W	—	51*
6 10	1 36.30	−11 13.2	1.713	1.548	35.8	20.3	63 W	5*	57*
6 20	1 42.80	− 8 34.5	1.669	1.620	36.0	20.3	69 W	12*	63*
6 30	1 47.10	− 6 6.3	1.610	1.690	35.8	20.3	76 W	20*	67*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	140288 2001 SN_{289}				*(continuation)*				
	h m	° ′			°	m	°	°	°
7 10	1 48.79	− 3 46.4	1.539	1.757	35.1	20.3	84 W	28*	68*
7 20	1 47.35	− 1 32.9	1.460	1.823	33.8	20.2	93 W	37*	66
7 30	1 42.05	+ 0 35.4	1.377	1.885	31.6	20.1	103 W	44*	63
8 9	1 32.15	+ 2 39.5	1.297	1.946	28.4	20.0	114 W	48	61
8 19	1 17.02	+ 4 37.8	1.228	2.003	23.9	19.8	127 W	50	59
8 29	0 56.52	+ 6 26.6	1.178	2.059	18.2	19.6	140 W	51	58
9 3	0 44.51	+ 7 15.4	1.163	2.085	15.0	19.5	148 W	52	57
9 8	0 31.61	+ 7 59.3	1.156	2.111	11.7	19.4	155 W	53	56
9 13	0 18.14	+ 8 37.4	1.158	2.137	8.5	19.3	162 W	54	55
9 18	0 4.48	+ 9 9.2	1.169	2.162	5.7	19.2	168 W	54	55
9 23	23 51.03	+ 9 34.6	1.190	2.186	4.5	19.2	170 E	55	54
9 28	23 38.19	+ 9 54.1	1.221	2.209	5.7	19.3	167 E	55	54
10 3	23 26.26	+10 8.4	1.261	2.232	8.2	19.5	161 E	55	54
10 8	23 15.48	+10 18.5	1.309	2.255	10.8	19.7	155 E	55	54
10 13	23 6.00	+10 25.7	1.366	2.277	13.2	19.9	148 E	55	54
10 18	22 57.88	+10 31.1	1.429	2.298	15.4	20.1	142 E	56	53
10 23	22 51.13	+10 35.7	1.498	2.318	17.4	20.3	136 E	56	53
10 28	22 45.71	+10 40.6	1.572	2.339	19.0	20.5	130 E	56	53
11 7	22 38.47	+10 53.4	1.732	2.377	21.4	20.8	119 E	56	53
11 17	22 35.40	+11 13.2	1.903	2.413	22.8	21.1	109 E	56	53*
11 27	22 35.71	+11 42.2	2.079	2.446	23.4	21.3	100 E	57	50*
12 7	22 38.70	+12 21.0	2.256	2.478	23.4	21.5	91 E	57	45*
	257610 1999 RM_{215}								
12 23	14 29.24	−21 51.9	3.086	2.550	16.9	21.4	49 W	20*	39*
1 2	14 45.55	−23 14.6	2.952	2.521	18.6	21.3	55 W	21*	45*
1 12	15 1.75	−24 32.5	2.810	2.490	20.3	21.2	61 W	20*	53*
1 22	15 17.76	−25 45.1	2.661	2.459	21.7	21.1	68 W	19*	60*
2 1	15 33.40	−26 52.2	2.508	2.427	23.0	21.0	74 W	18*	67*
2 11	15 48.48	−27 53.3	2.351	2.395	24.0	20.9	80 W	17	74*
2 21	16 2.80	−28 48.4	2.193	2.362	24.7	20.7	87 W	16	81*
3 2	16 16.05	−29 37.4	2.036	2.328	25.1	20.5	94 W	15	86*
3 12	16 27.89	−30 20.2	1.880	2.294	25.1	20.3	101 W	15	86
3 22	16 37.95	−30 56.8	1.729	2.260	24.6	20.1	109 W	14	85
4 1	16 45.73	−31 26.8	1.585	2.225	23.6	19.8	117 W	14	85
4 6	16 48.62	−31 39.1	1.516	2.208	22.8	19.7	121 W	13	84
4 11	16 50.75	−31 49.3	1.450	2.190	21.8	19.6	126 W	13	84
4 16	16 52.07	−31 57.3	1.386	2.173	20.7	19.4	130 W	13	84
4 21	16 52.51	−32 2.7	1.326	2.155	19.3	19.3	135 W	13	84
5 1	16 50.61	−32 3.7	1.217	2.120	16.0	18.9	145 W	13	84
5 11	16 45.02	−31 48.3	1.126	2.085	11.9	18.6	155 W	13	84
5 21	16 36.17	−31 12.1	1.055	2.049	7.3	18.2	165 W	14	85
5 26	16 30.85	−30 45.3	1.028	2.032	5.2	18.0	169 W	14	85
5 31	16 25.22	−30 12.8	1.006	2.015	4.2	17.9	172 E	15	86
6 5	16 19.50	−29 35.0	0.991	1.997	5.2	17.9	170 E	15	86
6 10	16 13.93	−28 52.8	0.981	1.980	7.4	18.0	165 E	16	87
6 15	16 8.75	−28 7.3	0.977	1.963	10.1	18.1	160 E	17	88
6 20	16 4.16	−27 19.7	0.979	1.947	12.9	18.2	155 E	18	89
6 25	16 0.36	−26 31.7	0.985	1.930	15.6	18.3	149 E	18	89
6 30	15 57.49	−25 44.6	0.996	1.913	18.3	18.3	144 E	19	90
7 5	15 55.62	−24 59.5	1.011	1.897	20.7	18.4	139 E	20	89
7 10	15 54.80	−24 17.4	1.030	1.881	23.0	18.5	134 E	21	88
7 20	15 56.34	−23 4.6	1.077	1.850	27.0	18.7	124 E	22*	87
7 30	16 1.97	−22 8.4	1.132	1.821	30.1	18.9	116 E	22*	86
8 9	16 11.31	−21 27.7	1.194	1.792	32.5	19.0	108 E	23*	85
8 19	16 23.90	−20 59.4	1.260	1.766	34.2	19.2	101 E	23*	85
8 29	16 39.37	−20 39.5	1.328	1.741	35.3	19.3	95 E	23*	85
9 8	16 57.29	−20 23.8	1.396	1.719	35.9	19.4	90 E	23*	82*
9 18	17 17.31	−20 7.9	1.465	1.699	36.1	19.5	85 E	23*	77*
9 28	17 39.14	−19 48.2	1.534	1.682	35.9	19.5	80 E	24*	73*
10 8	18 2.46	−19 21.2	1.603	1.667	35.5	19.6	76 E	24*	68*
10 18	18 26.98	−18 44.1	1.672	1.655	34.8	19.6	72 E	25*	63*
10 28	18 52.45	−17 54.7	1.740	1.647	34.0	19.7	68 E	26*	59*
11 7	19 18.58	−16 51.7	1.809	1.641	32.9	19.7	64 E	27*	54*
11 17	19 45.14	−15 34.3	1.878	1.639	31.7	19.8	61 E	28*	49*
11 27	20 11.91	−14 2.3	1.947	1.641	30.4	19.8	57 E	29*	43*
12 7	20 38.69	−12 16.6	2.018	1.645	29.0	19.9	54 E	30*	38*
12 17	21 5.36	−10 18.2	2.089	1.653	27.5	19.9	51 E	31*	33*
12 27	21 31.78	− 8 8.8	2.161	1.663	25.9	20.0	48 E	31*	28*
1 6	21 57.89	− 5 50.5	2.234	1.677	24.2	20.0	44 E	31*	24*
1 16	22 23.66	− 3 25.3	2.308	1.694	22.4	20.0	41 E	31*	19*
	275677 2000 RS_{11}								
12 23	14 29.61	−15 41.5	1.228	0.968	51.6	21.3	50 W	26*	37*
1 2	15 7.11	−15 49.7	1.257	1.013	49.9	21.4	52 W	27*	38*
1 12	15 42.71	−15 33.5	1.279	1.061	48.6	21.5	54 W	27*	41*
1 22	16 16.30	−14 54.2	1.293	1.112	47.6	21.6	57 W	28*	44*
2 1	16 47.77	−13 53.2	1.298	1.163	46.8	21.7	59 W	29*	47*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	353947 1999 CT_8								
	h m	° ′			°	m	°	°	°
12 23	14 30.42	+34 42.0	0.750	1.093	61.2	20.6	77 W	71*	9*
12 28	14 25.37	+34 14.8	0.726	1.126	59.6	20.5	81 W	75*	13*
1 2	14 19.17	+33 51.9	0.698	1.158	57.8	20.4	85 W	77*	18*
1 7	14 11.43	+33 33.4	0.667	1.190	55.7	20.3	90 W	79*	22*
1 12	14 1.67	+33 18.6	0.633	1.221	53.3	20.2	96 W	78	26*
1 17	13 49.35	+33 6.2	0.599	1.252	50.3	20.0	102 W	78	29*
1 22	13 33.81	+32 53.2	0.564	1.282	46.7	19.9	109 W	78	31*
1 27	13 14.40	+32 34.3	0.531	1.311	42.3	19.7	116 W	78	31
2 1	12 50.67	+32 1.3	0.502	1.339	37.0	19.4	125 W	77	32
2 6	12 22.65	+31 3.5	0.479	1.366	30.8	19.2	135 W	76	33
2 11	11 51.20	+29 30.4	0.464	1.393	23.8	19.0	145 W	75	34
2 13	11 38.02	+28 41.9	0.460	1.403	21.0	18.9	149 W	74	35
2 15	11 24.71	+27 46.8	0.459	1.413	18.1	18.8	154 W	73	36
2 17	11 11.43	+26 45.4	0.459	1.423	15.3	18.7	158 W	72	37
2 19	10 58.32	+25 38.6	0.461	1.433	12.7	18.7	161 W	71	38
2 21	10 45.55	+24 27.0	0.466	1.443	10.5	18.6	165 W	69	40
2 23	10 33.25	+23 11.8	0.472	1.453	9.0	18.6	167 W	68	41
2 25	10 21.51	+21 54.2	0.480	1.462	8.5	18.6	167 E	67	42
2 27	10 10.44	+20 35.3	0.490	1.471	9.0	18.7	167 E	66	43
2 29	10 0.08	+19 16.3	0.502	1.480	10.4	18.8	164 E	64	45
3 2	9 50.47	+17 58.2	0.516	1.489	12.2	19.0	162 E	63	46
3 4	9 41.62	+16 41.7	0.531	1.498	14.1	19.1	158 E	62	47
3 6	9 33.53	+15 27.6	0.548	1.507	16.1	19.3	155 E	60	49
3 8	9 26.17	+14 16.4	0.566	1.515	18.1	19.4	152 E	59	50
3 10	9 19.51	+13 8.3	0.586	1.524	19.9	19.6	149 E	58	51
3 12	9 13.52	+12 3.6	0.607	1.532	21.7	19.7	145 E	57	52
3 17	9 1.19	+ 9 36.7	0.663	1.552	25.5	20.0	138 E	55	54
3 22	8 52.17	+ 7 29.9	0.724	1.570	28.6	20.3	131 E	52	57
3 27	8 45.89	+ 5 40.7	0.790	1.588	31.0	20.6	125 E	51	58
4 1	8 41.84	+ 4 6.1	0.858	1.605	32.9	20.9	119 E	49	60
4 6	8 39.61	+ 2 43.2	0.928	1.621	34.2	21.1	114 E	48	61
4 11	8 38.86	+ 1 29.4	1.000	1.636	35.3	21.3	110 E	46	63
	3674 Erbisbühl								
12 23	14 30.55	−33 24.1	3.832	3.244	12.8	18.2	47 W	9*	41*
1 2	14 42.91	−34 46.7	3.727	3.246	14.2	18.2	54 W	9*	48*
1 12	14 54.58	−36 7.8	3.610	3.246	15.3	18.2	61 W	9*	55*
1 22	15 5.38	−37 27.5	3.483	3.246	16.3	18.1	68 W	8*	62*
2 1	15 15.05	−38 45.7	3.349	3.244	17.1	18.1	75 W	6	68*
2 11	15 23.31	−40 2.1	3.209	3.241	17.6	18.0	83 W	5	73*
2 21	15 29.85	−41 16.3	3.066	3.237	17.8	17.9	91 W	4	75*
2 26	15 32.35	−41 52.4	2.994	3.235	17.7	17.9	95 W	3	74
3 2	15 34.28	−42 27.5	2.923	3.232	17.6	17.8	99 W	3	74
3 7	15 35.59	−43 1.5	2.853	3.229	17.4	17.7	103 W	2	73
3 12	15 36.24	−43 34.0	2.784	3.226	17.1	17.7	108 W	1	72
3 17	15 36.19	−44 4.9	2.717	3.223	16.6	17.6	112 W	1	72
3 22	15 35.39	−44 33.5	2.652	3.219	16.1	17.5	116 W	—	71
4 1	15 31.47	−45 22.2	2.532	3.211	14.8	17.4	125 W	—	71
4 11	15 24.48	−45 55.2	2.427	3.202	13.1	17.2	134 W	—	70
4 21	15 14.73	−46 7.5	2.341	3.192	11.2	17.1	142 W	—	70
4 26	15 9.03	−46 4.2	2.306	3.186	10.3	17.0	145 W	—	70
5 1	15 2.97	−45 54.2	2.277	3.181	9.5	16.9	149 W	—	70
5 6	14 56.71	−45 37.2	2.255	3.175	8.9	16.9	151 W	—	70
5 11	14 50.39	−45 13.5	2.239	3.168	8.5	16.8	152 E	—	71
5 16	14 44.20	−44 43.2	2.230	3.162	8.5	16.8	153 E	—	71
5 21	14 38.28	−44 7.1	2.228	3.155	8.8	16.8	152 E	1	72
5 26	14 32.79	−43 25.9	2.232	3.148	9.4	16.9	150 E	2	73
5 31	14 27.84	−42 40.6	2.243	3.141	10.2	16.9	147 E	2	73
6 5	14 23.53	−41 52.5	2.259	3.133	11.1	16.9	143 E	3	74
6 10	14 19.92	−41 2.5	2.282	3.125	12.2	17.0	140 E	4	75
6 15	14 17.05	−40 11.8	2.310	3.117	13.2	17.1	135 E	5	76
6 20	14 14.92	−39 21.3	2.343	3.108	14.2	17.1	131 E	6*	77
6 25	14 13.55	−38 32.0	2.381	3.100	15.2	17.2	127 E	6*	77
6 30	14 12.91	−37 44.6	2.423	3.091	16.1	17.2	123 E	7*	78
7 10	14 13.73	−36 17.6	2.517	3.072	17.6	17.4	114 E	7*	80
7 20	14 17.10	−35 3.1	2.621	3.052	18.7	17.5	105 E	6*	81
7 30	14 22.73	−34 2.3	2.731	3.031	19.4	17.6	97 E	5*	82*
8 9	14 30.32	−33 14.9	2.844	3.010	19.7	17.7	89 E	5*	78*
8 19	14 39.61	−32 39.7	2.957	2.987	19.6	17.7	82 E	4*	72*
8 29	14 50.40	−32 15.1	3.067	2.962	19.2	17.8	75 E	3*	66*
9 8	15 2.50	−31 59.3	3.171	2.937	18.5	17.8	68 E	3*	59*
9 18	15 15.77	−31 50.3	3.269	2.911	17.5	17.8	61 E	2*	53*
9 28	15 30.09	−31 46.3	3.357	2.884	16.3	17.8	54 E	1*	46*
10 8	15 45.33	−31 45.2	3.435	2.856	14.9	17.8	47 E	1*	40*
10 18	16 1.42	−31 45.5	3.501	2.826	13.4	17.8	41 E	—	34*
10 28	16 18.28	−31 45.4	3.553	2.796	11.7	17.7	35 E	—	28*
11 7	16 35.79	−31 43.3	3.592	2.764	9.9	17.6	29 E	—	22*
11 17	16 53.91	−31 37.8	3.617	2.732	8.1	17.5	23 E	—	17*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	3674 Erbisbühl							*(continuation)*	
	h m	° ′			°	m	°	°	°
11 27	17 12.53	−31 27.7	3.626	2.699	6.2	17.4	17 E	—	11*
12 7	17 31.56	−31 11.7	3.621	2.664	4.3	17.3	12 E	—	5*
12 17	17 50.91	−30 48.8	3.600	2.628	3.0	17.2	8 E	—	—
12 27	18 10.50	−30 18.1	3.564	2.592	2.9	17.1	8 W	—	—
1 6	18 30.22	−29 38.9	3.513	2.555	4.2	17.1	11 W	—	5*
1 16	18 49.99	−28 50.7	3.448	2.516	6.1	17.2	16 W	—	10*
	85185 Lederman								
12 23	14 31.31	−17 6.6	2.547	2.052	21.4	21.0	50 W	25*	37*
1 2	14 52.77	−18 34.8	2.423	2.018	23.4	21.0	55 W	25*	43*
1 12	15 14.72	−19 54.1	2.295	1.983	25.3	20.9	59 W	24*	49*
1 22	15 37.16	−21 3.0	2.164	1.948	27.0	20.7	64 W	23*	55*
2 1	15 59.99	−22 0.0	2.033	1.914	28.7	20.6	69 W	23*	60*
2 11	16 23.14	−22 43.6	1.901	1.880	30.2	20.5	74 W	22*	66*
2 21	16 46.49	−23 12.5	1.771	1.846	31.6	20.3	78 W	22*	71*
3 2	17 9.87	−23 25.6	1.643	1.814	32.9	20.2	83 W	21*	76*
3 12	17 33.08	−23 22.0	1.518	1.782	33.9	20.0	88 W	21*	81*
3 22	17 55.90	−23 1.2	1.397	1.751	34.6	19.8	92 W	22*	85*
4 1	18 18.03	−22 23.1	1.281	1.722	35.2	19.6	97 W	22*	86
4 11	18 39.20	−21 28.0	1.171	1.694	35.3	19.3	102 W	23*	85
4 21	18 59.05	−20 17.0	1.066	1.668	35.1	19.1	107 W	24*	84
5 1	19 17.18	−18 51.4	0.969	1.644	34.5	18.8	113 W	26*	83
5 11	19 33.19	−17 13.9	0.880	1.623	33.3	18.6	118 W	28*	81
5 21	19 46.61	−15 27.5	0.799	1.604	31.5	18.3	124 W	30*	79
5 31	19 56.92	−13 36.7	0.728	1.588	28.9	18.0	131 W	31	78
6 10	20 3.74	−11 47.3	0.666	1.575	25.5	17.7	138 W	33	76
6 15	20 5.72	−10 55.2	0.640	1.570	23.5	17.5	142 W	34	75
6 20	20 6.74	−10 6.2	0.616	1.565	21.4	17.4	146 W	35	74
6 25	20 6.80	− 9 21.3	0.596	1.562	19.0	17.2	150 W	36	73
6 30	20 5.98	− 8 41.6	0.579	1.559	16.5	17.1	154 W	36	73
7 5	20 4.40	− 8 8.0	0.566	1.557	14.0	16.9	158 W	37	72
7 10	20 2.20	− 7 41.1	0.557	1.556	11.7	16.8	162 W	37	72
7 20	19 56.65	− 7 9.6	0.550	1.556	8.8	16.7	166 E	38	71
7 30	19 51.18	− 7 7.9	0.559	1.560	10.4	16.8	164 E	38	71
8 9	19 47.63	− 7 30.3	0.584	1.568	14.8	17.0	157 E	37	72
8 14	19 46.98	− 7 47.9	0.602	1.573	17.2	17.2	153 E	37	72
8 19	19 47.23	− 8 8.2	0.624	1.578	19.5	17.4	149 E	37	72
8 24	19 48.43	− 8 29.9	0.649	1.585	21.7	17.5	145 E	37	72
8 29	19 50.61	− 8 51.8	0.678	1.592	23.8	17.7	141 E	36	73
9 3	19 53.74	− 9 12.9	0.709	1.600	25.6	17.8	137 E	36	73
9 8	19 57.75	− 9 32.4	0.743	1.609	27.2	18.0	133 E	35	74
9 18	20 8.20	−10 4.0	0.820	1.629	29.9	18.3	126 E	35	74
9 28	20 21.45	−10 22.3	0.906	1.651	31.8	18.6	120 E	35	74
10 8	20 36.87	−10 25.1	1.001	1.675	33.1	18.9	114 E	35	74
10 18	20 53.91	−10 11.8	1.105	1.702	33.8	19.2	108 E	35	74
10 28	21 12.15	− 9 42.4	1.215	1.730	34.1	19.4	103 E	35	74
11 7	21 31.17	− 8 57.7	1.332	1.760	33.9	19.7	97 E	36	72*
11 17	21 50.70	− 7 59.3	1.455	1.791	33.5	19.9	92 E	37	69*
11 27	22 10.53	− 6 48.6	1.582	1.823	32.7	20.1	87 E	38	64*
12 7	22 30.49	− 5 27.5	1.712	1.856	31.7	20.3	82 E	40	58*
12 17	22 50.47	− 3 57.7	1.845	1.890	30.5	20.4	77 E	41	52*
12 27	23 10.42	− 2 20.9	1.980	1.924	29.1	20.6	72 E	43*	47*
1 6	23 30.28	− 0 39.1	2.115	1.959	27.6	20.7	67 E	44*	41*
1 16	23 50.04	+ 1 6.3	2.249	1.993	25.9	20.8	62 E	44*	36*
	2102 Tantalus								
12 23	14 31.71	+40 13.3	0.278	0.976	83.3	16.1	80 W	74*	5*
12 24	14 50.46	+41 46.9	0.287	0.973	83.7	16.2	79 W	72*	2*
12 25	15 8.92	+43 4.1	0.296	0.969	84.0	16.2	79 W	69*	—
12 26	15 26.86	+44 5.7	0.306	0.966	84.2	16.3	78 W	67*	—
12 27	15 44.11	+44 53.2	0.317	0.963	84.3	16.4	77 W	65*	—
12 28	16 0.53	+45 28.3	0.329	0.960	84.3	16.5	76 W	63*	—
12 29	16 16.04	+45 52.6	0.342	0.957	84.3	16.5	75 W	61*	—
12 30	16 30.59	+46 7.8	0.356	0.954	84.2	16.6	75 W	60*	—
12 31	16 44.18	+46 15.4	0.370	0.951	84.0	16.7	74 W	58*	—
1 1	16 56.80	+46 16.8	0.384	0.948	83.8	16.7	73 W	57*	—
1 2	17 8.51	+46 13.2	0.399	0.945	83.5	16.8	73 W	56*	—
1 3	17 19.34	+46 5.6	0.414	0.942	83.2	16.9	72 W	54*	—
1 4	17 29.36	+45 54.7	0.429	0.940	82.9	16.9	71 W	53*	—
1 5	17 38.62	+45 41.4	0.445	0.937	82.5	17.0	71 W	52*	—
1 6	17 47.19	+45 26.2	0.461	0.935	82.1	17.0	70 W	51*	—
1 7	17 55.12	+45 9.5	0.476	0.932	81.6	17.1	70 W	51*	—
1 8	18 2.47	+44 51.7	0.493	0.930	81.2	17.1	69 W	50*	—
1 9	18 9.29	+44 33.1	0.509	0.928	80.7	17.2	69 W	49*	—
1 10	18 15.63	+44 14.0	0.525	0.925	80.2	17.2	68 W	49*	—
1 11	18 21.54	+43 54.4	0.541	0.923	79.7	17.3	68 W	48*	—
1 12	18 27.05	+43 34.6	0.557	0.922	79.2	17.3	67 W	48*	—

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	2102 Tantalus							*(continuation)*	
	h m	° ′			°	m	°	°	°
1 14	18 37.02	+42 54.6	0.590	0.918	78.1	17.4	66 W	47*	—
1 16	18 45.80	+42 14.8	0.622	0.915	77.0	17.5	65 W	47*	—
1 18	18 53.59	+41 35.3	0.654	0.912	75.8	17.5	64 W	46*	—
1 20	19 0.55	+40 56.6	0.686	0.910	74.7	17.6	63 W	46*	—
1 22	19 6.82	+40 18.5	0.717	0.908	73.5	17.6	62 W	46*	—
1 24	19 12.50	+39 41.2	0.748	0.906	72.3	17.7	61 W	45*	—
1 26	19 17.69	+39 4.7	0.777	0.905	71.2	17.7	60 W	45*	—
1 28	19 22.45	+38 28.8	0.806	0.904	70.0	17.8	60 W	45*	—
1 30	19 26.85	+37 53.6	0.834	0.904	68.9	17.8	59 W	45*	—
2 1	19 30.94	+37 19.0	0.862	0.904	67.8	17.8	58 W	45*	—
2 6	19 40.07	+35 54.7	0.926	0.907	65.1	17.9	57 W	45*	—
2 11	19 48.04	+34 33.0	0.983	0.912	62.6	18.0	55 W	46*	—
2 16	19 55.18	+33 13.4	1.033	0.919	60.4	18.1	54 W	46*	—
2 21	20 1.75	+31 55.6	1.076	0.929	58.5	18.1	53 W	46*	2*
2 26	20 7.89	+30 39.4	1.111	0.942	56.9	18.2	53 W	47*	6*
3 2	20 13.70	+29 24.3	1.138	0.956	55.7	18.2	53 W	47*	10*
3 12	20 24.63	+26 56.1	1.167	0.990	54.1	18.3	54 W	47*	17*
3 22	20 34.90	+24 27.8	1.166	1.030	53.5	18.4	56 W	47*	24*
4 1	20 44.57	+21 54.8	1.135	1.073	53.7	18.4	60 W	48*	31*
4 6	20 49.14	+20 34.1	1.110	1.096	53.9	18.4	62 W	48*	35*
4 11	20 53.52	+19 9.0	1.079	1.119	54.2	18.4	65 W	47*	38*
4 16	20 57.68	+17 37.9	1.042	1.143	54.5	18.4	68 W	47*	41*
4 21	21 1.57	+15 58.8	1.000	1.167	54.6	18.3	71 W	47*	45*
4 26	21 5.12	+14 9.2	0.954	1.190	54.6	18.3	75 W	47*	48*
5 1	21 8.27	+12 5.9	0.904	1.214	54.5	18.2	79 W	46*	51*
5 6	21 10.93	+ 9 44.6	0.851	1.237	54.0	18.1	83 W	46*	54*
5 11	21 12.99	+ 7 0.3	0.797	1.261	53.2	18.0	88 W	45*	57
5 16	21 14.30	+ 3 46.7	0.741	1.284	51.9	17.8	93 W	43*	60
5 21	21 14.64	− 0 4.4	0.686	1.306	50.0	17.6	99 W	41*	64
5 26	21 13.73	− 4 42.3	0.633	1.328	47.4	17.4	105 W	38*	69
5 31	21 11.19	−10 17.0	0.584	1.350	43.9	17.2	113 W	33*	74
6 5	21 6.51	−16 56.5	0.542	1.371	39.6	16.9	120 W	28*	81
6 10	20 58.97	−24 41.6	0.509	1.392	34.7	16.7	129 W	20*	89
6 12	20 54.93	−28 3.8	0.499	1.400	32.6	16.6	132 W	17	88
6 14	20 50.18	−31 33.1	0.491	1.408	30.6	16.5	135 W	13	84
6 16	20 44.63	−35 7.2	0.486	1.416	28.6	16.4	138 W	10	81
6 18	20 38.16	−38 43.6	0.483	1.423	26.9	16.4	141 W	6	77
6 20	20 30.67	−42 19.2	0.483	1.431	25.5	16.4	143 W	3	74
6 22	20 22.03	−45 50.7	0.486	1.438	24.4	16.4	144 W	—	70
6 24	20 12.11	−49 14.9	0.491	1.446	23.8	16.4	145 W	—	67
6 26	20 0.79	−52 28.6	0.498	1.453	23.6	16.4	145 W	—	64
6 28	19 47.95	−55 29.0	0.508	1.461	23.8	16.5	145 W	—	61
6 30	19 33.54	−58 13.7	0.520	1.468	24.3	16.5	143 W	—	58
7 2	19 17.55	−60 41.0	0.534	1.475	25.2	16.6	142 W	—	55
7 4	19 0.04	−62 49.5	0.551	1.482	26.2	16.7	140 W	—	53
7 6	18 41.20	−64 38.8	0.569	1.488	27.2	16.9	138 E	—	51
7 8	18 21.35	−66 8.9	0.588	1.495	28.4	17.0	136 E	—	50
7 10	18 0.90	−67 20.4	0.609	1.502	29.5	17.1	133 E	—	49
7 11	17 50.60	−67 49.6	0.620	1.505	30.1	17.2	132 E	—	48
7 12	17 40.35	−68 14.7	0.632	1.508	30.6	17.2	131 E	—	48
7 13	17 30.19	−68 36.0	0.643	1.511	31.1	17.3	130 E	—	47
7 14	17 20.21	−68 53.6	0.655	1.514	31.6	17.3	129 E	—	47
7 15	17 10.44	−69 7.9	0.667	1.518	32.1	17.4	127 E	—	47
7 16	17 0.95	−69 19.1	0.680	1.521	32.6	17.4	126 E	—	47
7 17	16 51.77	−69 27.5	0.692	1.524	33.1	17.5	125 E	—	47
7 18	16 42.95	−69 33.3	0.705	1.527	33.5	17.6	124 E	—	46
7 19	16 34.50	−69 37.0	0.718	1.530	33.9	17.6	123 E	—	46
7 20	16 26.45	−69 38.6	0.731	1.533	34.3	17.7	122 E	—	46
7 22	16 11.58	−69 37.0	0.757	1.539	35.0	17.8	120 E	—	46
7 24	15 58.38	−69 30.1	0.784	1.544	35.7	17.9	118 E	—	46
7 26	15 46.78	−69 19.7	0.812	1.550	36.2	18.0	116 E	—	47
7 28	15 36.71	−69 6.8	0.840	1.556	36.7	18.1	114 E	—	47
7 30	15 28.03	−68 52.4	0.868	1.561	37.2	18.2	112 E	—	47
8 1	15 20.61	−68 37.3	0.896	1.566	37.5	18.2	110 E	—	47
8 3	15 14.33	−68 22.1	0.924	1.571	37.8	18.3	108 E	—	48
8 5	15 9.06	−68 7.2	0.953	1.576	38.1	18.4	106 E	—	48
8 7	15 4.70	−67 52.8	0.981	1.581	38.3	18.5	105 E	—	48
8 9	15 1.15	−67 39.3	1.010	1.586	38.5	18.6	103 E	—	48*
8 11	14 58.33	−67 26.6	1.038	1.591	38.6	18.6	102 E	—	48*
8 13	14 56.15	−67 15.1	1.066	1.595	38.7	18.7	100 E	—	48*
8 15	14 54.56	−67 4.7	1.095	1.600	38.7	18.8	99 E	—	48*
8 17	14 53.50	−66 55.5	1.123	1.604	38.8	18.8	97 E	—	48*
8 19	14 52.92	−66 47.4	1.150	1.608	38.8	18.9	96 E	—	48*
8 21	14 52.78	−66 40.6	1.178	1.612	38.7	18.9	95 E	—	48*
8 23	14 53.03	−66 34.9	1.205	1.616	38.7	19.0	93 E	—	48*
8 25	14 53.66	−66 30.4	1.232	1.620	38.6	19.0	92 E	—	47*
8 27	14 54.61	−66 27.0	1.259	1.624	38.5	19.1	91 E	—	47*
8 29	14 55.89	−66 24.7	1.285	1.627	38.4	19.1	89 E	—	47*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2102 Tantalus *(continuation)*									
9 3	15 0.31	−66 23.5	1.350	1.636	38.0	19.2	87 E	—	45*
9 8	15 6.33	−66 27.9	1.412	1.643	37.6	19.3	84 E	—	44*
9 13	15 13.81	−66 37.4	1.471	1.650	37.1	19.4	81 E	—	43*
9 18	15 22.65	−66 51.2	1.527	1.656	36.5	19.5	79 E	—	42*
9 23	15 32.81	−67 8.8	1.580	1.661	36.0	19.6	76 E	—	41*
9 28	15 44.26	−67 29.3	1.629	1.666	35.4	19.6	74 E	—	40*
10 3	15 57.01	−67 51.9	1.676	1.669	34.8	19.7	72 E	—	39*
10 8	16 11.11	−68 15.9	1.718	1.672	34.2	19.7	70 E	—	38*
10 13	16 26.61	−68 40.4	1.757	1.674	33.7	19.7	69 E	—	37*
10 18	16 43.58	−69 4.5	1.793	1.676	33.2	19.8	67 E	—	37*
10 23	17 2.07	−69 27.2	1.825	1.676	32.7	19.8	65 E	—	36*
10 28	17 22.10	−69 47.3	1.853	1.676	32.2	19.8	64 E	—	36*
11 2	17 43.66	−70 3.5	1.877	1.675	31.8	19.8	63 E	—	36*
11 7	18 6.72	−70 14.5	1.898	1.673	31.4	19.8	62 E	—	36*
11 12	18 31.16	−70 18.9	1.915	1.670	31.1	19.9	61 E	—	36*
11 17	18 56.77	−70 15.3	1.929	1.667	30.8	19.9	60 E	—	36*
11 19	19 7.29	−70 11.3	1.934	1.665	30.7	19.9	59 E	—	36*
11 21	19 17.92	−70 5.7	1.938	1.664	30.6	19.9	59 E	—	36*
11 23	19 28.65	−69 58.5	1.942	1.662	30.6	19.9	59 E	—	36*
11 25	19 39.45	−69 49.6	1.945	1.660	30.5	19.9	59 E	—	36*
11 27	19 50.29	−69 38.9	1.948	1.658	30.4	19.9	58 E	—	37*
11 29	20 1.16	−69 26.3	1.950	1.655	30.4	19.9	58 E	—	37*
12 1	20 12.01	−69 11.9	1.952	1.653	30.3	19.9	58 E	—	37*
12 3	20 22.84	−68 55.5	1.954	1.651	30.3	19.9	58 E	—	37*
12 5	20 33.61	−68 37.1	1.955	1.648	30.3	19.8	57 E	—	38*
12 7	20 44.30	−68 16.8	1.955	1.645	30.2	19.8	57 E	—	38*
12 9	20 54.89	−67 54.5	1.955	1.642	30.2	19.8	57 E	—	38*
12 11	21 5.36	−67 30.1	1.955	1.639	30.2	19.8	57 E	—	38*
12 13	21 15.70	−67 3.7	1.955	1.636	30.2	19.8	57 E	—	39*
12 15	21 25.89	−66 35.4	1.954	1.633	30.2	19.8	57 E	—	39*
12 17	21 35.91	−66 5.0	1.953	1.630	30.2	19.8	56 E	—	39*
12 22	22 0.17	−64 40.4	1.948	1.621	30.3	19.8	56 E	—	40*
12 27	22 23.20	−63 3.9	1.943	1.611	30.3	19.8	56 E	—	41*
1 1	22 44.98	−61 15.9	1.936	1.601	30.4	19.8	56 E	—	42*
1 6	23 5.52	−59 16.9	1.928	1.589	30.6	19.7	55 E	—	42*
1 11	23 24.89	−57 7.5	1.920	1.577	30.7	19.7	55 E	—	43*
1 16	23 43.18	−54 48.5	1.911	1.565	30.9	19.7	55 E	—	44*
347538 2000 AP_1									
12 23	14 31.91	+ 3 24.5	1.928	1.633	30.7	20.8	58 W	44*	27*
1 2	14 56.22	+ 1 57.8	1.881	1.653	31.5	20.8	61 W	44*	33*
1 12	15 19.42	+ 0 43.7	1.831	1.676	32.2	20.8	65 W	44*	38*
1 22	15 41.37	− 0 17.4	1.778	1.701	32.8	20.8	69 W	44*	44*
2 1	16 1.85	− 1 5.7	1.721	1.727	33.2	20.8	74 W	43*	50*
2 11	16 20.66	− 1 41.8	1.660	1.756	33.4	20.7	79 W	43*	55*
2 21	16 37.56	− 2 7.2	1.596	1.785	33.4	20.7	84 W	43*	60*
3 2	16 52.23	− 2 23.6	1.528	1.817	33.1	20.6	90 W	43*	64*
3 12	17 4.37	− 2 33.7	1.458	1.849	32.3	20.5	96 W	42	66*
3 22	17 13.61	− 2 40.5	1.387	1.882	31.1	20.4	103 W	42	67
4 1	17 19.53	− 2 47.7	1.317	1.915	29.2	20.3	111 W	42	67
4 11	17 21.76	− 3 0.1	1.252	1.949	26.6	20.1	119 W	42	67
4 21	17 20.02	− 3 22.4	1.193	1.984	23.3	20.0	129 W	42	67
5 1	17 14.21	− 3 59.5	1.147	2.018	19.1	19.8	139 W	41	68
5 11	17 4.76	− 4 55.2	1.117	2.053	14.4	19.6	150 W	40	69
5 21	16 52.55	− 6 10.5	1.109	2.087	9.7	19.5	160 W	39	70
5 31	16 39.05	− 7 43.4	1.124	2.122	6.8	19.4	166 W	37	72
6 5	16 32.37	− 8 34.9	1.142	2.139	7.0	19.5	165 E	36	73
6 10	16 26.00	− 9 28.8	1.166	2.156	8.2	19.6	162 E	36	73
6 15	16 20.12	−10 24.1	1.197	2.173	10.0	19.7	158 E	35	74
6 20	16 14.88	−11 20.2	1.233	2.189	12.0	19.9	153 E	34	75
6 25	16 10.40	−12 16.5	1.276	2.206	14.0	20.0	148 E	33	76
6 30	16 6.74	−13 12.4	1.324	2.223	15.9	20.2	143 E	32	77
7 10	16 2.03	−15 1.9	1.433	2.255	19.2	20.5	133 E	30	79
7 20	16 0.72	−16 46.5	1.559	2.287	21.6	20.8	124 E	28*	81
7 30	16 2.60	−18 25.5	1.696	2.319	23.3	21.1	115 E	26*	82
8 9	16 7.29	−19 58.4	1.843	2.349	24.4	21.3	107 E	24*	84
138258 2000 GD_2									
12 23	14 32.05	− 8 51.6	1.221	0.994	51.5	21.4	52 W	33*	33*
1 2	14 51.99	−13 28.5	1.194	1.042	51.6	21.5	56 W	30*	41*
1 12	15 13.21	−18 12.2	1.150	1.079	52.2	21.5	60 W	26*	48*
1 22	15 36.35	−23 7.1	1.093	1.103	53.2	21.5	64 W	21*	55*
2 1	16 2.35	−28 17.1	1.027	1.116	54.5	21.4	67 W	16*	61*
2 11	16 32.75	−33 44.1	0.956	1.118	56.2	21.3	70 W	11*	64*
2 21	17 10.08	−39 24.4	0.885	1.109	58.2	21.2	72 W	5*	64*
3 2	17 58.20	−45 0.2	0.818	1.088	60.7	21.0	73 W	—	61*
3 12	19 2.15	−49 44.7	0.761	1.056	63.9	20.9	73 W	—	56*
3 22	20 24.29	−52 10.1	0.720	1.012	67.9	20.8	70 W	—	50*
4 1	21 55.28	−50 35.9	0.699	0.955	72.5	20.8	66 W	—	43*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
138258 2000 GD_2 *(continuation)*									
4 11	23 16.70	−44 37.0	0.701	0.886	77.3	20.8	60 W	—	37*
4 21	0 19.59	−35 21.8	0.729	0.805	81.7	20.8	52 W	—	33*
5 1	1 6.95	−24 13.4	0.784	0.711	84.6	20.8	45 W	—	29*
5 11	1 45.45	−11 59.6	0.867	0.607	84.6	20.7	37 W	—	26*
5 21	2 22.37	+ 1 0.0	0.982	0.502	78.8	20.3	29 W	—	22*
5 26	2 42.97	+ 7 40.3	1.052	0.455	72.5	20.0	25 W	—	19*
5 31	3 6.80	+14 16.9	1.128	0.418	63.6	19.7	22 W	1*	15*
6 5	3 35.22	+20 31.1	1.207	0.399	52.5	19.4	18 W	4*	11*
6 10	4 8.83	+25 55.9	1.283	0.400	41.0	19.3	15 W	5*	5*
6 12	4 23.58	+27 45.7	1.311	0.407	36.8	19.2	14 W	6*	3*
6 14	4 38.93	+29 22.2	1.339	0.417	33.2	19.2	13 W	6*	1*
6 16	4 54.73	+30 44.5	1.365	0.430	30.0	19.2	12 W	6*	—
6 18	5 10.82	+31 52.4	1.390	0.444	27.4	19.3	12 W	6*	—
6 20	5 27.05	+32 46.2	1.414	0.461	25.3	19.3	11 W	5*	—
6 22	5 43.26	+33 26.2	1.437	0.480	23.7	19.4	11 W	5*	—
6 24	5 59.31	+33 53.4	1.460	0.499	22.5	19.5	11 W	4*	—
6 26	6 15.10	+34 8.6	1.482	0.520	21.6	19.6	11 W	3*	—
6 28	6 30.51	+34 12.9	1.503	0.540	20.9	19.7	11 E	3*	—
6 30	6 45.48	+34 7.4	1.524	0.562	20.4	19.8	11 E	4*	—
7 2	6 59.96	+33 53.1	1.545	0.583	20.1	19.9	11 E	5*	—
7 4	7 13.90	+33 31.2	1.565	0.605	19.7	20.0	12 E	5*	—
7 6	7 27.29	+33 2.5	1.585	0.626	19.5	20.1	12 E	6*	—
7 8	7 40.13	+32 28.1	1.605	0.647	19.2	20.2	12 E	6*	—
7 10	7 52.41	+31 48.7	1.625	0.668	18.9	20.2	12 E	6*	—
7 12	8 4.15	+31 5.1	1.645	0.688	18.6	20.3	12 E	6*	—
7 14	8 15.38	+30 17.9	1.664	0.709	18.3	20.4	13 E	7*	—
7 16	8 26.11	+29 27.8	1.684	0.728	18.0	20.5	13 E	7*	—
7 18	8 36.36	+28 35.2	1.703	0.748	17.7	20.5	13 E	6*	—
7 20	8 46.18	+27 40.7	1.722	0.766	17.3	20.6	13 E	6*	—
7 25	9 8.95	+25 17.9	1.768	0.811	16.4	20.8	13 E	6*	2*
7 30	9 29.52	+22 49.6	1.813	0.853	15.4	20.9	13 E	5*	3*
8 4	9 48.28	+20 18.8	1.855	0.892	14.3	21.0	13 E	4*	3*
8 9	10 5.55	+17 47.5	1.895	0.928	13.1	21.1	12 E	3*	4*
8 14	10 21.62	+15 17.0	1.933	0.960	11.9	21.2	11 E	2*	4*
8 19	10 36.71	+12 47.9	1.967	0.989	10.7	21.2	10 E	1*	3*
8 24	10 51.00	+10 20.8	1.999	1.015	9.5	21.3	10 E	—	3*
8 29	11 4.66	+ 7 55.8	2.026	1.039	8.3	21.3	9 E	—	2*
9 3	11 17.83	+ 5 32.8	2.050	1.059	7.2	21.3	8 E	—	1*
9 8	11 30.63	+ 3 11.8	2.071	1.076	6.1	21.3	6 E	—	—
9 13	11 43.15	+ 0 52.6	2.088	1.090	5.1	21.3	5 E	—	—
9 18	11 55.51	− 1 25.0	2.100	1.102	4.2	21.3	5 E	—	—
9 23	12 7.77	− 3 41.1	2.109	1.110	3.7	21.3	4 E	—	—
9 28	12 20.03	− 5 55.9	2.113	1.116	3.5	21.3	4 E	—	—
10 3	12 32.35	− 8 9.6	2.114	1.119	3.9	21.3	4 W	—	—
10 8	12 44.82	−10 22.3	2.110	1.119	4.6	21.4	5 W	—	—
10 13	12 57.54	−12 34.2	2.103	1.116	5.5	21.4	6 W	—	—
10 18	13 10.57	−14 45.2	2.091	1.110	6.6	21.4	7 W	—	1*
10 23	13 24.02	−16 55.4	2.076	1.102	7.7	21.4	9 W	—	2*
10 28	13 37.98	−19 4.7	2.057	1.091	8.8	21.5	10 W	—	4*
11 2	13 52.56	−21 12.6	2.034	1.076	10.0	21.4	11 W	—	5*
11 7	14 7.91	−23 19.0	2.008	1.059	11.2	21.4	12 W	—	6*
11 12	14 24.15	−25 23.2	1.979	1.039	12.4	21.4	13 W	—	7*
11 17	14 41.47	−27 24.2	1.948	1.016	13.6	21.4	14 W	—	8*
11 22	15 0.01	−29 20.9	1.913	0.990	14.7	21.3	15 W	—	8*
11 27	15 19.99	−31 11.4	1.876	0.961	15.8	21.2	15 W	—	9*
12 2	15 41.61	−32 53.5	1.837	0.929	16.8	21.2	16 W	—	9*
12 7	16 5.06	−34 24.0	1.797	0.893	17.8	21.1	16 W	—	9*
12 12	16 30.52	−35 39.1	1.756	0.855	18.7	20.9	16 W	—	9*
12 17	16 58.09	−36 34.0	1.713	0.813	19.4	20.8	16 W	—	8*
12 22	17 27.76	−37 2.6	1.670	0.768	19.9	20.6	15 W	—	7*
12 27	17 59.35	−36 58.2	1.628	0.720	20.1	20.4	15 W	—	5*
1 1	18 32.49	−36 13.7	1.585	0.669	20.1	20.2	14 W	—	3*
1 6	19 6.64	−34 41.8	1.542	0.617	19.6	20.0	12 W	—	1*
1 11	19 41.09	−32 16.3	1.499	0.563	19.0	19.7	11 E	—	2*
1 16	20 15.08	−28 52.3	1.454	0.511	18.7	19.4	10 E	—	3*
70056 1999 JJ_8									
12 23	14 32.67	−17 33.2	2.689	2.178	20.0	19.9	49 W	24*	37*
1 2	14 52.99	−18 12.9	2.557	2.143	22.0	19.9	55 W	25*	42*
1 12	15 13.55	−18 39.8	2.420	2.107	23.8	19.8	60 W	25*	48*
1 22	15 34.27	−18 51.7	2.279	2.072	25.6	19.6	65 W	26*	55*
2 1	15 55.02	−18 46.6	2.136	2.036	27.2	19.5	71 W	26*	61*
2 11	16 15.67	−18 22.1	1.993	2.001	28.6	19.4	76 W	27*	66*
2 21	16 36.06	−17 35.9	1.850	1.966	29.8	19.2	82 W	27*	72*
3 2	16 55.96	−16 25.7	1.710	1.932	30.8	19.0	87 W	29*	76*
3 12	17 15.14	−14 49.2	1.574	1.898	31.5	18.8	93 W	30*	78*
3 22	17 33.33	−12 44.4	1.443	1.865	31.9	18.6	98 W	32*	77
4 1	17 50.21	−10 9.3	1.320	1.833	32.0	18.4	104 W	35*	74
4 11	18 5.44	− 7 3.4	1.206	1.802	31.7	18.1	109 W	38	71
4 21	18 18.67	− 3 26.9	1.103	1.773	31.1	17.9	114 W	42	67
5 1	18 29.47	+ 0 37.3	1.012	1.746	30.1	17.6	120 W	46	63

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
70056 1999 JJ_8 *(continuation)*									
5 6	18 33.84	+ 2 47.8	0.971	1.733	29.5	17.5	122 W	48	61
5 11	18 37.47	+ 5 2.5	0.934	1.720	29.0	17.4	124 W	50	59
5 16	18 40.31	+ 7 19.9	0.900	1.709	28.4	17.3	127 W	52	57
5 21	18 42.32	+ 9 38.1	0.870	1.697	27.8	17.2	129 W	55	54
5 26	18 43.49	+11 54.9	0.844	1.686	27.3	17.1	130 W	57	52
5 31	18 43.81	+14 7.9	0.821	1.676	26.9	17.0	132 W	59	50
6 5	18 43.34	+16 14.5	0.802	1.667	26.6	16.9	133 W	61	48
6 10	18 42.10	+18 12.2	0.787	1.658	26.4	16.9	133 W	63	46
6 15	18 40.19	+19 58.5	0.775	1.650	26.4	16.8	134 W	65	44
6 20	18 37.71	+21 31.1	0.766	1.642	26.5	16.8	134 W	67	42
6 25	18 34.82	+22 47.9	0.760	1.636	26.8	16.8	134 W	68	41
6 30	18 31.73	+23 47.4	0.757	1.630	27.1	16.8	133 E	69	40
7 5	18 28.62	+24 29.0	0.757	1.625	27.6	16.8	132 E	69	40
7 10	18 25.71	+24 52.6	0.759	1.621	28.1	16.8	131 E	70	39
7 15	18 23.17	+24 58.2	0.764	1.617	28.7	16.8	130 E	70	39
7 20	18 21.18	+24 46.7	0.770	1.615	29.4	16.9	129 E	70	39
7 25	18 19.92	+24 19.1	0.779	1.613	30.0	16.9	127 E	69	40
7 30	18 19.50	+23 37.1	0.790	1.612	30.6	16.9	126 E	69	40
8 4	18 20.00	+22 42.5	0.803	1.612	31.2	17.0	125 E	68	41
8 9	18 21.45	+21 37.1	0.817	1.613	31.8	17.1	123 E	67	42
8 14	18 23.87	+20 22.7	0.834	1.614	32.3	17.1	122 E	65	44
8 19	18 27.25	+19 1.1	0.853	1.617	32.8	17.2	120 E	64	45
8 24	18 31.58	+17 34.0	0.873	1.620	33.3	17.2	118 E	63	46
8 29	18 36.83	+16 3.3	0.896	1.624	33.7	17.3	117 E	61	48
9 3	18 42.91	+14 30.6	0.920	1.629	34.1	17.4	115 E	60	49
9 8	18 49.78	+12 57.4	0.947	1.635	34.4	17.5	114 E	58	51
9 13	18 57.37	+11 24.9	0.976	1.642	34.7	17.6	112 E	56	53
9 18	19 5.62	+ 9 54.3	1.007	1.649	34.9	17.6	110 E	55	54
9 23	19 14.47	+ 8 26.8	1.041	1.657	35.1	17.7	108 E	53	56
9 28	19 23.86	+ 7 3.5	1.077	1.666	35.2	17.8	106 E	52	57
10 3	19 33.71	+ 5 45.0	1.115	1.675	35.3	17.9	105 E	51	58
10 8	19 43.96	+ 4 32.0	1.156	1.685	35.3	18.0	103 E	50	59
10 18	20 5.43	+ 2 24.3	1.244	1.707	35.2	18.2	99 E	47	61*
10 28	20 27.86	+ 0 42.9	1.342	1.732	34.9	18.4	95 E	46	62*
11 7	20 50.85	− 0 31.7	1.447	1.758	34.3	18.6	90 E	44	61*
11 17	21 14.10	− 1 20.3	1.561	1.786	33.5	18.7	86 E	44	58*
11 27	21 37.38	− 1 44.8	1.680	1.816	32.5	18.9	81 E	43	55*
12 7	22 0.49	− 1 47.7	1.805	1.847	31.3	19.1	77 E	43	50*
12 17	22 23.31	− 1 32.0	1.934	1.879	29.9	19.2	72 E	43*	46*
12 27	22 45.79	− 1 0.5	2.064	1.913	28.3	19.3	67 E	43*	41*
1 6	23 7.87	− 0 16.2	2.196	1.947	26.6	19.5	62 E	43*	36*
1 16	23 29.56	+ 0 38.2	2.327	1.981	24.8	19.6	58 E	41*	32*
162117 1998 SD_{15}									
12 23	14 33.36	−29 15.8	0.889	0.749	73.2	20.7	47 W	13*	39*
12 28	15 7.18	−28 5.3	0.908	0.719	73.4	20.6	44 W	13*	37*
1 2	15 40.91	−26 30.8	0.932	0.690	72.9	20.6	42 W	14*	34*
1 7	16 14.24	−24 36.8	0.964	0.664	71.6	20.5	40 W	15*	31*
1 12	16 46.98	−22 28.8	1.002	0.643	69.6	20.5	38 W	15*	29*
1 17	17 19.00	−20 12.5	1.046	0.626	66.7	20.4	36 W	16*	26*
1 22	17 50.21	−17 53.3	1.096	0.615	63.0	20.4	34 W	16*	24*
1 27	18 20.53	−15 35.8	1.150	0.611	58.8	20.3	32 W	16*	22*
2 1	18 49.90	−13 23.4	1.208	0.614	54.3	20.3	30 W	16*	19*
2 6	19 18.26	−11 18.0	1.267	0.623	49.7	20.3	29 W	16*	18*
2 11	19 45.56	− 9 20.7	1.327	0.638	45.1	20.4	27 W	16*	16*
2 16	20 11.77	− 7 31.6	1.386	0.658	40.9	20.4	26 W	15*	15*
2 21	20 36.88	− 5 50.4	1.444	0.683	37.0	20.5	25 W	14*	13*
3 2	21 23.87	− 2 49.1	1.554	0.741	30.6	20.6	22 W	12*	12*
3 12	22 6.89	− 0 11.6	1.653	0.805	26.0	20.8	21 W	11*	11*
3 22	22 46.56	+ 2 6.6	1.739	0.870	22.9	21.0	20 W	9*	11*
4 1	23 23.49	+ 4 8.6	1.813	0.934	21.0	21.2	20 W	8*	12*
4 11	23 58.24	+ 5 56.2	1.872	0.993	20.3	21.4	20 W	6*	13*
20187 Janapittichová									
12 23	14 35.12	−33 44.5	3.550	2.955	13.9	19.3	46 W	9*	40*
1 2	14 49.89	−35 7.8	3.439	2.944	15.3	19.3	52 W	9*	46*
1 12	15 4.22	−36 28.5	3.318	2.933	16.7	19.2	59 W	8*	53*
1 22	15 17.96	−37 46.7	3.188	2.920	17.9	19.2	65 W	7*	59*
2 1	15 30.86	−39 2.3	3.050	2.906	18.8	19.1	72 W	6	65*
2 11	15 42.66	−40 15.2	2.906	2.892	19.6	19.0	79 W	5	70*
2 21	15 53.07	−41 25.5	2.758	2.876	20.1	18.9	87 W	4	74*
2 26	15 57.63	−41 59.6	2.684	2.868	20.2	18.8	90 W	3	74*
3 2	16 1.69	−42 32.9	2.610	2.860	20.2	18.8	94 W	2	73
3 7	16 5.19	−43 5.3	2.536	2.851	20.2	18.7	98 W	2	73
3 12	16 8.10	−43 36.6	2.462	2.842	20.0	18.6	102 W	1	72
3 17	16 10.34	−44 6.8	2.390	2.833	19.7	18.5	106 W	1	72
3 22	16 11.85	−44 35.6	2.319	2.824	19.3	18.5	110 W	—	71
3 27	16 12.58	−45 2.5	2.250	2.815	18.8	18.4	114 W	—	71
4 1	16 12.47	−45 27.1	2.184	2.805	18.2	18.3	119 W	—	71
4 6	16 11.49	−45 48.9	2.120	2.795	17.5	18.2	123 W	—	70

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
20187 Janapittichová *(continuation)*									
4 11	16 9.60	−46 7.3	2.060	2.785	16.6	18.1	127 W	—	70
4 16	16 6.81	−46 21.4	2.003	2.775	15.6	18.0	132 W	—	70
4 21	16 3.12	−46 30.5	1.950	2.764	14.6	17.9	136 W	—	69
4 26	15 58.59	−46 33.7	1.902	2.753	13.5	17.8	140 W	—	69
5 1	15 53.30	−46 30.1	1.859	2.742	12.3	17.7	144 W	—	69
5 6	15 47.40	−46 19.1	1.822	2.731	11.3	17.6	148 W	—	70
5 11	15 41.04	−46 0.1	1.791	2.720	10.3	17.5	151 W	—	70
5 16	15 34.42	−45 32.8	1.765	2.708	9.6	17.4	154 W	—	70
5 21	15 27.73	−44 57.4	1.746	2.696	9.2	17.4	155 E	—	71
5 26	15 21.19	−44 14.2	1.734	2.684	9.3	17.4	155 E	1	72
5 31	15 15.02	−43 24.1	1.728	2.672	9.9	17.4	153 E	2	73
6 5	15 9.38	−42 28.2	1.728	2.660	10.8	17.4	151 E	3	74
6 10	15 4.42	−41 28.0	1.735	2.647	11.9	17.4	147 E	4	75
6 15	15 0.23	−40 24.7	1.747	2.634	13.3	17.5	143 E	5	76
6 20	14 56.90	−39 19.9	1.765	2.621	14.7	17.5	139 E	6	77
6 25	14 54.44	−38 14.9	1.789	2.608	16.0	17.6	135 E	7	78
6 30	14 52.89	−37 11.0	1.817	2.594	17.4	17.7	130 E	8*	79
7 5	14 52.21	−36 9.3	1.849	2.581	18.6	17.7	126 E	9*	80
7 10	14 52.38	−35 10.3	1.885	2.567	19.7	17.8	121 E	9*	81
7 15	14 53.36	−34 14.8	1.925	2.553	20.8	17.9	117 E	10*	82
7 20	14 55.09	−33 23.1	1.967	2.538	21.7	17.9	113 E	10*	83
7 30	15 0.68	−31 51.7	2.057	2.510	23.1	18.1	104 E	10*	84
8 9	15 8.75	−30 36.3	2.152	2.480	24.0	18.2	96 E	10*	85*
8 19	15 18.97	−29 35.2	2.250	2.450	24.4	18.2	89 E	10*	81*
8 29	15 31.05	−28 46.3	2.348	2.419	24.4	18.3	82 E	10*	75*
9 8	15 44.75	−28 6.7	2.442	2.387	24.0	18.4	75 E	10*	68*
9 18	15 59.86	−27 33.7	2.533	2.355	23.4	18.4	68 E	10*	62*
9 28	16 16.23	−27 4.7	2.617	2.323	22.4	18.4	62 E	10*	56*
10 8	16 33.70	−26 36.9	2.694	2.290	21.2	18.4	56 E	10*	50*
10 18	16 52.15	−26 7.9	2.763	2.257	19.8	18.4	50 E	11*	44*
10 28	17 11.48	−25 35.4	2.822	2.223	18.2	18.3	44 E	11*	38*
11 7	17 31.54	−24 57.4	2.871	2.189	16.5	18.3	39 E	10*	32*
11 17	17 52.26	−24 12.1	2.911	2.155	14.6	18.2	33 E	10*	26*
11 27	18 13.51	−23 17.7	2.939	2.122	12.7	18.1	28 E	10*	20*
12 7	18 35.19	−22 13.0	2.958	2.088	10.7	18.0	23 E	9*	14*
12 17	18 57.21	−20 56.7	2.966	2.054	8.6	17.9	18 E	7*	9*
12 27	19 19.47	−19 27.9	2.963	2.021	6.6	17.8	14 E	5*	4*
1 6	19 41.89	−17 46.0	2.952	1.988	4.6	17.6	9 E	3*	—
1 16	20 4.41	−15 50.6	2.931	1.955	3.0	17.5	6 E	—	—
418198 2008 CN_{70}									
12 23	14 36.17	−13 10.8	0.988	0.830	64.9	20.9	50 W	28*	34*
12 28	15 7.72	−13 23.6	0.983	0.793	66.2	20.8	48 W	27*	32*
1 2	15 40.50	−13 27.1	0.987	0.755	67.2	20.7	45 W	26*	30*
1 7	16 14.19	−13 21.7	1.000	0.717	67.6	20.7	42 W	25*	28*
1 12	16 48.45	−13 8.8	1.022	0.679	67.1	20.6	39 W	24*	25*
1 17	17 22.95	−12 50.1	1.055	0.642	65.7	20.5	37 W	22*	23*
1 22	17 57.44	−12 27.9	1.096	0.608	63.1	20.4	33 W	20*	20*
1 27	18 31.74	−12 4.0	1.146	0.578	59.2	20.2	30 W	18*	18*
2 1	19 5.74	−11 39.5	1.202	0.553	54.0	20.1	27 W	16*	15*
2 6	19 39.36	−11 14.9	1.263	0.536	47.8	20.0	24 W	13*	13*
2 11	20 12.48	−10 49.3	1.325	0.529	40.8	19.8	20 W	10*	11*
2 21	21 16.58	− 9 48.5	1.444	0.543	26.5	19.7	14 W	5*	6*
3 2	22 16.51	− 8 26.2	1.550	0.591	15.0	19.6	9 W	—	2*
3 12	23 11.37	− 6 40.3	1.641	0.659	8.4	19.7	6 W	—	—
3 17	23 36.90	− 5 40.4	1.682	0.696	7.2	19.9	5 W	—	—
3 22	0 1.25	− 4 37.1	1.721	0.735	7.3	20.0	5 W	—	—
3 27	0 24.53	− 3 31.6	1.757	0.773	7.9	20.2	6 E	—	—
4 1	0 46.81	− 2 25.0	1.792	0.810	8.7	20.4	7 E	—	—
4 6	1 8.21	− 1 18.1	1.826	0.846	9.5	20.6	8 E	—	—
4 11	1 28.81	− 0 11.8	1.858	0.881	10.1	20.7	9 E	—	—
4 16	1 48.72	+ 0 53.5	1.888	0.914	10.6	20.9	10 E	—	1*
4 21	2 8.01	+ 1 57.0	1.917	0.946	11.0	21.0	10 E	—	1*
4 26	2 26.76	+ 2 58.4	1.944	0.975	11.3	21.1	11 E	—	1*
5 1	2 45.03	+ 3 57.2	1.970	1.003	11.5	21.2	11 E	—	1*
5 6	3 2.88	+ 4 53.0	1.994	1.028	11.7	21.3	12 E	—	1*
5 11	3 20.37	+ 5 45.8	2.017	1.052	11.8	21.3	12 E	—	1*
5 16	3 37.54	+ 6 35.2	2.037	1.073	11.8	21.4	13 E	—	1*
5 21	3 54.44	+ 7 21.1	2.056	1.093	11.9	21.5	13 E	—	—
154269 2002 SM									
12 23	14 36.39	−12 29.2	1.430	1.096	43.4	20.5	50 W	29*	34*
12 28	14 57.52	−15 4.9	1.408	1.070	44.2	20.4	49 W	27*	35*
1 2	15 19.55	−17 36.3	1.390	1.046	44.9	20.3	49 W	24*	36*
1 7	15 42.51	−20 0.6	1.378	1.024	45.4	20.3	48 W	21*	37*
1 12	16 6.38	−22 15.0	1.371	1.005	45.8	20.2	47 W	19*	38*
1 17	16 31.11	−24 16.7	1.368	0.989	45.9	20.2	46 W	17*	38*
1 22	16 56.58	−26 2.9	1.370	0.977	45.9	20.2	45 W	14*	38*
1 27	17 22.63	−27 31.4	1.377	0.968	45.7	20.2	45 W	12*	38*
2 1	17 49.03	−28 40.5	1.387	0.963	45.3	20.2	44 W	10*	38*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
154269 2002 *SM* *(continuation)*									
2 6	18 15.52	−29 29.2	1.401	0.962	44.7	20.2	43 W	8*	37*
2 11	18 41.83	−29 57.4	1.418	0.964	44.0	20.2	43 W	6*	37*
2 16	19 7.70	−30 5.6	1.438	0.971	43.2	20.2	42 W	5*	36*
2 21	19 32.87	−29 55.2	1.459	0.981	42.4	20.2	42 W	4*	36*
2 26	19 57.15	−29 28.0	1.482	0.995	41.5	20.3	42 W	3*	35*
3 2	20 20.38	−28 46.1	1.507	1.012	40.7	20.3	42 W	2*	35*
3 7	20 42.47	−27 51.9	1.531	1.031	39.9	20.4	42 W	1*	35*
3 12	21 3.39	−26 47.7	1.556	1.054	39.1	20.4	42 W	1*	35*
3 17	21 23.14	−25 35.5	1.581	1.079	38.4	20.5	42 W	—	35*
3 22	21 41.76	−24 17.4	1.604	1.106	37.8	20.6	43 W	—	36*
3 27	21 59.29	−22 55.1	1.627	1.135	37.2	20.6	44 W	—	36*
4 1	22 15.78	−21 30.0	1.648	1.165	36.8	20.7	44 W	—	37*
4 6	22 31.32	−20 3.5	1.668	1.197	36.4	20.8	45 W	—	38*
4 11	22 45.97	−18 36.4	1.686	1.229	36.1	20.9	46 W	1*	39*
4 16	22 59.81	−17 9.7	1.701	1.262	35.9	20.9	47 W	1*	41*
4 21	23 12.89	−15 44.0	1.714	1.296	35.7	21.0	49 W	2*	42*
4 26	23 25.27	−14 19.8	1.725	1.331	35.6	21.1	50 W	3*	44*
5 1	23 36.99	−12 57.7	1.733	1.365	35.5	21.1	52 W	4*	46*
5 6	23 48.09	−11 37.8	1.739	1.400	35.5	21.2	54 W	5*	48*
5 11	23 58.62	−10 20.5	1.742	1.435	35.4	21.2	55 W	6*	49*
5 16	0 8.60	− 9 6.0	1.742	1.470	35.4	21.3	57 W	8*	51*
5 21	0 18.06	− 7 54.4	1.739	1.505	35.4	21.3	60 W	9*	53*
5 26	0 27.00	− 6 45.9	1.733	1.540	35.4	21.4	62 W	11*	55*
5 31	0 35.43	− 5 40.5	1.724	1.574	35.4	21.4	64 W	13*	57*
6 5	0 43.37	− 4 38.4	1.713	1.609	35.4	21.5	67 W	15*	59*
6 10	0 50.82	− 3 39.5	1.699	1.642	35.3	21.5	69 W	18*	61*
6 15	0 57.75	− 2 44.0	1.682	1.676	35.2	21.5	72 W	20*	62*
58175 1990 SE_{15}									
12 23	14 36.66	−17 54.3	2.915	2.375	18.0	20.9	48 W	24*	36*
1 2	14 54.41	−19 6.3	2.786	2.348	19.8	20.9	54 W	24*	42*
1 12	15 12.15	−20 11.0	2.651	2.319	21.5	20.8	60 W	24*	49*
1 22	15 29.79	−21 7.7	2.510	2.290	23.1	20.7	66 W	24*	56*
2 1	15 47.20	−21 55.6	2.365	2.261	24.5	20.6	72 W	23*	63*
2 11	16 4.19	−22 34.2	2.217	2.231	25.6	20.4	78 W	22*	70*
2 21	16 20.60	−23 3.0	2.067	2.201	26.6	20.3	84 W	22	77*
3 2	16 36.15	−23 21.8	1.918	2.171	27.2	20.1	91 W	22	84*
3 12	16 50.57	−23 30.3	1.770	2.140	27.4	19.9	97 W	21	88
3 22	17 3.53	−23 28.6	1.626	2.109	27.2	19.7	104 W	22	87
4 1	17 14.61	−23 16.7	1.488	2.078	26.5	19.4	112 W	22	87
4 11	17 23.38	−22 54.9	1.356	2.047	25.2	19.2	120 W	22	87
4 21	17 29.38	−22 23.2	1.235	2.017	23.1	18.9	128 W	23	86
5 1	17 32.11	−21 42.0	1.125	1.986	20.1	18.5	137 W	23	86
5 11	17 31.29	−20 51.3	1.030	1.956	16.3	18.2	147 W	24	85
5 21	17 26.85	−19 52.0	0.952	1.927	11.5	17.8	158 W	25	84
5 26	17 23.40	−19 19.6	0.920	1.912	8.8	17.6	163 W	26	83
5 31	17 19.27	−18 45.9	0.894	1.898	6.1	17.4	169 W	26	83
6 5	17 14.63	−18 11.4	0.872	1.884	3.6	17.2	173 W	27	82
6 10	17 9.69	−17 36.9	0.857	1.870	3.0	17.1	175 E	27	82
6 15	17 4.64	−17 3.1	0.847	1.856	5.1	17.2	171 E	28	81
6 20	16 59.73	−16 31.0	0.842	1.843	8.0	17.3	165 E	28	81
6 25	16 55.18	−16 1.4	0.842	1.830	11.1	17.4	160 E	29	80
6 30	16 51.23	−15 35.2	0.848	1.817	14.2	17.5	154 E	29	80
7 5	16 48.04	−15 13.0	0.858	1.805	17.1	17.7	149 E	30	79
7 10	16 45.72	−14 55.2	0.872	1.793	19.8	17.8	143 E	30	79
7 20	16 44.04	−14 33.2	0.910	1.770	24.6	18.0	134 E	30	79
7 30	16 46.55	−14 28.7	0.959	1.749	28.5	18.2	125 E	31	78
8 9	16 53.10	−14 38.4	1.017	1.730	31.5	18.4	117 E	30*	79
8 19	17 3.33	−14 57.8	1.081	1.713	33.8	18.5	110 E	30*	79
8 29	17 16.84	−15 22.3	1.149	1.698	35.3	18.7	104 E	29*	79
9 8	17 33.17	−15 47.1	1.220	1.685	36.3	18.8	98 E	29*	80
9 18	17 51.91	−16 8.0	1.293	1.675	36.8	19.0	93 E	28*	80*
9 28	18 12.68	−16 21.4	1.368	1.668	36.9	19.1	88 E	28*	77*
10 8	18 35.08	−16 24.0	1.445	1.663	36.7	19.2	84 E	28*	73*
10 18	18 58.78	−16 13.5	1.524	1.661	36.1	19.3	79 E	28*	69*
10 28	19 23.47	−15 48.3	1.604	1.662	35.4	19.4	76 E	29*	65*
11 7	19 48.81	−15 7.3	1.686	1.666	34.4	19.5	72 E	30*	60*
11 17	20 14.55	−14 10.5	1.770	1.672	33.2	19.5	68 E	30*	55*
11 27	20 40.46	−12 58.3	1.855	1.682	31.9	19.6	64 E	31*	49*
12 7	21 6.33	−11 31.8	1.942	1.693	30.5	19.7	61 E	32*	44*
12 17	21 32.01	− 9 52.5	2.030	1.707	28.9	19.8	57 E	33*	39*
12 27	21 57.42	− 8 2.3	2.119	1.724	27.3	19.8	53 E	34*	34*
1 6	22 22.46	− 6 3.3	2.208	1.742	25.5	19.9	50 E	34*	29*
1 16	22 47.14	− 3 57.5	2.297	1.763	23.7	20.0	46 E	33*	25*
58683 1998 AJ_{10}									
12 23	14 36.94	−11 28.9	3.296	2.772	15.8	21.0	50 W	30*	33*
1 2	14 50.47	−12 25.7	3.166	2.756	17.4	20.9	57 W	31*	41*
1 12	15 3.51	−13 15.8	3.027	2.738	18.8	20.9	64 W	31*	49*
1 22	15 15.92	−13 58.7	2.879	2.721	20.0	20.8	71 W	31*	57*
2 1	15 27.48	−14 34.2	2.726	2.702	20.9	20.7	78 W	30	65*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
58683 1998 AJ_{10} *(continuation)*									
2 11	15 37.97	−15 1.9	2.569	2.682	21.5	20.5	86 W	30	72*
2 21	15 47.13	−15 22.0	2.410	2.661	21.8	20.4	94 W	30	78*
3 2	15 54.65	−15 34.2	2.253	2.639	21.6	20.2	102 W	29	80
3 12	16 0.20	−15 38.7	2.099	2.616	20.9	20.0	110 W	29	80
3 22	16 3.42	−15 35.6	1.953	2.593	19.5	19.8	120 W	29	80
4 1	16 3.97	−15 25.3	1.817	2.568	17.5	19.6	129 W	30	79
4 11	16 1.62	−15 8.1	1.696	2.543	14.8	19.3	140 W	30	79
4 21	15 56.29	−14 44.9	1.593	2.517	11.3	19.0	151 W	30	79
5 1	15 48.23	−14 16.9	1.512	2.490	7.2	18.7	162 W	31	78
5 11	15 38.10	−13 46.8	1.457	2.462	3.0	18.4	173 W	31	78
5 16	15 32.58	−13 31.9	1.440	2.448	2.3	18.3	174 W	31	78
5 21	15 26.95	−13 17.8	1.429	2.434	3.8	18.4	171 E	32	77
5 26	15 21.38	−13 5.0	1.425	2.419	6.0	18.5	165 E	32	77
5 31	15 16.04	−12 54.2	1.427	2.404	8.4	18.6	160 E	32	77
6 10	15 6.64	−12 40.1	1.450	2.374	13.0	18.7	148 E	32	77
6 20	14 59.67	−12 38.3	1.494	2.343	17.2	18.9	137 E	32	77
6 30	14 55.69	−12 50.4	1.555	2.312	20.6	19.1	127 E	32*	77
7 10	14 54.88	−13 16.1	1.628	2.280	23.4	19.3	117 E	31*	77
7 20	14 57.17	−13 54.1	1.709	2.248	25.4	19.4	108 E	29*	78
7 30	15 2.37	−14 42.6	1.795	2.215	26.8	19.5	100 E	27*	79
8 9	15 10.21	−15 39.3	1.882	2.181	27.7	19.6	93 E	24*	80*
8 19	15 20.45	−16 41.7	1.968	2.148	28.0	19.7	86 E	22*	78*
8 29	15 32.87	−17 47.6	2.052	2.114	28.0	19.7	79 E	20*	73*
9 8	15 47.28	−18 54.7	2.132	2.080	27.6	19.8	73 E	19*	67*
9 18	16 3.53	−20 0.7	2.207	2.046	27.0	19.8	68 E	18*	61*
9 28	16 21.49	−21 3.3	2.276	2.012	26.1	19.8	62 E	16*	56*
10 8	16 41.04	−22 0.2	2.339	1.978	25.0	19.8	57 E	15*	51*
10 18	17 2.08	−22 49.2	2.395	1.945	23.8	19.8	52 E	15*	46*
10 28	17 24.50	−23 28.2	2.444	1.912	22.4	19.7	47 E	14*	41*
11 7	17 48.17	−23 55.0	2.487	1.880	20.9	19.7	43 E	13*	36*
11 17	18 12.96	−24 7.6	2.522	1.849	19.3	19.6	38 E	13*	31*
11 27	18 38.70	−24 4.3	2.552	1.818	17.6	19.6	34 E	12*	26*
12 7	19 5.22	−23 43.9	2.575	1.789	15.9	19.5	30 E	11*	21*
12 17	19 32.34	−23 5.2	2.593	1.762	14.2	19.4	26 E	10*	17*
12 27	19 59.87	−22 7.9	2.606	1.736	12.4	19.3	22 E	9*	13*
1 6	20 27.62	−20 52.0	2.615	1.712	10.6	19.2	19 E	7*	10*
1 16	20 55.45	−19 18.2	2.620	1.690	8.8	19.1	15 E	5*	7*
152748 1998 YF_{27}									
12 23	14 37.02	+20 43.8	1.630	1.535	36.1	20.7	67 W	59*	17*
1 2	15 10.85	+21 36.7	1.598	1.546	36.4	20.6	69 W	61*	18*
1 12	15 43.63	+22 33.9	1.574	1.559	36.6	20.6	71 W	63*	20*
1 22	16 14.89	+23 35.7	1.558	1.574	36.6	20.6	73 W	64*	22*
2 1	16 44.17	+24 42.2	1.546	1.591	36.6	20.6	74 W	65*	24*
2 11	17 11.12	+25 53.2	1.537	1.609	36.5	20.6	76 W	66*	26*
2 21	17 35.50	+27 8.8	1.527	1.629	36.3	20.7	77 W	67*	28*
3 2	17 57.08	+28 28.7	1.514	1.650	36.2	20.7	79 W	68*	30*
3 12	18 15.68	+29 51.8	1.498	1.672	36.0	20.7	82 W	70*	31*
3 22	18 31.14	+31 17.0	1.475	1.695	35.8	20.7	84 W	72*	31*
4 1	18 43.18	+32 42.4	1.446	1.719	35.5	20.6	87 W	74*	31*
4 11	18 51.52	+34 4.4	1.411	1.743	35.1	20.6	91 W	76*	30
4 21	18 55.83	+35 18.8	1.369	1.768	34.5	20.5	95 W	79*	29
5 1	18 55.68	+36 18.3	1.323	1.793	33.6	20.5	100 W	81*	28
5 6	18 53.84	+36 39.4	1.299	1.806	33.1	20.4	102 W	82	27
5 11	18 50.81	+36 52.9	1.275	1.818	32.5	20.4	105 W	82	27
5 16	18 46.57	+36 57.0	1.251	1.831	31.8	20.4	108 W	82	27
5 21	18 41.18	+36 49.9	1.228	1.843	31.0	20.3	110 W	82	27
5 26	18 34.70	+36 29.4	1.205	1.856	30.1	20.3	113 W	81	28
5 31	18 27.30	+35 53.6	1.185	1.868	29.2	20.2	116 W	81	28
6 5	18 19.15	+35 0.9	1.167	1.880	28.2	20.2	119 W	80	29
6 10	18 10.48	+33 49.9	1.152	1.893	27.2	20.1	122 W	79	30
6 15	18 1.56	+32 19.9	1.141	1.905	26.2	20.1	124 W	77	32
6 20	17 52.66	+30 31.0	1.134	1.917	25.4	20.1	126 E	76	33
6 25	17 44.05	+28 24.1	1.132	1.929	24.7	20.0	128 E	73	36
6 30	17 36.00	+26 0.9	1.136	1.941	24.1	20.0	129 E	71	38
7 5	17 28.70	+23 24.2	1.145	1.953	23.9	20.1	129 E	68	41
7 10	17 22.28	+20 37.2	1.161	1.964	23.8	20.1	129 E	66	43
7 15	17 16.85	+17 43.4	1.183	1.976	24.0	20.2	128 E	63	46
7 20	17 12.46	+14 46.0	1.211	1.987	24.4	20.2	126 E	60	49
7 25	17 9.13	+11 48.4	1.245	1.998	25.0	20.3	124 E	57	52
7 30	17 6.84	+ 8 53.2	1.285	2.009	25.6	20.4	121 E	54	55
8 4	17 5.55	+ 6 2.8	1.331	2.020	26.3	20.5	118 E	51	58
8 9	17 5.19	+ 3 18.8	1.381	2.030	26.9	20.6	115 E	48	61
8 14	17 5.72	+ 0 42.4	1.436	2.041	27.5	20.8	112 E	46*	63
8 19	17 7.08	− 1 45.9	1.495	2.051	27.9	20.9	108 E	43*	66
8 24	17 9.21	− 4 5.7	1.557	2.061	28.3	21.0	105 E	41*	68
8 29	17 12.05	− 6 16.8	1.622	2.071	28.6	21.1	101 E	38*	70
9 3	17 15.53	− 8 19.4	1.690	2.080	28.7	21.2	98 E	36*	72
9 8	17 19.61	−10 13.7	1.759	2.090	28.7	21.3	94 E	34*	74*
9 13	17 24.25	−12 0.1	1.830	2.099	28.6	21.4	91 E	32*	75*
9 18	17 29.39	−13 39.0	1.902	2.108	28.4	21.5	87 E	30*	75*